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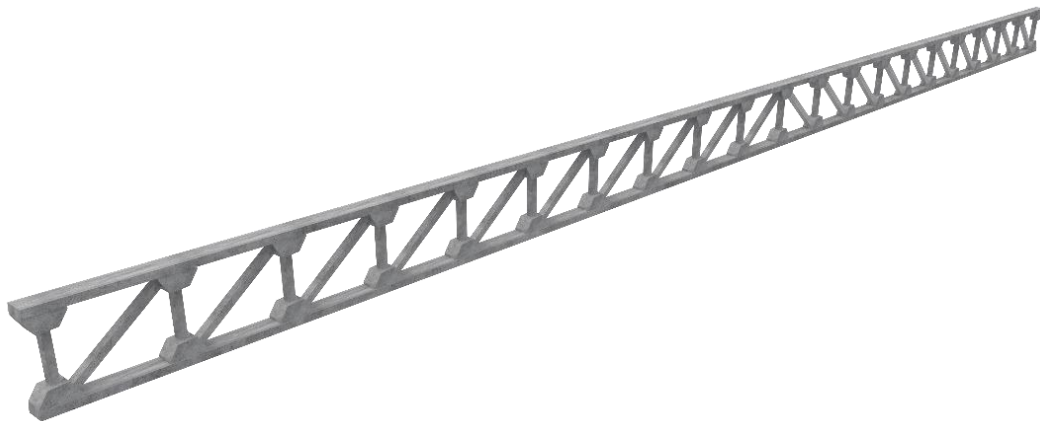


DEPARTAMENTO DE
INGENIERÍA DE LA CONSTRUCCIÓN
Y DE PROYECTOS DE INGENIERÍA CIVIL

TRABAJO DE FIN DE MÁSTER

MEMORIA

DISEÑO ÓPTIMO DE UNA CERCHA DE HORMIGÓN DE MUY ALTA RESISTENCIA (HMAR) PARA LA CUBIERTA DE LA PISCINA MUNICIPAL DE ALMUSSAFES (VALENCIA)



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Julio 2019

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Capítulo 1

1. GENERALIDADES

1.1. INTRODUCCIÓN

En el presente trabajo de fin de máster se pretende dar una alternativa con hormigón de muy alta resistencia (HMAR) o también llamado en inglés Ultra-High-Performance-Concrete (UHPC), u hormigón de muy alta resistencia reforzado con fibras (HMARRF), a la cercha de un pabellón deportivo, para conocer cuáles son las dimensiones y secciones óptimas con este material.

Para realizar el diseño óptimo de la cercha se hace una revisión bibliográfica de las investigaciones y construcciones realizadas con HMAR. Una vez que se indaga en el estado del arte, se procede a analizar cuál es la forma de cercha más adecuada para trabajar con este tipo de material.

Mediante el programa de cálculo denominado “Matlab”, se realiza el procesamiento de datos de distintas opciones de cerchas donde se varía su altura y el número de montantes, tomando en cuenta que brinden las prestaciones necesarias para resistir las solicitaciones a las cuales va a estar sometida la estructura durante su vida útil; y a su vez, permitan reducir el volumen de hormigón de alta resistencia.

Por último, se procede a realizar la valoración económica de la cercha con HMAR para tener un valor referencial que implica el uso de este material en este tipo de estructuras.

1.2. OBJETIVOS

1.2.1. General

Usar el hormigón de alta resistencia (HMAR) para diseñar la cercha de la cubierta del pabellón de la piscina ubicado en Almussafes (Valencia) y, obtener su valoración económica.

1.2.2. Específico

- Plantear alternativas de tipologías de cerchas para escoger la que mejor se adapte al hormigón de alta resistencia (HMAR).
- Desarrollar cálculo y diseño óptimo de un tipo de cercha para la cubierta con hormigón de alta resistencia
- Realizar la valoración económica de la cercha con HMAR.

1.3. JUSTIFICACIÓN

La construcción es una ciencia que siempre ha evolucionado con el avance de la sociedad, cada día es imprescindible el desarrollo de nuevas tecnologías, que permitan mejorar las condiciones de los elementos en el mundo de la construcción. Es indudable que el hormigón ha sido un elemento primordial en el desarrollo de infraestructuras desde sus inicios, por lo tanto, el desarrollo de materiales de altas prestaciones para el refuerzo o para la construcción de nuevas infraestructuras es uno de los objetivos de gran interés actualmente. Ya no solo se busca la seguridad en la construcción, sino también temas como la trabajabilidad, durabilidad, estética, son conceptos que influyen en gran medida a una infraestructura. Además, también la posibilidad de soportar ambientes hostiles y mantener la integridad de la estructura y la disminución del impacto económico que tienen los elementos.

Cuando se elaboran hormigones de alta y ultra alta resistencia, la resistencia a tracción también asciende, y como resultado el material presenta una respuesta mucho mejor ante sollicitaciones externas. La incorporación de fibras es una solución ideal ya que mejora la ductilidad, la capacidad de absorción de energía y las propiedades dinámicas del hormigón.

En efecto, es común la incorporación de fibras en los hormigones de alta resistencia para minimizar su mayor fragilidad relativa. Sin embargo, el HMAR se especializa por presentar un período de endurecimiento mayor y una fisuración múltiple bajo cargas de tracción; por esas razones, el HMAR es especialmente eficiente para garantizar un mejor desempeño de los elementos estructurales frente a cargas gravitatorias, dinámicas u otras acciones medioambientales extremas.



El HMAR es un material que tiene presencia en la construcción en muchos países desde hace más de dos décadas, sin embargo, su uso aún no es masivo debido a los elevados costos que implica fabricar hormigones de este tipo. Los altos costos de construcción se compensan con las formas constructivas innovadoras que se pueden conseguir, reducción de peso, mayor durabilidad, menor mantenimiento, procesos de fabricación industrializado.

A continuación, para tener una idea de los elementos constitutivos que intervienen en la mezcla de este tipo de hormigones, se presenta la materia prima que conforma un HMAR reforzado con fibras:

- Cemento en elevadas cantidades.
 - Adición activa.
 - Fibras metálicas o plásticas de alto límite de fluencia.
 - Aditivos, especialmente súper plastificantes de tercera generación para mejorar la trabajabilidad de la mezcla.
 - Áridos silíceos de granulometría pequeña (menor a dos milímetros)
 - Se puede o no agregar a la mezcla filler silíceo.
 - Agua
- (Cordero, 2015)

Para fabricar un hormigón de ultra altas prestaciones (UHPC) es fundamental tratar de perfeccionar las propiedades micro y macro de la mezcla para conseguir un producto con homogeneidad mecánica, la densidad máxima del relleno de las partículas y la menor cantidad posible de defectos. En la selección de los materiales no sólo se trata de alcanzar la dosificación relativa de distintos tamaños de agregados, sino encontrar los materiales con las mejores características físicas y químicas. En el mercado actual se encuentran algunas mezclas de marcas comerciales, las cuales se muestran en la Tabla 1 (Azmeem & Shafiq, 2018).

Tabla 1. Componentes de UHPC de marcas comerciales (Azme & Shafiq, 2018).

Materials (kg/m ³)	BCV [®]	BSI [®]	Cemtec [®]		
Portland cement	2115	1114	1050	712	911
Fine sand	(Premix)	1072	514	1020	911
SF		169	268	231	225
Ground quartz		-	-	211	-
Accelerator	-	-	-	30	-
Steel fibers	156	234	858	156	173
SP	21.5	40	44	30.7	38
Water	159	211	180	109	200

1.4. METODOLOGÍA

Para obtener una mejor comprensión del tema el estudio se divide en 6 partes, los cuales son: los dos primeros tienen un enfoque investigativo y bibliográfico donde se enfoca la obtención de información de diferentes proyectos alrededor del mundo las connotaciones básicas del HMAR, mientras que la segunda parte predomina un enfoque exploratorio y experimental del proceso de diseño de la cercha, el análisis está dividido en los siguientes puntos principales:

Se realiza una indagación exhaustiva de las investigaciones realizadas sobre el hormigón de muy alta resistencia (HMAR) por distintos centros de estudios, y la aplicación práctica de éste material en las construcciones de distintos países. Se ha recopilado la información y analizado los puntos principales que son de mayor importancia para el presente estudio.

A continuación, se explica las bases teóricas de las propiedades y características mecánicas propias del HMAR, para establecer los enfoques que tendrá el trabajo.

Se explica las bases de cálculo y se detalla los parámetros esenciales que regirán el diseño del proyecto, consideraciones de cálculo como: normativa, consideraciones de cálculo, cargas, coeficientes de seguridad.

Posteriormente se realiza el diseño del pabellón deportivo. Se indica el procedimiento realizado para encontrar el diseño óptimo de la cercha como: análisis de distintos tipos de cerchas para determinar la que sea más factible para ser usada con el HMAR, se realiza

la modelización de la estructura, se calcula el diagrama de flujo general para encontrar el diseño óptimo. Y se escoge el diseño más eficiente.

Consecuentemente se realiza la valoración económica mediante el uso de costos referenciales, se estima el valor de la implementación de la cercha de HMAR, para demostrar la viabilidad que posee el uso de éste material en las construcciones de éste tipo.

Finalmente, se detalla las conclusiones más relevantes obtenidas durante el presente trabajo.

Capítulo 2

2. ESTADO DEL ARTE

2.1. INVESTIGACIONES DEL HMAR

Varios lugares del mundo se encuentran en constante investigación para mejorar las prestaciones y usos del HMAR, con el fin de que éste material se establezca en el mercado de la construcción como la opción principal, a continuación, se presentan algunas investigaciones realizadas por diferentes centros de estudios:

- *Instituto de Ciencia y Tecnología del Hormigón (ICITECH)*

En España el Instituto de Ciencia y Tecnología del Hormigón (ICITECH), con la premisa de construir una pasarela de 42.81m de luz que reemplace una pasarela preconcebida en acero; investiga la viabilidad del uso del hormigón de muy alto rendimiento para éste propósito, tomando en cuenta las siguientes propiedades del HMAR ante el hormigón convencional:

- a) Disminución de las secciones de hormigón y consiguiente reducción de peso de los elementos estructurales entre un 60-75%.
- b) Disminución de los equipos de elevación además de los ahorros en subestructuras.
- c) Eliminación de las armaduras de cortante y de las de mínimos geométricos, con un ahorro considerable en el proceso de elaboración de ferralla.
- d) Reducción de los recubrimientos mínimos y mayor esbeltez de los proyectos.
- e) Mayor explotación del pretensado y procesos de prefabricación industrializada.

(Serna, y otros, 2014)

La dosificación del HMAR tuvo una alta cantidad de cemento ($> 750 \text{ Kg/m}^3$) con una elevada proporción de adiciones de puzolanas. El máximo tamaño de árido fue de 1.6mm, empleando un 2,5% sobre la cantidad de material conglomerante de aditivo súper plastificante. La relación agua/conglomerante fue de 0.175, las mezclas se diseñaron con 78 Kg/m^3 de fibras lisas de 13mm de longitud y 0.16mm de diámetro y 78 Kg/m^3 de

fibras con gancho de 30mm de longitud y 0.375mm de diámetro, ambos tipos de fibras con una esbeltez de 80. Las fibras cortas controlan la multifisuración y las fibras largas aportan ductilidad al elemento. El HMAR obtuvo una resistencia característica de 135 MPa a 28 días sobre probetas cúbicas de 100 mm de lado curadas a 20°C en cámara húmeda (Serna, y otros, 2014).

Para el análisis estructural de la pasarela se usó el software SAP2000 donde se realiza un modelo 3D (Figura 1) con las acciones de cálculo y combinaciones de carga.

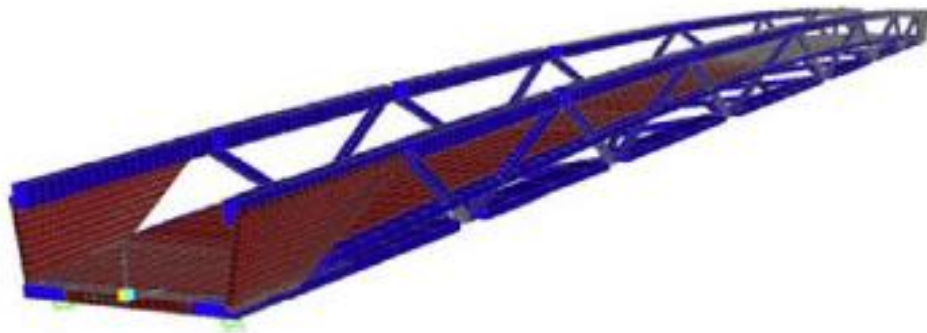


Figura 1. Modelo de cálculo de esfuerzos lineal implementado en SAP2000 (Serna, y otros, 2014)

Para avalar los resultados del análisis del comportamiento estructural de sus elementos se optó por fabricar un prototipo diseñado con la geometría, armados y sistema de fabricación similar a la pasarela. Éste consiste en una celosía Warren de 6.6m de longitud y un total de 6 diagonales de 0.12m de ancho con una inclinación constante como se aprecia en la Figura 2. Las diagonales en compresión tienen un canto de 0.08m sin ningún tipo de armado convencional. Las diagonales sometidas a esfuerzos de tracción poseen un canto de 0.12m reforzadas con 3 barras de 25mm. El cordón inferior de la celosía tiene 6 cordones Y1860S7. La construcción del prototipo se realizó en dos fases con el objeto de simular la junta de construcción de la pasarela. El prototipo se diseñó con los siguientes objetivos (Serna, y otros, 2014):

Garantizar la correcta distribución de fibras siguiendo los procedimientos de hormigonado que se emplearían posterior-mente en la ejecución de la pasarela.

Asegurar el comportamiento en servicio de las diagonales traccionadas.

- a) Comprobar el correcto funcionamiento de la transmisión de esfuerzos en los nudos.
- b) Comprobar el rasante producido en la junta de hormigonado del cordón inferior, al transferir el pretensado.
- c) Verificar la capacidad de las diagonales comprimidas.

(Serna, y otros, 2014)



Figura 2. Configuración de ensayo de prototipo (izquierda) y rotura de la diagonal comprimida (derecha) (Serna, y otros, 2014)

En las diagonales a tracción se midió una separación media entre fisuras de 18mm, sólo visibles al humedecer la superficie (Figura 3), esto estuvo acorde con la separación media de fisuras prevista en los cálculos (Serna, y otros, 2014).



Figura 3. Patrón de fisuración de una diagonal traccionada al 2.5 % de deformación media (Serna, y otros, 2014).

En conclusión, el uso del cambio de material de la pasarela sobre el “Barranco de las Ovejas” (Alicante) de acero a HMAR mejoró las condiciones de durabilidad en un ambiente marino agresivo, consiguiendo disminuir los costes de mantenimiento, aportar una elevada sostenibilidad gracias a sus excelentes características de durabilidad y vida útil, se obtuvo un diseño innovador con calidad estética. Su coste es económicamente viable en comparación con materiales convencionales (Serna, y otros, 2014).

- *Instituto del Concreto Estructural de la Universidad Tecnológica de Graz*

El Instituto del Concreto Estructural de la Universidad Tecnológica de Graz en Alemania, investiga la forma de obtener un mayor beneficio del concreto de ultra alto rendimiento (UHPC), el cual tiene resistencia de a la compresión entre 150 y 230 MPa. La Universidad planteó la fabricación de una cercha por elementos para posteriormente ser ensamblada como se indica en la Figura 4.

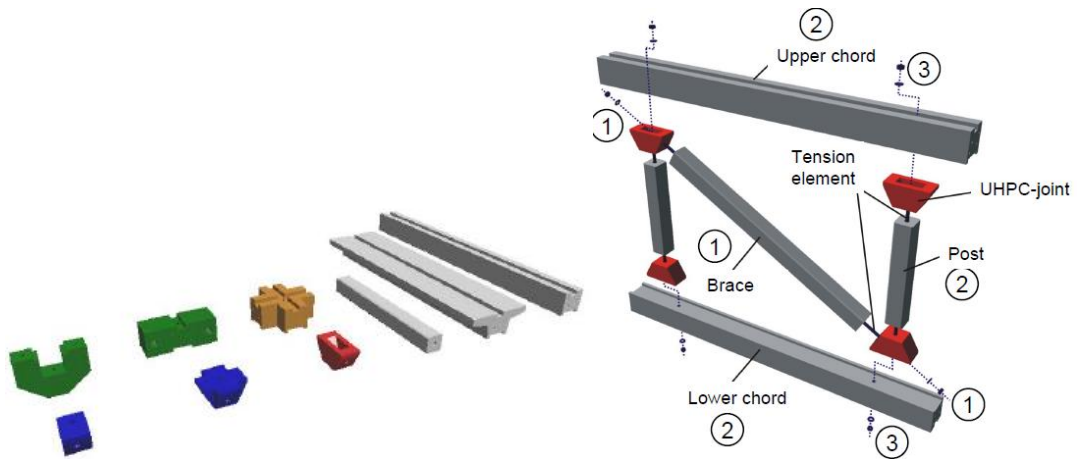


Figura 4. Elementos de la cercha de UHPC (izquierda) y despiece de la cercha de UHPC (derecha) (Nguyen)

Para la unión de los elementos se usó elementos de acero (Figura 5), con esto se fabricaron prototipos para comprobar su desempeño ante solicitaciones externas.

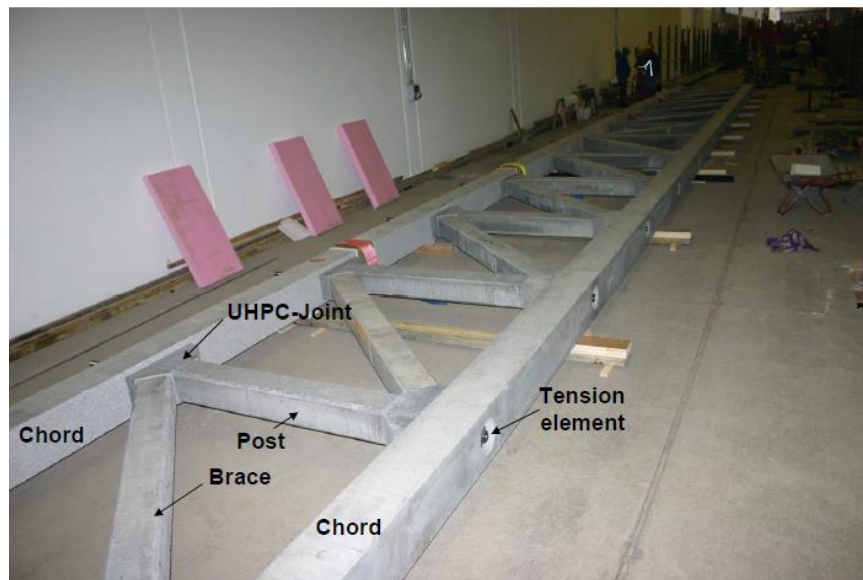


Figura 5. Sistema de modular de cercha hecho de UHPC (Nguyen).

Realizaron una simulación numérica mediante elementos finitos para analizar la falla de la unión ante los esfuerzos de tensión (Figura 6).

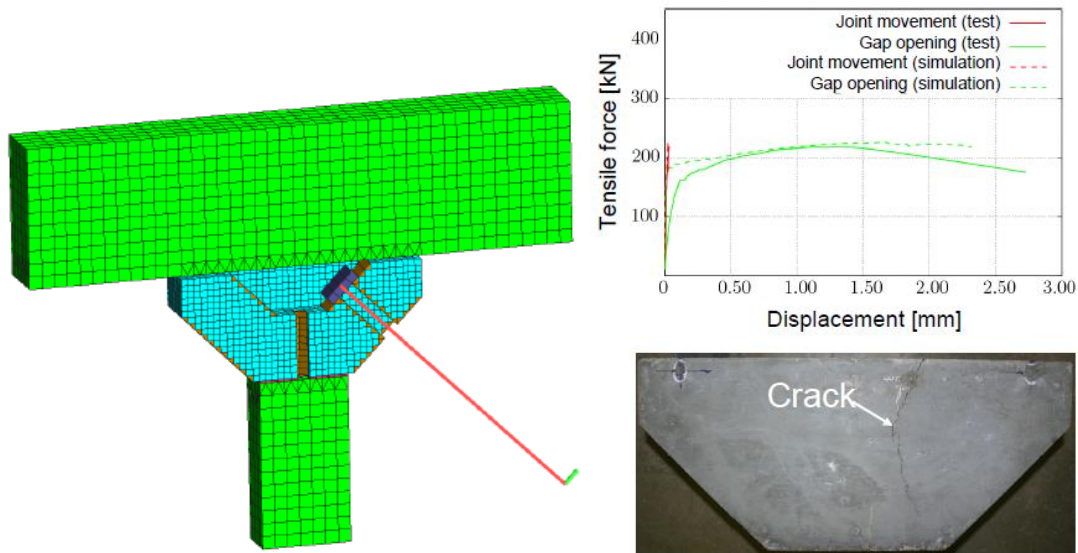


Figura 6. Simulación numérica y ensayo de la unión de UHPC (Nguyen)

Una vez ensamblada todo el prototipo de cercha de 24m de luz y 2.50m de altura, realizaron un ensayo en el laboratorio como se aprecia en la Figura 7.



Figura 7. Configuración del prototipo de prueba de UHPC en escala real (Nguyen)

De esta forma la Universidad de Graz investiga cómo implementar el concreto de ultra alto rendimiento para nuevos usos como pasarelas mixtas (acero y UHPC), escaleras, puentes, buscando proponer formas innovadoras con hormigón.

- *Trabajo de investigación denominado “Aplicación de hormigón de ultra alta resistencia con fibras de vidrio. Caracterización de hormigón de ultra alta resistencia con fibras de vidrio”*

(Cordero, 2015) en su trabajo de investigación denominado “Aplicación de hormigón de ultra alta resistencia con fibras de vidrio. Caracterización de hormigón de ultra alta resistencia con fibras de vidrio”, analiza las cualidades que puede aportar el añadir las fibras de vidrio al hormigón de ultra alta resistencia.



Figura 8. Fisura en muestra con fibras de vidrio de 36mm (Cordero, 2015)

En la Figura 8 se indica cuando aparece la primera fisura en la probeta donde las fibras de vidrio la intentan sellar brindándole ductilidad al elemento de hormigón de ultra alta resistencia.

Al culminar el trabajo (Cordero, 2015) concluye:

- a) Las fibras cortas de 6 y 12 mm aportan un aumento de resistencia a la carga de las muestras, pero no favorecen la ductilidad lo cual provoca un comportamiento frágil. Las fibras de 12, 18, 24 y 36 mm de longitud aumentan la resistencia a la carga y la ductilidad de los prototipos.
- b) Durante las mezclas de los distintos tipos de longitud de fibras, notaron que las fibras de mayor tamaño aportan mayor consistencia a la mezcla, mientras que las fibras de menor tamaño presentan una reducción de la consistencia de la mezcla.
- c) De los tres tipos de fibras que analizaron (fibras de acero, de vidrio y sintéticas), la que presentó un nivel muy superior en la resistencia mecánica y la ductilidad de los especímenes fueron las fibras de acero. En segundo lugar, quedaron las fibras de vidrio que aportaron una considerable mejoría a la resistencia a la carga y la ductilidad, pero ésta ductilidad se veía disminuida a lo largo del tiempo cuando

evaluaron las muestras a los 90 días. Las fibras sintéticas no aportaron ninguna mejoría considerable ni en resistencia a la carga ni en la ductilidad. Al usar fibras macro sintéticas consiguieron aumentar la ductilidad del elemento, sin embargo, en la resistencia a la carga no obtuvieron resultados positivos. Con las fibras micro sintéticas obtuvieron un aumento pequeño en la resistencia a la carga, pero no aportó ductilidad a la muestra.

2.2. CONSTRUCCIONES EN EL MUNDO CON HMAR

Alrededor del mundo existen algunas construcciones con HMAR en diferentes países como Canadá, Francia, Japón, Alemania, Austria, Corea del Sur, Suiza, Austria, Holanda, España. A continuación, se mencionan diferentes estructuras construidas con HMAR:

- La primera pasarela que tiene como material estructural el concreto de ultra alta prestaciones (UHPC) es la estructura para peatones y ciclistas de Sherbrooke en Canadá en el año de 1997 (Figura 9). La obra cuenta con una longitud de 60 metros, la losa está formada por deck y hormigón. La viga de la pasarela es tipo cercha, donde las diagonales son elementos de acero rellenos de UHPC, los cordones superiores e inferior son elementos de hormigón pretensado. La resistencia a la compresión del hormigón de los cordones de la cercha es de 200MPa (Beton, 2015).



Figura 9. Pasarela de Sherbrooke, Canadá (Peng, Jun, TingYu, & FaGuang, 2014)

- En Seúl, Corea se inaugura en el año 2002 una de las pasarelas peatonales más largas fabricado con HMAR y elementos pretensados denominado la “Pasarela de la Paz” (Figura 10), tiene una longitud de 120m.



Figura 10. Pasarela de la Paz Seúl, Corea. Fuente: Google Imágenes

Las vigas son prefabricadas y pretensadas, tienen la forma de doble T con un tablero de ancho de 4.30m como se observa en la Figura 11 (Beton, 2015).

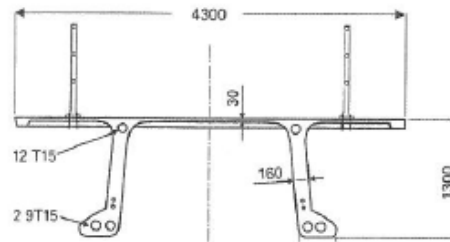


Figura 11. Sección transversal de la doble T de la pasarela de la Paz (Beton, 2015)

- La pasarela “Gärnerplatz” sobre el río Fulda, Kassel en Alemania se construye en el año 2007 (Figura 12), tiene seis vanos de 36 metros. La pasarela consta de una viga longitudinal de tres cordones como se observa en la Figura 13, los cordones superiores son fabricados con UHPC y las diagonales y los cordones inferiores son de acero. Esta viga principal se conecta mediante conectores que van del cordón superior a la losa de hormigón (Beton, 2015).



Figura 12. Pasarela Gärnerplatz después de la finalización (Fehling & Bunge, 2009)

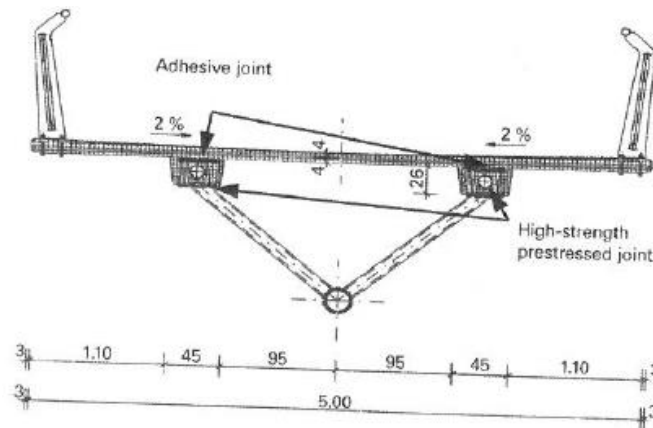


Figura 13. Sección transversal de la pasarela Gärnerplatz (Beton, 2015)

- En Francia en el año 2008 se construye la central de autobuses “RATP” (Figura 14) con 1.300 m² de paneles de 1,70m x 3,60m x 3cm de espesor, de pared texturados de material Ductal (con UHPFRC); éste material permitió reproducir los detalles más finos del molde como las clavijas de los paneles de 1cm de alto y 20 mm de diámetro (AFGC, 2013).

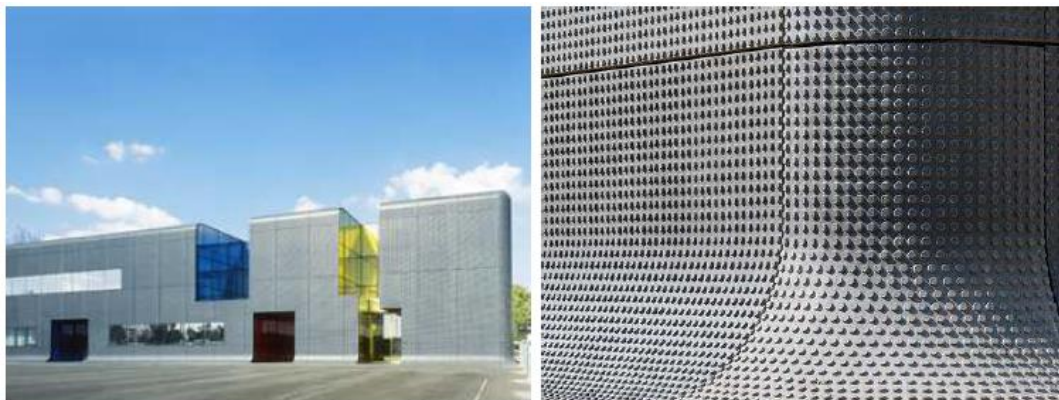


Figura 14. Central de autobuses "RATP" con paneles Ductal, en Francia (AFGC, 2013)

- En Tokio, Japón en los años 2007 – 2010 se construye la pista del aeropuerto de Haneda (Figura 15) con hormigón de ultra alta resistencia reforzado con fibras (UHPFRC). Ésta estructura fue construida exclusivamente para vuelos internacionales. Se extiende sobre un área de 520.000 m² recuperados del mar; está conformado por dos estructuras: una parte sumergida de hasta 70m de profundidad hecha de pilares de acero y una parte de 6139 grandes losas de concreto Ductal (con UHPFRC) en 192.000 m² colocados en vigas de acero.

Ductal cuenta con la característica de resistir al ataque de medio marino. Se fabricaron y utilizaron 7000 bloques de 8 x 4 m para soportar el peso de los aviones en la pista y a la vez se redujo el peso de las losas con ésta solución de concreto (AFGC, 2013).



Figura 15. Pista del aeropuerto Haneda en Japón en UHPFRC (AFGC, 2013)

- En el año 2010 en Francia, se construye la cubierta arquitectónica con placas finas pretensadas por post – tensión (Figura 16). Las láminas son elementos de UHPFRC de sección longitudinal en forma de “S” para aportar una connotación estética a la cubierta, se utilizaron 160 unidades de 12m de longitud, ancho de 1,80m y un espesor medio de 5cm (AFGC, 2013).



Figura 16. Placa fina pretensada de UHPFRC para cubierta de piscina (AFGC, 2013)

- En Kampung Ulu Kampar en Malasia se construyó un puente de tráfico medio de 18 m de longitud (Figura 17), el sistema completo del puente es de UHPRF y se construyó en el año 2012.



Figura 17. Puente de UHPRFC en Kampung Ulu Kampar, Gopeng, Perak, Malasia (Lei, Nematollahi, Mohamed, Gopal, & Yee, 2012)

La razón principal del uso del hormigón de ultra alta resistencia reforzado con fibras (UHPRFC), fue la dificultad de acceso al lugar del proyecto por la vía de acceso deficiente, lo cual hizo imposible el uso de remolques que transporten vigas de 18m de longitud, como medida a ésta dificultad el proyectista consideró dividir a las vigas en tres partes de 6m de longitud y construirlas con UHPRFC para disminuir el peso de las secciones (6 toneladas cada pieza) y así poder usar un camión simple de diez ruedas (Figura 18) para transportar cada segmento del puente; una vez las secciones de la viga estaban en el sitio del proyecto se procedía a realizar el tesado para formar la viga de

18m de longitud como se aprecia en la Figura 18 (Lei, Nematollahi, Mohamed, Gopal, & Yee, 2012).



Figura 18. Camión de 10 ruedas que transporta un segmento de viga de UHPFRC de 6m de largo (izquierda); segmentos de vigas alineados listos para el postensado (derecha), (Lei, Nematollahi, Mohamed, Gopal, & Yee, 2012)

- En España se construye la pasarela del Barranco de las Ovejas ubicado en Alicante (Figura 19), se trata de la primera pasarela en el mundo construida con celosías donde se usa en la totalidad de la pasarela el hormigón muy alta resistencia (HMAR), con armadura pasiva y activa.



Figura 19. Pasarela de HMAR sobre el Barranco de las Ovejas (Serna, y otros, 2014)

Se caracteriza por ser una obra de 42.81 m de luz conformada por dos celosías tipo Warren modificada con peralte variable y unidas entre sí mediante una celosía inferior y un tablero de 3 metros de ancho como se observa en la Figura 20 y Figura 21 (Serna, y otros, 2014).

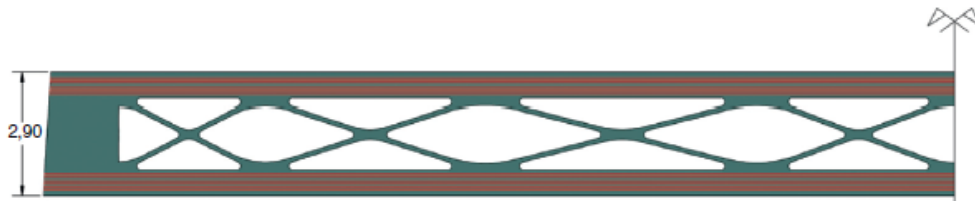


Figura 20. Celosía inferior pasarela del Barranco de las Ovejas (Serna, y otros, 2014)

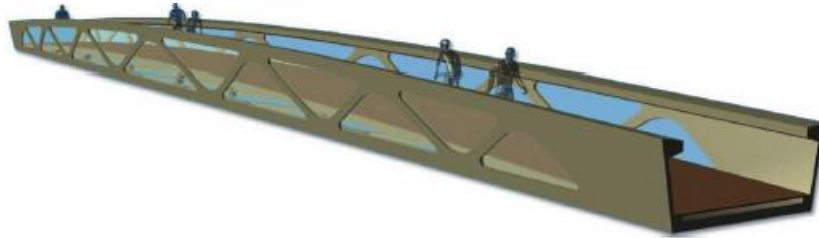


Figura 21. Diseño 3D de la pasarela del Barranco de las Ovejas (Serna, y otros, 2014)

- En el año 2014 se construye la pasarela de 33 metro de longitud para uso peatonal y de ciclistas en Puçol, Valencia, España. La pasarela está construida íntegramente por hormigón de muy alta resistencia, los diseñadores optaron por esta solución al estar la obra ubicada cerca del mar debido a las ventajas que aporta el HMAR en este tipo de entornos. En la Figura 22 se muestra la colocación de la pasarela (Furió, 2014).

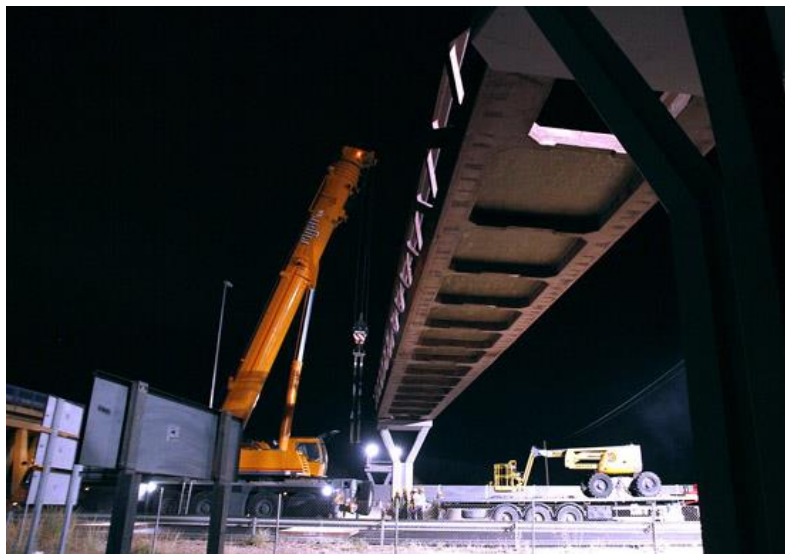


Figura 22. Pasarela de Puçol (Furió, 2014)

- Para la modernización del estadio de rugby en París (Figura 23) se fabricaron 20.000 m² de placas curvas prefabricadas de UHPC, éstas placas permitieron crear techos y fachadas impermeables. Las placas triangulares son de 8,20 m de longitud máxima, 2,4 m de ancho y 25 mm de espesor y son soportados por una estructura metálica. Para el análisis del comportamiento estructural de los elementos de UHPC usaron el método de los elementos finitos, para diferentes cargas incluyendo los efectos de la temperatura y fatiga (Beton, 2015).



Figura 23. Stadio Jean Bouin, Francia (Busta, 2015)

Vale la pena destacar también el uso del UHPC en otras estructuras diferentes a las pasarelas como: columnas, fachadas, escaleras, balcones, techos, tabla estacas, tuberías, mobiliario. Con esto se demuestra que los hormigones de altas prestaciones se pueden utilizar en muchas aplicaciones de la construcción, siendo competitivo frente a otros materiales de construcción.

2.3. VENTAJAS DEL HMAR

2.3.1. Estética

Durante mucho tiempo no se podía realizar con facilidad estructuras que sean atractivas para la vista con el uso de hormigones convencionales, esto se debe a la robustez de los elementos. En la actualidad, con el uso de los hormigones de muy alta resistencia reforzado con fibras (HMARF), se consigue fabricar elementos más ligeros y esbeltos que con el uso de buenos encofrados se logra acabados interesantes para los usuarios a continuación, se presenta algunos elementos de este tipo:

- La pasarela del barranco de las ovejas construido con HMAR en Alicante, España, presenta acabados atractivos para la vista y además los elementos que constituyen la estructura son ligeros como se aprecia en la Figura 19.
- Los componentes de la fachada de la red "Los niños del paraíso", Francia, Chartres (28), en el año 2007. Es una fachada de 440 m² como se observa en la Figura 24, consta de 67 paneles (2.48x2.88). El HMARF consta de fibras metálicas y pigmento negro, tiene buena estanqueidad, resistencia a los golpes y se puede hacer formas complejas (AFGC, 2013).



Figura 24. Elevación de la fachada "Los niños del paraíso" (AFGC, 2013)

- La remodelación de la estación Saint-Jean Techo de la sala (Figura 25), Francia, Burdeos (33), en el año 2008. Se usó en el techo 48 paneles con vidrio de dimensiones (1.60x4.66x0.095m) (AFGC, 2013).



Figura 25. Estación Saint-Jean, Francia (AFGC, 2013)

- En las investigaciones que realiza el Instituto de Ciencia y Tecnología del Hormigón (ICITECH) de la Universidad Politécnica de Valencia (UPV), se encuentra el mobiliario que se observa en la figura, el cual es de HMAR y además cuenta con muy buena resistencia.

El material con espesores de 16 y 38 mm resiste a la compresión 160 MPa y en flexión equivalente más de 30 MPa, sin el uso de refuerzo convencional (Yepes, 2013).



Figura 26. Mobiliario investigado por el ICITECH, UPV (Yepes, 2013)

2.3.2. Comportamiento Sostenible

El HMARF satisface los requisitos de sostenibilidad en los siguientes puntos:

- **Análisis ambiental en la construcción:** El contenido de cemento de los HMARF es alto en comparación con otros hormigones, lo que se traduce en una elevada generación de CO₂. En un análisis preliminar se puede usar los datos de la Tabla 2. A pesar de ello al usar el HMARF se reduce notablemente la cantidad de hormigón por sus mejores características mecánicas, como por ejemplo para el caso de vigas de puentes la cantidad de hormigón se puede dividir para 2.5 o 3. Además el ahorro de concreto también se da en el resto de elementos que conforman el puente (pilares, cimentaciones), con esto la emisión de CO₂ puede ser similar o menor (AFGC, 2013).

	Kg éq CO ₂ / m ³ de matériau mis en œuvre <i>Kg eq CO₂ / m³ of material</i>	Energie/energy MJ/m ³
Etude CERIB <i>CERIB study</i>	974	9,148
[BEHL,07] Etude Ductal® <i>Ductal® study</i>	950 avec fibres revêtues/ <i>with coated fibres</i>	11,488
[BOUH,09] Article Bouhaya, Leroy <i>Bouhaya and Leroy article</i>	1049	7,520
[STEN,08] Article Stengel <i>Stengel article</i>	1350	

Tabla 2. Generación de Kg eq. CO₂/m³ de HMARF (AFGC, 2013)

- **Evaluación del costo del proceso de construcción:** Si se realiza un proceso industrializado de construcción se consigue tener proyectos más rentables que al usar hormigones convencionales.
- **Aspecto social del desarrollo sostenible:** Al tener en cuenta los criterios sociales el HMARF puede ser ventajoso en los siguientes aspectos:
 - a) Mercado de empleo: Para elaborar el HMARF se requiere mano de obra calificada.
 - b) Arquitectura: Con este material es posible fabricar formas atípicas y esbeltas.
 - c) Seguridad y salud de los trabajadores: El HMARF al ser un hormigón autocompactante se descarta el proceso de vibración que genera una alta contaminación acústica.
- **Alternativas de reparación o modernización de estructuras existentes:** Los HMARF tienen la capacidad de reparar o mejorar la vida útil de las estructuras dañadas, con esto se logra evitar la demolición de estas estructuras y al implementar estos procesos se consigue un costo ambiental y económico muy atractivo. Existen muchos tipos de reparaciones documentados como: [MONO, 04], [SALE, 06], [DUCT, 99], entre otros (AFGC, 2013).

2.3.3. Influencia de las fibras

Las fibras adquieren un papel fundamental en el desempeño del HMAR, son las responsables de que en el elemento tenga resistencia a tracción y de controlar mejor la fisuración que en un elemento de hormigón convencional.

Durante la etapa de fabricación del elemento la forma en la cual se colocan las fibras es importante, éstas deberían implementarse de tal forma que la carga aplicada al elemento sea perpendicular a las fibras.

Para medir la influencia que tienen la orientación de las fibras se utiliza el factor K, este se determina mediante pruebas experimentales, simulando en lo posible las condiciones reales de la estructura (Figura 27) . El factor K se aplica para la ley de tracción post fisuración del elemento (AFGC, 2013).

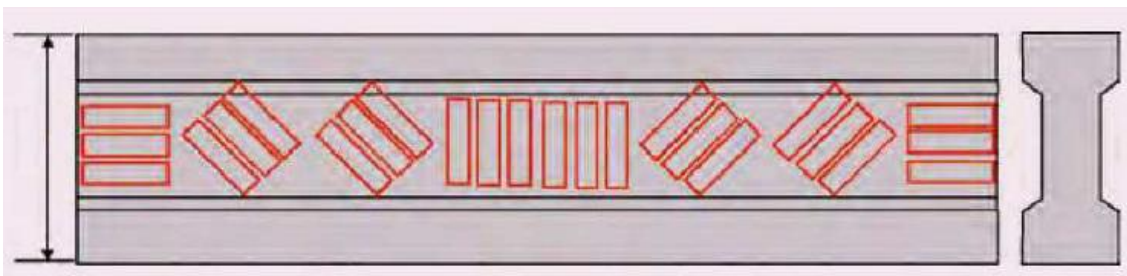


Figura 27. Ejemplo de especímenes para determinar el factor K en diferentes direcciones (AFGC, 2013)

(Cordero, 2015) hace una revisión bibliográfica donde indica que se puede obtener una eficiencia al 100 % de las fibras cuando están en la dirección de los esfuerzos, cuando las fibras se disponen en cualquier dirección en dos dimensiones la eficiencia es del 63.7% y cuando es en tres dimensiones la eficiencia es del 50%. No obstante, otros investigadores señalan que las fibras inclinadas entre 150 y 300, proveen un desempeño de extracción en un 20% más que colocar las fibras perfectamente alineadas.

2.3.4. Coste

A la hora de definir el tipo de material que se usa en los proyectos, uno de los factores determinantes es el coste, sin duda el HMARF alcanza un coste elevado de producción en comparación con el hormigón convencional (HC), debido a que se requiere una elevada cantidad de cemento, además se utiliza fibras, aditivos, adiciones como humo de sílice, filler y se prescinde de los áridos gruesos que es uno de los materiales más económicos.

Sin embargo, el HMAR posee mejores prestaciones que el HC, con lo cual se consigue dimensionar elementos de menor sección reduciendo la cantidad de hormigón, el mantenimiento que requiere es mucho menor, posee una durabilidad elevada porque tiene menor cantidad de poros, posee una apariencia más atractiva para la vista, se puede conseguir formas singulares. Según la cantidad de fibras que se emplean es posible prescindir, la armadura pasiva y la de corte. Es rentable implementar un proceso de fabricación industrializada, por tanto, se reduce la cantidad de mano de obra y el transporte.

El precio de los materiales de hormigones está en función de su dosificación a continuación, se presentan precios referenciales:

- El hormigón de muy alta resistencia reforzado con fibras (HMARF): 840 euros/m³ (López, 2012)
- El hormigón convencional (HC): 90 euros/m³

Capítulo 3

3. BASES TEÓRICAS

3.1. PROPIEDADES DEL HORMIGÓN DE MUY ALTA RESISTENCIA

3.1.1. Densidad

La densidad al igual que en un hormigón convencional se puede utilizar 2500 Kg/m³, si se desea obtener este valor con mayor precisión se deben hacer pruebas en el laboratorio (AFGC, 2013).

3.1.2. Módulo de Young

Varias investigaciones demuestran que no existe una sola fórmula que relacione el módulo de elasticidad con la resistencia a compresión del HMAR, por lo que las recomendaciones de la AFGC indican que se debe hacer un ensayo para conocer el módulo de Young del material que se va a usar. Al no tener el valor del módulo de elasticidad para el diseño preliminar se puede adoptar el valor de 50 GPa (AFGC, 2013).

3.1.3. Efectos del tratamiento térmico

En los HMARRF se puede utilizar el tratamiento térmico (HT), que brinda los siguientes resultados:

- Alcanzar una resistencia más rápida del hormigón (compresión y tracción)
- Se reduce la retracción diferida y los efectos de fluencia una vez que se termine el tratamiento térmico.
- Mejora la durabilidad

En la actualidad existen dos tipos de tratamiento térmicos y se pueden aplicar independientemente, los cuales son:

- Primer tipo: Es aquel que se aplica durante las primeras horas llamado “curado térmico” (conocido en la NF EN 13369 como “hidratación acelerada por tratamiento térmico”), descrito en 1992-1-1. Trata de prever el momento en que

el HMARRF comienza a fraguar y acelerar el endurecimiento inicial. Se realiza a una temperatura moderada y según experiencias a una temperatura menor a los 65 °C se retrasa el riesgo de formación de etringita.

- Segundo tipo: Se usa cuando el concreto ya endureció. El objetivo es generar nuevos hidratos para aumentar aún más la resistencia mecánica de la matriz de cemento, se reduce las deformaciones diferidas y mejora las características de durabilidad. En este método se lleva al elemento a unas temperaturas relativamente altas (aproximadamente 90 °C) y el contenido de humedad próximo a la saturación unas horas después de que fragüe el concreto.

Es importante aplicar este tratamiento una vez que el concreto ya haya fraguado para evitar cualquier riesgo de formación tardía de etringita

Realizar el tratamiento térmico muy rápido puede reducir la resistencia a largo plazo.

Las principales bondades que entrega el tratamiento de segundo tipo son:

- Los elementos alcanzan su madurez final más rápido, por lo tanto, se puede usar el elemento antes de que llegue a los 28 días. Esta característica es importante en hormigones ordinarios.
- La resistencia a compresión y tracción es un 10% más alta al usar un (HT), que la resistencia a 28 días de un elemento almacenado en agua.
- La retracción total es cero.
- La fluencia se reduce notablemente por lo cual se puede usar un coeficiente de fluencia de 0.20 en lugar del de 0.80.
- Mejora la durabilidad porque se reducen los poros (AFGC, 2013).

3.1.4. Fluencia

Al utilizar el tratamiento térmico de segundo tipo se reduce considerablemente la fluencia, mientras que si no hay tratamiento la fluencia del HMARRF es similar a un hormigón de alta resistencia (HAR). Si no se tiene datos de fluencia a largo plazo para el diseño preliminar se adoptarán los siguientes valores:

- $\phi = 0.80$ si no hay tratamiento
- $\phi = 0.40$ con tratamiento de primer tipo
- $\phi = 0.20$ con tratamiento del segundo tipo (AFGC, 2013)

3.1.5. Retracción

En los hormigones de alto rendimiento reforzados con fibras (HMARRF) siempre que exista un curado húmedo durante el fraguado la retracción que se produce es endógena. Si al elemento se le proporciona un tratamiento térmico de primer tipo la retracción se produce parcialmente durante este proceso. Si tratamiento térmico es de segundo tipo se considera que ya no habrá más retracciones después de finalizar este proceso.

Cuando no se tiene valores de la retracción, para el diseño preliminar se puede adoptar los siguientes valores para los efectos a largo plazo:

- Sin tratamiento térmico: Para la contracción endógena $550 \mu/m$ y $150 \mu/m$ para la contracción por secado siempre y cuando esté en un entorno con humedad relativa promedio de alrededor de 50 a 70 %.
- Tratamiento térmico del primer tipo: En un ambiente exterior con una humedad relativa del 50 al 70 % la contracción total es $550 \mu/m$.
- Tratamiento térmico del segundo tipo: Antes del tratamiento la contracción total es de $550 \mu/m$, después de que se realice este tratamiento se considera que la contracción total es nula (AFGC, 2013).

En la Figura 28 se aprecia el comportamiento de un elemento que se tiene ante la retracción con y sin tratamiento térmico de segundo tipo.

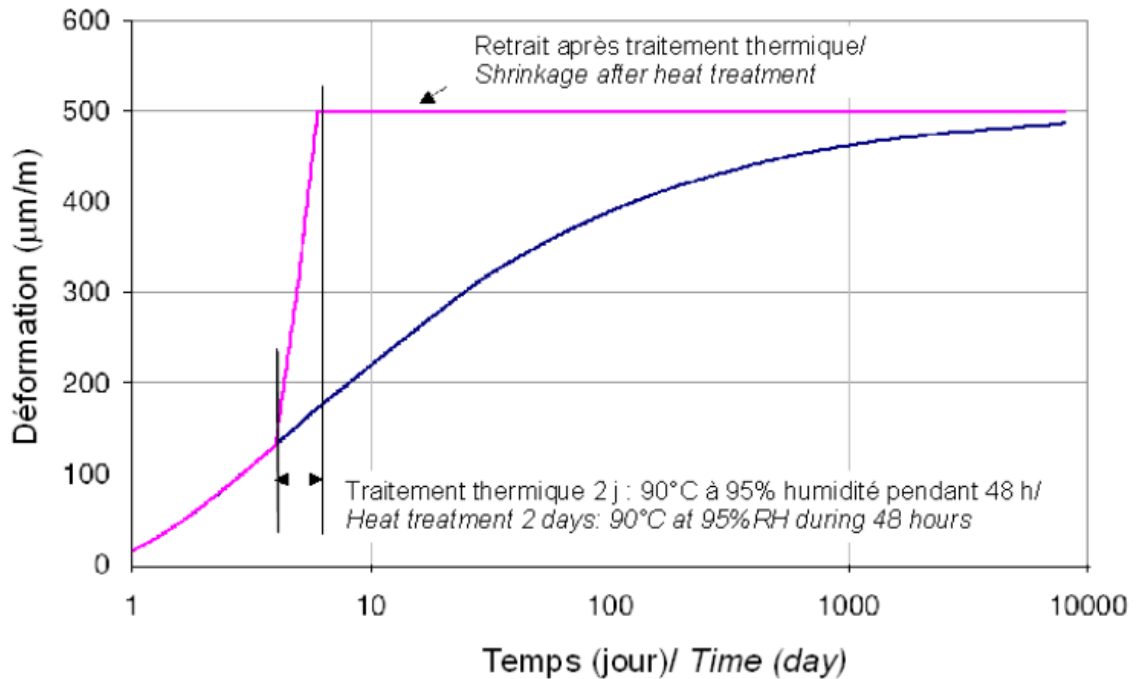


Figura 28. Ejemplo de retracción de un HMARRF con y sin tratamiento térmico de segundo tipo (AFGC, 2013)

3.1.6. Durabilidad

El HMARF presenta una mezcla muy homogénea al tener una gran cantidad de materiales finos en su mezcla posee una porosidad muy baja, por ello tiene una garantía de defensa ante un entorno agresivo y requiere menor mantenimiento que un hormigón regular. Este aspecto es importante para el análisis del ciclo de vida de la estructura.

Este tipo de hormigones poseen rendimientos particularmente altos ante los ciclos de congelación, descongelación y la abrasión. También posee una resistencia muy alta ante la corrosión y una considerable resistencia frente el fuego (AFGC, 2013).

3.1.7. Comportamiento ante altas temperaturas

Para asegurar un buen comportamiento de del HMAR frente a altas temperaturas es necesario incluir en la mezcla fibras de polipropileno, estas fibras ante altas temperaturas se derriten y producen cavidades dentro del hormigón por donde circula el vapor, de lo contrario el HMAR al tener una porosidad baja puede explotar.

Pruebas que realizaron investigadores indican que a 600 OC se pierde alrededor del 10 al 50% de la resistencia a compresión y en el orden del 80% a 800 OC. Con respecto a la resistencia a la tracción esta disminuye en torno al 40% a 150 OC y el 55% a 7500C. La resistencia a la tracción pos-agrietamiento desaparece a los 450 OC. El módulo de elasticidad disminuye aproximadamente del 50 al 80% a 600 OC (AFGC, 2013).

3.2. PROPIEDADES MECÁNICAS DEL HMAR

3.2.1. Resistencia a compresión

En compresión los HMARRF poseen un comportamiento elástico en un amplio rango de deformación, después alcanzan un valor máximo (f_{cm} en la tensión media, f_{ck} en la tensión característica). Así como todos los hormigones la curva alcanza un pico donde la tensión ya no es uniforme y después de este pico la disminución en el esfuerzo corresponde a un efecto estructural. La disminución de este esfuerzo puede ser repentino y disperso si el contenido de fibras es menor que el mínimo (según las recomendaciones de la AFGC el 2% garantiza que la falla no sea frágil).

Los HMARRF cubiertos por las recomendaciones AFGC contralan que:

$$150 \text{ MPa} \leq f_{ck} \leq 250 \text{ MPa}$$

En la Figura 29 se tiene la ley constitutiva del HMARRF en compresión:

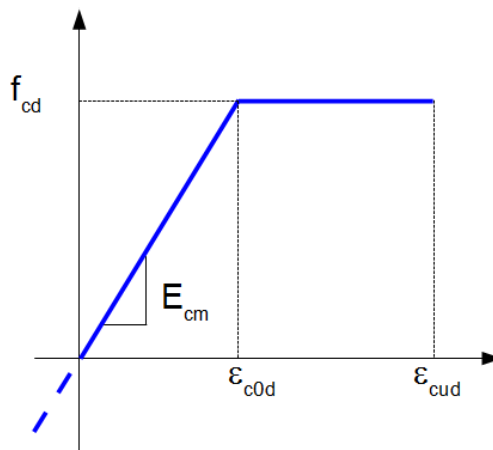


Figura 29. Ley constitutiva de compresión de HMARRF para ELS / ELU (AFGC, 2013)

Donde:

$$\varepsilon_{c0} = f_{ck}/E_{cm}$$

$$f_{cd} = \alpha_{cc} f_{ck} / \gamma_c$$

$$\varepsilon_{c0d} = f_{cd}/E_{cm}$$

γ_c : es el coeficiente de seguridad para el hormigón dado en 2.4.2.4 de EN 1992 1.1

α_{cc} : es el coeficiente que tiene en cuenta los efectos a largo plazo en la compresión y los efectos negativos por la forma en que se aplica la carga. El valor recomendado es 1 para hormigón ordinario y para HMARRF la AFG recomienda 0.85.

Para un diseño preliminar se recomienda $f_{cm} = 180\text{MPa}$, $f_{ck} = 150\text{MPa}$ y por ende $f_{cd} = 85\text{MPa}$ (AFGC, 2013).

Para el ε_{cud} se puede usar la siguiente expresión:

$$\varepsilon_{cud} = [1 + 14 (f_{ctfm}/f_{cm})] \cdot \varepsilon_{c0d}$$

La AFGC recomienda para el diseño preliminar $\varepsilon_{cud} = 2.7 * 10^{-3}$ (tomando $f_{ctfm} = 9\text{MPa}$)

f_{ctfm} : es la tensión media máxima posterior al esfuerzo de agrietamiento

f_{cm} : es la tensión media máxima en compresión

Para el análisis de la estabilidad (por ejemplo, columnas que tengan pandeo), se puede usar la ley constitutiva refinada post – pico obtenida de pruebas de desplazamiento controlado. También se puede usar una ley analítica definida de forma convencional basada en los valores conocidos de f_{cm} , E_{cm} o $E_{c,eff}$ y la tensión media post – agrietamiento f_{ctf} (AFGC, 2013).

3.2.2. Resistencia a tracción

Los HMARRF presentan un comportamiento de tracción elástico hasta el valor límite $f_{ct,el}$ (este valor se modifica en función de la cantidad de fibras) igual al de los hormigones ordinarios, no obstante, el módulo de elasticidad es el mismo para compresión como para tracción. A diferencia del hormigón ordinario al alcanzar el elemento la tensión límite $f_{ct,el}$, esta tensión no se vuelve nula debido a la presencia de las

fibras que comienzan a trabajar cuando se produce el agrietamiento (ver Figura 30 del medio).

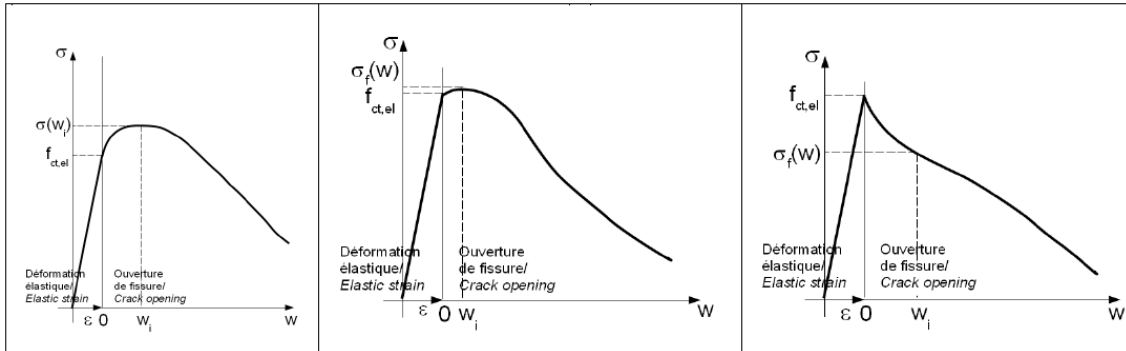


Figura 30. Ejemplo de ley constitutiva de tracción de un HMARRF (caso de un material de endurecimiento por deformación a la izquierda, un material de bajo endurecimiento por deformación en el medio y un material de ablandamiento por deformación a la derecha) (AFGC, 2013).

La resistencia a tracción que proporcionan las fibras al elemento se traducen en σ_f que es igual a la fuerza dividida para el área de la sección transversal del hormigón. Cuando las fisuras comienzan a crecer las fibras se retiran paulatinamente, lo que produce la disminución de la tensión aparente (esto no se produce porque se rompen las fibras sino por la falta de unión).

Las leyes constitutivas a tracción están en función de la cantidad de fibras, su longitud y la relación longitud diámetro como, por ejemplo, cuando la resistencia posterior al agrietamiento es mayor que la resistencia de la matriz se da el endurecimiento por tensión (Figura 30 de la izquierda. También se puede dar que la resistencia de la matriz sea mayor que la resistencia posterior al agrietamiento, esto se conoce como ablandamiento por deformación (Figura 30 de la derecha) (AFGC, 2013).

Para el diseño preliminar se utiliza la resistencia a tracción que indica la Asociación Francesa de Normalización (AFNOR, 2016):

Límite de elasticidad característico en tracción $f_{ct,el}$: 7.00 – 10.00 MPa

3.2.3. Flexión

En análisis experimentales se encuentra que el HMARF puede resistir 29 MPa a los 28 días a flexo tracción (AFGC, 2013). Estos resultados varían en función del tamaño y del tipo de fibras que se utilice. Con una cantidad determinada de fibras se puede prescindir de la armadura pasiva y de la armadura de cortante.

En el trabajo de investigación de (López, 2012), indica el ensayo de un elemento de hormigón de ultra alta resistencia reforzado con fibras (UHPFRC), realizado a tres o cuatro puntos, aquí se obtiene la Figura 31 donde se distingue claramente tres zonas caracterizadas por su estado de fisuración y por la ley de tensiones existentes en la sección más desfavorable.

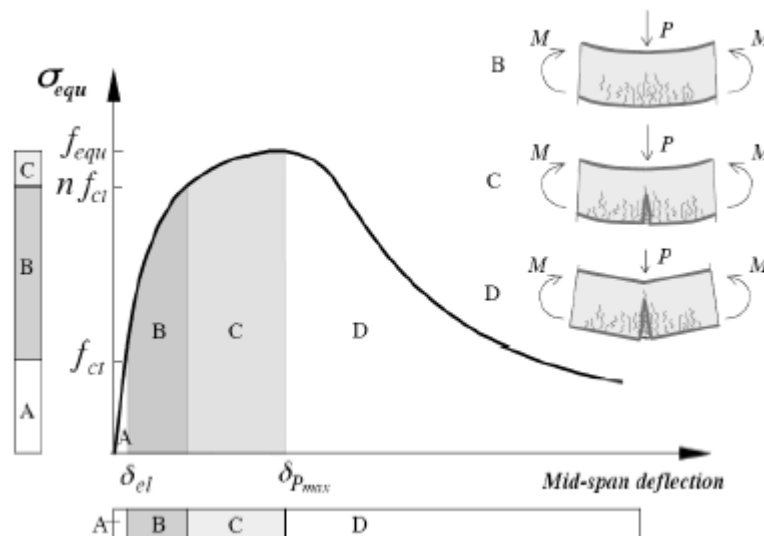


Figura 31. Curva a tensión equivalente - flecha en un ensayo a flexión (Spasojevic, 2006)

La zona “A” se caracteriza por un comportamiento elástico (Figura 32), ésta región se delimita cuando se alcanza el valor de la deformación elástica máxima a tracción. En esta zona se alcanza un 35-40% de la resistencia total a flexión, y alrededor de un 10% de la deformación máxima (López, 2012).

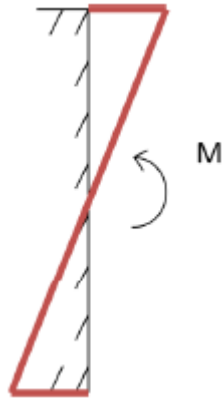


Figura 32. Diagrama tensional en la zona "A" (López, 2012)

En la zona “B” (Figura 32) es cuando el elemento entra en el rango no lineal con microfisuraciones cuando la fibra más traccionada supera la máxima deformación elástica a tracción. Se caracteriza por el desplazamiento hacia la zona de compresión de la fibra neutra con respecto al centro de gravedad del elemento (López, 2012).

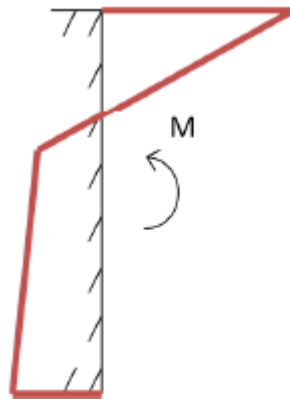


Figura 33. Diagrama tensional zona "B" (López, 2012)

El apareamiento de las macrofisuras en la sección crítica se da cuando se alcanza la deformación asociada a la máxima tensión; no obstante, las macrofisuras no siempre aparecen en la sección crítica debido a la distribución desigual de las fibras. Esta fase está comprendida por la zona “C” y “D”, la región “D” inicia cuando la carga de flexión alcanza la sección crítica de rotura, la deformación a tracción máxima es superior a la deformación máxima de tensión (López, 2012).

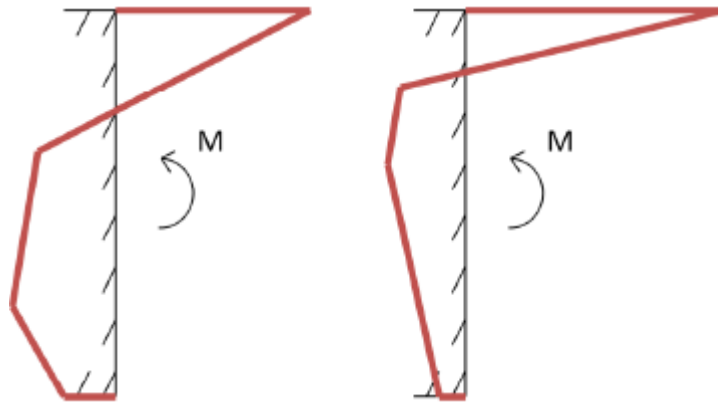


Figura 34. Diagrama tensional en zona "C" (izquierda) y zona "D" (derecha) (López, 2012)

Capítulo 4

4. BASES DE CÁLCULO

El presente capítulo tiene como objeto definir los conceptos que debe regir el cálculo de las estructuras y el dimensionamiento de las secciones del hormigón de alta resistencia. Por consiguiente, esta forma de cálculo trae como consecuencia estructuras más balanceadas, con márgenes de seguridad más uniformes respecto a las cargas. La optimización del material es esencial, y se encuentra regido bajo unos parámetros de cálculo y unas normas de utilización, las cuales serán consideradas en el desarrollo de la cercha. A continuación, se exponen los parámetros.

4.1. NORMATIVA

Las normativas actuales al momento no cuentan con un capítulo específico para el hormigón de muy alta resistencia (HMAR) o en inglés UHPC, por lo cual se hace uso de diferentes recomendaciones e investigaciones. A continuación, se presentan las normas y documentos que se usan:

- EHE – 08
- Código de técnico de la edificación (CTE)
- Norma de construcción sismo resistente: Parte general y edificación (NSCE – 02)
- Documento básico SE – AE (seguridad estructural y acciones en la edificación)
- Recomendaciones de la asociación francesa de ingenieros civiles (AFGC-2013).

4.2. COEFICIENTES Y CARACTERÍSTICAS DEL MATERIAL

Para el cálculo de la cercha se considera que sus apoyos sobre los pilares son articulaciones. Los nudos entre barras son articulaciones que soportan esfuerzos axiales y se desprecia el momento que genera el peso propio en cada barra porque es de magnitud pequeña.

En el análisis por estado límite último (ELU) se considera los coeficientes de seguridad de la Tabla 3.

Tabla 3. Coeficientes de seguridad de las acciones para ELU

Acción	Situación proyecto	
	Favorable	Desfavorable
Permanente	1.00	1.35
Variable	0.00	1.50

En el análisis por estado límite de servicio (ELS) se considera los coeficientes de seguridad de la Tabla 4.

Tabla 4. Coeficientes de seguridad de las acciones para ELS

Acción	Situación proyecto	
	Favorable	Desfavorable
Permanente	1.00	1.00
Variable	0.00	1.00

Los coeficientes de combinación en uso para las cargas variables son los de la Tabla 5.

Tabla 5. Coeficientes de combinación para las cargas variables

Acción	Ψ_0	Ψ_1	Ψ_2
Sobrecarga	0.00	0.00	0.00
Nieve	0.50	0.20	0.00
Viento	0.60	0.50	0.00

Para el diseño del pretensado que requiere el cordón de la cercha se utiliza los coeficientes de la Tabla 6 para elementos pretesos.

$$P_{k,sup} = r_{sup} * P_{m,t}(x)$$

$$P_{k,inf} = r_{inf} * P_{m,t}(x)$$

Tabla 6. Coeficientes para el efecto de pretensado

rinf	0.95
rsup	1.05

Los valores de las características mecánicas del hormigón que se usan en el cálculo de la cercha se muestra en la Tabla 7.

Tabla 7. Características mecánicas del hormigón usadas en el proyecto

Hormigón	
fck(MPa)	150
α_{cc}	0.85
γ_c	1.5
fcd(MPa)	85
Ec(MPa)	50000
fckt(MPa)	-8.00
ϵ_{cs}	0.00
$\varphi(t,t_0)$	0.20

Para el cálculo de la armadura activa se considera las características del material que se muestra en la Tabla 8.

Tabla 8. Características de la armadura activa

Armadura activa	
fpk,(MPa)	1860
Ep (MPa)	190000
a(mm)	6.00
Lcuñas(m)	31.00
Coef relajación	0.06

4.3. ACCIONES A CONSIDERAR

Las acciones que se consideran se obtienen del Código Técnico de Edificación (CTE) y el NCSE-02.

4.3.1. Cargas permanentes

4.3.1.1. Peso propio

Se calcula el peso propio mediante el software Matlab2018 de forma iterativa en función de las dimensiones de los elementos que varían según el análisis. Para el cálculo y diseño óptimo de la cercha de la cubierta se utiliza el programa Matlab2018.

4.3.1.2. Carga muerta

- *Panel tipo Sandwich:* Se utiliza el panel basic cubierta 5G de “ACH” que se indica en la Figura 35, este es un panel autoportante con aislamiento en poliuretano, se debe utilizar en cubiertas inclinadas con una pendiente mínima del 7%

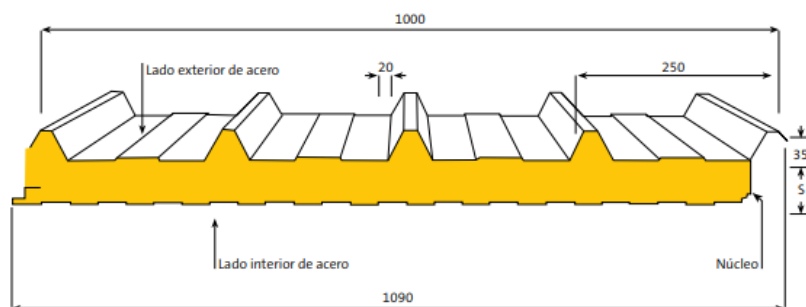


Figura 35. Panel basic cubierta 5G (ACH, 2016)

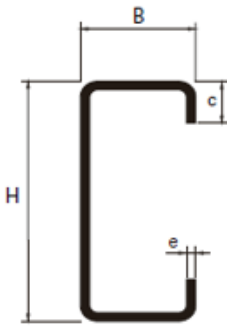
Para el Proyecto se escoge el panel de 50 mm con separación de correas máximo de 1.50m como se muestra en la Tabla 9, que presenta un peso de **9.33 Kg/m²** (aproximado 0.1KN/m²).

Tabla 9. Características técnicas del panel basic cubierta 5G (ACH, 2016)

S mm	K		Peso panel kg/m ²	p=(daN/m ²)	P										P									
	Kcal m ² h ⁻¹ °C	Watt m ² °C			Δ	l	Δ	l	Δ	l	Δ	l	Δ	l	Δ	l	Δ	l	Δ	l				
30	0,47	0,54	8,57	l =	4,20	3,65	3,25	2,95	2,60	2,25	2,00	1,85	3,75	3,25	2,80	2,55	2,30	2,00	1,80	1,60				
40	0,37	0,43	8,95	l =	4,45	3,90	3,45	3,15	2,80	2,45	2,15	2,00	4,00	3,45	3,10	2,80	2,55	2,15	1,95	1,75				
50	0,31	0,36	9,33	l =	4,70	4,05	3,65	3,30	3,00	2,55	2,30	2,15	4,25	3,65	3,25	3,00	2,65	2,30	2,05	1,85				
60	0,26	0,32	9,71	l =	5,00	4,30	3,85	3,55	3,15	2,70	2,45	2,30	4,45	3,80	3,45	3,15	2,80	2,45	2,15	1,95				
80	0,21	0,24	10,47	l =	5,50	4,70	4,25	3,85	3,55	3,00	2,70	2,50	4,90	4,20	3,90	3,55	3,05	2,70	2,45	2,15				
100	0,17	0,19	11,23	l =	6,10	5,25	4,70	4,25	3,85	3,30	3,00	2,80	5,35	4,85	4,25	3,85	3,40	3,00	2,60	2,35				

- **Correas:** Son los elementos que se encargan de recibir las cargas el panel tipo sándwich y transferir éstas cargas a la cercha. Se utiliza la correa metálica tipo “C” con peso de 0.0714 KN/m, que se muestra en la Tabla 10.

Tabla 10. Característica geométrica canal tipo "C" (ACH, 2016)



A= Área de la sección.
 P = Peso por metro lineal.
 I = Momentos de Inercia.
 W= Módulo de sección.

Dimensión (mm)	Peso (Kg/m)	Área (cm2)	Ixx (cm4)	Iyy(cm4)	Wxx(cm3)	Wyy(cm3)
200x70x20x2.5	7.14	8.72	575.50	103.50	53.59	9.42

Instalaciones: Por las posibles instalaciones eléctricas, sanitarias que se puedan implementar en la cubierta en el cálculo se usa **0.05 KN/m²**

4.3.2. Cargas variables

4.3.2.1. Sobrecarga de uso

Por ser una cubierta inaccesible y sólo por motivo de posible mantenimiento se usa la carga distribuida de **0.40 KN/m²** y/o la carga concentrada de **1.00 KN**.

4.3.2.2. Nieve

El valor de la carga de nieve se calcula según el CTE

La carga de nieve por unidad de superficie en proyección horizontal, qn, puede tomarse:

$$q_n = \mu \cdot S_k$$

Donde:

μ = coeficiente de forma: En un faldón limitado inferiormente por cornisas o limatesas, y en el que no hay impedimento al deslizamiento de la nieve, el coeficiente de forma tiene el valor de 1 para cubiertas con inclinación menor o igual que 30°

S_k = Según la tabla E.2 del CTE por estar en Almussafes a una altitud menor a 200m y estar en zona 5 el valor de $S_k = 0.20 \text{KN/m}^2$

$$q_n = 1 \cdot 0.20 = \mathbf{0.20 \text{KN/m}^2}$$

4.3.2.3. Viento

Para el cálculo de ésta carga se utiliza el CTE. La acción de viento, en general es una fuerza perpendicular a la superficie de cada punto expuesto, la presión estática, q_e puede expresarse como:

$$q_e = q_b \cdot c_e \cdot c_p$$

Donde:

$$q_b = 0,5 \cdot \delta \cdot v_b^2$$

Según el mapa de la velocidad básica del viento de la norma CTE, $v_b = 26 \text{m/seg}$ para la zona de Almussafes (zona A).

$\delta = 1.25 \text{Kg/m}^3$

$$q_b = 0.5 \cdot 1.25 \cdot 26 = 0.42 \text{KN/m}^2$$

De la Tabla 11 se obtiene el valor del coeficiente de exposición (C_e) de 1.70 para una altura de 9 metros.

Tabla 11. Valores del coeficiente de exposición C_e (CTE, 2009)

Grado de aspereza del entorno	Altura del punto considerado (m)							
	3	6	9	12	15	18	24	30
I Borde del mar o de un lago, con una superficie de agua en la dirección del viento de al menos 5 km de longitud	2,4	2,7	3,0	3,1	3,3	3,4	3,5	3,7
II Terreno rural llano sin obstáculos ni arbolado de importancia	2,1	2,5	2,7	2,9	3,0	3,1	3,3	3,5
III Zona rural accidentada o llana con algunos obstáculos aislados, como árboles o construcciones pequeñas	1,6	2,0	2,3	2,5	2,6	2,7	2,9	3,1
IV Zona urbana en general, industrial o forestal	1,3	1,4	1,7	1,9	2,1	2,2	2,4	2,6
V Centro de negocio de grandes ciudades, con profusión de edificios en altura	1,2	1,2	1,2	1,4	1,5	1,6	1,9	2,0

Para encontrar el coeficiente de presión C_p existen diferentes casos en función del ángulo que actúa el viento. A continuación, se menciona los diferentes valores de C_p para cubiertas planas:

1. Dirección del viento $-45^\circ \leq \theta \leq 45^\circ$: En la Figura 36 se ilustra la forma en la que actúa el viento.

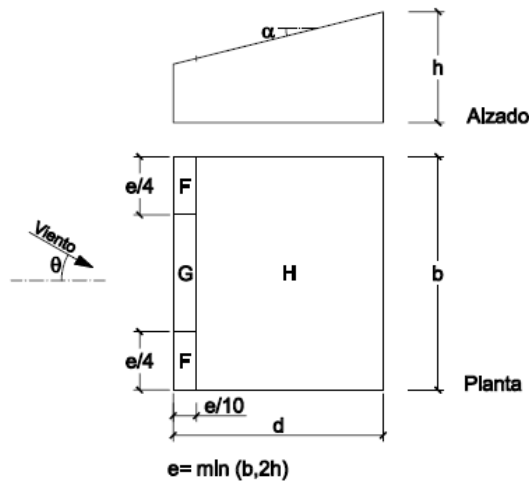


Figura 36. Dirección del viento $-45^\circ \leq \theta \leq 45^\circ$ (CTE, 2009)

En la Tabla 12 se indica enmarcado de color rojo los valores del coeficiente de presión para este proyecto para los ángulos entre $-45^\circ \leq \theta \leq 45^\circ$.

Tabla 12. Coeficientes de presión del viento para la dirección entre $-45^\circ \leq \theta \leq 45^\circ$ (CTE, 2009)

Pendiente de la cubierta α	A (m ²)	Zona (según figura), $-45^\circ < \theta < 45^\circ$		
		F	G	H
5°	≥ 10	-1,7 +0,0	-1,2 +0,0	-0,6 +0,0
	≤ 1	-2,5 +0,0	-2,0 +0,0	-1,2 +0,0
15°	≥ 10	-0,9 0,2	-0,8 0,2	-0,3 0,2
	≤ 1	-2,0 0,2	-1,5 0,2	-0,3 0,2

2. Dirección del viento $135^\circ \leq \theta \leq 225^\circ$: En la Figura 37 se ilustra la forma en la que actúa el viento.

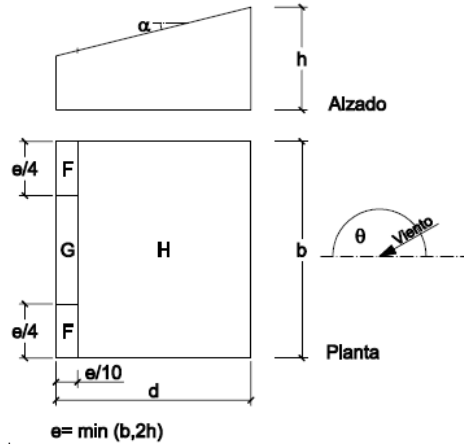


Figura 37. Dirección del viento $135^\circ \leq \theta \leq 225^\circ$ (CTE, 2009)

En la Tabla 13 se indica enmarcado de color rojo los valores del coeficiente de presión para este proyecto para los ángulos entre $135^\circ \leq \theta \leq 225^\circ$.

Tabla 13. Coeficientes de presión del viento para la dirección entre $135^\circ \leq \theta \leq 225^\circ$ (CTE, 2009)

Pendiente de la cubierta α	A (m ²)	Zona (según figura), $135^\circ \leq \theta \leq 225^\circ$		
		F	G	H
5°	≥ 10	-2,3	-1,3	-0,8
	≤ 1	-2,5	-2,0	-1,2
15°	≥ 10	-2,5	-1,3	-0,9
	≤ 1	-2,8	-2,0	-1,2

3. Dirección del viento $45^\circ \leq \theta \leq 135^\circ$: En la Figura 38 se ilustra la forma en la que actúa el viento.

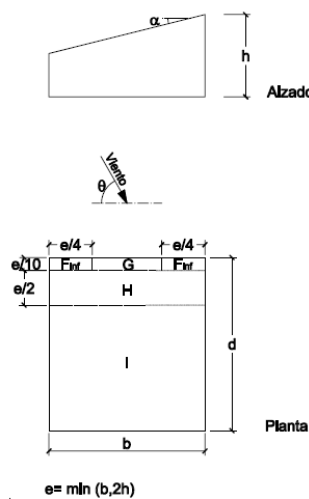


Figura 38. Dirección del viento $45^\circ \leq \theta \leq 135^\circ$ (CTE, 2009)

En la Tabla 14 se indica enmarcado de color rojo los valores del coeficiente de presión para este proyecto para los ángulos entre $45^\circ \leq \theta \leq 135^\circ$.

Tabla 14. Coeficientes de presión del viento para la dirección entre $45^\circ \leq \theta \leq 135^\circ$ (CTE, 2009)

Pendiente de la cubierta α	A (m ²)	Zona (según figura), $45^\circ \leq \theta \leq 135^\circ$				
		F _{inf}	F _{sup}	G	H	I
5°	≥ 10	-2,1	-2,1	-1,8	-0,6	-0,5
	≤ 1	-2,4	-2,6	-2,0	-1,2	-0,5
15°	≥ 10	-1,6	-2,4	-1,9	-0,8	-0,7
	≤ 1	-2,4	2,9	-2,5	-1,2	-1,2

En la Tabla 15 se indica los valores de coeficiente de presión y presión estática para usar en el proyecto.

Tabla 15. Coeficiente de presión y presión estática para distintos casos

Caso	Ángulo viento	Cp en la zona sobre la cubierta				qe (KN/m2) en la zona sobre la cubierta			
		F	G	H	I	F	G	H	I
a	-45°	-1.22	-0.86	-0.43		-1.22	-0.86	-0.43	0.00
	-0°	-1.22	-0.86	-0.43		-1.22	-0.86	-0.43	0.00
	45°	-1.22	-0.86	-0.43		-1.22	-0.86	-0.43	0.00
c	45°	-1.51	-1.29	-0.43	-0.36	-1.51	-1.29	-0.43	-0.36
	90°	-1.51	-1.29	-0.43	-0.36	-1.51	-1.29	-0.43	-0.36
	135°	-1.51	-1.29	-0.43	-0.36	-1.51	-1.29	-0.43	-0.36
b	135°	-1.65	-0.93	-0.57		-1.65	-0.93	-0.57	0.00
	180°	-1.65	-0.93	-0.57		-1.65	-0.93	-0.57	0.00
	225°	-1.65	-0.93	-0.57		-1.65	-0.93	-0.57	0.00

4.3.3. Cargas accidentales

4.3.3.1. Sismo

Según la clasificación de las construcciones de la norma NSCE-02, el pabellón de la piscina de “Almussafes” se considera de importancia normal. La aceleración básica (a_b) de la ubicación del proyecto es de 0.07g.

La norma NSCE-02 estipula que, para construcciones de importancia normal con pórticos bien arriostrados entre sí en todas las direcciones, con a_b menor a 0.08g se puede exceptuar el cálculo los efectos de la acción sísmica.

4.4. CÁLCULO DEL RECUBRIMIENTO NOMINAL

Para el cálculo del recubrimiento nominal se utiliza la norma EHE – 08, estipula que por la ubicación del pabellón la clase de exposición ambiental es el tipo IIb, sin embargo, las recomendaciones de la AFGC indica que por tener una piscina la edificación la clase de exposición ambiental XC3, la cual equivale a la clase IIa en la norma española. A continuación, se calcula el recubrimiento nominal para los dos tipos de exposición ambiental:

$$r_{nom} = r_{min} + \Delta r$$

$\Delta r = 0$ mm; en elementos prefabricados con control intenso de ejecución

En la Tabla 16 se indica el recubrimiento mínimo para la clase IIa y IIb

$$r_{nom,IIa} = 15 + 0 = 15mm$$

$$r_{nom,IIb} = 20 + 0 = 20mm$$

Se escoge el recubrimiento nominal de la exposición ambiental IIb, el cual es el más restrictivo.

Tabla 16. Recubrimientos mínimos (mm) para las clases generales de exposición I y II (EHE-08, 2011)

Clase de exposición	Tipo de cemento	Resistencia característica del hormigón [N/mm^2]	Vida útil de proyecto (t_p , años)	
			50	100
I	Cualquiera	$f_{ck} \geq 25$	15	25
II a	CEM I	$25 \leq f_{ck} < 40$	15	25
		$f_{ck} \geq 40$	10	20
	Otros tipos de cementos o en el caso de empleo de adiciones al hormigón	$25 \leq f_{ck} < 40$	20	30
		$f_{ck} \geq 40$	15	25
II b	CEM I	$25 \leq f_{ck} < 40$	20	30
		$f_{ck} \geq 40$	15	25
	Otros tipos de cementos o en el caso de empleo de adiciones al hormigón	$25 \leq f_{ck} < 40$	25	35
		$f_{ck} \geq 40$	20	30

Capítulo 5

5. DISEÑO DEL PABELLÓN DEPORTIVO

5.1. ESTUDIO DE DIFERENTES TIPOS DE CERCHAS

Para escoger el tipo de cubierta que se implementa en el diseño del pabellón deportivo se realiza el análisis mediante el método “AHP” (Proceso analítico jerárquico) de cinco alternativas de cubiertas las cuales se indican a continuación:

- a) Cubierta a “una agua”: Se trata del tipo de estructura para cubrir una construcción, que como función principal tiene evacuar el agua a un solo lado (Figura 39).



Figura 39. Cubierta a "una agua" (Rollgum, 2016)

- b) Cubierta a “dos aguas”: Es una de las tipologías de cubiertas más usadas para cubrir una construcción, las dos inclinaciones conforman un triángulo (Figura 40), es capaz de evacuar el agua lluvia a sus dos lados y por éste motivo es más eficiente que una cubierta a un agua.



Figura 40. Cubierta a "dos aguas" (Arkiplus, s.f.)

c) Cubierta plana: Es tipo de cubiertas son instaladas normalmente con una capa de hormigón, para evacuar el agua lluvia colocan una capa minúscula de mortero para dar una pendiente mínima a la cubierta para canalizar el líquido a los sumideros (Figura 41).



Figura 41. Cubierta plana (TPQ systems, s.f.)

d) Cubierta con canal intermedio: Este tipo de cubiertas también son denominadas cubiertas invertidas (Figura 42), ésta tipología es poco común en la construcción de edificaciones.

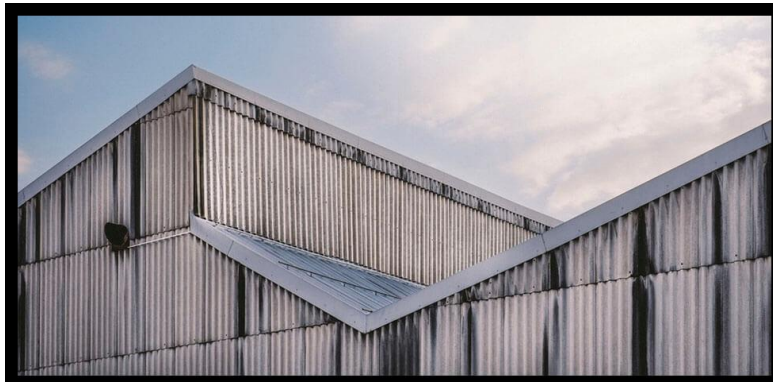


Figura 42. Cubierta con canal intermedio (Cubiertas del centro, s.f.)

e) Cubierta circular: Se caracterizan por brindar un acabado estético a la edificación como se observa en la Figura 43, el agua lluvia se puede evacuar a los dos lados y demanda una complejidad constructiva más alta que las otras cubiertas mencionadas.



Figura 43. Cubierta circular (Light cover, s.f.)

En este método se utiliza puntuaciones (Tabla 17) para calificar las alternativas y criterios con las cuales al final se obtiene un vector propio, que indica el peso que tiene cada alternativa y criterio en el análisis.

Tabla 17. Criterio de calificación en el método "AHP"

Igual	Moderada	Fuerte	Muy fuerte	Extrema
1	3	5	7	9

Las ponderaciones que se indican en la Tabla 18, son el resultado de la calificación que le asigna el autor del presente TFM a cada alternativa de cubierta, para que sea fabricada con el HMAR.

Los criterios que se usan para escoger la mejor alternativa de cubierta de hormigón son:

- Estética: La cubierta que brinda mejor estética a la estructura tiene un valor más cercano a 1.
- Drenaje: La alternativa que ofrece una evacuación más rápida y eficiente de evacuación de agua tiene un valor más cercano a 1.
- Accesibilidad a la cubierta: La opción de cubierta a la cual sea más fácil de acceder tiene un valor más cercano a 1.
- Mantenimiento: La estructura de cubierta que sea más cómodo y rápido de realizar el mantenimiento tiene un valor más cercano a 1.
- Complejidad en la construcción: La alternativa que sea menos compleja de construir tiene un valor más cercano a 1.

Al finalizar el método “AHP” se obtiene la Tabla 18 que indica las ponderaciones de cada opción, en donde se aprecia que la mejor para este tipo hormigón es la alternativa de cubierta a “una agua”.

Tabla 18. Ponderaciones de las alternativas y criterios mediante el método "AHP"

Tipo de cubierta	Criterio de selección						Resultado
	Estética	Drenaje	Accesibilidad (cubierta)	Mantenimiento	Complejidad constructiva	Pesos Criterios	
Una Agua	0.293	0.139	0.098	0.266	0.341	0.139	0.242
Dos Aguas	0.061	0.351	0.211	0.126	0.134	0.357	0.204
Plana	0.031	0.030	0.436	0.490	0.425	0.045	0.238
Con canal intermedio	0.224	0.130	0.044	0.044	0.066	0.125	0.107
Circular	0.391	0.351	0.211	0.073	0.034	0.334	0.210
Total	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Una vez que se define el tipo de cubierta se busca un proyecto para realizar el estudio de la cercha con el hormigón de muy alta resistencia (HMAR). El proyecto que se elige para el presente trabajo de fin de máster (TFM) es el realizado por la Ingeniera Alba Vidagany Iborra en su trabajo de fin de grado para la titulación de Ingeniería Civil, que se denomina “Pabellón de piscina cubierta ubicado en Almussafes (Valencia)”.

La ingeniera Vidagany presenta una solución estructural al pabellón de la piscina con una cubierta de madera (Figura 44). Para el presente trabajo de fin de máster se plantea como material estructural el uso del hormigón de muy alta resistencia para las cerchas.



Figura 44 Vista axonométrica de la estructura (Vidagany Iborra, 2015)

Para el cálculo y diseño óptimo de la cubierta del pabellón con hormigón de alta resistencia se utiliza como datos de partida los del TFG de la Ingeniera Vidagany.

5.1.1. Ubicación

La piscina se ubica en la parcela perteneciente al término municipal de Almussafes, en concreto en la zona urbana de esta localidad. La zona de actuación se encuentra ubicada dentro del recinto de piscinas municipal en la Ronda Antonio Ludeña esq. Calle Ausias March. (Vidagany Iborra, 2015)

El terreno en el que está integrado la obra dispone de una superficie de 5500m² para el uso deportivo y de recreo, del cual el pabellón para la piscina cubierta ocupará una superficie de 1365m². (Vidagany Iborra, 2015)

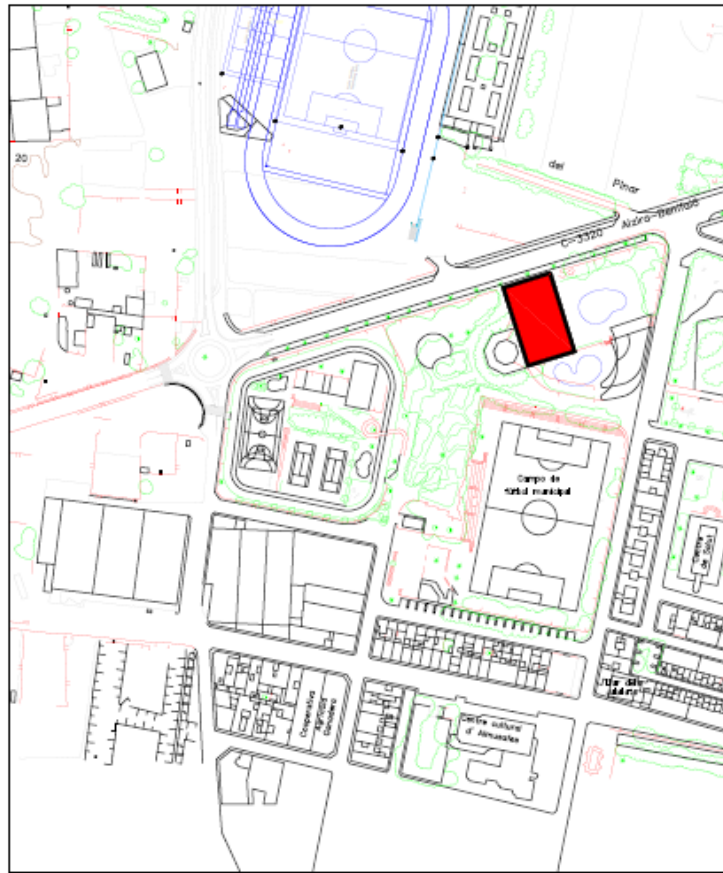


Figura 45. Ubicación del pabellón para piscina cubierta (Vidagany Iborra, 2015)

5.2. ESTUDIO DE SOLUCIONES PARA LA GEOMETRÍA DE LA CERCHA

Las vigas que se usan en el proyecto son del tipo cercha, éstas presentan una configuración que permite ahorrar material y cubrir grandes luces. A continuación, se analizan varios tipos de configuraciones de cerchas con el programa SAP2000, con cargas gravitatorias:

El programa SAP2000 muestra de color rojo los elementos que están trabajando en compresión y de color azul las barras en tracción.

- **Pratt:** Se caracteriza por tener el cordón inferior traccionado y el cordón superior comprimido, los montantes están en compresión y las diagonales en tracción como se indica en la Figura 46.

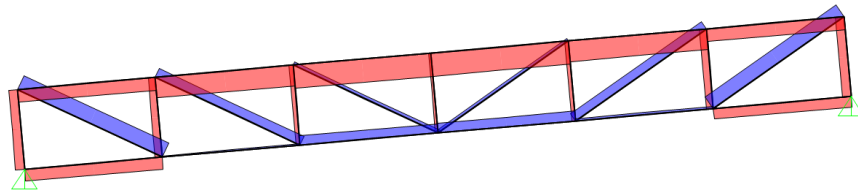


Figura 46. Cercha tipo Pratt

- **Howe:** Presenta una configuración geométrica inversa a la celosía tipo Pratt y a diferencia de ésta las diagonales trabajan a compresión y los montantes a tracción como se aprecia en la Figura 47.

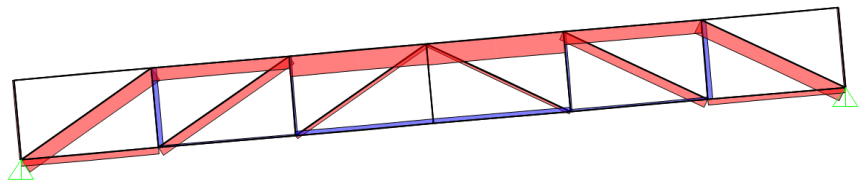


Figura 47. Cercha tipo Howe

- **Warren:** Es una tipología de cercha donde no existen montantes (Figura 48) y a diferencia del tipo Pratt y Howe las diagonales pueden estar comprimidas o traccionadas, esto puede ser una limitante en el proceso constructivo de las cerchas con HMARF, porque se debe tener un especial cuidado para saber cuáles son las diagonales que llevan armadura para controlar la tracción.

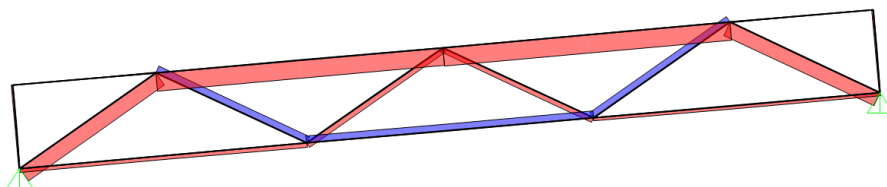


Figura 48. Cercha tipo Warren

- **Cerchas a una sola inclinación:** Se puede considerar una variación de las cerchas tipo Pratt y Howe, en la Figura 49 se destaca que la compresión o tracción que tienen las diagonales varían en función de la mitad la cercha, es decir a la izquierda las diagonales pueden estar traccionadas y a la derecha comprimidas y viceversa, de igual forma sucede con los montantes. Esto podría producir confusiones en la fabricación e instalación de las cerchas.

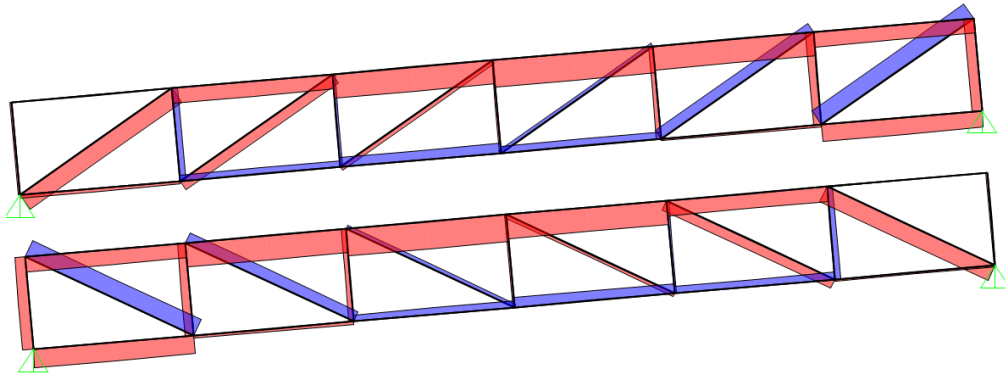


Figura 49. Cerchas a una sola inclinación

- **Vierendel:** A diferencia de las anteriores cerchas en mención los nudos son rígidos mientras que en las otras los nudos son articulados. Como se aprecia en la Figura 50, ésta tipología no posee diagonales y es menos eficaz porque los elementos además de tener esfuerzos normales tienen esfuerzos flectores y sus deformaciones son mayores.

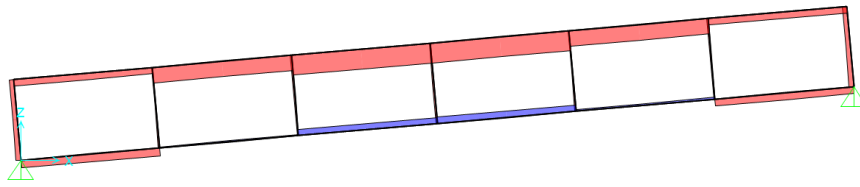


Figura 50. Cercha Vierendel

De los tipos de cerchas enumerados se escoge el tipo Howe, porque de necesitar armadura de refuerzo por cálculo, es más fácil implementar el acero durante el proceso constructivo en los montantes que en las diagonales.

5.3. DISEÑO DE LA CERCHA CON HMAR

5.3.1. Diseño óptimo

Para realizar el diseño óptimo de la cercha del Pabellón deportivo se sigue el procedimiento que se detalla en el diagrama de flujo global que se muestra en la Figura 51, para la ejecución de este se utiliza el software Matlab 2018.

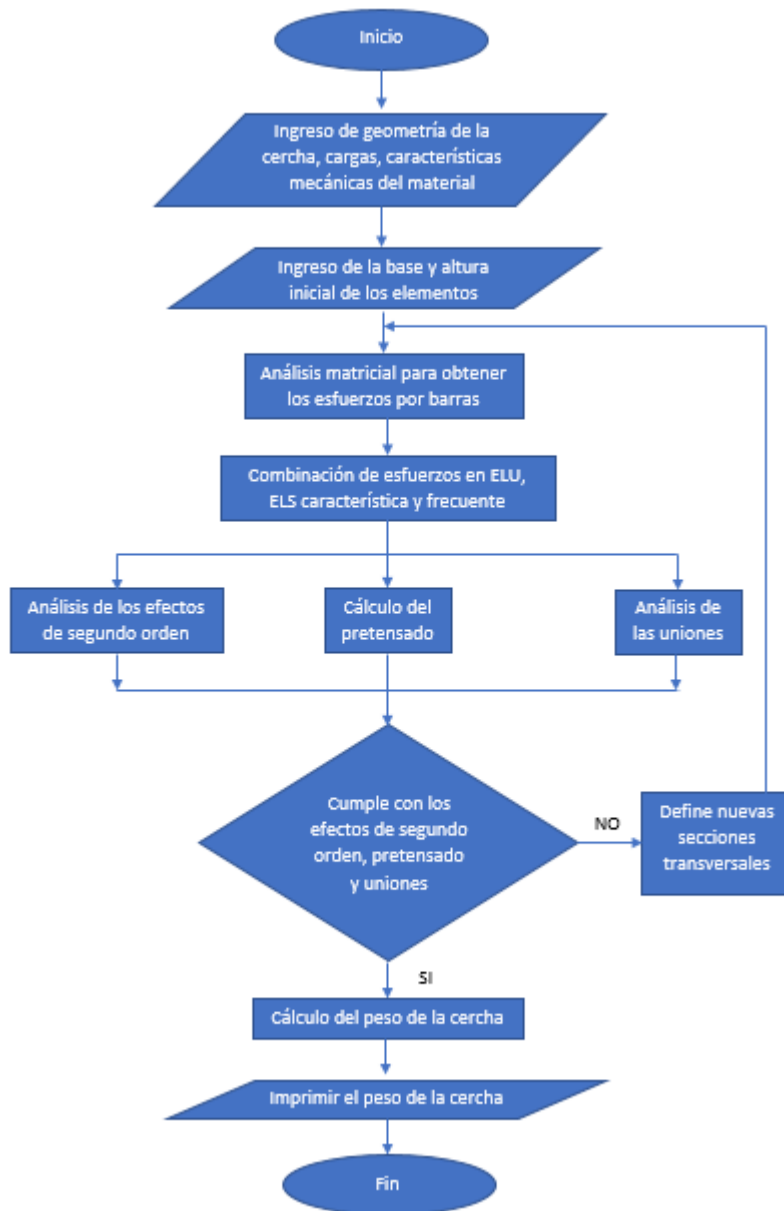


Figura 51. Diagrama de flujo global para el diseño óptimo de la cercha. Fuente: elaboración propia

Para determinar las posibles dimensiones que puede tener la cercha y las secciones de los elementos se toma en cuenta los siguientes aspectos:

- Como punto de partida para obtener la geometría de la cercha se plantea que las diagonales tengan una inclinación entre 30 y 60 grados.
- Las divisiones de los cordones para los cuales se calcula las dimensiones eficaces de la cercha son 8, 10, 12, 14, 16, 20, 22, teniendo cordones de longitud desde 1.34 m hasta 3.68m.

- Se calcula la cercha para diferentes espesores que va desde 0.50m hasta 4.50m con un incremento entre iteración de 0.05m. En la Figura 52 en el eje de las abscisas se tiene la luz de la cercha que es constante y en el eje de las ordenadas se tiene la altura de la cercha la cual es variable durante el proceso de cálculo en la búsqueda de la sección óptima. En la Figura 52 se aprecia cómo se realiza el cálculo iterativo de las cerchas mediante el programa “Matlab”, como punto de partida se tiene una cercha de 0.50m de espesor, en la siguiente iteración la cercha tiene una espesor de 0.55m y de esta forma se procede al análisis cada cercha, aumentando 0.05m en cada iteración hasta llegar a la altura de 4.50m.

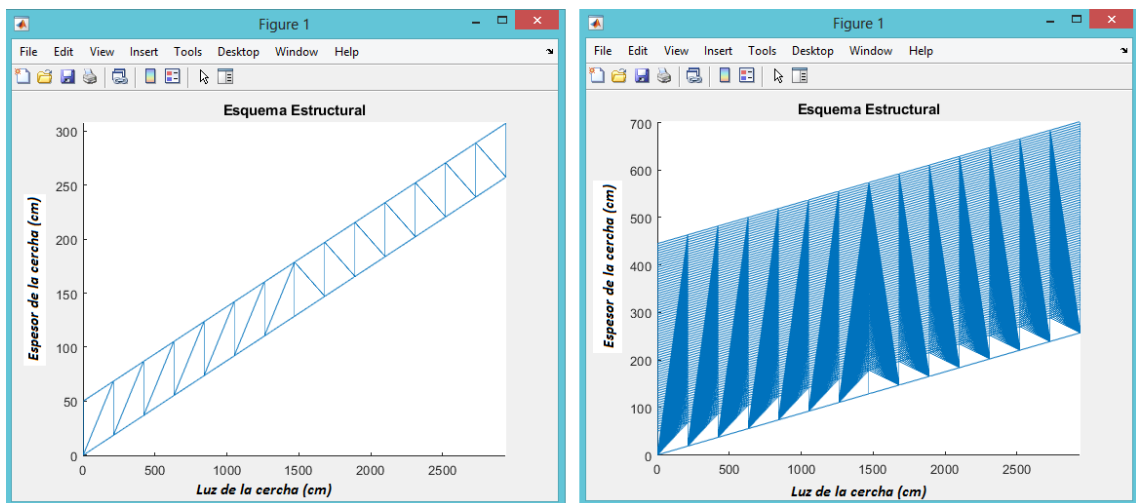


Figura 52. Análisis de la cercha para 14 divisiones. Cercha de espesor 50cm (izquierda) y Cerchas de espesores desde 50cm con incremento de 5cm en cada iteración hasta llegar a 450cm de espesor (derecha)

- Como simplificación tanto para el cálculo como para la construcción de la celosía se plantea que ésta tenga un elemento de sección transversal constante para el cordón inferior, otro para el cordón superior, montante y diagonal, es decir cuatro tipos de secciones por cercha, así se consigue también disminuir el tiempo de cálculo entre iteraciones en Matlab.
- Se genera bases de datos de secciones tentativas para el cordón inferior, superior, montantes y diagonales capaces de resistir las acciones de carga.
- Para obtener los esfuerzos que producen las cargas sobre los elementos se usa el método de cálculo de análisis matricial de estructuras.

- Combinación de esfuerzos en estado límite último (ELU) y en estado límite de servicio (ELS) característico y frecuente para determinar el máximo y mínimo axil como se indica en el **apéndice 2**.
- Se controla que los elemento no tengan efectos de segundo orden con las combinaciones de carga en ELU.
- Dimensionamiento de la armadura activa requerida para contrarrestar las solicitaciones externas en ELS característico y frecuente.
- Determinación de las uniones para la combinación en ELU.
- Mediante un proceso iterativo se busca la sección transversal óptima de cada uno de los elementos, en base a la que genere el menor peso de la estructura y resista las acciones de cálculo (ver los resultados en el **apéndice 2**).

En la Figura 53 se indica la variación de peso que tiene la cercha conforme cambia la altura y número de divisiones de los cordones. Aquellas que poseen menor número de divisiones (8 y 10) al aumentar la altura de la cercha disminuye su peso, no obstante, para las cerchas con mayor número de divisiones (18, 20 y 22) al aumentar el peralte su peso aumenta. En la Figura 53 se aprecia que las cerchas con menor peso son las que están entre la altura de 0.90m a 1.40m.

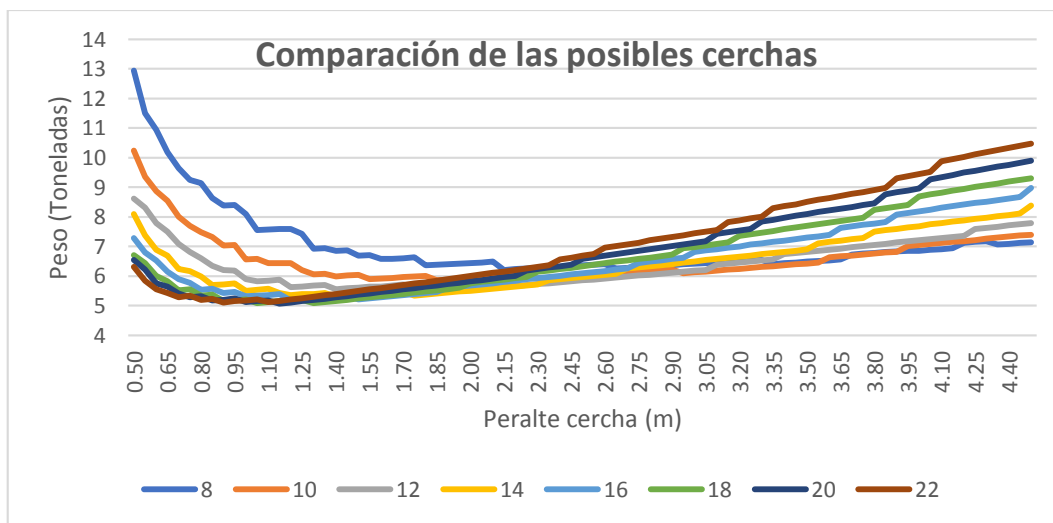


Figura 53. Comparación de los pesos de las posibles cerchas. Fuente: elaboración propia

De los 648 casos de cerchas posibles que se calculan para este tipo de estructura se determina que la óptima es la de altura 1.15m y 20 divisiones en los cordones (longitud del cordón 1.47m), como se indica en la Tabla 19.

Tabla 19. Los 20 tipos de cercha de menor peso calculadas

hcercha (m)	Long. cord (m)	Cordón inferior		Cordón superior		Montante		Diagonal		Peso (T)	Número de divisiones
		b (cm)	h(cm)	b (cm)	h(cm)	b (cm)	h(cm)	b (cm)	h(cm)		
1.15	1.47	24	10	24	10	10	10	10	10	5.06	20
1.05	1.63	24	10	24	11	10	10	10	10	5.08	18
1.30	1.63	24	10	24	10	10	10	10	10	5.08	18
1.20	1.47	24	10	24	10	10	10	10	10	5.11	20
0.90	1.34	24	10	24	11	10	10	10	10	5.11	22
1.10	1.34	24	10	24	10	10	10	10	10	5.11	22
1.10	1.63	24	10	24	11	10	10	10	10	5.11	18
1.00	1.47	24	10	24	11	10	10	10	10	5.12	20
1.35	1.63	24	10	24	10	10	10	10	10	5.12	18
0.90	1.63	24	10	24	12	10	10	10	10	5.15	18
1.25	1.47	24	10	24	10	10	10	10	10	5.15	20
1.15	1.63	24	10	24	11	10	10	10	10	5.15	18
0.95	1.34	24	10	24	11	10	10	10	10	5.15	22
1.20	1.63	24	10	26	10	10	10	10	10	5.16	18
1.05	1.47	24	10	24	11	10	10	10	10	5.16	20
1.15	1.34	24	10	24	10	10	10	10	10	5.16	22
1.40	1.63	24	10	24	10	10	10	10	10	5.16	18
1.00	1.34	24	10	26	10	10	10	10	10	5.17	22
1.10	1.47	24	10	26	10	10	10	10	10	5.17	20
0.85	1.47	24	10	24	12	10	10	10	10	5.18	20

De la Tabla 19 se destaca que la mejor sección para éste análisis es de 24x10cm en el cordón inferior, 24x10cm y 24x11cm en el cordón superior, 10x10cm en los montantes y diagonales.

Para indicar el proceso de análisis en uso para el cálculo del pretensado, efectos de segundo orden y las uniones, en los siguientes ítems se muestra los resultados sólo de la cercha óptima (altura 1.15m y 20 divisiones del cordón).

5.3.2. Pretensado

Para el diseño de los cordones se utiliza armadura activa pretesa para contrarrestar los esfuerzos que producen las cargas.

Para el cálculo de la fuerza de tesado se parte de las fórmulas:

$$\sigma_{c1,max} = \frac{P_{max} + P_{max,car}}{A} + \frac{P_{max}(e_0) + M_{max,car}}{I} * V_1 \leq 0.60 * f_{ck}$$

$$\sigma_{c2,min} = \frac{P_{min} + P_{max,frec}}{A} + \frac{P_{min}(e_0) + M_{max,frec}}{I} * V_2 \geq -f_{ckt}$$

$$\sigma_{c1,min} = \frac{P_{min} + P_{min,frec}}{A} + \frac{P_{min}(e_0) + M_{min,frec}}{I} * V_1 \geq -f_{ckt}$$

$$\sigma_{c2,max} = \frac{P_{max} + P_{min,car}}{A} + \frac{P_{max}(e_0) + M_{min,car}}{I} * V_2 \leq 0.60 * f_{ck}$$

Donde:

P_{max} = Fuerza máxima de tesado

P_{min} = Fuerza mínima de tesado

$P_{max,car}$ y $P_{min,car}$

= Esfuerzo máximo y mínimo axil de la combinación ELS característica

$P_{max,fre}$ y $P_{min,fre}$

= Esfuerzo máximo y mínimo axil de la combinación ELS frecuente

$M_{max,car}$, $M_{min,car}$, $M_{max,frec}$, $M_{min,frec}$ = Para el diseño de los cordones se toman los esfuerzos flectores igual a cero debido a que las uniones entre elementos son articulaciones.

e_0 = Al pasar el trazado del cable por el cdg de la pieza la excentricidad es cero.

A , I = Área e inercia del elemento de hormigón.

f_{ck} = Resistencia característica del hormigón a compresión

f_{ckt} = Resistencia característica del hormigón a tracción

Sabiendo que:

$$P_{k,sup} = r_{sup} * (P_{m0,max} - \Delta P_i) = P_{max}$$

$$P_{k,inf} = r_{inf} * (P_{m0,min} - \Delta P_i - \Delta P_{c+r+s}) = P_{min}$$

$$\Delta P_i = \frac{P_i}{P_{m0}}$$

$$\Delta P_{c+r+s} = \frac{P_{c+r+s}}{P_{m0}}$$

Entonces:

$$\sigma_{c1,max} = \frac{r_{sup} * (P_{m0,max} - \Delta P_i) + P_{max,car}}{A} \leq 0.60 * f_{ck}$$

$$\sigma_{c2,min} = \frac{r_{inf} * (P_{m0,min} - \Delta P_i - \Delta P_{c+r+s}) + P_{max,frec}}{A} \geq -f_{ckt}$$

$$\sigma_{c1,min} = \frac{r_{inf} * (P_{m0,min} - \Delta P_i - \Delta P_{c+r+s}) + P_{min,frec}}{A} \geq -f_{ckt}$$

$$\sigma_{c2,max} = \frac{r_{sup} * (P_{m0,max} - \Delta P_i) + P_{min,car}}{A} \leq 0.60 * f_{ck}$$

Se calcula que la transferencia de la fuerza de tesado para los 7 días, en la Tabla 20 se muestra las limitaciones tensionales para el caso del tesado y servicio de los elementos.

Tabla 20. Limitaciones tensionales en tesado y servicio del hormigón

Tesado	
σci (MPa)	-7.92
σcs (MPa)	69.03
Servicio	
σci (MPa)	-8.00
σcs (MPa)	90.00

En la Tabla 21 se indica los cálculos del área, inercia y las combinaciones de esfuerzos axiales en ELS característico y frecuente del cordón inferior.

Tabla 21. Características de elemento del cordón inferior y sus correspondientes esfuerzos

Long. Cercha (m)	Sección transversal							Comb. Característica		Comb. Frecuente	
	b(m)	h(m)	V1(m)	V2(m)	A(m2)	I(m4)	ep(m)	Nmax(KN)	Nmin(KN)	Nmax(KN)	Nmin(KN)
0.00	0.24	0.10									
1.47	0.24	0.10	0.05	-0.05	2.40E-02	2.00E-05	0	47.96	469.03	196.60	355.15
2.94	0.24	0.10	0.05	-0.05	2.40E-02	2.00E-05	0	33.92	317.15	133.69	240.15
4.41	0.24	0.10	0.05	-0.05	2.40E-02	2.00E-05	0	21.45	183.14	78.13	138.68
5.88	0.24	0.10	0.05	-0.05	2.40E-02	2.00E-05	0	10.54	67.00	29.93	50.74
7.35	0.24	0.10	0.05	-0.05	2.40E-02	2.00E-05	0	-31.27	1.18	-23.68	-10.92
8.82	0.24	0.10	0.05	-0.05	2.40E-02	2.00E-05	0	-111.67	-6.61	-84.56	-44.41
10.29	0.24	0.10	0.05	-0.05	2.40E-02	2.00E-05	0	-174.21	-12.85	-131.91	-70.54
11.76	0.24	0.10	0.05	-0.05	2.40E-02	2.00E-05	0	-218.88	-17.53	-165.74	-89.32
13.23	0.24	0.10	0.05	-0.05	2.40E-02	2.00E-05	0	-245.68	-20.65	-186.03	-100.75
14.70	0.24	0.10	0.05	-0.05	2.40E-02	2.00E-05	0	-254.62	-22.21	-192.79	-104.82
16.17	0.24	0.10	0.05	-0.05	2.40E-02	2.00E-05	0	-254.62	-22.21	-192.79	-104.82
17.64	0.24	0.10	0.05	-0.05	2.40E-02	2.00E-05	0	-245.68	-22.22	-186.03	-101.53
19.11	0.24	0.10	0.05	-0.05	2.40E-02	2.00E-05	0	-218.88	-20.66	-165.74	-90.89
20.58	0.24	0.10	0.05	-0.05	2.40E-02	2.00E-05	0	-174.21	-17.54	-131.91	-72.89
22.05	0.24	0.10	0.05	-0.05	2.40E-02	2.00E-05	0	-111.67	-12.87	-84.56	-47.54
23.52	0.24	0.10	0.05	-0.05	2.40E-02	2.00E-05	0	-31.27	-6.64	-23.68	-14.83
24.99	0.24	0.10	0.05	-0.05	2.40E-02	2.00E-05	0	1.15	67.00	25.24	50.74
26.46	0.24	0.10	0.05	-0.05	2.40E-02	2.00E-05	0	10.50	183.14	72.66	138.68
27.93	0.24	0.10	0.05	-0.05	2.40E-02	2.00E-05	0	21.41	317.15	127.43	240.15
29.40	0.24	0.10	0.05	-0.05	2.40E-02	2.00E-05	0	33.88	469.03	189.56	355.15

Determinación de los límites superior e inferior de la fuerza de tesado, para el estado de tesado a los 7 días y en estado de servicio como se indica en la Tabla 22.

Tabla 22. Cálculo de los límites superior e inferior de la fuerza de tesado del cordón inferior

Tesar				Servicio				Resumen	
Pmax,c1(KN)	Pmax,c2(KN)	Pmin,c1(KN)	Pmin,c2(KN)	Pmax,c1(KN)	Pmax,c2(KN)	Pmin,c1(KN)	Pmin,c2(KN)	Pkmin(KN)	Pkmax(KN)
1681.81	1136.12	-202.07	-7.92	2207.93	1617.53	-199.78	-5.63	-5.63	1136.12
1696.48	1281.40	-61.25	69.12	2222.60	1762.81	-58.96	71.40	71.40	1281.40
1709.52	1409.59	63.01	137.15	2235.64	1891.00	65.30	139.43	139.43	1409.59
1720.93	1520.68	170.69	196.17	2247.05	2002.10	172.98	198.46	198.46	1520.68
1764.63	1583.65	246.19	261.81	2290.75	2065.06	248.48	264.10	264.10	1583.65
1848.69	1591.10	287.20	336.36	2374.81	2072.52	289.49	338.65	338.65	1591.10
1914.06	1597.07	319.20	394.35	2440.18	2078.49	321.49	396.64	396.64	1597.07
1960.76	1601.55	342.20	435.77	2486.88	2082.96	344.49	438.05	438.05	1601.55
1988.78	1604.53	356.19	460.62	2514.90	2085.95	358.47	462.90	462.90	1604.53
1998.12	1606.03	361.17	468.90	2524.24	2087.44	363.46	471.19	471.19	1606.03
1998.12	1606.03	361.17	468.90	2524.24	2087.44	363.46	471.19	471.19	1606.03
1988.78	1606.03	357.14	460.62	2514.90	2087.44	359.43	462.90	462.90	1606.03
1960.76	1604.54	344.11	435.77	2486.88	2085.96	346.40	438.05	438.05	1604.54
1914.06	1601.56	322.07	394.35	2440.18	2082.98	324.36	396.64	396.64	1601.56
1848.69	1597.09	291.03	336.36	2374.81	2078.51	293.32	338.65	338.65	1597.09
1764.63	1591.13	250.98	261.81	2290.75	2072.54	253.26	264.10	264.10	1591.13
1730.74	1520.68	170.69	201.92	2256.86	2002.10	172.98	204.20	204.20	1520.68
1720.96	1409.59	63.01	143.85	2247.09	1891.00	65.30	146.14	146.14	1409.59
1709.56	1281.40	-61.25	76.78	2235.68	1762.81	-58.96	79.07	79.07	1281.40
1696.53	1136.12	-202.07	0.70	2222.65	1617.53	-199.78	2.99	2.99	1136.12

Una vez se determina el valor de la fuerza de tesado se elige el tipo de cordón y se comprueba que esté acorde a las solicitaciones requeridas (Tabla 23).

Tabla 23. Fuerza de tesado y elección de los cordones del cordón inferior de la cercha

Fuerza de tesado		Elección de los cordones					
Pm0(KN)	Pmax(KN)	Ap(mm2)	n cordones	Ap,cord(mm2)	∅ cordón (mm)	Ap,real(mm2)	Comp.Ap
471.14	517.10	370.68	4.00	98.70	12.70	394.80	OK

5.3.2.1. Pérdidas instantáneas

Son aquellas que se producen desde el momento del tesado hasta la transferencia de la fuerza al hormigón. A continuación, se indica las pérdidas consideradas en el diseño de los elementos:

- *Penetración de cuñas:* En cordones pretesos se usa la siguiente expresión según la EHE-08:

$$\Delta P_2 = \frac{a}{L} * E_p * A_p$$

Donde:

a = 6mm

L = 31m

$E_p = 190000\text{MPa}$

$A_p = \text{Área de la armadura activa.}$

- *Relajación a temperatura ambiente hasta la transferencia y relación adicional de la armadura debida, en su caso, al proceso de calefacción:* Según la norma EHE-08 a falta de información facilitada por el fabricante se puede adoptar como suma de las pérdidas el valor de la relajación a las 10^6 horas a 20°C .
- *Dilatación térmica de la armadura debido al proceso de calefacción:* Se usa la siguiente ecuación de la EHE-08 para su cálculo:

$$\Delta P = K * \alpha * E_p * (T_{max} - T_a)$$

Donde:

K = Es un coeficiente experimental que se determina en fábrica, a falta de ensayos se puede usar 0,50

α = Coeficiente de dilatación térmica de la armadura activa. Se usa el valor de 0.000012

T_{max} = Temperatura máxima en $^\circ\text{C}$ alcanzada durante el curado térmico. Se va a alcanzar la temperatura máxima de 90°C .

T_a = Temperatura media en $^\circ\text{C}$ del ambiente durante la fabricación. Se usa el valor de 20°C .

El valor de las pérdidas por dilatación térmica de la armadura debido al proceso de calefacción es igual **0.08 KN**

- *Retracción anterior a la transferencia:* Al realizar el tratamiento térmico en elementos prefabricados la retracción es despreciable.

- *Acortamiento elástico instantáneo al transferir:* Cuando las armaduras pretensas se liberan de sus anclajes, puede valorarse teniendo en cuenta la deformación instantánea que se produce en el hormigón en el centro de gravedad de las armaduras activas, mediante la fórmula (EHE-08, 2011):

$$\Delta P, \text{acort elást} = \sigma_{cp} * \frac{A_p * E_p}{E_{cj}}$$

Donde:

σ_{cp} = Tensión en el hormigón en la fibra correspondiente al centro de gravedad de las armaduras activas debida a la acción del pretensado, peso propio y la carga muerta.

En la Tabla 24 se aprecia los valores de las pérdidas instantáneas debido a la penetración de cuñas, al acortamiento elástico y la sumatoria de las tres pérdidas instantáneas que influyen en el diseño del pretensado.

Tabla 24. Cálculo de las pérdidas instantáneas del cordón inferior

Pérdidas Instantáneas				
Cuñas	Acortamiento elástico		ΔP_i (KN)	% ΔP_i (KN)
ΔP_2 (KN)	σ_{cp} (KN/m ²)	ΔP_{el} (KN)		
14.52	20942.14	31.42	46.02	8.90%

5.3.2.2. Pérdidas Diferidas

Son las cuales se producen después de la transferencia de la fuerza de tesado al hormigón, son producto de los fenómenos de retracción (s) y fluencia (c) que experimenta el hormigón a lo largo del tiempo, y de la relajación (r) del acero de las armaduras activas. Se calcula mediante la siguiente expresión:

$$\Delta P_{c+s+r} = A_p * \Delta \sigma_{p,c+s+r}$$

$$\Delta \sigma_{p,c+s+r} = \frac{\varepsilon_{cs} * E_p + 0.8 * \Delta \sigma_{pr} + \frac{E_p}{E_{cm}} * \varphi(t, t_0) * \sigma_{c,QP}}{1 + \frac{E_p}{E_{cm}} * \frac{A_p}{A_c} * \left(1 + \frac{A_c}{I_c} * Zcp^2\right) * (1 + 0.8 * \varphi(t, t_0))}$$

(UNE-EN 1992-1-1, 2016)

Donde:

$\Delta\sigma_{p,c+s+r}$ = Valor absoluto de la variación de la tensión de la armadura activa por c
+ r + s

ϵ_{cs} = Deformación de retracción = 0.00

E_p = Módulo de elasticidad de la armadura activa = 190000MPa

E_{cm} = Módulo de deformación del hormigón = 50000MPa

$\Delta\sigma_{pr}$ = Valor absoluto de la variación en la armadura activa debido a la relajación del acero

$\varphi(t, t_0)$ = Coeficiente de fluencia = 0.20

$\Delta_{c,QP}$ = Tensión en el hormigón a la armadura activa debido al peso propio, al pretensado inicial y a otras acciones cuasi-permanentes relevantes.

A_p = Área de la armadura activa

A_c e I_c = Área e inercia de la sección de homigón

Z_{cp} = Distancia entre el cdg de la sección de hormigón y la armadura activa

En la Tabla 25 se muestra el porcentaje de pérdidas que va a tener el elemento a lo largo del tiempo.

Tabla 25. Cálculo de las pérdidas diferidas del cordón inferior

Pérdidas diferidas			
$\sigma_{cp,Q}$ (KN/m ²)	$\Delta\sigma_{pr}$ (KN/m ²)	ΔP_{c+s+r} (KN)	% ΔP_{c+s+r} (KN)
19630.71	71601.38	26.58	5.64%

5.3.2.3. Comprobación de tensiones

Se realiza la comprobación de las tensiones en el elemento como se muestra en la Tabla 26 y Tabla 27 con las siguientes fórmulas:

$$\sigma_{c1,max} = \frac{P + P_{max,car}}{A} \leq 0.60 * f_{ck}$$

$$\sigma_{c2,min} = \frac{P + P_{max,frec}}{A} \geq -f_{ckt}$$

$$\sigma_{c1,min} = \frac{P + P_{min,frec}}{A} \geq -f_{ckt}$$

$$\sigma_{c2,max} = \frac{P + P_{min,car}}{A} \leq 0.60 * f_{ck}$$

Se parte de los esfuerzos axiales, la fuerza de tesado y de las pérdidas para el cálculo de las tensiones en los elementos.

Tabla 26. Comprobación de tensiones en el instante del tesado del cordón inferior

Long. Cercha (m)	Tesar							
	σc1max (MPa)		σc2max (MPa)		σc1min (MPa)		σc2min (MPa)	
1.47	31.21	CUMPLE	33.18	CUMPLE	33.18	CUMPLE	31.21	CUMPLE
2.94	27.14	CUMPLE	29.11	CUMPLE	29.11	CUMPLE	27.14	CUMPLE
4.41	23.56	CUMPLE	25.52	CUMPLE	25.52	CUMPLE	23.56	CUMPLE
5.88	20.44	CUMPLE	22.41	CUMPLE	22.41	CUMPLE	20.44	CUMPLE
7.35	17.81	CUMPLE	19.77	CUMPLE	19.77	CUMPLE	17.81	CUMPLE
8.82	15.66	CUMPLE	17.62	CUMPLE	17.62	CUMPLE	15.66	CUMPLE
10.29	13.98	CUMPLE	15.95	CUMPLE	15.95	CUMPLE	13.98	CUMPLE
11.76	12.79	CUMPLE	14.75	CUMPLE	14.75	CUMPLE	12.79	CUMPLE
13.23	12.07	CUMPLE	14.03	CUMPLE	14.03	CUMPLE	12.07	CUMPLE
14.70	11.83	CUMPLE	13.79	CUMPLE	13.79	CUMPLE	11.83	CUMPLE
16.17	11.83	CUMPLE	13.79	CUMPLE	13.79	CUMPLE	11.83	CUMPLE
17.64	12.07	CUMPLE	14.03	CUMPLE	14.03	CUMPLE	12.07	CUMPLE
19.11	12.79	CUMPLE	14.75	CUMPLE	14.75	CUMPLE	12.79	CUMPLE
20.58	13.98	CUMPLE	15.95	CUMPLE	15.95	CUMPLE	13.98	CUMPLE
22.05	15.66	CUMPLE	17.62	CUMPLE	17.62	CUMPLE	15.66	CUMPLE
23.52	17.81	CUMPLE	19.77	CUMPLE	19.77	CUMPLE	17.81	CUMPLE
24.99	20.44	CUMPLE	22.41	CUMPLE	22.41	CUMPLE	20.44	CUMPLE
26.46	23.56	CUMPLE	25.52	CUMPLE	25.52	CUMPLE	23.56	CUMPLE
27.93	27.14	CUMPLE	29.11	CUMPLE	29.11	CUMPLE	27.14	CUMPLE
29.40	31.21	CUMPLE	33.18	CUMPLE	33.18	CUMPLE	31.21	CUMPLE

Tabla 27. Comprobación de tensiones en el estado de servicio del cordón inferior

Long. Cercha (m)	Servicio							
	σ_{c1max} (MPa)		σ_{c2max} (MPa)		σ_{c1min} (MPa)		σ_{c2min} (MPa)	
1.47	31.81	CUMPLE	35.00	CUMPLE	35.00	CUMPLE	27.89	CUMPLE
2.94	27.93	CUMPLE	30.34	CUMPLE	30.34	CUMPLE	25.27	CUMPLE
4.41	24.50	CUMPLE	26.23	CUMPLE	26.23	CUMPLE	22.96	CUMPLE
5.88	21.52	CUMPLE	22.67	CUMPLE	22.67	CUMPLE	20.95	CUMPLE
7.35	19.68	CUMPLE	19.65	CUMPLE	19.65	CUMPLE	18.71	CUMPLE
8.82	19.18	CUMPLE	17.19	CUMPLE	17.19	CUMPLE	16.18	CUMPLE
10.29	18.78	CUMPLE	15.27	CUMPLE	15.27	CUMPLE	14.20	CUMPLE
11.76	18.49	CUMPLE	13.90	CUMPLE	13.90	CUMPLE	12.80	CUMPLE
13.23	18.30	CUMPLE	13.08	CUMPLE	13.08	CUMPLE	11.95	CUMPLE
14.70	18.22	CUMPLE	12.80	CUMPLE	12.80	CUMPLE	11.67	CUMPLE
16.17	18.22	CUMPLE	12.80	CUMPLE	12.80	CUMPLE	11.67	CUMPLE
17.64	18.24	CUMPLE	13.08	CUMPLE	13.08	CUMPLE	11.95	CUMPLE
19.11	18.36	CUMPLE	13.90	CUMPLE	13.90	CUMPLE	12.80	CUMPLE
20.58	18.59	CUMPLE	15.27	CUMPLE	15.27	CUMPLE	14.20	CUMPLE
22.05	18.92	CUMPLE	17.19	CUMPLE	17.19	CUMPLE	16.18	CUMPLE
23.52	19.36	CUMPLE	19.65	CUMPLE	19.65	CUMPLE	18.71	CUMPLE
24.99	21.29	CUMPLE	22.67	CUMPLE	22.67	CUMPLE	20.75	CUMPLE
26.46	24.22	CUMPLE	26.23	CUMPLE	26.23	CUMPLE	22.73	CUMPLE
27.93	27.61	CUMPLE	30.34	CUMPLE	30.34	CUMPLE	25.01	CUMPLE
29.40	31.46	CUMPLE	35.00	CUMPLE	35.00	CUMPLE	27.60	CUMPLE

Para contrarrestar los esfuerzos que produce el viento en el cordón superior se necesita colocar acero pretensado, con este fin se calcula de forma análoga que en el cordón inferior el pretensado que requiere el elemento y se indica en la Tabla 28

Tabla 28. Fuerza de tesado, cordones y pérdidas instantáneas y diferidas del cordón superior

Fuerza de tesado		Elección de los cordones				%ΔPi(KN)	%ΔPc+s+r (KN)
Pm0(KN)	Pmax(KN)	Ap(mm2)	n cordones	Ap,cord(mm2)	∅ cordón (mm)		
227.27	241.93	173.43	2.00	98.70	12.70	6.06%	5.24%

5.3.3. Análisis de los efectos de segundo orden

Al trabajar con un material como el HMAR es normal que los elementos se vean afectados por los efectos de segundo orden, puesto que con este material se consigue dimensionar elementos de sección transversal pequeña comparado con un hormigón tradicional.

Para controlar los efectos de segundo orden sin la colaboración del refuerzo de acero corrugado en los elementos, se disminuye la capacidad resistente del elemento según lo estipula el Documento Básico de Seguridad Estructural para Acero, para el caso de resistencia de las barras. Se sigue el siguiente procedimiento:

- Cálculo de la compresión crítica por pandeo

$$N_{cr} = \left(\frac{\pi}{L_k}\right)^2 * E * I$$

Donde:

E = Módulo de elasticidad

I = Momento de inercia de la sección para flexión en el plano considerado

L_k = Longitud de pandeo de la pieza de la Tabla 29 para este caso se usa 1.0L

Tabla 29. Longitud de pandeo de barras canónicas (DBSE-AE, 2017)

Condiciones de extremo	biarticulada	biempotrada	empotrada articulada	biempotrada desplazable	en ménsula
Longitud L_k	1,0 L	0,5 L	0,7 L	1,0 L	2,0 L

- Determinación de la esbeltez reducida

$$\lambda = \sqrt{\frac{A * f_y}{N_{cr}}}$$

Donde:

A = Área de la sección transversal

f_y = Por tratarse del diseño a compresión se usa el valor de 150 MPa del HMAR

- Coeficiente de reducción de pandeo χ

$$\chi = \frac{1}{\phi + \sqrt{\phi^2 - (\lambda_k)^2}} \leq 1$$

Donde:

$$\phi = 0.5 * [1 + \alpha * (\lambda_k - 0.2) + \lambda_k^2]$$

α = Coeficiente de imperfección elástica, para este caso 0.49.

- Capacidad de pandeo por flexión, en compresión centrada de una barra de sección constante

$$N_{b,Rd} = \chi * A * f_{yd}$$

Donde:

$$f_{yd} = \frac{f_y}{\gamma_c} * \alpha_{cc} = 85 \text{ MPa}$$

- Se verifica que $N_{b,Rd} > N_d$, si cumple la condición la sección no tiene efectos de segundo orden.

Donde:

N_d = Axil de diseño de la combinación en ELU.

En la Tabla 30 se comprueba que los elementos del cordón inferior no tengan efectos de segundo orden.

Tabla 30. Análisis de los efectos de segundo orden del cordón inferior

L. cercha (m)	b(m)	h(m)	A (m2)	I(m4)	Ncr(KN)	λ	ϕ	χ	Nb,Rd (KN)	Nmax (KN)	Comprob.
0.00											
1.47	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	651.76	OK
2.94	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	440.71	OK
4.41	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	254.49	OK
5.88	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	93.11	OK
7.35	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	13.28	OK
8.82	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	31.18	OK
10.29	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	44.84	OK
11.76	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	54.26	OK
13.23	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	59.44	OK
14.70	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	60.39	OK
16.17	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	60.39	OK
17.64	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	57.10	OK
19.11	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	49.57	OK
20.58	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	37.80	OK
22.05	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	21.79	OK
23.52	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	1.55	OK
24.99	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	93.11	OK
26.46	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	254.49	OK
27.93	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	440.71	OK
29.40	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	651.76	OK

En la Tabla 31 se comprueba que los elementos del cordón superior no tengan efectos de segundo orden.

Tabla 31. Análisis de los efectos de segundo orden del cordón superior

L. cercha (m)	b(m)	h(m)	A (m2)	I(m4)	Ncr(KN)	λ	ϕ	χ	Nb,Rd (KN)	Nmax (KN)	Comprob.
0.00											
1.47	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	0.00	OK
2.94	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	235.87	OK
4.41	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	446.92	OK
5.88	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	633.13	OK
7.35	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	794.52	OK
8.82	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	931.08	OK
10.29	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	1042.81	OK
11.76	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	1129.71	OK
13.23	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	1191.78	OK
14.70	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	1229.02	OK
16.17	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	1229.02	OK
17.64	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	1191.78	OK
19.11	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	1129.71	OK
20.58	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	1042.81	OK
22.05	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	931.08	OK
23.52	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	794.52	OK
24.99	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	633.13	OK
26.46	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	446.92	OK
27.93	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	235.87	OK
29.40	0.24	0.10	0.0240	2.00E-05	4567.36	0.89	1.06	0.61	1238.98	0.59	OK

En la Tabla 32 se comprueba que los elementos del montante no tengan efectos de segundo orden.

Tabla 32. Análisis de los efectos de segundo orden del montante

L. cercha (m)	b(m)	h(m)	A (m2)	I(m4)	Ncr(KN)	λ	ϕ	χ	Nb,Rd (KN)	Nmax (KN)	Comprob.
0.00	0.10	0.10	0.0100	8.33E-06	3109.52	0.69	0.86	0.73	618.85	14.00	OK
1.47	0.10	0.10	0.0100	8.33E-06	3109.52	0.69	0.86	0.73	618.85	23.41	OK
2.94	0.10	0.10	0.0100	8.33E-06	3109.52	0.69	0.86	0.73	618.85	18.95	OK
4.41	0.10	0.10	0.0100	8.33E-06	3109.52	0.69	0.86	0.73	618.85	14.49	OK
5.88	0.10	0.10	0.0100	8.33E-06	3109.52	0.69	0.86	0.73	618.85	10.03	OK
7.35	0.10	0.10	0.0100	8.33E-06	3109.52	0.69	0.86	0.73	618.85	5.58	OK
8.82	0.10	0.10	0.0100	8.33E-06	3109.52	0.69	0.86	0.73	618.85	1.12	OK
10.29	0.10	0.10	0.0100	8.33E-06	3109.52	0.69	0.86	0.73	618.85	0.00	OK
11.76	0.10	0.10	0.0100	8.33E-06	3109.52	0.69	0.86	0.73	618.85	3.34	OK
13.23	0.10	0.10	0.0100	8.33E-06	3109.52	0.69	0.86	0.73	618.85	7.80	OK
14.70	0.10	0.10	0.0100	8.33E-06	3109.52	0.69	0.86	0.73	618.85	12.26	OK
16.17	0.10	0.10	0.0100	8.33E-06	3109.52	0.69	0.86	0.73	618.85	16.72	OK
17.64	0.10	0.10	0.0100	8.33E-06	3109.52	0.69	0.86	0.73	618.85	21.18	OK
19.11	0.10	0.10	0.0100	8.33E-06	3109.52	0.69	0.86	0.73	618.85	25.64	OK
20.58	0.10	0.10	0.0100	8.33E-06	3109.52	0.69	0.86	0.73	618.85	14.00	OK
22.05	0.10	0.10	0.0100	8.33E-06	3109.52	0.69	0.86	0.73	618.85	15.00	OK
23.52	0.10	0.10	0.0100	8.33E-06	3109.52	0.69	0.86	0.73	618.85	16.00	OK
24.99	0.10	0.10	0.0100	8.33E-06	3109.52	0.69	0.86	0.73	618.85	17.00	OK
26.46	0.10	0.10	0.0100	8.33E-06	3109.52	0.69	0.86	0.73	618.85	18.00	OK
27.93	0.10	0.10	0.0100	8.33E-06	3109.52	0.69	0.86	0.73	618.85	19.00	OK
29.40	0.10	0.10	0.0100	8.33E-06	3109.52	0.69	0.86	0.73	618.85	20.00	OK

En la Tabla 33 se comprueba que los elementos de las diagonales no tengan efectos de segundo orden.

Tabla 33. Análisis de los efectos de segundo orden de las diagonales

L. cercha (m)	b(m)	h(m)	A (m2)	I(m4)	Ncr(KN)	λ	ϕ	χ	Nb,Rd (KN)	Nmax (KN)	Comprob.
0.00											
1.47	0.100	0.100	0.0100	8.33E-06	1180.55	1.13	1.36	0.47	399.48	311.43	OK
2.94	0.100	0.100	0.0100	8.33E-06	1180.55	1.13	1.36	0.47	399.48	278.64	OK
4.41	0.100	0.100	0.0100	8.33E-06	1180.55	1.13	1.36	0.47	399.48	245.86	OK
5.88	0.100	0.100	0.0100	8.33E-06	1180.55	1.13	1.36	0.47	399.48	213.08	OK
7.35	0.100	0.100	0.0100	8.33E-06	1180.55	1.13	1.36	0.47	399.48	180.30	OK
8.82	0.100	0.100	0.0100	8.33E-06	1180.55	1.13	1.36	0.47	399.48	147.52	OK
10.29	0.100	0.100	0.0100	8.33E-06	1180.55	1.13	1.36	0.47	399.48	114.74	OK
11.76	0.100	0.100	0.0100	8.33E-06	1180.55	1.13	1.36	0.47	399.48	81.95	OK
13.23	0.100	0.100	0.0100	8.33E-06	1180.55	1.13	1.36	0.47	399.48	49.17	OK
14.70	0.100	0.100	0.0100	8.33E-06	1180.55	1.13	1.36	0.47	399.48	16.39	OK
16.17	0.100	0.100	0.0100	8.33E-06	1180.55	1.13	1.36	0.47	399.48	15.06	OK
17.64	0.100	0.100	0.0100	8.33E-06	1180.55	1.13	1.36	0.47	399.48	45.18	OK
19.11	0.100	0.100	0.0100	8.33E-06	1180.55	1.13	1.36	0.47	399.48	75.30	OK
20.58	0.100	0.100	0.0100	8.33E-06	1180.55	1.13	1.36	0.47	399.48	105.42	OK
22.05	0.100	0.100	0.0100	8.33E-06	1180.55	1.13	1.36	0.47	399.48	135.53	OK
23.52	0.100	0.100	0.0100	8.33E-06	1180.55	1.13	1.36	0.47	399.48	165.65	OK
24.99	0.100	0.100	0.0100	8.33E-06	1180.55	1.13	1.36	0.47	399.48	195.77	OK
26.46	0.100	0.100	0.0100	8.33E-06	1180.55	1.13	1.36	0.47	399.48	225.89	OK
27.93	0.100	0.100	0.0100	8.33E-06	1180.55	1.13	1.36	0.47	399.48	256.01	OK
29.40	0.100	0.100	0.0100	8.33E-06	1180.55	1.13	1.36	0.47	399.48	286.13	OK

5.3.4. Uniones

Una de las partes fundamentales de la cercha sin duda son las uniones entre los cordones con los montantes y diagonales. Con la premisa que el tipo de cercha que se propone para este proyecto es un elemento que se debe ensamblar en fábrica o trasladar por piezas y ensamblar in situ de una forma rápida y sencilla, para que se considere una fabricación industrializada, con este fin se indaga en investigaciones y proyectos existentes, de los cuales se decide implementar la unión que emplea José Pedrós para su proyecto de fin de carrera. Éstas uniones fueron investigadas por la Universidad Tecnológica de Graz de forma teórica y práctica para hormigones de altas prestaciones, en la Figura 54 se muestra las uniones.

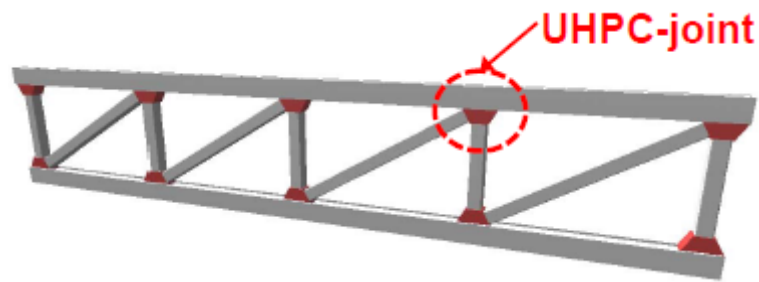


Figura 54. Uniones modulares hechas para UHPC (Nguyen)

Este sistema de uniones como se observa se adapta de forma perfecta para la conexión de los cordones con los montantes y diagonales.

Los montantes se ensamblan a los cordones mediante tornillos de alta resistencia mientras que las diagonales se unen al elemento de unión con tornillos de alta resistencia, como se aprecia en la Figura 55, además la diagonal va a trabajar en su mayoría a compresión que a tracción.

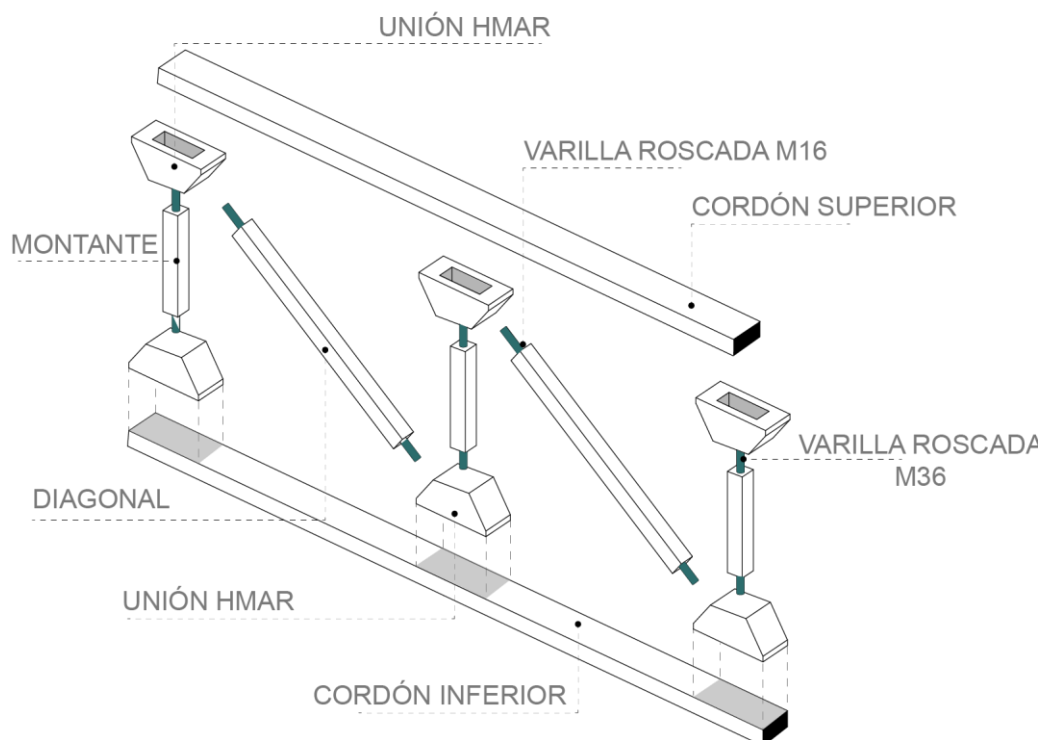


Figura 55. Montaje de las uniones. Fuente: elaboración propia

La Universidad Politécnica de Valencia investiga que los tornillos de alta resistencia son compatibles con el HMAR debido a la ductilidad de este tipo de hormigón.

Para el diseño del tipo de tornillo que se requiere para resistir los esfuerzos se usa el Documento Básico de Seguridad Estructural para Acero:

- Resistencia a tracción del tornillo

$$F_{t.Rd} = \frac{0.90f_{ub}A_s}{\gamma_{M2}}$$

Donde:

A_s = Área resistente a tracción del tornillo

f_{ub} = Resistencia última del tornillo = 1000 MPa

γ_{M2} = 1.25

En la Tabla 34 se indica el cálculo para encontrar el tornillo capaz de resistir los esfuerzos de tracción del montante.

Tabla 34. Diámetro del tornillo para resistir los esfuerzos de tracción en los montantes

Lcercha(m)	Ft.Ed(KN)	n tornillos	As(mm2)	Ø(mm)	Øasum.(mm)
0.00	-1.65	1	3.82	2.21	16
1.47	-164.47	1	380.73	22.02	24
2.94	-145.12	1	335.94	20.68	22
4.41	-125.77	1	291.15	19.25	20
5.88	-106.42	1	246.35	17.71	20
7.35	-87.07	1	201.56	16.02	20
8.82	-67.72	1	156.77	14.13	16
10.29	-48.37	1	111.98	11.94	16
11.76	-29.02	1	67.19	9.25	16
13.23	-9.67	1	22.40	5.34	16
14.70	0.00	1	0.00	0.00	16
16.17	-9.67	1	22.40	5.34	16
17.64	-29.02	1	67.19	9.25	16
19.11	-48.37	1	111.98	11.94	16
20.58	-67.72	1	156.77	14.13	16
22.05	-87.07	1	201.56	16.02	20
23.52	-106.42	1	246.35	17.71	20
24.99	-125.77	1	291.15	19.25	20
26.46	-145.12	1	335.94	20.68	22
27.93	-164.47	1	380.73	22.02	24
29.40	-1.65	1	3.82	2.21	16

- Resistencia a cortante en la sección transversal del tornillo

$$F_{V.Rd} = n \frac{0.50f_{ub}A}{\gamma_{M2}}$$

Donde:

n = número de planos de corte

A = Área de la caña del tornillo o el área resistente del tornillo As

En la Tabla 35 se indica el cálculo para encontrar el tornillo capaz de resistir los esfuerzos de corte del tornillo del montante.

Tabla 35. Diámetro del tornillo para resistir los esfuerzos de corte del montante

Lcercha(m)	FV.Ed(KN)	n tornillos	A(mm2)	ø(mm)	øasum.(mm)
0.00	50.34	1	125.86	12.66	16
1.47	83.26	1	208.16	16.28	20
2.94	50.53	1	126.33	12.68	16
4.41	22.04	1	55.10	8.38	16
5.88	26.15	1	65.38	9.12	16
7.35	99.32	1	248.29	17.78	20
8.82	198.63	1	496.58	25.14	30
10.29	273.12	1	682.79	29.48	30
11.76	322.77	1	806.94	32.05	36
13.23	347.60	1	869.01	33.26	36
14.70	353.81	1	884.53	33.56	36
16.17	347.60	1	869.01	33.26	36
17.64	322.77	1	806.94	32.05	36
19.11	273.12	1	682.79	29.48	30
20.58	198.63	1	496.58	25.14	30
22.05	99.32	1	248.29	17.78	20
23.52	33.19	1	82.98	10.28	16
24.99	37.29	1	93.23	10.89	16
26.46	68.13	1	170.32	14.73	16
27.93	103.21	1	258.01	18.12	20
29.40	60.90	1	152.25	13.92	16

- **Solicitación combinada:** Cuando un tornillo está solicitado en simultáneo a esfuerzos de tracción y de corte, se debe considerar la condición siguiente:

$$\frac{F_{V.Ed}}{F_{V.Rd}} + \frac{F_{t.Ed}}{1.4F_{t.Rd}} \leq 1$$

En la Tabla 36 se muestra los cálculos para comprobar que los tornillos son capaces de resistir la solicitación combinada. Para unificar los diámetros de los montantes se utiliza diferentes secciones de los tornillos que los calculados en el apartado de tracción y corte.

Tabla 36. Diámetro del tornillo para resistir las solicitaciones combinadas en el montante

Lcercha(m)	Ft.Ed(KN)	FV.Ed(KN)	n tornillos	øasum.(mm)	Ft.Rd(KN)	FV.Rd(KN)	Comprobación	
0.00	-1.65	50.34	1	30	305.36	282.74	0.18	CUMPLE
1.47	-164.47	83.26	1	30	305.36	282.74	0.68	CUMPLE
2.94	-145.12	50.53	1	30	305.36	282.74	0.52	CUMPLE
4.41	-125.77	22.04	1	30	305.36	282.74	0.37	CUMPLE
5.88	-106.42	26.15	1	30	305.36	282.74	0.34	CUMPLE
7.35	-87.07	99.32	1	30	305.36	282.74	0.55	CUMPLE
8.82	-67.72	198.63	1	30	305.36	282.74	0.86	CUMPLE
10.29	-48.37	273.12	1	36	439.72	407.15	0.75	CUMPLE
11.76	-29.02	322.77	1	36	439.72	407.15	0.84	CUMPLE
13.23	-9.67	347.60	1	36	439.72	407.15	0.87	CUMPLE
14.70	0.00	353.81	1	36	439.72	407.15	0.87	CUMPLE
16.17	-9.67	347.60	1	36	439.72	407.15	0.87	CUMPLE
17.64	-29.02	322.77	1	36	439.72	407.15	0.84	CUMPLE
19.11	-48.37	273.12	1	36	439.72	407.15	0.75	CUMPLE
20.58	-67.72	198.63	1	30	305.36	282.74	0.86	CUMPLE
22.05	-87.07	99.32	1	30	305.36	282.74	0.55	CUMPLE
23.52	-106.42	33.19	1	30	305.36	282.74	0.37	CUMPLE
24.99	-125.77	37.29	1	30	305.36	282.74	0.43	CUMPLE
26.46	-145.12	68.13	1	30	305.36	282.74	0.58	CUMPLE
27.93	-164.47	103.21	1	30	305.36	282.74	0.75	CUMPLE
29.40	-1.65	60.90	1	30	305.36	282.74	0.22	CUMPLE

De forma simultánea que en los montantes se dimensiona el tipo de tornillo capaz de resistir la tracción en las diagonales como se aprecia en la tabla.

Tabla 37. Diámetro del tornillo para resistir los esfuerzos de tracción en las diagonales

Lcercha(m)	Ft.Ed(KN)	n tornillos	As(mm2)	ø(mm)	øasum.(mm)
1.47	-51.61	1.00	119.46	12.33	16
2.94	-46.01	1.00	106.51	11.65	16
4.41	-40.42	1.00	93.56	10.91	16
5.88	-34.82	1.00	80.60	10.13	16
7.35	-29.23	1.00	67.65	9.28	16
8.82	-23.63	1.00	54.70	8.35	16
10.29	-18.03	1.00	41.75	7.29	16
11.76	-12.44	1.00	28.80	6.06	16
13.23	-6.84	1.00	15.84	4.49	16
14.70	-1.25	1.00	2.89	1.92	16
16.17	-3.99	1.00	9.24	3.43	16
17.64	-9.13	1.00	21.14	5.19	16
19.11	-14.28	1.00	33.04	6.49	16
20.58	-19.42	1.00	44.94	7.56	16
22.05	-24.56	1.00	56.84	8.51	16
23.52	-29.70	1.00	68.74	9.36	16
24.99	-34.84	1.00	80.65	10.13	16
26.46	-39.98	1.00	92.55	10.86	16
27.93	-45.12	1.00	104.45	11.53	16
29.40	-50.26	2.00	58.17	8.61	16

Capítulo 6

6. VALORACIÓN ECONÓMICA

El aspecto económico está relacionado con el tamaño de los elementos que componen la cercha, ya que esta es la variable que permite reducir la cantidad de hormigón que se va a utilizar en este tipo de infraestructuras. Una buena optimización reduce el costo de la estructura a tal punto que puede ser comparado con otro tipo de material, como es la madera. La madera, debido a su ductilidad, ha sido usada en mayor medida para estructuras más complejas y estéticas, sin embargo, los avances de HMAR pueden posicionar a este material en el mercado con una alta competitividad. Tomar en cuenta los valores de una estructura en su etapa inicial da una ventaja en el desarrollo eficiente del proyecto, por lo tanto, para desarrollar un mejor enfoque en el análisis, se toma en referencia los costos de materiales, fabricación e instalación de las cerchas, para compararlos con la cercha de madera utilizada en el caso de estudio por la ingeniera Vidagany. Cabe recalcar que al ser un elemento de hormigón los costos de mantenimiento a largo plazo se ven reducidos.

Es importante tener en cuenta que la optimización de los costes totales (económicos, medioambientales) es uno de los propósitos esenciales en todo proceso de fabricación de los elementos. Una de las ventajas principales del hormigón de alta resistencia, es su reducción en el impacto económico de la infraestructura, en este sentido, se ha demostrado que en una construcción tipo, la estructura representa un gran aporte en el presupuesto final de la obra, por lo que su reducción, sin comprometer por ello la trabajabilidad, resistencia, durabilidad y estética supone grandes beneficios económicos y la disminución de la huella de carbono en la fabricación de la estructura. A continuación, se va a relacionar el costo referencial de la cercha de hormigón HMAR con la cercha de madera propuesta por la ingeniera Alba Vidagany en su trabajo de fin de grado.

Para el cálculo del costo de la cercha de HMAR se usa precios referenciales, además, se han observado otros proyectos de la misma índole para obtener los precios más cercanos al mercado de la construcción. Como se indican en la Tabla 38, el costo

total de una sola cercha es de 10,159.25€ donde se contemplan todas las actividades necesarias que se requieren para la fabricación de la cercha hasta el montaje sobre los pilares.

Tabla 38. Costo de una cercha de HMAR

Código	Descripción	Unidad	Precio Unitario	Cantidad	Precio Total
1001	Hormigón de muy alta resistencia	m3	2,000.00 €	2.03	4,051.95 €
1002	Pretensado	Kg	10.00 €	144.71	1,447.08 €
1003	Varilla roscada M36	m	121.21 €	28.35	3,436.30 €
1004	Varilla roscada M16	m	6.99 €	39.00	272.61 €
1005	Uniones de HMAR	cercha	951.30 €	1	951.30 €
Total					10,159.25 €

Con el motivo de tener una idea más clara de cuál es el rango de costes entre la cubierta de madera, propuesta por la Ingeniera Alba Vidagany Iborra en su trabajo de fin de grado y la cubierta con HMAR, se multiplica el valor de una cercha de HMAR por el número de cerchas del pabellón (10) que propone la ingeniera Vidagany, posteriormente se le añade el costo de la adquisición y montaje de las correas como se aprecia en la Tabla 39. El valor final de la estructura de la cubierta del pabellón con HMAR es de 119.297.37€

Tabla 39. Costo total de la cubierta del pabellón con HMAR

Código	Descripción	Unidad	Precio Unitario	Cantidad	Precio Total
1001	Hormigón de muy alta resistencia	m3	2,000.00 €	20.26	40,519.52 €
1002	Pretensado	Kg	10.00 €	1447.08	14,470.80 €
1003	Varilla roscada M36	m	121.21 €	283.50	34,363.04 €
1004	Varilla roscada M16	m	6.99 €	390.00	2,726.10 €
1005	Uniones de HMAR	cercha	951.30 €	10	9,513.00 €
1006	Correas	Kg	2.46 €	7197.12	17,704.92 €
Total					119,297.37 €

Por otro lado, como la comparación está basada en los costos iniciales de la construcción, tanto de materiales, la fabricación y la instalación de la estructura, se toman los valores de los costos de la estructura de madera del trabajo de fin de grado de la ingeniera Vidagany. Lo cual determina un valor de 140.000€.

Como se puede observar este valor representa el 25.13% (Tabla 40) del valor total del diseño de su estructura, el valor más representativo del mismo. Lo que se puede determinar que la disminución de este representa una reducción sustancial en costo final del proyecto.

RESUMEN GENERAL DEL PRESUPUESTO			
1	ACTUACIONES PREVIAS	1.44%	8.000
2	MOVIMIENTO DE TIERRAS	4.49%	25.000
3	CIRCUITO TOMA TIERRA	0.36%	2.000
4	SANEAMIENTO	4.31%	24.000
5	CIMENTACIÓN ESTRUCTURA	5.39%	30.000
6	CIMENTACIÓN VASO PISCINA Y MURO SÓTANO	23.34%	130.000
6	ESTRUCTURA HORMIGÓN	10.77%	60.000
7	ESTRUCTURA MADERA CUBIERTA	25.13%	140.000
8	ALBAÑILERÍA	3.59%	20.000
9	CUBIERTA	11.67%	65000
10	ESTUDIO DE SEGURIDAD Y SALUD	6.46%	36.000
11	CONTROL DE CALIDAD	0.36%	2.000
12	GESTIÓN DE RESIUDOS	1.07%	6000
13	VARIOS	2.69%	15.000

Tabla 40 Resumen presupuestos cercha de madera (Vidagany Iborra, 2015)

Posteriormente se realiza la comparación del costo de las cerchas (Figura 56). Se puede observar la diferencia de costos entre las dos cubiertas, mostrando que la construcción con madera llega a ser más cara en alrededor del 15%.



Figura 56. Comparación entre la cubierta de madera y HMAR. Fuente: elaboración propia

7. CONCLUSIONES

Durante el desarrollo del presente trabajo de fin de máster se obtuvieron las siguientes conclusiones:

- Durante la revisión del estado del arte del hormigón de muy alta resistencia (HMAR) en el mundo, se nota que el uso de éste material aún no es masivo, sin embargo, existen construcciones como: pasarelas, puentes, pistas de aeropuertos, columnas, fachadas, escaleras, balcones, techos, tabla estacas, tuberías, mobiliario, entre otros; lo cual demuestra los múltiples tipos de obras donde se puede aplicar ésta tecnología. En algunas de las infraestructuras construidas en el mundo se optó por el HMAR, aun habiendo sido éstas concebidas con otro tipo de material debido a sus características mecánicas, de durabilidad y estéticas que realzan el estilo de las construcciones.
- Para la cercha inclinada a una sola agua con luz de 29.40 metros, el peralte óptimo es de 1.15 metros con distancia entre montantes de 1.47m.
- La tipología que mejor se adapta para el diseño de ésta celosía con hormigón de muy alta resistencia es el tipo “Howe”. Se determina idónea ésta configuración de celosía porque los esfuerzos de tracción son mayores en los montantes que en las diagonales, y se considera que es más fácil reforzar los elementos verticales, además su configuración geométrica es la más adecuada para fabricar los elementos de la cercha divididos y que se ensamblen posteriormente de forma más rápida.
- La principal limitante de diseño dentro del análisis de los elementos de la cercha son los efectos de segundo orden, lo cual se debe a las secciones transversales pequeñas que se consiguen con el HMAR.
- Las cerchas que poseen menor número de divisiones en el cordón (8 y 10) al aumentar la altura de la cercha disminuye su peso, sin embargo, aquellas que tienen mayor número de divisiones (18, 20 y 22) al aumentar el peralte de la cercha su peso aumenta.

- En el estudio se observa que las cerchas de menor peso y que cumplen con las resistencias requeridas por las solicitaciones, son las que están en el rango de altura entre 0.90m a 1.40m para el HMAR.
- La cercha con HMAR necesita un peralte inferior comparado con la madera debido a que puede resistir esfuerzos axiales mayores por su elevada resistencia que posee, además se le puede añadir el pretensado y varillas roscadas para controlar los esfuerzos de tracción.
- Sin duda el costo del hormigón de muy alta resistencia es elevado, pero se compensa con secciones de los elementos de menor tamaño, mayor durabilidad, menor mantenimiento, menor peso de la estructura y alcanzar connotaciones estéticas agradables con formas constructivas innovadoras.
- En el HMAR el curado es un factor de vital importancia para alcanzar elevadas resistencias a tiempos cortos y disminuir los efectos de retracción y fluencia.

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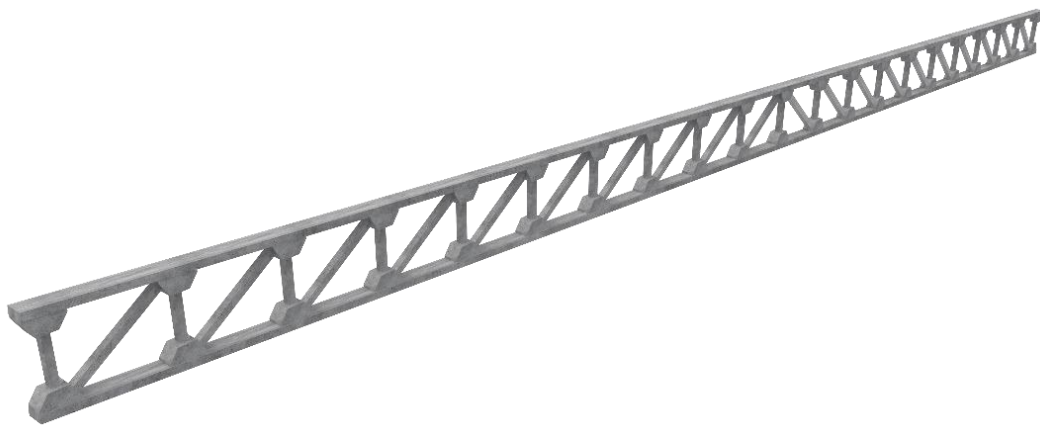


DEPARTAMENTO DE
INGENIERÍA DE LA CONSTRUCCIÓN
Y DE PROYECTOS DE INGENIERÍA CIVIL

TRABAJO DE FIN DE MÁSTER

APÉNDICES

DISEÑO ÓPTIMO DE UNA CERCHA DE HORMIGÓN DE MUY ALTA RESISTENCIA (HMAR) PARA LA CUBIERTA DE LA PISCINA MUNICIPAL DE ALMUSSAFES (VALENCIA)



Autor: Henry Abalco Armas

Tutora: María Carmen Castro Bugallo

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Julio 2019

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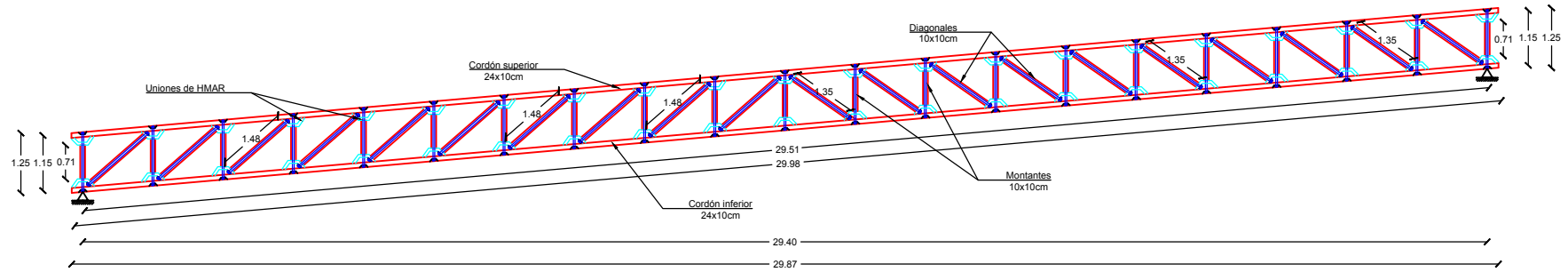
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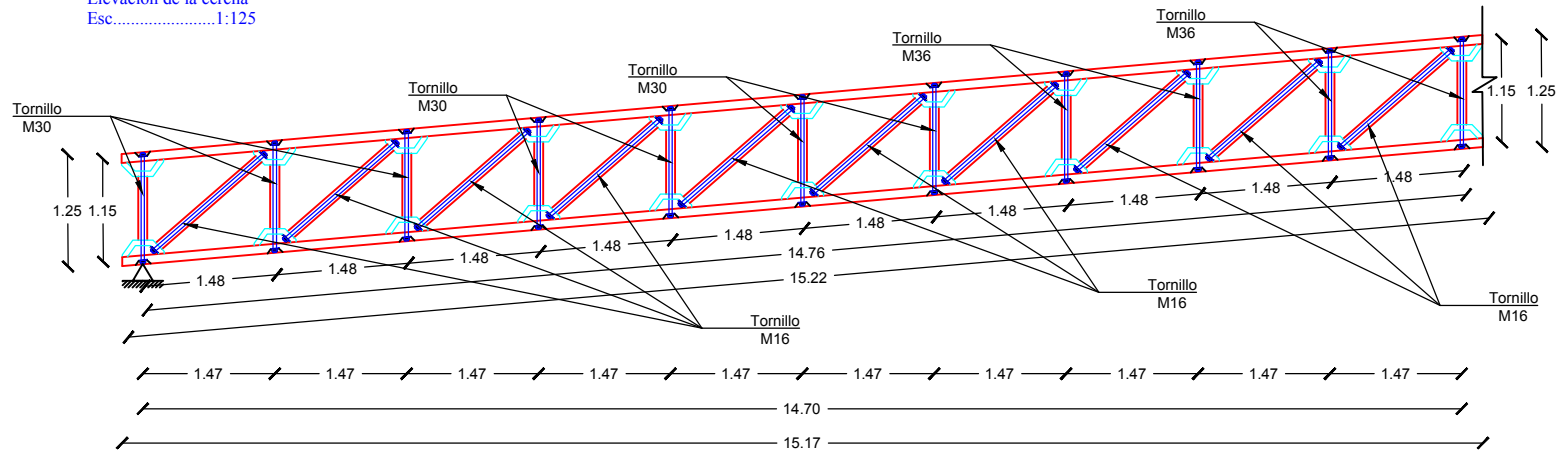
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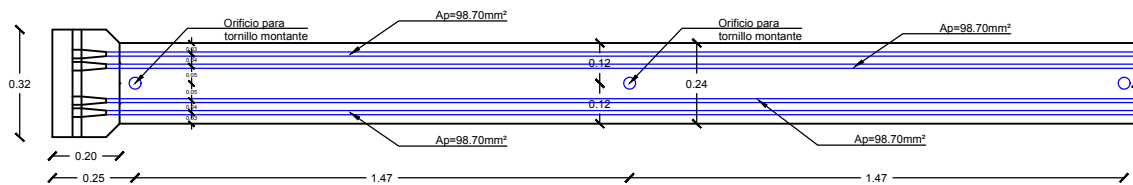
A1.- CROQUIS



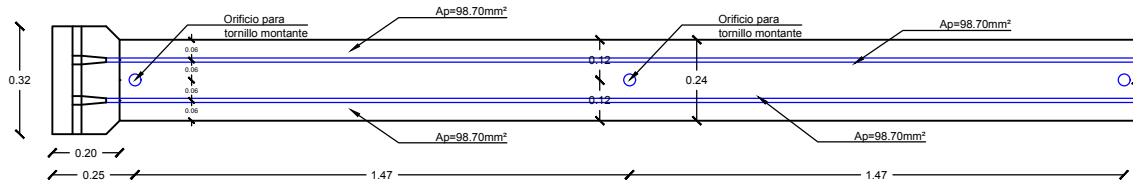
Elevación de la cercha
Esc.....1:125



Elevación de la cercha con el armado de los montantes y diagonales
Esc.....1:75

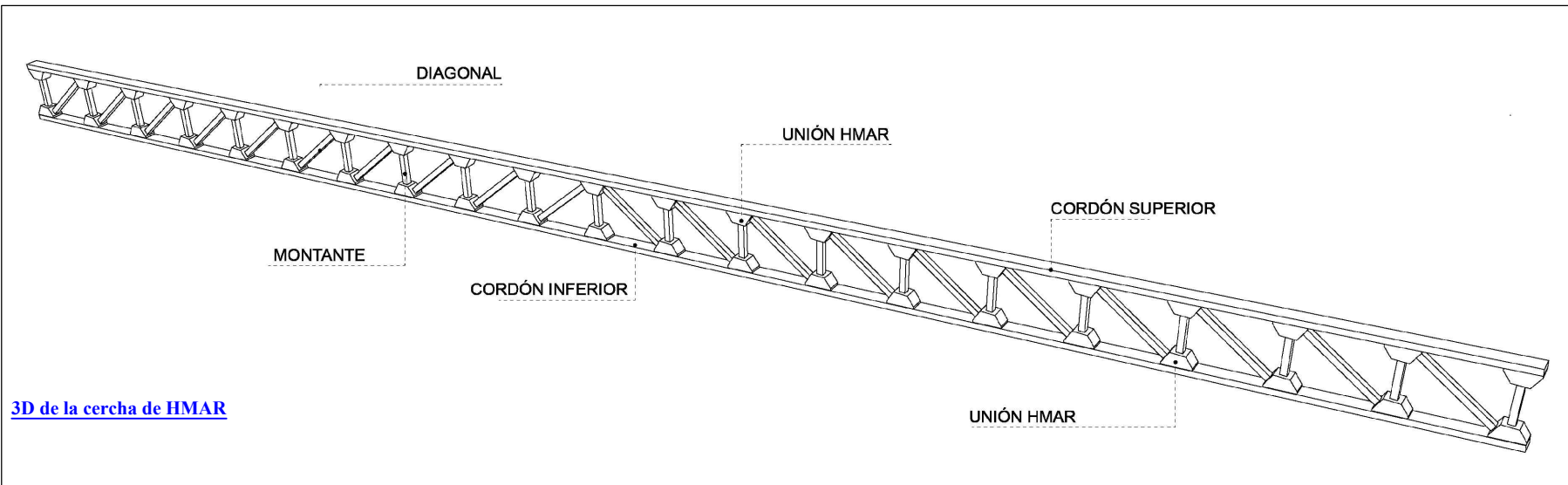


Armadura de pretensado del cordón inferior
Esc.....1:20

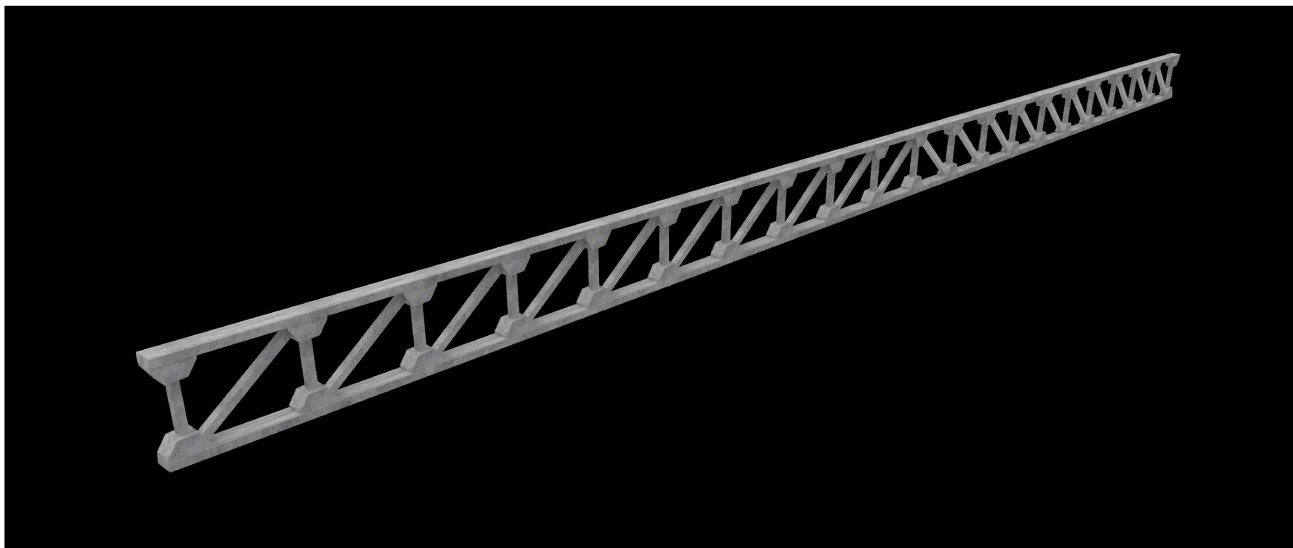


Armadura de pretensado del cordón superior
Esc.....1:20

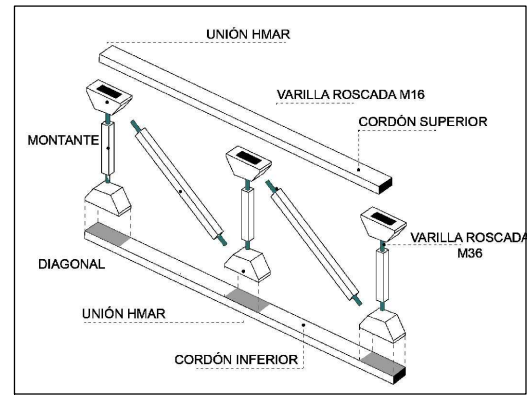
	UNIVERSIDAD POLITÉCNICA DE VALENCIA	
	Diseño óptimo de cercha de hormigón de muy alta resistencia (HMAR) para la cubierta del pabellón de piscina ubicado en Almussafes (Valencia)	
Ing. Henry Abalco	Contiene: - Elevación de la cercha de HMAR y armadura de sus elementos	TRABAJO DE FIN DE MÁSTER Lámina: 1/2
Fecha: Julio 2019		ESCALAS: Indicadas



3D de la cercha de HMAR



Render de la cercha de HMAR



Despiece de la cercha de HMAR

<p>MUH MÁSTER UNIVERSITARIO EN INGENIERÍA DEL HORMIGÓN UNIVERSIDAD POLITÉCNICA DE VALENCIA</p>	UNIVERSIDAD POLITÉCNICA DE VALENCIA	
	Diseño óptimo de cercha de hormigón de muy alta resistencia (HMAR) para la cubierta del pabellón de piscina ubicado en Almussafes (Valencia)	
Ing. Henry Abalco	Contiene: - 3D, render y despiece de la cercha de HMAR	TRABAJO DE FIN DE MÁSTER Lámina: 2/2
Fecha: Julio 2019		ESCALAS: Indicadas

A2.- RESULTADOS

A2.1.- COMBINACIÓN DE ESFUERZOS

A2.1.1.- Cercha con 8 divisiones del cordón

En la Figura 1 se indica el cálculo de la cercha con el cordón dividido en 8 espacios para alturas desde 50cm hasta 450cm con intervalos de 5cm, con el software Matlab2018.

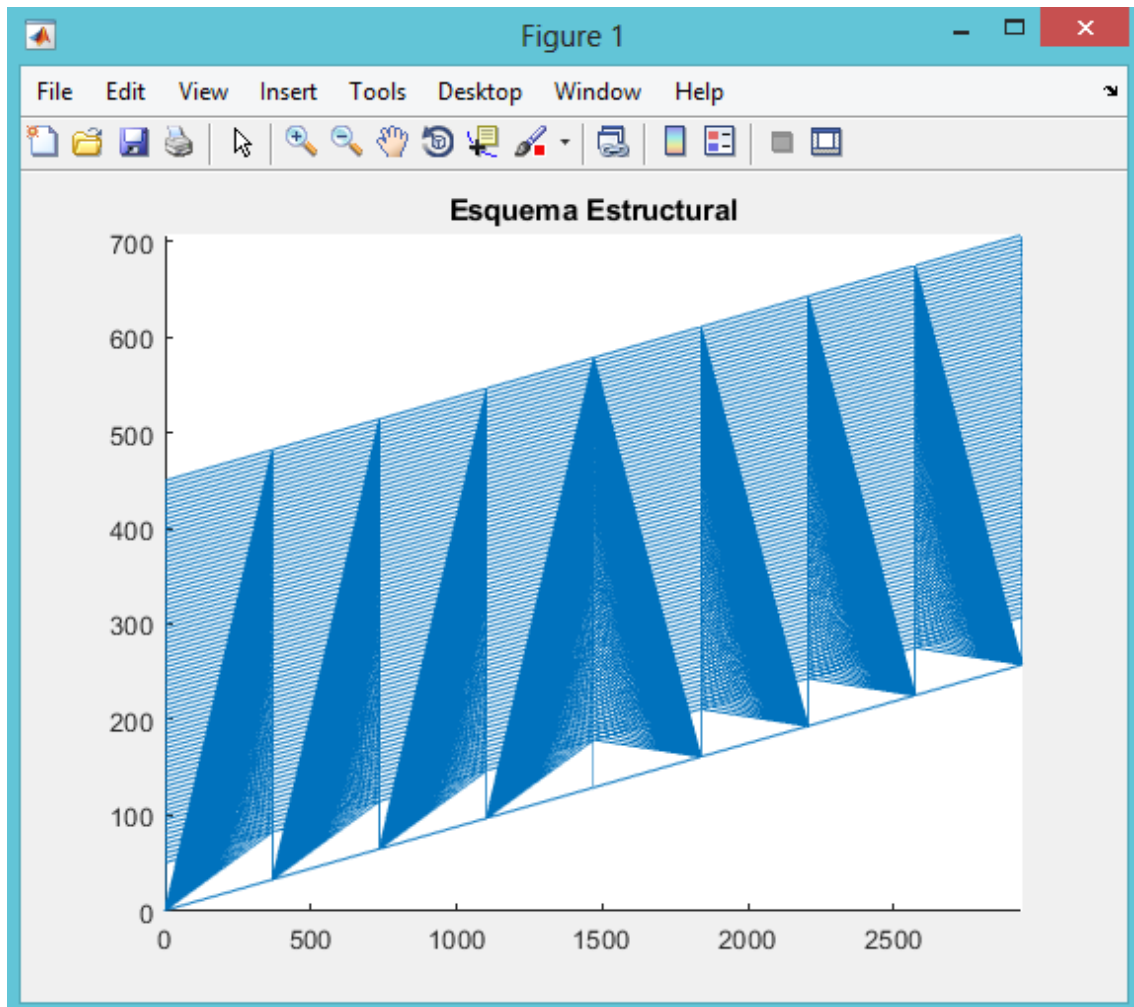


Figura 1. Cercha con el cordón dividido en 8 espacios (ejes en cm)

En la Tabla 1 se muestran las combinaciones de esfuerzos para el cordón inferior en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 1. Combinación de esfuerzos del cordón inferior - 8 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)
0.50	295.29	934.14	521.51	762.64	69.08	1289.05
	30.22	84.92	49.10	69.33	11.35	117.19
	-424.61	-129.60	-346.66	-234.74	-585.93	-24.47
	-594.45	-184.18	-485.32	-330.00	-820.31	-38.36
	-594.45	-184.18	-485.32	-330.00	-820.31	-38.36
	-424.61	-133.51	-346.66	-236.70	-585.93	-30.33
	22.40	84.92	45.19	69.33	-0.39	117.19
	283.56	934.14	515.65	762.64	51.48	1289.05
0.55	235.62	815.85	441.00	659.94	30.23	1126.82
	24.80	74.17	41.78	59.99	7.81	102.44
	-370.84	-102.48	-299.97	-198.14	-512.19	-6.81
	-519.18	-146.20	-419.96	-278.77	-717.07	-13.64
	-519.18	-146.20	-419.96	-278.77	-717.07	-13.64
	-370.84	-106.39	-299.97	-200.10	-512.19	-12.67
	16.98	74.17	37.87	59.99	-3.92	102.44
	223.88	815.85	435.14	659.94	12.63	1126.82
0.60	204.64	736.04	392.67	593.12	16.62	1016.95
	21.98	66.91	37.39	53.92	6.58	92.45
	-334.56	-88.40	-269.60	-176.18	-462.25	-0.62
	-468.39	-126.49	-377.44	-248.01	-647.15	-4.97
	-468.39	-126.49	-377.44	-248.01	-647.15	-4.97
	-334.56	-92.31	-269.60	-178.13	-462.25	-6.49
	14.16	66.91	33.48	53.92	-5.15	92.45
	192.91	736.04	386.80	593.12	-0.98	1016.95
0.65	172.01	662.08	345.35	530.16	-1.33	915.31
	19.01	60.19	33.08	48.20	4.95	83.21
	-300.94	-73.56	-240.98	-154.67	-416.05	7.54
	-421.32	-105.73	-337.37	-217.90	-582.47	6.44
	-421.32	-105.73	-337.37	-217.90	-582.47	6.44
	-300.94	-77.48	-240.98	-156.62	-416.05	1.67
	11.19	60.19	29.17	48.20	-6.79	83.21
	160.28	662.08	339.48	530.16	-18.92	915.31
0.70	152.69	607.34	313.44	484.84	-8.05	839.88
	17.26	55.21	30.18	44.08	4.33	76.35
	-276.06	-64.78	-220.38	-140.16	-381.76	10.59
	-386.49	-93.44	-308.53	-197.59	-534.47	10.72
	-386.49	-93.44	-308.53	-197.59	-534.47	10.72
	-276.06	-68.69	-220.38	-142.12	-381.76	4.73
	9.44	55.21	26.27	44.08	-7.40	76.35
	140.96	607.34	307.57	484.84	-25.65	839.88
0.75	136.36	560.31	286.20	445.97	-13.47	775.05

	15.77	50.94	27.71	40.54	3.84	70.46
	-254.68	-57.36	-202.72	-127.78	-352.30	13.06
	-356.56	-83.04	-283.80	-180.26	-493.22	14.17
	-356.56	-83.04	-283.80	-180.26	-493.22	14.17
	-254.68	-61.27	-202.72	-129.73	-352.30	7.19
	7.95	50.94	23.80	40.54	-7.89	70.46
	124.63	560.31	280.33	445.97	-31.07	775.05
	126.46	523.54	266.75	416.36	-13.82	724.26
0.80	14.87	47.59	25.94	37.85	3.81	65.84
	-237.97	-52.86	-189.25	-118.94	-329.21	13.22
	-333.16	-76.74	-264.95	-167.88	-460.89	14.40
	-333.16	-76.74	-264.95	-167.88	-460.89	14.40
	-237.97	-56.77	-189.25	-120.89	-329.21	7.35
	7.05	47.59	22.03	37.85	-7.92	65.84
	114.73	523.54	260.88	416.36	-31.42	724.26
	111.80	485.18	243.66	384.30	-20.06	671.44
0.85	13.54	44.11	23.84	34.94	3.24	61.04
	-220.54	-46.20	-174.68	-108.45	-305.20	16.05
	-308.75	-67.41	-244.55	-153.19	-427.28	18.36
	-308.75	-67.41	-244.55	-153.19	-427.28	18.36
	-220.54	-50.11	-174.68	-110.40	-305.20	10.18
	5.72	44.11	19.93	34.94	-8.49	61.04
	100.07	485.18	237.80	384.30	-37.66	671.44
	102.34	454.64	226.71	359.37	-22.04	629.30
0.90	12.68	41.33	22.30	32.67	3.06	57.21
	-206.66	-41.89	-163.35	-100.74	-286.05	16.95
	-289.32	-61.39	-228.69	-142.40	-400.47	19.62
	-289.32	-61.39	-228.69	-142.40	-400.47	19.62
	-206.66	-45.80	-163.35	-102.69	-286.05	11.08
	4.86	41.33	18.39	32.67	-8.67	57.21
	90.60	454.64	220.84	359.37	-39.63	629.30
	95.88	429.34	213.55	339.08	-21.79	594.32
0.95	12.09	39.03	21.10	30.83	3.08	54.03
	-195.15	-38.96	-154.13	-94.76	-270.15	16.84
	-273.21	-57.28	-215.78	-134.03	-378.21	19.47
	-273.21	-57.28	-215.78	-134.03	-378.21	19.47
	-195.15	-42.87	-154.13	-96.71	-270.15	10.97
	4.27	39.03	17.19	30.83	-8.65	54.03
	84.15	429.34	207.69	339.08	-39.39	594.32
	87.46	403.95	199.10	318.20	-24.19	559.31
1.00	11.33	36.72	19.79	28.93	2.87	50.85
	-183.61	-35.13	-144.64	-88.19	-254.23	17.93
	-257.06	-51.92	-202.49	-124.83	-355.92	20.99
	-257.06	-51.92	-202.49	-124.83	-355.92	20.99
	-183.61	-39.04	-144.64	-90.14	-254.23	12.06

	3.51	36.72	15.88	28.93	-8.86	50.85
	75.72	403.95	193.23	318.20	-41.78	559.31
1.05	78.64	379.78	184.83	298.12	-27.55	526.02
	10.53	34.53	18.49	27.10	2.56	47.82
	-172.63	-31.12	-135.51	-81.70	-239.10	19.45
	-241.68	-46.31	-189.71	-115.75	-334.74	23.13
	-241.68	-46.31	-189.71	-115.75	-334.74	23.13
	-172.63	-35.03	-135.51	-83.66	-239.10	13.59
	2.71	34.53	14.58	27.10	-9.17	47.82
	66.91	379.78	178.96	298.12	-45.14	526.02
	75.46	362.64	176.68	284.69	-25.77	502.28
1.10	10.24	32.97	17.75	25.88	2.72	45.66
	-164.84	-29.68	-129.40	-78.00	-228.31	18.65
	-230.77	-44.29	-181.17	-110.57	-319.63	22.00
	-230.77	-44.29	-181.17	-110.57	-319.63	22.00
	-164.84	-33.59	-129.40	-79.96	-228.31	12.78
	2.42	32.97	13.84	25.88	-9.01	45.66
	63.73	362.64	170.82	284.69	-43.37	502.28
	72.64	347.08	169.34	272.52	-24.06	480.72
1.15	9.98	31.55	17.08	24.77	2.88	43.70
	-157.76	-28.40	-123.87	-74.66	-218.51	17.87
	-220.87	-42.49	-173.42	-105.89	-305.91	20.91
	-220.87	-42.49	-173.42	-105.89	-305.91	20.91
	-157.76	-32.31	-123.87	-76.62	-218.51	12.00
	2.16	31.55	13.17	24.77	-8.85	43.70
	60.91	347.08	163.47	272.52	-41.66	480.72
	68.68	331.44	161.22	259.98	-23.87	459.10
1.20	9.62	30.13	16.35	23.63	2.90	41.74
	-150.65	-26.59	-118.17	-70.97	-208.68	17.78
	-210.92	-39.97	-165.44	-100.73	-292.15	20.79
	-210.92	-39.97	-165.44	-100.73	-292.15	20.79
	-150.65	-30.51	-118.17	-72.93	-208.68	11.92
	1.80	30.13	12.43	23.63	-8.84	41.74
	56.94	331.44	155.36	259.98	-41.47	459.10
	63.23	315.25	151.96	246.65	-25.49	436.78
1.25	9.13	28.66	15.50	22.42	2.75	39.71
	-143.30	-24.12	-112.12	-66.76	-198.54	18.52
	-200.62	-36.51	-156.96	-94.84	-277.95	21.82
	-200.62	-36.51	-156.96	-94.84	-277.95	21.82
	-143.30	-28.03	-112.12	-68.72	-198.54	12.65
	1.30	28.66	11.59	22.42	-8.98	39.71
	51.50	315.25	146.10	246.65	-43.09	436.78
	57.34	299.44	142.54	233.48	-27.86	415.00
1.30	8.59	27.22	14.65	21.23	2.53	37.73
	-136.11	-21.44	-106.13	-62.48	-188.63	19.60

	-190.55	-32.75	-148.58	-88.84	-264.09	23.33
	-190.55	-32.75	-148.58	-88.84	-264.09	23.33
	-136.11	-25.35	-106.13	-64.44	-188.63	13.73
	0.77	27.22	10.74	21.23	-9.20	37.73
	45.61	299.44	136.67	233.48	-45.46	415.00
1.35	55.61	288.53	137.55	225.01	-26.33	399.87
	8.43	26.23	14.19	20.46	2.67	36.35
	-131.15	-20.66	-102.28	-60.21	-181.76	18.90
	-183.61	-31.65	-143.19	-85.66	-254.46	22.35
	-183.61	-31.65	-143.19	-85.66	-254.46	22.35
	-131.15	-24.57	-102.28	-62.17	-181.76	13.03
	0.61	26.23	10.28	20.46	-9.06	36.35
	43.88	288.53	131.68	225.01	-43.93	399.87
1.40	53.93	278.32	132.84	217.07	-24.97	385.72
	8.28	25.30	13.77	19.73	2.80	35.07
	-126.51	-19.89	-98.67	-58.07	-175.33	18.28
	-177.11	-30.59	-138.14	-82.67	-245.46	21.49
	-177.11	-30.59	-138.14	-82.67	-245.46	21.49
	-126.51	-23.80	-98.67	-60.03	-175.33	12.42
	0.46	25.30	9.85	19.73	-8.94	35.07
	42.20	278.32	126.98	217.07	-42.57	385.72
1.45	52.45	268.90	128.53	209.76	-23.64	372.65
	8.14	24.45	13.37	19.07	2.92	33.88
	-122.23	-19.22	-95.34	-56.11	-169.39	17.68
	-171.12	-29.64	-133.48	-79.93	-237.14	20.64
	-171.12	-29.64	-133.48	-79.93	-237.14	20.64
	-122.23	-23.13	-95.34	-58.07	-169.39	11.81
	0.32	24.45	9.46	19.07	-8.81	33.88
	40.71	268.90	122.66	209.76	-41.24	372.65
1.50	49.87	258.91	123.32	201.74	-23.58	358.85
	7.91	23.54	12.90	18.34	2.92	32.62
	-117.69	-18.05	-91.70	-53.74	-163.11	17.65
	-164.76	-28.00	-128.38	-76.61	-228.36	20.60
	-164.76	-28.00	-128.38	-76.61	-228.36	20.60
	-117.69	-21.96	-91.70	-55.70	-163.11	11.78
	0.09	23.54	8.99	18.34	-8.81	32.62
	38.14	258.91	117.46	201.74	-41.18	358.85
1.55	47.17	249.27	118.15	193.95	-23.82	345.54
	7.66	22.66	12.43	17.63	2.90	31.41
	-113.31	-16.82	-88.16	-51.40	-157.06	17.76
	-158.63	-26.28	-123.42	-73.32	-219.89	20.76
	-158.63	-26.28	-123.42	-73.32	-219.89	20.76
	-113.31	-20.73	-88.16	-53.35	-157.06	11.89
	-0.16	22.66	8.52	17.63	-8.83	31.41
	35.43	249.27	112.29	193.95	-41.42	345.54

1.60	45.14	240.75	113.82	187.15	-23.54	333.75
	7.48	21.89	12.04	17.01	2.93	30.34
	-109.43	-15.90	-85.07	-49.42	-151.70	17.63
	-153.20	-24.99	-119.10	-70.56	-212.38	20.58
	-153.20	-24.99	-119.10	-70.56	-212.38	20.58
	-109.43	-19.81	-85.07	-51.38	-151.70	11.76
	-0.34	21.89	8.13	17.01	-8.81	30.34
	33.41	240.75	107.95	187.15	-41.13	333.75
1.65	42.97	232.47	109.47	180.50	-23.54	322.31
	7.28	21.13	11.64	16.41	2.93	29.30
	-105.67	-14.91	-82.05	-47.45	-146.50	17.63
	-147.94	-23.61	-114.86	-67.80	-205.10	20.58
	-147.94	-23.61	-114.86	-67.80	-205.10	20.58
	-105.67	-18.82	-82.05	-49.41	-146.50	11.77
	-0.54	21.13	7.73	16.41	-8.81	29.30
	31.24	232.47	103.61	180.50	-41.14	322.31
1.70	42.02	225.78	106.49	175.34	-22.44	313.02
	7.20	20.53	11.37	15.94	3.03	28.46
	-102.63	-14.48	-79.70	-46.09	-142.28	17.13
	-143.68	-23.01	-111.58	-65.90	-199.20	19.88
	-143.68	-23.01	-111.58	-65.90	-199.20	19.88
	-102.63	-18.39	-79.70	-48.05	-142.28	11.27
	-0.62	20.53	7.46	15.94	-8.71	28.46
	30.29	225.78	100.62	175.34	-40.04	313.02
1.75	41.13	219.47	103.67	170.47	-21.41	304.27
	7.12	19.95	11.11	15.50	3.12	27.66
	-99.76	-14.07	-77.49	-44.81	-138.31	16.66
	-139.66	-22.44	-108.48	-64.10	-193.63	19.22
	-139.66	-22.44	-108.48	-64.10	-193.63	19.22
	-99.76	-17.98	-77.49	-46.77	-138.31	10.80
	-0.70	19.95	7.20	15.50	-8.61	27.66
	29.40	219.47	97.80	170.47	-39.01	304.27
1.80	39.05	212.27	99.77	164.63	-21.67	294.33
	6.93	19.30	10.76	14.97	3.10	26.76
	-96.49	-13.13	-74.83	-43.04	-133.79	16.78
	-135.08	-21.12	-104.76	-61.62	-187.30	19.39
	-135.08	-21.12	-104.76	-61.62	-187.30	19.39
	-96.49	-17.04	-74.83	-44.99	-133.79	10.92
	-0.89	19.30	6.85	14.97	-8.64	26.76
	27.32	212.27	93.90	164.63	-39.27	294.33
1.85	38.23	206.61	97.23	160.26	-20.77	286.48
	6.85	18.78	10.53	14.57	3.18	26.04
	-93.91	-12.76	-72.85	-41.89	-130.22	16.37
	-131.48	-20.60	-101.98	-60.01	-182.31	18.82
	-131.48	-20.60	-101.98	-60.01	-182.31	18.82

	-93.91	-16.67	-72.85	-43.84	-130.22	10.51
	-0.97	18.78	6.62	14.57	-8.55	26.04
	26.50	206.61	91.36	160.26	-38.37	286.48
1.90	37.51	201.31	94.88	156.18	-19.86	279.13
	6.79	18.30	10.31	14.20	3.26	25.38
	-91.50	-12.43	-70.99	-40.82	-126.88	15.96
	-128.11	-20.14	-99.39	-58.51	-177.63	18.24
	-128.11	-20.14	-99.39	-58.51	-177.63	18.24
	-91.50	-16.34	-70.99	-42.77	-126.88	10.09
	-1.03	18.30	6.40	14.20	-8.47	25.38
	25.78	201.31	89.02	156.18	-37.45	279.13
		36.83	196.28	92.66	152.31	-18.99
1.95	6.73	17.84	10.11	13.85	3.34	24.74
	-89.22	-12.12	-69.23	-39.81	-123.70	15.56
	-124.91	-19.71	-96.92	-57.10	-173.18	17.68
	-124.91	-19.71	-96.92	-57.10	-173.18	17.68
	-89.22	-16.03	-69.23	-41.76	-123.70	9.70
	-1.10	17.84	6.20	13.85	-8.39	24.74
	25.10	196.28	86.79	152.31	-36.59	272.15
		36.19	191.50	90.54	148.63	-18.17
2.00	6.67	17.41	9.92	13.51	3.41	24.14
	-87.05	-11.83	-67.56	-38.85	-120.69	15.19
	-121.87	-19.30	-94.58	-55.75	-168.97	17.16
	-121.87	-19.30	-94.58	-55.75	-168.97	17.16
	-87.05	-15.74	-67.56	-40.80	-120.69	9.32
	-1.15	17.41	6.01	13.51	-8.32	24.14
	24.46	191.50	84.68	148.63	-35.76	265.52
		34.90	186.28	87.86	144.45	-18.06
2.05	6.55	16.93	9.68	13.13	3.42	23.48
	-84.67	-11.24	-65.66	-37.62	-117.41	15.14
	-118.54	-18.48	-91.92	-54.04	-164.37	17.09
	-118.54	-18.48	-91.92	-54.04	-164.37	17.09
	-84.67	-15.15	-65.66	-39.58	-117.41	9.27
	-1.27	16.93	5.77	13.13	-8.31	23.48
	23.17	186.28	81.99	144.45	-35.65	258.30
		34.33	181.97	85.96	141.14	-17.30
2.10	6.50	16.54	9.50	12.83	3.49	22.94
	-82.71	-10.98	-64.15	-36.76	-114.69	14.79
	-115.80	-18.11	-89.81	-52.83	-160.56	16.61
	-115.80	-18.11	-89.81	-52.83	-160.56	16.61
	-82.71	-14.89	-64.15	-38.72	-114.69	8.93
	-1.32	16.54	5.59	12.83	-8.24	22.94
	22.60	181.97	80.09	141.14	-34.89	252.32
		32.75	176.82	83.11	136.93	-17.61
2.15	6.35	16.07	9.24	12.45	3.46	22.29

	-80.37	-10.26	-62.24	-35.47	-111.46	14.94
	-112.52	-17.11	-87.14	-51.02	-156.04	16.80
	-112.52	-17.11	-87.14	-51.02	-156.04	16.80
	-80.37	-14.17	-62.24	-37.42	-111.46	9.07
	-1.47	16.07	5.33	12.45	-8.27	22.29
	21.02	176.82	77.24	136.93	-35.21	245.21
2.20	32.26	172.92	81.40	133.94	-16.89	239.79
	6.31	15.72	9.09	12.18	3.53	21.80
	-78.60	-10.04	-60.88	-34.69	-109.00	14.61
	-110.04	-16.79	-85.23	-49.94	-152.60	16.35
	-110.04	-16.79	-85.23	-49.94	-152.60	16.35
	-78.60	-13.95	-60.88	-36.65	-109.00	8.74
	-1.51	15.72	5.18	12.18	-8.20	21.80
	20.53	172.92	75.54	133.94	-34.49	239.79
2.25	31.15	168.56	79.14	130.45	-16.83	233.77
	6.21	15.32	8.88	11.86	3.54	21.25
	-76.62	-9.54	-59.29	-33.66	-106.26	14.58
	-107.26	-16.09	-83.01	-48.50	-148.76	16.31
	-107.26	-16.09	-83.01	-48.50	-148.76	16.31
	-76.62	-13.45	-59.29	-35.62	-106.26	8.72
	-1.61	15.32	4.97	11.86	-8.20	21.25
	19.42	168.56	73.28	130.45	-34.43	233.77
2.30	30.72	165.01	77.60	127.72	-16.17	228.84
	6.17	15.00	8.74	11.61	3.60	20.80
	-75.00	-9.34	-58.06	-32.96	-104.02	14.28
	-105.00	-15.81	-81.28	-47.51	-145.62	15.89
	-105.00	-15.81	-81.28	-47.51	-145.62	15.89
	-75.00	-13.25	-58.06	-34.92	-104.02	8.41
	-1.65	15.00	4.83	11.61	-8.14	20.80
	18.99	165.01	71.73	127.72	-33.76	228.84
2.35	30.30	161.60	76.12	125.12	-15.53	224.12
	6.13	14.69	8.61	11.37	3.65	20.37
	-73.46	-9.15	-56.87	-32.29	-101.87	13.99
	-102.84	-15.55	-79.62	-46.57	-142.62	15.48
	-102.84	-15.55	-79.62	-46.57	-142.62	15.48
	-73.46	-13.06	-56.87	-34.24	-101.87	8.12
	-1.69	14.69	4.70	11.37	-8.08	20.37
	18.57	161.60	70.25	125.12	-33.12	224.12
2.40	29.90	158.35	74.70	122.62	-14.91	219.59
	6.09	14.40	8.48	11.15	3.71	19.96
	-71.98	-8.97	-55.73	-31.65	-99.81	13.71
	-100.77	-15.29	-78.03	-45.67	-139.74	15.09
	-100.77	-15.29	-78.03	-45.67	-139.74	15.09
	-71.98	-12.88	-55.73	-33.60	-99.81	7.84
	-1.73	14.40	4.57	11.15	-8.02	19.96

	18.16	158.35	68.84	122.62	-32.51	219.59
2.45	29.51	155.22	73.34	120.22	-14.32	215.25
	6.06	14.11	8.36	10.93	3.76	19.57
	-70.55	-8.79	-54.65	-31.03	-97.84	13.44
	-98.78	-15.05	-76.50	-44.81	-136.98	14.71
	-98.78	-15.05	-76.50	-44.81	-136.98	14.71
	-70.55	-12.70	-54.65	-32.98	-97.84	7.58
	-1.76	14.11	4.45	10.93	-7.97	19.57
	17.78	155.22	67.48	120.22	-31.92	215.25
2.50	29.14	152.22	72.04	117.92	-13.75	211.09
	6.03	13.84	8.24	10.72	3.82	19.19
	-69.19	-8.63	-53.60	-30.44	-95.95	13.18
	-96.87	-14.81	-75.04	-43.98	-134.33	14.35
	-96.87	-14.81	-75.04	-43.98	-134.33	14.35
	-69.19	-12.54	-53.60	-32.39	-95.95	7.32
	-1.79	13.84	4.33	10.72	-7.92	19.19
	17.41	152.22	66.18	117.92	-31.35	211.09
2.55	28.79	149.34	70.79	115.71	-13.21	207.09
	5.99	13.58	8.12	10.52	3.87	18.83
	-67.88	-8.47	-52.60	-29.87	-94.13	12.94
	-95.03	-14.59	-73.64	-43.18	-131.79	14.00
	-95.03	-14.59	-73.64	-43.18	-131.79	14.00
	-67.88	-12.38	-52.60	-31.82	-94.13	7.07
	-1.83	13.58	4.21	10.52	-7.87	18.83
	17.06	149.34	64.92	115.71	-30.80	207.09
2.60	28.45	146.57	69.59	113.59	-12.68	203.25
	5.96	13.32	8.01	10.33	3.91	18.48
	-66.62	-8.31	-51.63	-29.32	-92.38	12.70
	-93.27	-14.37	-72.28	-42.42	-129.34	13.67
	-93.27	-14.37	-72.28	-42.42	-129.34	13.67
	-66.62	-12.22	-51.63	-31.27	-92.38	6.83
	-1.86	13.32	4.10	10.33	-7.82	18.48
	16.72	146.57	63.72	113.59	-30.28	203.25
2.65	27.28	143.06	67.59	110.70	-13.02	198.41
	5.86	13.01	7.83	10.06	3.88	18.04
	-65.03	-7.78	-50.32	-28.41	-90.19	12.85
	-91.04	-13.63	-70.45	-41.14	-126.26	13.88
	-91.04	-13.63	-70.45	-41.14	-126.26	13.88
	-65.03	-11.69	-50.32	-30.37	-90.19	6.98
	-1.96	13.01	3.92	10.06	-7.85	18.04
	15.55	143.06	61.72	110.70	-30.62	198.41
2.70	26.99	140.51	66.49	108.75	-12.52	194.87
	5.83	12.77	7.73	9.89	3.93	17.72
	-63.87	-7.64	-49.43	-27.91	-88.58	12.62
	-89.42	-13.44	-69.21	-40.44	-124.01	13.56

	-89.42	-13.44	-69.21	-40.44	-124.01	13.56
	-63.87	-11.56	-49.43	-29.87	-88.58	6.76
	-1.99	12.77	3.82	9.89	-7.80	17.72
	15.25	140.51	60.62	108.75	-30.11	194.87
2.75	26.66	138.01	65.39	106.83	-12.07	191.40
	5.80	12.55	7.63	9.71	3.97	17.40
	-62.73	-7.50	-48.56	-27.41	-87.00	12.42
	-87.83	-13.23	-67.98	-39.74	-121.80	13.28
	-87.83	-13.23	-67.98	-39.74	-121.80	13.28
	-62.73	-11.41	-48.56	-29.37	-87.00	6.55
	-2.02	12.55	3.72	9.71	-7.76	17.40
	14.93	138.01	59.52	106.83	-29.67	191.40
2.80	26.38	135.65	64.37	105.02	-11.60	188.11
	5.78	12.33	7.54	9.55	4.01	17.10
	-61.66	-7.37	-47.74	-26.95	-85.51	12.21
	-86.32	-13.06	-66.83	-39.10	-119.71	12.98
	-86.32	-13.06	-66.83	-39.10	-119.71	12.98
	-61.66	-11.28	-47.74	-28.90	-85.51	6.34
	-2.05	12.33	3.63	9.55	-7.72	17.10
	14.65	135.65	58.50	105.02	-29.20	188.11
2.85	26.12	133.36	63.39	103.27	-11.15	184.94
	5.75	12.12	7.45	9.39	4.05	16.81
	-60.62	-7.25	-46.94	-26.50	-84.06	12.00
	-84.87	-12.89	-65.72	-38.47	-117.69	12.69
	-84.87	-12.89	-65.72	-38.47	-117.69	12.69
	-60.62	-11.16	-46.94	-28.46	-84.06	6.13
	-2.07	12.12	3.54	9.39	-7.68	16.81
	14.39	133.36	57.52	103.27	-28.75	184.94
2.90	25.86	131.16	62.44	101.59	-10.71	181.88
	5.73	11.92	7.36	9.24	4.09	16.53
	-59.62	-7.14	-46.18	-26.07	-82.67	11.80
	-83.46	-12.73	-64.65	-37.87	-115.74	12.42
	-83.46	-12.73	-64.65	-37.87	-115.74	12.42
	-59.62	-11.05	-46.18	-28.03	-82.67	5.94
	-2.09	11.92	3.45	9.24	-7.64	16.53
	14.13	131.16	56.57	101.59	-28.31	181.88
2.95	25.62	129.03	61.52	99.96	-10.29	178.93
	5.71	11.73	7.28	9.09	4.13	16.27
	-58.65	-7.02	-45.44	-25.66	-81.33	11.61
	-82.11	-12.57	-63.61	-37.29	-113.86	12.15
	-82.11	-12.57	-63.61	-37.29	-113.86	12.15
	-58.65	-10.93	-45.44	-27.61	-81.33	5.74
	-2.11	11.73	3.37	9.09	-7.60	16.27
	13.89	129.03	55.66	99.96	-27.88	178.93
3.00	25.38	126.97	60.64	98.39	-9.88	176.07

	5.68	11.54	7.20	8.94	4.17	16.01
	-57.71	-6.92	-44.72	-25.25	-80.03	11.42
	-80.80	-12.42	-62.61	-36.72	-112.04	11.88
	-80.80	-12.42	-62.61	-36.72	-112.04	11.88
	-57.71	-10.83	-44.72	-27.21	-80.03	5.56
	-2.14	11.54	3.29	8.94	-7.56	16.01
	13.65	126.97	54.78	98.39	-27.47	176.07
3.05	25.15	124.98	59.79	96.86	-9.48	173.30
	5.66	11.36	7.12	8.81	4.20	15.75
	-56.81	-6.81	-44.03	-24.86	-78.77	11.24
	-79.53	-12.27	-61.64	-36.18	-110.28	11.63
	-79.53	-12.27	-61.64	-36.18	-110.28	11.63
	-56.81	-10.72	-44.03	-26.82	-78.77	5.38
	-2.16	11.36	3.21	8.81	-7.53	15.75
	13.42	124.98	53.92	96.86	-27.08	173.30
3.10	24.40	122.52	58.43	94.86	-9.63	169.91
	5.60	11.14	7.00	8.62	4.19	15.45
	-55.69	-6.47	-43.12	-24.25	-77.23	11.31
	-77.97	-11.79	-60.36	-35.31	-108.13	11.73
	-77.97	-11.79	-60.36	-35.31	-108.13	11.73
	-55.69	-10.38	-43.12	-26.20	-77.23	5.44
	-2.23	11.14	3.09	8.62	-7.54	15.45
	12.67	122.52	52.56	94.86	-27.22	169.91
3.15	24.19	120.66	57.63	93.44	-9.25	167.33
	5.58	10.97	6.93	8.49	4.22	15.21
	-54.85	-6.37	-42.47	-23.89	-76.06	11.14
	-76.78	-11.66	-59.46	-34.81	-106.48	11.48
	-76.78	-11.66	-59.46	-34.81	-106.48	11.48
	-54.85	-10.29	-42.47	-25.84	-76.06	5.27
	-2.24	10.97	3.02	8.49	-7.51	15.21
	12.46	120.66	51.77	93.44	-26.85	167.33
3.20	23.99	118.86	56.86	92.06	-8.88	164.83
	5.56	10.81	6.86	8.37	4.26	14.98
	-54.03	-6.28	-41.85	-23.54	-74.92	10.97
	-75.64	-11.53	-58.59	-34.32	-104.89	11.25
	-75.64	-11.53	-58.59	-34.32	-104.89	11.25
	-54.03	-10.19	-41.85	-25.49	-74.92	5.10
	-2.26	10.81	2.95	8.37	-7.47	14.98
	12.26	118.86	51.00	92.06	-26.48	164.83
3.25	23.80	117.12	56.12	90.73	-8.53	162.41
	5.54	10.65	6.79	8.25	4.29	14.76
	-53.23	-6.19	-41.24	-23.20	-73.82	10.81
	-74.53	-11.41	-57.74	-33.84	-103.35	11.02
	-74.53	-11.41	-57.74	-33.84	-103.35	11.02
	-53.23	-10.11	-41.24	-25.15	-73.82	4.94

	-2.28	10.65	2.88	8.25	-7.44	14.76
	12.06	117.12	50.25	90.73	-26.12	162.41
3.30	23.61	115.43	55.39	89.44	-8.18	160.06
	5.52	10.49	6.72	8.13	4.32	14.55
	-52.47	-6.11	-40.65	-22.87	-72.75	10.65
	-73.45	-11.29	-56.92	-33.38	-101.86	10.80
	-73.45	-11.29	-56.92	-33.38	-101.86	10.80
	-52.47	-10.02	-40.65	-24.82	-72.75	4.78
	-2.30	10.49	2.81	8.13	-7.41	14.55
	11.88	115.43	49.53	89.44	-25.78	160.06
	22.81	113.17	54.08	87.58	-8.46	156.96
3.35	5.45	10.29	6.61	7.96	4.30	14.27
	-51.44	-5.75	-39.81	-22.27	-71.34	10.78
	-72.02	-10.78	-55.73	-32.55	-99.88	10.98
	-72.02	-10.78	-55.73	-32.55	-99.88	10.98
	-51.44	-9.66	-39.81	-24.23	-71.34	4.91
	-2.37	10.29	2.69	7.96	-7.43	14.27
	11.08	113.17	48.22	87.58	-26.05	156.96
	22.64	111.59	53.41	86.37	-8.12	154.76
3.40	5.44	10.14	6.54	7.85	4.33	14.07
	-50.72	-5.67	-39.26	-21.97	-70.34	10.62
	-71.01	-10.68	-54.96	-32.12	-98.48	10.77
	-71.01	-10.68	-54.96	-32.12	-98.48	10.77
	-50.72	-9.58	-39.26	-23.92	-70.34	4.76
	-2.39	10.14	2.63	7.85	-7.40	14.07
	10.91	111.59	47.54	86.37	-25.72	154.76
	22.48	110.05	52.76	85.20	-7.80	152.62
3.45	5.42	10.00	6.48	7.75	4.36	13.87
	-50.02	-5.60	-38.73	-21.67	-69.37	10.48
	-70.03	-10.57	-54.22	-31.71	-97.12	10.56
	-70.03	-10.57	-54.22	-31.71	-97.12	10.56
	-50.02	-9.51	-38.73	-23.63	-69.37	4.61
	-2.40	10.00	2.57	7.75	-7.37	13.87
	10.75	110.05	46.89	85.20	-25.39	152.62
	22.32	108.56	52.13	84.06	-7.48	150.55
3.50	5.41	9.87	6.43	7.64	4.39	13.69
	-49.35	-5.53	-38.21	-21.38	-68.43	10.33
	-69.08	-10.47	-53.49	-31.31	-95.80	10.36
	-69.08	-10.47	-53.49	-31.31	-95.80	10.36
	-49.35	-9.44	-38.21	-23.34	-68.43	4.47
	-2.41	9.87	2.52	7.64	-7.35	13.69
	10.59	108.56	46.26	84.06	-25.08	150.55
	21.73	106.67	51.07	82.52	-7.61	147.95
3.55	5.35	9.70	6.33	7.50	4.37	13.45
	-48.49	-5.26	-37.51	-20.91	-67.25	10.39

	-67.88	-10.10	-52.51	-30.64	-94.15	10.44
	-67.88	-10.10	-52.51	-30.64	-94.15	10.44
	-48.49	-9.17	-37.51	-22.86	-67.25	4.53
	-2.47	9.70	2.42	7.50	-7.36	13.45
	10.00	106.67	45.21	82.52	-25.21	147.95
3.60	21.59	105.27	50.48	81.45	-7.31	145.99
	5.34	9.57	6.28	7.40	4.40	13.27
	-47.85	-5.19	-37.02	-20.64	-66.36	10.25
	-66.99	-10.00	-51.83	-30.26	-92.90	10.25
	-66.99	-10.00	-51.83	-30.26	-92.90	10.25
	-47.85	-9.10	-37.02	-22.59	-66.36	4.39
	-2.48	9.57	2.37	7.40	-7.33	13.27
	9.86	105.27	44.62	81.45	-24.90	145.99
3.65	21.45	103.90	49.90	80.40	-7.01	144.09
	5.33	9.45	6.23	7.31	4.43	13.10
	-47.23	-5.13	-36.55	-20.37	-65.50	10.12
	-66.12	-9.91	-51.17	-29.89	-91.69	10.06
	-66.12	-9.91	-51.17	-29.89	-91.69	10.06
	-47.23	-9.04	-36.55	-22.33	-65.50	4.25
	-2.49	9.45	2.31	7.31	-7.30	13.10
	9.71	103.90	44.04	80.40	-24.61	144.09
3.70	21.31	102.57	49.34	79.39	-6.72	142.24
	5.31	9.32	6.17	7.22	4.45	12.93
	-46.62	-5.06	-36.09	-20.12	-64.66	9.99
	-65.27	-9.83	-50.52	-29.53	-90.52	9.88
	-65.27	-9.83	-50.52	-29.53	-90.52	9.88
	-46.62	-8.97	-36.09	-22.07	-64.66	4.12
	-2.51	9.32	2.26	7.22	-7.28	12.93
	9.58	102.57	43.48	79.39	-24.32	142.24
3.75	21.18	101.27	48.80	78.41	-6.44	140.45
	5.30	9.21	6.12	7.13	4.48	12.77
	-46.03	-5.00	-35.64	-19.87	-63.84	9.86
	-64.45	-9.74	-49.89	-29.19	-89.37	9.70
	-64.45	-9.74	-49.89	-29.19	-89.37	9.70
	-46.03	-8.91	-35.64	-21.82	-63.84	4.00
	-2.52	9.21	2.21	7.13	-7.25	12.77
	9.44	101.27	42.93	78.41	-24.04	140.45
3.80	21.05	100.01	48.26	77.45	-6.17	138.69
	5.29	9.09	6.08	7.04	4.50	12.61
	-45.46	-4.95	-35.20	-19.63	-63.04	9.74
	-63.64	-9.66	-49.28	-28.85	-88.26	9.53
	-63.64	-9.66	-49.28	-28.85	-88.26	9.53
	-45.46	-8.86	-35.20	-21.58	-63.04	3.87
	-2.53	9.09	2.17	7.04	-7.23	12.61
	9.32	100.01	42.40	77.45	-23.77	138.69

3.85	20.92	98.78	47.75	76.51	-5.91	136.99
	5.28	8.98	6.03	6.96	4.53	12.45
	-44.90	-4.89	-34.78	-19.39	-62.27	9.62
	-62.86	-9.58	-48.69	-28.52	-87.18	9.36
	-62.86	-9.58	-48.69	-28.52	-87.18	9.36
	-44.90	-8.80	-34.78	-21.35	-62.27	3.75
	-2.54	8.98	2.12	6.96	-7.20	12.45
	9.19	98.78	41.88	76.51	-23.50	136.99
3.90	20.80	97.59	47.24	75.60	-5.65	135.33
	5.27	8.87	5.98	6.87	4.55	12.30
	-44.36	-4.83	-34.36	-19.16	-61.51	9.50
	-62.10	-9.50	-48.11	-28.20	-86.12	9.19
	-62.10	-9.50	-48.11	-28.20	-86.12	9.19
	-44.36	-8.74	-34.36	-21.12	-61.51	3.63
	-2.55	8.87	2.07	6.87	-7.18	12.30
	9.07	97.59	41.38	75.60	-23.24	135.33
3.95	20.68	96.42	46.75	74.71	-5.39	133.71
	5.26	8.77	5.94	6.79	4.58	12.16
	-43.83	-4.78	-33.96	-18.94	-60.78	9.38
	-61.36	-9.43	-47.55	-27.89	-85.09	9.03
	-61.36	-9.43	-47.55	-27.89	-85.09	9.03
	-43.83	-8.69	-33.96	-20.90	-60.78	3.52
	-2.56	8.77	2.03	6.79	-7.16	12.16
	8.95	96.42	40.89	74.71	-22.99	133.71
4.00	20.47	95.19	46.18	73.76	-5.24	132.01
	5.24	8.65	5.89	6.71	4.59	12.00
	-43.27	-4.68	-33.53	-18.68	-60.00	9.31
	-60.58	-9.29	-46.94	-27.52	-84.00	8.93
	-60.58	-9.29	-46.94	-27.52	-84.00	8.93
	-43.27	-8.59	-33.53	-20.64	-60.00	3.45
	-2.58	8.65	1.98	6.71	-7.14	12.00
	8.74	95.19	40.32	73.76	-22.84	132.01
4.05	20.36	94.09	45.72	72.91	-5.00	130.47
	5.23	8.55	5.84	6.63	4.61	11.86
	-42.77	-4.63	-33.14	-18.47	-59.30	9.20
	-59.87	-9.22	-46.40	-27.23	-83.03	8.78
	-59.87	-9.22	-46.40	-27.23	-83.03	8.78
	-42.77	-8.54	-33.14	-20.42	-59.30	3.34
	-2.59	8.55	1.93	6.63	-7.12	11.86
	8.63	94.09	39.85	72.91	-22.60	130.47
4.10	20.25	93.01	45.26	72.09	-4.76	128.97
	5.22	8.46	5.80	6.55	4.63	11.72
	-42.28	-4.58	-32.77	-18.26	-58.62	9.10
	-59.19	-9.15	-45.88	-26.94	-82.07	8.63
	-59.19	-9.15	-45.88	-26.94	-82.07	8.63

	-42.28	-8.49	-32.77	-20.22	-58.62	3.23
	-2.60	8.46	1.89	6.55	-7.10	11.72
	8.52	93.01	39.40	72.09	-22.36	128.97
4.15	20.14	91.95	44.82	71.29	-4.53	127.51
	5.21	8.36	5.76	6.48	4.65	11.59
	-41.80	-4.53	-32.41	-18.06	-57.96	8.99
	-58.52	-9.09	-45.37	-26.65	-81.14	8.48
	-58.52	-9.09	-45.37	-26.65	-81.14	8.48
	-41.80	-8.44	-32.41	-20.02	-57.96	3.13
	-2.61	8.36	1.85	6.48	-7.08	11.59
	8.41	91.95	38.95	71.29	-22.13	127.51
	20.04	90.93	44.39	70.51	-4.31	126.08
4.20	5.20	8.27	5.72	6.41	4.67	11.46
	-41.33	-4.49	-32.05	-17.87	-57.31	8.89
	-57.86	-9.02	-44.87	-26.38	-80.23	8.34
	-57.86	-9.02	-44.87	-26.38	-80.23	8.34
	-41.33	-8.40	-32.05	-19.82	-57.31	3.02
	-2.62	8.27	1.81	6.41	-7.06	11.46
	8.31	90.93	38.52	70.51	-21.90	126.08
	19.94	89.92	43.96	69.75	-4.09	124.68
4.25	5.19	8.17	5.69	6.34	4.69	11.33
	-40.87	-4.44	-31.70	-17.67	-56.67	8.79
	-57.22	-8.96	-44.38	-26.11	-79.34	8.20
	-57.22	-8.96	-44.38	-26.11	-79.34	8.20
	-40.87	-8.35	-31.70	-19.63	-56.67	2.92
	-2.63	8.17	1.78	6.34	-7.04	11.33
	8.21	89.92	38.10	69.75	-21.68	124.68
	19.84	88.94	43.55	69.00	-3.87	123.32
4.30	5.18	8.09	5.65	6.27	4.71	11.21
	-40.43	-4.40	-31.36	-17.49	-56.06	8.69
	-56.60	-8.89	-43.91	-25.85	-78.48	8.06
	-56.60	-8.89	-43.91	-25.85	-78.48	8.06
	-40.43	-8.31	-31.36	-19.44	-56.06	2.83
	-2.64	8.09	1.74	6.27	-7.02	11.21
	8.11	88.94	37.69	69.00	-21.47	123.32
	19.32	87.56	42.72	67.84	-4.09	121.41
4.35	5.13	7.96	5.57	6.17	4.69	11.04
	-39.80	-4.16	-30.84	-17.11	-55.19	8.79
	-55.72	-8.56	-43.17	-25.32	-77.26	8.20
	-55.72	-8.56	-43.17	-25.32	-77.26	8.20
	-39.80	-8.07	-30.84	-19.06	-55.19	2.93
	-2.69	7.96	1.66	6.17	-7.04	11.04
	7.58	87.56	36.86	67.84	-21.69	121.41
	19.23	86.62	42.33	67.14	-3.88	120.12
4.40	5.13	7.87	5.54	6.10	4.71	10.92

	-39.37	-4.12	-30.52	-16.93	-54.60	8.70
	-55.12	-8.50	-42.72	-25.07	-76.44	8.07
	-55.12	-8.50	-42.72	-25.07	-76.44	8.07
	-39.37	-8.03	-30.52	-18.89	-54.60	2.83
	-2.70	7.87	1.63	6.10	-7.02	10.92
	7.50	86.62	36.47	67.14	-21.48	120.12
4.45	19.14	85.72	41.96	66.45	-3.67	118.86
	5.12	7.79	5.50	6.04	4.73	10.81
	-38.96	-4.08	-30.20	-16.76	-54.03	8.60
	-54.55	-8.45	-42.28	-24.83	-75.64	7.94
	-54.55	-8.45	-42.28	-24.83	-75.64	7.94
	-38.96	-7.99	-30.20	-18.72	-54.03	2.74
	-2.70	7.79	1.59	6.04	-7.00	10.81
	7.41	85.72	36.09	66.45	-21.27	118.86
4.50	19.06	84.83	41.58	65.77	-3.47	117.62
	5.11	7.71	5.47	5.98	4.75	10.69
	-38.56	-4.04	-29.90	-16.59	-53.46	8.51
	-53.98	-8.39	-41.85	-24.60	-74.85	7.81
	-53.98	-8.39	-41.85	-24.60	-74.85	7.81
	-38.56	-7.95	-29.90	-18.55	-53.46	2.64
	-2.71	7.71	1.56	5.98	-6.98	10.69
	7.33	84.83	35.72	65.77	-21.07	117.62

En la Tabla 2 se muestran las combinaciones de esfuerzos para el cordón superior en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 2. Combinación de esfuerzos del cordón superior - 8 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)
0.50	-0.98	0.00	-0.49	0.00	-1.47	0.00
	367.39	1188.91	659.52	970.64	75.25	1640.61
	630.50	2038.13	1130.96	1663.95	130.05	2812.48
	788.37	2547.66	1413.82	2079.94	162.93	3515.60
	790.33	2547.66	1414.80	2079.94	165.86	3515.60
	632.46	2038.13	1131.93	1663.95	132.98	2812.48
	369.34	1188.91	660.50	970.64	78.18	1640.61
	0.00	0.98	0.00	0.49	0.00	1.47
0.55	-0.98	0.00	-0.49	0.00	-1.47	0.00
	291.43	1038.36	557.05	839.93	25.81	1434.14
	500.29	1780.04	955.30	1439.88	45.29	2458.52
	625.61	2225.05	1194.24	1799.85	56.98	3073.15
	627.57	2225.05	1195.22	1799.85	59.91	3073.15
	502.25	1780.04	956.27	1439.88	48.22	2458.52

	293.39	1038.36	558.03	839.93	28.74	1434.14
	0.00	0.98	0.00	0.49	0.00	1.47
0.60	-0.98	0.00	-0.49	0.00	-1.47	0.00
	252.01	936.78	495.54	754.88	8.48	1294.30
	432.72	1605.90	849.84	1294.09	15.59	2218.81
	541.14	2007.38	1062.43	1617.61	19.85	2773.51
	543.10	2007.38	1063.41	1617.61	22.79	2773.51
	434.67	1605.90	850.82	1294.09	18.52	2218.81
	253.97	936.78	496.52	754.88	11.42	1294.30
	0.00	0.98	0.00	0.49	0.00	1.47
	-0.98	0.00	-0.49	0.00	-1.47	0.00
0.65	210.48	842.64	435.31	674.74	-14.35	1164.95
	361.52	1444.53	746.60	1156.70	-23.56	1997.05
	452.14	1805.67	933.37	1445.88	-29.08	2496.31
	454.10	1805.67	934.35	1445.88	-26.15	2496.31
	363.47	1444.53	747.57	1156.70	-20.63	1997.05
	212.43	842.64	436.29	674.74	-11.42	1164.95
	0.00	0.98	0.00	0.49	0.00	1.47
	-0.98	0.00	-0.49	0.00	-1.47	0.00
	185.89	772.97	394.70	617.07	-22.92	1068.93
0.70	319.37	1325.10	676.98	1057.83	-38.24	1832.46
	399.46	1656.37	846.35	1322.28	-47.43	2290.57
	401.41	1656.37	847.32	1322.28	-44.50	2290.57
	321.33	1325.10	677.96	1057.83	-35.30	1832.46
	187.85	772.97	395.68	617.07	-19.98	1068.93
	0.00	0.98	0.00	0.49	0.00	1.47
	-0.98	0.00	-0.49	0.00	-1.47	0.00
	165.11	713.12	360.03	567.60	-29.81	986.43
	283.74	1222.49	617.54	973.03	-50.06	1691.03
0.75	354.92	1528.11	772.05	1216.29	-62.20	2113.78
	356.88	1528.11	773.03	1216.29	-59.27	2113.78
	285.70	1222.49	618.52	973.03	-47.12	1691.03
	167.06	713.12	361.01	567.60	-26.88	986.43
	0.00	0.98	0.00	0.49	0.00	1.47
	-0.98	0.00	-0.49	0.00	-1.47	0.00
	152.51	666.33	335.28	529.91	-30.26	921.79
	262.14	1142.28	575.11	908.42	-50.82	1580.20
	327.93	1427.85	719.01	1135.52	-63.16	1975.26
0.80	329.88	1427.85	719.99	1135.52	-60.23	1975.26
	264.10	1142.28	576.09	908.42	-47.89	1580.20
	154.47	666.33	336.26	529.91	-27.32	921.79
	0.00	0.98	0.00	0.49	0.00	1.47
	-0.98	0.00	-0.49	0.00	-1.47	0.00
	133.85	617.50	305.90	489.11	-38.19	854.56
	230.16	1058.58	524.74	838.47	-64.43	1464.96

	287.94	1323.22	656.05	1048.09	-80.17	1831.20
	289.90	1323.22	657.03	1048.09	-77.24	1831.20
	232.11	1058.58	525.72	838.47	-61.50	1464.96
	135.81	617.50	306.87	489.11	-35.26	854.56
	0.00	0.98	0.00	0.49	0.00	1.47
0.90	-0.98	0.00	-0.49	0.00	-1.47	0.00
	121.80	578.64	284.32	457.38	-40.71	800.93
	209.50	991.95	487.75	784.07	-68.75	1373.03
	262.12	1239.94	609.81	980.09	-85.57	1716.28
	264.08	1239.94	610.79	980.09	-82.63	1716.28
	211.46	991.95	488.73	784.07	-65.81	1373.03
	123.76	578.64	285.29	457.38	-37.78	800.93
	0.00	0.98	0.00	0.49	0.00	1.47
0.95	-0.98	0.00	-0.49	0.00	-1.47	0.00
	113.59	546.43	267.57	431.55	-40.40	756.41
	195.42	936.74	459.05	739.80	-68.21	1296.70
	244.52	1170.92	573.93	924.75	-84.90	1620.88
	246.47	1170.92	574.91	924.75	-81.96	1620.88
	197.37	936.74	460.02	739.80	-65.28	1296.70
	115.54	546.43	268.55	431.55	-37.47	756.41
	0.00	0.98	0.00	0.49	0.00	1.47
1.00	-0.98	0.00	-0.49	0.00	-1.47	0.00
	102.86	514.11	249.18	404.98	-43.45	711.85
	177.04	881.34	427.51	694.25	-73.44	1220.31
	221.54	1101.67	534.51	867.81	-91.43	1525.39
	223.50	1101.67	535.49	867.81	-88.49	1525.39
	178.99	881.34	428.49	694.25	-70.50	1220.31
	104.82	514.11	250.15	404.98	-40.52	711.85
	0.00	0.98	0.00	0.49	0.00	1.47
1.05	-0.98	0.00	-0.49	0.00	-1.47	0.00
	91.65	483.36	231.01	379.42	-47.72	669.48
	157.80	828.61	396.37	650.43	-80.76	1147.68
	197.50	1035.77	495.59	813.04	-100.59	1434.60
	199.46	1035.77	496.56	813.04	-97.65	1434.60
	159.76	828.61	397.35	650.43	-77.83	1147.68
	93.60	483.36	231.99	379.42	-44.79	669.48
	0.00	0.98	0.00	0.49	0.00	1.47
1.10	-0.98	0.00	-0.49	0.00	-1.47	0.00
	87.59	461.55	220.65	362.33	-45.46	639.26
	150.86	791.22	378.60	621.14	-76.89	1095.88
	188.82	989.03	473.38	776.42	-95.74	1369.85
	190.77	989.03	474.35	776.42	-92.81	1369.85
	152.81	791.22	379.58	621.14	-73.96	1095.88
	89.55	461.55	221.63	362.33	-42.53	639.26
	0.00	0.98	0.00	0.49	0.00	1.47

1.15	-0.98	0.00	-0.49	0.00	-1.47	0.00
	84.00	441.74	211.30	346.84	-43.29	611.82
	144.71	757.27	362.57	594.58	-73.16	1048.84
	181.13	946.59	453.34	743.23	-91.08	1311.05
	183.08	946.59	454.31	743.23	-88.15	1311.05
	146.66	757.27	363.55	594.58	-70.23	1048.84
	85.96	441.74	212.27	346.84	-40.35	611.82
	0.00	0.98	0.00	0.49	0.00	1.47
1.20	-0.98	0.00	-0.49	0.00	-1.47	0.00
	78.96	421.83	200.97	330.89	-43.05	584.30
	136.06	723.14	344.87	567.23	-72.75	1001.66
	170.32	903.93	431.21	709.04	-90.57	1252.08
	172.28	903.93	432.19	709.04	-87.63	1252.08
	138.02	723.14	345.85	567.23	-69.81	1001.66
	80.92	421.83	201.95	330.89	-40.11	584.30
	0.00	0.98	0.00	0.49	0.00	1.47
1.25	-0.98	0.00	-0.49	0.00	-1.47	0.00
	72.04	401.23	189.18	313.92	-45.11	555.90
	124.19	687.83	324.66	538.15	-76.29	952.97
	155.48	859.78	405.95	672.69	-94.99	1191.21
	157.44	859.78	406.93	672.69	-92.06	1191.21
	126.14	687.83	325.64	538.15	-73.35	952.97
	73.99	401.23	190.16	313.92	-42.18	555.90
	0.00	0.98	0.00	0.49	0.00	1.47
1.30	-0.98	0.00	-0.49	0.00	-1.47	0.00
	64.53	381.10	177.19	297.15	-48.13	528.18
	111.32	653.32	304.11	509.41	-81.46	905.45
	139.40	816.65	380.26	636.76	-101.46	1131.81
	141.36	816.65	381.23	636.76	-98.52	1131.81
	113.28	653.32	305.09	509.41	-78.53	905.45
	66.49	381.10	178.17	297.15	-45.20	528.18
	0.00	0.98	0.00	0.49	0.00	1.47
1.35	-0.98	0.00	-0.49	0.00	-1.47	0.00
	62.33	367.21	170.84	286.37	-46.17	508.92
	107.55	629.51	293.21	490.93	-78.11	872.43
	134.68	786.89	366.64	613.66	-97.27	1090.54
	136.64	786.89	367.62	613.66	-94.34	1090.54
	109.51	629.51	294.19	490.93	-75.18	872.43
	64.29	367.21	171.82	286.37	-43.24	508.92
	0.00	0.98	0.00	0.49	0.00	1.47
1.40	-0.98	0.00	-0.49	0.00	-1.47	0.00
	60.20	354.23	164.85	276.28	-44.45	490.92
	103.90	607.25	282.95	473.62	-75.15	841.58
	130.12	759.06	353.81	592.02	-93.57	1051.97
	132.07	759.06	354.78	592.02	-90.64	1051.97

	105.85	607.25	283.92	473.62	-72.22	841.58
	62.16	354.23	165.83	276.28	-41.52	490.92
	0.00	0.98	0.00	0.49	0.00	1.47
1.45	-0.98	0.00	-0.49	0.00	-1.47	0.00
	58.31	342.23	159.36	266.96	-42.75	474.28
	100.65	586.68	273.54	457.65	-72.24	813.06
	126.06	733.35	342.05	572.07	-89.93	1016.32
	128.01	733.35	343.03	572.07	-87.00	1016.32
	102.61	586.68	274.52	457.65	-69.31	813.06
	60.26	342.23	160.34	266.96	-39.82	474.28
	0.00	0.98	0.00	0.49	0.00	1.47
		-0.98	0.00	-0.49	0.00	-1.47
1.50	55.03	329.52	152.73	256.76	-42.68	456.72
	95.03	564.89	262.18	440.17	-72.11	782.94
	119.04	706.12	327.84	550.21	-89.77	978.68
	120.99	706.12	328.82	550.21	-86.84	978.68
	96.99	564.89	263.15	440.17	-69.18	782.94
	56.98	329.52	153.71	256.76	-39.74	456.72
	0.00	0.98	0.00	0.49	0.00	1.47
		-0.98	0.00	-0.49	0.00	-1.47
1.55	51.59	317.26	146.15	246.85	-42.98	439.78
	89.13	543.87	250.90	423.16	-72.64	753.90
	111.66	679.83	313.75	528.95	-90.43	942.38
	113.61	679.83	314.72	528.95	-87.50	942.38
	91.09	543.87	251.88	423.16	-69.70	753.90
	53.54	317.26	147.13	246.85	-40.05	439.78
	0.00	0.98	0.00	0.49	0.00	1.47
		-0.98	0.00	-0.49	0.00	-1.47
1.60	49.01	306.41	140.64	238.20	-42.62	424.77
	84.71	525.27	241.44	408.34	-72.02	728.18
	106.14	656.58	301.92	510.42	-89.65	910.22
	108.09	656.58	302.90	510.42	-86.72	910.22
	86.67	525.27	242.42	408.34	-69.08	728.18
	50.96	306.41	141.61	238.20	-39.69	424.77
	0.00	0.98	0.00	0.49	0.00	1.47
		-0.98	0.00	-0.49	0.00	-1.47
1.65	46.24	295.87	135.11	229.73	-42.62	410.21
	79.97	507.21	231.97	393.82	-72.02	703.22
	100.21	634.01	290.08	492.27	-89.66	879.02
	102.17	634.01	291.06	492.27	-86.73	879.02
	81.93	507.21	232.94	393.82	-69.09	703.22
	48.20	295.87	136.09	229.73	-39.69	410.21
	0.00	0.98	0.00	0.49	0.00	1.47
		-0.98	0.00	-0.49	0.00	-1.47
1.70	45.04	287.35	131.31	223.16	-41.23	398.39

	77.91	492.60	225.44	382.55	-69.63	682.96
	97.63	615.76	281.93	478.19	-86.67	853.70
	99.58	615.76	282.91	478.19	-83.74	853.70
	79.86	492.60	226.42	382.55	-66.70	682.96
	46.99	287.35	132.28	223.16	-38.30	398.39
	0.00	0.98	0.00	0.49	0.00	1.47
1.75	-0.98	0.00	-0.49	0.00	-1.47	0.00
	43.90	279.32	127.72	216.96	-39.91	387.25
	75.96	478.84	219.30	371.93	-67.37	663.86
	95.20	598.55	274.25	464.91	-83.85	829.83
	97.15	598.55	275.22	464.91	-80.92	829.83
	77.92	478.84	220.28	371.93	-64.44	663.86
	45.86	279.32	128.70	216.96	-36.98	387.25
	0.00	0.98	0.00	0.49	0.00	1.47
1.80	-0.98	0.00	-0.49	0.00	-1.47	0.00
	41.25	270.16	122.76	209.53	-40.25	374.60
	71.42	463.13	210.79	359.19	-67.95	642.17
	89.52	578.91	263.61	448.99	-84.57	802.72
	91.47	578.91	264.58	448.99	-81.64	802.72
	73.37	463.13	211.76	359.19	-65.02	642.17
	43.21	270.16	123.73	209.53	-37.32	374.60
	0.00	0.98	0.00	0.49	0.00	1.47
1.85	-0.98	0.00	-0.49	0.00	-1.47	0.00
	40.21	262.96	119.53	203.97	-39.10	364.62
	69.64	450.79	205.25	349.66	-65.98	625.05
	87.29	563.49	256.69	437.08	-82.11	781.32
	89.25	563.49	257.66	437.08	-79.17	781.32
	71.59	450.79	206.23	349.66	-63.04	625.05
	42.17	262.96	120.50	203.97	-36.17	364.62
	0.00	0.98	0.00	0.49	0.00	1.47
1.90	-0.98	0.00	-0.49	0.00	-1.47	0.00
	39.30	256.21	116.54	198.77	-37.94	355.25
	68.07	439.22	200.13	340.75	-63.99	609.00
	85.33	549.02	250.29	425.94	-79.62	761.25
	87.29	549.02	251.26	425.94	-76.68	761.25
	70.03	439.22	201.11	340.75	-61.05	609.00
	41.26	256.21	117.52	198.77	-35.00	355.25
	0.00	0.98	0.00	0.49	0.00	1.47
1.95	-0.98	0.00	-0.49	0.00	-1.47	0.00
	38.44	249.81	113.71	193.84	-36.83	346.37
	66.59	428.25	195.27	332.30	-62.10	593.77
	83.48	535.31	244.22	415.38	-77.25	742.22
	85.44	535.31	245.19	415.38	-74.32	742.22
	68.54	428.25	196.25	332.30	-59.16	593.77
	40.39	249.81	114.68	193.84	-33.90	346.37

	0.00	0.98	0.00	0.49	0.00	1.47
2.00	-0.98	0.00	-0.49	0.00	-1.47	0.00
	37.62	243.73	111.02	189.16	-35.78	337.93
	65.18	417.82	190.66	324.28	-60.30	579.31
	81.72	522.28	238.45	405.35	-75.00	724.14
	83.68	522.28	239.43	405.35	-72.07	724.14
	67.14	417.82	191.64	324.28	-57.36	579.31
	39.57	243.73	111.99	189.16	-32.85	337.93
	0.00	0.98	0.00	0.49	0.00	1.47
2.05	-0.98	0.00	-0.49	0.00	-1.47	0.00
	35.98	237.09	107.60	183.85	-35.65	328.75
	62.37	406.43	184.80	315.17	-60.06	563.57
	78.21	508.04	231.13	393.96	-74.71	704.46
	80.16	508.04	232.10	393.96	-71.78	704.46
	64.33	406.43	185.78	315.17	-57.13	563.57
	37.93	237.09	108.58	183.85	-32.71	328.75
	0.00	0.98	0.00	0.49	0.00	1.47
2.10	-0.98	0.00	-0.49	0.00	-1.47	0.00
	35.25	231.60	105.18	179.63	-34.68	321.13
	61.13	397.02	180.66	307.93	-58.40	550.51
	76.66	496.28	225.94	384.92	-72.63	688.13
	78.61	496.28	226.92	384.92	-69.70	688.13
	63.08	397.02	181.64	307.93	-55.47	550.51
	37.21	231.60	106.16	179.63	-31.74	321.13
	0.00	0.98	0.00	0.49	0.00	1.47
2.15	-0.98	0.00	-0.49	0.00	-1.47	0.00
	33.24	225.04	101.55	174.28	-35.08	312.08
	57.68	385.78	174.44	298.76	-59.08	534.99
	72.34	482.23	218.17	373.45	-73.49	668.74
	74.30	482.23	219.15	373.45	-70.55	668.74
	59.63	385.78	175.41	298.76	-56.15	534.99
	35.19	225.04	102.53	174.28	-32.14	312.08
	0.00	0.98	0.00	0.49	0.00	1.47
2.20	-0.98	0.00	-0.49	0.00	-1.47	0.00
	32.61	220.08	99.38	170.47	-34.16	305.19
	56.60	377.27	170.72	292.23	-57.52	523.18
	71.00	471.59	213.52	365.29	-71.53	653.98
	72.95	471.59	214.50	365.29	-68.59	653.98
	58.56	377.27	171.70	292.23	-54.58	523.18
	34.57	220.08	100.36	170.47	-31.23	305.19
	0.00	0.98	0.00	0.49	0.00	1.47
2.25	-0.98	0.00	-0.49	0.00	-1.47	0.00
	31.21	214.53	96.51	166.03	-34.09	297.52
	54.20	367.77	165.79	284.61	-57.39	510.04
	67.99	459.71	207.36	355.77	-71.37	637.55

	69.95	459.71	208.34	355.77	-68.44	637.55
	56.15	367.77	166.77	284.61	-54.46	510.04
	33.16	214.53	97.49	166.03	-31.16	297.52
	0.00	0.98	0.00	0.49	0.00	1.47
2.30	-0.98	0.00	-0.49	0.00	-1.47	0.00
	30.65	210.01	94.54	162.56	-33.24	291.25
	53.24	360.01	162.42	278.67	-55.93	499.28
	66.80	450.02	203.15	348.34	-69.55	624.10
	68.75	450.02	204.12	348.34	-66.62	624.10
	55.20	360.01	163.40	278.67	-53.00	499.28
	32.61	210.01	95.52	162.56	-30.31	291.25
	0.00	0.98	0.00	0.49	0.00	1.47
2.35	-0.98	0.00	-0.49	0.00	-1.47	0.00
	30.12	205.68	92.66	159.24	-32.42	285.24
	52.33	352.59	159.19	272.98	-54.54	488.98
	65.65	440.74	199.11	341.22	-67.80	611.22
	67.61	440.74	200.09	341.22	-64.87	611.22
	54.28	352.59	160.17	272.98	-51.60	488.98
	32.07	205.68	93.64	159.24	-29.49	285.24
	0.00	0.98	0.00	0.49	0.00	1.47
2.40	-0.98	0.00	-0.49	0.00	-1.47	0.00
	29.61	201.53	90.86	156.06	-31.64	279.48
	51.45	345.48	156.10	267.53	-53.20	479.11
	64.56	431.85	195.25	334.41	-66.13	598.89
	66.51	431.85	196.23	334.41	-63.20	598.89
	53.41	345.48	157.08	267.53	-50.26	479.11
	31.56	201.53	91.83	156.06	-28.71	279.48
	0.00	0.98	0.00	0.49	0.00	1.47
2.45	-0.98	0.00	-0.49	0.00	-1.47	0.00
	29.12	197.55	89.13	153.01	-30.89	273.96
	50.61	338.66	153.14	262.30	-51.91	469.65
	63.51	423.33	191.54	327.87	-64.52	587.06
	65.47	423.33	192.52	327.87	-61.59	587.06
	52.57	338.66	154.11	262.30	-48.98	469.65
	31.07	197.55	90.10	153.01	-27.96	273.96
	0.00	0.98	0.00	0.49	0.00	1.47
2.50	-0.98	0.00	-0.49	0.00	-1.47	0.00
	28.65	193.74	87.47	150.08	-30.17	268.66
	49.81	332.12	150.29	257.28	-50.67	460.56
	62.51	415.15	187.99	321.60	-62.97	575.70
	64.46	415.15	188.97	321.60	-60.04	575.70
	51.77	332.12	151.27	257.28	-47.74	460.56
	30.60	193.74	88.45	150.08	-27.24	268.66
	0.00	0.98	0.00	0.49	0.00	1.47
2.55	-0.98	0.00	-0.49	0.00	-1.47	0.00

	28.20	190.07	85.87	147.27	-29.47	263.57
	49.04	325.83	147.56	252.46	-49.48	451.84
	61.55	407.29	184.58	315.58	-61.48	564.80
	63.50	407.29	185.55	315.58	-58.55	564.80
	51.00	325.83	148.54	252.46	-46.55	451.84
	30.16	190.07	86.85	147.27	-26.54	263.57
	0.00	0.98	0.00	0.49	0.00	1.47
2.60	-0.98	0.00	-0.49	0.00	-1.47	0.00
	27.77	186.54	84.34	144.57	-28.81	258.68
	48.30	319.79	144.94	247.83	-48.33	443.45
	60.62	399.74	181.30	309.79	-60.05	554.31
	62.58	399.74	182.27	309.79	-57.12	554.31
	50.26	319.79	145.92	247.83	-45.40	443.45
	29.72	186.54	85.32	144.57	-25.87	258.68
	0.00	0.98	0.00	0.49	0.00	1.47
2.65	-0.98	0.00	-0.49	0.00	-1.47	0.00
	26.28	182.08	81.80	140.89	-29.24	252.52
	45.75	312.13	140.57	241.53	-49.07	432.89
	57.43	390.17	175.84	301.92	-60.97	541.11
	59.39	390.17	176.82	301.92	-58.04	541.11
	47.71	312.13	141.55	241.53	-46.14	432.89
	28.24	182.08	82.77	140.89	-26.30	252.52
	0.00	0.98	0.00	0.49	0.00	1.47
2.70	-0.98	0.00	-0.49	0.00	-1.47	0.00
	25.90	178.83	80.40	138.41	-28.59	248.01
	45.10	306.57	138.18	237.28	-47.97	425.17
	56.62	383.21	172.84	296.60	-59.60	531.46
	58.58	383.21	173.82	296.60	-56.67	531.46
	47.06	306.57	139.16	237.28	-45.04	425.17
	27.86	178.83	81.38	138.41	-25.66	248.01
	0.00	0.98	0.00	0.49	0.00	1.47
2.75	-0.98	0.00	-0.49	0.00	-1.47	0.00
	25.49	175.65	79.00	135.97	-28.03	243.60
	44.39	301.12	135.78	233.09	-47.00	417.60
	55.73	376.40	169.85	291.36	-58.39	522.00
	57.68	376.40	170.82	291.36	-55.46	522.00
	46.34	301.12	136.76	233.09	-44.07	417.60
	27.44	175.65	79.98	135.97	-25.10	243.60
	0.00	0.98	0.00	0.49	0.00	1.47
2.80	-0.98	0.00	-0.49	0.00	-1.47	0.00
	25.14	172.64	77.70	133.66	-27.43	239.42
	43.79	295.95	133.56	229.14	-45.98	410.43
	54.98	369.94	167.07	286.42	-57.11	513.04
	56.93	369.94	168.05	286.42	-54.18	513.04
	45.74	295.95	134.53	229.14	-43.05	410.43

	27.09	172.64	78.68	133.66	-24.50	239.42	
	0.00	0.98	0.00	0.49	0.00	1.47	
2.85	-0.98	0.00	-0.49	0.00	-1.47	0.00	
	24.80	169.73	76.45	131.44	-26.86	235.38	
	43.21	290.97	131.41	225.32	-44.99	403.51	
	54.26	363.71	164.39	281.66	-55.87	504.39	
	56.21	363.71	165.37	281.66	-52.94	504.39	
	45.17	290.97	132.39	225.32	-42.06	403.51	
	26.75	169.73	77.43	131.44	-23.92	235.38	
	0.00	0.98	0.00	0.49	0.00	1.47	
		-0.98	0.00	-0.49	0.00	-1.47	0.00
2.90	24.48	166.93	75.25	129.29	-26.30	231.49	
	42.66	286.16	129.35	221.65	-44.03	396.83	
	53.56	357.70	161.80	277.06	-54.68	496.04	
	55.52	357.70	162.78	277.06	-51.74	496.04	
	44.61	286.16	130.32	221.65	-41.10	396.83	
	26.43	166.93	76.23	129.29	-23.36	231.49	
	0.00	0.98	0.00	0.49	0.00	1.47	
		-0.98	0.00	-0.49	0.00	-1.47	0.00
	2.95	24.16	164.22	74.08	127.22	-25.76	227.72
42.12		281.51	127.35	218.09	-43.11	390.38	
52.89		351.89	159.31	272.62	-53.52	487.98	
54.85		351.89	160.29	272.62	-50.59	487.98	
44.08		281.51	128.33	218.09	-40.18	390.38	
26.12		164.22	75.06	127.22	-22.83	227.72	
0.00		0.98	0.00	0.49	0.00	1.47	
		-0.98	0.00	-0.49	0.00	-1.47	0.00
3.00		23.86	161.60	72.96	125.22	-25.24	224.09
	41.60	277.02	125.42	214.66	-42.21	384.15	
	52.25	346.28	156.90	268.32	-52.40	480.18	
	54.20	346.28	157.87	268.32	-49.47	480.18	
	43.56	277.02	126.40	214.66	-39.28	384.15	
	25.82	161.60	73.94	125.22	-22.30	224.09	
	0.00	0.98	0.00	0.49	0.00	1.47	
		-0.98	0.00	-0.49	0.00	-1.47	0.00
	3.05	23.57	159.06	71.87	123.28	-24.73	220.57
41.10		272.68	123.55	211.34	-41.35	378.12	
51.62		340.85	154.56	264.17	-51.32	472.65	
53.58		340.85	155.54	264.17	-48.38	472.65	
43.06		272.68	124.53	211.34	-38.41	378.12	
25.52		159.06	72.85	123.28	-21.80	220.57	
0.00		0.98	0.00	0.49	0.00	1.47	
		-0.98	0.00	-0.49	0.00	-1.47	0.00
3.10		22.61	155.93	70.14	120.73	-24.92	216.25
	39.46	267.32	120.59	206.97	-41.67	370.72	

	49.57	334.15	150.86	258.71	-51.72	463.40
	51.53	334.15	151.84	258.71	-48.79	463.40
	41.42	267.32	121.57	206.97	-38.74	370.72
	24.57	155.93	71.12	120.73	-21.98	216.25
	0.00	0.98	0.00	0.49	0.00	1.47
3.15	-0.98	0.00	-0.49	0.00	-1.47	0.00
	22.35	153.57	69.13	118.92	-24.44	212.97
	39.01	263.26	118.85	203.87	-40.84	365.09
	49.00	329.08	148.69	254.83	-50.69	456.36
	50.96	329.08	149.67	254.83	-47.75	456.36
	40.96	263.26	119.83	203.87	-37.91	365.09
	24.30	153.57	70.11	118.92	-21.50	212.97
	0.00	0.98	0.00	0.49	0.00	1.47
3.20	-0.98	0.00	-0.49	0.00	-1.47	0.00
	22.09	151.28	68.15	117.17	-23.97	209.79
	38.57	259.33	117.18	200.87	-40.04	359.63
	48.45	324.17	146.59	251.08	-49.69	449.54
	50.41	324.17	147.57	251.08	-46.75	449.54
	40.52	259.33	118.15	200.87	-37.11	359.63
	24.05	151.28	69.13	117.17	-21.04	209.79
	0.00	0.98	0.00	0.49	0.00	1.47
3.25	-0.98	0.00	-0.49	0.00	-1.47	0.00
	21.84	149.06	67.20	115.48	-23.52	206.70
	38.14	255.53	115.55	197.96	-39.26	354.35
	47.92	319.41	144.56	247.45	-48.71	442.93
	49.88	319.41	145.54	247.45	-45.78	442.93
	40.10	255.53	116.53	197.96	-36.33	354.35
	23.80	149.06	68.18	115.48	-20.58	206.70
	0.00	0.98	0.00	0.49	0.00	1.47
3.30	-0.98	0.00	-0.49	0.00	-1.47	0.00
	21.60	146.90	66.28	113.83	-23.08	203.71
	37.73	251.84	113.97	195.14	-38.51	349.22
	47.41	314.80	142.59	243.93	-47.77	436.53
	49.36	314.80	143.56	243.93	-44.84	436.53
	39.69	251.84	114.95	195.14	-35.58	349.22
	23.56	146.90	67.26	113.83	-20.14	203.71
	0.00	0.98	0.00	0.49	0.00	1.47
3.35	-0.98	0.00	-0.49	0.00	-1.47	0.00
	20.59	144.04	64.61	111.46	-23.43	199.76
	36.00	246.92	111.11	191.07	-39.11	342.45
	45.24	308.65	139.01	238.84	-48.53	428.06
	47.20	308.65	139.98	238.84	-45.59	428.06
	37.95	246.92	112.08	191.07	-36.18	342.45
	22.55	144.04	65.59	111.46	-20.49	199.76
	0.00	0.98	0.00	0.49	0.00	1.47

3.40	-0.98	0.00	-0.49	0.00	-1.47	0.00
	20.38	142.02	63.76	109.92	-23.00	196.96
	35.63	243.47	109.64	188.44	-38.38	337.65
	44.78	304.33	137.18	235.55	-47.61	422.07
	46.74	304.33	138.15	235.55	-44.68	422.07
	37.59	243.47	110.62	188.44	-35.45	337.65
	22.33	142.02	64.73	109.92	-20.07	196.96
	0.00	0.98	0.00	0.49	0.00	1.47
3.45	-0.98	0.00	-0.49	0.00	-1.47	0.00
	20.17	140.07	62.93	108.43	-22.59	194.25
	35.28	240.11	108.22	185.89	-37.67	333.00
	44.34	300.14	135.40	232.36	-46.72	416.25
	46.29	300.14	136.38	232.36	-43.79	416.25
	37.23	240.11	109.20	185.89	-34.74	333.00
	22.13	140.07	63.90	108.43	-19.65	194.25
	0.00	0.98	0.00	0.49	0.00	1.47
3.50	-0.98	0.00	-0.49	0.00	-1.47	0.00
	19.97	138.17	62.12	106.99	-22.18	191.61
	34.93	236.86	106.84	183.40	-36.98	328.47
	43.91	296.07	133.68	229.26	-45.86	410.59
	45.86	296.07	134.65	229.26	-42.93	410.59
	36.89	236.86	107.82	183.40	-34.05	328.47
	21.92	138.17	63.10	106.99	-19.25	191.61
	0.00	0.98	0.00	0.49	0.00	1.47
3.55	-0.98	0.00	-0.49	0.00	-1.47	0.00
	19.22	135.76	60.78	105.02	-22.35	188.29
	33.64	232.74	104.55	180.04	-37.27	322.79
	42.30	290.92	130.81	225.05	-46.21	403.49
	44.25	290.92	131.78	225.05	-43.28	403.49
	35.60	232.74	105.53	180.04	-34.33	322.79
	21.17	135.76	61.76	105.02	-19.42	188.29
	0.00	0.98	0.00	0.49	0.00	1.47
3.60	-0.98	0.00	-0.49	0.00	-1.47	0.00
	19.03	133.97	60.03	103.66	-21.96	185.81
	33.32	229.67	103.25	177.70	-36.60	318.53
	41.90	287.09	129.19	222.13	-45.39	398.16
	43.85	287.09	130.17	222.13	-42.46	398.16
	35.28	229.67	104.23	177.70	-33.67	318.53
	20.99	133.97	61.00	103.66	-19.03	185.81
	0.00	0.98	0.00	0.49	0.00	1.47
3.65	-0.98	0.00	-0.49	0.00	-1.47	0.00
	18.85	132.23	59.29	102.33	-21.59	183.39
	33.02	226.69	101.99	175.43	-35.96	314.38
	41.51	283.36	127.61	219.28	-44.58	392.98
	43.47	283.36	128.59	219.28	-41.65	392.98

	34.97	226.69	102.97	175.43	-33.03	314.38
	20.81	132.23	60.27	102.33	-18.66	183.39
	0.00	0.98	0.00	0.49	0.00	1.47
3.70	-0.98	0.00	-0.49	0.00	-1.47	0.00
	18.68	130.54	58.58	101.04	-21.22	181.04
	32.72	223.78	100.77	173.22	-35.33	310.35
	41.14	279.73	126.08	216.52	-43.80	387.94
	43.10	279.73	127.06	216.52	-40.87	387.94
	34.67	223.78	101.75	173.22	-32.40	310.35
	20.63	130.54	59.56	101.04	-18.29	181.04
	0.00	0.98	0.00	0.49	0.00	1.47
		-0.98	0.00	-0.49	0.00	-1.47
3.75	18.51	128.89	57.88	99.79	-20.87	178.75
	32.43	220.96	99.58	171.07	-34.72	306.43
	40.78	276.20	124.59	213.83	-43.04	383.03
	42.73	276.20	125.57	213.83	-40.11	383.03
	34.38	220.96	100.55	171.07	-31.79	306.43
	20.46	128.89	58.86	99.79	-17.93	178.75
	0.00	0.98	0.00	0.49	0.00	1.47
		-0.98	0.00	-0.49	0.00	-1.47
3.80	18.34	127.29	57.21	98.57	-20.52	176.52
	32.14	218.21	98.42	168.97	-34.13	302.61
	40.42	272.76	123.14	211.22	-42.30	378.26
	42.38	272.76	124.12	211.22	-39.36	378.26
	34.10	218.21	99.40	168.97	-31.20	302.61
	20.30	127.29	58.18	98.57	-17.59	176.52
	0.00	0.98	0.00	0.49	0.00	1.47
		-0.98	0.00	-0.49	0.00	-1.47
3.85	18.18	125.72	56.55	97.38	-20.18	174.35
	31.87	215.53	97.29	166.93	-33.55	298.89
	40.08	269.41	121.73	208.67	-41.57	373.61
	42.04	269.41	122.71	208.67	-38.64	373.61
	33.82	215.53	98.27	166.93	-30.62	298.89
	20.14	125.72	57.53	97.38	-17.25	174.35
	0.00	0.98	0.00	0.49	0.00	1.47
		-0.98	0.00	-0.49	0.00	-1.47
3.90	18.03	124.20	55.91	96.22	-19.85	172.24
	31.60	212.92	96.19	164.95	-32.98	295.26
	39.75	266.15	120.36	206.18	-40.86	369.08
	41.70	266.15	121.34	206.18	-37.93	369.08
	33.56	212.92	97.17	164.95	-30.05	295.26
	19.98	124.20	56.88	96.22	-16.92	172.24
	0.00	0.98	0.00	0.49	0.00	1.47
		-0.98	0.00	-0.49	0.00	-1.47
3.95	17.88	122.72	55.28	95.09	-19.53	170.18

	31.34	210.38	95.12	163.01	-32.43	291.73
	39.42	262.97	119.02	203.77	-40.18	364.66
	41.38	262.97	120.00	203.77	-37.24	364.66
	33.30	210.38	96.10	163.01	-29.50	291.73
	19.83	122.72	56.26	95.09	-16.60	170.18
	0.00	0.98	0.00	0.49	0.00	1.47
4.00	-0.98	0.00	-0.49	0.00	-1.47	0.00
	17.61	121.16	54.55	93.87	-19.34	168.01
	30.89	207.69	93.87	160.92	-32.10	288.01
	38.85	259.62	117.46	201.15	-39.76	360.02
	40.81	259.62	118.44	201.15	-36.82	360.02
	32.84	207.69	94.85	160.92	-29.17	288.01
	19.56	121.16	55.53	93.87	-16.40	168.01
	0.00	0.98	0.00	0.49	0.00	1.47
4.05	-0.98	0.00	-0.49	0.00	-1.47	0.00
	17.47	119.75	53.96	92.80	-19.03	166.05
	30.64	205.28	92.85	159.08	-31.57	284.66
	38.55	256.60	116.19	198.86	-39.10	355.82
	40.50	256.60	117.17	198.86	-36.16	355.82
	32.60	205.28	93.83	159.08	-28.64	284.66
	19.42	119.75	54.94	92.80	-16.09	166.05
	0.00	0.98	0.00	0.49	0.00	1.47
4.10	-0.98	0.00	-0.49	0.00	-1.47	0.00
	17.33	118.37	53.38	91.75	-18.73	164.14
	30.40	202.92	91.86	157.29	-31.06	281.39
	38.25	253.66	114.95	196.62	-38.45	351.73
	40.21	253.66	115.93	196.62	-35.52	351.73
	32.36	202.92	92.84	157.29	-28.12	281.39
	19.28	118.37	54.36	91.75	-15.79	164.14
	0.00	0.98	0.00	0.49	0.00	1.47
4.15	-0.98	0.00	-0.49	0.00	-1.47	0.00
	17.19	117.03	52.82	90.73	-18.43	162.28
	30.17	200.63	90.90	155.54	-30.55	278.20
	37.96	250.78	113.75	194.43	-37.82	347.74
	39.92	250.78	114.72	194.43	-34.89	347.74
	32.13	200.63	91.88	155.54	-27.62	278.20
	19.15	117.03	53.80	90.73	-15.50	162.28
	0.00	0.98	0.00	0.49	0.00	1.47
4.20	-0.98	0.00	-0.49	0.00	-1.47	0.00
	17.06	115.72	52.27	89.74	-18.15	160.46
	29.95	198.38	89.96	153.84	-30.06	275.08
	37.68	247.98	112.57	192.30	-37.21	343.85
	39.63	247.98	113.54	192.30	-34.28	343.85
	31.90	198.38	90.93	153.84	-27.13	275.08
	19.02	115.72	53.25	89.74	-15.21	160.46

	0.00	0.98	0.00	0.49	0.00	1.47
4.25	-0.98	0.00	-0.49	0.00	-1.47	0.00
	16.93	114.45	51.73	88.77	-17.87	158.69
	29.73	196.19	89.04	152.17	-29.58	272.04
	37.40	245.24	111.42	190.22	-36.61	340.05
	39.36	245.24	112.39	190.22	-33.68	340.05
	31.68	196.19	90.01	152.17	-26.65	272.04
	18.89	114.45	52.71	88.77	-14.93	158.69
	0.00	0.98	0.00	0.49	0.00	1.47
4.30	-0.98	0.00	-0.49	0.00	-1.47	0.00
	16.81	113.20	51.21	87.82	-17.59	156.96
	29.51	194.05	88.14	150.55	-29.11	269.07
	37.14	242.57	110.29	188.18	-36.02	336.33
	39.09	242.57	111.27	188.18	-33.09	336.33
	31.47	194.05	89.12	150.55	-26.18	269.07
	18.76	113.20	52.19	87.82	-14.66	156.96
	0.00	0.98	0.00	0.49	0.00	1.47
4.35	-0.98	0.00	-0.49	0.00	-1.47	0.00
	16.14	111.43	50.15	86.35	-17.87	154.53
	28.37	191.03	86.33	148.02	-29.59	264.90
	35.71	238.79	108.03	185.03	-36.62	331.13
	37.66	238.79	109.01	185.03	-33.68	331.13
	30.32	191.03	87.30	148.02	-26.65	264.90
	18.10	111.43	51.13	86.35	-14.94	154.53
	0.00	0.98	0.00	0.49	0.00	1.47
4.40	-0.98	0.00	-0.49	0.00	-1.47	0.00
	16.03	110.25	49.66	85.45	-17.60	152.88
	28.18	189.00	85.48	146.48	-29.13	262.08
	35.46	236.25	106.97	183.10	-36.04	327.60
	37.42	236.25	107.95	183.10	-33.11	327.60
	30.13	189.00	86.46	146.48	-26.19	262.08
	17.98	110.25	50.64	85.45	-14.67	152.88
	0.00	0.98	0.00	0.49	0.00	1.47
4.45	-0.98	0.00	-0.49	0.00	-1.47	0.00
	15.92	109.09	49.18	84.57	-17.34	151.27
	27.99	187.01	84.65	144.97	-28.68	259.32
	35.23	233.77	105.94	181.22	-35.48	324.16
	37.18	233.77	106.91	181.22	-32.55	324.16
	29.94	187.01	85.63	144.97	-25.75	259.32
	17.87	109.09	50.15	84.57	-14.41	151.27
	0.00	0.98	0.00	0.49	0.00	1.47
4.50	-0.98	0.00	-0.49	0.00	-1.47	0.00
	15.81	107.96	48.70	83.71	-17.08	149.70
	27.80	185.07	83.84	143.50	-28.24	256.63
	35.00	231.34	104.93	179.37	-34.93	320.79

	36.95	231.34	105.90	179.37	-32.00	320.79
	29.76	185.07	84.82	143.50	-25.31	256.63
	17.77	107.96	49.68	83.71	-14.15	149.70
	0.00	0.98	0.00	0.49	0.00	1.47

En la Tabla 3 se muestran las combinaciones de esfuerzos para los montantes en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 3. Combinación de esfuerzos de los montantes - 8 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Mín (KN)	Máx(KN)	Mín (KN)	Máx(KN)	Mín (KN)	Máx(KN)
0.50	7.13	23.02	-0.49	18.79	1.49	31.77
	-115.10	-35.93	659.52	-64.03	-158.83	-7.82
	-69.06	-21.66	1130.96	-38.47	-95.30	-4.85
	-23.02	-7.40	1413.82	-12.91	-31.77	-1.88
	0.00	0.00	1414.80	0.00	0.00	0.00
	-23.02	-6.87	1131.93	-12.65	-31.77	-1.09
	-69.06	-21.13	660.50	-38.21	-95.30	-4.06
	-115.10	-35.40	0.00	-63.76	-158.83	-7.03
	7.13	23.02	-0.49	18.79	1.49	31.77
0.55	6.23	22.12	557.05	17.89	0.58	30.55
	-110.58	-31.43	955.30	-59.52	-152.73	-3.34
	-66.35	-18.98	1194.24	-35.77	-91.64	-2.18
	-22.12	-6.52	1195.22	-12.02	-30.55	-1.02
	0.00	0.00	956.27	0.00	0.00	0.00
	-22.12	-5.94	558.03	-11.73	-30.55	-0.14
	-66.35	-18.39	0.00	-35.48	-91.64	-1.31
	-110.58	-30.85	-0.49	-59.23	-152.73	-2.47
	6.23	22.12	495.54	17.89	0.58	30.55
0.60	5.88	21.77	849.84	17.54	0.23	30.07
	-108.83	-29.71	1062.43	-57.78	-150.36	-1.63
	-65.30	-17.95	1063.41	-34.73	-90.22	-1.17
	-21.77	-6.20	850.82	-11.68	-30.07	-0.71
	0.00	0.00	496.52	0.00	0.00	0.00
	-21.77	-5.56	0.00	-11.37	-30.07	0.25
	-65.30	-17.32	-0.49	-34.42	-90.22	-0.22
	-108.83	-29.07	435.31	-57.47	-150.36	-0.68
	5.88	21.77	746.60	17.54	0.23	30.07
0.65	5.32	21.21	933.37	16.98	-0.32	29.32
	-106.05	-26.96	934.35	-55.02	-146.61	1.11
	-63.63	-16.31	747.57	-33.08	-87.97	0.46
	-21.21	-5.67	436.29	-11.14	-29.32	-0.19
	0.00	0.00	0.00	0.00	0.00	0.00

	-21.21	-4.98	-0.49	-10.80	-29.32	0.84
	-63.63	-15.62	394.70	-32.74	-87.97	1.49
	-106.05	-26.27	676.98	-54.68	-146.61	2.14
	5.32	21.21	846.35	16.98	-0.32	29.32
0.70	5.07	20.95	847.32	16.73	-0.58	28.98
	-104.77	-25.70	677.96	-53.75	-144.88	2.35
	-62.86	-15.57	395.68	-32.32	-86.93	1.19
	-20.95	-5.44	0.00	-10.90	-28.98	0.02
	0.00	0.00	-0.49	0.00	0.00	0.00
	-20.95	-4.69	360.03	-10.53	-28.98	1.14
	-62.86	-14.83	617.54	-31.95	-86.93	2.30
	-104.77	-24.96	772.05	-53.38	-144.88	3.46
	5.07	20.95	773.03	16.73	-0.58	28.98
	0.75	4.82	20.71	618.52	16.49	-0.82
-103.56		-24.52	361.01	-52.55	-143.25	3.52
-62.13		-14.87	0.00	-31.61	-85.95	1.87
-20.71		-5.22	-0.49	-10.67	-28.65	0.23
0.00		0.00	335.28	0.00	0.00	0.00
-20.71		-4.43	575.11	-10.27	-28.65	1.42
-62.13		-14.07	719.01	-31.21	-85.95	3.07
-103.56		-23.72	719.99	-52.15	-143.25	4.71
4.82		20.71	576.09	16.49	-0.82	28.65
0.80	4.76	20.64	336.26	16.42	-0.89	28.56
	-103.21	-24.20	0.00	-52.22	-142.78	3.82
	-61.93	-14.69	-0.49	-31.42	-85.67	2.04
	-20.64	-5.18	305.90	-10.61	-28.56	0.26
	0.00	0.00	524.74	0.00	0.00	0.00
	-20.64	-4.33	656.05	-10.19	-28.56	1.53
	-61.93	-13.84	657.03	-30.99	-85.67	3.31
	-103.21	-23.35	525.72	-51.80	-142.78	5.10
	4.76	20.64	306.87	16.42	-0.89	28.56
0.85	4.44	20.33	0.00	16.10	-1.21	28.13
	-101.63	-22.64	-0.49	-50.65	-140.64	5.37
	-60.98	-13.76	284.32	-30.48	-84.39	2.95
	-20.33	-4.89	487.75	-10.31	-28.13	0.53
	0.00	0.00	609.81	0.00	0.00	0.00
	-20.33	-3.99	610.79	-9.86	-28.13	1.88
	-60.98	-12.86	488.73	-30.03	-84.39	4.30
	-101.63	-21.74	285.29	-50.20	-140.64	6.72
	4.44	20.33	0.00	16.10	-1.21	28.13
0.90	4.28	20.17	-0.49	15.94	-1.37	27.91
	-100.83	-21.87	267.57	-49.87	-139.57	6.12
	-60.50	-13.31	459.05	-30.02	-83.74	3.39
	-20.17	-4.76	573.93	-10.16	-27.91	0.65
	0.00	0.00	574.91	0.00	0.00	0.00

	-20.17	-3.80	460.02	-9.69	-27.91	2.08
	-60.50	-12.36	268.55	-29.54	-83.74	4.82
	-100.83	-20.92	0.00	-49.39	-139.57	7.55
	4.28	20.17	-0.49	15.94	-1.37	27.91
0.95	4.21	20.10	249.18	15.88	-1.43	27.83
	-100.51	-21.58	427.51	-49.56	-139.14	6.41
	-60.31	-13.15	534.51	-29.84	-83.48	3.54
	-20.10	-4.72	535.49	-10.11	-27.83	0.68
	0.00	0.00	428.49	0.00	0.00	0.00
	-20.10	-3.71	250.15	-9.61	-27.83	2.19
	-60.31	-12.14	0.00	-29.33	-83.48	5.05
	-100.51	-20.57	-0.49	-49.06	-139.14	7.92
	4.21	20.10	231.01	15.88	-1.43	27.83
	1.00	4.02	19.91	396.37	15.68	-1.63
-99.54		-20.64	495.59	-48.61	-137.83	7.33
-59.73		-12.59	496.56	-29.27	-82.70	4.08
-19.91		-4.55	397.35	-9.93	-27.57	0.83
0.00		0.00	231.99	0.00	0.00	0.00
-19.91		-3.49	0.00	-9.40	-27.57	2.42
-59.73		-11.53	-0.49	-28.74	-82.70	5.67
-99.54		-19.58	220.65	-48.08	-137.83	8.92
4.02		19.91	378.60	15.68	-1.63	27.57
1.05	3.77	19.65	473.38	15.43	-1.88	27.22
	-98.27	-19.39	474.35	-47.34	-136.11	8.57
	-58.96	-11.85	379.58	-28.52	-81.67	4.81
	-19.65	-4.32	221.63	-9.69	-27.22	1.05
	0.00	0.00	0.00	0.00	0.00	0.00
	-19.65	-3.21	-0.49	-9.13	-27.22	2.72
	-58.96	-10.74	211.30	-27.96	-81.67	6.48
	-98.27	-18.27	362.57	-46.79	-136.11	10.24
	3.77	19.65	453.34	15.43	-1.88	27.22
1.10	3.77	19.66	454.31	15.43	-1.87	27.23
	-98.30	-19.45	363.55	-47.39	-136.15	8.50
	-58.98	-11.90	212.27	-28.55	-81.69	4.75
	-19.66	-4.36	0.00	-9.71	-27.23	1.00
	0.00	0.00	-0.49	0.00	0.00	0.00
	-19.66	-3.19	200.97	-9.13	-27.23	2.75
	-58.98	-10.74	344.87	-27.97	-81.69	6.50
	-98.30	-18.28	431.21	-46.81	-136.15	10.25
	3.77	19.66	432.19	15.43	-1.87	27.23
1.15	3.78	19.67	345.85	15.45	-1.86	27.25
	-98.36	-19.53	201.95	-47.46	-136.23	8.40
	-59.02	-11.96	0.00	-28.60	-81.74	4.67
	-19.67	-4.39	-0.49	-9.74	-27.25	0.95
	0.00	0.00	189.18	0.00	0.00	0.00

	-19.67	-3.18	324.66	-9.13	-27.25	2.78
	-59.02	-10.74	405.95	-27.99	-81.74	6.50
	-98.36	-18.31	406.93	-46.85	-136.23	10.23
	3.78	19.67	325.64	15.45	-1.86	27.25
1.20	3.71	19.60	190.16	15.38	-1.93	27.15
	-98.01	-19.21	0.00	-47.13	-135.76	8.71
	-58.81	-11.78	-0.49	-28.40	-81.46	4.84
	-19.60	-4.35	177.19	-9.68	-27.15	0.98
	0.00	0.00	304.11	0.00	0.00	0.00
	-19.60	-3.08	380.26	-9.04	-27.15	2.89
	-58.81	-10.51	381.23	-27.77	-81.46	6.75
	-98.01	-17.94	305.09	-46.49	-135.76	10.62
	3.71	19.60	178.17	15.38	-1.93	27.15
	1.25	3.53	19.42	0.00	15.20	-2.11
-97.11		-18.33	-0.49	-46.24	-134.54	9.57
-58.27		-11.27	170.84	-27.88	-80.73	5.34
-19.42		-4.20	293.21	-9.51	-26.91	1.12
0.00		0.00	366.64	0.00	0.00	0.00
-19.42		-2.87	367.62	-8.85	-26.91	3.11
-58.27		-9.94	294.19	-27.21	-80.73	7.33
-97.11		-17.01	171.82	-45.58	-134.54	11.56
3.53		19.42	0.00	15.20	-2.11	26.91
1.30	3.30	19.19	-0.49	14.96	-2.35	26.59
	-95.93	-17.18	164.85	-45.07	-132.95	10.71
	-57.56	-10.58	282.95	-27.18	-79.77	6.01
	-19.19	-3.99	353.81	-9.29	-26.59	1.32
	0.00	0.00	354.78	0.00	0.00	0.00
	-19.19	-2.61	283.92	-8.60	-26.59	3.38
	-57.56	-9.20	165.83	-26.49	-79.77	8.08
	-95.93	-15.80	0.00	-44.38	-132.95	12.78
	3.30	19.19	-0.49	14.96	-2.35	26.59
1.35	3.31	19.20	159.36	14.97	-2.34	26.61
	-95.99	-17.26	273.54	-45.14	-133.03	10.61
	-57.59	-10.64	342.05	-27.23	-79.82	5.94
	-19.20	-4.03	343.03	-9.31	-26.61	1.26
	0.00	0.00	274.52	0.00	0.00	0.00
	-19.20	-2.59	160.34	-8.60	-26.61	3.41
	-57.59	-9.21	0.00	-26.51	-79.82	8.09
	-95.99	-15.83	-0.49	-44.43	-133.03	12.76
	3.31	19.20	152.73	14.97	-2.34	26.61
1.40	3.32	19.20	262.18	14.98	-2.33	26.62
	-96.02	-17.33	327.84	-45.19	-133.08	10.54
	-57.61	-10.69	328.82	-27.26	-79.85	5.88
	-19.20	-4.06	263.15	-9.33	-26.62	1.22
	0.00	0.00	153.71	0.00	0.00	0.00

	-19.20	-2.57	0.00	-8.59	-26.62	3.44
	-57.61	-9.21	-0.49	-26.52	-79.85	8.10
	-96.02	-15.84	146.15	-44.45	-133.08	12.76
	3.32	19.20	250.90	14.98	-2.33	26.62
1.45	3.33	19.22	313.75	14.99	-2.32	26.63
	-96.08	-17.41	314.72	-45.26	-133.16	10.44
	-57.65	-10.76	251.88	-27.31	-79.89	5.80
	-19.22	-4.10	147.13	-9.36	-26.63	1.17
	0.00	0.00	0.00	0.00	0.00	0.00
	-19.22	-2.56	-0.49	-8.59	-26.63	3.47
	-57.65	-9.22	140.64	-26.54	-79.89	8.11
	-96.08	-15.88	241.44	-44.49	-133.16	12.74
	3.33	19.22	301.92	14.99	-2.32	26.63
	1.50	3.25	19.14	302.90	14.91	-2.39
-95.70		-17.06	242.42	-44.90	-132.65	10.78
-57.42		-10.55	141.61	-27.10	-79.59	5.99
-19.14		-4.05	0.00	-9.30	-26.53	1.20
0.00		0.00	-0.49	0.00	0.00	0.00
-19.14		-2.46	135.11	-8.50	-26.53	3.59
-57.42		-8.96	231.97	-26.30	-79.59	8.37
-95.70		-15.47	290.08	-44.10	-132.65	13.16
3.25		19.14	291.06	14.91	-2.39	26.53
1.55	3.16	19.04	232.94	14.82	-2.49	26.40
	-95.21	-16.60	136.09	-44.42	-131.98	11.23
	-57.13	-10.29	0.00	-26.82	-79.19	6.24
	-19.04	-3.98	-0.49	-9.21	-26.40	1.26
	0.00	0.00	131.31	0.00	0.00	0.00
	-19.04	-2.33	225.44	-8.39	-26.40	3.72
	-57.13	-8.64	281.93	-26.00	-79.19	8.71
	-95.21	-14.95	282.91	-43.60	-131.98	13.69
	3.16	19.04	226.42	14.82	-2.49	26.40
1.60	3.10	18.98	132.28	14.76	-2.55	26.32
	-94.92	-16.33	0.00	-44.14	-131.59	11.48
	-56.95	-10.14	-0.49	-26.66	-78.96	6.38
	-18.98	-3.95	127.72	-9.17	-26.32	1.28
	0.00	0.00	219.30	0.00	0.00	0.00
	-18.98	-2.25	274.25	-8.32	-26.32	3.82
	-56.95	-8.44	275.22	-25.81	-78.96	8.92
	-94.92	-14.64	220.28	-43.30	-131.59	14.02
	3.10	18.98	128.70	14.76	-2.55	26.32
1.65	3.02	18.90	0.00	14.68	-2.63	26.21
	-94.52	-15.96	-0.49	-43.76	-131.05	11.84
	-56.71	-9.93	122.76	-26.43	-78.63	6.58
	-18.90	-3.89	210.79	-9.10	-26.21	1.32
	0.00	0.00	263.61	0.00	0.00	0.00

	-18.90	-2.14	264.58	-8.23	-26.21	3.94
	-56.71	-8.18	211.76	-25.56	-78.63	9.20
	-94.52	-14.21	123.73	-42.88	-131.05	14.46
	3.02	18.90	0.00	14.68	-2.63	26.21
1.70	3.03	18.92	-0.49	14.69	-2.62	26.23
	-94.59	-16.05	119.53	-43.83	-131.14	11.74
	-56.75	-9.99	205.25	-26.48	-78.68	6.50
	-18.92	-3.93	256.69	-9.13	-26.23	1.27
	0.00	0.00	257.66	0.00	0.00	0.00
	-18.92	-2.13	206.23	-8.23	-26.23	3.97
	-56.75	-8.19	120.50	-25.58	-78.68	9.20
	-94.59	-14.25	0.00	-42.93	-131.14	14.44
	3.03	18.92	-0.49	14.69	-2.62	26.23
	1.75	3.04	18.93	116.54	14.70	-2.61
-94.65		-16.14	200.13	-43.91	-131.22	11.64
-56.79		-10.05	250.29	-26.53	-78.73	6.42
-18.93		-3.97	251.26	-9.15	-26.24	1.21
0.00		0.00	201.11	0.00	0.00	0.00
-18.93		-2.11	117.52	-8.22	-26.24	4.00
-56.79		-8.20	0.00	-25.60	-78.73	9.21
-94.65		-14.28	-0.49	-42.98	-131.22	14.42
1.80	3.04	18.93	113.71	14.70	-2.61	26.24
	2.94	18.83	195.27	14.61	-2.70	26.11
	-94.16	-15.67	244.22	-43.43	-130.56	12.09
	-56.49	-9.79	245.19	-26.25	-78.33	6.68
	-18.83	-3.90	196.25	-9.07	-26.11	1.27
	0.00	0.00	114.68	0.00	0.00	0.00
	-18.83	-1.99	0.00	-8.11	-26.11	4.13
	-56.49	-7.88	-0.49	-25.29	-78.33	9.54
	-94.16	-13.76	111.02	-42.48	-130.56	14.95
1.85	2.94	18.83	190.66	14.61	-2.70	26.11
	2.95	18.84	238.45	14.61	-2.70	26.12
	-94.19	-15.74	239.43	-43.48	-130.61	12.01
	-56.52	-9.83	191.64	-26.28	-78.36	6.62
	-18.84	-3.93	111.99	-9.09	-26.12	1.23
	0.00	0.00	0.00	0.00	0.00	0.00
	-18.84	-1.97	-0.49	-8.11	-26.12	4.17
	-56.52	-7.87	107.60	-25.30	-78.36	9.56
	-94.19	-13.77	184.80	-42.50	-130.61	14.95
1.90	2.95	18.84	231.13	14.61	-2.70	26.12
	2.96	18.85	232.10	14.63	-2.68	26.14
	-94.26	-15.82	185.78	-43.56	-130.69	11.91
	-56.55	-9.90	108.58	-26.34	-78.41	6.54
	-18.85	-3.97	0.00	-9.11	-26.14	1.17
	0.00	0.00	-0.49	0.00	0.00	0.00

	-18.85	-1.96	105.18	-8.11	-26.14	4.19
	-56.55	-7.88	180.66	-25.33	-78.41	9.56
	-94.26	-13.81	225.94	-42.55	-130.69	14.93
	2.96	18.85	226.92	14.63	-2.68	26.14
1.95	2.98	18.86	181.64	14.64	-2.67	26.16
	-94.32	-15.91	106.16	-43.63	-130.78	11.80
	-56.59	-9.96	0.00	-26.39	-78.47	6.46
	-18.86	-4.01	-0.49	-9.14	-26.16	1.12
	0.00	0.00	101.55	0.00	0.00	0.00
	-18.86	-1.94	174.44	-8.11	-26.16	4.22
	-56.59	-7.90	218.17	-25.35	-78.47	9.56
	-94.32	-13.85	219.15	-42.60	-130.78	14.90
	2.98	18.86	175.41	14.64	-2.67	26.16
	2.00	2.99	18.88	102.53	14.65	-2.66
-94.38		-16.01	0.00	-43.71	-130.86	11.70
-56.63		-10.03	-0.49	-26.44	-78.52	6.38
-18.88		-4.05	99.38	-9.17	-26.17	1.07
0.00		0.00	170.72	0.00	0.00	0.00
-18.88		-1.93	213.52	-8.11	-26.17	4.25
-56.63		-7.91	214.50	-25.38	-78.52	9.56
-94.38		-13.89	171.70	-42.65	-130.86	14.88
2.99		18.88	100.36	14.65	-2.66	26.17
2.05	2.93	18.82	0.00	14.60	-2.71	26.10
	-94.11	-15.75	-0.49	-43.45	-130.49	11.94
	-56.46	-9.89	96.51	-26.29	-78.29	6.51
	-18.82	-4.02	165.79	-9.12	-26.10	1.08
	0.00	0.00	207.36	0.00	0.00	0.00
	-18.82	-1.85	208.34	-8.04	-26.10	4.34
	-56.46	-7.71	166.77	-25.20	-78.29	9.77
	-94.11	-13.58	97.49	-42.36	-130.49	15.20
	2.93	18.82	0.00	14.60	-2.71	26.10
2.10	2.95	18.83	-0.49	14.61	-2.70	26.11
	-94.17	-15.84	94.54	-43.52	-130.57	11.83
	-56.50	-9.95	162.42	-26.34	-78.34	6.43
	-18.83	-4.06	203.15	-9.15	-26.11	1.03
	0.00	0.00	204.12	0.00	0.00	0.00
	-18.83	-1.83	163.40	-8.04	-26.11	4.37
	-56.50	-7.73	95.52	-25.22	-78.34	9.77
	-94.17	-13.62	0.00	-42.41	-130.57	15.17
	2.95	18.83	-0.49	14.61	-2.70	26.11
2.15	2.85	18.74	92.66	14.51	-2.80	25.98
	-93.68	-15.38	159.19	-43.05	-129.92	12.28
	-56.21	-9.69	199.11	-26.06	-77.95	6.69
	-18.74	-3.99	200.09	-9.07	-25.98	1.09
	0.00	0.00	160.17	0.00	0.00	0.00

	-18.74	-1.71	93.64	-7.93	-25.98	4.51
	-56.21	-7.41	0.00	-24.92	-77.95	10.10
	-93.68	-13.10	-0.49	-41.91	-129.92	15.70
	2.85	18.74	90.86	14.51	-2.80	25.98
2.20	2.86	18.75	156.10	14.52	-2.79	26.00
	-93.75	-15.47	195.25	-43.13	-130.00	12.18
	-56.25	-9.75	196.23	-26.11	-78.00	6.61
	-18.75	-4.03	157.08	-9.09	-26.00	1.04
	0.00	0.00	91.83	0.00	0.00	0.00
	-18.75	-1.70	0.00	-7.93	-26.00	4.53
	-56.25	-7.42	-0.49	-24.94	-78.00	10.11
	-93.75	-13.14	89.13	-41.96	-130.00	15.68
	2.86	18.75	153.14	14.52	-2.79	26.00
	2.25	2.80	18.69	191.54	14.47	-2.84
-93.46		-15.21	192.52	-42.85	-129.62	12.42
-56.08		-9.61	154.11	-25.95	-77.77	6.74
-18.69		-4.00	90.10	-9.05	-25.92	1.05
0.00		0.00	0.00	0.00	0.00	0.00
-18.69		-1.61	-0.49	-7.86	-25.92	4.63
-56.08		-7.22	87.47	-24.76	-77.77	10.32
-93.46		-12.83	150.29	-41.66	-129.62	16.00
2.30	2.80	18.69	187.99	14.47	-2.84	25.92
	2.82	18.70	188.97	14.48	-2.83	25.94
	-93.52	-15.30	151.27	-42.93	-129.70	12.32
	-56.11	-9.67	88.45	-26.00	-77.82	6.66
	-18.70	-4.04	0.00	-9.07	-25.94	1.00
	0.00	0.00	-0.49	0.00	0.00	0.00
	-18.70	-1.60	85.87	-7.85	-25.94	4.66
	-56.11	-7.23	147.56	-24.78	-77.82	10.32
2.35	-93.52	-12.87	184.58	-41.71	-129.70	15.98
	2.82	18.70	185.55	14.48	-2.83	25.94
	2.83	18.72	148.54	14.49	-2.82	25.96
	-93.59	-15.39	86.85	-43.01	-129.79	12.22
	-56.15	-9.73	0.00	-26.05	-77.87	6.58
	-18.72	-4.08	-0.49	-9.10	-25.96	0.95
	0.00	0.00	84.34	0.00	0.00	0.00
	-18.72	-1.58	144.94	-7.85	-25.96	4.69
2.40	-56.15	-7.24	181.30	-24.81	-77.87	10.32
	-93.59	-12.90	182.27	-41.76	-129.79	15.95
	2.83	18.72	145.92	14.49	-2.82	25.96
	2.84	18.73	85.32	14.50	-2.80	25.97
	-93.65	-15.48	0.00	-43.08	-129.87	12.11
2.40	-56.19	-9.80	-0.49	-26.10	-77.92	6.51
	-18.73	-4.11	81.80	-9.13	-25.97	0.90
	0.00	0.00	140.57	0.00	0.00	0.00

	-18.73	-1.57	175.84	-7.85	-25.97	4.71
	-56.19	-7.26	176.82	-24.83	-77.92	10.32
	-93.65	-12.94	141.55	-41.81	-129.87	15.93
	2.84	18.73	82.77	14.50	-2.80	25.97
2.45	2.86	18.74	0.00	14.52	-2.79	25.99
	-93.72	-15.58	-0.49	-43.16	-129.96	12.01
	-56.23	-9.86	80.40	-26.16	-77.98	6.43
	-18.74	-4.15	138.18	-9.15	-25.99	0.84
	0.00	0.00	172.84	0.00	0.00	0.00
	-18.74	-1.56	173.82	-7.85	-25.99	4.74
	-56.23	-7.27	139.16	-24.86	-77.98	10.32
	-93.72	-12.98	81.38	-41.86	-129.96	15.91
	2.86	18.74	0.00	14.52	-2.79	25.99
2.50	2.87	18.76	-0.49	14.53	-2.78	26.01
	-93.78	-15.67	79.00	-43.24	-130.05	11.91
	-56.27	-9.93	135.78	-26.21	-78.03	6.35
	-18.76	-4.19	169.85	-9.18	-26.01	0.79
	0.00	0.00	170.82	0.00	0.00	0.00
	-18.76	-1.54	136.76	-7.85	-26.01	4.77
	-56.27	-7.28	79.98	-24.88	-78.03	10.32
	-93.78	-13.02	0.00	-41.91	-130.05	15.88
2.87	18.76	-0.49	14.53	-2.78	26.01	
2.55	2.88	18.77	77.70	14.54	-2.77	26.03
	-93.84	-15.76	133.56	-43.32	-130.14	11.80
	-56.31	-10.00	167.07	-26.26	-78.08	6.27
	-18.77	-4.23	168.05	-9.20	-26.03	0.74
	0.00	0.00	134.53	0.00	0.00	0.00
	-18.77	-1.53	78.68	-7.85	-26.03	4.79
	-56.31	-7.29	0.00	-24.91	-78.08	10.32
	-93.84	-13.05	-0.49	-41.97	-130.14	15.86
2.88	18.77	76.45	14.54	-2.77	26.03	
2.60	2.89	18.78	131.41	14.56	-2.75	26.04
	-93.91	-15.85	164.39	-43.40	-130.22	11.70
	-56.35	-10.06	165.37	-26.31	-78.13	6.19
	-18.78	-4.27	132.39	-9.23	-26.04	0.69
	0.00	0.00	77.43	0.00	0.00	0.00
	-18.78	-1.52	0.00	-7.85	-26.04	4.82
	-56.35	-7.31	-0.49	-24.93	-78.13	10.32
	-93.91	-13.09	75.25	-42.02	-130.22	15.83
2.89	18.78	129.35	14.56	-2.75	26.04	
2.65	2.80	18.68	161.80	14.46	-2.85	25.91
	-93.42	-15.39	162.78	-42.92	-129.57	12.14
	-56.05	-9.80	130.32	-26.03	-77.74	6.44
	-18.68	-4.20	76.23	-9.15	-25.91	0.74
	0.00	0.00	0.00	0.00	0.00	0.00

	-18.68	-1.39	-0.49	-7.74	-25.91	4.96
	-56.05	-6.99	74.08	-24.63	-77.74	10.66
	-93.42	-12.58	127.35	-41.52	-129.57	16.36
	2.80	18.68	159.31	14.46	-2.85	25.91
2.70	2.81	18.70	160.29	14.47	-2.84	25.93
	-93.49	-15.48	128.33	-43.00	-129.66	12.04
	-56.09	-9.86	75.06	-26.09	-77.79	6.36
	-18.70	-4.24	0.00	-9.17	-25.93	0.69
	0.00	0.00	-0.49	0.00	0.00	0.00
	-18.70	-1.38	72.96	-7.74	-25.93	4.98
	-56.09	-7.00	125.42	-24.66	-77.79	10.66
	-93.49	-12.62	156.90	-41.57	-129.66	16.33
	2.81	18.70	157.87	14.47	-2.84	25.93
	2.75	2.82	18.71	126.40	14.48	-2.83
-93.53		-15.55	73.94	-43.05	-129.71	11.96
-56.12		-9.91	0.00	-26.12	-77.83	6.30
-18.71		-4.28	-0.49	-9.19	-25.94	0.64
0.00		0.00	71.87	0.00	0.00	0.00
-18.71		-1.36	123.55	-7.74	-25.94	5.02
-56.12		-7.00	154.56	-24.67	-77.83	10.67
-93.53		-12.63	155.54	-41.60	-129.71	16.33
2.82		18.71	124.53	14.48	-2.83	25.94
2.80	2.83	18.72	72.85	14.49	-2.82	25.96
	-93.60	-15.64	0.00	-43.13	-129.80	11.85
	-56.16	-9.98	-0.49	-26.18	-77.88	6.22
	-18.72	-4.32	70.14	-9.22	-25.96	0.59
	0.00	0.00	120.59	0.00	0.00	0.00
	-18.72	-1.35	150.86	-7.74	-25.96	5.04
	-56.16	-7.01	151.84	-24.69	-77.88	10.67
	-93.60	-12.67	121.57	-41.65	-129.80	16.30
	2.83	18.72	71.12	14.49	-2.82	25.96
2.85	2.84	18.73	0.00	14.51	-2.80	25.98
	-93.66	-15.73	-0.49	-43.21	-129.89	11.74
	-56.20	-10.05	69.13	-26.23	-77.93	6.14
	-18.73	-4.36	118.85	-9.25	-25.98	0.54
	0.00	0.00	148.69	0.00	0.00	0.00
	-18.73	-1.33	149.67	-7.74	-25.98	5.07
	-56.20	-7.02	119.83	-24.72	-77.93	10.67
	-93.66	-12.71	70.11	-41.70	-129.89	16.28
	2.84	18.73	0.00	14.51	-2.80	25.98
2.90	2.86	18.75	-0.49	14.52	-2.79	26.00
	-93.73	-15.83	68.15	-43.30	-129.98	11.64
	-56.24	-10.11	117.18	-26.28	-77.99	6.06
	-18.75	-4.40	146.59	-9.27	-26.00	0.48
	0.00	0.00	147.57	0.00	0.00	0.00

	-18.75	-1.32	118.15	-7.74	-26.00	5.09
	-56.24	-7.04	69.13	-24.75	-77.99	10.67
	-93.73	-12.75	0.00	-41.76	-129.98	16.25
	2.86	18.75	-0.49	14.52	-2.79	26.00
2.95	2.87	18.76	67.20	14.53	-2.78	26.01
	-93.80	-15.92	115.55	-43.38	-130.07	11.53
	-56.28	-10.18	144.56	-26.34	-78.04	5.98
	-18.76	-4.44	145.54	-9.30	-26.01	0.43
	0.00	0.00	116.53	0.00	0.00	0.00
	-18.76	-1.31	68.18	-7.74	-26.01	5.12
	-56.28	-7.05	0.00	-24.78	-78.04	10.67
	-93.80	-12.80	-0.49	-41.81	-130.07	16.22
	2.87	18.76	66.28	14.53	-2.78	26.01
3.00	2.89	18.77	113.97	14.55	-2.76	26.03
	-93.87	-16.02	142.59	-43.46	-130.17	11.42
	-56.32	-10.25	143.56	-26.39	-78.10	5.90
	-18.77	-4.48	114.95	-9.33	-26.03	0.38
	0.00	0.00	67.26	0.00	0.00	0.00
	-18.77	-1.30	0.00	-7.74	-26.03	5.15
	-56.32	-7.07	-0.49	-24.80	-78.10	10.67
	-93.87	-12.84	64.61	-41.87	-130.17	16.19
	2.89	18.77	111.11	14.55	-2.76	26.03
3.05	2.90	18.79	139.01	14.56	-2.75	26.05
	-93.94	-16.11	139.98	-43.54	-130.26	11.31
	-56.36	-10.31	112.08	-26.45	-78.15	5.82
	-18.79	-4.52	65.59	-9.35	-26.05	0.32
	0.00	0.00	0.00	0.00	0.00	0.00
	-18.79	-1.28	-0.49	-7.74	-26.05	5.17
	-56.36	-7.08	63.76	-24.83	-78.15	10.67
	-93.94	-12.88	109.64	-41.92	-130.26	16.16
	2.90	18.79	137.18	14.56	-2.75	26.05
3.10	2.83	18.72	138.15	14.49	-2.82	25.96
	-93.60	-15.80	110.62	-43.22	-129.80	11.61
	-56.16	-10.14	64.73	-26.26	-77.88	5.98
	-18.72	-4.47	0.00	-9.30	-25.96	0.35
	0.00	0.00	-0.49	0.00	0.00	0.00
	-18.72	-1.19	62.93	-7.66	-25.96	5.28
	-56.16	-6.85	108.22	-24.61	-77.88	10.91
	-93.60	-12.52	135.40	-41.57	-129.80	16.54
	2.83	18.72	136.38	14.49	-2.82	25.96
3.15	2.85	18.73	109.20	14.51	-2.80	25.98
	-93.66	-15.90	63.90	-43.30	-129.89	11.51
	-56.20	-10.20	0.00	-26.31	-77.94	5.90
	-18.73	-4.51	-0.49	-9.33	-25.98	0.30
	0.00	0.00	62.12	0.00	0.00	0.00

	-18.73	-1.18	106.84	-7.66	-25.98	5.31
	-56.20	-6.87	133.68	-24.64	-77.94	10.91
	-93.66	-12.56	134.65	-41.63	-129.89	16.51
	2.85	18.73	107.82	14.51	-2.80	25.98
3.20	2.86	18.75	63.10	14.52	-2.79	26.00
	-93.73	-15.99	0.00	-43.38	-129.98	11.40
	-56.24	-10.27	-0.49	-26.36	-77.99	5.82
	-18.75	-4.55	60.78	-9.35	-26.00	0.24
	0.00	0.00	104.55	0.00	0.00	0.00
	-18.75	-1.16	130.81	-7.66	-26.00	5.33
	-56.24	-6.88	131.78	-24.67	-77.99	10.91
	-93.73	-12.60	105.53	-41.68	-129.98	16.49
	2.86	18.75	61.76	14.52	-2.79	26.00
3.25	2.87	18.76	0.00	14.53	-2.77	26.01
	-93.80	-16.08	-0.49	-43.46	-130.07	11.29
	-56.28	-10.34	60.03	-26.42	-78.04	5.74
	-18.76	-4.59	103.25	-9.38	-26.01	0.19
	0.00	0.00	129.19	0.00	0.00	0.00
	-18.76	-1.15	130.17	-7.66	-26.01	5.36
	-56.28	-6.89	104.23	-24.70	-78.04	10.91
	-93.80	-12.64	61.00	-41.73	-130.07	16.46
2.87	18.76	0.00	14.53	-2.77	26.01	
3.30	2.89	18.77	-0.49	14.55	-2.76	26.03
	-93.87	-16.18	59.29	-43.54	-130.16	11.18
	-56.32	-10.41	101.99	-26.47	-78.10	5.66
	-18.77	-4.63	127.61	-9.41	-26.03	0.14
	0.00	0.00	128.59	0.00	0.00	0.00
	-18.77	-1.14	102.97	-7.66	-26.03	5.38
	-56.32	-6.91	60.27	-24.72	-78.10	10.91
	-93.87	-12.68	0.00	-41.79	-130.16	16.43
2.89	18.77	-0.49	14.55	-2.76	26.03	
3.35	2.80	18.69	58.58	14.46	-2.85	25.91
	-93.43	-15.77	100.77	-43.11	-129.57	11.58
	-56.06	-10.17	126.08	-26.22	-77.74	5.88
	-18.69	-4.57	127.06	-9.33	-25.91	0.19
	0.00	0.00	101.75	0.00	0.00	0.00
	-18.69	-1.02	59.56	-7.56	-25.91	5.51
	-56.06	-6.62	0.00	-24.45	-77.74	11.21
	-93.43	-12.21	-0.49	-41.34	-129.57	16.91
	2.80	18.69	57.88	14.46	-2.85	25.91
3.40	2.81	18.70	99.58	14.47	-2.84	25.93
	-93.50	-15.86	124.59	-43.19	-129.67	11.47
	-56.10	-10.24	125.57	-26.28	-77.80	5.80
	-18.70	-4.61	100.55	-9.36	-25.93	0.13
	0.00	0.00	58.86	0.00	0.00	0.00

	-18.70	-1.01	0.00	-7.56	-25.93	5.54
	-56.10	-6.63	-0.49	-24.47	-77.80	11.21
	-93.50	-12.26	57.21	-41.39	-129.67	16.88
	2.81	18.70	98.42	14.47	-2.84	25.93
3.45	2.83	18.71	123.14	14.49	-2.82	25.95
	-93.57	-15.96	124.12	-43.28	-129.76	11.37
	-56.14	-10.30	99.40	-26.33	-77.85	5.72
	-18.71	-4.65	58.18	-9.39	-25.95	0.08
	0.00	0.00	0.00	0.00	0.00	0.00
	-18.71	-1.00	-0.49	-7.56	-25.95	5.56
	-56.14	-6.65	56.55	-24.50	-77.85	11.21
	-93.57	-12.30	97.29	-41.45	-129.76	16.85
	2.83	18.71	121.73	14.49	-2.82	25.95
	3.50	2.84	18.73	122.71	14.50	-2.81
-93.63		-16.05	98.27	-43.36	-129.85	11.26
-56.18		-10.37	57.53	-26.39	-77.91	5.64
-18.73		-4.69	0.00	-9.41	-25.97	0.03
0.00		0.00	-0.49	0.00	0.00	0.00
-18.73		-0.98	55.91	-7.56	-25.97	5.59
-56.18		-6.66	96.19	-24.53	-77.91	11.21
-93.63		-12.34	120.36	-41.50	-129.85	16.82
2.84		18.73	121.34	14.50	-2.81	25.97
3.55	2.78	18.66	97.17	14.44	-2.87	25.89
	-93.32	-15.76	56.88	-43.06	-129.43	11.53
	-55.99	-10.21	0.00	-26.21	-77.66	5.79
	-18.66	-4.66	-0.49	-9.36	-25.89	0.05
	0.00	0.00	55.28	0.00	0.00	0.00
	-18.66	-0.89	95.12	-7.48	-25.89	5.69
	-55.99	-6.45	119.02	-24.33	-77.66	11.43
	-93.32	-12.00	120.00	-41.18	-129.43	17.18
	2.78	18.66	96.10	14.44	-2.87	25.89
3.60	2.79	18.68	56.26	14.45	-2.86	25.90
	-93.39	-15.86	0.00	-43.14	-129.52	11.43
	-56.03	-10.28	-0.49	-26.26	-77.71	5.71
	-18.68	-4.70	54.55	-9.39	-25.90	0.00
	0.00	0.00	93.87	0.00	0.00	0.00
	-18.68	-0.88	117.46	-7.48	-25.90	5.72
	-56.03	-6.46	118.44	-24.36	-77.71	11.43
	-93.39	-12.04	94.85	-41.23	-129.52	17.15
	2.79	18.68	55.53	14.45	-2.86	25.90
3.65	2.80	18.69	0.00	14.46	-2.84	25.92
	-93.45	-15.95	-0.49	-43.22	-129.61	11.32
	-56.07	-10.34	53.96	-26.32	-77.76	5.63
	-18.69	-4.74	92.85	-9.42	-25.92	-0.06
	0.00	0.00	116.19	0.00	0.00	0.00

	-18.69	-0.87	117.17	-7.48	-25.92	5.75
	-56.07	-6.47	93.83	-24.38	-77.76	11.43
	-93.45	-12.08	54.94	-41.28	-129.61	17.12
	2.80	18.69	0.00	14.46	-2.84	25.92
3.70	2.82	18.70	-0.49	14.48	-2.83	25.94
	-93.52	-16.04	53.38	-43.30	-129.70	11.21
	-56.11	-10.41	91.86	-26.37	-77.82	5.55
	-18.70	-4.78	114.95	-9.44	-25.94	-0.11
	0.00	0.00	115.93	0.00	0.00	0.00
	-18.70	-0.86	92.84	-7.48	-25.94	5.77
	-56.11	-6.49	54.36	-24.41	-77.82	11.43
	-93.52	-12.12	0.00	-41.34	-129.70	17.10
	2.82	18.70	-0.49	14.48	-2.83	25.94
	3.75	2.83	18.72	52.82	14.49	-2.82
-93.59		-16.14	90.90	-43.38	-129.79	11.11
-56.15		-10.48	113.75	-26.42	-77.87	5.47
-18.72		-4.82	114.72	-9.47	-25.96	-0.16
0.00		0.00	91.88	0.00	0.00	0.00
-18.72		-0.84	53.80	-7.48	-25.96	5.80
-56.15		-6.50	0.00	-24.44	-77.87	11.43
-93.59		-12.16	-0.49	-41.39	-129.79	17.07
2.83		18.72	52.27	14.49	-2.82	25.96
3.80	2.84	18.73	89.96	14.50	-2.80	25.98
	-93.65	-16.23	112.57	-43.46	-129.88	11.00
	-56.19	-10.54	113.54	-26.48	-77.93	5.39
	-18.73	-4.86	90.93	-9.50	-25.98	-0.22
	0.00	0.00	53.25	0.00	0.00	0.00
	-18.73	-0.83	0.00	-7.48	-25.98	5.82
	-56.19	-6.52	-0.49	-24.46	-77.93	11.43
	-93.65	-12.20	51.73	-41.44	-129.88	17.04
	2.84	18.73	89.04	14.50	-2.80	25.98
3.85	2.86	18.74	111.42	14.52	-2.79	25.99
	-93.72	-16.32	112.39	-43.54	-129.97	10.89
	-56.23	-10.61	90.01	-26.53	-77.98	5.31
	-18.74	-4.90	52.71	-9.52	-25.99	-0.27
	0.00	0.00	0.00	0.00	0.00	0.00
	-18.74	-0.82	-0.49	-7.48	-25.99	5.85
	-56.23	-6.53	51.21	-24.49	-77.98	11.43
	-93.72	-12.24	88.14	-41.50	-129.97	17.01
	2.86	18.74	110.29	14.52	-2.79	25.99
3.90	2.87	18.76	111.27	14.53	-2.78	26.01
	-93.79	-16.42	89.12	-43.62	-130.06	10.78
	-56.27	-10.68	52.19	-26.59	-78.04	5.23
	-18.76	-4.94	0.00	-9.55	-26.01	-0.32
	0.00	0.00	-0.49	0.00	0.00	0.00

	-18.76	-0.80	50.15	-7.48	-26.01	5.88
	-56.27	-6.54	86.33	-24.52	-78.04	11.43
	-93.79	-12.28	108.03	-41.55	-130.06	16.98
	2.87	18.76	109.01	14.53	-2.78	26.01
3.95	2.88	18.77	87.30	14.55	-2.76	26.03
	-93.86	-16.51	51.13	-43.70	-130.15	10.68
	-56.31	-10.75	0.00	-26.64	-78.09	5.15
	-18.77	-4.98	-0.49	-9.58	-26.03	-0.38
	0.00	0.00	49.66	0.00	0.00	0.00
	-18.77	-0.79	85.48	-7.48	-26.03	5.90
	-56.31	-6.56	106.97	-24.55	-78.09	11.43
	-93.86	-12.33	107.95	-41.61	-130.15	16.96
	2.88	18.77	86.46	14.55	-2.76	26.03
4.00	2.88	18.77	50.64	14.54	-2.77	26.02
	-93.83	-16.52	0.00	-43.69	-130.12	10.66
	-56.30	-10.76	-0.49	-26.64	-78.07	5.12
	-18.77	-5.00	49.18	-9.59	-26.02	-0.41
	0.00	0.00	84.65	0.00	0.00	0.00
	-18.77	-0.76	105.94	-7.47	-26.02	5.95
	-56.30	-6.52	106.91	-24.52	-78.07	11.48
	-93.83	-12.28	85.63	-41.57	-130.12	17.02
	2.88	18.77	50.15	14.54	-2.77	26.02
4.05	2.89	18.78	0.00	14.55	-2.75	26.04
	-93.90	-16.61	-0.49	-43.77	-130.21	10.55
	-56.34	-10.82	48.70	-26.69	-78.13	5.04
	-18.78	-5.04	83.84	-9.61	-26.04	-0.47
	0.00	0.00	104.93	0.00	0.00	0.00
	-18.78	-0.75	105.90	-7.47	-26.04	5.97
	-56.34	-6.53	84.82	-24.55	-78.13	11.48
	-93.90	-12.32	49.68	-41.63	-130.21	16.99
	2.89	18.78	0.00	14.55	-2.75	26.04
4.10	2.91	18.79		14.57	-2.74	26.06
	-93.97	-16.71		-43.85	-130.31	10.44
	-56.38	-10.89		-26.75	-78.18	4.96
	-18.79	-5.08		-9.64	-26.06	-0.52
	0.00	0.00		0.00	0.00	0.00
	-18.79	-0.73		-7.47	-26.06	6.00
	-56.38	-6.55		-24.57	-78.18	11.48
	-93.97	-12.36		-41.68	-130.31	16.96
	2.91	18.79		14.57	-2.74	26.06
4.15	2.92	18.81		14.58	-2.73	26.08
	-94.04	-16.80		-43.94	-130.40	10.33
	-56.42	-10.96		-26.80	-78.24	4.88
	-18.81	-5.12		-9.67	-26.08	-0.57
	0.00	0.00		0.00	0.00	0.00

	-18.81	-0.72		-7.47	-26.08	6.03
	-56.42	-6.56		-24.60	-78.24	11.48
	-94.04	-12.40		-41.74	-130.40	16.93
	2.92	18.81		14.58	-2.73	26.08
4.20	2.93	18.82		14.60	-2.71	26.10
	-94.11	-16.90		-44.02	-130.49	10.23
	-56.47	-11.03		-26.86	-78.30	4.80
	-18.82	-5.16		-9.69	-26.10	-0.63
	0.00	0.00		0.00	0.00	0.00
	-18.82	-0.71		-7.47	-26.10	6.05
	-56.47	-6.58		-24.63	-78.30	11.48
	-94.11	-12.44		-41.79	-130.49	16.90
	2.93	18.82		14.60	-2.71	26.10
	4.25	2.95	18.84		14.61	-2.70
-94.18		-16.99		-44.10	-130.59	10.12
-56.51		-11.10		-26.91	-78.35	4.72
-18.84		-5.20		-9.72	-26.12	-0.68
0.00		0.00		0.00	0.00	0.00
-18.84		-0.70		-7.47	-26.12	6.08
-56.51		-6.59		-24.66	-78.35	11.48
-94.18		-12.49		-41.85	-130.59	16.87
2.95		18.84		14.61	-2.70	26.12
4.30	2.96	18.85		14.62	-2.69	26.14
	-94.25	-17.09		-44.18	-130.68	10.01
	-56.55	-11.16		-26.97	-78.41	4.64
	-18.85	-5.24		-9.75	-26.14	-0.73
	0.00	0.00		0.00	0.00	0.00
	-18.85	-0.68		-7.47	-26.14	6.10
	-56.55	-6.61		-24.69	-78.41	11.47
	-94.25	-12.53		-41.90	-130.68	16.84
	2.96	18.85		14.62	-2.69	26.14
4.35	2.88	18.77		14.55	-2.76	26.03
	-93.86	-16.72		-43.81	-130.15	10.36
	-56.31	-10.96		-26.74	-78.09	4.83
	-18.77	-5.19		-9.68	-26.03	-0.69
	0.00	0.00		0.00	0.00	0.00
	-18.77	-0.58		-7.38	-26.03	6.22
	-56.31	-6.35		-24.44	-78.09	11.75
	-93.86	-12.11		-41.50	-130.15	17.27
	2.88	18.77		14.55	-2.76	26.03
4.40	2.90	18.79		14.56	-2.75	26.05
	-93.93	-16.82		-43.89	-130.25	10.25
	-56.36	-11.02		-26.80	-78.15	4.75
	-18.79	-5.23		-9.71	-26.05	-0.75
	0.00	0.00		0.00	0.00	0.00

	-18.79	-0.57		-7.38	-26.05	6.25
	-56.36	-6.36		-24.47	-78.15	11.75
	-93.93	-12.16		-41.56	-130.25	17.24
	2.90	18.79		14.56	-2.75	26.05
4.45	2.91	18.80		14.57	-2.74	26.07
	-94.00	-16.92		-43.97	-130.34	10.14
	-56.40	-11.09		-26.85	-78.20	4.67
	-18.80	-5.27		-9.74	-26.07	-0.80
	0.00	0.00		0.00	0.00	0.00
	-18.80	-0.55		-7.38	-26.07	6.27
	-56.40	-6.38		-24.50	-78.20	11.74
	-94.00	-12.20		-41.61	-130.34	17.21
	2.91	18.80		14.57	-2.74	26.07
4.50	2.93	18.81		14.59	-2.72	26.09
	-94.07	-17.01		-44.06	-130.44	10.03
	-56.44	-11.16		-26.91	-78.26	4.59
	-18.81	-5.31		-9.77	-26.09	-0.86
	0.00	0.00		0.00	0.00	0.00
	-18.81	-0.54		-7.38	-26.09	6.30
	-56.44	-6.39		-24.53	-78.26	11.74
	-94.07	-12.24		-41.67	-130.44	17.18
	2.93	18.81		14.59	-2.72	26.09

En la Tabla 4 se muestran las combinaciones de esfuerzos para las diagonales en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 4. Combinación de esfuerzos de las diagonales - 8 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)
0.50	378.01	1213.62	674.72	990.81	81.30	1674.71
	270.58	866.87	482.23	707.72	58.93	1196.22
	163.15	520.12	289.74	424.63	36.56	717.73
	55.71	173.37	97.24	141.54	14.18	239.24
	50.53	169.40	93.06	138.30	8.01	233.76
	155.50	508.19	281.14	414.89	29.87	701.27
	260.47	846.99	469.22	691.49	51.73	1168.78
	365.44	1185.78	657.30	968.08	73.59	1636.30
0.55	301.38	1063.10	571.83	859.94	30.93	1468.30
	215.84	759.35	408.73	614.24	22.95	1048.79
	130.31	455.61	245.64	368.55	14.97	629.27
	44.77	151.87	82.55	122.85	6.99	209.76
	39.74	148.06	78.52	119.76	0.96	204.49
	123.13	444.17	237.52	359.29	8.74	613.47

	206.52	740.29	396.52	598.82	16.52	1022.46
	289.91	1036.40	555.52	838.35	24.30	1431.44
0.60	261.84	962.10	510.44	775.29	13.23	1329.30
	187.60	687.22	364.89	553.78	10.31	949.50
	113.36	412.33	219.33	332.27	7.39	569.70
	39.13	137.44	73.78	110.76	4.47	189.90
	34.15	133.70	69.82	107.74	-1.51	184.73
	106.37	401.09	211.40	323.21	1.33	554.18
	178.58	668.49	352.99	538.69	4.17	923.63
	250.80	935.89	494.58	754.17	7.01	1293.08
	219.90	868.28	450.06	695.27	-10.26	1200.38
0.65	157.65	620.20	321.76	496.62	-6.46	857.41
	95.40	372.12	193.46	297.97	-2.67	514.45
	33.14	124.04	65.16	99.32	1.12	171.48
	28.26	120.40	61.29	96.41	-4.77	166.45
	88.68	361.19	185.82	289.22	-8.46	499.35
	149.11	601.99	310.36	482.04	-12.14	832.24
	209.54	842.78	434.89	674.86	-15.82	1165.14
	195.24	799.23	409.62	638.02	-19.14	1105.24
0.70	140.03	570.88	292.88	455.73	-12.81	789.46
	84.83	342.53	176.13	273.44	-6.47	473.67
	29.62	114.18	59.38	91.15	-0.14	157.89
	24.78	110.59	55.56	88.28	-6.01	152.93
	78.25	331.76	168.64	264.84	-12.14	458.79
	131.72	552.93	281.71	441.41	-18.28	764.64
	185.19	774.11	394.79	617.97	-24.42	1070.50
	174.37	739.98	375.12	588.99	-26.37	1023.60
0.75	125.13	528.56	268.23	420.71	-17.97	731.14
	75.89	317.14	161.34	252.42	-9.56	438.68
	26.65	105.71	54.46	84.14	-1.16	146.23
	21.84	102.17	50.67	81.32	-7.00	141.33
	69.43	306.52	153.98	243.97	-15.12	424.00
	117.02	510.87	257.29	406.62	-23.25	706.67
	164.61	715.22	360.60	569.27	-31.37	989.34
	161.90	694.02	350.74	551.93	-26.93	960.09
0.80	116.23	495.73	250.82	394.23	-18.37	685.78
	70.55	297.44	150.90	236.54	-9.80	411.47
	24.87	99.15	50.98	78.85	-1.23	137.16
	20.06	95.63	47.21	76.05	-7.08	132.29
	64.12	286.88	143.58	228.15	-15.34	396.87
	108.17	478.14	239.96	380.25	-23.61	661.45
	152.23	669.40	336.33	532.35	-31.87	926.03
	143.02	645.65	321.38	511.40	-35.34	893.52
0.85	102.74	461.18	229.85	365.29	-24.36	638.23
	62.46	276.71	138.32	219.17	-13.39	382.94

	22.18	92.24	46.79	73.06	-2.42	127.65
	17.42	88.78	43.07	70.32	-8.23	122.87
	56.19	266.35	131.17	210.97	-18.79	368.60
	94.96	443.91	219.27	351.61	-29.36	614.33
	133.73	621.48	307.38	492.26	-39.92	860.07
0.90	130.94	607.44	300.01	480.15	-38.12	840.80
	94.12	433.89	214.59	342.96	-26.35	600.57
	57.29	260.33	129.16	205.78	-14.58	360.34
	20.47	86.78	43.74	68.59	-2.81	120.11
	15.72	83.36	40.04	65.89	-8.61	115.39
	51.09	250.09	122.11	197.68	-19.92	346.16
	86.47	416.81	204.17	329.46	-31.23	576.93
	121.85	583.53	286.23	461.25	-42.54	807.71
0.95	122.83	576.01	283.61	454.91	-37.95	797.36
	88.32	411.44	202.87	324.94	-26.22	569.54
	53.82	246.86	122.13	194.96	-14.50	341.73
	19.31	82.29	41.40	64.99	-2.77	113.91
	14.56	78.89	37.71	62.31	-8.59	109.21
	47.65	236.68	115.12	186.92	-19.83	327.63
	80.73	394.47	192.53	311.54	-31.07	546.05
	113.81	552.25	269.93	436.15	-42.31	764.47
1.00	112.00	544.26	265.34	428.73	-41.34	753.60
	80.59	388.76	189.83	306.23	-28.64	538.28
	49.18	233.26	114.31	183.74	-15.94	322.97
	17.77	77.75	38.79	61.25	-3.24	107.66
	13.05	74.40	35.14	58.61	-9.05	103.02
	43.10	223.21	107.40	175.82	-21.20	309.05
	73.16	372.01	179.67	293.04	-33.35	515.09
	103.21	520.81	251.93	410.26	-45.50	721.12
1.05	100.57	513.96	247.20	403.44	-46.07	711.86
	72.43	367.11	176.87	288.17	-32.01	508.47
	44.29	220.27	106.54	172.90	-17.96	305.08
	16.15	73.42	36.20	57.63	-3.91	101.69
	11.45	70.13	32.59	55.05	-9.69	97.13
	38.33	210.38	99.77	165.14	-23.11	291.39
	65.20	350.63	166.94	275.24	-36.53	485.65
	92.08	490.89	234.12	385.33	-49.96	679.91
1.10	96.69	492.99	237.25	387.01	-43.86	682.81
	69.66	352.13	169.76	276.44	-30.43	487.72
	42.63	211.28	102.27	165.86	-17.01	292.63
	15.60	70.43	34.79	55.29	-3.58	97.54
	10.89	67.14	31.17	52.71	-9.39	92.99
	36.66	201.43	95.51	158.13	-22.19	278.98
	62.43	335.71	159.85	263.54	-34.99	464.97
	88.20	469.99	224.19	368.96	-47.79	650.96

1.15	93.29	474.03	228.31	372.19	-41.73	656.54
	67.24	338.59	163.38	265.85	-28.91	468.96
	41.18	203.15	98.45	159.51	-16.09	281.37
	15.13	67.72	33.52	53.17	-3.26	93.79
	10.40	64.44	29.90	50.60	-9.10	89.26
	35.20	193.33	91.69	151.80	-21.30	267.77
	59.99	322.22	153.48	252.99	-33.50	446.28
	84.79	451.10	215.28	354.19	-45.70	624.79
1.20	88.30	454.82	218.27	356.76	-41.67	630.00
	63.67	324.87	156.21	254.83	-28.86	450.00
	39.05	194.92	94.15	152.90	-16.05	270.00
	14.42	64.97	32.08	50.97	-3.24	90.00
	9.69	61.72	28.48	48.42	-9.09	85.50
	33.09	185.17	87.43	145.25	-21.26	256.49
	56.48	308.62	146.39	242.08	-33.42	427.48
	79.88	432.07	205.35	338.91	-45.59	598.48
1.25	81.23	434.72	206.56	340.12	-44.11	602.29
	58.62	310.51	147.85	242.94	-30.60	430.21
	36.02	186.31	89.13	145.77	-17.09	258.13
	13.42	62.10	30.42	48.59	-3.58	86.04
	8.71	58.89	26.84	46.08	-9.42	81.60
	30.14	176.68	82.52	138.24	-22.23	244.79
	51.58	294.47	138.20	230.40	-35.05	407.99
	73.01	412.26	193.88	322.56	-47.86	571.18
1.30	73.46	414.97	194.53	323.56	-47.61	575.11
	53.08	296.41	139.26	231.11	-33.10	410.79
	32.70	177.84	83.98	138.67	-18.58	246.48
	12.32	59.28	28.70	46.22	-4.06	82.16
	7.63	56.13	25.16	43.76	-9.90	77.79
	26.93	168.38	77.49	131.29	-23.64	233.36
	46.22	280.63	129.83	218.81	-37.38	388.93
	65.52	392.88	182.16	306.34	-51.13	544.50
1.35	71.43	401.88	188.57	313.41	-45.72	556.96
	51.63	287.06	135.00	223.86	-31.74	397.83
	31.83	172.23	81.43	134.32	-17.76	238.70
	12.04	57.41	27.86	44.77	-3.78	79.57
	7.33	54.27	24.31	42.32	-9.64	75.21
	26.05	162.80	74.95	126.96	-22.85	225.63
	44.76	271.34	125.58	211.60	-36.07	376.05
	63.47	379.87	176.22	296.24	-49.28	526.46
1.40	69.45	389.68	182.96	303.93	-44.06	540.05
	50.22	278.34	130.99	217.09	-30.55	385.75
	30.99	167.01	79.03	130.25	-17.04	231.45
	11.77	55.67	27.06	43.42	-3.53	77.15
	7.04	52.54	23.51	40.98	-9.42	72.81

	25.19	157.61	72.55	122.93	-22.17	218.43
	43.34	262.69	121.60	204.88	-34.92	364.05
	61.49	367.76	170.64	286.83	-47.67	509.68
1.45	67.72	378.47	177.86	295.24	-42.41	524.51
	48.99	270.34	127.35	210.88	-29.37	374.65
	30.26	162.20	76.84	126.53	-16.32	224.79
	11.53	54.07	26.34	42.18	-3.28	74.93
	6.79	50.95	22.78	39.74	-9.20	70.61
	24.44	152.85	70.37	119.23	-21.49	211.82
	42.09	254.74	117.97	198.72	-33.79	353.04
	59.74	356.64	165.56	278.20	-46.08	494.25
	64.44	366.38	171.45	285.48	-42.56	507.80
	46.65	261.70	122.77	203.92	-29.47	362.71
1.50	28.86	157.02	74.10	122.35	-16.38	217.63
	11.07	52.34	25.42	40.78	-3.28	72.54
	6.32	49.25	21.88	38.37	-9.23	68.26
	23.07	147.74	67.68	115.12	-21.54	204.77
	39.81	246.24	113.47	191.87	-33.86	341.29
	56.55	344.73	159.27	268.62	-46.18	477.80
	60.95	354.67	165.03	275.96	-43.13	491.64
	44.16	253.34	118.19	197.11	-29.87	351.17
1.55	27.37	152.00	71.35	118.27	-16.61	210.70
	10.58	50.67	24.51	39.42	-3.35	70.23
	5.83	47.61	20.98	37.04	-9.31	65.99
	21.61	142.82	64.99	111.12	-21.77	197.97
	37.38	238.03	109.00	185.20	-34.23	329.95
	53.16	333.24	153.00	259.28	-46.69	461.93
	58.39	344.45	159.75	267.77	-42.97	477.50
	42.33	246.03	114.42	191.26	-29.75	341.07
1.60	26.28	147.62	69.09	114.76	-16.53	204.64
	10.23	49.21	23.76	38.25	-3.31	68.21
	5.47	46.17	20.23	35.89	-9.29	64.00
	20.53	138.51	62.76	107.67	-21.70	192.01
	35.60	230.85	105.29	179.46	-34.10	320.02
	50.66	323.18	147.82	251.24	-46.50	448.03
	55.59	334.48	154.40	259.71	-43.21	463.74
	40.34	238.91	110.60	185.50	-29.92	331.24
1.65	25.09	143.35	66.80	111.30	-16.62	198.75
	9.84	47.78	23.00	37.10	-3.33	66.25
	5.07	44.77	19.48	34.76	-9.33	62.08
	19.37	134.32	60.52	104.29	-21.79	186.23
	33.66	223.87	101.56	173.82	-34.25	310.38
	47.95	313.41	142.60	243.35	-46.70	434.53
	54.54	326.71	150.96	253.72	-41.87	452.96
	39.59	233.36	108.14	181.23	-28.96	323.54

	24.65	140.02	65.33	108.74	-16.04	194.13
	9.70	46.67	22.52	36.25	-3.12	64.71
	4.91	43.68	18.99	33.92	-9.16	60.55
	18.90	131.03	59.06	101.76	-21.25	181.66
	32.89	218.38	99.12	169.59	-33.34	302.77
	46.88	305.73	139.19	237.43	-45.43	423.88
1.75	53.56	319.42	147.73	248.11	-40.61	442.85
	38.90	228.16	105.84	177.22	-28.05	316.32
	24.23	136.90	63.95	106.33	-15.49	189.79
	9.57	45.63	22.06	35.44	-2.93	63.26
	4.76	42.65	18.53	33.13	-9.00	59.13
	18.47	127.95	57.68	99.38	-20.74	177.39
	32.17	213.24	96.83	165.63	-32.49	295.64
	45.88	298.54	135.99	231.89	-44.23	413.90
1.80	50.83	310.76	142.89	241.02	-41.24	430.89
	36.95	221.97	102.38	172.15	-28.49	307.78
	23.07	133.18	61.88	103.29	-15.75	184.67
	9.19	44.39	21.38	34.43	-3.00	61.56
	4.38	41.44	17.86	32.14	-9.10	57.46
	17.33	124.33	55.67	96.42	-21.00	172.39
	30.29	207.21	93.48	160.71	-32.89	287.32
	43.25	290.10	131.29	224.99	-44.79	402.24
1.85	49.93	304.27	140.00	236.01	-40.15	421.90
	36.31	217.34	100.32	168.58	-27.71	301.36
	22.69	130.40	60.65	101.15	-15.27	180.81
	9.07	43.47	20.97	33.72	-2.83	60.27
	4.24	40.53	17.44	31.44	-8.96	56.20
	16.94	121.59	54.44	94.31	-20.56	168.60
	29.64	202.65	91.44	157.19	-32.17	280.99
	42.33	283.71	128.43	220.07	-43.77	393.39
1.90	49.16	298.25	137.37	231.38	-39.04	413.53
	35.77	213.03	98.44	165.27	-26.91	295.38
	22.37	127.82	59.52	99.16	-14.78	177.23
	8.97	42.61	20.60	33.05	-2.65	59.08
	4.12	39.68	17.07	30.79	-8.83	55.02
	16.60	119.05	53.32	92.36	-20.13	165.07
	29.07	198.42	89.57	153.93	-31.42	275.12
	41.55	277.78	125.82	215.51	-42.72	385.16
1.95	48.45	292.56	134.88	227.02	-37.99	405.64
	35.26	208.97	96.67	162.15	-26.15	289.75
	22.07	125.38	58.46	97.29	-14.32	173.85
	8.88	41.79	20.25	32.43	-2.48	57.95
	4.00	38.89	16.71	30.17	-8.70	53.92
	16.28	116.66	52.26	90.52	-19.71	161.75
	28.55	194.43	87.81	150.87	-30.72	269.58

	40.82	272.20	123.36	211.22	-41.73	377.41
2.00	47.78	287.19	132.54	222.89	-36.98	398.19
	34.79	205.14	95.00	159.21	-25.43	284.42
	21.79	123.08	57.46	95.53	-13.87	170.65
	8.80	41.03	19.92	31.84	-2.32	56.88
	3.90	38.13	16.37	29.60	-8.58	52.87
	15.97	114.40	51.27	88.79	-19.32	158.61
	28.05	190.66	86.16	147.98	-30.06	264.36
	40.13	266.93	121.05	207.17	-40.80	370.10
2.05	46.13	281.09	129.31	217.97	-37.05	389.77
	33.61	200.78	92.69	155.70	-25.47	278.40
	21.09	120.47	56.08	93.42	-13.89	167.04
	8.58	40.16	19.47	31.14	-2.31	55.68
	3.66	37.29	15.92	28.91	-8.60	51.70
	15.28	111.86	49.92	86.74	-19.35	155.10
	26.91	186.43	83.92	144.57	-30.11	258.51
	38.53	261.00	117.91	202.40	-40.86	361.91
2.10	45.55	276.30	127.23	214.30	-36.12	383.11
	33.21	197.36	91.21	153.07	-24.80	273.65
	20.86	118.41	55.19	91.84	-13.48	164.19
	8.51	39.47	19.18	30.61	-2.16	54.73
	3.56	36.62	15.62	28.40	-8.50	50.77
	15.02	109.85	49.04	85.20	-19.00	152.31
	26.48	183.08	82.45	142.00	-29.50	253.86
	37.93	256.31	115.86	198.80	-40.00	355.40
2.15	43.42	270.17	123.68	209.23	-36.83	374.66
	31.69	192.98	88.67	149.45	-25.30	267.61
	19.95	115.79	53.67	89.67	-13.77	160.57
	8.22	38.60	18.67	29.89	-2.24	53.52
	3.26	35.77	15.13	27.70	-8.61	49.61
	14.14	107.31	47.57	83.11	-19.29	148.82
	25.02	178.86	80.01	138.51	-29.98	248.03
	35.90	250.40	112.45	193.92	-40.66	347.25
2.20	42.94	265.88	121.84	205.95	-35.96	368.71
	31.35	189.92	87.37	147.11	-24.67	263.37
	19.75	113.95	52.89	88.26	-13.39	158.02
	8.16	37.98	18.42	29.42	-2.10	52.67
	3.18	35.17	14.87	27.25	-8.51	48.78
	13.92	105.52	46.79	81.74	-18.96	146.33
	24.65	175.87	78.72	136.23	-29.41	243.89
	35.39	246.22	110.64	190.72	-39.86	341.44
2.25	41.51	260.84	119.12	201.86	-36.10	361.75
	30.33	186.31	85.43	144.19	-24.77	258.39
	19.15	111.79	51.73	86.51	-13.43	155.03
	7.97	37.26	18.04	28.84	-2.10	51.68

	2.97	34.48	14.49	26.68	-8.54	47.82
	13.32	103.44	45.67	80.05	-19.03	143.45
	23.67	172.39	76.85	133.42	-29.52	239.09
	34.01	241.35	108.02	186.78	-40.00	334.72
2.30	41.10	256.98	117.48	198.92	-35.29	356.39
	30.04	183.56	84.26	142.08	-24.18	254.57
	18.98	110.14	51.03	85.25	-13.07	152.74
	7.92	36.71	17.81	28.42	-1.97	50.91
	2.90	33.94	14.25	26.27	-8.45	47.07
	13.12	101.83	44.97	78.82	-18.72	141.22
	23.35	169.71	75.69	131.37	-29.00	235.37
	33.57	237.60	106.41	183.92	-39.27	329.51
2.35	40.70	253.31	115.92	196.12	-34.52	351.30
	29.76	180.94	83.15	140.08	-23.62	250.93
	18.82	108.56	50.37	84.05	-12.73	150.56
	7.88	36.19	17.59	28.02	-1.83	50.19
	2.83	33.43	14.03	25.88	-8.37	46.37
	12.94	100.30	44.31	77.65	-18.43	139.10
	23.05	167.17	74.59	129.42	-28.50	231.83
	33.16	234.04	104.88	181.19	-38.56	324.56
2.40	40.34	249.82	114.44	193.45	-33.77	346.45
	29.50	178.44	82.09	138.18	-23.08	247.46
	18.67	107.07	49.74	82.91	-12.40	148.48
	7.84	35.69	17.39	27.64	-1.71	49.49
	2.76	32.95	13.82	25.52	-8.29	45.69
	12.76	98.85	43.68	76.55	-18.16	137.08
	22.76	164.75	73.55	127.58	-28.02	228.47
	32.77	230.65	103.42	178.61	-37.89	319.86
2.45	39.99	246.49	113.04	190.91	-33.05	341.83
	29.26	176.07	81.09	136.37	-22.56	244.16
	18.53	105.64	49.14	81.82	-12.08	146.50
	7.80	35.21	17.19	27.27	-1.59	48.83
	2.70	32.49	13.61	25.16	-8.22	45.06
	12.60	97.47	43.09	75.49	-17.89	135.17
	22.50	162.45	72.56	125.82	-27.57	225.28
	32.40	227.43	102.04	176.15	-37.25	315.39
2.50	39.67	243.32	111.70	188.49	-32.37	337.42
	29.03	173.80	80.13	134.64	-22.07	241.02
	18.40	104.28	48.57	80.78	-11.77	144.61
	7.77	34.76	17.01	26.93	-1.47	48.20
	2.64	32.05	13.42	24.83	-8.14	44.45
	12.44	96.15	42.52	74.49	-17.64	133.34
	22.24	160.26	71.62	124.15	-27.14	222.23
	32.05	224.36	100.73	173.81	-36.64	311.13
2.55	39.36	240.29	110.42	186.19	-31.70	333.22

	28.82	171.64	79.22	132.99	-21.58	238.01
	18.28	102.98	48.03	79.79	-11.47	142.81
	7.74	34.33	16.83	26.60	-1.35	47.60
	2.58	31.63	13.23	24.51	-8.08	43.87
	12.29	94.90	41.98	73.53	-17.40	131.60
	22.00	158.17	70.73	122.55	-26.72	219.34
	31.72	221.44	99.48	171.58	-36.05	307.07
2.60	39.07	237.40	109.20	183.98	-31.06	329.20
	28.62	169.57	78.36	131.42	-21.12	235.14
	18.17	101.74	47.51	78.85	-11.18	141.09
	7.71	33.91	16.67	26.28	-1.24	47.03
	2.52	31.24	13.06	24.21	-8.02	43.31
	12.15	93.71	41.47	72.62	-17.17	129.94
	21.78	156.18	69.88	121.04	-26.33	216.57
	31.40	218.65	98.29	169.45	-35.48	303.20
2.65	37.43	233.26	106.67	180.50	-31.82	323.51
	27.45	166.62	76.55	128.93	-21.65	231.08
	17.47	99.97	46.43	77.36	-11.49	138.65
	7.49	33.32	16.31	25.79	-1.32	46.22
	2.29	30.68	12.71	23.74	-8.14	42.54
	11.47	92.03	40.44	71.21	-17.49	127.63
	20.66	153.38	68.16	118.69	-26.85	212.72
	29.84	214.73	95.89	166.16	-36.21	297.80
2.70	37.19	230.64	105.58	178.51	-31.20	319.86
	27.28	164.74	75.78	127.50	-21.21	228.47
	17.38	98.84	45.97	76.50	-11.21	137.08
	7.47	32.95	16.16	25.50	-1.22	45.69
	2.24	30.32	12.55	23.46	-8.08	42.04
	11.35	90.95	39.98	70.39	-17.28	126.13
	20.46	151.58	67.40	117.32	-26.47	210.22
	29.58	212.21	94.83	164.24	-35.67	294.30
2.75	36.90	228.05	104.47	176.53	-30.68	316.27
	27.08	162.90	74.99	126.09	-20.83	225.91
	17.26	97.74	45.50	75.66	-10.97	135.55
	7.45	32.58	16.01	25.22	-1.12	45.18
	2.18	29.96	12.39	23.19	-8.03	41.55
	11.21	89.89	39.51	69.58	-17.10	124.66
	20.24	149.81	66.63	115.97	-26.16	207.77
	29.26	209.74	93.75	162.35	-35.22	290.87
2.80	36.69	225.65	103.48	174.70	-30.11	312.93
	26.94	161.18	74.28	124.79	-20.41	223.52
	17.18	96.71	45.08	74.87	-10.71	134.11
	7.43	32.24	15.88	24.96	-1.02	44.70
	2.13	29.63	12.25	22.94	-7.98	41.10
	11.10	88.90	39.09	68.83	-16.90	123.29

	20.06	148.17	65.94	114.72	-25.81	205.48
	29.03	207.44	92.78	160.61	-34.72	287.68
2.85	36.49	223.35	102.53	172.96	-29.55	309.73
	26.80	159.53	73.61	123.54	-20.00	221.24
	17.11	95.72	44.68	74.12	-10.46	132.74
	7.42	31.91	15.75	24.71	-0.91	44.25
	2.09	29.32	12.11	22.71	-7.93	40.66
	10.99	87.96	38.69	68.12	-16.70	121.98
	19.90	146.60	65.28	113.53	-25.48	203.30
	28.81	205.24	91.86	158.94	-34.25	284.63
	2.90	36.31	221.14	101.63	171.28	-29.01
26.68		157.96	72.96	122.34	-19.61	219.05
17.04		94.77	44.30	73.41	-10.21	131.43
7.41		31.59	15.63	24.47	-0.81	43.81
2.05		29.02	11.98	22.48	-7.89	40.24
10.90		87.06	38.31	67.43	-16.52	120.73
19.75		145.10	64.64	112.39	-25.15	201.22
28.60		203.14	90.98	157.34	-33.79	281.70
2.95	36.14	219.02	100.76	169.68	-28.49	303.72
	26.56	156.44	72.35	121.20	-19.23	216.94
	16.98	93.87	43.93	72.72	-9.97	130.17
	7.40	31.29	15.51	24.24	-0.72	43.39
	2.00	28.73	11.85	22.26	-7.84	39.84
	10.80	86.20	37.95	66.78	-16.34	119.53
	19.60	143.66	64.04	111.30	-24.84	199.22
	28.40	201.13	90.14	155.82	-33.34	278.91
3.00	35.98	216.99	99.94	168.14	-27.98	300.90
	26.45	154.99	71.76	120.10	-18.86	214.93
	16.92	93.00	43.58	72.06	-9.74	128.96
	7.39	31.00	15.40	24.02	-0.62	42.99
	1.96	28.46	11.73	22.05	-7.80	39.46
	10.71	85.37	37.60	66.15	-16.17	118.39
	19.46	142.29	63.46	110.25	-24.54	197.31
	28.21	199.20	89.33	154.36	-32.92	276.23
3.05	35.83	215.04	99.14	166.66	-27.49	298.19
	26.35	153.60	71.19	119.05	-18.50	212.99
	16.87	92.16	43.25	71.43	-9.51	127.80
	7.38	30.72	15.30	23.81	-0.53	42.60
	1.93	28.19	11.61	21.85	-7.76	39.10
	10.63	84.58	37.26	65.55	-16.01	117.29
	19.33	140.97	62.91	109.26	-24.26	195.48
	28.03	197.36	88.57	152.96	-32.50	273.67
3.10	34.77	212.24	97.46	164.33	-27.93	294.34
	25.59	151.60	70.00	117.38	-18.81	210.25
	16.42	90.96	42.53	70.43	-9.69	126.15

	7.25	30.32	15.06	23.48	-0.57	42.05
	1.77	27.82	11.38	21.54	-7.85	38.58
	10.18	83.46	36.58	64.62	-16.21	115.74
	18.60	139.10	61.78	107.70	-24.58	192.91
	27.02	194.74	86.99	150.78	-32.95	270.07
3.15	34.64	210.45	96.74	162.97	-27.46	291.85
	25.51	150.32	69.48	116.41	-18.46	208.46
	16.38	90.19	42.23	69.84	-9.47	125.08
	7.25	30.06	14.97	23.28	-0.48	41.69
	1.73	27.58	11.27	21.36	-7.81	38.25
	10.11	82.74	36.28	64.07	-16.06	114.74
	18.49	137.89	61.28	106.78	-24.31	191.23
	26.86	193.05	86.29	149.50	-32.56	267.72
3.20	34.52	208.72	96.05	161.67	-27.00	289.45
	25.43	149.09	68.99	115.48	-18.13	206.75
	16.34	89.45	41.93	69.29	-9.26	124.05
	7.24	29.82	14.88	23.10	-0.39	41.35
	1.70	27.35	11.17	21.18	-7.78	37.92
	10.04	82.04	35.99	63.54	-15.91	113.77
	18.38	136.73	60.80	105.91	-24.05	189.62
	26.72	191.43	85.62	148.27	-32.19	265.46
3.25	34.42	207.06	95.39	160.41	-26.56	287.14
	25.36	147.90	68.52	114.58	-17.80	205.10
	16.30	88.74	41.66	68.75	-9.05	123.06
	7.24	29.58	14.79	22.92	-0.30	41.02
	1.66	27.12	11.07	21.01	-7.75	37.61
	9.97	81.37	35.71	63.04	-15.77	112.84
	18.27	135.62	60.34	105.07	-23.80	188.07
	26.58	189.87	84.98	147.10	-31.82	263.30
3.30	34.31	205.46	94.75	159.21	-26.12	284.92
	25.29	146.76	68.07	113.72	-17.49	203.51
	16.27	88.06	41.39	68.23	-8.85	122.11
	7.25	29.35	14.71	22.74	-0.22	40.70
	1.63	26.91	10.98	20.85	-7.72	37.32
	9.90	80.73	35.44	62.56	-15.64	111.95
	18.17	134.55	59.90	104.26	-23.55	186.59
	26.45	188.37	84.36	145.97	-31.47	261.22
3.35	33.12	202.83	93.04	156.95	-26.79	281.30
	24.45	144.88	66.85	112.11	-17.96	200.93
	15.77	86.93	40.66	67.27	-9.12	120.56
	7.09	28.98	14.47	22.42	-0.29	40.19
	1.45	26.56	10.74	20.55	-7.84	36.84
	9.41	79.69	34.75	61.66	-15.94	110.51
	17.36	132.81	58.76	102.77	-24.04	184.19
	25.32	185.93	82.77	143.88	-32.13	257.87

3.40	33.05	201.36	92.47	155.85	-26.37	279.25
	24.40	143.83	66.45	111.32	-17.65	199.47
	15.75	86.30	40.42	66.79	-8.93	119.68
	7.10	28.77	14.40	22.26	-0.20	39.89
	1.42	26.37	10.66	20.41	-7.81	36.57
	9.35	79.10	34.51	61.22	-15.80	109.70
	17.28	131.83	58.36	102.04	-23.80	182.83
	25.21	184.56	82.22	142.85	-31.80	255.96
3.45	32.98	199.94	91.92	154.78	-25.96	277.28
	24.35	142.81	66.05	110.56	-17.35	198.06
	15.73	85.69	40.19	66.34	-8.73	118.83
	7.10	28.56	14.33	22.11	-0.12	39.61
	1.39	26.18	10.57	20.27	-7.78	36.30
	9.30	78.53	34.28	60.80	-15.68	108.91
	17.20	130.89	57.98	101.33	-23.57	181.52
	25.11	183.25	81.69	141.86	-31.47	254.13
3.50	32.91	198.57	91.39	153.76	-25.56	275.38
	24.31	141.84	65.68	109.83	-17.05	196.70
	15.71	85.10	39.97	65.90	-8.55	118.02
	7.11	28.37	14.26	21.97	-0.04	39.34
	1.37	26.00	10.49	20.13	-7.76	36.05
	9.25	77.99	34.05	60.39	-15.56	108.16
	17.13	129.99	57.62	100.65	-23.35	180.26
	25.01	181.98	81.18	140.91	-31.15	252.37
3.55	32.05	196.45	90.07	151.97	-25.97	272.46
	23.70	140.32	64.74	108.55	-17.34	194.61
	15.35	84.19	39.41	65.13	-8.71	116.77
	7.00	28.06	14.08	21.71	-0.07	38.92
	1.23	25.72	10.31	19.89	-7.84	35.67
	8.88	77.15	33.52	59.68	-15.76	107.01
	16.53	128.59	56.74	99.47	-23.67	178.34
	24.19	180.02	79.95	139.26	-31.58	249.68
3.60	32.00	195.18	89.59	151.01	-25.59	270.69
	23.67	139.41	64.40	107.87	-17.06	193.35
	15.34	83.65	39.21	64.72	-8.53	116.01
	7.01	27.88	14.02	21.57	0.01	38.67
	1.21	25.55	10.24	19.77	-7.82	35.44
	8.84	76.65	33.32	59.31	-15.64	106.31
	16.47	127.75	56.40	98.85	-23.46	177.18
	24.10	178.85	79.48	138.38	-31.28	248.05
3.65	31.95	193.96	89.12	150.10	-25.21	268.99
	23.64	138.54	64.07	107.21	-16.78	192.14
	15.33	83.12	39.01	64.33	-8.35	115.28
	7.02	27.71	13.96	21.44	0.09	38.43
	1.18	25.39	10.16	19.65	-7.81	35.21

	8.79	76.17	33.12	58.95	-15.53	105.64
	16.41	126.95	56.08	98.24	-23.26	176.06
	24.02	177.73	79.04	137.54	-30.99	246.49
3.70	31.91	192.77	88.67	149.22	-24.84	267.35
	23.62	137.70	63.75	106.58	-16.51	190.96
	15.33	82.62	38.83	63.95	-8.17	114.58
	7.03	27.54	13.90	21.32	0.16	38.19
	1.15	25.23	10.10	19.53	-7.79	35.00
	8.75	75.70	32.93	58.60	-15.43	104.99
	16.35	126.17	55.77	97.67	-23.06	174.98
	23.95	176.64	78.61	136.73	-30.70	244.98
		31.88	191.63	88.24	148.36	-24.48
3.75	23.60	136.88	63.44	105.97	-16.24	189.83
	15.32	82.13	38.65	63.58	-8.00	113.90
	7.05	27.38	13.85	21.19	0.24	37.97
	1.13	25.09	10.03	19.42	-7.77	34.79
	8.71	75.26	32.75	58.27	-15.32	104.37
	16.30	125.43	55.47	97.11	-22.88	173.95
	23.88	175.60	78.19	135.95	-30.43	243.53
		31.85	190.53	87.83	147.54	-24.13
3.80	23.58	136.09	63.15	105.39	-15.98	188.73
	15.32	81.66	38.48	63.23	-7.83	113.24
	7.06	27.22	13.80	21.08	0.32	37.75
	1.10	24.94	9.96	19.31	-7.76	34.59
	8.68	74.83	32.58	57.94	-15.22	103.77
	16.25	124.71	55.19	96.57	-22.69	172.95
	23.82	174.60	77.80	135.20	-30.16	242.13
		31.82	189.47	87.43	146.75	-23.78
3.85	23.57	135.34	62.87	104.82	-15.73	187.68
	15.32	81.20	38.31	62.89	-7.67	112.61
	7.07	27.07	13.75	20.96	0.39	37.54
	1.08	24.80	9.90	19.21	-7.74	34.40
	8.64	74.41	32.41	57.64	-15.13	103.19
	16.20	124.02	54.91	96.06	-22.51	171.99
	23.76	173.63	77.42	134.48	-29.90	240.78
		31.80	188.44	87.05	145.98	-23.45
3.90	23.56	134.60	62.60	104.27	-15.48	186.66
	15.32	80.76	38.15	62.56	-7.51	111.99
	7.09	26.92	13.71	20.85	0.46	37.33
	1.06	24.67	9.84	19.11	-7.73	34.21
	8.61	74.01	32.25	57.34	-15.03	102.64
	16.16	123.36	54.65	95.56	-22.34	171.06
	23.71	172.70	77.06	133.79	-29.64	239.49
		31.78	187.45	86.68	145.25	-23.11
3.95	23.56	133.89	62.34	103.75	-15.23	185.67

	15.33	80.34	38.00	62.25	-7.35	111.40
	7.10	26.78	13.66	20.75	0.54	37.13
	1.03	24.54	9.79	19.02	-7.72	34.03
	8.57	73.63	32.09	57.05	-14.94	102.10
	16.12	122.71	54.40	95.09	-22.17	170.17
	23.66	171.80	76.71	133.12	-29.39	238.24
4.00	31.59	186.31	86.15	144.35	-22.97	258.36
	23.42	133.08	61.96	103.11	-15.12	184.54
	15.26	79.85	37.78	61.86	-7.27	110.72
	7.09	26.62	13.60	20.62	0.58	36.91
	0.99	24.40	9.71	18.90	-7.73	33.83
	8.47	73.19	31.87	56.70	-14.93	101.49
	15.96	121.98	54.04	94.51	-22.12	169.15
	23.44	170.77	76.20	132.31	-29.32	236.81
4.05	31.58	185.38	85.81	143.66	-22.65	257.07
	23.42	132.41	61.72	102.62	-14.88	183.62
	15.26	79.45	37.64	61.57	-7.11	110.17
	7.11	26.48	13.56	20.52	0.66	36.72
	0.96	24.28	9.65	18.81	-7.72	33.66
	8.44	72.83	31.73	56.44	-14.84	100.99
	15.92	121.38	53.81	94.07	-21.96	168.32
	23.40	169.93	75.88	131.69	-29.08	235.65
4.10	31.58	184.48	85.48	143.00	-22.33	255.82
	23.43	131.77	61.50	102.14	-14.64	182.73
	15.27	79.06	37.51	61.29	-6.96	109.64
	7.12	26.35	13.52	20.43	0.73	36.55
	0.94	24.16	9.60	18.73	-7.71	33.50
	8.42	72.48	31.59	56.19	-14.76	100.51
	15.89	120.81	53.58	93.64	-21.81	167.52
	23.36	169.13	75.58	131.10	-28.85	234.53
4.15	31.58	183.62	85.17	142.36	-22.02	254.61
	23.43	131.16	61.28	101.68	-14.41	181.87
	15.29	78.69	37.38	61.01	-6.81	109.12
	7.14	26.23	13.48	20.34	0.80	36.37
	0.92	24.05	9.55	18.65	-7.71	33.35
	8.39	72.15	31.46	55.94	-14.68	100.05
	15.86	120.25	53.37	93.23	-21.65	166.75
	23.33	168.36	75.28	130.53	-28.63	233.45
4.20	31.58	182.78	84.87	141.74	-21.71	253.44
	23.44	130.56	61.07	101.24	-14.19	181.03
	15.30	78.33	37.26	60.74	-6.66	108.62
	7.16	26.11	13.45	20.25	0.87	36.21
	0.90	23.94	9.50	18.57	-7.70	33.20
	8.37	71.83	31.33	55.70	-14.60	99.60
	15.83	119.72	53.17	92.84	-21.50	166.01

	23.30	167.61	75.00	129.97	-28.41	232.41
4.25	31.59	181.97	84.59	141.14	-21.41	252.31
	23.45	129.98	60.86	100.81	-13.96	180.22
	15.31	77.99	37.14	60.49	-6.51	108.13
	7.18	26.00	13.42	20.16	0.94	36.04
	0.88	23.84	9.45	18.49	-7.69	33.06
	8.34	71.52	31.21	55.48	-14.53	99.17
	15.81	119.21	52.97	92.46	-21.36	165.29
	23.27	166.89	74.73	129.44	-28.19	231.40
4.30	31.60	181.18	84.31	140.56	-21.12	251.22
	23.46	129.42	60.67	100.40	-13.74	179.44
	15.33	77.65	37.03	60.24	-6.37	107.67
	7.20	25.88	13.39	20.08	1.01	35.89
	0.86	23.74	9.41	18.42	-7.69	32.92
	8.32	71.23	31.09	55.26	-14.45	98.76
	15.78	118.71	52.78	92.09	-21.22	164.60
	23.24	166.19	74.47	128.93	-27.98	230.44
4.35	30.73	179.54	83.17	139.12	-21.70	248.97
	22.85	128.25	59.86	99.37	-14.15	177.84
	14.97	76.95	36.54	59.62	-6.60	106.70
	7.09	25.65	13.23	19.87	0.95	35.57
	0.72	23.53	9.25	18.23	-7.80	32.63
	7.95	70.59	30.64	54.70	-14.73	97.89
	15.18	117.65	52.02	91.17	-21.65	163.15
	22.41	164.72	73.41	127.63	-28.58	228.41
4.40	30.75	178.81	82.92	138.58	-21.41	247.96
	22.87	127.72	59.68	98.99	-13.94	177.11
	14.99	76.63	36.44	59.39	-6.46	106.27
	7.11	25.54	13.20	19.80	1.02	35.42
	0.71	23.44	9.21	18.17	-7.79	32.50
	7.94	70.32	30.53	54.50	-14.66	97.51
	15.17	117.19	51.85	90.83	-21.52	162.51
	22.40	164.07	73.17	127.16	-28.38	227.52
4.45	30.78	178.10	82.68	138.06	-21.13	246.97
	22.90	127.22	59.51	98.62	-13.72	176.41
	15.01	76.33	36.35	59.17	-6.32	105.84
	7.13	25.44	13.18	19.72	1.09	35.28
	0.69	23.35	9.17	18.10	-7.79	32.38
	7.92	70.05	30.43	54.30	-14.59	97.14
	15.15	116.75	51.69	90.50	-21.38	161.89
	22.39	163.45	72.95	126.71	-28.18	226.65
4.50	30.80	177.42	82.45	137.56	-20.84	246.01
	22.92	126.73	59.35	98.26	-13.51	175.72
	15.04	76.04	36.25	58.95	-6.18	105.43
	7.15	25.35	13.16	19.65	1.15	35.14

	0.67	23.26	9.13	18.04	-7.79	32.26
	7.90	69.79	30.33	54.11	-14.52	96.78
	15.14	116.32	51.53	90.19	-21.25	161.29
	22.37	162.85	72.73	126.27	-27.98	225.81

A2.1.2.- Cercha con 10 divisiones del cordón

En la Figura 2 se indica el cálculo de la cercha con el cordón dividido en 10 espacios para alturas desde 50cm hasta 450cm con intervalos de 5cm, con el software Matlab2018.

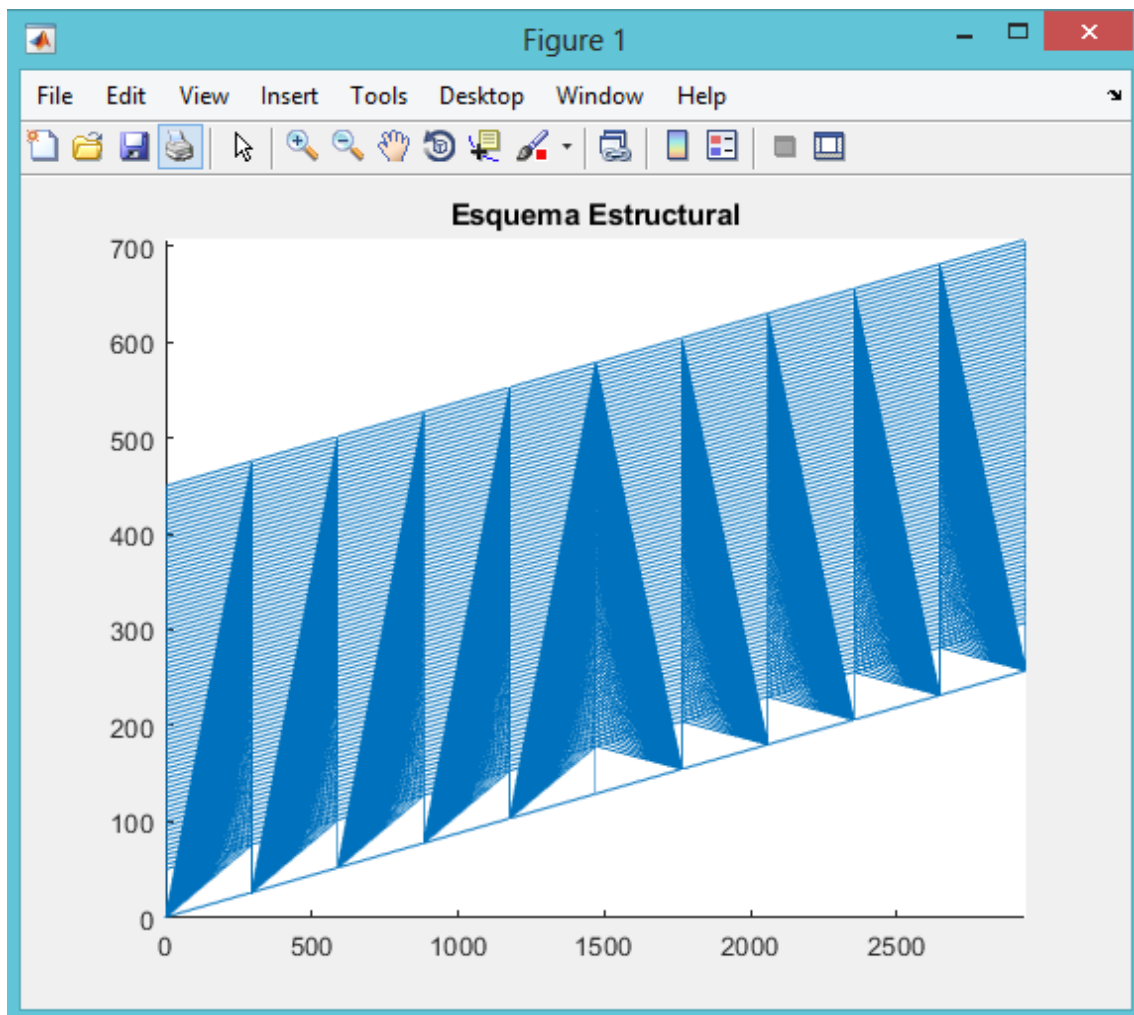


Figura 2. Cercha con el cordón dividido en 10 espacios (ejes en cm)

En la Tabla 5 se muestran las combinaciones de esfuerzos para el cordón inferior en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 5. Combinación de esfuerzos del cordón inferior - 10 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)
0.50	252.36	996.31	515.88	796.75	-11.16	1377.56
	78.52	298.89	156.17	239.03	0.87	413.27
	-199.26	-46.09	-159.35	-100.99	-275.51	8.80
	-498.16	-121.49	-398.38	-255.59	-688.78	12.62
	-597.79	-147.66	-478.05	-307.65	-826.54	12.33
	-597.79	-147.66	-478.05	-307.65	-826.54	12.33
	-498.16	-124.62	-398.38	-257.16	-688.78	7.93
	-199.26	-52.35	-159.35	-104.11	-275.51	-0.58
	69.14	298.89	151.48	239.03	-13.20	413.27
	239.85	996.31	509.62	796.75	-29.93	1377.56
0.55	206.42	882.17	445.70	700.75	-32.86	1220.51
	64.74	264.65	135.12	210.23	-5.64	366.15
	-176.43	-36.90	-140.15	-86.95	-244.10	13.14
	-441.09	-98.52	-350.38	-220.50	-610.25	23.47
	-529.30	-120.10	-420.45	-265.54	-732.31	25.35
	-529.30	-120.10	-420.45	-265.54	-732.31	25.35
	-441.09	-101.64	-350.38	-222.07	-610.25	18.78
	-176.43	-43.16	-140.15	-90.08	-244.10	3.76
	55.36	264.65	130.42	210.23	-19.71	366.15
	193.90	882.17	439.44	700.75	-51.63	1220.51
0.60	174.58	793.50	393.66	627.20	-44.50	1098.34
	55.19	238.05	119.51	188.16	-9.13	329.50
	-158.70	-30.54	-125.44	-76.54	-219.67	15.47
	-396.75	-82.60	-313.60	-194.48	-549.17	29.29
	-476.10	-100.99	-376.32	-234.32	-659.00	32.33
	-476.10	-100.99	-376.32	-234.32	-659.00	32.33
	-396.75	-85.73	-313.60	-196.05	-549.17	24.60
	-158.70	-36.79	-125.44	-79.67	-219.67	6.08
	45.80	238.05	114.81	188.16	-23.20	329.50
	162.07	793.50	387.40	627.20	-63.27	1098.34
0.65	156.92	727.75	358.90	574.24	-45.07	1007.49
	49.89	218.32	109.08	172.27	-9.30	302.25
	-145.55	-27.00	-114.85	-69.59	-201.50	15.58
	-363.87	-73.77	-287.12	-177.11	-503.74	29.57
	-436.65	-90.40	-344.54	-213.47	-604.49	32.67
	-436.65	-90.40	-344.54	-213.47	-604.49	32.67
	-363.87	-76.89	-287.12	-178.67	-503.74	24.88
	-145.55	-33.26	-114.85	-72.72	-201.50	6.20
	40.51	218.32	104.39	172.27	-23.37	302.25
	144.40	727.75	352.65	574.24	-63.84	1007.49

0.70	134.91	664.52	322.25	521.98	-52.42	920.34
	43.29	199.36	98.08	156.59	-11.50	276.10
	-132.90	-22.60	-104.40	-62.26	-184.07	17.05
	-332.26	-62.76	-260.99	-158.78	-460.17	33.25
	-398.71	-77.19	-313.19	-191.47	-552.21	37.09
	-398.71	-77.19	-313.19	-191.47	-552.21	37.09
	-332.26	-65.89	-260.99	-160.34	-460.17	28.56
	-132.90	-28.86	-104.40	-65.39	-184.07	7.67
	33.90	199.36	93.39	156.59	-25.58	276.10
	122.40	664.52	315.99	521.98	-71.19	920.34
0.75	120.46	614.34	295.10	481.30	-54.18	851.05
	38.95	184.30	89.94	144.39	-12.03	255.32
	-122.87	-19.71	-96.26	-56.83	-170.21	17.41
	-307.17	-55.54	-240.65	-145.20	-425.53	34.13
	-368.61	-68.52	-288.78	-175.18	-510.63	38.14
	-368.61	-68.52	-288.78	-175.18	-510.63	38.14
	-307.17	-58.66	-240.65	-146.77	-425.53	29.44
	-122.87	-25.97	-96.26	-59.96	-170.21	8.02
	29.57	184.30	85.24	144.39	-26.11	255.32
	107.94	614.34	288.84	481.30	-72.95	851.05
0.80	108.96	571.58	272.48	446.86	-54.57	791.97
	35.50	171.47	83.15	134.06	-12.15	237.59
	-114.32	-17.41	-89.37	-52.31	-158.39	17.48
	-285.79	-49.79	-223.43	-133.90	-395.99	34.32
	-342.95	-61.62	-268.11	-161.61	-475.18	38.37
	-342.95	-61.62	-268.11	-161.61	-475.18	38.37
	-285.79	-52.91	-223.43	-135.46	-395.99	29.63
	-114.32	-23.67	-89.37	-55.44	-158.39	8.10
	26.12	171.47	78.46	134.06	-26.23	237.59
	96.44	571.58	266.23	446.86	-73.34	791.97
0.85	98.36	533.41	252.09	416.02	-55.36	739.24
	32.32	160.02	77.03	124.81	-12.38	221.77
	-106.68	-15.29	-83.20	-48.23	-147.85	17.64
	-266.70	-44.49	-208.01	-123.70	-369.62	34.72
	-320.04	-55.26	-249.61	-149.38	-443.54	38.85
	-320.04	-55.26	-249.61	-149.38	-443.54	38.85
	-266.70	-47.62	-208.01	-125.26	-369.62	30.03
	-106.68	-21.55	-83.20	-51.36	-147.85	8.26
	22.94	160.02	72.34	124.81	-26.46	221.77
	85.85	533.41	245.83	416.02	-74.13	739.24
0.90	88.70	499.23	233.71	388.36	-56.31	692.03
	29.42	149.77	71.52	116.51	-12.67	207.61
	-99.85	-13.36	-77.67	-44.55	-138.41	17.83
	-249.61	-39.66	-194.18	-114.51	-346.02	35.20
	-299.54	-49.46	-233.01	-138.35	-415.22	39.42

	-299.54	-49.46	-233.01	-138.35	-415.22	39.42
	-249.61	-42.78	-194.18	-116.07	-346.02	30.50
	-99.85	-19.62	-77.67	-47.68	-138.41	8.45
	20.04	149.77	66.83	116.51	-26.75	207.61
	76.18	499.23	227.45	388.36	-75.08	692.03
0.95	84.46	473.05	221.67	368.02	-52.76	655.74
	28.15	141.91	67.91	110.41	-11.60	196.72
	-94.61	-12.51	-73.60	-42.14	-131.15	17.12
	-236.52	-37.54	-184.01	-108.49	-327.87	33.42
	-283.83	-46.92	-220.81	-131.13	-393.45	37.28
	-283.83	-46.92	-220.81	-131.13	-393.45	37.28
	-236.52	-40.66	-184.01	-110.05	-327.87	28.72
	-94.61	-18.77	-73.60	-45.27	-131.15	7.74
	18.77	141.91	63.22	110.41	-25.68	196.72
	71.94	473.05	215.41	368.02	-71.53	655.74
1.00	74.89	443.74	205.09	343.96	-55.30	615.32
	25.28	133.12	62.93	103.19	-12.37	184.60
	-88.75	-10.60	-68.79	-38.83	-123.06	17.63
	-221.87	-32.75	-171.98	-100.20	-307.66	34.69
	-266.25	-41.18	-206.38	-121.18	-369.19	38.81
	-266.25	-41.18	-206.38	-121.18	-369.19	38.81
	-221.87	-35.88	-171.98	-101.76	-307.66	30.00
	-88.75	-16.86	-68.79	-41.96	-123.06	8.25
	15.90	133.12	58.24	103.19	-26.45	184.60
	62.38	443.74	198.83	343.96	-74.07	615.32
1.05	71.93	422.92	195.78	327.89	-51.92	586.43
	24.39	126.88	60.14	98.37	-11.35	175.93
	-84.58	-10.01	-65.58	-36.97	-117.29	16.95
	-211.46	-31.27	-163.94	-95.54	-293.22	33.00
	-253.75	-39.40	-196.73	-115.59	-351.86	36.78
	-253.75	-39.40	-196.73	-115.59	-351.86	36.78
	-211.46	-34.40	-163.94	-97.11	-293.22	28.30
	-84.58	-16.26	-65.58	-40.09	-117.29	7.57
	15.01	126.88	55.45	98.37	-25.43	175.93
	59.42	422.92	189.52	327.89	-70.69	586.43
1.10	65.51	400.26	183.58	309.55	-52.57	555.14
	22.47	120.08	56.48	92.86	-11.55	166.54
	-80.05	-8.72	-61.91	-34.53	-111.03	17.08
	-200.13	-28.06	-154.77	-89.45	-277.57	33.32
	-240.15	-35.55	-185.73	-108.27	-333.08	37.17
	-240.15	-35.55	-185.73	-108.27	-333.08	37.17
	-200.13	-31.19	-154.77	-91.01	-277.57	28.63
	-80.05	-14.98	-61.91	-37.66	-111.03	7.70
	13.08	120.08	51.79	92.86	-25.62	166.54
	52.99	400.26	177.33	309.55	-71.34	555.14

1.15	63.21	383.13	176.02	296.37	-49.59	531.38
	21.78	114.94	54.21	88.91	-10.66	159.41
	-76.63	-8.26	-59.27	-33.01	-106.28	16.49
	-191.57	-26.91	-148.18	-85.66	-265.69	31.84
	-229.88	-34.17	-177.82	-103.73	-318.83	35.39
	-229.88	-34.17	-177.82	-103.73	-318.83	35.39
	-191.57	-30.04	-148.18	-87.23	-265.69	27.14
	-76.63	-14.52	-59.27	-36.14	-106.28	7.10
	12.39	114.94	49.52	88.91	-24.73	159.41
	50.70	383.13	169.76	296.37	-68.36	531.38
1.20	59.48	365.81	167.46	282.66	-48.49	507.40
	20.66	109.74	51.64	84.80	-10.33	152.22
	-73.16	-7.52	-56.53	-31.30	-101.48	16.27
	-182.91	-25.05	-141.33	-81.38	-253.70	31.29
	-219.49	-31.93	-169.60	-98.60	-304.44	34.73
	-219.49	-31.93	-169.60	-98.60	-304.44	34.73
	-182.91	-28.18	-141.33	-82.95	-253.70	26.59
	-73.16	-13.77	-56.53	-34.43	-101.48	6.88
	11.27	109.74	46.95	84.80	-24.40	152.22
	46.97	365.81	161.20	282.66	-67.26	507.40
1.25	55.87	349.70	159.41	269.88	-47.66	485.11
	19.58	104.91	49.23	80.96	-10.07	145.53
	-69.94	-6.80	-53.98	-29.69	-97.02	16.10
	-174.85	-23.24	-134.94	-77.36	-242.56	30.87
	-209.82	-29.77	-161.93	-93.77	-291.07	34.22
	-209.82	-29.77	-161.93	-93.77	-291.07	34.22
	-174.85	-26.37	-134.94	-78.92	-242.56	26.17
	-69.94	-13.05	-53.98	-32.82	-97.02	6.72
	10.19	104.91	44.54	80.96	-24.15	145.53
	43.36	349.70	153.15	269.88	-66.43	485.11
1.30	52.22	334.50	151.64	257.75	-47.21	464.09
	18.48	100.35	46.90	77.32	-9.94	139.23
	-66.90	-6.06	-51.55	-28.14	-92.82	16.01
	-167.25	-21.42	-128.87	-73.48	-232.05	30.65
	-200.70	-27.58	-154.65	-89.11	-278.46	33.96
	-200.70	-27.58	-154.65	-89.11	-278.46	33.96
	-167.25	-24.54	-128.87	-75.04	-232.05	25.95
	-66.90	-12.32	-51.55	-31.27	-92.82	6.63
	9.10	100.35	42.21	77.32	-24.02	139.23
	39.70	334.50	145.39	257.75	-65.98	464.09
1.35	50.67	322.27	146.30	248.36	-44.96	447.12
	18.02	96.68	45.30	74.51	-9.26	134.13
	-64.45	-5.75	-49.67	-27.07	-89.42	15.56
	-161.14	-20.64	-124.18	-70.80	-223.56	29.52
	-193.36	-26.65	-149.01	-85.90	-268.27	32.61

	-193.36	-26.65	-149.01	-85.90	-268.27	32.61
	-161.14	-23.77	-124.18	-72.37	-223.56	24.83
	-64.45	-12.01	-49.67	-30.20	-89.42	6.18
	8.63	96.68	40.61	74.51	-23.34	134.13
	38.16	322.27	140.04	248.36	-63.73	447.12
1.40	49.32	311.00	141.43	239.73	-42.78	431.47
	17.61	93.30	43.84	71.92	-8.61	129.44
	-62.20	-5.48	-47.95	-26.10	-86.29	15.13
	-155.50	-19.97	-119.86	-68.37	-215.73	28.43
	-186.60	-25.84	-143.84	-82.98	-258.88	31.30
	-186.60	-25.84	-143.84	-82.98	-258.88	31.30
	-155.50	-23.10	-119.86	-69.93	-215.73	23.74
	-62.20	-11.74	-47.95	-29.22	-86.29	5.74
	8.23	93.30	39.14	71.92	-22.69	129.44
	36.81	311.00	135.17	239.73	-61.55	431.47
1.45	48.07	300.51	136.89	231.69	-40.75	416.91
	17.24	90.15	42.47	69.51	-8.00	125.07
	-60.10	-5.23	-46.34	-25.19	-83.38	14.72
	-150.25	-19.34	-115.85	-66.10	-208.45	27.41
	-180.30	-25.09	-139.02	-80.26	-250.14	30.08
	-180.30	-25.09	-139.02	-80.26	-250.14	30.08
	-150.25	-22.47	-115.85	-67.66	-208.45	22.72
	-60.10	-11.49	-46.34	-28.32	-83.38	5.33
	7.85	90.15	37.78	69.51	-22.08	125.07
	35.56	300.51	130.63	231.69	-59.52	416.91
1.50	45.93	289.75	131.69	223.22	-39.82	402.00
	16.59	86.92	40.91	66.97	-7.72	120.60
	-57.95	-4.81	-44.64	-24.15	-80.40	14.53
	-144.87	-18.27	-111.61	-63.50	-201.00	26.95
	-173.85	-23.80	-133.93	-77.13	-241.20	29.53
	-173.85	-23.80	-133.93	-77.13	-241.20	29.53
	-144.87	-21.40	-111.61	-65.06	-201.00	22.26
	-57.95	-11.06	-44.64	-27.28	-80.40	5.15
	7.21	86.92	36.22	66.97	-21.80	120.60
	33.42	289.75	125.43	223.22	-58.59	402.00
1.55	43.19	278.94	126.08	214.56	-39.70	387.06
	15.77	83.68	39.23	64.37	-7.69	116.12
	-55.79	-4.26	-42.91	-23.03	-77.41	14.51
	-139.47	-16.90	-107.28	-60.69	-193.53	26.89
	-167.36	-22.16	-128.74	-73.77	-232.24	29.45
	-167.36	-22.16	-128.74	-73.77	-232.24	29.45
	-139.47	-20.03	-107.28	-62.26	-193.53	22.20
	-55.79	-10.51	-42.91	-26.15	-77.41	5.12
	6.39	83.68	34.54	64.37	-21.76	116.12
	30.67	278.94	119.82	214.56	-58.47	387.06

1.60	42.25	270.43	122.45	208.07	-37.95	375.25
	15.49	81.13	38.14	62.42	-7.16	112.57
	-54.09	-4.07	-41.61	-22.30	-75.05	14.16
	-135.22	-16.43	-104.03	-58.88	-187.62	26.02
	-162.26	-21.59	-124.84	-71.59	-225.15	28.40
	-162.26	-21.59	-124.84	-71.59	-225.15	28.40
	-135.22	-19.56	-104.03	-60.44	-187.62	21.32
	-54.09	-10.33	-41.61	-25.43	-75.05	4.78
	6.10	81.13	33.45	62.42	-21.24	112.57
	29.73	270.43	116.19	208.07	-56.72	375.25
1.65	40.46	261.54	118.13	201.07	-37.22	362.94
	14.95	78.46	36.85	60.32	-6.94	108.88
	-52.31	-3.71	-40.21	-21.44	-72.59	14.01
	-130.77	-15.54	-100.53	-56.72	-181.47	25.65
	-156.92	-20.52	-120.64	-69.00	-217.76	27.96
	-156.92	-20.52	-120.64	-69.00	-217.76	27.96
	-130.77	-18.66	-100.53	-58.28	-181.47	20.95
	-52.31	-9.97	-40.21	-24.56	-72.59	4.63
	5.57	78.46	32.15	60.32	-21.02	108.88
	27.94	261.54	111.88	201.07	-55.99	362.94
1.70	39.65	254.04	114.95	195.35	-35.65	352.53
	14.71	76.21	35.89	58.60	-6.47	105.76
	-50.81	-3.55	-39.07	-20.80	-70.51	13.70
	-127.02	-15.13	-97.67	-55.13	-176.26	24.86
	-152.43	-20.04	-117.21	-67.09	-211.52	27.02
	-152.43	-20.04	-117.21	-67.09	-211.52	27.02
	-127.02	-18.26	-97.67	-56.69	-176.26	20.17
	-50.81	-9.81	-39.07	-23.93	-70.51	4.31
	5.33	76.21	31.20	58.60	-20.55	105.76
	27.14	254.04	108.69	195.35	-54.42	352.53
1.75	38.89	246.98	111.94	189.96	-34.17	342.72
	14.48	74.09	34.99	56.99	-6.03	102.81
	-49.40	-3.40	-37.99	-20.20	-68.54	13.40
	-123.49	-14.75	-94.98	-53.63	-171.36	24.12
	-148.19	-19.58	-113.98	-65.29	-205.63	26.13
	-148.19	-19.58	-113.98	-65.29	-205.63	26.13
	-123.49	-17.88	-94.98	-55.19	-171.36	19.43
	-49.40	-9.65	-37.99	-23.33	-68.54	4.02
	5.10	74.09	30.30	56.99	-20.11	102.81
	26.37	246.98	105.69	189.96	-52.94	342.72
1.80	38.17	240.31	109.11	184.87	-32.77	333.45
	14.27	72.09	34.14	55.46	-5.61	100.04
	-48.06	-3.25	-36.97	-19.63	-66.69	13.12
	-120.15	-14.39	-92.44	-52.21	-166.73	23.42
	-144.18	-19.15	-110.92	-63.59	-200.07	25.29

	-144.18	-19.15	-110.92	-63.59	-200.07	25.29
	-120.15	-17.52	-92.44	-53.77	-166.73	18.73
	-48.06	-9.51	-36.97	-22.76	-66.69	3.74
	4.88	72.09	29.45	55.46	-19.69	100.04
	25.66	240.31	102.85	184.87	-51.54	333.45
1.85	36.09	232.59	105.02	178.65	-32.85	322.79
	13.64	69.78	32.92	53.60	-5.63	96.84
	-46.52	-2.84	-35.73	-18.82	-64.56	13.14
	-116.29	-13.35	-89.33	-50.17	-161.39	23.47
	-139.55	-17.90	-107.19	-61.14	-193.67	25.34
	-139.55	-17.90	-107.19	-61.14	-193.67	25.34
	-116.29	-16.48	-89.33	-51.73	-161.39	18.77
	-46.52	-9.09	-35.73	-21.94	-64.56	3.76
	4.26	69.78	28.22	53.60	-19.71	96.84
	23.57	232.59	98.77	178.65	-51.62	322.79
1.90	35.48	226.65	102.53	174.13	-31.56	314.54
	13.46	68.00	32.17	52.24	-5.24	94.36
	-45.33	-2.72	-34.83	-18.32	-62.91	12.88
	-113.33	-13.05	-87.07	-48.92	-157.27	22.82
	-135.99	-17.54	-104.48	-59.64	-188.72	24.57
	-135.99	-17.54	-104.48	-59.64	-188.72	24.57
	-113.33	-16.18	-87.07	-50.48	-157.27	18.13
	-45.33	-8.97	-34.83	-21.44	-62.91	3.50
	4.08	68.00	27.47	52.24	-19.32	94.36
	22.97	226.65	96.27	174.13	-50.33	314.54
1.95	34.91	221.02	100.16	169.85	-30.33	306.72
	13.29	66.31	31.45	50.95	-4.88	92.01
	-44.20	-2.60	-33.97	-17.84	-61.34	12.64
	-110.51	-12.76	-84.92	-47.73	-153.36	22.20
	-132.61	-17.19	-101.91	-58.22	-184.03	23.83
	-132.61	-17.19	-101.91	-58.22	-184.03	23.83
	-110.51	-15.89	-84.92	-49.30	-153.36	17.51
	-44.20	-8.86	-33.97	-20.97	-61.34	3.25
	3.90	66.31	26.76	50.95	-18.95	92.01
	22.40	221.02	93.90	169.85	-49.10	306.72
2.00	34.31	215.60	97.84	165.71	-29.23	299.20
	13.11	64.68	30.76	49.71	-4.55	89.76
	-43.12	-2.48	-33.14	-17.38	-59.84	12.42
	-107.80	-12.46	-82.86	-46.57	-149.60	21.65
	-129.36	-16.83	-99.43	-56.83	-179.52	23.17
	-129.36	-16.83	-99.43	-56.83	-179.52	23.17
	-107.80	-15.59	-82.86	-48.14	-149.60	16.96
	-43.12	-8.74	-33.14	-20.51	-59.84	3.03
	3.72	64.68	26.07	49.71	-18.62	89.76
	21.79	215.60	91.58	165.71	-48.00	299.20

2.05	33.79	210.52	95.70	161.84	-28.11	292.13
	12.95	63.15	30.12	48.55	-4.21	87.64
	-42.10	-2.38	-32.37	-16.95	-58.43	12.19
	-105.26	-12.20	-80.92	-45.50	-146.07	21.10
	-126.31	-16.52	-97.11	-55.54	-175.28	22.50
	-126.31	-16.52	-97.11	-55.54	-175.28	22.50
	-105.26	-15.33	-80.92	-47.07	-146.07	16.40
	-42.10	-8.64	-32.37	-20.08	-58.43	2.81
	3.57	63.15	25.43	48.55	-18.29	87.64
	21.28	210.52	89.44	161.84	-46.88	292.13
2.10	33.31	205.67	93.67	158.16	-27.05	285.40
	12.81	61.70	29.51	47.45	-3.89	85.62
	-41.13	-2.28	-31.63	-16.54	-57.08	11.98
	-102.84	-11.96	-79.08	-44.49	-142.70	20.56
	-123.40	-16.23	-94.89	-54.32	-171.24	21.86
	-123.40	-16.23	-94.89	-54.32	-171.24	21.86
	-102.84	-15.09	-79.08	-46.05	-142.70	15.87
	-41.13	-8.54	-31.63	-19.67	-57.08	2.60
	3.42	61.70	24.82	47.45	-17.97	85.62
	20.79	205.67	87.41	158.16	-45.82	285.40
2.15	32.74	200.95	91.63	154.54	-26.14	278.86
	12.64	60.29	28.90	46.36	-3.62	83.66
	-40.19	-2.17	-30.91	-16.14	-55.77	11.80
	-100.48	-11.68	-77.27	-43.47	-139.43	20.11
	-120.57	-15.89	-92.73	-53.10	-167.31	21.31
	-120.57	-15.89	-92.73	-53.10	-167.31	21.31
	-100.48	-14.81	-77.27	-45.03	-139.43	15.42
	-40.19	-8.43	-30.91	-19.26	-55.77	2.41
	3.25	60.29	24.20	46.36	-17.70	83.66
	20.23	200.95	85.37	154.54	-44.91	278.86
2.20	32.30	196.55	89.78	151.20	-25.17	272.74
	12.51	58.97	28.34	45.36	-3.33	81.82
	-39.31	-2.08	-30.24	-15.77	-54.55	11.60
	-98.28	-11.46	-75.60	-42.54	-136.37	19.62
	-117.93	-15.63	-90.72	-51.99	-163.64	20.73
	-117.93	-15.63	-90.72	-51.99	-163.64	20.73
	-98.28	-14.59	-75.60	-44.11	-136.37	14.93
	-39.31	-8.34	-30.24	-18.89	-54.55	2.22
	3.12	58.97	23.65	45.36	-17.40	81.82
	19.79	196.55	83.52	151.20	-43.94	272.74
2.25	31.89	192.34	88.01	148.00	-24.24	266.89
	12.38	57.70	27.81	44.40	-3.05	80.07
	-38.47	-2.00	-29.60	-15.41	-53.38	11.42
	-96.17	-11.25	-74.00	-41.66	-133.45	19.16
	-115.41	-15.38	-88.80	-50.93	-160.14	20.18

	-115.41	-15.38	-88.80	-50.93	-160.14	20.18
	-96.17	-14.38	-74.00	-43.22	-133.45	14.47
	-38.47	-8.25	-29.60	-18.54	-53.38	2.03
	3.00	57.70	23.12	44.40	-17.13	80.07
	19.37	192.34	81.76	148.00	-43.01	266.89
2.30	29.79	186.62	84.63	143.24	-25.05	259.02
	11.75	55.99	26.80	42.97	-3.29	77.71
	-37.32	-1.58	-28.65	-14.74	-51.80	11.58
	-93.31	-10.20	-71.62	-39.97	-129.51	19.56
	-111.97	-14.12	-85.95	-48.90	-155.41	20.66
	-111.97	-14.12	-85.95	-48.90	-155.41	20.66
	-93.31	-13.33	-71.62	-41.53	-129.51	14.87
	-37.32	-7.84	-28.65	-17.86	-51.80	2.19
	2.37	55.99	22.10	42.97	-17.37	77.71
	17.28	186.62	78.37	143.24	-43.82	259.02
2.35	29.44	182.80	83.05	140.34	-24.16	253.71
	11.65	54.84	26.32	42.10	-3.03	76.11
	-36.56	-1.51	-28.07	-14.42	-50.74	11.40
	-91.40	-10.03	-70.17	-39.18	-126.85	19.12
	-109.68	-13.91	-84.21	-47.95	-152.23	20.13
	-109.68	-13.91	-84.21	-47.95	-152.23	20.13
	-91.40	-13.16	-70.17	-40.74	-126.85	14.43
	-36.56	-7.77	-28.07	-17.55	-50.74	2.02
	2.26	54.84	21.63	42.10	-17.10	76.11
	16.93	182.80	76.79	140.34	-42.93	253.71
2.40	29.11	179.14	81.53	137.57	-23.32	248.62
	11.55	53.74	25.87	41.27	-2.77	74.59
	-35.83	-1.44	-27.51	-14.12	-49.72	11.23
	-89.57	-9.86	-68.78	-38.42	-124.31	18.70
	-107.49	-13.71	-82.54	-47.04	-149.17	19.62
	-107.49	-13.71	-82.54	-47.04	-149.17	19.62
	-89.57	-12.99	-68.78	-39.98	-124.31	14.00
	-35.83	-7.70	-27.51	-17.24	-49.72	1.85
	2.16	53.74	21.17	41.27	-16.85	74.59
	16.59	179.14	75.27	137.57	-42.09	248.62
2.45	28.79	175.63	80.08	134.91	-22.50	243.75
	11.45	52.69	25.43	40.47	-2.53	73.12
	-35.13	-1.38	-26.98	-13.83	-48.75	11.07
	-87.82	-9.70	-67.45	-37.69	-121.87	18.29
	-105.38	-13.52	-80.94	-46.17	-146.25	19.13
	-105.38	-13.52	-80.94	-46.17	-146.25	19.13
	-87.82	-12.83	-67.45	-39.26	-121.87	13.60
	-35.13	-7.63	-26.98	-16.95	-48.75	1.69
	2.07	52.69	20.74	40.47	-16.61	73.12
	16.27	175.63	73.82	134.91	-41.27	243.75

2.50	28.48	172.27	78.68	132.35	-21.72	239.07
	11.36	51.68	25.01	39.71	-2.29	71.72
	-34.45	-1.32	-26.47	-13.55	-47.81	10.91
	-86.13	-9.55	-66.18	-36.99	-119.53	17.90
	-103.36	-13.33	-79.41	-45.33	-143.44	18.66
	-103.36	-13.33	-79.41	-45.33	-143.44	18.66
	-86.13	-12.68	-66.18	-38.56	-119.53	13.21
	-34.45	-7.57	-26.47	-16.67	-47.81	1.53
	1.97	51.68	20.32	39.71	-16.37	71.72
	15.97	172.27	72.42	132.35	-40.49	239.07
2.55	28.19	169.03	77.34	129.90	-20.97	234.57
	11.27	50.71	24.61	38.97	-2.07	70.37
	-33.81	-1.26	-25.98	-13.28	-46.91	10.76
	-84.51	-9.40	-64.95	-36.32	-117.29	17.52
	-101.42	-13.16	-77.94	-44.53	-140.74	18.21
	-101.42	-13.16	-77.94	-44.53	-140.74	18.21
	-84.51	-12.53	-64.95	-37.89	-117.29	12.83
	-33.81	-7.51	-25.98	-16.41	-46.91	1.38
	1.89	50.71	19.92	38.97	-16.15	70.37
	15.67	169.03	71.09	129.90	-39.74	234.57
2.60	27.29	165.31	75.44	126.93	-20.86	229.42
	11.00	49.59	24.04	38.08	-2.03	68.83
	-33.06	-1.08	-25.39	-12.90	-45.88	10.74
	-82.65	-8.95	-63.46	-35.37	-114.71	17.47
	-99.18	-12.62	-76.16	-43.39	-137.65	18.15
	-99.18	-12.62	-76.16	-43.39	-137.65	18.15
	-82.65	-12.08	-63.46	-36.94	-114.71	12.78
	-33.06	-7.34	-25.39	-16.03	-45.88	1.36
	1.62	49.59	19.35	38.08	-16.11	68.83
	14.78	165.31	69.19	126.93	-39.63	229.42
2.65	27.03	162.32	74.21	124.67	-20.16	225.27
	10.92	48.70	23.67	37.40	-1.82	67.58
	-32.46	-1.03	-24.93	-12.65	-45.05	10.60
	-81.16	-8.82	-62.33	-34.76	-112.64	17.12
	-97.39	-12.46	-74.80	-42.65	-135.16	17.72
	-97.39	-12.46	-74.80	-42.65	-135.16	17.72
	-81.16	-11.95	-62.33	-36.32	-112.64	12.42
	-32.46	-7.28	-24.93	-15.78	-45.05	1.22
	1.54	48.70	18.98	37.40	-15.90	67.58
	14.51	162.32	67.95	124.67	-38.93	225.27
2.70	26.77	159.45	73.02	122.49	-19.48	221.28
	10.85	47.83	23.32	36.75	-1.62	66.38
	-31.89	-0.98	-24.50	-12.42	-44.26	10.46
	-79.72	-8.69	-61.24	-34.17	-110.64	16.78
	-95.67	-12.31	-73.49	-41.94	-132.77	17.32

	-95.67	-12.31	-73.49	-41.94	-132.77	17.32
	-79.72	-11.82	-61.24	-35.73	-110.64	12.09
	-31.89	-7.23	-24.50	-15.54	-44.26	1.08
	1.46	47.83	18.62	36.75	-15.70	66.38
	14.26	159.45	66.77	122.49	-38.25	221.28
2.75	26.37	156.52	71.72	120.23	-18.98	217.21
	10.73	46.96	22.93	36.07	-1.47	65.16
	-31.30	-0.89	-24.05	-12.16	-43.44	10.37
	-78.26	-8.49	-60.12	-33.52	-108.61	16.53
	-93.91	-12.07	-72.14	-41.16	-130.33	17.02
	-93.91	-12.07	-72.14	-41.16	-130.33	17.02
	-78.26	-11.62	-60.12	-35.08	-108.61	11.84
	-31.30	-7.15	-24.05	-15.28	-43.44	0.98
	1.34	46.96	18.23	36.07	-15.55	65.16
	13.86	156.52	65.47	120.23	-37.75	217.21
2.80	26.14	153.85	70.63	118.21	-18.35	213.51
	10.66	46.15	22.60	35.46	-1.28	64.05
	-30.77	-0.85	-23.64	-11.94	-42.70	10.24
	-76.92	-8.38	-59.11	-32.97	-106.75	16.21
	-92.31	-11.93	-70.93	-40.50	-128.10	16.64
	-92.31	-11.93	-70.93	-40.50	-128.10	16.64
	-76.92	-11.51	-59.11	-34.53	-106.75	11.52
	-30.77	-7.10	-23.64	-15.06	-42.70	0.85
	1.27	46.15	17.90	35.46	-15.36	64.05
	13.63	153.85	64.37	118.21	-37.12	213.51
2.85	25.92	151.28	69.57	116.26	-17.74	209.93
	10.59	45.38	22.28	34.88	-1.10	62.98
	-30.26	-0.80	-23.25	-11.72	-41.99	10.12
	-75.64	-8.27	-58.13	-32.44	-104.97	15.91
	-90.77	-11.80	-69.76	-39.86	-125.96	16.27
	-90.77	-11.80	-69.76	-39.86	-125.96	16.27
	-75.64	-11.39	-58.13	-34.00	-104.97	11.21
	-30.26	-7.06	-23.25	-14.85	-41.99	0.73
	1.21	45.38	17.59	34.88	-15.17	62.98
	13.40	151.28	63.31	116.26	-36.51	209.93
2.90	25.70	148.79	68.55	114.38	-17.14	206.48
	10.53	44.64	21.97	34.32	-0.92	61.94
	-29.76	-0.76	-22.88	-11.52	-41.30	10.00
	-74.40	-8.16	-57.19	-31.93	-103.24	15.61
	-89.27	-11.67	-68.63	-39.25	-123.89	15.92
	-89.27	-11.67	-68.63	-39.25	-123.89	15.92
	-74.40	-11.29	-57.19	-33.49	-103.24	10.92
	-29.76	-7.02	-22.88	-14.65	-41.30	0.61
	1.14	44.64	17.28	34.32	-15.00	61.94
	13.19	148.79	62.29	114.38	-35.91	206.48

2.95	24.76	145.66	66.82	111.83	-17.31	202.15
	10.24	43.70	21.46	33.55	-0.97	60.65
	-29.13	-0.57	-22.37	-11.18	-40.43	10.03
	-72.83	-7.69	-55.92	-31.07	-101.08	15.69
	-87.39	-11.10	-67.10	-38.22	-121.29	16.02
	-87.39	-11.10	-67.10	-38.22	-121.29	16.02
	-72.83	-10.82	-55.92	-32.63	-101.08	11.00
	-29.13	-6.83	-22.37	-14.30	-40.43	0.65
	0.86	43.70	16.76	33.55	-15.05	60.65
	12.25	145.66	60.57	111.83	-36.08	202.15
3.00	24.57	143.35	65.88	110.09	-16.74	198.94
	10.19	43.00	21.17	33.03	-0.80	59.68
	-28.67	-0.53	-22.02	-10.99	-39.79	9.92
	-71.67	-7.59	-55.04	-30.60	-99.47	15.41
	-86.01	-10.99	-66.05	-37.65	-119.37	15.68
	-86.01	-10.99	-66.05	-37.65	-119.37	15.68
	-71.67	-10.72	-55.04	-32.16	-99.47	10.72
	-28.67	-6.79	-22.02	-14.12	-39.79	0.53
	0.80	43.00	16.48	33.03	-14.88	59.68
	12.06	143.35	59.63	110.09	-35.51	198.94
3.05	24.39	141.12	64.97	108.40	-16.20	195.84
	10.13	42.34	20.90	32.52	-0.64	58.75
	-28.22	-0.50	-21.68	-10.80	-39.17	9.81
	-70.56	-7.50	-54.20	-30.14	-97.92	15.14
	-84.67	-10.88	-65.04	-37.11	-117.51	15.35
	-84.67	-10.88	-65.04	-37.11	-117.51	15.35
	-70.56	-10.63	-54.20	-31.70	-97.92	10.44
	-28.22	-6.75	-21.68	-13.93	-39.17	0.42
	0.75	42.34	16.21	32.52	-14.71	58.75
	11.88	141.12	58.72	108.40	-34.97	195.84
3.10	24.21	138.96	64.09	106.77	-15.67	192.84
	10.08	41.69	20.64	32.03	-0.48	57.85
	-27.79	-0.46	-21.35	-10.63	-38.57	9.70
	-69.48	-7.41	-53.39	-29.70	-96.42	14.87
	-83.38	-10.77	-64.06	-36.58	-115.71	15.03
	-83.38	-10.77	-64.06	-36.58	-115.71	15.03
	-69.48	-10.54	-53.39	-31.26	-96.42	10.18
	-27.79	-6.72	-21.35	-13.76	-38.57	0.32
	0.69	41.69	15.94	32.03	-14.55	57.85
	11.70	138.96	57.84	106.77	-34.44	192.84
3.15	24.05	136.87	63.24	105.19	-15.15	189.94
	10.03	41.06	20.38	31.56	-0.32	56.98
	-27.37	-0.43	-21.04	-10.46	-37.99	9.60
	-68.43	-7.33	-52.60	-29.27	-94.97	14.61
	-82.12	-10.67	-63.12	-36.07	-113.96	14.72

	-82.12	-10.67	-63.12	-36.07	-113.96	14.72
	-68.43	-10.46	-52.60	-30.84	-94.97	9.92
	-27.37	-6.69	-21.04	-13.59	-37.99	0.21
	0.64	41.06	15.69	31.56	-14.40	56.98
	11.53	136.87	56.99	105.19	-33.92	189.94
3.20	23.88	134.85	62.42	103.66	-14.65	187.13
	9.98	40.45	20.13	31.10	-0.17	56.14
	-26.97	-0.40	-20.73	-10.29	-37.43	9.50
	-67.42	-7.25	-51.83	-28.86	-93.56	14.37
	-80.91	-10.58	-62.20	-35.57	-112.28	14.42
	-80.91	-10.58	-62.20	-35.57	-112.28	14.42
	-67.42	-10.38	-51.83	-30.43	-93.56	9.67
	-26.97	-6.65	-20.73	-13.42	-37.43	0.12
	0.60	40.45	15.44	31.10	-14.25	56.14
	11.37	134.85	56.16	103.66	-33.42	187.13
3.25	23.72	132.88	61.62	102.18	-14.17	184.40
	9.93	39.87	19.89	30.65	-0.03	55.32
	-26.58	-0.37	-20.44	-10.13	-36.88	9.40
	-66.44	-7.17	-51.09	-28.46	-92.20	14.12
	-79.73	-10.48	-61.31	-35.09	-110.64	14.13
	-79.73	-10.48	-61.31	-35.09	-110.64	14.13
	-66.44	-10.30	-51.09	-30.03	-92.20	9.43
	-26.58	-6.62	-20.44	-13.26	-36.88	0.02
	0.55	39.87	15.20	30.65	-14.11	55.32
	11.21	132.88	55.36	102.18	-32.94	184.40
3.30	23.57	130.98	60.84	100.75	-13.70	181.76
	9.89	39.29	19.66	30.22	0.11	54.53
	-26.20	-0.33	-20.15	-9.98	-36.35	9.31
	-65.49	-7.09	-50.37	-28.08	-90.88	13.89
	-78.59	-10.39	-60.45	-34.63	-109.05	13.85
	-78.59	-10.39	-60.45	-34.63	-109.05	13.85
	-65.49	-10.22	-50.37	-29.64	-90.88	9.20
	-26.20	-6.59	-20.15	-13.11	-36.35	-0.08
	0.50	39.29	14.97	30.22	-13.96	54.53
	11.06	130.98	54.59	100.75	-32.47	181.76
3.35	23.42	129.14	60.09	99.35	-13.25	179.19
	9.84	38.74	19.44	29.81	0.25	53.76
	-25.83	-0.30	-19.87	-9.83	-35.84	9.22
	-64.57	-7.02	-49.68	-27.70	-89.60	13.66
	-77.48	-10.30	-59.61	-34.18	-107.52	13.58
	-77.48	-10.30	-59.61	-34.18	-107.52	13.58
	-64.57	-10.15	-49.68	-29.26	-89.60	8.97
	-25.83	-6.56	-19.87	-12.96	-35.84	-0.17
	0.46	38.74	14.74	29.81	-13.83	53.76
	10.91	129.14	53.84	99.35	-32.02	179.19

3.40	23.28	127.35	59.36	98.00	-12.80	176.71
	9.80	38.20	19.22	29.40	0.38	53.01
	-25.47	-0.28	-19.60	-9.68	-35.34	9.13
	-63.67	-6.95	-49.00	-27.34	-88.35	13.44
	-76.41	-10.21	-58.80	-33.74	-106.02	13.31
	-76.41	-10.21	-58.80	-33.74	-106.02	13.31
	-63.67	-10.08	-49.00	-28.90	-88.35	8.75
	-25.47	-6.53	-19.60	-12.81	-35.34	-0.25
	0.41	38.20	14.52	29.40	-13.70	53.01
	10.77	127.35	53.11	98.00	-31.57	176.71
3.45	23.14	125.61	58.66	96.69	-12.38	174.29
	9.76	37.68	19.00	29.01	0.51	52.29
	-25.12	-0.25	-19.34	-9.54	-34.86	9.04
	-62.81	-6.88	-48.34	-26.98	-87.15	13.23
	-75.37	-10.13	-58.01	-33.32	-104.57	13.06
	-75.37	-10.13	-58.01	-33.32	-104.57	13.06
	-62.81	-10.01	-48.34	-28.55	-87.15	8.53
	-25.12	-6.51	-19.34	-12.67	-34.86	-0.34
	0.37	37.68	14.31	29.01	-13.57	52.29
	10.63	125.61	52.40	96.69	-31.15	174.29
3.50	23.01	123.92	57.97	95.41	-11.96	171.94
	9.72	37.18	18.80	28.62	0.64	51.58
	-24.78	-0.22	-19.08	-9.40	-34.39	8.96
	-61.96	-6.81	-47.71	-26.64	-85.97	13.02
	-74.35	-10.05	-57.25	-32.91	-103.17	12.81
	-74.35	-10.05	-57.25	-32.91	-103.17	12.81
	-61.96	-9.94	-47.71	-28.20	-85.97	8.33
	-24.78	-6.48	-19.08	-12.53	-34.39	-0.42
	0.33	37.18	14.11	28.62	-13.44	51.58
	10.49	123.92	51.71	95.41	-30.73	171.94
3.55	22.88	122.28	57.30	94.18	-11.55	169.66
	9.68	36.68	18.60	28.25	0.76	50.90
	-24.46	-0.20	-18.84	-9.27	-33.93	8.88
	-61.14	-6.75	-47.09	-26.31	-84.83	12.81
	-73.37	-9.97	-56.51	-32.51	-101.80	12.56
	-73.37	-9.97	-56.51	-32.51	-101.80	12.56
	-61.14	-9.87	-47.09	-27.87	-84.83	8.12
	-24.46	-6.45	-18.84	-12.40	-33.93	-0.51
	0.29	36.68	13.91	28.25	-13.32	50.90
	10.36	122.28	51.05	94.18	-30.32	169.66
3.60	22.75	120.69	56.66	92.97	-11.16	167.45
	9.64	36.21	18.40	27.89	0.88	50.23
	-24.14	-0.17	-18.59	-9.14	-33.49	8.80
	-60.34	-6.68	-46.49	-25.98	-83.72	12.62
	-72.41	-9.90	-55.78	-32.12	-100.47	12.33

	-72.41	-9.90	-55.78	-32.12	-100.47	12.33
	-60.34	-9.81	-46.49	-27.55	-83.72	7.92
	-24.14	-6.43	-18.59	-12.27	-33.49	-0.58
	0.26	36.21	13.71	27.89	-13.20	50.23
	10.24	120.69	50.40	92.97	-29.93	167.45
3.65	22.63	119.14	56.03	91.80	-10.77	165.29
	9.60	35.74	18.22	27.54	0.99	49.59
	-23.83	-0.15	-18.36	-9.02	-33.06	8.72
	-59.57	-6.62	-45.90	-25.67	-82.65	12.42
	-71.48	-9.82	-55.08	-31.74	-99.18	12.09
	-71.48	-9.82	-55.08	-31.74	-99.18	12.09
	-59.57	-9.75	-45.90	-27.23	-82.65	7.73
	-23.83	-6.40	-18.36	-12.14	-33.06	-0.66
	0.22	35.74	13.52	27.54	-13.09	49.59
	10.11	119.14	49.77	91.80	-29.54	165.29
3.70	22.51	117.63	55.41	90.66	-10.40	163.20
	9.57	35.29	18.03	27.20	1.10	48.96
	-23.53	-0.12	-18.13	-8.89	-32.64	8.65
	-58.82	-6.56	-45.33	-25.36	-81.60	12.24
	-70.58	-9.75	-54.40	-31.37	-97.92	11.87
	-70.58	-9.75	-54.40	-31.37	-97.92	11.87
	-58.82	-9.69	-45.33	-26.92	-81.60	7.55
	-23.53	-6.38	-18.13	-12.02	-32.64	-0.74
	0.18	35.29	13.34	27.20	-12.97	48.96
	9.99	117.63	49.16	90.66	-29.17	163.20
3.75	22.34	116.12	54.77	89.51	-10.08	161.10
	9.52	34.83	17.84	26.85	1.20	48.33
	-23.22	-0.09	-17.90	-8.76	-32.22	8.59
	-58.06	-6.48	-44.75	-25.04	-80.55	12.08
	-69.67	-9.65	-53.70	-30.98	-96.66	11.68
	-69.67	-9.65	-53.70	-30.98	-96.66	11.68
	-58.06	-9.61	-44.75	-26.60	-80.55	7.39
	-23.22	-6.35	-17.90	-11.89	-32.22	-0.80
	0.13	34.83	13.15	26.85	-12.88	48.33
	9.83	116.12	48.51	89.51	-28.85	161.10
3.80	22.23	114.69	54.19	88.43	-9.72	159.11
	9.49	34.41	17.66	26.53	1.31	47.73
	-22.94	-0.07	-17.69	-8.65	-31.82	8.51
	-57.34	-6.42	-44.21	-24.75	-79.55	11.90
	-68.81	-9.59	-53.06	-30.64	-95.47	11.47
	-68.81	-9.59	-53.06	-30.64	-95.47	11.47
	-57.34	-9.55	-44.21	-26.31	-79.55	7.21
	-22.94	-6.32	-17.69	-11.78	-31.82	-0.87
	0.10	34.41	12.97	26.53	-12.77	47.73
	9.72	114.69	47.93	88.43	-28.49	159.11

3.85	22.12	113.30	53.62	87.38	-9.38	157.18
	9.45	33.99	17.50	26.21	1.41	47.15
	-22.66	-0.04	-17.48	-8.54	-31.44	8.45
	-56.65	-6.37	-43.69	-24.47	-78.59	11.73
	-67.98	-9.52	-52.43	-30.30	-94.31	11.26
	-67.98	-9.52	-52.43	-30.30	-94.31	11.26
	-56.65	-9.50	-43.69	-26.03	-78.59	7.04
	-22.66	-6.30	-17.48	-11.66	-31.44	-0.94
	0.07	33.99	12.80	26.21	-12.67	47.15
	9.61	113.30	47.37	87.38	-28.15	157.18
3.90	22.02	111.94	53.07	86.36	-9.04	155.29
	9.42	33.58	17.33	25.91	1.51	46.59
	-22.39	-0.02	-17.27	-8.43	-31.06	8.38
	-55.97	-6.32	-43.18	-24.19	-77.65	11.56
	-67.16	-9.46	-51.81	-29.97	-93.18	11.06
	-67.16	-9.46	-51.81	-29.97	-93.18	11.06
	-55.97	-9.44	-43.18	-25.76	-77.65	6.87
	-22.39	-6.28	-17.27	-11.55	-31.06	-1.01
	0.04	33.58	12.64	25.91	-12.57	46.59
	9.50	111.94	46.82	86.36	-27.81	155.29
3.95	21.91	110.62	52.54	85.36	-8.71	153.46
	9.39	33.19	17.17	25.61	1.61	46.04
	-22.12	0.00	-17.07	-8.32	-30.69	8.31
	-55.31	-6.26	-42.68	-23.92	-76.73	11.39
	-66.37	-9.39	-51.22	-29.65	-92.07	10.86
	-66.37	-9.39	-51.22	-29.65	-92.07	10.86
	-55.31	-9.39	-42.68	-25.49	-76.73	6.70
	-22.12	-6.26	-17.07	-11.45	-30.69	-1.07
	0.00	33.19	12.48	25.61	-12.47	46.04
	9.40	110.62	46.28	85.36	-27.48	153.46
4.00	21.81	109.33	52.02	84.39	-8.39	151.67
	9.36	32.80	17.01	25.32	1.71	45.50
	-21.87	0.02	-16.88	-8.21	-30.33	8.25
	-54.67	-6.21	-42.19	-23.66	-75.83	11.23
	-65.60	-9.33	-50.63	-29.33	-91.00	10.66
	-65.60	-9.33	-50.63	-29.33	-91.00	10.66
	-54.67	-9.34	-42.19	-25.23	-75.83	6.54
	-21.87	-6.24	-16.88	-11.34	-30.33	-1.14
	-0.03	32.80	12.32	25.32	-12.37	45.50
	9.30	109.33	45.76	84.39	-27.16	151.67
4.05	21.72	108.08	51.51	83.44	-8.08	149.92
	9.33	32.42	16.86	25.03	1.80	44.98
	-21.62	0.04	-16.69	-8.11	-29.98	8.18
	-54.04	-6.17	-41.72	-23.41	-74.96	11.08
	-64.85	-9.28	-50.06	-29.03	-89.95	10.48

	-64.85	-9.28	-50.06	-29.03	-89.95	10.48
	-54.04	-9.29	-41.72	-24.97	-74.96	6.38
	-21.62	-6.22	-16.69	-11.24	-29.98	-1.20
	-0.05	32.42	12.17	25.03	-12.28	44.98
	9.20	108.08	45.25	83.44	-26.85	149.92
4.10	21.62	106.85	51.01	82.52	-7.77	148.22
	9.30	32.06	16.71	24.75	1.89	44.47
	-21.37	0.06	-16.50	-8.01	-29.64	8.12
	-53.43	-6.12	-41.26	-23.16	-74.11	10.92
	-64.11	-9.22	-49.51	-28.73	-88.93	10.29
	-64.11	-9.22	-49.51	-28.73	-88.93	10.29
	-53.43	-9.25	-41.26	-24.72	-74.11	6.23
	-21.37	-6.20	-16.50	-11.14	-29.64	-1.26
	-0.08	32.06	12.02	24.75	-12.19	44.47
	9.11	106.85	44.75	82.52	-26.54	148.22
4.15	21.53	105.66	50.53	81.61	-7.47	146.56
	9.27	31.70	16.57	24.48	1.98	43.97
	-21.13	0.07	-16.32	-7.92	-29.31	8.06
	-52.83	-6.07	-40.81	-22.92	-73.28	10.77
	-63.39	-9.16	-48.97	-28.44	-87.93	10.11
	-63.39	-9.16	-48.97	-28.44	-87.93	10.11
	-52.83	-9.20	-40.81	-24.48	-73.28	6.08
	-21.13	-6.18	-16.32	-11.04	-29.31	-1.32
	-0.11	31.70	11.87	24.48	-12.10	43.97
	9.01	105.66	44.27	81.61	-26.24	146.56
4.20	21.44	104.49	50.05	80.73	-7.18	144.94
	9.25	31.35	16.42	24.22	2.07	43.48
	-20.90	0.09	-16.15	-7.82	-28.99	8.01
	-52.25	-6.03	-40.37	-22.68	-72.47	10.63
	-62.69	-9.11	-48.44	-28.15	-86.96	9.94
	-62.69	-9.11	-48.44	-28.15	-86.96	9.94
	-52.25	-9.15	-40.37	-24.24	-72.47	5.94
	-20.90	-6.16	-16.15	-10.95	-28.99	-1.38
	-0.14	31.35	11.73	24.22	-12.01	43.48
	8.92	104.49	43.80	80.73	-25.95	144.94
4.25	21.35	103.35	49.59	79.87	-6.89	143.35
	9.22	31.01	16.28	23.96	2.16	43.01
	-20.67	0.11	-15.97	-7.73	-28.67	7.95
	-51.68	-5.98	-39.94	-22.45	-71.68	10.49
	-62.01	-9.06	-47.92	-27.88	-86.01	9.77
	-62.01	-9.06	-47.92	-27.88	-86.01	9.77
	-51.68	-9.11	-39.94	-24.01	-71.68	5.79
	-20.67	-6.15	-15.97	-10.86	-28.67	-1.44
	-0.16	31.01	11.59	23.96	-11.92	43.01
	8.84	103.35	43.33	79.87	-25.66	143.35

4.30	21.26	102.24	49.14	79.04	-6.61	141.81
	9.19	30.67	16.15	23.71	2.24	42.54
	-20.45	0.13	-15.81	-7.64	-28.36	7.89
	-51.12	-5.94	-39.52	-22.22	-70.90	10.35
	-61.34	-9.00	-47.42	-27.61	-85.08	9.60
	-61.34	-9.00	-47.42	-27.61	-85.08	9.60
	-51.12	-9.07	-39.52	-23.79	-70.90	5.65
	-20.45	-6.13	-15.81	-10.77	-28.36	-1.49
	-0.19	30.67	11.46	23.71	-11.84	42.54
	8.75	102.24	42.88	79.04	-25.38	141.81
4.35	21.18	101.15	48.70	78.22	-6.34	140.30
	9.17	30.35	16.02	23.46	2.32	42.09
	-20.23	0.14	-15.64	-7.55	-28.06	7.84
	-50.58	-5.90	-39.11	-22.00	-70.15	10.21
	-60.69	-8.95	-46.93	-27.34	-84.18	9.44
	-60.69	-8.95	-46.93	-27.34	-84.18	9.44
	-50.58	-9.03	-39.11	-23.57	-70.15	5.52
	-20.23	-6.11	-15.64	-10.68	-28.06	-1.55
	-0.22	30.35	11.33	23.46	-11.76	42.09
	8.67	101.15	42.44	78.22	-25.11	140.30
4.40	21.10	100.09	48.27	77.41	-6.08	138.82
	9.14	30.03	15.89	23.22	2.40	41.65
	-20.02	0.16	-15.48	-7.46	-27.76	7.78
	-50.05	-5.86	-38.71	-21.79	-69.41	10.08
	-60.06	-8.90	-46.45	-27.09	-83.29	9.28
	-60.06	-8.90	-46.45	-27.09	-83.29	9.28
	-50.05	-8.98	-38.71	-23.35	-69.41	5.38
	-20.02	-6.10	-15.48	-10.59	-27.76	-1.60
	-0.24	30.03	11.20	23.22	-11.68	41.65
	8.58	100.09	42.01	77.41	-24.85	138.82
4.45	21.02	99.05	47.85	76.63	-5.81	137.38
	9.12	29.72	15.76	22.99	2.48	41.21
	-19.81	0.18	-15.33	-7.38	-27.48	7.73
	-49.53	-5.82	-38.32	-21.58	-68.69	9.95
	-59.43	-8.86	-45.98	-26.83	-82.43	9.12
	-59.43	-8.86	-45.98	-26.83	-82.43	9.12
	-49.53	-8.94	-38.32	-23.14	-68.69	5.25
	-19.81	-6.08	-15.33	-10.51	-27.48	-1.65
	-0.26	29.72	11.07	22.99	-11.60	41.21
	8.50	99.05	41.59	76.63	-24.58	137.38
4.50	20.94	98.04	47.44	75.87	-5.56	135.97
	9.10	29.41	15.64	22.76	2.56	40.79
	-19.61	0.19	-15.17	-7.30	-27.19	7.68
	-49.02	-5.78	-37.93	-21.37	-67.98	9.82
	-58.82	-8.81	-45.52	-26.59	-81.58	8.97

	-58.82	-8.81	-45.52	-26.59	-81.58	8.97
	-49.02	-8.91	-37.93	-22.94	-67.98	5.13
	-19.61	-6.06	-15.17	-10.43	-27.19	-1.70
	-0.29	29.41	10.95	22.76	-11.52	40.79
	8.43	98.04	41.18	75.87	-24.33	135.97

En la Tabla 6 se muestran las combinaciones de esfuerzos para el cordón superior en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 6. Combinación de esfuerzos del cordón superior - 10 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Mín (KN)	Máx(KN)	Mín (KN)	Máx(KN)	Mín (KN)	Máx(KN)
0.50	-0.78	0.00	-0.39	0.00	-1.17	0.00
	220.71	896.68	461.08	717.08	-19.66	1239.81
	392.98	1594.10	820.01	1274.80	-34.05	2204.10
	516.03	2092.26	1076.39	1673.18	-44.32	2892.88
	589.86	2391.15	1230.21	1912.21	-50.48	3306.15
	591.43	2391.15	1230.99	1912.21	-48.14	3306.15
	517.60	2092.26	1077.17	1673.18	-41.97	2892.88
	394.55	1594.10	820.79	1274.80	-31.70	2204.10
	222.27	896.68	461.87	717.08	-17.32	1239.81
	0.00	0.78	0.00	0.39	0.00	1.17
0.55	-0.78	0.00	-0.39	0.00	-1.17	0.00
	179.36	793.95	397.92	630.68	-39.20	1098.46
	319.47	1411.47	707.72	1121.20	-68.77	1952.81
	419.55	1852.56	929.00	1471.58	-89.90	2563.07
	479.60	2117.21	1061.77	1681.80	-102.57	2929.22
	481.16	2117.21	1062.55	1681.80	-100.22	2929.22
	421.12	1852.56	929.78	1471.58	-87.55	2563.07
	321.04	1411.47	708.50	1121.20	-66.42	1952.81
	180.93	793.95	398.70	630.68	-36.85	1098.46
	0.00	0.78	0.00	0.39	0.00	1.17
0.60	-0.78	0.00	-0.39	0.00	-1.17	0.00
	150.71	714.15	351.09	564.48	-49.67	988.50
	268.53	1269.60	624.46	1003.52	-87.39	1757.34
	352.69	1666.35	819.72	1317.11	-114.33	2306.51
	403.19	1904.40	936.88	1505.27	-130.50	2636.01
	404.76	1904.40	937.66	1505.27	-128.15	2636.01
	354.26	1666.35	820.50	1317.11	-111.98	2306.51
	270.10	1269.60	625.24	1003.52	-85.04	1757.34
	152.27	714.15	351.87	564.48	-47.32	988.50
	0.00	0.78	0.00	0.39	0.00	1.17
0.65	-0.78	0.00	-0.39	0.00	-1.17	0.00

	134.81	654.97	319.81	516.81	-50.18	906.74
	240.28	1164.40	568.85	918.78	-88.30	1611.98
	315.61	1528.27	746.74	1205.90	-115.52	2115.72
	360.80	1746.59	853.47	1378.17	-131.86	2417.97
	362.37	1746.59	854.25	1378.17	-129.51	2417.97
	317.17	1528.27	747.52	1205.90	-113.18	2115.72
	241.84	1164.40	569.63	918.78	-85.95	1611.98
	136.38	654.97	320.59	516.81	-47.83	906.74
	0.00	0.78	0.00	0.39	0.00	1.17
0.70	-0.78	0.00	-0.39	0.00	-1.17	0.00
	115.01	598.07	286.81	469.78	-56.80	828.31
	205.06	1063.23	510.20	835.16	-100.07	1472.55
	269.39	1395.49	669.76	1096.15	-130.97	1932.72
	307.99	1594.85	765.49	1252.74	-149.51	2208.82
	309.55	1594.85	766.27	1252.74	-147.17	2208.82
	270.96	1395.49	670.54	1096.15	-128.63	1932.72
	206.63	1063.23	510.98	835.16	-97.72	1472.55
	116.57	598.07	287.60	469.78	-54.45	828.31
	0.00	0.78	0.00	0.39	0.00	1.17
0.75	-0.78	0.00	-0.39	0.00	-1.17	0.00
	102.00	552.91	262.38	433.17	-58.38	765.95
	181.94	982.95	466.76	770.08	-102.88	1361.69
	239.04	1290.12	612.74	1010.73	-134.66	1787.21
	273.30	1474.42	700.33	1155.12	-153.73	2042.53
	274.87	1474.42	701.11	1155.12	-151.38	2042.53
	240.61	1290.12	613.52	1010.73	-132.31	1787.21
	183.50	982.95	467.54	770.08	-100.53	1361.69
	103.56	552.91	263.16	433.17	-56.03	765.95
	0.00	0.78	0.00	0.39	0.00	1.17
0.80	-0.78	0.00	-0.39	0.00	-1.17	0.00
	91.65	514.42	242.03	402.17	-58.73	712.78
	163.54	914.53	430.58	714.97	-103.50	1267.16
	214.89	1200.32	565.25	938.40	-135.48	1663.14
	245.70	1371.80	646.06	1072.45	-154.67	1900.73
	247.26	1371.80	646.84	1072.45	-152.32	1900.73
	216.45	1200.32	566.04	938.40	-133.13	1663.14
	165.10	914.53	431.36	714.97	-101.16	1267.16
	93.21	514.42	242.81	402.17	-56.39	712.78
	0.00	0.78	0.00	0.39	0.00	1.17
0.85	-0.78	0.00	-0.39	0.00	-1.17	0.00
	82.11	480.07	223.67	374.42	-59.44	665.32
	146.59	853.45	397.94	665.63	-104.77	1182.79
	192.64	1120.16	522.42	873.64	-137.14	1552.41
	220.27	1280.18	597.11	998.44	-156.56	1774.18
	221.84	1280.18	597.89	998.44	-154.22	1774.18

	194.21	1120.16	523.20	873.64	-134.79	1552.41	
	148.15	853.45	398.73	665.63	-102.42	1182.79	
	83.68	480.07	224.45	374.42	-57.10	665.32	
	0.00	0.78	0.00	0.39	0.00	1.17	
0.90	-0.78	0.00	-0.39	0.00	-1.17	0.00	
	73.41	449.30	207.13	349.52	-60.30	622.83	
	131.12	798.76	368.53	621.37	-106.29	1107.25	
	172.34	1048.37	483.82	815.55	-139.14	1453.26	
	197.07	1198.14	553.00	932.06	-158.85	1660.87	
	198.64	1198.14	553.78	932.06	-156.50	1660.87	
	173.91	1048.37	484.61	815.55	-136.79	1453.26	
	132.69	798.76	369.32	621.37	-103.94	1107.25	
	74.98	449.30	207.91	349.52	-57.95	622.83	
	0.00	0.78	0.00	0.39	0.00	1.17	
	0.95	-0.78	0.00	-0.39	0.00	-1.17	0.00
		69.60	425.74	196.30	331.22	-57.10	590.17
124.34		756.88	349.28	588.83	-100.60	1049.19	
163.44		993.40	458.55	772.84	-131.67	1377.06	
186.90		1135.32	524.11	883.24	-150.31	1573.78	
188.46		1135.32	524.89	883.24	-147.96	1573.78	
165.00		993.40	459.33	772.84	-129.32	1377.06	
125.90		756.88	350.06	588.83	-98.25	1049.19	
71.16		425.74	197.08	331.22	-54.75	590.17	
0.00		0.78	0.00	0.39	0.00	1.17	
1.00	-0.78	0.00	-0.39	0.00	-1.17	0.00	
	60.99	399.37	181.37	309.57	-59.39	553.79	
	109.04	709.99	322.75	550.34	-104.67	984.51	
	143.35	931.86	423.73	722.32	-137.02	1292.17	
	163.94	1064.98	484.31	825.51	-156.42	1476.77	
	165.51	1064.98	485.10	825.51	-154.08	1476.77	
	144.92	931.86	424.51	722.32	-134.67	1292.17	
	110.60	709.99	323.53	550.34	-102.33	984.51	
	62.55	399.37	182.16	309.57	-57.05	553.79	
	0.00	0.78	0.00	0.39	0.00	1.17	
1.05	-0.78	0.00	-0.39	0.00	-1.17	0.00	
	58.32	380.63	172.99	295.10	-56.34	527.79	
	104.30	676.67	307.85	524.62	-99.26	938.29	
	137.13	888.13	404.17	688.57	-129.91	1231.51	
	156.84	1015.00	461.97	786.93	-148.30	1407.44	
	158.40	1015.00	462.75	786.93	-145.95	1407.44	
	138.70	888.13	404.95	688.57	-127.56	1231.51	
	105.86	676.67	308.63	524.62	-96.91	938.29	
	59.89	380.63	173.78	295.10	-54.00	527.79	
	0.00	0.78	0.00	0.39	0.00	1.17	
1.10	-0.78	0.00	-0.39	0.00	-1.17	0.00	

	52.54	360.23	162.02	278.59	-56.93	499.62
	94.02	640.41	288.34	495.27	-100.30	888.22
	123.64	840.54	378.56	650.05	-131.28	1165.78
	141.42	960.61	432.70	742.91	-149.86	1332.33
	142.98	960.61	433.48	742.91	-147.51	1332.33
	125.21	840.54	379.35	650.05	-128.93	1165.78
	95.58	640.41	289.12	495.27	-97.95	888.22
	54.11	360.23	162.80	278.59	-54.58	499.62
	0.00	0.78	0.00	0.39	0.00	1.17
1.15	-0.78	0.00	-0.39	0.00	-1.17	0.00
	50.48	344.82	155.21	266.73	-54.25	478.24
	90.35	613.02	276.23	474.19	-95.54	850.21
	118.82	804.58	362.68	622.37	-125.03	1115.89
	135.91	919.52	414.54	711.28	-142.72	1275.31
	137.47	919.52	415.33	711.28	-140.38	1275.31
	120.39	804.58	363.46	622.37	-122.68	1115.89
	91.91	613.02	277.01	474.19	-93.19	850.21
	52.04	344.82	155.99	266.73	-51.91	478.24
	0.00	0.78	0.00	0.39	0.00	1.17
1.20	-0.78	0.00	-0.39	0.00	-1.17	0.00
	47.12	329.23	147.50	254.40	-53.26	456.66
	84.38	585.30	262.53	452.26	-93.78	811.85
	110.99	768.21	344.70	593.59	-122.72	1065.55
	126.96	877.95	394.00	678.39	-140.08	1217.77
	128.52	877.95	394.78	678.39	-137.74	1217.77
	112.55	768.21	345.48	593.59	-120.37	1065.55
	85.94	585.30	263.32	452.26	-91.43	811.85
	48.68	329.23	148.29	254.40	-50.92	456.66
	0.00	0.78	0.00	0.39	0.00	1.17
1.25	-0.78	0.00	-0.39	0.00	-1.17	0.00
	43.87	314.73	140.26	242.89	-52.51	436.60
	78.61	559.53	249.65	431.81	-92.44	776.18
	103.42	734.38	327.79	566.74	-120.96	1018.74
	118.30	839.29	374.68	647.71	-138.07	1164.27
	119.87	839.29	375.46	647.71	-135.73	1164.27
	104.98	734.38	328.57	566.74	-118.61	1018.74
	80.17	559.53	250.44	431.81	-90.09	776.18
	45.44	314.73	141.04	242.89	-50.16	436.60
	0.00	0.78	0.00	0.39	0.00	1.17
1.30	-0.78	0.00	-0.39	0.00	-1.17	0.00
	40.58	301.05	133.27	231.97	-52.11	417.68
	72.75	535.20	237.23	412.40	-91.73	742.55
	95.73	702.45	311.49	541.27	-120.03	974.59
	109.52	802.81	356.05	618.59	-137.01	1113.82
	111.08	802.81	356.83	618.59	-134.66	1113.82

	97.30	702.45	312.27	541.27	-117.68	974.59
	74.32	535.20	238.02	412.40	-89.38	742.55
	42.15	301.05	134.06	231.97	-49.77	417.68
	0.00	0.78	0.00	0.39	0.00	1.17
1.35	-0.78	0.00	-0.39	0.00	-1.17	0.00
	39.19	290.04	128.46	223.52	-50.08	402.40
	70.28	515.63	228.68	397.37	-88.13	715.38
	92.49	676.77	300.27	521.55	-115.30	938.94
	105.81	773.45	343.22	596.06	-131.60	1073.08
	107.37	773.45	344.00	596.06	-129.26	1073.08
	94.05	676.77	301.05	521.55	-112.95	938.94
	71.84	515.63	229.47	397.37	-85.78	715.38
	40.75	290.04	129.25	223.52	-47.74	402.40
	0.00	0.78	0.00	0.39	0.00	1.17
1.40	-0.78	0.00	-0.39	0.00	-1.17	0.00
	37.98	279.90	124.08	215.75	-48.12	388.32
	68.12	497.60	220.89	383.56	-84.64	690.35
	89.66	653.10	290.03	503.43	-110.72	906.09
	102.58	746.40	331.52	575.34	-126.37	1035.53
	104.14	746.40	332.31	575.34	-124.02	1035.53
	91.22	653.10	290.82	503.43	-108.37	906.09
	69.69	497.60	221.67	383.56	-82.29	690.35
	39.54	279.90	124.86	215.75	-45.78	388.32
	0.00	0.78	0.00	0.39	0.00	1.17
1.45	-0.78	0.00	-0.39	0.00	-1.17	0.00
	36.85	270.46	119.99	208.52	-46.29	375.22
	66.12	480.81	213.63	370.71	-81.39	667.05
	87.03	631.07	280.51	486.56	-106.45	875.50
	99.57	721.22	320.64	556.06	-121.49	1000.57
	101.14	721.22	321.42	556.06	-119.15	1000.57
	88.59	631.07	281.29	486.56	-104.11	875.50
	67.68	480.81	214.41	370.71	-79.04	667.05
	38.41	270.46	120.78	208.52	-43.95	375.22
	0.00	0.78	0.00	0.39	0.00	1.17
1.50	-0.78	0.00	-0.39	0.00	-1.17	0.00
	34.92	260.77	115.31	200.90	-45.46	361.80
	62.70	463.59	205.30	357.16	-79.91	643.20
	82.53	608.46	269.58	468.77	-104.51	844.20
	94.44	695.39	308.15	535.74	-119.27	964.80
	96.00	695.39	308.93	535.74	-116.93	964.80
	84.10	608.46	270.36	468.77	-102.16	844.20
	64.26	463.59	206.08	357.16	-77.56	643.20
	36.49	260.77	116.09	200.90	-43.11	361.80
	0.00	0.78	0.00	0.39	0.00	1.17
1.55	-0.78	0.00	-0.39	0.00	-1.17	0.00

	32.46	251.04	110.26	193.10	-45.35	348.35
	58.31	446.30	196.32	343.30	-79.71	619.29
	76.77	585.76	257.80	450.58	-104.25	812.82
	87.85	669.45	294.68	514.95	-118.98	928.94
	89.42	669.45	295.46	514.95	-116.63	928.94
	78.34	585.76	258.58	450.58	-101.90	812.82
	59.87	446.30	197.11	343.30	-77.36	619.29
	34.02	251.04	111.04	193.10	-43.00	348.35
	0.00	0.78	0.00	0.39	0.00	1.17
1.60	-0.78	0.00	-0.39	0.00	-1.17	0.00
	31.61	243.39	106.99	187.26	-43.78	337.72
	56.80	432.69	190.52	332.91	-76.91	600.40
	74.80	567.90	250.17	436.94	-100.58	788.02
	85.59	649.03	285.97	499.36	-114.79	900.60
	87.16	649.03	286.75	499.36	-112.44	900.60
	76.36	567.90	250.96	436.94	-98.24	788.02
	58.36	432.69	191.30	332.91	-74.57	600.40
	33.17	243.39	107.78	187.26	-41.43	337.72
	0.00	0.78	0.00	0.39	0.00	1.17
1.65	-0.78	0.00	-0.39	0.00	-1.17	0.00
	30.00	235.38	103.11	180.96	-43.11	326.64
	53.94	418.46	183.62	321.70	-75.74	580.70
	71.04	549.23	241.12	422.24	-99.04	762.17
	81.30	627.69	275.62	482.56	-113.02	871.05
	82.87	627.69	276.40	482.56	-110.67	871.05
	72.60	549.23	241.90	422.24	-96.69	762.17
	55.50	418.46	184.40	321.70	-73.39	580.70
	31.56	235.38	103.89	180.96	-40.77	326.64
	0.00	0.78	0.00	0.39	0.00	1.17
1.70	-0.78	0.00	-0.39	0.00	-1.17	0.00
	29.27	228.64	100.25	175.81	-41.70	317.27
	52.65	406.47	178.52	312.56	-73.23	564.04
	69.34	533.49	234.43	410.23	-95.74	740.31
	79.36	609.70	267.97	468.84	-109.25	846.07
	80.92	609.70	268.75	468.84	-106.91	846.07
	70.91	533.49	235.21	410.23	-93.40	740.31
	54.21	406.47	179.30	312.56	-70.88	564.04
	30.83	228.64	101.03	175.81	-39.36	317.27
	0.00	0.78	0.00	0.39	0.00	1.17
1.75	-0.78	0.00	-0.39	0.00	-1.17	0.00
	28.59	222.28	97.54	170.96	-40.37	308.44
	51.43	395.16	173.71	303.94	-70.86	548.34
	67.74	518.65	228.12	398.91	-92.64	719.70
	77.53	592.75	260.77	455.90	-105.70	822.52
	79.10	592.75	261.55	455.90	-103.36	822.52

	69.31	518.65	228.90	398.91	-90.29	719.70	
	52.99	395.16	174.50	303.94	-68.51	548.34	
	30.15	222.28	98.33	170.96	-38.03	308.44	
	0.00	0.78	0.00	0.39	0.00	1.17	
1.80	-0.78	0.00	-0.39	0.00	-1.17	0.00	
	27.94	216.28	94.99	166.38	-39.11	300.11	
	50.28	384.49	169.18	295.79	-68.62	533.52	
	66.24	504.64	222.17	388.23	-89.70	700.25	
	75.81	576.73	253.97	443.69	-102.35	800.28	
	77.37	576.73	254.75	443.69	-100.00	800.28	
	67.80	504.64	222.95	388.23	-87.35	700.25	
	51.84	384.49	169.96	295.79	-66.28	533.52	
	29.50	216.28	95.78	166.38	-36.77	300.11	
	0.00	0.78	0.00	0.39	0.00	1.17	
	1.85	-0.78	0.00	-0.39	0.00	-1.17	0.00
		26.06	209.33	91.32	160.79	-39.19	290.51
46.94		372.14	162.64	285.85	-68.75	516.46	
61.86		488.44	213.59	375.17	-89.87	677.86	
70.81		558.21	244.16	428.77	-102.54	774.69	
72.37		558.21	244.94	428.77	-100.20	774.69	
63.42		488.44	214.37	375.17	-87.53	677.86	
48.51		372.14	163.43	285.85	-66.41	516.46	
27.63		209.33	92.10	160.79	-36.84	290.51	
0.00		0.78	0.00	0.39	0.00	1.17	
1.90	-0.78	0.00	-0.39	0.00	-1.17	0.00	
	25.52	203.99	89.07	156.72	-38.02	283.09	
	45.98	362.64	158.64	278.61	-66.68	503.26	
	60.59	475.97	208.34	365.68	-87.16	660.54	
	69.36	543.96	238.16	417.92	-99.44	754.90	
	70.92	543.96	238.94	417.92	-97.09	754.90	
	62.16	475.97	209.12	365.68	-84.81	660.54	
	47.54	362.64	159.43	278.61	-64.34	503.26	
	27.09	203.99	89.85	156.72	-35.68	283.09	
	0.00	0.78	0.00	0.39	0.00	1.17	
1.95	-0.78	0.00	-0.39	0.00	-1.17	0.00	
	25.01	198.92	86.93	152.86	-36.92	276.04	
	45.07	353.63	154.85	271.76	-64.72	490.75	
	59.39	464.14	203.37	356.68	-84.58	644.10	
	67.99	530.44	232.47	407.63	-96.49	736.12	
	69.56	530.44	233.26	407.63	-94.15	736.12	
	60.96	464.14	204.15	356.68	-82.23	644.10	
	46.63	353.63	155.63	271.76	-62.37	490.75	
	26.57	198.92	87.72	152.86	-34.57	276.04	
	0.00	0.78	0.00	0.39	0.00	1.17	
2.00	-0.78	0.00	-0.39	0.00	-1.17	0.00	

	24.46	194.04	84.85	149.14	-35.92	269.28
	44.10	344.96	151.15	265.14	-62.95	478.72
	58.12	452.76	198.50	347.99	-82.26	628.31
	66.54	517.44	226.92	397.71	-93.84	718.07
	68.10	517.44	227.70	397.71	-91.50	718.07
	59.68	452.76	199.28	347.99	-79.91	628.31
	45.66	344.96	151.93	265.14	-60.61	478.72
	26.03	194.04	85.63	149.14	-33.58	269.28
	0.00	0.78	0.00	0.39	0.00	1.17
2.05	-0.78	0.00	-0.39	0.00	-1.17	0.00
	24.00	189.46	82.92	145.66	-34.92	262.92
	43.28	336.82	147.73	258.95	-61.17	467.41
	57.05	442.08	194.01	339.87	-79.92	613.48
	65.31	505.24	221.78	388.42	-91.17	701.12
	66.87	505.24	222.57	388.42	-88.83	701.12
	58.61	442.08	194.79	339.87	-77.58	613.48
	44.84	336.82	148.51	258.95	-58.83	467.41
	25.57	189.46	83.71	145.66	-32.58	262.92
	0.00	0.78	0.00	0.39	0.00	1.17
2.10	-0.78	0.00	-0.39	0.00	-1.17	0.00
	23.56	185.10	81.09	142.34	-33.97	256.86
	42.50	329.08	144.47	253.05	-59.47	456.65
	56.02	431.91	189.74	332.13	-77.69	599.35
	64.14	493.61	216.90	379.58	-88.62	684.97
	65.70	493.61	217.68	379.58	-86.28	684.97
	57.59	431.91	190.52	332.13	-75.35	599.35
	44.06	329.08	145.25	253.05	-57.13	456.65
	25.13	185.10	81.88	142.34	-31.62	256.86
	0.00	0.78	0.00	0.39	0.00	1.17
2.15	-0.78	0.00	-0.39	0.00	-1.17	0.00
	23.06	180.86	79.26	139.09	-33.15	250.97
	41.60	321.53	141.21	247.27	-58.01	446.17
	54.84	422.00	185.45	324.54	-75.78	585.60
	62.79	482.29	212.00	370.91	-86.43	669.25
	64.35	482.29	212.79	370.91	-84.09	669.25
	56.40	422.00	186.24	324.54	-73.43	585.60
	43.16	321.53	141.99	247.27	-55.67	446.17
	24.62	180.86	80.04	139.09	-30.80	250.97
	0.00	0.78	0.00	0.39	0.00	1.17
2.20	-0.78	0.00	-0.39	0.00	-1.17	0.00
	22.66	176.90	77.59	136.08	-32.27	245.46
	40.89	314.48	138.25	241.91	-56.46	436.38
	53.92	412.76	181.57	317.51	-73.74	572.75
	61.73	471.72	207.57	362.87	-84.10	654.57
	63.30	471.72	208.35	362.87	-81.76	654.57

	55.48	412.76	182.36	317.51	-71.39	572.75	
	42.46	314.48	139.03	241.91	-54.11	436.38	
	24.23	176.90	78.38	136.08	-29.93	245.46	
	0.00	0.78	0.00	0.39	0.00	1.17	
2.25	-0.78	0.00	-0.39	0.00	-1.17	0.00	
	22.29	173.11	76.01	133.20	-31.44	240.21	
	40.23	307.75	135.43	236.79	-54.97	427.03	
	53.04	403.92	177.87	310.79	-71.79	560.48	
	60.73	461.63	203.33	355.19	-81.87	640.55	
	62.29	461.63	204.12	355.19	-79.53	640.55	
	54.61	403.92	178.65	310.79	-69.44	560.48	
	41.79	307.75	136.21	236.79	-52.63	427.03	
	23.85	173.11	76.79	133.20	-29.09	240.21	
	0.00	0.78	0.00	0.39	0.00	1.17	
	2.30	-0.78	0.00	-0.39	0.00	-1.17	0.00
		20.40	167.96	72.96	128.92	-32.16	233.12
36.87		298.60	130.01	229.19	-56.26	414.43	
48.64		391.91	170.76	300.81	-73.48	543.94	
55.70		447.90	195.21	343.78	-83.81	621.64	
57.27		447.90	196.00	343.78	-81.46	621.64	
50.21		391.91	171.55	300.81	-71.13	543.94	
38.44		298.60	130.79	229.19	-53.92	414.43	
21.96		167.96	73.74	128.92	-29.82	233.12	
0.00		0.78	0.00	0.39	0.00	1.17	
2.35	-0.78	0.00	-0.39	0.00	-1.17	0.00	
	20.08	164.52	71.54	126.31	-31.37	228.34	
	36.31	292.49	127.48	224.55	-54.85	405.94	
	47.91	383.89	167.44	294.72	-71.62	532.79	
	54.86	438.73	191.41	336.83	-81.69	608.90	
	56.43	438.73	192.20	336.83	-79.34	608.90	
	49.47	383.89	168.22	294.72	-69.28	532.79	
	37.88	292.49	128.26	224.55	-52.50	405.94	
	21.65	164.52	72.32	126.31	-29.02	228.34	
	0.00	0.78	0.00	0.39	0.00	1.17	
2.40	-0.78	0.00	-0.39	0.00	-1.17	0.00	
	19.78	161.23	70.17	123.81	-30.60	223.76	
	35.78	286.63	125.05	220.11	-53.50	397.80	
	47.20	376.20	164.25	288.90	-69.85	522.11	
	54.06	429.95	187.77	330.17	-79.66	596.70	
	55.62	429.95	188.56	330.17	-77.31	596.70	
	48.77	376.20	165.04	288.90	-67.50	522.11	
	37.34	286.63	125.83	220.11	-51.15	397.80	
	21.35	161.23	70.95	123.81	-28.26	223.76	
	0.00	0.78	0.00	0.39	0.00	1.17	
2.45	-0.78	0.00	-0.39	0.00	-1.17	0.00	

	19.50	158.07	68.86	121.42	-29.87	219.37
	35.27	281.02	122.73	215.85	-52.19	390.00
	46.53	368.83	161.20	283.31	-68.14	511.87
	53.29	421.52	184.28	323.78	-77.70	584.99
	54.85	421.52	185.07	323.78	-75.36	584.99
	48.10	368.83	161.98	283.31	-65.79	511.87
	36.83	281.02	123.51	215.85	-49.85	390.00
	21.06	158.07	69.64	121.42	-27.53	219.37
	0.00	0.78	0.00	0.39	0.00	1.17
2.50	-0.78	0.00	-0.39	0.00	-1.17	0.00
	19.22	155.04	67.61	119.12	-29.17	215.16
	34.78	275.63	120.49	211.77	-50.94	382.51
	45.89	361.76	158.27	277.94	-66.50	502.04
	52.55	413.44	180.94	317.65	-75.83	573.76
	54.12	413.44	181.72	317.65	-73.48	573.76
	47.45	361.76	159.05	277.94	-64.15	502.04
	36.34	275.63	121.28	211.77	-48.60	382.51
	20.78	155.04	68.39	119.12	-26.82	215.16
	0.00	0.78	0.00	0.39	0.00	1.17
2.55	-0.78	0.00	-0.39	0.00	-1.17	0.00
	18.95	152.13	66.40	116.91	-28.49	211.11
	34.31	270.45	118.35	207.84	-49.74	375.31
	45.27	354.96	155.46	272.79	-64.92	492.60
	51.85	405.67	177.72	311.76	-74.02	562.97
	53.41	405.67	178.50	311.76	-71.68	562.97
	46.83	354.96	156.24	272.79	-62.57	492.60
	35.87	270.45	119.13	207.84	-47.39	375.31
	20.52	152.13	67.18	116.91	-26.15	211.11
	0.00	0.78	0.00	0.39	0.00	1.17
2.60	-0.78	0.00	-0.39	0.00	-1.17	0.00
	18.15	148.78	64.69	114.24	-28.39	206.48
	32.87	264.49	115.31	203.09	-49.56	367.07
	43.39	347.14	151.47	266.55	-64.68	481.78
	49.70	396.74	173.16	304.63	-73.76	550.61
	51.27	396.74	173.94	304.63	-71.41	550.61
	44.96	347.14	152.25	266.55	-62.34	481.78
	34.44	264.49	116.09	203.09	-47.22	367.07
	19.71	148.78	65.47	114.24	-26.05	206.48
	0.00	0.78	0.00	0.39	0.00	1.17
2.65	-0.78	0.00	-0.39	0.00	-1.17	0.00
	17.91	146.09	63.58	112.20	-27.76	202.74
	32.45	259.71	113.34	199.47	-48.44	360.43
	42.84	340.87	148.88	261.80	-63.21	473.07
	49.07	389.57	170.21	299.20	-72.07	540.65
	50.63	389.57	170.99	299.20	-69.72	540.65

	44.40	340.87	149.66	261.80	-60.86	473.07	
	34.02	259.71	114.12	199.47	-46.09	360.43	
	19.48	146.09	64.36	112.20	-25.41	202.74	
	0.00	0.78	0.00	0.39	0.00	1.17	
2.70	-0.78	0.00	-0.39	0.00	-1.17	0.00	
	17.68	143.50	62.52	110.24	-27.15	199.15	
	32.04	255.11	111.44	195.98	-47.35	354.04	
	42.30	334.83	146.39	257.23	-61.78	464.68	
	48.46	382.67	167.36	293.97	-70.44	531.06	
	50.02	382.67	168.14	293.97	-68.10	531.06	
	43.87	334.83	147.17	257.23	-59.44	464.68	
	33.61	255.11	112.22	195.98	-45.01	354.04	
	19.25	143.50	63.30	110.24	-24.80	199.15	
	0.00	0.78	0.00	0.39	0.00	1.17	
	2.75	-0.78	0.00	-0.39	0.00	-1.17	0.00
		17.32	140.87	61.35	108.21	-26.70	195.49
31.40		250.43	109.36	192.37	-46.56	347.54	
41.46		328.69	143.66	252.49	-60.74	456.15	
47.49		375.64	164.24	288.56	-69.25	521.31	
49.06		375.64	165.02	288.56	-66.91	521.31	
43.02		328.69	144.44	252.49	-58.40	456.15	
32.97		250.43	110.15	192.37	-44.21	347.54	
18.89		140.87	62.13	108.21	-24.36	195.49	
0.00		0.78	0.00	0.39	0.00	1.17	
2.80	-0.78	0.00	-0.39	0.00	-1.17	0.00	
	17.11	138.46	60.36	106.39	-26.13	192.16	
	31.03	246.16	107.61	189.14	-45.55	341.61	
	40.97	323.08	141.36	248.25	-59.41	448.36	
	46.94	369.24	161.61	283.71	-67.73	512.42	
	48.50	369.24	162.39	283.71	-65.39	512.42	
	42.54	323.08	142.14	248.25	-57.07	448.36	
	32.59	246.16	108.39	189.14	-43.20	341.61	
	18.68	138.46	61.14	106.39	-23.79	192.16	
	0.00	0.78	0.00	0.39	0.00	1.17	
2.85	-0.78	0.00	-0.39	0.00	-1.17	0.00	
	16.91	136.15	59.41	104.64	-25.58	188.94	
	30.67	242.04	105.91	186.02	-44.57	335.89	
	40.50	317.68	139.13	244.16	-58.13	440.85	
	46.40	363.06	159.07	279.04	-66.26	503.83	
	47.97	363.06	159.85	279.04	-63.92	503.83	
	42.07	317.68	139.92	244.16	-55.78	440.85	
	32.24	242.04	106.70	186.02	-42.22	335.89	
	18.48	136.15	60.19	104.64	-23.24	188.94	
	0.00	0.78	0.00	0.39	0.00	1.17	
2.90	-0.78	0.00	-0.39	0.00	-1.17	0.00	

	16.72	133.91	58.49	102.95	-25.05	185.83
	30.33	238.07	104.28	183.01	-43.62	330.37
	40.05	312.46	136.99	240.21	-56.88	433.60
	45.88	357.10	156.61	274.52	-64.84	495.55
	47.45	357.10	157.39	274.52	-62.50	495.55
	41.62	312.46	137.77	240.21	-54.54	433.60
	31.89	238.07	105.06	183.01	-41.27	330.37
	18.28	133.91	59.27	102.95	-22.70	185.83
	0.00	0.78	0.00	0.39	0.00	1.17
2.95	-0.78	0.00	-0.39	0.00	-1.17	0.00
	15.87	131.09	56.94	100.65	-25.20	181.94
	28.82	233.05	101.52	178.93	-43.88	323.44
	38.07	305.88	133.37	234.85	-57.23	424.52
	43.62	349.58	152.48	268.40	-65.24	485.16
	45.19	349.58	153.26	268.40	-62.89	485.16
	39.64	305.88	134.15	234.85	-54.88	424.52
	30.38	233.05	102.31	178.93	-41.54	323.44
	17.43	131.09	57.72	100.65	-22.85	181.94
	0.00	0.78	0.00	0.39	0.00	1.17
3.00	-0.78	0.00	-0.39	0.00	-1.17	0.00
	15.70	129.01	56.09	99.08	-24.69	179.05
	28.52	229.36	100.02	176.14	-42.98	318.31
	37.68	301.03	131.40	231.19	-56.04	417.78
	43.17	344.04	150.22	264.21	-63.88	477.47
	44.74	344.04	151.00	264.21	-61.53	477.47
	39.24	301.03	132.18	231.19	-53.69	417.78
	30.08	229.36	100.80	176.14	-40.63	318.31
	17.26	129.01	56.87	99.08	-22.34	179.05
	0.00	0.78	0.00	0.39	0.00	1.17
3.05	-0.78	0.00	-0.39	0.00	-1.17	0.00
	15.54	127.01	55.27	97.56	-24.20	176.26
	28.23	225.79	98.56	173.45	-42.10	313.35
	37.30	296.35	129.48	227.65	-54.89	411.27
	42.74	338.68	148.04	260.17	-62.57	470.02
	44.30	338.68	148.82	260.17	-60.22	470.02
	38.86	296.35	130.27	227.65	-52.55	411.27
	29.79	225.79	99.34	173.45	-39.76	313.35
	17.10	127.01	56.05	97.56	-21.85	176.26
	0.00	0.78	0.00	0.39	0.00	1.17
3.10	-0.78	0.00	-0.39	0.00	-1.17	0.00
	15.38	125.06	54.48	96.09	-23.72	173.56
	27.95	222.34	97.15	170.84	-41.25	308.55
	36.93	291.82	127.64	224.22	-53.78	404.97
	42.32	333.50	145.93	256.25	-61.29	462.82
	43.88	333.50	146.71	256.25	-58.95	462.82

	38.49	291.82	128.42	224.22	-51.43	404.97	
	29.51	222.34	97.94	170.84	-38.91	308.55	
	16.94	125.06	55.26	96.09	-21.37	173.56	
	0.00	0.78	0.00	0.39	0.00	1.17	
3.15	-0.78	0.00	-0.39	0.00	-1.17	0.00	
	15.23	123.18	53.71	94.67	-23.26	170.95	
	27.68	218.99	95.79	168.31	-40.43	303.90	
	36.57	287.43	125.85	220.91	-52.70	398.87	
	41.91	328.49	143.88	252.46	-60.06	455.85	
	43.47	328.49	144.66	252.46	-57.71	455.85	
	38.14	287.43	126.63	220.91	-50.35	398.87	
	29.24	218.99	96.57	168.31	-38.09	303.90	
	16.79	123.18	54.49	94.67	-20.91	170.95	
	0.00	0.78	0.00	0.39	0.00	1.17	
	3.20	-0.78	0.00	-0.39	0.00	-1.17	0.00
		15.08	121.36	52.97	93.30	-22.81	168.41
27.42		215.75	94.47	165.86	-39.63	299.40	
36.23		283.18	124.12	217.70	-51.65	392.96	
41.52		323.63	141.90	248.79	-58.87	449.10	
43.08		323.63	142.68	248.79	-56.52	449.10	
37.80		283.18	124.90	217.70	-49.31	392.96	
28.98		215.75	95.25	165.86	-37.29	299.40	
16.64		121.36	53.75	93.30	-20.46	168.41	
0.00		0.78	0.00	0.39	0.00	1.17	
3.25	-0.78	0.00	-0.39	0.00	-1.17	0.00	
	14.94	119.60	52.25	91.96	-22.37	165.96	
	27.17	212.62	93.19	163.49	-38.86	295.04	
	35.90	279.06	122.44	214.58	-50.64	387.24	
	41.14	318.92	139.99	245.24	-57.71	442.56	
	42.70	318.92	140.77	245.24	-55.36	442.56	
	37.46	279.06	123.22	214.58	-48.29	387.24	
	28.73	212.62	93.98	163.49	-36.52	295.04	
	16.50	119.60	53.03	91.96	-20.03	165.96	
	0.00	0.78	0.00	0.39	0.00	1.17	
3.30	-0.78	0.00	-0.39	0.00	-1.17	0.00	
	14.80	117.88	51.55	90.67	-21.95	163.58	
	26.92	209.57	91.95	161.19	-38.11	290.81	
	35.58	275.06	120.81	211.57	-49.66	381.69	
	40.77	314.36	138.13	241.79	-56.58	436.22	
	42.34	314.36	138.91	241.79	-54.24	436.22	
	37.14	275.06	121.59	211.57	-47.31	381.69	
	28.49	209.57	92.74	161.19	-35.77	290.81	
	16.37	117.88	52.34	90.67	-19.61	163.58	
	0.00	0.78	0.00	0.39	0.00	1.17	
3.35	-0.78	0.00	-0.39	0.00	-1.17	0.00	

	14.67	116.22	50.88	89.42	-21.54	161.27
	26.68	206.62	90.75	158.96	-37.38	286.71
	35.27	271.19	119.24	208.64	-48.70	376.31
	40.42	309.93	136.32	238.45	-55.49	430.06
	41.98	309.93	137.11	238.45	-53.14	430.06
	36.83	271.19	120.02	208.64	-46.35	376.31
	28.25	206.62	91.53	158.96	-35.04	286.71
	16.23	116.22	51.66	89.42	-19.20	161.27
	0.00	0.78	0.00	0.39	0.00	1.17
3.40	-0.78	0.00	-0.39	0.00	-1.17	0.00
	14.54	114.61	50.22	88.20	-21.14	159.03
	26.46	203.76	89.59	156.80	-36.68	282.73
	34.97	267.43	117.71	205.80	-47.77	371.08
	40.07	305.64	134.58	235.20	-54.43	424.09
	41.64	305.64	135.36	235.20	-52.08	424.09
	36.53	267.43	118.49	205.80	-45.43	371.08
	28.02	203.76	90.37	156.80	-34.33	282.73
	16.10	114.61	51.00	88.20	-18.80	159.03
	0.00	0.78	0.00	0.39	0.00	1.17
3.45	-0.78	0.00	-0.39	0.00	-1.17	0.00
	14.41	113.05	49.59	87.02	-20.76	156.86
	26.23	200.98	88.46	154.70	-35.99	278.86
	34.68	263.78	116.22	203.05	-46.87	366.01
	39.74	301.47	132.88	232.05	-53.40	418.30
	41.30	301.47	133.66	232.05	-51.05	418.30
	36.24	263.78	117.00	203.05	-44.52	366.01
	27.80	200.98	89.24	154.70	-33.64	278.86
	15.98	113.05	50.37	87.02	-18.41	156.86
	0.00	0.78	0.00	0.39	0.00	1.17
3.50	-0.78	0.00	-0.39	0.00	-1.17	0.00
	14.29	111.53	48.97	85.87	-20.38	154.75
	26.02	198.28	87.36	152.66	-35.32	275.11
	34.39	260.24	114.78	200.37	-45.99	361.08
	39.42	297.42	131.23	228.99	-52.40	412.67
	40.98	297.42	132.01	228.99	-50.05	412.67
	35.96	260.24	115.56	200.37	-43.65	361.08
	27.58	198.28	88.14	152.66	-32.98	275.11
	15.86	111.53	49.75	85.87	-18.04	154.75
	0.00	0.78	0.00	0.39	0.00	1.17
3.55	-0.78	0.00	-0.39	0.00	-1.17	0.00
	14.18	110.05	48.37	84.76	-20.02	152.70
	25.81	195.65	86.29	150.68	-34.67	271.46
	34.12	256.79	113.38	197.77	-45.14	356.30
	39.10	293.48	129.63	226.02	-51.42	407.20
	40.67	293.48	130.41	226.02	-49.08	407.20

	35.68	256.79	114.16	197.77	-42.79	356.30
	27.37	195.65	87.07	150.68	-32.33	271.46
	15.74	110.05	49.15	84.76	-17.67	152.70
	0.00	0.78	0.00	0.39	0.00	1.17
3.60	-0.78	0.00	-0.39	0.00	-1.17	0.00
	14.06	108.62	47.78	83.67	-19.66	150.70
	25.61	193.10	85.25	148.76	-34.04	267.92
	33.85	253.45	112.02	195.24	-44.31	351.64
	38.80	289.65	128.07	223.13	-50.47	401.88
	40.36	289.65	128.86	223.13	-48.13	401.88
	35.42	253.45	112.80	195.24	-41.96	351.64
	27.17	193.10	86.03	148.76	-31.69	267.92
	15.63	108.62	48.57	83.67	-17.31	150.70
	0.00	0.78	0.00	0.39	0.00	1.17
		-0.78	0.00	-0.39	0.00	-1.17
3.65	13.95	107.22	47.22	82.62	-19.31	148.77
	25.41	190.62	84.24	146.88	-33.42	264.47
	33.59	250.19	110.69	192.78	-43.50	347.12
	38.51	285.93	126.56	220.32	-49.55	396.71
	40.07	285.93	127.34	220.32	-47.20	396.71
	35.16	250.19	111.48	192.78	-41.16	347.12
	26.97	190.62	85.03	146.88	-31.08	264.47
	15.52	107.22	48.00	82.62	-16.97	148.77
	0.00	0.78	0.00	0.39	0.00	1.17
		-0.78	0.00	-0.39	0.00	-1.17
3.70	13.84	105.87	46.66	81.60	-18.98	146.88
	25.22	188.21	83.26	145.06	-32.83	261.12
	33.34	247.02	109.41	190.39	-42.72	342.72
	38.22	282.31	125.09	217.59	-48.65	391.68
	39.78	282.31	125.87	217.59	-46.31	391.68
	34.91	247.02	110.19	190.39	-40.37	342.72
	26.78	188.21	84.05	145.06	-30.48	261.12
	15.41	105.87	47.45	81.60	-16.63	146.88
	0.00	0.78	0.00	0.39	0.00	1.17
		-0.78	0.00	-0.39	0.00	-1.17
3.75	13.70	104.50	46.09	80.56	-18.69	144.99
	24.96	185.79	82.23	143.21	-32.32	257.75
	33.00	243.84	108.06	187.97	-42.05	338.30
	37.83	278.68	123.55	214.82	-47.89	386.63
	39.39	278.68	124.33	214.82	-45.54	386.63
	34.57	243.84	108.84	187.97	-39.70	338.30
	26.52	185.79	83.02	143.21	-29.97	257.75
	15.26	104.50	46.87	80.56	-16.35	144.99
	0.00	0.78	0.00	0.39	0.00	1.17
	3.80	-0.78	0.00	-0.39	0.00	-1.17

	13.60	103.22	45.56	79.59	-18.37	143.20
	24.78	183.50	81.31	141.49	-31.75	254.58
	32.77	240.84	106.84	185.70	-41.30	334.13
	37.56	275.25	122.16	212.23	-47.04	381.86
	39.12	275.25	122.94	212.23	-44.69	381.86
	34.33	240.84	107.62	185.70	-38.96	334.13
	26.34	183.50	82.09	141.49	-29.40	254.58
	15.16	103.22	46.35	79.59	-16.03	143.20
	0.00	0.78	0.00	0.39	0.00	1.17
3.85	-0.78	0.00	-0.39	0.00	-1.17	0.00
	13.50	101.97	45.06	78.64	-18.06	141.46
	24.60	181.27	80.40	139.81	-31.19	251.48
	32.54	237.92	105.65	183.50	-40.58	330.07
	37.30	271.91	120.80	209.71	-46.20	377.22
	38.86	271.91	121.58	209.71	-43.86	377.22
	34.10	237.92	106.43	183.50	-38.23	330.07
	26.17	181.27	81.18	139.81	-28.85	251.48
	15.06	101.97	45.84	78.64	-15.71	141.46
	0.00	0.78	0.00	0.39	0.00	1.17
3.90	-0.78	0.00	-0.39	0.00	-1.17	0.00
	13.40	100.75	44.56	77.72	-17.76	139.76
	24.43	179.11	79.52	138.17	-30.65	248.47
	32.31	235.08	104.50	181.35	-39.87	326.11
	37.04	268.66	119.48	207.26	-45.39	372.70
	38.61	268.66	120.26	207.26	-43.05	372.70
	33.88	235.08	105.28	181.35	-37.52	326.11
	26.00	179.11	80.30	138.17	-28.31	248.47
	14.97	100.75	45.34	77.72	-15.41	139.76
	0.00	0.78	0.00	0.39	0.00	1.17
3.95	-0.78	0.00	-0.39	0.00	-1.17	0.00
	13.31	99.56	44.08	76.82	-17.46	138.11
	24.27	176.99	78.66	136.58	-30.13	245.53
	32.10	232.30	103.37	179.25	-39.17	322.26
	36.79	265.49	118.19	204.86	-44.60	368.30
	38.36	265.49	118.97	204.86	-42.26	368.30
	33.66	232.30	104.15	179.25	-36.83	322.26
	25.83	176.99	79.45	136.58	-27.78	245.53
	14.87	99.56	44.86	76.82	-15.11	138.11
	0.00	0.78	0.00	0.39	0.00	1.17
4.00	-0.78	0.00	-0.39	0.00	-1.17	0.00
	13.22	98.40	43.61	75.95	-17.17	136.50
	24.11	174.93	77.83	135.02	-29.61	242.67
	31.89	229.60	102.27	177.21	-38.50	318.50
	36.55	262.40	116.94	202.53	-43.83	364.00
	38.12	262.40	117.72	202.53	-41.49	364.00

	33.45	229.60	103.05	177.21	-36.15	318.50	
	25.67	174.93	78.61	135.02	-27.27	242.67	
	14.78	98.40	44.39	75.95	-14.82	136.50	
	0.00	0.78	0.00	0.39	0.00	1.17	
4.05	-0.78	0.00	-0.39	0.00	-1.17	0.00	
	13.13	97.27	43.15	75.10	-16.89	134.93	
	23.95	172.92	77.01	133.50	-29.11	239.87	
	31.68	226.96	101.20	175.22	-37.84	314.84	
	36.32	259.39	115.72	200.26	-43.08	359.81	
	37.88	259.39	116.50	200.26	-40.73	359.81	
	33.25	226.96	101.99	175.22	-35.49	314.84	
	25.52	172.92	77.80	133.50	-26.76	239.87	
	14.69	97.27	43.93	75.10	-14.54	134.93	
	0.00	0.78	0.00	0.39	0.00	1.17	
	4.10	-0.78	0.00	-0.39	0.00	-1.17	0.00
		13.04	96.17	42.70	74.26	-16.61	133.40
23.80		170.96	76.22	132.03	-28.62	237.15	
31.48		224.39	100.16	173.28	-37.20	311.26	
36.09		256.45	114.52	198.04	-42.34	355.73	
37.65		256.45	115.31	198.04	-40.00	355.73	
33.05		224.39	100.94	173.28	-34.85	311.26	
25.36		170.96	77.00	132.03	-26.27	237.15	
14.61		96.17	43.48	74.26	-14.27	133.40	
0.00		0.78	0.00	0.39	0.00	1.17	
4.15	-0.78	0.00	-0.39	0.00	-1.17	0.00	
	12.96	95.09	42.27	73.45	-16.34	131.90	
	23.65	169.05	75.44	130.58	-28.14	234.49	
	31.29	221.88	99.14	171.39	-36.57	307.77	
	35.87	253.58	113.36	195.87	-41.63	351.74	
	37.43	253.58	114.14	195.87	-39.28	351.74	
	32.85	221.88	99.92	171.39	-34.22	307.77	
	25.22	169.05	76.23	130.58	-25.80	234.49	
	14.53	95.09	43.05	73.45	-14.00	131.90	
	0.00	0.78	0.00	0.39	0.00	1.17	
4.20	-0.78	0.00	-0.39	0.00	-1.17	0.00	
	12.88	94.04	41.84	72.66	-16.08	130.44	
	23.51	167.19	74.69	129.17	-27.67	231.90	
	31.10	219.43	98.15	169.54	-35.96	304.37	
	35.65	250.78	112.23	193.76	-40.93	347.85	
	37.21	250.78	113.01	193.76	-38.58	347.85	
	32.66	219.43	98.93	169.54	-33.61	304.37	
	25.07	167.19	75.47	129.17	-25.33	231.90	
	14.44	94.04	42.62	72.66	-13.73	130.44	
	0.00	0.78	0.00	0.39	0.00	1.17	
4.25	-0.78	0.00	-0.39	0.00	-1.17	0.00	

	12.80	93.02	41.43	71.89	-15.82	129.02
	23.37	165.36	73.95	127.80	-27.22	229.37
	30.91	217.04	97.18	167.74	-35.36	301.04
	35.44	248.05	111.12	191.70	-40.24	344.05
	37.00	248.05	111.90	191.70	-37.89	344.05
	32.48	217.04	97.96	167.74	-33.01	301.04
	24.93	165.36	74.73	127.80	-24.87	229.37
	14.36	93.02	42.21	71.89	-13.48	129.02
	0.00	0.78	0.00	0.39	0.00	1.17
4.30	-0.78	0.00	-0.39	0.00	-1.17	0.00
	12.72	92.02	41.02	71.13	-15.57	127.63
	23.23	163.58	73.23	126.46	-26.77	226.89
	30.73	214.70	96.23	165.97	-34.77	297.80
	35.23	245.38	110.04	189.68	-39.57	340.34
	36.80	245.38	110.82	189.68	-37.23	340.34
	32.30	214.70	97.02	165.97	-32.43	297.80
	24.79	163.58	74.01	126.46	-24.43	226.89
	14.29	92.02	41.80	71.13	-13.23	127.63
	0.00	0.78	0.00	0.39	0.00	1.17
4.35	-0.78	0.00	-0.39	0.00	-1.17	0.00
	12.65	91.04	40.62	70.39	-15.33	126.27
	23.09	161.85	72.52	125.14	-26.34	224.48
	30.56	212.42	95.31	164.25	-34.20	294.62
	35.03	242.77	108.98	187.72	-38.92	336.71
	36.60	242.77	109.76	187.72	-36.57	336.71
	32.12	212.42	96.09	164.25	-31.85	294.62
	24.66	161.85	73.31	125.14	-23.99	224.48
	14.21	91.04	41.41	70.39	-12.98	126.27
	0.00	0.78	0.00	0.39	0.00	1.17
4.40	-0.78	0.00	-0.39	0.00	-1.17	0.00
	12.57	90.08	40.24	69.67	-15.09	124.94
	22.96	160.15	71.84	123.86	-25.91	222.11
	30.38	210.19	94.41	162.57	-33.64	291.53
	34.84	240.22	107.95	185.80	-38.28	333.17
	36.40	240.22	108.73	185.80	-35.93	333.17
	31.95	210.19	95.19	162.57	-31.29	291.53
	24.53	160.15	72.62	123.86	-23.56	222.11
	14.14	90.08	41.02	69.67	-12.74	124.94
	0.00	0.78	0.00	0.39	0.00	1.17
4.45	-0.78	0.00	-0.39	0.00	-1.17	0.00
	12.50	89.15	39.86	68.97	-14.85	123.64
	22.84	158.49	71.16	122.61	-25.49	219.81
	30.22	208.01	93.52	160.93	-33.09	288.50
	34.64	237.73	106.94	183.92	-37.65	329.71
	36.21	237.73	107.72	183.92	-35.31	329.71

	31.78	208.01	94.31	160.93	-30.75	288.50
	24.40	158.49	71.95	122.61	-23.15	219.81
	14.07	89.15	40.64	68.97	-12.51	123.64
	0.00	0.78	0.00	0.39	0.00	1.17
4.50	-0.78	0.00	-0.39	0.00	-1.17	0.00
	12.43	88.24	39.49	68.28	-14.62	122.37
	22.71	156.86	70.51	121.39	-25.08	217.55
	30.05	205.88	92.66	159.32	-32.56	285.54
	34.46	235.30	105.95	182.08	-37.04	326.33
	36.02	235.30	106.74	182.08	-34.69	326.33
	31.62	205.88	93.44	159.32	-30.21	285.54
	24.28	156.86	71.29	121.39	-22.74	217.55
	14.00	88.24	40.27	68.28	-12.28	122.37
	0.00	0.78	0.00	0.39	0.00	1.17

En la Tabla 7 se muestran las combinaciones de esfuerzos para los montantes en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 7. Combinación de esfuerzos de los montantes - 10 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Mín (KN)	Máx(KN)	Mín (KN)	Máx(KN)	Mín (KN)	Máx(KN)
0.50	4.17	16.88	8.69	13.50	-0.35	23.34
	-118.16	-29.45	-94.49	-60.94	-163.37	2.04
	-84.40	-21.11	-67.49	-43.57	-116.69	1.34
	-50.64	-12.77	-40.50	-26.19	-70.02	0.65
	-16.88	-4.43	-13.50	-8.82	-23.34	-0.05
	0.00	0.00	0.00	0.00	0.00	0.00
	-16.88	-3.90	-13.50	-8.55	-23.34	0.75
	-50.64	-12.24	-40.50	-25.93	-70.02	1.44
	-84.40	-20.58	-67.49	-43.30	-116.69	2.14
	-118.16	-28.92	-94.49	-60.68	-163.37	2.83
0.55	4.17	16.88	8.69	13.50	-0.35	23.34
	3.73	16.44	8.25	13.06	-0.79	22.75
	-115.08	-26.40	-91.42	-57.88	-159.22	5.07
	-82.20	-18.94	-65.30	-41.38	-113.73	3.50
	-49.32	-11.48	-39.18	-24.89	-68.24	1.92
	-16.44	-4.02	-13.06	-8.39	-22.75	0.35
	0.00	0.00	0.00	0.00	0.00	0.00
	-16.44	-3.44	-13.06	-8.10	-22.75	1.22
	-49.32	-10.90	-39.18	-24.60	-68.24	2.80
	-82.20	-18.36	-65.30	-41.09	-113.73	4.37
-115.08	-25.82	-91.42	-57.59	-159.22	5.95	
3.73	16.44	8.25	13.06	-0.79	22.75	

0.60	3.42	16.13	7.94	12.75	-1.10	22.33
	-112.93	-24.27	-89.26	-55.74	-156.31	7.19
	-80.66	-17.43	-63.76	-39.86	-111.65	5.00
	-48.40	-10.58	-38.25	-23.98	-66.99	2.81
	-16.13	-3.74	-12.75	-8.10	-22.33	0.62
	0.00	0.00	0.00	0.00	0.00	0.00
	-16.13	-3.10	-12.75	-7.78	-22.33	1.57
	-48.40	-9.95	-38.25	-23.66	-66.99	3.76
	-80.66	-16.79	-63.76	-39.54	-111.65	5.95
	-112.93	-23.64	-89.26	-55.42	-156.31	8.15
	3.42	16.13	7.94	12.75	-1.10	22.33
0.65	3.32	16.03	7.84	12.65	-1.20	22.19
	-112.20	-23.57	-88.53	-55.02	-155.33	7.88
	-80.14	-16.94	-63.24	-39.35	-110.95	5.48
	-48.09	-10.30	-37.94	-23.68	-66.57	3.08
	-16.03	-3.66	-12.65	-8.01	-22.19	0.68
	0.00	0.00	0.00	0.00	0.00	0.00
	-16.03	-2.97	-12.65	-7.66	-22.19	1.72
	-48.09	-9.61	-37.94	-23.34	-66.57	4.11
	-80.14	-16.25	-63.24	-39.01	-110.95	6.51
	-112.20	-22.88	-88.53	-54.68	-155.33	8.91
	3.32	16.03	7.84	12.65	-1.20	22.19
0.70	3.05	15.76	7.57	12.38	-1.47	21.83
	-110.33	-21.73	-86.66	-53.17	-152.81	9.71
	-78.81	-15.63	-61.90	-38.03	-109.15	6.77
	-47.29	-9.53	-37.14	-22.89	-65.49	3.84
	-15.76	-3.42	-12.38	-7.75	-21.83	0.91
	0.00	0.00	0.00	0.00	0.00	0.00
	-15.76	-2.68	-12.38	-7.38	-21.83	2.02
	-47.29	-8.78	-37.14	-22.52	-65.49	4.95
	-78.81	-14.89	-61.90	-37.66	-109.15	7.89
	-110.33	-20.99	-86.66	-52.80	-152.81	10.82
	3.05	15.76	7.57	12.38	-1.47	21.83
0.75	2.90	15.61	7.42	12.23	-1.62	21.63
	-109.29	-20.71	-85.62	-52.14	-151.40	10.71
	-78.06	-14.91	-61.16	-37.30	-108.14	7.48
	-46.84	-9.10	-36.69	-22.46	-64.88	4.25
	-15.61	-3.30	-12.23	-7.62	-21.63	1.02
	0.00	0.00	0.00	0.00	0.00	0.00
	-15.61	-2.50	-12.23	-7.22	-21.63	2.21
	-46.84	-8.31	-36.69	-22.06	-64.88	5.44
	-78.06	-14.11	-61.16	-36.90	-108.14	8.67
	-109.29	-19.92	-85.62	-51.74	-151.40	11.90
	2.90	15.61	7.42	12.23	-1.62	21.63
0.80	2.78	15.49	7.30	12.11	-1.73	21.47

	-108.46	-19.91	-84.79	-51.32	-150.28	11.50
	-77.47	-14.34	-60.57	-36.72	-107.34	8.03
	-46.48	-8.78	-36.34	-22.12	-64.40	4.56
	-15.49	-3.21	-12.11	-7.51	-21.47	1.10
	0.00	0.00	0.00	0.00	0.00	0.00
	-15.49	-2.36	-12.11	-7.09	-21.47	2.37
	-46.48	-7.93	-36.34	-21.69	-64.40	5.84
	-77.47	-13.50	-60.57	-36.30	-107.34	9.30
	-108.46	-19.06	-84.79	-50.90	-150.28	12.77
	2.78	15.49	7.30	12.11	-1.73	21.47
0.85	2.65	15.36	7.17	11.98	-1.86	21.29
	-107.54	-19.02	-83.87	-50.42	-149.04	12.38
	-76.81	-13.71	-59.91	-36.08	-106.46	8.65
	-46.09	-8.41	-35.95	-21.74	-63.87	4.92
	-15.36	-3.10	-11.98	-7.40	-21.29	1.19
	0.00	0.00	0.00	0.00	0.00	0.00
	-15.36	-2.20	-11.98	-6.95	-21.29	2.54
	-46.09	-7.51	-35.95	-21.29	-63.87	6.27
	-76.81	-12.81	-59.91	-35.63	-106.46	10.00
	-107.54	-18.12	-83.87	-49.97	-149.04	13.73
	2.65	15.36	7.17	11.98	-1.86	21.29
0.90	2.51	15.22	7.03	11.84	-2.00	21.10
	-106.57	-18.08	-82.90	-49.46	-147.73	13.31
	-76.12	-13.05	-59.22	-35.40	-105.52	9.30
	-45.67	-8.02	-35.53	-21.33	-63.31	5.29
	-15.22	-2.99	-11.84	-7.27	-21.10	1.29
	0.00	0.00	0.00	0.00	0.00	0.00
	-15.22	-2.04	-11.84	-6.79	-21.10	2.72
	-45.67	-7.07	-35.53	-20.86	-63.31	6.73
	-76.12	-12.09	-59.22	-34.92	-105.52	10.73
	-106.57	-17.12	-82.90	-48.98	-147.73	14.74
	2.51	15.22	7.03	11.84	-2.00	21.10
0.95	2.52	15.23	7.03	11.85	-2.00	21.11
	-106.59	-18.12	-82.93	-49.50	-147.76	13.25
	-76.14	-13.09	-59.23	-35.43	-105.54	9.25
	-45.68	-8.06	-35.54	-21.36	-63.32	5.25
	-15.23	-3.02	-11.85	-7.29	-21.11	1.25
	0.00	0.00	0.00	0.00	0.00	0.00
	-15.23	-2.01	-11.85	-6.78	-21.11	2.76
	-45.68	-7.05	-35.54	-20.85	-63.32	6.76
	-76.14	-12.08	-59.23	-34.92	-105.54	10.76
	-106.59	-17.12	-82.93	-48.99	-147.76	14.76
	2.52	15.23	7.03	11.85	-2.00	21.11
1.00	2.33	15.04	6.84	11.65	-2.19	20.85
	-105.25	-16.81	-81.58	-48.17	-145.95	14.55

	-75.18	-12.16	-58.27	-34.48	-104.25	10.16
	-45.11	-7.51	-34.96	-20.79	-62.55	5.78
	-15.04	-2.86	-11.65	-7.11	-20.85	1.40
	0.00	0.00	0.00	0.00	0.00	0.00
	-15.04	-1.80	-11.65	-6.58	-20.85	2.99
	-45.11	-6.45	-34.96	-20.26	-62.55	7.37
	-75.18	-11.10	-58.27	-33.95	-104.25	11.75
	-105.25	-15.75	-81.58	-47.64	-145.95	16.14
	2.33	15.04	6.84	11.65	-2.19	20.85
1.05	2.34	15.05	6.85	11.67	-2.18	20.86
	-105.33	-16.91	-81.66	-48.26	-146.05	14.43
	-75.23	-12.24	-58.33	-34.55	-104.32	10.07
	-45.14	-7.57	-35.00	-20.84	-62.59	5.71
	-15.05	-2.89	-11.67	-7.13	-20.86	1.35
	0.00	0.00	0.00	0.00	0.00	0.00
	-15.05	-1.78	-11.67	-6.58	-20.86	3.02
	-45.14	-6.45	-35.00	-20.28	-62.59	7.38
	-75.23	-11.13	-58.33	-33.99	-104.32	11.74
	-105.33	-15.80	-81.66	-47.70	-146.05	16.10
	2.34	15.05	6.85	11.67	-2.18	20.86
1.10	2.21	14.92	6.73	11.54	-2.31	20.69
	-104.43	-16.04	-80.76	-47.37	-144.84	15.29
	-74.59	-11.63	-57.69	-33.92	-103.46	10.67
	-44.76	-7.21	-34.61	-20.47	-62.07	6.05
	-14.92	-2.79	-11.54	-7.02	-20.69	1.43
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.92	-1.63	-11.54	-6.43	-20.69	3.18
	-44.76	-6.04	-34.61	-19.89	-62.07	7.80
	-74.59	-10.46	-57.69	-33.34	-103.46	12.42
	-104.43	-14.88	-80.76	-46.79	-144.84	17.04
	2.21	14.92	6.73	11.54	-2.31	20.69
1.15	2.22	14.93	6.74	11.55	-2.30	20.71
	-104.51	-16.15	-80.84	-47.46	-144.94	15.17
	-74.65	-11.71	-57.74	-33.99	-103.53	10.58
	-44.79	-7.27	-34.65	-20.52	-62.12	5.98
	-14.93	-2.83	-11.55	-7.04	-20.71	1.38
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.93	-1.61	-11.55	-6.43	-20.71	3.21
	-44.79	-6.05	-34.65	-19.91	-62.12	7.81
	-74.65	-10.49	-57.74	-33.38	-103.53	12.41
	-104.51	-14.93	-80.84	-46.85	-144.94	17.00
	2.22	14.93	6.74	11.55	-2.30	20.71
1.20	2.16	14.87	6.68	11.49	-2.35	20.63
	-104.12	-15.79	-80.45	-47.09	-144.42	15.52
	-74.37	-11.46	-57.47	-33.73	-103.16	10.81

	-44.62	-7.13	-34.48	-20.36	-61.89	6.11
	-14.87	-2.80	-11.49	-7.00	-20.63	1.40
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.87	-1.53	-11.49	-6.36	-20.63	3.31
	-44.62	-5.86	-34.48	-19.73	-61.89	8.01
	-74.37	-10.18	-57.47	-33.09	-103.16	12.72
	-104.12	-14.51	-80.45	-46.45	-144.42	17.43
	2.16	14.87	6.68	11.49	-2.35	20.63
1.25	2.10	14.81	6.62	11.43	-2.42	20.55
	-103.68	-15.37	-80.02	-46.67	-143.83	15.92
	-74.06	-11.17	-57.15	-33.43	-102.74	11.09
	-44.44	-6.97	-34.29	-20.19	-61.64	6.25
	-14.81	-2.76	-11.43	-6.95	-20.55	1.42
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.81	-1.44	-11.43	-6.29	-20.55	3.41
	-44.44	-5.64	-34.29	-19.53	-61.64	8.24
	-74.06	-9.85	-57.15	-32.76	-102.74	13.07
	-103.68	-14.05	-80.02	-46.00	-143.83	17.91
	2.10	14.81	6.62	11.43	-2.42	20.55
1.30	2.02	14.73	6.54	11.35	-2.49	20.44
	-103.14	-14.86	-79.48	-46.14	-143.10	16.42
	-73.67	-10.81	-56.77	-33.05	-102.22	11.43
	-44.20	-6.76	-34.06	-19.97	-61.33	6.45
	-14.73	-2.71	-11.35	-6.89	-20.44	1.46
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.73	-1.34	-11.35	-6.20	-20.44	3.53
	-44.20	-5.38	-34.06	-19.28	-61.33	8.51
	-73.67	-9.43	-56.77	-32.37	-102.22	13.50
	-103.14	-13.48	-79.48	-45.45	-143.10	18.49
	2.02	14.73	6.54	11.35	-2.49	20.44
1.35	2.03	14.74	6.55	11.36	-2.49	20.45
	-103.19	-14.94	-79.53	-46.20	-143.17	16.33
	-73.71	-10.87	-56.80	-33.10	-102.26	11.36
	-44.23	-6.81	-34.08	-20.01	-61.36	6.38
	-14.74	-2.75	-11.36	-6.91	-20.45	1.41
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.74	-1.32	-11.36	-6.19	-20.45	3.56
	-44.23	-5.38	-34.08	-19.29	-61.36	8.53
	-73.71	-9.44	-56.80	-32.39	-102.26	13.50
	-103.19	-13.51	-79.53	-45.49	-143.17	18.47
	2.03	14.74	6.55	11.36	-2.49	20.45
1.40	2.04	14.75	6.56	11.37	-2.47	20.47
	-103.27	-15.04	-79.60	-46.29	-143.28	16.21
	-73.77	-10.96	-56.86	-33.17	-102.34	11.26
	-44.26	-6.87	-34.12	-20.05	-61.40	6.31

	-14.75	-2.78	-11.37	-6.93	-20.47	1.36
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.75	-1.30	-11.37	-6.19	-20.47	3.59
	-44.26	-5.39	-34.12	-19.31	-61.40	8.54
	-73.77	-9.47	-56.86	-32.43	-102.34	13.49
	-103.27	-13.56	-79.60	-45.55	-143.28	18.44
	2.04	14.75	6.56	11.37	-2.47	20.47
1.45	2.05	14.76	6.57	11.38	-2.46	20.48
	-103.35	-15.15	-79.69	-46.39	-143.38	16.09
	-73.82	-11.04	-56.92	-33.24	-102.42	11.16
	-44.29	-6.93	-34.15	-20.10	-61.45	6.24
	-14.76	-2.82	-11.38	-6.96	-20.48	1.31
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.76	-1.29	-11.38	-6.19	-20.48	3.62
	-44.29	-5.39	-34.15	-19.33	-61.45	8.54
	-73.82	-9.50	-56.92	-32.48	-102.42	13.47
	-103.35	-13.61	-79.69	-45.62	-143.38	18.39
	2.05	14.76	6.57	11.38	-2.46	20.48
1.50	2.02	14.73	6.53	11.35	-2.50	20.43
	-103.09	-14.91	-79.42	-46.14	-143.03	16.32
	-73.63	-10.88	-56.73	-33.07	-102.16	11.31
	-44.18	-6.84	-34.04	-20.00	-61.30	6.31
	-14.73	-2.81	-11.35	-6.93	-20.43	1.31
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.73	-1.22	-11.35	-6.14	-20.43	3.69
	-44.18	-5.25	-34.04	-19.20	-61.30	8.70
	-73.63	-9.29	-56.73	-32.27	-102.16	13.70
	-103.09	-13.32	-79.42	-45.34	-143.03	18.70
	2.02	14.73	6.53	11.35	-2.50	20.43
1.55	1.94	14.65	6.46	11.27	-2.58	20.33
	-102.55	-14.40	-78.88	-45.61	-142.30	16.81
	-73.25	-10.52	-56.34	-32.70	-101.64	11.66
	-43.95	-6.64	-33.81	-19.78	-60.99	6.50
	-14.65	-2.76	-11.27	-6.87	-20.33	1.35
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.65	-1.12	-11.27	-6.05	-20.33	3.81
	-43.95	-5.00	-33.81	-18.96	-60.99	8.97
	-73.25	-8.88	-56.34	-31.88	-101.64	14.12
	-102.55	-12.76	-78.88	-44.79	-142.30	19.28
	1.94	14.65	6.46	11.27	-2.58	20.33
1.60	1.95	14.66	6.47	11.28	-2.57	20.34
	-102.63	-14.51	-78.96	-45.71	-142.41	16.69
	-73.31	-10.60	-56.40	-32.77	-101.72	11.56
	-43.98	-6.70	-33.84	-19.83	-61.03	6.43
	-14.66	-2.80	-11.28	-6.89	-20.34	1.29

	0.00	0.00	0.00	0.00	0.00	0.00
	-14.66	-1.10	-11.28	-6.04	-20.34	3.84
	-43.98	-5.01	-33.84	-18.98	-61.03	8.97
	-73.31	-8.91	-56.40	-31.92	-101.72	14.10
	-102.63	-12.81	-78.96	-44.86	-142.41	19.24
	1.95	14.66	6.47	11.28	-2.57	20.34
1.65	1.91	14.62	6.43	11.24	-2.61	20.29
	-102.36	-14.26	-78.69	-45.45	-142.04	16.93
	-73.11	-10.44	-56.21	-32.59	-101.46	11.72
	-43.87	-6.61	-33.72	-19.73	-60.87	6.50
	-14.62	-2.79	-11.24	-6.87	-20.29	1.29
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.62	-1.04	-11.24	-5.99	-20.29	3.92
	-43.87	-4.86	-33.72	-18.85	-60.87	9.13
	-73.11	-8.69	-56.21	-31.71	-101.46	14.34
	-102.36	-12.51	-78.69	-44.57	-142.04	19.55
1.91	14.62	6.43	11.24	-2.61	20.29	
1.70	1.92	14.63	6.44	11.25	-2.59	20.31
	-102.44	-14.37	-78.77	-45.54	-142.15	16.81
	-73.17	-10.52	-56.26	-32.66	-101.53	11.62
	-43.90	-6.67	-33.76	-19.77	-60.92	6.43
	-14.63	-2.82	-11.25	-6.89	-20.31	1.24
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.63	-1.02	-11.25	-5.99	-20.31	3.95
	-43.90	-4.87	-33.76	-18.87	-60.92	9.13
	-73.17	-8.72	-56.26	-31.75	-101.53	14.32
	-102.44	-12.56	-78.77	-44.64	-142.15	19.51
1.92	14.63	6.44	11.25	-2.59	20.31	
1.75	1.93	14.65	6.45	11.26	-2.58	20.32
	-102.52	-14.47	-78.85	-45.63	-142.25	16.69
	-73.23	-10.60	-56.32	-32.73	-101.61	11.52
	-43.94	-6.73	-33.79	-19.82	-60.97	6.36
	-14.65	-2.86	-11.26	-6.92	-20.32	1.19
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.65	-1.01	-11.26	-5.99	-20.32	3.97
	-43.94	-4.88	-33.79	-18.89	-60.97	9.14
	-73.23	-8.75	-56.32	-31.80	-101.61	14.30
	-102.52	-12.62	-78.85	-44.70	-142.25	19.47
1.93	14.65	6.45	11.26	-2.58	20.32	
1.80	1.95	14.66	6.46	11.28	-2.57	20.34
	-102.60	-14.58	-78.93	-45.73	-142.36	16.57
	-73.28	-10.69	-56.38	-32.80	-101.69	11.42
	-43.97	-6.79	-33.83	-19.87	-61.01	6.28
	-14.66	-2.90	-11.28	-6.94	-20.34	1.14
	0.00	0.00	0.00	0.00	0.00	0.00

	-14.66	-0.99	-11.28	-5.99	-20.34	4.00
	-43.97	-4.89	-33.83	-18.92	-61.01	9.14
	-73.28	-8.78	-56.38	-31.84	-101.69	14.29
	-102.60	-12.67	-78.93	-44.77	-142.36	19.43
	1.95	14.66	6.46	11.28	-2.57	20.34
1.85	1.87	14.58	6.39	11.20	-2.65	20.23
	-102.06	-14.07	-78.39	-45.20	-141.64	17.06
	-72.90	-10.33	-56.00	-32.43	-101.17	11.77
	-43.74	-6.59	-33.60	-19.65	-60.70	6.47
	-14.58	-2.85	-11.20	-6.88	-20.23	1.18
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.58	-0.89	-11.20	-5.90	-20.23	4.12
	-43.74	-4.63	-33.60	-18.67	-60.70	9.41
	-72.90	-8.37	-56.00	-31.45	-101.17	14.71
	-102.06	-12.11	-78.39	-44.22	-141.64	20.00
	1.87	14.58	6.39	11.20	-2.65	20.23
1.90	1.88	14.59	6.40	11.21	-2.64	20.25
	-102.14	-14.18	-78.48	-45.30	-141.75	16.94
	-72.96	-10.41	-56.05	-32.50	-101.25	11.67
	-43.78	-6.65	-33.63	-19.70	-60.75	6.40
	-14.59	-2.89	-11.21	-6.90	-20.25	1.13
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.59	-0.87	-11.21	-5.90	-20.25	4.15
	-43.78	-4.64	-33.63	-18.69	-60.75	9.42
	-72.96	-8.40	-56.05	-31.49	-101.25	14.69
	-102.14	-12.16	-78.48	-44.29	-141.75	19.96
	1.88	14.59	6.40	11.21	-2.64	20.25
1.95	1.89	14.60	6.41	11.22	-2.62	20.27
	-102.22	-14.29	-78.56	-45.39	-141.86	16.82
	-73.02	-10.50	-56.11	-32.57	-101.33	11.57
	-43.81	-6.71	-33.67	-19.75	-60.80	6.32
	-14.60	-2.93	-11.22	-6.93	-20.27	1.07
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.60	-0.86	-11.22	-5.89	-20.27	4.17
	-43.81	-4.65	-33.67	-18.72	-60.80	9.42
	-73.02	-8.43	-56.11	-31.54	-101.33	14.67
	-102.22	-12.22	-78.56	-44.36	-141.86	19.92
	1.89	14.60	6.41	11.22	-2.62	20.27
2.00	1.90	14.61	6.42	11.23	-2.62	20.28
	-102.28	-14.37	-78.61	-45.46	-141.93	16.73
	-73.05	-10.56	-56.15	-32.62	-101.38	11.49
	-43.83	-6.76	-33.69	-19.79	-60.83	6.26
	-14.61	-2.96	-11.23	-6.95	-20.28	1.03
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.61	-0.84	-11.23	-5.89	-20.28	4.21

		-43.83	-4.64	-33.69	-18.73	-60.83	9.44
		-73.05	-8.44	-56.15	-31.56	-101.38	14.67
		-102.28	-12.25	-78.61	-44.40	-141.93	19.91
		1.90	14.61	6.42	11.23	-2.62	20.28
2.05		1.91	14.62	6.43	11.24	-2.60	20.29
		-102.36	-14.48	-78.69	-45.56	-142.05	16.60
		-73.11	-10.65	-56.21	-32.70	-101.46	11.39
		-43.87	-6.82	-33.73	-19.83	-60.88	6.18
		-14.62	-3.00	-11.24	-6.97	-20.29	0.98
		0.00	0.00	0.00	0.00	0.00	0.00
		-14.62	-0.83	-11.24	-5.89	-20.29	4.23
		-43.87	-4.65	-33.73	-18.75	-60.88	9.44
		-73.11	-8.48	-56.21	-31.61	-101.46	14.65
		-102.36	-12.30	-78.69	-44.47	-142.05	19.86
		1.91	14.62	6.43	11.24	-2.60	20.29
	2.10		1.92	14.63	6.44	11.25	-2.59
		-102.44	-14.59	-78.78	-45.65	-142.16	16.48
		-73.17	-10.74	-56.27	-32.77	-101.54	11.29
		-43.90	-6.89	-33.76	-19.88	-60.93	6.11
		-14.63	-3.04	-11.25	-7.00	-20.31	0.92
		0.00	0.00	0.00	0.00	0.00	0.00
		-14.63	-0.81	-11.25	-5.89	-20.31	4.26
		-43.90	-4.66	-33.76	-18.77	-60.93	9.45
		-73.17	-8.51	-56.27	-31.66	-101.54	14.63
		-102.44	-12.36	-78.78	-44.54	-142.16	19.82
		1.92	14.63	6.44	11.25	-2.59	20.31
2.15			1.93	14.64	6.45	11.26	-2.59
		-102.48	-14.65	-78.81	-45.70	-142.20	16.41
		-73.20	-10.79	-56.29	-32.81	-101.57	11.23
		-43.92	-6.93	-33.78	-19.91	-60.94	6.05
		-14.64	-3.07	-11.26	-7.02	-20.31	0.88
		0.00	0.00	0.00	0.00	0.00	0.00
		-14.64	-0.79	-11.26	-5.88	-20.31	4.30
		-43.92	-4.65	-33.78	-18.77	-60.94	9.47
		-73.20	-8.51	-56.29	-31.67	-101.57	14.65
		-102.48	-12.37	-78.81	-44.56	-142.20	19.83
		1.93	14.64	6.45	11.26	-2.59	20.31
	2.20		1.94	14.65	6.46	11.27	-2.58
		-102.56	-14.76	-78.90	-45.80	-142.32	16.28
		-73.26	-10.87	-56.35	-32.88	-101.66	11.13
		-43.96	-6.99	-33.81	-19.96	-60.99	5.98
		-14.65	-3.11	-11.27	-7.04	-20.33	0.83
		0.00	0.00	0.00	0.00	0.00	0.00
		-14.65	-0.78	-11.27	-5.88	-20.33	4.32
		-43.96	-4.66	-33.81	-18.80	-60.99	9.48

	-73.26	-8.54	-56.35	-31.71	-101.66	14.63
	-102.56	-12.43	-78.90	-44.63	-142.32	19.78
	1.94	14.65	6.46	11.27	-2.58	20.33
2.25	1.95	14.66	6.47	11.28	-2.56	20.35
	-102.65	-14.87	-78.98	-45.90	-142.44	16.16
	-73.32	-10.96	-56.42	-32.95	-101.74	11.03
	-43.99	-7.05	-33.85	-20.01	-61.04	5.90
	-14.66	-3.15	-11.28	-7.07	-20.35	0.77
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.66	-0.76	-11.28	-5.88	-20.35	4.35
	-43.99	-4.67	-33.85	-18.82	-61.04	9.48
	-73.32	-8.58	-56.42	-31.76	-101.74	14.61
	-102.65	-12.49	-78.98	-44.71	-142.44	19.73
	1.95	14.66	6.47	11.28	-2.56	20.35
	1.83	14.54	6.35	11.16	-2.68	20.19
2.30	-101.81	-14.06	-78.14	-45.07	-141.30	16.96
	-72.72	-10.39	-55.82	-32.37	-100.93	11.59
	-43.63	-6.72	-33.49	-19.66	-60.56	6.22
	-14.54	-3.05	-11.16	-6.96	-20.19	0.85
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.54	-0.62	-11.16	-5.74	-20.19	4.51
	-43.63	-4.28	-33.49	-18.45	-60.56	9.88
	-72.72	-7.95	-55.82	-31.15	-100.93	15.25
	-101.81	-11.62	-78.14	-43.85	-141.30	20.61
	1.83	14.54	6.35	11.16	-2.68	20.19
2.35	1.85	14.56	6.36	11.18	-2.67	20.20
	-101.89	-14.17	-78.23	-45.17	-141.42	16.83
	-72.78	-10.48	-55.88	-32.44	-101.01	11.49
	-43.67	-6.78	-33.53	-19.71	-60.61	6.15
	-14.56	-3.09	-11.18	-6.99	-20.20	0.80
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.56	-0.60	-11.18	-5.74	-20.20	4.54
	-43.67	-4.29	-33.53	-18.47	-60.61	9.88
	-72.78	-7.99	-55.88	-31.20	-101.01	15.23
	-101.89	-11.68	-78.23	-43.92	-141.42	20.57
1.85	14.56	6.36	11.18	-2.67	20.20	
2.40	1.86	14.57	6.38	11.19	-2.66	20.22
	-101.98	-14.28	-78.31	-45.27	-141.53	16.71
	-72.84	-10.56	-55.94	-32.52	-101.09	11.39
	-43.71	-6.85	-33.56	-19.76	-60.66	6.07
	-14.57	-3.13	-11.19	-7.01	-20.22	0.75
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.57	-0.59	-11.19	-5.74	-20.22	4.57
	-43.71	-4.30	-33.56	-18.49	-60.66	9.89
-72.84	-8.02	-55.94	-31.24	-101.09	15.20	

	-101.98	-11.74	-78.31	-43.99	-141.53	20.52
	1.86	14.57	6.38	11.19	-2.66	20.22
2.45	1.87	14.58	6.39	11.20	-2.65	20.23
	-102.06	-14.39	-78.40	-45.36	-141.64	16.58
	-72.90	-10.65	-56.00	-32.59	-101.17	11.29
	-43.74	-6.91	-33.60	-19.81	-60.70	5.99
	-14.58	-3.17	-11.20	-7.04	-20.23	0.70
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.58	-0.57	-11.20	-5.74	-20.23	4.59
	-43.74	-4.31	-33.60	-18.51	-60.70	9.89
	-72.90	-8.05	-56.00	-31.29	-101.17	15.18
	-102.06	-11.79	-78.40	-44.07	-141.64	20.48
	1.87	14.58	6.39	11.20	-2.65	20.23
2.50	1.88	14.59	6.40	11.21	-2.64	20.25
	-102.15	-14.50	-78.48	-45.46	-141.76	16.46
	-72.96	-10.74	-56.06	-32.66	-101.26	11.19
	-43.78	-6.97	-33.64	-19.86	-60.75	5.92
	-14.59	-3.21	-11.21	-7.06	-20.25	0.65
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.59	-0.56	-11.21	-5.74	-20.25	4.62
	-43.78	-4.32	-33.64	-18.54	-60.75	9.89
	-72.96	-8.09	-56.06	-31.34	-101.26	15.16
	-102.15	-11.85	-78.48	-44.14	-141.76	20.43
	1.88	14.59	6.40	11.21	-2.64	20.25
2.55	1.89	14.60	6.41	11.22	-2.62	20.27
	-102.23	-14.62	-78.57	-45.56	-141.88	16.33
	-73.02	-10.83	-56.12	-32.74	-101.34	11.09
	-43.81	-7.04	-33.67	-19.91	-60.80	5.84
	-14.60	-3.25	-11.22	-7.09	-20.27	0.60
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.60	-0.54	-11.22	-5.74	-20.27	4.65
	-43.81	-4.33	-33.67	-18.56	-60.80	9.90
	-73.02	-8.12	-56.12	-31.39	-101.34	15.14
	-102.23	-11.91	-78.57	-44.21	-141.88	20.39
	1.89	14.60	6.41	11.22	-2.62	20.27
2.60	1.85	14.56	6.37	11.18	-2.66	20.21
	-101.94	-14.35	-78.28	-45.28	-141.48	16.58
	-72.82	-10.64	-55.91	-32.54	-101.06	11.26
	-43.69	-6.94	-33.55	-19.80	-60.64	5.93
	-14.56	-3.23	-11.18	-7.06	-20.21	0.60
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.56	-0.48	-11.18	-5.68	-20.21	4.73
	-43.69	-4.18	-33.55	-18.42	-60.64	10.06
	-72.82	-7.89	-55.91	-31.16	-101.06	15.39
	-101.94	-11.59	-78.28	-43.91	-141.48	20.72

	1.85	14.56	6.37	11.18	-2.66	20.21
2.65	1.87	14.58	6.38	11.19	-2.65	20.23
	-102.03	-14.46	-78.36	-45.38	-141.59	16.46
	-72.88	-10.73	-55.97	-32.62	-101.14	11.16
	-43.73	-7.00	-33.58	-19.85	-60.68	5.85
	-14.58	-3.27	-11.19	-7.08	-20.23	0.55
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.58	-0.46	-11.19	-5.68	-20.23	4.76
	-43.73	-4.19	-33.58	-18.45	-60.68	10.06
	-72.88	-7.92	-55.97	-31.21	-101.14	15.37
	-102.03	-11.65	-78.36	-43.98	-141.59	20.67
	1.87	14.58	6.38	11.19	-2.65	20.23
2.70	1.88	14.59	6.39	11.21	-2.64	20.24
	-102.11	-14.57	-78.44	-45.48	-141.71	16.34
	-72.94	-10.82	-56.03	-32.69	-101.22	11.06
	-43.76	-7.06	-33.62	-19.90	-60.73	5.78
	-14.59	-3.31	-11.21	-7.11	-20.24	0.49
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.59	-0.45	-11.21	-5.68	-20.24	4.79
	-43.76	-4.20	-33.62	-18.47	-60.73	10.07
	-72.94	-7.95	-56.03	-31.26	-101.22	15.35
	-102.11	-11.71	-78.44	-44.05	-141.71	20.63
	1.88	14.59	6.39	11.21	-2.64	20.24
2.75	1.87	14.58	6.39	11.20	-2.64	20.24
	-102.09	-14.58	-78.42	-45.47	-141.68	16.32
	-72.92	-10.83	-56.02	-32.69	-101.20	11.03
	-43.75	-7.08	-33.61	-19.90	-60.72	5.74
	-14.58	-3.33	-11.20	-7.12	-20.24	0.46
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.58	-0.42	-11.20	-5.66	-20.24	4.83
	-43.75	-4.17	-33.61	-18.45	-60.72	10.12
	-72.92	-7.91	-56.02	-31.23	-101.20	15.40
	-102.09	-11.66	-78.42	-44.01	-141.68	20.69
	1.87	14.58	6.39	11.20	-2.64	20.24
2.80	1.89	14.60	6.40	11.22	-2.63	20.26
	-102.18	-14.69	-78.51	-45.57	-141.80	16.19
	-72.98	-10.92	-56.08	-32.76	-101.28	10.93
	-43.79	-7.14	-33.65	-19.95	-60.77	5.67
	-14.60	-3.37	-11.22	-7.15	-20.26	0.41
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.60	-0.40	-11.22	-5.66	-20.26	4.86
	-43.79	-4.18	-33.65	-18.47	-60.77	10.12
	-72.98	-7.95	-56.08	-31.28	-101.28	15.38
	-102.18	-11.72	-78.51	-44.09	-141.80	20.64
	1.89	14.60	6.40	11.22	-2.63	20.26

2.85	1.90	14.61	6.42	11.23	-2.62	20.27
	-102.26	-14.80	-78.59	-45.67	-141.91	16.07
	-73.04	-11.00	-56.14	-32.84	-101.36	10.83
	-43.83	-7.21	-33.68	-20.00	-60.82	5.59
	-14.61	-3.41	-11.23	-7.17	-20.27	0.35
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.61	-0.39	-11.23	-5.66	-20.27	4.88
	-43.83	-4.19	-33.68	-18.49	-60.82	10.12
	-73.04	-7.98	-56.14	-31.33	-101.36	15.36
	-102.26	-11.78	-78.59	-44.16	-141.91	20.60
	1.90	14.61	6.42	11.23	-2.62	20.27
2.90	1.91	14.62	6.43	11.24	-2.61	20.29
	-102.35	-14.91	-78.68	-45.77	-142.03	15.94
	-73.10	-11.09	-56.20	-32.91	-101.45	10.73
	-43.86	-7.27	-33.72	-20.05	-60.87	5.52
	-14.62	-3.45	-11.24	-7.20	-20.29	0.30
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.62	-0.37	-11.24	-5.66	-20.29	4.91
	-43.86	-4.20	-33.72	-18.52	-60.87	10.13
	-73.10	-8.02	-56.20	-31.37	-101.45	15.34
	-102.35	-11.84	-78.68	-44.23	-142.03	20.55
	1.91	14.62	6.43	11.24	-2.61	20.29
2.95	1.85	14.56	6.37	11.18	-2.67	20.21
	-101.92	-14.51	-78.25	-45.35	-141.45	16.33
	-72.80	-10.81	-55.89	-32.62	-101.03	11.00
	-43.68	-7.11	-33.54	-19.88	-60.62	5.66
	-14.56	-3.41	-11.18	-7.15	-20.21	0.32
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.56	-0.29	-11.18	-5.59	-20.21	5.01
	-43.68	-3.98	-33.54	-18.32	-60.62	10.35
	-72.80	-7.68	-55.89	-31.05	-101.03	15.69
	-101.92	-11.38	-78.25	-43.79	-141.45	21.02
	1.85	14.56	6.37	11.18	-2.67	20.21
3.00	1.86	14.57	6.38	11.19	-2.66	20.22
	-102.00	-14.62	-78.34	-45.45	-141.56	16.21
	-72.86	-10.90	-55.95	-32.69	-101.12	10.89
	-43.72	-7.17	-33.57	-19.93	-60.67	5.58
	-14.57	-3.45	-11.19	-7.17	-20.22	0.27
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.57	-0.27	-11.19	-5.58	-20.22	5.04
	-43.72	-3.99	-33.57	-18.34	-60.67	10.35
	-72.86	-7.72	-55.95	-31.10	-101.12	15.66
	-102.00	-11.44	-78.34	-43.86	-141.56	20.98
	1.86	14.57	6.38	11.19	-2.66	20.22
3.05	1.87	14.58	6.39	11.20	-2.64	20.24

	-102.09	-14.73	-78.42	-45.55	-141.68	16.08
	-72.92	-10.99	-56.02	-32.77	-101.20	10.79
	-43.75	-7.24	-33.61	-19.98	-60.72	5.51
	-14.58	-3.49	-11.20	-7.20	-20.24	0.22
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.58	-0.26	-11.20	-5.58	-20.24	5.07
	-43.75	-4.01	-33.61	-18.37	-60.72	10.36
	-72.92	-7.75	-56.02	-31.15	-101.20	15.64
	-102.09	-11.50	-78.42	-43.93	-141.68	20.93
	1.87	14.58	6.39	11.20	-2.64	20.24
3.10	1.89	14.60	6.40	11.22	-2.63	20.26
	-102.18	-14.85	-78.51	-45.65	-141.80	15.95
	-72.98	-11.07	-56.08	-32.84	-101.28	10.69
	-43.79	-7.30	-33.65	-20.03	-60.77	5.43
	-14.60	-3.53	-11.22	-7.23	-20.26	0.17
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.60	-0.24	-11.22	-5.58	-20.26	5.10
	-43.79	-4.02	-33.65	-18.39	-60.77	10.36
	-72.98	-7.79	-56.08	-31.20	-101.28	15.62
	-102.18	-11.56	-78.51	-44.01	-141.80	20.88
	1.89	14.60	6.40	11.22	-2.63	20.26
3.15	1.90	14.61	6.42	11.23	-2.62	20.27
	-102.26	-14.96	-78.59	-45.75	-141.91	15.83
	-73.04	-11.16	-56.14	-32.92	-101.37	10.59
	-43.83	-7.37	-33.68	-20.08	-60.82	5.35
	-14.61	-3.57	-11.23	-7.25	-20.27	0.11
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.61	-0.23	-11.23	-5.58	-20.27	5.12
	-43.83	-4.03	-33.68	-18.41	-60.82	10.36
	-73.04	-7.82	-56.14	-31.25	-101.37	15.60
	-102.26	-11.62	-78.59	-44.08	-141.91	20.84
	1.90	14.61	6.42	11.23	-2.62	20.27
3.20	1.91	14.62	6.43	11.24	-2.61	20.29
	-102.35	-15.07	-78.68	-45.85	-142.03	15.70
	-73.11	-11.25	-56.20	-32.99	-101.45	10.49
	-43.86	-7.43	-33.72	-20.13	-60.87	5.28
	-14.62	-3.61	-11.24	-7.28	-20.29	0.06
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.62	-0.22	-11.24	-5.58	-20.29	5.15
	-43.86	-4.04	-33.72	-18.44	-60.87	10.36
	-73.11	-7.86	-56.20	-31.30	-101.45	15.58
	-102.35	-11.68	-78.68	-44.15	-142.03	20.79
	1.91	14.62	6.43	11.24	-2.61	20.29
3.25	1.92	14.63	6.44	11.25	-2.59	20.31
	-102.44	-15.19	-78.77	-45.95	-142.15	15.57

	-73.17	-11.34	-56.26	-33.07	-101.53	10.39
	-43.90	-7.49	-33.76	-20.18	-60.92	5.20
	-14.63	-3.65	-11.25	-7.30	-20.31	0.01
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.63	-0.20	-11.25	-5.58	-20.31	5.18
	-43.90	-4.05	-33.76	-18.46	-60.92	10.37
	-73.17	-7.90	-56.26	-31.34	-101.53	15.55
	-102.44	-11.74	-78.77	-44.23	-142.15	20.74
	1.92	14.63	6.44	11.25	-2.59	20.31
3.30	1.94	14.65	6.45	11.27	-2.58	20.32
	-102.52	-15.30	-78.86	-46.05	-142.27	15.45
	-73.23	-11.43	-56.33	-33.14	-101.62	10.28
	-43.94	-7.56	-33.80	-20.24	-60.97	5.12
	-14.65	-3.69	-11.27	-7.33	-20.32	-0.04
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.65	-0.19	-11.27	-5.58	-20.32	5.21
	-43.94	-4.06	-33.80	-18.49	-60.97	10.37
	-73.23	-7.93	-56.33	-31.39	-101.62	15.53
	-102.52	-11.80	-78.86	-44.30	-142.27	20.69
	1.94	14.65	6.45	11.27	-2.58	20.32
3.35	1.95	14.66	6.47	11.28	-2.57	20.34
	-102.61	-15.42	-78.94	-46.15	-142.38	15.32
	-73.29	-11.52	-56.39	-33.22	-101.70	10.18
	-43.98	-7.62	-33.83	-20.29	-61.02	5.04
	-14.66	-3.72	-11.28	-7.35	-20.34	-0.09
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.66	-0.17	-11.28	-5.58	-20.34	5.23
	-43.98	-4.07	-33.83	-18.51	-61.02	10.37
	-73.29	-7.97	-56.39	-31.44	-101.70	15.51
	-102.61	-11.86	-78.94	-44.38	-142.38	20.65
	1.95	14.66	6.47	11.28	-2.57	20.34
3.40	1.96	14.67	6.48	11.29	-2.56	20.36
	-102.70	-15.53	-79.03	-46.25	-142.50	15.19
	-73.36	-11.61	-56.45	-33.29	-101.79	10.08
	-44.01	-7.69	-33.87	-20.34	-61.07	4.97
	-14.67	-3.76	-11.29	-7.38	-20.36	-0.15
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.67	-0.16	-11.29	-5.58	-20.36	5.26
	-44.01	-4.08	-33.87	-18.54	-61.07	10.37
	-73.36	-8.00	-56.45	-31.49	-101.79	15.48
	-102.70	-11.93	-79.03	-44.45	-142.50	20.60
	1.96	14.67	6.48	11.29	-2.56	20.36
3.45	1.97	14.68	6.49	11.30	-2.54	20.37
	-102.79	-15.65	-79.12	-46.35	-142.62	15.06
	-73.42	-11.70	-56.51	-33.37	-101.87	9.98

	-44.05	-7.75	-33.91	-20.39	-61.12	4.89
	-14.68	-3.80	-11.30	-7.41	-20.37	-0.20
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.68	-0.15	-11.30	-5.58	-20.37	5.29
	-44.05	-4.09	-33.91	-18.56	-61.12	10.37
	-73.42	-8.04	-56.51	-31.54	-101.87	15.46
	-102.79	-11.99	-79.12	-44.53	-142.62	20.55
	1.97	14.68	6.49	11.30	-2.54	20.37
3.50	1.99	14.70	6.50	11.32	-2.53	20.39
	-102.88	-15.76	-79.21	-46.46	-142.74	14.94
	-73.48	-11.79	-56.58	-33.45	-101.96	9.87
	-44.09	-7.81	-33.95	-20.44	-61.18	4.81
	-14.70	-3.84	-11.32	-7.43	-20.39	-0.25
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.70	-0.13	-11.32	-5.58	-20.39	5.31
	-44.09	-4.10	-33.95	-18.58	-61.18	10.38
	-73.48	-8.08	-56.58	-31.59	-101.96	15.44
	-102.88	-12.05	-79.21	-44.60	-142.74	20.50
	1.99	14.70	6.50	11.32	-2.53	20.39
3.55	2.00	14.71	6.52	11.33	-2.52	20.41
	-102.97	-15.88	-79.30	-46.56	-142.86	14.81
	-73.55	-11.88	-56.64	-33.52	-102.04	9.77
	-44.13	-7.88	-33.98	-20.49	-61.23	4.73
	-14.71	-3.88	-11.33	-7.46	-20.41	-0.30
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.71	-0.12	-11.33	-5.58	-20.41	5.34
	-44.13	-4.12	-33.98	-18.61	-61.23	10.38
	-73.55	-8.11	-56.64	-31.64	-102.04	15.41
	-102.97	-12.11	-79.30	-44.68	-142.86	20.45
	2.00	14.71	6.52	11.33	-2.52	20.41
3.60	2.01	14.72	6.53	11.34	-2.51	20.43
	-103.05	-15.99	-79.39	-46.66	-142.98	14.68
	-73.61	-11.97	-56.71	-33.60	-102.13	9.67
	-44.17	-7.94	-34.02	-20.54	-61.28	4.66
	-14.72	-3.92	-11.34	-7.48	-20.43	-0.36
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.72	-0.10	-11.34	-5.58	-20.43	5.37
	-44.17	-4.13	-34.02	-18.63	-61.28	10.38
	-73.61	-8.15	-56.71	-31.69	-102.13	15.39
	-103.05	-12.17	-79.39	-44.75	-142.98	20.40
	2.01	14.72	6.53	11.34	-2.51	20.43
3.65	2.02	14.73	6.54	11.35	-2.49	20.44
	-103.14	-16.11	-79.48	-46.76	-143.10	14.55
	-73.67	-12.06	-56.77	-33.68	-102.22	9.56
	-44.20	-8.01	-34.06	-20.59	-61.33	4.58

	-14.73	-3.96	-11.35	-7.51	-20.44	-0.41
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.73	-0.09	-11.35	-5.57	-20.44	5.39
	-44.20	-4.14	-34.06	-18.66	-61.33	10.38
	-73.67	-8.19	-56.77	-31.74	-102.22	15.37
	-103.14	-12.24	-79.48	-44.83	-143.10	20.35
	2.02	14.73	6.54	11.35	-2.49	20.44
3.70	2.04	14.75	6.55	11.37	-2.48	20.46
	-103.23	-16.22	-79.57	-46.87	-143.22	14.42
	-73.74	-12.15	-56.83	-33.76	-102.30	9.46
	-44.24	-8.07	-34.10	-20.65	-61.38	4.50
	-14.75	-4.00	-11.37	-7.54	-20.46	-0.46
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.75	-0.08	-11.37	-5.57	-20.46	5.42
	-44.24	-4.15	-34.10	-18.68	-61.38	10.38
	-73.74	-8.23	-56.83	-31.79	-102.30	15.34
	-103.23	-12.30	-79.57	-44.90	-143.22	20.30
	2.04	14.75	6.55	11.37	-2.48	20.46
3.75	2.04	14.75	6.56	11.37	-2.47	20.47
	-103.28	-16.30	-79.61	-46.93	-143.29	14.33
	-73.77	-12.21	-56.87	-33.80	-102.35	9.39
	-44.26	-8.12	-34.12	-20.68	-61.41	4.44
	-14.75	-4.03	-11.37	-7.56	-20.47	-0.51
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.75	-0.06	-11.37	-5.57	-20.47	5.45
	-44.26	-4.15	-34.12	-18.69	-61.41	10.40
	-73.77	-8.23	-56.87	-31.82	-102.35	15.35
	-103.28	-12.32	-79.61	-44.94	-143.29	20.29
	2.04	14.75	6.56	11.37	-2.47	20.47
3.80	2.06	14.77	6.57	11.39	-2.46	20.49
	-103.37	-16.41	-79.70	-47.03	-143.41	14.20
	-73.84	-12.30	-56.93	-33.88	-102.43	9.28
	-44.30	-8.19	-34.16	-20.73	-61.46	4.36
	-14.77	-4.07	-11.39	-7.58	-20.49	-0.56
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.77	-0.04	-11.39	-5.57	-20.49	5.48
	-44.30	-4.16	-34.16	-18.72	-61.46	10.40
	-73.84	-8.27	-56.93	-31.87	-102.43	15.32
	-103.37	-12.39	-79.70	-45.02	-143.41	20.24
	2.06	14.77	6.57	11.39	-2.46	20.49
3.85	2.07	14.78	6.59	11.40	-2.45	20.50
	-103.46	-16.53	-79.79	-47.13	-143.53	14.07
	-73.90	-12.39	-57.00	-33.96	-102.52	9.18
	-44.34	-8.25	-34.20	-20.78	-61.51	4.28
	-14.78	-4.11	-11.40	-7.61	-20.50	-0.61

	0.00	0.00	0.00	0.00	0.00	0.00
	-14.78	-0.03	-11.40	-5.57	-20.50	5.51
	-44.34	-4.17	-34.20	-18.74	-61.51	10.40
	-73.90	-8.31	-57.00	-31.92	-102.52	15.30
	-103.46	-12.45	-79.79	-45.09	-143.53	20.19
	2.07	14.78	6.59	11.40	-2.45	20.50
3.90	2.08	14.79	6.60	11.41	-2.43	20.52
	-103.55	-16.65	-79.88	-47.24	-143.65	13.94
	-73.96	-12.48	-57.06	-34.03	-102.61	9.07
	-44.38	-8.32	-34.24	-20.83	-61.56	4.20
	-14.79	-4.15	-11.41	-7.63	-20.52	-0.67
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.79	-0.02	-11.41	-5.57	-20.52	5.54
	-44.38	-4.18	-34.24	-18.77	-61.56	10.41
	-73.96	-8.35	-57.06	-31.97	-102.61	15.27
	-103.55	-12.51	-79.88	-45.17	-143.65	20.14
2.08	14.79	6.60	11.41	-2.43	20.52	
3.95	2.10	14.81	6.61	11.42	-2.42	20.54
	-103.64	-16.76	-79.97	-47.34	-143.77	13.81
	-74.03	-12.57	-57.12	-34.11	-102.69	8.97
	-44.42	-8.38	-34.27	-20.89	-61.62	4.13
	-14.81	-4.19	-11.42	-7.66	-20.54	-0.72
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.81	0.00	-11.42	-5.57	-20.54	5.56
	-44.42	-4.19	-34.27	-18.79	-61.62	10.41
	-74.03	-8.38	-57.12	-32.02	-102.69	15.25
	-103.64	-12.58	-79.97	-45.25	-143.77	20.09
2.10	14.81	6.61	11.42	-2.42	20.54	
4.00	2.11	14.82	6.63	11.44	-2.41	20.56
	-103.73	-16.88	-80.06	-47.44	-143.89	13.68
	-74.09	-12.66	-57.19	-34.19	-102.78	8.87
	-44.46	-8.45	-34.31	-20.94	-61.67	4.05
	-14.82	-4.23	-11.44	-7.69	-20.56	-0.77
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.82	0.01	-11.44	-5.57	-20.56	5.59
	-44.46	-4.21	-34.31	-18.82	-61.67	10.41
	-74.09	-8.42	-57.19	-32.07	-102.78	15.23
	-103.73	-12.64	-80.06	-45.32	-143.89	20.04
2.11	14.82	6.63	11.44	-2.41	20.56	
4.05	2.12	14.83	6.64	11.45	-2.40	20.57
	-103.82	-17.00	-80.15	-47.55	-144.02	13.55
	-74.16	-12.75	-57.25	-34.27	-102.87	8.76
	-44.49	-8.51	-34.35	-20.99	-61.72	3.97
	-14.83	-4.27	-11.45	-7.71	-20.57	-0.82
	0.00	0.00	0.00	0.00	0.00	0.00

	-14.83	0.03	-11.45	-5.57	-20.57	5.62
	-44.49	-4.22	-34.35	-18.84	-61.72	10.41
	-74.16	-8.46	-57.25	-32.12	-102.87	15.20
	-103.82	-12.70	-80.15	-45.40	-144.02	19.99
	2.12	14.83	6.64	11.45	-2.40	20.57
4.10	2.13	14.84	6.65	11.46	-2.38	20.59
	-103.91	-17.11	-80.24	-47.65	-144.14	13.42
	-74.22	-12.84	-57.32	-34.35	-102.96	8.66
	-44.53	-8.58	-34.39	-21.04	-61.77	3.89
	-14.84	-4.31	-11.46	-7.74	-20.59	-0.88
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.84	0.04	-11.46	-5.57	-20.59	5.64
	-44.53	-4.23	-34.39	-18.87	-61.77	10.41
	-74.22	-8.50	-57.32	-32.17	-102.96	15.18
	-103.91	-12.77	-80.24	-45.48	-144.14	19.94
	2.13	14.84	6.65	11.46	-2.38	20.59
4.15	2.15	14.86	6.66	11.48	-2.37	20.61
	-104.00	-17.23	-80.34	-47.75	-144.26	13.29
	-74.29	-12.94	-57.38	-34.42	-103.04	8.55
	-44.57	-8.64	-34.43	-21.09	-61.83	3.81
	-14.86	-4.35	-11.48	-7.76	-20.61	-0.93
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.86	0.05	-11.48	-5.57	-20.61	5.67
	-44.57	-4.24	-34.43	-18.90	-61.83	10.41
	-74.29	-8.54	-57.38	-32.22	-103.04	15.15
	-104.00	-12.83	-80.34	-45.55	-144.26	19.89
	2.15	14.86	6.66	11.48	-2.37	20.61
4.20	2.16	14.87	6.68	11.49	-2.36	20.63
	-104.09	-17.35	-80.43	-47.86	-144.39	13.16
	-74.35	-13.03	-57.45	-34.50	-103.13	8.45
	-44.61	-8.71	-34.47	-21.15	-61.88	3.73
	-14.87	-4.39	-11.49	-7.79	-20.63	-0.98
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.87	0.07	-11.49	-5.56	-20.63	5.70
	-44.61	-4.26	-34.47	-18.92	-61.88	10.41
	-74.35	-8.58	-57.45	-32.28	-103.13	15.13
	-104.09	-12.90	-80.43	-45.63	-144.39	19.84
	2.16	14.87	6.68	11.49	-2.36	20.63
4.25	2.17	14.88	6.69	11.50	-2.34	20.64
	-104.18	-17.47	-80.52	-47.96	-144.51	13.03
	-74.42	-13.12	-57.51	-34.58	-103.22	8.34
	-44.65	-8.77	-34.51	-21.20	-61.93	3.65
	-14.88	-4.43	-11.50	-7.82	-20.64	-1.03
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.88	0.08	-11.50	-5.56	-20.64	5.72

	-44.65	-4.27	-34.51	-18.95	-61.93	10.41
	-74.42	-8.61	-57.51	-32.33	-103.22	15.10
	-104.18	-12.96	-80.52	-45.71	-144.51	19.79
	2.17	14.88	6.69	11.50	-2.34	20.64
4.30	2.19	14.90	6.70	11.52	-2.33	20.66
	-104.28	-17.58	-80.61	-48.07	-144.63	12.90
	-74.48	-13.21	-57.58	-34.66	-103.31	8.24
	-44.69	-8.84	-34.55	-21.25	-61.98	3.57
	-14.90	-4.47	-11.52	-7.84	-20.66	-1.09
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.90	0.09	-11.52	-5.56	-20.66	5.75
	-44.69	-4.28	-34.55	-18.97	-61.98	10.41
	-74.48	-8.65	-57.58	-32.38	-103.31	15.07
	-104.28	-13.03	-80.61	-45.79	-144.63	19.74
	2.19	14.90	6.70	11.52	-2.33	20.66
	4.35	2.20	14.91	6.72	11.53	-2.32
-104.37		-17.70	-80.70	-48.17	-144.76	12.77
-74.55		-13.30	-57.64	-34.74	-103.40	8.13
-44.73		-8.90	-34.59	-21.30	-62.04	3.50
-14.91		-4.51	-11.53	-7.87	-20.68	-1.14
0.00		0.00	0.00	0.00	0.00	0.00
-14.91		0.11	-11.53	-5.56	-20.68	5.78
-44.73		-4.29	-34.59	-19.00	-62.04	10.41
-74.55		-8.69	-57.64	-32.43	-103.40	15.05
-104.37		-13.09	-80.70	-45.87	-144.76	19.68
2.20	14.91	6.72	11.53	-2.32	20.68	
4.40	2.21	14.92	6.73	11.54	-2.30	20.70
	-104.46	-17.82	-80.79	-48.28	-144.88	12.64
	-74.61	-13.40	-57.71	-34.82	-103.48	8.03
	-44.77	-8.97	-34.63	-21.36	-62.09	3.42
	-14.92	-4.54	-11.54	-7.90	-20.70	-1.19
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.92	0.12	-11.54	-5.56	-20.70	5.80
	-44.77	-4.31	-34.63	-19.02	-62.09	10.41
	-74.61	-8.73	-57.71	-32.48	-103.48	15.02
	-104.46	-13.16	-80.79	-45.95	-144.88	19.63
2.21	14.92	6.73	11.54	-2.30	20.70	
4.45	2.23	14.94	6.74	11.55	-2.29	20.71
	-104.55	-17.94	-80.88	-48.38	-145.00	12.51
	-74.68	-13.49	-57.77	-34.90	-103.57	7.92
	-44.81	-9.04	-34.66	-21.41	-62.14	3.34
	-14.94	-4.58	-11.55	-7.92	-20.71	-1.25
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.94	0.13	-11.55	-5.56	-20.71	5.83
	-44.81	-4.32	-34.66	-19.05	-62.14	10.41

	-74.68	-8.77	-57.77	-32.54	-103.57	15.00
	-104.55	-13.22	-80.88	-46.02	-145.00	19.58
	2.23	14.94	6.74	11.55	-2.29	20.71
4.50	2.24	14.95	6.76	11.57	-2.28	20.73
	-104.64	-18.06	-80.98	-48.49	-145.13	12.37
	-74.75	-13.58	-57.84	-34.97	-103.66	7.82
	-44.85	-9.10	-34.70	-21.46	-62.20	3.26
	-14.95	-4.62	-11.57	-7.95	-20.73	-1.30
	0.00	0.00	0.00	0.00	0.00	0.00
	-14.95	0.15	-11.57	-5.56	-20.73	5.86
	-44.85	-4.33	-34.70	-19.08	-62.20	10.41
	-74.75	-8.81	-57.84	-32.59	-103.66	14.97
	-104.64	-13.29	-80.98	-46.10	-145.13	19.53
	2.24	14.95	6.76	11.57	-2.28	20.73

En la Tabla 8 se muestran las combinaciones de esfuerzos para las diagonales en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 8. Combinación de esfuerzos de las diagonales - 10 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Mín (KN)	Máx(KN)	Mín (KN)	Máx(KN)	Mín (KN)	Máx(KN)
0.50	229.46	922.42	475.53	737.66	-16.61	1275.40
	178.83	717.44	370.03	573.74	-12.38	991.97
	128.19	512.46	264.54	409.81	-8.15	708.55
	77.56	307.47	159.05	245.89	-3.93	425.13
	26.93	102.49	53.55	81.96	0.30	141.71
	23.04	99.59	50.47	79.64	-4.40	137.70
	72.24	298.77	152.98	238.93	-8.51	413.10
	121.44	497.95	255.49	398.21	-12.61	688.50
	170.64	697.13	357.99	557.50	-16.72	963.89
	219.84	896.31	460.50	716.78	-20.83	1239.29
0.55	187.71	820.20	412.29	651.53	-36.86	1134.78
	146.36	637.94	320.85	506.74	-28.13	882.60
	105.00	455.67	229.41	361.96	-19.40	630.43
	63.65	273.40	137.97	217.18	-10.67	378.26
	22.29	91.13	46.53	72.39	-1.94	126.09
	18.47	88.32	43.52	70.15	-6.58	122.19
	58.55	264.95	132.14	210.46	-15.04	366.56
	98.63	441.58	220.75	350.77	-23.50	610.94
	138.70	618.21	309.36	491.08	-31.96	855.32
	178.78	794.84	397.97	631.38	-40.42	1099.69
0.60	158.82	741.06	365.53	585.75	-47.89	1025.75
	123.89	576.38	284.48	455.58	-36.71	797.80

	88.96	411.70	203.43	325.41	-25.52	569.86
	54.02	247.02	122.38	195.25	-14.34	341.92
	19.09	82.34	41.34	65.08	-3.16	113.97
	15.31	79.58	38.38	62.90	-7.76	110.16
	49.08	238.75	116.72	188.71	-18.57	330.47
	82.84	397.92	195.06	314.52	-29.37	550.79
	116.60	557.08	273.39	440.33	-40.18	771.10
	150.37	716.25	351.73	566.14	-50.99	991.41
0.65	142.99	682.84	334.64	538.80	-48.65	945.32
	111.58	531.10	260.45	419.07	-37.29	735.25
	80.17	379.35	186.27	299.33	-25.94	525.18
	48.75	227.61	112.09	179.60	-14.58	315.11
	17.34	75.87	37.91	59.87	-3.23	105.04
	13.57	73.14	34.97	57.71	-7.83	101.26
	43.85	219.43	106.49	173.14	-18.78	303.77
	74.14	365.71	178.00	288.57	-29.72	506.29
	104.42	511.99	249.51	403.99	-40.67	708.80
	134.71	658.28	321.03	519.42	-51.61	911.31
0.70	122.95	626.58	301.72	492.17	-55.82	867.79
	95.99	487.34	234.85	382.80	-42.87	674.95
	69.03	348.10	167.98	273.43	-29.92	482.11
	42.07	208.86	101.12	164.06	-16.97	289.26
	15.12	69.62	34.25	54.69	-4.02	96.42
	11.39	66.95	31.36	52.59	-8.59	92.72
	37.31	200.84	95.66	157.76	-21.04	278.15
	63.23	334.73	159.96	262.93	-33.50	463.59
	89.15	468.62	224.25	368.10	-45.95	649.03
	115.07	602.51	288.55	473.27	-58.40	834.46
0.75	109.88	582.23	277.53	456.14	-57.77	806.57
	85.83	452.85	216.04	354.78	-44.38	627.33
	61.78	323.46	154.55	253.41	-31.00	448.09
	37.72	194.08	93.06	152.05	-17.61	268.86
	13.67	64.69	31.57	50.68	-4.22	89.62
	9.96	62.05	28.70	48.62	-8.79	85.96
	33.03	186.16	87.68	145.85	-21.63	257.89
	56.10	310.27	146.67	243.08	-34.47	429.82
	79.17	434.38	205.65	340.31	-47.31	601.75
	102.24	558.49	264.63	437.54	-60.15	773.68
0.80	99.51	544.59	257.46	425.76	-58.45	754.58
	77.76	423.57	200.43	331.14	-44.91	586.89
	56.02	302.55	143.40	236.53	-31.37	419.21
	34.27	181.53	86.37	141.92	-17.83	251.53
	12.53	60.51	29.34	47.31	-4.29	83.84
	8.82	57.90	26.49	45.27	-8.86	80.23
	29.63	173.71	81.07	135.80	-21.81	240.69

	50.43	289.52	135.64	226.34	-34.77	401.15	
	71.24	405.32	190.21	316.88	-47.73	561.60	
	92.05	521.13	244.79	407.41	-60.69	722.06	
0.85	89.91	511.03	239.35	398.57	-59.53	708.23	
	70.30	397.47	186.34	310.00	-45.75	550.84	
	50.69	283.91	133.34	221.43	-31.96	393.46	
	31.08	170.34	80.34	132.86	-18.18	236.08	
	11.47	56.78	27.33	44.29	-4.39	78.69	
	7.77	54.21	24.51	42.28	-8.96	75.12	
	26.49	162.62	75.11	126.83	-22.12	225.37	
	45.21	271.04	125.71	211.39	-35.28	375.62	
	63.93	379.45	176.31	295.94	-48.44	525.87	
	82.65	487.86	226.91	380.50	-61.60	676.12	
	0.90	81.11	481.02	223.01	374.19	-60.79	666.79
		63.46	374.12	173.64	291.04	-46.72	518.61
45.80		267.23	124.26	207.89	-32.66	370.44	
28.15		160.34	74.89	124.73	-18.59	222.26	
10.50		53.45	25.52	41.58	-4.52	74.09	
6.81		50.91	22.72	39.60	-9.09	70.57	
23.62		152.72	69.74	118.81	-22.49	211.70	
40.44		254.54	116.77	198.01	-35.89	352.84	
57.25		356.35	163.79	277.21	-49.29	493.98	
74.06		458.17	210.82	356.42	-62.69	635.11	
0.95	77.48	458.49	212.66	356.69	-57.70	635.56	
	60.64	356.60	165.59	277.42	-44.32	494.32	
	43.79	254.72	118.52	198.16	-30.93	353.09	
	26.95	152.83	71.45	118.90	-17.55	211.85	
	10.11	50.94	24.38	39.63	-4.17	70.62	
	6.40	48.42	21.57	37.67	-8.76	67.11	
	22.41	145.25	66.30	113.00	-21.48	201.34	
	38.42	242.08	111.04	188.33	-34.20	335.57	
	54.42	338.91	155.77	263.66	-46.92	469.80	
	70.43	435.74	200.51	338.99	-59.64	604.02	
1.00	68.62	432.70	197.78	335.40	-60.54	600.01	
	53.75	336.54	154.02	260.87	-46.52	466.67	
	38.88	240.39	110.26	186.33	-32.50	333.34	
	24.00	144.23	66.49	111.80	-18.48	200.00	
	9.13	48.08	22.73	37.27	-4.47	66.67	
	5.45	45.59	19.95	35.34	-9.06	63.22	
	19.55	136.78	61.45	106.03	-22.35	189.67	
	33.65	227.97	102.95	176.71	-35.64	316.12	
	47.76	319.16	144.46	247.39	-48.94	442.57	
	61.86	410.35	185.96	318.08	-62.23	569.02	
1.05	66.14	414.97	189.88	321.73	-57.59	575.41	
	51.82	322.75	147.87	250.23	-44.23	447.54	

	37.51	230.54	105.87	178.74	-30.86	319.67
	23.19	138.32	63.86	107.24	-17.49	191.80
	8.87	46.11	21.86	35.75	-4.13	63.93
	5.16	43.64	19.07	33.83	-8.75	60.51
	18.71	130.91	58.82	101.49	-21.40	181.52
	32.27	218.18	98.58	169.15	-34.05	302.53
	45.82	305.45	138.33	236.82	-46.70	423.55
	59.37	392.72	178.09	304.48	-59.35	544.56
1.10	60.23	395.25	179.06	305.68	-58.60	548.20
	47.22	307.42	139.46	237.75	-45.01	426.37
	34.22	219.58	99.86	169.82	-31.41	304.55
	21.22	131.75	60.26	101.89	-17.82	182.73
	8.22	43.92	20.66	33.96	-4.22	60.91
	4.52	41.48	17.89	32.08	-8.85	57.53
	16.80	124.44	55.29	96.24	-21.69	172.59
	29.08	207.40	92.69	160.39	-34.53	287.65
	41.36	290.35	130.10	224.55	-47.37	402.71
	53.64	373.31	167.50	288.71	-60.21	517.77
1.15	58.34	380.83	172.71	294.59	-56.03	528.18
	45.76	296.20	134.52	229.12	-43.01	410.81
	33.18	211.57	96.34	163.66	-29.98	293.43
	20.60	126.94	58.15	98.20	-16.95	176.06
	8.02	42.31	19.96	32.73	-3.92	58.69
	4.30	39.89	17.19	30.86	-8.58	55.32
	16.16	119.67	53.18	92.57	-20.86	165.97
	28.02	199.44	89.18	154.28	-33.14	276.61
	39.88	279.22	125.18	215.99	-45.43	387.26
	51.74	359.00	161.18	277.70	-57.71	497.90
1.20	55.00	366.06	165.31	282.85	-55.31	507.74
	43.16	284.71	128.77	219.99	-42.44	394.91
	31.33	203.36	92.22	157.14	-29.57	282.08
	19.49	122.02	55.68	94.28	-16.70	169.25
	7.66	40.67	19.14	31.43	-3.83	56.42
	3.93	38.27	16.37	29.57	-8.51	53.08
	15.07	114.81	50.76	88.71	-20.62	159.25
	26.20	191.35	85.14	147.86	-32.73	265.41
	37.34	267.89	119.52	207.00	-44.84	371.58
	48.48	344.43	153.90	266.14	-56.95	477.74
1.25	51.74	352.34	158.33	271.91	-54.84	488.77
	40.63	274.04	123.34	211.49	-42.07	380.15
	29.52	195.74	88.35	151.06	-29.30	271.54
	18.41	117.45	53.36	90.64	-16.53	162.92
	7.31	39.15	18.37	30.21	-3.76	54.31
	3.57	36.77	15.61	28.38	-8.46	51.01
	14.01	110.31	48.47	85.13	-20.46	153.02

	24.44	183.85	81.34	141.88	-32.46	255.04	
	34.88	257.39	114.20	198.64	-44.45	357.05	
	45.31	330.93	147.07	255.39	-56.45	459.07	
1.30	48.39	339.38	151.56	261.50	-54.78	470.86	
	38.03	263.96	118.08	203.39	-42.02	366.22	
	27.67	188.54	84.59	145.28	-29.26	261.59	
	17.31	113.13	51.11	87.17	-16.50	156.95	
	6.94	37.71	17.62	29.06	-3.74	52.32	
	3.20	35.36	14.87	27.24	-8.46	49.05	
	12.92	106.07	46.27	81.73	-20.43	147.16	
	22.64	176.78	77.66	136.22	-32.39	245.27	
	32.35	247.50	109.06	190.71	-44.36	343.38	
	42.07	318.21	140.46	245.20	-56.32	441.49	
	1.35	47.16	329.30	147.18	253.77	-52.87	456.86
		37.07	256.12	114.67	197.38	-40.53	355.34
26.99		182.94	82.16	140.98	-28.19	253.81	
16.90		109.77	49.65	84.59	-15.85	152.29	
6.82		36.59	17.14	28.20	-3.51	50.76	
3.06		34.25	14.38	26.40	-8.27	47.52	
12.50		102.75	44.82	79.19	-19.82	142.56	
21.94		171.25	75.25	131.98	-31.37	237.59	
31.38		239.75	105.68	184.77	-42.92	332.63	
40.82		308.25	136.11	237.56	-54.47	427.67	
1.40	46.11	320.08	143.23	246.73	-51.01	444.07	
	36.26	248.95	111.60	191.90	-39.07	345.39	
	26.41	177.82	79.97	137.07	-27.14	246.71	
	16.56	106.69	48.34	82.24	-15.21	148.02	
	6.71	35.56	16.71	27.41	-3.28	49.34	
	2.93	33.24	13.95	25.62	-8.08	46.12	
	12.14	99.72	43.51	76.87	-19.23	138.35	
	21.34	166.20	73.07	128.11	-30.39	230.58	
	30.55	232.68	102.63	179.36	-41.54	322.81	
	39.75	299.16	132.20	230.60	-52.69	415.04	
1.45	45.15	311.56	139.58	240.21	-49.27	432.24	
	35.52	242.32	108.76	186.83	-37.72	336.18	
	25.89	173.09	77.95	133.45	-26.17	240.13	
	16.25	103.85	47.13	80.07	-14.62	144.08	
	6.62	34.62	16.31	26.69	-3.07	48.03	
	2.81	32.31	13.54	24.91	-7.91	44.82	
	11.80	96.92	42.30	74.73	-18.69	134.46	
	20.79	161.53	71.06	124.54	-29.47	224.10	
	29.79	226.14	99.82	174.36	-40.25	313.74	
	38.78	290.76	128.58	224.18	-51.03	403.38	
1.50	43.26	302.64	135.19	233.16	-48.68	419.90	
	34.05	235.39	105.35	181.35	-37.25	326.59	

	24.84	168.13	75.51	129.53	-25.83	233.28
	15.63	100.88	45.67	77.72	-14.41	139.97
	6.42	33.63	15.83	25.91	-2.99	46.66
	2.60	31.34	13.06	24.14	-7.86	43.48
	11.18	94.01	40.87	72.43	-18.50	130.43
	19.76	156.69	68.67	120.71	-29.15	217.39
	28.34	219.36	96.48	169.00	-39.79	304.35
	36.93	282.03	124.29	217.28	-50.44	391.30
1.55	40.70	293.56	130.31	225.81	-48.91	407.35
	32.06	228.32	101.55	175.63	-37.43	316.83
	23.42	163.09	72.80	125.45	-25.95	226.30
	14.78	97.85	44.05	75.27	-14.48	135.78
	6.15	32.62	15.29	25.09	-3.00	45.26
	2.32	30.36	12.53	23.35	-7.89	42.12
	10.36	91.07	39.29	70.05	-18.58	126.37
	18.39	151.78	66.05	116.75	-29.26	210.61
	26.43	212.49	92.81	163.45	-39.94	294.85
	34.47	273.20	119.57	210.15	-50.63	379.10
1.60	40.01	286.79	127.45	220.65	-47.44	397.95
	31.53	223.06	99.34	171.62	-36.28	309.51
	23.05	159.33	71.22	122.58	-25.13	221.08
	14.57	95.60	43.10	73.55	-13.97	132.65
	6.08	31.87	14.98	24.52	-2.81	44.22
	2.23	29.62	12.21	22.79	-7.75	41.10
	10.11	88.85	38.35	68.36	-18.12	123.29
	17.99	148.09	64.48	113.94	-28.49	205.48
	25.88	207.32	90.61	159.51	-38.86	287.68
	33.76	266.55	116.75	205.08	-49.23	369.87
1.65	38.41	279.51	123.83	214.88	-47.02	387.87
	30.29	217.39	96.52	167.13	-35.95	301.68
	22.16	155.28	69.21	119.38	-24.88	215.48
	14.04	93.17	41.90	71.63	-13.81	129.29
	5.92	31.06	14.58	23.88	-2.75	43.10
	2.05	28.83	11.82	22.16	-7.72	40.01
	9.59	86.49	37.17	66.49	-18.00	120.02
	17.13	144.15	62.52	110.82	-28.27	200.04
	24.67	201.81	87.88	155.15	-38.55	280.05
	32.21	259.47	113.23	199.48	-48.82	360.07
1.70	37.84	273.62	121.37	210.41	-45.70	379.70
	29.85	212.82	94.61	163.65	-34.92	295.32
	21.85	152.01	67.85	116.89	-24.14	210.94
	13.86	91.21	41.08	70.14	-13.36	126.57
	5.87	30.40	14.32	23.38	-2.58	42.19
	1.97	28.19	11.54	21.68	-7.60	39.12
	9.38	84.57	36.36	65.03	-17.60	117.36

	16.79	140.95	61.17	108.39	-27.59	195.60
	24.20	197.34	85.99	151.74	-37.59	273.84
	31.61	253.72	110.81	195.10	-47.58	352.08
1.75	37.31	268.12	119.07	206.22	-44.45	372.05
	29.44	208.54	92.82	160.39	-33.95	289.37
	21.57	148.96	66.57	114.57	-23.44	206.70
	13.69	89.37	40.32	68.74	-12.93	124.02
	5.82	29.79	14.07	22.91	-2.42	41.34
	1.90	27.59	11.28	21.22	-7.49	38.29
	9.19	82.78	35.60	63.67	-17.22	114.87
	16.48	137.97	59.91	106.12	-26.95	191.45
	23.77	193.16	84.23	148.56	-36.68	268.03
	31.06	248.34	108.54	191.01	-46.42	344.61
	1.80	36.82	262.96	116.92	202.30	-43.28
29.06		204.52	91.15	157.34	-33.03	283.80
21.30		146.09	65.38	112.39	-22.77	202.71
13.54		87.65	39.61	67.43	-12.52	121.63
5.78		29.22	13.84	22.48	-2.27	40.54
1.83		27.03	11.04	20.80	-7.38	37.51
9.01		81.10	34.89	62.40	-16.87	112.54
16.19		135.17	58.74	103.99	-26.35	187.57
23.37		189.24	82.58	145.59	-35.84	262.60
30.55		243.31	106.43	187.19	-45.32	337.63
1.85	34.82	256.57	113.36	197.07	-43.72	356.06
	27.51	199.55	88.38	153.28	-33.36	276.94
	20.20	142.54	63.40	109.48	-23.01	197.81
	12.89	85.52	38.43	65.69	-12.66	118.69
	5.57	28.51	13.45	21.90	-2.30	39.56
	1.61	26.35	10.66	20.24	-7.44	36.57
	8.37	79.06	33.75	60.72	-17.01	109.72
	15.13	131.76	56.84	101.21	-26.59	182.86
	21.89	184.47	79.93	141.69	-36.16	256.00
	28.64	237.17	103.02	182.17	-45.73	329.15
1.90	34.43	252.04	111.50	193.64	-42.63	349.78
	27.21	196.03	86.94	150.61	-32.51	272.05
	19.99	140.02	62.37	107.58	-22.40	194.32
	12.77	84.01	37.81	64.55	-12.28	116.59
	5.54	28.00	13.25	21.52	-2.16	38.86
	1.55	25.86	10.45	19.87	-7.35	35.89
	8.22	77.59	33.14	59.61	-16.69	107.68
	14.89	129.32	55.82	99.36	-26.04	179.47
	21.56	181.05	78.51	139.10	-35.38	251.26
	28.23	232.78	101.19	178.84	-44.73	323.05
1.95	34.07	247.79	109.75	190.42	-41.60	343.87
	26.94	192.72	85.58	148.10	-31.71	267.45

	19.80	137.66	61.41	105.79	-21.81	191.04
	12.66	82.60	37.23	63.47	-11.92	114.62
	5.52	27.53	13.06	21.16	-2.02	38.21
	1.50	25.41	10.25	19.52	-7.26	35.26
	8.08	76.22	32.56	58.57	-16.39	105.77
	14.67	127.03	54.87	97.62	-25.52	176.29
	21.26	177.85	77.18	136.67	-34.66	246.80
	27.85	228.66	99.48	175.72	-43.79	317.32
2.00	33.67	243.70	108.04	187.31	-40.70	338.20
	26.62	189.55	84.25	145.69	-31.00	263.04
	19.58	135.39	60.46	104.06	-21.30	187.89
	12.53	81.23	36.67	62.44	-11.60	112.73
	5.49	27.08	12.88	20.81	-1.90	37.58
	1.44	24.97	10.06	19.19	-7.19	34.65
	7.93	74.90	32.00	57.57	-16.13	103.95
	14.43	124.84	53.94	95.95	-25.08	173.25
	20.93	174.78	75.87	134.33	-34.02	242.54
	27.42	224.71	97.81	172.72	-42.96	311.84
2.05	33.36	239.92	106.50	184.45	-39.77	332.94
	26.39	186.61	83.05	143.46	-30.27	258.95
	19.42	133.29	59.60	102.47	-20.77	184.97
	12.44	79.97	36.16	61.48	-11.27	110.98
	5.47	26.66	12.71	20.49	-1.78	36.99
	1.39	24.56	9.89	18.88	-7.11	34.09
	7.81	73.69	31.49	56.65	-15.86	102.26
	14.24	122.81	53.09	94.42	-24.61	170.43
	20.67	171.94	74.70	132.19	-33.37	238.60
	27.09	221.07	96.30	169.95	-42.12	306.77
2.10	33.08	236.35	105.04	181.75	-38.88	327.98
	26.17	183.83	81.92	141.36	-29.57	255.09
	19.27	131.31	58.80	100.97	-20.27	182.21
	12.36	78.78	35.68	60.58	-10.96	109.33
	5.45	26.26	12.56	20.19	-1.66	36.44
	1.34	24.18	9.73	18.59	-7.04	33.56
	7.70	72.54	31.01	55.78	-15.61	100.67
	14.06	120.91	52.30	92.97	-24.18	167.78
	20.42	169.27	73.59	130.16	-32.75	234.89
	26.78	217.63	94.88	167.35	-41.31	302.00
2.15	32.71	232.86	103.56	179.08	-38.14	323.13
	25.89	181.11	80.77	139.29	-29.00	251.32
	19.06	129.37	57.98	99.49	-19.85	179.52
	12.24	77.62	35.19	59.69	-10.70	107.71
	5.42	25.87	12.40	19.90	-1.55	35.90
	1.28	23.81	9.56	18.31	-6.99	33.04
	7.56	71.43	30.53	54.93	-15.41	99.12

	13.84	119.04	51.50	91.55	-23.82	165.19
	20.11	166.66	72.47	128.17	-32.24	231.27
	26.39	214.28	93.44	164.79	-40.66	297.35
2.20	32.47	229.67	102.26	176.67	-37.33	318.69
	25.70	178.63	79.77	137.41	-28.36	247.87
	18.94	127.59	57.27	98.15	-19.38	177.05
	12.18	76.56	34.77	58.89	-10.41	106.23
	5.41	25.52	12.27	19.63	-1.44	35.41
	1.24	23.47	9.41	18.05	-6.93	32.57
	7.46	70.41	30.11	54.16	-15.18	97.70
	13.68	117.35	50.80	90.27	-23.43	162.83
	19.90	164.28	71.49	126.37	-31.68	227.96
	26.12	211.22	92.18	162.48	-39.93	293.10
	2.25	32.25	226.64	101.05	174.39	-36.55
25.54		176.28	78.82	135.64	-27.74	244.60
18.83		125.91	56.59	96.88	-18.94	174.72
12.11		75.55	34.36	58.13	-10.14	104.83
5.40		25.18	12.14	19.38	-1.33	34.94
1.20		23.15	9.27	17.81	-6.87	32.12
7.37		69.44	29.71	53.43	-14.96	96.36
13.54		115.74	50.14	89.06	-23.06	160.60
19.71		162.04	70.57	124.68	-31.15	224.84
25.88		208.33	91.00	160.30	-39.24	289.08
2.30	30.03	221.76	97.88	170.21	-37.82	307.78
	23.82	172.48	76.36	132.39	-28.72	239.39
	17.60	123.20	54.84	94.56	-19.63	170.99
	11.39	73.92	33.32	56.74	-10.54	102.59
	5.17	24.64	11.79	18.91	-1.45	34.20
	0.96	22.64	8.94	17.38	-7.02	31.42
	6.67	67.92	28.71	52.13	-15.38	94.26
	12.38	113.19	48.49	86.88	-23.73	157.10
	18.09	158.47	68.26	121.63	-32.08	219.94
	23.80	203.75	88.03	156.39	-40.44	282.78
2.35	29.87	219.06	96.81	168.18	-37.08	304.03
	23.69	170.38	75.53	130.81	-28.14	236.47
	17.52	121.70	54.25	93.43	-19.21	168.91
	11.34	73.02	32.96	56.06	-10.28	101.34
	5.17	24.34	11.68	18.69	-1.34	33.78
	0.92	22.35	8.82	17.16	-6.97	31.02
	6.59	67.06	28.36	51.48	-15.18	93.07
	12.26	111.77	47.91	85.81	-23.38	155.12
	17.93	156.47	67.45	120.13	-31.59	217.17
	23.60	201.18	87.00	154.45	-39.79	279.21
2.40	29.72	216.50	95.80	166.25	-36.37	300.46
	23.58	168.39	74.74	129.31	-27.59	233.69

	17.44	120.28	53.69	92.36	-18.80	166.92
	11.31	72.17	32.63	55.42	-10.02	100.15
	5.17	24.06	11.58	18.47	-1.24	33.38
	0.89	22.08	8.70	16.96	-6.92	30.65
	6.52	66.25	28.03	50.87	-14.99	91.94
	12.16	110.42	47.36	84.79	-23.05	153.24
	17.79	154.58	66.69	118.71	-31.11	214.54
	23.42	198.75	86.02	152.62	-39.17	275.83
2.45	29.58	214.06	94.84	164.42	-35.69	297.08
	23.48	166.49	74.00	127.89	-27.05	231.06
	17.37	118.92	53.16	91.35	-18.41	165.04
	11.27	71.35	32.32	54.81	-9.78	99.03
	5.17	23.78	11.48	18.27	-1.14	33.01
	0.86	21.83	8.59	16.77	-6.88	30.29
	6.46	65.48	27.72	50.30	-14.80	90.88
	12.06	109.14	46.84	83.83	-22.73	151.46
	17.66	152.79	65.97	117.36	-30.66	212.04
	23.26	196.45	85.09	150.89	-38.58	272.63
2.50	29.45	211.74	93.94	162.68	-35.03	293.85
	23.38	164.69	73.30	126.53	-26.53	228.55
	17.31	117.64	52.66	90.38	-18.04	163.25
	11.24	70.58	32.02	54.23	-9.54	97.95
	5.17	23.53	11.39	18.08	-1.04	32.65
	0.82	21.58	8.49	16.58	-6.84	29.95
	6.39	64.75	27.42	49.75	-14.63	89.86
	11.96	107.92	46.35	82.92	-22.43	149.77
	17.53	151.09	65.29	116.08	-30.22	209.68
	23.10	194.26	84.22	149.25	-38.02	269.59
2.55	29.34	209.54	93.08	161.03	-34.40	290.78
	23.30	162.97	72.63	125.25	-26.04	226.17
	17.26	116.41	52.19	89.46	-17.67	161.55
	11.22	69.85	31.74	53.68	-9.31	96.93
	5.17	23.28	11.30	17.89	-0.95	32.31
	0.79	21.35	8.39	16.41	-6.80	29.63
	6.34	64.06	27.14	49.23	-14.47	88.90
	11.88	106.77	45.89	82.05	-22.14	148.17
	17.42	149.48	64.64	114.87	-29.81	207.44
	22.96	192.18	83.39	147.69	-37.48	266.70
2.60	28.47	206.67	91.49	158.69	-34.55	286.83
	22.63	160.74	71.40	123.43	-26.15	223.09
	16.78	114.82	51.31	88.16	-17.75	159.35
	10.94	68.89	31.22	52.90	-9.34	95.61
	5.09	22.96	11.13	17.63	-0.94	31.87
	0.69	21.06	8.22	16.17	-6.84	29.22
	6.05	63.17	26.64	48.50	-14.55	87.67

	11.40	105.28	45.06	80.84	-22.25	146.12
	16.76	147.40	63.48	113.18	-29.96	204.57
	22.12	189.51	81.91	145.51	-37.66	263.01
2.65	28.38	204.67	90.72	157.19	-33.96	284.04
	22.56	159.19	70.81	122.26	-25.68	220.92
	16.74	113.71	50.89	87.33	-17.41	157.80
	10.92	68.22	30.97	52.40	-9.13	94.68
	5.10	22.74	11.05	17.47	-0.85	31.56
	0.66	20.85	8.13	16.01	-6.81	28.93
	5.99	62.55	26.39	48.04	-14.40	86.80
	11.33	104.24	44.65	80.06	-21.98	144.67
	16.67	145.94	62.91	112.09	-29.57	202.54
	22.00	187.64	81.17	144.11	-37.16	260.41
	2.70	28.30	202.76	89.99	155.77	-33.39
22.50		157.70	70.24	121.15	-25.23	218.86
16.70		112.64	50.49	86.54	-17.08	156.33
10.91		67.59	30.73	51.92	-8.92	93.80
5.11		22.53	10.98	17.31	-0.76	31.27
0.63		20.65	8.04	15.86	-6.78	28.66
5.95		61.95	26.15	47.59	-14.25	85.98
11.26		103.26	44.25	79.32	-21.73	143.30
16.58		144.56	62.36	111.05	-29.21	200.62
21.89		185.86	80.46	142.78	-36.68	257.94
2.75	28.03	200.74	89.09	154.20	-33.04	278.58
	22.29	156.13	69.54	119.93	-24.95	216.68
	16.56	111.52	49.99	85.67	-16.87	154.77
	10.83	66.91	30.44	51.40	-8.78	92.86
	5.10	22.30	10.89	17.13	-0.70	30.95
	0.58	20.44	7.94	15.70	-6.77	28.37
	5.84	61.33	25.86	47.11	-14.18	85.11
	11.09	102.21	43.77	78.52	-21.59	141.85
	16.35	143.10	61.69	109.92	-29.00	198.59
	21.60	183.98	79.61	141.33	-36.41	255.33
2.80	27.97	199.00	88.43	152.91	-32.50	276.17
	22.25	154.78	69.03	118.93	-24.53	214.80
	16.54	110.56	49.63	84.95	-16.56	153.43
	10.82	66.33	30.23	50.97	-8.59	92.06
	5.11	22.11	10.82	16.99	-0.61	30.69
	0.56	20.26	7.86	15.57	-6.74	28.12
	5.80	60.79	25.64	46.71	-14.05	84.36
	11.03	101.32	43.42	77.85	-21.35	140.61
	16.27	141.84	61.20	108.99	-28.66	196.85
	21.51	182.37	78.98	140.13	-35.96	253.09
2.85	27.91	197.34	87.80	151.67	-31.98	273.86
	22.21	153.49	68.54	117.96	-24.12	213.00

	16.51	109.63	49.28	84.26	-16.25	152.14
	10.82	65.78	30.02	50.56	-8.39	91.29
	5.12	21.93	10.76	16.85	-0.53	30.43
	0.53	20.09	7.79	15.44	-6.72	27.88
	5.76	60.28	25.44	46.33	-13.92	83.65
	10.98	100.47	43.09	77.21	-21.13	139.42
	16.20	140.65	60.74	108.10	-28.33	195.19
	21.42	180.84	78.39	138.99	-35.54	250.96
2.90	27.87	195.75	87.21	150.49	-31.47	271.65
	22.18	152.25	68.08	117.04	-23.72	211.28
	16.50	108.75	48.96	83.60	-15.96	150.92
	10.81	65.25	29.83	50.16	-8.20	90.55
	5.13	21.75	10.71	16.72	-0.45	30.18
	0.51	19.93	7.72	15.32	-6.70	27.66
	5.72	59.79	25.24	45.97	-13.80	82.97
	10.93	99.65	42.77	76.61	-20.91	138.29
	16.14	139.52	60.29	107.25	-28.02	193.61
	21.35	179.38	77.82	137.90	-35.13	248.92
2.95	26.85	193.26	85.67	148.38	-31.96	268.22
	21.40	150.31	66.89	115.41	-24.09	208.61
	15.94	107.37	48.11	82.43	-16.22	149.01
	10.49	64.42	29.32	49.46	-8.35	89.41
	5.03	21.47	10.54	16.49	-0.48	29.80
	0.39	19.68	7.55	15.11	-6.78	27.31
	5.39	59.03	24.76	45.32	-13.99	81.93
	10.38	98.38	41.97	75.54	-21.20	136.54
	15.38	137.74	59.18	105.75	-28.41	191.16
	20.38	177.09	76.39	135.97	-35.62	245.78
3.00	26.83	191.82	85.14	147.31	-31.47	266.21
	21.39	149.19	66.48	114.57	-23.70	207.05
	15.94	106.56	47.81	81.84	-15.93	147.89
	10.49	63.94	29.15	49.10	-8.17	88.74
	5.05	21.31	10.49	16.37	-0.40	29.58
	0.36	19.53	7.48	15.00	-6.76	27.10
	5.35	58.59	24.58	45.00	-13.88	81.31
	10.34	97.65	41.68	74.99	-20.99	135.52
	15.33	136.71	58.78	104.99	-28.11	189.73
	20.32	175.77	75.88	134.99	-35.23	243.94
3.05	26.81	190.43	84.63	146.29	-31.00	264.28
	21.38	148.11	66.08	113.78	-23.33	205.55
	15.94	105.80	47.54	81.27	-15.66	146.82
	10.50	63.48	28.99	48.76	-7.99	88.09
	5.06	21.16	10.45	16.25	-0.32	29.36
	0.34	19.39	7.42	14.89	-6.74	26.91
	5.33	58.17	24.42	44.68	-13.77	80.73

	10.31	96.95	41.41	74.47	-20.80	134.55	
	15.29	135.73	58.41	104.26	-27.83	188.36	
	20.27	174.51	75.40	134.05	-34.86	242.18	
3.10	26.80	189.11	84.15	145.31	-30.54	262.44	
	21.37	147.09	65.71	113.02	-22.97	204.12	
	15.94	105.06	47.28	80.73	-15.39	145.80	
	10.51	63.04	28.84	48.44	-7.82	87.48	
	5.08	21.01	10.40	16.15	-0.24	29.16	
	0.32	19.26	7.36	14.80	-6.72	26.72	
	5.30	57.77	24.26	44.39	-13.67	80.17	
	10.27	96.28	41.16	73.98	-20.61	133.61	
	15.25	134.79	58.05	103.57	-27.55	187.06	
	20.23	173.31	74.95	133.16	-34.49	240.51	
	3.15	26.80	187.84	83.69	144.37	-30.10	260.67
		21.37	146.10	65.36	112.29	-22.61	202.75
15.95		104.36	47.03	80.20	-15.13	144.82	
10.52		62.61	28.69	48.12	-7.65	86.89	
5.10		20.87	10.36	16.04	-0.16	28.96	
0.30		19.13	7.31	14.70	-6.71	26.55	
5.27		57.39	24.11	44.10	-13.57	79.64	
10.24		95.64	40.91	73.51	-20.42	132.73	
15.22		133.90	57.72	102.91	-27.28	185.82	
20.19		172.16	74.52	132.31	-34.14	238.91	
3.20	26.80	186.62	83.26	143.47	-29.66	258.98	
	21.38	145.15	65.02	111.59	-22.27	201.43	
	15.96	103.68	46.79	79.71	-14.87	143.88	
	10.54	62.21	28.55	47.82	-7.48	86.33	
	5.12	20.74	10.32	15.94	-0.09	28.78	
	0.28	19.01	7.25	14.61	-6.70	26.38	
	5.25	57.02	23.97	43.83	-13.47	79.13	
	10.22	95.03	40.68	73.06	-20.25	131.88	
	15.19	133.05	57.40	102.28	-27.02	184.63	
	20.15	171.06	74.11	131.50	-33.80	237.38	
3.25	26.80	185.46	82.84	142.61	-29.24	257.35	
	21.39	144.25	64.70	110.92	-21.93	200.16	
	15.97	103.03	46.56	79.23	-14.63	142.97	
	10.55	61.82	28.42	47.54	-7.32	85.78	
	5.13	20.61	10.28	15.85	-0.01	28.59	
	0.26	18.89	7.20	14.53	-6.68	26.21	
	5.23	56.67	23.83	43.58	-13.38	78.64	
	10.19	94.45	40.46	72.63	-20.08	131.07	
	15.16	132.23	57.09	101.68	-26.77	183.49	
	20.12	170.01	73.72	130.73	-33.47	235.92	
3.30	26.81	184.34	82.45	141.79	-28.82	255.80	
	21.40	143.37	64.40	110.28	-21.60	198.95	

	15.98	102.41	46.35	78.77	-14.38	142.11
	10.57	61.45	28.30	47.26	-7.16	85.27
	5.15	20.48	10.25	15.75	0.06	28.42
	0.24	18.78	7.15	14.44	-6.67	26.06
	5.20	56.34	23.70	43.33	-13.29	78.17
	10.17	93.89	40.25	72.22	-19.91	130.29
	15.13	131.45	56.80	101.11	-26.53	182.41
	20.10	169.01	73.35	129.99	-33.15	234.52
3.35	26.83	183.27	82.07	141.00	-28.42	254.30
	21.41	142.54	64.11	109.66	-21.28	197.79
	16.00	101.81	46.14	78.33	-14.14	141.28
	10.59	61.09	28.18	47.00	-7.01	84.77
	5.17	20.36	10.22	15.67	0.13	28.26
	0.22	18.67	7.11	14.37	-6.66	25.91
	5.18	56.02	23.58	43.10	-13.21	77.73
	10.15	93.36	40.05	71.83	-19.75	129.55
	15.11	130.71	56.53	100.56	-26.30	181.37
	20.08	168.05	73.00	129.29	-32.84	233.19
3.40	26.85	182.23	81.72	140.24	-28.02	252.86
	21.43	141.74	63.83	109.07	-20.97	196.67
	16.02	101.24	45.95	77.91	-13.91	140.48
	10.61	60.74	28.07	46.75	-6.85	84.29
	5.19	20.25	10.18	15.58	0.20	28.10
	0.20	18.57	7.06	14.29	-6.66	25.77
	5.17	55.71	23.46	42.87	-13.13	77.30
	10.13	92.85	39.86	71.45	-19.60	128.84
	15.10	129.99	56.26	100.04	-26.07	180.37
	20.06	167.13	72.66	128.62	-32.54	231.91
3.45	26.87	181.24	81.38	139.51	-27.64	251.48
	21.46	140.97	63.57	108.51	-20.66	195.60
	16.04	100.69	45.77	77.51	-13.68	139.71
	10.63	60.41	27.96	46.50	-6.70	83.83
	5.21	20.14	10.16	15.50	0.27	27.94
	0.18	18.47	7.02	14.22	-6.65	25.63
	5.15	55.42	23.35	42.66	-13.05	76.90
	10.12	92.36	39.68	71.10	-19.45	128.16
	15.08	129.31	56.01	99.54	-25.85	179.42
	20.05	166.26	72.35	127.98	-32.25	230.69
3.50	26.90	180.29	81.05	138.82	-27.26	250.16
	21.48	140.23	63.32	107.97	-20.36	194.57
	16.07	100.16	45.59	77.12	-13.46	138.98
	10.65	60.10	27.86	46.27	-6.56	83.39
	5.24	20.03	10.13	15.42	0.34	27.80
	0.16	18.38	6.97	14.15	-6.65	25.50
	5.13	55.14	23.24	42.45	-12.98	76.51

	10.10	91.90	39.51	70.76	-19.31	127.51	
	15.07	128.66	55.78	99.06	-25.64	178.51	
	20.04	165.42	72.05	127.36	-31.97	229.52	
3.55	26.93	179.38	80.75	138.15	-26.89	248.89	
	21.51	139.52	63.09	107.45	-20.06	193.58	
	16.09	99.66	45.43	76.75	-13.24	138.27	
	10.68	59.79	27.77	46.05	-6.41	82.96	
	5.26	19.93	10.10	15.35	0.41	27.65	
	0.15	18.29	6.93	14.09	-6.64	25.38	
	5.12	54.87	23.14	42.26	-12.90	76.13	
	10.09	91.45	39.35	70.43	-19.17	126.89	
	15.06	128.03	55.55	98.60	-25.43	177.64	
	20.03	164.61	71.76	126.78	-31.69	228.40	
	3.60	26.96	178.50	80.45	137.51	-26.53	247.66
		21.54	138.83	62.86	106.95	-19.77	192.62
16.12		99.17	45.27	76.39	-13.02	137.59	
10.70		59.50	27.67	45.84	-6.27	82.55	
5.28		19.83	10.08	15.28	0.48	27.52	
0.13		18.21	6.89	14.02	-6.64	25.26	
5.10		54.62	23.04	42.07	-12.83	75.78	
10.08		91.03	39.19	70.12	-19.03	126.29	
15.06		127.44	55.34	98.17	-25.23	176.81	
20.03		163.85	71.49	126.22	-31.43	227.33	
3.65	27.00	177.66	80.17	136.89	-26.17	246.48	
	21.58	138.18	62.65	106.47	-19.49	191.71	
	16.15	98.70	45.12	76.05	-12.81	136.94	
	10.73	59.22	27.59	45.63	-6.13	82.16	
	5.30	19.74	10.06	15.21	0.55	27.39	
	0.11	18.12	6.86	13.96	-6.64	25.14	
	5.09	54.37	22.95	41.89	-12.77	75.43	
	10.07	90.62	39.04	69.82	-18.90	125.72	
	15.05	126.86	55.14	97.75	-25.03	176.01	
	20.03	163.11	71.23	125.68	-31.17	226.30	
3.70	27.04	176.84	79.91	136.30	-25.82	245.35	
	21.61	137.55	62.44	106.01	-19.21	190.83	
	16.19	98.25	44.98	75.72	-12.60	136.31	
	10.76	58.95	27.51	45.43	-5.99	81.78	
	5.33	19.65	10.04	15.14	0.61	27.26	
	0.09	18.04	6.82	13.91	-6.63	25.04	
	5.08	54.13	22.86	41.72	-12.70	75.11	
	10.07	90.22	38.90	69.54	-18.77	125.18	
	15.05	126.31	54.94	97.36	-24.84	175.25	
	20.04	162.40	70.99	125.17	-30.91	225.32	
3.75	27.02	175.99	79.59	135.66	-25.55	244.16	
	21.60	136.88	62.19	105.52	-19.00	189.91	

	16.18	97.77	44.80	75.37	-12.44	135.65
	10.76	58.66	27.41	45.22	-5.88	81.39
	5.34	19.55	10.01	15.07	0.67	27.13
	0.07	17.96	6.78	13.85	-6.64	24.92
	5.05	53.89	22.76	41.54	-12.66	74.76
	10.02	89.81	38.73	69.23	-18.69	124.60
	15.00	125.74	54.71	96.93	-24.71	174.45
	19.98	161.66	70.69	124.62	-30.73	224.29
3.80	27.07	175.24	79.35	135.12	-25.22	243.12
	21.64	136.30	62.01	105.09	-18.73	189.09
	16.22	97.36	44.67	75.07	-12.24	135.06
	10.79	58.41	27.33	45.04	-5.75	81.04
	5.37	19.47	10.00	15.01	0.74	27.01
	0.05	17.89	6.75	13.79	-6.64	24.82
	5.04	53.67	22.68	41.38	-12.60	74.46
	10.02	89.45	38.61	68.97	-18.57	124.10
	15.00	125.24	54.54	96.56	-24.53	173.74
	19.99	161.02	70.47	124.15	-30.49	223.38
3.85	27.12	174.52	79.12	134.59	-24.89	242.11
	21.69	135.73	61.84	104.68	-18.46	188.30
	16.25	96.95	44.55	74.77	-12.04	134.50
	10.82	58.17	27.27	44.86	-5.62	80.70
	5.39	19.39	9.98	14.95	0.80	26.90
	0.04	17.82	6.71	13.75	-6.64	24.72
	5.03	53.47	22.60	41.24	-12.55	74.17
	10.02	89.11	38.49	68.73	-18.45	123.62
	15.01	124.75	54.37	96.22	-24.35	173.07
	20.00	160.40	70.26	123.71	-30.25	222.52
3.90	27.17	173.82	78.90	134.09	-24.56	241.13
	21.73	135.19	61.67	104.29	-18.20	187.55
	16.29	96.57	44.44	74.50	-11.85	133.96
	10.86	57.94	27.20	44.70	-5.49	80.38
	5.42	19.31	9.97	14.90	0.87	26.79
	0.02	17.76	6.68	13.70	-6.64	24.63
	5.02	53.27	22.53	41.09	-12.49	73.90
	10.02	88.78	38.37	68.49	-18.33	123.16
	15.02	124.29	54.22	95.88	-24.18	172.43
	20.02	159.80	70.06	123.28	-30.03	221.69
3.95	27.23	173.15	78.70	133.61	-24.24	240.20
	21.78	134.67	61.51	103.92	-17.95	186.82
	16.34	96.19	44.33	74.23	-11.66	133.44
	10.89	57.72	27.14	44.54	-5.36	80.07
	5.44	19.24	9.95	14.85	0.93	26.69
	0.00	17.69	6.65	13.65	-6.65	24.54
	5.01	53.08	22.46	40.96	-12.44	73.63

	10.02	88.46	38.26	68.26	-18.22	122.72	
	15.03	123.85	54.07	95.57	-24.01	171.81	
	20.04	159.23	69.87	122.87	-29.80	220.89	
4.00	27.29	172.50	78.50	133.14	-23.93	239.29	
	21.83	134.17	61.36	103.56	-17.70	186.12	
	16.38	95.83	44.22	73.97	-11.47	132.94	
	10.92	57.50	27.08	44.38	-5.23	79.76	
	5.47	19.17	9.94	14.79	1.00	26.59	
	-0.01	17.63	6.62	13.61	-6.65	24.46	
	5.00	52.90	22.39	40.83	-12.38	73.38	
	10.02	88.16	38.16	68.05	-18.12	122.30	
	15.04	123.42	53.93	95.26	-23.85	171.21	
	20.06	158.69	69.70	122.48	-29.58	220.13	
	4.05	27.35	171.88	78.32	132.70	-23.62	238.43
		21.89	133.68	61.22	103.21	-17.45	185.44
16.42		95.49	44.13	73.72	-11.28	132.46	
10.96		57.29	27.03	44.23	-5.11	79.48	
5.50		19.10	9.93	14.74	1.06	26.49	
-0.03		17.57	6.59	13.57	-6.65	24.38	
5.00		52.72	22.33	40.70	-12.33	73.13	
10.02		87.87	38.06	67.84	-18.01	121.89	
15.05		123.02	53.79	94.97	-23.69	170.65	
20.08		158.16	69.53	122.11	-29.37	219.40	
4.10	27.41	171.28	78.14	132.27	-23.32	237.59	
	21.94	133.22	61.09	102.88	-17.21	184.79	
	16.47	95.16	44.03	73.48	-11.10	131.99	
	10.99	57.09	26.98	44.09	-4.99	79.20	
	5.52	19.03	9.92	14.70	1.12	26.40	
	-0.05	17.52	6.57	13.53	-6.66	24.30	
	4.99	52.55	22.27	40.58	-12.28	72.90	
	10.03	87.59	37.97	67.64	-17.91	121.50	
	15.07	122.63	53.67	94.70	-23.53	170.10	
	20.10	157.66	69.37	121.75	-29.16	218.70	
4.15	27.48	170.70	77.98	131.86	-23.02	236.78	
	22.00	132.77	60.96	102.56	-16.97	184.16	
	16.51	94.83	43.95	73.25	-10.92	131.55	
	11.03	56.90	26.93	43.95	-4.87	78.93	
	5.55	18.97	9.91	14.65	1.19	26.31	
	-0.06	17.46	6.54	13.49	-6.66	24.23	
	4.99	52.39	22.21	40.47	-12.24	72.68	
	10.04	87.32	37.88	67.45	-17.81	121.13	
	15.08	122.25	53.55	94.43	-23.38	169.58	
	20.13	157.18	69.22	121.41	-28.95	218.03	
4.20	27.55	170.15	77.82	131.46	-22.73	236.00	
	22.06	132.34	60.84	102.25	-16.73	183.56	

	16.56	94.53	43.86	73.03	-10.74	131.11
	11.07	56.72	26.88	43.82	-4.75	78.67
	5.58	18.91	9.90	14.61	1.25	26.22
	-0.08	17.41	6.52	13.45	-6.67	24.15
	4.98	52.24	22.16	40.36	-12.19	72.46
	10.04	87.07	37.80	67.27	-17.71	120.77
	15.10	121.89	53.44	94.18	-23.23	169.08
	20.16	156.72	69.08	121.09	-28.75	217.38
4.25	27.62	169.61	77.67	131.08	-22.44	235.25
	22.12	131.92	60.73	101.95	-16.50	182.98
	16.61	94.23	43.79	72.82	-10.56	130.70
	11.11	56.54	26.84	43.69	-4.63	78.42
	5.60	18.85	9.90	14.56	1.31	26.14
	-0.09	17.36	6.49	13.42	-6.68	24.09
	4.98	52.09	22.10	40.26	-12.15	72.26
	10.05	86.82	37.72	67.10	-17.62	120.43
	15.12	121.55	53.33	93.94	-23.09	168.60
	20.19	156.28	68.94	120.78	-28.56	216.77
4.30	27.69	169.09	77.53	130.71	-22.15	234.53
	22.18	131.52	60.62	101.67	-16.27	182.41
	16.66	93.94	43.71	72.62	-10.39	130.29
	11.15	56.36	26.80	43.57	-4.51	78.18
	5.63	18.79	9.89	14.52	1.37	26.06
	-0.11	17.32	6.47	13.39	-6.68	24.02
	4.98	51.95	22.06	40.16	-12.10	72.06
	10.06	86.59	37.64	66.93	-17.52	120.10
	15.14	121.22	53.23	93.71	-22.94	168.13
	20.23	155.86	68.82	120.48	-28.36	216.17
4.35	27.77	168.59	77.40	130.36	-21.87	233.83
	22.24	131.13	60.52	101.39	-16.04	181.87
	16.71	93.66	43.65	72.42	-10.22	129.91
	11.19	56.20	26.77	43.45	-4.39	77.94
	5.66	18.73	9.89	14.48	1.43	25.98
	-0.12	17.27	6.45	13.36	-6.69	23.96
	4.97	51.82	22.01	40.07	-12.06	71.87
	10.07	86.36	37.57	66.78	-17.43	119.78
	15.17	120.91	53.13	93.49	-22.80	167.69
	20.26	155.45	68.70	120.20	-28.17	215.61
4.40	27.85	168.11	77.28	130.02	-21.59	233.16
	22.31	130.75	60.43	101.13	-15.82	181.35
	16.77	93.40	43.58	72.24	-10.05	129.53
	11.23	56.04	26.73	43.34	-4.28	77.72
	5.69	18.68	9.88	14.45	1.49	25.91
	-0.14	17.23	6.42	13.33	-6.70	23.90
	4.97	51.69	21.96	39.98	-12.02	71.69

	10.08	86.14	37.51	66.63	-17.34	119.48
	15.19	120.60	53.05	93.28	-22.67	167.27
	20.30	155.06	68.59	119.93	-27.99	215.06
4.45	27.92	167.65	77.16	129.70	-21.31	232.51
	22.37	130.39	60.34	100.88	-15.60	180.84
	16.82	93.14	43.52	72.05	-9.88	129.17
	11.27	55.88	26.70	43.23	-4.16	77.50
	5.72	18.63	9.88	14.41	1.55	25.83
	-0.15	17.19	6.40	13.30	-6.71	23.84
	4.97	51.56	21.92	39.89	-11.98	71.51
	10.09	85.94	37.44	66.48	-17.26	119.19
	15.21	120.31	52.96	93.08	-22.53	166.86
	20.34	154.69	68.48	119.67	-27.81	214.54
	4.50	28.01	167.20	77.05	129.39	-21.04
22.44		130.05	60.26	100.63	-15.38	180.36
16.88		92.89	43.46	71.88	-9.71	128.83
11.31		55.73	26.67	43.13	-4.05	77.30
5.75		18.58	9.88	14.38	1.61	25.77
-0.17		17.15	6.38	13.27	-6.72	23.78
4.97		51.44	21.88	39.81	-11.95	71.35
10.11		85.74	37.38	66.35	-17.17	118.91
15.24		120.03	52.88	92.89	-22.40	166.47
20.38		154.33	68.38	119.43	-27.63	214.04

A2.1.3.- Cercha con 12 divisiones del cordón

En la Figura 3 se indica el cálculo de la cercha con el cordón dividido en 12 espacios para alturas desde 50cm hasta 450cm con intervalos de 5cm, con el software Matlab2018.

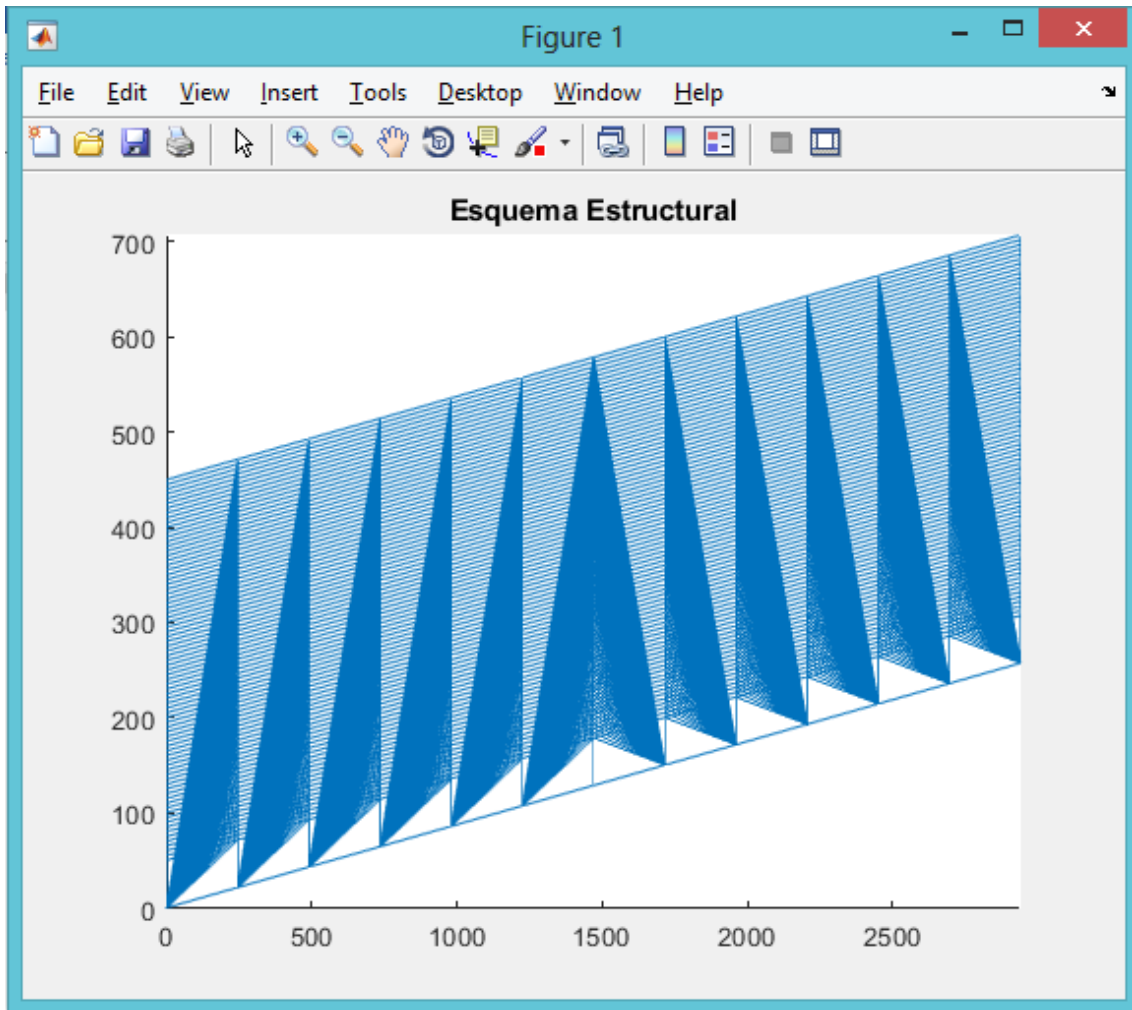


Figura 3. Cercha con el cordón dividido en 12 espacios (ejes en cm)

En la Tabla 9 se muestran las combinaciones de esfuerzos para el cordón inferior en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 9. Combinación de esfuerzos del cordón inferior - 12 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Mín (KN)	Máx(KN)	Mín (KN)	Máx(KN)	Min (KN)	Máx(KN)
0.50	213.03	1031.40	502.96	811.97	-76.90	1428.17
	94.34	445.13	218.27	350.43	-29.59	616.37
	-10.86	1.74	-8.55	-3.30	-15.03	6.78
	-336.56	-64.78	-264.96	-161.76	-466.03	32.19
	-531.99	-105.21	-418.81	-257.09	-736.63	46.66
	-597.13	-119.56	-470.09	-289.30	-826.83	50.18
	-597.13	-119.56	-470.09	-289.30	-826.83	50.18
	-531.99	-107.82	-418.81	-258.39	-736.63	42.75
	-336.56	-70.00	-264.96	-164.36	-466.03	24.37
	-10.86	-6.08	-8.55	-7.22	-15.03	-4.95

	83.91	445.13	213.06	350.43	-45.23	616.37
	200.00	1031.40	496.45	811.97	-96.45	1428.17
0.55	188.22	931.60	451.50	732.12	-75.06	1290.18
	83.63	402.06	196.06	315.97	-28.79	556.82
	-9.81	2.00	-7.71	-2.76	-13.58	6.76
	-304.00	-56.69	-238.90	-144.96	-421.01	31.59
	-480.51	-92.42	-377.62	-230.54	-665.46	45.71
	-539.35	-105.20	-423.86	-259.51	-746.95	49.11
	-539.35	-105.20	-423.86	-259.51	-746.95	49.11
	-480.51	-95.02	-377.62	-231.85	-665.46	41.80
	-304.00	-61.90	-238.90	-147.57	-421.01	23.77
	-9.81	-5.82	-7.71	-6.67	-13.58	-4.97
	73.20	402.06	190.84	315.97	-44.43	556.82
	175.18	931.60	444.98	732.12	-94.61	1290.18
	0.60	158.93	839.82	400.00	656.97	-82.13
70.99		362.45	173.83	283.53	-31.84	502.17
-8.84		2.31	-6.92	-2.22	-12.25	6.83
-274.05		-47.13	-214.38	-128.16	-379.69	33.90
-433.17		-77.31	-338.86	-203.98	-600.16	49.36
-486.21		-88.24	-380.35	-229.69	-673.65	53.21
-486.21		-88.24	-380.35	-229.69	-673.65	53.21
-433.17		-79.92	-338.86	-205.29	-600.16	45.45
-274.05		-52.34	-214.38	-130.77	-379.69	26.08
-8.84		-5.51	-6.92	-6.13	-12.25	-4.90
60.57		362.45	168.62	283.53	-47.49	502.17
145.90		839.82	393.48	656.97	-101.68	1163.57
0.65		140.02	768.03	362.29	599.24	-82.26
	62.83	331.46	157.56	258.62	-31.90	459.35
	-8.08	2.51	-6.31	-1.82	-11.20	6.83
	-250.62	-40.96	-195.54	-115.85	-347.32	33.94
	-396.14	-67.55	-309.08	-184.53	-548.98	49.42
	-444.65	-77.29	-346.93	-207.86	-616.21	53.28
	-444.65	-77.29	-346.93	-207.86	-616.21	53.28
	-396.14	-70.16	-309.08	-185.83	-548.98	45.51
	-250.62	-46.17	-195.54	-118.46	-347.32	26.12
	-8.08	-5.32	-6.31	-5.73	-11.20	-4.90
	52.40	331.46	152.34	258.62	-47.54	459.35
	126.98	768.03	355.77	599.24	-101.81	1064.35
	0.70	120.98	703.67	327.14	546.93	-85.18
54.61		303.69	142.39	236.04	-33.16	421.01
-7.41		2.71	-5.76	-1.45	-10.27	6.87
-229.62		-34.74	-178.47	-104.38	-318.32	34.90
-362.94		-57.73	-282.10	-166.40	-503.15	50.93
-407.39		-66.27	-316.65	-187.51	-564.77	54.98
-407.39		-66.27	-316.65	-187.51	-564.77	54.98

	-362.94	-60.34	-282.10	-167.71	-503.15	47.02
	-229.62	-39.96	-178.47	-106.99	-318.32	27.08
	-7.41	-5.12	-5.76	-5.36	-10.27	-4.87
	44.19	303.69	137.17	236.04	-48.80	421.01
	107.94	703.67	320.62	546.93	-104.74	975.50
	107.27	650.67	299.47	504.39	-84.94	902.26
	48.69	280.82	130.44	217.68	-33.05	389.40
	-6.85	2.85	-5.31	-1.16	-9.50	6.86
	-212.32	-30.27	-164.59	-95.35	-294.42	34.82
	-335.61	-50.66	-260.16	-152.13	-465.38	50.81
	-376.71	-58.33	-292.01	-171.49	-522.36	54.83
	-376.71	-58.33	-292.01	-171.49	-522.36	54.83
	-335.61	-53.27	-260.16	-153.43	-465.38	46.90
	-212.32	-35.48	-164.59	-97.96	-294.42	27.00
	-6.85	-4.97	-5.31	-5.07	-9.50	-4.87
	38.27	280.82	125.23	217.68	-48.70	389.40
	94.23	650.67	292.95	504.39	-104.49	902.26
0.75	94.66	603.69	274.64	466.55	-85.33	837.35
	43.25	260.54	119.73	201.35	-33.22	361.38
	-6.35	2.98	-4.91	-0.90	-8.81	6.87
	-196.99	-26.15	-152.24	-87.25	-273.24	34.94
	-311.38	-44.16	-240.64	-139.32	-431.89	51.01
	-349.51	-51.03	-270.11	-157.12	-484.78	55.06
	-349.51	-51.03	-270.11	-157.12	-484.78	55.06
	-311.38	-46.76	-240.64	-140.63	-431.89	47.10
	-196.99	-31.37	-152.24	-89.86	-273.24	27.12
	-6.39	-4.79	-4.91	-4.79	-8.86	-4.79
	32.83	260.54	114.52	201.35	-48.87	361.38
	81.62	603.69	268.12	466.55	-104.88	837.35
0.80	86.70	565.41	255.91	436.34	-82.50	784.35
	39.82	244.02	111.64	188.31	-32.01	338.51
	-5.95	3.07	-4.59	-0.70	-8.26	6.84
	-184.50	-23.56	-142.38	-81.14	-255.95	34.02
	-291.63	-40.05	-225.06	-129.66	-404.56	49.55
	-327.34	-46.42	-252.62	-146.27	-454.10	53.43
	-327.34	-46.42	-252.62	-146.27	-454.10	53.43
	-291.63	-42.66	-225.06	-130.97	-404.56	45.64
	-184.50	-28.77	-142.38	-83.75	-255.95	26.20
	-6.12	-4.47	-4.61	-4.47	-8.51	-4.47
	29.39	244.02	106.43	188.31	-47.65	338.51
	73.67	565.41	249.39	436.34	-102.06	784.35
0.85	79.51	531.27	239.14	409.36	-80.11	737.08
	36.72	229.28	104.41	176.67	-30.97	318.11
	-5.59	3.14	-4.31	-0.53	-7.76	6.81
	-173.36	-21.21	-133.58	-75.67	-240.52	33.24
0.90						

	-274.02	-36.35	-211.14	-121.01	-380.18	48.32
	-307.57	-42.26	-237.00	-136.56	-426.73	52.04
	-307.57	-42.26	-237.00	-136.56	-426.73	52.04
	-274.02	-38.95	-211.14	-122.32	-380.18	44.41
	-173.36	-26.43	-133.58	-78.27	-240.52	25.42
	-5.88	-4.20	-4.44	-4.20	-8.19	-4.20
	26.29	229.28	99.19	176.67	-46.61	318.11
	66.48	531.27	232.62	409.36	-99.66	737.08
0.95	73.98	501.62	225.03	386.13	-77.07	696.01
	34.33	216.49	98.32	166.64	-29.66	300.38
	-5.28	3.20	-4.06	-0.38	-7.33	6.78
	-163.69	-19.41	-126.00	-71.07	-227.12	32.25
	-258.73	-33.49	-199.16	-113.74	-359.00	46.75
	-290.41	-39.06	-223.55	-128.40	-402.95	50.28
	-290.41	-39.06	-223.55	-128.40	-402.95	50.28
	-258.73	-36.10	-199.16	-115.04	-359.00	42.84
	-163.69	-24.62	-126.00	-73.67	-227.12	24.43
	-5.68	-3.96	-4.29	-3.96	-7.92	-3.96
	23.90	216.49	93.11	166.64	-45.30	300.38
	60.95	501.62	218.52	386.13	-96.62	696.01
1.00	64.22	470.15	207.56	360.43	-79.12	652.59
	30.12	202.91	90.78	155.56	-30.54	281.64
	-4.95	3.30	-3.79	-0.20	-6.87	6.80
	-153.42	-16.22	-117.62	-65.36	-212.95	32.92
	-242.50	-28.46	-185.91	-104.72	-336.60	47.80
	-272.19	-33.41	-208.67	-118.28	-377.81	51.46
	-272.19	-33.41	-208.67	-118.28	-377.81	51.46
	-242.50	-31.07	-185.91	-106.03	-336.60	43.89
	-153.42	-21.44	-117.62	-67.97	-212.95	25.10
	-5.44	-3.69	-4.11	-3.69	-7.61	-3.69
	19.69	202.91	85.56	155.56	-46.18	281.64
	51.19	470.15	201.04	360.43	-98.67	652.59
1.05	61.85	448.14	198.21	343.65	-74.50	622.02
	29.10	193.41	86.74	148.31	-28.55	268.45
	-4.72	3.33	-3.62	-0.10	-6.55	6.75
	-146.23	-15.45	-112.14	-62.31	-202.98	31.41
	-231.14	-27.24	-177.25	-99.90	-320.83	45.43
	-259.45	-32.04	-198.96	-112.87	-360.12	48.79
	-259.45	-32.04	-198.96	-112.87	-360.12	48.79
	-231.14	-29.84	-177.25	-101.20	-320.83	41.52
	-146.23	-20.66	-112.14	-64.92	-202.98	23.59
	-5.30	-3.52	-4.01	-3.52	-7.42	-3.52
	18.67	193.41	81.53	148.31	-44.19	268.45
	48.82	448.14	191.69	343.65	-94.05	622.02
1.10	59.70	428.14	189.71	328.40	-70.30	594.25

	28.17	184.77	83.08	141.73	-26.74	256.46
	-4.51	3.35	-3.46	-0.01	-6.26	6.71
	-139.71	-14.75	-107.16	-59.54	-193.91	30.04
	-220.83	-26.13	-169.38	-95.52	-306.51	43.26
	-247.87	-30.79	-190.12	-107.95	-344.04	46.36
	-247.87	-30.79	-190.12	-107.95	-344.04	46.36
	-220.83	-28.74	-169.38	-96.82	-306.51	39.35
	-139.71	-19.96	-107.16	-62.15	-193.91	22.22
	-5.17	-3.37	-3.92	-3.37	-7.25	-3.37
	17.74	184.77	77.86	141.73	-42.38	256.46
	46.67	428.14	183.20	328.40	-89.86	594.25
1.15	57.75	409.88	181.96	314.48	-66.47	568.89
	27.32	176.89	79.73	135.72	-25.08	245.52
	-4.31	3.37	-3.31	0.07	-5.99	6.67
	-133.75	-14.11	-102.62	-57.01	-185.64	28.79
	-211.41	-25.12	-162.20	-91.52	-293.43	41.28
	-237.30	-29.66	-182.06	-103.46	-329.36	44.14
	-237.30	-29.66	-182.06	-103.46	-329.36	44.14
	-211.41	-27.73	-162.20	-92.83	-293.43	37.37
	-133.75	-19.32	-102.62	-59.62	-185.64	20.97
	-5.05	-3.22	-3.84	-3.22	-7.09	-3.22
	16.90	176.89	74.52	135.72	-40.73	245.52
	44.71	409.88	175.45	314.48	-86.02	568.89
1.20	53.46	390.65	172.37	299.22	-65.44	542.28
	25.48	168.60	75.59	129.14	-24.64	234.04
	-4.11	3.42	-3.15	0.18	-5.71	6.66
	-127.48	-12.71	-97.64	-53.88	-176.96	28.45
	-201.49	-22.91	-154.34	-86.57	-279.70	40.75
	-226.17	-27.18	-173.23	-97.91	-313.95	43.55
	-226.17	-27.18	-173.23	-97.91	-313.95	43.55
	-201.49	-25.52	-154.34	-87.88	-279.70	36.84
	-127.48	-17.93	-97.64	-56.49	-176.96	20.63
	-4.92	-3.07	-3.74	-3.07	-6.91	-3.07
	15.05	168.60	70.38	129.14	-40.28	234.04
	40.43	390.65	165.85	299.22	-84.99	542.28
1.25	51.92	375.36	165.94	287.59	-62.10	521.05
	24.81	162.00	72.82	124.12	-23.20	224.87
	-3.95	3.43	-3.03	0.24	-5.48	6.62
	-122.49	-12.21	-93.84	-51.78	-170.03	27.36
	-193.61	-22.12	-148.34	-83.26	-268.75	39.03
	-217.31	-26.29	-166.50	-94.18	-301.66	41.61
	-217.31	-26.29	-166.50	-94.18	-301.66	41.61
	-193.61	-24.72	-148.34	-84.56	-268.75	35.12
	-122.49	-17.42	-93.84	-54.39	-170.03	19.54
	-4.82	-2.95	-3.67	-2.95	-6.78	-2.95

	14.38	162.00	67.60	124.12	-38.84	224.87
	38.89	375.36	159.42	287.59	-81.65	521.05
1.30	49.36	360.11	158.87	275.71	-60.15	499.90
	23.70	155.41	69.76	118.99	-22.36	215.75
	-3.79	3.46	-2.90	0.32	-5.26	6.60
	-117.51	-11.37	-89.97	-49.47	-163.13	26.73
	-185.74	-20.79	-142.21	-79.61	-257.85	38.02
	-208.48	-24.80	-159.62	-90.09	-289.42	40.48
	-208.48	-24.80	-159.62	-90.09	-289.42	40.48
	-185.74	-23.40	-142.21	-80.91	-257.85	34.11
	-117.51	-16.59	-89.97	-52.08	-163.13	18.91
	-4.71	-2.82	-3.59	-2.82	-6.64	-2.82
	13.28	155.41	64.55	118.99	-38.00	215.75
	36.33	360.11	152.35	275.71	-79.70	499.90
	1.35	48.08	347.08	153.41	265.81	-57.25
23.15		149.79	67.41	114.72	-21.11	207.94
-3.65		3.47	-2.80	0.37	-5.07	6.57
-113.26		-10.96	-86.74	-47.69	-157.22	25.78
-179.02		-20.13	-137.10	-76.80	-248.51	36.53
-200.94		-24.06	-153.89	-86.93	-278.94	38.80
-200.94		-24.06	-153.89	-86.93	-278.94	38.80
-179.02		-22.74	-137.10	-78.10	-248.51	32.62
-113.26		-16.17	-86.74	-50.30	-157.22	17.96
-4.63		-2.72	-3.54	-2.72	-6.53	-2.72
12.72		149.79	62.20	114.72	-36.75	207.94
35.05		347.08	146.89	265.81	-76.80	481.81
1.40	44.85	332.94	146.31	254.57	-56.60	462.24
	21.76	143.69	64.34	109.87	-20.83	199.49
	-3.50	3.51	-2.68	0.45	-4.87	6.56
	-108.64	-9.90	-83.07	-45.37	-150.84	25.57
	-171.73	-18.47	-131.31	-73.13	-238.42	36.19
	-192.75	-22.19	-147.38	-82.82	-267.61	38.43
	-192.75	-22.19	-147.38	-82.82	-267.61	38.43
	-171.73	-21.08	-131.31	-74.43	-238.42	32.28
	-108.64	-15.12	-83.07	-47.98	-150.84	17.75
	-4.53	-2.61	-3.46	-2.61	-6.40	-2.61
	11.33	143.69	59.13	109.87	-36.47	199.49
	31.82	332.94	139.79	254.57	-76.15	462.24
1.45	42.77	320.70	140.61	245.04	-55.07	445.28
	20.86	138.41	61.89	105.75	-20.16	192.17
	-3.38	3.53	-2.58	0.51	-4.69	6.55
	-104.65	-9.22	-79.96	-43.52	-145.30	25.07
	-165.41	-17.40	-126.39	-70.20	-229.67	35.40
	-185.67	-20.99	-141.86	-79.52	-257.79	37.54
	-185.67	-20.99	-141.86	-79.52	-257.79	37.54

	-165.41	-20.00	-126.39	-71.50	-229.67	31.49
	-104.65	-14.44	-79.96	-46.12	-145.30	17.25
	-4.47	-2.51	-3.40	-2.51	-6.32	-2.51
	10.43	138.41	56.67	105.75	-35.81	192.17
	29.74	320.70	134.10	245.04	-74.62	445.28
1.50	41.84	310.29	136.31	237.14	-52.63	430.81
	20.46	133.91	60.03	102.35	-19.11	185.93
	-3.27	3.54	-2.50	0.55	-4.53	6.52
	-101.25	-8.92	-77.38	-42.11	-140.58	24.27
	-160.04	-16.92	-122.32	-67.98	-222.21	34.14
	-179.64	-20.45	-137.29	-77.03	-249.42	36.13
	-179.64	-20.45	-137.29	-77.03	-249.42	36.13
	-160.04	-19.52	-122.32	-69.28	-222.21	30.23
	-101.25	-14.13	-77.38	-44.72	-140.58	16.45
	-4.45	-2.43	-3.36	-2.43	-6.31	-2.43
	10.03	133.91	54.82	102.35	-34.75	185.93
	28.81	310.29	129.80	237.14	-72.18	430.81
1.55	40.97	300.55	132.29	229.77	-50.35	417.28
	20.08	129.71	58.29	99.16	-18.13	180.09
	-3.16	3.55	-2.42	0.60	-4.39	6.50
	-98.07	-8.64	-74.98	-40.80	-136.17	23.53
	-155.02	-16.47	-118.51	-65.90	-215.23	32.97
	-174.00	-19.95	-133.02	-74.70	-241.58	34.81
	-174.00	-19.95	-133.02	-74.70	-241.58	34.81
	-155.02	-19.08	-118.51	-67.21	-215.23	29.05
	-98.07	-13.85	-74.98	-43.41	-136.17	15.71
	-4.44	-2.35	-3.31	-2.35	-6.30	-2.35
	9.66	129.71	53.08	99.16	-33.77	180.09
	27.94	300.55	125.77	229.77	-69.90	417.28
1.60	40.01	291.27	128.37	222.70	-48.35	404.40
	19.67	125.71	56.60	96.11	-17.27	174.53
	-3.07	3.56	-2.34	0.64	-4.26	6.48
	-95.05	-8.32	-72.67	-39.52	-131.96	22.88
	-150.23	-15.97	-114.87	-63.88	-208.58	31.94
	-168.63	-19.39	-128.93	-72.44	-234.12	33.65
	-168.63	-19.39	-128.93	-72.44	-234.12	33.65
	-150.23	-18.58	-114.87	-65.19	-208.58	28.03
	-95.05	-13.54	-72.67	-42.13	-131.96	15.06
	-4.42	-2.28	-3.27	-2.28	-6.29	-2.28
	9.24	125.71	51.39	96.11	-32.91	174.53
	26.98	291.27	121.86	222.70	-67.90	404.40
1.65	39.25	282.70	124.84	216.21	-46.33	392.49
	19.34	122.01	55.08	93.31	-16.39	169.39
	-2.98	3.57	-2.28	0.68	-4.13	6.46
	-92.25	-8.08	-70.55	-38.37	-128.08	22.22

	-145.82	-15.58	-111.52	-62.06	-202.44	30.90
	-163.67	-18.95	-125.17	-70.39	-227.23	32.48
	-163.67	-18.95	-125.17	-70.39	-227.23	32.48
	-145.82	-18.19	-111.52	-63.36	-202.44	26.98
	-92.25	-13.29	-70.55	-40.98	-128.08	14.40
	-4.41	-2.22	-3.24	-2.22	-6.28	-2.22
	8.92	122.01	49.87	93.31	-32.04	169.39
	26.22	282.70	118.32	216.21	-65.88	392.49
1.70	38.54	274.64	121.52	210.10	-44.43	381.29
	19.04	118.53	53.65	90.68	-15.57	164.56
	-2.89	3.57	-2.21	0.71	-4.01	6.44
	-89.62	-7.84	-68.56	-37.29	-124.42	21.60
	-141.66	-15.22	-108.37	-60.35	-196.66	29.91
	-159.00	-18.54	-121.64	-68.47	-220.75	31.38
	-159.00	-18.54	-121.64	-68.47	-220.75	31.38
	-141.66	-17.82	-108.37	-61.65	-196.66	26.00
	-89.62	-13.06	-68.56	-39.89	-124.42	13.78
	-4.40	-2.15	-3.20	-2.15	-6.27	-2.15
	8.61	118.53	48.43	90.68	-31.21	164.56
	25.51	274.64	115.00	210.10	-63.98	381.29
1.75	36.29	265.46	116.80	202.77	-44.22	368.59
	18.07	114.57	51.61	87.51	-15.48	159.08
	-2.79	3.60	-2.13	0.76	-3.88	6.43
	-86.62	-7.11	-66.17	-35.75	-120.28	21.53
	-136.92	-14.06	-104.58	-57.91	-190.12	29.80
	-153.69	-17.24	-117.39	-65.74	-213.39	31.26
	-153.69	-17.24	-117.39	-65.74	-213.39	31.26
	-136.92	-16.66	-104.58	-59.22	-190.12	25.89
	-86.62	-12.32	-66.17	-38.36	-120.28	13.71
	-4.37	-2.08	-3.15	-2.08	-6.24	-2.08
	7.64	114.57	46.40	87.51	-31.12	159.08
	23.26	265.46	110.29	202.77	-63.77	368.59
1.80	35.71	258.33	113.89	197.38	-42.47	358.68
	17.81	111.49	50.35	85.18	-14.73	154.80
	-2.72	3.60	-2.08	0.79	-3.78	6.42
	-84.30	-6.92	-64.41	-34.80	-117.04	20.96
	-133.24	-13.75	-101.80	-56.41	-185.00	28.91
	-149.56	-16.90	-114.27	-64.05	-207.66	30.25
	-149.56	-16.90	-114.27	-64.05	-207.66	30.25
	-133.24	-16.36	-101.80	-57.72	-185.00	24.99
	-84.30	-12.13	-64.41	-37.40	-117.04	13.14
	-4.36	-2.02	-3.12	-2.02	-6.23	-2.02
	7.38	111.49	45.14	85.18	-30.37	154.80
	22.67	258.33	107.37	197.38	-62.03	358.68
1.85	35.16	251.58	111.14	192.28	-40.83	349.30

	17.57	108.58	49.17	82.98	-14.02	150.75
	-2.65	3.61	-2.02	0.82	-3.68	6.40
	-82.10	-6.74	-62.74	-33.90	-113.98	20.42
	-129.76	-13.47	-99.17	-54.99	-180.17	28.05
	-145.65	-16.58	-111.32	-62.46	-202.23	29.30
	-145.65	-16.58	-111.32	-62.46	-202.23	29.30
	-129.76	-16.08	-99.17	-56.30	-180.17	24.14
	-82.10	-11.95	-62.74	-36.51	-113.98	12.60
	-4.35	-1.97	-3.09	-1.97	-6.23	-1.97
	7.15	108.58	43.95	82.98	-29.66	150.75
	22.12	251.58	104.62	192.28	-60.38	349.30
	34.64	245.19	108.53	187.45	-39.26	340.43
	17.35	105.82	48.04	80.90	-13.34	146.92
	-2.58	3.61	-1.97	0.85	-3.58	6.38
	-80.01	-6.57	-61.17	-33.05	-111.09	19.91
	-126.47	-13.20	-96.68	-53.65	-175.59	27.25
	-141.95	-16.28	-108.52	-60.95	-197.09	28.39
	-141.95	-16.28	-108.52	-60.95	-197.09	28.39
	-126.47	-15.81	-96.68	-54.95	-175.59	23.34
	-80.01	-11.78	-61.17	-35.66	-111.09	12.09
	-4.34	-1.92	-3.06	-1.92	-6.22	-1.92
	6.92	105.82	42.83	80.90	-28.98	146.92
	21.60	245.19	102.01	187.45	-58.81	340.43
	34.14	239.13	106.06	182.87	-37.78	332.00
	17.14	103.21	46.97	78.92	-12.70	143.29
	-2.52	3.62	-1.92	0.87	-3.49	6.37
	-78.03	-6.41	-59.67	-32.24	-108.34	19.43
	-123.34	-12.95	-94.32	-52.37	-171.24	26.48
	-138.45	-15.99	-105.87	-59.52	-192.21	27.53
	-138.45	-15.99	-105.87	-59.52	-192.21	27.53
	-123.34	-15.55	-94.32	-53.68	-171.24	22.57
	-78.03	-11.62	-59.67	-34.85	-108.34	11.61
	-4.33	-1.87	-3.04	-1.87	-6.21	-1.87
	6.71	103.21	41.76	78.92	-28.34	143.29
	21.11	239.13	99.54	182.87	-57.33	332.00
	33.67	233.38	103.71	178.52	-36.36	324.01
	16.93	100.72	45.96	77.05	-12.09	139.83
	-2.46	3.62	-1.88	0.90	-3.41	6.35
	-76.16	-6.26	-58.25	-31.48	-105.73	18.97
	-120.37	-12.70	-92.08	-51.16	-167.12	25.75
	-135.11	-15.72	-103.36	-58.16	-187.58	26.71
	-135.11	-15.72	-103.36	-58.16	-187.58	26.71
	-120.37	-15.31	-92.08	-52.47	-167.12	21.84
	-76.16	-11.47	-58.25	-34.08	-105.73	11.15
	-4.32	-1.83	-3.01	-1.83	-6.21	-1.83

	6.51	100.72	40.75	77.05	-27.73	139.83
	20.64	233.38	97.20	178.52	-55.92	324.01
2.05	32.24	226.92	100.49	173.40	-36.01	315.06
	16.32	97.93	44.57	74.83	-11.94	135.97
	-2.39	3.64	-1.83	0.93	-3.32	6.35
	-74.05	-5.79	-56.58	-30.43	-102.81	18.85
	-117.04	-11.96	-89.44	-49.50	-162.51	25.57
	-131.37	-14.89	-100.39	-56.29	-182.40	26.51
	-131.37	-14.89	-100.39	-56.29	-182.40	26.51
	-117.04	-14.57	-89.44	-50.80	-162.51	21.66
	-74.05	-11.00	-56.58	-33.03	-102.81	11.03
	-4.30	-1.78	-2.98	-1.78	-6.19	-1.78
	5.89	97.93	39.36	74.83	-27.58	135.97
	19.21	226.92	93.97	173.40	-55.56	315.06
2.10	31.84	221.72	98.38	169.48	-34.71	307.84
	16.14	95.69	43.66	73.14	-11.38	132.86
	-2.33	3.64	-1.78	0.95	-3.24	6.33
	-72.35	-5.66	-55.30	-29.74	-100.45	18.43
	-114.36	-11.76	-87.41	-48.41	-158.78	24.90
	-128.36	-14.66	-98.12	-55.07	-178.22	25.76
	-128.36	-14.66	-98.12	-55.07	-178.22	25.76
	-114.36	-14.36	-87.41	-49.72	-158.78	20.99
	-72.35	-10.87	-55.30	-32.34	-100.45	10.61
	-4.30	-1.74	-2.96	-1.74	-6.18	-1.74
	5.71	95.69	38.45	73.14	-27.02	132.86
	18.80	221.72	91.87	169.48	-54.26	307.84
2.15	31.45	216.77	96.38	165.74	-33.47	300.96
	15.97	93.55	42.79	71.53	-10.84	129.89
	-2.28	3.65	-1.74	0.98	-3.17	6.32
	-70.73	-5.53	-54.08	-29.08	-98.21	18.02
	-111.81	-11.56	-85.49	-47.38	-155.23	24.26
	-125.50	-14.44	-95.95	-53.91	-174.24	25.04
	-125.50	-14.44	-95.95	-53.91	-174.24	25.04
	-111.81	-14.16	-85.49	-48.68	-155.23	20.35
	-70.73	-10.74	-54.08	-31.69	-98.21	10.20
	-4.29	-1.70	-2.94	-1.70	-6.18	-1.70
	5.55	93.55	37.58	71.53	-26.49	129.89
	18.42	216.77	89.86	165.74	-53.03	300.96
2.20	30.00	210.96	93.38	161.09	-33.37	292.92
	15.35	91.05	41.50	69.52	-10.80	126.42
	-2.22	3.66	-1.70	1.01	-3.08	6.32
	-68.84	-5.06	-52.57	-28.10	-95.59	17.99
	-108.81	-10.81	-83.09	-45.83	-151.09	24.21
	-122.13	-13.60	-93.26	-52.17	-169.59	24.98
	-122.13	-13.60	-93.26	-52.17	-169.59	24.98

		-108.81	-13.42	-83.09	-47.13	-151.09	20.30
		-68.84	-10.27	-52.57	-30.71	-95.59	10.17
		-4.27	-1.65	-2.90	-1.65	-6.16	-1.65
		4.92	91.05	36.29	69.52	-26.44	126.42
		16.97	210.96	86.86	161.09	-52.93	292.92
2.25		29.68	206.47	91.57	157.71	-32.22	286.68
		15.21	89.11	40.72	68.06	-10.30	123.73
		-2.17	3.67	-1.66	1.03	-3.02	6.31
		-67.37	-4.95	-51.46	-27.51	-93.55	17.61
		-106.49	-10.64	-81.34	-44.90	-147.87	23.62
		-119.53	-13.41	-91.30	-51.13	-165.97	24.31
		-119.53	-13.41	-91.30	-51.13	-165.97	24.31
		-106.49	-13.25	-81.34	-46.20	-147.87	19.70
		-67.37	-10.16	-51.46	-30.12	-93.55	9.79
		-4.27	-1.62	-2.88	-1.62	-6.16	-1.62
		4.78	89.11	35.51	68.06	-25.94	123.73
		16.64	206.47	85.05	157.71	-51.77	286.68
2.30		29.37	202.17	89.85	154.47	-31.11	280.71
		15.08	87.25	39.98	66.67	-9.83	121.15
		-2.13	3.67	-1.63	1.04	-2.95	6.30
		-65.97	-4.85	-50.41	-26.95	-91.60	17.25
		-104.28	-10.48	-79.67	-44.01	-144.79	23.04
		-117.05	-13.23	-89.43	-50.13	-162.52	23.67
		-117.05	-13.23	-89.43	-50.13	-162.52	23.67
		-104.28	-13.09	-79.67	-45.31	-144.79	19.13
		-65.97	-10.06	-50.41	-29.56	-91.60	9.43
		-4.26	-1.58	-2.87	-1.58	-6.15	-1.58
		4.65	87.25	34.76	66.67	-25.47	121.15
		16.33	202.17	83.33	154.47	-50.66	280.71
2.35		29.07	198.06	88.19	151.38	-30.05	275.00
		14.95	85.48	39.26	65.33	-9.37	118.68
		-2.08	3.67	-1.59	1.06	-2.89	6.28
		-64.63	-4.75	-49.40	-26.41	-89.74	16.91
		-102.16	-10.33	-78.08	-43.16	-141.84	22.50
		-114.67	-13.06	-87.64	-49.17	-159.21	23.06
		-114.67	-13.06	-87.64	-49.17	-159.21	23.06
		-102.16	-12.94	-78.08	-44.46	-141.84	18.59
		-64.63	-9.97	-49.40	-29.02	-89.74	9.09
		-4.25	-1.55	-2.85	-1.55	-6.15	-1.55
		4.52	85.48	34.05	65.33	-25.01	118.68
		16.04	198.06	81.68	151.38	-49.60	275.00
2.40		28.09	193.43	85.92	147.71	-29.73	268.58
		14.53	83.48	38.28	63.75	-9.23	115.91
		-2.04	3.68	-1.55	1.09	-2.83	6.28
		-63.12	-4.43	-48.20	-25.67	-87.64	16.80

	-99.77	-9.83	-76.19	-41.98	-138.53	22.33
	-111.98	-12.49	-85.52	-47.85	-155.49	22.87
	-111.98	-12.49	-85.52	-47.85	-155.49	22.87
	-99.77	-12.43	-76.19	-43.29	-138.53	18.42
	-63.12	-9.65	-48.20	-28.28	-87.64	8.98
	-4.24	-1.51	-2.83	-1.51	-6.14	-1.51
	4.10	83.48	33.07	63.75	-24.87	115.91
	15.06	193.43	79.40	147.71	-49.28	268.58
2.45	27.83	189.66	84.41	144.88	-28.75	263.34
	14.41	81.85	37.63	62.53	-8.80	113.65
	-2.00	3.69	-1.53	1.10	-2.77	6.27
	-61.89	-4.35	-47.28	-25.18	-85.93	16.48
	-97.82	-9.69	-74.73	-41.20	-135.83	21.82
	-109.80	-12.34	-83.88	-46.98	-152.46	22.30
	-109.80	-12.34	-83.88	-46.98	-152.46	22.30
	-97.82	-12.30	-74.73	-42.51	-135.83	17.91
	-61.89	-9.56	-47.28	-27.78	-85.93	8.66
	-4.24	-1.48	-2.81	-1.48	-6.13	-1.48
	3.98	81.85	32.41	62.53	-24.45	113.65
	14.80	189.66	77.89	144.88	-48.30	263.34
2.50	27.58	186.04	82.96	142.15	-27.80	258.31
	14.30	80.29	37.00	61.35	-8.40	111.48
	-1.96	3.69	-1.50	1.12	-2.72	6.26
	-60.71	-4.27	-46.39	-24.70	-84.29	16.17
	-95.96	-9.56	-73.32	-40.46	-133.23	21.34
	-107.71	-12.19	-82.30	-46.14	-149.55	21.75
	-107.71	-12.19	-82.30	-46.14	-149.55	21.75
	-95.96	-12.17	-73.32	-41.76	-133.23	17.43
	-60.71	-9.48	-46.39	-27.31	-84.29	8.35
	-4.23	-1.46	-2.79	-1.46	-6.13	-1.46
	3.88	80.29	31.79	61.35	-24.04	111.48
	14.54	186.04	76.44	142.15	-47.35	258.31
2.55	27.34	182.56	81.57	139.54	-26.89	253.48
	14.20	78.79	36.40	60.22	-8.00	109.39
	-1.92	3.69	-1.47	1.13	-2.67	6.25
	-59.57	-4.19	-45.53	-24.25	-82.71	15.88
	-94.16	-9.44	-71.97	-39.74	-130.74	20.87
	-105.69	-12.05	-80.79	-45.34	-146.75	21.23
	-105.69	-12.05	-80.79	-45.34	-146.75	21.23
	-94.16	-12.04	-71.97	-41.04	-130.74	16.96
	-59.57	-9.40	-45.53	-26.86	-82.71	8.05
	-4.23	-1.43	-2.78	-1.43	-6.13	-1.43
	3.77	78.79	31.19	60.22	-23.65	109.39
	14.30	182.56	75.05	139.54	-46.44	253.48
2.60	27.11	179.22	80.23	137.02	-26.02	248.83

	14.10	77.35	35.83	59.14	-7.63	107.39
	-1.89	3.69	-1.44	1.14	-2.62	6.24
	-58.48	-4.11	-44.71	-23.81	-81.20	15.59
	-92.44	-9.32	-70.68	-39.05	-128.34	20.42
	-103.76	-11.92	-79.33	-44.56	-144.06	20.72
	-103.76	-11.92	-79.33	-44.56	-144.06	20.72
	-92.44	-11.92	-70.68	-40.35	-128.34	16.51
	-58.48	-9.33	-44.71	-26.42	-81.20	7.77
	-4.22	-1.40	-2.77	-1.40	-6.12	-1.40
	3.67	77.35	30.61	59.14	-23.27	107.39
	14.07	179.22	73.71	137.02	-45.57	248.83
	26.88	176.01	78.95	134.61	-25.18	244.36
	14.00	75.96	35.27	58.09	-7.26	105.46
	-1.85	3.70	-1.42	1.16	-2.57	6.23
	-57.43	-4.04	-43.92	-23.39	-79.74	15.32
	-90.78	-9.20	-69.43	-38.39	-126.04	19.98
	-101.90	-11.79	-77.93	-43.82	-141.47	20.23
	-101.90	-11.79	-77.93	-43.82	-141.47	20.23
	-90.78	-11.81	-69.43	-39.69	-126.04	16.07
	-57.43	-9.25	-43.92	-26.00	-79.74	7.49
	-4.22	-1.38	-2.75	-1.38	-6.12	-1.38
	3.58	75.96	30.06	58.09	-22.90	105.46
	13.85	176.01	72.43	134.61	-44.73	244.36
	26.67	172.91	77.71	132.28	-24.36	240.06
	13.91	74.62	34.74	57.09	-6.91	103.60
	-1.82	3.70	-1.39	1.17	-2.53	6.22
	-56.42	-3.97	-43.16	-22.99	-78.33	15.05
	-89.19	-9.09	-68.23	-37.75	-123.82	19.56
	-100.11	-11.67	-76.58	-43.10	-138.98	19.77
	-100.11	-11.67	-76.58	-43.10	-138.98	19.77
	-89.19	-11.70	-68.23	-39.05	-123.82	15.65
	-56.42	-9.18	-43.16	-25.60	-78.33	7.23
	-4.22	-1.36	-2.74	-1.36	-6.12	-1.36
	3.48	74.62	29.52	57.09	-22.55	103.60
	13.64	172.91	71.19	132.28	-43.92	240.06
	26.47	169.93	76.52	130.03	-23.58	235.91
	13.82	73.34	34.22	56.12	-6.58	101.81
	-1.79	3.70	-1.37	1.18	-2.48	6.22
	-55.45	-3.90	-42.43	-22.60	-76.98	14.80
	-87.65	-8.99	-67.07	-37.13	-121.68	19.16
	-98.38	-11.55	-75.28	-42.41	-136.58	19.31
	-98.38	-11.55	-75.28	-42.41	-136.58	19.31
	-87.65	-11.59	-67.07	-38.44	-121.68	15.25
	-55.45	-9.12	-42.43	-25.21	-76.98	6.97
	-4.21	-1.33	-2.73	-1.33	-6.12	-1.33

	3.40	73.34	29.01	56.12	-22.22	101.81
	13.43	169.93	70.00	130.03	-43.13	235.91
2.80	26.27	167.05	75.37	127.87	-22.83	231.91
	13.74	72.10	33.73	55.19	-6.25	100.09
	-1.76	3.70	-1.35	1.20	-2.44	6.21
	-54.51	-3.84	-41.73	-22.23	-75.68	14.55
	-86.16	-8.88	-65.95	-36.54	-119.62	18.77
	-96.72	-11.44	-74.03	-41.75	-134.26	18.88
	-96.72	-11.44	-74.03	-41.75	-134.26	18.88
	-86.16	-11.49	-65.95	-37.84	-119.62	14.86
	-54.51	-9.05	-41.73	-24.83	-75.68	6.73
	-4.21	-1.31	-2.71	-1.31	-6.12	-1.31
	3.31	72.10	28.51	55.19	-21.89	100.09
	13.24	167.05	68.85	127.87	-42.38	231.91
	2.85	26.08	164.28	74.26	125.78	-22.10
13.66		70.90	33.25	54.29	-5.94	98.42
-1.73		3.70	-1.32	1.21	-2.40	6.20
-53.61		-3.78	-41.05	-21.87	-74.42	14.31
-84.73		-8.79	-64.88	-35.97	-117.63	18.40
-95.11		-11.33	-72.82	-41.11	-132.03	18.45
-95.11		-11.33	-72.82	-41.11	-132.03	18.45
-84.73		-11.39	-64.88	-37.27	-117.63	14.48
-53.61		-8.99	-41.05	-24.47	-74.42	6.49
-4.20		-1.29	-2.70	-1.29	-6.11	-1.29
3.23		70.90	28.04	54.29	-21.58	98.42
13.05		164.28	67.74	125.78	-41.65	228.05
2.90		25.90	161.60	73.19	123.77	-21.39
	13.58	69.74	32.79	53.42	-5.63	96.82
	-1.70	3.71	-1.30	1.22	-2.36	6.19
	-52.73	-3.72	-40.39	-21.52	-73.20	14.08
	-83.35	-8.69	-63.84	-35.42	-115.71	18.03
	-93.56	-11.22	-71.66	-40.49	-129.88	18.05
	-93.56	-11.22	-71.66	-40.49	-129.88	18.05
	-83.35	-11.30	-63.84	-36.72	-115.71	14.12
	-52.73	-8.93	-40.39	-24.12	-73.20	6.26
	-4.20	-1.27	-2.69	-1.27	-6.11	-1.27
	3.15	69.74	27.57	53.42	-21.27	96.82
	12.86	161.60	66.67	123.77	-40.95	224.33
	2.95	25.72	159.02	72.16	121.83	-20.71
13.50		68.63	32.34	52.58	-5.34	95.26
-1.67		3.71	-1.28	1.23	-2.32	6.19
-51.89		-3.66	-39.75	-21.18	-72.03	13.86
-82.02		-8.60	-62.84	-34.89	-113.85	17.68
-92.06		-11.12	-70.53	-39.89	-127.79	17.65
-92.06		-11.12	-70.53	-39.89	-127.79	17.65

	-82.02	-11.21	-62.84	-36.19	-113.85	13.77
	-51.89	-8.87	-39.75	-23.79	-72.03	6.04
	-4.20	-1.25	-2.68	-1.25	-6.11	-1.25
	3.07	68.63	27.13	52.58	-20.98	95.26
	12.69	159.02	65.64	121.83	-40.26	220.74
3.00	25.55	156.52	71.16	119.95	-20.05	217.26
	13.43	67.55	31.91	51.77	-5.05	93.76
	-1.65	3.71	-1.26	1.24	-2.29	6.18
	-51.07	-3.60	-39.14	-20.85	-70.90	13.64
	-80.73	-8.51	-61.87	-34.37	-112.06	17.34
	-90.61	-11.02	-69.44	-39.31	-125.78	17.27
	-90.61	-11.02	-69.44	-39.31	-125.78	17.27
	-80.73	-11.12	-61.87	-35.67	-112.06	13.43
	-51.07	-8.82	-39.14	-23.46	-70.90	5.82
	-4.19	-1.23	-2.67	-1.23	-6.11	-1.23
	3.00	67.55	26.70	51.77	-20.69	93.76
	12.52	156.52	64.64	119.95	-39.61	217.26
3.05	25.39	154.10	70.19	118.13	-19.42	213.90
	13.36	66.51	31.49	50.98	-4.78	92.31
	-1.62	3.71	-1.24	1.25	-2.25	6.17
	-50.28	-3.55	-38.55	-20.54	-69.80	13.44
	-79.48	-8.43	-60.93	-33.87	-110.33	17.01
	-89.22	-10.93	-68.39	-38.75	-123.84	16.90
	-89.22	-10.93	-68.39	-38.75	-123.84	16.90
	-79.48	-11.04	-60.93	-35.18	-110.33	13.10
	-50.28	-8.77	-38.55	-23.15	-69.80	5.62
	-4.19	-1.21	-2.66	-1.21	-6.11	-1.21
	2.93	66.51	26.28	50.98	-20.42	92.31
	12.35	154.10	63.68	118.13	-38.97	213.90
3.10	25.23	151.76	69.26	116.37	-18.80	210.65
	13.29	65.50	31.09	50.22	-4.51	90.91
	-1.60	3.71	-1.22	1.26	-2.22	6.17
	-49.52	-3.50	-37.97	-20.23	-68.74	13.23
	-78.28	-8.35	-60.02	-33.39	-108.65	16.69
	-87.86	-10.83	-67.37	-38.21	-121.95	16.54
	-87.86	-10.83	-67.37	-38.21	-121.95	16.54
	-78.28	-10.96	-60.02	-34.70	-108.65	12.78
	-49.52	-8.71	-37.97	-22.84	-68.74	5.41
	-4.19	-1.19	-2.65	-1.19	-6.10	-1.19
	2.86	65.50	25.88	50.22	-20.15	90.91
	12.20	151.76	62.74	116.37	-38.35	210.65
3.15	25.08	149.50	68.36	114.67	-18.20	207.50
	13.22	64.52	30.70	49.49	-4.25	89.55
	-1.57	3.71	-1.21	1.27	-2.18	6.16
	-48.78	-3.45	-37.42	-19.94	-67.71	13.04

	-77.11	-8.27	-59.14	-32.93	-107.03	16.39
	-86.55	-10.75	-66.39	-37.69	-120.13	16.20
	-86.55	-10.75	-66.39	-37.69	-120.13	16.20
	-77.11	-10.88	-59.14	-34.23	-107.03	12.47
	-48.78	-8.66	-37.42	-22.55	-67.71	5.22
	-4.19	-1.18	-2.64	-1.18	-6.10	-1.18
	2.80	64.52	25.49	49.49	-19.89	89.55
	12.04	149.50	61.84	114.67	-37.75	207.50
3.20	24.93	147.30	67.48	113.02	-17.62	204.45
	13.16	63.57	30.33	48.78	-4.00	88.24
	-1.55	3.72	-1.19	1.28	-2.15	6.15
	-48.07	-3.40	-36.88	-19.65	-66.71	12.85
	-75.98	-8.19	-58.29	-32.47	-105.45	16.09
	-85.28	-10.66	-65.43	-37.18	-118.36	15.86
	-85.28	-10.66	-65.43	-37.18	-118.36	15.86
	-75.98	-10.80	-58.29	-33.78	-105.45	12.18
	-48.07	-8.62	-36.88	-22.26	-66.71	5.03
	-4.18	-1.16	-2.63	-1.16	-6.10	-1.16
	2.73	63.57	25.11	48.78	-19.64	88.24
	11.90	147.30	60.97	113.02	-37.17	204.45
3.25	24.79	145.18	66.64	111.42	-17.06	201.49
	13.10	62.66	29.96	48.09	-3.76	86.96
	-1.53	3.72	-1.17	1.29	-2.12	6.15
	-47.37	-3.36	-36.36	-19.38	-65.75	12.67
	-74.88	-8.12	-57.47	-32.04	-103.93	15.80
	-84.05	-10.58	-64.51	-36.69	-116.65	15.54
	-84.05	-10.58	-64.51	-36.69	-116.65	15.54
	-74.88	-10.73	-57.47	-33.34	-103.93	11.89
	-47.37	-8.57	-36.36	-21.98	-65.75	4.85
	-4.18	-1.14	-2.62	-1.14	-6.10	-1.14
	2.67	62.66	24.75	48.09	-19.40	86.96
	11.75	145.18	60.12	111.42	-36.61	201.49
3.30	24.65	143.12	65.81	109.87	-16.51	198.63
	13.04	61.77	29.60	47.42	-3.53	85.72
	-1.51	3.72	-1.16	1.30	-2.09	6.14
	-46.70	-3.31	-35.85	-19.11	-64.82	12.49
	-73.82	-8.05	-56.67	-31.61	-102.45	15.51
	-82.86	-10.50	-63.61	-36.22	-114.99	15.22
	-82.86	-10.50	-63.61	-36.22	-114.99	15.22
	-73.82	-10.66	-56.67	-32.92	-102.45	11.60
	-46.70	-8.52	-35.85	-21.72	-64.82	4.67
	-4.18	-1.13	-2.61	-1.13	-6.10	-1.13
	2.61	61.77	24.39	47.42	-19.17	85.72
	11.62	143.12	59.30	109.87	-36.07	198.63
3.35	24.52	141.12	65.02	108.37	-15.98	195.85

	12.98	60.90	29.26	46.77	-3.30	84.52
	-1.49	3.72	-1.14	1.31	-2.06	6.14
	-46.05	-3.27	-35.36	-18.85	-63.91	12.32
	-72.79	-7.98	-55.89	-31.20	-101.02	15.24
	-81.70	-10.42	-62.74	-35.76	-113.39	14.91
	-81.70	-10.42	-62.74	-35.76	-113.39	14.91
	-72.79	-10.59	-55.89	-32.51	-101.02	11.33
	-46.05	-8.48	-35.36	-21.46	-63.91	4.50
	-4.17	-1.11	-2.61	-1.11	-6.10	-1.11
	2.55	60.90	24.05	46.77	-18.94	84.52
	11.48	141.12	58.50	108.37	-35.54	195.85
	24.39	139.18	64.25	106.91	-15.47	193.15
	12.93	60.07	28.93	46.14	-3.07	83.36
	-1.47	3.72	-1.13	1.31	-2.03	6.13
	-45.42	-3.22	-34.89	-18.60	-63.03	12.15
	-71.79	-7.91	-55.14	-30.80	-99.63	14.98
	-80.58	-10.35	-61.89	-35.31	-111.82	14.62
	-80.58	-10.35	-61.89	-35.31	-111.82	14.62
	-71.79	-10.52	-55.14	-32.11	-99.63	11.07
	-45.42	-8.44	-34.89	-21.20	-63.03	4.33
	-4.17	-1.10	-2.60	-1.10	-6.09	-1.10
	2.50	60.07	23.71	46.14	-18.72	83.36
	11.35	139.18	57.73	106.91	-35.02	193.15
	24.26	137.29	63.50	105.49	-14.97	190.53
	12.87	59.25	28.60	45.53	-2.86	82.23
	-1.45	3.72	-1.11	1.32	-2.01	6.13
	-44.80	-3.18	-34.42	-18.35	-62.17	11.99
	-70.81	-7.85	-54.41	-30.42	-98.27	14.72
	-79.49	-10.27	-61.08	-34.87	-110.31	14.33
	-79.49	-10.27	-61.08	-34.87	-110.31	14.33
	-70.81	-10.46	-54.41	-31.72	-98.27	10.81
	-44.80	-8.40	-34.42	-20.96	-62.17	4.16
	-4.17	-1.08	-2.59	-1.08	-6.09	-1.08
	2.44	59.25	23.39	45.53	-18.50	82.23
	11.23	137.29	56.98	105.49	-34.52	190.53
	24.14	135.47	62.77	104.12	-14.48	187.99
	12.82	58.46	28.29	44.94	-2.65	81.13
	-1.43	3.72	-1.10	1.33	-1.98	6.12
	-44.20	-3.14	-33.98	-18.12	-61.34	11.83
	-69.87	-7.79	-53.70	-30.04	-96.96	14.47
	-78.43	-10.20	-60.28	-34.45	-108.84	14.05
	-78.43	-10.20	-60.28	-34.45	-108.84	14.05
	-69.87	-10.39	-53.70	-31.35	-96.96	10.56
	-44.20	-8.36	-33.98	-20.72	-61.34	4.01
	-4.17	-1.07	-2.58	-1.07	-6.09	-1.07

	2.39	58.46	23.08	44.94	-18.29	81.13
	11.11	135.47	56.25	104.12	-34.04	187.99
3.55	24.02	133.69	62.06	102.78	-14.01	185.52
	12.77	57.70	27.98	44.36	-2.45	80.07
	-1.41	3.73	-1.08	1.34	-1.95	6.12
	-43.62	-3.11	-33.54	-17.88	-60.54	11.67
	-68.95	-7.73	-53.01	-29.68	-95.69	14.22
	-77.40	-10.14	-59.51	-34.04	-107.40	13.77
	-77.40	-10.14	-59.51	-34.04	-107.40	13.77
	-68.95	-10.33	-53.01	-30.98	-95.69	10.31
	-43.62	-8.32	-33.54	-20.49	-60.54	3.85
	-4.17	-1.05	-2.57	-1.05	-6.09	-1.05
	2.34	57.70	22.77	44.36	-18.09	80.07
	10.99	133.69	55.54	102.78	-33.56	185.52
	3.60	23.91	131.96	61.37	101.48	-13.55
12.72		56.95	27.69	43.80	-2.25	79.03
-1.39		3.73	-1.07	1.34	-1.93	6.11
-43.06		-3.07	-33.12	-17.66	-59.75	11.52
-68.06		-7.67	-52.34	-29.32	-94.45	13.99
-76.40		-10.07	-58.75	-33.64	-106.01	13.51
-76.40		-10.07	-58.75	-33.64	-106.01	13.51
-68.06		-10.27	-52.34	-30.63	-94.45	10.08
-43.06		-8.28	-33.12	-20.27	-59.75	3.70
-4.16		-1.04	-2.57	-1.04	-6.09	-1.04
2.29		56.95	22.47	43.80	-17.89	79.03
10.88		131.96	54.85	101.48	-33.10	183.11
3.65	23.80	130.28	60.70	100.22	-13.11	180.78
	12.67	56.23	27.40	43.25	-2.05	78.02
	-1.37	3.73	-1.05	1.35	-1.90	6.11
	-42.51	-3.03	-32.70	-17.44	-58.99	11.38
	-67.20	-7.61	-51.69	-28.98	-93.24	13.76
	-75.43	-10.01	-58.02	-33.26	-104.66	13.25
	-75.43	-10.01	-58.02	-33.26	-104.66	13.25
	-67.20	-10.22	-51.69	-30.28	-93.24	9.85
	-42.51	-8.25	-32.70	-20.05	-58.99	3.56
	-4.16	-1.03	-2.56	-1.03	-6.09	-1.03
	2.24	56.23	22.18	43.25	-17.70	78.02
	10.76	130.28	54.19	100.22	-32.66	180.78
3.70	23.69	128.65	60.05	98.99	-12.67	178.51
	12.63	55.52	27.12	42.72	-1.87	77.04
	-1.35	3.73	-1.04	1.36	-1.88	6.10
	-41.98	-3.00	-32.30	-17.23	-58.25	11.23
	-66.35	-7.55	-51.06	-28.64	-92.07	13.53
	-74.48	-9.94	-57.31	-32.88	-103.35	13.00
	-74.48	-9.94	-57.31	-32.88	-103.35	13.00

		-66.35	-10.16	-51.06	-29.95	-92.07	9.62
		-41.98	-8.21	-32.30	-19.84	-58.25	3.41
		-4.16	-1.01	-2.55	-1.01	-6.09	-1.01
		2.20	55.52	21.90	42.72	-17.51	77.04
		10.66	128.65	53.54	98.99	-32.22	178.51
		23.59	127.05	59.42	97.80	-12.25	176.29
		12.58	54.83	26.85	42.21	-1.68	76.08
		-1.34	3.73	-1.03	1.36	-1.86	6.10
		-41.46	-2.96	-31.91	-17.02	-57.53	11.10
		-65.53	-7.50	-50.44	-28.32	-90.93	13.31
		-73.56	-9.88	-56.62	-32.51	-102.06	12.75
		-73.56	-9.88	-56.62	-32.51	-102.06	12.75
		-65.53	-10.11	-50.44	-29.62	-90.93	9.40
		-41.46	-8.18	-31.91	-19.63	-57.53	3.28
		-4.16	-1.00	-2.55	-1.00	-6.09	-1.00
		2.15	54.83	21.63	42.21	-17.33	76.08
		10.55	127.05	52.90	97.80	-31.80	176.29
		23.49	125.51	58.80	96.63	-11.83	174.14
		12.54	54.17	26.58	41.71	-1.51	75.16
		-1.32	3.73	-1.02	1.37	-1.83	6.09
		-40.95	-2.93	-31.53	-16.82	-56.82	10.96
		-64.73	-7.45	-49.84	-28.00	-89.82	13.10
		-72.66	-9.82	-55.95	-32.16	-100.82	12.51
		-72.66	-9.82	-55.95	-32.16	-100.82	12.51
		-64.73	-10.06	-49.84	-29.30	-89.82	9.19
		-40.95	-8.14	-31.53	-19.43	-56.82	3.14
		-4.16	-0.99	-2.54	-0.99	-6.08	-0.99
		2.11	54.17	21.37	41.71	-17.15	75.16
		10.45	125.51	52.29	96.63	-31.39	174.14
		23.39	124.00	58.20	95.50	-11.43	172.04
		12.49	53.51	26.32	41.22	-1.33	74.25
		-1.31	3.73	-1.01	1.38	-1.81	6.09
		-40.46	-2.90	-31.16	-16.63	-56.14	10.83
		-63.96	-7.40	-49.26	-27.69	-88.74	12.89
		-71.79	-9.77	-55.29	-31.81	-99.60	12.28
		-71.79	-9.77	-55.29	-31.81	-99.60	12.28
		-63.96	-10.00	-49.26	-28.99	-88.74	8.98
		-40.46	-8.11	-31.16	-19.23	-56.14	3.01
		-4.15	-0.98	-2.53	-0.98	-6.08	-0.98
		2.07	53.51	21.11	41.22	-16.97	74.25
		10.35	124.00	51.69	95.50	-30.98	172.04
		23.29	122.53	57.62	94.40	-11.04	170.00
		12.45	52.88	26.07	40.74	-1.16	73.37
		-1.29	3.73	-0.99	1.38	-1.79	6.08
		-39.98	-2.87	-30.80	-16.44	-55.47	10.70

	-63.20	-7.35	-48.69	-27.39	-87.68	12.69
	-70.94	-9.71	-54.65	-31.47	-98.42	12.05
	-70.94	-9.71	-54.65	-31.47	-98.42	12.05
	-63.20	-9.96	-48.69	-28.69	-87.68	8.78
	-39.98	-8.08	-30.80	-19.04	-55.47	2.88
	-4.15	-0.97	-2.53	-0.97	-6.08	-0.97
	2.03	52.88	20.85	40.74	-16.80	73.37
	10.26	122.53	51.10	94.40	-30.59	170.00
3.95	23.20	121.10	57.05	93.32	-10.66	168.01
	12.41	52.26	25.82	40.28	-1.00	72.51
	-1.27	3.73	-0.98	1.39	-1.77	6.08
	-39.52	-2.84	-30.45	-16.25	-54.82	10.58
	-62.46	-7.30	-48.13	-27.09	-86.66	12.49
	-70.11	-9.66	-54.03	-31.14	-97.27	11.83
	-70.11	-9.66	-54.03	-31.14	-97.27	11.83
	-62.46	-9.91	-48.13	-28.40	-86.66	8.58
	-39.52	-8.05	-30.45	-18.86	-54.82	2.76
	-4.15	-0.96	-2.52	-0.96	-6.08	-0.96
	1.99	52.26	20.61	40.28	-16.64	72.51
	10.16	121.10	50.53	93.32	-30.21	168.01
4.00	23.11	119.70	56.50	92.27	-10.28	166.07
	12.37	51.66	25.58	39.82	-0.84	71.67
	-1.26	3.74	-0.97	1.39	-1.75	6.08
	-39.06	-2.81	-30.11	-16.07	-54.19	10.46
	-61.74	-7.25	-47.59	-26.81	-85.66	12.30
	-69.30	-9.60	-53.42	-30.82	-96.14	11.61
	-69.30	-9.60	-53.42	-30.82	-96.14	11.61
	-61.74	-9.86	-47.59	-28.11	-85.66	8.39
	-39.06	-8.02	-30.11	-18.68	-54.19	2.64
	-4.15	-0.95	-2.52	-0.95	-6.08	-0.95
	1.95	51.66	20.37	39.82	-16.48	71.67
	10.07	119.70	49.98	92.27	-29.84	166.07
4.05	23.02	118.34	55.96	91.25	-9.92	164.17
	12.34	51.07	25.35	39.38	-0.68	70.85
	-1.25	3.74	-0.96	1.40	-1.73	6.07
	-38.62	-2.78	-29.78	-15.89	-53.57	10.34
	-61.04	-7.21	-47.07	-26.53	-84.68	12.11
	-68.51	-9.55	-52.83	-30.51	-95.05	11.40
	-68.51	-9.55	-52.83	-30.51	-95.05	11.40
	-61.04	-9.81	-47.07	-27.83	-84.68	8.20
	-38.62	-7.99	-29.78	-18.50	-53.57	2.52
	-4.15	-0.94	-2.51	-0.94	-6.08	-0.94
	1.91	51.07	20.14	39.38	-16.32	70.85
	9.98	118.34	49.44	91.25	-29.47	164.17
4.10	22.93	117.01	55.43	90.25	-9.56	162.33

	12.30	50.50	25.12	38.95	-0.53	70.06
	-1.23	3.74	-0.95	1.41	-1.71	6.07
	-38.18	-2.75	-29.45	-15.72	-52.97	10.22
	-60.35	-7.16	-46.55	-26.26	-83.73	11.93
	-67.74	-9.50	-52.25	-30.20	-93.98	11.20
	-67.74	-9.50	-52.25	-30.20	-93.98	11.20
	-60.35	-9.77	-46.55	-27.56	-83.73	8.02
	-38.18	-7.96	-29.45	-18.33	-52.97	2.40
	-4.14	-0.93	-2.50	-0.93	-6.08	-0.93
	1.87	50.50	19.91	38.95	-16.17	70.06
	9.90	117.01	48.91	90.25	-29.12	162.33
4.15	22.85	115.72	54.91	89.28	-9.22	160.53
	12.26	49.94	24.90	38.53	-0.38	69.28
	-1.22	3.74	-0.94	1.41	-1.69	6.07
	-37.76	-2.72	-29.13	-15.55	-52.38	10.11
	-59.68	-7.12	-46.05	-25.99	-82.80	11.75
	-66.99	-9.45	-51.69	-29.91	-92.94	11.00
	-66.99	-9.45	-51.69	-29.91	-92.94	11.00
	-59.68	-9.73	-46.05	-27.30	-82.80	7.84
	-37.76	-7.94	-29.13	-18.16	-52.38	2.29
	-4.14	-0.92	-2.50	-0.92	-6.08	-0.92
	1.83	49.94	19.69	38.53	-16.02	69.28
	9.81	115.72	48.40	89.28	-28.77	160.53
4.20	22.77	114.45	54.41	88.33	-8.88	158.77
	12.23	49.39	24.68	38.12	-0.23	68.52
	-1.20	3.74	-0.93	1.42	-1.67	6.06
	-37.35	-2.70	-28.82	-15.39	-51.81	10.00
	-59.03	-7.08	-45.56	-25.73	-81.89	11.58
	-66.26	-9.41	-51.14	-29.61	-91.92	10.80
	-66.26	-9.41	-51.14	-29.61	-91.92	10.80
	-59.03	-9.68	-45.56	-27.04	-81.89	7.67
	-37.35	-7.91	-28.82	-18.00	-51.81	2.18
	-4.14	-0.91	-2.49	-0.91	-6.08	-0.91
	1.80	49.39	19.47	38.12	-15.87	68.52
	9.73	114.45	47.89	88.33	-28.43	158.77
4.25	22.69	113.22	53.92	87.40	-8.55	157.05
	12.19	48.86	24.47	37.72	-0.09	67.78
	-1.19	3.74	-0.92	1.42	-1.65	6.06
	-36.94	-2.67	-28.52	-15.23	-51.25	9.89
	-58.40	-7.04	-45.08	-25.48	-81.00	11.41
	-65.55	-9.36	-50.60	-29.33	-90.92	10.61
	-65.55	-9.36	-50.60	-29.33	-90.92	10.61
	-58.40	-9.64	-45.08	-26.78	-81.00	7.50
	-36.94	-7.88	-28.52	-17.84	-51.25	2.07
	-4.14	-0.90	-2.49	-0.90	-6.08	-0.90

	1.76	48.86	19.26	37.72	-15.73	67.78
	9.65	113.22	47.40	87.40	-28.10	157.05
4.30	22.61	112.01	53.44	86.49	-8.22	155.37
	12.16	48.34	24.27	37.33	0.05	67.06
	-1.18	3.74	-0.91	1.43	-1.64	6.06
	-36.55	-2.64	-28.22	-15.07	-50.70	9.78
	-57.77	-7.00	-44.61	-25.23	-80.14	11.24
	-64.85	-9.32	-50.08	-29.05	-89.95	10.42
	-64.85	-9.32	-50.08	-29.05	-89.95	10.42
	-57.77	-9.60	-44.61	-26.54	-80.14	7.33
	-36.55	-7.86	-28.22	-17.68	-50.70	1.96
	-4.14	-0.89	-2.48	-0.89	-6.07	-0.89
	1.73	48.34	19.05	37.33	-15.59	67.06
	9.58	112.01	46.93	86.49	-27.78	155.37
	4.35	22.53	110.83	52.98	85.61	-7.91
12.13		47.83	24.06	36.95	0.19	66.35
-1.17		3.74	-0.90	1.43	-1.62	6.05
-36.17		-2.62	-27.94	-14.92	-50.17	9.68
-57.17		-6.96	-44.16	-24.99	-79.29	11.08
-64.17		-9.27	-49.56	-28.78	-89.00	10.24
-64.17		-9.27	-49.56	-28.78	-89.00	10.24
-57.17		-9.56	-44.16	-26.30	-79.29	7.17
-36.17		-7.83	-27.94	-17.53	-50.17	1.86
-4.14		-0.88	-2.48	-0.88	-6.07	-0.88
1.70		47.83	18.85	36.95	-15.45	66.35
9.50		110.83	46.46	85.61	-27.46	153.73
4.40		22.46	109.68	52.52	84.75	-7.60
	12.09	47.34	23.87	36.57	0.32	65.66
	-1.15	3.74	-0.89	1.44	-1.60	6.05
	-35.79	-2.60	-27.65	-14.77	-49.64	9.58
	-56.57	-6.92	-43.71	-24.76	-78.47	10.92
	-63.50	-9.23	-49.06	-28.52	-88.08	10.06
	-63.50	-9.23	-49.06	-28.52	-88.08	10.06
	-56.57	-9.53	-43.71	-26.06	-78.47	7.01
	-35.79	-7.81	-27.65	-17.38	-49.64	1.76
	-4.14	-0.87	-2.47	-0.87	-6.07	-0.87
	1.67	47.34	18.65	36.57	-15.32	65.66
	9.43	109.68	46.00	84.75	-27.15	152.13
	4.45	22.39	108.55	52.07	83.90	-7.30
12.06		46.85	23.67	36.21	0.45	64.98
-1.14		3.74	-0.88	1.44	-1.58	6.05
-35.42		-2.57	-27.38	-14.63	-49.13	9.48
-55.99		-6.88	-43.27	-24.53	-77.66	10.76
-62.85		-9.19	-48.57	-28.26	-87.17	9.88
-62.85		-9.19	-48.57	-28.26	-87.17	9.88

	-55.99	-9.49	-43.27	-25.83	-77.66	6.85
	-35.42	-7.79	-27.38	-17.23	-49.13	1.66
	-4.13	-0.86	-2.47	-0.86	-6.07	-0.86
	1.64	46.85	18.46	36.21	-15.19	64.98
	9.35	108.55	45.55	83.90	-26.85	150.57
4.50	22.32	107.45	51.64	83.07	-7.00	149.04
	12.03	46.38	23.49	35.85	0.58	64.32
	-1.13	3.74	-0.87	1.45	-1.57	6.04
	-35.06	-2.55	-27.11	-14.48	-48.63	9.38
	-55.42	-6.85	-42.85	-24.30	-76.87	10.61
	-62.21	-9.15	-48.10	-28.01	-86.29	9.71
	-62.21	-9.15	-48.10	-28.01	-86.29	9.71
	-55.42	-9.45	-42.85	-25.60	-76.87	6.70
	-35.06	-7.76	-27.11	-17.09	-48.63	1.56
	-4.13	-0.85	-2.46	-0.85	-6.07	-0.85
	1.61	46.38	18.27	35.85	-15.06	64.32
	9.28	107.45	45.12	83.07	-26.55	149.04

En la Tabla 10 se muestran las combinaciones de esfuerzos para el cordón superior en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 10. Combinación de esfuerzos del cordón superior - 12 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)
0.50	-0.65	0.00	-0.33	0.00	-0.98	0.00
	142.82	716.55	346.84	564.11	-61.19	992.20
	260.21	1302.82	630.88	1025.65	-110.46	1804.00
	351.51	1758.81	851.80	1384.63	-148.78	2435.40
	416.73	2084.52	1009.60	1641.04	-176.15	2886.40
	455.85	2279.94	1104.28	1794.89	-192.58	3157.00
	457.16	2279.94	1104.94	1794.89	-190.62	3157.00
	418.03	2084.52	1010.25	1641.04	-174.20	2886.40
	352.81	1758.81	852.45	1384.63	-146.83	2435.40
	261.51	1302.82	631.53	1025.65	-108.51	1804.00
	144.13	716.55	347.49	564.11	-59.24	992.20
	0.00	0.65	0.00	0.33	0.00	0.98
0.55	-0.65	0.00	-0.33	0.00	-0.98	0.00
	125.58	647.22	311.08	508.63	-59.92	896.34
	228.87	1176.76	565.87	924.78	-108.14	1629.70
	309.20	1588.62	764.04	1248.46	-145.64	2200.10
	366.58	1882.81	905.59	1479.65	-172.43	2607.52
	401.00	2059.32	990.52	1618.37	-188.51	2851.98
	402.31	2059.32	991.17	1618.37	-186.55	2851.98

	367.88	1882.81	906.24	1479.65	-170.48	2607.52
	310.50	1588.62	764.69	1248.46	-143.69	2200.10
	230.17	1176.76	566.52	924.78	-106.18	1629.70
	126.89	647.22	311.73	508.63	-57.96	896.34
	0.00	0.65	0.00	0.33	0.00	0.98
0.60	-0.65	0.00	-0.33	0.00	-0.98	0.00
	105.24	583.46	275.31	456.42	-64.83	808.38
	191.87	1060.83	500.82	829.85	-117.07	1469.78
	259.26	1432.12	676.22	1120.30	-157.71	1984.20
	307.39	1697.32	801.51	1327.76	-186.73	2351.64
	336.27	1856.45	876.68	1452.24	-204.14	2572.11
	337.57	1856.45	877.33	1452.24	-202.19	2572.11
	308.69	1697.32	802.16	1327.76	-184.77	2351.64
	260.56	1432.12	676.87	1120.30	-155.75	1984.20
	193.18	1060.83	501.47	829.85	-115.12	1469.78
	106.54	583.46	275.96	456.42	-62.87	808.38
	0.00	0.65	0.00	0.33	0.00	0.98
0.65	-0.65	0.00	-0.33	0.00	-0.98	0.00
	92.09	533.58	249.10	416.31	-64.92	739.45
	167.98	970.14	453.18	756.93	-117.23	1344.45
	227.00	1309.69	611.91	1021.86	-157.92	1815.00
	269.15	1552.22	725.29	1211.09	-186.98	2151.12
	294.45	1697.74	793.32	1324.63	-204.42	2352.78
	295.75	1697.74	793.97	1324.63	-202.46	2352.78
	270.46	1552.22	725.94	1211.09	-185.03	2151.12
	228.30	1309.69	612.56	1021.86	-155.96	1815.00
	169.28	970.14	453.84	756.93	-115.27	1344.45
	93.40	533.58	249.76	416.31	-62.96	739.45
	0.00	0.65	0.00	0.33	0.00	0.98
0.70	-0.65	0.00	-0.33	0.00	-0.98	0.00
	78.87	488.86	224.69	379.97	-66.95	677.72
	143.93	888.84	408.79	690.86	-120.93	1232.22
	194.54	1199.94	551.98	932.67	-162.91	1663.49
	230.68	1422.15	654.26	1105.38	-192.90	1971.54
	252.37	1555.47	715.63	1209.01	-210.89	2156.38
	253.67	1555.47	716.28	1209.01	-208.93	2156.38
	231.98	1422.15	654.91	1105.38	-190.94	1971.54
	195.84	1199.94	552.63	932.67	-160.95	1663.49
	145.24	888.84	409.44	690.86	-118.97	1232.22
	80.17	488.86	225.34	379.97	-64.99	677.72
	0.00	0.65	0.00	0.33	0.00	0.98
0.75	-0.65	0.00	-0.33	0.00	-0.98	0.00
	69.34	452.05	205.46	350.42	-66.78	626.83
	126.61	821.90	373.83	637.12	-120.61	1139.69
	171.15	1109.57	504.79	860.11	-162.49	1538.59

	202.97	1315.04	598.33	1019.40	-192.39	1823.51
	222.05	1438.33	654.45	1114.96	-210.34	1994.47
	223.36	1438.33	655.10	1114.96	-208.39	1994.47
	204.27	1315.04	598.98	1019.40	-190.44	1823.51
	172.45	1109.57	505.44	860.11	-160.53	1538.59
	127.91	821.90	374.48	637.12	-118.66	1139.69
	70.65	452.05	206.11	350.42	-64.82	626.83
	0.00	0.65	0.00	0.33	0.00	0.98
0.80	-0.65	0.00	-0.33	0.00	-0.98	0.00
	60.58	419.41	188.21	324.13	-67.05	581.73
	110.68	762.56	342.47	589.33	-121.11	1057.70
	149.65	1029.46	462.45	795.59	-163.16	1427.89
	177.48	1220.10	548.15	942.93	-193.19	1692.32
	194.18	1334.48	599.57	1031.33	-211.21	1850.97
	195.49	1334.48	600.23	1031.33	-209.25	1850.97
	178.79	1220.10	548.81	942.93	-191.23	1692.32
	150.95	1029.46	463.11	795.59	-161.20	1427.89
	111.99	762.56	343.13	589.33	-119.15	1057.70
	61.89	419.41	188.87	324.13	-65.09	581.73
	0.00	0.65	0.00	0.33	0.00	0.98
0.85	-0.65	0.00	-0.33	0.00	-0.98	0.00
	55.06	392.81	175.20	303.14	-65.09	544.92
	100.63	714.20	318.81	551.16	-117.54	990.76
	136.08	964.18	430.51	744.07	-158.34	1337.52
	161.40	1142.73	510.29	881.86	-187.48	1585.21
	176.60	1249.86	558.16	964.53	-204.97	1733.83
	177.90	1249.86	558.81	964.53	-203.01	1733.83
	162.71	1142.73	510.94	881.86	-185.53	1585.21
	137.39	964.18	431.16	744.07	-156.38	1337.52
	101.94	714.20	319.46	551.16	-115.59	990.76
	56.36	392.81	175.85	303.14	-63.13	544.92
	0.00	0.65	0.00	0.33	0.00	0.98
0.90	-0.65	0.00	-0.33	0.00	-0.98	0.00
	50.06	369.09	163.55	284.40	-63.43	512.08
	91.55	671.07	297.63	517.09	-114.52	931.05
	123.82	905.95	401.91	698.07	-154.26	1256.92
	146.88	1073.72	476.40	827.34	-182.65	1489.68
	160.71	1174.38	521.09	904.91	-199.68	1629.34
	162.01	1174.38	521.74	904.91	-197.72	1629.34
	148.18	1073.72	477.05	827.34	-180.69	1489.68
	125.13	905.95	402.56	698.07	-152.31	1256.92
	92.86	671.07	298.28	517.09	-112.57	931.05
	51.36	369.09	164.20	284.40	-61.47	512.08
	0.00	0.65	0.00	0.33	0.00	0.98
0.95	-0.65	0.00	-0.33	0.00	-0.98	0.00

	46.22	348.49	153.75	268.26	-61.31	483.54
	84.57	633.62	279.81	487.74	-110.68	879.17
	114.39	855.39	377.86	658.45	-149.07	1186.88
	135.70	1013.79	447.89	780.39	-176.50	1406.67
	148.48	1108.83	489.91	853.55	-192.95	1538.55
	149.79	1108.83	490.57	853.55	-191.00	1538.55
	137.00	1013.79	448.55	780.39	-174.54	1406.67
	115.70	855.39	378.51	658.45	-147.12	1186.88
	85.87	633.62	280.46	487.74	-108.72	879.17
	47.52	348.49	154.40	268.26	-59.36	483.54
	0.00	0.65	0.00	0.33	0.00	0.98
1.00	-0.65	0.00	-0.33	0.00	-0.98	0.00
	39.44	326.63	141.61	250.41	-62.73	453.38
	72.24	593.87	257.73	455.28	-113.26	824.32
	97.75	801.72	348.06	614.63	-152.56	1112.83
	115.97	950.19	412.57	728.45	-180.63	1318.91
	126.90	1039.27	451.28	796.75	-197.48	1442.56
	128.21	1039.27	451.93	796.75	-195.52	1442.56
	117.27	950.19	413.22	728.45	-178.68	1318.91
	99.05	801.72	348.71	614.63	-150.61	1112.83
	73.54	593.87	258.39	455.28	-111.31	824.32
	40.74	326.63	142.26	250.41	-60.78	453.38
	0.00	0.65	0.00	0.33	0.00	0.98
1.05	-0.65	0.00	-0.33	0.00	-0.98	0.00
	37.79	311.34	135.11	238.75	-59.53	432.14
	69.25	566.07	245.93	434.08	-107.44	785.71
	93.71	764.19	332.11	586.01	-144.70	1060.71
	111.18	905.71	393.68	694.53	-171.31	1257.14
	121.67	990.62	430.61	759.65	-187.28	1375.00
	122.97	990.62	431.27	759.65	-185.32	1375.00
	112.49	905.71	394.33	694.53	-169.35	1257.14
	95.01	764.19	332.77	586.01	-142.74	1060.71
	70.55	566.07	246.58	434.08	-105.48	785.71
	39.10	311.34	135.76	238.75	-57.57	432.14
	0.00	0.65	0.00	0.33	0.00	0.98
1.10	-0.65	0.00	-0.33	0.00	-0.98	0.00
	36.30	297.44	129.21	228.15	-56.61	412.84
	66.53	540.80	235.20	414.82	-102.13	750.63
	90.05	730.08	317.63	560.00	-137.54	1013.34
	106.84	865.29	376.51	663.71	-162.82	1201.00
	116.92	946.41	411.84	725.93	-178.00	1313.60
	118.22	946.41	412.49	725.93	-176.04	1313.60
	108.15	865.29	377.16	663.71	-160.87	1201.00
	91.35	730.08	318.28	560.00	-135.58	1013.34
	67.84	540.80	235.85	414.82	-100.18	750.63

	37.60	297.44	129.86	228.15	-54.66	412.84
	0.00	0.65	0.00	0.33	0.00	0.98
1.15	-0.65	0.00	-0.33	0.00	-0.98	0.00
	34.94	284.76	123.83	218.48	-53.95	395.23
	64.06	517.74	225.41	397.23	-97.28	718.60
	86.71	698.95	304.41	536.26	-130.99	970.11
	102.89	828.38	360.85	635.57	-155.07	1149.76
	112.60	906.05	394.71	695.16	-169.51	1257.55
	113.90	906.05	395.36	695.16	-167.56	1257.55
	104.19	828.38	361.50	635.57	-153.11	1149.76
	88.02	698.95	305.07	536.26	-129.04	970.11
	65.37	517.74	226.06	397.23	-95.33	718.60
	36.24	284.76	124.48	218.48	-51.99	395.23
	0.00	0.65	0.00	0.33	0.00	0.98
	1.20	-0.65	0.00	-0.33	0.00	-0.98
31.96		271.40	117.16	207.88	-53.23	376.74
58.65		493.45	213.29	377.97	-95.99	684.99
79.41		666.16	288.05	510.25	-129.24	924.74
94.23		789.52	341.45	604.74	-152.99	1095.98
103.13		863.54	373.50	661.44	-167.24	1198.73
104.43		863.54	374.15	661.44	-165.29	1198.73
95.53		789.52	342.11	604.74	-151.04	1095.98
80.71		666.16	288.70	510.25	-127.28	924.74
59.95		493.45	213.94	377.97	-94.03	684.99
33.27		271.40	117.81	207.88	-51.28	376.74
0.00		0.65	0.00	0.33	0.00	0.98
1.25		-0.65	0.00	-0.33	0.00	-0.98
	30.89	260.78	112.69	199.80	-50.91	361.99
	56.70	474.14	205.17	363.27	-91.76	658.16
	76.78	640.09	277.09	490.41	-123.54	888.52
	91.11	758.62	328.46	581.23	-146.23	1053.06
	99.72	829.74	359.28	635.72	-159.85	1151.78
	101.02	829.74	359.94	635.72	-157.90	1151.78
	92.42	758.62	329.11	581.23	-144.28	1053.06
	78.08	640.09	277.74	490.41	-121.58	888.52
	58.01	474.14	205.82	363.27	-89.81	658.16
	32.20	260.78	113.35	199.80	-48.95	361.99
	0.00	0.65	0.00	0.33	0.00	0.98
	1.30	-0.65	0.00	-0.33	0.00	-0.98
29.11		250.18	107.78	191.55	-49.56	347.30
53.47		454.87	196.23	348.27	-89.30	631.46
72.41		614.08	265.03	470.16	-120.21	852.47
85.94		727.79	314.17	557.23	-142.30	1010.33
94.05		796.02	343.65	609.47	-155.54	1105.05
95.36		796.02	344.30	609.47	-153.59	1105.05

	87.24	727.79	314.82	557.23	-140.34	1010.33
	73.71	614.08	265.68	470.16	-118.26	852.47
	54.77	454.87	196.88	348.27	-87.35	631.46
	30.42	250.18	108.43	191.55	-47.60	347.30
	0.00	0.65	0.00	0.33	0.00	0.98
1.35	-0.65	0.00	-0.33	0.00	-0.98	0.00
	28.22	241.13	103.99	184.67	-47.54	334.73
	51.85	438.41	189.34	335.76	-85.64	608.60
	70.23	591.86	255.72	453.27	-115.27	821.60
	83.35	701.46	303.14	537.21	-136.44	973.75
	91.23	767.22	331.59	587.58	-149.14	1065.04
	92.53	767.22	332.24	587.58	-147.18	1065.04
	84.66	701.46	303.79	537.21	-134.48	973.75
	71.53	591.86	256.38	453.27	-113.32	821.60
	53.15	438.41	189.99	335.76	-83.69	608.60
	29.53	241.13	104.64	184.67	-45.59	334.73
	0.00	0.65	0.00	0.33	0.00	0.98
1.40	-0.65	0.00	-0.33	0.00	-0.98	0.00
	25.98	231.30	99.05	176.86	-47.09	321.14
	47.77	420.55	180.36	321.56	-84.82	583.89
	64.72	567.75	243.61	434.11	-114.16	788.25
	76.83	672.89	288.78	514.50	-135.12	934.22
	84.09	735.97	315.88	562.74	-147.70	1021.80
	85.39	735.97	316.53	562.74	-145.75	1021.80
	78.13	672.89	289.43	514.50	-133.17	934.22
	66.02	567.75	244.26	434.11	-112.21	788.25
	49.08	420.55	181.02	321.56	-82.86	583.89
	27.29	231.30	99.71	176.86	-45.14	321.14
	0.00	0.65	0.00	0.33	0.00	0.98
1.45	-0.65	0.00	-0.33	0.00	-0.98	0.00
	24.54	222.80	95.10	170.24	-46.03	309.35
	45.15	405.09	173.18	309.52	-82.89	562.46
	61.17	546.88	233.90	417.85	-111.55	759.32
	72.62	648.15	277.28	495.23	-132.03	899.94
	79.49	708.92	303.30	541.66	-144.32	984.31
	80.80	708.92	303.96	541.66	-142.36	984.31
	73.93	648.15	277.93	495.23	-130.08	899.94
	62.48	546.88	234.55	417.85	-109.60	759.32
	46.45	405.09	173.83	309.52	-80.93	562.46
	25.84	222.80	95.75	170.24	-44.07	309.35
	0.00	0.65	0.00	0.33	0.00	0.98
1.50	-0.65	0.00	-0.33	0.00	-0.98	0.00
	23.89	215.57	92.11	164.75	-44.33	299.30
	43.97	391.94	167.74	299.55	-79.81	544.18
	59.59	529.12	226.57	404.39	-107.40	734.65

	70.74	627.11	268.58	479.28	-127.10	870.69
	77.43	685.90	293.79	524.21	-138.93	952.32
	78.74	685.90	294.45	524.21	-136.97	952.32
	72.04	627.11	269.24	479.28	-125.15	870.69
	60.89	529.12	227.22	404.39	-105.44	734.65
	45.27	391.94	168.39	299.55	-77.85	544.18
	25.19	215.57	92.76	164.75	-42.38	299.30
	0.00	0.65	0.00	0.33	0.00	0.98
1.55	-0.65	0.00	-0.33	0.00	-0.98	0.00
	23.29	208.80	89.32	159.63	-42.75	289.90
	42.87	379.64	162.66	290.23	-76.92	527.09
	58.10	512.51	219.71	391.81	-103.50	711.57
	68.98	607.42	260.46	464.37	-122.49	843.35
	75.51	664.37	284.90	507.90	-133.88	922.41
	76.82	664.37	285.56	507.90	-131.92	922.41
	70.29	607.42	261.11	464.37	-120.53	843.35
	59.41	512.51	220.36	391.81	-101.55	711.57
	44.17	379.64	163.31	290.23	-74.97	527.09
	24.59	208.80	89.97	159.63	-40.79	289.90
	0.00	0.65	0.00	0.33	0.00	0.98
1.60	-0.65	0.00	-0.33	0.00	-0.98	0.00
	22.62	202.36	86.60	154.72	-41.36	280.95
	41.66	367.92	157.72	281.31	-74.40	510.82
	56.46	496.69	213.03	379.76	-100.10	689.60
	67.04	588.67	252.54	450.09	-118.46	817.31
	73.39	643.86	276.25	492.29	-129.47	893.93
	74.69	643.86	276.90	492.29	-127.52	893.93
	68.35	588.67	253.19	450.09	-116.50	817.31
	57.77	496.69	213.68	379.76	-98.15	689.60
	42.96	367.92	158.37	281.31	-72.45	510.82
	23.92	202.36	87.25	154.72	-39.41	280.95
	0.00	0.65	0.00	0.33	0.00	0.98
1.65	-0.65	0.00	-0.33	0.00	-0.98	0.00
	22.09	196.40	84.14	150.21	-39.96	272.68
	40.70	357.10	153.25	273.11	-71.85	495.78
	55.17	482.08	207.01	368.70	-96.66	669.30
	65.51	571.36	245.40	436.97	-114.37	793.24
	71.72	624.92	268.44	477.94	-125.01	867.61
	73.02	624.92	269.09	477.94	-123.05	867.61
	66.82	571.36	246.05	436.97	-112.42	793.24
	56.48	482.08	207.66	368.70	-94.70	669.30
	42.00	357.10	153.90	273.11	-69.90	495.78
	23.40	196.40	84.79	150.21	-38.00	272.68
	0.00	0.65	0.00	0.33	0.00	0.98
1.70	-0.65	0.00	-0.33	0.00	-0.98	0.00

	21.60	190.80	81.83	145.97	-38.64	264.89
	39.80	346.92	149.06	265.39	-69.45	481.63
	53.96	468.34	201.34	358.28	-93.41	650.20
	64.08	555.06	238.68	424.63	-110.53	770.60
	70.15	607.10	261.09	464.44	-120.80	842.85
	71.45	607.10	261.74	464.44	-118.84	842.85
	65.38	555.06	239.34	424.63	-108.57	770.60
	55.27	468.34	201.99	358.28	-91.46	650.20
	41.11	346.92	149.71	265.39	-67.49	481.63
	22.90	190.80	82.49	145.97	-36.68	264.89
	0.00	0.65	0.00	0.33	0.00	0.98
1.75	-0.65	0.00	-0.33	0.00	-0.98	0.00
	20.04	184.42	78.56	140.87	-38.49	256.07
	36.96	335.32	143.10	256.13	-69.18	465.59
	50.13	452.68	193.30	345.77	-93.05	628.54
	59.53	536.51	229.16	409.80	-110.10	744.94
	65.17	586.80	250.67	448.22	-120.33	814.78
	66.47	586.80	251.32	448.22	-118.37	814.78
	60.83	536.51	229.81	409.80	-108.14	744.94
	51.43	452.68	193.95	345.77	-91.09	628.54
	38.26	335.32	143.75	256.13	-67.22	465.59
	21.34	184.42	79.21	140.87	-36.53	256.07
	0.00	0.65	0.00	0.33	0.00	0.98
1.80	-0.65	0.00	-0.33	0.00	-0.98	0.00
	19.63	179.47	76.54	137.12	-37.28	249.19
	36.22	326.31	139.42	249.32	-66.98	453.07
	49.13	440.51	188.33	336.58	-90.08	611.64
	58.35	522.09	223.27	398.91	-106.58	724.91
	63.88	571.04	244.23	436.30	-116.48	792.87
	65.18	571.04	244.88	436.30	-114.52	792.87
	59.65	522.09	223.92	398.91	-104.62	724.91
	50.43	440.51	188.98	336.58	-88.12	611.64
	37.53	326.31	140.07	249.32	-65.02	453.07
	20.93	179.47	77.19	137.12	-35.32	249.19
	0.00	0.65	0.00	0.33	0.00	0.98
1.85	-0.65	0.00	-0.33	0.00	-0.98	0.00
	19.25	174.78	74.62	133.58	-36.13	242.67
	35.52	317.79	135.94	242.88	-64.89	441.23
	48.19	429.01	183.64	327.88	-87.27	595.66
	57.23	508.46	217.71	388.60	-103.24	705.96
	62.66	556.13	238.15	425.03	-112.83	772.15
	63.96	556.13	238.80	425.03	-110.88	772.15
	58.53	508.46	218.36	388.60	-101.29	705.96
	49.49	429.01	184.29	327.88	-85.31	595.66
	36.83	317.79	136.60	242.88	-62.94	441.23

	20.55	174.78	75.27	133.58	-34.18	242.67
	0.00	0.65	0.00	0.33	0.00	0.98
1.90	-0.65	0.00	-0.33	0.00	-0.98	0.00
	18.88	170.34	72.81	130.23	-35.05	236.51
	34.87	309.72	132.65	236.78	-62.92	430.01
	47.30	418.12	179.19	319.65	-84.60	580.52
	56.18	495.55	212.44	378.85	-100.08	688.02
	61.50	542.01	232.38	414.36	-109.38	752.52
	62.81	542.01	233.04	414.36	-107.42	752.52
	57.48	495.55	213.09	378.85	-98.13	688.02
	48.60	418.12	179.84	319.65	-82.64	580.52
	36.17	309.72	133.30	236.78	-60.96	430.01
	20.19	170.34	73.46	130.23	-33.09	236.51
	0.00	0.65	0.00	0.33	0.00	0.98
	1.95	-0.65	0.00	-0.33	0.00	-0.98
18.54		166.14	71.09	127.05	-34.01	230.66
34.24		302.06	129.53	230.99	-61.04	419.37
46.46		407.79	174.98	311.84	-82.07	566.15
55.18		483.30	207.44	369.59	-97.08	671.00
60.41		528.61	226.92	404.24	-106.09	733.90
61.72		528.61	227.57	404.24	-104.14	733.90
56.48		483.30	208.09	369.59	-95.13	671.00
47.76		407.79	175.63	311.84	-80.11	566.15
35.55		302.06	130.18	230.99	-59.09	419.37
19.84		166.14	71.75	127.05	-32.06	230.66
0.00		0.65	0.00	0.33	0.00	0.98
2.00		-0.65	0.00	-0.33	0.00	-0.98
	18.22	162.14	69.46	124.03	-33.03	225.10
	33.65	294.79	126.56	225.50	-59.26	409.27
	45.66	397.97	170.98	304.43	-79.66	552.52
	54.24	471.67	202.70	360.80	-94.23	654.83
	59.38	515.89	221.73	394.63	-102.97	716.22
	60.68	515.89	222.38	394.63	-101.02	716.22
	55.54	471.67	203.35	360.80	-92.27	654.83
	46.96	397.97	171.63	304.43	-77.70	552.52
	34.96	294.79	127.22	225.50	-57.30	409.27
	19.52	162.14	70.12	124.03	-31.08	225.10
	0.00	0.65	0.00	0.33	0.00	0.98
	2.05	-0.65	0.00	-0.33	0.00	-0.98
17.22		157.65	67.23	120.47	-32.79	218.88
31.84		286.63	122.49	219.03	-58.81	397.97
43.21		386.95	165.48	295.69	-79.06	537.26
51.34		458.61	196.19	350.44	-93.51	636.76
56.21		501.60	214.61	383.30	-102.19	696.45
57.51		501.60	215.26	383.30	-100.23	696.45

	52.64	458.61	196.84	350.44	-91.56	636.76
	44.52	386.95	166.13	295.69	-77.10	537.26
	33.14	286.63	123.15	219.03	-56.86	397.97
	18.52	157.65	67.88	120.47	-30.83	218.88
	0.00	0.65	0.00	0.33	0.00	0.98
2.10	-0.65	0.00	-0.33	0.00	-0.98	0.00
	16.94	154.04	65.76	117.74	-31.89	213.87
	31.33	280.07	119.83	214.08	-57.17	388.85
	42.52	378.09	161.89	289.00	-76.84	524.95
	50.52	448.11	191.93	342.52	-90.89	622.16
	55.32	490.12	209.95	374.63	-99.32	680.49
	56.62	490.12	210.60	374.63	-97.36	680.49
	51.82	448.11	192.58	342.52	-88.94	622.16
	43.83	378.09	162.54	289.00	-74.89	524.95
	32.63	280.07	120.49	214.08	-55.22	388.85
	18.24	154.04	66.41	117.74	-29.93	213.87
	0.00	0.65	0.00	0.33	0.00	0.98
2.15	-0.65	0.00	-0.33	0.00	-0.98	0.00
	16.67	150.60	64.37	115.14	-31.02	209.09
	30.84	273.81	117.30	209.35	-55.61	380.16
	41.87	369.65	158.46	282.63	-74.73	513.21
	49.74	438.10	187.87	334.97	-88.39	608.25
	54.47	479.17	205.51	366.37	-96.58	665.27
	55.77	479.17	206.17	366.37	-94.63	665.27
	51.05	438.10	188.52	334.97	-86.43	608.25
	43.17	369.65	159.12	282.63	-72.77	513.21
	32.15	273.81	117.95	209.35	-53.65	380.16
	17.97	150.60	65.02	115.14	-29.07	209.09
	0.00	0.65	0.00	0.33	0.00	0.98
2.20	-0.65	0.00	-0.33	0.00	-0.98	0.00
	15.66	146.56	62.28	111.91	-30.96	203.51
	29.01	266.47	113.51	203.48	-55.48	370.01
	39.39	359.74	153.35	274.70	-74.56	499.51
	46.81	426.36	181.81	325.57	-88.19	592.02
	51.26	466.33	198.88	356.09	-96.36	647.52
	52.56	466.33	199.53	356.09	-94.41	647.52
	48.11	426.36	182.46	325.57	-86.23	592.02
	40.70	359.74	154.00	274.70	-72.60	499.51
	30.32	266.47	114.16	203.48	-53.53	370.01
	16.97	146.56	62.93	111.91	-29.00	203.51
	0.00	0.65	0.00	0.33	0.00	0.98
2.25	-0.65	0.00	-0.33	0.00	-0.98	0.00
	15.44	143.44	61.03	109.56	-30.15	199.17
	28.60	260.80	111.23	199.21	-54.02	362.12
	38.84	352.08	150.27	268.93	-72.59	488.87

	46.15	417.28	178.16	318.73	-85.85	579.40
	50.54	456.40	194.89	348.61	-93.81	633.72
	51.85	456.40	195.54	348.61	-91.85	633.72
	47.46	417.28	178.81	318.73	-83.89	579.40
	40.14	352.08	150.92	268.93	-70.63	488.87
	29.91	260.80	111.88	199.21	-52.07	362.12
	16.74	143.44	61.68	109.56	-28.20	199.17
	0.00	0.65	0.00	0.33	0.00	0.98
2.30	-0.65	0.00	-0.33	0.00	-0.98	0.00
	15.22	140.46	59.83	107.32	-29.38	195.02
	28.21	255.38	109.05	195.12	-52.62	354.58
	38.31	344.76	147.33	263.41	-70.70	478.69
	45.53	408.60	174.67	312.20	-83.61	567.33
	49.86	446.91	191.08	341.46	-91.36	620.52
	51.16	446.91	191.73	341.46	-89.40	620.52
	46.83	408.60	175.32	312.20	-81.66	567.33
	39.62	344.76	147.98	263.41	-68.75	478.69
	29.51	255.38	109.70	195.12	-50.67	354.58
	16.53	140.46	60.48	107.32	-27.43	195.02
	0.00	0.65	0.00	0.33	0.00	0.98
2.35	-0.65	0.00	-0.33	0.00	-0.98	0.00
	15.02	137.60	58.68	105.17	-28.65	191.05
	27.84	250.18	106.96	191.21	-51.28	347.36
	37.81	337.75	144.51	258.14	-68.89	468.94
	44.93	400.29	171.33	305.94	-81.47	555.78
	49.20	437.82	187.43	334.62	-89.02	607.88
	50.51	437.82	188.08	334.62	-87.06	607.88
	46.23	400.29	171.98	305.94	-79.51	555.78
	39.11	337.75	145.16	258.14	-66.94	468.94
	29.14	250.18	107.61	191.21	-49.33	347.36
	16.32	137.60	59.33	105.17	-26.69	191.05
	0.00	0.65	0.00	0.33	0.00	0.98
2.40	-0.65	0.00	-0.33	0.00	-0.98	0.00
	14.34	134.38	57.10	102.62	-28.42	186.59
	26.60	244.33	104.08	186.59	-50.88	339.26
	36.14	329.84	140.63	251.89	-68.34	458.00
	42.96	390.93	166.73	298.54	-80.82	542.82
	47.04	427.58	182.39	326.53	-88.30	593.70
	48.35	427.58	183.04	326.53	-86.35	593.70
	44.26	390.93	167.38	298.54	-78.86	542.82
	37.44	329.84	141.28	251.89	-66.39	458.00
	27.91	244.33	104.74	186.59	-48.92	339.26
	15.64	134.38	57.75	102.62	-26.47	186.59
	0.00	0.65	0.00	0.33	0.00	0.98
2.45	-0.65	0.00	-0.33	0.00	-0.98	0.00

	14.16	131.76	56.05	100.65	-27.74	182.95
	26.27	239.57	102.18	183.00	-49.64	332.64
	35.69	323.42	138.05	247.05	-66.67	449.06
	42.42	383.31	163.68	292.80	-78.83	532.22
	46.46	419.24	179.05	320.25	-86.13	582.12
	47.77	419.24	179.71	320.25	-84.17	582.12
	43.73	383.31	164.33	292.80	-76.88	532.22
	37.00	323.42	138.70	247.05	-64.71	449.06
	27.57	239.57	102.83	183.00	-47.68	332.64
	15.46	131.76	56.70	100.65	-25.78	182.95
	0.00	0.65	0.00	0.33	0.00	0.98
2.50	-0.65	0.00	-0.33	0.00	-0.98	0.00
	13.98	129.25	55.04	98.76	-27.08	179.46
	25.95	235.00	100.35	179.56	-48.44	326.28
	35.26	317.25	135.58	242.41	-65.05	440.48
	41.92	375.99	160.75	287.30	-76.92	522.05
	45.91	411.24	175.85	314.23	-84.04	571.00
	47.21	411.24	176.50	314.23	-82.09	571.00
	43.22	375.99	161.40	287.30	-74.97	522.05
	36.57	317.25	136.23	242.41	-63.10	440.48
	27.26	235.00	101.00	179.56	-46.49	326.28
	15.28	129.25	55.70	98.76	-25.13	179.46
	0.00	0.65	0.00	0.33	0.00	0.98
2.55	-0.65	0.00	-0.33	0.00	-0.98	0.00
	13.81	126.83	54.08	96.94	-26.45	176.10
	25.65	230.61	98.59	176.26	-47.29	320.18
	34.85	311.32	133.21	237.95	-63.51	432.24
	41.43	368.97	157.94	282.01	-75.08	512.29
	45.37	403.56	172.78	308.45	-82.03	560.31
	46.68	403.56	173.43	308.45	-80.08	560.31
	42.73	368.97	158.59	282.01	-73.13	512.29
	36.16	311.32	133.86	237.95	-61.55	432.24
	26.95	230.61	99.24	176.26	-45.34	320.18
	15.12	126.83	54.73	96.94	-24.50	176.10
	0.00	0.65	0.00	0.33	0.00	0.98
2.60	-0.65	0.00	-0.33	0.00	-0.98	0.00
	13.65	124.51	53.15	95.20	-25.84	172.87
	25.36	226.39	96.90	173.08	-46.19	314.31
	34.46	305.62	130.93	233.66	-62.01	424.32
	40.96	362.22	155.24	276.93	-73.32	502.90
	44.86	396.17	169.82	302.90	-80.10	550.04
	46.17	396.17	170.47	302.90	-78.14	550.04
	42.26	362.22	155.89	276.93	-71.36	502.90
	35.76	305.62	131.58	233.66	-60.06	424.32
	26.66	226.39	97.55	173.08	-44.23	314.31

	14.96	124.51	53.80	95.20	-23.89	172.87
	0.00	0.65	0.00	0.33	0.00	0.98
2.65	-0.65	0.00	-0.33	0.00	-0.98	0.00
	13.50	122.28	52.26	93.52	-25.26	169.77
	25.08	222.32	95.28	170.03	-45.13	308.66
	34.08	300.14	128.74	229.54	-60.58	416.70
	40.51	355.72	152.64	272.04	-71.62	493.86
	44.37	389.07	166.98	297.55	-78.24	540.16
	45.68	389.07	167.63	297.55	-76.28	540.16
	41.82	355.72	153.29	272.04	-69.66	493.86
	35.38	300.14	129.39	229.54	-58.62	416.70
	26.38	222.32	95.93	170.03	-43.17	308.66
	14.80	122.28	52.91	93.52	-23.30	169.77
	0.00	0.65	0.00	0.33	0.00	0.98
2.70	-0.65	0.00	-0.33	0.00	-0.98	0.00
	13.35	120.13	51.40	91.90	-24.70	166.78
	24.81	218.41	93.72	167.09	-44.10	303.23
	33.72	294.86	126.63	225.57	-59.19	409.36
	40.08	349.46	150.14	267.34	-69.98	485.16
	43.90	382.23	164.25	292.40	-76.44	530.65
	45.20	382.23	164.90	292.40	-74.49	530.65
	41.39	349.46	150.79	267.34	-68.02	485.16
	35.02	294.86	127.28	225.57	-57.24	409.36
	26.11	218.41	94.37	167.09	-42.15	303.23
	14.65	120.13	52.05	91.90	-22.74	166.78
	0.00	0.65	0.00	0.33	0.00	0.98
2.75	-0.65	0.00	-0.33	0.00	-0.98	0.00
	13.21	118.06	50.57	90.34	-24.15	163.89
	24.55	214.65	92.21	164.25	-43.11	297.99
	33.37	289.77	124.60	221.74	-57.86	402.29
	39.67	343.44	147.73	262.80	-68.39	476.78
	43.45	375.63	161.61	287.44	-74.71	521.48
	44.75	375.63	162.26	287.44	-72.76	521.48
	40.97	343.44	148.38	262.80	-66.44	476.78
	34.67	289.77	125.25	221.74	-55.91	402.29
	25.85	214.65	92.86	164.25	-41.16	297.99
	14.51	118.06	51.22	90.34	-22.20	163.89
	0.00	0.65	0.00	0.33	0.00	0.98
2.80	-0.65	0.00	-0.33	0.00	-0.98	0.00
	13.07	116.06	49.77	88.84	-23.63	161.12
	24.30	211.02	90.76	161.52	-42.16	292.94
	33.03	284.87	122.64	218.05	-56.57	395.47
	39.27	337.63	145.41	258.43	-66.87	468.71
	43.01	369.28	159.07	282.66	-73.05	512.65
	44.32	369.28	159.72	282.66	-71.09	512.65

	40.57	337.63	146.06	258.43	-64.91	468.71
	34.34	284.87	123.29	218.05	-54.62	395.47
	25.60	211.02	91.41	161.52	-40.20	292.94
	14.37	116.06	50.42	88.84	-21.67	161.12
	0.00	0.65	0.00	0.33	0.00	0.98
2.85	-0.65	0.00	-0.33	0.00	-0.98	0.00
	12.94	114.13	49.00	87.39	-23.12	158.44
	24.06	207.51	89.36	158.89	-41.24	288.07
	32.71	280.14	120.75	214.50	-55.33	388.89
	38.89	332.02	143.17	254.22	-65.40	460.91
	42.59	363.15	156.62	278.05	-71.43	504.12
	43.90	363.15	157.27	278.05	-69.48	504.12
	40.19	332.02	143.82	254.22	-63.44	460.91
	34.01	280.14	121.40	214.50	-53.37	388.89
	25.36	207.51	90.01	158.89	-39.28	288.07
	14.24	114.13	49.65	87.39	-21.17	158.44
	0.00	0.65	0.00	0.33	0.00	0.98
2.90	-0.65	0.00	-0.33	0.00	-0.98	0.00
	12.81	112.27	48.26	85.99	-22.63	155.85
	23.83	204.13	88.01	156.34	-40.35	283.37
	32.40	275.58	118.92	211.06	-54.13	382.54
	38.52	326.61	141.01	250.15	-63.97	453.39
	42.19	357.23	154.26	273.60	-69.88	495.89
	43.49	357.23	154.91	273.60	-67.92	495.89
	39.82	326.61	141.66	250.15	-62.02	453.39
	33.70	275.58	119.58	211.06	-52.17	382.54
	25.13	204.13	88.66	156.34	-38.39	283.37
	14.12	112.27	48.91	85.99	-20.68	155.85
	0.00	0.65	0.00	0.33	0.00	0.98
2.95	-0.65	0.00	-0.33	0.00	-0.98	0.00
	12.69	110.47	47.54	84.64	-22.16	153.35
	23.61	200.86	86.70	153.88	-39.49	278.82
	32.10	271.16	117.16	207.74	-52.97	376.41
	38.16	321.38	138.92	246.22	-62.60	446.12
	41.80	351.51	151.98	269.30	-68.37	487.94
	43.10	351.51	152.63	269.30	-66.42	487.94
	39.47	321.38	139.57	246.22	-60.64	446.12
	33.40	271.16	117.82	207.74	-51.01	376.41
	24.91	200.86	87.36	153.88	-37.53	278.82
	13.99	110.47	48.19	84.64	-20.20	153.35
	0.00	0.65	0.00	0.33	0.00	0.98
3.00	-0.65	0.00	-0.33	0.00	-0.98	0.00
	12.57	108.74	46.85	83.33	-21.70	150.94
	23.39	197.71	85.44	151.51	-38.66	274.43
	31.81	266.90	115.46	204.54	-51.84	370.49

	37.82	316.33	136.90	242.42	-61.26	439.09
	41.43	345.98	149.77	265.14	-66.92	480.26
	42.73	345.98	150.42	265.14	-64.96	480.26
	39.12	316.33	137.56	242.42	-59.31	439.09
	33.11	266.90	116.11	204.54	-49.89	370.49
	24.70	197.71	86.09	151.51	-36.70	274.43
	13.88	108.74	47.50	83.33	-19.75	150.94
	0.00	0.65	0.00	0.33	0.00	0.98
3.05	-0.65	0.00	-0.33	0.00	-0.98	0.00
	12.46	107.06	46.18	82.07	-21.26	148.60
	23.19	194.65	84.22	149.21	-37.85	270.19
	31.53	262.78	113.82	201.44	-50.76	364.75
	37.49	311.44	134.95	238.74	-59.98	432.30
	41.06	340.64	147.64	261.12	-65.51	472.83
	42.37	340.64	148.29	261.12	-63.55	472.83
	38.79	311.44	135.61	238.74	-58.02	432.30
	32.83	262.78	114.47	201.44	-48.80	364.75
	24.49	194.65	84.88	149.21	-35.90	270.19
	13.76	107.06	46.83	82.07	-19.30	148.60
	0.00	0.65	0.00	0.33	0.00	0.98
3.10	-0.65	0.00	-0.33	0.00	-0.98	0.00
	12.35	105.43	45.53	80.85	-20.83	146.34
	22.99	191.70	83.05	146.99	-37.07	266.08
	31.26	258.79	112.23	198.44	-49.71	359.21
	37.17	306.72	133.07	235.19	-58.73	425.73
	40.72	335.47	145.57	257.24	-64.14	465.64
	42.02	335.47	146.23	257.24	-62.19	465.64
	38.47	306.72	133.72	235.19	-56.77	425.73
	32.56	258.79	112.88	198.44	-47.75	359.21
	24.29	191.70	83.70	146.99	-35.12	266.08
	13.65	105.43	46.18	80.85	-18.87	146.34
	0.00	0.65	0.00	0.33	0.00	0.98
3.15	-0.65	0.00	-0.33	0.00	-0.98	0.00
	12.24	103.86	44.90	79.66	-20.41	144.16
	22.79	188.84	81.91	144.84	-36.32	262.10
	31.00	254.93	110.69	195.54	-48.69	353.84
	36.86	302.14	131.24	231.75	-57.52	419.36
	40.38	330.46	143.58	253.47	-62.82	458.68
	41.68	330.46	144.23	253.47	-60.87	458.68
	38.17	302.14	131.90	231.75	-55.56	419.36
	32.30	254.93	111.34	195.54	-46.73	353.84
	24.10	188.84	82.56	144.84	-34.36	262.10
	13.55	103.86	45.55	79.66	-18.46	144.16
	0.00	0.65	0.00	0.33	0.00	0.98
3.20	-0.65	0.00	-0.33	0.00	-0.98	0.00

	12.14	102.34	44.29	78.52	-20.01	142.04
	22.61	186.07	80.80	142.76	-35.58	258.25
	30.75	251.19	109.19	192.72	-47.70	348.64
	36.56	297.71	129.48	228.41	-56.35	413.20
	40.05	325.62	141.64	249.83	-61.54	451.94
	41.36	325.62	142.30	249.83	-59.58	451.94
	37.87	297.71	130.13	228.41	-54.39	413.20
	32.05	251.19	109.85	192.72	-45.74	348.64
	23.91	186.07	81.45	142.76	-33.63	258.25
	13.44	102.34	44.95	78.52	-18.06	142.04
	0.00	0.65	0.00	0.33	0.00	0.98
3.25	-0.65	0.00	-0.33	0.00	-0.98	0.00
	12.04	100.86	43.70	77.41	-19.62	139.98
	22.43	183.38	79.73	140.74	-34.87	254.52
	30.51	247.56	107.75	190.00	-46.74	343.60
	36.28	293.41	127.76	225.18	-55.21	407.23
	39.74	320.92	139.77	246.29	-60.30	445.41
	41.04	320.92	140.42	246.29	-58.34	445.41
	37.58	293.41	128.42	225.18	-53.26	407.23
	31.81	247.56	108.40	190.00	-44.78	343.60
	23.73	183.38	80.38	140.74	-32.92	254.52
	13.35	100.86	44.36	77.41	-17.67	139.98
	0.00	0.65	0.00	0.33	0.00	0.98
3.30	-0.65	0.00	-0.33	0.00	-0.98	0.00
	11.95	99.43	43.13	76.33	-19.24	137.99
	22.25	180.78	78.69	138.78	-34.18	250.90
	30.27	244.05	106.35	187.36	-45.81	338.71
	36.00	289.25	126.10	222.05	-54.11	401.44
	39.43	316.36	137.96	242.87	-59.09	439.07
	40.74	316.36	138.61	242.87	-57.14	439.07
	37.30	289.25	126.76	222.05	-52.15	401.44
	31.57	244.05	107.00	187.36	-43.85	338.71
	23.56	180.78	79.34	138.78	-32.23	250.90
	13.25	99.43	43.79	76.33	-17.29	137.99
	0.00	0.65	0.00	0.33	0.00	0.98
3.35	-0.65	0.00	-0.33	0.00	-0.98	0.00
	11.85	98.04	42.58	75.29	-18.87	136.06
	22.09	178.25	77.69	136.88	-33.52	247.39
	30.04	240.64	104.99	184.79	-44.90	333.97
	35.73	285.21	124.49	219.02	-53.04	395.82
	39.14	311.94	136.20	239.55	-57.92	432.93
	40.44	311.94	136.85	239.55	-55.96	432.93
	37.03	285.21	125.15	219.02	-51.08	395.82
	31.35	240.64	105.64	184.79	-42.95	333.97
	23.39	178.25	78.34	136.88	-31.56	247.39

	13.16	98.04	43.23	75.29	-16.92	136.06
	0.00	0.65	0.00	0.33	0.00	0.98
3.40	-0.65	0.00	-0.33	0.00	-0.98	0.00
	11.76	96.69	42.04	74.27	-18.52	134.19
	21.92	175.80	76.71	135.04	-32.87	243.98
	29.82	237.33	103.67	182.31	-44.03	329.37
	35.47	281.29	122.93	216.07	-52.00	390.37
	38.85	307.66	134.49	236.33	-56.78	426.97
	40.16	307.66	135.14	236.33	-54.83	426.97
	36.77	281.29	123.58	216.07	-50.04	390.37
	31.13	237.33	104.32	182.31	-42.07	329.37
	23.23	175.80	77.36	135.04	-30.91	243.98
	13.07	96.69	42.70	74.27	-16.56	134.19
	0.00	0.65	0.00	0.33	0.00	0.98
	3.45	-0.65	0.00	-0.33	0.00	-0.98
11.68		95.38	41.52	73.29	-18.17	132.37
21.76		173.42	75.76	133.25	-32.24	240.67
29.61		234.12	102.39	179.89	-43.18	324.91
35.21		277.48	121.42	213.21	-50.99	385.08
38.58		303.49	132.83	233.20	-55.68	421.18
39.88		303.49	133.48	233.20	-53.72	421.18
36.52		277.48	122.07	213.21	-49.03	385.08
30.91		234.12	103.05	179.89	-41.22	324.91
23.07		173.42	76.41	133.25	-30.28	240.67
12.98		95.38	42.17	73.29	-16.21	132.37
0.00		0.65	0.00	0.33	0.00	0.98
3.50		-0.65	0.00	-0.33	0.00	-0.98
	11.59	94.11	41.02	72.34	-17.83	130.60
	21.61	171.11	74.84	131.52	-31.62	237.46
	29.40	231.00	101.15	177.55	-42.35	320.57
	34.97	273.78	119.94	210.43	-50.01	379.94
	38.31	299.45	131.22	230.16	-54.60	415.55
	39.61	299.45	131.87	230.16	-52.65	415.55
	36.27	273.78	120.60	210.43	-48.05	379.94
	30.71	231.00	101.80	177.55	-40.39	320.57
	22.91	171.11	75.49	131.52	-29.67	237.46
	12.90	94.11	41.67	72.34	-15.88	130.60
	0.00	0.65	0.00	0.33	0.00	0.98
	3.55	-0.65	0.00	-0.33	0.00	-0.98
11.51		92.88	40.53	71.41	-17.50	128.89
21.46		168.87	73.95	129.83	-31.03	234.34
29.20		227.97	99.95	175.27	-41.54	316.36
34.73		270.19	118.51	207.73	-49.05	374.94
38.05		295.52	129.66	227.20	-53.56	410.09
39.35		295.52	130.31	227.20	-51.61	410.09

	36.03	270.19	119.17	207.73	-47.10	374.94
	30.51	227.97	100.60	175.27	-39.59	316.36
	22.77	168.87	74.60	129.83	-29.07	234.34
	12.81	92.88	41.18	71.41	-15.55	128.89
	0.00	0.65	0.00	0.33	0.00	0.98
3.60	-0.65	0.00	-0.33	0.00	-0.98	0.00
	11.43	91.68	40.05	70.50	-17.18	127.22
	21.32	166.69	73.08	128.19	-30.44	231.30
	29.01	225.03	98.77	173.06	-40.76	312.26
	34.50	266.70	117.12	205.10	-48.13	370.08
	37.79	291.70	128.14	224.33	-52.55	404.78
	39.10	291.70	128.79	224.33	-50.59	404.78
	35.80	266.70	117.78	205.10	-46.17	370.08
	30.31	225.03	99.42	173.06	-38.80	312.26
	22.62	166.69	73.73	128.19	-28.49	231.30
	12.73	91.68	40.70	70.50	-15.23	127.22
	0.00	0.65	0.00	0.33	0.00	0.98
3.65	-0.65	0.00	-0.33	0.00	-0.98	0.00
	11.35	90.51	39.58	69.63	-16.87	125.59
	21.18	164.56	72.24	126.60	-29.88	228.35
	28.82	222.16	97.63	170.90	-40.00	308.28
	34.28	263.30	115.77	202.55	-47.22	365.36
	37.55	287.99	126.66	221.54	-51.56	399.62
	38.85	287.99	127.31	221.54	-49.60	399.62
	35.58	263.30	116.42	202.55	-45.27	365.36
	30.12	222.16	98.28	170.90	-38.04	308.28
	22.48	164.56	72.89	126.60	-27.93	228.35
	12.66	90.51	40.23	69.63	-14.92	125.59
	0.00	0.65	0.00	0.33	0.00	0.98
3.70	-0.65	0.00	-0.33	0.00	-0.98	0.00
	11.28	89.37	39.13	68.77	-16.57	124.01
	21.04	162.50	71.41	125.04	-29.33	225.48
	28.63	219.37	96.52	168.81	-39.25	304.40
	34.06	260.00	114.46	200.07	-46.34	360.77
	37.31	284.37	125.22	218.83	-50.60	394.59
	38.62	284.37	125.87	218.83	-48.64	394.59
	35.36	260.00	115.11	200.07	-44.39	360.77
	29.94	219.37	97.18	168.81	-37.30	304.40
	22.35	162.50	72.07	125.04	-27.38	225.48
	12.58	89.37	39.78	68.77	-14.62	124.01
	0.00	0.65	0.00	0.33	0.00	0.98
3.75	-0.65	0.00	-0.33	0.00	-0.98	0.00
	11.21	88.27	38.69	67.94	-16.28	122.48
	20.91	160.49	70.62	123.53	-28.80	222.69
	28.46	216.66	95.44	166.77	-38.53	300.63

	33.85	256.78	113.18	197.65	-45.49	356.30
	37.08	280.86	123.82	216.18	-49.66	389.70
	38.38	280.86	124.47	216.18	-47.70	389.70
	35.15	256.78	113.83	197.65	-43.53	356.30
	29.76	216.66	96.10	166.77	-36.58	300.63
	22.21	160.49	71.27	123.53	-26.84	222.69
	12.51	88.27	39.34	67.94	-14.32	122.48
	0.00	0.65	0.00	0.33	0.00	0.98
3.80	-0.65	0.00	-0.33	0.00	-0.98	0.00
	11.14	87.19	38.26	67.14	-15.99	120.98
	20.78	158.53	69.84	122.06	-28.27	219.97
	28.28	214.02	94.39	164.79	-37.83	296.95
	33.64	253.65	111.94	195.30	-44.65	351.95
	36.86	277.43	122.46	213.61	-48.75	384.94
	38.16	277.43	123.11	213.61	-46.79	384.94
	34.95	253.65	112.59	195.30	-42.70	351.95
	29.59	214.02	95.05	164.79	-35.87	296.95
	22.09	158.53	70.49	122.06	-26.32	219.97
	12.44	87.19	38.92	67.14	-14.04	120.98
	0.00	0.65	0.00	0.33	0.00	0.98
3.85	-0.65	0.00	-0.33	0.00	-0.98	0.00
	11.07	86.15	37.85	66.35	-15.71	119.52
	20.66	156.63	69.08	120.63	-27.77	217.32
	28.12	211.45	93.37	162.85	-37.14	293.38
	33.44	250.61	110.72	193.01	-43.84	347.71
	36.64	274.10	121.13	211.11	-47.86	380.31
	37.94	274.10	121.79	211.11	-45.90	380.31
	34.75	250.61	111.37	193.01	-41.88	347.71
	29.42	211.45	94.02	162.85	-35.19	293.38
	21.96	156.63	69.73	120.63	-25.81	217.32
	12.37	86.15	38.50	66.35	-13.76	119.52
	0.00	0.65	0.00	0.33	0.00	0.98
3.90	-0.65	0.00	-0.33	0.00	-0.98	0.00
	11.00	85.12	37.44	65.58	-15.44	118.11
	20.54	154.77	68.34	119.24	-27.27	214.74
	27.95	208.94	92.38	160.97	-36.47	289.89
	33.25	247.64	109.54	190.78	-43.05	343.58
	36.43	270.85	119.84	208.67	-46.99	375.79
	37.73	270.85	120.49	208.67	-45.03	375.79
	34.55	247.64	110.19	190.78	-41.09	343.58
	29.26	208.94	93.03	160.97	-34.52	289.89
	21.84	154.77	68.99	119.24	-25.31	214.74
	12.30	85.12	38.09	65.58	-13.48	118.11
	0.00	0.65	0.00	0.33	0.00	0.98
3.95	-0.65	0.00	-0.33	0.00	-0.98	0.00

	10.94	84.13	37.05	64.83	-15.17	116.72
	20.42	152.96	67.62	117.88	-26.79	212.22
	27.79	206.50	91.41	159.14	-35.82	286.50
	33.06	244.74	108.39	188.61	-42.27	339.55
	36.22	267.69	118.58	206.29	-46.14	371.39
	37.52	267.69	119.24	206.29	-44.19	371.39
	34.36	244.74	109.04	188.61	-40.32	339.55
	29.10	206.50	92.06	159.14	-33.86	286.50
	21.72	152.96	68.27	117.88	-24.83	212.22
	12.24	84.13	37.70	64.83	-13.22	116.72
	0.00	0.65	0.00	0.33	0.00	0.98
4.00	-0.65	0.00	-0.33	0.00	-0.98	0.00
	10.87	83.16	36.66	64.10	-14.91	115.37
	20.30	151.20	66.92	116.55	-26.32	209.77
	27.64	204.12	90.46	157.35	-35.18	283.19
	32.88	241.92	107.27	186.49	-41.52	335.63
	36.02	264.60	117.36	203.97	-45.32	367.10
	37.32	264.60	118.01	203.97	-43.36	367.10
	34.18	241.92	107.92	186.49	-39.56	335.63
	28.94	204.12	91.11	157.35	-33.23	283.19
	21.61	151.20	67.57	116.55	-24.36	209.77
	12.18	83.16	37.31	64.10	-12.96	115.37
	0.00	0.65	0.00	0.33	0.00	0.98
4.05	-0.65	0.00	-0.33	0.00	-0.98	0.00
	10.81	82.21	36.28	63.39	-14.66	114.06
	20.19	149.48	66.24	115.26	-25.86	207.38
	27.49	201.80	89.54	155.60	-34.56	279.96
	32.70	239.17	106.18	184.42	-40.78	331.81
	35.82	261.59	116.16	201.71	-44.51	362.91
	37.13	261.59	116.81	201.71	-42.56	362.91
	34.00	239.17	106.83	184.42	-38.83	331.81
	28.79	201.80	90.19	155.60	-32.61	279.96
	21.50	149.48	66.89	115.26	-23.90	207.38
	12.12	82.21	36.94	63.39	-12.71	114.06
	0.00	0.65	0.00	0.33	0.00	0.98
4.10	-0.65	0.00	-0.33	0.00	-0.98	0.00
	10.75	81.29	35.92	62.70	-14.41	112.78
	20.08	147.80	65.57	114.00	-25.41	205.05
	27.34	199.53	88.64	153.90	-33.96	276.81
	32.52	236.49	105.11	182.40	-40.06	328.07
	35.63	258.66	115.00	199.50	-43.73	358.83
	36.94	258.66	115.65	199.50	-41.77	358.83
	33.83	236.49	105.76	182.40	-38.11	328.07
	28.64	199.53	89.29	153.90	-32.00	276.81
	21.39	147.80	66.22	114.00	-23.45	205.05

	12.06	81.29	36.57	62.70	-12.46	112.78
	0.00	0.65	0.00	0.33	0.00	0.98
4.15	-0.65	0.00	-0.33	0.00	-0.98	0.00
	10.69	80.39	35.56	62.02	-14.17	111.52
	19.98	146.17	64.92	112.77	-24.97	202.77
	27.20	197.32	87.76	152.24	-33.37	273.74
	32.35	233.87	104.07	180.44	-39.36	324.43
	35.45	255.79	113.86	197.35	-42.96	354.85
	36.75	255.79	114.51	197.35	-41.01	354.85
	33.66	233.87	104.72	180.44	-37.41	324.43
	28.50	197.32	88.41	152.24	-31.41	273.74
	21.28	146.17	65.57	112.77	-23.01	202.77
	12.00	80.39	36.21	62.02	-12.22	111.52
	0.00	0.65	0.00	0.33	0.00	0.98
4.20	-0.65	0.00	-0.33	0.00	-0.98	0.00
	10.64	79.51	35.21	61.36	-13.94	110.30
	19.87	144.57	64.29	111.57	-24.54	200.55
	27.06	195.17	86.90	150.62	-32.79	270.74
	32.19	231.31	103.06	178.52	-38.68	320.88
	35.27	253.00	112.75	195.25	-42.21	350.96
	36.57	253.00	113.40	195.25	-40.26	350.96
	33.49	231.31	103.71	178.52	-36.72	320.88
	28.36	195.17	87.56	150.62	-30.83	270.74
	21.18	144.57	64.94	111.57	-22.59	200.55
	11.94	79.51	35.86	61.36	-11.98	110.30
	0.00	0.65	0.00	0.33	0.00	0.98
4.25	-0.65	0.00	-0.33	0.00	-0.98	0.00
	10.58	78.65	34.87	60.72	-13.71	109.11
	19.77	143.01	63.67	110.40	-24.12	198.38
	26.92	193.06	86.07	149.04	-32.22	267.81
	32.03	228.81	102.07	176.64	-38.01	317.41
	35.09	250.27	111.67	193.20	-41.48	347.16
	36.40	250.27	112.32	193.20	-39.53	347.16
	33.33	228.81	102.72	176.64	-36.05	317.41
	28.23	193.06	86.72	149.04	-30.27	267.81
	21.08	143.01	64.32	110.40	-22.17	198.38
	11.89	78.65	35.52	60.72	-11.75	109.11
	0.00	0.65	0.00	0.33	0.00	0.98
4.30	-0.65	0.00	-0.33	0.00	-0.98	0.00
	10.53	77.82	34.54	60.09	-13.48	107.94
	19.68	141.49	63.06	109.26	-23.71	196.26
	26.79	191.01	85.25	147.50	-31.67	264.95
	31.87	226.38	101.10	174.81	-37.36	314.02
	34.92	247.60	110.61	191.20	-40.77	343.46
	36.22	247.60	111.26	191.20	-38.81	343.46

	33.18	226.38	101.75	174.81	-35.40	314.02
	28.09	191.01	85.90	147.50	-29.72	264.95
	20.98	141.49	63.72	109.26	-21.76	196.26
	11.83	77.82	35.19	60.09	-11.53	107.94
	0.00	0.65	0.00	0.33	0.00	0.98
4.35	-0.65	0.00	-0.33	0.00	-0.98	0.00
	10.48	77.00	34.21	59.48	-13.26	106.80
	19.58	140.00	62.47	108.14	-23.31	194.19
	26.66	189.00	84.45	145.99	-31.13	262.16
	31.72	224.00	100.15	173.02	-36.72	310.71
	34.75	245.00	109.57	189.24	-40.07	339.83
	36.06	245.00	110.23	189.24	-38.11	339.83
	33.02	224.00	100.81	173.02	-34.76	310.71
	27.96	189.00	85.11	145.99	-29.18	262.16
	20.88	140.00	63.13	108.14	-21.36	194.19
	11.78	77.00	34.87	59.48	-11.31	106.80
	0.00	0.65	0.00	0.33	0.00	0.98
4.40	-0.65	0.00	-0.33	0.00	-0.98	0.00
	10.42	76.20	33.90	58.88	-13.05	105.69
	19.49	138.54	61.90	107.05	-22.92	192.17
	26.54	187.03	83.68	144.51	-30.61	259.43
	31.57	221.67	99.23	171.27	-36.09	307.47
	34.59	242.45	108.56	187.33	-39.38	336.29
	35.89	242.45	109.22	187.33	-37.43	336.29
	32.87	221.67	99.88	171.27	-34.14	307.47
	27.84	187.03	84.33	144.51	-28.65	259.43
	20.79	138.54	62.55	107.05	-20.97	192.17
	11.73	76.20	34.55	58.88	-11.09	105.69
	0.00	0.65	0.00	0.33	0.00	0.98
4.45	-0.65	0.00	-0.33	0.00	-0.98	0.00
	10.37	75.42	33.59	58.29	-12.84	104.61
	19.40	137.12	61.33	105.98	-22.54	190.19
	26.41	185.11	82.91	143.07	-30.09	256.76
	31.42	219.39	98.33	169.57	-35.48	304.31
	34.43	239.96	107.58	185.46	-38.72	332.84
	35.73	239.96	108.23	185.46	-36.76	332.84
	32.73	219.39	98.98	169.57	-33.53	304.31
	27.72	185.11	83.57	143.07	-28.13	256.76
	20.70	137.12	61.99	105.98	-20.59	190.19
	11.68	75.42	34.24	58.29	-10.88	104.61
	0.00	0.65	0.00	0.33	0.00	0.98
4.50	-0.65	0.00	-0.33	0.00	-0.98	0.00
	10.33	74.65	33.28	57.71	-12.63	103.54
	19.31	135.73	60.78	104.94	-22.17	188.26
	26.29	183.24	82.17	141.66	-29.59	254.15

	31.28	217.17	97.45	167.90	-34.88	301.22
	34.28	237.53	106.61	183.64	-38.06	329.45
	35.58	237.53	107.26	183.64	-36.11	329.45
	32.59	217.17	98.10	167.90	-32.93	301.22
	27.60	183.24	82.82	141.66	-27.63	254.15
	20.61	135.73	61.43	104.94	-20.21	188.26
	11.63	74.65	33.94	57.71	-10.68	103.54
	0.00	0.65	0.00	0.33	0.00	0.98

En la Tabla 11 Tabla 10 se muestran las combinaciones de esfuerzos para los montantes en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 11. Combinación de esfuerzos de los montantes - 12 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)
0.50	2.65	13.24	6.42	10.43	-1.11	18.34
	-119.19	-24.13	-93.83	-57.88	-165.04	9.62
	-92.70	-18.83	-72.98	-45.05	-128.37	7.39
	-66.22	-13.52	-52.13	-32.21	-91.69	5.17
	-39.73	-8.22	-31.28	-19.38	-55.01	2.94
	-13.24	-2.92	-10.43	-6.55	-18.34	0.72
	0.00	0.00	0.00	0.00	0.00	0.00
	-13.24	-2.39	-10.43	-6.28	-18.34	1.51
	-39.73	-7.69	-31.28	-19.12	-55.01	3.74
	-66.22	-12.99	-52.13	-31.95	-91.69	5.96
	-92.70	-18.30	-72.98	-44.78	-128.37	8.19
	-119.19	-23.60	-93.83	-57.61	-165.04	10.41
	2.65	13.24	6.42	10.43	-1.11	18.34
0.55	2.57	13.16	6.33	10.34	-1.20	18.22
	-118.42	-23.39	-93.07	-57.13	-164.01	10.35
	-92.11	-18.26	-72.39	-44.46	-127.56	7.95
	-65.79	-13.12	-51.70	-31.80	-91.11	5.55
	-39.47	-7.99	-31.02	-19.14	-54.67	3.16
	-13.16	-2.86	-10.34	-6.48	-18.22	0.76
	0.00	0.00	0.00	0.00	0.00	0.00
	-13.16	-2.27	-10.34	-6.19	-18.22	1.64
	-39.47	-7.41	-31.02	-18.85	-54.67	4.03
	-65.79	-12.54	-51.70	-31.51	-91.11	6.43
	-92.11	-17.67	-72.39	-44.17	-127.56	8.82
	-118.42	-22.81	-93.07	-56.83	-164.01	11.22
	2.57	13.16	6.33	10.34	-1.20	18.22
0.60	2.35	12.94	6.11	10.12	-1.42	17.93
	-116.46	-21.45	-91.11	-55.18	-161.36	12.27

		-90.58	-16.76	-70.86	-42.95	-125.50	9.44
		-64.70	-12.06	-50.61	-30.72	-89.64	6.60
		-38.82	-7.36	-30.37	-18.50	-53.79	3.77
		-12.94	-2.67	-10.12	-6.27	-17.93	0.94
		0.00	0.00	0.00	0.00	0.00	0.00
		-12.94	-2.03	-10.12	-5.95	-17.93	1.89
		-38.82	-6.73	-30.37	-18.18	-53.79	4.73
		-64.70	-11.42	-50.61	-30.41	-89.64	7.56
		-90.58	-16.12	-70.86	-42.63	-125.50	10.39
		-116.46	-20.82	-91.11	-54.86	-161.36	13.22
		2.35	12.94	6.11	10.12	-1.42	17.93
		2.23	12.82	5.99	10.00	-1.54	17.77
		-115.38	-20.40	-90.02	-54.11	-159.90	13.31
		-89.74	-15.94	-70.02	-42.12	-124.37	10.24
		-64.10	-11.49	-50.01	-30.14	-88.83	7.16
		-38.46	-7.03	-30.01	-18.15	-53.30	4.09
		-12.82	-2.57	-10.00	-6.17	-17.77	1.02
		0.00	0.00	0.00	0.00	0.00	0.00
		-12.82	-1.88	-10.00	-5.82	-17.77	2.05
		-38.46	-6.34	-30.01	-17.81	-53.30	5.13
		-64.10	-10.80	-50.01	-29.79	-88.83	8.20
		-89.74	-15.25	-70.02	-41.78	-124.37	11.27
		-115.38	-19.71	-90.02	-53.77	-159.90	14.34
		2.23	12.82	5.99	10.00	-1.54	17.77
		2.06	12.65	5.82	9.83	-1.71	17.54
		-113.84	-18.89	-88.49	-52.59	-157.82	14.81
		-88.55	-14.77	-68.82	-40.94	-122.75	11.39
		-63.25	-10.66	-49.16	-29.30	-87.68	7.98
		-37.95	-6.54	-29.50	-17.65	-52.61	4.56
		-12.65	-2.43	-9.83	-6.01	-17.54	1.15
		0.00	0.00	0.00	0.00	0.00	0.00
		-12.65	-1.69	-9.83	-5.64	-17.54	2.26
		-37.95	-5.80	-29.50	-17.28	-52.61	5.68
		-63.25	-9.92	-49.16	-28.93	-87.68	9.09
		-88.55	-14.03	-68.82	-40.57	-122.75	12.51
		-113.84	-18.15	-88.49	-52.21	-157.82	15.92
		2.06	12.65	5.82	9.83	-1.71	17.54
		1.94	12.53	5.71	9.71	-1.82	17.38
		-112.79	-17.86	-87.43	-51.54	-156.40	15.82
		-87.73	-13.98	-68.00	-40.13	-121.65	12.17
		-62.66	-10.10	-48.57	-28.72	-86.89	8.52
		-37.60	-6.22	-29.14	-17.31	-52.13	4.88
		-12.53	-2.34	-9.71	-5.90	-17.38	1.23
		0.00	0.00	0.00	0.00	0.00	0.00
		-12.53	-1.54	-9.71	-5.51	-17.38	2.42

	-37.60	-5.42	-29.14	-16.92	-52.13	6.07
	-62.66	-9.30	-48.57	-28.33	-86.89	9.72
	-87.73	-13.19	-68.00	-39.74	-121.65	13.37
	-112.79	-17.07	-87.43	-51.15	-156.40	17.01
	1.94	12.53	5.71	9.71	-1.82	17.38
0.80	1.81	12.40	5.58	9.59	-1.95	17.20
	-111.62	-16.72	-86.27	-50.39	-154.83	16.95
	-86.82	-13.10	-67.10	-39.24	-120.42	13.04
	-62.01	-9.48	-47.93	-28.09	-86.01	9.13
	-37.21	-5.86	-28.76	-16.94	-51.61	5.23
	-12.40	-2.23	-9.59	-5.79	-17.20	1.32
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.40	-1.39	-9.59	-5.36	-17.20	2.59
	-37.21	-5.01	-28.76	-16.51	-51.61	6.50
	-62.01	-8.63	-47.93	-27.67	-86.01	10.41
	-86.82	-12.25	-67.10	-38.82	-120.42	14.31
	-111.62	-15.87	-86.27	-49.97	-154.83	18.22
	1.81	12.40	5.58	9.59	-1.95	17.20
0.85	1.75	12.34	5.51	9.52	-2.01	17.12
	-111.08	-16.20	-85.72	-49.86	-154.09	17.45
	-86.39	-12.70	-66.67	-38.83	-119.85	13.42
	-61.71	-9.20	-47.62	-27.80	-85.61	9.40
	-37.03	-5.70	-28.57	-16.77	-51.36	5.37
	-12.34	-2.20	-9.52	-5.74	-17.12	1.34
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.34	-1.30	-9.52	-5.29	-17.12	2.69
	-37.03	-4.80	-28.57	-16.32	-51.36	6.72
	-61.71	-8.30	-47.62	-27.35	-85.61	10.75
	-86.39	-11.80	-66.67	-38.38	-119.85	14.78
	-111.08	-15.30	-85.72	-49.41	-154.09	18.80
	1.75	12.34	5.51	9.52	-2.01	17.12
0.90	1.69	12.28	5.45	9.46	-2.08	17.04
	-110.51	-15.66	-85.15	-49.30	-153.32	17.98
	-85.95	-12.29	-66.23	-38.40	-119.25	13.83
	-61.39	-8.91	-47.31	-27.50	-85.18	9.67
	-36.84	-5.54	-28.38	-16.59	-51.11	5.52
	-12.28	-2.16	-9.46	-5.69	-17.04	1.36
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.28	-1.21	-9.46	-5.21	-17.04	2.79
	-36.84	-4.58	-28.38	-16.12	-51.11	6.95
	-61.39	-7.96	-47.31	-27.02	-85.18	11.10
	-85.95	-11.33	-66.23	-37.92	-119.25	15.26
	-110.51	-14.71	-85.15	-48.83	-153.32	19.41
	1.69	12.28	5.45	9.46	-2.08	17.04
0.95	1.65	12.24	5.41	9.42	-2.12	16.98

	-110.14	-15.32	-84.78	-48.95	-152.82	18.31
	-85.66	-12.02	-65.94	-38.13	-118.86	14.08
	-61.19	-8.73	-47.10	-27.30	-84.90	9.84
	-36.71	-5.44	-28.26	-16.48	-50.94	5.60
	-12.24	-2.15	-9.42	-5.66	-16.98	1.36
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.24	-1.14	-9.42	-5.16	-16.98	2.87
	-36.71	-4.43	-28.26	-15.98	-50.94	7.11
	-61.19	-7.73	-47.10	-26.80	-84.90	11.35
	-85.66	-11.02	-65.94	-37.62	-118.86	15.59
	-110.14	-14.31	-84.78	-48.44	-152.82	19.82
	1.65	12.24	5.41	9.42	-2.12	16.98
	1.48	12.07	5.25	9.26	-2.28	16.76
1.00	-108.66	-13.87	-83.31	-47.48	-150.83	19.75
	-84.52	-10.90	-64.79	-36.99	-117.31	15.18
	-60.37	-7.94	-46.28	-26.50	-83.79	10.62
	-36.22	-4.98	-27.77	-16.00	-50.28	6.05
	-12.07	-2.01	-9.26	-5.51	-16.76	1.49
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.07	-0.95	-9.26	-4.98	-16.76	3.08
	-36.22	-3.92	-27.77	-15.47	-50.28	7.64
	-60.37	-6.88	-46.28	-25.97	-83.79	12.21
	-84.52	-9.84	-64.79	-36.46	-117.31	16.77
	-108.66	-12.81	-83.31	-46.95	-150.83	21.34
	1.48	12.07	5.25	9.26	-2.28	16.76
	1.49	12.08	5.26	9.27	-2.27	16.77
1.05	-108.76	-13.99	-83.40	-47.59	-150.95	19.62
	-84.59	-11.00	-64.86	-37.08	-117.41	15.07
	-60.42	-8.02	-46.33	-26.56	-83.86	10.53
	-36.25	-5.03	-27.80	-16.05	-50.32	5.98
	-12.08	-2.05	-9.27	-5.53	-16.77	1.44
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.08	-0.94	-9.27	-4.98	-16.77	3.11
	-36.25	-3.92	-27.80	-15.49	-50.32	7.65
	-60.42	-6.90	-46.33	-26.01	-83.86	12.20
	-84.59	-9.89	-64.86	-36.52	-117.41	16.74
	-108.76	-12.87	-83.40	-47.03	-150.95	21.29
	1.49	12.08	5.26	9.27	-2.27	16.77
	1.50	12.09	5.27	9.28	-2.26	16.79
1.10	-108.85	-14.11	-83.49	-47.70	-151.08	19.49
	-84.66	-11.10	-64.94	-37.16	-117.51	14.96
	-60.47	-8.10	-46.38	-26.63	-83.93	10.44
	-36.28	-5.09	-27.83	-16.09	-50.36	5.91
	-12.09	-2.09	-9.28	-5.56	-16.79	1.39
	0.00	0.00	0.00	0.00	0.00	0.00

	-12.09	-0.92	-9.28	-4.98	-16.79	3.14
	-36.28	-3.92	-27.83	-15.51	-50.36	7.66
	-60.47	-6.93	-46.38	-26.04	-83.93	12.19
	-84.66	-9.93	-64.94	-36.58	-117.51	16.71
	-108.85	-12.94	-83.49	-47.11	-151.08	21.23
	1.50	12.09	5.27	9.28	-2.26	16.79
1.15	1.51	12.10	5.28	9.29	-2.25	16.80
	-108.94	-14.23	-83.59	-47.80	-151.21	19.35
	-84.73	-11.20	-65.01	-37.25	-117.61	14.85
	-60.52	-8.17	-46.44	-26.69	-84.00	10.34
	-36.31	-5.15	-27.86	-16.14	-50.40	5.84
	-12.10	-2.12	-9.29	-5.58	-16.80	1.34
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.10	-0.90	-9.29	-4.97	-16.80	3.17
	-36.31	-3.93	-27.86	-15.53	-50.40	7.67
	-60.52	-6.96	-46.44	-26.08	-84.00	12.17
	-84.73	-9.98	-65.01	-36.64	-117.61	16.68
	-108.94	-13.01	-83.59	-47.19	-151.21	21.18
	1.51	12.10	5.28	9.29	-2.25	16.80
1.20	1.45	12.04	5.21	9.22	-2.32	16.71
	-108.35	-13.66	-82.99	-47.22	-150.40	19.91
	-84.27	-10.76	-64.55	-36.80	-116.98	15.27
	-60.19	-7.87	-46.11	-26.38	-83.56	10.64
	-36.12	-4.98	-27.66	-15.95	-50.13	6.00
	-12.04	-2.08	-9.22	-5.53	-16.71	1.36
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.04	-0.81	-9.22	-4.89	-16.71	3.27
	-36.12	-3.70	-27.66	-15.32	-50.13	7.91
	-60.19	-6.60	-46.11	-25.74	-83.56	12.54
	-84.27	-9.49	-64.55	-36.16	-116.98	17.18
	-108.35	-12.38	-82.99	-46.58	-150.40	21.82
	1.45	12.04	5.21	9.22	-2.32	16.71
1.25	1.46	12.05	5.22	9.23	-2.31	16.73
	-108.44	-13.78	-83.09	-47.33	-150.53	19.77
	-84.35	-10.87	-64.62	-36.89	-117.08	15.16
	-60.25	-7.95	-46.16	-26.44	-83.63	10.54
	-36.15	-5.04	-27.70	-16.00	-50.18	5.93
	-12.05	-2.12	-9.23	-5.55	-16.73	1.31
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.05	-0.80	-9.23	-4.89	-16.73	3.30
	-36.15	-3.71	-27.70	-15.34	-50.18	7.92
	-60.25	-6.63	-46.16	-25.78	-83.63	12.53
	-84.35	-9.54	-64.62	-36.22	-117.08	17.14
	-108.44	-12.46	-83.09	-46.67	-150.53	21.76
	1.46	12.05	5.22	9.23	-2.31	16.73

1.30	1.43	12.02	5.19	9.20	-2.33	16.69
	-108.20	-13.56	-82.84	-47.10	-150.20	19.98
	-84.15	-10.70	-64.43	-36.71	-116.82	15.31
	-60.11	-7.84	-46.02	-26.32	-83.45	10.64
	-36.07	-4.98	-27.61	-15.93	-50.07	5.97
	-12.02	-2.12	-9.20	-5.54	-16.69	1.30
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.02	-0.74	-9.20	-4.85	-16.69	3.37
	-36.07	-3.60	-27.61	-15.24	-50.07	8.04
	-60.11	-6.46	-46.02	-25.63	-83.45	12.71
	-84.15	-9.32	-64.43	-36.02	-116.82	17.37
	-108.20	-12.18	-82.84	-46.41	-150.20	22.04
	1.43	12.02	5.19	9.20	-2.33	16.69
1.35	1.44	12.03	5.21	9.22	-2.32	16.70
	-108.30	-13.68	-82.94	-47.21	-150.33	19.84
	-84.23	-10.80	-64.51	-36.80	-116.93	15.19
	-60.16	-7.92	-46.08	-26.39	-83.52	10.55
	-36.10	-5.04	-27.65	-15.97	-50.11	5.90
	-12.03	-2.16	-9.22	-5.56	-16.70	1.25
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.03	-0.73	-9.22	-4.85	-16.70	3.40
	-36.10	-3.61	-27.65	-15.26	-50.11	8.04
	-60.16	-6.49	-46.08	-25.67	-83.52	12.69
	-84.23	-9.37	-64.51	-36.08	-116.93	17.34
	-108.30	-12.25	-82.94	-46.49	-150.33	21.99
	1.44	12.03	5.21	9.22	-2.32	16.70
1.40	1.38	11.97	5.14	9.15	-2.39	16.62
	-107.73	-13.15	-82.37	-46.66	-149.57	20.36
	-83.79	-10.39	-64.07	-36.37	-116.33	15.59
	-59.85	-7.63	-45.76	-26.09	-83.10	10.82
	-35.91	-4.88	-27.46	-15.80	-49.86	6.05
	-11.97	-2.12	-9.15	-5.51	-16.62	1.27
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.97	-0.64	-9.15	-4.77	-16.62	3.50
	-35.91	-3.39	-27.46	-15.06	-49.86	8.27
	-59.85	-6.15	-45.76	-25.34	-83.10	13.04
	-83.79	-8.91	-64.07	-35.63	-116.33	17.82
	-107.73	-11.66	-82.37	-45.92	-149.57	22.59
	1.38	11.97	5.14	9.15	-2.39	16.62
1.45	1.35	11.94	5.11	9.12	-2.41	16.58
	-107.48	-12.92	-82.12	-46.42	-149.23	20.58
	-83.59	-10.22	-63.87	-36.19	-116.07	15.75
	-59.71	-7.52	-45.62	-25.96	-82.90	10.92
	-35.83	-4.82	-27.37	-15.73	-49.74	6.09
	-11.94	-2.12	-9.12	-5.50	-16.58	1.26

	0.00	0.00	0.00	0.00	0.00	0.00
	-11.94	-0.58	-9.12	-4.73	-16.58	3.57
	-35.83	-3.28	-27.37	-14.96	-49.74	8.40
	-59.71	-5.98	-45.62	-25.19	-82.90	13.23
	-83.59	-8.68	-63.87	-35.42	-116.07	18.05
	-107.48	-11.38	-82.12	-45.65	-149.23	22.88
	1.35	11.94	5.11	9.12	-2.41	16.58
1.50	1.36	11.95	5.13	9.14	-2.40	16.60
	-107.57	-13.04	-82.22	-46.53	-149.36	20.44
	-83.67	-10.32	-63.95	-36.28	-116.17	15.63
	-59.76	-7.60	-45.68	-26.02	-82.98	10.83
	-35.86	-4.88	-27.41	-15.77	-49.79	6.02
	-11.95	-2.16	-9.14	-5.52	-16.60	1.21
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.95	-0.57	-9.14	-4.73	-16.60	3.60
	-35.86	-3.29	-27.41	-14.98	-49.79	8.40
	-59.76	-6.01	-45.68	-25.23	-82.98	13.21
	-83.67	-8.73	-63.95	-35.48	-116.17	18.02
	-107.57	-11.45	-82.22	-45.73	-149.36	22.83
	1.36	11.95	5.13	9.14	-2.40	16.60
1.55	1.37	11.96	5.14	9.15	-2.39	16.61
	-107.67	-13.17	-82.31	-46.64	-149.49	20.31
	-83.74	-10.42	-64.02	-36.36	-116.27	15.52
	-59.82	-7.68	-45.73	-26.09	-83.05	10.73
	-35.89	-4.94	-27.44	-15.82	-49.83	5.95
	-11.96	-2.19	-9.15	-5.55	-16.61	1.16
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.96	-0.55	-9.15	-4.73	-16.61	3.63
	-35.89	-3.29	-27.44	-15.00	-49.83	8.41
	-59.82	-6.04	-45.73	-25.27	-83.05	13.20
	-83.74	-8.78	-64.02	-35.54	-116.27	17.98
	-107.67	-11.52	-82.31	-45.81	-149.49	22.77
	1.37	11.96	5.14	9.15	-2.39	16.61
1.60	1.38	11.97	5.14	9.15	-2.39	16.62
	-107.71	-13.23	-82.35	-46.69	-149.55	20.22
	-83.78	-10.48	-64.05	-36.41	-116.31	15.45
	-59.84	-7.73	-45.75	-26.13	-83.08	10.67
	-35.90	-4.98	-27.45	-15.85	-49.85	5.89
	-11.97	-2.22	-9.15	-5.56	-16.62	1.12
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.97	-0.53	-9.15	-4.72	-16.62	3.66
	-35.90	-3.28	-27.45	-15.00	-49.85	8.44
	-59.84	-6.03	-45.75	-25.28	-83.08	13.21
	-83.78	-8.79	-64.05	-35.56	-116.31	17.99
	-107.71	-11.54	-82.35	-45.84	-149.55	22.77

	1.38	11.97	5.14	9.15	-2.39	16.62
1.65	1.39	11.98	5.15	9.16	-2.38	16.63
	-107.81	-13.36	-82.45	-46.80	-149.68	20.09
	-83.85	-10.58	-64.13	-36.50	-116.42	15.33
	-59.89	-7.81	-45.81	-26.20	-83.16	10.58
	-35.94	-5.04	-27.48	-15.89	-49.89	5.82
	-11.98	-2.26	-9.16	-5.59	-16.63	1.07
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.98	-0.51	-9.16	-4.71	-16.63	3.69
	-35.94	-3.29	-27.48	-15.02	-49.89	8.44
	-59.89	-6.06	-45.81	-25.32	-83.16	13.20
	-83.85	-8.84	-64.13	-35.63	-116.42	17.95
	-107.81	-11.61	-82.45	-45.93	-149.68	22.71
	1.39	11.98	5.15	9.16	-2.38	16.63
1.70	1.40	11.99	5.16	9.17	-2.37	16.65
	-107.91	-13.49	-82.55	-46.92	-149.81	19.95
	-83.93	-10.69	-64.21	-36.59	-116.52	15.21
	-59.95	-7.89	-45.86	-26.26	-83.23	10.48
	-35.97	-5.10	-27.52	-15.94	-49.94	5.75
	-11.99	-2.30	-9.17	-5.61	-16.65	1.01
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.99	-0.50	-9.17	-4.71	-16.65	3.72
	-35.97	-3.29	-27.52	-15.04	-49.94	8.45
	-59.95	-6.09	-45.86	-25.36	-83.23	13.18
	-83.93	-8.89	-64.21	-35.69	-116.52	17.92
	-107.91	-11.68	-82.55	-46.02	-149.81	22.65
	1.40	11.99	5.16	9.17	-2.37	16.65
1.75	1.34	11.93	5.10	9.11	-2.43	16.56
	-107.37	-12.97	-82.01	-46.39	-149.08	20.45
	-83.51	-10.30	-63.79	-36.18	-115.95	15.59
	-59.65	-7.62	-45.56	-25.98	-82.82	10.74
	-35.79	-4.94	-27.34	-15.77	-49.69	5.89
	-11.93	-2.27	-9.11	-5.57	-16.56	1.04
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.93	-0.41	-9.11	-4.64	-16.56	3.82
	-35.79	-3.09	-27.34	-14.84	-49.69	8.67
	-59.65	-5.76	-45.56	-25.05	-82.82	13.52
	-83.51	-8.44	-63.79	-35.26	-115.95	18.38
	-107.37	-11.12	-82.01	-45.46	-149.08	23.23
	1.34	11.93	5.10	9.11	-2.43	16.56
1.80	1.35	11.94	5.11	9.12	-2.42	16.58
	-107.47	-13.10	-82.11	-46.50	-149.22	20.31
	-83.59	-10.40	-63.87	-36.28	-116.06	15.48
	-59.71	-7.70	-45.62	-26.05	-82.90	10.65
	-35.82	-5.00	-27.37	-15.82	-49.74	5.81

	-11.94	-2.30	-9.12	-5.59	-16.58	0.98
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.94	-0.40	-9.12	-4.64	-16.58	3.85
	-35.82	-3.09	-27.37	-14.87	-49.74	8.68
	-59.71	-5.79	-45.62	-25.09	-82.90	13.51
	-83.59	-8.49	-63.87	-35.32	-116.06	18.34
	-107.47	-11.19	-82.11	-45.55	-149.22	23.17
	1.35	11.94	5.11	9.12	-2.42	16.58
1.85	1.36	11.95	5.13	9.13	-2.40	16.60
	-107.57	-13.23	-82.21	-46.62	-149.36	20.17
	-83.67	-10.50	-63.94	-36.37	-116.17	15.36
	-59.76	-7.78	-45.67	-26.12	-82.98	10.55
	-35.86	-5.06	-27.40	-15.87	-49.79	5.74
	-11.95	-2.34	-9.13	-5.62	-16.60	0.93
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.95	-0.38	-9.13	-4.64	-16.60	3.87
	-35.86	-3.10	-27.40	-14.89	-49.79	8.68
	-59.76	-5.82	-45.67	-25.14	-82.98	13.49
	-83.67	-8.54	-63.94	-35.39	-116.17	18.30
	-107.57	-11.27	-82.21	-45.64	-149.36	23.11
	1.36	11.95	5.13	9.13	-2.40	16.60
1.90	1.37	11.96	5.14	9.15	-2.39	16.61
	-107.67	-13.35	-82.32	-46.73	-149.49	20.02
	-83.75	-10.61	-64.02	-36.46	-116.27	15.24
	-59.82	-7.87	-45.73	-26.19	-83.05	10.45
	-35.89	-5.12	-27.44	-15.91	-49.83	5.67
	-11.96	-2.38	-9.15	-5.64	-16.61	0.88
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.96	-0.36	-9.15	-4.63	-16.61	3.90
	-35.89	-3.11	-27.44	-14.91	-49.83	8.69
	-59.82	-5.85	-45.73	-25.18	-83.05	13.47
	-83.75	-8.60	-64.02	-35.45	-116.27	18.26
	-107.67	-11.34	-82.32	-45.73	-149.49	23.04
	1.37	11.96	5.14	9.15	-2.39	16.61
1.95	1.38	11.98	5.15	9.16	-2.38	16.63
	-107.78	-13.48	-82.42	-46.85	-149.63	19.88
	-83.83	-10.72	-64.10	-36.55	-116.38	15.12
	-59.88	-7.95	-45.79	-26.26	-83.13	10.36
	-35.93	-5.18	-27.47	-15.96	-49.88	5.59
	-11.98	-2.42	-9.16	-5.66	-16.63	0.83
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.98	-0.35	-9.16	-4.63	-16.63	3.93
	-35.93	-3.12	-27.47	-14.93	-49.88	8.69
	-59.88	-5.88	-45.79	-25.22	-83.13	13.46
	-83.83	-8.65	-64.10	-35.52	-116.38	18.22

	-107.78	-11.42	-82.42	-45.82	-149.63	22.98
	1.38	11.98	5.15	9.16	-2.38	16.63
2.00	1.39	11.99	5.16	9.17	-2.37	16.64
	-107.88	-13.61	-82.52	-46.97	-149.77	19.74
	-83.91	-10.82	-64.18	-36.65	-116.49	15.00
	-59.93	-8.03	-45.85	-26.33	-83.21	10.26
	-35.96	-5.24	-27.51	-16.01	-49.92	5.52
	-11.99	-2.45	-9.17	-5.69	-16.64	0.78
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.99	-0.33	-9.17	-4.63	-16.64	3.96
	-35.96	-3.12	-27.51	-14.95	-49.92	8.70
	-59.93	-5.91	-45.85	-25.27	-83.21	13.44
	-83.91	-8.70	-64.18	-35.59	-116.49	18.18
	-107.88	-11.49	-82.52	-45.91	-149.77	22.92
	1.39	11.99	5.16	9.17	-2.37	16.64
	2.05	1.35	11.95	5.12	9.13	-2.41
-107.51		-13.27	-82.16	-46.61	-149.28	20.06
-83.62		-10.57	-63.90	-36.38	-116.11	15.24
-59.73		-7.86	-45.64	-26.14	-82.93	10.42
-35.84		-5.15	-27.39	-15.90	-49.76	5.60
-11.95		-2.44	-9.13	-5.66	-16.59	0.78
0.00		0.00	0.00	0.00	0.00	0.00
-11.95		-0.27	-9.13	-4.58	-16.59	4.04
-35.84		-2.98	-27.39	-14.81	-49.76	8.86
-59.73		-5.68	-45.64	-25.05	-82.93	13.68
-83.62		-8.39	-63.90	-35.29	-116.11	18.50
-107.51		-11.10	-82.16	-45.53	-149.28	23.32
1.35		11.95	5.12	9.13	-2.41	16.59
2.10		1.37	11.96	5.13	9.14	-2.40
	-107.62	-13.40	-82.26	-46.73	-149.41	19.92
	-83.70	-10.67	-63.98	-36.47	-116.21	15.13
	-59.79	-7.94	-45.70	-26.21	-83.01	10.33
	-35.87	-5.21	-27.42	-15.95	-49.80	5.53
	-11.96	-2.48	-9.14	-5.69	-16.60	0.73
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.96	-0.25	-9.14	-4.57	-16.60	4.07
	-35.87	-2.98	-27.42	-14.83	-49.80	8.87
	-59.79	-5.71	-45.70	-25.09	-83.01	13.67
	-83.70	-8.45	-63.98	-35.35	-116.21	18.46
	-107.62	-11.18	-82.26	-45.61	-149.41	23.26
	1.37	11.96	5.13	9.14	-2.40	16.60
	2.15	1.38	11.97	5.14	9.15	-2.39
-107.72		-13.53	-82.36	-46.84	-149.55	19.78
-83.78		-10.78	-64.06	-36.56	-116.32	15.01
-59.84		-8.02	-45.76	-26.28	-83.08	10.23

	-35.91	-5.27	-27.45	-15.99	-49.85	5.45
	-11.97	-2.52	-9.15	-5.71	-16.62	0.68
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.97	-0.24	-9.15	-4.57	-16.62	4.10
	-35.91	-2.99	-27.45	-14.85	-49.85	8.87
	-59.84	-5.74	-45.76	-25.14	-83.08	13.65
	-83.78	-8.50	-64.06	-35.42	-116.32	18.42
	-107.72	-11.25	-82.36	-45.70	-149.55	23.20
	1.38	11.97	5.14	9.15	-2.39	16.62
2.20	1.33	11.92	5.09	9.10	-2.44	16.55
	-107.27	-13.11	-81.91	-46.41	-148.95	20.19
	-83.43	-10.45	-63.71	-36.22	-115.85	15.32
	-59.59	-7.80	-45.51	-26.04	-82.75	10.44
	-35.76	-5.15	-27.30	-15.86	-49.65	5.56
	-11.92	-2.49	-9.10	-5.67	-16.55	0.69
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.92	-0.16	-9.10	-4.51	-16.55	4.19
	-35.76	-2.81	-27.30	-14.69	-49.65	9.06
	-59.59	-5.47	-45.51	-24.87	-82.75	13.94
	-83.43	-8.12	-63.71	-35.06	-115.85	18.81
	-107.27	-10.78	-81.91	-45.24	-148.95	23.69
	1.33	11.92	5.09	9.10	-2.44	16.55
2.25	1.34	11.93	5.10	9.11	-2.43	16.56
	-107.37	-13.24	-82.01	-46.52	-149.08	20.05
	-83.51	-10.56	-63.79	-36.32	-115.95	15.20
	-59.65	-7.88	-45.56	-26.11	-82.82	10.34
	-35.79	-5.21	-27.34	-15.90	-49.69	5.49
	-11.93	-2.53	-9.11	-5.70	-16.56	0.64
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.93	-0.15	-9.11	-4.51	-16.56	4.22
	-35.79	-2.82	-27.34	-14.71	-49.69	9.07
	-59.65	-5.50	-45.56	-24.92	-82.82	13.92
	-83.51	-8.17	-63.79	-35.12	-115.95	18.77
	-107.37	-10.85	-82.01	-45.33	-149.08	23.63
	1.34	11.93	5.10	9.11	-2.43	16.56
2.30	1.35	11.94	5.11	9.12	-2.42	16.58
	-107.47	-13.37	-82.12	-46.64	-149.22	19.91
	-83.59	-10.67	-63.87	-36.41	-116.06	15.08
	-59.71	-7.97	-45.62	-26.18	-82.90	10.25
	-35.82	-5.27	-27.37	-15.95	-49.74	5.42
	-11.94	-2.57	-9.12	-5.72	-16.58	0.59
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.94	-0.13	-9.12	-4.50	-16.58	4.24
	-35.82	-2.83	-27.37	-14.73	-49.74	9.07
	-59.71	-5.53	-45.62	-24.96	-82.90	13.90

	-83.59	-8.23	-63.87	-35.19	-116.06	18.73
	-107.47	-10.93	-82.12	-45.42	-149.22	23.56
	1.35	11.94	5.11	9.12	-2.42	16.58
2.35	1.36	11.95	5.13	9.14	-2.40	16.60
	-107.58	-13.50	-82.22	-46.75	-149.36	19.76
	-83.67	-10.77	-63.95	-36.50	-116.17	14.96
	-59.76	-8.05	-45.68	-26.25	-82.98	10.15
	-35.86	-5.33	-27.41	-16.00	-49.79	5.34
	-11.95	-2.61	-9.14	-5.75	-16.60	0.54
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.95	-0.12	-9.14	-4.50	-16.60	4.27
	-35.86	-2.84	-27.41	-14.75	-49.79	9.08
	-59.76	-5.56	-45.68	-25.01	-82.98	13.89
	-83.67	-8.28	-63.95	-35.26	-116.17	18.69
	-107.58	-11.00	-82.22	-45.51	-149.36	23.50
	1.36	11.95	5.13	9.14	-2.40	16.60
	2.40	1.33	11.92	5.09	9.10	-2.43
-107.29		-13.24	-81.94	-46.49	-148.98	20.01
-83.45		-10.58	-63.73	-36.30	-115.87	15.14
-59.61		-7.92	-45.52	-26.11	-82.77	10.27
-35.76		-5.26	-27.31	-15.92	-49.66	5.40
-11.92		-2.60	-9.10	-5.73	-16.55	0.53
0.00		0.00	0.00	0.00	0.00	0.00
-11.92		-0.06	-9.10	-4.46	-16.55	4.34
-35.76		-2.72	-27.31	-14.65	-49.66	9.21
-59.61		-5.38	-45.52	-24.84	-82.77	14.08
-83.45		-8.04	-63.73	-35.03	-115.87	18.95
-107.29		-10.70	-81.94	-45.21	-148.98	23.82
1.33		11.92	5.09	9.10	-2.43	16.55
2.45		1.34	11.93	5.11	9.12	-2.42
	-107.40	-13.37	-82.04	-46.60	-149.12	19.87
	-83.53	-10.69	-63.81	-36.39	-115.98	15.02
	-59.66	-8.00	-45.58	-26.18	-82.84	10.17
	-35.80	-5.32	-27.35	-15.97	-49.71	5.32
	-11.93	-2.64	-9.12	-5.75	-16.57	0.48
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.93	-0.04	-9.12	-4.46	-16.57	4.37
	-35.80	-2.72	-27.35	-14.67	-49.71	9.22
	-59.66	-5.41	-45.58	-24.88	-82.84	14.07
	-83.53	-8.09	-63.81	-35.09	-115.98	18.91
	-107.40	-10.77	-82.04	-45.30	-149.12	23.76
	1.34	11.93	5.11	9.12	-2.42	16.57
	2.50	1.35	11.94	5.12	9.13	-2.41
-107.50		-13.49	-82.14	-46.71	-149.25	19.72
-83.61		-10.79	-63.89	-36.48	-116.09	14.90

	-59.72	-8.09	-45.63	-26.25	-82.92	10.07
	-35.83	-5.38	-27.38	-16.01	-49.75	5.25
	-11.94	-2.68	-9.13	-5.78	-16.58	0.42
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.94	-0.03	-9.13	-4.45	-16.58	4.40
	-35.83	-2.73	-27.38	-14.69	-49.75	9.22
	-59.72	-5.44	-45.63	-24.92	-82.92	14.05
	-83.61	-8.14	-63.89	-35.16	-116.09	18.87
	-107.50	-10.84	-82.14	-45.39	-149.25	23.70
	1.35	11.94	5.12	9.13	-2.41	16.58
2.55	1.36	11.96	5.13	9.14	-2.40	16.60
	-107.60	-13.62	-82.24	-46.83	-149.39	19.58
	-83.69	-10.90	-63.96	-36.57	-116.19	14.78
	-59.78	-8.17	-45.69	-26.32	-82.99	9.98
	-35.87	-5.44	-27.41	-16.06	-49.80	5.18
	-11.96	-2.71	-9.14	-5.80	-16.60	0.37
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.96	-0.01	-9.14	-4.45	-16.60	4.43
	-35.87	-2.74	-27.41	-14.71	-49.80	9.23
	-59.78	-5.47	-45.69	-24.96	-82.99	14.03
	-83.69	-8.19	-63.96	-35.22	-116.19	18.84
	-107.60	-10.92	-82.24	-45.48	-149.39	23.64
	1.36	11.96	5.13	9.14	-2.40	16.60
2.60	1.37	11.97	5.14	9.15	-2.39	16.61
	-107.70	-13.75	-82.34	-46.94	-149.53	19.44
	-83.77	-11.00	-64.04	-36.66	-116.30	14.66
	-59.83	-8.25	-45.75	-26.39	-83.07	9.88
	-35.90	-5.50	-27.45	-16.11	-49.84	5.10
	-11.97	-2.75	-9.15	-5.83	-16.61	0.32
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.97	0.00	-9.15	-4.45	-16.61	4.46
	-35.90	-2.75	-27.45	-14.73	-49.84	9.24
	-59.83	-5.50	-45.75	-25.01	-83.07	14.02
	-83.77	-8.25	-64.04	-35.29	-116.30	18.80
	-107.70	-10.99	-82.34	-45.57	-149.53	23.58
	1.37	11.97	5.14	9.15	-2.39	16.61
2.65	1.39	11.98	5.15	9.16	-2.38	16.63
	-107.80	-13.88	-82.44	-47.06	-149.67	19.30
	-83.85	-11.11	-64.12	-36.76	-116.41	14.54
	-59.89	-8.33	-45.80	-26.46	-83.15	9.79
	-35.93	-5.56	-27.48	-16.15	-49.89	5.03
	-11.98	-2.79	-9.16	-5.85	-16.63	0.27
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.98	0.02	-9.16	-4.45	-16.63	4.49
	-35.93	-2.75	-27.48	-14.75	-49.89	9.24

	-59.89	-5.53	-45.80	-25.05	-83.15	14.00
	-83.85	-8.30	-64.12	-35.35	-116.41	18.76
	-107.80	-11.07	-82.44	-45.65	-149.67	23.51
	1.39	11.98	5.15	9.16	-2.38	16.63
2.70	1.40	11.99	5.16	9.17	-2.37	16.64
	-107.90	-14.01	-82.55	-47.17	-149.80	19.16
	-83.92	-11.21	-64.20	-36.85	-116.51	14.42
	-59.95	-8.42	-45.86	-26.53	-83.22	9.69
	-35.97	-5.62	-27.52	-16.20	-49.93	4.96
	-11.99	-2.83	-9.17	-5.88	-16.64	0.22
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.99	0.03	-9.17	-4.45	-16.64	4.51
	-35.97	-2.76	-27.52	-14.77	-49.93	9.25
	-59.95	-5.56	-45.86	-25.10	-83.22	13.98
	-83.92	-8.35	-64.20	-35.42	-116.51	18.72
	-107.90	-11.15	-82.55	-45.74	-149.80	23.45
	1.40	11.99	5.16	9.17	-2.37	16.64
	2.75	1.41	12.00	5.17	9.18	-2.36
-108.01		-14.14	-82.65	-47.29	-149.94	19.02
-84.00		-11.32	-64.28	-36.94	-116.62	14.30
-60.00		-8.50	-45.92	-26.60	-83.30	9.59
-36.00		-5.68	-27.55	-16.25	-49.98	4.88
-12.00		-2.87	-9.18	-5.90	-16.66	0.17
0.00		0.00	0.00	0.00	0.00	0.00
-12.00		0.05	-9.18	-4.44	-16.66	4.54
-36.00		-2.77	-27.55	-14.79	-49.98	9.25
-60.00		-5.59	-45.92	-25.14	-83.30	13.97
-84.00		-8.40	-64.28	-35.49	-116.62	18.68
-108.01		-11.22	-82.65	-45.83	-149.94	23.39
1.41		12.00	5.17	9.18	-2.36	16.66
2.80		1.42	12.01	5.19	9.19	-2.34
	-108.11	-14.27	-82.75	-47.41	-150.08	18.87
	-84.09	-11.43	-64.36	-37.04	-116.73	14.18
	-60.06	-8.59	-45.97	-26.67	-83.38	9.50
	-36.04	-5.75	-27.58	-16.30	-50.03	4.81
	-12.01	-2.90	-9.19	-5.93	-16.68	0.12
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.01	0.06	-9.19	-4.44	-16.68	4.57
	-36.04	-2.78	-27.58	-14.81	-50.03	9.26
	-60.06	-5.62	-45.97	-25.18	-83.38	13.95
	-84.09	-8.46	-64.36	-35.55	-116.73	18.64
	-108.11	-11.30	-82.75	-45.92	-150.08	23.32
	1.42	12.01	5.19	9.19	-2.34	16.68
	2.85	1.43	12.02	5.20	9.21	-2.33
-108.21		-14.40	-82.86	-47.52	-150.22	18.73

	-84.17	-11.53	-64.44	-37.13	-116.84	14.06
	-60.12	-8.67	-46.03	-26.74	-83.46	9.40
	-36.07	-5.81	-27.62	-16.34	-50.07	4.73
	-12.02	-2.94	-9.21	-5.95	-16.69	0.07
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.02	0.08	-9.21	-4.44	-16.69	4.60
	-36.07	-2.79	-27.62	-14.83	-50.07	9.26
	-60.12	-5.65	-46.03	-25.23	-83.46	13.93
	-84.17	-8.51	-64.44	-35.62	-116.84	18.60
	-108.21	-11.38	-82.86	-46.01	-150.22	23.26
	1.43	12.02	5.20	9.21	-2.33	16.69
2.90	1.44	12.04	5.21	9.22	-2.32	16.71
	-108.32	-14.53	-82.96	-47.64	-150.36	18.59
	-84.25	-11.64	-64.52	-37.22	-116.95	13.94
	-60.18	-8.75	-46.09	-26.81	-83.53	9.30
	-36.11	-5.87	-27.65	-16.39	-50.12	4.66
	-12.04	-2.98	-9.22	-5.98	-16.71	0.02
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.04	0.09	-9.22	-4.44	-16.71	4.63
	-36.11	-2.79	-27.65	-14.86	-50.12	9.27
	-60.18	-5.68	-46.09	-25.27	-83.53	13.91
	-84.25	-8.57	-64.52	-35.69	-116.95	18.55
	-108.32	-11.45	-82.96	-46.10	-150.36	23.20
	1.44	12.04	5.21	9.22	-2.32	16.71
2.95	1.45	12.05	5.22	9.23	-2.31	16.72
	-108.42	-14.66	-83.06	-47.76	-150.50	18.44
	-84.33	-11.75	-64.60	-37.32	-117.06	13.82
	-60.23	-8.84	-46.15	-26.88	-83.61	9.20
	-36.14	-5.93	-27.69	-16.44	-50.17	4.58
	-12.05	-3.02	-9.23	-6.00	-16.72	-0.04
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.05	0.11	-9.23	-4.44	-16.72	4.65
	-36.14	-2.80	-27.69	-14.88	-50.17	9.27
	-60.23	-5.71	-46.15	-25.32	-83.61	13.89
	-84.33	-8.62	-64.60	-35.76	-117.06	18.51
	-108.42	-11.53	-83.06	-46.19	-150.50	23.13
	1.45	12.05	5.22	9.23	-2.31	16.72
3.00	1.47	12.06	5.23	9.24	-2.30	16.74
	-108.52	-14.79	-83.17	-47.88	-150.64	18.30
	-84.41	-11.86	-64.69	-37.41	-117.17	13.70
	-60.29	-8.92	-46.20	-26.95	-83.69	9.11
	-36.17	-5.99	-27.72	-16.49	-50.21	4.51
	-12.06	-3.06	-9.24	-6.03	-16.74	-0.09
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.06	0.12	-9.24	-4.44	-16.74	4.68

	-36.17	-2.81	-27.72	-14.90	-50.21	9.28
	-60.29	-5.74	-46.20	-25.36	-83.69	13.88
	-84.41	-8.68	-64.69	-35.82	-117.17	18.47
	-108.52	-11.61	-83.17	-46.29	-150.64	23.07
	1.47	12.06	5.23	9.24	-2.30	16.74
	1.48	12.07	5.24	9.25	-2.29	16.75
3.05	-108.63	-14.92	-83.27	-47.99	-150.78	18.15
	-84.49	-11.96	-64.77	-37.51	-117.28	13.58
	-60.35	-9.01	-46.26	-27.02	-83.77	9.01
	-36.21	-6.05	-27.76	-16.54	-50.26	4.43
	-12.07	-3.09	-9.25	-6.05	-16.75	-0.14
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.07	0.14	-9.25	-4.43	-16.75	4.71
	-36.21	-2.82	-27.76	-14.92	-50.26	9.28
	-60.35	-5.77	-46.26	-25.41	-83.77	13.86
	-84.49	-8.73	-64.77	-35.89	-117.28	18.43
	-108.63	-11.69	-83.27	-46.38	-150.78	23.00
	1.48	12.07	5.24	9.25	-2.29	16.75
	1.49	12.08	5.25	9.26	-2.27	16.77
3.10	-108.73	-15.05	-83.38	-48.11	-150.93	18.01
	-84.57	-12.07	-64.85	-37.60	-117.39	13.46
	-60.41	-9.09	-46.32	-27.09	-83.85	8.91
	-36.24	-6.11	-27.79	-16.58	-50.31	4.36
	-12.08	-3.13	-9.26	-6.08	-16.77	-0.19
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.08	0.15	-9.26	-4.43	-16.77	4.74
	-36.24	-2.83	-27.79	-14.94	-50.31	9.29
	-60.41	-5.81	-46.32	-25.45	-83.85	13.84
	-84.57	-8.79	-64.85	-35.96	-117.39	18.39
	-108.73	-11.77	-83.38	-46.47	-150.93	22.94
	1.49	12.08	5.25	9.26	-2.27	16.77
	1.50	12.09	5.27	9.28	-2.26	16.79
3.15	-108.84	-15.18	-83.48	-48.23	-151.07	17.86
	-84.65	-12.18	-64.93	-37.70	-117.50	13.34
	-60.47	-9.18	-46.38	-27.17	-83.93	8.81
	-36.28	-6.17	-27.83	-16.63	-50.36	4.29
	-12.09	-3.17	-9.28	-6.10	-16.79	-0.24
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.09	0.17	-9.28	-4.43	-16.79	4.77
	-36.28	-2.84	-27.83	-14.96	-50.36	9.29
	-60.47	-5.84	-46.38	-25.50	-83.93	13.82
	-84.65	-8.84	-64.93	-36.03	-117.50	18.35
	-108.84	-11.84	-83.48	-46.56	-151.07	22.87
	1.50	12.09	5.27	9.28	-2.26	16.79
3.20	1.51	12.11	5.28	9.29	-2.25	16.80

	-108.95	-15.32	-83.59	-48.35	-151.21	17.72
	-84.74	-12.29	-65.01	-37.79	-117.61	13.22
	-60.53	-9.26	-46.44	-27.24	-84.01	8.71
	-36.32	-6.24	-27.86	-16.68	-50.40	4.21
	-12.11	-3.21	-9.29	-6.13	-16.80	-0.29
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.11	0.18	-9.29	-4.43	-16.80	4.80
	-36.32	-2.84	-27.86	-14.99	-50.40	9.30
	-60.53	-5.87	-46.44	-25.54	-84.01	13.80
	-84.74	-8.90	-65.01	-36.10	-117.61	18.30
	-108.95	-11.92	-83.59	-46.65	-151.21	22.81
	1.51	12.11	5.28	9.29	-2.25	16.80
	1.52	12.12	5.29	9.30	-2.24	16.82
3.25	-109.05	-15.45	-83.69	-48.47	-151.35	17.57
	-84.82	-12.40	-65.09	-37.89	-117.72	13.09
	-60.58	-9.35	-46.50	-27.31	-84.09	8.61
	-36.35	-6.30	-27.90	-16.73	-50.45	4.14
	-12.12	-3.25	-9.30	-6.15	-16.82	-0.34
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.12	0.20	-9.30	-4.43	-16.82	4.82
	-36.35	-2.85	-27.90	-15.01	-50.45	9.30
	-60.58	-5.90	-46.50	-25.59	-84.09	13.78
	-84.82	-8.95	-65.09	-36.17	-117.72	18.26
	-109.05	-12.00	-83.69	-46.75	-151.35	22.74
	1.52	12.12	5.29	9.30	-2.24	16.82
	1.54	12.13	5.30	9.31	-2.23	16.83
3.30	-109.16	-15.58	-83.80	-48.59	-151.50	17.43
	-84.90	-12.51	-65.18	-37.98	-117.83	12.97
	-60.64	-9.43	-46.56	-27.38	-84.16	8.52
	-36.39	-6.36	-27.93	-16.78	-50.50	4.06
	-12.13	-3.29	-9.31	-6.18	-16.83	-0.40
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.13	0.21	-9.31	-4.43	-16.83	4.85
	-36.39	-2.86	-27.93	-15.03	-50.50	9.31
	-60.64	-5.93	-46.56	-25.63	-84.16	13.76
	-84.90	-9.01	-65.18	-36.24	-117.83	18.22
	-109.16	-12.08	-83.80	-46.84	-151.50	22.67
	1.54	12.13	5.30	9.31	-2.23	16.83
	1.55	12.14	5.31	9.32	-2.22	16.85
3.35	-109.26	-15.71	-83.91	-48.71	-151.64	17.28
	-84.98	-12.62	-65.26	-38.08	-117.94	12.85
	-60.70	-9.52	-46.61	-27.45	-84.24	8.42
	-36.42	-6.42	-27.97	-16.83	-50.55	3.99
	-12.14	-3.32	-9.32	-6.20	-16.85	-0.45
	0.00	0.00	0.00	0.00	0.00	0.00

	-12.14	0.23	-9.32	-4.43	-16.85	4.88
	-36.42	-2.87	-27.97	-15.05	-50.55	9.31
	-60.70	-5.97	-46.61	-25.68	-84.24	13.74
	-84.98	-9.06	-65.26	-36.30	-117.94	18.18
	-109.26	-12.16	-83.91	-46.93	-151.64	22.61
	1.55	12.14	5.31	9.32	-2.22	16.85
3.40	1.56	12.15	5.33	9.33	-2.20	16.86
	-109.37	-15.85	-84.01	-48.83	-151.78	17.14
	-85.07	-12.72	-65.34	-38.18	-118.05	12.73
	-60.76	-9.60	-46.67	-27.53	-84.32	8.32
	-36.46	-6.48	-28.00	-16.88	-50.59	3.91
	-12.15	-3.36	-9.33	-6.23	-16.86	-0.50
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.15	0.24	-9.33	-4.42	-16.86	4.91
	-36.46	-2.88	-28.00	-15.07	-50.59	9.32
	-60.76	-6.00	-46.67	-25.72	-84.32	13.72
	-85.07	-9.12	-65.34	-36.37	-118.05	18.13
	-109.37	-12.24	-84.01	-47.02	-151.78	22.54
	1.56	12.15	5.33	9.33	-2.20	16.86
3.45	1.57	12.16	5.34	9.35	-2.19	16.88
	-109.48	-15.98	-84.12	-48.95	-151.93	16.99
	-85.15	-12.83	-65.43	-38.27	-118.17	12.60
	-60.82	-9.69	-46.73	-27.60	-84.40	8.22
	-36.49	-6.55	-28.04	-16.92	-50.64	3.83
	-12.16	-3.40	-9.35	-6.25	-16.88	-0.55
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.16	0.26	-9.35	-4.42	-16.88	4.94
	-36.49	-2.89	-28.04	-15.10	-50.64	9.32
	-60.82	-6.03	-46.73	-25.77	-84.40	13.70
	-85.15	-9.18	-65.43	-36.44	-118.17	18.09
	-109.48	-12.32	-84.12	-47.12	-151.93	22.47
	1.57	12.16	5.34	9.35	-2.19	16.88
3.50	1.58	12.18	5.35	9.36	-2.18	16.90
	-109.58	-16.11	-84.23	-49.07	-152.07	16.84
	-85.23	-12.94	-65.51	-38.37	-118.28	12.48
	-60.88	-9.78	-46.79	-27.67	-84.48	8.12
	-36.53	-6.61	-28.08	-16.97	-50.69	3.76
	-12.18	-3.44	-9.36	-6.28	-16.90	-0.60
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.18	0.27	-9.36	-4.42	-16.90	4.96
	-36.53	-2.90	-28.08	-15.12	-50.69	9.32
	-60.88	-6.07	-46.79	-25.82	-84.48	13.69
	-85.23	-9.23	-65.51	-36.51	-118.28	18.05
	-109.58	-12.40	-84.23	-47.21	-152.07	22.41
	1.58	12.18	5.35	9.36	-2.18	16.90

3.55	1.60	12.19	5.36	9.37	-2.17	16.91
	-109.69	-16.25	-84.33	-49.19	-152.22	16.70
	-85.31	-13.05	-65.59	-38.47	-118.39	12.36
	-60.94	-9.86	-46.85	-27.74	-84.56	8.02
	-36.56	-6.67	-28.11	-17.02	-50.74	3.68
	-12.19	-3.48	-9.37	-6.30	-16.91	-0.65
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.19	0.29	-9.37	-4.42	-16.91	4.99
	-36.56	-2.91	-28.11	-15.14	-50.74	9.33
	-60.94	-6.10	-46.85	-25.86	-84.56	13.67
	-85.31	-9.29	-65.59	-36.58	-118.39	18.00
	-109.69	-12.48	-84.33	-47.31	-152.22	22.34
	1.60	12.19	5.36	9.37	-2.17	16.91
	1.61	12.20	5.37	9.38	-2.16	16.93
3.60	-109.80	-16.38	-84.44	-49.31	-152.36	16.55
	-85.40	-13.16	-65.68	-38.56	-118.50	12.23
	-61.00	-9.95	-46.91	-27.82	-84.65	7.92
	-36.60	-6.73	-28.15	-17.07	-50.79	3.61
	-12.20	-3.52	-9.38	-6.33	-16.93	-0.71
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.20	0.30	-9.38	-4.42	-16.93	5.02
	-36.60	-2.92	-28.15	-15.16	-50.79	9.33
	-61.00	-6.13	-46.91	-25.91	-84.65	13.65
	-85.40	-9.35	-65.68	-36.65	-118.50	17.96
	-109.80	-12.56	-84.44	-47.40	-152.36	22.27
	1.61	12.20	5.37	9.38	-2.16	16.93
	1.62	12.21	5.38	9.39	-2.14	16.95
	3.65	-109.91	-16.51	-84.55	-49.43	-152.51
-85.48		-13.27	-65.76	-38.66	-118.62	12.11
-61.06		-10.03	-46.97	-27.89	-84.73	7.82
-36.64		-6.79	-28.18	-17.12	-50.84	3.53
-12.21		-3.55	-9.39	-6.35	-16.95	-0.76
0.00		0.00	0.00	0.00	0.00	0.00
-12.21		0.31	-9.39	-4.42	-16.95	5.05
-36.64		-2.93	-28.18	-15.19	-50.84	9.34
-61.06		-6.16	-46.97	-25.96	-84.73	13.63
-85.48		-9.40	-65.76	-36.72	-118.62	17.92
-109.91		-12.64	-84.55	-47.49	-152.51	22.20
1.62		12.21	5.38	9.39	-2.14	16.95
1.63		12.22	5.40	9.41	-2.13	16.96
3.70		-110.01	-16.65	-84.66	-49.55	-152.65
	-85.57	-13.38	-65.84	-38.76	-118.73	11.99
	-61.12	-10.12	-47.03	-27.96	-84.81	7.72
	-36.67	-6.86	-28.22	-17.17	-50.88	3.46
	-12.22	-3.59	-9.41	-6.38	-16.96	-0.81

	0.00	0.00	0.00	0.00	0.00	0.00
	-12.22	0.33	-9.41	-4.42	-16.96	5.07
	-36.67	-2.93	-28.22	-15.21	-50.88	9.34
	-61.12	-6.20	-47.03	-26.00	-84.81	13.61
	-85.57	-9.46	-65.84	-36.80	-118.73	17.87
	-110.01	-12.73	-84.66	-47.59	-152.65	22.14
	1.63	12.22	5.40	9.41	-2.13	16.96
3.75	1.64	12.24	5.41	9.42	-2.12	16.98
	-110.12	-16.78	-84.76	-49.67	-152.80	16.11
	-85.65	-13.49	-65.93	-38.85	-118.84	11.86
	-61.18	-10.21	-47.09	-28.04	-84.89	7.62
	-36.71	-6.92	-28.25	-17.22	-50.93	3.38
	-12.24	-3.63	-9.42	-6.40	-16.98	-0.86
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.24	0.34	-9.42	-4.41	-16.98	5.10
	-36.71	-2.94	-28.25	-15.23	-50.93	9.34
	-61.18	-6.23	-47.09	-26.05	-84.89	13.59
	-85.65	-9.52	-65.93	-36.87	-118.84	17.83
	-110.12	-12.81	-84.76	-47.68	-152.80	22.07
	1.64	12.24	5.41	9.42	-2.12	16.98
3.80	1.66	12.25	5.42	9.43	-2.11	16.99
	-110.23	-16.92	-84.87	-49.79	-152.94	15.96
	-85.73	-13.61	-66.01	-38.95	-118.96	11.74
	-61.24	-10.29	-47.15	-28.11	-84.97	7.52
	-36.74	-6.98	-28.29	-17.27	-50.98	3.31
	-12.25	-3.67	-9.43	-6.43	-16.99	-0.91
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.25	0.36	-9.43	-4.41	-16.99	5.13
	-36.74	-2.95	-28.29	-15.25	-50.98	9.35
	-61.24	-6.27	-47.15	-26.10	-84.97	13.56
	-85.73	-9.58	-66.01	-36.94	-118.96	17.78
	-110.23	-12.89	-84.87	-47.78	-152.94	22.00
	1.66	12.25	5.42	9.43	-2.11	16.99
3.85	1.67	12.26	5.43	9.44	-2.10	17.01
	-110.34	-17.05	-84.98	-49.91	-153.09	15.81
	-85.82	-13.72	-66.10	-39.05	-119.07	11.62
	-61.30	-10.38	-47.21	-28.18	-85.05	7.42
	-36.78	-7.04	-28.33	-17.32	-51.03	3.23
	-12.26	-3.71	-9.44	-6.45	-17.01	-0.96
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.26	0.37	-9.44	-4.41	-17.01	5.16
	-36.78	-2.96	-28.33	-15.28	-51.03	9.35
	-61.30	-6.30	-47.21	-26.14	-85.05	13.54
	-85.82	-9.63	-66.10	-37.01	-119.07	17.74
	-110.34	-12.97	-84.98	-47.87	-153.09	21.93

	1.67	12.26	5.43	9.44	-2.10	17.01
3.90	1.68	12.27	5.44	9.45	-2.08	17.03
	-110.45	-17.19	-85.09	-50.03	-153.24	15.66
	-85.90	-13.83	-66.18	-39.15	-119.18	11.49
	-61.36	-10.47	-47.27	-28.26	-85.13	7.32
	-36.82	-7.11	-28.36	-17.37	-51.08	3.15
	-12.27	-3.75	-9.45	-6.48	-17.03	-1.02
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.27	0.39	-9.45	-4.41	-17.03	5.19
	-36.82	-2.97	-28.36	-15.30	-51.08	9.35
	-61.36	-6.33	-47.27	-26.19	-85.13	13.52
	-85.90	-9.69	-66.18	-37.08	-119.18	17.69
	-110.45	-13.05	-85.09	-47.97	-153.24	21.86
	1.68	12.27	5.44	9.45	-2.08	17.03
3.95	1.69	12.28	5.46	9.47	-2.07	17.04
	-110.55	-17.32	-85.20	-50.16	-153.38	15.51
	-85.99	-13.94	-66.26	-39.24	-119.30	11.37
	-61.42	-10.55	-47.33	-28.33	-85.21	7.22
	-36.85	-7.17	-28.40	-17.42	-51.13	3.08
	-12.28	-3.79	-9.47	-6.50	-17.04	-1.07
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.28	0.40	-9.47	-4.41	-17.04	5.21
	-36.85	-2.98	-28.40	-15.32	-51.13	9.36
	-61.42	-6.37	-47.33	-26.24	-85.21	13.50
	-85.99	-9.75	-66.26	-37.15	-119.30	17.65
	-110.55	-13.13	-85.20	-48.06	-153.38	21.79
	1.69	12.28	5.46	9.47	-2.07	17.04
4.00	1.70	12.30	5.47	9.48	-2.06	17.06
	-110.66	-17.46	-85.31	-50.28	-153.53	15.36
	-86.07	-14.05	-66.35	-39.34	-119.41	11.24
	-61.48	-10.64	-47.39	-28.40	-85.29	7.12
	-36.89	-7.23	-28.44	-17.47	-51.18	3.00
	-12.30	-3.82	-9.48	-6.53	-17.06	-1.12
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.30	0.42	-9.48	-4.41	-17.06	5.24
	-36.89	-2.99	-28.44	-15.35	-51.18	9.36
	-61.48	-6.40	-47.39	-26.28	-85.29	13.48
	-86.07	-9.81	-66.35	-37.22	-119.41	17.60
	-110.66	-13.22	-85.31	-48.16	-153.53	21.72
	1.70	12.30	5.47	9.48	-2.06	17.06
4.05	1.72	12.31	5.48	9.49	-2.05	17.08
	-110.77	-17.59	-85.41	-50.40	-153.68	15.22
	-86.16	-14.16	-66.43	-39.44	-119.53	11.12
	-61.54	-10.73	-47.45	-28.48	-85.38	7.02
	-36.92	-7.30	-28.47	-17.52	-51.23	2.93

	-12.31	-3.86	-9.49	-6.55	-17.08	-1.17
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.31	0.43	-9.49	-4.41	-17.08	5.27
	-36.92	-3.00	-28.47	-15.37	-51.23	9.37
	-61.54	-6.43	-47.45	-26.33	-85.38	13.46
	-86.16	-9.87	-66.43	-37.29	-119.53	17.56
	-110.77	-13.30	-85.41	-48.25	-153.68	21.66
	1.72	12.31	5.48	9.49	-2.05	17.08
	1.73	12.32	5.49	9.50	-2.04	17.09
	-110.88	-17.73	-85.52	-50.52	-153.82	15.07
	-86.24	-14.27	-66.52	-39.54	-119.64	10.99
	-61.60	-10.81	-47.51	-28.55	-85.46	6.92
	-36.96	-7.36	-28.51	-17.57	-51.27	2.85
	-12.32	-3.90	-9.50	-6.58	-17.09	-1.22
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.32	0.44	-9.50	-4.41	-17.09	5.30
	-36.96	-3.01	-28.51	-15.39	-51.27	9.37
	-61.60	-6.47	-47.51	-26.38	-85.46	13.44
	-86.24	-9.93	-66.52	-37.36	-119.64	17.51
	-110.88	-13.38	-85.52	-48.35	-153.82	21.59
	1.73	12.32	5.49	9.50	-2.04	17.09
	1.74	12.33	5.51	9.51	-2.02	17.11
	-110.99	-17.86	-85.63	-50.65	-153.97	14.92
	-86.33	-14.38	-66.60	-39.64	-119.76	10.87
	-61.66	-10.90	-47.57	-28.63	-85.54	6.82
	-37.00	-7.42	-28.54	-17.62	-51.32	2.77
	-12.33	-3.94	-9.51	-6.60	-17.11	-1.28
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.33	0.46	-9.51	-4.41	-17.11	5.32
	-37.00	-3.02	-28.54	-15.42	-51.32	9.37
	-61.66	-6.50	-47.57	-26.43	-85.54	13.42
	-86.33	-9.98	-66.60	-37.44	-119.76	17.47
	-110.99	-13.46	-85.63	-48.45	-153.97	21.52
	1.74	12.33	5.51	9.51	-2.02	17.11
	1.75	12.34	5.52	9.53	-2.01	17.12
	-111.10	-18.00	-85.74	-50.77	-154.12	14.77
	-86.41	-14.49	-66.69	-39.73	-119.87	10.74
	-61.72	-10.99	-47.63	-28.70	-85.62	6.72
	-37.03	-7.48	-28.58	-17.66	-51.37	2.70
	-12.34	-3.98	-9.53	-6.63	-17.12	-1.33
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.34	0.47	-9.53	-4.40	-17.12	5.35
	-37.03	-3.03	-28.58	-15.44	-51.37	9.37
	-61.72	-6.54	-47.63	-26.47	-85.62	13.40
	-86.41	-10.04	-66.69	-37.51	-119.87	17.42

	-111.10	-13.55	-85.74	-48.54	-154.12	21.45
	1.75	12.34	5.52	9.53	-2.01	17.12
4.25	1.76	12.36	5.53	9.54	-2.00	17.14
	-111.21	-18.14	-85.85	-50.89	-154.27	14.62
	-86.50	-14.61	-66.77	-39.83	-119.99	10.62
	-61.78	-11.08	-47.70	-28.77	-85.70	6.62
	-37.07	-7.55	-28.62	-17.71	-51.42	2.62
	-12.36	-4.02	-9.54	-6.66	-17.14	-1.38
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.36	0.49	-9.54	-4.40	-17.14	5.38
	-37.07	-3.04	-28.62	-15.46	-51.42	9.38
	-61.78	-6.57	-47.70	-26.52	-85.70	13.38
	-86.50	-10.10	-66.77	-37.58	-119.99	17.38
	-111.21	-13.63	-85.85	-48.64	-154.27	21.38
	1.76	12.36	5.53	9.54	-2.00	17.14
	4.30	1.78	12.37	5.54	9.55	-1.99
-111.32		-18.27	-85.96	-51.01	-154.42	14.47
-86.58		-14.72	-66.86	-39.93	-120.10	10.49
-61.84		-11.16	-47.76	-28.85	-85.79	6.52
-37.11		-7.61	-28.65	-17.76	-51.47	2.54
-12.37		-4.06	-9.55	-6.68	-17.16	-1.43
0.00		0.00	0.00	0.00	0.00	0.00
-12.37		0.50	-9.55	-4.40	-17.16	5.41
-37.11		-3.05	-28.65	-15.49	-51.47	9.38
-61.84		-6.61	-47.76	-26.57	-85.79	13.36
-86.58		-10.16	-66.86	-37.65	-120.10	17.33
-111.32		-13.71	-85.96	-48.74	-154.42	21.31
1.78		12.37	5.54	9.55	-1.99	17.16
4.35		1.79	12.38	5.55	9.56	-1.98
	-111.43	-18.41	-86.07	-51.14	-154.56	14.32
	-86.67	-14.83	-66.94	-40.03	-120.22	10.37
	-61.91	-11.25	-47.82	-28.92	-85.87	6.42
	-37.14	-7.67	-28.69	-17.81	-51.52	2.47
	-12.38	-4.09	-9.56	-6.71	-17.17	-1.48
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.38	0.52	-9.56	-4.40	-17.17	5.43
	-37.14	-3.06	-28.69	-15.51	-51.52	9.38
	-61.91	-6.64	-47.82	-26.62	-85.87	13.34
	-86.67	-10.22	-66.94	-37.72	-120.22	17.29
	-111.43	-13.80	-86.07	-48.83	-154.56	21.24
	1.79	12.38	5.55	9.56	-1.98	17.17
	4.40	1.80	12.39	5.57	9.58	-1.96
-111.54		-18.55	-86.18	-51.26	-154.71	14.17
-86.75		-14.94	-67.03	-40.13	-120.33	10.24
-61.97		-11.34	-47.88	-29.00	-85.95	6.32

	-37.18	-7.74	-28.73	-17.86	-51.57	2.39
	-12.39	-4.13	-9.58	-6.73	-17.19	-1.53
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.39	0.53	-9.58	-4.40	-17.19	5.46
	-37.18	-3.07	-28.73	-15.53	-51.57	9.39
	-61.97	-6.68	-47.88	-26.66	-85.95	13.31
	-86.75	-10.28	-67.03	-37.80	-120.33	17.24
	-111.54	-13.88	-86.18	-48.93	-154.71	21.17
	1.80	12.39	5.57	9.58	-1.96	17.19
4.45	1.81	12.41	5.58	9.59	-1.95	17.21
	-111.65	-18.68	-86.29	-51.38	-154.86	14.02
	-86.84	-15.05	-67.12	-40.23	-120.45	10.12
	-62.03	-11.43	-47.94	-29.07	-86.03	6.22
	-37.22	-7.80	-28.76	-17.91	-51.62	2.32
	-12.41	-4.17	-9.59	-6.76	-17.21	-1.59
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.41	0.54	-9.59	-4.40	-17.21	5.49
	-37.22	-3.08	-28.76	-15.56	-51.62	9.39
	-62.03	-6.71	-47.94	-26.71	-86.03	13.29
	-86.84	-10.34	-67.12	-37.87	-120.45	17.19
	-111.65	-13.96	-86.29	-49.03	-154.86	21.10
	1.81	12.41	5.58	9.59	-1.95	17.21
4.50	1.83	12.42	5.59	9.60	-1.94	17.22
	-111.76	-18.82	-86.40	-51.51	-155.01	13.87
	-86.92	-15.17	-67.20	-40.33	-120.56	9.99
	-62.09	-11.51	-48.00	-29.15	-86.12	6.12
	-37.25	-7.86	-28.80	-17.96	-51.67	2.24
	-12.42	-4.21	-9.60	-6.78	-17.22	-1.64
	0.00	0.00	0.00	0.00	0.00	0.00
	-12.42	0.56	-9.60	-4.40	-17.22	5.52
	-37.25	-3.09	-28.80	-15.58	-51.67	9.39
	-62.09	-6.74	-48.00	-26.76	-86.12	13.27
	-86.92	-10.40	-67.20	-37.94	-120.56	17.15
	-111.76	-14.05	-86.40	-49.12	-155.01	21.03
	1.83	12.42	5.59	9.60	-1.94	17.22

En la Tabla 12 Tabla 10 se muestran las combinaciones de esfuerzos para las diagonales en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 12. Combinación de esfuerzos de las diagonales - 12 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Mín (KN)	Máx(KN)	Mín (KN)	Máx(KN)	Mín (KN)	Máx(KN)
0.50	150.23	743.55	360.92	585.36	-60.46	1029.58

	123.16	608.36	295.42	478.93	-49.10	842.39
	96.09	473.17	229.92	372.50	-37.73	655.19
	69.02	337.98	164.42	266.07	-26.37	467.99
	41.96	202.79	98.92	159.64	-15.01	280.80
	14.89	67.60	33.43	53.21	-3.65	93.60
	11.77	65.33	31.00	51.43	-7.45	90.47
	37.94	196.00	94.31	154.30	-18.43	271.40
	64.10	326.66	157.61	257.17	-29.41	452.33
	90.26	457.33	220.92	360.03	-40.39	633.26
	116.43	588.00	284.22	462.90	-51.37	814.19
	142.59	718.66	347.53	565.77	-62.35	995.12
	133.09	675.40	325.65	530.78	-59.46	935.37
	109.14	552.60	266.56	434.28	-48.28	765.30
	85.19	429.80	207.48	337.77	-37.10	595.24
	61.24	307.00	148.39	241.26	-25.92	425.17
	37.29	184.20	89.31	144.76	-14.73	255.10
	13.34	61.40	30.22	48.25	-3.55	85.03
	10.23	59.16	27.81	46.49	-7.35	81.93
	33.31	177.48	84.74	139.48	-18.13	245.80
	56.38	295.81	141.67	232.47	-28.90	409.67
	79.46	414.13	198.60	325.45	-39.68	573.53
	102.54	532.45	255.53	418.44	-50.45	737.40
	125.62	650.78	312.46	511.43	-61.23	901.27
	112.53	612.50	290.04	479.14	-64.98	848.62
	92.32	501.14	237.43	392.02	-52.79	694.33
	72.11	389.77	184.82	304.91	-40.60	540.03
	51.90	278.41	132.21	217.79	-28.42	385.74
	31.68	167.05	79.60	130.67	-16.23	231.44
	11.47	55.68	26.99	43.56	-4.04	77.15
	8.39	53.49	24.61	41.84	-7.83	74.11
	27.81	160.47	75.15	125.53	-19.53	222.33
	47.22	267.45	125.69	209.22	-31.24	370.55
	66.64	374.43	176.23	292.91	-42.95	518.77
	86.06	481.41	226.77	376.59	-54.66	667.00
	105.47	588.39	277.31	460.28	-66.36	815.22
	99.35	563.65	264.18	439.78	-65.48	781.13
	81.54	461.17	216.27	359.82	-53.20	639.11
	63.72	358.69	168.36	279.86	-40.92	497.08
	45.91	256.21	120.46	199.90	-28.64	355.06
	28.10	153.72	72.55	119.94	-16.36	213.04
	10.28	51.24	24.64	39.98	-4.07	71.01
	7.21	49.08	22.28	38.29	-7.86	68.02
	24.27	147.24	68.17	114.88	-19.62	204.05
	41.34	245.40	114.06	191.47	-31.38	340.09
	58.40	343.56	159.95	268.06	-43.15	476.12

	75.46	441.72	205.83	344.65	-54.91	612.15
	92.52	539.88	251.72	421.23	-66.67	748.19
0.70	85.94	519.81	239.95	404.03	-68.07	720.62
	70.57	425.30	196.45	330.57	-55.32	589.60
	55.19	330.79	152.95	257.11	-42.56	458.58
	39.82	236.28	109.45	183.65	-29.81	327.56
	24.45	141.77	65.95	110.19	-17.05	196.53
	9.07	47.26	22.44	36.73	-4.30	65.51
	6.02	45.13	20.11	35.08	-8.08	62.57
	20.70	135.40	61.66	105.24	-20.26	187.71
	35.39	225.67	103.21	175.41	-32.44	312.85
	50.07	315.94	144.76	245.57	-44.62	437.99
	64.75	406.21	186.31	315.73	-56.80	563.13
	79.44	496.48	227.86	385.89	-68.99	688.28
	0.75	76.33	483.95	221.01	375.15	-68.35
62.71		395.96	180.95	306.94	-55.54	549.06
49.08		307.97	140.90	238.73	-42.73	427.05
35.46		219.98	100.84	170.52	-29.93	305.04
21.83		131.99	60.78	102.31	-17.12	183.02
8.21		44.00	20.73	34.10	-4.31	61.01
5.16		41.91	18.41	32.48	-8.09	58.11
18.14		125.72	56.57	97.45	-20.29	174.33
31.11		209.53	94.72	162.42	-32.49	290.54
44.09		293.34	132.87	227.39	-44.69	406.76
57.07		377.15	171.03	292.36	-56.89	522.98
70.05		460.96	209.18	357.33	-69.09	639.20
0.80		67.43	452.21	203.99	349.48	-69.13
	55.42	369.99	167.03	285.94	-56.18	513.19
	43.42	287.77	130.06	222.39	-43.23	399.14
	31.42	205.55	93.10	158.85	-30.27	285.10
	19.41	123.33	56.14	95.31	-17.32	171.06
	7.41	41.11	19.18	31.77	-4.37	57.02
	4.37	39.05	16.89	30.18	-8.15	54.17
	15.77	117.16	52.00	90.54	-20.46	162.50
	27.17	195.27	87.11	150.91	-32.76	270.84
	38.58	273.37	122.22	211.27	-45.07	379.18
	49.98	351.48	157.33	271.63	-57.37	487.51
	61.38	429.58	192.45	331.99	-69.68	595.85
	0.85	61.92	426.65	191.35	329.25	-67.51
50.92		349.08	156.69	269.39	-54.85	484.25
39.92		271.50	122.03	209.52	-42.19	376.64
28.92		193.93	87.36	149.66	-29.53	269.03
17.92		116.36	52.70	89.80	-16.87	161.42
6.92		38.79	18.04	29.93	-4.21	53.81
3.87		36.75	15.75	28.36	-8.01	50.98

	14.29	110.26	48.60	85.09	-20.01	152.95
	24.72	183.76	81.44	141.81	-32.00	254.92
	35.14	257.26	114.29	198.54	-44.00	356.88
	45.57	330.77	147.13	255.26	-56.00	458.85
	55.99	404.27	179.98	311.98	-67.99	560.82
	56.93	403.93	180.06	311.25	-66.20	560.42
0.90	46.84	330.49	147.45	254.66	-53.78	458.52
	36.74	257.05	114.84	198.07	-41.35	356.63
	26.65	183.61	82.23	141.48	-28.93	254.74
	16.56	110.16	49.62	84.89	-16.50	152.84
	6.47	36.72	17.02	28.30	-4.07	50.95
	3.42	34.71	14.74	26.75	-7.90	48.16
	12.96	104.13	45.56	80.24	-19.64	144.47
	22.50	173.55	76.38	133.73	-31.39	240.79
	32.04	242.97	107.20	187.22	-43.13	337.10
	41.57	312.39	138.03	240.71	-54.88	433.42
	51.11	381.81	168.85	294.20	-66.62	529.73
	0.95	53.13	384.38	170.66	295.88	-64.39
43.74		314.49	139.76	242.08	-52.29	436.37
34.34		244.60	108.86	188.29	-40.19	339.40
24.94		174.72	77.96	134.49	-28.09	242.43
15.54		104.83	47.07	80.69	-15.99	145.46
6.14		34.94	16.17	26.90	-3.89	48.49
3.08		32.95	13.89	25.37	-7.74	45.72
11.94		98.86	43.03	76.10	-19.15	137.17
20.80		164.76	72.17	126.83	-30.56	228.61
29.67		230.67	101.31	177.56	-41.97	320.06
38.53		296.57	130.44	228.29	-53.38	411.51
47.40		362.48	159.58	279.02	-64.79	502.95
1.00	46.02	363.16	158.53	278.41	-66.49	504.08
	37.92	297.13	129.84	227.79	-54.01	412.43
	29.81	231.10	101.15	177.17	-41.52	320.78
	21.71	165.07	72.46	126.55	-29.04	229.13
	13.61	99.04	43.76	75.93	-16.55	137.48
	5.50	33.01	15.07	25.31	-4.07	45.83
	2.45	31.06	12.82	23.82	-7.92	43.12
	10.07	93.19	39.81	71.45	-19.67	129.36
	17.70	155.32	66.81	119.08	-31.41	215.59
	25.32	217.45	93.81	166.71	-43.16	301.83
	32.95	279.58	120.81	214.34	-54.91	388.07
	40.58	341.71	147.80	261.97	-66.65	474.30
1.05	44.56	349.02	152.56	267.64	-63.45	484.44
	36.72	285.56	124.96	218.98	-51.51	396.36
	28.89	222.10	97.35	170.32	-39.58	308.28
	21.05	158.64	69.74	121.65	-27.64	220.20

	13.21	95.19	42.14	72.99	-15.71	132.12
	5.38	31.73	14.53	24.33	-3.78	44.04
	2.31	29.79	12.27	22.84	-7.66	41.35
	9.66	89.37	38.19	68.53	-18.87	124.05
	17.02	148.95	64.11	114.22	-30.07	206.75
	24.38	208.54	90.03	159.91	-41.28	289.45
	31.73	268.12	115.95	205.60	-52.48	372.15
	39.09	327.70	141.87	251.29	-63.69	454.85
1.10	43.25	336.26	147.18	257.92	-60.68	466.72
	35.65	275.12	120.55	211.03	-49.25	381.86
	28.06	213.98	93.93	164.13	-37.81	297.00
	20.46	152.84	67.30	117.24	-26.38	212.14
	12.87	91.71	40.68	70.34	-14.94	127.29
	5.27	30.57	14.05	23.45	-3.51	42.43
	2.18	28.64	11.78	21.97	-7.43	39.76
	9.29	85.93	36.73	65.91	-18.14	119.27
	16.41	143.22	61.68	109.85	-28.86	198.78
	23.53	200.50	86.63	153.79	-39.57	278.29
	30.64	257.79	111.58	197.73	-50.29	357.81
	37.76	315.08	136.53	241.68	-61.00	437.32
1.15	42.07	324.69	142.31	249.12	-58.17	450.66
	34.69	265.66	116.57	203.82	-47.19	368.72
	27.31	206.62	90.83	158.53	-36.20	286.78
	19.93	147.59	65.09	113.24	-25.22	204.84
	12.55	88.55	39.35	67.94	-14.24	122.91
	5.18	29.52	13.61	22.65	-3.26	40.97
	2.06	27.61	11.34	21.18	-7.22	38.31
	8.96	82.82	35.41	63.54	-17.49	114.94
	15.86	138.03	59.48	105.90	-27.76	191.57
	22.76	193.24	83.56	148.26	-38.03	268.20
	29.66	248.45	107.63	190.62	-48.30	344.83
	36.56	303.66	131.70	232.98	-58.57	421.46
1.20	39.02	312.18	135.89	239.12	-57.86	433.36
	32.20	255.42	111.32	195.64	-46.93	354.57
	25.37	198.66	86.75	152.17	-36.00	275.77
	18.55	141.90	62.18	108.69	-25.07	196.98
	11.73	85.14	37.61	65.21	-14.14	118.19
	4.91	28.38	13.04	21.74	-3.22	39.40
	1.78	26.49	10.77	20.29	-7.20	36.78
	8.15	79.48	33.71	60.88	-17.40	110.33
	14.52	132.47	56.64	101.46	-27.60	183.88
	20.89	185.45	79.58	142.05	-37.81	257.44
	27.26	238.44	102.52	182.63	-48.01	330.99
	33.62	291.43	125.46	223.22	-58.21	404.54
1.25	38.12	302.65	131.92	231.88	-55.68	420.11

	31.47	247.62	108.08	189.72	-45.14	343.73
	24.81	192.59	84.23	147.56	-34.61	267.35
	18.15	137.57	60.38	105.40	-24.07	190.96
	11.50	82.54	36.53	63.24	-13.54	114.58
	4.84	27.51	12.68	21.08	-3.00	38.19
	1.69	25.64	10.41	19.64	-7.02	35.59
	7.89	76.92	32.63	58.93	-16.84	106.77
	14.10	128.20	54.86	98.22	-26.66	177.96
	20.30	179.48	77.08	137.51	-36.48	249.14
	26.50	230.76	99.31	176.80	-46.30	320.32
	32.71	282.04	121.53	216.09	-56.12	391.51
1.30	36.38	292.99	127.37	224.33	-54.60	406.74
	30.05	239.72	104.35	183.54	-44.26	332.78
	23.71	186.45	81.33	142.75	-33.91	258.83
	17.37	133.18	58.31	101.97	-23.57	184.88
	11.03	79.91	35.29	61.18	-13.23	110.93
	4.70	26.64	12.27	20.39	-2.88	36.98
	1.53	24.78	10.00	18.97	-6.94	34.40
	7.42	74.35	31.42	56.92	-16.57	103.21
	13.32	123.91	52.83	94.87	-26.19	172.01
	19.22	173.47	74.25	132.82	-35.81	240.82
	25.11	223.04	95.67	170.77	-45.44	309.62
	31.01	272.60	117.08	208.71	-55.06	378.43
1.35	35.67	285.00	124.07	218.27	-52.73	395.63
	29.47	233.18	101.65	178.58	-42.72	323.70
	23.26	181.36	79.23	138.90	-32.71	251.77
	17.05	129.55	56.81	99.21	-22.71	179.83
	10.85	77.73	34.40	59.53	-12.70	107.90
	4.64	25.91	11.98	19.84	-2.69	35.97
	1.45	24.07	9.70	18.43	-6.79	33.41
	7.22	72.21	30.52	55.30	-16.09	100.24
	12.98	120.35	51.35	92.17	-25.39	167.06
	18.75	168.48	72.17	129.03	-34.68	233.89
	24.51	216.62	93.00	165.90	-43.98	300.71
	30.28	264.76	113.83	202.77	-53.28	367.54
1.40	33.33	275.95	119.34	211.00	-52.68	383.12
	27.55	225.78	97.78	172.63	-42.68	313.46
	21.77	175.60	76.23	134.27	-32.68	243.80
	16.00	125.43	54.67	95.91	-22.67	174.15
	10.22	75.26	33.11	57.54	-12.67	104.49
	4.44	25.09	11.56	19.18	-2.67	34.83
	1.24	23.27	9.28	17.79	-6.80	32.31
	6.60	69.82	29.27	53.38	-16.08	96.93
	11.96	116.36	49.27	88.97	-25.36	161.55
	17.31	162.90	69.27	124.56	-34.64	226.17

	22.67	209.45	89.27	160.15	-43.92	290.79
	28.03	255.99	109.26	195.73	-53.20	355.41
1.45	31.90	268.32	115.71	205.02	-51.90	372.56
	26.39	219.54	94.81	167.74	-42.03	304.82
	20.87	170.75	73.92	130.47	-32.17	237.08
	15.36	121.97	53.02	93.19	-22.31	169.35
	9.84	73.18	32.13	55.91	-12.44	101.61
	4.33	24.39	11.23	18.64	-2.58	33.87
	1.10	22.60	8.95	17.27	-6.75	31.38
	6.21	67.80	28.31	51.80	-15.89	94.13
	11.32	112.99	47.67	86.33	-25.03	156.89
	16.43	158.19	67.03	120.87	-34.17	219.64
	21.54	203.39	86.38	155.40	-43.31	282.40
	26.65	248.59	105.74	189.94	-52.44	345.15
	1.50	31.42	262.10	113.18	200.32	-50.34
26.00		214.45	92.75	163.90	-40.75	297.74
20.57		166.79	72.31	127.47	-31.17	231.58
15.15		119.14	51.88	91.05	-21.58	165.41
9.72		71.48	31.44	54.63	-12.00	99.25
4.30		23.83	11.01	18.21	-2.41	33.08
1.04		22.05	8.72	16.85	-6.63	30.61
6.06		66.14	27.63	50.55	-15.50	91.83
11.08		110.24	46.54	84.25	-24.37	153.06
16.10		154.33	65.45	117.95	-33.24	214.28
21.12		198.42	84.35	151.65	-42.11	275.50
26.14		242.52	103.26	185.35	-50.98	336.72
1.55		30.99	256.33	110.85	195.96	-48.88
	25.64	209.73	90.84	160.33	-39.55	291.18
	20.30	163.12	70.83	124.70	-30.23	226.47
	14.96	116.51	50.82	89.07	-20.91	161.77
	9.61	69.91	30.81	53.44	-11.58	97.06
	4.27	23.30	10.80	17.81	-2.26	32.35
	0.99	21.54	8.51	16.46	-6.53	29.90
	5.93	64.61	27.00	49.39	-15.14	89.71
	10.87	107.69	45.49	82.32	-23.76	149.51
	15.80	150.76	63.99	115.25	-32.38	209.32
	20.74	193.84	82.48	148.18	-40.99	269.12
	25.68	236.91	100.97	181.11	-49.61	328.92
	1.60	30.46	250.85	108.56	191.79	-47.64
25.22		205.24	88.97	156.92	-38.53	284.95
19.97		159.63	69.38	122.05	-29.43	221.63
14.73		114.02	49.79	87.18	-20.33	158.30
9.48		68.41	30.19	52.31	-11.23	94.98
4.24		22.80	10.60	17.44	-2.13	31.66
0.93		21.05	8.30	16.10	-6.44	29.23

	5.77	63.16	26.39	48.29	-14.84	87.69
	10.61	105.27	44.47	80.49	-23.25	146.16
	15.46	147.38	62.56	112.68	-31.65	204.62
	20.30	189.49	80.65	144.88	-40.05	263.08
	25.14	231.59	98.74	177.07	-48.46	321.54
	30.10	245.86	106.56	188.04	-46.35	341.34
1.65	24.93	201.16	87.33	153.85	-37.48	279.28
	19.75	156.46	68.10	119.66	-28.60	217.22
	14.57	111.76	48.88	85.47	-19.73	155.16
	9.40	67.05	29.65	51.28	-10.86	93.09
	4.22	22.35	10.43	17.09	-1.99	31.03
	0.88	20.62	8.11	15.77	-6.35	28.62
	5.66	61.85	25.85	47.30	-14.53	85.87
	10.43	103.08	43.58	78.83	-22.72	143.11
	15.21	144.31	61.31	110.37	-30.90	200.35
	19.98	185.54	79.04	141.90	-39.08	257.60
	24.76	226.77	96.78	173.44	-47.27	314.84
	29.78	241.22	104.69	184.54	-45.14	334.89
1.70	24.66	197.36	85.81	150.98	-36.48	274.00
	19.55	153.50	66.92	117.43	-27.82	213.11
	14.43	109.65	48.04	83.88	-19.17	152.22
	9.32	65.79	29.15	50.33	-10.51	91.33
	4.21	21.93	10.27	16.78	-1.86	30.44
	0.84	20.21	7.94	15.46	-6.27	28.06
	5.55	60.63	25.35	46.38	-14.24	84.17
	10.26	101.04	42.75	77.30	-22.22	140.28
	14.98	141.46	60.15	108.22	-30.20	196.39
	19.69	181.88	77.56	139.14	-38.17	252.50
	24.40	222.29	94.96	170.06	-46.15	308.61
	28.08	235.48	101.56	179.87	-45.40	326.97
1.75	23.28	192.67	83.24	147.17	-36.69	267.52
	18.47	149.85	64.93	114.46	-27.98	208.07
	13.67	107.04	46.62	81.76	-19.27	148.62
	8.87	64.22	28.30	49.06	-10.57	89.17
	4.07	21.41	9.99	16.35	-1.86	29.72
	0.68	19.71	7.67	15.06	-6.31	27.37
	5.10	59.14	24.53	45.17	-14.33	82.11
	9.52	98.56	41.39	75.28	-22.34	136.85
	13.95	137.98	58.25	105.40	-30.36	191.59
	18.37	177.41	75.12	135.51	-38.38	246.33
	22.79	216.83	91.98	165.62	-46.40	301.07
	27.84	231.46	99.97	176.84	-44.29	321.37
1.80	23.08	189.37	81.94	144.69	-35.78	262.94
	18.33	147.29	63.92	112.54	-27.27	204.51
	13.57	105.21	45.90	80.38	-18.76	146.08

	8.81	63.12	27.87	48.23	-10.25	87.65
	4.06	21.04	9.85	16.08	-1.73	29.22
	0.64	19.36	7.52	14.79	-6.24	26.88
	5.02	58.08	24.10	44.38	-14.07	80.64
	9.39	96.80	40.68	73.96	-21.90	134.41
	13.77	135.52	57.27	103.55	-29.73	188.17
	18.14	174.24	73.85	133.13	-37.56	241.93
	22.52	212.96	90.43	162.72	-45.39	295.69
1.85	27.62	227.69	98.48	174.01	-43.25	316.13
	22.90	186.29	80.73	142.38	-34.92	258.65
	18.19	144.89	62.98	110.74	-26.60	201.17
	13.48	103.49	45.23	79.10	-18.27	143.69
	8.77	62.10	27.48	47.46	-9.94	86.22
	4.05	20.70	9.72	15.82	-1.62	28.74
	0.61	19.03	7.38	14.55	-6.17	26.43
	4.94	57.10	23.70	43.64	-13.83	79.28
	9.27	95.16	40.03	72.73	-21.48	132.13
	13.60	133.23	56.35	101.82	-29.14	184.98
	17.94	171.29	72.67	130.91	-36.79	237.83
	22.27	209.36	88.99	160.00	-44.45	290.68
1.90	27.42	224.15	97.10	171.36	-42.26	311.21
	22.75	183.40	79.60	140.21	-34.11	254.63
	18.07	142.64	62.10	109.05	-25.95	198.04
	13.40	101.89	44.60	77.89	-17.80	141.46
	8.73	61.13	27.10	46.74	-9.65	84.88
	4.05	20.38	9.61	15.58	-1.50	28.29
	0.57	18.73	7.25	14.32	-6.11	26.00
	4.87	56.18	23.33	42.95	-13.60	78.00
	9.16	93.63	39.41	71.58	-21.09	129.99
	13.46	131.08	55.49	100.21	-28.58	181.99
	17.75	168.53	71.57	128.84	-36.07	233.99
	22.05	205.98	87.65	157.47	-43.56	285.99
1.95	27.24	220.83	95.80	168.88	-41.31	306.60
	22.61	180.68	78.54	138.17	-33.33	250.85
	17.97	140.53	61.28	107.47	-25.35	195.11
	13.33	100.38	44.02	76.76	-17.36	139.36
	8.69	60.23	26.76	46.06	-9.38	83.62
	4.05	20.08	9.50	15.35	-1.39	27.87
	0.54	18.44	7.13	14.10	-6.05	25.60
	4.80	55.32	22.98	42.30	-13.39	76.80
	9.06	92.19	38.84	70.50	-20.72	128.00
	13.32	129.07	54.69	98.70	-28.05	179.20
	17.58	165.95	70.54	126.90	-35.39	230.40
	21.84	202.83	86.40	155.11	-42.72	281.59
2.00	27.09	217.72	94.59	166.54	-40.42	302.26

	22.48	178.13	77.55	136.26	-32.59	247.30
	17.87	138.55	60.51	105.98	-24.77	192.35
	13.27	98.96	43.47	75.70	-16.94	137.39
	8.66	59.38	26.43	45.42	-9.11	82.43
	4.05	19.79	9.39	15.14	-1.29	27.48
	0.51	18.17	7.02	13.90	-6.00	25.23
	4.74	54.51	22.66	41.70	-13.19	75.68
	8.97	90.85	38.30	69.49	-20.37	126.13
	13.19	127.19	53.94	97.29	-27.56	176.58
	17.42	163.53	69.59	125.09	-34.74	227.03
	21.65	199.87	85.23	152.89	-41.92	277.48
2.05	26.01	213.85	92.52	163.41	-40.50	296.92
	21.60	174.97	75.86	133.70	-32.65	242.93
	17.19	136.09	59.20	103.99	-24.81	188.95
	12.79	97.20	42.54	74.28	-16.96	134.96
	8.38	58.32	25.88	44.57	-9.12	80.98
	3.97	19.44	9.21	14.86	-1.27	26.99
	0.40	17.84	6.83	13.63	-6.03	24.77
	4.44	53.52	22.12	40.90	-13.23	74.31
	8.49	89.20	37.41	68.16	-20.43	123.85
	12.53	124.88	52.70	95.43	-27.63	173.39
	16.58	160.56	67.99	122.69	-34.83	222.93
	20.62	196.24	83.28	149.95	-42.03	272.47
2.10	25.89	211.09	91.46	161.35	-39.68	293.08
	21.51	172.71	74.99	132.01	-31.97	239.79
	17.13	134.33	58.53	102.68	-24.27	186.51
	12.74	95.95	42.06	73.34	-16.57	133.22
	8.36	57.57	25.59	44.00	-8.87	79.93
	3.98	19.19	9.13	14.67	-1.17	26.64
	0.37	17.60	6.73	13.46	-5.99	24.44
	4.39	52.81	21.84	40.37	-13.05	73.32
	8.41	88.02	36.94	67.28	-20.12	122.21
	12.43	123.22	52.05	94.19	-27.18	171.09
	16.45	158.43	67.15	121.10	-34.25	219.97
	20.47	193.64	82.26	148.01	-41.31	268.85
2.15	25.79	208.49	90.46	159.41	-38.89	289.46
	21.43	170.58	74.18	130.43	-31.33	236.83
	17.07	132.68	57.90	101.44	-23.76	184.20
	12.71	94.77	41.61	72.46	-16.20	131.57
	8.35	56.86	25.33	43.48	-8.64	78.94
	3.98	18.95	9.04	14.49	-1.07	26.31
	0.34	17.38	6.64	13.29	-5.95	24.13
	4.34	52.14	21.57	39.87	-12.89	72.40
	8.34	86.91	36.51	66.45	-19.82	120.66
	12.34	121.67	51.44	93.03	-26.76	168.93

	16.34	156.43	66.37	119.61	-33.69	217.19
	20.34	191.20	81.31	146.19	-40.63	265.45
2.20	24.64	204.98	88.48	156.53	-39.19	284.63
	20.49	167.71	72.56	128.07	-31.57	232.88
	16.34	130.44	56.63	99.61	-23.95	181.13
	12.20	93.17	40.71	71.15	-16.32	129.38
	8.05	55.90	24.79	42.69	-8.70	77.63
	3.90	18.63	8.87	14.23	-1.08	25.88
	0.23	17.08	6.46	13.05	-6.00	23.72
	4.03	51.25	21.06	39.14	-12.99	71.17
	7.84	85.42	35.66	65.23	-19.98	118.62
	11.64	119.59	50.25	91.32	-26.97	166.06
	15.45	153.76	64.85	117.41	-33.96	213.51
	19.25	187.93	79.45	143.51	-40.95	260.95
2.25	24.58	202.68	87.61	154.81	-38.46	281.42
	20.44	165.83	71.85	126.66	-30.97	230.25
	16.31	128.98	56.09	98.52	-23.47	179.08
	12.18	92.13	40.33	70.37	-15.98	127.92
	8.04	55.28	24.56	42.22	-8.48	76.75
	3.91	18.43	8.80	14.07	-0.98	25.58
	0.21	16.89	6.38	12.90	-5.97	23.45
	4.00	50.67	20.83	38.70	-12.84	70.35
	7.78	84.45	35.28	64.50	-19.71	117.25
	11.57	118.23	49.72	90.30	-26.58	164.16
	15.36	152.00	64.17	116.11	-33.45	211.06
	19.15	185.78	78.62	141.91	-40.32	257.96
2.30	24.52	200.50	86.80	153.19	-37.76	278.38
	20.40	164.04	71.19	125.34	-30.38	227.77
	16.28	127.59	55.57	97.48	-23.01	177.15
	12.16	91.13	39.96	69.63	-15.64	126.54
	8.04	54.68	24.35	41.78	-8.27	75.92
	3.92	18.23	8.74	13.93	-0.90	25.31
	0.18	16.71	6.30	12.76	-5.94	23.19
	3.96	50.12	20.61	38.29	-12.69	69.58
	7.73	83.53	34.92	63.82	-19.45	115.97
	11.51	116.94	49.23	89.35	-26.21	162.36
	15.29	150.35	63.54	114.87	-32.96	208.75
	19.06	183.76	77.85	140.40	-39.72	255.14
2.35	24.48	198.43	86.03	151.66	-37.08	275.51
	20.37	162.35	70.56	124.08	-29.83	225.42
	16.26	126.27	55.09	96.51	-22.57	175.32
	12.15	90.20	39.62	68.94	-15.32	125.23
	8.04	54.12	24.15	41.36	-8.06	75.14
	3.93	18.04	8.68	13.79	-0.81	25.05
	0.16	16.53	6.23	12.63	-5.91	22.95

	3.92	49.59	20.41	37.90	-12.56	68.86
	7.69	82.66	34.58	63.17	-19.20	114.76
	11.45	115.72	48.76	88.44	-25.85	160.67
	15.22	148.78	62.94	113.71	-32.50	206.58
	18.99	181.85	77.12	138.98	-39.15	252.48
2.40	23.74	195.77	84.61	149.51	-37.14	271.84
	19.77	160.18	69.40	122.32	-29.87	222.41
	15.80	124.58	54.19	95.14	-22.60	172.99
	11.83	88.99	38.98	67.96	-15.33	123.56
	7.85	53.39	23.77	40.77	-8.06	74.14
	3.88	17.80	8.55	13.59	-0.79	24.71
	0.08	16.31	6.10	12.45	-5.94	22.65
	3.72	48.93	20.04	37.36	-12.60	67.94
	7.36	81.54	33.98	62.27	-19.26	113.23
	10.99	114.16	47.92	87.18	-25.93	158.52
	14.63	146.78	61.85	112.09	-32.59	203.81
	18.27	179.40	75.79	137.00	-39.25	249.10
2.45	23.71	193.92	83.93	148.13	-36.51	269.26
	19.75	158.66	68.85	121.20	-29.35	220.30
	15.79	123.40	53.76	94.27	-22.19	171.35
	11.82	88.15	38.67	67.33	-15.03	122.39
	7.86	52.89	23.59	40.40	-7.86	73.43
	3.90	17.63	8.50	13.47	-0.70	24.48
	0.06	16.15	6.03	12.34	-5.92	22.43
	3.69	48.46	19.86	37.02	-12.48	67.29
	7.32	80.77	33.68	61.70	-19.04	112.15
	10.95	113.08	47.50	86.38	-25.60	157.01
	14.58	145.39	61.33	111.06	-32.17	201.87
	18.21	177.70	75.15	135.74	-38.73	246.73
2.50	23.69	192.16	83.29	146.83	-35.91	266.81
	19.74	157.22	68.32	120.14	-28.85	218.30
	15.78	122.29	53.36	93.44	-21.79	169.79
	11.83	87.35	38.39	66.74	-14.74	121.28
	7.87	52.41	23.42	40.05	-7.68	72.77
	3.92	17.47	8.45	13.35	-0.62	24.26
	0.04	16.01	5.97	12.23	-5.90	22.23
	3.66	48.02	19.69	36.70	-12.36	66.68
	7.29	80.04	33.40	61.16	-18.83	111.13
	10.91	112.06	47.12	85.62	-25.30	155.59
	14.53	144.07	60.83	110.09	-31.76	200.04
	18.16	176.09	74.55	134.55	-38.23	244.49
2.55	23.68	190.50	82.69	145.60	-35.32	264.49
	19.73	155.86	67.83	119.13	-28.37	216.40
	15.78	121.22	52.98	92.66	-21.41	168.31
	11.83	86.59	38.12	66.18	-14.45	120.22

	7.88	51.95	23.26	39.71	-7.50	72.13
	3.93	17.32	8.41	13.24	-0.54	24.04
	0.02	15.87	5.91	12.13	-5.88	22.03
	3.64	47.61	19.52	36.39	-12.25	66.10
	7.26	79.35	33.14	60.65	-18.63	110.17
	10.88	111.09	46.75	84.91	-25.00	154.24
	14.49	142.83	60.37	109.17	-31.38	198.31
	18.11	174.57	73.98	133.43	-37.75	242.37
2.60	23.68	188.91	82.12	144.43	-34.76	262.28
	19.73	154.56	67.37	118.17	-27.90	214.59
	15.79	120.22	52.62	91.91	-21.04	166.91
	11.84	85.87	37.87	65.65	-14.18	119.22
	7.90	51.52	23.12	39.39	-7.32	71.53
	3.95	17.17	8.36	13.13	-0.46	23.84
	0.00	15.74	5.85	12.03	-5.86	21.85
	3.61	47.22	19.37	36.10	-12.15	65.56
	7.23	78.69	32.89	60.17	-18.44	109.26
	10.84	110.17	46.41	84.23	-24.72	152.96
	14.46	141.65	59.93	108.30	-31.01	196.67
	18.08	173.13	73.45	132.37	-37.29	240.37
2.65	23.68	187.40	81.59	143.32	-34.22	260.18
	19.74	153.33	66.93	117.26	-27.45	212.88
	15.80	119.26	52.28	91.20	-20.69	165.57
	11.86	85.18	37.63	65.15	-13.92	118.26
	7.91	51.11	22.98	39.09	-7.15	70.96
	3.97	17.04	8.32	13.03	-0.39	23.65
	-0.02	15.62	5.80	11.94	-5.85	21.68
	3.59	46.85	19.23	35.83	-12.05	65.04
	7.20	78.08	32.66	59.71	-18.25	108.40
	10.82	109.31	46.09	83.59	-24.45	151.75
	14.43	140.54	59.52	107.48	-30.65	195.11
	18.05	171.77	72.95	131.36	-36.86	238.47
2.70	23.69	185.97	81.08	142.27	-33.69	258.19
	19.75	152.16	66.52	116.40	-27.02	211.24
	15.81	118.35	51.96	90.53	-20.34	164.30
	11.87	84.53	37.41	64.67	-13.66	117.36
	7.93	50.72	22.85	38.80	-6.99	70.41
	3.99	16.91	8.29	12.93	-0.31	23.47
	-0.04	15.50	5.75	11.86	-5.83	21.52
	3.57	46.49	19.09	35.57	-11.95	64.55
	7.18	77.49	32.44	59.28	-18.07	107.58
	10.80	108.48	45.78	82.99	-24.19	150.61
	14.41	139.48	59.13	106.70	-30.31	193.64
	18.02	170.48	72.48	130.41	-36.43	236.67
2.75	23.71	184.61	80.60	141.27	-33.18	256.29

	19.77	151.04	66.13	115.58	-26.59	209.69
	15.83	117.48	51.66	89.90	-20.00	163.09
	11.89	83.91	37.19	64.21	-13.41	116.49
	7.95	50.35	22.72	38.53	-6.83	69.90
	4.01	16.78	8.25	12.84	-0.24	23.30
	-0.06	15.39	5.70	11.77	-5.82	21.36
	3.55	46.16	18.97	35.32	-11.86	64.08
	7.16	76.93	32.23	58.87	-17.91	106.81
	10.78	107.71	45.50	82.42	-23.95	149.53
	14.39	138.48	58.76	105.97	-29.99	192.25
	18.00	169.25	72.03	129.52	-36.03	234.97
	23.73	183.31	80.15	140.31	-32.69	254.48
2.80	19.79	149.98	65.77	114.80	-26.18	208.21
	15.85	116.65	51.38	89.29	-19.68	161.94
	11.91	83.32	37.00	63.78	-13.17	115.67
	7.97	49.99	22.61	38.27	-6.67	69.40
	4.03	16.66	8.22	12.76	-0.16	23.13
	-0.08	15.28	5.65	11.70	-5.81	21.21
	3.53	45.84	18.84	35.09	-11.78	63.64
	7.15	76.41	32.04	58.49	-17.74	106.07
	10.76	106.97	45.23	81.88	-23.71	148.50
	14.37	137.53	58.42	105.27	-29.67	190.93
	17.99	168.09	71.61	128.67	-35.64	233.36
	23.76	182.07	79.73	139.41	-32.21	252.75
2.85	19.82	148.97	65.42	114.06	-25.78	206.80
	15.88	115.86	51.11	88.71	-19.36	160.84
	11.93	82.76	36.81	63.37	-12.94	114.89
	7.99	49.66	22.50	38.02	-6.52	68.93
	4.05	16.55	8.19	12.67	-0.09	22.98
	-0.10	15.18	5.61	11.62	-5.81	21.07
	3.52	45.54	18.73	34.87	-11.70	63.22
	7.13	75.91	31.85	58.12	-17.59	105.37
	10.75	106.27	44.98	81.37	-23.48	147.52
	14.36	136.63	58.10	104.62	-29.37	189.67
	17.98	167.00	71.22	127.86	-35.26	231.82
	23.79	180.89	79.33	138.54	-31.74	251.11
2.90	19.85	148.00	65.10	113.35	-25.40	205.45
	15.91	115.11	50.86	88.16	-19.05	159.80
	11.96	82.22	36.63	62.97	-12.71	114.14
	8.02	49.33	22.40	37.78	-6.37	68.48
	4.07	16.44	8.17	12.59	-0.02	22.83
	-0.12	15.09	5.57	11.55	-5.80	20.94
	3.50	45.26	18.62	34.66	-11.62	62.83
	7.12	75.43	31.68	57.77	-17.44	104.71
	10.74	105.61	44.74	80.88	-23.26	146.60

	14.36	135.78	57.79	103.99	-29.08	188.48
	17.98	165.95	70.85	127.10	-34.90	230.37
2.95	23.83	179.77	78.95	137.72	-31.29	249.54
	19.88	147.08	64.79	112.68	-25.02	204.17
	15.94	114.40	50.63	87.64	-18.75	158.80
	11.99	81.71	36.46	62.60	-12.49	113.43
	8.04	49.03	22.30	37.56	-6.22	68.06
	4.09	16.34	8.14	12.52	0.05	22.69
	-0.14	15.00	5.52	11.49	-5.79	20.82
	3.49	44.99	18.52	34.47	-11.55	62.45
	7.11	74.98	31.52	57.45	-17.30	104.09
	10.73	104.98	44.51	80.42	-23.05	145.72
	14.35	134.97	57.51	103.40	-28.80	187.36
	17.98	164.96	70.50	126.38	-34.55	228.99
	3.00	23.87	178.69	78.59	136.94	-30.84
19.92		146.20	64.50	112.04	-24.65	202.95
15.97		113.71	50.40	87.14	-18.46	157.85
12.02		81.22	36.31	62.25	-12.27	112.75
8.07		48.73	22.21	37.35	-6.08	67.65
4.12		16.24	8.12	12.45	0.12	22.55
-0.15		14.91	5.49	11.43	-5.79	20.70
3.47		44.73	18.42	34.28	-11.47	62.09
7.10		74.56	31.36	57.14	-17.16	103.49
10.73		104.38	44.30	79.99	-22.84	144.89
14.36		134.20	57.24	102.84	-28.53	186.28
17.98		164.02	70.17	125.70	-34.21	227.68
3.05		23.92	177.67	78.26	136.20	-30.41
	19.97	145.37	64.22	111.43	-24.29	201.78
	16.01	113.06	50.19	86.67	-18.17	156.94
	12.05	80.76	36.16	61.91	-12.05	112.10
	8.10	48.46	22.13	37.14	-5.93	67.26
	4.14	16.15	8.10	12.38	0.19	22.42
	-0.17	14.83	5.45	11.37	-5.79	20.58
	3.46	44.49	18.33	34.10	-11.41	61.75
	7.09	74.15	31.22	56.84	-17.03	102.92
	10.73	103.81	44.10	79.58	-22.64	144.09
	14.36	133.47	56.98	102.31	-28.26	185.26
	17.99	163.13	69.87	125.05	-33.88	226.43
	3.10	23.97	176.69	77.94	135.49	-29.99
20.01		144.57	63.97	110.85	-23.94	200.66
16.05		112.44	49.99	86.22	-17.89	156.07
12.09		80.32	36.02	61.59	-11.85	111.48
8.13		48.19	22.05	36.95	-5.80	66.89
4.17		16.06	8.08	12.32	0.25	22.30
-0.19		14.75	5.41	11.31	-5.79	20.48

	3.45	44.26	18.25	33.94	-11.34	61.43
	7.09	73.76	31.08	56.56	-16.90	102.39
	10.73	103.27	43.91	79.19	-22.45	143.34
	14.37	132.78	56.74	101.81	-28.01	184.30
	18.01	162.28	69.58	124.44	-33.57	225.25
3.15	24.03	175.76	77.64	134.81	-29.58	243.95
	20.06	143.80	63.72	110.30	-23.60	199.60
	16.09	111.85	49.81	85.79	-17.62	155.24
	12.12	79.89	35.89	61.28	-11.64	110.89
	8.16	47.93	21.98	36.77	-5.66	66.53
	4.19	15.98	8.06	12.26	0.32	22.18
	-0.20	14.68	5.38	11.26	-5.79	20.38
	3.44	44.04	18.16	33.78	-11.28	61.13
	7.09	73.40	30.95	56.30	-16.78	101.88
	10.73	102.76	43.73	78.82	-22.27	142.63
	14.38	132.12	56.52	101.34	-27.76	183.38
	18.02	161.48	69.30	123.86	-33.26	224.13
3.20	24.09	174.87	77.36	134.17	-29.18	242.71
	20.11	143.07	63.49	109.77	-23.27	198.58
	16.14	111.28	49.63	85.38	-17.36	154.45
	12.16	79.48	35.77	60.98	-11.44	110.32
	8.19	47.69	21.91	36.59	-5.53	66.19
	4.21	15.90	8.04	12.20	0.38	22.06
	-0.22	14.61	5.35	11.21	-5.79	20.28
	3.43	43.83	18.09	33.63	-11.22	60.83
	7.08	73.05	30.83	56.05	-16.66	101.39
	10.74	102.27	43.57	78.47	-22.09	141.95
	14.39	131.49	56.31	100.89	-27.53	182.50
	18.04	160.71	69.05	123.30	-32.96	223.06
3.25	24.15	174.01	77.09	133.55	-28.79	241.52
	20.17	142.37	63.28	109.27	-22.94	197.60
	16.19	110.74	49.47	84.99	-17.10	153.69
	12.20	79.10	35.65	60.70	-11.25	109.78
	8.22	47.46	21.84	36.42	-5.40	65.87
	4.24	15.82	8.03	12.14	0.45	21.96
	-0.24	14.54	5.32	11.16	-5.79	20.19
	3.42	43.63	18.01	33.49	-11.17	60.56
	7.08	72.72	30.71	55.81	-16.54	100.93
	10.75	101.81	43.41	78.13	-21.92	141.30
	14.41	130.89	56.11	100.46	-27.30	181.67
	18.07	159.98	68.81	122.78	-32.67	222.04
3.30	24.22	173.20	76.84	132.96	-28.41	240.38
	20.23	141.71	63.08	108.79	-22.62	196.67
	16.24	110.22	49.31	84.61	-16.84	152.97
	12.25	78.73	35.55	60.44	-11.06	109.26

	8.26	47.24	21.78	36.26	-5.27	65.56
	4.27	15.75	8.02	12.09	0.51	21.85
	-0.25	14.48	5.29	11.12	-5.79	20.10
	3.42	43.44	17.94	33.35	-11.11	60.29
	7.09	72.40	30.60	55.58	-16.43	100.49
	10.76	101.37	43.26	77.82	-21.75	140.68
	14.42	130.33	55.92	100.05	-27.07	180.88
	18.09	159.29	68.58	122.29	-32.39	221.07
3.35	24.28	172.42	76.60	132.40	-28.03	239.29
	20.29	141.07	62.88	108.33	-22.31	195.78
	16.29	109.72	49.17	84.26	-16.59	152.27
	12.29	78.37	35.45	60.18	-10.87	108.77
	8.29	47.02	21.73	36.11	-5.15	65.26
	4.29	15.67	8.01	12.04	0.58	21.75
	-0.27	14.42	5.26	11.07	-5.80	20.01
	3.41	43.26	17.88	33.22	-11.06	60.04
	7.09	72.10	30.50	55.37	-16.33	100.07
	10.77	100.95	43.12	77.52	-21.59	140.10
	14.45	129.79	55.75	99.67	-26.86	180.13
	18.12	158.63	68.37	121.82	-32.12	220.15
3.40	24.36	171.67	76.38	131.87	-27.67	238.25
	20.35	140.46	62.71	107.89	-22.01	194.93
	16.34	109.25	49.03	83.92	-16.34	151.61
	12.33	78.03	35.35	59.94	-10.68	108.29
	8.33	46.82	21.67	35.96	-5.02	64.98
	4.32	15.61	8.00	11.99	0.64	21.66
	-0.29	14.36	5.23	11.03	-5.80	19.93
	3.40	43.09	17.82	33.10	-11.01	59.80
	7.09	71.82	30.41	55.17	-16.22	99.67
	10.78	100.55	42.99	77.24	-21.43	139.54
	14.47	129.28	55.58	99.30	-26.64	179.41
	18.16	158.00	68.17	121.37	-31.86	219.28
3.45	24.43	170.96	76.17	131.36	-27.31	237.25
	20.42	139.87	62.54	107.48	-21.71	194.11
	16.40	108.79	48.90	83.59	-16.10	150.98
	12.38	77.71	35.26	59.71	-10.50	107.84
	8.36	46.62	21.62	35.83	-4.90	64.70
	4.34	15.54	7.99	11.94	0.70	21.57
	-0.30	14.31	5.20	11.00	-5.81	19.86
	3.40	42.93	17.76	32.99	-10.96	59.58
	7.10	71.55	30.32	54.98	-16.12	99.29
	10.80	100.17	42.87	76.97	-21.28	139.01
	14.50	128.79	55.43	98.96	-26.44	178.73
	18.19	157.41	67.99	120.95	-31.60	218.44
3.50	24.51	170.27	75.98	130.87	-26.96	236.29

	20.48	139.31	62.38	107.08	-21.41	193.33
	16.46	108.36	48.78	83.28	-15.87	150.37
	12.43	77.40	35.18	59.49	-10.32	107.41
	8.40	46.44	21.58	35.69	-4.78	64.44
	4.37	15.48	7.98	11.90	0.77	21.48
	-0.32	14.26	5.18	10.96	-5.81	19.79
	3.39	42.77	17.70	32.88	-10.92	59.36
	7.10	71.29	30.23	54.79	-16.03	98.93
	10.81	99.81	42.76	76.71	-21.13	138.50
	14.52	128.32	55.29	98.63	-26.24	178.08
	18.23	156.84	67.81	120.55	-31.35	217.65
	24.59	169.62	75.79	130.41	-26.61	235.38
	20.55	138.78	62.23	106.70	-21.12	192.58
	16.52	107.94	48.67	82.99	-15.64	149.79
	12.48	77.10	35.10	59.28	-10.15	106.99
	8.44	46.26	21.54	35.57	-4.66	64.19
	4.40	15.42	7.97	11.86	0.83	21.40
	-0.33	14.21	5.15	10.92	-5.82	19.72
	3.39	42.63	17.65	32.77	-10.88	59.15
	7.11	71.05	30.15	54.62	-15.93	98.59
	10.83	99.46	42.65	76.47	-20.99	138.02
	14.55	127.88	55.15	98.32	-26.04	177.46
	18.27	156.30	67.65	120.17	-31.10	216.90
	24.68	168.99	75.62	129.96	-26.27	234.50
	20.63	138.27	62.09	106.33	-20.84	191.87
	16.58	107.54	48.56	82.70	-15.41	149.23
	12.53	76.81	35.03	59.07	-9.98	106.59
	8.48	46.09	21.50	35.44	-4.54	63.96
	4.43	15.36	7.97	11.81	0.89	21.32
	-0.35	14.16	5.13	10.89	-5.83	19.65
	3.38	42.49	17.60	32.67	-10.83	58.96
	7.12	70.81	30.08	54.46	-15.84	98.26
	10.85	99.14	42.55	76.24	-20.85	137.57
	14.58	127.46	55.02	98.02	-25.86	176.87
	18.32	155.79	67.50	119.81	-30.86	216.18
	24.76	168.39	75.46	129.54	-25.94	233.66
	20.70	137.77	61.96	105.99	-20.56	191.18
	16.64	107.16	48.46	82.43	-15.18	148.69
	12.58	76.54	34.96	58.88	-9.81	106.21
	8.52	45.92	21.46	35.33	-4.43	63.73
	4.46	15.31	7.96	11.78	0.95	21.24
	-0.36	14.12	5.11	10.86	-5.83	19.59
	3.38	42.35	17.56	32.58	-10.79	58.77
	7.13	70.59	30.01	54.30	-15.75	97.95
	10.87	98.82	42.46	76.02	-20.71	137.13

	14.62	127.06	54.91	97.75	-25.67	176.31
	18.36	155.30	67.36	119.47	-30.63	215.49
3.70	24.85	167.82	75.31	129.14	-25.61	232.86
	20.78	137.30	61.84	105.66	-20.29	190.52
	16.70	106.79	48.37	82.18	-14.96	148.18
	12.63	76.28	34.90	58.70	-9.64	105.84
	8.56	45.77	21.43	35.22	-4.31	63.51
	4.48	15.26	7.96	11.74	1.01	21.17
	-0.38	14.08	5.09	10.83	-5.84	19.53
	3.38	42.23	17.51	32.49	-10.75	58.59
	7.14	70.38	29.94	54.16	-15.67	97.65
	10.90	98.53	42.37	75.82	-20.58	136.72
	14.65	126.68	54.80	97.48	-25.49	175.78
	18.41	154.83	67.23	119.14	-30.40	214.84
	3.75	24.94	167.26	75.17	128.75	-25.29
20.86		136.85	61.73	105.34	-20.02	189.89
16.77		106.44	48.28	81.93	-14.74	147.69
12.68		76.03	34.84	58.52	-9.47	105.49
8.60		45.62	21.40	35.11	-4.20	63.30
4.51		15.21	7.96	11.70	1.07	21.10
-0.39		14.04	5.06	10.80	-5.85	19.47
3.38		42.11	17.47	32.41	-10.72	58.42
7.15		70.18	29.88	54.02	-15.58	97.37
10.92		98.25	42.29	75.62	-20.45	136.32
14.69		126.32	54.70	97.23	-25.31	175.27
18.46		154.39	67.10	118.84	-30.18	214.22
3.80	25.04	166.74	75.04	128.38	-24.97	231.35
	20.94	136.42	61.62	105.04	-19.75	189.28
	16.84	106.10	48.21	81.70	-14.53	147.22
	12.74	75.79	34.79	58.35	-9.31	105.16
	8.64	45.47	21.37	35.01	-4.09	63.09
	4.54	15.16	7.95	11.67	1.13	21.03
	-0.41	14.00	5.04	10.78	-5.86	19.42
	3.38	41.99	17.43	32.33	-10.68	58.26
	7.16	69.98	29.82	53.89	-15.50	97.10
	10.94	97.98	42.21	75.44	-20.32	135.95
	14.73	125.97	54.60	96.99	-25.14	174.79
	18.51	153.97	66.99	118.55	-29.96	213.63
3.85	25.13	166.23	74.92	128.03	-24.66	230.64
	21.02	136.01	61.53	104.75	-19.49	188.70
	16.91	105.78	48.13	81.47	-14.32	146.77
	12.79	75.56	34.74	58.19	-9.15	104.84
	8.68	45.34	21.35	34.92	-3.98	62.90
	4.57	15.11	7.95	11.64	1.19	20.97
	-0.42	13.96	5.02	10.75	-5.87	19.37

	3.37	41.88	17.40	32.26	-10.65	58.11
	7.17	69.80	29.77	53.76	-15.42	96.85
	10.97	97.72	42.14	75.26	-20.20	135.59
	14.77	125.64	54.51	96.77	-24.97	174.33
	18.57	153.57	66.89	118.27	-29.75	213.07
3.90	25.23	165.74	74.80	127.69	-24.35	229.96
	21.10	135.61	61.43	104.47	-19.23	188.15
	16.98	105.47	48.06	81.26	-14.11	146.34
	12.85	75.34	34.69	58.04	-8.99	104.53
	8.73	45.20	21.32	34.82	-3.87	62.72
	4.60	15.07	7.95	11.61	1.25	20.91
	-0.44	13.93	5.01	10.73	-5.88	19.32
	3.37	41.78	17.36	32.19	-10.62	57.96
	7.19	69.63	29.72	53.64	-15.35	96.61
	11.00	97.48	42.08	75.10	-20.08	135.25
	14.81	125.33	54.43	96.56	-24.81	173.89
	18.62	153.18	66.79	118.01	-29.54	212.53
3.95	25.33	165.28	74.70	127.37	-24.05	229.31
	21.19	135.23	61.35	104.21	-18.98	187.62
	17.05	105.18	48.00	81.05	-13.91	145.92
	12.91	75.13	34.65	57.90	-8.83	104.23
	8.77	45.08	21.30	34.74	-3.76	62.54
	4.63	15.03	7.95	11.58	1.31	20.85
	-0.45	13.89	4.99	10.71	-5.90	19.27
	3.37	41.68	17.33	32.12	-10.58	57.82
	7.20	69.46	29.67	53.53	-15.27	96.37
	11.03	97.25	42.02	74.94	-19.96	134.92
	14.86	125.04	54.36	96.36	-24.65	173.47
	18.68	152.82	66.70	117.77	-29.34	212.02
4.00	25.43	164.83	74.60	127.06	-23.75	228.68
	21.27	134.86	61.27	103.96	-18.72	187.10
	17.12	104.89	47.94	80.86	-13.70	145.53
	12.97	74.92	34.62	57.76	-8.68	103.95
	8.81	44.95	21.29	34.65	-3.66	62.37
	4.66	14.98	7.96	11.55	1.36	20.79
	-0.47	13.86	4.97	10.69	-5.91	19.23
	3.37	41.58	17.30	32.06	-10.55	57.69
	7.22	69.31	29.63	53.43	-15.20	96.15
	11.06	97.03	41.96	74.80	-19.85	134.62
	14.90	124.75	54.29	96.17	-24.49	173.08
	18.74	152.48	66.62	117.54	-29.14	211.54
4.05	25.53	164.41	74.51	126.77	-23.45	228.08
	21.36	134.51	61.20	103.72	-18.48	186.61
	17.20	104.62	47.89	80.67	-13.50	145.14
	13.03	74.73	34.58	57.62	-8.53	103.67

	8.86	44.84	21.27	34.57	-3.55	62.20
	4.69	14.95	7.96	11.52	1.42	20.73
	-0.48	13.83	4.95	10.67	-5.92	19.19
	3.37	41.49	17.27	32.00	-10.52	57.57
	7.23	69.16	29.59	53.33	-15.13	95.94
	11.09	96.82	41.91	74.66	-19.73	134.32
	14.95	124.48	54.23	95.99	-24.34	172.70
	18.80	152.15	66.55	117.32	-28.94	211.08
4.10	25.64	164.00	74.43	126.49	-23.16	227.51
	21.45	134.18	61.14	103.49	-18.23	186.14
	17.27	104.36	47.84	80.49	-13.30	144.78
	13.09	74.54	34.55	57.50	-8.38	103.41
	8.90	44.73	21.26	34.50	-3.45	62.05
	4.72	14.91	7.96	11.50	1.48	20.68
	-0.50	13.80	4.94	10.65	-5.93	19.15
	3.37	41.41	17.25	31.94	-10.50	57.45
	7.25	69.02	29.55	53.23	-15.06	95.75
	11.12	96.62	41.86	74.53	-19.62	134.04
	14.99	124.23	54.17	95.82	-24.18	172.34
	18.87	151.84	66.48	117.11	-28.75	210.64
4.15	25.74	163.60	74.36	126.23	-22.87	226.96
	21.54	133.86	61.08	103.28	-17.99	185.69
	17.35	104.11	47.80	80.33	-13.11	144.43
	13.15	74.37	34.52	57.38	-8.23	103.16
	8.95	44.62	21.24	34.43	-3.34	61.90
	4.75	14.87	7.97	11.48	1.54	20.63
	-0.51	13.78	4.92	10.63	-5.95	19.11
	3.38	41.33	17.22	31.89	-10.47	57.33
	7.26	68.88	29.52	53.14	-14.99	95.56
	11.15	96.43	41.82	74.40	-19.51	133.78
	15.04	123.99	54.12	95.66	-24.04	172.00
	18.93	151.54	66.42	116.92	-28.56	210.22
4.20	25.85	163.23	74.29	125.97	-22.59	226.43
	21.64	133.55	61.03	103.07	-17.75	185.26
	17.42	103.87	47.76	80.16	-12.92	144.09
	13.21	74.19	34.50	57.26	-8.08	102.92
	9.00	44.52	21.23	34.36	-3.24	61.75
	4.78	14.84	7.97	11.45	1.60	20.58
	-0.53	13.75	4.91	10.61	-5.96	19.08
	3.38	41.25	17.20	31.84	-10.44	57.23
	7.28	68.75	29.49	53.06	-14.93	95.38
	11.19	96.25	41.78	74.29	-19.41	133.53
	15.09	123.76	54.07	95.51	-23.89	171.68
	19.00	151.26	66.36	116.73	-28.37	209.83
4.25	25.96	162.87	74.23	125.73	-22.31	225.92

	21.73	133.25	60.98	102.87	-17.52	184.85
	17.50	103.64	47.73	80.01	-12.73	143.77
	13.27	74.03	34.48	57.15	-7.93	102.69
	9.04	44.42	21.23	34.29	-3.14	61.62
	4.81	14.81	7.98	11.43	1.65	20.54
	-0.54	13.73	4.89	10.60	-5.97	19.04
	3.38	41.18	17.18	31.79	-10.42	57.12
	7.30	68.63	29.46	52.98	-14.86	95.20
	11.22	96.08	41.75	74.18	-19.30	133.29
	15.14	123.54	54.03	95.37	-23.75	171.37
	19.06	150.99	66.32	116.56	-28.19	209.45
	26.07	162.52	74.18	125.50	-22.03	225.44
	21.83	132.97	60.94	102.68	-17.28	184.45
	17.58	103.42	47.70	79.86	-12.54	143.46
	13.34	73.87	34.46	57.05	-7.79	102.47
	9.09	44.32	21.22	34.23	-3.04	61.48
	4.84	14.77	7.98	11.41	1.71	20.49
	-0.56	13.70	4.88	10.58	-5.99	19.01
	3.38	41.11	17.16	31.75	-10.39	57.03
	7.32	68.52	29.44	52.91	-14.80	95.04
	11.26	95.92	41.71	74.07	-19.20	133.06
	15.19	123.33	53.99	95.24	-23.61	171.08
	19.13	150.74	66.27	116.40	-28.01	209.09
	26.18	162.19	74.13	125.28	-21.76	224.97
	21.92	132.70	60.90	102.50	-17.05	184.07
	17.66	103.21	47.67	79.72	-12.35	143.16
	13.40	73.72	34.44	56.95	-7.64	102.26
	9.14	44.23	21.21	34.17	-2.94	61.36
	4.88	14.74	7.99	11.39	1.77	20.45
	-0.57	13.68	4.86	10.57	-6.00	18.98
	3.38	41.04	17.14	31.70	-10.37	56.93
	7.34	68.41	29.41	52.84	-14.74	94.89
	11.29	95.77	41.69	73.98	-19.10	132.84
	15.25	123.13	53.96	95.11	-23.47	170.80
	19.20	150.50	66.24	116.25	-27.83	208.75
	26.30	161.87	74.08	125.07	-21.49	224.52
	22.02	132.44	60.87	102.33	-16.83	183.70
	17.74	103.01	47.65	79.59	-12.16	142.88
	13.46	73.58	34.43	56.85	-7.50	102.06
	9.19	44.15	21.21	34.11	-2.84	61.23
	4.91	14.72	7.99	11.37	1.82	20.41
	-0.58	13.66	4.85	10.56	-6.02	18.95
	3.39	40.98	17.12	31.67	-10.35	56.84
	7.36	68.30	29.39	52.78	-14.68	94.74
	11.33	95.62	41.66	73.89	-19.00	132.64

	15.30	122.95	53.93	95.00	-23.33	170.53
	19.27	150.27	66.20	116.11	-27.66	208.43
4.45	26.41	161.56	74.05	124.87	-21.22	224.09
	22.12	132.19	60.84	102.17	-16.60	183.35
	17.82	102.81	47.63	79.46	-11.98	142.61
	13.53	73.44	34.42	56.76	-7.36	101.86
	9.23	44.06	21.21	34.06	-2.74	61.12
	4.94	14.69	8.00	11.35	1.88	20.37
	-0.60	13.64	4.84	10.54	-6.04	18.92
	3.39	40.92	17.11	31.63	-10.33	56.76
	7.38	68.20	29.37	52.71	-14.62	94.60
	11.37	95.49	41.64	73.80	-18.91	132.44
	15.36	122.77	53.91	94.89	-23.20	170.28
	19.34	150.05	66.18	115.97	-27.49	208.13
	4.50	26.53	161.27	74.01	124.68	-20.95
22.22		131.95	60.81	102.01	-16.38	183.01
17.91		102.63	47.61	79.34	-11.80	142.34
13.60		73.31	34.41	56.67	-7.22	101.67
9.28		43.98	21.21	34.00	-2.64	61.00
4.97		14.66	8.01	11.33	1.93	20.33
-0.61		13.62	4.82	10.53	-6.05	18.89
3.39		40.87	17.09	31.59	-10.30	56.68
7.40		68.11	29.36	52.66	-14.56	94.47
11.41		95.36	41.62	73.72	-18.81	132.26
15.41		122.60	53.89	94.78	-23.07	170.05
19.42		149.85	66.15	115.85	-27.32	207.84

A2.1.4.- Cercha con 14 divisiones del cordón

En la Figura 4 se indica el cálculo de la cercha con el cordón dividido en 14 espacios para alturas desde 50cm hasta 450cm con intervalos de 5cm, con el software Matlab2018.

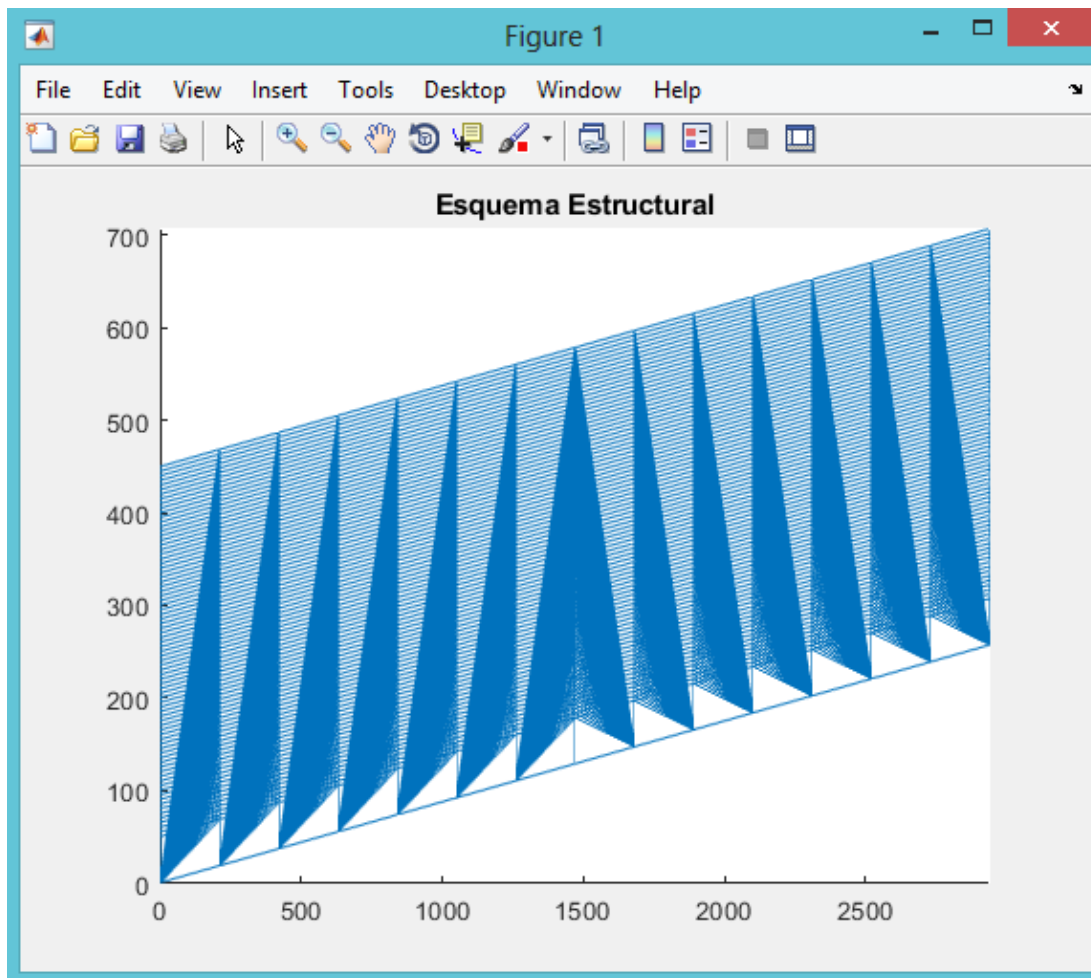


Figura 4. Cercha con el cordón dividido en 14 espacios (ejes en cm)

En la Tabla 13 se muestran las combinaciones de esfuerzos para el cordón inferior en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 13. Combinación de esfuerzos del cordón inferior - 14 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Mín (KN)	Máx(KN)	Mín (KN)	Máx(KN)	Min (KN)	Máx(KN)
0.50	206.84	1080.49	516.40	846.31	-102.71	1496.84
	110.01	563.73	270.47	441.55	-50.45	780.96
	30.57	140.93	69.15	110.39	-8.00	195.24
	-187.91	-31.46	-147.18	-87.55	-260.32	24.64
	-422.80	-76.08	-331.17	-199.64	-585.72	47.48
	-563.73	-103.30	-441.55	-267.12	-780.96	60.51
	-610.71	-113.12	-478.35	-289.98	-846.04	63.74
	-610.71	-113.12	-478.35	-289.98	-846.04	63.74
	-563.73	-105.54	-441.55	-268.23	-780.96	57.16
	-422.80	-80.55	-331.17	-201.87	-585.72	40.77
	-187.91	-38.16	-147.18	-90.90	-260.32	14.58

	21.64	140.93	64.68	110.39	-21.41	195.24
	98.83	563.73	264.88	441.55	-67.21	780.96
	193.44	1080.49	509.69	846.31	-122.82	1496.84
0.55	162.92	956.53	444.02	743.64	-118.19	1326.03
	87.09	499.06	232.71	387.99	-58.53	691.84
	24.84	124.77	59.71	97.00	-10.02	172.96
	-166.35	-23.82	-129.33	-74.96	-230.61	27.33
	-374.30	-58.89	-290.99	-171.32	-518.88	53.53
	-499.06	-80.39	-387.99	-229.36	-691.84	68.59
	-540.65	-88.29	-420.32	-249.08	-749.50	72.49
	-540.65	-88.29	-420.32	-249.08	-749.50	72.49
	-499.06	-82.62	-387.99	-230.47	-691.84	65.23
	-374.30	-63.36	-290.99	-173.55	-518.88	46.83
	-166.35	-30.52	-129.33	-78.31	-230.61	17.28
	15.91	124.77	55.24	97.00	-23.43	172.96
	75.92	499.06	227.12	387.99	-75.29	691.84
	149.51	956.53	437.32	743.64	-138.30	1326.03
	0.60	138.14	865.06	395.54	669.91	-119.26
74.16		451.34	207.42	349.52	-59.09	625.91
21.61		112.83	53.39	87.38	-10.16	156.48
-150.45		-19.51	-116.51	-66.53	-208.64	27.52
-338.50		-49.20	-262.14	-152.35	-469.43	53.95
-451.34		-67.46	-349.52	-204.06	-625.91	69.14
-488.95		-74.29	-378.65	-221.67	-678.07	73.09
-488.95		-74.29	-378.65	-221.67	-678.07	73.09
-451.34		-69.69	-349.52	-205.18	-625.91	65.79
-338.50		-53.67	-262.14	-154.58	-469.43	47.25
-150.45		-26.21	-116.51	-69.88	-208.64	17.46
12.68		112.83	48.92	87.38	-23.57	156.48
62.99		451.34	201.83	349.52	-75.85	625.91
124.74		865.06	388.84	669.91	-139.37	1199.66
0.65		120.81	791.30	358.16	611.16	-116.53
	65.12	412.85	187.91	318.87	-57.67	572.68
	19.35	103.21	48.51	79.72	-9.81	143.17
	-137.62	-16.49	-106.29	-60.03	-190.89	27.04
	-309.64	-42.42	-239.15	-137.72	-429.51	52.89
	-412.85	-58.42	-318.87	-184.56	-572.68	67.72
	-447.26	-64.50	-345.44	-200.54	-620.40	71.55
	-447.26	-64.50	-345.44	-200.54	-620.40	71.55
	-412.85	-60.65	-318.87	-185.67	-572.68	64.37
	-309.64	-46.89	-239.15	-139.95	-429.51	46.18
	-137.62	-23.20	-106.29	-63.38	-190.89	16.99
	10.41	103.21	44.04	79.72	-23.21	143.17
	53.95	412.85	182.32	318.87	-74.42	572.68
	107.41	791.30	351.45	611.16	-136.64	1097.63

0.70	101.21	723.33	321.37	556.06	-118.94	1003.77
	54.90	377.39	168.71	290.12	-58.92	523.71
	16.80	94.35	43.71	72.53	-10.12	130.93
	-125.80	-13.08	-96.71	-53.63	-174.57	27.46
	-283.04	-34.75	-217.59	-123.32	-392.78	53.83
	-377.39	-48.19	-290.12	-165.36	-523.71	68.98
	-408.84	-53.42	-314.30	-179.75	-567.35	72.91
	-408.84	-53.42	-314.30	-179.75	-567.35	72.91
	-377.39	-50.43	-290.12	-166.48	-523.71	65.62
	-283.04	-39.22	-217.59	-125.56	-392.78	47.12
	-125.80	-19.79	-96.71	-56.98	-174.57	17.41
	7.86	94.35	39.25	72.53	-23.53	130.93
	43.72	377.39	163.13	290.12	-75.68	523.71
	87.81	723.33	314.66	556.06	-139.05	1003.77
0.75	95.54	675.73	300.79	519.61	-109.71	937.69
	51.93	352.56	157.98	271.10	-54.11	489.23
	16.06	88.14	41.03	67.78	-8.92	122.31
	-117.52	-12.10	-90.37	-50.05	-163.08	25.86
	-264.42	-32.53	-203.33	-115.27	-366.92	50.22
	-352.56	-45.23	-271.10	-154.63	-489.23	64.16
	-381.94	-50.21	-293.69	-168.12	-530.00	67.70
	-381.94	-50.21	-293.69	-168.12	-530.00	67.70
	-352.56	-47.46	-271.10	-155.74	-489.23	60.81
	-264.42	-37.00	-203.33	-117.51	-366.92	43.51
	-117.52	-18.80	-90.37	-53.40	-163.08	15.80
	7.12	88.14	36.56	67.78	-22.33	122.31
	40.76	352.56	152.39	271.10	-70.87	489.23
	82.13	675.73	294.08	519.61	-129.82	937.69
0.80	85.95	629.47	278.17	483.11	-106.26	873.65
	46.93	328.42	146.18	252.06	-52.31	455.82
	14.81	82.10	38.08	63.01	-8.47	113.95
	-109.47	-10.43	-84.02	-46.12	-151.94	25.26
	-246.31	-28.78	-189.04	-106.42	-341.86	48.87
	-328.42	-40.23	-252.06	-142.82	-455.82	62.36
	-355.79	-44.79	-273.06	-155.33	-493.80	65.74
	-355.79	-44.79	-273.06	-155.33	-493.80	65.74
	-328.42	-42.47	-252.06	-143.94	-455.82	59.01
	-246.31	-33.25	-189.04	-108.65	-341.86	42.16
	-109.47	-17.13	-84.02	-49.47	-151.94	15.20
	5.87	82.10	33.61	63.01	-21.87	113.95
	35.76	328.42	140.59	252.06	-69.07	455.82
	72.55	629.47	271.46	483.11	-126.37	873.65
0.85	73.50	584.65	254.21	446.89	-107.21	811.73
	40.43	305.03	133.67	233.16	-52.80	423.51
	13.18	76.26	34.95	58.29	-8.59	105.88

	-101.68	-8.26	-77.72	-41.95	-141.17	25.42
	-228.77	-23.90	-174.87	-97.04	-317.63	49.24
	-305.03	-33.73	-233.16	-130.32	-423.51	62.86
	-330.45	-37.75	-252.59	-141.79	-458.80	66.28
	-330.45	-37.75	-252.59	-141.79	-458.80	66.28
	-305.03	-35.97	-233.16	-131.44	-423.51	59.51
	-228.77	-28.37	-174.87	-99.28	-317.63	42.54
	-101.68	-14.97	-77.72	-45.30	-141.17	15.37
	4.24	76.26	30.49	58.29	-22.00	105.88
	29.26	305.03	128.09	233.16	-69.56	423.51
	60.09	584.65	247.50	446.89	-127.32	811.73
0.90	70.32	552.70	240.80	422.60	-100.17	767.35
	38.78	288.36	126.68	220.49	-49.13	400.36
	12.77	72.09	33.21	55.12	-7.67	100.09
	-96.12	-7.71	-73.50	-39.62	-133.45	24.20
	-216.27	-22.66	-165.36	-91.80	-300.27	46.48
	-288.36	-32.07	-220.49	-123.33	-400.36	59.18
	-312.39	-35.96	-238.86	-134.21	-433.72	62.30
	-312.39	-35.96	-238.86	-134.21	-433.72	62.30
	-288.36	-34.31	-220.49	-124.44	-400.36	55.83
	-216.27	-27.13	-165.36	-94.03	-300.27	39.78
	-96.12	-14.41	-73.50	-42.97	-133.45	14.14
	3.83	72.09	28.74	55.12	-21.08	100.09
	27.60	288.36	121.09	220.49	-65.89	400.36
	56.91	552.70	234.10	422.60	-120.28	767.35
0.95	65.86	522.50	227.20	399.25	-95.47	725.47
	36.45	272.61	119.58	208.30	-46.68	378.51
	12.19	68.15	31.43	52.08	-7.06	94.63
	-90.87	-6.94	-69.43	-37.25	-126.17	23.38
	-204.46	-20.91	-156.23	-86.47	-283.88	44.64
	-272.61	-29.75	-208.30	-116.23	-378.51	56.73
	-295.33	-33.44	-225.66	-126.52	-410.05	59.65
	-295.33	-33.44	-225.66	-126.52	-410.05	59.65
	-272.61	-31.98	-208.30	-117.35	-378.51	53.38
	-204.46	-25.38	-156.23	-88.71	-283.88	37.94
	-90.87	-13.64	-69.43	-40.61	-126.17	13.32
	3.25	68.15	26.96	52.08	-20.47	94.63
	25.28	272.61	114.00	208.30	-63.44	378.51
	52.46	522.50	220.49	399.25	-115.58	725.47
1.00	60.33	493.80	213.43	376.71	-92.77	685.72
	33.56	257.64	112.40	196.55	-45.27	357.77
	11.46	64.41	29.64	49.14	-6.71	89.44
	-85.88	-5.97	-65.52	-34.86	-119.26	22.91
	-193.23	-18.75	-147.41	-81.09	-268.33	43.59
	-257.64	-26.86	-196.55	-109.05	-357.77	55.32

	-279.11	-30.31	-212.92	-118.74	-387.58	58.12
	-279.11	-30.31	-212.92	-118.74	-387.58	58.12
	-257.64	-29.10	-196.55	-110.16	-357.77	51.97
	-193.23	-23.22	-147.41	-83.32	-268.33	36.88
	-85.88	-12.68	-65.52	-38.21	-119.26	12.86
	2.53	64.41	25.17	49.14	-20.12	89.44
	22.39	257.64	106.81	196.55	-62.03	357.77
	46.92	493.80	206.73	376.71	-112.88	685.72
1.05	58.24	470.75	203.89	359.24	-87.41	653.69
	32.47	245.61	107.42	187.43	-42.47	341.06
	11.19	61.40	28.39	46.86	-6.01	85.26
	-81.87	-5.61	-62.48	-33.20	-113.69	21.98
	-184.21	-17.93	-140.57	-77.35	-255.79	41.49
	-245.61	-25.77	-187.43	-104.07	-341.06	52.53
	-266.08	-29.13	-203.05	-113.35	-369.48	55.09
	-266.08	-29.13	-203.05	-113.35	-369.48	55.09
	-245.61	-28.00	-187.43	-105.19	-341.06	49.18
	-184.21	-22.40	-140.57	-79.59	-255.79	34.79
	-81.87	-12.31	-62.48	-36.55	-113.69	11.92
	2.25	61.40	23.92	46.86	-19.42	85.26
	21.30	245.61	101.83	187.43	-59.23	341.06
	44.83	470.75	197.18	359.24	-107.52	653.69
1.10	56.34	449.80	195.22	343.35	-82.53	624.58
	31.48	234.68	102.90	179.14	-39.93	325.87
	10.94	58.67	27.26	44.79	-5.37	81.47
	-78.23	-5.28	-59.71	-31.69	-108.62	21.13
	-176.01	-17.19	-134.36	-73.96	-244.40	39.58
	-234.68	-24.78	-179.14	-99.55	-325.87	49.98
	-254.23	-28.06	-194.07	-108.45	-353.03	52.33
	-254.23	-28.06	-194.07	-108.45	-353.03	52.33
	-234.68	-27.02	-179.14	-100.66	-325.87	46.63
	-176.01	-21.66	-134.36	-76.20	-244.40	32.88
	-78.23	-11.98	-59.71	-35.04	-108.62	11.07
	2.01	58.67	22.79	44.79	-18.78	81.47
	20.31	234.68	97.31	179.14	-56.69	325.87
	42.94	449.80	188.52	343.35	-102.65	624.58
1.15	51.83	427.89	184.53	326.08	-80.86	594.26
	29.13	223.25	97.32	170.13	-39.05	310.05
	10.36	55.81	25.87	42.53	-5.15	77.51
	-74.42	-4.50	-56.71	-29.83	-103.35	20.84
	-167.44	-15.43	-127.59	-69.78	-232.53	38.93
	-223.25	-22.43	-170.13	-93.97	-310.05	49.11
	-241.85	-25.51	-184.30	-102.40	-335.88	51.39
	-241.85	-25.51	-184.30	-102.40	-335.88	51.39
	-223.25	-24.66	-170.13	-95.09	-310.05	45.76

	-167.44	-19.89	-127.59	-72.01	-232.53	32.22
	-74.42	-11.20	-56.71	-33.18	-103.35	10.78
	1.42	55.81	21.40	42.53	-18.56	77.51
	17.96	223.25	91.73	170.13	-55.81	310.05
	38.43	427.89	177.82	326.08	-100.97	594.26
1.20	50.37	410.48	177.40	312.91	-76.65	570.06
	28.37	214.16	93.60	163.26	-36.86	297.42
	10.17	53.54	24.94	40.81	-4.61	74.36
	-71.39	-4.24	-54.42	-28.59	-99.14	20.11
	-160.62	-14.85	-122.44	-66.99	-223.07	37.28
	-214.16	-21.67	-163.26	-90.25	-297.42	46.91
	-232.01	-24.68	-176.86	-98.37	-322.21	49.01
	-232.01	-24.68	-176.86	-98.37	-322.21	49.01
	-214.16	-23.90	-163.26	-91.37	-297.42	43.56
	-160.62	-19.32	-122.44	-69.22	-223.07	30.58
	-71.39	-10.95	-54.42	-31.94	-99.14	10.05
	1.23	53.54	20.47	40.81	-18.01	74.36
	17.20	214.16	88.01	163.26	-53.62	297.42
	36.97	410.48	170.69	312.91	-96.76	570.06
1.25	47.85	393.28	169.66	299.61	-73.96	546.21
	27.05	205.19	89.56	156.32	-35.46	284.98
	9.84	51.30	23.93	39.08	-4.26	71.24
	-68.40	-3.80	-52.11	-27.25	-94.99	19.64
	-153.89	-13.87	-117.24	-63.96	-213.73	36.23
	-205.19	-20.35	-156.32	-86.21	-284.98	45.51
	-222.29	-23.26	-169.35	-94.00	-308.73	47.49
	-222.29	-23.26	-169.35	-94.00	-308.73	47.49
	-205.19	-22.58	-156.32	-87.33	-284.98	42.16
	-153.89	-18.33	-117.24	-66.19	-213.73	29.52
	-68.40	-10.51	-52.11	-30.60	-94.99	9.58
	0.90	51.30	19.46	39.08	-17.66	71.24
	15.88	205.19	83.98	156.32	-52.21	284.98
	34.44	393.28	162.95	299.61	-94.07	546.21
1.30	46.45	378.35	163.45	288.28	-70.54	525.45
	26.32	197.40	86.32	150.40	-33.67	274.15
	9.65	49.35	23.12	37.60	-3.81	68.54
	-65.80	-3.56	-50.13	-26.17	-91.38	19.04
	-148.05	-13.32	-112.80	-61.53	-205.61	34.89
	-197.40	-19.62	-150.40	-82.97	-274.15	43.73
	-213.85	-22.47	-162.94	-90.49	-296.99	45.56
	-213.85	-22.47	-162.94	-90.49	-296.99	45.56
	-197.40	-21.86	-150.40	-84.09	-274.15	40.38
	-148.05	-17.79	-112.80	-63.76	-205.61	28.19
	-65.80	-10.26	-50.13	-29.52	-91.38	8.99
	0.72	49.35	18.65	37.60	-17.22	68.54

	15.15	197.40	80.74	150.40	-50.43	274.15
	33.05	378.35	156.74	288.28	-90.65	525.45
1.35	45.35	364.70	157.89	277.97	-67.19	506.49
	25.75	190.28	83.42	145.03	-31.92	264.26
	9.51	47.57	22.39	36.26	-3.37	66.06
	-63.43	-3.37	-48.34	-25.20	-88.09	18.46
	-142.71	-12.89	-108.77	-59.35	-198.19	33.58
	-190.28	-19.05	-145.03	-80.07	-264.26	41.98
	-206.14	-21.84	-157.11	-87.35	-286.28	43.66
	-206.14	-21.84	-157.11	-87.35	-286.28	43.66
	-190.28	-21.28	-145.03	-81.19	-264.26	38.62
	-142.71	-17.36	-108.77	-61.59	-198.19	26.87
	-63.43	-10.07	-48.34	-28.55	-88.09	8.41
	0.57	47.57	17.92	36.26	-16.78	66.06
	14.58	190.28	77.84	145.03	-48.68	264.26
	31.95	364.70	151.19	277.97	-87.30	506.49
	1.40	41.24	348.95	149.64	265.31	-67.16
23.61		182.06	79.12	138.42	-31.91	252.90
8.97		45.52	21.32	34.61	-3.37	63.22
-60.69		-2.65	-46.14	-23.77	-84.30	18.46
-136.55		-11.28	-103.82	-56.13	-189.67	33.57
-182.06		-16.90	-138.42	-75.77	-252.90	41.96
-197.23		-19.52	-149.96	-82.69	-273.97	43.64
-197.23		-19.52	-149.96	-82.69	-273.97	43.64
-182.06		-19.14	-138.42	-76.88	-252.90	38.61
-136.55		-15.75	-103.82	-58.36	-189.67	26.86
-60.69		-9.36	-46.14	-27.12	-84.30	8.40
0.04		45.52	16.85	34.61	-16.77	63.22
12.43		182.06	73.53	138.42	-48.66	252.90
27.83		348.95	142.94	265.31	-87.27	484.72
1.45		40.39	337.26	144.94	256.51	-64.15
	23.16	175.96	76.66	133.83	-30.34	244.42
	8.86	43.99	20.70	33.46	-2.98	61.10
	-58.65	-2.51	-44.61	-22.95	-81.47	17.93
	-131.97	-10.95	-100.37	-54.29	-183.31	32.39
	-175.96	-16.46	-133.83	-73.31	-244.42	40.39
	-190.62	-19.04	-144.98	-80.03	-264.78	41.94
	-190.62	-19.04	-144.98	-80.03	-264.78	41.94
	-175.96	-18.69	-133.83	-74.43	-244.42	37.04
	-131.97	-15.42	-100.37	-56.52	-183.31	25.69
	-58.65	-9.21	-44.61	-26.30	-81.47	7.88
	-0.07	43.99	16.23	33.46	-16.38	61.10
	11.99	175.96	71.08	133.83	-47.10	244.42
26.98	337.26	138.23	256.51	-84.26	468.46	
1.50	39.60	326.35	140.55	248.29	-61.35	453.30

	22.75	170.27	74.38	129.54	-28.87	236.50
	8.76	42.57	20.13	32.39	-2.61	59.13
	-56.76	-2.37	-43.18	-22.18	-78.83	17.45
	-127.70	-10.64	-97.16	-52.57	-177.38	31.29
	-170.27	-16.05	-129.54	-71.02	-236.50	38.93
	-184.46	-18.59	-140.34	-77.55	-256.21	40.36
	-184.46	-18.59	-140.34	-77.55	-256.21	40.36
	-170.27	-18.28	-129.54	-72.14	-236.50	35.58
	-127.70	-15.11	-97.16	-54.80	-177.38	24.59
	-56.76	-9.07	-43.18	-25.54	-78.83	7.39
	-0.18	42.57	15.66	32.39	-16.02	59.13
	11.58	170.27	68.79	129.54	-45.63	236.50
	26.19	326.35	133.85	248.29	-81.46	453.30
1.55	38.86	316.15	136.45	240.60	-58.72	439.11
	22.37	164.95	72.24	125.53	-27.50	229.10
	8.66	41.24	19.60	31.38	-2.27	57.28
	-54.98	-2.24	-41.84	-21.47	-76.37	16.99
	-123.71	-10.35	-94.15	-50.96	-171.83	30.26
	-164.95	-15.66	-125.53	-68.88	-229.10	37.56
	-178.69	-18.18	-135.99	-75.23	-248.19	38.87
	-178.69	-18.18	-135.99	-75.23	-248.19	38.87
	-164.95	-17.90	-125.53	-70.00	-229.10	34.21
	-123.71	-14.82	-94.15	-53.20	-171.83	23.56
	-54.98	-8.95	-41.84	-24.82	-76.37	6.93
	-0.27	41.24	15.13	31.38	-15.67	57.28
	11.19	164.95	66.65	125.53	-44.26	229.10
25.46	316.15	129.75	240.60	-78.83	439.11	
1.60	37.86	306.26	132.29	233.08	-56.57	425.39
	21.84	159.79	70.06	121.61	-26.38	221.94
	8.53	39.95	19.05	30.40	-1.99	55.49
	-53.26	-2.07	-40.54	-20.75	-73.98	16.62
	-119.84	-9.96	-91.21	-49.34	-166.46	29.42
	-159.79	-15.14	-121.61	-66.71	-221.94	36.44
	-173.11	-17.61	-131.74	-72.88	-240.44	37.66
	-173.11	-17.61	-131.74	-72.88	-240.44	37.66
	-159.79	-17.37	-121.61	-67.83	-221.94	33.09
	-119.84	-14.43	-91.21	-51.57	-166.46	22.72
	-53.26	-8.77	-40.54	-24.10	-73.98	6.56
	-0.41	39.95	14.58	30.40	-15.39	55.49
	10.67	159.79	64.48	121.61	-43.14	221.94
24.45	306.26	125.59	233.08	-76.68	425.39	
1.65	37.22	297.29	128.69	226.33	-54.24	412.92
	21.51	155.11	68.19	118.08	-25.17	215.43
	8.45	38.78	18.58	29.52	-1.68	53.86
	-51.70	-1.96	-39.36	-20.12	-71.81	16.21

	-116.33	-9.71	-88.56	-47.93	-161.58	28.51
	-155.11	-14.81	-118.08	-64.84	-215.43	35.22
	-168.04	-17.25	-127.93	-70.84	-233.39	36.34
	-168.04	-17.25	-127.93	-70.84	-233.39	36.34
	-155.11	-17.04	-118.08	-65.95	-215.43	31.87
	-116.33	-14.18	-88.56	-50.16	-161.58	21.81
	-51.70	-8.66	-39.36	-23.47	-71.81	6.15
	-0.49	38.78	14.11	29.52	-15.09	53.86
	10.34	155.11	62.60	118.08	-41.93	215.43
	23.82	297.29	121.99	226.33	-74.35	412.92
1.70	36.63	288.85	125.31	219.97	-52.05	401.18
	21.20	150.70	66.42	114.77	-24.02	209.31
	8.37	37.68	18.14	28.69	-1.40	52.33
	-50.23	-1.85	-38.26	-19.53	-69.77	15.83
	-113.03	-9.47	-86.08	-46.60	-156.98	27.65
	-150.70	-14.50	-114.77	-63.07	-209.31	34.08
	-163.26	-16.91	-124.33	-68.93	-226.75	35.10
	-163.26	-16.91	-124.33	-68.93	-226.75	35.10
	-150.70	-16.73	-114.77	-64.19	-209.31	30.73
	-113.03	-13.94	-86.08	-48.84	-156.98	20.95
	-50.23	-8.56	-38.26	-22.89	-69.77	5.77
	-0.57	37.68	13.67	28.69	-14.80	52.33
	10.03	150.70	60.84	114.77	-40.78	209.31
	23.22	288.85	118.60	219.97	-72.16	401.18
1.75	34.61	279.44	120.66	212.53	-51.44	388.15
	20.15	145.79	64.00	110.89	-23.70	202.51
	8.11	36.45	17.54	27.72	-1.32	50.63
	-48.60	-1.50	-36.96	-18.73	-67.50	15.72
	-109.35	-8.69	-83.16	-44.79	-151.89	27.41
	-145.79	-13.44	-110.89	-60.65	-202.51	33.76
	-157.94	-15.78	-120.13	-66.31	-219.39	34.76
	-157.94	-15.78	-120.13	-66.31	-219.39	34.76
	-145.79	-15.68	-110.89	-61.76	-202.51	30.41
	-109.35	-13.16	-83.16	-47.02	-151.89	20.71
	-48.60	-8.21	-36.96	-22.08	-67.50	5.67
	-0.83	36.45	13.07	27.72	-14.72	50.63
	8.98	145.79	58.41	110.89	-40.46	202.51
	21.21	279.44	113.96	212.53	-71.55	388.15
1.80	34.13	271.97	117.69	206.92	-49.44	377.76
	19.89	141.90	62.45	107.96	-22.66	197.09
	8.05	35.47	17.15	26.99	-1.06	49.27
	-47.30	-1.42	-35.99	-18.21	-65.70	15.37
	-106.42	-8.50	-80.97	-43.63	-147.82	26.63
	-141.90	-13.19	-107.96	-59.10	-197.09	32.72
	-153.72	-15.50	-116.95	-64.63	-213.52	33.63

	-153.72	-15.50	-116.95	-64.63	-213.52	33.63
	-141.90	-15.43	-107.96	-60.22	-197.09	29.36
	-106.42	-12.97	-80.97	-45.86	-147.82	19.93
	-47.30	-8.12	-35.99	-21.56	-65.70	5.32
	-0.89	35.47	12.68	26.99	-14.46	49.27
	8.72	141.90	56.86	107.96	-39.42	197.09
	20.72	271.97	110.99	206.92	-69.55	377.76
1.85	33.67	264.90	114.89	201.61	-47.55	367.93
	19.66	138.21	60.98	105.19	-21.67	191.96
	7.99	34.55	16.78	26.30	-0.81	47.99
	-46.07	-1.34	-35.06	-17.72	-63.99	15.05
	-103.66	-8.32	-78.89	-42.53	-143.97	25.89
	-138.21	-12.95	-105.19	-57.63	-191.96	31.73
	-149.73	-15.24	-113.95	-63.04	-207.96	32.56
	-149.73	-15.24	-113.95	-63.04	-207.96	32.56
	-138.21	-15.19	-105.19	-58.75	-191.96	28.38
	-103.66	-12.79	-78.89	-44.76	-143.97	19.19
	-46.07	-8.04	-35.06	-21.07	-63.99	4.99
	-0.95	34.55	12.31	26.30	-14.22	47.99
	8.48	138.21	55.40	105.19	-38.43	191.96
	20.26	264.90	108.18	201.61	-67.66	367.93
1.90	33.24	258.20	112.23	196.58	-45.75	358.62
	19.43	134.72	59.60	102.56	-20.74	187.11
	7.93	33.68	16.44	25.64	-0.58	46.78
	-44.91	-1.26	-34.19	-17.26	-62.37	14.73
	-101.04	-8.15	-76.92	-41.49	-140.33	25.19
	-134.72	-12.73	-102.56	-56.25	-187.11	30.79
	-145.94	-15.00	-111.11	-61.54	-202.70	31.54
	-145.94	-15.00	-111.11	-61.54	-202.70	31.54
	-134.72	-14.96	-102.56	-57.36	-187.11	27.44
	-101.04	-12.62	-76.92	-43.72	-140.33	18.49
	-44.91	-7.97	-34.19	-20.61	-62.37	4.68
	-1.01	33.68	11.97	25.64	-13.98	46.78
	8.26	134.72	54.01	102.56	-37.50	187.11
	19.83	258.20	105.52	196.58	-65.87	358.62
1.95	32.83	251.86	109.71	191.81	-44.05	349.79
	19.22	131.40	58.28	100.07	-19.85	182.50
	7.88	32.85	16.11	25.02	-0.35	45.63
	-43.80	-1.19	-33.36	-16.82	-60.83	14.44
	-98.55	-7.99	-75.06	-40.50	-136.88	24.52
	-131.40	-12.51	-100.07	-54.93	-182.50	29.91
	-142.35	-14.77	-108.41	-60.11	-197.71	30.58
	-142.35	-14.77	-108.41	-60.11	-197.71	30.58
	-131.40	-14.75	-100.07	-56.05	-182.50	26.55
	-98.55	-12.46	-75.06	-42.73	-136.88	17.82

	-43.80	-7.90	-33.36	-20.17	-60.83	4.38
	-1.06	32.85	11.64	25.02	-13.76	45.63
	8.04	131.40	52.70	100.07	-36.61	182.50
	19.42	251.86	103.00	191.81	-64.16	349.79
2.00	32.44	245.83	107.31	187.28	-42.43	341.41
	19.01	128.26	57.03	97.71	-19.01	178.13
	7.83	32.06	15.79	24.43	-0.14	44.53
	-42.75	-1.12	-32.57	-16.40	-59.38	14.16
	-96.19	-7.84	-73.28	-39.56	-133.59	23.89
	-128.26	-12.31	-97.71	-53.68	-178.13	29.06
	-138.94	-14.55	-105.85	-58.76	-192.97	29.67
	-138.94	-14.55	-105.85	-58.76	-192.97	29.67
	-128.26	-14.55	-97.71	-54.80	-178.13	25.71
	-96.19	-12.31	-73.28	-41.80	-133.59	17.19
	-42.75	-7.83	-32.57	-19.76	-59.38	4.10
	-1.11	32.06	11.33	24.43	-13.55	44.53
	7.84	128.26	51.45	97.71	-35.76	178.13
	19.03	245.83	100.61	187.28	-62.54	341.41
	32.07	240.09	105.04	182.97	-40.89	333.43
	2.05	18.82	125.26	55.85	95.46	-18.20
7.78		31.32	15.50	23.87	0.06	43.49
-41.75		-1.06	-31.82	-16.01	-57.99	13.89
-93.95		-7.69	-71.60	-38.67	-130.47	23.29
-125.26		-12.12	-95.46	-52.50	-173.97	28.26
-135.70		-14.34	-103.42	-57.48	-188.46	28.80
-135.70		-14.34	-103.42	-57.48	-188.46	28.80
-125.26		-14.35	-95.46	-53.61	-173.97	24.91
-93.95		-12.16	-71.60	-40.91	-130.47	16.58
-41.75		-7.76	-31.82	-19.36	-57.99	3.83
-1.16		31.32	11.03	23.87	-13.35	43.49
7.65		125.26	50.26	95.46	-34.96	173.97
18.67		240.09	98.34	182.97	-61.00	333.43
2.10		31.73	234.63	102.88	178.87	-39.42
	18.64	122.42	54.72	93.32	-17.44	170.00
	7.73	30.60	15.22	23.33	0.25	42.50
	-40.81	-1.00	-31.11	-15.63	-56.67	13.63
	-91.81	-7.56	-69.99	-37.83	-127.50	22.71
	-122.42	-11.94	-93.32	-51.37	-170.00	27.49
	-132.62	-14.14	-101.10	-56.25	-184.17	27.97
	-132.62	-14.14	-101.10	-56.25	-184.17	27.97
	-122.42	-14.17	-93.32	-52.48	-170.00	24.14
	-91.81	-12.03	-69.99	-40.06	-127.50	16.01
	-40.81	-7.70	-31.11	-18.98	-56.67	3.58
	-1.21	30.60	10.75	23.33	-13.16	42.50
	7.47	122.42	49.13	93.32	-34.19	170.00

	18.32	234.63	96.17	178.87	-59.53	325.84
2.15	31.40	229.42	100.81	174.96	-38.02	318.60
	18.47	119.70	53.64	91.29	-16.70	166.23
	7.69	29.92	14.95	22.82	0.43	41.56
	-39.90	-0.94	-30.43	-15.27	-55.41	13.39
	-89.77	-7.43	-68.46	-37.02	-124.67	22.16
	-119.70	-11.77	-91.29	-50.29	-166.23	26.76
	-129.67	-13.96	-98.89	-55.09	-180.08	27.17
	-129.67	-13.96	-98.89	-55.09	-180.08	27.17
	-119.70	-14.00	-91.29	-51.41	-166.23	23.41
	-89.77	-11.90	-68.46	-39.25	-124.67	15.46
	-39.90	-7.65	-30.43	-18.63	-55.41	3.33
	-1.25	29.92	10.48	22.82	-12.97	41.56
	7.30	119.70	48.06	91.29	-33.46	166.23
	17.99	229.42	94.11	174.96	-58.13	318.60
2.20	31.08	224.46	98.84	171.23	-36.68	311.69
	18.30	117.11	52.61	89.34	-16.01	162.62
	7.65	29.28	14.69	22.33	0.61	40.66
	-39.04	-0.89	-29.78	-14.93	-54.21	13.16
	-87.83	-7.30	-67.00	-36.25	-121.97	21.64
	-117.11	-11.60	-89.34	-49.26	-162.62	26.06
	-126.87	-13.78	-96.78	-53.97	-176.18	26.42
	-126.87	-13.78	-96.78	-53.97	-176.18	26.42
	-117.11	-13.84	-89.34	-50.38	-162.62	22.71
	-87.83	-11.77	-67.00	-38.48	-121.97	14.94
	-39.04	-7.59	-29.78	-18.28	-54.21	3.10
	-1.29	29.28	10.22	22.33	-12.80	40.66
	7.13	117.11	47.03	89.34	-32.76	162.62
	17.67	224.46	92.14	171.23	-56.79	311.69
2.25	30.78	219.71	96.96	167.67	-35.40	305.10
	18.15	114.63	51.63	87.48	-15.34	159.18
	7.61	28.66	14.44	21.87	0.77	39.80
	-38.21	-0.84	-29.16	-14.60	-53.06	12.93
	-85.97	-7.19	-65.61	-35.51	-119.39	21.14
	-114.63	-11.45	-87.48	-48.28	-159.18	25.39
	-124.18	-13.61	-94.77	-52.91	-172.45	25.69
	-124.18	-13.61	-94.77	-52.91	-172.45	25.69
	-114.63	-13.68	-87.48	-49.40	-159.18	22.04
	-85.97	-11.66	-65.61	-37.75	-119.39	14.44
	-38.21	-7.54	-29.16	-17.96	-53.06	2.88
	-1.33	28.66	9.98	21.87	-12.63	39.80
	6.98	114.63	46.05	87.48	-32.10	159.18
	17.37	219.71	90.26	167.67	-55.51	305.10
2.30	30.50	215.17	95.17	164.26	-34.17	298.78
	18.00	112.26	50.70	85.70	-14.70	155.89

	7.57	28.07	14.21	21.43	0.93	38.97
	-37.42	-0.79	-28.57	-14.29	-51.96	12.72
	-84.20	-7.08	-64.28	-34.81	-116.92	20.66
	-112.26	-11.30	-85.70	-47.34	-155.89	24.75
	-121.62	-13.45	-92.85	-51.90	-168.88	25.00
	-121.62	-13.45	-92.85	-51.90	-168.88	25.00
	-112.26	-13.53	-85.70	-48.46	-155.89	21.40
	-84.20	-11.54	-64.28	-37.04	-116.92	13.96
	-37.42	-7.49	-28.57	-17.64	-51.96	2.66
	-1.37	28.07	9.74	21.43	-12.47	38.97
	6.83	112.26	45.11	85.70	-31.46	155.89
	17.09	215.17	88.46	164.26	-54.29	298.78
	30.22	210.83	93.45	161.00	-33.00	292.74
	17.86	110.00	49.80	84.00	-14.08	152.74
	7.54	27.50	13.99	21.00	1.09	38.18
	-36.67	-0.74	-28.00	-13.99	-50.91	12.52
	-82.50	-6.97	-63.00	-34.14	-114.55	20.20
	-110.00	-11.15	-84.00	-46.45	-152.74	24.14
	-119.16	-13.29	-91.00	-50.92	-165.46	24.34
	-119.16	-13.29	-91.00	-50.92	-165.46	24.34
	-110.00	-13.39	-84.00	-47.56	-152.74	20.79
	-82.50	-11.44	-63.00	-36.37	-114.55	13.50
	-36.67	-7.44	-28.00	-17.34	-50.91	2.46
	-1.40	27.50	9.52	21.00	-12.32	38.18
	6.69	110.00	44.21	84.00	-30.84	152.74
	16.82	210.83	86.74	161.00	-53.11	292.74
	29.96	206.67	91.80	157.88	-31.87	286.95
	17.72	107.83	48.94	82.37	-13.50	149.72
	7.50	26.96	13.77	20.59	1.23	37.43
	-35.94	-0.69	-27.46	-13.71	-49.91	12.32
	-80.87	-6.87	-61.78	-33.49	-112.29	19.76
	-107.83	-11.02	-82.37	-45.59	-149.72	23.55
	-116.81	-13.15	-89.24	-49.99	-162.19	23.70
	-116.81	-13.15	-89.24	-49.99	-162.19	23.70
	-107.83	-13.25	-82.37	-46.71	-149.72	20.20
	-80.87	-11.34	-61.78	-35.73	-112.29	13.06
	-35.94	-7.40	-27.46	-17.06	-49.91	2.26
	-1.44	26.96	9.30	20.59	-12.17	37.43
	6.55	107.83	43.35	82.37	-30.26	149.72
	16.56	206.67	85.10	157.88	-51.98	286.95
	29.71	202.67	90.22	154.88	-30.79	281.40
	17.59	105.74	48.12	80.81	-12.93	146.82
	7.47	26.44	13.57	20.20	1.38	36.70
	-35.25	-0.65	-26.94	-13.43	-48.94	12.13
	-79.31	-6.77	-60.61	-32.88	-110.11	19.34

	-105.74	-10.89	-80.81	-44.76	-146.82	22.99
	-114.56	-13.01	-87.54	-49.10	-159.05	23.09
	-114.56	-13.01	-87.54	-49.10	-159.05	23.09
	-105.74	-13.12	-80.81	-45.88	-146.82	19.64
	-79.31	-11.24	-60.61	-35.11	-110.11	12.63
	-35.25	-7.35	-26.94	-16.78	-48.94	2.08
	-1.47	26.44	9.10	20.20	-12.03	36.70
	6.42	105.74	42.53	80.81	-29.69	146.82
	16.31	202.67	83.52	154.88	-50.90	281.40
2.50	29.48	198.84	88.71	152.01	-29.75	276.08
	17.47	103.74	47.33	79.31	-12.39	144.04
	7.44	25.94	13.37	19.83	1.51	36.01
	-34.58	-0.61	-26.44	-13.17	-48.01	11.95
	-77.81	-6.68	-59.48	-32.28	-108.03	18.93
	-103.74	-10.76	-79.31	-43.97	-144.04	22.45
	-112.39	-12.87	-85.92	-48.24	-156.04	22.50
	-112.39	-12.87	-85.92	-48.24	-156.04	22.50
	-103.74	-13.00	-79.31	-45.09	-144.04	19.09
	-77.81	-11.15	-59.48	-34.52	-108.03	12.23
	-34.58	-7.31	-26.44	-16.52	-48.01	1.90
	-1.50	25.94	8.90	19.83	-11.90	36.01
	6.30	103.74	41.74	79.31	-29.15	144.04
	16.07	198.84	82.00	152.01	-49.86	276.08
2.55	29.25	195.16	87.25	149.25	-28.75	270.96
	17.35	101.82	46.57	77.87	-11.87	141.37
	7.41	25.46	13.18	19.47	1.64	35.34
	-33.94	-0.57	-25.96	-12.92	-47.12	11.78
	-76.37	-6.59	-58.40	-31.71	-106.03	18.54
	-101.82	-10.65	-77.87	-43.21	-141.37	21.92
	-110.31	-12.74	-84.36	-47.42	-153.15	21.94
	-110.31	-12.74	-84.36	-47.42	-153.15	21.94
	-101.82	-12.88	-77.87	-44.33	-141.37	18.57
	-76.37	-11.06	-58.40	-33.95	-106.03	11.83
	-33.94	-7.27	-25.96	-16.27	-47.12	1.72
	-1.53	25.46	8.71	19.47	-11.77	35.34
	6.18	101.82	40.98	77.87	-28.63	141.37
15.84	195.16	80.55	149.25	-48.86	270.96	
2.60	29.03	191.63	85.85	146.59	-27.79	266.04
	17.24	99.98	45.84	76.48	-11.37	138.80
	7.38	24.99	13.00	19.12	1.77	34.70
	-33.33	-0.53	-25.49	-12.67	-46.27	11.61
	-74.98	-6.50	-57.36	-31.17	-104.10	18.16
	-99.98	-10.53	-76.48	-42.49	-138.80	21.42
	-108.31	-12.62	-82.86	-46.63	-150.37	21.39
	-108.31	-12.62	-82.86	-46.63	-150.37	21.39

	-99.98	-12.77	-76.48	-43.60	-138.80	18.07
	-74.98	-10.97	-57.36	-33.40	-104.10	11.46
	-33.33	-7.23	-25.49	-16.02	-46.27	1.55
	-1.56	24.99	8.53	19.12	-11.64	34.70
	6.06	99.98	40.25	76.48	-28.13	138.80
	15.62	191.63	79.15	146.59	-47.90	266.04
2.65	28.82	188.22	84.51	144.04	-26.87	261.30
	17.13	98.20	45.14	75.15	-10.88	136.33
	7.35	24.55	12.82	18.79	1.89	34.08
	-32.73	-0.49	-25.05	-12.44	-45.44	11.45
	-73.65	-6.42	-56.36	-30.64	-102.25	17.80
	-98.20	-10.42	-75.15	-41.78	-136.33	20.94
	-106.39	-12.50	-81.41	-45.87	-147.69	20.87
	-106.39	-12.50	-81.41	-45.87	-147.69	20.87
	-98.20	-12.66	-75.15	-42.90	-136.33	17.59
	-73.65	-10.89	-56.36	-32.87	-102.25	11.10
	-32.73	-7.20	-25.05	-15.79	-45.44	1.39
	-1.58	24.55	8.35	18.79	-11.52	34.08
	5.95	98.20	39.55	75.15	-27.64	136.33
	15.41	188.22	77.80	144.04	-46.98	261.30
2.70	28.62	184.94	83.21	141.58	-25.97	256.75
	17.02	96.49	44.46	73.87	-10.42	133.95
	7.33	24.12	12.65	18.47	2.00	33.49
	-32.16	-0.46	-24.62	-12.21	-44.65	11.29
	-72.37	-6.34	-55.40	-30.13	-100.47	17.45
	-96.49	-10.32	-73.87	-41.11	-133.95	20.47
	-104.53	-12.39	-80.02	-45.14	-145.12	20.36
	-104.53	-12.39	-80.02	-45.14	-145.12	20.36
	-96.49	-12.55	-73.87	-42.23	-133.95	17.12
	-72.37	-10.81	-55.40	-32.37	-100.47	10.75
	-32.16	-7.16	-24.62	-15.56	-44.65	1.24
	-1.61	24.12	8.18	18.47	-11.40	33.49
	5.85	96.49	38.87	73.87	-27.18	133.95
	15.21	184.94	76.51	141.58	-46.08	256.75
2.75	28.43	181.79	81.97	139.21	-25.11	252.35
	16.92	94.85	43.81	72.63	-9.97	131.66
	7.30	23.71	12.49	18.16	2.12	32.92
	-31.62	-0.43	-24.21	-12.00	-43.89	11.14
	-71.13	-6.27	-54.47	-29.65	-98.75	17.11
	-94.85	-10.22	-72.63	-40.46	-131.66	20.02
	-102.75	-12.28	-78.68	-44.43	-142.64	19.88
	-102.75	-12.28	-78.68	-44.43	-142.64	19.88
	-94.85	-12.45	-72.63	-41.58	-131.66	16.67
	-71.13	-10.73	-54.47	-31.88	-98.75	10.41
	-31.62	-7.13	-24.21	-15.35	-43.89	1.09

	-1.64	23.71	8.02	18.16	-11.29	32.92
	5.75	94.85	38.22	72.63	-26.73	131.66
	15.02	181.79	75.26	139.21	-45.22	252.35
2.80	28.24	178.74	80.77	136.93	-24.28	248.12
	16.82	93.26	43.18	71.44	-9.54	129.45
	7.28	23.31	12.33	17.86	2.22	32.36
	-31.09	-0.39	-23.81	-11.79	-43.15	11.00
	-69.94	-6.19	-53.58	-29.17	-97.09	16.79
	-93.26	-10.12	-71.44	-39.83	-129.45	19.59
	-101.03	-12.17	-77.39	-43.76	-140.24	19.41
	-101.03	-12.17	-77.39	-43.76	-140.24	19.41
	-93.26	-12.35	-71.44	-40.95	-129.45	16.24
	-69.94	-10.66	-53.58	-31.41	-97.09	10.08
	-31.09	-7.10	-23.81	-15.14	-43.15	0.94
	-1.66	23.31	7.86	17.86	-11.18	32.36
	5.65	93.26	37.60	71.44	-26.29	129.45
	14.83	178.74	74.06	136.93	-44.39	248.12
	2.85	28.06	175.81	79.61	134.72	-23.48
16.73		91.73	42.58	70.29	-9.12	127.32
7.25		22.93	12.18	17.57	2.33	31.83
-30.58		-0.36	-23.43	-11.59	-42.44	10.86
-68.79		-6.12	-52.72	-28.72	-95.49	16.47
-91.73		-10.03	-70.29	-39.23	-127.32	19.17
-99.37		-12.07	-76.15	-43.10	-137.93	18.96
-99.37		-12.07	-76.15	-43.10	-137.93	18.96
-91.73		-12.26	-70.29	-40.34	-127.32	15.82
-68.79		-10.59	-52.72	-30.96	-95.49	9.77
-30.58		-7.07	-23.43	-14.94	-42.44	0.80
-1.68		22.93	7.71	17.57	-11.08	31.83
5.56		91.73	36.99	70.29	-25.88	127.32
14.66		175.81	72.90	134.72	-43.59	244.04
2.90		27.89	172.97	78.49	132.60	-22.71
	16.64	90.25	41.99	69.18	-8.71	125.27
	7.23	22.56	12.03	17.30	2.43	31.32
	-30.08	-0.33	-23.06	-11.39	-41.76	10.73
	-67.68	-6.06	-51.89	-28.28	-93.95	16.17
	-90.25	-9.94	-69.18	-38.64	-125.27	18.77
	-97.77	-11.98	-74.95	-42.47	-135.71	18.52
	-97.77	-11.98	-74.95	-42.47	-135.71	18.52
	-90.25	-12.17	-69.18	-39.76	-125.27	15.42
	-67.68	-10.53	-51.89	-30.52	-93.95	9.47
	-30.08	-7.04	-23.06	-14.74	-41.76	0.67
	-1.71	22.56	7.57	17.30	-10.98	31.32
	5.47	90.25	36.41	69.18	-25.47	125.27
	14.48	172.97	71.78	132.60	-42.82	240.10

2.95	27.73	170.23	77.41	130.54	-21.96	236.29
	16.55	88.82	41.43	68.11	-8.32	123.28
	7.21	22.20	11.89	17.03	2.53	30.82
	-29.61	-0.30	-22.70	-11.20	-41.09	10.60
	-66.61	-5.99	-51.08	-27.86	-92.46	15.88
	-88.82	-9.85	-68.11	-38.08	-123.28	18.38
	-96.22	-11.88	-73.78	-41.86	-133.55	18.09
	-96.22	-11.88	-73.78	-41.86	-133.55	18.09
	-88.82	-12.09	-68.11	-39.20	-123.28	15.03
	-66.61	-10.46	-51.08	-30.10	-92.46	9.18
	-29.61	-7.01	-22.70	-14.56	-41.09	0.54
	-1.73	22.20	7.42	17.03	-10.88	30.82
	5.38	88.82	35.84	68.11	-25.08	123.28
	14.32	170.23	70.70	130.54	-42.07	236.29
3.00	27.57	167.59	76.36	128.56	-21.23	232.61
	16.47	87.44	40.89	67.07	-7.95	121.36
	7.19	21.86	11.76	16.77	2.62	30.34
	-29.15	-0.28	-22.36	-11.02	-40.45	10.47
	-65.58	-5.93	-50.30	-27.45	-91.02	15.60
	-87.44	-9.77	-67.07	-37.53	-121.36	18.00
	-94.72	-11.79	-72.66	-41.27	-131.47	17.68
	-94.72	-11.79	-72.66	-41.27	-131.47	17.68
	-87.44	-12.00	-67.07	-38.65	-121.36	14.65
	-65.58	-10.40	-50.30	-29.69	-91.02	8.89
	-29.15	-6.98	-22.36	-14.37	-40.45	0.41
	-1.75	21.86	7.29	16.77	-10.78	30.34
	5.30	87.44	35.30	67.07	-24.70	121.36
	14.16	167.59	69.66	128.56	-41.34	232.61
3.05	27.41	165.03	75.36	126.64	-20.53	229.05
	16.39	86.10	40.36	66.07	-7.58	119.50
	7.17	21.53	11.63	16.52	2.71	29.88
	-28.70	-0.25	-22.02	-10.85	-39.83	10.35
	-64.58	-5.87	-49.55	-27.06	-89.63	15.32
	-86.10	-9.69	-66.07	-37.01	-119.50	17.63
	-93.28	-11.70	-71.58	-40.70	-129.46	17.29
	-93.28	-11.70	-71.58	-40.70	-129.46	17.29
	-86.10	-11.92	-66.07	-38.13	-119.50	14.28
	-64.58	-10.34	-49.55	-29.29	-89.63	8.62
	-28.70	-6.95	-22.02	-14.20	-39.83	0.29
	-1.77	21.53	7.16	16.52	-10.69	29.88
	5.22	86.10	34.77	66.07	-24.34	119.50
	14.00	165.03	68.65	126.64	-40.64	229.05
3.10	27.26	162.55	74.38	124.78	-19.85	225.60
	16.31	84.81	39.85	65.10	-7.23	117.71
	7.15	21.20	11.50	16.28	2.80	29.43

	-28.27	-0.22	-21.70	-10.68	-39.24	10.23
	-63.61	-5.81	-48.83	-26.68	-88.28	15.06
	-84.81	-9.61	-65.10	-36.50	-117.71	17.28
	-91.88	-11.62	-70.53	-40.15	-127.51	16.91
	-91.88	-11.62	-70.53	-40.15	-127.51	16.91
	-84.81	-11.84	-65.10	-37.62	-117.71	13.93
	-63.61	-10.28	-48.83	-28.91	-88.28	8.35
	-28.27	-6.93	-21.70	-14.03	-39.24	0.17
	-1.79	21.20	7.03	16.28	-10.60	29.43
	5.14	84.81	34.26	65.10	-23.98	117.71
	13.86	162.55	67.68	124.78	-39.96	225.60
3.15	27.12	160.15	73.44	122.98	-19.20	222.27
	16.24	83.56	39.36	64.16	-6.88	115.97
	7.13	20.89	11.38	16.04	2.89	28.99
	-27.85	-0.20	-21.39	-10.51	-38.66	10.11
	-62.67	-5.75	-48.12	-26.31	-86.97	14.80
	-83.56	-9.53	-64.16	-36.01	-115.97	16.94
	-90.52	-11.54	-69.51	-39.61	-125.63	16.53
	-90.52	-11.54	-69.51	-39.61	-125.63	16.53
	-83.56	-11.77	-64.16	-37.12	-115.97	13.59
	-62.67	-10.22	-48.12	-28.54	-86.97	8.09
	-27.85	-6.90	-21.39	-13.86	-38.66	0.06
	-1.81	20.89	6.91	16.04	-10.52	28.99
	5.07	83.56	33.77	64.16	-23.64	115.97
	13.71	160.15	66.73	122.98	-39.31	222.27
3.20	26.98	157.83	72.52	121.24	-18.56	219.04
	16.17	82.35	38.88	63.26	-6.55	114.28
	7.11	20.59	11.26	15.81	2.97	28.57
	-27.45	-0.17	-21.09	-10.35	-38.09	10.00
	-61.76	-5.70	-47.44	-25.95	-85.71	14.55
	-82.35	-9.46	-63.26	-35.53	-114.28	16.60
	-89.21	-11.46	-68.53	-39.10	-123.80	16.17
	-89.21	-11.46	-68.53	-39.10	-123.80	16.17
	-82.35	-11.70	-63.26	-36.65	-114.28	13.25
	-61.76	-10.17	-47.44	-28.18	-85.71	7.84
	-27.45	-6.88	-21.09	-13.71	-38.09	-0.05
	-1.82	20.59	6.79	15.81	-10.44	28.57
	4.99	82.35	33.29	63.26	-23.31	114.28
	13.57	157.83	65.82	121.24	-38.67	219.04
3.25	26.85	155.58	71.63	119.55	-17.94	215.91
	16.10	81.17	38.42	62.38	-6.23	112.65
	7.10	20.29	11.14	15.59	3.05	28.16
	-27.06	-0.15	-20.79	-10.20	-37.55	9.90
	-60.88	-5.65	-46.78	-25.60	-84.49	14.31
	-81.17	-9.39	-62.38	-35.07	-112.65	16.28

	-87.94	-11.39	-67.57	-38.59	-122.04	15.82
	-87.94	-11.39	-67.57	-38.59	-122.04	15.82
	-81.17	-11.63	-62.38	-36.18	-112.65	12.93
	-60.88	-10.12	-46.78	-27.84	-84.49	7.60
	-27.06	-6.85	-20.79	-13.55	-37.55	-0.16
	-1.84	20.29	6.67	15.59	-10.36	28.16
	4.92	81.17	32.83	62.38	-22.99	112.65
	13.44	155.58	64.93	119.55	-38.05	215.91
3.30	26.72	153.40	70.78	117.92	-17.34	212.88
	16.03	80.04	37.97	61.52	-5.91	111.07
	7.08	20.01	11.03	15.38	3.13	27.77
	-26.68	-0.13	-20.51	-10.05	-37.02	9.79
	-60.03	-5.60	-46.14	-25.27	-83.30	14.07
	-80.04	-9.32	-61.52	-34.62	-111.07	15.97
	-86.70	-11.31	-66.65	-38.11	-120.32	15.48
	-86.70	-11.31	-66.65	-38.11	-120.32	15.48
	-80.04	-11.56	-61.52	-35.74	-111.07	12.62
	-60.03	-10.07	-46.14	-27.50	-83.30	7.37
	-26.68	-6.83	-20.51	-13.40	-37.02	-0.26
	-1.86	20.01	6.56	15.38	-10.28	27.77
	4.86	80.04	32.38	61.52	-22.67	111.07
	13.31	153.40	64.07	117.92	-37.45	212.88
3.35	26.59	151.28	69.94	116.33	-16.76	209.93
	15.96	78.93	37.54	60.70	-5.61	109.53
	7.06	19.73	10.92	15.17	3.21	27.38
	-26.31	-0.11	-20.23	-9.91	-36.51	9.69
	-59.20	-5.55	-45.52	-24.94	-82.15	13.84
	-78.93	-9.26	-60.70	-34.18	-109.53	15.67
	-85.51	-11.24	-65.75	-37.64	-118.66	15.16
	-85.51	-11.24	-65.75	-37.64	-118.66	15.16
	-78.93	-11.49	-60.70	-35.30	-109.53	12.31
	-59.20	-10.02	-45.52	-27.17	-82.15	7.14
	-26.31	-6.81	-20.23	-13.26	-36.51	-0.36
	-1.87	19.73	6.45	15.17	-10.20	27.38
	4.79	78.93	31.95	60.70	-22.37	109.53
	13.19	151.28	63.24	116.33	-36.87	209.93
3.40	26.47	149.23	69.13	114.79	-16.19	207.08
	15.90	77.86	37.11	59.89	-5.32	108.04
	7.05	19.46	10.81	14.97	3.28	27.01
	-25.95	-0.09	-19.96	-9.76	-36.01	9.59
	-58.39	-5.50	-44.92	-24.62	-81.03	13.62
	-77.86	-9.20	-59.89	-33.76	-108.04	15.37
	-84.35	-11.17	-64.88	-37.18	-117.04	14.84
	-84.35	-11.17	-64.88	-37.18	-117.04	14.84
	-77.86	-11.43	-59.89	-34.88	-108.04	12.02

	-58.39	-9.97	-44.92	-26.86	-81.03	6.92
	-25.95	-6.79	-19.96	-13.12	-36.01	-0.46
	-1.89	19.46	6.35	14.97	-10.13	27.01
	4.73	77.86	31.53	59.89	-22.07	108.04
	13.06	149.23	62.43	114.79	-36.30	207.08
3.45	26.35	147.24	68.35	113.30	-15.64	204.30
	15.84	76.82	36.71	59.11	-5.03	106.59
	7.03	19.20	10.71	14.78	3.35	26.65
	-25.61	-0.07	-19.70	-9.63	-35.53	9.50
	-57.61	-5.45	-44.33	-24.32	-79.94	13.41
	-76.82	-9.13	-59.11	-33.35	-106.59	15.08
	-83.22	-11.11	-64.04	-36.74	-115.48	14.53
	-83.22	-11.11	-64.04	-36.74	-115.48	14.53
	-76.82	-11.37	-59.11	-34.47	-106.59	11.73
	-57.61	-9.92	-44.33	-26.55	-79.94	6.70
	-25.61	-6.77	-19.70	-12.98	-35.53	-0.56
	-1.91	19.20	6.24	14.78	-10.06	26.65
	4.67	76.82	31.12	59.11	-21.79	106.59
	12.95	147.24	61.65	113.30	-35.75	204.30
3.50	26.24	145.30	67.59	111.85	-15.11	201.61
	15.78	75.81	36.31	58.35	-4.75	105.19
	7.02	18.95	10.61	14.59	3.42	26.30
	-25.27	-0.05	-19.45	-9.50	-35.06	9.40
	-56.86	-5.41	-43.77	-24.02	-78.89	13.20
	-75.81	-9.08	-58.35	-32.96	-105.19	14.81
	-82.13	-11.04	-63.22	-36.31	-113.95	14.22
	-82.13	-11.04	-63.22	-36.31	-113.95	14.22
	-75.81	-11.31	-58.35	-34.07	-105.19	11.45
	-56.86	-9.88	-43.77	-26.25	-78.89	6.50
	-25.27	-6.75	-19.45	-12.85	-35.06	-0.65
	-1.92	18.95	6.14	14.59	-9.99	26.30
	4.61	75.81	30.72	58.35	-21.51	105.19
	12.83	145.30	60.88	111.85	-35.22	201.61
3.55	26.13	143.42	66.85	110.44	-14.59	198.99
	15.72	74.83	35.92	57.62	-4.48	103.82
	7.00	18.71	10.52	14.40	3.49	25.96
	-24.94	-0.03	-19.21	-9.37	-34.61	9.31
	-56.12	-5.37	-43.21	-23.73	-77.87	13.00
	-74.83	-9.02	-57.62	-32.57	-103.82	14.53
	-81.06	-10.98	-62.42	-35.89	-112.47	13.93
	-81.06	-10.98	-62.42	-35.89	-112.47	13.93
	-74.83	-11.25	-57.62	-33.69	-103.82	11.18
	-56.12	-9.84	-43.21	-25.96	-77.87	6.29
	-24.94	-6.73	-19.21	-12.72	-34.61	-0.74
	-1.94	18.71	6.05	14.40	-9.92	25.96

	4.55	74.83	30.34	57.62	-21.24	103.82
	12.72	143.42	60.14	110.44	-34.70	198.99
3.60	26.02	141.59	66.13	109.06	-14.08	196.45
	15.67	73.87	35.55	56.90	-4.22	102.50
	6.99	18.47	10.42	14.23	3.55	25.62
	-24.62	-0.01	-18.97	-9.24	-34.17	9.23
	-55.40	-5.32	-42.68	-23.45	-76.87	12.80
	-73.87	-8.96	-56.90	-32.19	-102.50	14.27
	-80.03	-10.92	-61.65	-35.48	-111.04	13.64
	-80.03	-10.92	-61.65	-35.48	-111.04	13.64
	-73.87	-11.20	-56.90	-33.31	-102.50	10.92
	-55.40	-9.79	-42.68	-25.68	-76.87	6.09
	-24.62	-6.71	-18.97	-12.59	-34.17	-0.83
	-1.95	18.47	5.95	14.23	-9.85	25.62
	4.49	73.87	29.96	56.90	-20.97	102.50
	12.62	141.59	59.43	109.06	-34.20	196.45
	3.65	25.92	139.81	65.43	107.73	-13.59
15.61		72.94	35.18	56.21	-3.96	101.20
6.98		18.24	10.33	14.05	3.62	25.30
-24.31		0.01	-18.74	-9.12	-33.73	9.14
-54.71		-5.28	-42.16	-23.17	-75.90	12.61
-72.94		-8.91	-56.21	-31.83	-101.20	14.01
-79.02		-10.86	-60.89	-35.09	-109.64	13.37
-79.02		-10.86	-60.89	-35.09	-109.64	13.37
-72.94		-11.14	-56.21	-32.95	-101.20	10.66
-54.71		-9.75	-42.16	-25.41	-75.90	5.90
-24.31		-6.69	-18.74	-12.47	-33.73	-0.91
-1.96		18.24	5.86	14.05	-9.79	25.30
4.44		72.94	29.60	56.21	-20.72	101.20
12.51		139.81	58.73	107.73	-33.70	193.98
3.70		25.82	138.08	64.75	106.43	-13.12
	15.56	72.04	34.83	55.53	-3.71	99.95
	6.96	18.01	10.24	13.88	3.68	24.99
	-24.01	0.03	-18.51	-9.00	-33.32	9.06
	-54.03	-5.24	-41.65	-22.91	-74.96	12.42
	-72.04	-8.86	-55.53	-31.48	-99.95	13.76
	-78.05	-10.80	-60.16	-34.70	-108.28	13.10
	-78.05	-10.80	-60.16	-34.70	-108.28	13.10
	-72.04	-11.09	-55.53	-32.59	-99.95	10.41
	-54.03	-9.71	-41.65	-25.14	-74.96	5.71
	-24.01	-6.68	-18.51	-12.35	-33.32	-1.00
	-1.98	18.01	5.77	13.88	-9.73	24.99
	4.39	72.04	29.24	55.53	-20.47	99.95
	12.41	138.08	58.05	106.43	-33.23	191.57
	3.75	25.72	136.40	64.09	105.17	-12.65

	15.51	71.16	34.48	54.87	-3.47	98.73
	6.95	17.79	10.16	13.72	3.74	24.68
	-23.72	0.04	-18.29	-8.89	-32.91	8.98
	-53.37	-5.21	-41.15	-22.65	-74.04	12.24
	-71.16	-8.80	-54.87	-31.13	-98.73	13.52
	-77.09	-10.75	-59.45	-34.33	-106.95	12.83
	-77.09	-10.75	-59.45	-34.33	-106.95	12.83
	-71.16	-11.04	-54.87	-32.25	-98.73	10.17
	-53.37	-9.68	-41.15	-24.88	-74.04	5.53
	-23.72	-6.66	-18.29	-12.24	-32.91	-1.08
	-1.99	17.79	5.69	13.72	-9.66	24.68
	4.34	71.16	28.90	54.87	-20.23	98.73
	12.31	136.40	57.38	105.17	-32.76	189.23
	25.62	134.76	63.44	103.94	-12.20	186.95
	15.46	70.31	34.15	54.23	-3.23	97.54
	6.94	17.58	10.07	13.56	3.80	24.38
	-23.44	0.06	-18.08	-8.78	-32.51	8.90
	-52.73	-5.17	-40.67	-22.40	-73.15	12.06
	-70.31	-8.75	-54.23	-30.79	-97.54	13.28
	-76.17	-10.69	-58.75	-33.97	-105.66	12.58
	-76.17	-10.69	-58.75	-33.97	-105.66	12.58
	-70.31	-10.99	-54.23	-31.91	-97.54	9.93
	-52.73	-9.64	-40.67	-24.63	-73.15	5.35
	-23.44	-6.64	-18.08	-12.13	-32.51	-1.16
	-2.00	17.58	5.60	13.56	-9.61	24.38
	4.29	70.31	28.56	54.23	-19.99	97.54
	12.22	134.76	56.74	103.94	-32.31	186.95
	25.53	133.16	62.82	102.75	-11.75	184.72
	15.41	69.47	33.82	53.61	-3.00	96.38
	6.92	17.37	9.99	13.40	3.86	24.09
	-23.16	0.08	-17.87	-8.67	-32.13	8.82
	-52.11	-5.13	-40.21	-22.15	-72.28	11.89
	-69.47	-8.71	-53.61	-30.47	-96.38	13.05
	-75.26	-10.64	-58.07	-33.61	-104.41	12.33
	-75.26	-10.64	-58.07	-33.61	-104.41	12.33
	-69.47	-10.94	-53.61	-31.58	-96.38	9.70
	-52.11	-9.60	-40.21	-24.39	-72.28	5.18
	-23.16	-6.63	-17.87	-12.02	-32.13	-1.23
	-2.01	17.37	5.52	13.40	-9.55	24.09
	4.24	69.47	28.23	53.61	-19.76	96.38
	12.13	133.16	56.11	102.75	-31.86	184.72
	25.44	131.60	62.21	101.58	-11.32	182.56
	15.36	68.66	33.50	53.00	-2.77	95.25
	6.91	17.17	9.91	13.25	3.92	23.81
	-22.89	0.09	-17.67	-8.56	-31.75	8.75

	-51.50	-5.10	-39.75	-21.91	-71.44	11.72
	-68.66	-8.66	-53.00	-30.15	-95.25	12.83
	-74.39	-10.59	-57.42	-33.27	-103.19	12.08
	-74.39	-10.59	-57.42	-33.27	-103.19	12.08
	-68.66	-10.89	-53.00	-31.27	-95.25	9.48
	-51.50	-9.57	-39.75	-24.15	-71.44	5.01
	-22.89	-6.61	-17.67	-11.91	-31.75	-1.31
	-2.02	17.17	5.44	13.25	-9.49	23.81
	4.19	68.66	27.91	53.00	-19.53	95.25
	12.04	131.60	55.50	101.58	-31.43	182.56
3.95	25.35	130.09	61.61	100.45	-10.90	180.45
	15.32	67.87	33.19	52.41	-2.55	94.15
	6.90	16.97	9.83	13.10	3.97	23.54
	-22.62	0.11	-17.47	-8.46	-31.38	8.67
	-50.90	-5.06	-39.30	-21.68	-70.61	11.55
	-67.87	-8.61	-52.41	-29.84	-94.15	12.61
	-73.53	-10.54	-56.77	-32.93	-101.99	11.85
	-73.53	-10.54	-56.77	-32.93	-101.99	11.85
	-67.87	-10.85	-52.41	-30.95	-94.15	9.26
	-50.90	-9.53	-39.30	-23.91	-70.61	4.85
	-22.62	-6.60	-17.47	-11.81	-31.38	-1.38
	-2.04	16.97	5.36	13.10	-9.44	23.54
	4.14	67.87	27.60	52.41	-19.31	94.15
	11.95	130.09	54.91	100.45	-31.01	180.45
4.00	25.27	128.61	61.03	99.34	-10.49	178.40
	15.27	67.10	32.89	51.83	-2.34	93.08
	6.89	16.78	9.76	12.96	4.02	23.27
	-22.37	0.12	-17.28	-8.36	-31.03	8.60
	-50.33	-5.03	-38.87	-21.45	-69.81	11.39
	-67.10	-8.57	-51.83	-29.53	-93.08	12.40
	-72.69	-10.49	-56.15	-32.60	-100.83	11.61
	-72.69	-10.49	-56.15	-32.60	-100.83	11.61
	-67.10	-10.80	-51.83	-30.65	-93.08	9.04
	-50.33	-9.50	-38.87	-23.69	-69.81	4.69
	-22.37	-6.58	-17.28	-11.71	-31.03	-1.45
	-2.05	16.78	5.29	12.96	-9.38	23.27
	4.10	67.10	27.30	51.83	-19.10	93.08
	11.86	128.61	54.33	99.34	-30.60	178.40
4.05	25.19	127.17	60.47	98.26	-10.09	176.39
	15.23	66.35	32.59	51.27	-2.13	92.03
	6.88	16.59	9.68	12.82	4.08	23.01
	-22.12	0.14	-17.09	-8.26	-30.68	8.53
	-49.76	-5.00	-38.45	-21.23	-69.02	11.24
	-66.35	-8.53	-51.27	-29.24	-92.03	12.19
	-71.88	-10.45	-55.54	-32.28	-99.70	11.39

	-71.88	-10.45	-55.54	-32.28	-99.70	11.39
	-66.35	-10.76	-51.27	-30.36	-92.03	8.84
	-49.76	-9.47	-38.45	-23.47	-69.02	4.53
	-22.12	-6.57	-17.09	-11.61	-30.68	-1.52
	-2.06	16.59	5.22	12.82	-9.33	23.01
	4.06	66.35	27.01	51.27	-18.89	92.03
	11.78	127.17	53.76	98.26	-30.20	176.39
4.10	25.11	125.76	59.91	97.20	-9.70	174.44
	15.19	65.62	32.30	50.72	-1.93	91.01
	6.87	16.40	9.61	12.68	4.13	22.75
	-21.87	0.15	-16.91	-8.16	-30.34	8.46
	-49.21	-4.97	-38.04	-21.02	-68.26	11.08
	-65.62	-8.48	-50.72	-28.95	-91.01	11.98
	-71.08	-10.40	-54.94	-31.97	-98.59	11.17
	-71.08	-10.40	-54.94	-31.97	-98.59	11.17
	-65.62	-10.72	-50.72	-30.07	-91.01	8.63
	-49.21	-9.44	-38.04	-23.25	-68.26	4.38
	-21.87	-6.55	-16.91	-11.51	-30.34	-1.59
	-2.07	16.40	5.14	12.68	-9.28	22.75
	4.02	65.62	26.72	50.72	-18.69	91.01
	11.70	125.76	53.21	97.20	-29.81	174.44
4.15	25.03	124.39	59.38	96.18	-9.32	172.53
	15.15	64.90	32.02	50.18	-1.73	90.01
	6.86	16.22	9.54	12.54	4.18	22.50
	-21.63	0.16	-16.73	-8.07	-30.00	8.40
	-48.67	-4.94	-37.63	-20.81	-67.51	10.93
	-64.90	-8.44	-50.18	-28.67	-90.01	11.78
	-70.31	-10.36	-54.36	-31.67	-97.52	10.95
	-70.31	-10.36	-54.36	-31.67	-97.52	10.95
	-64.90	-10.68	-50.18	-29.79	-90.01	8.43
	-48.67	-9.41	-37.63	-23.04	-67.51	4.23
	-21.63	-6.54	-16.73	-11.42	-30.00	-1.66
	-2.08	16.22	5.07	12.54	-9.23	22.50
	3.97	64.90	26.44	50.18	-18.49	90.01
	11.62	124.39	52.67	96.18	-29.43	172.53
4.20	24.95	123.05	58.85	95.17	-8.95	170.67
	15.11	64.20	31.75	49.66	-1.53	89.04
	6.85	16.05	9.47	12.41	4.22	22.26
	-21.40	0.18	-16.55	-7.98	-29.68	8.33
	-48.15	-4.91	-37.24	-20.60	-66.78	10.79
	-64.20	-8.40	-49.66	-28.40	-89.04	11.59
	-69.55	-10.31	-53.79	-31.37	-96.46	10.74
	-69.55	-10.31	-53.79	-31.37	-96.46	10.74
	-64.20	-10.64	-49.66	-29.51	-89.04	8.24
	-48.15	-9.38	-37.24	-22.83	-66.78	4.08

	-21.40	-6.53	-16.55	-11.33	-29.68	-1.72
	-2.09	16.05	5.00	12.41	-9.18	22.26
	3.93	64.20	26.16	49.66	-18.29	89.04
	11.54	123.05	52.15	95.17	-29.06	170.67
4.25	24.88	121.74	58.34	94.19	-8.58	168.85
	15.07	63.52	31.48	49.14	-1.34	88.09
	6.84	15.88	9.41	12.29	4.27	22.02
	-21.17	0.19	-16.38	-7.89	-29.36	8.27
	-47.64	-4.88	-36.86	-20.40	-66.07	10.64
	-63.52	-8.36	-49.14	-28.13	-88.09	11.40
	-68.81	-10.27	-53.24	-31.08	-95.44	10.53
	-68.81	-10.27	-53.24	-31.08	-95.44	10.53
	-63.52	-10.60	-49.14	-29.25	-88.09	8.05
	-47.64	-9.35	-36.86	-22.63	-66.07	3.94
	-21.17	-6.51	-16.38	-11.24	-29.36	-1.79
	-2.10	15.88	4.94	12.29	-9.13	22.02
	3.90	63.52	25.90	49.14	-18.10	88.09
	11.47	121.74	51.63	94.19	-28.69	168.85
4.30	24.80	120.47	57.84	93.24	-8.23	167.07
	15.03	62.85	31.22	48.65	-1.16	87.17
	6.83	15.71	9.34	12.16	4.32	21.79
	-20.95	0.20	-16.22	-7.80	-29.06	8.21
	-47.14	-4.85	-36.48	-20.20	-65.38	10.51
	-62.85	-8.33	-48.65	-27.87	-87.17	11.21
	-68.09	-10.23	-52.70	-30.80	-94.43	10.33
	-68.09	-10.23	-52.70	-30.80	-94.43	10.33
	-62.85	-10.56	-48.65	-28.99	-87.17	7.86
	-47.14	-9.32	-36.48	-22.44	-65.38	3.80
	-20.95	-6.50	-16.22	-11.15	-29.06	-1.85
	-2.11	15.71	4.87	12.16	-9.09	21.79
	3.86	62.85	25.63	48.65	-17.92	87.17
	11.40	120.47	51.13	93.24	-28.34	167.07
4.35	24.73	119.22	57.35	92.30	-7.88	165.34
	14.99	62.20	30.97	48.16	-0.98	86.26
	6.82	15.55	9.28	12.04	4.36	21.57
	-20.73	0.22	-16.05	-7.71	-28.75	8.15
	-46.65	-4.82	-36.12	-20.01	-64.70	10.37
	-62.20	-8.29	-48.16	-27.61	-86.26	11.03
	-67.39	-10.19	-52.17	-30.52	-93.45	10.14
	-67.39	-10.19	-52.17	-30.52	-93.45	10.14
	-62.20	-10.52	-48.16	-28.73	-86.26	7.68
	-46.65	-9.29	-36.12	-22.25	-64.70	3.67
	-20.73	-6.49	-16.05	-11.07	-28.75	-1.91
	-2.12	15.55	4.81	12.04	-9.04	21.57
	3.82	62.20	25.38	48.16	-17.74	86.26

	11.33	119.22	50.64	92.30	-27.99	165.34
4.40	24.67	118.00	56.87	91.39	-7.54	163.64
	14.96	61.57	30.72	47.68	-0.80	85.38
	6.81	15.39	9.22	11.92	4.41	21.34
	-20.52	0.23	-15.89	-7.63	-28.46	8.09
	-46.17	-4.79	-35.76	-19.82	-64.03	10.24
	-61.57	-8.25	-47.68	-27.36	-85.38	10.86
	-66.70	-10.15	-51.66	-30.25	-92.49	9.95
	-66.70	-10.15	-51.66	-30.25	-92.49	9.95
	-61.57	-10.49	-47.68	-28.48	-85.38	7.50
	-46.17	-9.26	-35.76	-22.06	-64.03	3.53
	-20.52	-6.48	-15.89	-10.98	-28.46	-1.97
	-2.13	15.39	4.75	11.92	-9.00	21.34
	3.79	61.57	25.13	47.68	-17.56	85.38
	11.26	118.00	50.17	91.39	-27.65	163.64
4.45	24.60	116.81	56.40	90.50	-7.21	161.98
	14.92	60.94	30.47	47.22	-0.63	84.51
	6.80	15.24	9.15	11.80	4.45	21.13
	-20.31	0.24	-15.74	-7.55	-28.17	8.03
	-45.71	-4.77	-35.41	-19.64	-63.38	10.11
	-60.94	-8.22	-47.22	-27.12	-84.51	10.68
	-66.02	-10.11	-51.15	-29.99	-91.56	9.76
	-66.02	-10.11	-51.15	-29.99	-91.56	9.76
	-60.94	-10.45	-47.22	-28.24	-84.51	7.33
	-45.71	-9.24	-35.41	-21.88	-63.38	3.40
	-20.31	-6.46	-15.74	-10.90	-28.17	-2.03
	-2.13	15.24	4.69	11.80	-8.96	21.13
	3.75	60.94	24.89	47.22	-17.39	84.51
	11.19	116.81	49.70	90.50	-27.32	161.98
4.50	24.53	115.65	55.95	89.63	-6.88	160.36
	14.89	60.34	30.23	46.76	-0.46	83.67
	6.79	15.08	9.09	11.69	4.49	20.92
	-20.11	0.25	-15.59	-7.47	-27.89	7.97
	-45.25	-4.74	-35.07	-19.46	-62.75	9.98
	-60.34	-8.18	-46.76	-26.88	-83.67	10.51
	-65.36	-10.08	-50.66	-29.73	-90.64	9.57
	-65.36	-10.08	-50.66	-29.73	-90.64	9.57
	-60.34	-10.42	-46.76	-28.00	-83.67	7.16
	-45.25	-9.21	-35.07	-21.70	-62.75	3.28
	-20.11	-6.45	-15.59	-10.82	-27.89	-2.08
	-2.14	15.08	4.63	11.69	-8.91	20.92
	3.72	60.34	24.65	46.76	-17.22	83.67
	11.13	115.65	49.24	89.63	-26.99	160.36

En la Tabla 14 se muestran las combinaciones de esfuerzos para el cordón superior en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 14. Combinación de esfuerzos del cordón superior - 14 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)
0.50	-0.56	0.00	-0.28	0.00	-0.84	0.00
	112.56	610.71	289.70	478.35	-64.57	846.04
	208.28	1127.47	535.07	883.11	-118.50	1561.93
	286.60	1550.27	735.83	1214.27	-162.63	2147.65
	347.51	1879.12	891.97	1471.85	-196.95	2603.21
	391.02	2114.00	1003.50	1655.83	-221.46	2928.61
	417.13	2254.94	1070.42	1766.21	-236.17	3123.85
	418.24	2254.94	1070.98	1766.21	-234.49	3123.85
	392.14	2114.00	1004.06	1655.83	-219.79	2928.61
	348.63	1879.12	892.53	1471.85	-195.27	2603.21
	287.72	1550.27	736.39	1214.27	-160.95	2147.65
	209.40	1127.47	535.63	883.11	-116.83	1561.93
	113.68	610.71	290.26	478.35	-62.90	846.04
	0.00	0.56	0.00	0.28	0.00	0.84
0.55	-0.56	0.00	-0.28	0.00	-0.84	0.00
	87.74	540.65	248.80	420.32	-73.32	749.50
	162.45	998.12	459.55	775.97	-134.66	1383.68
	223.57	1372.42	631.99	1066.96	-184.84	1902.56
	271.12	1663.54	766.11	1293.29	-223.87	2306.14
	305.08	1871.48	861.90	1454.95	-251.75	2594.41
	325.45	1996.24	919.38	1551.95	-268.48	2767.37
	326.57	1996.24	919.94	1551.95	-266.80	2767.37
	306.19	1871.48	862.46	1454.95	-250.07	2594.41
	272.23	1663.54	766.66	1293.29	-222.20	2306.14
	224.69	1372.42	632.55	1066.96	-183.16	1902.56
	163.56	998.12	460.11	775.97	-132.98	1383.68
	88.85	540.65	249.35	420.32	-71.65	749.50
	0.00	0.56	0.00	0.28	0.00	0.84
0.60	-0.56	0.00	-0.28	0.00	-0.84	0.00
	73.73	488.95	221.39	378.65	-73.93	678.07
	136.59	902.68	408.96	699.04	-135.77	1251.81
	188.03	1241.18	562.43	961.18	-186.38	1721.24
	228.03	1504.46	681.79	1165.07	-225.73	2086.36
	256.60	1692.52	767.05	1310.70	-253.84	2347.15
	273.75	1805.35	818.21	1398.08	-270.71	2503.63
	274.87	1805.35	818.77	1398.08	-269.04	2503.63
	257.72	1692.52	767.61	1310.70	-252.17	2347.15
	229.15	1504.46	682.35	1165.07	-224.06	2086.36

	189.14	1241.18	562.99	961.18	-184.70	1721.24
	137.71	902.68	409.52	699.04	-134.10	1251.81
	74.85	488.95	221.95	378.65	-72.25	678.07
	0.00	0.56	0.00	0.28	0.00	0.84
0.65	-0.56	0.00	-0.28	0.00	-0.84	0.00
	63.94	447.26	200.26	345.44	-72.39	620.40
	118.51	825.71	369.95	637.74	-132.93	1145.35
	163.16	1135.35	508.79	876.89	-182.46	1574.86
	197.89	1376.18	616.77	1062.89	-220.99	1908.92
	222.70	1548.20	693.90	1195.75	-248.51	2147.53
	237.58	1651.41	740.18	1275.47	-265.02	2290.70
	238.70	1651.41	740.74	1275.47	-263.34	2290.70
	223.82	1548.20	694.46	1195.75	-246.83	2147.53
	199.01	1376.18	617.33	1062.89	-219.31	1908.92
	164.28	1135.35	509.35	876.89	-180.79	1574.86
	119.63	825.71	370.51	637.74	-131.25	1145.35
	65.05	447.26	200.82	345.44	-70.71	620.40
	0.00	0.56	0.00	0.28	0.00	0.84
	0.70	-0.56	0.00	-0.28	0.00	-0.84
52.86		408.84	179.47	314.30	-73.75	567.35
98.06		754.78	331.56	580.24	-135.44	1047.41
135.04		1037.83	456.00	797.83	-185.91	1440.19
163.81		1257.97	552.79	967.06	-225.17	1745.69
184.35		1415.22	621.92	1087.95	-253.21	1963.90
196.68		1509.56	663.40	1160.48	-270.04	2094.83
197.80		1509.56	663.96	1160.48	-268.36	2094.83
185.47		1415.22	622.48	1087.95	-251.54	1963.90
164.93		1257.97	553.35	967.06	-223.50	1745.69
136.16		1037.83	456.56	797.83	-184.24	1440.19
99.18		754.78	332.12	580.24	-133.76	1047.41
53.98		408.84	180.03	314.30	-72.07	567.35
0.00		0.56	0.00	0.28	0.00	0.84
0.75		-0.56	0.00	-0.28	0.00	-0.84
	49.65	381.94	167.84	293.69	-68.53	530.00
	92.14	705.11	310.09	542.21	-125.82	978.46
	126.90	969.53	426.48	745.53	-172.68	1345.39
	153.93	1175.19	517.00	903.68	-209.13	1630.77
	173.24	1322.09	581.66	1016.64	-235.17	1834.62
	184.83	1410.23	620.46	1084.41	-250.79	1956.93
	185.95	1410.23	621.01	1084.41	-249.12	1956.93
	174.36	1322.09	582.22	1016.64	-233.49	1834.62
	155.05	1175.19	517.56	903.68	-207.46	1630.77
	128.01	969.53	427.03	745.53	-171.01	1345.39
	93.25	705.11	310.65	542.21	-124.14	978.46
	50.77	381.94	168.39	293.69	-66.86	530.00

	0.00	0.56	0.00	0.28	0.00	0.84
0.80	-0.56	0.00	-0.28	0.00	-0.84	0.00
	44.24	355.79	155.05	273.06	-66.58	493.80
	82.14	656.84	286.48	504.11	-122.21	911.63
	113.15	903.15	394.02	693.15	-167.72	1253.50
	137.27	1094.73	477.66	840.19	-203.12	1519.39
	154.50	1231.57	537.40	945.21	-228.41	1709.31
	164.83	1313.68	573.25	1008.22	-243.58	1823.27
	165.95	1313.68	573.81	1008.22	-241.90	1823.27
	155.61	1231.57	537.96	945.21	-226.73	1709.31
	138.39	1094.73	478.22	840.19	-201.45	1519.39
	114.27	903.15	394.58	693.15	-166.05	1253.50
	83.26	656.84	287.04	504.11	-120.53	911.63
	45.35	355.79	155.61	273.06	-64.90	493.80
	0.00	0.56	0.00	0.28	0.00	0.84
0.85	-0.56	0.00	-0.28	0.00	-0.84	0.00
	37.19	330.45	141.51	252.59	-67.12	458.80
	69.14	610.07	261.48	466.32	-123.21	847.02
	95.27	838.84	359.64	641.19	-169.09	1164.66
	115.60	1016.78	435.99	777.20	-204.78	1411.71
	130.12	1143.87	490.52	874.36	-230.28	1588.17
	138.83	1220.13	523.24	932.65	-245.57	1694.05
	139.95	1220.13	523.80	932.65	-243.90	1694.05
	131.24	1143.87	491.08	874.36	-228.60	1588.17
	116.72	1016.78	436.55	777.20	-203.11	1411.71
	96.39	838.84	360.20	641.19	-167.42	1164.66
	70.25	610.07	262.04	466.32	-121.53	847.02
	38.31	330.45	142.07	252.59	-65.44	458.80
	0.00	0.56	0.00	0.28	0.00	0.84
0.90	-0.56	0.00	-0.28	0.00	-0.84	0.00
	35.40	312.39	133.93	238.86	-63.14	433.72
	65.82	576.73	247.49	440.97	-115.85	800.72
	90.71	793.00	340.41	606.34	-158.98	1100.99
	110.07	961.21	412.67	734.95	-192.53	1334.53
	123.90	1081.36	464.29	826.82	-216.49	1501.34
	132.20	1153.46	495.27	881.94	-230.87	1601.43
	133.32	1153.46	495.82	881.94	-229.19	1601.43
	125.02	1081.36	464.85	826.82	-214.81	1501.34
	111.19	961.21	413.23	734.95	-190.85	1334.53
	91.83	793.00	340.97	606.34	-157.31	1100.99
	66.94	576.73	248.05	440.97	-114.18	800.72
	36.51	312.39	134.49	238.86	-61.46	433.72
	0.00	0.56	0.00	0.28	0.00	0.84
0.95	-0.56	0.00	-0.28	0.00	-0.84	0.00
	32.88	295.33	126.24	225.66	-60.48	410.05

	61.17	545.22	233.30	416.61	-110.95	757.02
	84.32	749.68	320.89	572.84	-152.25	1040.90
	102.33	908.70	389.02	694.35	-184.36	1261.69
	115.19	1022.29	437.68	781.14	-207.30	1419.40
	122.90	1090.44	466.88	833.22	-221.07	1514.03
	124.02	1090.44	467.43	833.22	-219.39	1514.03
	116.30	1022.29	438.24	781.14	-205.63	1419.40
	103.44	908.70	389.58	694.35	-182.69	1261.69
	85.44	749.68	321.45	572.84	-150.57	1040.90
	62.29	545.22	233.86	416.61	-109.28	757.02
	34.00	295.33	126.80	225.66	-58.81	410.05
	0.00	0.56	0.00	0.28	0.00	0.84
	-0.56	0.00	-0.28	0.00	-0.84	0.00
1.00	29.75	279.11	118.46	212.92	-58.96	387.58
	55.40	515.27	218.93	393.09	-108.13	715.54
	76.38	708.50	301.14	540.50	-148.37	983.86
	92.70	858.79	365.07	655.15	-179.67	1192.56
	104.36	966.13	410.74	737.04	-202.02	1341.63
	111.36	1030.54	438.14	786.18	-215.43	1431.07
	112.47	1030.54	438.70	786.18	-213.76	1431.07
	105.48	966.13	411.30	737.04	-200.34	1341.63
	93.82	858.79	365.63	655.15	-177.99	1192.56
	77.50	708.50	301.70	540.50	-146.70	983.86
	56.52	515.27	219.49	393.09	-106.46	715.54
	30.87	279.11	119.02	212.92	-57.28	387.58
	0.00	0.56	0.00	0.28	0.00	0.84
	-0.56	0.00	-0.28	0.00	-0.84	0.00
1.05	28.57	266.08	113.07	203.05	-55.93	369.48
	53.22	491.22	208.98	374.85	-102.54	682.11
	73.38	675.42	287.45	515.42	-140.68	937.91
	89.07	818.69	348.48	624.76	-170.35	1136.86
	100.27	921.03	392.07	702.85	-191.53	1278.97
	106.99	982.43	418.23	749.71	-204.25	1364.23
	108.11	982.43	418.79	749.71	-202.57	1364.23
	101.39	921.03	392.63	702.85	-189.86	1278.97
	90.18	818.69	349.04	624.76	-168.67	1136.86
	74.50	675.42	288.01	515.42	-139.01	937.91
	54.33	491.22	209.53	374.85	-100.87	682.11
	29.69	266.08	113.63	203.05	-54.25	369.48
	0.00	0.56	0.00	0.28	0.00	0.84
	-0.56	0.00	-0.28	0.00	-0.84	0.00
1.10	27.50	254.23	108.17	194.07	-53.17	353.03
	51.24	469.36	199.93	358.28	-97.45	651.74
	70.66	645.36	275.01	492.64	-133.68	896.14
	85.77	782.26	333.40	597.14	-161.86	1086.23

	96.56	880.04	375.11	671.78	-181.99	1222.01
	103.04	938.71	400.14	716.56	-194.07	1303.48
	104.15	938.71	400.70	716.56	-192.39	1303.48
	97.68	880.04	375.67	671.78	-180.32	1222.01
	86.89	782.26	333.96	597.14	-160.19	1086.23
	71.78	645.36	275.57	492.64	-132.01	896.14
	52.36	469.36	200.49	358.28	-95.78	651.74
	28.62	254.23	108.73	194.07	-51.50	353.03
	0.00	0.56	0.00	0.28	0.00	0.84
1.15	-0.56	0.00	-0.28	0.00	-0.84	0.00
	24.95	241.85	102.12	184.30	-52.22	335.88
	46.54	446.50	188.77	340.25	-95.70	620.09
	64.20	613.93	259.67	467.85	-131.28	852.63
	77.93	744.16	314.81	567.09	-158.95	1033.49
	87.74	837.18	354.20	637.97	-178.71	1162.67
	93.63	892.99	377.83	680.51	-190.57	1240.19
	94.75	892.99	378.39	680.51	-188.89	1240.19
	88.86	837.18	354.76	637.97	-177.04	1162.67
	79.05	744.16	315.37	567.09	-157.27	1033.49
	65.31	613.93	260.23	467.85	-129.60	852.63
	47.65	446.50	189.33	340.25	-94.03	620.09
	26.07	241.85	102.68	184.30	-50.55	335.88
	0.00	0.56	0.00	0.28	0.00	0.84
1.20	-0.56	0.00	-0.28	0.00	-0.84	0.00
	24.12	232.01	98.09	176.86	-49.85	322.21
	45.01	428.33	181.33	326.51	-91.31	594.85
	62.10	588.95	249.44	448.95	-125.24	817.91
	75.39	713.88	302.41	544.19	-151.63	991.41
	84.88	803.12	340.25	612.21	-170.48	1115.34
	90.58	856.66	362.95	653.02	-181.79	1189.69
	91.70	856.66	363.51	653.02	-180.12	1189.69
	86.00	803.12	340.80	612.21	-168.81	1115.34
	76.51	713.88	302.97	544.19	-149.96	991.41
	63.21	588.95	250.00	448.95	-123.57	817.91
	46.13	428.33	181.89	326.51	-89.64	594.85
	25.24	232.01	98.65	176.86	-48.17	322.21
	0.00	0.56	0.00	0.28	0.00	0.84
1.25	-0.56	0.00	-0.28	0.00	-0.84	0.00
	22.70	222.29	93.72	169.35	-48.33	308.73
	42.37	410.38	173.26	312.64	-88.51	569.96
	58.47	564.28	238.33	429.88	-121.38	783.69
	71.00	683.97	288.95	521.07	-146.96	949.93
	79.94	769.47	325.10	586.20	-165.22	1068.67
	85.31	820.77	346.79	625.28	-176.18	1139.91
	86.42	820.77	347.35	625.28	-174.50	1139.91

	81.06	769.47	325.66	586.20	-163.54	1068.67
	72.11	683.97	289.51	521.07	-145.28	949.93
	59.59	564.28	238.89	429.88	-119.71	783.69
	43.49	410.38	173.82	312.64	-86.83	569.96
	23.81	222.29	94.28	169.35	-46.65	308.73
	0.00	0.56	0.00	0.28	0.00	0.84
1.30	-0.56	0.00	-0.28	0.00	-0.84	0.00
	21.91	213.85	90.21	162.94	-46.39	296.99
	40.92	394.80	166.78	300.81	-84.94	548.30
	56.47	542.84	229.42	413.61	-116.48	753.91
	68.57	657.99	278.15	501.35	-141.01	913.83
	77.21	740.24	312.95	564.02	-158.53	1028.06
	82.40	789.59	333.83	601.62	-169.04	1096.59
	83.51	789.59	334.39	601.62	-167.37	1096.59
	78.33	740.24	313.51	564.02	-156.86	1028.06
	69.69	657.99	278.71	501.35	-139.33	913.83
	57.59	542.84	229.98	413.61	-114.80	753.91
	42.04	394.80	167.34	300.81	-83.27	548.30
	23.03	213.85	90.77	162.94	-44.72	296.99
	0.00	0.56	0.00	0.28	0.00	0.84
1.35	-0.56	0.00	-0.28	0.00	-0.84	0.00
	21.29	206.14	87.07	157.11	-44.50	286.28
	39.77	380.56	160.98	290.06	-81.44	528.51
	54.89	523.27	221.45	398.83	-111.66	726.71
	66.66	634.27	268.48	483.43	-135.17	880.86
	75.06	713.55	302.08	543.86	-151.96	990.96
	80.10	761.12	322.24	580.11	-162.04	1057.03
	81.22	761.12	322.80	580.11	-160.36	1057.03
	76.18	713.55	302.64	543.86	-150.29	990.96
	67.77	634.27	269.04	483.43	-133.50	880.86
	56.01	523.27	222.01	398.83	-109.99	726.71
	40.89	380.56	161.54	290.06	-79.76	528.51
	22.40	206.14	87.63	157.11	-42.82	286.28
	0.00	0.56	0.00	0.28	0.00	0.84
1.40	-0.56	0.00	-0.28	0.00	-0.84	0.00
	18.96	197.23	82.41	149.96	-44.48	273.97
	35.48	364.12	152.37	276.85	-81.41	505.79
	49.00	500.67	209.61	380.67	-111.62	695.46
	59.51	606.87	254.14	461.41	-135.12	842.99
	67.02	682.73	285.94	519.09	-151.91	948.36
	71.52	728.24	305.02	553.70	-161.98	1011.59
	72.64	728.24	305.58	553.70	-160.30	1011.59
	68.13	682.73	286.50	519.09	-150.23	948.36
	60.63	606.87	254.70	461.41	-133.45	842.99
	50.11	500.67	210.17	380.67	-109.95	695.46

	36.60	364.12	152.93	276.85	-79.73	505.79
	20.08	197.23	82.96	149.96	-42.80	273.97
	0.00	0.56	0.00	0.28	0.00	0.84
1.45	-0.56	0.00	-0.28	0.00	-0.84	0.00
	18.48	190.62	79.75	144.98	-42.78	264.78
	34.59	351.92	147.46	267.66	-78.27	488.83
	47.78	483.89	202.87	368.03	-107.31	672.14
	58.03	586.54	245.96	446.10	-129.90	814.72
	65.35	659.85	276.74	501.86	-146.03	916.56
	69.75	703.84	295.21	535.32	-155.71	977.66
	70.87	703.84	295.76	535.32	-154.03	977.66
	66.47	659.85	277.30	501.86	-144.35	916.56
	59.15	586.54	246.52	446.10	-128.22	814.72
	48.89	483.89	203.42	368.03	-105.64	672.14
	35.71	351.92	148.02	267.66	-76.60	488.83
	19.60	190.62	80.31	144.98	-41.11	264.78
	0.00	0.56	0.00	0.28	0.00	0.84
	1.50	-0.56	0.00	-0.28	0.00	-0.84
18.04		184.46	77.27	140.34	-41.20	256.21
33.77		340.54	142.89	259.08	-75.35	473.01
46.64		468.24	196.57	356.24	-103.29	650.38
56.66		567.56	238.33	431.81	-125.02	788.34
63.81		638.51	268.15	485.78	-140.54	886.89
68.10		681.08	286.05	518.17	-149.85	946.01
69.22		681.08	286.61	518.17	-148.18	946.01
64.92		638.51	268.71	485.78	-138.86	886.89
57.77		567.56	238.89	431.81	-123.34	788.34
47.76		468.24	197.13	356.24	-101.61	650.38
34.89		340.54	143.44	259.08	-73.67	473.01
19.15		184.46	77.83	140.34	-39.52	256.21
0.00		0.56	0.00	0.28	0.00	0.84
1.55		-0.56	0.00	-0.28	0.00	-0.84
	17.62	178.69	74.95	135.99	-39.71	248.19
	33.00	329.89	138.61	251.06	-72.60	458.20
	45.59	453.60	190.69	345.21	-99.52	630.03
	55.37	549.82	231.20	418.44	-120.45	763.67
	62.37	618.55	260.13	470.75	-135.40	859.13
	66.56	659.78	277.49	502.13	-144.37	916.41
	67.68	659.78	278.05	502.13	-142.69	916.41
	63.48	618.55	260.69	470.75	-133.72	859.13
	56.49	549.82	231.75	418.44	-118.77	763.67
	46.70	453.60	191.25	345.21	-97.84	630.03
	34.12	329.89	139.16	251.06	-70.93	458.20
	18.74	178.69	75.51	135.99	-38.04	248.19
	0.00	0.56	0.00	0.28	0.00	0.84

1.60	-0.56	0.00	-0.28	0.00	-0.84	0.00
	17.05	173.11	72.60	131.74	-38.50	240.44
	31.95	319.58	134.26	243.22	-70.36	443.88
	44.14	439.42	184.72	334.42	-96.43	610.34
	53.62	532.63	223.96	405.36	-116.71	739.81
	60.40	599.21	251.99	456.03	-131.20	832.28
	64.46	639.16	268.81	486.43	-139.89	887.77
	65.58	639.16	269.37	486.43	-138.21	887.77
	61.51	599.21	252.55	456.03	-129.52	832.28
	54.74	532.63	224.52	405.36	-115.04	739.81
	45.26	439.42	185.28	334.42	-94.76	610.34
	33.07	319.58	134.82	243.22	-68.69	443.88
	18.17	173.11	73.16	131.74	-36.82	240.44
	0.00	0.56	0.00	0.28	0.00	0.84
	1.65	-0.56	0.00	-0.28	0.00	-0.84
16.69		168.04	70.56	127.93	-37.18	233.39
31.29		310.22	130.51	236.17	-67.93	430.87
43.23		426.55	179.55	324.73	-93.09	592.44
52.52		517.03	217.70	393.62	-112.66	718.11
59.15		581.66	244.95	442.82	-126.64	807.88
63.13		620.44	261.30	472.34	-135.03	861.74
64.25		620.44	261.86	472.34	-133.35	861.74
60.27		581.66	245.51	442.82	-124.97	807.88
53.64		517.03	218.26	393.62	-110.99	718.11
44.35		426.55	180.11	324.73	-91.42	592.44
32.41		310.22	131.07	236.17	-66.26	430.87
17.81		168.04	71.12	127.93	-35.51	233.39
0.00		0.56	0.00	0.28	0.00	0.84
1.70		-0.56	0.00	-0.28	0.00	-0.84
	16.36	163.26	68.65	124.33	-35.94	226.75
	30.67	301.41	126.98	229.54	-65.64	418.62
	42.38	414.44	174.70	315.62	-89.95	575.60
	51.48	502.35	211.82	382.56	-108.85	697.70
	57.99	565.14	238.33	430.38	-122.35	784.91
	61.89	602.82	254.23	459.08	-130.45	837.24
	63.01	602.82	254.79	459.08	-128.78	837.24
	59.11	565.14	238.89	430.38	-120.67	784.91
	52.60	502.35	212.37	382.56	-107.17	697.70
	43.49	414.44	175.26	315.62	-88.27	575.60
	31.78	301.41	127.54	229.54	-63.97	418.62
	17.47	163.26	69.21	124.33	-34.27	226.75
	0.00	0.56	0.00	0.28	0.00	0.84
	1.75	-0.56	0.00	-0.28	0.00	-0.84
15.22		157.94	66.03	120.13	-35.59	219.39
28.56		291.59	122.13	221.77	-65.00	405.03

	39.49	400.93	168.04	304.93	-89.06	556.91
	47.98	485.98	203.74	369.62	-107.78	675.05
	54.05	546.73	229.24	415.82	-121.15	759.43
	57.69	583.18	244.54	443.54	-129.17	810.06
	58.81	583.18	245.10	443.54	-127.49	810.06
	55.17	546.73	229.80	415.82	-119.47	759.43
	49.10	485.98	204.30	369.62	-106.10	675.05
	40.60	400.93	168.60	304.93	-87.39	556.91
	29.68	291.59	122.69	221.77	-63.33	405.03
	16.33	157.94	66.59	120.13	-33.92	219.39
	0.00	0.56	0.00	0.28	0.00	0.84
1.80	-0.56	0.00	-0.28	0.00	-0.84	0.00
	14.94	153.72	64.35	116.95	-34.46	213.52
	28.06	283.79	119.03	215.91	-62.92	394.18
	38.79	390.21	163.78	296.88	-86.20	542.00
	47.13	472.98	198.58	359.85	-104.31	656.97
	53.10	532.11	223.43	404.84	-117.24	739.10
	56.67	567.58	238.35	431.82	-125.00	788.37
	57.79	567.58	238.91	431.82	-123.32	788.37
	54.21	532.11	223.99	404.84	-115.56	739.10
	48.25	472.98	199.13	359.85	-102.63	656.97
	39.91	390.21	164.33	296.88	-84.52	542.00
	29.17	283.79	119.59	215.91	-61.24	394.18
	16.06	153.72	64.91	116.95	-32.79	213.52
	0.00	0.56	0.00	0.28	0.00	0.84
1.85	-0.56	0.00	-0.28	0.00	-0.84	0.00
	14.68	149.73	62.76	113.95	-33.40	207.96
	27.58	276.42	116.10	210.37	-60.95	383.93
	38.13	380.07	159.75	289.26	-83.49	527.90
	46.34	460.69	193.69	350.62	-101.02	639.88
	52.20	518.28	217.94	394.45	-113.54	719.87
	55.72	552.83	232.49	420.74	-121.05	767.86
	56.83	552.83	233.05	420.74	-119.38	767.86
	53.32	518.28	218.50	394.45	-111.86	719.87
	47.46	460.69	194.25	350.62	-99.34	639.88
	39.25	380.07	160.31	289.26	-81.81	527.90
	28.70	276.42	116.66	210.37	-59.27	383.93
	15.80	149.73	63.32	113.95	-31.72	207.96
	0.00	0.56	0.00	0.28	0.00	0.84
1.90	-0.56	0.00	-0.28	0.00	-0.84	0.00
	14.44	145.94	61.26	111.11	-32.38	202.70
	27.13	269.43	113.33	205.12	-59.07	374.22
	37.51	370.47	155.93	282.05	-80.91	514.55
	45.59	449.05	189.07	341.87	-97.90	623.69
	51.35	505.18	212.74	384.61	-110.03	701.66

	54.81	538.86	226.94	410.25	-117.31	748.43
	55.93	538.86	227.50	410.25	-115.64	748.43
	52.47	505.18	213.30	384.61	-108.36	701.66
	46.70	449.05	189.63	341.87	-96.22	623.69
	38.63	370.47	156.49	282.05	-79.24	514.55
	28.25	269.43	113.89	205.12	-57.40	374.22
	15.56	145.94	61.82	111.11	-30.71	202.70
	0.00	0.56	0.00	0.28	0.00	0.84
1.95	-0.56	0.00	-0.28	0.00	-0.84	0.00
	14.21	142.35	59.83	108.41	-31.42	197.71
	26.70	262.81	110.70	200.15	-57.30	365.00
	36.92	361.36	152.32	275.20	-78.47	501.88
	44.87	438.01	184.69	333.58	-94.94	608.34
	50.55	492.76	207.81	375.28	-106.70	684.38
	53.96	525.61	221.68	400.30	-113.76	730.01
	55.08	525.61	222.24	400.30	-112.08	730.01
	51.67	492.76	208.37	375.28	-105.02	684.38
	45.99	438.01	185.25	333.58	-93.26	608.34
	38.04	361.36	152.88	275.20	-76.79	501.88
	27.82	262.81	111.26	200.15	-55.62	365.00
	15.32	142.35	60.39	108.41	-29.74	197.71
	0.00	0.56	0.00	0.28	0.00	0.84
2.00	-0.56	0.00	-0.28	0.00	-0.84	0.00
	13.99	138.94	58.48	105.85	-30.51	192.97
	26.30	256.51	108.20	195.42	-55.61	356.25
	36.37	352.71	148.89	268.71	-76.15	489.85
	44.20	427.52	180.53	325.70	-92.12	593.76
	49.80	480.96	203.13	366.42	-103.53	667.97
	53.15	513.03	216.69	390.85	-110.38	712.51
	54.27	513.03	217.25	390.85	-108.70	712.51
	50.91	480.96	203.69	366.42	-101.86	667.97
	45.32	427.52	181.08	325.70	-90.45	593.76
	37.49	352.71	149.44	268.71	-74.47	489.85
	27.41	256.51	108.76	195.42	-53.93	356.25
	15.11	138.94	59.04	105.85	-28.83	192.97
	0.00	0.56	0.00	0.28	0.00	0.84
2.05	-0.56	0.00	-0.28	0.00	-0.84	0.00
	13.78	135.70	57.20	103.42	-29.63	188.46
	25.91	250.53	105.83	190.93	-54.00	347.93
	35.84	344.48	145.62	262.53	-73.94	478.41
	43.56	417.55	176.57	318.21	-89.44	579.89
	49.08	469.74	198.68	357.99	-100.52	652.37
	52.39	501.06	211.94	381.86	-107.16	695.86
	53.51	501.06	212.50	381.86	-105.49	695.86
	50.20	469.74	199.24	357.99	-98.84	652.37

	44.68	417.55	177.13	318.21	-87.77	579.89
	36.96	344.48	146.18	262.53	-72.26	478.41
	27.03	250.53	106.39	190.93	-52.32	347.93
	14.90	135.70	57.76	103.42	-27.96	188.46
	0.00	0.56	0.00	0.28	0.00	0.84
2.10	-0.56	0.00	-0.28	0.00	-0.84	0.00
	13.58	132.62	55.97	101.10	-28.80	184.17
	25.55	244.83	103.57	186.65	-52.47	340.01
	35.34	336.64	142.52	256.64	-71.83	467.51
	42.96	408.05	172.80	311.08	-86.89	566.68
	48.40	459.06	194.44	349.97	-97.64	637.52
	51.66	489.66	207.42	373.30	-104.10	680.02
	52.78	489.66	207.98	373.30	-102.42	680.02
	49.52	459.06	195.00	349.97	-95.97	637.52
	44.08	408.05	173.36	311.08	-85.21	566.68
	36.46	336.64	143.07	256.64	-70.15	467.51
	26.67	244.83	104.13	186.65	-50.79	340.01
	14.70	132.62	56.53	101.10	-27.13	184.17
	0.00	0.56	0.00	0.28	0.00	0.84
2.15	-0.56	0.00	-0.28	0.00	-0.84	0.00
	13.40	129.67	54.81	98.89	-28.01	180.08
	25.21	239.40	101.42	182.57	-51.00	332.45
	34.87	329.17	139.55	251.04	-69.82	457.13
	42.38	399.00	169.22	304.29	-84.45	554.09
	47.75	448.87	190.40	342.32	-94.90	623.35
	50.97	478.80	203.12	365.14	-101.17	664.91
	52.09	478.80	203.67	365.14	-99.50	664.91
	48.87	448.87	190.96	342.32	-93.22	623.35
	43.50	399.00	169.78	304.29	-82.77	554.09
	35.99	329.17	140.11	251.04	-68.14	457.13
	26.32	239.40	101.98	182.57	-49.33	332.45
	14.51	129.67	55.37	98.89	-26.34	180.08
0.00	0.56	0.00	0.28	0.00	0.84	
2.20	-0.56	0.00	-0.28	0.00	-0.84	0.00
	13.22	126.87	53.69	96.78	-27.25	176.18
	24.88	234.22	99.36	178.68	-49.61	325.25
	34.42	322.05	136.73	245.68	-67.90	447.21
	41.84	390.36	165.79	297.80	-82.12	542.08
	47.14	439.16	186.55	335.02	-92.28	609.84
	50.32	468.43	199.01	357.36	-98.38	650.49
	51.43	468.43	199.57	357.36	-96.70	650.49
	48.25	439.16	187.11	335.02	-90.60	609.84
	42.95	390.36	166.35	297.80	-80.44	542.08
	35.53	322.05	137.29	245.68	-66.22	447.21
	26.00	234.22	99.92	178.68	-47.93	325.25

	14.34	126.87	54.25	96.78	-25.58	176.18
	0.00	0.56	0.00	0.28	0.00	0.84
2.25	-0.56	0.00	-0.28	0.00	-0.84	0.00
	13.05	124.18	52.63	94.77	-26.53	172.45
	24.57	229.26	97.40	174.96	-48.27	318.36
	33.99	315.24	134.03	240.57	-66.06	437.75
	41.32	382.11	162.52	291.60	-79.89	530.60
	46.55	429.87	182.87	328.05	-89.77	596.93
	49.69	458.53	195.08	349.92	-95.70	636.72
	50.81	458.53	195.64	349.92	-94.03	636.72
	47.67	429.87	183.43	328.05	-88.10	596.93
	42.43	382.11	163.08	291.60	-78.22	530.60
	35.11	315.24	134.59	240.57	-64.38	437.75
	25.68	229.26	97.96	174.96	-46.59	318.36
	14.17	124.18	53.19	94.77	-24.85	172.45
	0.00	0.56	0.00	0.28	0.00	0.84
	2.30	-0.56	0.00	-0.28	0.00	-0.84
12.89		121.62	51.62	92.85	-25.84	168.88
24.27		224.53	95.53	171.41	-46.99	311.77
33.58		308.73	131.46	235.68	-64.30	428.69
40.82		374.21	159.40	285.68	-77.76	519.62
45.99		420.99	179.36	321.39	-87.38	584.58
49.10		449.06	191.33	342.81	-93.14	623.55
50.21		449.06	191.89	342.81	-91.47	623.55
47.11		420.99	179.92	321.39	-85.70	584.58
41.94		374.21	159.96	285.68	-76.08	519.62
34.70		308.73	132.01	235.68	-62.62	428.69
25.39		224.53	96.09	171.41	-45.32	311.77
14.01		121.62	52.17	92.85	-24.16	168.88
0.00		0.56	0.00	0.28	0.00	0.84
2.35		-0.56	0.00	-0.28	0.00	-0.84
	12.74	119.16	50.64	91.00	-25.17	165.46
	23.98	220.00	93.73	168.00	-45.77	305.47
	33.19	302.49	128.99	231.00	-62.61	420.02
	40.35	366.66	156.41	280.01	-75.72	509.12
	45.46	412.49	175.99	315.01	-85.08	572.76
	48.53	439.99	187.75	336.01	-90.69	610.94
	49.64	439.99	188.30	336.01	-89.02	610.94
	46.58	412.49	176.55	315.01	-83.40	572.76
	41.46	366.66	156.97	280.01	-74.04	509.12
	34.30	302.49	129.55	231.00	-60.94	420.02
	25.10	220.00	94.29	168.00	-44.09	305.47
	13.85	119.16	51.20	91.00	-23.50	165.46
	0.00	0.56	0.00	0.28	0.00	0.84
	2.40	-0.56	0.00	-0.28	0.00	-0.84

	12.59	116.81	49.71	89.24	-24.54	162.19
	23.71	215.65	92.01	164.74	-44.59	299.43
	32.81	296.52	126.62	226.52	-61.00	411.72
	39.89	359.42	153.54	274.57	-73.76	499.05
	44.95	404.35	172.77	308.89	-82.87	561.43
	47.98	431.30	184.31	329.49	-88.34	598.86
	49.10	431.30	184.87	329.49	-86.66	598.86
	46.07	404.35	173.33	308.89	-81.20	561.43
	41.01	359.42	154.10	274.57	-72.08	499.05
	33.93	296.52	127.18	226.52	-59.32	411.72
	24.83	215.65	92.57	164.74	-42.91	299.43
	13.71	116.81	50.27	89.24	-22.86	162.19
	0.00	0.56	0.00	0.28	0.00	0.84
2.45	-0.56	0.00	-0.28	0.00	-0.84	0.00
	12.45	114.56	48.82	87.54	-23.93	159.05
	23.45	211.49	90.37	161.62	-43.46	293.64
	32.46	290.79	124.36	222.22	-59.44	403.75
	39.46	352.48	150.80	269.36	-71.88	489.40
	44.46	396.54	169.68	303.03	-80.76	550.57
	47.46	422.97	181.01	323.23	-86.08	587.28
	48.58	422.97	181.57	323.23	-84.41	587.28
	45.58	396.54	170.24	303.03	-79.08	550.57
	40.58	352.48	151.36	269.36	-70.20	489.40
	33.57	290.79	124.92	222.22	-57.77	403.75
	24.57	211.49	90.93	161.62	-41.78	293.64
	13.56	114.56	49.38	87.54	-22.25	159.05
	0.00	0.56	0.00	0.28	0.00	0.84
2.50	-0.56	0.00	-0.28	0.00	-0.84	0.00
	12.31	112.39	47.96	85.92	-23.34	156.04
	23.20	207.49	88.79	158.62	-42.38	288.08
	32.12	285.30	122.19	218.10	-57.95	396.11
	39.05	345.81	148.16	264.36	-70.07	480.13
	44.00	389.04	166.72	297.41	-78.72	540.15
	46.97	414.98	177.85	317.23	-83.91	576.16
	48.09	414.98	178.41	317.23	-82.24	576.16
	45.12	389.04	167.28	297.41	-77.05	540.15
	40.16	345.81	148.72	264.36	-68.39	480.13
	33.23	285.30	122.74	218.10	-56.28	396.11
	24.32	207.49	89.34	158.62	-40.70	288.08
	13.43	112.39	48.52	85.92	-21.66	156.04
	0.00	0.56	0.00	0.28	0.00	0.84
2.55	-0.56	0.00	-0.28	0.00	-0.84	0.00
	12.18	110.31	47.14	84.36	-22.77	153.15
	22.97	203.65	87.27	155.73	-41.33	282.74
	31.79	280.02	120.10	214.14	-56.52	388.76

	38.65	339.41	145.63	259.56	-68.33	471.23
	43.55	381.84	163.87	292.00	-76.77	530.13
	46.49	407.30	174.81	311.47	-81.83	565.48
	47.61	407.30	175.37	311.47	-80.15	565.48
	44.67	381.84	164.43	292.00	-75.09	530.13
	39.77	339.41	146.19	259.56	-66.65	471.23
	32.91	280.02	120.66	214.14	-54.84	388.76
	24.08	203.65	87.83	155.73	-39.66	282.74
	13.30	110.31	47.70	84.36	-21.10	153.15
	0.00	0.56	0.00	0.28	0.00	0.84
2.60	-0.56	0.00	-0.28	0.00	-0.84	0.00
	12.06	108.31	46.35	82.86	-22.23	150.37
	22.74	199.96	85.81	152.96	-40.33	277.60
	31.48	274.94	118.09	210.33	-55.14	381.71
	38.27	333.26	143.20	254.94	-66.66	462.67
	43.12	374.92	161.14	286.81	-74.89	520.51
	46.04	399.91	171.90	305.93	-79.82	555.21
	47.15	399.91	172.45	305.93	-78.15	555.21
	44.24	374.92	161.69	286.81	-73.21	520.51
	39.39	333.26	143.76	254.94	-64.98	462.67
	32.59	274.94	118.65	210.33	-53.46	381.71
	23.86	199.96	86.37	152.96	-38.65	277.60
	13.18	108.31	46.91	82.86	-20.55	150.37
	0.00	0.56	0.00	0.28	0.00	0.84
2.65	-0.56	0.00	-0.28	0.00	-0.84	0.00
	11.94	106.39	45.59	81.41	-21.71	147.69
	22.52	196.41	84.41	150.30	-39.36	272.66
	31.18	270.06	116.16	206.66	-53.81	374.91
	37.91	327.34	140.86	250.50	-65.05	454.44
	42.71	368.26	158.50	281.81	-73.07	511.25
	45.60	392.81	169.09	300.60	-77.89	545.33
	46.72	392.81	169.65	300.60	-76.21	545.33
	43.83	368.26	159.06	281.81	-71.40	511.25
	39.02	327.34	141.42	250.50	-63.37	454.44
	32.29	270.06	116.72	206.66	-52.14	374.91
	23.64	196.41	84.96	150.30	-37.69	272.66
	13.06	106.39	46.15	81.41	-20.03	147.69
	0.00	0.56	0.00	0.28	0.00	0.84
2.70	-0.56	0.00	-0.28	0.00	-0.84	0.00
	11.83	104.53	44.86	80.02	-21.20	145.12
	22.31	192.99	83.05	147.73	-38.43	267.91
	30.89	265.36	114.30	203.13	-52.53	368.37
	37.56	321.64	138.61	246.22	-63.50	446.51
	42.32	361.85	155.97	277.00	-71.33	502.33
	45.18	385.97	166.39	295.47	-76.03	535.82

	46.30	385.97	166.95	295.47	-74.35	535.82
	43.44	361.85	156.53	277.00	-69.65	502.33
	38.67	321.64	139.17	246.22	-61.82	446.51
	32.00	265.36	114.86	203.13	-50.86	368.37
	23.43	192.99	83.61	147.73	-36.76	267.91
	12.95	104.53	45.42	80.02	-19.53	145.12
	0.00	0.56	0.00	0.28	0.00	0.84
2.75	-0.56	0.00	-0.28	0.00	-0.84	0.00
	11.72	102.75	44.16	78.68	-20.72	142.64
	22.11	189.69	81.75	145.26	-37.54	263.33
	30.61	260.83	112.52	199.73	-51.30	362.07
	37.22	316.15	136.44	242.10	-62.00	438.88
	41.94	355.67	153.53	272.37	-69.65	493.74
	44.78	379.38	163.79	290.52	-74.23	526.65
	45.89	379.38	164.35	290.52	-72.56	526.65
	43.06	355.67	154.09	272.37	-67.97	493.74
	38.34	316.15	137.00	242.10	-60.32	438.88
	31.73	260.83	113.07	199.73	-49.62	362.07
	23.23	189.69	82.31	145.26	-35.86	263.33
	12.84	102.75	44.71	78.68	-19.04	142.64
	0.00	0.56	0.00	0.28	0.00	0.84
2.80	-0.56	0.00	-0.28	0.00	-0.84	0.00
	11.61	101.03	43.48	77.39	-20.25	140.24
	21.92	186.51	80.50	142.88	-36.67	258.91
	30.34	256.46	110.79	196.46	-50.11	356.00
	36.90	310.86	134.35	238.13	-60.56	431.52
	41.58	349.72	151.18	267.90	-68.02	485.46
	44.39	373.03	161.28	285.76	-72.50	517.82
	45.51	373.03	161.84	285.76	-70.82	517.82
	42.70	349.72	151.74	267.90	-66.35	485.46
	38.02	310.86	134.91	238.13	-58.88	431.52
	31.46	256.46	111.35	196.46	-48.43	356.00
	23.03	186.51	81.06	142.88	-34.99	258.91
	12.73	101.03	44.03	77.39	-18.57	140.24
	0.00	0.56	0.00	0.28	0.00	0.84
2.85	-0.56	0.00	-0.28	0.00	-0.84	0.00
	11.51	99.37	42.82	76.15	-19.79	137.93
	21.73	183.45	79.29	140.58	-35.83	254.65
	30.09	252.24	109.13	193.30	-48.96	350.14
	36.59	305.75	132.34	234.30	-59.16	424.41
	41.23	343.97	148.91	263.59	-66.45	477.46
	44.02	366.90	158.86	281.16	-70.83	509.30
	45.13	366.90	159.42	281.16	-69.15	509.30
	42.35	343.97	149.47	263.59	-64.78	477.46
	37.70	305.75	132.90	234.30	-57.49	424.41

	31.20	252.24	109.69	193.30	-47.28	350.14
	22.85	183.45	79.85	140.58	-34.16	254.65
	12.63	99.37	43.38	76.15	-18.12	137.93
	0.00	0.56	0.00	0.28	0.00	0.84
2.90	-0.56	0.00	-0.28	0.00	-0.84	0.00
	11.42	97.77	42.19	74.95	-19.36	135.71
	21.55	180.49	78.12	138.36	-35.02	250.53
	29.84	248.18	107.52	190.25	-47.84	344.48
	36.29	300.82	130.39	230.60	-57.81	417.56
	40.89	338.42	146.73	259.43	-64.94	469.75
	43.66	360.98	156.53	276.72	-69.21	501.07
	44.78	360.98	157.09	276.72	-67.53	501.07
	42.01	338.42	147.28	259.43	-63.26	469.75
	37.41	300.82	130.95	230.60	-56.14	417.56
	30.96	248.18	108.08	190.25	-46.17	344.48
	22.67	180.49	78.68	138.36	-33.35	250.53
	12.53	97.77	42.75	74.95	-17.68	135.71
	0.00	0.56	0.00	0.28	0.00	0.84
	2.95	-0.56	0.00	-0.28	0.00	-0.84
11.32		96.22	41.58	73.78	-18.93	133.55
21.38		177.64	77.00	136.22	-34.24	246.56
29.60		244.25	105.98	187.30	-46.77	339.02
36.00		296.06	128.51	227.03	-56.51	410.93
40.57		333.07	144.61	255.41	-63.47	462.30
43.31		355.27	154.27	272.44	-67.65	493.12
44.43		355.27	154.83	272.44	-65.97	493.12
41.69		333.07	145.17	255.41	-61.80	462.30
37.12		296.06	129.07	227.03	-54.84	410.93
30.72		244.25	106.53	187.30	-45.09	339.02
22.49		177.64	77.56	136.22	-32.57	246.56
12.44		96.22	42.14	73.78	-17.26	133.55
0.00		0.56	0.00	0.28	0.00	0.84
3.00	-0.56	0.00	-0.28	0.00	-0.84	0.00
	11.23	94.72	40.99	72.66	-18.52	131.47
	21.21	174.87	75.91	134.15	-33.49	242.72
	29.37	240.45	104.48	184.45	-45.73	333.74
	35.72	291.46	126.70	223.58	-55.25	404.53
	40.26	327.89	142.57	251.52	-62.05	455.10
	42.98	349.75	152.09	268.29	-66.14	485.44
	44.10	349.75	152.65	268.29	-64.46	485.44
	41.38	327.89	143.13	251.52	-60.38	455.10
	36.84	291.46	127.26	223.58	-53.58	404.53
	30.49	240.45	105.04	184.45	-44.05	333.74
	22.33	174.87	76.47	134.15	-31.81	242.72
	12.35	94.72	41.55	72.66	-16.85	131.47

	0.00	0.56	0.00	0.28	0.00	0.84
3.05	-0.56	0.00	-0.28	0.00	-0.84	0.00
	11.15	93.28	40.42	71.58	-18.13	129.46
	21.05	172.20	74.86	132.14	-32.76	239.01
	29.15	236.78	103.03	181.70	-44.72	328.63
	35.46	287.01	124.94	220.24	-54.03	398.34
	39.96	322.88	140.60	247.77	-60.68	448.14
	42.66	344.41	149.99	264.29	-64.67	478.01
	43.78	344.41	150.55	264.29	-63.00	478.01
	41.07	322.88	141.16	247.77	-59.01	448.14
	36.57	287.01	125.50	220.24	-52.36	398.34
	30.27	236.78	103.59	181.70	-43.05	328.63
	22.17	172.20	75.41	132.14	-31.08	239.01
	12.26	93.28	40.98	71.58	-16.45	129.46
	0.00	0.56	0.00	0.28	0.00	0.84
3.10	-0.56	0.00	-0.28	0.00	-0.84	0.00
	11.06	91.88	39.87	70.53	-17.74	127.51
	20.89	169.62	73.84	130.21	-32.05	235.41
	28.94	233.23	101.63	179.03	-43.75	323.69
	35.20	282.70	123.25	217.01	-52.85	392.35
	39.67	318.04	138.69	244.14	-59.36	441.40
	42.35	339.24	147.95	260.41	-63.26	470.82
	43.47	339.24	148.51	260.41	-61.58	470.82
	40.78	318.04	139.25	244.14	-57.68	441.40
	36.31	282.70	123.81	217.01	-51.18	392.35
	30.06	233.23	102.19	179.03	-42.07	323.69
	22.01	169.62	74.40	130.21	-30.37	235.41
	12.18	91.88	40.43	70.53	-16.07	127.51
	0.00	0.56	0.00	0.28	0.00	0.84
3.15	-0.56	0.00	-0.28	0.00	-0.84	0.00
	10.98	90.52	39.33	69.51	-17.37	125.63
	20.75	167.12	72.85	128.33	-31.36	231.93
	28.73	229.79	100.28	176.45	-42.81	318.91
	34.95	278.53	121.60	213.88	-51.71	386.55
	39.39	313.35	136.84	240.62	-58.07	434.87
	42.05	334.24	145.98	256.66	-61.88	463.87
	43.17	334.24	146.54	256.66	-60.21	463.87
	40.50	313.35	137.40	240.62	-56.39	434.87
	36.06	278.53	122.16	213.88	-50.03	386.55
	29.85	229.79	100.83	176.45	-41.13	318.91
	21.86	167.12	73.41	128.33	-29.69	231.93
	12.10	90.52	39.89	69.51	-15.70	125.63
	0.00	0.56	0.00	0.28	0.00	0.84
3.20	-0.56	0.00	-0.28	0.00	-0.84	0.00
	10.90	89.21	38.82	68.53	-17.01	123.80

	20.60	164.69	71.90	126.51	-30.70	228.56
	28.54	226.46	98.96	173.96	-41.89	314.27
	34.71	274.49	120.01	210.86	-50.60	380.94
	39.11	308.80	135.05	237.21	-56.82	428.56
	41.76	329.39	144.07	253.03	-60.55	457.13
	42.88	329.39	144.63	253.03	-58.88	457.13
	40.23	308.80	135.61	237.21	-55.15	428.56
	35.82	274.49	120.57	210.86	-48.93	380.94
	29.65	226.46	99.52	173.96	-40.22	314.27
	21.72	164.69	72.46	126.51	-29.02	228.56
	12.02	89.21	39.37	68.53	-15.34	123.80
	0.00	0.56	0.00	0.28	0.00	0.84
	-0.56	0.00	-0.28	0.00	-0.84	0.00
3.25	10.83	87.94	38.32	67.57	-16.66	122.04
	20.46	162.35	70.97	124.75	-30.05	225.30
	28.34	223.23	97.69	171.53	-41.01	309.78
	34.47	270.58	118.47	207.92	-49.53	375.50
	38.85	304.40	133.32	233.91	-55.61	422.43
	41.48	324.69	142.22	249.51	-59.26	450.59
	42.60	324.69	142.78	249.51	-57.59	450.59
	39.97	304.40	133.88	233.91	-53.94	422.43
	35.59	270.58	119.03	207.92	-47.85	375.50
	29.46	223.23	98.25	171.53	-39.33	309.78
	21.58	162.35	71.53	124.75	-28.37	225.30
	11.94	87.94	38.87	67.57	-14.99	122.04
	0.00	0.56	0.00	0.28	0.00	0.84
	-0.56	0.00	-0.28	0.00	-0.84	0.00
3.30	10.75	86.70	37.83	66.65	-16.32	120.32
	20.33	160.07	70.08	123.05	-29.42	222.13
	28.16	220.10	96.46	169.19	-40.14	305.43
	34.25	266.78	116.98	205.08	-48.48	370.22
	38.60	300.13	131.64	230.71	-54.44	416.50
	41.21	320.14	140.43	246.09	-58.01	444.26
	42.33	320.14	140.99	246.09	-56.34	444.26
	39.72	300.13	132.20	230.71	-52.76	416.50
	35.37	266.78	117.54	205.08	-46.81	370.22
	29.27	220.10	97.02	169.19	-38.47	305.43
	21.44	160.07	70.63	123.05	-27.75	222.13
	11.87	86.70	38.39	66.65	-14.65	120.32
	0.00	0.56	0.00	0.28	0.00	0.84
	-0.56	0.00	-0.28	0.00	-0.84	0.00
3.35	10.68	85.51	37.36	65.75	-15.99	118.66
	20.19	157.86	69.21	121.39	-28.82	219.06
	27.98	217.06	95.26	166.91	-39.31	301.21
	34.03	263.10	115.53	202.32	-47.47	365.10

	38.35	295.99	130.01	227.61	-53.30	410.74
	40.95	315.72	138.69	242.78	-56.80	438.12
	42.07	315.72	139.25	242.78	-55.12	438.12
	39.47	295.99	130.57	227.61	-51.62	410.74
	35.15	263.10	116.09	202.32	-45.79	365.10
	29.09	217.06	95.82	166.91	-37.63	301.21
	21.31	157.86	69.77	121.39	-27.14	219.06
	11.80	85.51	37.92	65.75	-14.32	118.66
	0.00	0.56	0.00	0.28	0.00	0.84
3.40	-0.56	0.00	-0.28	0.00	-0.84	0.00
	10.61	84.35	36.90	64.88	-15.67	117.04
	20.07	155.72	68.36	119.78	-28.23	216.08
	27.80	214.11	94.10	164.70	-38.50	297.11
	33.82	259.53	114.13	199.64	-46.49	360.13
	38.12	291.97	128.43	224.59	-52.19	405.15
	40.70	311.44	137.01	239.57	-55.62	432.16
	41.81	311.44	137.56	239.57	-53.94	432.16
	39.23	291.97	128.98	224.59	-50.52	405.15
	34.94	259.53	114.68	199.64	-44.81	360.13
	28.92	214.11	94.66	164.70	-36.82	297.11
	21.19	155.72	68.92	119.78	-26.55	216.08
	11.73	84.35	37.46	64.88	-14.00	117.04
	0.00	0.56	0.00	0.28	0.00	0.84
3.45	-0.56	0.00	-0.28	0.00	-0.84	0.00
	10.55	83.22	36.46	64.04	-15.36	115.48
	19.95	153.64	67.55	118.22	-27.65	213.19
	27.63	211.25	92.98	162.56	-37.71	293.13
	33.62	256.06	112.76	197.04	-45.53	355.31
	37.89	288.07	126.89	221.67	-51.12	399.72
	40.45	307.28	135.37	236.45	-54.47	426.37
	41.57	307.28	135.93	236.45	-52.79	426.37
	39.00	288.07	127.45	221.67	-49.44	399.72
	34.73	256.06	113.32	197.04	-43.86	355.31
	28.75	211.25	93.54	162.56	-36.03	293.13
	21.06	153.64	68.10	118.22	-25.98	213.19
	11.67	83.22	37.02	64.04	-13.69	115.48
	0.00	0.56	0.00	0.28	0.00	0.84
3.50	-0.56	0.00	-0.28	0.00	-0.84	0.00
	10.48	82.13	36.03	63.22	-15.06	113.95
	19.83	151.62	66.75	116.71	-27.10	210.38
	27.47	208.47	91.89	160.48	-36.94	289.27
	33.42	252.70	111.44	194.52	-44.60	350.63
	37.66	284.28	125.40	218.83	-50.07	394.45
	40.21	303.24	133.78	233.42	-53.36	420.75
	41.33	303.24	134.34	233.42	-51.68	420.75

	38.78	284.28	125.96	218.83	-48.40	394.45
	34.53	252.70	112.00	194.52	-42.93	350.63
	28.59	208.47	92.44	160.48	-35.27	289.27
	20.94	151.62	67.31	116.71	-25.42	210.38
	11.60	82.13	36.59	63.22	-13.39	113.95
	0.00	0.56	0.00	0.28	0.00	0.84
3.55	-0.56	0.00	-0.28	0.00	-0.84	0.00
	10.42	81.06	35.61	62.42	-14.77	112.47
	19.71	149.65	65.98	115.24	-26.55	207.64
	27.31	205.77	90.82	158.45	-36.20	285.51
	33.23	249.42	110.15	192.06	-43.70	346.07
	37.45	280.60	123.95	216.07	-49.06	389.33
	39.98	299.31	132.24	230.47	-52.27	415.29
	41.10	299.31	132.79	230.47	-50.60	415.29
	38.57	280.60	124.51	216.07	-47.38	389.33
	34.34	249.42	110.71	192.06	-42.02	346.07
	28.43	205.77	91.38	158.45	-34.52	285.51
	20.83	149.65	66.54	115.24	-24.88	207.64
	11.54	81.06	36.17	62.42	-13.09	112.47
	0.00	0.56	0.00	0.28	0.00	0.84
3.60	-0.56	0.00	-0.28	0.00	-0.84	0.00
	10.36	80.03	35.20	61.65	-14.48	111.04
	19.60	147.75	65.23	113.81	-26.03	204.99
	27.16	203.15	89.79	156.48	-35.47	281.86
	33.04	246.24	108.90	189.68	-42.82	341.65
	37.24	277.02	122.55	213.39	-48.07	384.36
	39.76	295.49	130.73	227.61	-51.22	409.98
	40.88	295.49	131.29	227.61	-49.54	409.98
	38.36	277.02	123.10	213.39	-46.39	384.36
	34.16	246.24	109.46	189.68	-41.14	341.65
	28.28	203.15	90.35	156.48	-33.80	281.86
	20.72	147.75	65.79	113.81	-24.35	204.99
	11.48	80.03	35.76	61.65	-12.81	111.04
	0.00	0.56	0.00	0.28	0.00	0.84
3.65	-0.56	0.00	-0.28	0.00	-0.84	0.00
	10.30	79.02	34.81	60.89	-14.20	109.64
	19.49	145.89	64.50	112.42	-25.51	202.41
	27.01	200.60	88.79	154.57	-34.77	278.31
	32.86	243.15	107.68	187.36	-41.97	337.35
	37.04	273.54	121.18	210.78	-47.11	379.52
	39.54	291.78	129.28	224.83	-50.19	404.82
	40.66	291.78	129.83	224.83	-48.52	404.82
	38.15	273.54	121.74	210.78	-45.43	379.52
	33.98	243.15	108.24	187.36	-40.29	337.35
	28.13	200.60	89.35	154.57	-33.09	278.31

	20.61	145.89	65.06	112.42	-23.84	202.41	
	11.42	79.02	35.37	60.89	-12.53	109.64	
	0.00	0.56	0.00	0.28	0.00	0.84	
3.70	-0.56	0.00	-0.28	0.00	-0.84	0.00	
	10.24	78.05	34.42	60.16	-13.93	108.28	
	19.39	144.08	63.79	111.06	-25.02	199.90	
	26.87	198.12	87.81	152.71	-34.08	274.86	
	32.68	240.14	106.50	185.10	-41.13	333.16	
	36.84	270.16	119.85	208.24	-46.17	374.81	
	39.33	288.17	127.86	222.12	-49.19	399.79	
	40.45	288.17	128.41	222.12	-47.52	399.79	
	37.96	270.16	120.41	208.24	-44.50	374.81	
	33.80	240.14	107.06	185.10	-39.46	333.16	
	27.98	198.12	88.37	152.71	-32.41	274.86	
	20.50	144.08	64.35	111.06	-23.34	199.90	
	11.36	78.05	34.98	60.16	-12.26	108.28	
	0.00	0.56	0.00	0.28	0.00	0.84	
	3.75	-0.56	0.00	-0.28	0.00	-0.84	0.00
		10.19	77.09	34.05	59.45	-13.67	106.95
19.28		142.33	63.10	109.74	-24.53	197.45	
26.73		195.70	86.86	150.90	-33.41	271.50	
32.51		237.21	105.35	182.91	-40.32	329.09	
36.65		266.86	118.55	205.77	-45.26	370.22	
39.13		284.65	126.48	219.49	-48.22	394.91	
40.24		284.65	127.03	219.49	-46.55	394.91	
37.76		266.86	119.11	205.77	-43.58	370.22	
33.63		237.21	105.91	182.91	-38.65	329.09	
27.84		195.70	87.42	150.90	-31.74	271.50	
20.40		142.33	63.66	109.74	-22.85	197.45	
11.31		77.09	34.61	59.45	-11.99	106.95	
0.00		0.56	0.00	0.28	0.00	0.84	
3.80	-0.56	0.00	-0.28	0.00	-0.84	0.00	
	10.14	76.17	33.69	58.75	-13.41	105.66	
	19.19	140.62	62.43	108.46	-24.06	195.07	
	26.59	193.35	85.94	149.14	-32.76	268.23	
	32.35	234.36	104.23	180.77	-39.53	325.12	
	36.46	263.65	117.29	203.37	-44.37	365.76	
	38.93	281.23	125.13	216.93	-47.27	390.15	
	40.05	281.23	125.69	216.93	-45.60	390.15	
	37.58	263.65	117.85	203.37	-42.70	365.76	
	33.46	234.36	104.79	180.77	-37.86	325.12	
	27.71	193.35	86.50	149.14	-31.09	268.23	
	20.30	140.62	62.98	108.46	-22.38	195.07	
	11.25	76.17	34.24	58.75	-11.74	105.66	
	0.00	0.56	0.00	0.28	0.00	0.84	

3.85	-0.56	0.00	-0.28	0.00	-0.84	0.00
	10.08	75.26	33.33	58.07	-13.16	104.41
	19.09	138.95	61.77	107.21	-23.59	192.76
	26.46	191.06	85.04	147.42	-32.13	265.04
	32.19	231.58	103.14	178.69	-38.77	321.26
	36.28	260.53	116.07	201.03	-43.51	361.42
	38.74	277.90	123.82	214.43	-46.35	385.51
	39.85	277.90	124.38	214.43	-44.67	385.51
	37.40	260.53	116.62	201.03	-41.83	361.42
	33.30	231.58	103.70	178.69	-37.09	321.26
	27.57	191.06	85.60	147.42	-30.45	265.04
	20.21	138.95	62.33	107.21	-21.92	192.76
	11.20	75.26	33.89	58.07	-11.49	104.41
	0.00	0.56	0.00	0.28	0.00	0.84
	3.90	-0.56	0.00	-0.28	0.00	-0.84
10.03		74.39	32.99	57.42	-12.92	103.19
18.99		137.33	61.13	106.00	-23.14	190.50
26.33		188.82	84.16	145.75	-31.51	261.94
32.03		228.88	102.08	176.66	-38.02	317.50
36.10		257.49	114.87	198.75	-42.66	357.18
38.55		274.65	122.55	212.00	-45.45	381.00
39.67		274.65	123.11	212.00	-43.78	381.00
37.22		257.49	115.43	198.75	-40.99	357.18
33.15		228.88	102.64	176.66	-36.34	317.50
27.44		188.82	84.72	145.75	-29.83	261.94
20.11		137.33	61.69	106.00	-21.47	190.50
11.15		74.39	33.55	57.42	-11.24	103.19
0.00		0.56	0.00	0.28	0.00	0.84
3.95		-0.56	0.00	-0.28	0.00	-0.84
	9.98	73.53	32.65	56.77	-12.68	101.99
	18.90	135.74	60.51	104.81	-22.71	188.30
	26.20	186.65	83.31	144.12	-30.91	258.91
	31.88	226.24	101.04	174.69	-37.28	313.83
	35.93	254.52	113.71	196.52	-41.84	353.06
	38.37	271.49	121.31	209.62	-44.57	376.60
	39.48	271.49	121.86	209.62	-42.90	376.60
	37.05	254.52	114.27	196.52	-40.16	353.06
	33.00	226.24	101.60	174.69	-35.61	313.83
	27.32	186.65	83.87	144.12	-29.23	258.91
	20.02	135.74	61.07	104.81	-21.03	188.30
	11.10	73.53	33.21	56.77	-11.01	101.99
	0.00	0.56	0.00	0.28	0.00	0.84
	4.00	-0.56	0.00	-0.28	0.00	-0.84
9.94		72.69	32.32	56.15	-12.45	100.83
18.82		134.20	59.91	103.66	-22.28	186.15

	26.08	184.53	82.48	142.53	-30.32	255.96
	31.73	223.67	100.03	172.76	-36.57	310.26
	35.77	251.63	112.57	194.36	-41.04	349.04
	38.19	268.40	120.10	207.31	-43.72	372.31
	39.31	268.40	120.65	207.31	-42.04	372.31
	36.88	251.63	113.13	194.36	-39.36	349.04
	32.85	223.67	100.59	172.76	-34.90	310.26
	27.20	184.53	83.04	142.53	-28.64	255.96
	19.93	134.20	60.47	103.66	-20.60	186.15
	11.05	72.69	32.88	56.15	-10.78	100.83
	0.00	0.56	0.00	0.28	0.00	0.84
4.05	-0.56	0.00	-0.28	0.00	-0.84	0.00
	9.89	71.88	32.00	55.54	-12.23	99.70
	18.73	132.70	59.32	102.53	-21.86	184.06
	25.96	182.46	81.67	140.98	-29.74	253.08
	31.59	221.16	99.05	170.88	-35.88	306.77
	35.61	248.81	111.47	192.24	-40.25	345.11
	38.02	265.40	118.91	205.06	-42.88	368.12
	39.13	265.40	119.47	205.06	-41.21	368.12
	36.72	248.81	112.02	192.24	-38.58	345.11
	32.70	221.16	99.61	170.88	-34.20	306.77
	27.08	182.46	82.23	140.98	-28.07	253.08
	19.85	132.70	59.88	102.53	-20.18	184.06
	11.01	71.88	32.56	55.54	-10.55	99.70
	0.00	0.56	0.00	0.28	0.00	0.84
4.10	-0.56	0.00	-0.28	0.00	-0.84	0.00
	9.84	71.08	31.69	54.94	-12.00	98.59
	18.64	131.23	58.74	101.43	-21.45	182.02
	25.85	180.44	80.88	139.47	-29.18	250.28
	31.45	218.72	98.09	169.05	-35.20	303.37
	35.45	246.06	110.39	190.18	-39.49	341.29
	37.85	262.46	117.76	202.86	-42.07	364.04
	38.97	262.46	118.32	202.86	-40.39	364.04
	36.56	246.06	110.94	190.18	-37.81	341.29
	32.56	218.72	98.65	169.05	-33.52	303.37
	26.96	180.44	81.43	139.47	-27.51	250.28
	19.76	131.23	59.30	101.43	-19.78	182.02
	10.96	71.08	32.25	54.94	-10.33	98.59
	0.00	0.56	0.00	0.28	0.00	0.84
4.15	-0.56	0.00	-0.28	0.00	-0.84	0.00
	9.80	70.31	31.39	54.36	-11.79	97.52
	18.56	129.80	58.18	100.36	-21.05	180.03
	25.73	178.47	80.10	137.99	-28.64	247.54
	31.31	216.33	97.15	167.26	-34.53	300.05
	35.29	243.37	109.33	188.17	-38.74	337.56

	37.68	259.60	116.64	200.72	-41.27	360.06
	38.80	259.60	117.20	200.72	-39.60	360.06
	36.41	243.37	109.89	188.17	-37.07	337.56
	32.43	216.33	97.71	167.26	-32.86	300.05
	26.85	178.47	80.66	137.99	-26.96	247.54
	19.68	129.80	58.74	100.36	-19.38	180.03
	10.92	70.31	31.95	54.36	-10.11	97.52
	0.00	0.56	0.00	0.28	0.00	0.84
4.20	-0.56	0.00	-0.28	0.00	-0.84	0.00
	9.76	69.55	31.09	53.79	-11.58	96.46
	18.48	128.40	57.63	99.31	-20.67	178.09
	25.62	176.55	79.35	136.55	-28.10	244.87
	31.18	214.00	96.24	165.52	-33.88	296.81
	35.14	240.75	108.31	186.21	-38.02	333.91
	37.53	256.80	115.54	198.62	-40.49	356.17
	38.64	256.80	116.10	198.62	-38.82	356.17
	36.26	240.75	108.86	186.21	-36.34	333.91
	32.30	214.00	96.80	165.52	-32.21	296.81
	26.74	176.55	79.91	136.55	-26.43	244.87
	19.60	128.40	58.19	99.31	-18.99	178.09
	10.87	69.55	31.65	53.79	-9.90	96.46
	0.00	0.56	0.00	0.28	0.00	0.84
4.25	-0.56	0.00	-0.28	0.00	-0.84	0.00
	9.71	68.81	30.80	53.24	-11.37	95.44
	18.41	127.04	57.10	98.29	-20.29	176.19
	25.52	174.68	78.61	135.15	-27.58	242.26
	31.05	211.73	95.35	163.82	-33.25	293.65
	35.00	238.20	107.30	184.29	-37.30	330.35
	37.37	254.08	114.47	196.58	-39.74	352.38
	38.49	254.08	115.03	196.58	-38.06	352.38
	36.12	238.20	107.86	184.29	-35.63	330.35
	32.17	211.73	95.91	163.82	-31.58	293.65
	26.63	174.68	79.17	135.15	-25.90	242.26
	19.52	127.04	57.66	98.29	-18.61	176.19
	10.83	68.81	31.36	53.24	-9.70	95.44
	0.00	0.56	0.00	0.28	0.00	0.84
4.30	-0.56	0.00	-0.28	0.00	-0.84	0.00
	9.67	68.09	30.52	52.70	-11.17	94.43
	18.33	125.71	56.58	97.29	-19.92	174.34
	25.41	172.85	77.90	133.78	-27.07	239.71
	30.92	209.51	94.48	162.15	-32.63	290.56
	34.86	235.70	106.32	182.42	-36.61	326.88
	37.22	251.41	113.43	194.58	-38.99	348.67
	38.34	251.41	113.99	194.58	-37.32	348.67
	35.97	235.70	106.88	182.42	-34.93	326.88

	32.04	209.51	95.04	162.15	-30.96	290.56
	26.53	172.85	78.45	133.78	-25.39	239.71
	19.45	125.71	57.13	97.29	-18.24	174.34
	10.79	68.09	31.08	52.70	-9.50	94.43
	0.00	0.56	0.00	0.28	0.00	0.84
4.35	-0.56	0.00	-0.28	0.00	-0.84	0.00
	9.63	67.39	30.24	52.17	-10.98	93.45
	18.26	124.40	56.06	96.32	-19.55	172.52
	25.31	171.06	77.19	132.43	-26.57	237.22
	30.80	207.34	93.63	160.53	-32.03	287.54
	34.72	233.26	105.37	180.59	-35.93	323.48
	37.07	248.81	112.41	192.63	-38.27	345.05
	38.19	248.81	112.97	192.63	-36.59	345.05
	35.84	233.26	105.92	180.59	-34.25	323.48
	31.92	207.34	94.19	160.53	-30.35	287.54
	26.43	171.06	77.75	132.43	-24.90	237.22
	19.37	124.40	56.62	96.32	-17.88	172.52
	10.75	67.39	30.80	52.17	-9.30	93.45
	0.00	0.56	0.00	0.28	0.00	0.84
4.40	-0.56	0.00	-0.28	0.00	-0.84	0.00
	9.59	66.70	29.97	51.66	-10.78	92.49
	18.18	123.13	55.57	95.36	-19.20	170.76
	25.21	169.31	76.51	131.13	-26.08	234.79
	30.68	205.22	92.80	158.94	-31.44	284.59
	34.58	230.87	104.43	178.81	-35.26	320.17
	36.93	246.26	111.41	190.73	-37.56	341.51
	38.04	246.26	111.97	190.73	-35.88	341.51
	35.70	230.87	104.99	178.81	-33.59	320.17
	31.80	205.22	93.36	158.94	-29.76	284.59
	26.33	169.31	77.07	131.13	-24.41	234.79
	19.30	123.13	56.13	95.36	-17.52	170.76
	10.71	66.70	30.53	51.66	-9.11	92.49
	0.00	0.56	0.00	0.28	0.00	0.84
4.45	-0.56	0.00	-0.28	0.00	-0.84	0.00
	9.56	66.02	29.71	51.15	-10.60	91.56
	18.11	121.89	55.08	94.43	-18.85	169.03
	25.12	167.60	75.84	129.84	-25.61	232.41
	30.56	203.15	91.99	157.39	-30.86	281.71
	34.45	228.54	103.52	177.06	-34.61	316.92
	36.79	243.78	110.44	188.86	-36.87	338.05
	37.90	243.78	111.00	188.86	-35.19	338.05
	35.57	228.54	104.08	177.06	-32.94	316.92
	31.68	203.15	92.54	157.39	-29.19	281.71
	26.23	167.60	76.40	129.84	-23.93	232.41
	19.23	121.89	55.64	94.43	-17.18	169.03

	10.67	66.02	30.27	51.15	-8.92	91.56
	0.00	0.56	0.00	0.28	0.00	0.84
4.50	-0.56	0.00	-0.28	0.00	-0.84	0.00
	9.52	65.36	29.45	50.66	-10.41	90.64
	18.05	120.67	54.60	93.52	-18.51	167.34
	25.02	165.93	75.18	128.59	-25.14	230.09
	30.45	201.12	91.19	155.87	-30.30	278.89
	34.32	226.26	102.63	175.35	-33.98	313.75
	36.65	241.35	109.49	187.04	-36.19	334.67
	37.77	241.35	110.04	187.04	-34.51	334.67
	35.44	226.26	103.18	175.35	-32.30	313.75
	31.56	201.12	91.75	155.87	-28.62	278.89
	26.14	165.93	75.74	128.59	-23.47	230.09
	19.16	120.67	55.16	93.52	-16.84	167.34
	10.64	65.36	30.01	50.66	-8.74	90.64
	0.00	0.56	0.00	0.28	0.00	0.84

En la Tabla 15 se muestran las combinaciones de esfuerzos para los montantes en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 15. Combinación de esfuerzos de los montantes - 14 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Mín (KN)	Máx(KN)	Mín (KN)	Máx(KN)	Mín (KN)	Máx(KN)
0.50	2.06	11.14	5.29	8.73	-1.16	15.44
	-122.57	-22.97	-96.00	-58.33	-169.80	12.39
	-100.28	-18.84	-78.55	-47.75	-138.93	10.07
	-78.00	-14.71	-61.09	-37.17	-108.05	7.74
	-55.71	-10.58	-43.64	-26.59	-77.18	5.42
	-33.43	-6.46	-26.18	-16.00	-46.31	3.09
	-11.14	-2.33	-8.73	-5.42	-15.44	0.77
	0.00	0.00	0.00	0.00	0.00	0.00
	-11.14	-1.80	-8.73	-5.16	-15.44	1.56
	-33.43	-5.93	-26.18	-15.74	-46.31	3.89
	-55.71	-10.05	-43.64	-26.32	-77.18	6.21
	-78.00	-14.18	-61.09	-36.90	-108.05	8.54
	-100.28	-18.31	-78.55	-47.48	-138.93	10.86
	-122.57	-22.44	-96.00	-58.07	-169.80	13.19
	2.06	11.14	5.29	8.73	-1.16	15.44
0.55	1.77	10.85	5.00	8.44	-1.45	15.04
	-119.36	-19.78	-92.79	-55.13	-165.46	15.57
	-97.66	-16.24	-75.92	-45.14	-135.38	12.66
	-75.96	-12.70	-59.05	-35.14	-105.30	9.75
	-54.25	-9.15	-42.18	-25.14	-75.21	6.84

	-32.55	-5.61	-25.31	-15.14	-45.13	3.93
	-10.85	-2.06	-8.44	-5.14	-15.04	1.02
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.85	-1.48	-8.44	-4.85	-15.04	1.89
	-32.55	-5.02	-25.31	-14.85	-45.13	4.80
	-54.25	-8.57	-42.18	-24.85	-75.21	7.71
	-75.96	-12.11	-59.05	-34.85	-105.30	10.62
	-97.66	-15.66	-75.92	-44.84	-135.38	13.53
	-119.36	-19.20	-92.79	-54.84	-165.46	16.44
	1.77	10.85	5.00	8.44	-1.45	15.04
0.60	1.63	10.71	4.85	8.29	-1.60	14.85
	-117.76	-18.21	-91.19	-53.55	-163.30	17.13
	-96.35	-14.96	-74.61	-43.84	-133.61	13.93
	-74.94	-11.70	-58.03	-34.13	-103.92	10.72
	-53.53	-8.45	-41.45	-24.43	-74.23	7.52
	-32.12	-5.20	-24.87	-14.72	-44.54	4.32
	-10.71	-1.94	-8.29	-5.01	-14.85	1.12
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.71	-1.31	-8.29	-4.69	-14.85	2.08
	-32.12	-4.56	-24.87	-14.40	-44.54	5.28
	-53.53	-7.81	-41.45	-24.11	-74.23	8.48
	-74.94	-11.07	-58.03	-33.81	-103.92	11.68
	-96.35	-14.32	-74.61	-43.52	-133.61	14.88
	-117.76	-17.57	-91.19	-53.23	-163.30	18.08
	1.63	10.71	4.85	8.29	-1.60	14.85
0.65	1.53	10.61	4.76	8.19	-1.70	14.72
	-116.69	-17.17	-90.13	-52.50	-161.87	18.15
	-95.48	-14.11	-73.74	-42.98	-132.44	14.76
	-74.26	-11.05	-57.35	-33.47	-103.01	11.36
	-53.04	-7.99	-40.97	-23.96	-73.58	7.97
	-31.83	-4.93	-24.58	-14.44	-44.15	4.57
	-10.61	-1.87	-8.19	-4.93	-14.72	1.18
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.61	-1.19	-8.19	-4.58	-14.72	2.21
	-31.83	-4.24	-24.58	-14.10	-44.15	5.61
	-53.04	-7.30	-40.97	-23.61	-73.58	9.00
	-74.26	-10.36	-57.35	-33.12	-103.01	12.40
	-95.48	-13.42	-73.74	-42.64	-132.44	15.79
	-116.69	-16.48	-90.13	-52.15	-161.87	19.18
	1.53	10.61	4.76	8.19	-1.70	14.72
0.70	1.36	10.44	4.59	8.03	-1.86	14.49
	-114.88	-15.38	-88.31	-50.69	-159.41	19.93
	-93.99	-12.65	-72.25	-41.51	-130.43	16.20
	-73.10	-9.92	-56.20	-32.32	-101.44	12.48
	-52.22	-7.19	-40.14	-23.14	-72.46	8.76

	-31.33	-4.46	-24.08	-13.96	-43.48	5.03
	-10.44	-1.74	-8.03	-4.78	-14.49	1.31
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.44	-0.99	-8.03	-4.41	-14.49	2.42
	-31.33	-3.72	-24.08	-13.59	-43.48	6.14
	-52.22	-6.45	-40.14	-22.77	-72.46	9.87
	-73.10	-9.18	-56.20	-31.95	-101.44	13.59
	-93.99	-11.91	-72.25	-41.14	-130.43	17.32
	-114.88	-14.64	-88.31	-50.32	-159.41	21.04
	1.36	10.44	4.59	8.03	-1.86	14.49
0.75	1.37	10.45	4.60	8.04	-1.85	14.51
	-114.98	-15.51	-88.42	-50.81	-159.56	19.78
	-94.08	-12.76	-72.34	-41.61	-130.55	16.08
	-73.17	-10.02	-56.26	-32.41	-101.54	12.37
	-52.26	-7.27	-40.19	-23.20	-72.53	8.67
	-31.36	-4.52	-24.11	-14.00	-43.52	4.96
	-10.45	-1.77	-8.04	-4.80	-14.51	1.26
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.45	-0.98	-8.04	-4.40	-14.51	2.45
	-31.36	-3.72	-24.11	-13.60	-43.52	6.15
	-52.26	-6.47	-40.19	-22.81	-72.53	9.86
	-73.17	-9.22	-56.26	-32.01	-101.54	13.57
	-94.08	-11.97	-72.34	-41.21	-130.55	17.27
	-114.98	-14.72	-88.42	-50.41	-159.56	20.98
	1.37	10.45	4.60	8.04	-1.85	14.51
0.80	1.31	10.39	4.53	7.97	-1.92	14.42
	-114.25	-14.81	-87.68	-50.09	-158.57	20.48
	-93.48	-12.19	-71.74	-41.02	-129.74	16.64
	-72.70	-9.58	-55.80	-31.95	-100.91	12.80
	-51.93	-6.96	-39.86	-22.88	-72.08	8.96
	-31.16	-4.35	-23.91	-13.82	-43.25	5.12
	-10.39	-1.73	-7.97	-4.75	-14.42	1.28
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.39	-0.88	-7.97	-4.32	-14.42	2.56
	-31.16	-3.50	-23.91	-13.39	-43.25	6.39
	-51.93	-6.11	-39.86	-22.46	-72.08	10.23
	-72.70	-8.73	-55.80	-31.53	-100.91	14.07
	-93.48	-11.34	-71.74	-40.60	-129.74	17.91
	-114.25	-13.96	-87.68	-49.67	-158.57	21.75
	1.31	10.39	4.53	7.97	-1.92	14.42
0.85	1.17	10.25	4.40	7.83	-2.06	14.23
	-112.75	-13.33	-86.18	-48.60	-156.54	21.94
	-92.25	-10.99	-70.51	-39.81	-128.08	17.83
	-71.75	-8.65	-54.84	-31.01	-99.62	13.72
	-51.25	-6.31	-39.17	-22.21	-71.15	9.60

	-30.75	-3.96	-23.50	-13.42	-42.69	5.49
	-10.25	-1.62	-7.83	-4.62	-14.23	1.38
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.25	-0.72	-7.83	-4.17	-14.23	2.73
	-30.75	-3.06	-23.50	-12.97	-42.69	6.84
	-51.25	-5.40	-39.17	-21.76	-71.15	10.96
	-71.75	-7.75	-54.84	-30.56	-99.62	15.07
	-92.25	-10.09	-70.51	-39.35	-128.08	19.18
	-112.75	-12.43	-86.18	-48.15	-156.54	23.29
	1.17	10.25	4.40	7.83	-2.06	14.23
0.90	1.18	10.26	4.41	7.84	-2.05	14.24
	-112.85	-13.47	-86.29	-48.72	-156.69	21.79
	-92.34	-11.10	-70.60	-39.91	-128.20	17.70
	-71.82	-8.74	-54.91	-31.09	-99.71	13.61
	-51.30	-6.38	-39.22	-22.28	-71.22	9.51
	-30.78	-4.02	-23.53	-13.46	-42.73	5.42
	-10.26	-1.66	-7.84	-4.65	-14.24	1.33
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.26	-0.70	-7.84	-4.17	-14.24	2.76
	-30.78	-3.07	-23.53	-12.98	-42.73	6.85
	-51.30	-5.43	-39.22	-21.80	-71.22	10.95
	-71.82	-7.79	-54.91	-30.62	-99.71	15.04
	-92.34	-10.15	-70.60	-39.43	-128.20	19.13
	-112.85	-12.51	-86.29	-48.25	-156.69	23.22
1.18	10.26	4.41	7.84	-2.05	14.24	
0.95	1.16	10.24	4.39	7.82	-2.07	14.21
	-112.62	-13.25	-86.05	-48.50	-156.36	21.99
	-92.14	-10.94	-70.41	-39.73	-127.93	17.85
	-71.66	-8.62	-54.76	-30.95	-99.50	13.72
	-51.19	-6.30	-39.11	-22.18	-71.07	9.58
	-30.71	-3.98	-23.47	-13.41	-42.64	5.45
	-10.24	-1.66	-7.82	-4.64	-14.21	1.31
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.24	-0.66	-7.82	-4.13	-14.21	2.82
	-30.71	-2.97	-23.47	-12.91	-42.64	6.96
	-51.19	-5.29	-39.11	-21.68	-71.07	11.09
	-71.66	-7.61	-54.76	-30.45	-99.50	15.23
	-92.14	-9.93	-70.41	-39.22	-127.93	19.36
	-112.62	-12.25	-86.05	-47.99	-156.36	23.50
1.16	10.24	4.39	7.82	-2.07	14.21	
1.00	1.11	10.18	4.33	7.77	-2.12	14.14
	-112.03	-12.70	-85.47	-47.93	-155.57	22.53
	-91.66	-10.48	-69.93	-39.26	-127.29	18.29
	-71.29	-8.27	-54.39	-30.60	-99.00	14.05
	-50.92	-6.06	-38.85	-21.93	-70.72	9.81

	-30.55	-3.85	-23.31	-13.26	-42.43	5.57
	-10.18	-1.64	-7.77	-4.60	-14.14	1.33
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.18	-0.58	-7.77	-4.07	-14.14	2.92
	-30.55	-2.79	-23.31	-12.73	-42.43	7.16
	-50.92	-5.00	-38.85	-21.40	-70.72	11.40
	-71.29	-7.21	-54.39	-30.07	-99.00	15.64
	-91.66	-9.42	-69.93	-38.73	-127.29	19.88
	-112.03	-11.64	-85.47	-47.40	-155.57	24.12
	1.11	10.18	4.33	7.77	-2.12	14.14
1.05	1.12	10.19	4.34	7.78	-2.11	14.16
	-112.14	-12.83	-85.58	-48.05	-155.72	22.38
	-91.75	-10.60	-70.02	-39.36	-127.41	18.16
	-71.36	-8.37	-54.46	-30.68	-99.10	13.94
	-50.97	-6.14	-38.90	-21.99	-70.78	9.72
	-30.58	-3.90	-23.34	-13.31	-42.47	5.50
	-10.19	-1.67	-7.78	-4.62	-14.16	1.28
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.19	-0.56	-7.78	-4.06	-14.16	2.95
	-30.58	-2.79	-23.34	-12.75	-42.47	7.17
	-50.97	-5.02	-38.90	-21.44	-70.78	11.39
	-71.36	-7.26	-54.46	-30.12	-99.10	15.61
	-91.75	-9.49	-70.02	-38.81	-127.41	19.83
	-112.14	-11.72	-85.58	-47.49	-155.72	24.05
	1.12	10.19	4.34	7.78	-2.11	14.16
1.10	1.13	10.20	4.35	7.79	-2.10	14.17
	-112.25	-12.97	-85.69	-48.17	-155.87	22.23
	-91.84	-10.72	-70.11	-39.47	-127.53	18.03
	-71.43	-8.47	-54.53	-30.76	-99.19	13.83
	-51.02	-6.21	-38.95	-22.06	-70.85	9.63
	-30.61	-3.96	-23.37	-13.35	-42.51	5.43
	-10.20	-1.71	-7.79	-4.64	-14.17	1.23
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.20	-0.54	-7.79	-4.06	-14.17	2.98
	-30.61	-2.80	-23.37	-12.77	-42.51	7.18
	-51.02	-5.05	-38.95	-21.47	-70.85	11.38
	-71.43	-7.30	-54.53	-30.18	-99.19	15.58
	-91.84	-9.55	-70.11	-38.89	-127.53	19.78
	-112.25	-11.81	-85.69	-47.59	-155.87	23.98
	1.13	10.20	4.35	7.79	-2.10	14.17
1.15	1.07	10.15	4.30	7.73	-2.16	14.10
	-111.64	-12.38	-85.08	-47.58	-155.05	22.81
	-91.34	-10.24	-69.61	-38.98	-126.86	18.49
	-71.04	-8.10	-54.14	-30.39	-98.67	14.18
	-50.75	-5.96	-38.67	-21.79	-70.48	9.87

	-30.45	-3.82	-23.20	-13.20	-42.29	5.55
	-10.15	-1.68	-7.73	-4.60	-14.10	1.24
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.15	-0.46	-7.73	-3.99	-14.10	3.07
	-30.45	-2.60	-23.20	-12.59	-42.29	7.38
	-50.75	-4.74	-38.67	-21.18	-70.48	11.70
	-71.04	-6.88	-54.14	-29.78	-98.67	16.01
	-91.34	-9.02	-69.61	-38.37	-126.86	20.32
	-111.64	-11.17	-85.08	-46.97	-155.05	24.63
	1.07	10.15	4.30	7.73	-2.16	14.10
1.20	1.08	10.16	4.31	7.74	-2.15	14.11
	-111.75	-12.53	-85.19	-47.70	-155.20	22.65
	-91.44	-10.36	-69.70	-39.09	-126.98	18.36
	-71.12	-8.20	-54.21	-30.47	-98.76	14.07
	-50.80	-6.04	-38.72	-21.86	-70.55	9.78
	-30.48	-3.88	-23.23	-13.24	-42.33	5.48
	-10.16	-1.72	-7.74	-4.63	-14.11	1.19
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.16	-0.44	-7.74	-3.99	-14.11	3.10
	-30.48	-2.61	-23.23	-12.61	-42.33	7.39
	-50.80	-4.77	-38.72	-21.22	-70.55	11.68
	-71.12	-6.93	-54.21	-29.84	-98.76	15.98
	-91.44	-9.09	-69.70	-38.45	-126.98	20.27
	-111.75	-11.25	-85.19	-47.07	-155.20	24.56
	1.08	10.16	4.31	7.74	-2.15	14.11
1.25	1.06	10.14	4.29	7.72	-2.17	14.08
	-111.53	-12.33	-84.97	-47.49	-154.90	22.83
	-91.25	-10.21	-69.52	-38.92	-126.74	18.50
	-70.98	-8.09	-54.07	-30.34	-98.57	14.17
	-50.70	-5.97	-38.62	-21.77	-70.41	9.84
	-30.42	-3.84	-23.17	-13.19	-42.25	5.50
	-10.14	-1.72	-7.72	-4.62	-14.08	1.17
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.14	-0.40	-7.72	-3.96	-14.08	3.16
	-30.42	-2.52	-23.17	-12.53	-42.25	7.49
	-50.70	-4.64	-38.62	-21.11	-70.41	11.82
	-70.98	-6.76	-54.07	-29.68	-98.57	16.16
	-91.25	-8.88	-69.52	-38.26	-126.74	20.49
	-111.53	-11.01	-84.97	-46.83	-154.90	24.82
	1.06	10.14	4.29	7.72	-2.17	14.08
1.30	1.07	10.14	4.29	7.73	-2.16	14.09
	-111.59	-12.41	-85.02	-47.56	-154.98	22.74
	-91.30	-10.28	-69.57	-38.98	-126.80	18.42
	-71.01	-8.15	-54.11	-30.39	-98.62	14.09
	-50.72	-6.02	-38.65	-21.81	-70.44	9.77

	-30.43	-3.89	-23.19	-13.22	-42.27	5.45
	-10.14	-1.75	-7.73	-4.64	-14.09	1.13
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.14	-0.38	-7.73	-3.95	-14.09	3.19
	-30.43	-2.51	-23.19	-12.53	-42.27	7.52
	-50.72	-4.64	-38.65	-21.12	-70.44	11.84
	-71.01	-6.77	-54.11	-29.70	-98.62	16.16
	-91.30	-8.90	-69.57	-38.29	-126.80	20.48
	-111.59	-11.03	-85.02	-46.87	-154.98	24.81
	1.07	10.14	4.29	7.73	-2.16	14.09
1.35	1.08	10.15	4.30	7.74	-2.15	14.10
	-111.70	-12.55	-85.14	-47.69	-155.13	22.58
	-91.39	-10.40	-69.66	-39.08	-126.92	18.28
	-71.08	-8.25	-54.18	-30.48	-98.72	13.98
	-50.77	-6.10	-38.70	-21.87	-70.51	9.68
	-30.46	-3.94	-23.22	-13.27	-42.31	5.38
	-10.15	-1.79	-7.74	-4.66	-14.10	1.08
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.15	-0.36	-7.74	-3.95	-14.10	3.22
	-30.46	-2.51	-23.22	-12.55	-42.31	7.53
	-50.77	-4.67	-38.70	-21.16	-70.51	11.83
	-71.08	-6.82	-54.18	-29.76	-98.72	16.13
	-91.39	-8.97	-69.66	-38.37	-126.92	20.43
	-111.70	-11.12	-85.14	-46.98	-155.13	24.73
	1.08	10.15	4.30	7.74	-2.15	14.10
1.40	1.00	10.08	4.22	7.66	-2.23	14.00
	-110.84	-11.71	-84.27	-46.84	-153.96	23.41
	-90.68	-9.72	-68.95	-38.39	-125.97	18.95
	-70.53	-7.72	-53.63	-29.94	-97.97	14.49
	-50.38	-5.73	-38.30	-21.49	-69.98	10.03
	-30.23	-3.73	-22.98	-13.04	-41.99	5.58
	-10.08	-1.74	-7.66	-4.60	-14.00	1.12
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.08	-0.26	-7.66	-3.85	-14.00	3.34
	-30.23	-2.25	-22.98	-12.30	-41.99	7.80
	-50.38	-4.24	-38.30	-20.75	-69.98	12.26
	-70.53	-6.24	-53.63	-29.20	-97.97	16.72
	-90.68	-8.23	-68.95	-37.65	-125.97	21.18
	-110.84	-10.23	-84.27	-46.09	-153.96	25.64
	1.00	10.08	4.22	7.66	-2.23	14.00
1.45	1.01	10.09	4.23	7.67	-2.22	14.01
	-110.95	-11.85	-84.38	-46.96	-154.11	23.26
	-90.78	-9.84	-69.04	-38.49	-126.09	18.82
	-70.60	-7.82	-53.70	-30.02	-98.07	14.38
	-50.43	-5.81	-38.36	-21.56	-70.05	9.94

	-30.26	-3.79	-23.01	-13.09	-42.03	5.51
	-10.09	-1.78	-7.67	-4.62	-14.01	1.07
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.09	-0.24	-7.67	-3.85	-14.01	3.37
	-30.26	-2.25	-23.01	-12.32	-42.03	7.81
	-50.43	-4.27	-38.36	-20.79	-70.05	12.25
	-70.60	-6.28	-53.70	-29.26	-98.07	16.69
	-90.78	-8.30	-69.04	-37.72	-126.09	21.13
	-110.95	-10.31	-84.38	-46.19	-154.11	25.57
	1.01	10.09	4.23	7.67	-2.22	14.01
1.50	1.02	10.10	4.24	7.68	-2.21	14.02
	-111.06	-11.99	-84.50	-47.09	-154.26	23.11
	-90.87	-9.96	-69.13	-38.60	-126.22	18.69
	-70.68	-7.92	-53.77	-30.11	-98.17	14.27
	-50.48	-5.88	-38.41	-21.62	-70.12	9.85
	-30.29	-3.85	-23.04	-13.13	-42.07	5.43
	-10.10	-1.81	-7.68	-4.64	-14.02	1.02
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.10	-0.22	-7.68	-3.85	-14.02	3.40
	-30.29	-2.26	-23.04	-12.34	-42.07	7.82
	-50.48	-4.29	-38.41	-20.83	-70.12	12.24
	-70.68	-6.33	-53.77	-29.31	-98.17	16.66
	-90.87	-8.37	-69.13	-37.80	-126.22	21.07
	-111.06	-10.40	-84.50	-46.29	-154.26	25.49
	1.02	10.10	4.24	7.68	-2.21	14.02
1.55	1.03	10.11	4.26	7.69	-2.20	14.04
	-111.18	-12.13	-84.61	-47.22	-154.42	22.95
	-90.96	-10.07	-69.23	-38.71	-126.34	18.56
	-70.75	-8.02	-53.84	-30.20	-98.27	14.16
	-50.53	-5.96	-38.46	-21.69	-70.19	9.76
	-30.32	-3.91	-23.08	-13.18	-42.11	5.36
	-10.11	-1.85	-7.69	-4.67	-14.04	0.97
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.11	-0.21	-7.69	-3.84	-14.04	3.43
	-30.32	-2.26	-23.08	-12.35	-42.11	7.83
	-50.53	-4.32	-38.46	-20.86	-70.19	12.23
	-70.75	-6.38	-53.84	-29.37	-98.27	16.62
	-90.96	-8.43	-69.23	-37.88	-126.34	21.02
	-111.18	-10.49	-84.61	-46.39	-154.42	25.42
	1.03	10.11	4.26	7.69	-2.20	14.04
1.60	1.03	10.11	4.25	7.69	-2.20	14.04
	-111.17	-12.16	-84.61	-47.23	-154.42	22.91
	-90.96	-10.10	-69.23	-38.72	-126.34	18.52
	-70.75	-8.04	-53.84	-30.21	-98.27	14.12
	-50.53	-5.99	-38.46	-21.70	-70.19	9.72

	-30.32	-3.93	-23.08	-13.19	-42.11	5.32
	-10.11	-1.88	-7.69	-4.68	-14.04	0.93
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.11	-0.18	-7.69	-3.83	-14.04	3.47
	-30.32	-2.24	-23.08	-12.34	-42.11	7.87
	-50.53	-4.29	-38.46	-20.85	-70.19	12.27
	-70.75	-6.35	-53.84	-29.36	-98.27	16.66
	-90.96	-8.40	-69.23	-37.87	-126.34	21.06
	-111.17	-10.46	-84.61	-46.38	-154.42	25.46
	1.03	10.11	4.25	7.69	-2.20	14.04
1.65	1.04	10.12	4.27	7.70	-2.19	14.05
	-111.29	-12.30	-84.73	-47.36	-154.57	22.76
	-91.06	-10.22	-69.32	-38.83	-126.47	18.38
	-70.82	-8.14	-53.92	-30.30	-98.36	14.01
	-50.59	-6.07	-38.51	-21.76	-70.26	9.63
	-30.35	-3.99	-23.11	-13.23	-42.16	5.25
	-10.12	-1.91	-7.70	-4.70	-14.05	0.88
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.12	-0.16	-7.70	-3.83	-14.05	3.50
	-30.35	-2.24	-23.11	-12.36	-42.16	7.88
	-50.59	-4.32	-38.51	-20.89	-70.26	12.25
	-70.82	-6.40	-53.92	-29.42	-98.36	16.63
	-91.06	-8.47	-69.32	-37.95	-126.47	21.01
	-111.29	-10.55	-84.73	-46.48	-154.57	25.38
	1.04	10.12	4.27	7.70	-2.19	14.05
1.70	1.05	10.13	4.28	7.71	-2.18	14.07
	-111.41	-12.44	-84.84	-47.49	-154.73	22.60
	-91.15	-10.34	-69.42	-38.94	-126.60	18.25
	-70.90	-8.25	-53.99	-30.38	-98.46	13.89
	-50.64	-6.15	-38.56	-21.83	-70.33	9.54
	-30.38	-4.05	-23.14	-13.28	-42.20	5.18
	-10.13	-1.95	-7.71	-4.73	-14.07	0.83
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.13	-0.15	-7.71	-3.83	-14.07	3.53
	-30.38	-2.25	-23.14	-12.38	-42.20	7.88
	-50.64	-4.35	-38.56	-20.93	-70.33	12.24
	-70.90	-6.44	-53.99	-29.48	-98.46	16.59
	-91.15	-8.54	-69.42	-38.03	-126.60	20.95
	-111.41	-10.64	-84.84	-46.59	-154.73	25.31
	1.05	10.13	4.28	7.71	-2.18	14.07
1.75	1.01	10.09	4.23	7.67	-2.22	14.01
	-110.95	-12.01	-84.38	-47.04	-154.11	23.02
	-90.77	-9.99	-69.04	-38.57	-126.09	18.58
	-70.60	-7.98	-53.70	-30.10	-98.07	14.14
	-50.43	-5.96	-38.36	-21.63	-70.05	9.71

	-30.26	-3.95	-23.01	-13.17	-42.03	5.27
	-10.09	-1.93	-7.67	-4.70	-14.01	0.83
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.09	-0.08	-7.67	-3.77	-14.01	3.61
	-30.26	-2.09	-23.01	-12.24	-42.03	8.05
	-50.43	-4.11	-38.36	-20.71	-70.05	12.49
	-70.60	-6.12	-53.70	-29.18	-98.07	16.93
	-90.77	-8.14	-69.04	-37.64	-126.09	21.37
	-110.95	-10.15	-84.38	-46.11	-154.11	25.81
	1.01	10.09	4.23	7.67	-2.22	14.01
1.80	1.02	10.10	4.24	7.68	-2.21	14.02
	-111.06	-12.15	-84.50	-47.17	-154.27	22.86
	-90.87	-10.12	-69.14	-38.68	-126.22	18.45
	-70.68	-8.08	-53.77	-30.19	-98.17	14.03
	-50.48	-6.04	-38.41	-21.70	-70.12	9.61
	-30.29	-4.01	-23.05	-13.21	-42.07	5.20
	-10.10	-1.97	-7.68	-4.72	-14.02	0.78
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.10	-0.06	-7.68	-3.77	-14.02	3.64
	-30.29	-2.10	-23.05	-12.26	-42.07	8.06
	-50.48	-4.14	-38.41	-20.75	-70.12	12.47
	-70.68	-6.17	-53.77	-29.24	-98.17	16.89
	-90.87	-8.21	-69.14	-37.73	-126.22	21.31
	-111.06	-10.25	-84.50	-46.22	-154.27	25.73
	1.02	10.10	4.24	7.68	-2.21	14.02
1.85	1.03	10.11	4.26	7.69	-2.20	14.04
	-111.18	-12.30	-84.62	-47.30	-154.43	22.71
	-90.97	-10.24	-69.23	-38.79	-126.35	18.31
	-70.75	-8.18	-53.85	-30.28	-98.27	13.91
	-50.54	-6.13	-38.46	-21.77	-70.20	9.52
	-30.32	-4.07	-23.08	-13.26	-42.12	5.12
	-10.11	-2.01	-7.69	-4.75	-14.04	0.73
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.11	-0.05	-7.69	-3.77	-14.04	3.67
	-30.32	-2.11	-23.08	-12.28	-42.12	8.06
	-50.54	-4.16	-38.46	-20.79	-70.20	12.46
	-70.75	-6.22	-53.85	-29.30	-98.27	16.86
	-90.97	-8.28	-69.23	-37.81	-126.35	21.25
	-111.18	-10.34	-84.62	-46.32	-154.43	25.65
	1.03	10.11	4.26	7.69	-2.20	14.04
1.90	1.04	10.12	4.27	7.70	-2.19	14.05
	-111.30	-12.44	-84.74	-47.44	-154.59	22.55
	-91.07	-10.36	-69.33	-38.90	-126.48	18.17
	-70.83	-8.29	-53.92	-30.37	-98.38	13.80
	-50.59	-6.21	-38.52	-21.84	-70.27	9.42

	-30.36	-4.13	-23.11	-13.30	-42.16	5.05
	-10.12	-2.05	-7.70	-4.77	-14.05	0.68
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.12	-0.03	-7.70	-3.76	-14.05	3.70
	-30.36	-2.11	-23.11	-12.30	-42.16	8.07
	-50.59	-4.19	-38.52	-20.83	-70.27	12.45
	-70.83	-6.27	-53.92	-29.36	-98.38	16.82
	-91.07	-8.35	-69.33	-37.90	-126.48	21.19
	-111.30	-10.43	-84.74	-46.43	-154.59	25.57
	1.04	10.12	4.27	7.70	-2.19	14.05
1.95	1.05	10.13	4.28	7.71	-2.18	14.07
	-111.42	-12.59	-84.86	-47.57	-154.75	22.39
	-91.16	-10.49	-69.43	-39.01	-126.62	18.04
	-70.91	-8.39	-54.00	-30.46	-98.48	13.68
	-50.65	-6.29	-38.57	-21.90	-70.34	9.33
	-30.39	-4.19	-23.14	-13.35	-42.21	4.98
	-10.13	-2.08	-7.71	-4.79	-14.07	0.63
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.13	-0.02	-7.71	-3.76	-14.07	3.73
	-30.39	-2.12	-23.14	-12.32	-42.21	8.08
	-50.65	-4.22	-38.57	-20.87	-70.34	12.43
	-70.91	-6.32	-54.00	-29.43	-98.48	16.78
	-91.16	-8.42	-69.43	-37.98	-126.62	21.14
	-111.42	-10.52	-84.86	-46.54	-154.75	25.49
	1.05	10.13	4.28	7.71	-2.18	14.07
2.00	1.06	10.14	4.29	7.73	-2.17	14.08
	-111.54	-12.74	-84.98	-47.70	-154.92	22.23
	-91.26	-10.62	-69.53	-39.13	-126.75	17.90
	-70.98	-8.49	-54.08	-30.55	-98.58	13.57
	-50.70	-6.37	-38.63	-21.97	-70.42	9.24
	-30.42	-4.25	-23.18	-13.40	-42.25	4.91
	-10.14	-2.12	-7.73	-4.82	-14.08	0.58
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.14	0.00	-7.73	-3.76	-14.08	3.76
	-30.42	-2.13	-23.18	-12.34	-42.25	8.09
	-50.70	-4.25	-38.63	-20.91	-70.42	12.42
	-70.98	-6.37	-54.08	-29.49	-98.58	16.75
	-91.26	-8.50	-69.53	-38.07	-126.75	21.08
	-111.54	-10.62	-84.98	-46.64	-154.92	25.41
	1.06	10.14	4.29	7.73	-2.17	14.08
2.05	1.07	10.15	4.30	7.74	-2.15	14.10
	-111.67	-12.89	-85.10	-47.84	-155.08	22.07
	-91.36	-10.74	-69.63	-39.24	-126.88	17.76
	-71.06	-8.60	-54.15	-30.64	-98.69	13.45
	-50.76	-6.45	-38.68	-22.04	-70.49	9.14

	-30.45	-4.30	-23.21	-13.44	-42.29	4.83
	-10.15	-2.16	-7.74	-4.84	-14.10	0.52
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.15	0.01	-7.74	-3.76	-14.10	3.78
	-30.45	-2.13	-23.21	-12.36	-42.29	8.09
	-50.76	-4.28	-38.68	-20.95	-70.49	12.40
	-71.06	-6.42	-54.15	-29.55	-98.69	16.71
	-91.36	-8.57	-69.63	-38.15	-126.88	21.02
	-111.67	-10.71	-85.10	-46.75	-155.08	25.33
	1.07	10.15	4.30	7.74	-2.15	14.10
2.10	1.08	10.16	4.31	7.75	-2.14	14.11
	-111.79	-13.03	-85.22	-47.97	-155.24	21.90
	-91.46	-10.87	-69.73	-39.35	-127.02	17.62
	-71.14	-8.70	-54.23	-30.73	-98.79	13.33
	-50.81	-6.53	-38.74	-22.11	-70.57	9.05
	-30.49	-4.36	-23.24	-13.49	-42.34	4.76
	-10.16	-2.20	-7.75	-4.87	-14.11	0.47
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.16	0.03	-7.75	-3.75	-14.11	3.81
	-30.49	-2.14	-23.24	-12.38	-42.34	8.10
	-50.81	-4.31	-38.74	-21.00	-70.57	12.38
	-71.14	-6.47	-54.23	-29.62	-98.79	16.67
	-91.46	-8.64	-69.73	-38.24	-127.02	20.96
	-111.79	-10.81	-85.22	-46.86	-155.24	25.24
	1.08	10.16	4.31	7.75	-2.14	14.11
2.15	1.09	10.17	4.32	7.76	-2.13	14.13
	-111.91	-13.18	-85.34	-48.11	-155.41	21.74
	-91.56	-10.99	-69.83	-39.47	-127.15	17.48
	-71.22	-8.80	-54.31	-30.82	-98.90	13.21
	-50.87	-6.61	-38.79	-22.18	-70.64	8.95
	-30.52	-4.42	-23.28	-13.54	-42.38	4.69
	-10.17	-2.23	-7.76	-4.89	-14.13	0.42
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.17	0.04	-7.76	-3.75	-14.13	3.84
	-30.52	-2.15	-23.28	-12.40	-42.38	8.10
	-50.87	-4.34	-38.79	-21.04	-70.64	12.37
	-71.22	-6.53	-54.31	-29.68	-98.90	16.63
	-91.56	-8.71	-69.83	-38.33	-127.15	20.90
	-111.91	-10.90	-85.34	-46.97	-155.41	25.16
	1.09	10.17	4.32	7.76	-2.13	14.13
2.20	1.11	10.18	4.33	7.77	-2.12	14.14
	-112.03	-13.33	-85.47	-48.25	-155.58	21.58
	-91.66	-11.12	-69.93	-39.58	-127.29	17.34
	-71.29	-8.91	-54.39	-30.91	-99.00	13.10
	-50.92	-6.70	-38.85	-22.25	-70.72	8.85

	-30.55	-4.48	-23.31	-13.58	-42.43	4.61
	-10.18	-2.27	-7.77	-4.92	-14.14	0.37
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.18	0.06	-7.77	-3.75	-14.14	3.87
	-30.55	-2.15	-23.31	-12.42	-42.43	8.11
	-50.92	-4.36	-38.85	-21.08	-70.72	12.35
	-71.29	-6.58	-54.39	-29.75	-99.00	16.59
	-91.66	-8.79	-69.93	-38.41	-127.29	20.84
	-112.03	-11.00	-85.47	-47.08	-155.58	25.08
	1.11	10.18	4.33	7.77	-2.12	14.14
2.25	1.12	10.20	4.34	7.78	-2.11	14.16
	-112.16	-13.48	-85.59	-48.38	-155.74	21.42
	-91.76	-11.25	-70.03	-39.69	-127.43	17.20
	-71.37	-9.01	-54.47	-31.01	-99.11	12.98
	-50.98	-6.78	-38.91	-22.32	-70.79	8.76
	-30.59	-4.54	-23.34	-13.63	-42.48	4.54
	-10.20	-2.31	-7.78	-4.94	-14.16	0.32
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.20	0.08	-7.78	-3.75	-14.16	3.90
	-30.59	-2.16	-23.34	-12.44	-42.48	8.12
	-50.98	-4.39	-38.91	-21.12	-70.79	12.34
	-71.37	-6.63	-54.47	-29.81	-99.11	16.56
	-91.76	-8.86	-70.03	-38.50	-127.43	20.77
	-112.16	-11.10	-85.59	-47.19	-155.74	24.99
	1.12	10.20	4.34	7.78	-2.11	14.16
2.30	1.13	10.21	4.36	7.79	-2.10	14.17
	-112.28	-13.63	-85.72	-48.52	-155.91	21.25
	-91.87	-11.38	-70.13	-39.81	-127.56	17.06
	-71.45	-9.12	-54.55	-31.10	-99.22	12.86
	-51.04	-6.86	-38.96	-22.39	-70.87	8.66
	-30.62	-4.60	-23.38	-13.68	-42.52	4.47
	-10.21	-2.35	-7.79	-4.97	-14.17	0.27
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.21	0.09	-7.79	-3.75	-14.17	3.93
	-30.62	-2.17	-23.38	-12.46	-42.52	8.12
	-51.04	-4.42	-38.96	-21.17	-70.87	12.32
	-71.45	-6.68	-54.55	-29.88	-99.22	16.52
	-91.87	-8.94	-70.13	-38.59	-127.56	20.71
	-112.28	-11.20	-85.72	-47.30	-155.91	24.91
	1.13	10.21	4.36	7.79	-2.10	14.17
2.35	1.14	10.22	4.37	7.80	-2.09	14.19
	-112.41	-13.79	-85.84	-48.66	-156.08	21.09
	-91.97	-11.51	-70.23	-39.92	-127.70	16.91
	-71.53	-9.23	-54.63	-31.19	-99.32	12.74
	-51.09	-6.95	-39.02	-22.46	-70.94	8.57

	-30.66	-4.67	-23.41	-13.72	-42.57	4.39
	-10.22	-2.39	-7.80	-4.99	-14.19	0.22
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.22	0.11	-7.80	-3.74	-14.19	3.96
	-30.66	-2.17	-23.41	-12.48	-42.57	8.13
	-51.09	-4.45	-39.02	-21.21	-70.94	12.30
	-71.53	-6.73	-54.63	-29.95	-99.32	16.48
	-91.97	-9.01	-70.23	-38.68	-127.70	20.65
	-112.41	-11.29	-85.84	-47.41	-156.08	24.82
	1.14	10.22	4.37	7.80	-2.09	14.19
2.40	1.15	10.23	4.38	7.82	-2.08	14.20
	-112.53	-13.94	-85.97	-48.80	-156.25	20.92
	-92.07	-11.63	-70.34	-40.04	-127.84	16.77
	-71.61	-9.33	-54.71	-31.28	-99.43	12.62
	-51.15	-7.03	-39.08	-22.53	-71.02	8.47
	-30.69	-4.73	-23.45	-13.77	-42.61	4.32
	-10.23	-2.42	-7.82	-5.01	-14.20	0.17
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.23	0.12	-7.82	-3.74	-14.20	3.98
	-30.69	-2.18	-23.45	-12.50	-42.61	8.13
	-51.15	-4.48	-39.08	-21.26	-71.02	12.29
	-71.61	-6.79	-54.71	-30.01	-99.43	16.44
	-92.07	-9.09	-70.34	-38.77	-127.84	20.59
	-112.53	-11.39	-85.97	-47.52	-156.25	24.74
	1.15	10.23	4.38	7.82	-2.08	14.20
2.45	1.16	10.24	4.39	7.83	-2.06	14.22
	-112.66	-14.09	-86.09	-48.94	-156.42	20.76
	-92.17	-11.76	-70.44	-40.16	-127.98	16.63
	-71.69	-9.44	-54.79	-31.38	-99.54	12.50
	-51.21	-7.11	-39.13	-22.60	-71.10	8.37
	-30.72	-4.79	-23.48	-13.82	-42.66	4.24
	-10.24	-2.46	-7.83	-5.04	-14.22	0.12
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.24	0.14	-7.83	-3.74	-14.22	4.01
	-30.72	-2.19	-23.48	-12.52	-42.66	8.14
	-51.21	-4.52	-39.13	-21.30	-71.10	12.27
	-71.69	-6.84	-54.79	-30.08	-99.54	16.40
	-92.17	-9.17	-70.44	-38.86	-127.98	20.52
	-112.66	-11.49	-86.09	-47.64	-156.42	24.65
	1.16	10.24	4.39	7.83	-2.06	14.22
2.50	1.17	10.25	4.40	7.84	-2.05	14.24
	-112.78	-14.24	-86.22	-49.07	-156.59	20.59
	-92.28	-11.89	-70.54	-40.27	-128.12	16.49
	-71.77	-9.54	-54.87	-31.47	-99.65	12.38
	-51.26	-7.20	-39.19	-22.67	-71.18	8.28

	-30.76	-4.85	-23.51	-13.87	-42.71	4.17
	-10.25	-2.50	-7.84	-5.06	-14.24	0.07
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.25	0.15	-7.84	-3.74	-14.24	4.04
	-30.76	-2.20	-23.51	-12.54	-42.71	8.15
	-51.26	-4.55	-39.19	-21.34	-71.18	12.25
	-71.77	-6.89	-54.87	-30.15	-99.65	16.36
	-92.28	-9.24	-70.54	-38.95	-128.12	20.46
	-112.78	-11.59	-86.22	-47.75	-156.59	24.57
	1.17	10.25	4.40	7.84	-2.05	14.24
2.55	1.19	10.26	4.41	7.85	-2.04	14.25
	-112.91	-14.39	-86.34	-49.21	-156.76	20.42
	-92.38	-12.02	-70.64	-40.39	-128.26	16.34
	-71.85	-9.65	-54.95	-31.56	-99.76	12.26
	-51.32	-7.28	-39.25	-22.74	-71.25	8.18
	-30.79	-4.91	-23.55	-13.91	-42.75	4.10
	-10.26	-2.54	-7.85	-5.09	-14.25	0.01
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.26	0.17	-7.85	-3.74	-14.25	4.07
	-30.79	-2.21	-23.55	-12.56	-42.75	8.15
	-51.32	-4.58	-39.25	-21.39	-71.25	12.23
	-71.85	-6.95	-54.95	-30.21	-99.76	16.31
	-92.38	-9.32	-70.64	-39.04	-128.26	20.40
	-112.91	-11.69	-86.34	-47.86	-156.76	24.48
	1.19	10.26	4.41	7.85	-2.04	14.25
2.60	1.20	10.28	4.42	7.86	-2.03	14.27
	-113.04	-14.55	-86.47	-49.35	-156.93	20.26
	-92.48	-12.15	-70.75	-40.51	-128.40	16.20
	-71.93	-9.76	-55.03	-31.66	-99.86	12.14
	-51.38	-7.36	-39.30	-22.81	-71.33	8.08
	-30.83	-4.97	-23.58	-13.96	-42.80	4.02
	-10.28	-2.58	-7.86	-5.11	-14.27	-0.04
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.28	0.18	-7.86	-3.74	-14.27	4.10
	-30.83	-2.21	-23.58	-12.58	-42.80	8.16
	-51.38	-4.61	-39.30	-21.43	-71.33	12.21
	-71.93	-7.00	-55.03	-30.28	-99.86	16.27
	-92.48	-9.40	-70.75	-39.13	-128.40	20.33
	-113.04	-11.79	-86.47	-47.98	-156.93	24.39
	1.20	10.28	4.42	7.86	-2.03	14.27
2.65	1.21	10.29	4.44	7.87	-2.02	14.28
	-113.16	-14.70	-86.60	-49.50	-157.10	20.09
	-92.59	-12.28	-70.85	-40.62	-128.54	16.05
	-72.01	-9.87	-55.11	-31.75	-99.97	12.02
	-51.44	-7.45	-39.36	-22.88	-71.41	7.98

	-30.86	-5.03	-23.62	-14.01	-42.85	3.95
	-10.29	-2.61	-7.87	-5.14	-14.28	-0.09
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.29	0.20	-7.87	-3.73	-14.28	4.12
	-30.86	-2.22	-23.62	-12.60	-42.85	8.16
	-51.44	-4.64	-39.36	-21.48	-71.41	12.20
	-72.01	-7.06	-55.11	-30.35	-99.97	16.23
	-92.59	-9.48	-70.85	-39.22	-128.54	20.27
	-113.16	-11.89	-86.60	-48.09	-157.10	24.30
	1.21	10.29	4.44	7.87	-2.02	14.28
2.70	1.22	10.30	4.45	7.88	-2.01	14.30
	-113.29	-14.86	-86.73	-49.64	-157.27	19.92
	-92.69	-12.42	-70.96	-40.74	-128.68	15.91
	-72.09	-9.97	-55.19	-31.85	-100.08	11.90
	-51.50	-7.53	-39.42	-22.95	-71.49	7.89
	-30.90	-5.09	-23.65	-14.06	-42.89	3.87
	-10.30	-2.65	-7.88	-5.16	-14.30	-0.14
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.30	0.21	-7.88	-3.73	-14.30	4.15
	-30.90	-2.23	-23.65	-12.63	-42.89	8.17
	-51.50	-4.67	-39.42	-21.52	-71.49	12.18
	-72.09	-7.11	-55.19	-30.42	-100.08	16.19
	-92.69	-9.55	-70.96	-39.31	-128.68	20.20
	-113.29	-11.99	-86.73	-48.21	-157.27	24.22
	1.22	10.30	4.45	7.88	-2.01	14.30
2.75	1.23	10.31	4.46	7.90	-1.99	14.31
	-113.42	-15.01	-86.85	-49.78	-157.45	19.76
	-92.80	-12.55	-71.06	-40.86	-128.82	15.77
	-72.18	-10.08	-55.27	-31.94	-100.19	11.78
	-51.55	-7.62	-39.48	-23.02	-71.57	7.79
	-30.93	-5.15	-23.69	-14.11	-42.94	3.80
	-10.31	-2.69	-7.90	-5.19	-14.31	-0.19
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.31	0.23	-7.90	-3.73	-14.31	4.18
	-30.93	-2.24	-23.69	-12.65	-42.94	8.17
	-51.55	-4.70	-39.48	-21.57	-71.57	12.16
	-72.18	-7.17	-55.27	-30.48	-100.19	16.15
	-92.80	-9.63	-71.06	-39.40	-128.82	20.14
	-113.42	-12.10	-86.85	-48.32	-157.45	24.13
	1.23	10.31	4.46	7.90	-1.99	14.31
2.80	1.24	10.32	4.47	7.91	-1.98	14.33
	-113.55	-15.17	-86.98	-49.92	-157.62	19.59
	-92.90	-12.68	-71.17	-40.98	-128.96	15.62
	-72.26	-10.19	-55.35	-32.04	-100.30	11.66
	-51.61	-7.70	-39.54	-23.10	-71.65	7.69

	-30.97	-5.22	-23.72	-14.15	-42.99	3.72
	-10.32	-2.73	-7.91	-5.21	-14.33	-0.24
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.32	0.24	-7.91	-3.73	-14.33	4.21
	-30.97	-2.25	-23.72	-12.67	-42.99	8.18
	-51.61	-4.74	-39.54	-21.61	-71.65	12.14
	-72.26	-7.22	-55.35	-30.55	-100.30	16.11
	-92.90	-9.71	-71.17	-39.49	-128.96	20.07
	-113.55	-12.20	-86.98	-48.44	-157.62	24.04
	1.24	10.32	4.47	7.91	-1.98	14.33
2.85	1.26	10.33	4.48	7.92	-1.97	14.34
	-113.68	-15.32	-87.11	-50.06	-157.79	19.42
	-93.01	-12.81	-71.27	-41.10	-129.10	15.48
	-72.34	-10.30	-55.43	-32.13	-100.41	11.53
	-51.67	-7.79	-39.60	-23.17	-71.72	7.59
	-31.00	-5.28	-23.76	-14.20	-43.03	3.65
	-10.33	-2.77	-7.92	-5.24	-14.34	-0.29
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.33	0.25	-7.92	-3.73	-14.34	4.24
	-31.00	-2.26	-23.76	-12.69	-43.03	8.18
	-51.67	-4.77	-39.60	-21.66	-71.72	12.12
	-72.34	-7.28	-55.43	-30.62	-100.41	16.06
	-93.01	-9.79	-71.27	-39.59	-129.10	20.01
	-113.68	-12.30	-87.11	-48.55	-157.79	23.95
	1.26	10.33	4.48	7.92	-1.97	14.34
2.90	1.27	10.35	4.49	7.93	-1.96	14.36
	-113.81	-15.48	-87.24	-50.20	-157.97	19.25
	-93.11	-12.94	-71.38	-41.22	-129.25	15.33
	-72.42	-10.41	-55.52	-32.23	-100.53	11.41
	-51.73	-7.87	-39.65	-23.24	-71.80	7.49
	-31.04	-5.34	-23.79	-14.25	-43.08	3.57
	-10.35	-2.80	-7.93	-5.26	-14.36	-0.35
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.35	0.27	-7.93	-3.73	-14.36	4.27
	-31.04	-2.26	-23.79	-12.71	-43.08	8.18
	-51.73	-4.80	-39.65	-21.70	-71.80	12.10
	-72.42	-7.33	-55.52	-30.69	-100.53	16.02
	-93.11	-9.87	-71.38	-39.68	-129.25	19.94
	-113.81	-12.40	-87.24	-48.67	-157.97	23.86
	1.27	10.35	4.49	7.93	-1.96	14.36
2.95	1.28	10.36	4.51	7.94	-1.95	14.38
	-113.94	-15.63	-87.37	-50.35	-158.14	19.08
	-93.22	-13.07	-71.48	-41.33	-129.39	15.18
	-72.50	-10.52	-55.60	-32.32	-100.64	11.29
	-51.79	-7.96	-39.71	-23.31	-71.88	7.39

	-31.07	-5.40	-23.83	-14.30	-43.13	3.50
	-10.36	-2.84	-7.94	-5.29	-14.38	-0.40
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.36	0.28	-7.94	-3.72	-14.38	4.29
	-31.07	-2.27	-23.83	-12.74	-43.13	8.19
	-51.79	-4.83	-39.71	-21.75	-71.88	12.08
	-72.50	-7.39	-55.60	-30.76	-100.64	15.98
	-93.22	-9.95	-71.48	-39.77	-129.39	19.88
	-113.94	-12.51	-87.37	-48.78	-158.14	23.77
	1.28	10.36	4.51	7.94	-1.95	14.38
3.00	1.29	10.37	4.52	7.95	-1.94	14.39
	-114.06	-15.79	-87.50	-50.49	-158.32	18.91
	-93.33	-13.21	-71.59	-41.45	-129.53	15.04
	-72.59	-10.63	-55.68	-32.42	-100.75	11.17
	-51.85	-8.04	-39.77	-23.38	-71.96	7.29
	-31.11	-5.46	-23.86	-14.35	-43.18	3.42
	-10.37	-2.88	-7.95	-5.31	-14.39	-0.45
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.37	0.30	-7.95	-3.72	-14.39	4.32
	-31.11	-2.28	-23.86	-12.76	-43.18	8.19
	-51.85	-4.86	-39.77	-21.79	-71.96	12.06
	-72.59	-7.45	-55.68	-30.83	-100.75	15.94
	-93.33	-10.03	-71.59	-39.86	-129.53	19.81
	-114.06	-12.61	-87.50	-48.90	-158.32	23.68
	1.29	10.37	4.52	7.95	-1.94	14.39
3.05	1.30	10.38	4.53	7.97	-1.92	14.41
	-114.19	-15.95	-87.63	-50.63	-158.49	18.74
	-93.43	-13.34	-71.70	-41.57	-129.68	14.89
	-72.67	-10.74	-55.76	-32.51	-100.86	11.04
	-51.91	-8.13	-39.83	-23.46	-72.04	7.20
	-31.14	-5.52	-23.90	-14.40	-43.23	3.35
	-10.38	-2.92	-7.97	-5.34	-14.41	-0.50
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.38	0.31	-7.97	-3.72	-14.41	4.35
	-31.14	-2.29	-23.90	-12.78	-43.23	8.20
	-51.91	-4.90	-39.83	-21.84	-72.04	12.05
	-72.67	-7.50	-55.76	-30.90	-100.86	15.89
	-93.43	-10.11	-71.70	-39.96	-129.68	19.74
	-114.19	-12.71	-87.63	-49.02	-158.49	23.59
	1.30	10.38	4.53	7.97	-1.92	14.41
3.10	1.31	10.39	4.54	7.98	-1.91	14.42
	-114.33	-16.10	-87.76	-50.78	-158.67	18.57
	-93.54	-13.47	-71.80	-41.69	-129.82	14.75
	-72.75	-10.84	-55.85	-32.61	-100.97	10.92
	-51.97	-8.22	-39.89	-23.53	-72.12	7.10

	-31.18	-5.59	-23.93	-14.45	-43.27	3.27
	-10.39	-2.96	-7.98	-5.36	-14.42	-0.55
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.39	0.33	-7.98	-3.72	-14.42	4.38
	-31.18	-2.30	-23.93	-12.80	-43.27	8.20
	-51.97	-4.93	-39.89	-21.89	-72.12	12.03
	-72.75	-7.56	-55.85	-30.97	-100.97	15.85
	-93.54	-10.19	-71.80	-40.05	-129.82	19.68
	-114.33	-12.82	-87.76	-49.13	-158.67	23.50
	1.31	10.39	4.54	7.98	-1.91	14.42
3.15	1.33	10.41	4.55	7.99	-1.90	14.44
	-114.46	-16.26	-87.89	-50.92	-158.85	18.40
	-93.65	-13.61	-71.91	-41.81	-129.97	14.60
	-72.84	-10.95	-55.93	-32.71	-101.08	10.80
	-52.03	-8.30	-39.95	-23.60	-72.20	7.00
	-31.22	-5.65	-23.97	-14.49	-43.32	3.20
	-10.41	-3.00	-7.99	-5.39	-14.44	-0.60
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.41	0.34	-7.99	-3.72	-14.44	4.40
	-31.22	-2.31	-23.97	-12.83	-43.32	8.21
	-52.03	-4.96	-39.95	-21.93	-72.20	12.01
	-72.84	-7.62	-55.93	-31.04	-101.08	15.81
	-93.65	-10.27	-71.91	-40.14	-129.97	19.61
	-114.46	-12.92	-87.89	-49.25	-158.85	23.41
	1.33	10.41	4.55	7.99	-1.90	14.44
3.20	1.34	10.42	4.57	8.00	-1.89	14.46
	-114.59	-16.42	-88.02	-51.06	-159.02	18.23
	-93.75	-13.74	-72.02	-41.93	-130.11	14.45
	-72.92	-11.06	-56.01	-32.80	-101.20	10.68
	-52.09	-8.39	-40.01	-23.67	-72.28	6.90
	-31.25	-5.71	-24.01	-14.54	-43.37	3.12
	-10.42	-3.03	-8.00	-5.41	-14.46	-0.66
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.42	0.36	-8.00	-3.72	-14.46	4.43
	-31.25	-2.32	-24.01	-12.85	-43.37	8.21
	-52.09	-5.00	-40.01	-21.98	-72.28	11.99
	-72.92	-7.67	-56.01	-31.11	-101.20	15.76
	-93.75	-10.35	-72.02	-40.24	-130.11	19.54
	-114.59	-13.03	-88.02	-49.37	-159.02	23.32
	1.34	10.42	4.57	8.00	-1.89	14.46
3.25	1.35	10.43	4.58	8.01	-1.88	14.47
	-114.72	-16.58	-88.15	-51.21	-159.20	18.06
	-93.86	-13.87	-72.13	-42.06	-130.26	14.31
	-73.00	-11.17	-56.10	-32.90	-101.31	10.55
	-52.14	-8.47	-40.07	-23.75	-72.36	6.80

	-31.29	-5.77	-24.04	-14.59	-43.42	3.05
	-10.43	-3.07	-8.01	-5.44	-14.47	-0.71
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.43	0.37	-8.01	-3.72	-14.47	4.46
	-31.29	-2.33	-24.04	-12.87	-43.42	8.21
	-52.14	-5.03	-40.07	-22.02	-72.36	11.97
	-73.00	-7.73	-56.10	-31.18	-101.31	15.72
	-93.86	-10.43	-72.13	-40.33	-130.26	19.47
	-114.72	-13.13	-88.15	-49.49	-159.20	23.23
	1.35	10.43	4.58	8.01	-1.88	14.47
3.30	1.36	10.44	4.59	8.03	-1.86	14.49
	-114.85	-16.73	-88.28	-51.35	-159.38	17.89
	-93.97	-14.01	-72.23	-42.18	-130.40	14.16
	-73.09	-11.28	-56.18	-33.00	-101.42	10.43
	-52.20	-8.56	-40.13	-23.82	-72.44	6.70
	-31.32	-5.84	-24.08	-14.64	-43.47	2.97
	-10.44	-3.11	-8.03	-5.46	-14.49	-0.76
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.44	0.39	-8.03	-3.71	-14.49	4.49
	-31.32	-2.34	-24.08	-12.89	-43.47	8.22
	-52.20	-5.06	-40.13	-22.07	-72.44	11.95
	-73.09	-7.79	-56.18	-31.25	-101.42	15.68
	-93.97	-10.51	-72.23	-40.43	-130.40	19.41
	-114.85	-13.24	-88.28	-49.61	-159.38	23.13
	1.36	10.44	4.59	8.03	-1.86	14.49
3.35	1.37	10.45	4.60	8.04	-1.85	14.51
	-114.98	-16.89	-88.42	-51.50	-159.56	17.72
	-94.08	-14.14	-72.34	-42.30	-130.55	14.01
	-73.17	-11.39	-56.27	-33.10	-101.54	10.31
	-52.26	-8.65	-40.19	-23.89	-72.53	6.60
	-31.36	-5.90	-24.11	-14.69	-43.52	2.89
	-10.45	-3.15	-8.04	-5.49	-14.51	-0.81
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.45	0.40	-8.04	-3.71	-14.51	4.52
	-31.36	-2.35	-24.11	-12.92	-43.52	8.22
	-52.26	-5.10	-40.19	-22.12	-72.53	11.93
	-73.17	-7.84	-56.27	-31.32	-101.54	15.63
	-94.08	-10.59	-72.34	-40.52	-130.55	19.34
	-114.98	-13.34	-88.42	-49.72	-159.56	23.04
	1.37	10.45	4.60	8.04	-1.85	14.51
3.40	1.39	10.46	4.61	8.05	-1.84	14.52
	-115.11	-17.05	-88.55	-51.64	-159.73	17.54
	-94.18	-14.28	-72.45	-42.42	-130.69	13.86
	-73.25	-11.51	-56.35	-33.19	-101.65	10.18
	-52.32	-8.73	-40.25	-23.97	-72.61	6.50

	-31.39	-5.96	-24.15	-14.74	-43.56	2.82
	-10.46	-3.19	-8.05	-5.51	-14.52	-0.86
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.46	0.42	-8.05	-3.71	-14.52	4.54
	-31.39	-2.36	-24.15	-12.94	-43.56	8.22
	-52.32	-5.13	-40.25	-22.16	-72.61	11.91
	-73.25	-7.90	-56.35	-31.39	-101.65	15.59
	-94.18	-10.67	-72.45	-40.62	-130.69	19.27
	-115.11	-13.45	-88.55	-49.84	-159.73	22.95
	1.39	10.46	4.61	8.05	-1.84	14.52
3.45	1.40	10.48	4.63	8.06	-1.83	14.54
	-115.25	-17.21	-88.68	-51.79	-159.91	17.37
	-94.29	-14.41	-72.56	-42.54	-130.84	13.71
	-73.34	-11.62	-56.43	-33.29	-101.76	10.06
	-52.38	-8.82	-40.31	-24.04	-72.69	6.40
	-31.43	-6.02	-24.19	-14.79	-43.61	2.74
	-10.48	-3.23	-8.06	-5.54	-14.54	-0.91
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.48	0.43	-8.06	-3.71	-14.54	4.57
	-31.43	-2.37	-24.19	-12.96	-43.61	8.23
	-52.38	-5.16	-40.31	-22.21	-72.69	11.89
	-73.34	-7.96	-56.43	-31.46	-101.76	15.54
	-94.29	-10.76	-72.56	-40.71	-130.84	19.20
	-115.25	-13.55	-88.68	-49.96	-159.91	22.86
	1.40	10.48	4.63	8.06	-1.83	14.54
3.50	1.41	10.49	4.64	8.07	-1.82	14.55
	-115.38	-17.37	-88.81	-51.94	-160.09	17.20
	-94.40	-14.55	-72.67	-42.66	-130.98	13.57
	-73.42	-11.73	-56.52	-33.39	-101.88	9.93
	-52.44	-8.91	-40.37	-24.11	-72.77	6.30
	-31.47	-6.09	-24.22	-14.84	-43.66	2.67
	-10.49	-3.27	-8.07	-5.56	-14.55	-0.97
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.49	0.44	-8.07	-3.71	-14.55	4.60
	-31.47	-2.38	-24.22	-12.98	-43.66	8.23
	-52.44	-5.20	-40.37	-22.26	-72.77	11.87
	-73.42	-8.02	-56.52	-31.53	-101.88	15.50
	-94.40	-10.84	-72.67	-40.81	-130.98	19.13
	-115.38	-13.66	-88.81	-50.08	-160.09	22.76
	1.41	10.49	4.64	8.07	-1.82	14.55
3.55	1.42	10.50	4.65	8.09	-1.80	14.57
	-115.51	-17.53	-88.95	-52.08	-160.27	17.03
	-94.51	-14.68	-72.77	-42.78	-131.13	13.42
	-73.51	-11.84	-56.60	-33.49	-101.99	9.81
	-52.51	-8.99	-40.43	-24.19	-72.85	6.20

	-31.50	-6.15	-24.26	-14.89	-43.71	2.59
	-10.50	-3.30	-8.09	-5.59	-14.57	-1.02
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.50	0.46	-8.09	-3.71	-14.57	4.63
	-31.50	-2.39	-24.26	-13.01	-43.71	8.24
	-52.51	-5.23	-40.43	-22.31	-72.85	11.84
	-73.51	-8.07	-56.60	-31.60	-101.99	15.45
	-94.51	-10.92	-72.77	-40.90	-131.13	19.06
	-115.51	-13.76	-88.95	-50.20	-160.27	22.67
	1.42	10.50	4.65	8.09	-1.80	14.57
3.60	1.43	10.51	4.66	8.10	-1.79	14.59
	-115.64	-17.69	-89.08	-52.23	-160.45	16.85
	-94.62	-14.82	-72.88	-42.91	-131.28	13.27
	-73.59	-11.95	-56.69	-33.58	-102.11	9.68
	-52.57	-9.08	-40.49	-24.26	-72.93	6.10
	-31.54	-6.21	-24.29	-14.94	-43.76	2.52
	-10.51	-3.34	-8.10	-5.62	-14.59	-1.07
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.51	0.47	-8.10	-3.71	-14.59	4.65
	-31.54	-2.40	-24.29	-13.03	-43.76	8.24
	-52.57	-5.26	-40.49	-22.35	-72.93	11.82
	-73.59	-8.13	-56.69	-31.67	-102.11	15.41
	-94.62	-11.00	-72.88	-41.00	-131.28	18.99
	-115.64	-13.87	-89.08	-50.32	-160.45	22.58
	1.43	10.51	4.66	8.10	-1.79	14.59
3.65	1.45	10.53	4.67	8.11	-1.78	14.60
	-115.78	-17.85	-89.21	-52.37	-160.63	16.68
	-94.73	-14.95	-72.99	-43.03	-131.43	13.12
	-73.68	-12.06	-56.77	-33.68	-102.22	9.56
	-52.63	-9.17	-40.55	-24.33	-73.01	6.00
	-31.58	-6.27	-24.33	-14.99	-43.81	2.44
	-10.53	-3.38	-8.11	-5.64	-14.60	-1.12
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.53	0.49	-8.11	-3.71	-14.60	4.68
	-31.58	-2.41	-24.33	-13.05	-43.81	8.24
	-52.63	-5.30	-40.55	-22.40	-73.01	11.80
	-73.68	-8.19	-56.77	-31.75	-102.22	15.36
	-94.73	-11.08	-72.99	-41.09	-131.43	18.92
	-115.78	-13.98	-89.21	-50.44	-160.63	22.49
	1.45	10.53	4.67	8.11	-1.78	14.60
3.70	1.46	10.54	4.69	8.12	-1.77	14.62
	-115.91	-18.01	-89.35	-52.52	-160.81	16.51
	-94.84	-15.09	-73.10	-43.15	-131.57	12.97
	-73.76	-12.17	-56.86	-33.78	-102.33	9.44
	-52.69	-9.25	-40.61	-24.41	-73.10	5.90

	-31.61	-6.34	-24.37	-15.04	-43.86	2.36
	-10.54	-3.42	-8.12	-5.67	-14.62	-1.17
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.54	0.50	-8.12	-3.70	-14.62	4.71
	-31.61	-2.41	-24.37	-13.08	-43.86	8.25
	-52.69	-5.33	-40.61	-22.45	-73.10	11.78
	-73.76	-8.25	-56.86	-31.82	-102.33	15.32
	-94.84	-11.17	-73.10	-41.19	-131.57	18.86
	-115.91	-14.08	-89.35	-50.56	-160.81	22.39
	1.46	10.54	4.69	8.12	-1.77	14.62
3.75	1.47	10.55	4.70	8.13	-1.76	14.64
	-116.04	-18.17	-89.48	-52.67	-160.99	16.34
	-94.95	-15.22	-73.21	-43.27	-131.72	12.82
	-73.85	-12.28	-56.94	-33.88	-102.45	9.31
	-52.75	-9.34	-40.67	-24.48	-73.18	5.80
	-31.65	-6.40	-24.40	-15.09	-43.91	2.29
	-10.55	-3.46	-8.13	-5.69	-14.64	-1.23
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.55	0.52	-8.13	-3.70	-14.64	4.74
	-31.65	-2.42	-24.40	-13.10	-43.91	8.25
	-52.75	-5.37	-40.67	-22.49	-73.18	11.76
	-73.85	-8.31	-56.94	-31.89	-102.45	15.27
	-94.95	-11.25	-73.21	-41.28	-131.72	18.79
	-116.04	-14.19	-89.48	-50.68	-160.99	22.30
	1.47	10.55	4.70	8.13	-1.76	14.64
3.80	1.48	10.56	4.71	8.15	-1.74	14.65
	-116.18	-18.33	-89.61	-52.81	-161.17	16.16
	-95.05	-15.36	-73.32	-43.40	-131.87	12.67
	-73.93	-12.39	-57.03	-33.98	-102.56	9.19
	-52.81	-9.43	-40.73	-24.56	-73.26	5.70
	-31.68	-6.46	-24.44	-15.14	-43.96	2.21
	-10.56	-3.50	-8.15	-5.72	-14.65	-1.28
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.56	0.53	-8.15	-3.70	-14.65	4.76
	-31.68	-2.43	-24.44	-13.12	-43.96	8.25
	-52.81	-5.40	-40.73	-22.54	-73.26	11.74
	-73.93	-8.37	-57.03	-31.96	-102.56	15.23
	-95.05	-11.33	-73.32	-41.38	-131.87	18.72
	-116.18	-14.30	-89.61	-50.80	-161.17	22.20
	1.48	10.56	4.71	8.15	-1.74	14.65
3.85	1.50	10.57	4.72	8.16	-1.73	14.67
	-116.31	-18.49	-89.75	-52.96	-161.35	15.99
	-95.16	-15.50	-73.43	-43.52	-132.02	12.52
	-74.02	-12.51	-57.11	-34.07	-102.68	9.06
	-52.87	-9.52	-40.79	-24.63	-73.34	5.60

	-31.72	-6.53	-24.48	-15.19	-44.01	2.13
	-10.57	-3.54	-8.16	-5.74	-14.67	-1.33
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.57	0.55	-8.16	-3.70	-14.67	4.79
	-31.72	-2.44	-24.48	-13.15	-44.01	8.26
	-52.87	-5.44	-40.79	-22.59	-73.34	11.72
	-74.02	-8.43	-57.11	-32.03	-102.68	15.18
	-95.16	-11.42	-73.43	-41.48	-132.02	18.65
	-116.31	-14.41	-89.75	-50.92	-161.35	22.11
	1.50	10.57	4.72	8.16	-1.73	14.67
3.90	1.51	10.59	4.73	8.17	-1.72	14.68
	-116.45	-18.65	-89.88	-53.11	-161.53	15.81
	-95.27	-15.63	-73.54	-43.64	-132.16	12.38
	-74.10	-12.62	-57.20	-34.17	-102.79	8.94
	-52.93	-9.60	-40.86	-24.70	-73.42	5.50
	-31.76	-6.59	-24.51	-15.24	-44.05	2.06
	-10.59	-3.57	-8.17	-5.77	-14.68	-1.38
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.59	0.56	-8.17	-3.70	-14.68	4.82
	-31.76	-2.45	-24.51	-13.17	-44.05	8.26
	-52.93	-5.47	-40.86	-22.64	-73.42	11.70
	-74.10	-8.48	-57.20	-32.11	-102.79	15.14
	-95.27	-11.50	-73.54	-41.57	-132.16	18.58
	-116.45	-14.51	-89.88	-51.04	-161.53	22.02
1.51	10.59	4.73	8.17	-1.72	14.68	
3.95	1.52	10.60	4.75	8.18	-1.71	14.70
	-116.58	-18.81	-90.02	-53.26	-161.71	15.64
	-95.38	-15.77	-73.65	-43.76	-132.31	12.23
	-74.19	-12.73	-57.28	-34.27	-102.91	8.81
	-52.99	-9.69	-40.92	-24.78	-73.51	5.40
	-31.79	-6.65	-24.55	-15.29	-44.10	1.98
	-10.60	-3.61	-8.18	-5.79	-14.70	-1.43
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.60	0.57	-8.18	-3.70	-14.70	4.85
	-31.79	-2.47	-24.55	-13.19	-44.10	8.26
	-52.99	-5.50	-40.92	-22.69	-73.51	11.68
	-74.19	-8.54	-57.28	-32.18	-102.91	15.09
	-95.38	-11.58	-73.65	-41.67	-132.31	18.51
	-116.58	-14.62	-90.02	-51.16	-161.71	21.92
1.52	10.60	4.75	8.18	-1.71	14.70	
4.00	1.53	10.61	4.76	8.20	-1.70	14.72
	-116.71	-18.97	-90.15	-53.40	-161.90	15.47
	-95.49	-15.91	-73.76	-43.89	-132.46	12.08
	-74.27	-12.84	-57.37	-34.37	-103.02	8.69
	-53.05	-9.78	-40.98	-24.85	-73.59	5.30

	-31.83	-6.72	-24.59	-15.34	-44.15	1.91
	-10.61	-3.65	-8.20	-5.82	-14.72	-1.48
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.61	0.59	-8.20	-3.70	-14.72	4.88
	-31.83	-2.48	-24.59	-13.22	-44.15	8.27
	-53.05	-5.54	-40.98	-22.73	-73.59	11.66
	-74.27	-8.60	-57.37	-32.25	-103.02	15.05
	-95.49	-11.67	-73.76	-41.77	-132.46	18.44
	-116.71	-14.73	-90.15	-51.28	-161.90	21.83
	1.53	10.61	4.76	8.20	-1.70	14.72
4.05	1.54	10.62	4.77	8.21	-1.68	14.73
	-116.85	-19.13	-90.28	-53.55	-162.08	15.29
	-95.60	-16.04	-73.87	-44.01	-132.61	11.93
	-74.36	-12.95	-57.45	-34.47	-103.14	8.56
	-53.11	-9.87	-41.04	-24.93	-73.67	5.19
	-31.87	-6.78	-24.62	-15.39	-44.20	1.83
	-10.62	-3.69	-8.21	-5.84	-14.73	-1.54
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.62	0.60	-8.21	-3.70	-14.73	4.90
	-31.87	-2.49	-24.62	-13.24	-44.20	8.27
	-53.11	-5.57	-41.04	-22.78	-73.67	11.63
	-74.36	-8.66	-57.45	-32.32	-103.14	15.00
	-95.60	-11.75	-73.87	-41.86	-132.61	18.37
	-116.85	-14.84	-90.28	-51.41	-162.08	21.73
	1.54	10.62	4.77	8.21	-1.68	14.73
4.10	1.56	10.63	4.78	8.22	-1.67	14.75
	-116.98	-19.29	-90.42	-53.70	-162.26	15.12
	-95.71	-16.18	-73.98	-44.13	-132.76	11.78
	-74.44	-13.07	-57.54	-34.57	-103.26	8.43
	-53.17	-9.95	-41.10	-25.00	-73.75	5.09
	-31.90	-6.84	-24.66	-15.44	-44.25	1.75
	-10.63	-3.73	-8.22	-5.87	-14.75	-1.59
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.63	0.62	-8.22	-3.70	-14.75	4.93
	-31.90	-2.50	-24.66	-13.26	-44.25	8.27
	-53.17	-5.61	-41.10	-22.83	-73.75	11.61
	-74.44	-8.72	-57.54	-32.40	-103.26	14.95
	-95.71	-11.83	-73.98	-41.96	-132.76	18.29
	-116.98	-14.95	-90.42	-51.53	-162.26	21.64
	1.56	10.63	4.78	8.22	-1.67	14.75
4.15	1.57	10.65	4.80	8.23	-1.66	14.77
	-117.12	-19.45	-90.55	-53.85	-162.44	14.94
	-95.82	-16.32	-74.09	-44.26	-132.91	11.63
	-74.53	-13.18	-57.63	-34.67	-103.37	8.31
	-53.24	-10.04	-41.16	-25.08	-73.84	4.99

	-31.94	-6.91	-24.70	-15.49	-44.30	1.68
	-10.65	-3.77	-8.23	-5.90	-14.77	-1.64
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.65	0.63	-8.23	-3.70	-14.77	4.96
	-31.94	-2.51	-24.70	-13.29	-44.30	8.27
	-53.24	-5.64	-41.16	-22.88	-73.84	11.59
	-74.53	-8.78	-57.63	-32.47	-103.37	14.91
	-95.82	-11.92	-74.09	-42.06	-132.91	18.22
	-117.12	-15.05	-90.55	-51.65	-162.44	21.54
	1.57	10.65	4.80	8.23	-1.66	14.77
4.20	1.58	10.66	4.81	8.24	-1.65	14.78
	-117.25	-19.61	-90.69	-54.00	-162.62	14.77
	-95.94	-16.45	-74.20	-44.38	-133.06	11.48
	-74.62	-13.29	-57.71	-34.77	-103.49	8.18
	-53.30	-10.13	-41.22	-25.15	-73.92	4.89
	-31.98	-6.97	-24.73	-15.54	-44.35	1.60
	-10.66	-3.81	-8.24	-5.92	-14.78	-1.69
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.66	0.65	-8.24	-3.69	-14.78	4.99
	-31.98	-2.52	-24.73	-13.31	-44.35	8.28
	-53.30	-5.68	-41.22	-22.93	-73.92	11.57
	-74.62	-8.84	-57.71	-32.54	-103.49	14.86
	-95.94	-12.00	-74.20	-42.16	-133.06	18.15
	-117.25	-15.16	-90.69	-51.77	-162.62	21.45
	1.58	10.66	4.81	8.24	-1.65	14.78
4.25	1.59	10.67	4.82	8.26	-1.63	14.80
	-117.39	-19.78	-90.82	-54.15	-162.81	14.59
	-96.05	-16.59	-74.31	-44.51	-133.21	11.33
	-74.70	-13.40	-57.80	-34.87	-103.60	8.06
	-53.36	-10.22	-41.28	-25.23	-74.00	4.79
	-32.02	-7.03	-24.77	-15.59	-44.40	1.52
	-10.67	-3.85	-8.26	-5.95	-14.80	-1.74
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.67	0.66	-8.26	-3.69	-14.80	5.01
	-32.02	-2.53	-24.77	-13.33	-44.40	8.28
	-53.36	-5.71	-41.28	-22.97	-74.00	11.55
	-74.70	-8.90	-57.80	-32.61	-103.60	14.82
	-96.05	-12.09	-74.31	-42.25	-133.21	18.08
	-117.39	-15.27	-90.82	-51.89	-162.81	21.35
	1.59	10.67	4.82	8.26	-1.63	14.80
4.30	1.61	10.68	4.83	8.27	-1.62	14.82
	-117.52	-19.94	-90.96	-54.29	-162.99	14.42
	-96.16	-16.73	-74.42	-44.63	-133.36	11.17
	-74.79	-13.52	-57.88	-34.97	-103.72	7.93
	-53.42	-10.31	-41.35	-25.30	-74.09	4.69

	-32.05	-7.10	-24.81	-15.64	-44.45	1.45
	-10.68	-3.88	-8.27	-5.97	-14.82	-1.80
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.68	0.67	-8.27	-3.69	-14.82	5.04
	-32.05	-2.54	-24.81	-13.36	-44.45	8.28
	-53.42	-5.75	-41.35	-23.02	-74.09	11.53
	-74.79	-8.96	-57.88	-32.69	-103.72	14.77
	-96.16	-12.17	-74.42	-42.35	-133.36	18.01
	-117.52	-15.38	-90.96	-52.01	-162.99	21.25
	1.61	10.68	4.83	8.27	-1.62	14.82
4.35	1.62	10.70	4.84	8.28	-1.61	14.83
	-117.66	-20.10	-91.10	-54.44	-163.17	14.24
	-96.27	-16.86	-74.53	-44.75	-133.50	11.02
	-74.87	-13.63	-57.97	-35.06	-103.84	7.81
	-53.48	-10.39	-41.41	-25.38	-74.17	4.59
	-32.09	-7.16	-24.84	-15.69	-44.50	1.37
	-10.70	-3.92	-8.28	-6.00	-14.83	-1.85
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.70	0.69	-8.28	-3.69	-14.83	5.07
	-32.09	-2.55	-24.84	-13.38	-44.50	8.29
	-53.48	-5.78	-41.41	-23.07	-74.17	11.50
	-74.87	-9.02	-57.97	-32.76	-103.84	14.72
	-96.27	-12.25	-74.53	-42.45	-133.50	17.94
	-117.66	-15.49	-91.10	-52.14	-163.17	21.16
	1.62	10.70	4.84	8.28	-1.61	14.83
4.40	1.63	10.71	4.86	8.29	-1.60	14.85
	-117.80	-20.26	-91.23	-54.59	-163.36	14.07
	-96.38	-17.00	-74.64	-44.88	-133.65	10.87
	-74.96	-13.74	-58.06	-35.16	-103.95	7.68
	-53.54	-10.48	-41.47	-25.45	-74.25	4.49
	-32.13	-7.22	-24.88	-15.74	-44.55	1.29
	-10.71	-3.96	-8.29	-6.02	-14.85	-1.90
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.71	0.70	-8.29	-3.69	-14.85	5.09
	-32.13	-2.56	-24.88	-13.40	-44.55	8.29
	-53.54	-5.82	-41.47	-23.12	-74.25	11.48
	-74.96	-9.08	-58.06	-32.83	-103.95	14.68
	-96.38	-12.34	-74.64	-42.55	-133.65	17.87
	-117.80	-15.60	-91.23	-52.26	-163.36	21.06
	1.63	10.71	4.86	8.29	-1.60	14.85
4.45	1.64	10.72	4.87	8.31	-1.58	14.87
	-117.93	-20.42	-91.37	-54.74	-163.54	13.89
	-96.49	-17.14	-74.75	-45.00	-133.80	10.72
	-75.05	-13.86	-58.14	-35.26	-104.07	7.55
	-53.61	-10.57	-41.53	-25.53	-74.34	4.38

	-32.16	-7.29	-24.92	-15.79	-44.60	1.22
	-10.72	-4.00	-8.31	-6.05	-14.87	-1.95
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.72	0.72	-8.31	-3.69	-14.87	5.12
	-32.16	-2.57	-24.92	-13.43	-44.60	8.29
	-53.61	-5.85	-41.53	-23.17	-74.34	11.46
	-75.05	-9.14	-58.14	-32.91	-104.07	14.63
	-96.49	-12.42	-74.75	-42.64	-133.80	17.80
	-117.93	-15.71	-91.37	-52.38	-163.54	20.97
	1.64	10.72	4.87	8.31	-1.58	14.87
	1.65	10.73	4.88	8.32	-1.57	14.88
4.50	-118.07	-20.59	-91.50	-54.89	-163.72	13.72
	-96.60	-17.28	-74.87	-45.13	-133.95	10.57
	-75.13	-13.97	-58.23	-35.36	-104.19	7.43
	-53.67	-10.66	-41.59	-25.60	-74.42	4.28
	-32.20	-7.35	-24.96	-15.84	-44.65	1.14
	-10.73	-4.04	-8.32	-6.07	-14.88	-2.01
	0.00	0.00	0.00	0.00	0.00	0.00
	-10.73	0.73	-8.32	-3.69	-14.88	5.15
	-32.20	-2.58	-24.96	-13.45	-44.65	8.29
	-53.67	-5.89	-41.59	-23.22	-74.42	11.44
	-75.13	-9.20	-58.23	-32.98	-104.19	14.58
	-96.60	-12.51	-74.87	-42.74	-133.95	17.73
	-118.07	-15.82	-91.50	-52.50	-163.72	20.87
	1.65	10.73	4.88	8.32	-1.57	14.88

En la Tabla 16 se muestran las combinaciones de esfuerzos para las diagonales en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 16. Combinación de esfuerzos de las diagonales - 14 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)
0.50	119.69	639.82	304.39	501.15	-65.02	886.37
	101.45	541.39	257.65	424.05	-54.75	750.01
	83.22	442.95	210.91	346.95	-44.47	613.64
	64.99	344.52	164.17	269.85	-34.20	477.28
	46.75	246.09	117.43	192.75	-23.93	340.91
	28.52	147.65	70.69	115.65	-13.65	204.55
	10.29	49.22	23.95	38.55	-3.38	68.18
	7.64	47.33	21.91	37.07	-6.63	65.56
	25.17	141.98	66.85	111.21	-16.51	196.69
	42.71	236.63	111.80	185.35	-26.38	327.82
	60.24	331.29	156.74	259.49	-36.26	458.95

	77.77	425.94	201.69	333.63	-46.14	590.07	
	95.30	520.60	246.63	407.76	-56.02	721.20	
	112.84	615.25	291.57	481.90	-65.90	852.33	
0.55	94.35	570.52	263.43	443.54	-74.72	790.90	
	80.02	482.75	222.99	375.30	-62.95	669.23	
	65.68	394.98	182.55	307.07	-51.19	547.55	
	51.35	307.20	142.12	238.83	-39.42	425.87	
	37.01	219.43	101.68	170.59	-27.65	304.19	
	22.68	131.66	61.24	102.36	-15.88	182.52	
	8.35	43.89	20.81	34.12	-4.12	60.84	
	5.74	42.06	18.81	32.70	-7.33	58.30	
	19.47	126.17	57.56	98.09	-18.61	174.90	
	33.21	210.28	96.31	163.48	-29.89	291.51	
	46.95	294.39	135.06	228.87	-41.16	408.11	
	60.68	378.50	173.81	294.26	-52.44	524.71	
	74.42	462.61	212.56	359.65	-63.72	641.31	
	88.16	546.72	251.31	425.04	-74.99	757.91	
	0.60	80.18	519.90	236.30	402.62	-75.94	720.99
		68.03	439.92	200.04	340.68	-63.98	610.07
55.88		359.93	163.78	278.74	-52.02	499.15	
43.72		279.95	127.51	216.79	-40.07	388.23	
31.57		199.96	91.25	154.85	-28.11	277.31	
19.42		119.98	54.99	92.91	-16.15	166.38	
7.26		39.99	18.73	30.97	-4.20	55.46	
4.67		38.20	16.75	29.58	-7.41	52.97	
16.28		114.59	51.39	88.74	-18.83	158.91	
27.88		190.99	86.02	147.90	-30.25	264.86	
39.49		267.38	120.65	207.06	-41.67	370.80	
51.10		343.78	155.29	266.22	-53.09	476.74	
62.71		420.17	189.92	325.39	-64.51	582.69	
74.31		496.57	224.56	384.55	-75.93	688.63	
0.65	70.33	479.39	215.55	370.25	-74.89	664.96	
	59.69	405.63	182.48	313.29	-63.09	562.66	
	49.06	331.88	149.41	256.33	-51.30	460.36	
	38.42	258.13	116.34	199.37	-39.50	358.06	
	27.79	184.38	83.27	142.41	-27.70	255.76	
	17.15	110.63	50.20	85.44	-15.90	153.45	
	6.52	36.88	17.13	28.48	-4.10	51.15	
	3.92	35.11	15.17	27.12	-7.33	48.70	
	14.05	105.32	46.66	81.35	-18.56	146.10	
	24.17	175.54	78.14	135.58	-29.79	243.50	
	34.30	245.76	109.62	189.81	-41.02	340.89	
	44.42	315.97	141.11	244.04	-52.26	438.29	
	54.55	386.19	172.59	298.27	-63.49	535.69	
	64.68	456.41	204.07	352.51	-74.72	633.09	

0.70	58.94	441.88	194.88	339.69	-76.99	613.20
	50.06	373.90	164.99	287.43	-64.87	518.86
	41.18	305.92	135.10	235.17	-52.74	424.52
	32.30	237.93	105.21	182.91	-40.62	330.18
	23.41	169.95	75.32	130.65	-28.50	235.84
	14.53	101.97	45.44	78.39	-16.37	141.51
	5.65	33.99	15.55	26.13	-4.25	47.17
	3.07	32.26	13.61	24.80	-7.47	44.77
	11.50	96.79	41.98	74.41	-18.98	134.31
	19.93	161.31	70.35	124.01	-30.49	223.85
	28.36	225.84	98.72	173.61	-41.99	313.40
	36.79	290.36	127.08	223.22	-53.50	402.94
	45.22	354.89	155.45	272.82	-65.01	492.48
	53.65	419.41	183.82	322.42	-76.51	582.02
	0.75	55.96	416.40	183.89	320.19	-71.98
47.54		352.34	155.70	270.93	-60.62	488.93
39.12		288.28	127.50	221.67	-49.27	400.03
30.69		224.21	99.30	172.41	-37.91	311.14
22.27		160.15	71.10	123.15	-26.56	222.24
13.85		96.09	42.91	73.89	-15.20	133.34
5.43		32.03	14.71	24.63	-3.85	44.45
2.83		30.31	12.77	23.31	-7.10	42.06
10.80		90.94	39.45	69.93	-17.85	126.19
18.77		151.57	66.14	116.55	-28.59	210.32
26.74		212.19	92.82	163.17	-39.34	294.45
34.71		272.82	119.51	209.79	-50.08	378.58
42.68		333.45	146.20	256.41	-60.83	462.71
50.65		394.07	172.88	303.03	-71.58	546.84
0.80		50.51	391.39	171.49	300.39	-70.48
	42.92	331.18	145.20	254.17	-59.35	459.65
	35.34	270.97	118.91	207.96	-48.23	376.08
	27.76	210.75	92.62	161.75	-37.10	292.50
	20.18	150.54	66.34	115.53	-25.97	208.93
	12.60	90.32	40.05	69.32	-14.85	125.36
	5.02	30.11	13.76	23.11	-3.72	41.79
	2.42	28.41	11.83	21.81	-6.99	39.44
	9.57	85.24	36.64	65.42	-17.49	118.31
	16.73	142.07	61.45	109.04	-27.99	197.18
	23.88	198.90	86.26	152.65	-38.49	276.05
	31.04	255.72	111.07	196.26	-48.99	354.92
	38.19	312.55	135.88	239.88	-59.49	433.80
	45.35	369.38	160.69	283.49	-69.99	512.67
	0.85	43.16	366.92	158.05	280.46	-71.74
36.71		310.47	133.83	237.32	-60.41	431.06
30.26		254.02	109.61	194.17	-49.09	352.68

	23.81	197.57	85.39	151.02	-37.77	274.31
	17.36	141.12	61.17	107.87	-26.45	195.94
	10.91	84.67	36.95	64.72	-15.12	117.56
	4.47	28.22	12.73	21.57	-3.80	39.19
	1.87	26.57	10.82	20.31	-7.08	36.89
	7.94	79.70	33.61	60.92	-17.74	110.66
	14.01	132.83	56.41	101.54	-28.40	184.43
	20.08	185.97	79.21	142.15	-39.05	258.20
	26.15	239.10	102.01	182.76	-49.71	331.97
	32.22	292.23	124.80	223.38	-60.37	405.74
	38.29	345.37	147.60	263.99	-71.03	479.51
0.90	41.56	350.20	151.08	267.77	-67.96	486.21
	35.36	296.32	127.93	226.57	-57.22	411.41
	29.16	242.45	104.79	185.38	-46.47	336.61
	22.96	188.57	81.64	144.18	-35.73	261.81
	16.76	134.69	58.49	102.99	-24.98	187.00
	10.55	80.82	35.35	61.79	-14.24	112.20
	4.35	26.94	12.20	20.60	-3.49	37.40
	1.74	25.29	10.28	19.34	-6.81	35.12
	7.56	75.88	32.01	58.02	-16.90	105.35
	13.38	126.47	53.74	96.70	-26.98	175.58
	19.20	177.05	75.48	135.38	-37.07	245.81
	25.02	227.64	97.21	174.05	-47.16	316.05
	30.85	278.22	118.94	212.73	-57.25	386.28
	36.67	328.81	140.67	251.41	-67.34	456.51
0.95	39.12	334.34	143.87	255.47	-65.63	464.22
	33.30	282.90	121.83	216.17	-55.24	392.80
	27.47	231.47	99.79	176.87	-44.85	321.38
	21.65	180.03	77.76	137.56	-34.46	249.96
	15.82	128.59	55.72	98.26	-24.07	178.55
	10.00	77.16	33.69	58.96	-13.69	107.13
	4.18	25.72	11.65	19.65	-3.30	35.71
	1.54	24.09	9.73	18.41	-6.64	33.45
	7.00	72.27	30.37	55.22	-16.37	100.35
	12.45	120.45	51.01	92.04	-26.10	167.24
	17.91	168.63	71.65	128.86	-35.84	234.14
	23.36	216.82	92.29	165.67	-45.57	301.04
	28.82	265.00	112.93	202.49	-55.30	367.94
	34.27	313.18	133.58	239.30	-65.03	434.83
1.00	35.94	319.17	136.42	243.49	-64.55	443.22
	30.61	270.07	115.53	206.03	-54.32	375.03
	25.27	220.97	94.64	168.57	-44.10	306.85
	19.94	171.86	73.75	131.11	-33.87	238.66
	14.61	122.76	52.86	93.65	-23.65	170.47
	9.28	73.66	31.97	56.19	-13.42	102.28

	3.94	24.55	11.08	18.73	-3.20	34.09
	1.30	22.95	9.17	17.51	-6.57	31.87
	6.28	68.84	28.69	52.52	-16.13	95.60
	11.27	114.73	48.21	87.53	-25.68	159.33
	16.25	160.63	67.74	122.54	-35.24	223.06
	21.23	206.52	87.26	157.55	-44.80	286.79
	26.22	252.42	106.79	192.56	-54.35	350.52
	31.20	298.31	126.31	227.57	-63.91	414.25
1.05	34.95	307.42	131.60	234.60	-61.71	426.89
	29.77	260.13	111.46	198.51	-51.92	361.22
	24.59	212.83	91.31	162.41	-42.13	295.54
	19.41	165.53	71.16	126.32	-32.34	229.86
	14.23	118.24	51.01	90.23	-22.54	164.19
	9.06	70.94	30.87	54.14	-12.75	98.51
	3.88	23.65	10.72	18.05	-2.96	32.84
	1.21	22.06	8.79	16.83	-6.37	30.63
	6.04	66.17	27.59	50.49	-15.51	91.88
	10.87	110.28	46.38	84.16	-24.64	153.14
	15.70	154.39	65.17	117.82	-33.77	214.39
	20.53	198.51	83.96	151.48	-42.91	275.65
	25.36	242.62	102.75	185.14	-52.04	336.90
	30.19	286.73	121.54	218.81	-61.17	398.16
1.10	34.06	296.84	127.27	226.59	-59.15	412.19
	29.02	251.17	107.79	191.73	-49.75	348.77
	23.98	205.50	88.31	156.87	-40.35	285.36
	18.94	159.84	68.83	122.01	-30.95	221.95
	13.90	114.17	49.35	87.15	-21.54	158.53
	8.86	68.50	29.87	52.29	-12.14	95.12
	3.82	22.83	10.39	17.43	-2.74	31.71
	1.13	21.26	8.46	16.23	-6.20	29.52
	5.82	63.77	26.59	48.68	-14.95	88.55
	10.51	106.28	44.73	81.13	-23.70	147.58
	15.21	148.79	62.86	113.58	-32.45	206.61
	19.90	191.30	81.00	146.03	-41.20	265.64
	24.59	233.81	99.13	178.48	-49.95	324.67
	29.28	276.32	117.26	210.93	-58.70	383.70
1.15	31.42	285.42	121.51	217.50	-58.66	396.39
	26.79	241.51	102.92	184.04	-49.33	335.40
	22.16	197.60	84.32	150.58	-40.01	274.42
	17.53	153.69	65.73	117.12	-30.68	213.44
	12.90	109.78	47.14	83.65	-21.35	152.46
	8.27	65.87	28.55	50.19	-12.02	91.47
	3.63	21.96	9.96	16.73	-2.69	30.49
	0.93	20.40	8.03	15.55	-6.17	28.33
	5.23	61.20	25.30	46.64	-14.84	85.00

	9.53	102.01	42.58	77.73	-23.51	141.66
	13.84	142.81	59.85	108.83	-32.18	198.33
	18.14	183.61	77.13	139.92	-40.85	255.00
	22.44	224.41	94.41	171.01	-49.52	311.66
	26.75	265.21	111.68	202.11	-58.19	368.33
	30.78	276.79	118.03	211.00	-56.47	384.40
1.20	26.25	234.21	99.97	178.54	-47.47	325.26
	21.72	191.63	81.92	146.07	-38.48	266.12
	17.19	149.04	63.86	113.61	-29.48	206.98
	12.66	106.46	45.81	81.15	-20.49	147.85
	8.13	63.88	27.75	48.69	-11.49	88.71
	3.60	21.29	9.69	16.23	-2.50	29.57
	0.86	19.75	7.76	15.06	-6.03	27.43
	5.07	59.25	24.51	45.17	-14.37	82.29
	9.27	98.76	41.26	75.28	-22.72	137.15
	13.47	138.26	58.01	105.40	-31.06	192.01
	17.68	177.76	74.75	135.51	-39.40	246.87
	21.88	217.27	91.50	165.62	-47.75	301.73
	26.08	256.77	108.25	195.73	-56.09	356.59
	29.40	268.13	114.06	204.27	-55.26	372.39
1.25	25.08	226.88	96.61	172.84	-46.45	315.10
	20.77	185.63	79.17	141.42	-37.63	257.81
	16.45	144.38	61.73	109.99	-28.82	200.52
	12.14	103.13	44.28	78.57	-20.01	143.23
	7.82	61.88	26.84	47.14	-11.20	85.94
	3.51	20.63	9.40	15.71	-2.38	28.65
	0.75	19.10	7.45	14.55	-5.95	26.53
	4.75	57.31	23.61	43.66	-14.12	79.60
	8.74	95.52	39.77	72.77	-22.28	132.66
	12.74	133.73	55.93	101.88	-30.44	185.73
	16.74	171.94	72.08	130.99	-38.60	238.79
	20.74	210.15	88.24	160.09	-46.77	291.86
	24.73	248.36	104.40	189.20	-54.93	344.92
	28.77	260.84	111.06	198.75	-53.52	362.26
1.30	24.55	220.71	94.08	168.17	-44.97	306.53
	20.33	180.58	77.09	137.59	-36.43	250.80
	16.12	140.45	60.11	107.02	-27.88	195.06
	11.90	100.32	43.13	76.44	-19.33	139.33
	7.69	60.19	26.15	45.86	-10.78	83.60
	3.47	20.06	9.17	15.29	-2.23	27.87
	0.69	18.56	7.22	14.14	-5.84	25.77
	4.59	55.68	22.93	42.42	-13.75	77.32
	8.49	92.79	38.63	70.70	-21.66	128.87
	12.39	129.91	54.34	98.98	-29.57	180.42
	16.29	167.03	70.05	127.26	-37.47	231.97

	20.19	204.14	85.75	155.54	-45.38	283.52
	24.09	241.26	101.46	183.83	-53.29	335.07
1.35	28.33	254.29	108.44	193.82	-51.79	353.15
	24.18	215.17	91.86	164.00	-43.50	298.82
	20.03	176.05	75.29	134.18	-35.22	244.49
	15.89	136.93	58.71	104.36	-26.93	190.16
	11.74	97.80	42.13	74.54	-18.65	135.83
	7.60	58.68	25.56	44.73	-10.36	81.50
	3.45	19.56	8.98	14.91	-2.08	27.17
	0.64	18.07	7.02	13.77	-5.74	25.09
	4.47	54.21	22.33	41.32	-13.39	75.28
	8.30	90.34	37.65	68.86	-21.04	125.47
	12.13	126.48	52.96	96.40	-28.70	175.66
	15.96	162.62	68.27	123.95	-36.35	225.84
	19.79	198.76	83.59	151.49	-44.01	276.03
	23.62	234.90	98.90	179.03	-51.66	326.22
1.40	25.75	246.09	103.87	187.11	-52.36	341.84
	22.00	208.23	87.99	158.32	-43.99	289.25
	18.26	170.37	72.12	129.54	-35.61	236.66
	14.51	132.51	56.25	100.75	-27.23	184.07
	10.76	94.65	40.38	71.97	-18.85	131.48
	7.02	56.79	24.51	43.18	-10.48	78.89
	3.27	18.93	8.63	14.39	-2.10	26.30
	0.44	17.47	6.68	13.28	-5.79	24.26
	3.90	52.40	21.32	39.84	-13.52	72.78
	7.36	87.33	35.97	66.40	-21.25	121.31
	10.81	122.26	50.61	92.96	-28.98	169.83
	14.27	157.19	65.26	119.52	-36.71	218.35
	17.73	192.13	79.90	146.08	-44.44	266.88
	21.19	227.06	94.55	172.64	-52.17	315.40
1.45	25.44	240.60	101.71	182.99	-50.83	334.20
	21.75	203.58	86.17	154.84	-42.68	282.78
	18.05	166.57	70.63	126.68	-34.54	231.37
	14.35	129.55	55.09	98.53	-26.39	179.95
	10.65	92.54	39.55	70.38	-18.25	128.54
	6.96	55.52	24.01	42.23	-10.10	77.12
	3.26	18.51	8.47	14.08	-1.96	25.71
	0.40	17.06	6.51	12.97	-5.70	23.69
	3.81	51.17	20.83	38.92	-13.21	71.08
	7.22	85.29	35.16	64.87	-20.72	118.47
	10.63	119.40	49.48	90.81	-28.22	165.86
	14.04	153.52	63.80	116.76	-35.73	213.24
	17.44	187.63	78.12	142.71	-43.24	260.63
	20.85	221.75	92.44	168.66	-50.74	308.02
1.50	25.17	235.53	99.73	179.19	-49.39	327.15

	21.52	199.29	84.50	151.62	-41.46	276.82
	17.86	163.06	69.26	124.05	-33.54	226.49
	14.21	126.82	54.03	96.49	-25.61	176.16
	10.56	90.59	38.80	68.92	-17.68	125.83
	6.91	54.35	23.56	41.35	-9.75	75.50
	3.25	18.12	8.33	13.78	-1.82	25.17
	0.37	16.68	6.36	12.69	-5.62	23.17
	3.73	50.05	20.38	38.08	-12.92	69.51
	7.09	83.41	34.41	63.46	-20.22	115.86
	10.46	116.78	48.44	88.84	-27.52	162.20
	13.82	150.14	62.46	114.23	-34.82	208.54
	17.18	183.50	76.49	139.61	-42.12	254.89
	20.55	216.87	90.52	165.00	-49.42	301.23
1.55	24.93	230.84	97.90	175.68	-48.05	320.62
	21.31	195.32	82.95	148.65	-40.33	271.30
	17.70	159.81	68.00	121.62	-32.60	221.97
	14.09	124.30	53.05	94.60	-24.88	172.64
	10.48	88.78	38.10	67.57	-17.15	123.32
	6.86	53.27	23.15	40.54	-9.42	73.99
	3.25	17.76	8.20	13.51	-1.70	24.66
	0.33	16.34	6.21	12.43	-5.55	22.69
	3.66	49.01	19.97	37.30	-12.65	68.07
	6.98	81.68	33.72	62.16	-19.76	113.45
	10.31	114.35	47.48	87.03	-26.87	158.83
	13.63	147.03	61.23	111.89	-33.98	204.21
	16.95	179.70	74.99	136.76	-41.08	249.59
	20.28	212.37	88.74	161.62	-48.19	294.97
1.60	24.48	226.26	95.98	172.19	-47.03	314.26
	20.94	191.45	81.33	145.70	-39.46	265.92
	17.39	156.64	66.68	119.21	-31.89	217.57
	13.85	121.83	52.02	92.72	-24.31	169.22
	10.31	87.02	37.37	66.23	-16.74	120.87
	6.77	52.21	22.71	39.74	-9.17	72.52
	3.23	17.40	8.06	13.25	-1.60	24.17
	0.29	16.00	6.06	12.18	-5.49	22.22
	3.54	48.00	19.54	36.53	-12.46	66.67
	6.80	80.00	33.01	60.88	-19.42	111.12
	10.05	112.00	46.48	85.24	-26.38	155.56
	13.31	144.00	59.95	109.59	-33.34	200.01
	16.56	176.00	73.42	133.95	-40.30	244.46
	19.82	208.00	86.90	158.30	-47.26	288.90
1.65	24.29	222.23	94.43	169.19	-45.85	308.66
	20.78	188.04	80.02	143.16	-38.45	261.18
	17.27	153.85	65.60	117.13	-31.06	213.69
	13.76	119.66	51.19	91.10	-23.66	166.20

	10.25	85.47	36.77	65.07	-16.27	118.72
	6.74	51.28	22.36	39.04	-8.88	71.23
	3.23	17.09	7.95	13.01	-1.48	23.74
	0.25	15.70	5.94	11.96	-5.43	21.81
	3.48	47.11	19.18	35.87	-12.23	65.44
	6.70	78.52	32.43	59.78	-19.02	109.06
	9.93	109.93	45.67	83.69	-25.81	152.69
	13.15	141.34	58.91	107.60	-32.61	196.31
	16.38	172.75	72.15	131.52	-39.40	239.94
	19.60	204.16	85.40	155.43	-46.19	283.56
1.70	24.13	218.49	92.99	166.39	-44.73	303.45
	20.65	184.87	78.80	140.79	-37.51	256.77
	17.17	151.26	64.61	115.19	-30.28	210.08
	13.68	117.65	50.42	89.59	-23.05	163.40
	10.20	84.03	36.23	64.00	-15.83	116.71
	6.72	50.42	22.04	38.40	-8.60	70.03
	3.24	16.81	7.84	12.80	-1.37	23.34
	0.23	15.43	5.83	11.75	-5.38	21.43
	3.42	46.29	18.86	35.26	-12.01	64.30
	6.62	77.16	31.89	58.76	-18.65	107.16
	9.82	108.02	44.92	82.26	-25.28	150.03
	13.01	138.88	57.95	105.77	-31.92	192.89
	16.21	169.74	70.98	129.27	-38.56	235.75
	19.41	200.61	84.01	152.77	-45.19	278.62
1.75	22.88	213.89	90.55	162.68	-44.80	297.10
	19.59	180.98	76.73	137.65	-37.56	251.39
	16.30	148.08	62.92	112.62	-30.32	205.68
	13.02	115.17	49.11	87.59	-23.07	159.98
	9.73	82.26	35.29	62.57	-15.83	114.27
	6.44	49.36	21.48	37.54	-8.59	68.56
	3.16	16.45	7.66	12.51	-1.35	22.85
	0.12	15.10	5.64	11.48	-5.41	20.97
	3.14	45.30	18.32	34.45	-12.05	62.92
	6.15	75.49	31.00	57.42	-18.70	104.87
	9.17	105.69	43.68	80.39	-25.34	146.81
	12.18	135.89	56.35	103.35	-31.99	188.76
	15.20	166.09	69.03	126.32	-38.63	230.70
	18.22	196.29	81.71	149.29	-45.28	272.65
1.80	22.77	210.66	89.33	160.27	-43.79	292.60
	19.50	178.25	75.71	135.61	-36.70	247.58
	16.24	145.84	62.08	110.96	-29.61	202.57
	12.97	113.43	48.45	86.30	-22.52	157.55
	9.70	81.02	34.83	61.64	-15.43	112.54
	6.43	48.61	21.20	36.99	-8.34	67.52
	3.17	16.20	7.58	12.33	-1.25	22.51

	0.09	14.86	5.55	11.31	-5.36	20.65
	3.09	44.59	18.05	33.93	-11.86	61.94
	6.09	74.32	30.55	56.55	-18.37	103.23
	9.09	104.05	43.04	79.16	-24.87	144.53
	12.09	133.78	55.54	101.78	-31.37	185.82
	15.08	163.51	68.04	124.40	-37.88	227.12
	18.08	193.24	80.54	147.02	-44.38	268.41
1.85	22.69	207.64	88.20	158.03	-42.83	288.40
	19.43	175.69	74.75	133.71	-35.88	244.03
	16.18	143.75	61.30	109.40	-28.93	199.66
	12.93	111.80	47.85	85.09	-21.99	155.29
	9.68	79.86	34.40	60.78	-15.04	110.92
	6.43	47.92	20.95	36.47	-8.10	66.55
	3.18	15.97	7.50	12.16	-1.15	22.18
	0.07	14.65	5.46	11.15	-5.32	20.34
	3.05	43.94	17.79	33.44	-11.69	61.03
	6.03	73.23	30.12	55.74	-18.06	101.72
	9.02	102.53	42.46	78.03	-24.43	142.40
	12.00	131.82	54.79	100.32	-30.80	183.09
	14.98	161.11	67.12	122.62	-37.17	223.78
	17.96	190.40	79.46	144.91	-43.54	264.46
	1.90	22.61	204.81	87.15	155.93	-41.92
19.38		173.30	73.86	131.94	-35.11	240.70
16.14		141.79	60.57	107.95	-28.30	196.94
12.90		110.28	47.29	83.96	-21.49	153.17
9.66		78.77	34.00	59.97	-14.67	109.41
6.42		47.26	20.71	35.98	-7.86	65.65
3.19		15.75	7.43	11.99	-1.05	21.88
0.05		14.44	5.37	11.00	-5.28	20.06
3.02		43.33	17.55	32.99	-11.52	60.18
5.98		72.22	29.73	54.98	-17.77	100.30
8.95		101.10	41.91	76.97	-24.01	140.42
11.92		129.99	54.09	98.97	-30.25	180.55
14.89		158.88	66.27	120.96	-36.50	220.67
17.86		187.76	78.46	142.95	-42.74	260.79
1.95	22.56	202.17	86.17	153.97	-41.05	280.79
	19.33	171.07	73.03	130.28	-34.37	237.59
	16.10	139.96	59.90	106.59	-27.69	194.39
	12.88	108.86	46.76	82.91	-21.01	151.19
	9.65	77.76	33.63	59.22	-14.32	107.99
	6.43	46.65	20.49	35.53	-7.64	64.80
	3.20	15.55	7.36	11.84	-0.96	21.60
	0.02	14.25	5.29	10.86	-5.24	19.80
	2.98	42.76	17.33	32.57	-11.37	59.39
	5.94	71.27	29.37	54.28	-17.49	98.99

	8.90	99.78	41.41	75.99	-23.62	138.58	
	11.85	128.29	53.45	97.70	-29.74	178.17	
	14.81	156.79	65.49	119.41	-35.87	217.77	
	17.77	185.30	77.52	141.12	-41.99	257.36	
2.00	22.51	199.69	85.25	152.13	-40.23	277.34	
	19.30	168.97	72.26	128.73	-33.67	234.67	
	16.08	138.25	59.27	105.32	-27.11	192.00	
	12.86	107.53	46.28	81.92	-20.55	149.33	
	9.65	76.80	33.28	58.51	-13.99	106.67	
	6.43	46.08	20.29	35.11	-7.43	64.00	
	3.21	15.36	7.30	11.70	-0.87	21.33	
	0.00	14.08	5.22	10.72	-5.21	19.55	
	2.95	42.23	17.12	32.17	-11.22	58.65	
	5.90	70.39	29.03	53.62	-17.24	97.75	
	8.85	98.54	40.94	75.07	-23.25	136.86	
	11.79	126.70	52.85	96.52	-29.26	175.96	
	14.74	154.85	64.75	117.97	-35.27	215.06	
	17.69	183.00	76.66	139.42	-41.28	254.16	
	2.05	22.48	197.36	84.40	150.41	-39.44	274.10
		19.27	167.00	71.54	127.27	-33.00	231.93
16.06		136.64	58.68	104.13	-26.56	189.76	
12.85		106.27	45.82	80.99	-20.11	147.59	
9.65		75.91	32.96	57.85	-13.67	105.42	
6.44		45.55	20.10	34.71	-7.23	63.25	
3.23		15.18	7.24	11.57	-0.78	21.08	
-0.02		13.91	5.15	10.60	-5.19	19.32	
2.92		41.74	16.93	31.81	-11.09	57.96	
5.86		69.56	28.72	53.01	-16.99	96.60	
8.80		97.38	40.50	74.22	-22.90	135.25	
11.74		125.21	52.29	95.42	-28.80	173.89	
14.68		153.03	64.07	116.63	-34.71	212.53	
17.62		180.86	75.86	137.83	-40.61	251.17	
2.10	22.46	195.18	83.61	148.80	-38.69	271.05	
	19.26	165.15	70.87	125.91	-32.36	229.35	
	16.05	135.12	58.14	103.01	-26.03	187.65	
	12.85	105.10	45.40	80.12	-19.70	145.95	
	9.65	75.07	32.66	57.23	-13.36	104.25	
	6.45	45.04	19.93	34.34	-7.03	62.55	
	3.25	15.01	7.19	11.45	-0.70	20.85	
	-0.04	13.76	5.08	10.49	-5.16	19.11	
	2.89	41.27	16.75	31.46	-10.96	57.32	
	5.83	68.79	28.42	52.44	-16.77	95.53	
	8.76	96.30	40.10	73.42	-22.57	133.74	
	11.70	123.82	51.77	94.39	-28.37	171.95	
	14.63	151.33	63.44	115.37	-34.17	210.16	

	17.57	178.85	75.11	136.35	-39.98	248.38
2.15	22.45	193.12	82.87	147.28	-37.97	268.19
	19.25	163.41	70.25	124.62	-31.75	226.93
	16.05	133.70	57.63	101.96	-25.52	185.67
	12.86	103.99	45.01	79.31	-19.30	144.41
	9.66	74.28	32.39	56.65	-13.07	103.15
	6.46	44.57	19.76	33.99	-6.84	61.89
	3.26	14.86	7.14	11.33	-0.62	20.63
	-0.06	13.61	5.02	10.38	-5.14	18.90
	2.87	40.84	16.59	31.14	-10.84	56.71
	5.80	68.06	28.15	51.91	-16.55	94.52
	8.73	95.29	39.72	72.67	-22.26	132.33
	11.66	122.52	51.28	93.43	-27.96	170.14
	14.59	149.74	62.85	114.20	-33.67	207.95
	17.52	176.97	74.41	134.96	-39.37	245.76
2.20	22.45	191.19	82.18	145.86	-37.28	265.50
	19.25	161.78	69.67	123.42	-31.16	224.65
	16.06	132.36	57.15	100.98	-25.04	183.81
	12.86	102.95	44.64	78.54	-18.91	142.96
	9.67	73.53	32.13	56.10	-12.79	102.11
	6.48	44.12	19.61	33.66	-6.66	61.27
	3.28	14.71	7.10	11.22	-0.54	20.42
	-0.08	13.48	4.96	10.28	-5.12	18.72
	2.85	40.43	16.43	30.85	-10.73	56.15
	5.78	67.39	27.90	51.41	-16.35	93.58
	8.70	94.34	39.37	71.97	-21.96	131.01
	11.63	121.30	50.83	92.54	-27.57	168.44
	14.56	148.25	62.30	113.10	-33.18	205.87
	17.49	175.21	73.77	133.66	-38.80	243.30
2.25	22.46	189.37	81.54	144.52	-36.62	262.96
	19.26	160.23	69.12	122.28	-30.60	222.50
	16.07	131.10	56.71	100.05	-24.57	182.05
	12.88	101.97	44.30	77.82	-18.54	141.59
	9.69	72.83	31.88	55.58	-12.51	101.14
	6.49	43.70	19.47	33.35	-6.49	60.68
	3.30	14.57	7.06	11.12	-0.46	20.23
	-0.10	13.35	4.91	10.19	-5.10	18.54
	2.83	40.05	16.28	30.56	-10.63	55.62
	5.75	66.75	27.66	50.94	-16.15	92.69
	8.68	93.45	39.04	71.32	-21.68	129.77
	11.61	120.15	50.41	91.69	-27.20	166.85
	14.53	146.86	61.79	112.07	-32.73	203.93
	17.46	173.56	73.17	132.45	-38.25	241.00
2.30	22.47	187.65	80.93	143.25	-35.99	260.57
	19.28	158.78	68.61	121.21	-30.05	220.48

	16.09	129.91	56.30	99.18	-24.12	180.39
	12.90	101.04	43.98	77.14	-18.18	140.30
	9.70	72.17	31.66	55.10	-12.25	100.22
	6.51	43.30	19.34	33.06	-6.32	60.13
	3.32	14.43	7.02	11.02	-0.38	20.04
	-0.12	13.23	4.86	10.10	-5.09	18.37
	2.81	39.69	16.15	30.30	-10.53	55.12
	5.73	66.16	27.44	50.50	-15.97	91.86
	8.66	92.62	38.73	70.71	-21.41	128.61
	11.59	119.08	50.02	90.91	-26.85	165.35
	14.51	145.54	61.31	111.11	-32.29	202.10
	17.44	172.01	72.61	131.31	-37.73	238.84
2.35	22.50	186.03	80.37	142.06	-35.37	258.31
	19.30	157.41	68.14	120.21	-29.53	218.57
	16.11	128.79	55.91	98.35	-23.68	178.83
	12.92	100.17	43.68	76.50	-17.84	139.09
	9.73	71.55	31.45	54.64	-12.00	99.35
	6.53	42.93	19.22	32.78	-6.15	59.61
	3.34	14.31	6.99	10.93	-0.31	19.87
	-0.14	13.12	4.81	10.02	-5.08	18.22
	2.79	39.36	16.02	30.06	-10.44	54.65
	5.72	65.60	27.23	50.09	-15.79	91.08
	8.65	91.84	38.45	70.13	-21.15	127.52
	11.57	118.07	49.66	90.17	-26.51	163.95
	14.50	144.31	60.87	110.21	-31.87	200.38
17.43	170.55	72.08	130.25	-37.23	236.82	
2.40	22.53	184.50	79.84	140.94	-34.78	256.17
	19.33	156.11	67.70	119.26	-29.03	216.76
	16.14	127.73	55.55	97.58	-23.27	177.35
	12.95	99.34	43.40	75.89	-17.51	137.94
	9.75	70.96	31.25	54.21	-11.75	98.53
	6.56	42.58	19.10	32.53	-5.99	59.12
	3.36	14.19	6.96	10.84	-0.23	19.71
	-0.15	13.01	4.76	9.94	-5.07	18.07
	2.78	39.04	15.90	29.83	-10.35	54.21
	5.71	65.07	27.04	49.71	-15.63	90.35
	8.63	91.10	38.18	69.59	-20.91	126.49
	11.56	117.13	49.32	89.48	-26.19	162.63
	14.49	143.16	60.46	109.36	-31.47	198.77
17.42	169.18	71.60	129.25	-36.75	234.91	
2.45	22.57	183.05	79.35	139.89	-34.21	254.16
	19.37	154.89	67.28	118.37	-28.54	215.06
	16.17	126.73	55.21	96.84	-22.86	175.95
	12.98	98.57	43.14	75.32	-17.19	136.85
	9.78	70.40	31.07	53.80	-11.51	97.75

	6.58	42.24	19.00	32.28	-5.84	58.65
	3.38	14.08	6.93	10.76	-0.16	19.55
	-0.17	12.92	4.72	9.87	-5.06	17.93
	2.76	38.75	15.79	29.61	-10.27	53.80
	5.69	64.58	26.86	49.35	-15.47	89.66
	8.63	90.41	37.93	69.09	-20.68	125.53
	11.56	116.24	49.00	88.83	-25.88	161.39
	14.49	142.07	60.07	108.57	-31.09	197.26
	17.43	167.90	71.15	128.31	-36.29	233.12
2.50	22.61	181.68	78.89	138.89	-33.66	252.25
	19.41	153.73	66.89	117.52	-28.07	213.44
	16.21	125.78	54.89	96.15	-22.47	174.63
	13.01	97.83	42.90	74.79	-16.88	135.83
	9.81	69.88	30.90	53.42	-11.28	97.02
	6.61	41.93	18.90	32.05	-5.68	58.21
	3.41	13.98	6.90	10.68	-0.09	19.40
	-0.19	12.82	4.68	9.80	-5.05	17.80
	2.75	38.47	15.68	29.41	-10.19	53.41
	5.69	64.11	26.69	49.01	-15.32	89.01
	8.62	89.76	37.70	68.62	-20.45	124.62
	11.56	115.40	48.71	88.22	-25.59	160.22
	14.50	141.05	59.72	107.82	-30.72	195.83
	17.43	166.69	70.72	127.43	-35.86	231.43
2.55	22.67	180.39	78.46	137.95	-33.13	250.44
	19.46	152.64	66.53	116.72	-27.61	211.91
	16.25	124.88	54.60	95.50	-22.09	173.38
	13.05	97.13	42.67	74.28	-16.57	134.85
	9.84	69.38	30.74	53.06	-11.06	96.32
	6.64	41.63	18.81	31.83	-5.54	57.79
	3.43	13.88	6.88	10.61	-0.02	19.26
	-0.21	12.73	4.64	9.74	-5.05	17.68
	2.74	38.20	15.59	29.22	-10.11	53.04
	5.68	63.67	26.53	48.69	-15.18	88.40
	8.62	89.14	37.48	68.17	-20.24	123.76
	11.56	114.61	48.43	87.65	-25.31	159.13
	14.51	140.08	59.38	107.13	-30.37	194.49
	17.45	165.55	70.33	126.60	-35.44	229.85
2.60	22.72	179.16	78.06	137.06	-32.61	248.73
	19.51	151.60	66.19	115.97	-27.17	210.47
	16.30	124.03	54.33	94.88	-21.73	172.20
	13.09	96.47	42.46	73.80	-16.28	133.93
	9.88	68.91	30.59	52.71	-10.84	95.67
	6.67	41.34	18.72	31.63	-5.39	57.40
	3.45	13.78	6.86	10.54	0.05	19.13
	-0.22	12.65	4.60	9.68	-5.04	17.57

	2.73	37.96	15.49	29.04	-10.04	52.70
	5.67	63.26	26.39	48.40	-15.04	87.83
	8.62	88.57	37.28	67.75	-20.04	122.96
	11.57	113.87	48.18	87.11	-25.04	158.09
	14.52	139.18	59.07	106.47	-30.03	193.22
	17.47	164.48	69.97	125.83	-35.03	228.35
2.65	22.79	178.00	77.68	136.21	-32.11	247.11
	19.57	150.62	65.88	115.26	-26.74	209.10
	16.35	123.23	54.07	94.30	-21.37	171.08
	13.13	95.85	42.26	73.35	-16.00	133.06
	9.91	68.46	30.45	52.39	-10.63	95.04
	6.70	41.08	18.65	31.43	-5.25	57.03
	3.48	13.69	6.84	10.48	0.12	19.01
	-0.24	12.57	4.56	9.62	-5.04	17.46
	2.72	37.72	15.41	28.87	-9.98	52.37
	5.67	62.87	26.25	48.11	-14.91	87.29
	8.63	88.02	37.10	67.36	-19.84	122.20
	11.58	113.17	47.94	86.61	-24.78	157.12
	14.54	138.32	58.78	105.85	-29.71	192.03
	17.49	163.47	69.63	125.10	-34.64	226.95
2.70	22.85	176.90	77.33	135.42	-31.63	245.58
	19.63	149.68	65.58	114.59	-26.32	207.80
	16.40	122.47	53.83	93.75	-21.02	170.01
	13.18	95.25	42.08	72.92	-15.72	132.23
	9.95	68.04	30.33	52.08	-10.42	94.45
	6.73	40.82	18.57	31.25	-5.12	56.67
	3.50	13.61	6.82	10.42	0.19	18.89
	-0.26	12.50	4.53	9.57	-5.04	17.36
	2.71	37.51	15.33	28.71	-9.91	52.07
	5.67	62.51	26.12	47.85	-14.78	86.78
	8.63	87.51	36.92	66.99	-19.65	121.49
	11.60	112.52	47.72	86.13	-24.52	156.20
	14.56	137.52	58.51	105.27	-29.40	190.91
	17.52	162.52	69.31	124.41	-34.27	225.62
2.75	22.93	175.86	77.01	134.67	-31.15	244.12
	19.69	148.80	65.31	113.95	-25.92	206.56
	16.46	121.75	53.61	93.23	-20.68	169.01
	13.23	94.69	41.91	72.51	-15.45	131.45
	9.99	67.64	30.21	51.79	-10.22	93.89
	6.76	40.58	18.51	31.08	-4.98	56.34
	3.53	13.53	6.81	10.36	0.25	18.78
	-0.27	12.43	4.50	9.52	-5.04	17.26
	2.70	37.30	15.25	28.56	-9.85	51.78
	5.67	62.16	26.00	47.60	-14.66	86.30
	8.64	87.03	36.76	66.65	-19.47	120.81

	11.61	111.90	47.51	85.69	-24.28	155.33	
	14.59	136.76	58.26	104.73	-29.09	189.85	
	17.56	161.63	69.02	123.77	-33.90	224.37	
2.80	23.00	174.86	76.70	133.95	-30.69	242.74	
	19.76	147.96	65.05	113.35	-25.52	205.39	
	16.52	121.06	53.40	92.74	-20.36	168.05	
	13.28	94.16	41.75	72.13	-15.19	130.70	
	10.04	67.26	30.10	51.52	-10.02	93.36	
	6.80	40.35	18.44	30.91	-4.85	56.02	
	3.55	13.45	6.79	10.30	0.32	18.67	
	-0.29	12.37	4.47	9.47	-5.04	17.17	
	2.69	37.10	15.18	28.42	-9.80	51.51	
	5.67	61.84	25.89	47.37	-14.55	85.84	
	8.65	86.58	36.61	66.32	-19.30	120.18	
	11.63	111.31	47.32	85.27	-24.05	154.52	
	14.62	136.05	58.03	104.22	-28.80	188.85	
	17.60	160.78	68.75	123.17	-33.55	223.19	
	2.85	23.09	173.92	76.42	133.28	-30.24	241.42
		19.84	147.17	64.81	112.78	-25.14	204.28
16.58		120.41	53.20	92.27	-20.04	167.14	
13.33		93.65	41.60	71.77	-14.93	130.00	
10.08		66.89	29.99	51.26	-9.83	92.86	
6.83		40.14	18.39	30.76	-4.72	55.71	
3.58		13.38	6.78	10.25	0.38	18.57	
-0.30		12.31	4.44	9.43	-5.05	17.08	
2.69		36.92	15.11	28.29	-9.74	51.25	
5.68		61.53	25.79	47.15	-14.44	85.41	
8.67		86.15	36.47	66.02	-19.13	119.58	
11.66		110.76	47.14	84.88	-23.83	153.75	
14.65		135.37	57.82	103.74	-28.52	187.91	
17.64		159.99	68.49	122.60	-33.22	222.08	
2.90	23.17	173.03	76.15	132.64	-29.81	240.18	
	19.91	146.41	64.59	112.24	-24.77	203.23	
	16.65	119.79	53.02	91.83	-19.72	166.28	
	13.39	93.17	41.46	71.42	-14.68	129.33	
	10.13	66.55	29.90	51.02	-9.64	92.38	
	6.87	39.93	18.33	30.61	-4.60	55.43	
	3.61	13.31	6.77	10.20	0.45	18.48	
	-0.32	12.25	4.41	9.39	-5.05	17.00	
	2.68	36.75	15.05	28.17	-9.69	51.01	
	5.68	61.24	25.69	46.95	-14.33	85.01	
	8.68	85.74	36.34	65.73	-18.97	119.01	
	11.68	110.24	46.98	84.51	-23.61	153.02	
	14.68	134.74	57.62	103.29	-28.25	187.02	
	17.68	159.24	68.26	122.07	-32.89	221.03	

2.95	23.26	172.18	75.90	132.04	-29.38	238.99
	19.99	145.69	64.38	111.72	-24.40	202.23
	16.72	119.20	52.86	91.41	-19.42	165.46
	13.45	92.71	41.33	71.10	-14.44	128.69
	10.18	66.22	29.81	50.78	-9.45	91.92
	6.91	39.73	18.29	30.47	-4.47	55.15
	3.63	13.24	6.76	10.16	0.51	18.38
	-0.33	12.19	4.38	9.35	-5.05	16.93
	2.68	36.58	14.99	28.05	-9.64	50.78
	5.69	60.97	25.60	46.76	-14.23	84.63
	8.70	85.36	36.21	65.46	-18.81	118.48
	11.71	109.75	46.82	84.16	-23.40	152.33
	14.72	134.14	57.43	102.86	-27.99	186.18
	17.74	158.53	68.04	121.56	-32.57	220.04
	3.00	23.36	171.38	75.67	131.47	-28.96
20.07		145.01	64.19	111.24	-24.04	201.27
16.79		118.65	52.70	91.01	-19.12	164.68
13.51		92.28	41.21	70.79	-14.20	128.08
10.23		65.91	29.73	50.56	-9.27	91.49
6.94		39.55	18.24	30.34	-4.35	54.89
3.66		13.18	6.75	10.11	0.57	18.30
-0.35		12.14	4.36	9.31	-5.06	16.85
2.67		36.43	14.94	27.94	-9.59	50.56
5.70		60.71	25.52	46.57	-14.13	84.27
8.72		85.00	36.10	65.20	-18.66	117.98
11.74		109.29	46.68	83.83	-23.20	151.69
14.77		133.57	57.26	102.46	-27.73	185.39
17.79		157.86	67.84	121.09	-32.26	219.10
3.05		23.45	170.61	75.46	130.92	-28.56
	20.16	144.36	64.01	110.78	-23.69	200.37
	16.86	118.12	52.56	90.64	-18.83	163.94
	13.57	91.87	41.10	70.50	-13.96	127.51
	10.28	65.62	29.65	50.35	-9.10	91.08
	6.98	39.37	18.20	30.21	-4.23	54.65
	3.69	13.12	6.75	10.07	0.63	18.22
	-0.37	12.09	4.34	9.28	-5.07	16.79
	2.67	36.28	14.89	27.84	-9.55	50.36
	5.70	60.47	25.44	46.40	-14.03	83.93
	8.74	84.66	36.00	64.97	-18.52	117.50
	11.78	108.85	46.55	83.53	-23.00	151.07
	14.81	133.04	57.10	102.09	-27.48	184.65
	17.85	157.23	67.66	120.65	-31.97	218.22
	3.10	23.55	169.88	75.26	130.41	-28.16
20.25		143.75	63.84	110.35	-23.35	199.51
16.94		117.61	52.42	90.28	-18.54	163.23

	13.64	91.48	41.00	70.22	-13.73	126.96
	10.33	65.34	29.58	50.16	-8.92	90.68
	7.02	39.20	18.16	30.09	-4.11	54.41
	3.72	13.07	6.74	10.03	0.69	18.14
	-0.38	12.05	4.31	9.25	-5.07	16.72
	2.67	36.15	14.84	27.75	-9.51	50.17
	5.71	60.24	25.37	46.24	-13.94	83.61
	8.76	84.34	35.90	64.74	-18.38	117.05
	11.81	108.44	46.43	83.24	-22.81	150.50
	14.86	132.53	56.96	101.74	-27.24	183.94
	17.91	156.63	67.49	120.23	-31.68	217.38
3.15	23.66	169.19	75.08	129.92	-27.77	234.81
	20.34	143.16	63.69	109.93	-23.02	198.69
	17.02	117.13	52.30	89.95	-18.26	162.56
	13.70	91.10	40.91	69.96	-13.51	126.44
	10.38	65.07	29.52	49.97	-8.75	90.31
	7.07	39.04	18.13	29.98	-4.00	54.19
	3.75	13.01	6.74	9.99	0.76	18.06
	-0.40	12.01	4.29	9.22	-5.08	16.66
	2.66	36.02	14.80	27.66	-9.47	49.98
	5.73	60.03	25.30	46.09	-13.85	83.31
	8.79	84.04	35.81	64.53	-18.24	116.63
	11.85	108.05	46.32	82.97	-22.62	149.95
	14.91	132.06	56.82	101.41	-27.01	183.27
	17.97	156.07	67.33	119.84	-31.39	216.60
3.20	23.76	168.53	74.91	129.46	-27.39	233.89
	20.43	142.60	63.55	109.54	-22.69	197.91
	17.10	116.68	52.19	89.63	-17.99	161.92
	13.77	90.75	40.82	69.71	-13.29	125.94
	10.44	64.82	29.46	49.79	-8.59	89.96
	7.11	38.89	18.10	29.88	-3.88	53.97
	3.78	12.96	6.74	9.96	0.82	17.99
	-0.41	11.96	4.27	9.19	-5.09	16.60
	2.66	35.89	14.76	27.57	-9.43	49.81
	5.74	59.82	25.24	45.95	-13.77	83.02
	8.81	83.75	35.73	64.33	-18.11	116.23
	11.89	107.68	46.22	82.72	-22.44	149.44
	14.96	131.61	56.70	101.10	-26.78	182.64
	18.03	155.54	67.19	119.48	-31.12	215.85
3.25	23.87	167.91	74.76	129.02	-27.01	233.01
	20.53	142.07	63.42	109.17	-22.36	197.16
	17.18	116.24	52.08	89.32	-17.72	161.32
	13.84	90.41	40.75	69.47	-13.07	125.47
	10.49	64.58	29.41	49.62	-8.42	89.62
	7.15	38.75	18.07	29.77	-3.77	53.77

	3.81	12.92	6.74	9.92	0.88	17.92
	-0.43	11.93	4.25	9.16	-5.10	16.55
	2.66	35.78	14.72	27.49	-9.39	49.65
	5.75	59.63	25.19	45.82	-13.68	82.75
	8.84	83.48	35.65	64.15	-17.98	115.85
	11.93	107.33	46.12	82.48	-22.27	148.95
	15.01	131.18	56.59	100.81	-26.56	182.05
	18.10	155.03	67.06	119.13	-30.85	215.15
3.30	23.98	167.31	74.61	128.61	-26.65	232.18
	20.63	141.57	63.30	108.82	-22.05	196.46
	17.27	115.83	51.99	89.04	-17.45	160.74
	13.91	90.09	40.67	69.25	-12.86	125.02
	10.55	64.35	29.36	49.47	-8.26	89.30
	7.19	38.61	18.05	29.68	-3.66	53.58
	3.84	12.87	6.73	9.89	0.94	17.86
	-0.44	11.89	4.23	9.14	-5.11	16.50
	2.66	35.67	14.68	27.42	-9.36	49.50
	5.76	59.45	25.13	45.70	-13.60	82.50
	8.87	83.23	35.58	63.98	-17.85	115.49
	11.97	107.00	46.04	82.25	-22.10	148.49
	15.07	130.78	56.49	100.53	-26.34	181.49
	18.17	154.56	66.94	118.81	-30.59	214.49
3.35	24.10	166.74	74.48	128.22	-26.28	231.38
	20.73	141.09	63.19	108.49	-21.74	195.78
	17.35	115.44	51.90	88.77	-17.19	160.19
	13.98	89.78	40.61	69.04	-12.65	124.59
	10.61	64.13	29.32	49.31	-8.10	88.99
	7.24	38.48	18.03	29.59	-3.55	53.40
	3.86	12.83	6.74	9.86	0.99	17.80
	-0.46	11.86	4.21	9.12	-5.12	16.45
	2.66	35.57	14.65	27.35	-9.32	49.35
	5.78	59.28	25.08	45.58	-13.53	82.25
	8.90	82.99	35.52	63.81	-17.73	115.16
	12.01	106.70	45.96	82.05	-21.93	148.06
	15.13	130.41	56.39	100.28	-26.13	180.96
	18.25	154.12	66.83	118.51	-30.34	213.86
3.40	24.22	166.20	74.36	127.85	-25.93	230.62
	20.83	140.63	63.09	108.18	-21.43	195.14
	17.44	115.06	51.82	88.51	-16.94	159.66
	14.06	89.49	40.55	68.84	-12.44	124.18
	10.67	63.92	29.28	49.17	-7.94	88.70
	7.28	38.35	18.01	29.50	-3.44	53.22
	3.89	12.78	6.74	9.83	1.05	17.74
	-0.47	11.82	4.19	9.09	-5.13	16.41
	2.66	35.47	14.62	27.28	-9.29	49.22

	5.79	59.11	25.04	45.47	-13.45	82.03
	8.93	82.76	35.46	63.66	-17.61	114.84
	12.06	106.40	45.89	81.85	-21.77	147.65
	15.19	130.05	56.31	100.04	-25.93	180.46
	18.32	153.70	66.73	118.23	-30.09	213.27
3.45	24.34	165.69	74.25	127.49	-25.58	229.90
	20.93	140.20	63.00	107.88	-21.13	194.53
	17.53	114.71	51.75	88.27	-16.68	159.16
	14.13	89.22	40.50	68.65	-12.23	123.79
	10.73	63.73	29.24	49.04	-7.79	88.42
	7.33	38.24	17.99	29.42	-3.34	53.05
	3.93	12.75	6.74	9.81	1.11	17.68
	-0.48	11.79	4.18	9.07	-5.15	16.36
	2.66	35.38	14.59	27.22	-9.26	49.09
	5.81	58.96	25.00	45.37	-13.38	81.81
	8.96	82.55	35.41	63.52	-17.49	114.54
	12.11	106.13	45.82	81.67	-21.61	147.26
	15.25	129.71	56.23	99.81	-25.73	179.99
	18.40	153.30	66.65	117.96	-29.84	212.71
3.50	24.46	165.20	74.16	127.16	-25.24	229.22
	21.04	139.78	62.92	107.60	-20.84	193.95
	17.62	114.37	51.68	88.03	-16.44	158.69
	14.21	88.95	40.45	68.47	-12.03	123.42
	10.79	63.54	29.21	48.91	-7.63	88.16
	7.37	38.12	17.98	29.34	-3.23	52.90
	3.96	12.71	6.74	9.78	1.17	17.63
	-0.50	11.76	4.16	9.05	-5.16	16.32
	2.66	35.29	14.56	27.16	-9.23	48.97
	5.83	58.82	24.96	45.27	-13.31	81.61
	8.99	82.34	35.36	63.38	-17.38	114.26
	12.15	105.87	45.76	81.49	-21.46	146.90
	15.32	129.40	56.17	99.60	-25.53	179.54
	18.48	152.92	66.57	117.71	-29.61	212.19
3.55	24.58	164.73	74.07	126.85	-24.90	228.56
	21.15	139.39	62.85	107.33	-20.55	193.40
	17.72	114.04	51.63	87.82	-16.19	158.24
	14.28	88.70	40.41	68.30	-11.84	123.07
	10.85	63.36	29.19	48.79	-7.48	87.91
	7.42	38.01	17.97	29.27	-3.13	52.75
	3.99	12.67	6.75	9.76	1.23	17.58
	-0.51	11.74	4.14	9.04	-5.17	16.28
	2.67	35.21	14.54	27.11	-9.20	48.85
	5.85	58.68	24.93	45.19	-13.24	81.42
	9.02	82.15	35.32	63.26	-17.27	113.99
	12.20	105.63	45.71	81.33	-21.31	146.56

	15.38	129.10	56.11	99.41	-25.34	179.12
	18.56	152.57	66.50	117.48	-29.37	211.69
3.60	24.71	164.29	73.99	126.55	-24.57	227.94
	21.26	139.01	62.78	107.08	-20.26	192.87
	17.81	113.74	51.57	87.61	-15.95	157.80
	14.36	88.46	40.37	68.14	-11.64	122.74
	10.91	63.19	29.16	48.67	-7.33	87.67
	7.47	37.91	17.96	29.20	-3.02	52.60
	4.02	12.64	6.75	9.73	1.29	17.53
	-0.53	11.71	4.13	9.02	-5.18	16.25
	2.67	35.13	14.51	27.06	-9.18	48.74
	5.86	58.55	24.90	45.10	-13.17	81.24
	9.06	81.98	35.28	63.14	-17.16	113.74
	12.26	105.40	45.67	81.19	-21.16	146.23
	15.45	128.82	56.05	99.23	-25.15	178.73
	18.65	152.24	66.44	117.27	-29.14	211.23
	3.65	24.84	163.86	73.92	126.27	-24.24
21.37		138.65	62.72	106.84	-19.98	192.37
17.91		113.44	51.53	87.41	-15.71	157.39
14.44		88.23	40.34	67.99	-11.45	122.42
10.98		63.02	29.14	48.56	-7.19	87.44
7.51		37.81	17.95	29.14	-2.92	52.46
4.05		12.60	6.76	9.71	1.34	17.49
-0.54		11.69	4.12	9.01	-5.20	16.21
2.67		35.06	14.49	27.02	-9.15	48.64
5.88		58.43	24.87	45.03	-13.11	81.07
9.10		81.81	35.25	63.04	-17.06	113.50
12.31		105.18	45.63	81.05	-21.01	145.93
15.52		128.55	56.01	99.06	-24.97	178.36
18.73		151.93	66.38	117.07	-28.92	210.78
3.70		24.97	163.46	73.85	126.00	-23.92
	21.49	138.31	62.67	106.61	-19.70	191.89
	18.01	113.17	51.49	87.23	-15.48	157.00
	14.52	88.02	40.31	67.85	-11.26	122.11
	11.04	62.87	29.13	48.46	-7.04	87.22
	7.56	37.72	17.94	29.08	-2.82	52.33
	4.08	12.57	6.76	9.69	1.40	17.44
	-0.56	11.66	4.10	8.99	-5.21	16.18
	2.67	34.99	14.47	26.97	-9.13	48.55
	5.90	58.32	24.85	44.95	-13.04	80.91
	9.13	81.65	35.22	62.94	-16.96	113.28
	12.36	104.98	45.59	80.92	-20.87	145.64
	15.59	128.30	55.97	98.90	-24.79	178.01
	18.82	151.63	66.34	116.88	-28.70	210.37
	3.75	25.10	163.08	73.80	125.75	-23.60

	21.60	137.99	62.63	106.40	-19.42	191.44
	18.10	112.90	51.46	87.06	-15.25	156.63
	14.61	87.81	40.28	67.71	-11.07	121.82
	11.11	62.72	29.11	48.36	-6.90	87.02
	7.61	37.63	17.94	29.02	-2.72	52.21
	4.11	12.54	6.77	9.67	1.46	17.40
	-0.57	11.64	4.09	8.98	-5.23	16.15
	2.68	34.93	14.46	26.93	-9.10	48.46
	5.92	58.21	24.83	44.89	-12.98	80.76
	9.17	81.50	35.19	62.84	-16.86	113.07
	12.42	104.79	45.56	80.80	-20.73	145.37
	15.66	128.07	55.93	98.75	-24.61	177.68
	18.91	151.36	66.30	116.71	-28.48	209.98
3.80	25.23	162.71	73.75	125.51	-23.29	225.73
	21.72	137.68	62.59	106.20	-19.15	191.00
	18.20	112.65	51.43	86.89	-15.02	156.27
	14.69	87.62	40.26	67.58	-10.89	121.55
	11.17	62.58	29.10	48.27	-6.75	86.82
	7.66	37.55	17.94	28.96	-2.62	52.09
	4.14	12.52	6.77	9.65	1.51	17.36
	-0.58	11.62	4.07	8.97	-5.24	16.12
	2.68	34.87	14.44	26.90	-9.08	48.37
	5.94	58.11	24.81	44.83	-12.92	80.62
	9.21	81.36	35.17	62.76	-16.76	112.87
	12.47	104.61	45.54	80.69	-20.60	145.12
	15.74	127.85	55.90	98.62	-24.43	177.36
	19.00	151.10	66.27	116.55	-28.27	209.61
3.85	25.37	162.37	73.71	125.28	-22.98	225.24
	21.84	137.39	62.56	106.01	-18.89	190.59
	18.30	112.41	51.40	86.73	-14.79	155.94
	14.77	87.43	40.25	67.46	-10.70	121.28
	11.24	62.45	29.09	48.19	-6.61	86.63
	7.71	37.47	17.94	28.91	-2.52	51.98
	4.18	12.49	6.78	9.64	1.57	17.33
	-0.60	11.60	4.06	8.95	-5.26	16.10
	2.68	34.81	14.43	26.86	-9.06	48.29
	5.96	58.02	24.79	44.77	-12.86	80.49
	9.25	81.23	35.15	62.68	-16.66	112.68
	12.53	104.44	45.52	80.58	-20.46	144.88
	15.81	127.64	55.88	98.49	-24.26	177.07
	19.09	150.85	66.25	116.40	-28.06	209.27
3.90	25.51	162.04	73.68	125.07	-22.67	224.78
	21.96	137.11	62.53	105.83	-18.62	190.20
	18.41	112.18	51.38	86.59	-14.57	155.62
	14.86	87.25	40.24	67.35	-10.52	121.03

	11.31	62.32	29.09	48.10	-6.47	86.45
	7.76	37.39	17.94	28.86	-2.42	51.87
	4.21	12.46	6.79	9.62	1.63	17.29
	-0.61	11.59	4.05	8.94	-5.28	16.07
	2.69	34.76	14.41	26.83	-9.04	48.22
	5.99	57.93	24.78	44.72	-12.80	80.36
	9.29	81.11	35.14	62.60	-16.57	112.51
	12.59	104.28	45.50	80.49	-20.33	144.65
	15.89	127.45	55.87	98.38	-24.10	176.80
	19.18	150.62	66.23	116.26	-27.86	208.94
3.95	25.64	161.72	73.66	124.87	-22.37	224.34
	22.08	136.84	62.51	105.66	-18.36	189.82
	18.51	111.96	51.37	86.45	-14.35	155.31
	14.94	87.08	40.23	67.24	-10.34	120.80
	11.38	62.20	29.09	48.03	-6.33	86.28
	7.81	37.32	17.94	28.82	-2.33	51.77
	4.24	12.44	6.80	9.61	1.68	17.26
	-0.63	11.57	4.04	8.93	-5.29	16.05
	2.69	34.71	14.40	26.80	-9.02	48.15
	6.01	57.85	24.77	44.67	-12.75	80.25
	9.33	80.99	35.13	62.53	-16.48	112.34
	12.64	104.13	45.49	80.40	-20.20	144.44
	15.96	127.27	55.85	98.27	-23.93	176.54
	19.28	150.41	66.22	116.14	-27.66	208.64
4.00	25.78	161.43	73.64	124.68	-22.07	223.92
	22.20	136.59	62.50	105.50	-18.10	189.47
	18.61	111.76	51.36	86.32	-14.13	155.02
	15.03	86.92	40.22	67.14	-10.16	120.57
	11.44	62.09	29.09	47.96	-6.20	86.12
	7.86	37.25	17.95	28.77	-2.23	51.67
	4.27	12.42	6.81	9.59	1.74	17.22
	-0.64	11.55	4.03	8.92	-5.31	16.03
	2.70	34.66	14.39	26.77	-9.00	48.08
	6.03	57.77	24.76	44.62	-12.69	80.14
	9.37	80.88	35.12	62.47	-16.38	112.19
	12.70	103.99	45.48	80.32	-20.08	144.25
	16.04	127.10	55.85	98.17	-23.77	176.30
	19.38	150.21	66.21	116.02	-27.46	208.36
4.05	25.93	161.14	73.62	124.51	-21.77	223.52
	22.32	136.35	62.49	105.35	-17.84	189.13
	18.72	111.56	51.36	86.20	-13.92	154.74
	15.12	86.77	40.22	67.04	-9.99	120.35
	11.51	61.98	29.09	47.89	-6.06	85.97
	7.91	37.19	17.95	28.73	-2.13	51.58
	4.31	12.40	6.82	9.58	1.79	17.19

	-0.65	11.54	4.02	8.92	-5.33	16.01
	2.70	34.62	14.38	26.75	-8.98	48.02
	6.05	57.70	24.75	44.58	-12.64	80.03
	9.41	80.78	35.11	62.42	-16.30	112.05
	12.76	103.86	45.48	80.25	-19.95	144.06
	16.12	126.94	55.85	98.08	-23.61	176.08
	19.47	150.02	66.21	115.91	-27.26	208.09
4.10	26.07	160.87	73.62	124.34	-21.48	223.13
	22.45	136.12	62.49	105.21	-17.59	188.81
	18.83	111.37	51.35	86.08	-13.70	154.48
	15.20	86.62	40.22	66.95	-9.81	120.15
	11.58	61.87	29.09	47.82	-5.93	85.82
	7.96	37.12	17.96	28.69	-2.04	51.49
	4.34	12.37	6.83	9.56	1.85	17.16
	-0.67	11.53	4.01	8.91	-5.34	15.99
	2.70	34.58	14.37	26.73	-8.96	47.96
	6.08	57.63	24.74	44.55	-12.59	79.94
	9.45	80.69	35.11	62.36	-16.21	111.91
	12.83	103.74	45.48	80.18	-19.83	143.89
	16.20	126.79	55.85	98.00	-23.45	175.87
	19.57	149.85	66.22	115.82	-27.07	207.84
	4.15	26.21	160.62	73.62	124.19	-21.19
22.57		135.91	62.49	105.08	-17.34	188.50
18.93		111.20	51.36	85.97	-13.49	154.23
15.29		86.49	40.23	66.87	-9.64	119.95
11.65		61.78	29.10	47.76	-5.79	85.68
8.01		37.07	17.97	28.66	-1.94	51.41
4.37		12.36	6.84	9.55	1.90	17.14
-0.68		11.51	4.00	8.90	-5.36	15.97
2.71		34.54	14.37	26.71	-8.95	47.91
6.10		57.57	24.74	44.51	-12.53	79.85
9.49		80.60	35.11	62.32	-16.12	111.79
12.89		103.63	45.48	80.12	-19.71	143.73
16.28		126.66	55.85	97.93	-23.29	175.67
19.67		149.68	66.23	115.73	-26.88	207.61
4.20		26.36	160.37	73.62	124.04	-20.90
	22.70	135.70	62.49	104.96	-17.09	188.21
	19.04	111.03	51.36	85.87	-13.28	153.99
	15.38	86.36	40.24	66.79	-9.47	119.77
	11.72	61.68	29.11	47.71	-5.66	85.55
	8.06	37.01	17.98	28.62	-1.85	51.33
	4.41	12.34	6.85	9.54	1.96	17.11
	-0.70	11.50	3.99	8.90	-5.38	15.95
	2.72	34.51	14.36	26.69	-8.93	47.86
	6.13	57.51	24.74	44.48	-12.48	79.77

	9.54	80.52	35.11	62.28	-16.04	111.67
	12.95	103.52	45.49	80.07	-19.59	143.58
	16.36	126.53	55.87	97.86	-23.14	175.49
	19.77	149.53	66.24	115.65	-26.69	207.39
4.25	26.51	160.14	73.63	123.90	-20.62	222.10
	22.83	135.51	62.50	104.84	-16.84	187.93
	19.15	110.87	51.37	85.78	-13.07	153.76
	15.47	86.23	40.25	66.72	-9.30	119.59
	11.79	61.59	29.12	47.66	-5.53	85.42
	8.12	36.96	17.99	28.59	-1.76	51.25
	4.44	12.32	6.86	9.53	2.01	17.08
	-0.71	11.49	3.98	8.89	-5.40	15.94
	2.72	34.47	14.36	26.67	-8.92	47.81
	6.15	57.46	24.74	44.46	-12.43	79.69
	9.58	80.44	35.12	62.24	-15.95	111.56
	13.01	103.42	45.50	80.02	-19.47	143.44
	16.44	126.41	55.88	97.80	-22.99	175.32
	19.88	149.39	66.26	115.58	-26.51	207.19
	4.30	26.65	159.93	73.64	123.78	-20.33
22.96		135.32	62.52	104.73	-16.60	187.67
19.26		110.72	51.39	85.69	-12.87	153.55
15.56		86.11	40.26	66.65	-9.13	119.43
11.87		61.51	29.13	47.61	-5.40	85.30
8.17		36.91	18.00	28.56	-1.66	51.18
4.47		12.30	6.88	9.52	2.07	17.06
-0.72		11.48	3.97	8.89	-5.42	15.92
2.73		34.44	14.35	26.66	-8.90	47.77
6.18		57.41	24.74	44.43	-12.39	79.62
9.63		80.37	35.13	62.20	-15.87	111.46
13.08		103.33	45.51	79.98	-19.36	143.31
16.53		126.30	55.90	97.75	-22.84	175.16
19.98		149.26	66.28	115.52	-26.33	207.00
4.35	26.80	159.72	73.66	123.66	-20.06	221.50
	23.09	135.15	62.53	104.63	-16.36	187.42
	19.37	110.57	51.40	85.61	-12.66	153.35
	15.65	86.00	40.28	66.58	-8.97	119.27
	11.94	61.43	29.15	47.56	-5.27	85.19
	8.22	36.86	18.02	28.54	-1.57	51.12
	4.51	12.29	6.89	9.51	2.12	17.04
	-0.74	11.47	3.96	8.88	-5.44	15.91
	2.73	34.42	14.35	26.65	-8.89	47.73
	6.20	57.36	24.74	44.41	-12.34	79.55
	9.67	80.31	35.14	62.18	-15.79	111.37
	13.14	103.25	45.53	79.94	-19.24	143.19
	16.61	126.20	55.92	97.70	-22.69	175.01

	20.08	149.14	66.31	115.47	-26.15	206.83
4.40	26.95	159.52	73.69	123.55	-19.78	221.22
	23.22	134.98	62.56	104.54	-16.12	187.19
	19.48	110.44	51.42	85.53	-12.46	153.15
	15.75	85.90	40.29	66.53	-8.80	119.12
	12.01	61.35	29.16	47.52	-5.14	85.08
	8.28	36.81	18.03	28.51	-1.48	51.05
	4.54	12.27	6.90	9.50	2.18	17.02
	-0.75	11.46	3.95	8.88	-5.45	15.90
	2.74	34.39	14.35	26.64	-8.87	47.69
	6.23	57.32	24.75	44.39	-12.29	79.49
	9.72	80.25	35.15	62.15	-15.71	111.28
	13.21	103.18	45.55	79.91	-19.13	143.08
	16.70	126.10	55.95	97.66	-22.55	174.88
	20.19	149.03	66.34	115.42	-25.97	206.67
4.45	27.11	159.34	73.71	123.44	-19.50	220.96
	23.35	134.82	62.58	104.45	-15.88	186.96
	19.59	110.31	51.45	85.46	-12.26	152.97
	15.84	85.80	40.31	66.47	-8.64	118.98
	12.08	61.28	29.18	47.48	-5.01	84.98
	8.33	36.77	18.05	28.49	-1.39	50.99
	4.57	12.26	6.91	9.50	2.23	17.00
	-0.77	11.46	3.94	8.88	-5.47	15.89
	2.74	34.37	14.35	26.63	-8.86	47.66
	6.25	57.28	24.76	44.38	-12.25	79.43
	9.76	80.19	35.16	62.13	-15.63	111.21
	13.27	103.11	45.57	79.88	-19.02	142.98
	16.78	126.02	55.97	97.63	-22.40	174.75
	20.29	148.93	66.38	115.38	-25.79	206.53
4.50	27.26	159.16	73.75	123.35	-19.23	220.71
	23.48	134.67	62.61	104.37	-15.65	186.75
	19.71	110.19	51.47	85.40	-12.06	152.80
	15.93	85.70	40.34	66.42	-8.47	118.84
	12.16	61.22	29.20	47.44	-4.89	84.89
	8.38	36.73	18.06	28.47	-1.30	50.93
	4.61	12.24	6.93	9.49	2.29	16.98
	-0.78	11.45	3.94	8.87	-5.49	15.88
	2.75	34.35	14.35	26.62	-8.85	47.63
	6.28	57.25	24.76	44.37	-12.20	79.38
	9.81	80.14	35.18	62.11	-15.55	111.13
	13.34	103.04	45.59	79.86	-18.91	142.89
	16.87	125.94	56.01	97.60	-22.26	174.64
	20.40	148.84	66.42	115.35	-25.62	206.39

A2.1.5.- Cercha con 16 divisiones del cordón

En la Figura 5 se indica el cálculo de la cercha con el cordón dividido en 16 espacios para alturas desde 50cm hasta 450cm con intervalos de 5cm, con el software Matlab2018.

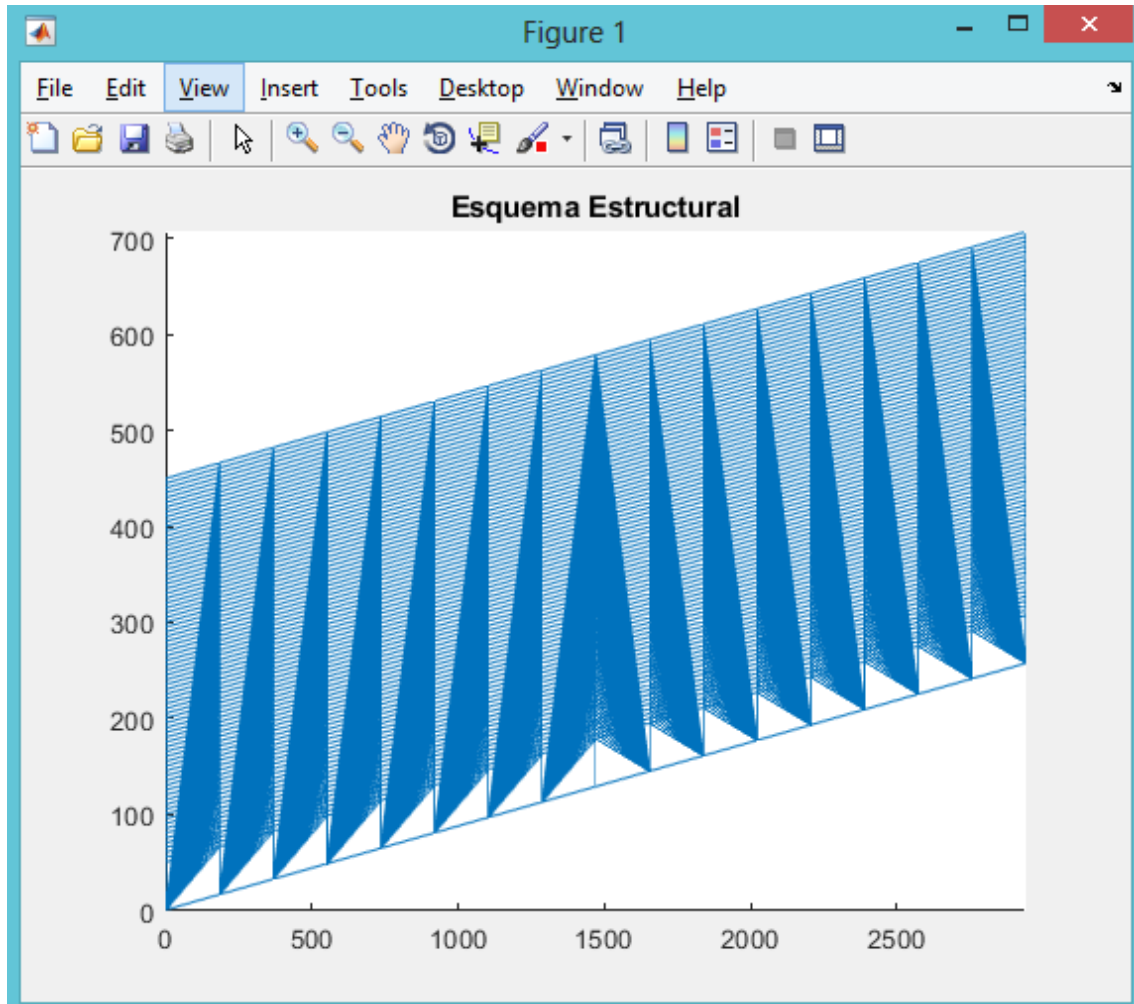


Figura 5. Cercha con el cordón dividido en 16 espacios (ejes en cm).

En la Tabla 17 se muestran las combinaciones de esfuerzos para el cordón inferior en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 17. Combinación de esfuerzos del cordón inferior - 16 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)
0.50	182.33	1098.60	507.01	853.04	-142.35	1523.14
	108.93	645.21	298.69	500.99	-80.83	894.54
	46.67	261.57	122.35	203.11	-29.01	362.65
	-52.31	-4.45	-40.62	-22.03	-72.53	13.13

	-296.45	-44.42	-230.19	-134.42	-411.01	45.58
	-470.83	-73.25	-365.59	-214.85	-652.78	68.34
	-575.46	-90.94	-446.83	-263.29	-797.84	81.41
	-610.33	-97.49	-473.91	-279.77	-846.19	84.79
	-610.33	-97.49	-473.91	-279.77	-846.19	84.79
	-575.46	-92.90	-446.83	-264.27	-797.84	78.48
	-470.83	-77.16	-365.59	-216.80	-652.78	62.47
	-296.45	-50.29	-230.19	-137.35	-411.01	36.78
	-52.31	-12.27	-40.62	-25.94	-72.53	1.40
	36.89	261.57	117.46	203.11	-43.67	362.65
	97.20	645.21	292.82	500.99	-98.43	894.54
	168.64	1098.60	500.17	853.04	-162.88	1523.14
0.55	150.27	982.62	445.12	759.39	-144.59	1362.93
	90.10	577.09	262.34	445.99	-82.15	800.45
	39.04	233.96	107.61	180.81	-29.54	324.51
	-46.79	-2.92	-36.16	-19.08	-64.90	13.24
	-265.15	-35.77	-204.91	-117.72	-367.78	46.18
	-421.12	-59.51	-325.45	-188.32	-584.11	69.30
	-514.70	-74.15	-397.77	-230.88	-713.92	82.58
	-545.90	-79.68	-421.88	-245.39	-757.18	86.03
	-545.90	-79.68	-421.88	-245.39	-757.18	86.03
	-514.70	-76.10	-397.77	-231.86	-713.92	79.65
	-421.12	-63.42	-325.45	-190.28	-584.11	63.43
	-265.15	-41.63	-204.91	-120.66	-367.78	37.39
	-46.79	-10.74	-36.16	-22.99	-64.90	1.51
	29.26	233.96	102.72	180.81	-44.20	324.51
	78.37	577.09	256.48	445.99	-99.74	800.45
	136.58	982.62	438.28	759.39	-165.11	1362.93
0.60	130.21	892.62	400.20	687.99	-139.79	1238.40
	78.32	524.24	235.96	404.06	-79.33	727.32
	34.26	212.53	96.92	163.81	-28.40	294.86
	-42.51	-1.96	-32.76	-16.94	-58.97	13.01
	-240.87	-30.36	-185.65	-105.60	-334.17	44.89
	-382.55	-50.91	-294.85	-169.07	-530.74	67.24
	-467.56	-63.64	-360.38	-207.35	-648.69	80.07
	-495.90	-68.53	-382.22	-220.43	-688.00	83.36
	-495.90	-68.53	-382.22	-220.43	-688.00	83.36
	-467.56	-65.60	-360.38	-208.33	-648.69	77.13
	-382.55	-54.82	-294.85	-171.03	-530.74	61.38
	-240.87	-36.22	-185.65	-108.53	-334.17	36.09
	-42.51	-9.78	-32.76	-20.85	-58.97	1.28
	24.48	212.53	92.03	163.81	-43.06	294.86
	66.59	524.24	230.10	404.06	-96.93	727.32
	116.52	892.62	393.36	687.99	-160.32	1238.40
0.65	110.26	813.51	359.23	624.62	-138.70	1129.03

	66.60	477.77	211.90	366.84	-78.69	663.08
	29.51	193.69	87.16	148.72	-28.14	268.82
	-38.74	-1.01	-29.74	-14.99	-53.76	12.96
	-219.52	-24.97	-168.55	-94.55	-304.66	44.60
	-348.65	-42.37	-267.69	-151.51	-483.87	66.78
	-426.12	-53.20	-327.18	-185.89	-591.40	79.50
	-451.95	-57.46	-347.01	-197.67	-627.24	82.76
	-451.95	-57.46	-347.01	-197.67	-627.24	82.76
	-426.12	-55.15	-327.18	-186.86	-591.40	76.56
	-348.65	-46.28	-267.69	-153.47	-483.87	60.91
	-219.52	-30.84	-168.55	-97.48	-304.66	35.80
	-38.74	-8.84	-29.74	-18.90	-53.76	1.23
	19.74	193.69	82.27	148.72	-42.80	268.82
	54.87	477.77	206.03	366.84	-96.29	663.08
	96.58	813.51	352.39	624.62	-159.23	1129.03
0.70	96.10	748.62	327.04	573.23	-134.84	1039.24
	58.29	439.67	192.99	336.66	-76.42	610.35
	26.14	178.24	79.50	136.48	-27.22	247.44
	-35.65	-0.34	-27.30	-13.46	-49.49	12.78
	-202.01	-21.15	-154.68	-85.86	-280.43	43.55
	-320.84	-36.30	-245.67	-137.72	-445.39	65.12
	-392.14	-45.78	-300.26	-169.02	-544.36	77.47
	-415.90	-49.59	-318.46	-179.79	-577.36	80.61
	-415.90	-49.59	-318.46	-179.79	-577.36	80.61
	-392.14	-47.73	-300.26	-170.00	-544.36	74.54
	-320.84	-40.21	-245.67	-139.67	-445.39	59.25
	-202.01	-27.02	-154.68	-88.79	-280.43	34.76
	-35.65	-8.16	-27.30	-17.37	-49.49	1.04
	16.36	178.24	74.61	136.48	-41.88	247.44
	46.56	439.67	187.13	336.66	-94.02	610.35
	82.42	748.62	320.20	573.23	-155.37	1039.24
0.75	87.34	695.91	302.65	532.20	-127.97	966.16
	53.14	408.71	178.67	312.56	-72.39	567.43
	24.05	165.69	73.69	126.72	-25.58	230.04
	-33.14	0.08	-25.34	-12.29	-46.01	12.45
	-187.78	-18.79	-143.61	-79.28	-260.71	41.70
	-298.25	-32.54	-228.09	-127.27	-414.07	62.18
	-364.52	-41.19	-278.77	-156.25	-506.09	73.88
	-386.61	-44.72	-295.67	-166.24	-536.76	76.80
	-386.61	-44.72	-295.67	-166.24	-536.76	76.80
	-364.52	-43.14	-278.77	-157.23	-506.09	70.94
	-298.25	-36.45	-228.09	-129.22	-414.07	56.31
	-187.78	-24.65	-143.61	-82.21	-260.71	32.90
	-33.14	-7.74	-25.34	-16.20	-46.01	0.72
14.28	165.69	68.80	126.72	-40.25	230.04	

	41.41	408.71	172.81	312.56	-89.99	567.43
	73.65	695.91	295.81	532.20	-148.50	966.16
0.80	77.02	647.12	278.66	493.65	-124.62	898.64
	47.08	380.06	164.58	289.92	-70.42	527.77
	21.60	154.08	67.98	117.54	-24.78	213.96
	-30.82	0.57	-23.51	-11.15	-42.79	12.29
	-174.62	-16.00	-133.21	-72.81	-242.49	40.80
	-277.34	-28.12	-211.56	-116.98	-385.13	60.74
	-338.97	-35.78	-258.58	-143.69	-470.72	72.12
	-359.51	-38.99	-274.25	-152.91	-499.24	74.94
	-359.51	-38.99	-274.25	-152.91	-499.24	74.94
	-338.97	-37.74	-258.58	-144.66	-470.72	69.19
	-277.34	-32.03	-211.56	-118.94	-385.13	54.88
	-174.62	-21.87	-133.21	-75.74	-242.49	32.00
	-30.82	-7.25	-23.51	-15.06	-42.79	0.56
	11.82	154.08	63.09	117.54	-39.45	213.96
	35.35	380.06	158.72	289.92	-88.02	527.77
	63.33	647.12	271.82	493.65	-145.15	898.64
0.85	73.56	609.72	263.14	465.28	-116.02	846.68
	45.05	358.09	155.46	273.26	-65.37	497.25
	20.77	145.17	64.28	110.78	-22.74	201.59
	-29.03	0.73	-22.16	-10.41	-40.32	11.88
	-164.53	-15.07	-125.55	-68.62	-228.47	38.48
	-261.31	-26.64	-199.40	-110.33	-362.86	57.06
	-319.38	-33.97	-243.72	-135.55	-443.50	67.62
	-338.73	-37.06	-258.49	-144.29	-470.38	70.16
	-338.73	-37.06	-258.49	-144.29	-470.38	70.16
	-319.38	-35.92	-243.72	-136.53	-443.50	64.68
	-261.31	-30.55	-199.40	-112.28	-362.86	51.19
	-164.53	-20.94	-125.55	-71.55	-228.47	29.68
	-29.03	-7.09	-22.16	-14.32	-40.32	0.15
	11.00	145.17	59.39	110.78	-37.40	201.59
	33.32	358.09	149.60	273.26	-82.97	497.25
	59.87	609.72	256.29	465.28	-136.55	846.68
0.90	66.93	572.93	245.79	436.51	-111.93	795.70
	41.16	336.48	145.28	256.36	-62.96	467.31
	19.19	136.41	60.15	103.93	-21.76	189.45
	-27.28	1.05	-20.79	-9.59	-37.89	11.68
	-154.60	-13.28	-117.79	-63.93	-214.71	37.37
	-245.54	-23.80	-187.08	-102.89	-341.01	55.30
	-300.11	-30.50	-228.65	-126.47	-416.79	65.47
	-318.29	-33.38	-242.50	-134.65	-442.05	67.88
	-318.29	-33.38	-242.50	-134.65	-442.05	67.88
	-300.11	-32.45	-228.65	-127.44	-416.79	62.54
	-245.54	-27.71	-187.08	-104.85	-341.01	49.43

	-154.60	-19.15	-117.79	-66.87	-214.71	28.57
	-27.28	-6.77	-20.79	-13.50	-37.89	-0.05
	9.42	136.41	55.26	103.93	-36.43	189.45
	29.42	336.48	139.41	256.36	-80.56	467.31
	53.24	572.93	238.95	436.51	-132.46	795.70
0.95	64.22	543.23	233.49	413.99	-105.04	754.43
	39.57	319.04	138.05	243.14	-58.92	443.08
	18.55	129.34	57.22	98.57	-20.12	179.63
	-25.87	1.18	-19.71	-9.00	-35.93	11.36
	-146.59	-12.55	-111.71	-60.62	-203.58	35.51
	-232.81	-22.64	-177.42	-97.62	-323.33	52.35
	-284.55	-29.08	-216.85	-120.02	-395.18	61.86
	-301.79	-31.88	-229.99	-127.81	-419.13	64.06
	-301.79	-31.88	-229.99	-127.81	-419.13	64.06
	-284.55	-31.03	-216.85	-121.00	-395.18	58.93
	-232.81	-26.55	-177.42	-99.58	-323.33	46.48
	-146.59	-18.42	-111.71	-63.55	-203.58	26.71
	-25.87	-6.64	-19.71	-12.91	-35.93	-0.37
	8.77	129.34	52.33	98.57	-34.79	179.63
	27.83	319.04	132.19	243.14	-76.52	443.08
	50.54	543.23	226.65	413.99	-125.57	754.43
	1.00	58.74	513.46	219.37	390.68	-101.89
36.35		301.55	129.76	229.45	-57.07	418.85
17.25		122.25	53.86	93.02	-19.37	169.81
-24.45		1.44	-18.60	-8.33	-33.96	11.21
-138.55		-11.07	-105.42	-56.81	-192.45	34.66
-220.05		-20.29	-167.43	-91.57	-305.65	51.00
-268.95		-26.21	-204.64	-112.63	-373.57	60.21
-285.25		-28.83	-217.04	-119.97	-396.21	62.31
-285.25		-28.83	-217.04	-119.97	-396.21	62.31
-268.95		-28.16	-204.64	-113.61	-373.57	57.28
-220.05		-24.20	-167.43	-93.53	-305.65	45.13
-138.55		-16.94	-105.42	-59.74	-192.45	25.86
-24.45		-6.38	-18.60	-12.24	-33.96	-0.53
7.47		122.25	48.97	93.02	-34.03	169.81
24.62		301.55	123.90	229.45	-74.67	418.85
45.06	513.46	212.53	390.68	-122.42	713.18	
1.05	56.84	489.58	209.66	372.64	-95.98	679.99
	35.23	287.53	124.06	218.85	-53.60	399.36
	16.79	116.57	51.55	88.72	-17.96	161.90
	-23.31	1.53	-17.74	-7.87	-32.38	10.92
	-132.11	-10.56	-100.55	-54.18	-183.49	33.07
	-209.82	-19.47	-159.70	-87.41	-291.42	48.46
	-256.44	-25.21	-195.19	-107.54	-356.19	57.12
	-271.99	-27.78	-207.02	-114.58	-377.77	59.02

	-271.99	-27.78	-207.02	-114.58	-377.77	59.02
	-256.44	-27.17	-195.19	-108.52	-356.19	54.18
	-209.82	-23.38	-159.70	-89.36	-291.42	42.60
	-132.11	-16.42	-100.55	-57.12	-183.49	24.27
	-23.31	-6.29	-17.74	-11.78	-32.38	-0.81
	7.02	116.57	46.66	88.72	-32.63	161.90
	23.50	287.53	118.19	218.85	-71.19	399.36
	43.15	489.58	202.82	372.64	-116.51	679.99
1.10	54.88	467.63	200.59	356.01	-90.84	649.50
	34.08	274.64	118.73	209.09	-50.58	381.45
	16.32	111.34	49.39	84.77	-16.74	154.64
	-22.27	1.62	-16.95	-7.43	-30.93	10.68
	-126.19	-10.03	-96.07	-51.74	-175.26	31.68
	-200.41	-18.63	-152.58	-83.52	-278.36	46.26
	-244.95	-24.18	-186.48	-102.79	-340.21	54.43
	-259.79	-26.69	-197.79	-109.54	-360.83	56.17
	-259.79	-26.69	-197.79	-109.54	-360.83	56.17
	-244.95	-26.14	-186.48	-103.77	-340.21	51.49
	-200.41	-22.54	-152.58	-85.48	-278.36	40.40
	-126.19	-15.89	-96.07	-54.67	-175.26	22.88
	-22.27	-6.20	-16.95	-11.34	-30.93	-1.05
	6.55	111.34	44.50	84.77	-31.40	154.64
	22.34	274.64	112.87	209.09	-68.18	381.45
	41.19	467.63	193.75	356.01	-111.37	649.50
1.15	53.32	447.83	192.55	341.07	-85.91	621.98
	33.16	263.01	114.01	200.31	-47.69	365.29
	15.95	106.63	47.48	81.21	-15.57	148.09
	-21.33	1.70	-16.24	-7.05	-29.62	10.45
	-120.84	-9.61	-92.03	-49.57	-167.84	30.35
	-191.93	-17.96	-146.17	-80.08	-266.56	44.15
	-234.58	-23.37	-178.65	-98.58	-325.80	51.84
	-248.80	-25.82	-189.48	-105.07	-345.54	53.43
	-248.80	-25.82	-189.48	-105.07	-345.54	53.43
	-234.58	-25.32	-178.65	-99.56	-325.80	48.91
	-191.93	-21.87	-146.17	-82.03	-266.56	38.29
	-120.84	-15.47	-92.03	-52.50	-167.84	21.55
	-21.33	-6.12	-16.24	-10.96	-29.62	-1.29
	6.18	106.63	42.59	81.21	-30.23	148.09
21.43	263.01	108.14	200.31	-65.28	365.29	
39.64	447.83	185.71	341.07	-106.44	621.98	
1.20	48.13	425.91	181.41	323.60	-85.16	591.67
	30.11	250.14	107.47	190.05	-47.25	347.49
	14.72	101.41	44.82	77.05	-15.39	140.87
	-20.28	1.94	-15.41	-6.52	-28.17	10.41
	-114.93	-8.21	-87.32	-46.56	-159.66	30.15

	-182.53	-15.74	-138.69	-75.31	-253.57	43.83
	-223.10	-20.65	-169.50	-92.75	-309.92	51.45
	-236.62	-22.94	-179.78	-98.89	-328.70	53.01
	-236.62	-22.94	-179.78	-98.89	-328.70	53.01
	-223.10	-22.60	-169.50	-93.72	-309.92	48.52
	-182.53	-19.65	-138.69	-77.26	-253.57	37.96
	-114.93	-14.07	-87.32	-49.50	-159.66	21.35
	-20.28	-5.88	-15.41	-10.43	-28.17	-1.32
	4.94	101.41	39.94	77.05	-30.05	140.87
	18.38	250.14	101.60	190.05	-64.84	347.49
	34.44	425.91	174.57	323.60	-105.69	591.67
1.25	46.96	409.36	174.78	311.14	-80.86	568.66
	29.43	240.42	103.57	182.73	-44.72	333.97
	14.44	97.47	43.24	74.08	-14.36	135.39
	-19.49	2.00	-14.82	-6.20	-27.08	10.20
	-110.46	-7.89	-83.96	-44.77	-153.45	28.99
	-175.44	-15.24	-133.35	-72.46	-243.71	41.99
	-214.43	-20.04	-162.98	-89.27	-297.87	49.20
	-227.42	-22.29	-172.86	-95.20	-315.92	50.62
	-227.42	-22.29	-172.86	-95.20	-315.92	50.62
	-214.43	-21.99	-162.98	-90.25	-297.87	46.26
	-175.44	-19.15	-133.35	-74.42	-243.71	36.12
	-110.46	-13.76	-83.96	-47.71	-153.45	20.19
	-19.49	-5.82	-14.82	-10.12	-27.08	-1.53
	4.66	97.47	38.36	74.08	-29.03	135.39
	17.70	240.42	97.71	182.73	-62.31	333.97
	33.28	409.36	167.94	311.14	-101.39	568.66
1.30	45.89	394.09	168.66	299.65	-76.88	547.42
	28.80	231.45	99.98	175.98	-42.38	321.50
	14.18	93.83	41.79	71.34	-13.42	130.34
	-18.77	2.05	-14.27	-5.91	-26.07	10.02
	-106.34	-7.60	-80.86	-43.12	-147.72	27.91
	-168.90	-14.78	-128.42	-69.84	-234.61	40.28
	-206.43	-19.48	-156.96	-86.07	-286.74	47.11
	-218.94	-21.69	-166.47	-91.80	-304.12	48.41
	-218.94	-21.69	-166.47	-91.80	-304.12	48.41
	-206.43	-21.43	-156.96	-87.04	-286.74	44.18
	-168.90	-18.69	-128.42	-71.80	-234.61	34.42
	-106.34	-13.47	-80.86	-46.06	-147.72	19.12
	-18.77	-5.77	-14.27	-9.82	-26.07	-1.72
	4.41	93.83	36.90	71.34	-28.08	130.34
	17.07	231.45	94.11	175.98	-59.98	321.50
	32.20	394.09	161.82	299.65	-97.41	547.42
1.35	44.51	379.56	162.61	288.61	-73.59	527.23
	27.99	222.92	96.42	169.50	-40.45	309.64

	13.86	90.37	40.34	68.72	-12.63	125.53
	-18.07	2.12	-13.74	-5.63	-25.11	9.86
	-102.42	-7.23	-77.88	-41.49	-142.27	27.03
	-162.67	-14.19	-123.69	-67.24	-225.96	38.87
	-198.82	-18.75	-151.18	-82.89	-276.17	45.39
	-210.87	-20.92	-160.34	-88.44	-292.91	46.59
	-210.87	-20.92	-160.34	-88.44	-292.91	46.59
	-198.82	-20.71	-151.18	-83.87	-276.17	42.46
	-162.67	-18.10	-123.69	-69.20	-225.96	33.01
	-102.42	-13.10	-77.88	-44.42	-142.27	18.23
	-18.07	-5.70	-13.74	-9.54	-25.11	-1.87
	4.08	90.37	35.46	68.72	-27.30	125.53
	16.25	222.92	90.56	169.50	-58.05	309.64
	30.82	379.56	155.76	288.61	-94.12	527.23
1.40	43.61	366.45	157.37	278.75	-70.15	509.00
	27.46	215.22	93.35	163.71	-38.43	298.94
	13.64	87.25	39.10	66.37	-11.81	121.19
	-17.45	2.16	-13.27	-5.38	-24.24	9.69
	-98.88	-6.99	-75.22	-40.07	-137.35	26.10
	-157.05	-13.80	-119.46	-65.00	-218.14	37.40
	-191.95	-18.28	-146.01	-80.15	-266.62	43.59
	-203.58	-20.43	-154.86	-85.53	-282.78	44.67
	-203.58	-20.43	-154.86	-85.53	-282.78	44.67
	-191.95	-20.24	-146.01	-81.13	-266.62	40.65
	-157.05	-17.71	-119.46	-66.95	-218.14	31.53
	-98.88	-12.85	-75.22	-43.01	-137.35	17.30
	-17.45	-5.66	-13.27	-9.29	-24.24	-2.04
	3.87	87.25	34.21	66.37	-26.48	121.19
	15.73	215.22	87.48	163.71	-56.03	298.94
	29.92	366.45	150.52	278.75	-90.68	509.00
1.45	42.78	354.25	152.49	269.57	-66.94	492.04
	26.97	208.05	90.48	158.32	-36.54	288.98
	13.44	84.34	37.94	64.18	-11.05	117.15
	-16.87	2.20	-12.84	-5.14	-23.43	9.54
	-95.59	-6.76	-72.74	-38.76	-132.77	25.23
	-151.82	-13.44	-115.53	-62.91	-210.87	36.02
	-185.56	-17.84	-141.21	-77.60	-257.74	41.91
	-196.80	-19.96	-149.76	-82.82	-273.36	42.89
	-196.80	-19.96	-149.76	-82.82	-273.36	42.89
	-185.56	-19.80	-141.21	-78.57	-257.74	38.97
	-151.82	-17.36	-115.53	-64.87	-210.87	30.16
	-95.59	-12.63	-72.74	-41.69	-132.77	16.43
	-16.87	-5.62	-12.84	-9.05	-23.43	-2.19
	3.67	84.34	33.05	64.18	-25.71	117.15
	15.24	208.05	84.62	158.32	-54.14	288.98

	29.09	354.25	145.65	269.57	-87.47	492.04
1.50	40.22	341.08	146.17	259.23	-65.72	473.81
	25.47	200.32	86.77	152.25	-35.83	278.27
	12.84	81.21	36.43	61.72	-10.76	112.81
	-16.24	2.32	-12.34	-4.84	-22.56	9.48
	-92.04	-6.07	-69.95	-37.05	-127.85	24.90
	-146.18	-12.35	-111.10	-60.20	-203.06	35.50
	-178.66	-16.51	-135.79	-74.28	-248.19	41.27
	-189.49	-18.54	-144.02	-79.30	-263.23	42.22
	-189.49	-18.54	-144.02	-79.30	-263.23	42.22
	-178.66	-18.46	-135.79	-75.26	-248.19	38.34
	-146.18	-16.26	-111.10	-62.16	-203.06	29.63
	-92.04	-11.94	-69.95	-39.99	-127.85	16.11
	-16.24	-5.50	-12.34	-8.75	-22.56	-2.25
	3.06	81.21	31.54	61.72	-25.42	112.81
	13.74	200.32	80.90	152.25	-53.43	278.27
	26.54	341.08	139.33	259.23	-86.25	473.81
1.55	39.56	330.49	141.98	251.28	-62.86	459.08
	25.08	194.10	84.31	147.58	-34.15	269.62
	12.68	78.69	35.43	59.83	-10.08	109.31
	-15.74	2.35	-11.97	-4.64	-21.86	9.35
	-89.18	-5.90	-67.81	-35.92	-123.88	24.13
	-141.64	-12.07	-107.69	-58.40	-196.75	34.27
	-173.12	-16.16	-131.62	-72.09	-240.47	39.77
	-183.61	-18.18	-139.60	-76.98	-255.05	40.62
	-183.61	-18.18	-139.60	-76.98	-255.05	40.62
	-173.12	-18.11	-131.62	-73.07	-240.47	36.84
	-141.64	-15.98	-107.69	-60.36	-196.75	28.41
	-89.18	-11.76	-67.81	-38.85	-123.88	15.33
	-15.74	-5.47	-11.97	-8.55	-21.86	-2.38
	2.90	78.69	30.55	59.83	-24.74	109.31
	13.35	194.10	78.44	147.58	-51.74	269.62
	25.87	330.49	135.13	251.28	-83.39	459.08
1.60	38.94	320.57	138.05	243.83	-60.17	445.28
	24.72	188.27	82.00	143.20	-32.57	261.51
	12.53	76.33	34.50	58.06	-9.44	106.02
	-15.27	2.38	-11.61	-4.46	-21.20	9.22
	-86.50	-5.73	-65.80	-34.86	-120.16	23.41
	-137.39	-11.80	-104.50	-56.72	-190.83	33.12
	-167.92	-15.84	-127.72	-70.03	-233.24	38.36
	-178.09	-17.83	-135.46	-74.79	-247.38	39.13
	-178.09	-17.83	-135.46	-74.79	-247.38	39.13
	-167.92	-17.79	-127.72	-71.01	-233.24	35.43
	-137.39	-15.71	-104.50	-58.68	-190.83	27.25
	-86.50	-11.59	-65.80	-37.80	-120.16	14.61

	-15.27	-5.44	-11.61	-8.37	-21.20	-2.51	
	2.75	76.33	29.61	58.06	-24.10	106.02	
	12.99	188.27	76.14	143.20	-50.16	261.51	
	25.25	320.57	131.21	243.83	-80.70	445.28	
1.65	38.36	311.25	134.37	236.84	-57.64	432.32	
	24.38	182.80	79.84	139.10	-31.08	253.90	
	12.39	74.11	33.62	56.39	-8.84	102.93	
	-14.82	2.41	-11.28	-4.28	-20.59	9.10	
	-83.99	-5.57	-63.91	-33.87	-116.66	22.72	
	-133.39	-11.55	-101.50	-55.14	-185.28	32.04	
	-163.04	-15.53	-124.06	-68.10	-226.45	37.04	
	-172.92	-17.51	-131.58	-72.75	-240.18	37.73	
	-172.92	-17.51	-131.58	-72.75	-240.18	37.73	
	-163.04	-17.49	-124.06	-69.08	-226.45	34.10	
	-133.39	-15.46	-101.50	-57.10	-185.28	26.17	
	-83.99	-11.44	-63.91	-36.80	-116.66	13.92	
	-14.82	-5.41	-11.28	-8.19	-20.59	-2.63	
	2.62	74.11	28.73	56.39	-23.50	102.93	
	12.65	182.80	73.97	139.10	-48.68	253.90	
	24.68	311.25	127.52	236.84	-78.17	432.32	
	1.70	37.82	302.48	130.90	230.26	-55.26	420.13
		24.06	177.65	77.80	135.23	-29.68	246.74
12.26		72.02	32.80	54.82	-8.27	100.03	
-14.40		2.44	-10.96	-4.12	-20.01	8.99	
-81.62		-5.43	-62.13	-32.93	-113.37	22.08	
-129.63		-11.32	-98.68	-53.66	-180.05	31.01	
-158.44		-15.25	-120.61	-66.29	-220.07	35.79	
-168.05		-17.21	-127.92	-70.82	-233.40	36.40	
-168.05		-17.21	-127.92	-70.82	-233.40	36.40	
-158.44		-17.20	-120.61	-67.26	-220.07	32.86	
-129.63		-15.23	-98.68	-55.61	-180.05	25.15	
-81.62		-11.29	-62.13	-35.87	-113.37	13.28	
-14.40		-5.39	-10.96	-8.03	-20.01	-2.75	
2.49		72.02	27.91	54.82	-22.93	100.03	
12.33		177.65	71.94	135.23	-47.28	246.74	
24.13	302.48	124.06	230.26	-75.79	420.13		
1.75	37.31	294.22	127.63	224.06	-53.01	408.63	
	23.76	172.79	75.88	131.59	-28.36	239.99	
	12.14	70.05	32.02	53.35	-7.73	97.29	
	-14.01	2.46	-10.67	-3.96	-19.46	8.88	
	-79.39	-5.29	-60.46	-32.05	-110.27	21.47	
	-126.09	-11.10	-96.02	-52.26	-175.13	30.05	
	-154.11	-14.98	-117.36	-64.58	-214.04	34.61	
	-163.45	-16.93	-124.48	-69.01	-227.02	35.15	
	-163.45	-16.93	-124.48	-69.01	-227.02	35.15	

	-154.11	-16.94	-117.36	-65.55	-214.04	31.68
	-126.09	-15.01	-96.02	-54.21	-175.13	24.18
	-79.39	-11.15	-60.46	-34.98	-110.27	12.67
	-14.01	-5.36	-10.67	-7.87	-19.46	-2.85
	2.37	70.05	27.13	53.35	-22.40	97.29
	12.03	172.79	70.02	131.59	-45.96	239.99
	23.63	294.22	120.79	224.06	-73.54	408.63
1.80	36.83	286.41	124.55	218.20	-50.88	397.78
	23.48	168.21	74.07	128.15	-27.11	233.61
	12.03	68.19	31.28	51.95	-7.23	94.71
	-13.64	2.48	-10.39	-3.81	-18.94	8.78
	-77.29	-5.16	-58.88	-31.22	-107.34	20.90
	-122.75	-10.90	-93.52	-50.94	-170.48	29.14
	-150.03	-14.73	-114.30	-62.96	-208.36	33.50
	-159.12	-16.66	-121.22	-67.30	-220.99	33.97
	-159.12	-16.66	-121.22	-67.30	-220.99	33.97
	-150.03	-16.69	-114.30	-63.94	-208.36	30.56
	-122.75	-14.81	-93.52	-52.89	-170.48	23.27
	-77.29	-11.03	-58.88	-34.15	-107.34	12.10
	-13.64	-5.34	-10.39	-7.72	-18.94	-2.95
	2.25	68.19	26.40	51.95	-21.89	94.71
	11.75	168.21	68.21	128.15	-44.71	233.61
	23.15	286.41	117.71	218.20	-71.41	397.78
1.85	36.38	279.03	121.64	212.67	-48.87	387.51
	23.22	163.88	72.36	124.90	-25.93	227.59
	11.92	66.44	30.59	50.63	-6.75	92.27
	-13.29	2.50	-10.13	-3.67	-18.45	8.68
	-75.29	-5.04	-57.39	-30.43	-104.57	20.36
	-119.58	-10.71	-91.14	-49.69	-166.08	28.28
	-146.16	-14.50	-111.40	-61.43	-202.98	32.44
	-155.02	-16.41	-118.15	-65.68	-215.29	32.85
	-155.02	-16.41	-118.15	-65.68	-215.29	32.85
	-146.16	-16.45	-111.40	-62.41	-202.98	29.51
	-119.58	-14.62	-91.14	-51.64	-166.08	22.41
	-75.29	-10.90	-57.39	-33.37	-104.57	11.56
	-13.29	-5.32	-10.13	-7.58	-18.45	-3.05
	2.15	66.44	25.70	50.63	-21.41	92.27
	11.48	163.88	66.50	124.90	-43.53	227.59
22.70	279.03	114.80	212.67	-69.40	387.51	
1.90	36.97	273.05	119.89	208.43	-45.95	379.16
	23.56	160.36	71.34	122.41	-24.22	222.68
	12.06	65.01	30.18	49.63	-6.05	90.28
	-13.00	2.48	-9.93	-3.59	-18.06	8.54
	-73.68	-5.20	-56.24	-29.96	-102.31	19.57
	-117.02	-10.96	-89.33	-48.94	-162.50	27.02

	-143.03	-14.80	-109.18	-60.52	-198.61	30.91
	-151.70	-16.74	-115.80	-64.71	-210.64	31.23
	-151.70	-16.74	-115.80	-64.71	-210.64	31.23
	-143.03	-16.76	-109.18	-61.50	-198.61	27.98
	-117.02	-14.87	-89.33	-50.89	-162.50	21.16
	-73.68	-11.06	-56.24	-32.89	-102.31	10.77
	-13.00	-5.35	-9.93	-7.50	-18.06	-3.19
	2.29	65.01	25.29	49.63	-20.72	90.28
	11.83	160.36	65.47	122.41	-41.81	222.68
	23.28	273.05	113.05	208.43	-66.48	379.16
1.95	36.56	266.41	117.27	203.45	-44.15	369.92
	23.32	156.46	69.79	119.49	-23.16	217.25
	11.96	63.43	29.55	48.44	-5.62	88.08
	-12.69	2.50	-9.69	-3.47	-17.62	8.46
	-71.89	-5.09	-54.90	-29.25	-99.82	19.08
	-114.18	-10.78	-87.19	-47.81	-158.54	26.25
	-139.55	-14.59	-106.57	-59.14	-193.77	29.97
	-148.01	-16.51	-113.03	-63.25	-205.51	30.23
	-148.01	-16.51	-113.03	-63.25	-205.51	30.23
	-139.55	-16.54	-106.57	-60.12	-193.77	27.04
	-114.18	-14.69	-87.19	-49.77	-158.54	20.39
	-71.89	-10.95	-54.90	-32.19	-99.82	10.28
	-12.69	-5.33	-9.69	-7.38	-17.62	-3.27
	2.19	63.43	24.66	48.44	-20.29	88.08
	11.59	156.46	63.93	119.49	-40.76	217.25
	22.87	266.41	110.42	203.45	-64.68	369.92
2.00	36.17	260.10	114.77	198.71	-42.44	361.15
	23.09	152.76	68.33	116.70	-22.15	212.10
	11.87	61.93	28.96	47.31	-5.22	85.99
	-12.39	2.51	-9.46	-3.35	-17.20	8.38
	-70.19	-4.98	-53.62	-28.58	-97.45	18.62
	-111.47	-10.61	-85.16	-46.74	-154.78	25.52
	-136.24	-14.38	-104.09	-57.84	-189.17	29.07
	-144.50	-16.29	-110.40	-61.86	-200.64	29.28
	-144.50	-16.29	-110.40	-61.86	-200.64	29.28
	-136.24	-16.34	-104.09	-58.81	-189.17	26.14
	-111.47	-14.52	-85.16	-48.70	-154.78	19.65
	-70.19	-10.85	-53.62	-31.51	-97.45	9.82
	-12.39	-5.31	-9.46	-7.26	-17.20	-3.36
	2.09	61.93	24.07	47.31	-19.88	85.99
	11.36	152.76	62.46	116.70	-39.75	212.10
	22.48	260.10	107.93	198.71	-62.97	361.15
2.05	35.80	254.10	112.40	194.21	-40.81	352.81
	22.87	149.24	66.94	114.06	-21.20	207.20
	11.78	60.50	28.39	46.24	-4.83	84.00

	-12.10	2.53	-9.25	-3.23	-16.80	8.30
	-68.57	-4.88	-52.41	-27.94	-95.20	18.18
	-108.90	-10.45	-83.23	-45.73	-151.20	24.82
	-133.10	-14.19	-101.73	-56.60	-184.80	28.22
	-141.17	-16.09	-107.90	-60.54	-196.00	28.37
	-141.17	-16.09	-107.90	-60.54	-196.00	28.37
	-133.10	-16.14	-101.73	-57.57	-184.80	25.28
	-108.90	-14.36	-83.23	-47.68	-151.20	18.95
	-68.57	-10.75	-52.41	-30.87	-95.20	9.38
	-12.10	-5.29	-9.25	-7.14	-16.80	-3.43
	2.01	60.50	23.50	46.24	-19.49	84.00
	11.14	149.24	61.07	114.06	-38.79	207.20
	22.11	254.10	105.56	194.21	-61.34	352.81
2.10	35.45	248.39	110.15	189.93	-39.25	344.86
	22.66	145.88	65.61	111.54	-20.28	202.54
	11.70	59.14	27.85	45.22	-4.46	82.11
	-11.83	2.55	-9.04	-3.13	-16.42	8.22
	-67.03	-4.79	-51.25	-27.33	-93.06	17.76
	-106.45	-10.30	-81.40	-44.76	-147.80	24.15
	-130.11	-14.01	-99.49	-55.41	-180.64	27.40
	-138.00	-15.89	-105.52	-59.29	-191.59	27.51
	-138.00	-15.89	-105.52	-59.29	-191.59	27.51
	-130.11	-15.96	-99.49	-56.39	-180.64	24.47
	-106.45	-14.21	-81.40	-46.72	-147.80	18.29
	-67.03	-10.65	-51.25	-30.26	-93.06	8.96
	-11.83	-5.27	-9.04	-7.04	-16.42	-3.51
	1.92	59.14	22.97	45.22	-19.12	82.11
	10.93	145.88	59.75	111.54	-37.88	202.54
	21.76	248.39	103.30	189.93	-59.78	344.86
2.15	35.12	242.95	108.00	185.84	-37.77	337.29
	22.47	142.68	64.35	109.15	-19.41	198.09
	11.62	57.85	27.34	44.25	-4.10	80.31
	-11.57	2.56	-8.85	-3.02	-16.06	8.15
	-65.56	-4.70	-50.15	-26.75	-91.02	17.36
	-104.12	-10.16	-79.65	-43.84	-144.55	23.52
	-127.26	-13.83	-97.35	-54.29	-176.68	26.63
	-134.97	-15.71	-103.25	-58.10	-187.38	26.68
	-134.97	-15.71	-103.25	-58.10	-187.38	26.68
	-127.26	-15.79	-97.35	-55.27	-176.68	23.69
	-104.12	-14.07	-79.65	-45.80	-144.55	17.65
	-65.56	-10.56	-50.15	-29.69	-91.02	8.56
	-11.57	-5.26	-8.85	-6.93	-16.06	-3.58
	1.84	57.85	22.45	44.25	-18.77	80.31
	10.74	142.68	58.48	109.15	-37.01	198.09
	21.43	242.95	101.15	185.84	-58.30	337.29

2.20	34.80	237.75	105.95	181.95	-36.35	330.07
	22.28	139.63	63.15	106.86	-18.58	193.85
	11.54	56.61	26.85	43.32	-3.77	78.59
	-11.32	2.58	-8.66	-2.93	-15.72	8.09
	-64.16	-4.61	-49.10	-26.20	-89.07	16.98
	-101.89	-10.03	-77.98	-42.96	-141.46	22.91
	-124.54	-13.67	-95.31	-53.21	-172.89	25.88
	-132.09	-15.53	-101.08	-56.96	-183.37	25.90
	-132.09	-15.53	-101.08	-56.96	-183.37	25.90
	-124.54	-15.62	-95.31	-54.19	-172.89	22.95
	-101.89	-13.94	-77.98	-44.92	-141.46	17.04
	-64.16	-10.48	-49.10	-29.13	-89.07	8.18
	-11.32	-5.24	-8.66	-6.84	-15.72	-3.65
	1.77	56.61	21.97	43.32	-18.43	78.59
	10.55	139.63	57.28	106.86	-36.17	193.85
	21.11	237.75	99.10	181.95	-56.88	330.07
2.25	34.59	232.89	104.08	178.32	-34.90	323.29
	22.16	136.77	62.05	104.73	-17.73	189.87
	11.49	55.45	26.41	42.46	-3.42	76.97
	-11.09	2.59	-8.49	-2.84	-15.39	8.02
	-62.84	-4.56	-48.12	-25.70	-87.24	16.59
	-99.81	-9.94	-76.42	-42.16	-138.55	22.29
	-121.99	-13.56	-93.40	-52.24	-169.34	25.12
	-129.38	-15.42	-99.07	-55.92	-179.61	25.09
	-129.38	-15.42	-99.07	-55.92	-179.61	25.09
	-121.99	-15.51	-93.40	-53.22	-169.34	22.19
	-99.81	-13.85	-76.42	-44.12	-138.55	16.42
	-62.84	-10.42	-48.12	-28.63	-87.24	7.79
	-11.09	-5.23	-8.49	-6.75	-15.39	-3.71
	1.72	55.45	21.52	42.46	-18.08	76.97
	10.43	136.77	56.19	104.73	-35.32	189.87
	20.91	232.89	97.24	178.32	-55.43	323.29
2.30	34.31	228.14	102.21	174.76	-33.60	316.69
	21.99	133.99	60.95	102.64	-16.96	185.99
	11.43	54.32	25.97	41.61	-3.11	75.40
	-10.86	2.60	-8.32	-2.75	-15.08	7.95
	-61.56	-4.48	-47.16	-25.19	-85.46	16.24
	-97.77	-9.81	-74.90	-41.36	-135.72	21.73
	-119.50	-13.41	-91.54	-51.26	-165.89	24.44
	-126.74	-15.26	-97.09	-54.88	-175.94	24.37
	-126.74	-15.26	-97.09	-54.88	-175.94	24.37
	-119.50	-15.36	-91.54	-52.24	-165.89	21.51
	-97.77	-13.72	-74.90	-43.32	-135.72	15.87
	-61.56	-10.34	-47.16	-28.12	-85.46	7.44
-10.86	-5.22	-8.32	-6.66	-15.08	-3.78	

	1.65	54.32	21.08	41.61	-17.78	75.40
	10.26	133.99	55.09	102.64	-34.56	185.99
	20.62	228.14	95.37	174.76	-54.13	316.69
2.35	34.03	223.60	100.42	171.35	-32.36	310.37
	21.83	131.32	59.90	100.63	-16.23	182.28
	11.36	53.24	25.54	40.80	-2.82	73.90
	-10.65	2.62	-8.16	-2.66	-14.78	7.90
	-60.34	-4.40	-46.24	-24.71	-83.75	15.90
	-95.83	-9.70	-73.44	-40.59	-133.02	21.20
	-117.12	-13.26	-89.75	-50.32	-162.58	23.79
	-124.22	-15.11	-95.19	-53.89	-172.43	23.68
	-124.22	-15.11	-95.19	-53.89	-172.43	23.68
	-117.12	-15.22	-89.75	-51.30	-162.58	20.86
	-95.83	-13.61	-73.44	-42.55	-133.02	15.33
	-60.34	-10.27	-46.24	-27.64	-83.75	7.10
	-10.65	-5.21	-8.16	-6.57	-14.78	-3.84
	1.59	53.24	20.65	40.80	-17.48	73.90
	10.10	131.32	54.03	100.63	-33.83	182.28
	20.35	223.60	93.58	171.35	-52.88	310.37
2.40	33.77	219.24	98.70	168.09	-31.16	304.32
	21.68	128.76	58.89	98.72	-15.53	178.73
	11.30	52.20	25.13	40.02	-2.53	72.46
	-10.44	2.63	-8.00	-2.58	-14.49	7.84
	-59.16	-4.33	-45.36	-24.24	-82.12	15.58
	-93.96	-9.59	-72.04	-39.86	-130.42	20.69
	-114.84	-13.13	-88.05	-49.42	-159.41	23.17
	-121.80	-14.96	-93.38	-52.93	-169.07	23.01
	-121.80	-14.96	-93.38	-52.93	-169.07	23.01
	-114.84	-15.08	-88.05	-50.40	-159.41	20.23
	-93.96	-13.50	-72.04	-41.81	-130.42	14.82
	-59.16	-10.20	-45.36	-27.18	-82.12	6.78
	-10.44	-5.19	-8.00	-6.49	-14.49	-3.89
	1.52	52.20	20.24	40.02	-17.20	72.46
	9.95	128.76	53.03	98.72	-33.13	178.73
	20.09	219.24	91.86	168.09	-51.69	304.32
2.45	33.52	215.07	97.06	164.96	-30.02	298.51
	21.53	126.31	57.93	96.88	-14.86	175.32
	11.24	51.21	24.74	39.28	-2.26	71.07
	-10.24	2.64	-7.86	-2.50	-14.21	7.78
	-58.03	-4.27	-44.51	-23.80	-80.55	15.27
	-92.17	-9.48	-70.70	-39.15	-127.93	20.20
	-112.66	-13.00	-86.41	-48.56	-156.36	22.57
	-119.48	-14.82	-91.64	-52.02	-165.84	22.38
	-119.48	-14.82	-91.64	-52.02	-165.84	22.38
	-112.66	-14.95	-86.41	-49.54	-156.36	19.63

	-92.17	-13.39	-70.70	-41.11	-127.93	14.33
	-58.03	-10.13	-44.51	-26.73	-80.55	6.47
	-10.24	-5.18	-7.86	-6.41	-14.21	-3.95
	1.46	51.21	19.85	39.28	-16.92	71.07
	9.80	126.31	52.06	96.88	-32.46	175.32
	19.84	215.07	90.22	164.96	-50.55	298.51
2.50	33.28	211.06	95.48	161.95	-28.91	292.94
	21.39	123.96	57.00	95.11	-14.21	172.05
	11.18	50.25	24.36	38.56	-2.00	69.75
	-10.05	2.65	-7.71	-2.43	-13.95	7.73
	-56.95	-4.20	-43.70	-23.38	-79.05	14.97
	-90.46	-9.38	-69.41	-38.48	-125.55	19.72
	-110.56	-12.87	-84.83	-47.73	-153.45	21.99
	-117.26	-14.69	-89.97	-51.15	-162.75	21.77
	-117.26	-14.69	-89.97	-51.15	-162.75	21.77
	-110.56	-14.83	-84.83	-48.71	-153.45	19.06
	-90.46	-13.29	-69.41	-40.43	-125.55	13.86
	-56.95	-10.07	-43.70	-26.31	-79.05	6.17
	-10.05	-5.17	-7.71	-6.34	-13.95	-4.00
	1.41	50.25	19.48	38.56	-16.66	69.75
	9.66	123.96	51.14	95.11	-31.81	172.05
19.60	211.06	88.64	161.95	-49.44	292.94	
2.55	33.06	207.22	93.97	159.07	-27.86	287.59
	21.26	121.70	56.11	93.42	-13.59	168.90
	11.13	49.34	24.00	37.87	-1.74	68.47
	-9.87	2.66	-7.57	-2.36	-13.69	7.68
	-55.92	-4.14	-42.92	-22.97	-77.60	14.69
	-88.81	-9.28	-68.17	-37.83	-123.25	19.27
	-108.54	-12.75	-83.32	-46.94	-150.64	21.43
	-115.12	-14.56	-88.37	-50.30	-159.77	21.18
	-115.12	-14.56	-88.37	-50.30	-159.77	21.18
	-108.54	-14.71	-83.32	-47.92	-150.64	18.50
	-88.81	-13.19	-68.17	-39.78	-123.25	13.40
	-55.92	-10.01	-42.92	-25.90	-77.60	5.89
	-9.87	-5.16	-7.57	-6.27	-13.69	-4.05
	1.35	49.34	19.11	37.87	-16.41	68.47
	9.53	121.70	50.25	93.42	-31.19	168.90
19.37	207.22	87.13	159.07	-48.39	287.59	
2.60	32.84	203.52	92.51	156.29	-26.84	282.45
	21.13	119.53	55.26	91.79	-12.99	165.88
	11.08	48.46	23.66	37.21	-1.50	67.25
	-9.69	2.67	-7.44	-2.29	-13.45	7.63
	-54.92	-4.08	-42.17	-22.57	-76.22	14.41
	-87.22	-9.19	-66.98	-37.20	-121.05	18.83
	-106.60	-12.64	-81.87	-46.18	-147.95	20.90

	-113.06	-14.44	-86.83	-49.50	-156.91	20.61
	-113.06	-14.44	-86.83	-49.50	-156.91	20.61
	-106.60	-14.59	-81.87	-47.16	-147.95	17.97
	-87.22	-13.10	-66.98	-39.16	-121.05	12.97
	-54.92	-9.95	-42.17	-25.51	-76.22	5.61
	-9.69	-5.15	-7.44	-6.20	-13.45	-4.10
	1.30	48.46	18.77	37.21	-16.17	67.25
	9.40	119.53	49.39	91.79	-30.59	165.88
	19.15	203.52	85.67	156.29	-47.37	282.45
2.65	32.63	199.96	91.11	153.63	-25.86	277.50
	21.01	117.44	54.43	90.23	-12.42	162.97
	11.03	47.61	23.32	36.58	-1.27	66.07
	-9.52	2.68	-7.32	-2.22	-13.21	7.59
	-53.96	-4.03	-41.45	-22.20	-74.88	14.15
	-85.70	-9.10	-65.84	-36.60	-118.93	18.41
	-104.74	-12.53	-80.47	-45.45	-145.36	20.39
	-111.09	-14.33	-85.35	-48.72	-154.17	20.07
	-111.09	-14.33	-85.35	-48.72	-154.17	20.07
	-104.74	-14.48	-80.47	-46.42	-145.36	17.45
	-85.70	-13.01	-65.84	-38.56	-118.93	12.55
	-53.96	-9.89	-41.45	-25.13	-74.88	5.35
	-9.52	-5.14	-7.32	-6.13	-13.21	-4.15
	1.25	47.61	18.44	36.58	-15.93	66.07
	9.28	117.44	48.57	90.23	-30.01	162.97
	18.94	199.96	84.27	153.63	-46.38	277.50
2.70	32.43	196.53	89.77	151.06	-24.91	272.73
	20.89	115.42	53.64	88.72	-11.86	160.18
	10.98	46.79	23.00	35.97	-1.04	64.94
	-9.36	2.69	-7.19	-2.16	-12.99	7.54
	-53.03	-3.97	-40.76	-21.83	-73.59	13.89
	-84.23	-9.01	-64.74	-36.03	-116.89	18.01
	-102.95	-12.42	-79.13	-44.74	-142.86	19.89
	-109.18	-14.21	-83.92	-47.97	-151.52	19.54
	-109.18	-14.21	-83.92	-47.97	-151.52	19.54
	-102.95	-14.38	-79.13	-45.72	-142.86	16.96
	-84.23	-12.92	-64.74	-37.98	-116.89	12.14
	-53.03	-9.84	-40.76	-24.77	-73.59	5.09
	-9.36	-5.13	-7.19	-6.07	-12.99	-4.19
	1.20	46.79	18.11	35.97	-15.71	64.94
	9.16	115.42	47.78	88.72	-29.46	160.18
	18.74	196.53	82.92	151.06	-45.44	272.73
2.75	33.20	194.19	89.43	149.55	-23.04	269.44
	21.34	114.05	53.45	87.83	-10.76	158.24
	11.16	46.24	22.92	35.61	-0.60	64.15
	-9.25	2.66	-7.12	-2.14	-12.83	7.45

	-52.40	-4.18	-40.35	-21.74	-72.71	13.39
	-83.23	-9.34	-64.09	-35.88	-115.47	17.20
	-101.72	-12.83	-78.33	-44.56	-141.13	18.91
	-107.88	-14.64	-83.08	-47.78	-149.69	18.50
	-107.88	-14.64	-83.08	-47.78	-149.69	18.50
	-101.72	-14.78	-78.33	-45.54	-141.13	15.98
	-83.23	-13.25	-64.09	-37.84	-115.47	11.34
	-52.40	-10.04	-40.35	-24.68	-72.71	4.59
	-9.25	-5.17	-7.12	-6.05	-12.83	-4.28
	1.39	46.24	18.03	35.61	-15.26	64.15
	9.61	114.05	47.58	87.83	-28.36	158.24
	19.51	194.19	82.59	149.55	-43.57	269.44
	33.01	191.01	88.18	147.16	-22.16	265.01
	21.23	112.18	52.71	86.43	-10.25	155.64
	11.12	45.48	22.62	35.04	-0.39	63.10
	-9.10	2.66	-7.01	-2.08	-12.62	7.41
	-51.54	-4.13	-39.71	-21.40	-71.51	13.15
	-81.86	-9.26	-63.07	-35.35	-113.57	16.83
	-100.05	-12.73	-77.08	-43.91	-138.81	18.45
	-106.11	-14.54	-81.75	-47.09	-147.23	18.01
	-106.11	-14.54	-81.75	-47.09	-147.23	18.01
	-100.05	-14.68	-77.08	-44.88	-138.81	15.52
	-81.86	-13.17	-63.07	-37.30	-113.57	10.96
	-51.54	-9.99	-39.71	-24.34	-71.51	4.35
	-9.10	-5.16	-7.01	-5.99	-12.62	-4.32
	1.34	45.48	17.74	35.04	-15.05	63.10
	9.50	112.18	46.84	86.43	-27.84	155.64
	19.32	191.01	81.33	147.16	-42.69	265.01
2.80	32.82	187.93	86.96	144.85	-21.32	260.73
	21.12	110.37	52.00	85.07	-9.75	153.13
	11.07	44.75	22.34	34.49	-0.19	62.08
	-8.95	2.67	-6.90	-2.02	-12.42	7.37
	-50.71	-4.08	-39.09	-21.08	-70.36	12.92
	-80.54	-9.18	-62.08	-34.83	-111.74	16.47
	-98.44	-12.63	-75.87	-43.27	-136.57	18.01
	-104.41	-14.43	-80.47	-46.41	-144.85	17.54
	-104.41	-14.43	-80.47	-46.41	-144.85	17.54
	-98.44	-14.59	-75.87	-44.25	-136.57	15.08
	-80.54	-13.09	-62.08	-36.78	-111.74	10.60
	-50.71	-9.94	-39.09	-24.01	-70.36	4.12
	-8.95	-5.15	-6.90	-5.93	-12.42	-4.36
	1.30	44.75	17.45	34.49	-14.85	62.08
	9.39	110.37	46.13	85.07	-27.35	153.13
	19.14	187.93	80.12	144.85	-41.85	260.73
2.85	32.65	184.96	85.80	142.63	-20.50	256.60
2.90						

	21.02	108.63	51.31	83.76	-9.27	150.70
	11.03	44.04	22.06	33.96	0.01	61.10
	-8.81	2.68	-6.79	-1.97	-12.22	7.33
	-49.91	-4.03	-38.49	-20.76	-69.24	12.70
	-79.27	-9.10	-61.13	-34.33	-109.97	16.12
	-96.89	-12.54	-74.71	-42.66	-134.41	17.58
	-102.76	-14.34	-79.24	-45.76	-142.56	17.09
	-102.76	-14.34	-79.24	-45.76	-142.56	17.09
	-96.89	-14.49	-74.71	-43.64	-134.41	14.65
	-79.27	-13.01	-61.13	-36.28	-109.97	10.25
	-49.91	-9.90	-38.49	-23.69	-69.24	3.90
	-8.81	-5.14	-6.79	-5.88	-12.22	-4.40
	1.26	44.04	17.17	33.96	-14.66	61.10
	9.29	108.63	45.45	83.76	-26.87	150.70
	18.96	184.96	78.95	142.63	-41.03	256.60
2.95	32.48	182.10	84.67	140.48	-19.71	252.62
	20.92	106.95	50.65	82.50	-8.81	148.36
	10.99	43.36	21.79	33.45	0.20	60.15
	-8.67	2.69	-6.69	-1.91	-12.03	7.29
	-49.14	-3.99	-37.91	-20.46	-68.17	12.49
	-78.04	-9.03	-60.20	-33.84	-108.26	15.78
	-95.38	-12.45	-73.58	-42.07	-132.32	17.17
	-101.16	-14.24	-78.04	-45.14	-140.34	16.65
	-101.16	-14.24	-78.04	-45.14	-140.34	16.65
	-95.38	-14.41	-73.58	-43.05	-132.32	14.23
	-78.04	-12.94	-60.20	-35.80	-108.26	9.91
	-49.14	-9.85	-37.91	-23.39	-68.17	3.69
	-8.67	-5.13	-6.69	-5.82	-12.03	-4.44
	1.22	43.36	16.90	33.45	-14.47	60.15
	9.19	106.95	44.78	82.50	-26.40	148.36
	18.79	182.10	77.83	140.48	-40.24	252.62
3.00	33.25	180.26	84.52	139.34	-18.01	250.03
	21.38	105.87	50.56	81.83	-7.81	146.84
	11.18	42.92	21.75	33.18	0.60	59.53
	-8.58	2.65	-6.64	-1.91	-11.91	7.21
	-48.64	-4.19	-37.60	-20.42	-67.47	12.03
	-77.26	-9.36	-59.72	-33.78	-107.15	15.05
	-94.42	-12.86	-72.99	-41.99	-130.97	16.28
	-100.15	-14.67	-77.41	-45.05	-138.90	15.71
	-100.15	-14.67	-77.41	-45.05	-138.90	15.71
	-94.42	-14.81	-72.99	-42.97	-130.97	13.34
	-77.26	-13.27	-59.72	-35.73	-107.15	9.18
	-48.64	-10.06	-37.60	-23.35	-67.47	3.23
	-8.58	-5.17	-6.64	-5.82	-11.91	-4.52
	1.40	42.92	16.86	33.18	-14.06	59.53

	9.65	105.87	44.69	81.83	-25.40	146.84
	19.57	180.26	77.67	139.34	-38.54	250.03
3.05	33.09	177.58	83.46	137.32	-17.27	246.30
	21.28	104.29	49.94	80.65	-7.37	144.65
	11.14	42.28	21.50	32.70	0.78	58.64
	-8.46	2.66	-6.54	-1.86	-11.73	7.18
	-47.92	-4.15	-37.06	-20.13	-66.46	11.83
	-76.11	-9.29	-58.85	-33.32	-105.56	14.73
	-93.02	-12.77	-71.93	-41.44	-129.01	15.89
	-98.66	-14.58	-76.29	-44.47	-136.83	15.30
	-98.66	-14.58	-76.29	-44.47	-136.83	15.30
	-93.02	-14.73	-71.93	-42.41	-129.01	12.96
	-76.11	-13.21	-58.85	-35.28	-105.56	8.87
	-47.92	-10.02	-37.06	-23.06	-66.46	3.03
	-8.46	-5.16	-6.54	-5.77	-11.73	-4.55
	1.36	42.28	16.61	32.70	-13.89	58.64
	9.55	104.29	44.07	80.65	-24.97	144.65
	19.41	177.58	76.62	137.32	-37.80	246.30
3.10	32.94	174.98	82.44	135.38	-16.56	242.69
	21.19	102.77	49.34	79.51	-6.96	142.53
	11.10	41.66	21.26	32.23	0.95	57.78
	-8.33	2.67	-6.45	-1.81	-11.56	7.14
	-47.22	-4.11	-36.53	-19.85	-65.49	11.64
	-74.99	-9.23	-58.02	-32.89	-104.01	14.43
	-91.66	-12.69	-70.91	-40.90	-127.12	15.52
	-97.21	-14.50	-75.21	-43.90	-134.83	14.90
	-97.21	-14.50	-75.21	-43.90	-134.83	14.90
	-91.66	-14.65	-70.91	-41.88	-127.12	12.58
	-74.99	-13.14	-58.02	-34.84	-104.01	8.56
	-47.22	-9.97	-36.53	-22.79	-65.49	2.84
	-8.33	-5.15	-6.45	-5.72	-11.56	-4.59
	1.33	41.66	16.37	32.23	-13.72	57.78
	9.46	102.77	43.47	79.51	-24.55	142.53
	19.25	174.98	75.59	135.38	-37.09	242.69
3.15	32.79	172.47	81.45	133.49	-15.87	239.19
	21.10	101.29	48.76	78.40	-6.55	140.48
	11.07	41.06	21.02	31.78	1.11	56.95
	-8.21	2.67	-6.36	-1.76	-11.39	7.11
	-46.54	-4.07	-36.02	-19.59	-64.54	11.45
	-73.92	-9.16	-57.21	-32.46	-102.51	14.13
	-90.34	-12.61	-69.93	-40.38	-125.29	15.16
	-95.82	-14.41	-74.16	-43.35	-132.88	14.52
	-95.82	-14.41	-74.16	-43.35	-132.88	14.52
	-90.34	-14.57	-69.93	-41.36	-125.29	12.22
	-73.92	-13.07	-57.21	-34.42	-102.51	8.27

	-46.54	-9.93	-36.02	-22.52	-64.54	2.65
	-8.21	-5.15	-6.36	-5.67	-11.39	-4.62
	1.29	41.06	16.13	31.78	-13.55	56.95
	9.37	101.29	42.89	78.40	-24.15	140.48
	19.10	172.47	74.60	133.49	-36.40	239.19
3.20	32.64	170.04	80.49	131.67	-15.20	235.81
	21.02	99.86	48.19	77.33	-6.16	138.49
	11.03	40.49	20.79	31.35	1.27	56.14
	-8.10	2.68	-6.27	-1.71	-11.23	7.08
	-45.88	-4.03	-35.53	-19.33	-63.63	11.27
	-72.87	-9.10	-56.43	-32.05	-101.06	13.85
	-89.07	-12.54	-68.97	-39.88	-123.52	14.81
	-94.47	-14.33	-73.15	-42.81	-131.00	14.15
	-94.47	-14.33	-73.15	-42.81	-131.00	14.15
	-89.07	-14.49	-68.97	-40.86	-123.52	11.87
	-72.87	-13.01	-56.43	-34.01	-101.06	7.98
	-45.88	-9.89	-35.53	-22.26	-63.63	2.47
	-8.10	-5.14	-6.27	-5.63	-11.23	-4.65
	1.26	40.49	15.91	31.35	-13.40	56.14
	9.29	99.86	42.33	77.33	-23.75	138.49
	18.96	170.04	73.65	131.67	-35.73	235.81
3.25	32.59	167.76	79.64	129.98	-14.47	232.64
	20.99	98.53	47.70	76.34	-5.73	136.63
	11.02	39.94	20.59	30.95	1.44	55.39
	-7.99	2.68	-6.19	-1.67	-11.08	7.04
	-45.27	-4.01	-35.08	-19.10	-62.78	11.07
	-71.90	-9.08	-55.71	-31.69	-99.70	13.53
	-87.88	-12.51	-68.09	-39.44	-121.86	14.42
	-93.20	-14.30	-72.21	-42.35	-129.24	13.74
	-93.20	-14.30	-72.21	-42.35	-129.24	13.74
	-87.88	-14.46	-68.09	-40.41	-121.86	11.49
	-71.90	-12.99	-55.71	-33.64	-99.70	7.67
	-45.27	-9.88	-35.08	-22.03	-62.78	2.27
	-7.99	-5.14	-6.19	-5.58	-11.08	-4.69
	1.24	39.94	15.70	30.95	-13.22	55.39
	9.25	98.53	41.83	76.34	-23.32	136.63
	18.90	167.76	72.80	129.98	-35.00	232.64
3.30	32.45	165.48	78.74	128.27	-13.84	229.46
	20.91	97.18	47.17	75.33	-5.36	134.76
	10.99	39.40	20.38	30.54	1.59	54.63
	-7.88	2.69	-6.11	-1.63	-10.93	7.01
	-44.65	-3.98	-34.61	-18.86	-61.92	10.90
	-70.92	-9.02	-54.97	-31.30	-98.34	13.26
	-86.68	-12.44	-67.19	-38.97	-120.19	14.09
	-91.93	-14.23	-71.26	-41.85	-127.48	13.39

	-91.93	-14.23	-71.26	-41.85	-127.48	13.39
	-86.68	-14.39	-67.19	-39.94	-120.19	11.16
	-70.92	-12.93	-54.97	-33.26	-98.34	7.40
	-44.65	-9.84	-34.61	-21.79	-61.92	2.10
	-7.88	-5.13	-6.11	-5.54	-10.93	-4.72
	1.21	39.40	15.49	30.54	-13.07	54.63
	9.18	97.18	41.30	75.33	-22.95	134.76
	18.77	165.48	71.90	128.27	-34.37	229.46
3.35	32.32	163.26	77.87	126.61	-13.23	226.37
	20.83	95.88	46.66	74.36	-5.00	132.95
	10.95	38.87	20.17	30.14	1.74	53.90
	-7.77	2.70	-6.03	-1.59	-10.78	6.98
	-44.05	-3.94	-34.16	-18.62	-61.08	10.74
	-69.97	-8.96	-54.26	-30.93	-97.02	13.00
	-85.52	-12.37	-66.32	-38.51	-118.58	13.77
	-90.70	-14.16	-70.34	-41.36	-125.76	13.05
	-90.70	-14.16	-70.34	-41.36	-125.76	13.05
	-85.52	-14.32	-66.32	-39.49	-118.58	10.84
	-69.97	-12.87	-54.26	-32.88	-97.02	7.13
	-44.05	-9.81	-34.16	-21.56	-61.08	1.94
	-7.77	-5.12	-6.03	-5.50	-10.78	-4.75
	1.18	38.87	15.28	30.14	-12.93	53.90
	9.10	95.88	40.79	74.36	-22.59	132.95
	18.64	163.26	71.03	126.61	-33.76	226.37
3.40	32.20	161.11	77.03	124.99	-12.63	223.38
	20.76	94.62	46.16	73.41	-4.65	131.19
	10.92	38.36	19.97	29.76	1.88	53.19
	-7.67	2.70	-5.95	-1.55	-10.64	6.96
	-43.47	-3.91	-33.73	-18.39	-60.28	10.58
	-69.05	-8.91	-53.57	-30.57	-95.73	12.75
	-84.39	-12.30	-65.47	-38.07	-117.01	13.46
	-89.50	-14.09	-69.44	-40.89	-124.10	12.72
	-89.50	-14.09	-69.44	-40.89	-124.10	12.72
	-84.39	-14.26	-65.47	-39.04	-117.01	10.53
	-69.05	-12.82	-53.57	-32.52	-95.73	6.88
	-43.47	-9.77	-33.73	-21.33	-60.28	1.78
	-7.67	-5.12	-5.95	-5.46	-10.64	-4.78
	1.15	38.36	15.08	29.76	-12.78	53.19
	9.02	94.62	40.29	73.41	-22.25	131.19
	18.51	161.11	70.18	124.99	-33.16	223.38
3.45	32.07	159.02	76.20	123.43	-12.06	220.47
	20.68	93.39	45.68	72.49	-4.31	129.48
	10.90	37.86	19.77	29.39	2.02	52.49
	-7.57	2.71	-5.88	-1.51	-10.50	6.93
	-42.91	-3.88	-33.31	-18.17	-59.49	10.42

	-68.15	-8.86	-52.90	-30.21	-94.49	12.50
	-83.29	-12.24	-64.65	-37.64	-115.49	13.16
	-88.34	-14.02	-68.57	-40.43	-122.49	12.40
	-88.34	-14.02	-68.57	-40.43	-122.49	12.40
	-83.29	-14.19	-64.65	-38.61	-115.49	10.23
	-68.15	-12.77	-52.90	-32.17	-94.49	6.63
	-42.91	-9.74	-33.31	-21.11	-59.49	1.62
	-7.57	-5.11	-5.88	-5.42	-10.50	-4.80
	1.12	37.86	14.89	29.39	-12.65	52.49
	8.95	93.39	39.81	72.49	-21.91	129.48
	18.39	159.02	69.36	123.43	-32.58	220.47
	31.96	156.99	75.41	121.91	-11.49	217.65
	20.61	92.20	45.21	71.60	-3.98	127.83
	10.87	37.38	19.58	29.03	2.15	51.82
	-7.48	2.71	-5.81	-1.47	-10.36	6.90
	-42.36	-3.84	-32.90	-17.96	-58.73	10.27
	-67.28	-8.81	-52.25	-29.87	-93.28	12.26
	-82.23	-12.18	-63.86	-37.22	-114.01	12.86
	-87.21	-13.95	-67.73	-39.99	-120.92	12.09
	-87.21	-13.95	-67.73	-39.99	-120.92	12.09
	-82.23	-14.13	-63.86	-38.20	-114.01	9.93
	-67.28	-12.72	-52.25	-31.83	-93.28	6.39
	-42.36	-9.71	-32.90	-20.89	-58.73	1.47
	-7.48	-5.11	-5.81	-5.38	-10.36	-4.83
	1.09	37.38	14.70	29.03	-12.51	51.82
	8.88	92.20	39.34	71.60	-21.58	127.83
	18.27	156.99	68.56	121.91	-32.02	217.65
	31.84	155.01	74.63	120.43	-10.95	214.91
	20.55	91.04	44.75	70.73	-3.66	126.22
	10.84	36.91	19.40	28.67	2.28	51.17
	-7.38	2.72	-5.73	-1.44	-10.23	6.88
	-41.83	-3.81	-32.50	-17.75	-57.99	10.12
	-66.43	-8.76	-51.61	-29.54	-92.10	12.02
	-81.20	-12.12	-63.08	-36.81	-112.57	12.58
	-86.12	-13.89	-66.91	-39.56	-119.39	11.79
	-86.12	-13.89	-66.91	-39.56	-119.39	11.79
	-81.20	-14.07	-63.08	-37.79	-112.57	9.65
	-66.43	-12.67	-51.61	-31.50	-92.10	6.16
	-41.83	-9.68	-32.50	-20.68	-57.99	1.32
	-7.38	-5.10	-5.73	-5.35	-10.23	-4.86
	1.06	36.91	14.51	28.67	-12.38	51.17
	8.82	91.04	38.89	70.73	-21.26	126.22
	18.16	155.01	67.79	120.43	-31.48	214.91
	31.73	153.10	73.88	118.99	-10.42	212.24
	20.48	89.91	44.31	69.88	-3.35	124.65

	10.81	36.45	19.22	28.33	2.41	50.53
	-7.29	2.73	-5.67	-1.40	-10.11	6.85
	-41.31	-3.78	-32.11	-17.55	-57.27	9.98
	-65.61	-8.71	-51.00	-29.22	-90.96	11.80
	-80.19	-12.06	-62.33	-36.42	-111.17	12.30
	-85.05	-13.83	-66.11	-39.14	-117.91	11.49
	-85.05	-13.83	-66.11	-39.14	-117.91	11.49
	-80.19	-14.01	-62.33	-37.40	-111.17	9.37
	-65.61	-12.62	-51.00	-31.17	-90.96	5.93
	-41.31	-9.65	-32.11	-20.48	-57.27	1.18
	-7.29	-5.10	-5.67	-5.31	-10.11	-4.88
	1.04	36.45	14.33	28.33	-12.26	50.53
	8.75	89.91	38.45	69.88	-20.94	124.65
	18.04	153.10	67.04	118.99	-30.95	212.24
3.65	32.60	152.21	74.12	118.57	-8.92	210.97
	20.99	89.39	44.46	69.64	-2.47	123.90
	11.02	36.24	19.28	28.23	2.76	50.23
	-7.25	2.68	-5.65	-1.41	-10.05	6.78
	-41.07	-4.02	-32.00	-17.61	-56.93	9.58
	-65.23	-9.08	-50.82	-29.32	-90.41	11.16
	-79.73	-12.51	-62.11	-36.55	-110.51	11.52
	-84.56	-14.31	-65.87	-39.28	-117.20	10.66
	-84.56	-14.31	-65.87	-39.28	-117.20	10.66
	-79.73	-14.47	-62.11	-37.52	-110.51	8.59
	-65.23	-12.99	-50.82	-31.28	-90.41	5.29
	-41.07	-9.88	-32.00	-20.54	-56.93	0.78
	-7.25	-5.14	-5.65	-5.32	-10.05	-4.95
	1.24	36.24	14.39	28.23	-11.90	50.23
	9.26	89.39	38.59	69.64	-20.07	123.90
	18.91	152.21	67.28	118.57	-29.45	210.97
3.70	32.49	150.39	73.41	117.21	-8.42	208.44
	20.93	88.33	44.04	68.84	-2.18	122.42
	10.99	35.81	19.11	27.91	2.88	49.63
	-7.16	2.69	-5.58	-1.38	-9.93	6.76
	-40.58	-3.99	-31.63	-17.42	-56.25	9.44
	-64.45	-9.04	-50.23	-29.02	-89.33	10.94
	-78.78	-12.46	-61.40	-36.17	-109.18	11.26
	-83.55	-14.25	-65.12	-38.88	-115.80	10.38
	-83.55	-14.25	-65.12	-38.88	-115.80	10.38
	-78.78	-14.41	-61.40	-37.15	-109.18	8.32
	-64.45	-12.95	-50.23	-30.97	-89.33	5.08
	-40.58	-9.85	-31.63	-20.35	-56.25	0.64
	-7.16	-5.13	-5.58	-5.29	-9.93	-4.98
	1.22	35.81	14.22	27.91	-11.78	49.63
	9.20	88.33	38.17	68.84	-19.77	122.42

	18.81	150.39	66.57	117.21	-28.95	208.44
3.75	32.39	148.63	72.71	115.89	-7.94	205.99
	20.87	87.29	43.63	68.06	-1.89	120.98
	10.97	35.39	18.94	27.59	3.00	49.04
	-7.08	2.69	-5.52	-1.34	-9.81	6.73
	-40.11	-3.96	-31.27	-17.23	-55.58	9.31
	-63.70	-8.99	-49.67	-28.72	-88.28	10.73
	-77.85	-12.40	-60.70	-35.81	-107.90	11.00
	-82.57	-14.19	-64.38	-38.50	-114.44	10.11
	-82.57	-14.19	-64.38	-38.50	-114.44	10.11
	-77.85	-14.36	-60.70	-36.78	-107.90	8.07
	-63.70	-12.90	-49.67	-30.67	-88.28	4.87
	-40.11	-9.83	-31.27	-20.16	-55.58	0.51
	-7.08	-5.13	-5.52	-5.25	-9.81	-5.00
	1.19	35.39	14.05	27.59	-11.67	49.04
	9.14	87.29	37.76	68.06	-19.49	120.98
	18.70	148.63	65.87	115.89	-28.47	205.99
3.80	32.29	146.91	72.04	114.60	-7.46	203.59
	20.81	86.28	43.23	67.30	-1.61	119.57
	10.95	34.98	18.78	27.29	3.11	48.47
	-7.00	2.70	-5.46	-1.31	-9.69	6.71
	-39.64	-3.93	-30.92	-17.05	-54.94	9.18
	-62.96	-8.95	-49.11	-28.43	-87.25	10.53
	-76.95	-12.35	-60.03	-35.45	-106.64	10.75
	-81.62	-14.14	-63.67	-38.12	-113.11	9.85
	-81.62	-14.14	-63.67	-38.12	-113.11	9.85
	-76.95	-14.31	-60.03	-36.43	-106.64	7.82
	-62.96	-12.86	-49.11	-30.38	-87.25	4.66
	-39.64	-9.80	-30.92	-19.98	-54.94	0.38
	-7.00	-5.12	-5.46	-5.22	-9.69	-5.02
	1.17	34.98	13.89	27.29	-11.55	48.47
	9.08	86.28	37.37	67.30	-19.21	119.57
	18.60	146.91	65.19	114.60	-27.99	203.59
3.85	32.19	145.23	71.38	113.34	-7.00	201.26
	20.75	85.30	42.84	66.57	-1.34	118.20
	10.92	34.58	18.62	26.99	3.22	47.92
	-6.92	2.70	-5.40	-1.28	-9.58	6.69
	-39.19	-3.91	-30.58	-16.87	-54.31	9.06
	-62.24	-8.91	-48.58	-28.15	-86.26	10.33
	-76.07	-12.30	-59.37	-35.11	-105.42	10.51
	-80.68	-14.08	-62.97	-37.75	-111.81	9.59
	-80.68	-14.08	-62.97	-37.75	-111.81	9.59
	-76.07	-14.25	-59.37	-36.09	-105.42	7.58
	-62.24	-12.82	-48.58	-30.10	-86.26	4.47
	-39.19	-9.77	-30.58	-19.80	-54.31	0.26

	-6.92	-5.12	-5.40	-5.19	-9.58	-5.04	
	1.15	34.58	13.74	26.99	-11.44	47.92	
	9.02	85.30	36.98	66.57	-18.94	118.20	
	18.50	145.23	64.54	113.34	-27.53	201.26	
3.90	33.06	144.56	71.70	113.08	-5.58	200.29	
	21.26	84.90	43.03	66.41	-0.51	117.63	
	11.13	34.42	18.70	26.92	3.56	47.69	
	-6.88	2.66	-5.38	-1.30	-9.54	6.62	
	-39.01	-4.14	-30.51	-16.96	-54.05	8.68	
	-61.96	-9.28	-48.46	-28.29	-85.84	9.72	
	-75.72	-12.75	-59.23	-35.28	-104.92	9.77	
	-80.31	-14.56	-62.82	-37.93	-111.27	8.80	
	-80.31	-14.56	-62.82	-37.93	-111.27	8.80	
	-75.72	-14.71	-59.23	-36.25	-104.92	6.84	
	-61.96	-13.19	-48.46	-30.24	-85.84	3.86	
	-39.01	-10.01	-30.51	-19.89	-54.05	-0.12	
	-6.88	-5.16	-5.38	-5.21	-9.54	-5.11	
	1.35	34.42	13.81	26.92	-11.11	47.69	
	9.53	84.90	37.17	66.41	-18.11	117.63	
	19.37	144.56	64.86	113.08	-26.11	200.29	
	3.95	32.96	142.97	71.08	111.89	-5.15	198.08
		21.21	83.97	42.67	65.71	-0.25	116.33
11.11		34.04	18.55	26.64	3.66	47.16	
-6.81		2.67	-5.33	-1.27	-9.43	6.60	
-38.58		-4.12	-30.19	-16.79	-53.45	8.56	
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-74.89		-12.71	-58.61	-34.95	-103.76	9.54	
-79.43		-14.51	-62.16	-37.59	-110.04	8.56	
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-74.89		-14.66	-58.61	-35.93	-103.76	6.61	
-61.27		-13.15	-47.95	-29.97	-84.89	3.67	
-38.58		-9.98	-30.19	-19.72	-53.45	-0.24	
-6.81		-5.15	-5.33	-5.18	-9.43	-5.13	
1.33		34.04	13.66	26.64	-11.00	47.16	
9.48		83.97	36.80	65.71	-17.85	116.33	
19.28	142.97	64.23	111.89	-25.67	198.08		
4.00	32.87	141.42	70.46	110.72	-4.72	195.92	
	21.15	83.06	42.31	65.03	0.00	115.06	
	11.09	33.67	18.41	26.36	3.76	46.65	
	-6.73	2.67	-5.27	-1.24	-9.33	6.58	
	-38.16	-4.09	-29.88	-16.62	-52.87	8.44	
	-60.61	-9.20	-47.45	-27.76	-83.97	9.35	
	-74.08	-12.66	-58.00	-34.63	-102.63	9.31	
	-78.57	-14.46	-61.51	-37.25	-108.84	8.32	
	-78.57	-14.46	-61.51	-37.25	-108.84	8.32	

	-74.08	-14.61	-58.00	-35.61	-102.63	6.38
	-60.61	-13.11	-47.45	-29.71	-83.97	3.49
	-38.16	-9.96	-29.88	-19.56	-52.87	-0.36
	-6.74	-5.15	-5.27	-5.15	-9.33	-5.15
	1.31	33.67	13.52	26.36	-10.90	46.65
	9.42	83.06	36.44	65.03	-17.60	115.06
	19.19	141.42	63.62	110.72	-25.25	195.92
4.05	32.78	139.91	69.87	109.59	-4.30	193.82
	21.10	82.17	41.96	64.36	0.24	113.83
	11.06	33.31	18.26	26.09	3.86	46.15
	-6.66	2.68	-5.22	-1.21	-9.23	6.56
	-37.75	-4.07	-29.57	-16.46	-52.30	8.33
	-59.96	-9.16	-46.97	-27.50	-83.06	9.18
	-73.28	-12.61	-57.40	-34.32	-101.52	9.10
	-77.73	-14.41	-60.88	-36.92	-107.68	8.09
	-77.73	-14.41	-60.88	-36.92	-107.68	8.09
	-73.28	-14.57	-57.40	-35.29	-101.52	6.16
	-59.96	-13.07	-46.97	-29.46	-83.06	3.31
	-37.75	-9.93	-29.57	-19.40	-52.30	-0.47
	-6.69	-5.09	-5.22	-5.09	-9.28	-5.09
	1.29	33.31	13.38	26.09	-10.80	46.15
	9.37	82.17	36.09	64.36	-17.35	113.83
	19.10	139.91	63.03	109.59	-24.83	193.82
4.10	32.78	138.51	69.37	108.56	-3.81	191.87
	21.10	81.35	41.66	63.76	0.53	112.69
	11.06	32.98	18.15	25.85	3.98	45.68
	-6.60	2.68	-5.17	-1.19	-9.14	6.54
	-37.38	-4.07	-29.29	-16.33	-51.77	8.20
	-59.36	-9.16	-46.53	-27.29	-82.23	8.97
	-72.55	-12.61	-56.87	-34.05	-100.50	8.84
	-76.95	-14.41	-60.31	-36.64	-106.59	7.82
	-76.95	-14.41	-60.31	-36.64	-106.59	7.82
	-72.55	-14.56	-56.87	-35.03	-100.50	5.91
	-59.36	-13.07	-46.53	-29.24	-82.23	3.10
	-37.38	-9.93	-29.29	-19.26	-51.77	-0.60
	-6.66	-5.05	-5.17	-5.05	-9.23	-5.05
	1.29	32.98	13.26	25.85	-10.68	45.68
	9.37	81.35	35.80	63.76	-17.07	112.69
	19.09	138.51	62.53	108.56	-24.34	191.87
4.15	32.69	137.07	68.80	107.48	-3.42	189.87
	21.05	80.50	41.33	63.13	0.76	111.51
	11.04	32.64	18.01	25.59	4.07	45.21
	-6.53	2.68	-5.12	-1.16	-9.04	6.52
	-36.99	-4.04	-29.00	-16.18	-51.23	8.09
	-58.74	-9.12	-46.06	-27.04	-81.37	8.80

	-71.80	-12.56	-56.30	-33.76	-99.45	8.63
	-76.15	-14.36	-59.71	-36.32	-105.48	7.60
	-76.15	-14.36	-59.71	-36.32	-105.48	7.60
	-71.80	-14.52	-56.30	-34.74	-99.45	5.70
	-58.74	-13.03	-46.06	-29.00	-81.37	2.93
	-36.99	-9.91	-29.00	-19.11	-51.23	-0.71
	-6.61	-5.00	-5.12	-5.00	-9.17	-5.00
	1.27	32.64	13.12	25.59	-10.59	45.21
	9.32	80.50	35.47	63.13	-16.83	111.51
	19.01	137.07	61.96	107.48	-23.95	189.87
4.20	32.61	135.66	68.25	106.43	-3.03	187.91
	21.00	79.67	41.01	62.51	0.99	110.36
	11.02	32.30	17.88	25.34	4.17	44.74
	-6.46	2.68	-5.07	-1.13	-8.95	6.50
	-36.61	-4.02	-28.72	-16.03	-50.71	7.99
	-58.14	-9.09	-45.61	-26.81	-80.53	8.63
	-71.06	-12.52	-55.75	-33.47	-98.43	8.43
	-75.37	-14.32	-59.13	-36.02	-104.39	7.38
	-75.37	-14.32	-59.13	-36.02	-104.39	7.38
	-71.06	-14.47	-55.75	-34.45	-98.43	5.50
	-58.14	-13.00	-45.61	-28.76	-80.53	2.76
	-36.61	-9.89	-28.72	-18.96	-50.71	-0.81
	-6.57	-4.95	-5.07	-4.95	-9.12	-4.95
	1.25	32.30	12.99	25.34	-10.50	44.74
	9.27	79.67	35.14	62.51	-16.60	110.36
	18.92	135.66	61.41	106.43	-23.56	187.91
4.25	32.53	134.29	67.71	105.40	-2.65	186.00
	20.95	78.87	40.69	61.90	1.21	109.24
	11.00	31.97	17.75	25.10	4.26	44.29
	-6.39	2.69	-5.02	-1.11	-8.86	6.48
	-36.24	-4.00	-28.44	-15.88	-50.19	7.88
	-57.55	-9.05	-45.17	-26.57	-79.71	8.47
	-70.34	-12.48	-55.21	-33.19	-97.43	8.23
	-74.61	-14.27	-58.56	-35.72	-103.33	7.17
	-74.61	-14.27	-58.56	-35.72	-103.33	7.17
	-70.34	-14.43	-55.21	-34.16	-97.43	5.30
	-57.55	-12.96	-45.17	-28.53	-79.71	2.60
	-36.24	-9.86	-28.44	-18.81	-50.19	-0.91
	-6.54	-4.90	-5.02	-4.90	-9.07	-4.90
	1.23	31.97	12.86	25.10	-10.41	44.29
	9.22	78.87	34.82	61.90	-16.38	109.24
	18.84	134.29	60.87	105.40	-23.18	186.00
4.30	32.45	132.95	67.18	104.40	-2.28	184.14
	20.91	78.08	40.38	61.31	1.43	108.14
	10.99	31.65	17.63	24.86	4.35	43.84

	-6.33	2.69	-4.97	-1.08	-8.77	6.46
	-35.87	-3.98	-28.17	-15.74	-49.69	7.78
	-56.98	-9.02	-44.74	-26.35	-78.92	8.31
	-69.64	-12.44	-54.68	-32.91	-96.45	8.04
	-73.86	-14.23	-58.00	-35.42	-102.30	6.97
	-73.86	-14.23	-58.00	-35.42	-102.30	6.97
	-69.64	-14.39	-54.68	-33.89	-96.45	5.10
	-56.98	-12.93	-44.74	-28.30	-78.92	2.44
	-35.87	-9.84	-28.17	-18.67	-49.69	-1.01
	-6.50	-4.85	-4.99	-4.85	-9.02	-4.85
	1.21	31.65	12.74	24.86	-10.32	43.84
	9.18	78.08	34.51	61.31	-16.16	108.14
	18.77	132.95	60.34	104.40	-22.81	184.14
4.35	32.38	131.64	66.67	103.41	-1.91	182.31
	20.86	77.31	40.08	60.74	1.65	107.07
	10.97	31.34	17.50	24.62	4.43	43.41
	-6.27	2.69	-4.92	-1.06	-8.68	6.45
	-35.52	-3.96	-27.91	-15.60	-49.20	7.69
	-56.42	-8.99	-44.32	-26.13	-78.13	8.15
	-68.95	-12.40	-54.17	-32.64	-95.50	7.85
	-73.13	-14.19	-57.45	-35.14	-101.29	6.77
	-73.13	-14.19	-57.45	-35.14	-101.29	6.77
	-68.95	-14.35	-54.17	-33.62	-95.50	4.91
	-56.42	-12.90	-44.32	-28.08	-78.13	2.29
	-35.52	-9.82	-27.91	-18.53	-49.20	-1.11
	-6.46	-4.81	-4.97	-4.81	-8.97	-4.81
	1.19	31.34	12.61	24.62	-10.23	43.41
	9.13	77.31	34.21	60.74	-15.95	107.07
	18.69	131.64	59.83	103.41	-22.44	182.31
4.40	32.30	130.36	66.17	102.46	-1.56	180.53
	20.82	76.56	39.78	60.17	1.85	106.03
	10.95	31.04	17.38	24.39	4.52	42.98
	-6.21	2.70	-4.88	-1.03	-8.60	6.43
	-35.18	-3.94	-27.65	-15.46	-48.72	7.59
	-55.87	-8.96	-43.91	-25.91	-77.37	8.00
	-68.28	-12.36	-53.67	-32.38	-94.57	7.66
	-72.42	-14.14	-56.92	-34.86	-100.30	6.57
	-72.42	-14.14	-56.92	-34.86	-100.30	6.57
	-68.28	-14.31	-53.67	-33.35	-94.57	4.73
	-55.87	-12.87	-43.91	-27.87	-77.37	2.13
	-35.18	-9.80	-27.65	-18.40	-48.72	-1.21
	-6.42	-4.76	-4.94	-4.76	-8.92	-4.76
	1.17	31.04	12.50	24.39	-10.15	42.98
	9.09	76.56	33.92	60.17	-15.74	106.03
	18.62	130.36	59.32	102.46	-22.09	180.53

4.45	32.23	129.11	65.68	101.52	-1.21	178.80
	20.78	75.83	39.49	59.62	2.06	105.01
	10.93	30.74	17.27	24.17	4.60	42.57
	-6.15	2.70	-4.83	-1.01	-8.51	6.41
	-34.84	-3.92	-27.39	-15.33	-48.25	7.50
	-55.33	-8.93	-43.51	-25.70	-76.63	7.85
	-67.63	-12.32	-53.18	-32.12	-93.65	7.48
	-71.73	-14.10	-56.40	-34.59	-99.33	6.38
	-71.73	-14.10	-56.40	-34.59	-99.33	6.38
	-67.63	-14.28	-53.18	-33.10	-93.65	4.55
	-55.33	-12.84	-43.51	-27.66	-76.63	1.99
	-34.84	-9.78	-27.39	-18.26	-48.25	-1.30
	-6.39	-4.72	-4.92	-4.72	-8.87	-4.72
	1.16	30.74	12.38	24.17	-10.06	42.57
	9.04	75.83	33.63	59.62	-15.54	105.01
	18.54	129.11	58.83	101.52	-21.74	178.80
4.50	33.18	128.91	66.22	101.62	0.15	178.47
	21.33	75.71	39.81	59.68	2.86	104.82
	11.16	30.69	17.39	24.20	4.92	42.49
	-6.14	2.66	-4.84	-1.03	-8.50	6.35
	-34.78	-4.17	-27.42	-15.48	-48.16	7.13
	-55.25	-9.33	-43.55	-25.93	-76.49	7.27
	-67.52	-12.82	-53.23	-32.40	-93.49	6.77
	-71.61	-14.63	-56.46	-34.89	-99.15	5.62
	-71.61	-14.63	-56.46	-34.89	-99.15	5.62
	-67.52	-14.77	-53.23	-33.38	-93.49	3.83
	-55.25	-13.24	-43.55	-27.89	-76.49	1.40
	-34.78	-10.04	-27.42	-18.41	-48.16	-1.67
	-6.40	-4.73	-4.95	-4.73	-8.89	-4.73
	1.38	30.69	12.51	24.20	-9.74	42.49
	9.60	75.71	33.95	59.68	-14.74	104.82
	19.49	128.91	59.37	101.62	-20.38	178.47

En la Tabla 18 se muestran las combinaciones de esfuerzos para el cordón superior en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 18. Combinación de esfuerzos del cordón superior - 16 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)
0.50	-0.49	0.00	-0.24	0.00	-0.73	0.00
	83.08	523.14	239.56	406.21	-73.41	725.31
	155.50	976.53	447.39	758.26	-136.39	1353.90
	216.78	1360.17	623.24	1056.15	-189.69	1885.80

	266.92	1674.05	767.13	1299.87	-233.29	2320.98
	305.91	1918.19	879.03	1489.44	-267.21	2659.46
	333.77	2092.57	958.97	1624.84	-291.43	2901.22
	350.48	2197.19	1006.93	1706.08	-305.97	3046.28
	351.46	2197.19	1007.42	1706.08	-304.50	3046.28
	334.74	2092.57	959.46	1624.84	-289.97	2901.22
	306.89	1918.19	879.52	1489.44	-265.74	2659.46
	267.89	1674.05	767.62	1299.87	-231.83	2320.98
	217.76	1360.17	623.73	1056.15	-188.22	1885.80
	156.47	976.53	447.88	758.26	-134.93	1353.90
	84.05	523.14	240.05	406.21	-71.94	725.31
	0.00	0.49	0.00	0.24	0.00	0.73
	-0.49	0.00	-0.24	0.00	-0.73	0.00
0.55	67.81	467.91	210.09	361.61	-74.47	649.01
	127.00	873.44	392.38	675.01	-138.38	1211.49
	177.08	1216.58	546.62	940.19	-192.45	1687.44
	218.06	1497.32	672.82	1157.16	-236.70	2076.85
	249.94	1715.68	770.98	1325.91	-271.11	2379.72
	272.70	1871.65	841.09	1446.45	-295.69	2596.06
	286.36	1965.24	883.16	1518.77	-310.43	2725.86
	287.34	1965.24	883.64	1518.77	-308.97	2725.86
	273.68	1871.65	841.58	1446.45	-294.22	2596.06
	250.91	1715.68	771.47	1325.91	-269.64	2379.72
	219.04	1497.32	673.31	1157.16	-235.23	2076.85
	178.06	1216.58	547.11	940.19	-190.99	1687.44
	127.98	873.44	392.87	675.01	-136.91	1211.49
	68.79	467.91	210.58	361.61	-73.00	649.01
	0.00	0.49	0.00	0.24	0.00	0.73
	-0.49	0.00	-0.24	0.00	-0.73	0.00
0.60	58.26	425.06	188.70	327.62	-72.19	589.72
	109.17	793.44	352.45	611.55	-134.12	1100.80
	152.25	1105.15	491.01	851.80	-186.52	1533.26
	187.49	1360.19	604.37	1048.37	-229.39	1887.09
	214.91	1558.55	692.55	1201.26	-262.74	2162.29
	234.49	1700.23	755.53	1310.46	-286.56	2358.87
	246.24	1785.25	793.32	1375.99	-300.85	2476.81
	247.21	1785.25	793.81	1375.99	-299.38	2476.81
	235.46	1700.23	756.02	1310.46	-285.09	2358.87
	215.88	1558.55	693.04	1201.26	-261.27	2162.29
	188.47	1360.19	604.86	1048.37	-227.92	1887.09
	153.22	1105.15	491.50	851.80	-185.05	1533.26
	110.14	793.44	352.94	611.55	-132.65	1100.80
	59.23	425.06	189.19	327.62	-70.72	589.72
	0.00	0.49	0.00	0.24	0.00	0.73
0.65	-0.49	0.00	-0.24	0.00	-0.73	0.00

	48.76	387.38	169.19	297.44	-71.67	537.63
	91.44	723.12	316.03	555.22	-133.15	1003.58
	127.56	1007.20	440.28	773.34	-185.17	1397.85
	157.10	1239.63	541.94	951.80	-227.73	1720.43
	180.09	1420.41	621.01	1090.60	-260.83	1971.33
	196.50	1549.54	677.48	1189.75	-284.48	2150.54
	206.35	1627.02	711.37	1249.24	-298.66	2258.06
	207.33	1627.02	711.86	1249.24	-297.20	2258.06
	197.48	1549.54	677.97	1189.75	-283.01	2150.54
	181.06	1420.41	621.50	1090.60	-259.37	1971.33
	158.08	1239.63	542.43	951.80	-226.26	1720.43
	128.53	1007.20	440.77	773.34	-183.70	1397.85
	92.42	723.12	316.52	555.22	-131.68	1003.58
	49.74	387.38	169.68	297.44	-70.20	537.63
	0.00	0.49	0.00	0.24	0.00	0.73
0.70	-0.49	0.00	-0.24	0.00	-0.73	0.00
	42.02	356.49	153.86	272.97	-69.83	494.88
	78.85	665.44	287.42	509.54	-129.71	923.77
	110.02	926.87	400.42	709.71	-180.38	1286.68
	135.52	1140.76	492.89	873.49	-221.84	1583.60
	155.36	1307.12	564.80	1000.87	-254.08	1814.55
	169.53	1425.95	616.17	1091.86	-277.12	1979.51
	178.03	1497.25	646.99	1146.46	-290.93	2078.48
	179.01	1497.25	647.48	1146.46	-289.47	2078.48
	170.50	1425.95	616.66	1091.86	-275.65	1979.51
	156.34	1307.12	565.29	1000.87	-252.62	1814.55
	136.50	1140.76	493.38	873.49	-220.37	1583.60
	111.00	926.87	400.91	709.71	-178.92	1286.68
	79.83	665.44	287.90	509.54	-128.25	923.77
	42.99	356.49	154.35	272.97	-68.36	494.88
	0.00	0.49	0.00	0.24	0.00	0.73
0.75	-0.49	0.00	-0.24	0.00	-0.73	0.00
	37.84	331.38	142.25	253.43	-66.56	460.08
	71.06	618.58	265.74	473.07	-123.61	858.81
	99.18	861.60	370.23	658.92	-171.88	1196.20
	122.17	1060.43	455.73	810.98	-211.38	1472.25
	140.06	1215.07	522.23	929.24	-242.10	1686.95
	152.84	1325.54	569.72	1013.72	-264.04	1840.31
	160.51	1391.81	598.22	1064.41	-277.21	1932.33
	161.48	1391.81	598.71	1064.41	-275.74	1932.33
	153.82	1325.54	570.21	1013.72	-262.58	1840.31
	141.04	1215.07	522.71	929.24	-240.63	1686.95
	123.15	1060.43	456.22	810.98	-209.91	1472.25
	100.15	861.60	370.72	658.92	-170.42	1196.20
	72.04	618.58	266.23	473.07	-122.14	858.81

	38.82	331.38	142.74	253.43	-65.09	460.08
	0.00	0.49	0.00	0.24	0.00	0.73
0.80	-0.49	0.00	-0.24	0.00	-0.73	0.00
	32.93	308.15	130.82	235.07	-64.97	427.92
	61.89	575.22	244.41	438.80	-120.63	798.79
	86.40	801.20	340.53	611.19	-167.74	1112.60
	106.45	986.09	419.17	752.23	-206.28	1369.35
	122.04	1129.90	480.34	861.93	-236.25	1569.05
	133.18	1232.61	524.02	940.29	-257.66	1711.69
	139.87	1294.24	550.24	987.30	-270.51	1797.28
	140.84	1294.24	550.73	987.30	-269.04	1797.28
	134.16	1232.61	524.51	940.29	-256.19	1711.69
	123.02	1129.90	480.82	861.93	-234.78	1569.05
	107.43	986.09	419.66	752.23	-204.81	1369.35
	87.37	801.20	341.02	611.19	-166.27	1112.60
	62.87	575.22	244.90	438.80	-119.17	798.79
	33.91	308.15	131.31	235.07	-63.50	427.92
	0.00	0.49	0.00	0.24	0.00	0.73
0.85	-0.49	0.00	-0.24	0.00	-0.73	0.00
	31.28	290.34	123.43	221.56	-60.87	403.18
	58.81	541.98	230.61	413.58	-112.99	752.60
	82.11	754.89	321.31	576.06	-157.09	1048.26
	101.17	929.10	395.51	708.99	-193.17	1290.17
	116.00	1064.59	453.23	812.39	-221.23	1478.32
	126.59	1161.38	494.45	886.24	-241.28	1612.72
	132.94	1219.44	519.19	930.56	-253.31	1693.35
	133.92	1219.44	519.68	930.56	-251.84	1693.35
	127.56	1161.38	494.94	886.24	-239.81	1612.72
	116.97	1064.59	453.72	812.39	-219.77	1478.32
	102.15	929.10	396.00	708.99	-191.70	1290.17
	83.09	754.89	321.80	576.06	-155.62	1048.26
	59.79	541.98	231.10	413.58	-111.52	752.60
	32.26	290.34	123.92	221.56	-59.40	403.18
	0.00	0.49	0.00	0.24	0.00	0.73
0.90	-0.49	0.00	-0.24	0.00	-0.73	0.00
	28.12	272.82	115.17	207.86	-58.92	378.90
	52.92	509.27	215.19	388.01	-109.35	707.29
	73.91	709.34	299.83	540.44	-152.02	985.15
	91.07	873.03	369.08	665.16	-186.93	1212.49
	104.43	1000.35	422.94	762.16	-214.08	1389.31
	113.96	1091.29	461.41	831.45	-233.48	1515.61
	119.69	1145.86	484.49	873.02	-245.12	1591.39
	120.66	1145.86	484.98	873.02	-243.65	1591.39
	114.94	1091.29	461.90	831.45	-232.01	1515.61
	105.40	1000.35	423.43	762.16	-212.62	1389.31

	92.05	873.03	369.57	665.16	-185.46	1212.49
	74.88	709.34	300.32	540.44	-150.55	985.15
	53.90	509.27	215.68	388.01	-107.88	707.29
	29.10	272.82	115.66	207.86	-57.45	378.90
	0.00	0.49	0.00	0.24	0.00	0.73
0.95	-0.49	0.00	-0.24	0.00	-0.73	0.00
	26.84	258.68	109.31	197.14	-55.64	359.25
	50.52	482.87	204.26	367.99	-103.23	670.61
	70.55	672.57	284.60	512.56	-143.49	934.06
	86.95	827.78	350.33	630.84	-176.43	1149.61
	99.70	948.50	401.46	722.84	-202.06	1317.26
	108.81	1034.72	437.98	788.55	-220.36	1437.01
	114.27	1086.46	459.89	827.98	-231.34	1508.87
	115.25	1086.46	460.38	827.98	-229.88	1508.87
	109.79	1034.72	438.47	788.55	-218.89	1437.01
	100.68	948.50	401.95	722.84	-200.59	1317.26
	87.93	827.78	350.82	630.84	-174.97	1149.61
	71.53	672.57	285.09	512.56	-142.02	934.06
	51.49	482.87	204.75	367.99	-101.76	670.61
	27.81	258.68	109.80	197.14	-54.17	359.25
	0.00	0.49	0.00	0.24	0.00	0.73
	1.00	-0.49	0.00	-0.24	0.00	-0.73
24.23		244.50	102.59	186.04	-54.14	339.61
45.64		456.41	191.71	347.27	-100.42	633.94
63.77		635.71	267.12	483.70	-139.59	882.99
78.60		782.41	328.82	595.32	-171.63	1086.76
90.13		896.51	376.81	682.14	-196.55	1245.24
98.37		978.01	411.09	744.15	-214.36	1358.44
103.31		1026.91	431.66	781.36	-225.04	1426.37
104.29		1026.91	432.15	781.36	-223.57	1426.37
99.35		978.01	411.58	744.15	-212.89	1358.44
91.11		896.51	377.30	682.14	-195.09	1245.24
79.57		782.41	329.31	595.32	-170.16	1086.76
64.75		635.71	267.61	483.70	-138.12	882.99
46.62		456.41	192.20	347.27	-98.96	633.94
25.20		244.50	103.08	186.04	-52.67	339.61
0.00		0.49	0.00	0.24	0.00	0.73
1.05		-0.49	0.00	-0.24	0.00	-0.73
	23.32	233.13	97.96	177.45	-51.32	323.81
	43.95	435.18	183.08	331.24	-95.17	604.44
	61.41	606.14	255.10	461.37	-132.27	841.89
	75.70	746.02	314.02	567.84	-162.63	1036.18
	86.81	854.81	359.85	650.65	-186.23	1187.29
	94.75	932.52	392.59	709.80	-203.10	1295.22
	99.51	979.15	412.23	745.29	-213.22	1359.98

	100.48	979.15	412.72	745.29	-211.75	1359.98
	95.72	932.52	393.08	709.80	-201.63	1295.22
	87.79	854.81	360.34	650.65	-184.77	1187.29
	76.68	746.02	314.51	567.84	-161.16	1036.18
	62.39	606.14	255.59	461.37	-130.80	841.89
	44.93	435.18	183.57	331.24	-93.70	604.44
	24.30	233.13	98.45	177.45	-49.86	323.81
	0.00	0.49	0.00	0.24	0.00	0.73
1.10	-0.49	0.00	-0.24	0.00	-0.73	0.00
	22.38	222.68	93.65	169.53	-48.88	309.29
	42.21	415.67	175.02	316.46	-90.60	577.33
	58.98	578.97	243.87	440.78	-125.91	804.14
	72.70	712.58	300.21	542.50	-154.80	989.71
	83.38	816.50	344.02	621.61	-177.26	1134.05
	91.00	890.72	375.32	678.12	-193.31	1237.14
	95.58	935.26	394.10	712.03	-202.94	1299.00
	96.56	935.26	394.59	712.03	-201.48	1299.00
	91.98	890.72	375.81	678.12	-191.85	1237.14
	84.36	816.50	344.51	621.61	-175.80	1134.05
	73.68	712.58	300.70	542.50	-153.33	989.71
	59.96	578.97	244.36	440.78	-124.44	804.14
	43.19	415.67	175.51	316.46	-89.14	577.33
	23.36	222.68	94.14	169.53	-47.41	309.29
	0.00	0.49	0.00	0.24	0.00	0.73
1.15	-0.49	0.00	-0.24	0.00	-0.73	0.00
	21.64	213.25	89.82	162.41	-46.53	296.18
	40.83	398.07	167.87	303.17	-86.22	552.87
	57.06	554.46	233.92	422.28	-119.81	770.07
	70.34	682.41	287.96	519.72	-147.29	947.78
	80.66	781.93	329.99	595.52	-168.66	1086.00
	88.04	853.01	360.01	649.65	-183.92	1184.72
	92.47	895.66	378.02	682.14	-193.08	1243.96
	93.45	895.66	378.51	682.14	-191.62	1243.96
	89.02	853.01	360.49	649.65	-182.46	1184.72
	81.64	781.93	330.47	595.52	-167.19	1086.00
	71.31	682.41	288.44	519.72	-145.82	947.78
	58.03	554.46	234.41	422.28	-118.34	770.07
	41.80	398.07	168.36	303.17	-84.76	552.87
	22.62	213.25	90.31	162.41	-45.06	296.18
	0.00	0.49	0.00	0.24	0.00	0.73
1.20	-0.49	0.00	-0.24	0.00	-0.73	0.00
	19.17	202.82	84.51	154.10	-46.17	281.75
	36.21	378.59	157.97	287.64	-85.56	525.93
	50.62	527.32	220.13	400.65	-118.88	732.54
	62.42	649.01	270.98	493.10	-146.14	901.59

	71.59	743.66	310.54	565.02	-167.35	1033.07
	78.15	811.27	338.79	616.38	-182.50	1126.98
	82.08	851.83	355.74	647.20	-191.58	1183.33
	83.06	851.83	356.23	647.20	-190.12	1183.33
	79.12	811.27	339.28	616.38	-181.03	1126.98
	72.57	743.66	311.03	565.02	-165.88	1033.07
	63.40	649.01	271.47	493.10	-144.68	901.59
	51.60	527.32	220.62	400.65	-117.41	732.54
	37.19	378.59	158.46	287.64	-84.09	525.93
	20.15	202.82	85.00	154.10	-44.71	281.75
	0.00	0.49	0.00	0.24	0.00	0.73
1.25	-0.49	0.00	-0.24	0.00	-0.73	0.00
	18.62	194.94	81.36	148.16	-44.12	270.79
	35.17	363.88	152.08	276.57	-81.73	505.47
	49.18	506.83	211.91	385.22	-113.55	704.05
	60.64	623.79	260.87	474.12	-139.59	866.52
	69.56	714.76	298.95	543.26	-159.84	992.89
	75.93	779.74	326.15	592.65	-174.30	1083.15
	79.75	818.73	342.47	622.28	-182.98	1137.31
	80.73	818.73	342.96	622.28	-181.51	1137.31
	76.90	779.74	326.64	592.65	-172.83	1083.15
	70.54	714.76	299.44	543.26	-158.37	992.89
	61.62	623.79	261.36	474.12	-138.12	866.52
	50.16	506.83	212.40	385.22	-112.09	704.05
	36.15	363.88	152.56	276.57	-80.26	505.47
	19.59	194.94	81.84	148.16	-42.66	270.79
	0.00	0.49	0.00	0.24	0.00	0.73
1.30	-0.49	0.00	-0.24	0.00	-0.73	0.00
	18.11	187.66	78.44	142.69	-42.23	260.68
	34.22	350.30	146.64	266.35	-78.20	486.60
	47.86	487.92	204.34	370.99	-108.63	677.76
	59.01	600.52	251.55	456.60	-133.53	834.17
	67.69	688.10	288.27	523.19	-152.89	955.81
	73.89	750.65	314.50	570.76	-166.73	1042.71
	77.61	788.18	330.24	599.29	-175.03	1094.84
	78.58	788.18	330.73	599.29	-173.56	1094.84
	74.86	750.65	314.99	570.76	-165.26	1042.71
	68.67	688.10	288.76	523.19	-151.43	955.81
	59.99	600.52	252.04	456.60	-132.06	834.17
	48.83	487.92	204.83	370.99	-107.16	677.76
	35.20	350.30	147.13	266.35	-76.73	486.60
	19.08	187.66	78.93	142.69	-40.76	260.68
	0.00	0.49	0.00	0.24	0.00	0.73
1.35	-0.49	0.00	-0.24	0.00	-0.73	0.00
	17.45	180.74	75.56	137.43	-40.66	251.06

	32.99	337.39	141.25	256.54	-75.27	468.65
	46.14	469.93	196.84	357.33	-104.55	652.76
	56.90	578.37	242.32	439.79	-128.51	803.40
	65.27	662.72	277.70	503.93	-147.15	920.56
	71.25	722.97	302.96	549.74	-160.46	1004.25
	74.84	759.12	318.12	577.22	-168.44	1054.46
	75.82	759.12	318.61	577.22	-166.98	1054.46
	72.23	722.97	303.45	549.74	-158.99	1004.25
	66.25	662.72	278.18	503.93	-145.68	920.56
	57.88	578.37	242.81	439.79	-127.05	803.40
	47.12	469.93	197.33	357.33	-103.09	652.76
	33.97	337.39	141.74	256.54	-73.80	468.65
	18.42	180.74	76.05	137.43	-39.20	251.06
	0.00	0.49	0.00	0.24	0.00	0.73
1.40	-0.49	0.00	-0.24	0.00	-0.73	0.00
	17.02	174.50	73.06	132.74	-39.03	242.38
	32.19	325.73	136.60	247.78	-72.21	452.45
	45.03	453.70	190.35	345.12	-100.29	630.20
	55.54	558.40	234.34	424.76	-123.27	775.63
	63.71	639.83	268.55	486.71	-141.14	888.74
	69.54	698.00	292.99	530.95	-153.90	969.53
	73.04	732.90	307.65	557.50	-161.56	1018.01
	74.02	732.90	308.14	557.50	-160.09	1018.01
	70.52	698.00	293.47	530.95	-152.44	969.53
	64.68	639.83	269.04	486.71	-139.67	888.74
	56.51	558.40	234.83	424.76	-121.80	775.63
	46.01	453.70	190.84	345.12	-98.83	630.20
	33.17	325.73	137.08	247.78	-70.75	452.45
	18.00	174.50	73.55	132.74	-37.56	242.38
	0.00	0.49	0.00	0.24	0.00	0.73
1.45	-0.49	0.00	-0.24	0.00	-0.73	0.00
	16.62	168.69	70.74	128.37	-37.50	234.30
	31.45	314.89	132.26	239.62	-69.36	437.37
	44.00	438.59	184.32	333.76	-96.32	609.19
	54.27	539.81	226.91	410.78	-118.38	749.78
	62.25	618.53	260.04	470.68	-135.54	859.12
	67.96	674.76	283.70	513.47	-147.79	937.22
	71.38	708.50	297.90	539.15	-155.14	984.08
	72.36	708.50	298.39	539.15	-153.68	984.08
	68.93	674.76	284.19	513.47	-146.33	937.22
	63.23	618.53	260.53	470.68	-134.07	859.12
	55.24	539.81	227.40	410.78	-116.91	749.78
	44.98	438.59	184.81	333.76	-94.85	609.19
	32.43	314.89	132.75	239.62	-67.89	437.37
	17.60	168.69	71.23	128.37	-36.03	234.30

	0.00	0.49	0.00	0.24	0.00	0.73
1.50	-0.49	0.00	-0.24	0.00	-0.73	0.00
	15.41	162.42	67.73	123.44	-36.92	225.62
	29.18	303.19	126.64	230.43	-68.28	421.16
	40.84	422.29	176.49	320.95	-94.81	586.62
	50.38	519.75	217.28	395.02	-116.52	721.99
	57.79	595.54	249.00	452.63	-133.41	827.29
	63.09	649.68	271.66	493.78	-145.47	902.49
	66.27	682.17	285.25	518.46	-152.71	947.62
	67.25	682.17	285.74	518.46	-151.24	947.62
	64.07	649.68	272.14	493.78	-144.01	902.49
	58.77	595.54	249.49	452.63	-131.94	827.29
	51.35	519.75	217.76	395.02	-115.06	721.99
	41.82	422.29	176.98	320.95	-93.35	586.62
	30.16	303.19	127.13	230.43	-66.81	421.16
	16.38	162.42	68.22	123.44	-35.45	225.62
		0.00	0.49	0.00	0.24	0.00
1.55	-0.49	0.00	-0.24	0.00	-0.73	0.00
	15.09	157.38	65.73	119.66	-35.55	218.61
	28.59	293.77	122.92	223.36	-65.73	408.07
	40.02	409.18	171.30	311.11	-91.27	568.39
	49.37	503.61	210.89	382.91	-112.16	699.56
	56.64	577.05	241.68	438.75	-128.41	801.57
	61.83	629.51	263.67	478.64	-140.01	874.44
	64.94	660.99	276.87	502.57	-146.98	918.17
	65.92	660.99	277.36	502.57	-145.51	918.17
	62.81	629.51	264.16	478.64	-138.55	874.44
	57.61	577.05	242.17	438.75	-126.94	801.57
	50.34	503.61	211.38	382.91	-110.69	699.56
	41.00	409.18	171.79	311.11	-89.80	568.39
	29.57	293.77	123.41	223.36	-64.26	408.07
	16.07	157.38	66.22	119.66	-34.09	218.61
		0.00	0.49	0.00	0.24	0.00
1.60	-0.49	0.00	-0.24	0.00	-0.73	0.00
	14.80	152.65	63.87	116.11	-34.27	212.04
	28.04	284.95	119.43	216.74	-63.34	395.81
	39.25	396.90	166.44	301.89	-87.94	551.30
	48.42	488.49	204.91	371.56	-108.06	678.52
	55.56	559.73	234.82	425.74	-123.71	777.48
	60.65	610.61	256.19	464.45	-134.89	848.16
	63.71	641.14	269.02	487.67	-141.60	890.56
	64.68	641.14	269.50	487.67	-140.14	890.56
	61.63	610.61	256.68	464.45	-133.43	848.16
	56.53	559.73	235.31	425.74	-122.25	777.48
	49.40	488.49	205.39	371.56	-106.60	678.52

	40.23	396.90	166.93	301.89	-86.47	551.30
	29.02	284.95	119.92	216.74	-61.87	395.81
	15.77	152.65	64.35	116.11	-32.81	212.04
	0.00	0.49	0.00	0.24	0.00	0.73
1.65	-0.49	0.00	-0.24	0.00	-0.73	0.00
	14.52	148.21	62.11	112.78	-33.07	205.87
	27.53	276.67	116.15	210.52	-61.09	384.28
	38.54	385.36	161.88	293.23	-84.81	535.25
	47.54	474.29	199.29	360.90	-104.21	658.77
	54.55	543.45	228.39	413.53	-119.30	754.85
	59.55	592.86	249.17	451.12	-130.08	823.47
	62.55	622.50	261.64	473.68	-136.54	864.64
	63.53	622.50	262.13	473.68	-135.08	864.64
	60.53	592.86	249.66	451.12	-128.61	823.47
	55.52	543.45	228.88	413.53	-117.83	754.85
	48.52	474.29	199.78	360.90	-102.74	658.77
	39.51	385.36	162.37	293.23	-83.34	535.25
	28.51	276.67	116.64	210.52	-59.63	384.28
	15.50	148.21	62.60	112.78	-31.60	205.87
	0.00	0.49	0.00	0.24	0.00	0.73
1.70	-0.49	0.00	-0.24	0.00	-0.73	0.00
	14.26	144.04	60.46	109.65	-31.93	200.06
	27.05	268.87	113.07	204.67	-58.98	373.44
	37.86	374.50	157.59	285.08	-81.86	520.16
	46.72	460.92	194.01	350.87	-100.58	640.19
	53.60	528.14	222.34	402.04	-115.14	733.55
	58.52	576.16	242.57	438.59	-125.54	800.24
	61.47	604.96	254.71	460.52	-131.78	840.25
	62.44	604.96	255.20	460.52	-130.31	840.25
	59.49	576.16	243.06	438.59	-124.07	800.24
	54.58	528.14	222.83	402.04	-113.67	733.55
	47.69	460.92	194.50	350.87	-99.11	640.19
	38.84	374.50	158.07	285.08	-80.39	520.16
	28.02	268.87	113.56	204.67	-57.51	373.44
	15.24	144.04	60.95	109.65	-30.47	200.06
	0.00	0.49	0.00	0.24	0.00	0.73
1.75	-0.49	0.00	-0.24	0.00	-0.73	0.00
	14.02	140.10	58.90	106.69	-30.86	194.59
	26.59	261.53	110.17	199.16	-56.98	363.23
	37.24	364.27	153.54	277.40	-79.07	505.92
	45.94	448.33	189.03	341.42	-97.15	622.67
	52.71	513.71	216.64	391.21	-111.21	713.48
	57.55	560.41	236.35	426.78	-121.26	778.34
	60.45	588.43	248.18	448.11	-127.28	817.26
	61.43	588.43	248.67	448.11	-125.82	817.26

	58.53	560.41	236.84	426.78	-119.79	778.34
	53.69	513.71	217.12	391.21	-109.75	713.48
	46.92	448.33	189.52	341.42	-95.68	622.67
	38.21	364.27	154.03	277.40	-77.61	505.92
	27.57	261.53	110.66	199.16	-55.51	363.23
	15.00	140.10	59.39	106.69	-29.40	194.59
	0.00	0.49	0.00	0.24	0.00	0.73
1.80	-0.49	0.00	-0.24	0.00	-0.73	0.00
	13.79	136.39	57.44	103.91	-29.85	189.42
	26.17	254.59	107.43	193.96	-55.09	353.58
	36.64	354.60	149.73	270.15	-76.44	492.49
	45.21	436.44	184.34	332.50	-93.91	606.14
	51.88	500.08	211.25	380.99	-107.50	694.53
	56.64	545.55	230.48	415.62	-117.21	757.67
	59.49	572.82	242.02	436.40	-123.03	795.55
	60.47	572.82	242.51	436.40	-121.56	795.55
	57.62	545.55	230.97	415.62	-115.74	757.67
	52.85	500.08	211.74	380.99	-106.03	694.53
	46.19	436.44	184.82	332.50	-92.45	606.14
	37.62	354.60	150.22	270.15	-74.97	492.49
	27.15	254.59	107.92	193.96	-53.62	353.58
	14.77	136.39	57.93	103.91	-28.38	189.42
	0.00	0.49	0.00	0.24	0.00	0.73
1.85	-0.49	0.00	-0.24	0.00	-0.73	0.00
	13.58	132.87	56.05	101.27	-28.89	184.53
	25.77	248.03	104.84	189.04	-53.30	344.46
	36.09	345.47	146.12	263.30	-73.95	479.78
	44.53	425.19	179.90	324.06	-90.84	590.50
	51.09	487.20	206.17	371.32	-103.98	676.61
	55.78	531.49	224.93	405.08	-113.37	738.12
	58.59	558.06	236.19	425.33	-119.00	775.03
	59.57	558.06	236.68	425.33	-117.54	775.03
	56.76	531.49	225.42	405.08	-111.90	738.12
	52.07	487.20	206.66	371.32	-102.52	676.61
	45.50	425.19	180.39	324.06	-89.38	590.50
	37.06	345.47	146.61	263.30	-72.48	479.78
	26.75	248.03	105.33	189.04	-51.83	344.46
	14.56	132.87	56.54	101.27	-27.43	184.53
0.00	0.49	0.00	0.24	0.00	0.73	
1.90	-0.49	0.00	-0.24	0.00	-0.73	0.00
	13.86	130.02	55.22	99.25	-27.50	180.55
	26.29	242.71	103.28	185.27	-50.70	337.03
	36.81	338.06	143.96	258.06	-70.33	469.43
	45.42	416.08	177.23	317.61	-86.39	577.76
	52.12	476.76	203.12	363.93	-98.89	662.02

	56.90	520.10	221.60	397.01	-107.81	722.20
	59.77	546.10	232.70	416.86	-113.16	758.31
	60.74	546.10	233.19	416.86	-111.70	758.31
	57.87	520.10	222.09	397.01	-106.34	722.20
	53.09	476.76	203.61	363.93	-97.42	662.02
	46.40	416.08	177.72	317.61	-84.93	577.76
	37.79	338.06	144.45	258.06	-68.87	469.43
	27.27	242.71	103.77	185.27	-49.24	337.03
	14.84	130.02	55.71	99.25	-26.04	180.55
	0.00	0.49	0.00	0.24	0.00	0.73
1.95	-0.49	0.00	-0.24	0.00	-0.73	0.00
	13.66	126.86	53.97	96.88	-26.64	176.15
	25.92	236.81	100.95	180.84	-49.10	328.82
	36.30	329.84	140.70	251.89	-68.10	458.00
	44.79	405.96	173.23	310.02	-83.65	563.69
	51.39	465.16	198.53	355.23	-95.74	645.89
	56.11	507.45	216.60	387.52	-104.38	704.61
	58.94	532.82	227.44	406.89	-109.56	739.84
	59.92	532.82	227.93	406.89	-108.10	739.84
	57.09	507.45	217.09	387.52	-102.91	704.61
	52.37	465.16	199.02	355.23	-94.28	645.89
	45.77	405.96	173.72	310.02	-82.18	563.69
	37.28	329.84	141.19	251.89	-66.64	458.00
	26.90	236.81	101.44	180.84	-47.63	328.82
	14.64	126.86	54.46	96.88	-25.18	176.15
	0.00	0.49	0.00	0.24	0.00	0.73
2.00	-0.49	0.00	-0.24	0.00	-0.73	0.00
	13.48	123.86	52.78	94.63	-25.83	171.97
	25.58	231.20	98.73	176.63	-47.58	321.02
	35.82	322.03	137.62	246.03	-65.98	447.13
	44.20	396.35	169.43	302.80	-81.04	550.32
	50.71	454.15	194.18	346.96	-92.75	630.57
	55.37	495.43	211.85	378.50	-101.12	687.90
	58.16	520.20	222.46	397.43	-106.14	722.29
	59.14	520.20	222.94	397.43	-104.67	722.29
	56.34	495.43	212.34	378.50	-99.65	687.90
	51.69	454.15	194.66	346.96	-91.29	630.57
	45.17	396.35	169.92	302.80	-79.57	550.32
	36.80	322.03	138.11	246.03	-64.52	447.13
	26.55	231.20	99.22	176.63	-46.11	321.02
	14.45	123.86	53.27	94.63	-24.36	171.97
	0.00	0.49	0.00	0.24	0.00	0.73
2.05	-0.49	0.00	-0.24	0.00	-0.73	0.00
	13.30	121.00	51.65	92.48	-25.05	168.00
	25.25	225.87	96.63	172.63	-46.13	313.60

	35.36	314.61	134.68	240.45	-63.96	436.81
	43.63	387.21	165.82	295.94	-78.55	537.61
	50.07	443.67	190.04	339.10	-89.90	616.01
	54.66	484.01	207.34	369.93	-98.01	672.01
	57.42	508.21	217.72	388.43	-102.87	705.61
	58.40	508.21	218.20	388.43	-101.41	705.61
	55.64	484.01	207.82	369.93	-96.54	672.01
	51.04	443.67	190.53	339.10	-88.44	616.01
	44.61	387.21	166.31	295.94	-77.09	537.61
	36.34	314.61	135.17	240.45	-62.50	436.81
	26.23	225.87	97.12	172.63	-44.66	313.60
	14.28	121.00	52.14	92.48	-23.59	168.00
	0.00	0.49	0.00	0.24	0.00	0.73
2.10	-0.49	0.00	-0.24	0.00	-0.73	0.00
	13.13	118.28	50.58	90.44	-24.31	164.22
	24.94	220.79	94.62	168.82	-44.75	306.55
	34.93	307.53	131.89	235.15	-62.04	426.97
	43.10	378.50	162.38	289.41	-76.19	525.51
	49.46	433.70	186.10	331.62	-87.19	602.14
	54.00	473.13	203.04	361.77	-95.05	656.88
	56.72	496.79	213.20	379.86	-99.76	689.73
	57.70	496.79	213.69	379.86	-98.30	689.73
	54.97	473.13	203.53	361.77	-93.58	656.88
	50.43	433.70	186.59	331.62	-85.72	602.14
	44.08	378.50	162.87	289.41	-74.72	525.51
	35.90	307.53	132.38	235.15	-60.57	426.97
	25.91	220.79	95.11	168.82	-43.28	306.55
	14.11	118.28	51.07	90.44	-22.85	164.22
	0.00	0.49	0.00	0.24	0.00	0.73
2.15	-0.49	0.00	-0.24	0.00	-0.73	0.00
	12.97	115.69	49.55	88.50	-23.61	160.62
	24.64	215.95	92.71	165.19	-43.43	299.82
	34.51	300.79	129.23	230.09	-60.20	417.60
	42.59	370.21	159.11	283.19	-73.92	513.97
	48.87	424.20	182.35	324.49	-84.60	588.92
	53.36	462.76	198.95	353.99	-92.22	642.46
	56.06	485.90	208.91	371.69	-96.80	674.58
	57.03	485.90	209.39	371.69	-95.33	674.58
	54.34	462.76	199.43	353.99	-90.75	642.46
	49.85	424.20	182.84	324.49	-83.13	588.92
	43.57	370.21	159.60	283.19	-72.46	513.97
	35.49	300.79	129.72	230.09	-58.73	417.60
	25.62	215.95	93.20	165.19	-41.96	299.82
	13.95	115.69	50.04	88.50	-22.14	160.62
	0.00	0.49	0.00	0.24	0.00	0.73

2.20	-0.49	0.00	-0.24	0.00	-0.73	0.00
	12.82	113.22	48.58	86.64	-22.93	157.18
	24.36	211.34	90.89	161.73	-42.17	293.39
	34.12	294.36	126.69	225.27	-58.44	408.66
	42.11	362.29	155.98	277.25	-71.76	502.96
	48.32	415.13	178.77	317.68	-82.12	576.31
	52.76	452.87	195.04	346.56	-89.52	628.70
	55.42	475.51	204.81	363.89	-93.96	660.14
	56.40	475.51	205.29	363.89	-92.49	660.14
	53.74	452.87	195.53	346.56	-88.05	628.70
	49.30	415.13	179.26	317.68	-80.65	576.31
	43.09	362.29	156.47	277.25	-70.30	502.96
	35.10	294.36	127.18	225.27	-56.98	408.66
	25.34	211.34	91.38	161.73	-40.70	293.39
	13.80	113.22	49.07	86.64	-21.46	157.18
	0.00	0.49	0.00	0.24	0.00	0.73
2.25	-0.49	0.00	-0.24	0.00	-0.73	0.00
	12.73	110.90	47.69	84.91	-22.24	153.95
	24.18	207.01	89.23	158.50	-40.88	287.37
	33.87	288.33	124.38	220.77	-56.65	400.27
	41.80	354.87	153.14	271.72	-69.55	492.64
	47.96	406.63	175.51	311.35	-79.59	564.48
	52.37	443.59	191.49	339.65	-86.76	615.80
	55.01	465.77	201.08	356.64	-91.06	646.58
	55.99	465.77	201.57	356.64	-89.59	646.58
	53.34	443.59	191.98	339.65	-85.29	615.80
	48.94	406.63	176.00	311.35	-78.12	564.48
	42.77	354.87	153.63	271.72	-68.09	492.64
	34.85	288.33	124.87	220.77	-55.18	400.27
	25.15	207.01	89.72	158.50	-39.41	287.37
	13.70	110.90	48.18	84.91	-20.77	153.95
	0.00	0.49	0.00	0.24	0.00	0.73
2.30	-0.49	0.00	-0.24	0.00	-0.73	0.00
	12.59	108.64	46.80	83.22	-21.62	150.81
	23.92	202.79	87.57	155.34	-39.72	281.50
	33.51	282.46	122.07	216.37	-55.04	392.09
	41.36	347.64	150.29	266.30	-67.57	482.58
	47.46	398.34	172.24	305.13	-77.32	552.95
	51.82	434.55	187.93	332.87	-84.28	603.22
	54.44	456.28	197.33	349.52	-88.46	633.38
	55.41	456.28	197.82	349.52	-87.00	633.38
	52.80	434.55	188.41	332.87	-82.82	603.22
	48.44	398.34	172.73	305.13	-75.85	552.95
	42.34	347.64	150.78	266.30	-66.11	482.58
	34.49	282.46	122.55	216.37	-53.57	392.09

	24.90	202.79	88.06	155.34	-38.26	281.50
	13.57	108.64	47.29	83.22	-20.15	150.81
	0.00	0.49	0.00	0.24	0.00	0.73
2.35	-0.49	0.00	-0.24	0.00	-0.73	0.00
	12.46	106.47	45.95	81.60	-21.03	147.80
	23.68	198.75	85.98	152.31	-38.62	275.89
	33.17	276.83	119.85	212.15	-53.50	384.27
	40.94	340.72	147.56	261.11	-65.68	472.95
	46.98	390.41	169.12	299.18	-75.15	541.92
	51.30	425.90	184.51	326.38	-81.91	591.19
	53.89	447.19	193.75	342.70	-85.97	620.75
	54.87	447.19	194.24	342.70	-84.51	620.75
	52.28	425.90	185.00	326.38	-80.45	591.19
	47.96	390.41	169.61	299.18	-73.68	541.92
	41.92	340.72	148.05	261.11	-64.21	472.95
	34.15	276.83	120.34	212.15	-52.03	384.27
	24.66	198.75	86.46	152.31	-37.15	275.89
	13.44	106.47	46.43	81.60	-19.56	147.80
	0.00	0.49	0.00	0.24	0.00	0.73
	2.40	-0.49	0.00	-0.24	0.00	-0.73
12.33		104.40	45.13	80.04	-20.46	144.91
23.45		194.88	84.45	149.41	-37.56	270.51
32.85		271.44	117.72	208.11	-52.02	376.78
40.54		334.09	144.95	256.13	-63.86	463.72
46.53		382.81	166.12	293.48	-73.07	531.35
50.80		417.61	181.25	320.16	-79.64	579.66
53.37		438.49	190.32	336.17	-83.59	608.64
54.35		438.49	190.81	336.17	-82.12	608.64
51.78		417.61	181.74	320.16	-78.17	579.66
47.51		382.81	166.61	293.48	-71.60	531.35
41.52		334.09	145.44	256.13	-62.39	463.72
33.83		271.44	118.21	208.11	-50.56	376.78
24.42		194.88	84.94	149.41	-36.09	270.51
13.31		104.40	45.62	80.04	-18.99	144.91
0.00	0.49	0.00	0.24	0.00	0.73	
2.45	-0.49	0.00	-0.24	0.00	-0.73	0.00
	12.22	102.41	44.35	78.55	-19.91	142.15
	23.23	191.17	82.99	146.63	-36.54	265.35
	32.54	266.28	115.69	204.23	-50.60	369.59
	40.17	327.72	142.44	251.36	-62.11	454.88
	46.09	375.52	163.25	288.02	-71.06	521.22
	50.33	409.66	178.12	314.20	-77.46	568.60
	52.87	430.14	187.03	329.91	-81.29	597.03
	53.85	430.14	187.52	329.91	-79.83	597.03
	51.31	409.66	178.60	314.20	-75.99	568.60

	47.07	375.52	163.74	288.02	-69.60	521.22
	41.14	327.72	142.93	251.36	-60.65	454.88
	33.52	266.28	116.18	204.23	-49.14	369.59
	24.20	191.17	83.48	146.63	-35.07	265.35
	13.19	102.41	44.83	78.55	-18.45	142.15
	0.00	0.49	0.00	0.24	0.00	0.73
2.50	-0.49	0.00	-0.24	0.00	-0.73	0.00
	12.10	100.51	43.59	77.12	-19.39	139.50
	23.01	187.61	81.59	143.96	-35.56	260.39
	32.25	261.32	113.74	200.51	-49.24	362.69
	39.80	321.62	140.04	246.78	-60.44	446.39
	45.68	368.52	160.50	282.77	-69.14	511.49
	49.87	402.03	175.11	308.48	-75.36	557.99
	52.39	422.13	183.88	323.91	-79.09	585.89
	53.37	422.13	184.37	323.91	-77.63	585.89
	50.85	402.03	175.60	308.48	-73.89	557.99
	46.66	368.52	160.99	282.77	-67.68	511.49
	40.78	321.62	140.53	246.78	-58.97	446.39
	33.23	261.32	114.23	200.51	-47.77	362.69
	23.99	187.61	82.08	143.96	-34.09	260.39
	13.08	100.51	44.08	77.12	-17.92	139.50
0.00	0.49	0.00	0.24	0.00	0.73	
2.55	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.99	98.67	42.87	75.75	-18.89	136.95
	22.81	184.19	80.24	141.39	-34.62	255.64
	31.97	256.55	111.86	196.94	-47.93	356.07
	39.46	315.76	137.73	242.39	-58.82	438.23
	45.28	361.81	157.85	277.74	-67.29	502.14
	49.44	394.70	172.23	302.99	-73.34	547.79
	51.94	414.43	180.85	318.14	-76.97	575.18
	52.92	414.43	181.34	318.14	-75.51	575.18
	50.42	394.70	172.71	302.99	-71.88	547.79
	46.26	361.81	158.34	277.74	-65.83	502.14
	40.43	315.76	138.22	242.39	-57.36	438.23
	32.94	256.55	112.35	196.94	-46.46	356.07
	23.79	184.19	80.73	141.39	-33.15	255.64
	12.97	98.67	43.36	75.75	-17.42	136.95
0.00	0.49	0.00	0.24	0.00	0.73	
2.60	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.89	96.91	42.18	74.43	-18.40	134.50
	22.62	180.90	78.95	138.93	-33.71	251.06
	31.70	251.97	110.06	193.51	-46.67	349.70
	39.12	310.12	135.51	238.16	-57.27	430.40
	44.90	355.35	155.31	272.90	-65.51	493.16
	49.03	387.65	169.45	297.70	-71.40	537.99

	51.50	407.03	177.94	312.59	-74.94	564.89
	52.48	407.03	178.43	312.59	-73.47	564.89
	50.00	387.65	169.94	297.70	-69.94	537.99
	45.88	355.35	155.80	272.90	-64.05	493.16
	40.10	310.12	136.00	238.16	-55.80	430.40
	32.67	251.97	110.55	193.51	-45.20	349.70
	23.60	180.90	79.44	138.93	-32.25	251.06
	12.87	96.91	42.67	74.43	-16.93	134.50
	0.00	0.49	0.00	0.24	0.00	0.73
2.65	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.79	95.22	41.51	73.16	-17.93	132.14
	22.43	177.74	77.70	136.56	-32.84	246.66
	31.44	247.57	108.33	190.20	-45.45	343.57
	38.80	304.70	133.38	234.10	-55.77	422.85
	44.53	349.13	152.87	268.24	-63.80	484.52
	48.63	380.87	166.79	292.62	-69.53	528.57
	51.08	399.92	175.14	307.25	-72.97	555.00
	52.06	399.92	175.63	307.25	-71.51	555.00
	49.60	380.87	167.28	292.62	-68.07	528.57
	45.51	349.13	153.36	268.24	-62.33	484.52
	39.78	304.70	133.87	234.10	-54.31	422.85
	32.41	247.57	108.82	190.20	-43.99	343.57
	23.41	177.74	78.19	136.56	-31.37	246.66
	12.77	95.22	42.00	73.16	-16.47	132.14
	0.00	0.49	0.00	0.24	0.00	0.73
2.70	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.69	93.59	40.87	71.93	-17.48	129.87
	22.25	174.70	76.51	134.27	-32.00	242.43
	31.19	243.33	106.66	187.03	-44.28	337.67
	38.50	299.48	131.33	230.19	-54.33	415.59
	44.18	343.15	150.52	263.75	-62.15	476.20
	48.25	374.35	164.22	287.73	-67.73	519.49
	50.68	393.06	172.45	302.12	-71.08	545.47
	51.66	393.06	172.93	302.12	-69.62	545.47
	49.22	374.35	164.71	287.73	-66.27	519.49
	45.16	343.15	151.01	263.75	-60.68	476.20
	39.48	299.48	131.82	230.19	-52.87	415.59
	32.17	243.33	107.15	187.03	-42.82	337.67
	23.23	174.70	77.00	134.27	-30.53	242.43
	12.67	93.59	41.36	71.93	-16.02	129.87
	0.00	0.49	0.00	0.24	0.00	0.73
2.75	-0.49	0.00	-0.24	0.00	-0.73	0.00
	12.06	92.47	40.71	71.21	-16.59	128.30
	22.94	172.62	76.21	132.93	-30.33	239.50
	32.14	240.43	106.24	185.15	-41.96	333.59

	39.67	295.91	130.82	227.88	-51.48	410.57
	45.53	339.07	149.93	261.11	-58.88	470.45
	49.71	369.89	163.58	284.85	-64.16	513.22
	52.22	388.39	171.77	299.09	-67.34	538.88
	53.20	388.39	172.26	299.09	-65.87	538.88
	50.69	369.89	164.07	284.85	-62.70	513.22
	46.50	339.07	150.42	261.11	-57.41	470.45
	40.65	295.91	131.31	227.88	-50.01	410.57
	33.12	240.43	106.73	185.15	-40.50	333.59
	23.91	172.62	76.70	132.93	-28.87	239.50
	13.04	92.47	41.20	71.21	-15.12	128.30
	0.00	0.49	0.00	0.24	0.00	0.73
	-0.49	0.00	-0.24	0.00	-0.73	0.00
2.80	11.97	90.95	40.11	70.07	-16.17	126.19
	22.77	169.78	75.09	130.81	-29.56	235.56
	31.90	236.48	104.69	182.19	-40.88	328.10
	39.38	291.06	128.90	224.24	-50.14	403.82
	45.19	333.50	147.74	256.94	-57.35	462.71
	49.35	363.82	161.19	280.30	-62.50	504.77
	51.84	382.01	169.26	294.31	-65.58	530.01
	52.82	382.01	169.75	294.31	-64.12	530.01
	50.32	363.82	161.68	280.30	-61.03	504.77
	46.17	333.50	148.23	256.94	-55.88	462.71
	40.36	291.06	129.39	224.24	-48.68	403.82
	32.88	236.48	105.18	182.19	-39.41	328.10
	23.75	169.78	75.58	130.81	-28.09	235.56
	12.95	90.95	40.60	70.07	-14.71	126.19
	0.00	0.49	0.00	0.24	0.00	0.73
	-0.49	0.00	-0.24	0.00	-0.73	0.00
2.85	11.88	89.49	39.54	68.98	-15.77	124.16
	22.61	167.05	74.02	128.76	-28.80	231.76
	31.68	232.68	103.19	179.34	-39.83	322.81
	39.10	286.37	127.06	220.73	-48.86	397.30
	44.88	328.13	145.62	252.91	-55.87	455.24
	49.00	357.96	158.89	275.91	-60.89	496.63
	51.47	375.86	166.84	289.70	-63.89	521.46
	52.45	375.86	167.33	289.70	-62.43	521.46
	49.98	357.96	159.37	275.91	-59.42	496.63
	45.85	328.13	146.11	252.91	-54.41	455.24
	40.08	286.37	127.55	220.73	-47.39	397.30
	32.66	232.68	103.68	179.34	-38.37	322.81
	23.58	167.05	74.50	128.76	-27.34	231.76
	12.86	89.49	40.03	68.98	-14.31	124.16
	0.00	0.49	0.00	0.24	0.00	0.73
2.90	-0.49	0.00	-0.24	0.00	-0.73	0.00

	11.80	88.08	38.98	67.92	-15.38	122.19
	22.45	164.41	72.98	126.78	-28.08	228.09
	31.46	229.00	101.74	176.58	-38.82	317.70
	38.83	281.85	125.28	217.33	-47.61	391.01
	44.57	322.95	143.58	249.03	-54.45	448.04
	48.66	352.31	156.66	271.67	-59.33	488.77
	51.12	369.93	164.51	285.25	-62.26	513.21
	52.10	369.93	164.99	285.25	-60.79	513.21
	49.64	352.31	157.15	271.67	-57.86	488.77
	45.55	322.95	144.07	249.03	-52.98	448.04
	39.81	281.85	125.77	217.33	-46.15	391.01
	32.44	229.00	102.23	176.58	-37.36	317.70
	23.43	164.41	73.47	126.78	-26.61	228.09
	12.78	88.08	39.47	67.92	-13.92	122.19
	0.00	0.49	0.00	0.24	0.00	0.73
2.95	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.72	86.71	38.44	66.89	-15.01	120.29
	22.30	161.86	71.98	124.87	-27.38	224.55
	31.25	225.45	100.35	173.92	-37.84	312.76
	38.58	277.48	123.56	214.06	-46.41	384.94
	44.27	317.95	141.62	245.28	-53.07	441.08
	48.34	346.85	154.51	267.58	-57.83	481.17
	50.78	364.19	162.25	280.95	-60.68	505.23
	51.76	364.19	162.74	280.95	-59.21	505.23
	49.32	346.85	155.00	267.58	-56.36	481.17
	45.25	317.95	142.10	245.28	-51.60	441.08
	39.55	277.48	124.05	214.06	-44.94	384.94
	32.23	225.45	100.84	173.92	-36.38	312.76
	23.28	161.86	72.46	124.87	-25.91	224.55
	12.70	86.71	38.93	66.89	-13.54	120.29
	0.00	0.49	0.00	0.24	0.00	0.73
3.00	-0.49	0.00	-0.24	0.00	-0.73	0.00
	12.09	85.84	38.37	66.35	-14.20	119.06
	22.99	160.23	71.84	123.86	-25.86	222.25
	32.21	223.18	100.16	172.51	-35.74	309.56
	39.76	274.69	123.33	212.32	-43.82	380.99
	45.63	314.74	141.35	243.29	-50.10	436.56
	49.82	343.36	154.22	265.40	-54.59	476.24
	52.33	360.53	161.94	278.67	-57.28	500.06
	53.31	360.53	162.43	278.67	-55.81	500.06
	50.79	343.36	154.71	265.40	-53.12	476.24
	46.60	314.74	141.84	243.29	-48.63	436.56
	40.73	274.69	123.82	212.32	-42.35	380.99
	33.19	223.18	100.65	172.51	-34.27	309.56
	23.96	160.23	72.33	123.86	-24.40	222.25

	13.07	85.84	38.86	66.35	-12.73	119.06
	0.00	0.49	0.00	0.24	0.00	0.73
3.05	-0.49	0.00	-0.24	0.00	-0.73	0.00
	12.01	84.56	37.87	65.39	-13.85	117.28
	22.84	157.85	70.90	122.07	-25.21	218.93
	32.01	219.86	98.85	170.02	-34.83	304.94
	39.51	270.60	121.72	209.26	-42.70	375.31
	45.34	310.06	139.50	239.77	-48.81	430.04
	49.51	338.25	152.21	261.57	-53.19	469.14
	52.01	355.16	159.83	274.65	-55.81	492.59
	52.99	355.16	160.32	274.65	-54.34	492.59
	50.49	338.25	152.70	261.57	-51.72	469.14
	46.32	310.06	139.99	239.77	-47.35	430.04
	40.49	270.60	122.21	209.26	-41.23	375.31
	32.99	219.86	99.34	170.02	-33.36	304.94
	23.82	157.85	71.39	122.07	-23.74	218.93
	12.99	84.56	38.36	65.39	-12.38	117.28
	0.00	0.49	0.00	0.24	0.00	0.73
	3.10	-0.49	0.00	-0.24	0.00	-0.73
11.94		83.33	37.38	64.47	-13.51	115.56
22.71		155.54	69.99	120.34	-24.58	215.72
31.82		216.65	97.58	167.61	-33.95	300.47
39.27		266.64	120.16	206.29	-41.61	369.81
45.07		305.53	137.72	236.37	-47.57	423.74
49.22		333.30	150.26	257.86	-51.83	462.26
51.70		349.97	157.78	270.76	-54.38	485.37
52.68		349.97	158.27	270.76	-52.92	485.37
50.19		333.30	150.75	257.86	-50.36	462.26
46.05		305.53	138.21	236.37	-46.10	423.74
40.25		266.64	120.65	206.29	-40.14	369.81
32.80		216.65	98.07	167.61	-32.48	300.47
23.68		155.54	70.48	120.34	-23.11	215.72
12.91		83.33	37.87	64.47	-12.04	115.56
0.00		0.49	0.00	0.24	0.00	0.73
3.15		-0.49	0.00	-0.24	0.00	-0.73
	11.87	82.13	36.91	63.57	-13.18	113.90
	22.57	153.31	69.11	118.66	-23.96	212.61
	31.63	213.54	96.36	165.28	-33.09	296.14
	39.05	262.81	118.65	203.42	-40.56	364.48
	44.81	301.14	135.99	233.08	-46.37	417.63
	48.93	328.52	148.37	254.27	-50.51	455.60
	51.40	344.94	155.81	266.99	-53.00	478.38
	52.38	344.94	156.29	266.99	-51.54	478.38
	49.91	328.52	148.86	254.27	-49.05	455.60
	45.79	301.14	136.48	233.08	-44.90	417.63

	40.02	262.81	119.14	203.42	-39.09	364.48
	32.61	213.54	96.85	165.28	-31.62	296.14
	23.55	153.31	69.60	118.66	-22.50	212.61
	12.84	82.13	37.40	63.57	-11.71	113.90
	0.00	0.49	0.00	0.24	0.00	0.73
3.20	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.80	80.97	36.45	62.70	-12.86	112.29
	22.45	151.14	68.26	117.04	-23.37	209.61
	31.45	210.52	95.17	163.02	-32.26	291.95
	38.83	259.10	117.19	200.64	-39.54	359.32
	44.56	296.89	134.32	229.90	-45.20	411.72
	48.66	323.88	146.55	250.80	-49.24	449.15
	51.11	340.07	153.89	263.34	-51.66	471.61
	52.09	340.07	154.38	263.34	-50.20	471.61
	49.63	323.88	147.04	250.80	-47.77	449.15
	45.54	296.89	134.81	229.90	-43.73	411.72
	39.80	259.10	117.68	200.64	-38.07	359.32
	32.43	210.52	95.66	163.02	-30.80	291.95
	23.42	151.14	68.75	117.04	-21.90	209.61
	12.77	80.97	36.94	62.70	-11.39	112.29
	0.00	0.49	0.00	0.24	0.00	0.73
	3.25	-0.49	0.00	-0.24	0.00	-0.73
11.77		79.89	36.05	61.90	-12.51	110.78
22.40		149.12	67.51	115.54	-22.72	206.79
31.39		207.71	94.13	160.93	-31.35	288.03
38.74		255.64	115.90	198.07	-38.42	354.50
44.46		292.92	132.84	226.96	-43.92	406.19
48.55		319.55	144.94	247.59	-47.84	443.12
51.00		335.52	152.20	259.97	-50.20	465.28
51.98		335.52	152.69	259.97	-48.73	465.28
49.53		319.55	145.43	247.59	-46.38	443.12
45.44		292.92	133.33	226.96	-42.45	406.19
39.72		255.64	116.39	198.07	-36.95	354.50
32.36		207.71	94.61	160.93	-29.89	288.03
23.37		149.12	68.00	115.54	-21.25	206.79
12.75		79.89	36.54	61.90	-11.04	110.78
0.00	0.49	0.00	0.24	0.00	0.73	
3.30	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.71	78.80	35.62	61.08	-12.21	109.27
	22.28	147.09	66.71	114.02	-22.16	203.96
	31.22	204.87	93.01	158.81	-30.57	284.09
	38.54	252.15	114.53	195.46	-37.46	349.65
	44.23	288.93	131.27	223.96	-42.82	400.64
	48.29	315.19	143.23	244.32	-46.64	437.06
	50.73	330.95	150.40	256.54	-48.94	458.92

	51.71	330.95	150.89	256.54	-47.47	458.92
	49.27	315.19	143.72	244.32	-45.18	437.06
	45.20	288.93	131.76	223.96	-41.35	400.64
	39.51	252.15	115.02	195.46	-35.99	349.65
	32.20	204.87	93.50	158.81	-29.11	284.09
	23.25	147.09	67.20	114.02	-20.69	203.96
	12.68	78.80	36.11	61.08	-10.74	109.27
	0.00	0.49	0.00	0.24	0.00	0.73
3.35	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.64	77.74	35.21	60.29	-11.92	107.80
	22.16	145.12	65.93	112.54	-21.61	201.22
	31.06	202.13	91.93	156.75	-29.82	280.27
	38.34	248.77	113.20	192.93	-36.53	344.95
	44.00	285.05	129.75	221.06	-41.75	395.25
	48.04	310.97	141.56	241.16	-45.48	431.19
	50.47	326.51	148.66	253.21	-47.72	452.75
	51.45	326.51	149.14	253.21	-46.25	452.75
	49.02	310.97	142.05	241.16	-44.01	431.19
	44.98	285.05	130.24	221.06	-40.28	395.25
	39.31	248.77	113.69	192.93	-35.06	344.95
	32.03	202.13	92.42	156.75	-28.35	280.27
	23.14	145.12	66.42	112.54	-20.15	201.22
	12.62	77.74	35.70	60.29	-10.45	107.80
	0.00	0.49	0.00	0.24	0.00	0.73
3.40	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.58	76.72	34.80	59.52	-11.64	106.37
	22.05	143.20	65.18	111.11	-21.09	198.56
	30.90	199.46	90.88	154.75	-29.08	276.57
	38.14	245.49	111.91	190.47	-35.62	340.39
	43.78	281.29	128.27	218.24	-40.71	390.03
	47.80	306.87	139.95	238.08	-44.35	425.48
	50.22	322.21	146.96	249.99	-46.53	446.76
	51.20	322.21	147.45	249.99	-45.06	446.76
	48.78	306.87	140.44	238.08	-42.88	425.48
	44.76	281.29	128.76	218.24	-39.25	390.03
	39.12	245.49	112.40	190.47	-34.16	340.39
	31.88	199.46	91.37	154.75	-27.62	276.57
	23.02	143.20	65.67	111.11	-19.62	198.56
	12.56	76.72	35.29	59.52	-10.17	106.37
	0.00	0.49	0.00	0.24	0.00	0.73
3.45	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.53	75.72	34.41	58.78	-11.36	104.99
	21.94	141.35	64.45	109.71	-20.57	195.98
	30.75	196.88	89.87	152.82	-28.37	272.97
	37.96	242.31	110.66	188.08	-34.74	335.96

	43.57	277.65	126.84	215.51	-39.70	384.95
	47.57	302.89	138.39	235.10	-43.25	419.95
	49.97	318.03	145.32	246.86	-45.37	440.95
	50.95	318.03	145.81	246.86	-43.91	440.95
	48.55	302.89	138.88	235.10	-41.78	419.95
	44.54	277.65	127.32	215.51	-38.24	384.95
	38.94	242.31	111.15	188.08	-33.28	335.96
	31.73	196.88	90.36	152.82	-26.90	272.97
	22.92	141.35	64.94	109.71	-19.11	195.98
	12.50	75.72	34.90	58.78	-9.90	104.99
	0.00	0.49	0.00	0.24	0.00	0.73
3.50	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.47	74.76	34.03	58.05	-11.09	103.64
	21.83	139.54	63.74	108.36	-20.07	193.47
	30.60	194.36	88.88	150.93	-27.67	269.47
	37.78	239.22	109.45	185.76	-33.89	331.66
	43.36	274.10	125.44	212.85	-38.72	380.03
	47.35	299.02	136.87	232.20	-42.18	414.57
	49.74	313.97	143.73	243.81	-44.25	435.30
	50.71	313.97	144.21	243.81	-42.78	435.30
	48.32	299.02	137.36	232.20	-40.71	414.57
	44.34	274.10	125.93	212.85	-37.26	380.03
	38.76	239.22	109.94	185.76	-32.42	331.66
	31.58	194.36	89.37	150.93	-26.21	269.47
	22.81	139.54	64.23	108.36	-18.61	193.47
	12.45	74.76	34.52	58.05	-9.63	103.64
	0.00	0.49	0.00	0.24	0.00	0.73
3.55	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.42	73.82	33.67	57.35	-10.83	102.34
	21.73	137.79	63.05	107.05	-19.59	191.03
	30.46	191.92	87.92	149.10	-27.00	266.08
	37.60	236.21	108.27	183.51	-33.06	327.48
	43.16	270.66	124.09	210.27	-37.77	375.24
	47.13	295.27	135.39	229.39	-41.14	409.35
	49.51	310.03	142.18	240.86	-43.16	429.82
	50.49	310.03	142.66	240.86	-41.69	429.82
	48.11	295.27	135.88	229.39	-39.67	409.35
	44.14	270.66	124.58	210.27	-36.31	375.24
	38.58	236.21	108.76	183.51	-31.59	327.48
	31.44	191.92	88.41	149.10	-25.53	266.08
	22.71	137.79	63.54	107.05	-18.12	191.03
	12.39	73.82	34.15	57.35	-9.37	102.34
	0.00	0.49	0.00	0.24	0.00	0.73
3.60	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.36	72.90	33.31	56.66	-10.58	101.07

	21.63	136.09	62.38	105.77	-19.12	188.66
	30.32	189.55	86.99	147.32	-26.34	262.78
	37.44	233.29	107.12	181.32	-32.25	323.42
	42.97	267.31	122.78	207.77	-36.84	370.58
	46.92	291.62	133.96	226.65	-40.13	404.27
	49.29	306.20	140.67	237.99	-42.10	424.49
	50.26	306.20	141.16	237.99	-40.63	424.49
	47.89	291.62	134.45	226.65	-38.66	404.27
	43.94	267.31	123.27	207.77	-35.38	370.58
	38.41	233.29	107.61	181.32	-30.78	323.42
	31.30	189.55	87.48	147.32	-24.87	262.78
	22.61	136.09	62.87	105.77	-17.65	188.66
	12.34	72.90	33.80	56.66	-9.12	101.07
	0.00	0.49	0.00	0.24	0.00	0.73
3.65	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.78	72.48	33.42	56.46	-9.87	100.46
	22.41	135.30	62.60	105.40	-17.79	187.53
	31.40	188.45	87.29	146.80	-24.49	261.20
	38.76	231.94	107.49	180.68	-29.97	321.47
	44.48	265.76	123.20	207.03	-34.24	368.36
	48.57	289.92	134.43	225.85	-37.28	401.84
	51.02	304.42	141.16	237.14	-39.11	421.94
	52.00	304.42	141.65	237.14	-37.65	421.94
	49.55	289.92	134.91	225.85	-35.82	401.84
	45.46	265.76	123.69	207.03	-32.77	368.36
	39.74	231.94	107.98	180.68	-28.51	321.47
	32.38	188.45	87.78	146.80	-23.03	261.20
	23.38	135.30	63.09	105.40	-16.32	187.53
	12.75	72.48	33.91	56.46	-8.40	100.46
	0.00	0.49	0.00	0.24	0.00	0.73
3.70	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.73	71.62	33.08	55.81	-9.63	99.26
	22.31	133.68	61.97	104.19	-17.35	185.28
	31.27	186.20	86.41	145.12	-23.87	258.07
	38.60	229.17	106.40	178.61	-29.21	317.63
	44.30	262.59	121.96	204.65	-33.36	363.95
	48.37	286.47	133.07	223.26	-36.33	397.03
	50.81	300.79	139.73	234.42	-38.11	416.89
	51.79	300.79	140.22	234.42	-36.64	416.89
	49.34	286.47	133.55	223.26	-34.86	397.03
	45.27	262.59	122.44	204.65	-31.90	363.95
	39.57	229.17	106.89	178.61	-27.75	317.63
	32.25	186.20	86.90	145.12	-22.41	258.07
	23.29	133.68	62.46	104.19	-15.88	185.28
12.70	71.62	33.57	55.81	-8.17	99.26	

	0.00	0.49	0.00	0.24	0.00	0.73
3.75	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.68	70.77	32.75	55.18	-9.40	98.09
	22.22	132.11	61.35	103.01	-16.91	183.10
	31.14	184.01	85.55	143.48	-23.27	255.03
	38.44	226.48	105.34	176.59	-28.47	313.88
	44.11	259.51	120.74	202.34	-32.51	359.66
	48.17	283.10	131.74	220.74	-35.40	392.35
	50.60	297.25	138.34	231.77	-37.14	411.97
	51.58	297.25	138.83	231.77	-35.67	411.97
	49.15	283.10	132.23	220.74	-33.94	392.35
	45.09	259.51	121.23	202.34	-31.05	359.66
	39.42	226.48	105.83	176.59	-27.00	313.88
	32.12	184.01	86.04	143.48	-21.80	255.03
	23.20	132.11	61.84	103.01	-15.45	183.10
	12.65	70.77	33.24	55.18	-7.93	98.09
		0.00	0.49	0.00	0.24	0.00
3.80	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.63	69.96	32.43	54.57	-9.17	96.95
	22.13	130.58	60.75	101.86	-16.49	180.97
	31.01	181.89	84.71	141.88	-22.68	252.07
	38.28	223.86	104.31	174.62	-27.74	310.24
	43.94	256.50	119.56	200.09	-31.68	355.48
	47.98	279.82	130.45	218.28	-34.50	387.80
	50.40	293.81	136.99	229.19	-36.19	407.19
	51.38	293.81	137.48	229.19	-34.72	407.19
	48.96	279.82	130.94	218.28	-33.03	387.80
	44.92	256.50	120.05	200.09	-30.22	355.48
	39.26	223.86	104.80	174.62	-26.28	310.24
	31.99	181.89	85.20	141.88	-21.21	252.07
	23.11	130.58	61.24	101.86	-15.02	180.97
	12.61	69.96	32.92	54.57	-7.71	96.95
		0.00	0.49	0.00	0.24	0.00
3.85	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.58	69.16	32.12	53.97	-8.95	95.84
	22.04	129.10	60.16	100.75	-16.08	178.90
	30.89	179.81	83.89	140.33	-22.11	249.18
	38.14	221.31	103.31	172.71	-27.04	306.69
	43.77	253.58	118.41	197.90	-30.88	351.41
	47.79	276.63	129.20	215.89	-33.62	383.36
	50.21	290.46	135.67	226.68	-35.26	402.53
	51.18	290.46	136.16	226.68	-33.79	402.53
	48.77	276.63	129.69	215.89	-32.15	383.36
	44.75	253.58	118.90	197.90	-29.41	351.41
	39.11	221.31	103.80	172.71	-25.57	306.69

	31.87	179.81	84.38	140.33	-20.64	249.18	
	23.02	129.10	60.65	100.75	-14.61	178.90	
	12.56	69.16	32.61	53.97	-7.49	95.84	
	0.00	0.49	0.00	0.24	0.00	0.73	
3.90	-0.49	0.00	-0.24	0.00	-0.73	0.00	
	12.00	68.84	32.27	53.85	-8.28	95.38	
	22.81	128.50	60.45	100.52	-14.82	178.04	
	31.97	178.98	84.29	140.01	-20.35	247.98	
	39.46	220.29	103.80	172.32	-24.88	305.21	
	45.29	252.41	118.98	197.45	-28.40	349.72	
	49.45	275.36	129.81	215.40	-30.92	381.51	
	51.94	289.13	136.32	226.16	-32.43	400.59	
	52.92	289.13	136.81	226.16	-30.96	400.59	
	50.42	275.36	130.30	215.40	-29.45	381.51	
	46.26	252.41	119.46	197.45	-26.94	349.72	
	40.44	220.29	104.29	172.32	-23.42	305.21	
	32.95	178.98	84.78	140.01	-18.89	247.98	
	23.79	128.50	60.94	100.52	-13.35	178.04	
	12.97	68.84	32.76	53.85	-6.81	95.38	
	0.00	0.49	0.00	0.24	0.00	0.73	
	3.95	-0.49	0.00	-0.24	0.00	-0.73	0.00
		11.95	68.08	31.97	53.28	-8.07	94.32
22.73		127.09	59.89	99.46	-14.43	176.07	
31.85		177.01	83.52	138.53	-19.81	245.24	
39.32		217.86	102.85	170.50	-24.22	301.84	
45.12		249.63	117.88	195.36	-27.64	345.85	
49.27		272.33	128.62	213.12	-30.09	377.29	
51.75		285.94	135.06	223.78	-31.55	396.16	
52.73		285.94	135.55	223.78	-30.09	396.16	
50.24		272.33	129.11	213.12	-28.62	377.29	
46.10		249.63	118.37	195.36	-26.17	345.85	
40.29		217.86	103.34	170.50	-22.75	301.84	
32.83		177.01	84.01	138.53	-18.35	245.24	
23.71		127.09	60.38	99.46	-12.96	176.07	
12.93		68.08	32.46	53.28	-6.60	94.32	
0.00	0.49	0.00	0.24	0.00	0.73		
4.00	-0.49	0.00	-0.24	0.00	-0.73	0.00	
	11.91	67.34	31.68	52.73	-7.87	93.30	
	22.65	125.71	59.35	98.42	-14.05	174.15	
	31.74	175.09	82.76	137.09	-19.28	242.57	
	39.18	215.50	101.92	168.72	-23.56	298.55	
	44.96	246.92	116.81	193.33	-26.89	342.08	
	49.09	269.37	127.46	210.90	-29.27	373.18	
	51.57	282.84	133.84	221.45	-30.70	391.84	
	52.55	282.84	134.33	221.45	-29.23	391.84	

	50.07	269.37	127.95	210.90	-27.81	373.18
	45.94	246.92	117.30	193.33	-25.43	342.08
	40.15	215.50	102.41	168.72	-22.10	298.55
	32.72	175.09	83.25	137.09	-17.82	242.57
	23.63	125.71	59.84	98.42	-12.58	174.15
	12.88	67.34	32.17	52.73	-6.40	93.30
	0.00	0.49	0.00	0.24	0.00	0.73
4.05	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.86	66.62	31.40	52.19	-7.67	92.29
	22.57	124.36	58.82	97.41	-13.68	172.28
	31.63	173.22	82.02	135.68	-18.77	239.96
	39.04	213.19	101.01	166.99	-22.93	295.34
	44.81	244.28	115.78	191.35	-26.16	338.41
	48.92	266.49	126.32	208.74	-28.48	369.17
	51.39	279.81	132.65	219.18	-29.86	387.63
	52.37	279.81	133.14	219.18	-28.40	387.63
	49.90	266.49	126.81	208.74	-27.01	369.17
	45.78	244.28	116.26	191.35	-24.70	338.41
	40.02	213.19	101.50	166.99	-21.46	295.34
	32.61	173.22	82.51	135.68	-17.30	239.96
	23.55	124.36	59.31	97.41	-12.21	172.28
	12.84	66.62	31.89	52.19	-6.20	92.29
	0.00	0.49	0.00	0.24	0.00	0.73
4.10	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.86	65.96	31.16	51.70	-7.44	91.37
	22.56	123.12	58.37	96.50	-13.25	170.55
	31.62	171.49	81.40	134.41	-18.16	237.55
	39.03	211.06	100.25	165.43	-22.19	292.37
	44.79	241.84	114.90	189.55	-25.31	335.01
	48.91	263.83	125.37	206.79	-27.55	365.47
	51.38	277.02	131.65	217.13	-28.89	383.74
	52.36	277.02	132.14	217.13	-27.42	383.74
	49.89	263.83	125.86	206.79	-26.08	365.47
	45.77	241.84	115.39	189.55	-23.85	335.01
	40.01	211.06	100.73	165.43	-20.72	292.37
	32.60	171.49	81.89	134.41	-16.70	237.55
	23.54	123.12	58.86	96.50	-11.78	170.55
	12.84	65.96	31.65	51.70	-5.97	91.37
	0.00	0.49	0.00	0.24	0.00	0.73
4.15	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.82	65.27	30.89	51.18	-7.25	90.41
	22.49	121.84	57.87	95.54	-12.89	168.77
	31.52	169.70	80.70	133.07	-17.67	235.07
	38.90	208.87	99.38	163.78	-21.58	289.32
	44.65	239.33	113.91	187.67	-24.62	331.51

	48.75	261.08	124.29	204.73	-26.79	361.65
	51.21	274.14	130.52	214.97	-28.09	379.73
	52.19	274.14	131.00	214.97	-26.63	379.73
	49.73	261.08	124.78	204.73	-25.33	361.65
	45.62	239.33	114.40	187.67	-23.15	331.51
	39.88	208.87	99.87	163.78	-20.11	289.32
	32.49	169.70	81.19	133.07	-16.20	235.07
	23.47	121.84	58.36	95.54	-11.43	168.77
	12.80	65.27	31.38	51.18	-5.78	90.41
	0.00	0.49	0.00	0.24	0.00	0.73
4.20	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.78	64.60	30.63	50.68	-7.06	89.48
	22.42	120.59	57.38	94.60	-12.55	167.03
	31.41	167.96	80.02	131.77	-17.19	232.65
	38.78	206.72	98.54	162.18	-20.99	286.34
	44.50	236.87	112.95	185.83	-23.94	328.10
	48.59	258.40	123.24	202.72	-26.05	357.92
	51.05	271.32	129.41	212.86	-27.32	375.82
	52.02	271.32	129.90	212.86	-25.85	375.82
	49.57	258.40	123.73	202.72	-24.59	357.92
	45.48	236.87	113.44	185.83	-22.48	328.10
	39.75	206.72	99.03	162.18	-19.52	286.34
	32.39	167.96	80.51	131.77	-15.72	232.65
	23.39	120.59	57.87	94.60	-11.08	167.03
	12.76	64.60	31.11	50.68	-5.60	89.48
	0.00	0.49	0.00	0.24	0.00	0.73
4.25	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.74	63.95	30.37	50.19	-6.88	88.57
	22.34	119.37	56.90	93.69	-12.21	165.33
	31.31	166.26	79.35	130.50	-16.72	230.29
	38.65	204.63	97.72	160.61	-20.41	283.43
	44.36	234.47	112.00	184.03	-23.28	324.76
	48.44	255.79	122.21	200.76	-25.33	354.29
	50.89	268.58	128.33	210.80	-26.56	372.00
	51.86	268.58	128.82	210.80	-25.09	372.00
	49.42	255.79	122.70	200.76	-23.86	354.29
	45.34	234.47	112.49	184.03	-21.81	324.76
	39.63	204.63	98.21	160.61	-18.94	283.43
	32.29	166.26	79.84	130.50	-15.25	230.29
	23.32	119.37	57.39	93.69	-10.74	165.33
	12.72	63.95	30.86	50.19	-5.42	88.57
	0.00	0.49	0.00	0.24	0.00	0.73
4.30	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.71	63.31	30.12	49.71	-6.71	87.68
	22.28	118.18	56.43	92.80	-11.88	163.68

	31.22	164.60	78.70	129.25	-16.26	227.98
	38.54	202.59	96.92	159.08	-19.84	280.59
	44.23	232.13	111.08	182.28	-22.63	321.51
	48.29	253.24	121.21	198.85	-24.62	350.73
	50.73	265.90	127.28	208.79	-25.82	368.27
	51.71	265.90	127.77	208.79	-24.35	368.27
	49.27	253.24	121.69	198.85	-23.16	350.73
	45.20	232.13	111.57	182.28	-21.16	321.51
	39.51	202.59	97.40	159.08	-18.38	280.59
	32.20	164.60	79.19	129.25	-14.79	227.98
	23.25	118.18	56.92	92.80	-10.41	163.68
	12.68	63.31	30.61	49.71	-5.24	87.68
	0.00	0.49	0.00	0.24	0.00	0.73
4.35	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.67	62.69	29.87	49.24	-6.53	86.82
	22.21	117.01	55.98	91.92	-11.56	162.06
	31.12	162.98	78.06	128.04	-15.81	225.72
	38.42	200.59	96.13	157.58	-19.29	277.81
	44.09	229.85	110.19	180.56	-22.00	318.33
	48.15	250.74	120.23	196.98	-23.93	347.27
	50.58	263.28	126.25	206.83	-25.09	364.63
	51.56	263.28	126.74	206.83	-23.62	364.63
	49.12	250.74	120.71	196.98	-22.46	347.27
	45.07	229.85	110.68	180.56	-20.53	318.33
	39.40	200.59	96.62	157.58	-17.83	277.81
	32.10	162.98	78.55	128.04	-14.35	225.72
	23.19	117.01	56.46	91.92	-10.09	162.06
	12.65	62.69	30.36	49.24	-5.07	86.82
0.00	0.49	0.00	0.24	0.00	0.73	
4.40	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.64	62.08	29.63	48.79	-6.36	85.97
	22.14	115.87	55.53	91.07	-11.24	160.48
	31.03	161.40	77.44	126.85	-15.37	223.52
	38.31	198.64	95.37	156.12	-18.75	275.10
	43.97	227.61	109.31	178.89	-21.38	315.22
	48.01	248.30	119.27	195.15	-23.26	343.88
	50.43	260.72	125.24	204.91	-24.38	361.07
	51.41	260.72	125.73	204.91	-22.92	361.07
	48.98	248.30	119.76	195.15	-21.79	343.88
	44.94	227.61	109.80	178.89	-19.91	315.22
	39.29	198.64	95.86	156.12	-17.28	275.10
	32.01	161.40	77.93	126.85	-13.91	223.52
	23.12	115.87	56.02	91.07	-9.78	160.48
	12.61	62.08	30.12	48.79	-4.90	85.97
0.00	0.49	0.00	0.24	0.00	0.73	

4.45	-0.49	0.00	-0.24	0.00	-0.73	0.00
	11.60	61.48	29.40	48.34	-6.20	85.14
	22.08	114.76	55.09	90.24	-10.94	158.93
	30.94	159.85	76.83	125.69	-14.94	221.37
	38.20	196.74	94.62	154.69	-18.22	272.45
	43.84	225.43	108.45	177.25	-20.77	312.18
	47.87	245.92	118.33	193.37	-22.59	340.56
	50.29	258.22	124.26	203.04	-23.69	357.59
	51.27	258.22	124.75	203.04	-22.22	357.59
	48.85	245.92	118.82	193.37	-21.13	340.56
	44.82	225.43	108.94	177.25	-19.31	312.18
	39.18	196.74	95.11	154.69	-16.76	272.45
	31.92	159.85	77.32	125.69	-13.48	221.37
	23.06	114.76	55.58	90.24	-9.47	158.93
	12.58	61.48	29.89	48.34	-4.73	85.14
	0.00	0.49	0.00	0.24	0.00	0.73
4.50	-0.49	0.00	-0.24	0.00	-0.73	0.00
	12.05	61.38	29.66	48.39	-5.55	84.99
	22.92	114.58	55.57	90.33	-9.73	158.64
	32.12	159.60	77.50	125.82	-13.26	220.96
	39.64	196.43	95.44	154.85	-16.15	271.96
	45.50	225.07	109.40	177.44	-18.40	311.62
	49.68	245.53	119.36	193.57	-20.01	339.95
	52.19	257.81	125.34	203.24	-20.97	356.94
	53.16	257.81	125.83	203.24	-19.50	356.94
	50.66	245.53	119.85	193.57	-18.54	339.95
	46.48	225.07	109.88	177.44	-16.93	311.62
	40.62	196.43	95.93	154.85	-14.68	271.96
	33.10	159.60	77.99	125.82	-11.79	220.96
	23.90	114.58	56.06	90.33	-8.26	158.64
	13.03	61.38	30.15	48.39	-4.08	84.99
	0.00	0.49	0.00	0.24	0.00	0.73

En la Tabla 19 se muestran las combinaciones de esfuerzos para los montantes en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 19. . Combinación de esfuerzos de los montantes - 16 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)
0.50	1.51	9.45	4.33	7.34	-1.31	13.11
	-122.90	-19.90	-95.43	-56.47	-170.40	16.68
	-103.99	-16.88	-80.75	-47.80	-144.18	14.05
	-85.09	-13.86	-66.07	-39.14	-117.97	11.42

	-66.18	-10.84	-51.39	-30.47	-91.75	8.80
	-47.27	-7.82	-36.70	-21.80	-65.54	6.17
	-28.36	-4.80	-22.02	-13.13	-39.32	3.54
	-9.45	-1.78	-7.34	-4.47	-13.11	0.92
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.45	-1.25	-7.34	-4.20	-13.11	1.71
	-28.36	-4.27	-22.02	-12.87	-39.32	4.34
	-47.27	-7.29	-36.70	-21.54	-65.54	6.96
	-66.18	-10.31	-51.39	-30.20	-91.75	9.59
	-85.09	-13.33	-66.07	-38.87	-117.97	12.22
	-103.99	-16.35	-80.75	-47.54	-144.18	14.84
	-122.90	-19.37	-95.43	-56.20	-170.40	17.47
	1.51	9.45	4.33	7.34	-1.31	13.11
0.55	1.36	9.30	4.18	7.19	-1.47	12.90
	-120.92	-17.94	-93.45	-54.50	-167.72	18.62
	-102.32	-15.23	-79.07	-46.14	-141.92	15.69
	-83.71	-12.51	-64.70	-37.78	-116.11	12.76
	-65.11	-9.80	-50.32	-29.41	-90.31	9.82
	-46.51	-7.08	-35.94	-21.05	-64.51	6.89
	-27.90	-4.36	-21.57	-12.69	-38.70	3.96
	-9.30	-1.65	-7.19	-4.33	-12.90	1.03
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.30	-1.07	-7.19	-4.04	-12.90	1.90
	-27.90	-3.78	-21.57	-12.40	-38.70	4.83
	-46.51	-6.50	-35.94	-20.76	-64.51	7.77
	-65.11	-9.21	-50.32	-29.12	-90.31	10.70
	-83.71	-11.93	-64.70	-37.48	-116.11	13.63
	-102.32	-14.64	-79.07	-45.85	-141.92	16.56
	-120.92	-17.36	-93.45	-54.21	-167.72	19.49
	1.36	9.30	4.18	7.19	-1.47	12.90
0.60	1.27	9.22	4.10	7.10	-1.55	12.79
	-119.83	-16.88	-92.36	-53.43	-166.25	19.67
	-101.40	-14.33	-78.15	-45.23	-140.67	16.57
	-82.96	-11.78	-63.94	-37.04	-115.10	13.47
	-64.52	-9.24	-49.73	-28.84	-89.52	10.37
	-46.09	-6.69	-35.52	-20.65	-63.94	7.27
	-27.65	-4.14	-21.31	-12.45	-38.37	4.17
	-9.22	-1.59	-7.10	-4.26	-12.79	1.07
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.22	-0.96	-7.10	-3.94	-12.79	2.03
	-27.65	-3.50	-21.31	-12.13	-38.37	5.13
	-46.09	-6.05	-35.52	-20.33	-63.94	8.22
	-64.52	-8.60	-49.73	-28.52	-89.52	11.32
	-82.96	-11.15	-63.94	-36.72	-115.10	14.42
	-101.40	-13.70	-78.15	-44.91	-140.67	17.52

	-119.83	-16.24	-92.36	-53.11	-166.25	20.62
	1.27	9.22	4.10	7.10	-1.55	12.79
0.65	1.16	9.10	3.98	6.99	-1.67	12.63
	-118.31	-15.39	-90.84	-51.92	-164.20	21.15
	-100.11	-13.07	-76.86	-43.96	-138.94	17.81
	-81.91	-10.76	-62.89	-36.00	-113.68	14.48
	-63.71	-8.44	-48.91	-28.04	-88.41	11.15
	-45.50	-6.13	-34.94	-20.07	-63.15	7.82
	-27.30	-3.82	-20.96	-12.11	-37.89	4.48
	-9.10	-1.50	-6.99	-4.15	-12.63	1.15
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.10	-0.81	-6.99	-3.81	-12.63	2.18
	-27.30	-3.13	-20.96	-11.77	-37.89	5.52
	-45.50	-5.44	-34.94	-19.73	-63.15	8.85
	-63.71	-7.75	-48.91	-27.69	-88.41	12.18
	-81.91	-10.07	-62.89	-35.65	-113.68	15.52
	-100.11	-12.38	-76.86	-43.61	-138.94	18.85
	-118.31	-14.70	-90.84	-51.57	-164.20	22.18
	1.16	9.10	3.98	6.99	-1.67	12.63
0.70	1.08	9.02	3.90	6.91	-1.75	12.52
	-117.25	-14.35	-89.78	-50.87	-162.77	22.17
	-99.21	-12.20	-75.97	-43.07	-137.73	18.67
	-81.17	-10.05	-62.15	-35.28	-112.68	15.18
	-63.13	-7.90	-48.34	-27.48	-87.64	11.68
	-45.10	-5.75	-34.53	-19.68	-62.60	8.18
	-27.06	-3.60	-20.72	-11.88	-37.56	4.69
	-9.02	-1.45	-6.91	-4.08	-12.52	1.19
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.02	-0.70	-6.91	-3.71	-12.52	2.30
	-27.06	-2.86	-20.72	-11.51	-37.56	5.80
	-45.10	-5.01	-34.53	-19.31	-62.60	9.30
	-63.13	-7.16	-48.34	-27.11	-87.64	12.79
	-81.17	-9.31	-62.15	-34.90	-112.68	16.29
	-99.21	-11.46	-75.97	-42.70	-137.73	19.79
	-117.25	-13.61	-89.78	-50.50	-162.77	23.28
	1.08	9.02	3.90	6.91	-1.75	12.52
0.75	1.04	8.98	3.86	6.87	-1.78	12.47
	-116.78	-13.91	-89.31	-50.41	-162.13	22.60
	-98.81	-11.83	-75.57	-42.69	-137.19	19.03
	-80.85	-9.75	-61.83	-34.96	-112.24	15.46
	-62.88	-7.67	-48.09	-27.24	-87.30	11.89
	-44.91	-5.59	-34.35	-19.51	-62.36	8.33
	-26.95	-3.51	-20.61	-11.79	-37.41	4.76
	-8.98	-1.44	-6.87	-4.06	-12.47	1.19
	0.00	0.00	0.00	0.00	0.00	0.00

	-8.98	-0.64	-6.87	-3.66	-12.47	2.38
	-26.95	-2.72	-20.61	-11.39	-37.41	5.95
	-44.91	-4.80	-34.35	-19.11	-62.36	9.52
	-62.88	-6.88	-48.09	-26.84	-87.30	13.09
	-80.85	-8.95	-61.83	-34.56	-112.24	16.66
	-98.81	-11.03	-75.57	-42.29	-137.19	20.22
	-116.78	-13.11	-89.31	-50.01	-162.13	23.79
	1.04	8.98	3.86	6.87	-1.78	12.47
0.80	0.97	8.91	3.79	6.80	-1.86	12.37
	-115.83	-12.99	-88.36	-49.48	-160.85	23.51
	-98.01	-11.05	-74.77	-41.90	-136.10	19.79
	-80.19	-9.12	-61.17	-34.32	-111.36	16.08
	-62.37	-7.19	-47.58	-26.74	-86.61	12.36
	-44.55	-5.26	-33.98	-19.16	-61.87	8.65
	-26.73	-3.32	-20.39	-11.58	-37.12	4.94
	-8.91	-1.39	-6.80	-4.00	-12.37	1.22
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.91	-0.54	-6.80	-3.58	-12.37	2.49
	-26.73	-2.47	-20.39	-11.16	-37.12	6.21
	-44.55	-4.41	-33.98	-18.74	-61.87	9.92
	-62.37	-6.34	-47.58	-26.32	-86.61	13.64
	-80.19	-8.27	-61.17	-33.90	-111.36	17.35
	-98.01	-10.20	-74.77	-41.48	-136.10	21.07
	-115.83	-12.14	-88.36	-49.05	-160.85	24.78
0.97	8.91	3.79	6.80	-1.86	12.37	
0.85	0.98	8.92	3.80	6.81	-1.85	12.39
	-115.96	-13.14	-88.49	-49.62	-161.02	23.34
	-98.12	-11.19	-74.87	-42.02	-136.25	19.65
	-80.28	-9.23	-61.26	-34.42	-111.48	15.95
	-62.44	-7.28	-47.65	-26.82	-86.70	12.26
	-44.60	-5.33	-34.03	-19.22	-61.93	8.56
	-26.76	-3.38	-20.42	-11.62	-37.16	4.87
	-8.92	-1.43	-6.81	-4.02	-12.39	1.17
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.92	-0.53	-6.81	-3.57	-12.39	2.52
	-26.76	-2.48	-20.42	-11.17	-37.16	6.22
	-44.60	-4.43	-34.03	-18.77	-61.93	9.91
	-62.44	-6.38	-47.65	-26.37	-86.70	13.61
	-80.28	-8.33	-61.26	-33.97	-111.48	17.30
	-98.12	-10.29	-74.87	-41.57	-136.25	21.00
	-115.96	-12.24	-88.49	-49.17	-161.02	24.69
0.98	8.92	3.80	6.81	-1.85	12.39	
0.90	0.93	8.87	3.75	6.76	-1.89	12.33
	-115.37	-12.58	-87.90	-49.04	-160.23	23.89
	-97.62	-10.72	-74.38	-41.54	-135.58	20.10

	-79.87	-8.85	-60.85	-34.03	-110.93	16.32
	-62.12	-6.99	-47.33	-26.52	-86.28	12.53
	-44.37	-5.13	-33.81	-19.01	-61.63	8.75
	-26.62	-3.27	-20.28	-11.50	-36.98	4.96
	-8.87	-1.41	-6.76	-3.99	-12.33	1.18
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.87	-0.45	-6.76	-3.52	-12.33	2.61
	-26.62	-2.32	-20.28	-11.02	-36.98	6.39
	-44.37	-4.18	-33.81	-18.53	-61.63	10.18
	-62.12	-6.04	-47.33	-26.04	-86.28	13.96
	-79.87	-7.90	-60.85	-33.55	-110.93	17.75
	-97.62	-9.76	-74.38	-41.06	-135.58	21.54
	-115.37	-11.62	-87.90	-48.57	-160.23	25.32
	0.93	8.87	3.75	6.76	-1.89	12.33
0.95	0.94	8.88	3.76	6.77	-1.89	12.34
	-115.47	-12.70	-88.00	-49.15	-160.36	23.75
	-97.70	-10.82	-74.46	-41.63	-135.69	19.98
	-79.94	-8.95	-60.92	-34.11	-111.02	16.21
	-62.17	-7.07	-47.38	-26.58	-86.35	12.44
	-44.41	-5.19	-33.84	-19.06	-61.68	8.67
	-26.65	-3.32	-20.31	-11.54	-37.01	4.90
	-8.88	-1.44	-6.77	-4.01	-12.34	1.13
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.88	-0.43	-6.77	-3.51	-12.34	2.64
	-26.65	-2.31	-20.31	-11.03	-37.01	6.41
	-44.41	-4.19	-33.84	-18.56	-61.68	10.18
	-62.17	-6.06	-47.38	-26.08	-86.35	13.95
	-79.94	-7.94	-60.92	-33.60	-111.02	17.72
	-97.70	-9.82	-74.46	-41.13	-135.69	21.49
	-115.47	-11.69	-88.00	-48.65	-160.36	25.26
	0.94	8.88	3.76	6.77	-1.89	12.34
1.00	0.89	8.84	3.72	6.72	-1.93	12.27
	-114.88	-12.14	-87.41	-48.58	-159.57	24.30
	-97.21	-10.36	-73.96	-41.15	-135.02	20.44
	-79.53	-8.57	-60.52	-33.72	-110.47	16.58
	-61.86	-6.78	-47.07	-26.28	-85.92	12.72
	-44.19	-5.00	-33.62	-18.85	-61.37	8.86
	-26.51	-3.21	-20.17	-11.42	-36.82	5.00
	-8.84	-1.42	-6.72	-3.98	-12.27	1.14
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.84	-0.36	-6.72	-3.45	-12.27	2.73
	-26.51	-2.15	-20.17	-10.89	-36.82	6.59
	-44.19	-3.94	-33.62	-18.32	-61.37	10.45
	-61.86	-5.72	-47.07	-25.75	-85.92	14.31
	-79.53	-7.51	-60.52	-33.19	-110.47	18.17

	-97.21	-9.30	-73.96	-40.62	-135.02	22.03
	-114.88	-11.08	-87.41	-48.05	-159.57	25.89
	0.89	8.84	3.72	6.72	-1.93	12.27
1.05	0.90	8.85	3.73	6.73	-1.92	12.29
	-115.02	-12.30	-87.55	-48.73	-159.75	24.12
	-97.32	-10.50	-74.08	-41.28	-135.17	20.28
	-79.63	-8.69	-60.61	-33.82	-110.60	16.44
	-61.93	-6.88	-47.14	-26.37	-86.02	12.60
	-44.24	-5.07	-33.67	-18.91	-61.44	8.77
	-26.54	-3.27	-20.20	-11.46	-36.87	4.93
	-8.85	-1.46	-6.73	-4.01	-12.29	1.09
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.85	-0.35	-6.73	-3.45	-12.29	2.75
	-26.54	-2.15	-20.20	-10.90	-36.87	6.59
	-44.24	-3.96	-33.67	-18.36	-61.44	10.43
	-61.93	-5.77	-47.14	-25.81	-86.02	14.27
	-79.63	-7.58	-60.61	-33.26	-110.60	18.11
	-97.32	-9.38	-74.08	-40.72	-135.17	21.95
	-115.02	-11.19	-87.55	-48.17	-159.75	25.79
	0.90	8.85	3.73	6.73	-1.92	12.29
	1.10	0.91	8.85	3.73	6.74	-1.91
-115.09		-12.40	-87.62	-48.82	-159.85	24.01
-97.39		-10.59	-74.14	-41.35	-135.26	20.18
-79.68		-8.77	-60.66	-33.89	-110.67	16.35
-61.97		-6.95	-47.18	-26.42	-86.07	12.52
-44.27		-5.13	-33.70	-18.96	-61.48	8.70
-26.56		-3.31	-20.22	-11.49	-36.89	4.87
-8.85		-1.49	-6.74	-4.02	-12.30	1.04
0.00		0.00	0.00	0.00	0.00	0.00
-8.85		-0.33	-6.74	-3.44	-12.30	2.79
-26.56		-2.15	-20.22	-10.91	-36.89	6.62
-44.27		-3.96	-33.70	-18.37	-61.48	10.45
-61.97		-5.78	-47.18	-25.84	-86.07	14.27
-79.68		-7.60	-60.66	-33.30	-110.67	18.10
-97.39		-9.42	-74.14	-40.77	-135.26	21.93
-115.09		-11.24	-87.62	-48.24	-159.85	25.76
0.91		8.85	3.73	6.74	-1.91	12.30
1.15		0.92	8.86	3.74	6.75	-1.90
	-115.23	-12.57	-87.76	-48.97	-160.04	23.83
	-97.50	-10.73	-74.26	-41.48	-135.42	20.02
	-79.77	-8.89	-60.76	-34.00	-110.80	16.22
	-62.05	-7.05	-47.25	-26.51	-86.17	12.41
	-44.32	-5.21	-33.75	-19.02	-61.55	8.60
	-26.59	-3.37	-20.25	-11.53	-36.93	4.80
	-8.86	-1.53	-6.75	-4.05	-12.31	0.99

	0.00	0.00	0.00	0.00	0.00	0.00
	-8.86	-0.31	-6.75	-3.44	-12.31	2.82
	-26.59	-2.15	-20.25	-10.93	-36.93	6.62
	-44.32	-3.99	-33.75	-18.41	-61.55	10.43
	-62.05	-5.83	-47.25	-25.90	-86.17	14.24
	-79.77	-7.67	-60.76	-33.39	-110.80	18.05
	-97.50	-9.51	-74.26	-40.87	-135.42	21.85
	-115.23	-11.35	-87.76	-48.36	-160.04	25.66
	0.92	8.86	3.74	6.75	-1.90	12.31
1.20	0.85	8.80	3.68	6.68	-1.97	12.22
	-114.35	-11.72	-86.88	-48.11	-158.86	24.67
	-96.76	-10.02	-73.52	-40.76	-134.42	20.73
	-79.17	-8.31	-60.15	-33.40	-109.98	16.78
	-61.58	-6.60	-46.78	-26.05	-85.54	12.84
	-43.98	-4.90	-33.42	-18.70	-61.10	8.90
	-26.39	-3.19	-20.05	-11.35	-36.66	4.96
	-8.80	-1.49	-6.68	-3.99	-12.22	1.02
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.80	-0.22	-6.68	-3.36	-12.22	2.92
	-26.39	-1.92	-20.05	-10.71	-36.66	6.87
	-43.98	-3.63	-33.42	-18.06	-61.10	10.81
	-61.58	-5.33	-46.78	-25.41	-85.54	14.75
	-79.17	-7.04	-60.15	-32.77	-109.98	18.69
	-96.76	-8.74	-73.52	-40.12	-134.42	22.63
	-114.35	-10.45	-86.88	-47.47	-158.86	26.57
0.85	8.80	3.68	6.68	-1.97	12.22	
1.25	0.86	8.81	3.69	6.69	-1.96	12.23
	-114.49	-11.88	-87.02	-48.26	-159.04	24.49
	-96.88	-10.16	-73.63	-40.88	-134.57	20.57
	-79.26	-8.43	-60.24	-33.51	-110.11	16.65
	-61.65	-6.70	-46.86	-26.14	-85.64	12.73
	-44.03	-4.98	-33.47	-18.76	-61.17	8.81
	-26.42	-3.25	-20.08	-11.39	-36.70	4.89
	-8.81	-1.53	-6.69	-4.02	-12.23	0.97
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.81	-0.20	-6.69	-3.36	-12.23	2.95
	-26.42	-1.93	-20.08	-10.73	-36.70	6.87
	-44.03	-3.65	-33.47	-18.10	-61.17	10.80
	-61.65	-5.38	-46.86	-25.47	-85.64	14.72
	-79.26	-7.11	-60.24	-32.85	-110.11	18.64
	-96.88	-8.83	-73.63	-40.22	-134.57	22.56
	-114.49	-10.56	-87.02	-47.59	-159.04	26.48
0.86	8.81	3.69	6.69	-1.96	12.23	
1.30	0.87	8.82	3.70	6.70	-1.95	12.25
	-114.63	-12.05	-87.16	-48.41	-159.23	24.31

	-96.99	-10.30	-73.75	-41.01	-134.73	20.41
	-79.36	-8.55	-60.34	-33.62	-110.23	16.51
	-61.72	-6.80	-46.93	-26.22	-85.74	12.62
	-44.09	-5.06	-33.52	-18.83	-61.24	8.72
	-26.45	-3.31	-20.11	-11.44	-36.74	4.82
	-8.82	-1.56	-6.70	-4.04	-12.25	0.92
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.82	-0.18	-6.70	-3.35	-12.25	2.98
	-26.45	-1.93	-20.11	-10.75	-36.74	6.88
	-44.09	-3.68	-33.52	-18.14	-61.24	10.78
	-61.72	-5.43	-46.93	-25.54	-85.74	14.68
	-79.36	-7.17	-60.34	-32.93	-110.23	18.58
	-96.99	-8.92	-73.75	-40.32	-134.73	22.48
	-114.63	-10.67	-87.16	-47.72	-159.23	26.38
	0.87	8.82	3.70	6.70	-1.95	12.25
1.35	0.88	8.82	3.70	6.71	-1.95	12.25
	-114.65	-12.09	-87.18	-48.44	-159.25	24.26
	-97.01	-10.34	-73.76	-41.04	-134.75	20.36
	-79.37	-8.59	-60.35	-33.65	-110.25	16.46
	-61.73	-6.84	-46.94	-26.25	-85.75	12.57
	-44.09	-5.09	-33.53	-18.85	-61.25	8.67
	-26.46	-3.34	-20.12	-11.45	-36.75	4.77
	-8.82	-1.59	-6.71	-4.06	-12.25	0.88
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.82	-0.16	-6.71	-3.34	-12.25	3.02
	-26.46	-1.91	-20.12	-10.74	-36.75	6.92
	-44.09	-3.66	-33.53	-18.14	-61.25	10.82
	-61.73	-5.41	-46.94	-25.53	-85.75	14.71
	-79.37	-7.16	-60.35	-32.93	-110.25	18.61
	-97.01	-8.91	-73.76	-40.33	-134.75	22.51
	-114.65	-10.66	-87.18	-47.72	-159.25	26.40
	0.88	8.82	3.70	6.71	-1.95	12.25
1.40	0.89	8.83	3.71	6.72	-1.94	12.26
	-114.79	-12.26	-87.32	-48.59	-159.44	24.08
	-97.13	-10.49	-73.88	-41.17	-134.91	20.20
	-79.47	-8.72	-60.45	-33.76	-110.38	16.33
	-61.81	-6.94	-47.02	-26.34	-85.85	12.45
	-44.15	-5.17	-33.58	-18.92	-61.32	8.57
	-26.49	-3.40	-20.15	-11.50	-36.79	4.70
	-8.83	-1.63	-6.72	-4.08	-12.26	0.82
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.83	-0.14	-6.72	-3.34	-12.26	3.05
	-26.49	-1.92	-20.15	-10.76	-36.79	6.93
	-44.15	-3.69	-33.58	-18.18	-61.32	10.80
	-61.81	-5.46	-47.02	-25.59	-85.85	14.68

	-79.47	-7.23	-60.45	-33.01	-110.38	18.55
	-97.13	-9.00	-73.88	-40.43	-134.91	22.43
	-114.79	-10.77	-87.32	-47.85	-159.44	26.30
	0.89	8.83	3.71	6.72	-1.94	12.26
1.45	0.90	8.84	3.72	6.73	-1.93	12.28
	-114.93	-12.43	-87.46	-48.75	-159.63	23.89
	-97.25	-10.63	-74.00	-41.31	-135.07	20.04
	-79.57	-8.84	-60.55	-33.87	-110.51	16.19
	-61.88	-7.05	-47.09	-26.43	-85.96	12.33
	-44.20	-5.25	-33.64	-18.99	-61.40	8.48
	-26.52	-3.46	-20.18	-11.54	-36.84	4.63
	-8.84	-1.67	-6.73	-4.10	-12.28	0.77
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.84	-0.13	-6.73	-3.34	-12.28	3.08
	-26.52	-1.92	-20.18	-10.78	-36.84	6.93
	-44.20	-3.72	-33.64	-18.22	-61.40	10.79
	-61.88	-5.51	-47.09	-25.66	-85.96	14.64
	-79.57	-7.30	-60.55	-33.10	-110.51	18.49
	-97.25	-9.10	-74.00	-40.54	-135.07	22.35
	-114.93	-10.89	-87.46	-47.98	-159.63	26.20
	0.90	8.84	3.72	6.73	-1.93	12.28
1.50	0.86	8.81	3.69	6.69	-1.96	12.23
	-114.47	-12.00	-87.00	-48.31	-159.02	24.31
	-96.86	-10.27	-73.62	-40.94	-134.55	20.39
	-79.25	-8.55	-60.23	-33.56	-110.09	16.46
	-61.64	-6.83	-46.85	-26.19	-85.62	12.54
	-44.03	-5.10	-33.46	-18.82	-61.16	8.62
	-26.42	-3.38	-20.08	-11.45	-36.70	4.69
	-8.81	-1.66	-6.69	-4.08	-12.23	0.77
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.81	-0.07	-6.69	-3.29	-12.23	3.15
	-26.42	-1.79	-20.08	-10.66	-36.70	7.08
	-44.03	-3.51	-33.46	-18.03	-61.16	11.00
	-61.64	-5.24	-46.85	-25.40	-85.62	14.92
	-79.25	-6.96	-60.23	-32.77	-110.09	18.85
	-96.86	-8.68	-73.62	-40.14	-134.55	22.77
	-114.47	-10.41	-87.00	-47.51	-159.02	26.70
	0.86	8.81	3.69	6.69	-1.96	12.23
1.55	0.87	8.82	3.70	6.70	-1.95	12.25
	-114.62	-12.17	-87.15	-48.46	-159.21	24.13
	-96.98	-10.42	-73.74	-41.07	-134.72	20.23
	-79.35	-8.68	-60.33	-33.68	-110.22	16.32
	-61.72	-6.93	-46.92	-26.28	-85.73	12.42
	-44.08	-5.19	-33.52	-18.89	-61.23	8.52
	-26.45	-3.44	-20.11	-11.50	-36.74	4.62

	-8.82	-1.69	-6.70	-4.11	-12.25	0.72
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.82	-0.05	-6.70	-3.29	-12.25	3.18
	-26.45	-1.80	-20.11	-10.68	-36.74	7.08
	-44.08	-3.54	-33.52	-18.07	-61.23	10.99
	-61.72	-5.29	-46.92	-25.46	-85.73	14.89
	-79.35	-7.03	-60.33	-32.86	-110.22	18.79
	-96.98	-8.78	-73.74	-40.25	-134.72	22.69
	-114.62	-10.52	-87.15	-47.64	-159.21	26.59
	0.87	8.82	3.70	6.70	-1.95	12.25
1.60	0.88	8.83	3.71	6.71	-1.94	12.26
	-114.76	-12.34	-87.29	-48.62	-159.41	23.94
	-97.11	-10.57	-73.86	-41.21	-134.88	20.06
	-79.45	-8.80	-60.43	-33.79	-110.36	16.18
	-61.79	-7.04	-47.00	-26.38	-85.83	12.31
	-44.14	-5.27	-33.57	-18.96	-61.31	8.43
	-26.48	-3.50	-20.14	-11.55	-36.79	4.55
	-8.83	-1.73	-6.71	-4.13	-12.26	0.67
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.83	-0.04	-6.71	-3.28	-12.26	3.21
	-26.48	-1.80	-20.14	-10.70	-36.79	7.09
	-44.14	-3.57	-33.57	-18.11	-61.31	10.97
	-61.79	-5.34	-47.00	-25.53	-85.83	14.85
	-79.45	-7.11	-60.43	-32.94	-110.36	18.73
	-97.11	-8.87	-73.86	-40.36	-134.88	22.61
	-114.76	-10.64	-87.29	-47.77	-159.41	26.49
	0.88	8.83	3.71	6.71	-1.94	12.26
1.65	0.90	8.84	3.72	6.73	-1.93	12.28
	-114.91	-12.51	-87.44	-48.78	-159.60	23.76
	-97.23	-10.72	-73.98	-41.34	-135.05	19.90
	-79.55	-8.93	-60.53	-33.90	-110.49	16.04
	-61.87	-7.14	-47.08	-26.47	-85.94	12.19
	-44.19	-5.35	-33.63	-19.03	-61.39	8.33
	-26.52	-3.56	-20.18	-11.59	-36.83	4.47
	-8.84	-1.77	-6.73	-4.16	-12.28	0.62
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.84	-0.02	-6.73	-3.28	-12.28	3.24
	-26.52	-1.81	-20.18	-10.72	-36.83	7.10
	-44.19	-3.60	-33.63	-18.16	-61.39	10.95
	-61.87	-5.39	-47.08	-25.59	-85.94	14.81
	-79.55	-7.18	-60.53	-33.03	-110.49	18.67
	-97.23	-8.97	-73.98	-40.47	-135.05	22.52
	-114.91	-10.76	-87.44	-47.90	-159.60	26.38
	0.90	8.84	3.72	6.73	-1.93	12.28
1.70	0.91	8.85	3.73	6.74	-1.92	12.29

	-115.05	-12.68	-87.58	-48.94	-159.80	23.57
	-97.35	-10.87	-74.11	-41.48	-135.22	19.74
	-79.65	-9.06	-60.63	-34.02	-110.63	15.90
	-61.95	-7.25	-47.16	-26.56	-86.05	12.07
	-44.25	-5.43	-33.69	-19.10	-61.46	8.23
	-26.55	-3.62	-20.21	-11.64	-36.88	4.40
	-8.85	-1.81	-6.74	-4.18	-12.29	0.57
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.85	-0.01	-6.74	-3.28	-12.29	3.27
	-26.55	-1.82	-20.21	-10.74	-36.88	7.10
	-44.25	-3.63	-33.69	-18.20	-61.46	10.94
	-61.95	-5.44	-47.16	-25.66	-86.05	14.77
	-79.65	-7.26	-60.63	-33.12	-110.63	18.61
	-97.35	-9.07	-74.11	-40.58	-135.22	22.44
	-115.05	-10.88	-87.58	-48.04	-159.80	26.27
	0.91	8.85	3.73	6.74	-1.92	12.29
1.75	0.92	8.86	3.74	6.75	-1.91	12.31
	-115.20	-12.86	-87.73	-49.10	-160.00	23.38
	-97.48	-11.02	-74.23	-41.62	-135.38	19.57
	-79.75	-9.19	-60.74	-34.13	-110.77	15.76
	-62.03	-7.35	-47.24	-26.65	-86.15	11.95
	-44.31	-5.52	-33.74	-19.17	-61.54	8.14
	-26.58	-3.68	-20.25	-11.69	-36.92	4.33
	-8.86	-1.85	-6.75	-4.20	-12.31	0.51
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.86	0.01	-6.75	-3.28	-12.31	3.30
	-26.58	-1.83	-20.25	-10.76	-36.92	7.11
	-44.31	-3.66	-33.74	-18.24	-61.54	10.92
	-62.03	-5.50	-47.24	-25.72	-86.15	14.73
	-79.75	-7.33	-60.74	-33.21	-110.77	18.54
	-97.48	-9.17	-74.23	-40.69	-135.38	22.35
	-115.20	-11.00	-87.73	-48.17	-160.00	26.17
	0.92	8.86	3.74	6.75	-1.91	12.31
1.80	0.93	8.87	3.75	6.76	-1.89	12.32
	-115.35	-13.03	-87.88	-49.26	-160.20	23.20
	-97.60	-11.17	-74.36	-41.76	-135.55	19.41
	-79.86	-9.32	-60.84	-34.25	-110.91	15.62
	-62.11	-7.46	-47.32	-26.75	-86.26	11.83
	-44.36	-5.60	-33.80	-19.24	-61.62	8.04
	-26.62	-3.74	-20.28	-11.73	-36.97	4.25
	-8.87	-1.88	-6.76	-4.23	-12.32	0.46
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.87	0.02	-6.76	-3.28	-12.32	3.33
	-26.62	-1.83	-20.28	-10.78	-36.97	7.11
	-44.36	-3.69	-33.80	-18.29	-61.62	10.90

	-62.11	-5.55	-47.32	-25.79	-86.26	14.69
	-79.86	-7.41	-60.84	-33.30	-110.91	18.48
	-97.60	-9.27	-74.36	-40.80	-135.55	22.27
	-115.35	-11.12	-87.88	-48.31	-160.20	26.06
	0.93	8.87	3.75	6.76	-1.89	12.32
	0.94	8.88	3.76	6.77	-1.88	12.34
	-115.50	-13.21	-88.03	-49.42	-160.40	23.01
	-97.73	-11.33	-74.48	-41.90	-135.72	19.24
	-79.96	-9.45	-60.94	-34.37	-111.05	15.48
	-62.19	-7.56	-47.40	-26.84	-86.37	11.71
	-44.42	-5.68	-33.86	-19.31	-61.69	7.94
	-26.65	-3.80	-20.31	-11.78	-37.02	4.18
	-8.88	-1.92	-6.77	-4.25	-12.34	0.41
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.88	0.04	-6.77	-3.27	-12.34	3.35
	-26.65	-1.84	-20.31	-10.80	-37.02	7.12
	-44.42	-3.72	-33.86	-18.33	-61.69	10.89
	-62.19	-5.60	-47.40	-25.86	-86.37	14.65
	-79.96	-7.49	-60.94	-33.39	-111.05	18.42
	-97.73	-9.37	-74.48	-40.91	-135.72	22.18
	-115.50	-11.25	-88.03	-48.44	-160.40	25.95
	0.94	8.88	3.76	6.77	-1.88	12.34
1.85	0.99	8.93	3.81	6.82	-1.84	12.40
	-116.08	-13.81	-88.61	-50.02	-161.18	22.39
	-98.22	-11.84	-74.98	-42.40	-136.39	18.71
	-80.36	-9.87	-61.34	-34.78	-111.59	15.03
	-62.50	-7.90	-47.71	-27.16	-86.79	11.36
	-44.65	-5.93	-34.08	-19.55	-61.99	7.68
	-26.79	-3.96	-20.45	-11.93	-37.20	4.00
	-8.93	-1.99	-6.82	-4.31	-12.40	0.33
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.93	0.02	-6.82	-3.31	-12.40	3.35
	-26.79	-1.95	-20.45	-10.92	-37.20	7.03
	-44.65	-3.92	-34.08	-18.54	-61.99	10.70
	-62.50	-5.89	-47.71	-26.16	-86.79	14.38
	-80.36	-7.86	-61.34	-33.77	-111.59	18.06
	-98.22	-9.83	-74.98	-41.39	-136.39	21.73
	-116.08	-11.80	-88.61	-49.01	-161.18	25.41
	0.99	8.93	3.81	6.82	-1.84	12.40
1.90	1.00	8.94	3.82	6.83	-1.83	12.42
	-116.23	-14.00	-88.76	-50.19	-161.40	22.19
	-98.35	-12.00	-75.11	-42.55	-136.57	18.54
	-80.47	-10.01	-61.45	-34.90	-111.74	14.89
	-62.59	-8.01	-47.80	-27.26	-86.91	11.23
	-44.71	-6.02	-34.14	-19.62	-62.08	7.58
1.95						

	-26.82	-4.03	-20.48	-11.98	-37.25	3.93
	-8.94	-2.03	-6.83	-4.34	-12.42	0.28
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.94	0.04	-6.83	-3.30	-12.42	3.38
	-26.82	-1.96	-20.48	-10.95	-37.25	7.03
	-44.71	-3.95	-34.14	-18.59	-62.08	10.68
	-62.59	-5.95	-47.80	-26.23	-86.91	14.33
	-80.47	-7.94	-61.45	-33.87	-111.74	17.99
	-98.35	-9.94	-75.11	-41.51	-136.57	21.64
	-116.23	-11.93	-88.76	-49.15	-161.40	25.29
	1.00	8.94	3.82	6.83	-1.83	12.42
2.00	1.01	8.95	3.83	6.84	-1.81	12.43
	-116.39	-14.18	-88.92	-50.36	-161.61	21.99
	-98.49	-12.16	-75.24	-42.69	-136.75	18.36
	-80.58	-10.14	-61.56	-35.03	-111.88	14.74
	-62.67	-8.13	-47.88	-27.36	-87.02	11.11
	-44.77	-6.11	-34.20	-19.69	-62.16	7.48
	-26.86	-4.09	-20.52	-12.03	-37.29	3.85
	-8.95	-2.07	-6.84	-4.36	-12.43	0.22
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.95	0.05	-6.84	-3.30	-12.43	3.40
	-26.86	-1.97	-20.52	-10.97	-37.29	7.03
	-44.77	-3.99	-34.20	-18.63	-62.16	10.66
	-62.67	-6.01	-47.88	-26.30	-87.02	14.29
	-80.58	-8.02	-61.56	-33.97	-111.88	17.92
	-98.49	-10.04	-75.24	-41.63	-136.75	21.54
	-116.39	-12.06	-88.92	-49.30	-161.61	25.17
	1.01	8.95	3.83	6.84	-1.81	12.43
2.05	1.02	8.97	3.85	6.85	-1.80	12.45
	-116.55	-14.37	-89.08	-50.53	-161.82	21.79
	-98.62	-12.32	-75.38	-42.84	-136.93	18.19
	-80.69	-10.28	-61.67	-35.15	-112.03	14.59
	-62.76	-8.24	-47.97	-27.46	-87.14	10.98
	-44.83	-6.19	-34.26	-19.77	-62.24	7.38
	-26.90	-4.15	-20.56	-12.08	-37.34	3.78
	-8.97	-2.11	-6.85	-4.39	-12.45	0.17
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.97	0.06	-6.85	-3.30	-12.45	3.43
	-26.90	-1.98	-20.56	-10.99	-37.34	7.04
	-44.83	-4.02	-34.26	-18.68	-62.24	10.64
	-62.76	-6.06	-47.97	-26.37	-87.14	14.24
	-80.69	-8.11	-61.67	-34.06	-112.03	17.85
	-98.62	-10.15	-75.38	-41.75	-136.93	21.45
	-116.55	-12.19	-89.08	-49.44	-161.82	25.05
	1.02	8.97	3.85	6.85	-1.80	12.45

2.10	1.03	8.98	3.86	6.86	-1.79	12.46
	-116.71	-14.55	-89.24	-50.70	-162.04	21.60
	-98.75	-12.49	-75.51	-42.99	-137.11	18.02
	-80.80	-10.42	-61.78	-35.27	-112.18	14.44
	-62.84	-8.35	-48.05	-27.56	-87.25	10.86
	-44.89	-6.28	-34.32	-19.84	-62.32	7.28
	-26.93	-4.21	-20.59	-12.13	-37.39	3.70
	-8.98	-2.15	-6.86	-4.41	-12.46	0.12
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.98	0.08	-6.86	-3.30	-12.46	3.46
	-26.93	-1.99	-20.59	-11.02	-37.39	7.04
	-44.89	-4.06	-34.32	-18.73	-62.32	10.62
	-62.84	-6.12	-48.05	-26.44	-87.25	14.20
	-80.80	-8.19	-61.78	-34.16	-112.18	17.78
	-98.75	-10.26	-75.51	-41.87	-137.11	21.36
	-116.71	-12.33	-89.24	-49.59	-162.04	24.93
1.03	8.98	3.86	6.86	-1.79	12.46	
2.15	1.05	8.99	3.87	6.88	-1.78	12.48
	-116.87	-14.74	-89.40	-50.88	-162.25	21.40
	-98.89	-12.65	-75.65	-43.14	-137.29	17.84
	-80.91	-10.55	-61.89	-35.40	-112.33	14.29
	-62.93	-8.46	-48.14	-27.66	-87.37	10.73
	-44.95	-6.37	-34.38	-19.92	-62.41	7.18
	-26.97	-4.28	-20.63	-12.18	-37.44	3.62
	-8.99	-2.19	-6.88	-4.44	-12.48	0.07
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.99	0.09	-6.88	-3.30	-12.48	3.49
	-26.97	-2.00	-20.63	-11.04	-37.44	7.04
	-44.95	-4.09	-34.38	-18.78	-62.41	10.60
	-62.93	-6.18	-48.14	-26.52	-87.37	14.15
	-80.91	-8.28	-61.89	-34.26	-112.33	17.71
	-98.89	-10.37	-75.65	-42.00	-137.29	21.26
	-116.87	-12.46	-89.40	-49.74	-162.25	24.81
1.05	8.99	3.87	6.88	-1.78	12.48	
2.20	1.06	9.00	3.88	6.89	-1.76	12.50
	-117.03	-14.93	-89.56	-51.05	-162.47	21.20
	-99.03	-12.81	-75.78	-43.29	-137.48	17.67
	-81.02	-10.69	-62.00	-35.52	-112.48	14.14
	-63.02	-8.58	-48.22	-27.76	-87.48	10.61
	-45.01	-6.46	-34.45	-19.99	-62.49	7.08
	-27.01	-4.34	-20.67	-12.23	-37.49	3.55
	-9.00	-2.22	-6.89	-4.47	-12.50	0.02
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.00	0.11	-6.89	-3.30	-12.50	3.51
	-27.01	-2.01	-20.67	-11.06	-37.49	7.04

	-45.01	-4.13	-34.45	-18.83	-62.49	10.57
	-63.02	-6.24	-48.22	-26.59	-87.48	14.10
	-81.02	-8.36	-62.00	-34.36	-112.48	17.63
	-99.03	-10.48	-75.78	-42.12	-137.48	21.16
	-117.03	-12.59	-89.56	-49.88	-162.47	24.69
	1.06	9.00	3.88	6.89	-1.76	12.50
2.25	1.07	9.02	3.90	6.91	-1.75	12.52
	-117.24	-15.16	-89.77	-51.27	-162.75	20.95
	-99.20	-13.01	-75.96	-43.48	-137.71	17.45
	-81.17	-10.86	-62.15	-35.68	-112.67	13.95
	-63.13	-8.71	-48.34	-27.88	-87.64	10.45
	-45.09	-6.57	-34.53	-20.09	-62.60	6.96
	-27.06	-4.42	-20.72	-12.29	-37.56	3.46
	-9.02	-2.27	-6.91	-4.49	-12.52	-0.04
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.02	0.12	-6.91	-3.30	-12.52	3.54
	-27.06	-2.03	-20.72	-11.10	-37.56	7.04
	-45.09	-4.18	-34.53	-18.89	-62.60	10.53
	-63.13	-6.33	-48.34	-26.69	-87.64	14.03
	-81.17	-8.48	-62.15	-34.49	-112.67	17.53
	-99.20	-10.63	-75.96	-42.28	-137.71	21.03
	-117.24	-12.78	-89.77	-50.08	-162.75	24.52
	1.07	9.02	3.90	6.91	-1.75	12.52
2.30	1.09	9.03	3.91	6.92	-1.74	12.54
	-117.40	-15.35	-89.93	-51.45	-162.97	20.74
	-99.34	-13.18	-76.10	-43.63	-137.90	17.27
	-81.28	-11.00	-62.26	-35.80	-112.83	13.80
	-63.22	-8.83	-48.42	-27.98	-87.75	10.33
	-45.15	-6.65	-34.59	-20.16	-62.68	6.85
	-27.09	-4.48	-20.75	-12.34	-37.61	3.38
	-9.03	-2.31	-6.92	-4.52	-12.54	-0.09
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.03	0.13	-6.92	-3.30	-12.54	3.56
	-27.09	-2.04	-20.75	-11.12	-37.61	7.04
	-45.15	-4.22	-34.59	-18.94	-62.68	10.51
	-63.22	-6.39	-48.42	-26.76	-87.75	13.98
	-81.28	-8.57	-62.26	-34.59	-112.83	17.46
	-99.34	-10.74	-76.10	-42.41	-137.90	20.93
	-117.40	-12.91	-89.93	-50.23	-162.97	24.40
	1.09	9.03	3.91	6.92	-1.74	12.54
2.35	1.10	9.04	3.92	6.93	-1.72	12.55
	-117.57	-15.54	-90.10	-51.62	-163.19	20.54
	-99.48	-13.34	-76.23	-43.78	-138.09	17.09
	-81.39	-11.14	-62.37	-35.93	-112.98	13.65
	-63.30	-8.94	-48.51	-28.08	-87.87	10.20

	-45.22	-6.74	-34.65	-20.24	-62.77	6.75
	-27.13	-4.54	-20.79	-12.39	-37.66	3.30
	-9.04	-2.35	-6.93	-4.55	-12.55	-0.14
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.04	0.15	-6.93	-3.30	-12.55	3.59
	-27.13	-2.05	-20.79	-11.15	-37.66	7.04
	-45.22	-4.25	-34.65	-18.99	-62.77	10.49
	-63.30	-6.45	-48.51	-26.84	-87.87	13.93
	-81.39	-8.65	-62.37	-34.69	-112.98	17.38
	-99.48	-10.85	-76.23	-42.53	-138.09	20.83
	-117.57	-13.05	-90.10	-50.38	-163.19	24.28
	1.10	9.04	3.92	6.93	-1.72	12.55
	1.11	9.06	3.94	6.94	-1.71	12.57
2.40	-117.73	-15.73	-90.26	-51.80	-163.41	20.34
	-99.62	-13.51	-76.37	-43.93	-138.27	16.91
	-81.51	-11.28	-62.49	-36.06	-113.13	13.49
	-63.39	-9.06	-48.60	-28.19	-87.99	10.07
	-45.28	-6.83	-34.72	-20.31	-62.85	6.65
	-27.17	-4.61	-20.83	-12.44	-37.71	3.23
	-9.06	-2.38	-6.94	-4.57	-12.57	-0.20
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.06	0.16	-6.94	-3.30	-12.57	3.62
	-27.17	-2.06	-20.83	-11.17	-37.71	7.04
	-45.28	-4.29	-34.72	-19.04	-62.85	10.46
	-63.39	-6.51	-48.60	-26.91	-87.99	13.89
	-81.51	-8.74	-62.49	-34.79	-113.13	17.31
	-99.62	-10.96	-76.37	-42.66	-138.27	20.73
	-117.73	-13.19	-90.26	-50.53	-163.41	24.15
	1.11	9.06	3.94	6.94	-1.71	12.57
	1.12	9.07	3.95	6.96	-1.70	12.59
2.45	-117.89	-15.92	-90.42	-51.98	-163.64	20.13
	-99.76	-13.67	-76.51	-44.08	-138.46	16.74
	-81.62	-11.42	-62.60	-36.19	-113.29	13.34
	-63.48	-9.17	-48.69	-28.29	-88.11	9.94
	-45.34	-6.92	-34.78	-20.39	-62.94	6.54
	-27.21	-4.67	-20.87	-12.49	-37.76	3.15
	-9.07	-2.42	-6.96	-4.60	-12.59	-0.25
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.07	0.17	-6.96	-3.30	-12.59	3.65
	-27.21	-2.08	-20.87	-11.20	-37.76	7.04
	-45.34	-4.33	-34.78	-19.09	-62.94	10.44
	-63.48	-6.58	-48.69	-26.99	-88.11	13.84
	-81.62	-8.83	-62.60	-34.89	-113.29	17.23
	-99.76	-11.08	-76.51	-42.78	-138.46	20.63
	-117.89	-13.33	-90.42	-50.68	-163.64	24.03

	1.12	9.07	3.95	6.96	-1.70	12.59
2.50	1.14	9.08	3.96	6.97	-1.69	12.60
	-118.06	-16.11	-90.59	-52.16	-163.86	19.93
	-99.90	-13.84	-76.65	-44.24	-138.65	16.56
	-81.73	-11.56	-62.72	-36.31	-113.44	13.18
	-63.57	-9.29	-48.78	-28.39	-88.23	9.81
	-45.41	-7.01	-34.84	-20.47	-63.02	6.44
	-27.24	-4.74	-20.91	-12.55	-37.81	3.07
	-9.08	-2.46	-6.97	-4.62	-12.60	-0.30
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.08	0.19	-6.97	-3.30	-12.60	3.67
	-27.24	-2.09	-20.91	-11.22	-37.81	7.04
	-45.41	-4.36	-34.84	-19.14	-63.02	10.42
	-63.57	-6.64	-48.78	-27.07	-88.23	13.79
	-81.73	-8.91	-62.72	-34.99	-113.44	17.16
	-99.90	-11.19	-76.65	-42.91	-138.65	20.53
	-118.06	-13.46	-90.59	-50.83	-163.86	23.90
	1.14	9.08	3.96	6.97	-1.69	12.60
2.55	1.15	9.09	3.97	6.98	-1.67	12.62
	-118.23	-16.31	-90.76	-52.34	-164.08	19.72
	-100.04	-14.01	-76.79	-44.39	-138.84	16.38
	-81.85	-11.71	-62.83	-36.44	-113.60	13.03
	-63.66	-9.40	-48.87	-28.49	-88.35	9.68
	-45.47	-7.10	-34.91	-20.55	-63.11	6.34
	-27.28	-4.80	-20.94	-12.60	-37.87	2.99
	-9.09	-2.50	-6.98	-4.65	-12.62	-0.35
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.09	0.20	-6.98	-3.30	-12.62	3.70
	-27.28	-2.10	-20.94	-11.25	-37.87	7.05
	-45.47	-4.40	-34.91	-19.19	-63.11	10.39
	-63.66	-6.70	-48.87	-27.14	-88.35	13.74
	-81.85	-9.00	-62.83	-35.09	-113.60	17.08
	-100.04	-11.30	-76.79	-43.04	-138.84	20.43
	-118.23	-13.60	-90.76	-50.99	-164.08	23.78
	1.15	9.09	3.97	6.98	-1.67	12.62
2.60	1.16	9.11	3.99	6.99	-1.66	12.64
	-118.39	-16.50	-90.92	-52.52	-164.31	19.52
	-100.18	-14.17	-76.93	-44.54	-139.03	16.20
	-81.96	-11.85	-62.95	-36.57	-113.75	12.88
	-63.75	-9.52	-48.96	-28.60	-88.47	9.55
	-45.54	-7.19	-34.97	-20.62	-63.20	6.23
	-27.32	-4.87	-20.98	-12.65	-37.92	2.91
	-9.11	-2.54	-6.99	-4.68	-12.64	-0.41
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.11	0.21	-6.99	-3.30	-12.64	3.73

	-27.32	-2.11	-20.98	-11.27	-37.92	7.05
	-45.54	-4.44	-34.97	-19.24	-63.20	10.37
	-63.75	-6.76	-48.96	-27.22	-88.47	13.69
	-81.96	-9.09	-62.95	-35.19	-113.75	17.01
	-100.18	-11.42	-76.93	-43.17	-139.03	20.33
	-118.39	-13.74	-90.92	-51.14	-164.31	23.65
	1.16	9.11	3.99	6.99	-1.66	12.64
2.65	1.18	9.12	4.00	7.01	-1.65	12.66
	-118.56	-16.69	-91.09	-52.70	-164.53	19.31
	-100.32	-14.34	-77.07	-44.70	-139.22	16.01
	-82.08	-11.99	-63.06	-36.70	-113.91	12.72
	-63.84	-9.64	-49.05	-28.70	-88.60	9.43
	-45.60	-7.28	-35.03	-20.70	-63.28	6.13
	-27.36	-4.93	-21.02	-12.70	-37.97	2.84
	-9.12	-2.58	-7.01	-4.70	-12.66	-0.46
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.12	0.23	-7.01	-3.30	-12.66	3.75
	-27.36	-2.12	-21.02	-11.30	-37.97	7.05
	-45.60	-4.48	-35.03	-19.30	-63.28	10.34
	-63.84	-6.83	-49.05	-27.29	-88.60	13.64
	-82.08	-9.18	-63.06	-35.29	-113.91	16.93
	-100.32	-11.53	-77.07	-43.29	-139.22	20.23
	-118.56	-13.88	-91.09	-51.29	-164.53	23.52
	1.18	9.12	4.00	7.01	-1.65	12.66
2.70	1.19	9.13	4.01	7.02	-1.63	12.67
	-118.73	-16.89	-91.26	-52.88	-164.76	19.10
	-100.46	-14.51	-77.22	-44.85	-139.41	15.83
	-82.20	-12.13	-63.18	-36.83	-114.06	12.56
	-63.93	-9.75	-49.14	-28.80	-88.72	9.30
	-45.66	-7.38	-35.10	-20.78	-63.37	6.03
	-27.40	-5.00	-21.06	-12.75	-38.02	2.76
	-9.13	-2.62	-7.02	-4.73	-12.67	-0.51
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.13	0.24	-7.02	-3.30	-12.67	3.78
	-27.40	-2.14	-21.06	-11.32	-38.02	7.05
	-45.66	-4.51	-35.10	-19.35	-63.37	10.32
	-63.93	-6.89	-49.14	-27.37	-88.72	13.59
	-82.20	-9.27	-63.18	-35.40	-114.06	16.86
	-100.46	-11.65	-77.22	-43.42	-139.41	20.13
	-118.73	-14.03	-91.26	-51.45	-164.76	23.40
	1.19	9.13	4.01	7.02	-1.63	12.67
2.75	1.25	9.19	4.07	7.08	-1.58	12.75
	-119.49	-17.67	-92.01	-53.65	-165.78	18.30
	-101.10	-15.18	-77.86	-45.51	-140.28	15.15
	-82.72	-12.68	-63.70	-37.37	-114.77	12.00

	-64.34	-10.19	-49.55	-29.22	-89.27	8.85
	-45.96	-7.69	-35.39	-21.08	-63.76	5.69
	-27.57	-5.20	-21.23	-12.94	-38.26	2.54
	-9.19	-2.70	-7.08	-4.80	-12.75	-0.61
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.19	0.21	-7.08	-3.34	-12.75	3.76
	-27.57	-2.28	-21.23	-11.48	-38.26	6.91
	-45.96	-4.78	-35.39	-19.63	-63.76	10.07
	-64.34	-7.27	-49.55	-27.77	-89.27	13.22
	-82.72	-9.77	-63.70	-35.91	-114.77	16.37
	-101.10	-12.26	-77.86	-44.05	-140.28	19.52
	-119.49	-14.76	-92.01	-52.19	-165.78	22.68
	1.25	9.19	4.07	7.08	-1.58	12.75
2.80	1.26	9.20	4.08	7.09	-1.56	12.77
	-119.66	-17.88	-92.19	-53.84	-166.02	18.09
	-101.25	-15.35	-78.01	-45.67	-140.48	14.96
	-82.84	-12.83	-63.82	-37.50	-114.94	11.84
	-64.43	-10.31	-49.64	-29.33	-89.40	8.71
	-46.02	-7.79	-35.46	-21.16	-63.85	5.59
	-27.61	-5.27	-21.27	-13.00	-38.31	2.46
	-9.20	-2.74	-7.09	-4.83	-12.77	-0.66
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.20	0.22	-7.09	-3.34	-12.77	3.79
	-27.61	-2.30	-21.27	-11.51	-38.31	6.91
	-46.02	-4.82	-35.46	-19.68	-63.85	10.04
	-64.43	-7.34	-49.64	-27.85	-89.40	13.16
	-82.84	-9.86	-63.82	-36.02	-114.94	16.29
	-101.25	-12.39	-78.01	-44.19	-140.48	19.41
	-119.66	-14.91	-92.19	-52.35	-166.02	22.54
	1.26	9.20	4.08	7.09	-1.56	12.77
2.85	1.27	9.22	4.10	7.11	-1.55	12.79
	-119.84	-18.08	-92.37	-54.03	-166.26	17.87
	-101.40	-15.53	-78.16	-45.83	-140.68	14.77
	-82.96	-12.98	-63.95	-37.64	-115.10	11.68
	-64.53	-10.43	-49.74	-29.44	-89.52	8.58
	-46.09	-7.88	-35.53	-21.24	-63.95	5.48
	-27.65	-5.33	-21.32	-13.05	-38.37	2.38
	-9.22	-2.78	-7.11	-4.85	-12.79	-0.72
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.22	0.24	-7.11	-3.34	-12.79	3.81
	-27.65	-2.31	-21.32	-11.54	-38.37	6.91
	-46.09	-4.86	-35.53	-19.73	-63.95	10.01
	-64.53	-7.41	-49.74	-27.93	-89.52	13.11
	-82.96	-9.96	-63.95	-36.13	-115.10	16.21
	-101.40	-12.51	-78.16	-44.32	-140.68	19.31

	-119.84	-15.06	-92.37	-52.52	-166.26	22.40
	1.27	9.22	4.10	7.11	-1.55	12.79
2.90	1.29	9.23	4.11	7.12	-1.54	12.81
	-120.01	-18.28	-92.54	-54.22	-166.50	17.66
	-101.55	-15.71	-78.31	-45.99	-140.88	14.58
	-83.09	-13.13	-64.07	-37.77	-115.27	11.51
	-64.62	-10.55	-49.83	-29.55	-89.65	8.44
	-46.16	-7.98	-35.59	-21.33	-64.04	5.37
	-27.70	-5.40	-21.36	-13.10	-38.42	2.30
	-9.23	-2.83	-7.12	-4.88	-12.81	-0.77
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.23	0.25	-7.12	-3.34	-12.81	3.84
	-27.70	-2.33	-21.36	-11.57	-38.42	6.91
	-46.16	-4.90	-35.59	-19.79	-64.04	9.98
	-64.62	-7.48	-49.83	-28.01	-89.65	13.05
	-83.09	-10.06	-64.07	-36.23	-115.27	16.12
	-101.55	-12.63	-78.31	-44.46	-140.88	19.20
	-120.01	-15.21	-92.54	-52.68	-166.50	22.27
	1.29	9.23	4.11	7.12	-1.54	12.81
2.95	1.30	9.25	4.13	7.13	-1.52	12.83
	-120.19	-18.48	-92.72	-54.41	-166.74	17.44
	-101.70	-15.88	-78.46	-46.16	-141.09	14.40
	-83.21	-13.28	-64.19	-37.91	-115.43	11.35
	-64.72	-10.67	-49.93	-29.66	-89.78	8.31
	-46.23	-8.07	-35.66	-21.41	-64.13	5.26
	-27.74	-5.47	-21.40	-13.16	-38.48	2.22
	-9.25	-2.87	-7.13	-4.91	-12.83	-0.82
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.25	0.26	-7.13	-3.34	-12.83	3.87
	-27.74	-2.34	-21.40	-11.59	-38.48	6.91
	-46.23	-4.94	-35.66	-19.84	-64.13	9.95
	-64.72	-7.55	-49.93	-28.09	-89.78	13.00
	-83.21	-10.15	-64.19	-36.34	-115.43	16.04
	-101.70	-12.75	-78.46	-44.59	-141.09	19.09
	-120.19	-15.36	-92.72	-52.84	-166.74	22.13
	1.30	9.25	4.13	7.13	-1.52	12.83
3.00	1.36	9.31	4.19	7.19	-1.46	12.91
	-121.00	-19.32	-93.53	-55.23	-167.83	16.59
	-102.38	-16.59	-79.14	-46.85	-142.01	13.67
	-83.77	-13.86	-64.75	-38.48	-116.19	10.75
	-65.15	-11.14	-50.36	-30.11	-90.37	7.83
	-46.54	-8.41	-35.97	-21.73	-64.55	4.91
	-27.92	-5.68	-21.58	-13.36	-38.73	1.99
	-9.31	-2.95	-7.19	-4.98	-12.91	-0.93
	0.00	0.00	0.00	0.00	0.00	0.00

	-9.31	0.23	-7.19	-3.39	-12.91	3.84
	-27.92	-2.50	-21.58	-11.77	-38.73	6.76
	-46.54	-5.23	-35.97	-20.14	-64.55	9.68
	-65.15	-7.96	-50.36	-28.52	-90.37	12.60
	-83.77	-10.68	-64.75	-36.89	-116.19	15.52
	-102.38	-13.41	-79.14	-45.26	-142.01	18.44
	-121.00	-16.14	-93.53	-53.64	-167.83	21.36
	1.36	9.31	4.19	7.19	-1.46	12.91
3.05	1.38	9.32	4.20	7.21	-1.45	12.93
	-121.18	-19.53	-93.71	-55.43	-168.08	16.37
	-102.54	-16.77	-79.30	-47.02	-142.22	13.48
	-83.90	-14.02	-64.88	-38.62	-116.36	10.59
	-65.25	-11.26	-50.46	-30.22	-90.50	7.69
	-46.61	-8.51	-36.04	-21.82	-64.64	4.80
	-27.97	-5.75	-21.63	-13.41	-38.79	1.91
	-9.32	-2.99	-7.21	-5.01	-12.93	-0.98
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	-9.32	0.24	-7.21	-3.39	-12.93	3.87
	-27.97	-2.52	-21.63	-11.80	-38.79	6.76
	-46.61	-5.27	-36.04	-20.20	-64.64	9.65
	-65.25	-8.03	-50.46	-28.60	-90.50	12.54
	-83.90	-10.78	-64.88	-37.00	-116.36	15.43
	-102.54	-13.54	-79.30	-45.41	-142.22	18.33
	-121.18	-16.30	-93.71	-53.81	-168.08	21.22
	1.38	9.32	4.20	7.21	-1.45	12.93
3.10	1.39	9.34	4.22	7.22	-1.43	12.95
	-121.37	-19.74	-93.90	-55.63	-168.33	16.14
	-102.70	-16.96	-79.45	-47.19	-142.43	13.28
	-84.02	-14.17	-65.01	-38.76	-116.53	10.42
	-65.35	-11.39	-50.56	-30.33	-90.64	7.55
	-46.68	-8.60	-36.11	-21.90	-64.74	4.69
	-28.01	-5.82	-21.67	-13.47	-38.84	1.83
	-9.34	-3.04	-7.22	-5.04	-12.95	-1.03
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.34	0.25	-7.22	-3.39	-12.95	3.90
	-28.01	-2.53	-21.67	-11.83	-38.84	6.76
	-46.68	-5.32	-36.11	-20.26	-64.74	9.62
	-65.35	-8.10	-50.56	-28.69	-90.64	12.48
	-84.02	-10.89	-65.01	-37.12	-116.53	15.35
	-102.70	-13.67	-79.45	-45.55	-142.43	18.21
	-121.37	-16.46	-93.90	-53.98	-168.33	21.07
	1.39	9.34	4.22	7.22	-1.43	12.95
3.15	1.41	9.35	4.23	7.24	-1.42	12.97
	-121.56	-19.96	-94.09	-55.83	-168.58	15.92
	-102.85	-17.14	-79.61	-47.37	-142.64	13.08

	-84.15	-14.33	-65.14	-38.91	-116.71	10.25
	-65.45	-11.52	-50.66	-30.45	-90.77	7.41
	-46.75	-8.70	-36.19	-21.99	-64.84	4.58
	-28.05	-5.89	-21.71	-13.53	-38.90	1.75
	-9.35	-3.08	-7.24	-5.06	-12.97	-1.09
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.35	0.26	-7.24	-3.40	-12.97	3.92
	-28.05	-2.55	-21.71	-11.86	-38.90	6.75
	-46.75	-5.36	-36.19	-20.32	-64.84	9.59
	-65.45	-8.18	-50.66	-28.78	-90.77	12.42
	-84.15	-10.99	-65.14	-37.24	-116.71	15.26
	-102.85	-13.80	-79.61	-45.70	-142.64	18.09
	-121.56	-16.62	-94.09	-54.16	-168.58	20.92
	1.41	9.35	4.23	7.24	-1.42	12.97
3.20	1.42	9.36	4.24	7.25	-1.40	12.99
	-121.74	-20.17	-94.27	-56.03	-168.83	15.69
	-103.01	-17.33	-79.77	-47.54	-142.86	12.88
	-84.28	-14.48	-65.27	-39.05	-116.88	10.08
	-65.55	-11.64	-50.76	-30.56	-90.91	7.27
	-46.82	-8.80	-36.26	-22.07	-64.94	4.47
	-28.09	-5.96	-21.76	-13.58	-38.96	1.66
	-9.36	-3.12	-7.25	-5.09	-12.99	-1.14
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.36	0.28	-7.25	-3.40	-12.99	3.95
	-28.09	-2.57	-21.76	-11.89	-38.96	6.75
	-46.82	-5.41	-36.26	-20.37	-64.94	9.56
	-65.55	-8.25	-50.76	-28.86	-90.91	12.36
	-84.28	-11.09	-65.27	-37.35	-116.88	15.17
	-103.01	-13.93	-79.77	-45.84	-142.86	17.97
	-121.74	-16.78	-94.27	-54.33	-168.83	20.78
	1.42	9.36	4.24	7.25	-1.40	12.99
3.25	1.44	9.38	4.26	7.27	-1.38	13.01
	-121.99	-20.44	-94.52	-56.29	-169.17	15.40
	-103.22	-17.56	-79.98	-47.76	-143.14	12.63
	-84.46	-14.68	-65.44	-39.23	-117.12	9.87
	-65.69	-11.80	-50.90	-30.71	-91.09	7.10
	-46.92	-8.92	-36.35	-22.18	-65.06	4.33
	-28.15	-6.04	-21.81	-13.65	-39.04	1.57
	-9.38	-3.16	-7.27	-5.12	-13.01	-1.20
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.38	0.28	-7.27	-3.40	-13.01	3.97
	-28.15	-2.60	-21.81	-11.93	-39.04	6.73
	-46.92	-5.48	-36.35	-20.46	-65.06	9.50
	-65.69	-8.36	-50.90	-28.98	-91.09	12.27
	-84.46	-11.24	-65.44	-37.51	-117.12	15.03

	-103.22	-14.12	-79.98	-46.04	-143.14	17.80
	-121.99	-17.00	-94.52	-54.56	-169.17	20.57
	1.44	9.38	4.26	7.27	-1.38	13.01
3.30	1.45	9.40	4.28	7.29	-1.37	13.03
	-122.18	-20.66	-94.71	-56.49	-169.42	15.17
	-103.38	-17.75	-80.14	-47.93	-143.36	12.43
	-84.59	-14.84	-65.57	-39.38	-117.29	9.70
	-65.79	-11.93	-51.00	-30.82	-91.23	6.96
	-46.99	-9.02	-36.43	-22.26	-65.16	4.22
	-28.20	-6.11	-21.86	-13.71	-39.10	1.48
	-9.40	-3.20	-7.29	-5.15	-13.03	-1.25
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.40	0.29	-7.29	-3.40	-13.03	3.99
	-28.20	-2.61	-21.86	-11.96	-39.10	6.73
	-46.99	-5.52	-36.43	-20.52	-65.16	9.47
	-65.79	-8.43	-51.00	-29.07	-91.23	12.21
	-84.59	-11.34	-65.57	-37.63	-117.29	14.94
	-103.38	-14.25	-80.14	-46.18	-143.36	17.68
	-122.18	-17.16	-94.71	-54.74	-169.42	20.42
	1.45	9.40	4.28	7.29	-1.37	13.03
3.35	1.47	9.41	4.29	7.30	-1.35	13.05
	-122.37	-20.87	-94.90	-56.69	-169.68	14.94
	-103.54	-17.94	-80.30	-48.11	-143.57	12.24
	-84.72	-15.00	-65.70	-39.52	-117.47	9.53
	-65.89	-12.06	-51.10	-30.94	-91.36	6.82
	-47.06	-9.12	-36.50	-22.35	-65.26	4.11
	-28.24	-6.18	-21.90	-13.77	-39.16	1.40
	-9.41	-3.24	-7.30	-5.18	-13.05	-1.31
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.41	0.31	-7.30	-3.40	-13.05	4.02
	-28.24	-2.63	-21.90	-11.99	-39.16	6.73
	-47.06	-5.57	-36.50	-20.57	-65.26	9.44
	-65.89	-8.51	-51.10	-29.16	-91.36	12.14
	-84.72	-11.45	-65.70	-37.75	-117.47	14.85
	-103.54	-14.38	-80.30	-46.33	-143.57	17.56
	-122.37	-17.32	-94.90	-54.92	-169.68	20.27
	1.47	9.41	4.29	7.30	-1.35	13.05
3.40	1.48	9.43	4.31	7.31	-1.34	13.07
	-122.56	-21.09	-95.09	-56.89	-169.93	14.72
	-103.70	-18.12	-80.46	-48.28	-143.79	12.04
	-84.85	-15.15	-65.83	-39.66	-117.64	9.36
	-65.99	-12.19	-51.20	-31.05	-91.50	6.68
	-47.14	-9.22	-36.57	-22.44	-65.36	4.00
	-28.28	-6.25	-21.94	-13.82	-39.21	1.32
	-9.43	-3.29	-7.31	-5.21	-13.07	-1.36

	0.00	0.00	0.00	0.00	0.00	0.00
	-9.43	0.32	-7.31	-3.41	-13.07	4.04
	-28.28	-2.65	-21.94	-12.02	-39.21	6.72
	-47.14	-5.62	-36.57	-20.63	-65.36	9.40
	-65.99	-8.58	-51.20	-29.25	-91.50	12.08
	-84.85	-11.55	-65.83	-37.86	-117.64	14.76
	-103.70	-14.52	-80.46	-46.48	-143.79	17.44
	-122.56	-17.48	-95.09	-55.09	-169.93	20.12
	1.48	9.43	4.31	7.31	-1.34	13.07
3.45	1.50	9.44	4.32	7.33	-1.33	13.09
	-122.75	-21.30	-95.28	-57.10	-170.19	14.49
	-103.86	-18.31	-80.62	-48.45	-144.00	11.84
	-84.98	-15.31	-65.96	-39.81	-117.82	9.19
	-66.09	-12.32	-51.30	-31.17	-91.64	6.53
	-47.21	-9.32	-36.64	-22.52	-65.46	3.88
	-28.33	-6.32	-21.99	-13.88	-39.27	1.23
	-9.44	-3.33	-7.33	-5.24	-13.09	-1.42
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.44	0.33	-7.33	-3.41	-13.09	4.07
	-28.33	-2.67	-21.99	-12.05	-39.27	6.72
	-47.21	-5.66	-36.64	-20.69	-65.46	9.37
	-66.09	-8.66	-51.30	-29.34	-91.64	12.02
	-84.98	-11.66	-65.96	-37.98	-117.82	14.67
	-103.86	-14.65	-80.62	-46.62	-144.00	17.32
	-122.75	-17.65	-95.28	-55.27	-170.19	19.97
	1.50	9.44	4.32	7.33	-1.33	13.09
3.50	1.51	9.46	4.34	7.34	-1.31	13.11
	-122.94	-21.52	-95.47	-57.30	-170.44	14.26
	-104.02	-18.50	-80.78	-48.63	-144.22	11.64
	-85.11	-15.47	-66.09	-39.95	-118.00	9.01
	-66.20	-12.44	-51.40	-31.28	-91.78	6.39
	-47.28	-9.42	-36.72	-22.61	-65.55	3.77
	-28.37	-6.39	-22.03	-13.94	-39.33	1.15
	-9.46	-3.37	-7.34	-5.26	-13.11	-1.47
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.46	0.34	-7.34	-3.41	-13.11	4.09
	-28.37	-2.68	-22.03	-12.08	-39.33	6.71
	-47.28	-5.71	-36.72	-20.75	-65.55	9.34
	-66.20	-8.73	-51.40	-29.43	-91.78	11.96
	-85.11	-11.76	-66.09	-38.10	-118.00	14.58
	-104.02	-14.79	-80.78	-46.77	-144.22	17.20
	-122.94	-17.81	-95.47	-55.44	-170.44	19.82
	1.51	9.46	4.34	7.34	-1.31	13.11
3.55	1.53	9.47	4.35	7.36	-1.30	13.13
	-123.13	-21.74	-95.66	-57.50	-170.70	14.03

	-104.18	-18.68	-80.94	-48.80	-144.44	11.43
	-85.24	-15.63	-66.22	-40.10	-118.18	8.84
	-66.30	-12.57	-51.51	-31.40	-91.91	6.25
	-47.36	-9.52	-36.79	-22.70	-65.65	3.66
	-28.41	-6.46	-22.07	-13.99	-39.39	1.07
	-9.47	-3.41	-7.36	-5.29	-13.13	-1.53
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.47	0.35	-7.36	-3.41	-13.13	4.12
	-28.41	-2.70	-22.07	-12.11	-39.39	6.71
	-47.36	-5.76	-36.79	-20.81	-65.65	9.30
	-66.30	-8.81	-51.51	-29.52	-91.91	11.89
	-85.24	-11.87	-66.22	-38.22	-118.18	14.49
	-104.18	-14.92	-80.94	-46.92	-144.44	17.08
	-123.13	-17.97	-95.66	-55.62	-170.70	19.67
	1.53	9.47	4.35	7.36	-1.30	13.13
3.60	1.54	9.49	4.37	7.37	-1.28	13.15
	-123.32	-21.95	-95.85	-57.71	-170.96	13.80
	-104.34	-18.87	-81.10	-48.97	-144.66	11.23
	-85.37	-15.79	-66.35	-40.24	-118.35	8.67
	-66.40	-12.70	-51.61	-31.51	-92.05	6.11
	-47.43	-9.62	-36.86	-22.78	-65.75	3.55
	-28.46	-6.53	-22.12	-14.05	-39.45	0.98
	-9.49	-3.45	-7.37	-5.32	-13.15	-1.58
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.49	0.37	-7.37	-3.41	-13.15	4.14
	-28.46	-2.72	-22.12	-12.14	-39.45	6.71
	-47.43	-5.80	-36.86	-20.87	-65.75	9.27
	-66.40	-8.89	-51.61	-29.60	-92.05	11.83
	-85.37	-11.97	-66.35	-38.34	-118.35	14.40
	-104.34	-15.05	-81.10	-47.07	-144.66	16.96
	-123.32	-18.14	-95.85	-55.80	-170.96	19.52
	1.54	9.49	4.37	7.37	-1.28	13.15
3.65	1.62	9.56	4.44	7.45	-1.21	13.25
	-124.30	-22.97	-96.83	-58.71	-172.29	12.77
	-105.18	-19.73	-81.94	-49.82	-145.78	10.36
	-86.06	-16.50	-67.04	-40.94	-119.28	7.95
	-66.93	-13.26	-52.14	-32.06	-92.77	5.54
	-47.81	-10.02	-37.24	-23.17	-66.27	3.13
	-28.69	-6.79	-22.35	-14.29	-39.76	0.71
	-9.56	-3.55	-7.45	-5.41	-13.25	-1.70
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.56	0.32	-7.45	-3.47	-13.25	4.11
	-28.69	-2.92	-22.35	-12.36	-39.76	6.52
	-47.81	-6.16	-37.24	-21.24	-66.27	8.93
	-66.93	-9.39	-52.14	-30.12	-92.77	11.34

	-86.06	-12.63	-67.04	-39.01	-119.28	13.75	
	-105.18	-15.86	-81.94	-47.89	-145.78	16.16	
	-124.30	-19.10	-96.83	-56.77	-172.29	18.57	
	1.62	9.56	4.44	7.45	-1.21	13.25	
3.70	1.63	9.58	4.46	7.46	-1.19	13.27	
	-124.50	-23.19	-97.03	-58.92	-172.56	12.53	
	-105.35	-19.93	-82.10	-50.01	-146.01	10.15	
	-86.19	-16.66	-67.18	-41.09	-119.46	7.77	
	-67.04	-13.39	-52.25	-32.18	-92.92	5.39	
	-47.89	-10.13	-37.32	-23.26	-66.37	3.01	
	-28.73	-6.86	-22.39	-14.35	-39.82	0.63	
	-9.58	-3.59	-7.46	-5.44	-13.27	-1.75	
	0.00	0.00	0.00	0.00	0.00	0.00	
	-9.58	0.33	-7.46	-3.48	-13.27	4.13	
	-28.73	-2.94	-22.39	-12.39	-39.82	6.51	
	-47.89	-6.21	-37.32	-21.30	-66.37	8.89	
	-67.04	-9.47	-52.25	-30.22	-92.92	11.27	
	-86.19	-12.74	-67.18	-39.13	-119.46	13.65	
	-105.35	-16.01	-82.10	-48.04	-146.01	16.03	
	-124.50	-19.27	-97.03	-56.96	-172.56	18.41	
	1.63	9.58	4.46	7.46	-1.19	13.27	
	3.75	1.65	9.59	4.47	7.48	-1.17	13.29
		-124.70	-23.42	-97.23	-59.13	-172.83	12.29
-105.52		-20.12	-82.27	-50.19	-146.24	9.94	
-86.33		-16.83	-67.32	-41.24	-119.65	7.59	
-67.15		-13.53	-52.36	-32.30	-93.06	5.24	
-47.96		-10.23	-37.40	-23.35	-66.47	2.89	
-28.78		-6.93	-22.44	-14.41	-39.88	0.54	
-9.59		-3.64	-7.48	-5.47	-13.29	-1.81	
0.00		0.00	0.00	0.00	0.00	0.00	
-9.59		0.34	-7.48	-3.48	-13.29	4.16	
-28.78		-2.96	-22.44	-12.42	-39.88	6.51	
-47.96		-6.26	-37.40	-21.37	-66.47	8.85	
-67.15		-9.55	-52.36	-30.31	-93.06	11.20	
-86.33		-12.85	-67.32	-39.26	-119.65	13.55	
-105.52		-16.15	-82.27	-48.20	-146.24	15.90	
-124.70		-19.45	-97.23	-57.15	-172.83	18.25	
1.65		9.59	4.47	7.48	-1.17	13.29	
3.80	1.66	9.61	4.49	7.49	-1.16	13.32	
	-124.90	-23.65	-97.43	-59.35	-173.10	12.05	
	-105.69	-20.32	-82.44	-50.37	-146.47	9.73	
	-86.47	-16.99	-67.45	-41.40	-119.84	7.41	
	-67.26	-13.66	-52.46	-32.42	-93.21	5.09	
	-48.04	-10.33	-37.47	-23.45	-66.58	2.78	
	-28.82	-7.01	-22.48	-14.47	-39.95	0.46	

	-9.61	-3.68	-7.49	-5.49	-13.32	-1.86
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.61	0.35	-7.49	-3.48	-13.32	4.18
	-28.82	-2.98	-22.48	-12.46	-39.95	6.50
	-48.04	-6.31	-37.47	-21.43	-66.58	8.82
	-67.26	-9.64	-52.46	-30.41	-93.21	11.14
	-86.47	-12.96	-67.45	-39.38	-119.84	13.45
	-105.69	-16.29	-82.44	-48.36	-146.47	15.77
	-124.90	-19.62	-97.43	-57.33	-173.10	18.09
	1.66	9.61	4.49	7.49	-1.16	13.32
3.85	1.68	9.62	4.50	7.51	-1.14	13.34
	-125.10	-23.88	-97.63	-59.56	-173.37	11.81
	-105.86	-20.52	-82.61	-50.55	-146.70	9.52
	-86.61	-17.16	-67.59	-41.55	-120.03	7.23
	-67.36	-13.80	-52.57	-32.54	-93.35	4.95
	-48.12	-10.44	-37.55	-23.54	-66.68	2.66
	-28.87	-7.08	-22.53	-14.53	-40.01	0.37
	-9.62	-3.72	-7.51	-5.52	-13.34	-1.92
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.62	0.36	-7.51	-3.48	-13.34	4.20
	-28.87	-3.00	-22.53	-12.49	-40.01	6.49
	-48.12	-6.36	-37.55	-21.50	-66.68	8.78
	-67.36	-9.72	-52.57	-30.50	-93.35	11.07
	-86.61	-13.08	-67.59	-39.51	-120.03	13.36
	-105.86	-16.43	-82.61	-48.51	-146.70	15.64
	-125.10	-19.79	-97.63	-57.52	-173.37	17.93
	1.68	9.62	4.50	7.51	-1.14	13.34
3.90	1.76	9.70	4.58	7.59	-1.06	13.44
	-126.15	-24.94	-98.68	-60.61	-174.78	10.73
	-106.74	-21.42	-83.49	-51.45	-147.89	8.60
	-87.33	-17.90	-68.31	-42.28	-121.00	6.47
	-67.92	-14.38	-53.13	-33.12	-94.11	4.35
	-48.52	-10.87	-37.95	-23.95	-67.22	2.22
	-29.11	-7.35	-22.77	-14.78	-40.33	0.09
	-9.70	-3.83	-7.59	-5.62	-13.44	-2.04
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.70	0.31	-7.59	-3.55	-13.44	4.16
	-29.11	-3.21	-22.77	-12.72	-40.33	6.29
	-48.52	-6.73	-37.95	-21.88	-67.22	8.42
	-67.92	-10.25	-53.13	-31.05	-94.11	10.55
	-87.33	-13.77	-68.31	-40.22	-121.00	12.67
	-106.74	-17.29	-83.49	-49.38	-147.89	14.80
	-126.15	-20.81	-98.68	-58.55	-174.78	16.93
	1.76	9.70	4.58	7.59	-1.06	13.44
3.95	1.78	9.72	4.60	7.61	-1.05	13.47

	-126.36	-25.18	-98.89	-60.84	-175.06	10.48
	-106.92	-21.63	-83.67	-51.64	-148.13	8.38
	-87.48	-18.08	-68.46	-42.44	-121.20	6.29
	-68.04	-14.52	-53.25	-33.24	-94.26	4.19
	-48.60	-10.97	-38.03	-24.04	-67.33	2.10
	-29.16	-7.42	-22.82	-14.84	-40.40	0.00
	-9.72	-3.87	-7.61	-5.65	-13.47	-2.09
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.72	0.32	-7.61	-3.55	-13.47	4.19
	-29.16	-3.23	-22.82	-12.75	-40.40	6.28
	-48.60	-6.79	-38.03	-21.95	-67.33	8.38
	-68.04	-10.34	-53.25	-31.15	-94.26	10.47
	-87.48	-13.89	-68.46	-40.35	-121.20	12.57
	-106.92	-17.44	-83.67	-49.55	-148.13	14.66
	-126.36	-20.99	-98.89	-58.74	-175.06	16.76
	1.78	9.72	4.60	7.61	-1.05	13.47
4.00	1.79	9.74	4.62	7.62	-1.03	13.49
	-126.57	-25.42	-99.10	-61.06	-175.34	10.23
	-107.09	-21.83	-83.85	-51.83	-148.37	8.17
	-87.62	-18.25	-68.60	-42.60	-121.39	6.10
	-68.15	-14.66	-53.36	-33.37	-94.42	4.04
	-48.68	-11.08	-38.11	-24.14	-67.44	1.98
	-29.21	-7.50	-22.87	-14.91	-40.46	-0.09
	-9.74	-3.91	-7.62	-5.68	-13.49	-2.15
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.74	0.33	-7.62	-3.56	-13.49	4.21
	-29.21	-3.26	-22.87	-12.79	-40.46	6.27
	-48.68	-6.84	-38.11	-22.02	-67.44	8.34
	-68.15	-10.42	-53.36	-31.25	-94.42	10.40
	-87.62	-14.01	-68.60	-40.48	-121.39	12.46
	-107.09	-17.59	-83.85	-49.71	-148.37	14.53
	-126.57	-21.18	-99.10	-58.94	-175.34	16.59
	1.79	9.74	4.62	7.62	-1.03	13.49
4.05	1.81	9.75	4.63	7.64	-1.02	13.51
	-126.78	-25.65	-99.31	-61.29	-175.63	9.98
	-107.27	-22.04	-84.03	-52.02	-148.61	7.95
	-87.77	-18.42	-68.75	-42.76	-121.59	5.92
	-68.26	-14.80	-53.47	-33.50	-94.57	3.89
	-48.76	-11.19	-38.19	-24.23	-67.55	1.86
	-29.26	-7.57	-22.92	-14.97	-40.53	-0.17
	-9.75	-3.95	-7.64	-5.70	-13.51	-2.20
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.75	0.34	-7.64	-3.56	-13.51	4.24
	-29.26	-3.28	-22.92	-12.82	-40.53	6.27
	-48.76	-6.89	-38.19	-22.09	-67.55	8.30

	-68.26	-10.51	-53.47	-31.35	-94.57	10.33
	-87.77	-14.13	-68.75	-40.61	-121.59	12.36
	-107.27	-17.74	-84.03	-49.88	-148.61	14.39
	-126.78	-21.36	-99.31	-59.14	-175.63	16.42
	1.81	9.75	4.63	7.64	-1.02	13.51
4.10	1.83	9.77	4.65	7.66	-0.99	13.54
	-127.06	-25.96	-99.59	-61.58	-176.01	9.66
	-107.51	-22.30	-84.27	-52.28	-148.93	7.67
	-87.97	-18.64	-68.95	-42.97	-121.85	5.68
	-68.42	-14.98	-53.63	-33.66	-94.78	3.69
	-48.87	-11.32	-38.30	-24.35	-67.70	1.71
	-29.32	-7.66	-22.98	-15.05	-40.62	-0.28
	-9.77	-4.00	-7.66	-5.74	-13.54	-2.27
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.77	0.34	-7.66	-3.57	-13.54	4.25
	-29.32	-3.32	-22.98	-12.87	-40.62	6.24
	-48.87	-6.98	-38.30	-22.18	-67.70	8.23
	-68.42	-10.64	-53.63	-31.49	-94.78	10.21
	-87.97	-14.30	-68.95	-40.80	-121.85	12.20
	-107.51	-17.96	-84.27	-50.10	-148.93	14.19
	-127.06	-21.62	-99.59	-59.41	-176.01	16.17
	1.83	9.77	4.65	7.66	-0.99	13.54
4.15	1.85	9.79	4.67	7.68	-0.98	13.56
	-127.27	-26.20	-99.80	-61.81	-176.30	9.40
	-107.69	-22.51	-84.45	-52.47	-149.17	7.45
	-88.11	-18.82	-69.09	-43.13	-122.05	5.50
	-68.53	-15.12	-53.74	-33.79	-94.93	3.54
	-48.95	-11.43	-38.39	-24.45	-67.81	1.59
	-29.37	-7.74	-23.03	-15.11	-40.68	-0.37
	-9.79	-4.05	-7.68	-5.77	-13.56	-2.32
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.79	0.35	-7.68	-3.57	-13.56	4.28
	-29.37	-3.34	-23.03	-12.91	-40.68	6.23
	-48.95	-7.03	-38.39	-22.25	-67.81	8.19
	-68.53	-10.72	-53.74	-31.59	-94.93	10.14
	-88.11	-14.42	-69.09	-40.93	-122.05	12.09
	-107.69	-18.11	-84.45	-50.27	-149.17	14.05
	-127.27	-21.80	-99.80	-59.61	-176.30	16.00
	1.85	9.79	4.67	7.68	-0.98	13.56
4.20	1.86	9.81	4.69	7.69	-0.96	13.58
	-127.48	-26.44	-100.01	-62.03	-176.58	9.15
	-107.87	-22.72	-84.63	-52.66	-149.42	7.23
	-88.26	-18.99	-69.24	-43.29	-122.25	5.31
	-68.65	-15.26	-53.85	-33.92	-95.08	3.39
	-49.03	-11.54	-38.47	-24.54	-67.92	1.47

	-29.42	-7.81	-23.08	-15.17	-40.75	-0.46
	-9.81	-4.09	-7.69	-5.80	-13.58	-2.38
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.81	0.36	-7.69	-3.57	-13.58	4.30
	-29.42	-3.36	-23.08	-12.95	-40.75	6.22
	-49.03	-7.09	-38.47	-22.32	-67.92	8.14
	-68.65	-10.81	-53.85	-31.69	-95.08	10.06
	-88.26	-14.54	-69.24	-41.06	-122.25	11.99
	-107.87	-18.26	-84.63	-50.43	-149.42	13.91
	-127.48	-21.99	-100.01	-59.81	-176.58	15.83
	1.86	9.81	4.69	7.69	-0.96	13.58
4.25	1.88	9.82	4.70	7.71	-0.94	13.61
	-127.70	-26.68	-100.23	-62.26	-176.87	8.90
	-108.05	-22.92	-84.81	-52.85	-149.66	7.01
	-88.41	-19.16	-69.39	-43.45	-122.45	5.12
	-68.76	-15.41	-53.97	-34.04	-95.24	3.23
	-49.11	-11.65	-38.55	-24.64	-68.03	1.34
	-29.47	-7.89	-23.13	-15.23	-40.82	-0.55
	-9.82	-4.13	-7.71	-5.83	-13.61	-2.43
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.82	0.37	-7.71	-3.58	-13.61	4.32
	-29.47	-3.38	-23.13	-12.98	-40.82	6.21
	-49.11	-7.14	-38.55	-22.39	-68.03	8.10
	-68.76	-10.90	-53.97	-31.79	-95.24	9.99
	-88.41	-14.66	-69.39	-41.20	-122.45	11.88
	-108.05	-18.42	-84.81	-50.60	-149.66	13.77
	-127.70	-22.17	-100.23	-60.01	-176.87	15.66
	1.88	9.82	4.70	7.71	-0.94	13.61
4.30	1.90	9.84	4.72	7.73	-0.93	13.63
	-127.91	-26.92	-100.44	-62.48	-177.16	8.65
	-108.23	-23.13	-84.99	-53.05	-149.90	6.79
	-88.55	-19.34	-69.53	-43.61	-122.65	4.94
	-68.87	-15.55	-54.08	-34.17	-95.39	3.08
	-49.20	-11.76	-38.63	-24.73	-68.14	1.22
	-29.52	-7.96	-23.18	-15.30	-40.88	-0.63
	-9.84	-4.17	-7.73	-5.86	-13.63	-2.49
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.84	0.38	-7.73	-3.58	-13.63	4.35
	-29.52	-3.41	-23.18	-13.02	-40.88	6.20
	-49.20	-7.20	-38.63	-22.45	-68.14	8.06
	-68.87	-10.99	-54.08	-31.89	-95.39	9.92
	-88.55	-14.78	-69.53	-41.33	-122.65	11.77
	-108.23	-18.57	-84.99	-50.77	-149.90	13.63
	-127.91	-22.36	-100.44	-60.20	-177.16	15.48
	1.90	9.84	4.72	7.73	-0.93	13.63

4.35	1.91	9.86	4.74	7.74	-0.91	13.65
	-128.12	-27.16	-100.65	-62.71	-177.44	8.40
	-108.41	-23.33	-85.17	-53.24	-150.14	6.57
	-88.70	-19.51	-69.68	-43.77	-122.85	4.75
	-68.99	-15.69	-54.20	-34.30	-95.55	2.92
	-49.28	-11.86	-38.71	-24.83	-68.25	1.10
	-29.57	-8.04	-23.23	-15.36	-40.95	-0.72
	-9.86	-4.22	-7.74	-5.89	-13.65	-2.55
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.86	0.39	-7.74	-3.58	-13.65	4.37
	-29.57	-3.43	-23.23	-13.05	-40.95	6.19
	-49.28	-7.25	-38.71	-22.52	-68.25	8.02
	-68.99	-11.08	-54.20	-31.99	-95.55	9.84
	-88.70	-14.90	-69.68	-41.46	-122.85	11.66
	-108.41	-18.72	-85.17	-50.93	-150.14	13.49
	-128.12	-22.55	-100.65	-60.40	-177.44	15.31
	1.91	9.86	4.74	7.74	-0.91	13.65
4.40	1.93	9.87	4.75	7.76	-0.90	13.67
	-128.33	-27.40	-100.86	-62.94	-177.73	8.14
	-108.59	-23.54	-85.35	-53.43	-150.39	6.35
	-88.85	-19.68	-69.83	-43.93	-123.04	4.56
	-69.10	-15.83	-54.31	-34.43	-95.70	2.77
	-49.36	-11.97	-38.79	-24.92	-68.36	0.98
	-29.62	-8.12	-23.28	-15.42	-41.01	-0.81
	-9.87	-4.26	-7.76	-5.92	-13.67	-2.60
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	-9.87	0.40	-7.76	-3.59	-13.67	4.39
	-29.62	-3.45	-23.28	-13.09	-41.01	6.18
	-49.36	-7.31	-38.79	-22.59	-68.36	7.98
	-69.10	-11.16	-54.31	-32.09	-95.70	9.77
	-88.85	-15.02	-69.83	-41.60	-123.04	11.56
	-108.59	-18.88	-85.35	-51.10	-150.39	13.35
	-128.33	-22.73	-100.86	-60.60	-177.73	15.14
	1.93	9.87	4.75	7.76	-0.90	13.67
4.45	1.94	9.89	4.77	7.78	-0.88	13.69
	-128.55	-27.64	-101.08	-63.16	-178.02	7.89
	-108.77	-23.75	-85.53	-53.63	-150.63	6.13
	-88.99	-19.86	-69.98	-44.09	-123.24	4.37
	-69.22	-15.97	-54.43	-34.55	-95.86	2.62
	-49.44	-12.08	-38.88	-25.02	-68.47	0.86
	-29.66	-8.19	-23.33	-15.48	-41.08	-0.90
	-9.89	-4.30	-7.78	-5.95	-13.69	-2.66
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.89	0.41	-7.78	-3.59	-13.69	4.42
	-29.66	-3.47	-23.33	-13.12	-41.08	6.17

	-49.44	-7.36	-38.88	-22.66	-68.47	7.93
	-69.22	-11.25	-54.43	-32.20	-95.86	9.69
	-88.99	-15.14	-69.98	-41.73	-123.24	11.45
	-108.77	-19.03	-85.53	-51.27	-150.63	13.21
	-128.55	-22.92	-101.08	-60.80	-178.02	14.97
	1.94	9.89	4.77	7.78	-0.88	13.69
4.50	2.04	9.98	4.86	7.87	-0.78	13.82
	-129.79	-28.90	-102.32	-64.42	-179.69	6.61
	-109.82	-24.82	-86.58	-54.69	-152.05	5.04
	-89.85	-20.74	-70.84	-44.96	-124.40	3.48
	-69.89	-16.66	-55.09	-35.24	-96.76	1.91
	-49.92	-12.58	-39.35	-25.51	-69.11	0.34
	-29.95	-8.50	-23.61	-15.78	-41.47	-1.23
	-9.98	-4.42	-7.87	-6.06	-13.82	-2.79
	0.00	0.00	0.00	0.00	0.00	0.00
	-9.98	0.35	-7.87	-3.67	-13.82	4.36
	-29.95	-3.73	-23.61	-13.40	-41.47	5.93
	-49.92	-7.81	-39.35	-23.12	-69.11	7.50
	-69.89	-11.89	-55.09	-32.85	-96.76	9.06
	-89.85	-15.97	-70.84	-42.58	-124.40	10.63
	-109.82	-20.05	-86.58	-52.30	-152.05	12.20
	-129.79	-24.13	-102.32	-62.03	-179.69	13.76
	2.04	9.98	4.86	7.87	-0.78	13.82

En la Tabla 20 se muestran las combinaciones de esfuerzos para las diagonales en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 20. Combinación de esfuerzos de las diagonales - 16 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Mín (KN)	Máx(KN)	Mín (KN)	Máx(KN)	Mín (KN)	Máx(KN)
0.50	89.50	553.82	254.38	430.03	-75.39	767.84
	77.70	479.98	220.54	372.70	-65.13	665.46
	65.91	406.14	186.69	315.36	-54.87	563.08
	54.11	332.29	152.84	258.02	-44.61	460.71
	42.32	258.45	118.99	200.68	-34.35	358.33
	30.52	184.61	85.14	143.34	-24.09	255.95
	18.73	110.76	51.29	86.01	-13.84	153.57
	6.93	36.92	17.44	28.67	-3.58	51.19
	4.65	35.33	15.70	27.43	-6.39	48.98
	15.94	105.99	48.09	82.30	-16.21	146.95
	27.23	176.65	80.48	137.17	-26.03	244.92
	38.51	247.31	112.87	192.03	-35.84	342.89
	49.80	317.97	145.26	246.90	-45.66	440.85

	61.09	388.64	177.65	301.77	-55.48	538.82
	72.38	459.30	210.04	356.64	-65.29	636.79
	83.66	529.96	242.43	411.50	-75.11	734.76
0.55	73.99	499.79	225.18	386.25	-77.20	693.23
	64.27	433.15	195.23	334.75	-66.69	600.80
	54.54	366.51	165.27	283.25	-56.19	508.37
	44.81	299.87	135.32	231.75	-45.69	415.94
	35.09	233.24	105.36	180.25	-35.19	323.51
	25.36	166.60	75.41	128.75	-24.69	231.08
	15.63	99.96	45.45	77.25	-14.19	138.65
	5.91	33.32	15.50	25.75	-3.68	46.22
	3.64	31.77	13.78	24.55	-6.50	44.06
	12.91	95.30	42.34	73.65	-16.51	132.18
	22.19	158.83	70.90	122.74	-26.52	220.30
	31.46	222.36	99.45	171.84	-36.53	308.42
	40.73	285.89	128.01	220.94	-46.55	396.54
	50.01	349.42	156.57	270.04	-56.56	484.65
	59.28	412.95	185.13	319.13	-66.57	572.77
	68.55	476.48	213.68	368.23	-76.58	660.89
0.60	64.39	458.30	204.25	353.24	-75.46	635.83
	55.95	397.19	177.08	306.14	-65.19	551.05
	47.50	336.09	149.92	259.04	-54.92	466.28
	39.06	274.98	122.76	211.94	-44.64	381.50
	30.61	213.87	95.60	164.84	-34.37	296.72
	22.17	152.77	68.43	117.75	-24.10	211.94
	13.72	91.66	41.27	70.65	-13.83	127.17
	5.28	30.55	14.11	23.55	-3.56	42.39
	3.01	29.02	12.40	22.37	-6.38	40.27
	11.03	87.07	38.20	67.11	-16.14	120.80
	19.06	145.12	64.01	111.85	-25.90	201.34
	27.08	203.17	89.81	156.60	-35.66	281.88
	35.10	261.22	115.62	201.34	-45.42	362.41
	43.12	319.27	141.42	246.08	-55.17	442.95
	51.15	377.32	167.22	290.82	-64.93	523.49
	59.17	435.37	193.03	335.56	-74.69	604.02
0.65	54.69	421.81	185.02	323.87	-75.64	585.41
	47.54	365.57	160.42	280.68	-65.34	507.35
	40.39	309.32	135.82	237.50	-55.05	429.30
	33.24	253.08	111.22	194.32	-44.75	351.24
	26.09	196.84	86.63	151.14	-34.45	273.19
	18.94	140.60	62.03	107.96	-24.15	195.14
	11.79	84.36	37.43	64.77	-13.85	117.08
	4.64	28.12	12.83	21.59	-3.55	39.03
	2.38	26.62	11.14	20.44	-6.39	36.95
	9.15	79.87	34.43	61.33	-16.14	110.85

	15.92	133.12	57.72	102.21	-25.89	184.75
	22.68	186.37	81.01	143.09	-35.64	258.65
	29.45	239.61	104.30	183.98	-45.39	332.55
	36.22	292.86	127.59	224.86	-55.14	406.45
	42.99	346.11	150.87	265.74	-64.89	480.35
	49.76	399.35	174.16	306.63	-74.64	554.25
0.70	47.83	392.16	170.06	300.28	-74.40	544.40
	41.60	339.88	147.46	260.25	-64.26	471.82
	35.36	287.59	124.86	220.21	-54.13	399.23
	29.13	235.30	102.25	180.17	-43.99	326.64
	22.90	183.01	79.65	140.13	-33.86	254.05
	16.66	130.72	57.05	100.09	-23.72	181.47
	10.43	78.43	34.44	60.06	-13.59	108.88
	4.19	26.14	11.84	20.02	-3.45	36.29
	1.93	24.67	10.16	18.89	-6.30	34.25
	7.81	74.02	31.49	56.68	-15.87	102.76
	13.69	123.37	52.82	94.46	-25.43	171.26
	19.58	172.72	74.16	132.25	-35.00	239.77
	25.46	222.06	95.49	170.04	-44.56	308.27
	31.35	271.41	116.82	207.82	-54.13	376.77
	37.23	320.76	138.15	245.61	-63.69	445.28
43.11	370.11	159.48	283.39	-73.26	513.78	
0.75	43.71	368.45	158.97	281.78	-71.56	511.54
	38.02	319.32	137.85	244.21	-61.80	443.33
	32.34	270.20	116.73	206.64	-52.04	375.13
	26.66	221.07	95.60	169.07	-42.28	306.92
	20.98	171.94	74.48	131.50	-32.52	238.72
	15.29	122.82	53.35	93.93	-22.77	170.51
	9.61	73.69	32.23	56.36	-13.01	102.31
	3.93	24.56	11.11	18.79	-3.25	34.10
	1.65	23.11	9.43	17.68	-6.13	32.09
	7.00	69.34	29.30	53.03	-15.31	96.26
	12.34	115.56	49.18	88.38	-24.49	160.44
	17.69	161.78	69.05	123.73	-33.67	224.61
	23.04	208.01	88.93	159.08	-42.85	288.79
	28.39	254.23	108.81	194.43	-52.04	352.97
	33.73	300.46	128.68	229.78	-61.22	417.14
39.08	346.68	148.56	265.13	-70.40	481.32	
0.80	38.67	346.41	147.89	264.26	-70.56	481.05
	33.66	300.22	128.24	229.02	-60.93	416.91
	28.65	254.03	108.60	193.79	-51.30	352.77
	23.64	207.85	88.95	158.55	-41.68	288.63
	18.63	161.66	69.31	123.32	-32.05	224.49
	13.62	115.47	49.66	88.09	-22.42	160.35
	8.61	69.28	30.02	52.85	-12.79	96.21

	3.60	23.09	10.37	17.62	-3.17	32.07
	1.32	21.67	8.70	16.53	-6.06	30.09
	6.02	65.01	27.13	49.59	-15.10	90.27
	10.72	108.34	45.57	82.65	-24.13	150.45
	15.42	151.68	64.00	115.71	-33.16	210.63
	20.12	195.02	82.43	148.77	-42.20	270.81
	24.82	238.35	100.86	181.82	-51.23	330.99
	29.52	281.69	119.30	214.88	-60.26	391.17
	34.22	325.03	137.73	247.94	-69.30	451.35
0.85	37.23	330.11	141.17	251.91	-66.71	458.40
	32.42	286.10	122.42	218.32	-57.59	397.28
	27.60	242.08	103.67	184.73	-48.47	336.16
	22.78	198.07	84.92	151.14	-39.36	275.04
	17.97	154.05	66.18	117.56	-30.24	213.92
	13.15	110.04	47.43	83.97	-21.12	152.80
	8.34	66.02	28.68	50.38	-12.01	91.68
	3.52	22.01	9.93	16.79	-2.89	30.56
	1.21	20.59	8.25	15.72	-5.83	28.60
	5.72	61.78	25.80	47.15	-14.36	85.79
	10.23	102.97	43.34	78.58	-22.89	142.99
	14.73	144.16	60.89	110.01	-31.42	200.19
	19.24	185.35	78.43	141.44	-39.95	257.38
	23.75	226.54	95.98	172.87	-48.48	314.58
	28.25	267.73	113.52	204.30	-57.01	371.77
32.76	308.92	131.07	235.73	-65.54	428.97	
0.90	34.04	313.82	133.32	239.10	-65.24	435.84
	29.65	271.98	115.62	207.22	-56.32	377.73
	25.26	230.14	97.92	175.34	-47.40	319.62
	20.87	188.29	80.22	143.46	-38.47	261.51
	16.48	146.45	62.52	111.58	-29.55	203.39
	12.10	104.61	44.81	79.70	-20.62	145.28
	7.71	62.76	27.11	47.82	-11.70	87.17
	3.32	20.92	9.41	15.94	-2.78	29.06
	1.00	19.53	7.74	14.88	-5.74	27.12
	5.10	58.59	24.26	44.64	-14.07	81.37
	9.19	97.65	40.78	74.40	-22.40	135.62
	13.29	136.71	57.31	104.16	-30.73	189.87
	17.39	175.77	73.83	133.92	-39.06	244.12
	21.48	214.83	90.36	163.68	-47.39	298.37
	25.58	253.89	106.88	193.44	-55.72	352.61
29.67	292.95	123.40	223.20	-64.05	406.86	
0.95	32.95	301.12	128.10	229.48	-62.21	418.19
	28.70	260.97	111.09	198.88	-53.69	362.43
	24.46	220.82	94.09	168.29	-45.16	306.68
	20.22	180.67	77.09	137.69	-36.64	250.92

	15.98	140.52	60.08	107.09	-28.12	195.16
	11.74	100.37	43.08	76.49	-19.60	139.40
	7.50	60.22	26.07	45.90	-11.08	83.64
	3.26	20.07	9.07	15.30	-2.55	27.88
	0.92	18.70	7.39	14.25	-5.56	25.97
	4.87	56.09	23.23	42.75	-13.50	77.90
	8.82	93.49	39.06	71.25	-21.43	129.83
	12.77	130.88	54.90	99.74	-29.37	181.77
	16.72	168.28	70.74	128.24	-37.31	233.70
	20.67	205.67	86.58	156.74	-45.25	285.64
	24.62	243.07	102.41	185.24	-53.18	337.57
	28.57	280.46	118.25	213.74	-61.12	389.50
	30.27	288.10	121.75	219.21	-61.20	400.17
1.00	26.39	249.69	105.59	189.98	-52.81	346.81
	22.51	211.27	89.43	160.75	-44.42	293.46
	18.62	172.86	73.28	131.53	-36.03	240.10
	14.74	134.45	57.12	102.30	-27.64	186.75
	10.86	96.03	40.97	73.07	-19.25	133.39
	6.98	57.62	24.81	43.84	-10.86	80.03
	3.09	19.21	8.65	14.61	-2.47	26.68
	0.73	17.85	6.97	13.58	-5.51	24.80
	4.34	53.55	21.99	40.75	-13.30	74.39
	7.95	89.26	37.01	67.91	-21.10	123.98
	11.56	124.96	52.02	95.08	-28.90	173.57
	15.17	160.66	67.04	122.25	-36.70	223.16
	18.78	196.37	82.05	149.41	-44.50	272.75
	22.39	232.07	97.07	176.58	-52.30	322.34
	26.00	267.77	112.09	203.74	-60.09	371.94
	29.57	278.13	117.75	211.70	-58.61	386.30
	25.78	241.04	102.12	183.47	-50.56	334.80
	22.00	203.96	86.50	155.25	-42.51	283.29
	18.21	166.88	70.88	127.02	-34.46	231.78
	14.42	129.79	55.26	98.79	-26.42	180.28
	10.63	92.71	39.64	70.57	-18.37	128.77
	6.85	55.63	24.02	42.34	-10.32	77.26
	3.06	18.54	8.39	14.11	-2.27	25.75
	0.67	17.20	6.70	13.09	-5.36	23.89
	4.19	51.60	21.20	39.28	-12.82	71.67
	7.70	86.00	35.69	65.46	-20.29	119.45
	11.21	120.40	50.18	91.65	-27.75	167.24
	14.73	154.81	64.67	117.83	-35.22	215.02
	18.24	189.21	79.16	144.02	-42.68	262.80
	21.75	223.61	93.66	170.20	-50.15	310.58
	25.27	258.01	108.15	196.39	-57.61	358.36
1.10	28.81	269.03	114.02	204.82	-56.39	373.66

	25.13	233.16	98.90	177.51	-48.64	323.84
	21.45	197.29	83.77	150.20	-40.88	274.02
	17.76	161.42	68.65	122.89	-33.13	224.20
	14.08	125.55	53.53	95.58	-25.37	174.37
	10.39	89.68	38.40	68.27	-17.62	124.55
	6.71	53.81	23.28	40.96	-9.86	74.73
	3.02	17.94	8.15	13.65	-2.11	24.91
	0.61	16.61	6.46	12.64	-5.23	23.07
	4.02	49.83	20.46	37.93	-12.41	69.21
	7.44	83.04	34.47	63.22	-19.60	115.34
	10.85	116.26	48.47	88.51	-26.78	161.48
	14.26	149.48	62.48	113.80	-33.96	207.62
	17.67	182.70	76.49	139.09	-41.14	253.75
	21.08	215.92	90.49	164.38	-48.32	299.89
	24.50	249.13	104.50	189.67	-55.50	346.03
1.15	28.28	260.95	110.81	198.74	-54.25	362.43
	24.67	226.16	96.11	172.24	-46.78	314.11
	21.06	191.37	81.42	145.74	-39.30	265.78
	17.45	156.57	66.72	119.25	-31.83	217.46
	13.84	121.78	52.03	92.75	-24.36	169.13
	10.22	86.98	37.33	66.25	-16.89	120.81
	6.61	52.19	22.64	39.75	-9.41	72.49
	3.00	17.40	7.95	13.25	-1.94	24.16
	0.56	16.08	6.24	12.25	-5.11	22.34
	3.90	48.25	19.83	36.75	-12.02	67.02
	7.24	80.42	33.41	61.25	-18.93	111.70
	10.58	112.59	47.00	85.75	-25.84	156.38
	13.92	144.76	60.58	110.25	-32.75	201.06
	17.26	176.93	74.17	134.75	-39.66	245.74
	20.60	209.10	87.76	159.25	-46.57	290.42
	23.93	241.27	101.34	183.75	-53.47	335.10
1.20	25.58	251.41	105.67	191.02	-54.51	349.26
	22.33	217.89	91.67	165.55	-47.00	302.69
	19.08	184.37	77.66	140.08	-39.49	256.12
	15.83	150.85	63.65	114.61	-31.98	209.55
	12.58	117.33	49.64	89.14	-24.47	162.99
	9.34	83.80	35.63	63.67	-16.96	116.42
	6.09	50.28	21.62	38.20	-9.45	69.85
	2.84	16.76	7.61	12.73	-1.94	23.28
	0.38	15.47	5.91	11.76	-5.15	21.50
	3.38	46.42	18.84	35.27	-12.08	64.49
	6.38	77.37	31.78	58.79	-19.01	107.48
	9.38	108.32	44.71	82.30	-25.95	150.48
	12.38	139.27	57.64	105.82	-32.88	193.47
	15.38	170.22	70.58	129.33	-39.82	236.47

	18.38	201.17	83.51	152.84	-46.75	279.46
	21.38	232.12	96.45	176.36	-53.68	322.45
1.25	25.22	244.83	103.10	186.08	-52.66	340.09
	22.02	212.18	89.43	161.27	-45.39	294.75
	18.82	179.54	75.77	136.46	-38.12	249.40
	15.62	146.90	62.10	111.65	-30.86	204.06
	12.42	114.25	48.44	86.84	-23.59	158.71
	9.23	81.61	34.78	62.03	-16.32	113.36
	6.03	48.97	21.11	37.22	-9.06	68.02
	2.83	16.32	7.45	12.41	-1.79	22.67
	0.34	15.05	5.73	11.44	-5.05	20.91
	3.29	45.15	18.33	34.32	-11.75	62.72
	6.24	75.25	30.93	57.19	-18.45	104.53
	9.19	105.35	43.53	80.07	-25.15	146.34
	12.14	135.45	56.13	102.95	-31.85	188.16
	15.09	165.55	68.73	125.83	-38.55	229.97
	18.04	195.65	81.33	148.71	-45.25	271.78
	20.99	225.75	93.93	171.58	-51.95	313.59
1.30	24.91	238.82	100.76	181.59	-50.95	331.74
	21.75	206.98	87.41	157.38	-43.90	287.51
	18.60	175.14	74.06	133.17	-36.86	243.28
	15.44	143.29	60.70	108.95	-29.82	199.05
	12.29	111.45	47.35	84.74	-22.78	154.81
	9.13	79.61	34.00	60.53	-15.74	110.58
	5.98	47.76	20.65	36.32	-8.70	66.35
	2.82	15.92	7.30	12.11	-1.65	22.12
	0.31	14.66	5.58	11.15	-4.96	20.37
	3.21	43.99	17.87	33.45	-11.45	61.11
	6.12	73.32	30.17	55.75	-17.93	101.85
	9.02	102.65	42.47	78.05	-24.42	142.59
	11.93	131.98	54.76	100.35	-30.90	183.33
	14.84	161.31	67.06	122.65	-37.39	224.07
	17.74	190.64	79.36	144.95	-43.87	264.81
	20.65	219.96	91.66	167.25	-50.36	305.55
1.35	24.39	233.10	98.39	177.25	-49.61	323.79
	21.31	202.02	85.36	153.61	-42.74	280.62
	18.22	170.94	72.32	129.98	-35.87	237.44
	15.14	139.86	59.29	106.35	-29.01	194.27
	12.06	108.78	46.25	82.71	-22.14	151.10
	8.97	77.70	33.22	59.08	-15.27	107.93
	5.89	46.62	20.18	35.45	-8.41	64.76
	2.80	15.54	7.15	11.82	-1.54	21.59
	0.26	14.30	5.42	10.87	-4.90	19.86
	3.10	42.89	17.41	32.62	-11.22	59.58
	5.93	71.49	29.40	54.36	-17.53	99.31

	8.77	100.09	41.40	76.11	-23.85	139.03
	11.61	128.68	53.39	97.85	-30.17	178.75
	14.45	157.28	65.38	119.59	-36.49	218.47
	17.29	185.88	77.38	141.34	-42.81	258.20
	20.12	214.47	89.37	163.08	-49.12	297.92
1.40	24.16	228.08	96.46	173.50	-48.13	316.81
	21.11	197.67	83.68	150.36	-41.46	274.57
	18.06	167.26	70.90	127.23	-34.79	232.33
	15.01	136.85	58.13	104.10	-28.11	190.08
	11.96	106.44	45.35	80.97	-21.44	147.84
	8.91	76.03	32.58	57.83	-14.77	105.60
	5.85	45.62	19.80	34.70	-8.09	63.36
	2.80	15.21	7.03	11.57	-1.42	21.12
	0.23	13.98	5.28	10.63	-4.83	19.42
	3.03	41.93	17.03	31.90	-10.96	58.25
	5.84	69.89	28.77	53.17	-17.10	97.08
	8.64	97.85	40.52	74.43	-23.23	135.91
	11.45	125.80	52.26	95.70	-29.37	174.75
	14.25	153.76	64.01	116.96	-35.50	213.58
	17.06	181.72	75.75	138.23	-41.64	252.41
	19.86	209.67	87.50	159.50	-47.77	291.24
	1.45	23.96	223.47	94.69	170.06	-46.76
20.94		193.68	82.15	147.38	-40.27	269.01
17.92		163.88	69.61	124.71	-33.77	227.63
14.90		134.08	57.07	102.03	-27.28	186.24
11.87		104.29	44.53	79.36	-20.79	144.85
8.85		74.49	31.99	56.69	-14.29	103.47
5.83		44.69	19.46	34.01	-7.80	62.08
2.81		14.90	6.92	11.34	-1.30	20.69
0.20		13.69	5.16	10.41	-4.77	19.01
2.97		41.06	16.68	31.24	-10.73	57.03
5.75		68.43	28.20	52.07	-16.70	95.05
8.53		95.80	39.72	72.90	-22.66	133.06
11.30		123.17	51.24	93.73	-28.63	171.08
14.08		150.54	62.76	114.56	-34.59	209.10
16.86		177.91	74.27	135.39	-40.56	247.12
19.63	205.29	85.79	156.22	-46.52	285.14	
1.50	22.66	218.10	91.93	165.76	-46.62	302.96
	19.81	189.02	79.76	143.66	-40.14	262.57
	16.96	159.94	67.59	121.56	-33.66	222.17
	14.12	130.86	55.42	99.46	-27.18	181.78
	11.27	101.78	43.25	77.35	-20.71	141.38
	8.43	72.70	31.08	55.25	-14.23	100.99
	5.58	43.62	18.91	33.15	-7.75	60.59
	2.74	14.54	6.74	11.05	-1.27	20.20

	0.10	13.35	4.98	10.14	-4.78	18.54
	2.71	40.04	16.16	30.43	-10.73	55.63
	5.33	66.74	27.33	50.72	-16.68	92.71
	7.94	93.44	38.50	71.01	-22.62	129.79
	10.55	120.13	49.67	91.30	-28.57	166.88
	13.16	146.83	60.85	111.59	-34.52	203.96
	15.78	173.52	72.02	131.88	-40.47	241.04
	18.39	200.22	83.19	152.17	-46.41	278.13
1.55	22.54	214.21	90.47	162.87	-45.40	297.55
	19.71	185.65	78.50	141.15	-39.08	257.88
	16.88	157.09	66.52	119.44	-32.76	218.21
	14.05	128.53	54.55	97.72	-26.44	178.53
	11.23	99.96	42.57	76.01	-20.12	138.86
	8.40	71.40	30.60	54.29	-13.80	99.18
	5.57	42.84	18.63	32.57	-7.48	59.51
	2.74	14.28	6.65	10.86	-1.16	19.84
	0.08	13.10	4.88	9.96	-4.73	18.20
	2.67	39.31	15.87	29.89	-10.53	54.60
	5.26	65.52	26.86	49.81	-16.33	91.01
	7.86	91.72	37.84	69.74	-22.12	127.41
	10.45	117.93	48.83	89.66	-27.92	163.81
	13.05	144.13	59.82	109.59	-33.72	200.21
	15.64	170.34	70.80	129.51	-39.52	236.61
	18.24	196.55	81.79	149.44	-45.32	273.02
1.60	22.44	210.62	89.13	160.20	-44.25	292.56
	19.63	182.54	77.33	138.84	-38.08	253.55
	16.81	154.45	65.54	117.48	-31.91	214.54
	14.00	126.37	53.75	96.12	-25.74	175.53
	11.19	98.29	41.95	74.76	-19.57	136.53
	8.38	70.21	30.16	53.40	-13.40	97.52
	5.57	42.12	18.37	32.04	-7.23	58.51
	2.75	14.04	6.57	10.68	-1.06	19.50
	0.05	12.88	4.79	9.80	-4.69	17.89
	2.63	38.63	15.61	29.39	-10.34	53.66
	5.21	64.39	26.42	48.98	-16.00	89.44
	7.79	90.14	37.24	68.57	-21.66	125.21
	10.37	115.90	48.06	88.16	-27.32	160.99
	12.95	141.66	58.87	107.75	-32.98	196.76
	15.53	167.41	69.69	127.34	-38.64	232.54
	18.10	193.17	80.51	146.93	-44.30	268.31
1.65	22.36	207.30	87.89	157.74	-43.17	287.93
	19.56	179.66	76.27	136.71	-37.14	249.54
	16.76	152.02	64.64	115.67	-31.11	211.15
	13.96	124.38	53.01	94.64	-25.08	172.76
	11.16	96.74	41.38	73.61	-19.05	134.37

	8.36	69.10	29.75	52.58	-13.02	95.98
	5.57	41.46	18.13	31.55	-6.99	57.59
	2.77	13.82	6.50	10.52	-0.96	19.20
	0.03	12.67	4.70	9.64	-4.64	17.60
	2.60	38.01	15.36	28.92	-10.17	52.80
	5.16	63.35	26.03	48.21	-15.70	87.99
	7.73	88.69	36.69	67.49	-21.23	123.19
	10.29	114.03	47.35	86.77	-26.76	158.39
	12.86	139.37	58.01	106.05	-32.29	193.59
	15.43	164.71	68.67	125.34	-37.82	228.78
	17.99	190.05	79.33	144.62	-43.34	263.98
1.70	22.30	204.21	86.76	155.46	-42.16	283.64
	19.51	176.99	75.28	134.73	-36.26	245.82
	16.72	149.76	63.81	114.00	-30.36	208.00
	13.93	122.53	52.33	93.27	-24.46	170.18
	11.15	95.30	40.86	72.55	-18.56	132.37
	8.36	68.07	29.38	51.82	-12.67	94.55
	5.57	40.84	17.91	31.09	-6.77	56.73
	2.78	13.61	6.43	10.36	-0.87	18.91
	0.01	12.48	4.62	9.50	-4.61	17.33
	2.56	37.44	15.14	28.50	-10.02	52.00
	5.12	62.39	25.66	47.50	-15.42	86.66
	7.68	87.35	36.18	66.50	-20.83	121.33
	10.23	112.31	46.70	85.49	-26.23	155.99
	12.79	137.27	57.22	104.49	-31.64	190.65
	15.34	162.23	67.73	123.49	-37.05	225.32
	17.90	187.18	78.25	142.49	-42.45	259.98
1.75	22.26	201.35	85.71	153.34	-41.20	279.66
	19.48	174.51	74.38	132.89	-35.42	242.37
	16.70	147.66	63.04	112.45	-29.65	205.08
	13.92	120.81	51.71	92.00	-23.87	167.79
	11.14	93.97	40.37	71.56	-18.10	130.51
	8.36	67.12	29.04	51.11	-12.33	93.22
	5.58	40.27	17.70	30.67	-6.55	55.93
	2.80	13.42	6.37	10.22	-0.78	18.64
	-0.01	12.30	4.55	9.37	-4.58	17.09
	2.53	36.91	14.94	28.11	-9.87	51.26
	5.08	61.51	25.32	46.84	-15.16	85.43
	7.63	86.11	35.71	65.58	-20.45	119.60
	10.18	110.72	46.10	84.32	-25.74	153.77
	12.73	135.32	56.49	103.05	-31.03	187.95
	15.27	159.93	66.87	121.79	-36.33	222.12
	17.82	184.53	77.26	140.53	-41.62	256.29
1.80	22.23	198.69	84.75	151.38	-40.28	275.95
	19.46	172.20	73.54	131.19	-34.63	239.16

	16.68	145.71	62.34	111.01	-28.97	202.37
	13.91	119.22	51.13	90.83	-23.32	165.57
	11.13	92.72	39.93	70.64	-17.66	128.78
	8.36	66.23	28.72	50.46	-12.00	91.98
	5.59	39.74	17.52	30.28	-6.35	55.19
	2.81	13.25	6.31	10.09	-0.69	18.40
	-0.03	12.14	4.48	9.25	-4.55	16.86
	2.51	36.42	14.75	27.74	-9.73	50.57
	5.05	60.69	25.02	46.24	-14.92	84.29
	7.59	84.97	35.28	64.73	-20.10	118.01
	10.13	109.25	45.55	83.23	-25.28	151.72
	12.68	133.52	55.82	101.72	-30.46	185.44
	15.22	157.80	66.08	120.22	-35.65	219.15
	17.76	182.08	76.35	138.71	-40.83	252.87
1.85	22.22	196.22	83.85	149.55	-39.42	272.50
	19.45	170.06	72.77	129.61	-33.87	236.17
	16.68	143.89	61.69	109.67	-28.33	199.84
	13.91	117.73	50.60	89.73	-22.79	163.50
	11.14	91.57	39.52	69.79	-17.24	127.17
	8.37	65.41	28.43	49.85	-11.70	90.83
	5.60	39.24	17.35	29.91	-6.15	54.50
	2.83	13.08	6.26	9.97	-0.61	18.17
	-0.05	11.99	4.42	9.14	-4.52	16.65
	2.48	35.96	14.57	27.41	-9.61	49.94
	5.02	59.93	24.73	45.68	-14.69	83.23
	7.56	83.91	34.89	63.95	-19.77	116.53
	10.10	107.88	45.04	82.22	-24.85	149.82
	12.64	131.85	55.20	100.49	-29.93	183.12
	15.17	155.83	65.36	118.76	-35.01	216.41
	17.71	179.80	75.52	137.04	-40.09	249.70
1.90	22.94	194.63	83.75	148.57	-37.87	270.26
	20.07	168.68	72.68	128.76	-32.53	234.23
	17.21	142.73	61.61	108.95	-27.19	198.19
	14.35	116.78	50.54	89.14	-21.85	162.16
	11.48	90.83	39.47	69.33	-16.50	126.12
	8.62	64.88	28.40	49.52	-11.16	90.09
	5.76	38.93	17.34	29.71	-5.82	54.05
	2.89	12.98	6.27	9.90	-0.48	18.02
	-0.03	11.89	4.40	9.08	-4.46	16.51
	2.59	35.67	14.54	27.23	-9.36	49.53
	5.22	59.45	24.69	45.38	-14.25	82.55
	7.84	83.23	34.83	63.53	-19.15	115.57
	10.47	107.01	44.98	81.69	-24.04	148.59
	13.09	130.79	55.12	99.84	-28.94	181.62
	15.71	154.57	65.26	117.99	-33.83	214.64

	18.34	178.35	75.41	136.14	-38.73	247.66
1.95	22.95	192.48	82.99	146.99	-37.09	267.26
	20.09	166.81	72.02	127.39	-31.85	231.63
	17.23	141.15	61.06	107.79	-26.60	195.99
	14.36	115.49	50.09	88.19	-21.36	160.36
	11.50	89.82	39.12	68.59	-16.12	124.72
	8.64	64.16	28.16	49.00	-10.88	89.09
	5.78	38.50	17.19	29.40	-5.64	53.45
	2.91	12.83	6.22	9.80	-0.40	17.82
	-0.05	11.76	4.35	8.98	-4.44	16.33
	2.58	35.28	14.40	26.94	-9.24	48.99
	5.20	58.80	24.45	44.90	-14.05	81.64
	7.82	82.32	34.50	62.86	-18.85	114.30
	10.45	105.84	44.55	80.82	-23.66	146.96
	13.07	129.36	54.60	98.79	-28.46	179.62
	15.69	152.88	64.65	116.75	-33.26	212.27
	18.32	176.40	74.70	134.71	-38.07	244.93
2.00	22.98	190.46	82.29	145.51	-36.34	264.46
	20.11	165.07	71.42	126.11	-31.19	229.19
	17.25	139.67	60.55	106.71	-26.05	193.93
	14.39	114.28	49.67	87.31	-20.90	158.67
	11.52	88.88	38.80	67.91	-15.75	123.41
	8.66	63.49	27.93	48.50	-10.61	88.15
	5.80	38.09	17.06	29.10	-5.46	52.89
	2.93	12.70	6.19	9.70	-0.32	17.63
	-0.07	11.64	4.29	8.89	-4.43	16.16
	2.56	34.92	14.26	26.67	-9.14	48.48
	5.18	58.19	24.22	44.46	-13.86	80.80
	7.81	81.47	34.19	62.24	-18.57	113.12
	10.43	104.75	44.15	80.02	-23.29	145.44
	13.06	128.02	54.12	97.81	-28.01	177.76
	15.68	151.30	64.08	115.59	-32.72	210.08
	18.30	174.58	74.05	133.37	-37.44	242.40
2.05	23.01	188.58	81.64	144.13	-35.62	261.83
	20.15	163.44	70.86	124.92	-30.56	226.92
	17.28	138.29	60.07	105.70	-25.51	192.01
	14.42	113.15	49.29	86.48	-20.46	157.10
	11.55	88.01	38.51	67.26	-15.40	122.19
	8.69	62.86	27.72	48.04	-10.35	87.28
	5.82	37.72	16.94	28.83	-5.29	52.37
	2.96	12.57	6.15	9.61	-0.24	17.46
	-0.08	11.53	4.24	8.81	-4.41	16.00
	2.54	34.58	14.13	26.43	-9.04	48.01
	5.17	57.63	24.02	44.05	-13.68	80.01
	7.80	80.68	33.90	61.66	-18.31	112.02

	10.42	103.73	43.79	79.28	-22.94	144.03	
	13.05	126.78	53.68	96.90	-27.58	176.03	
	15.68	149.84	63.56	114.52	-32.21	208.04	
	18.30	172.89	73.45	132.14	-36.84	240.04	
2.10	23.06	186.82	81.04	142.85	-34.93	259.38	
	20.19	161.91	70.34	123.80	-29.96	224.79	
	17.32	137.00	59.64	104.76	-24.99	190.21	
	14.45	112.09	48.93	85.71	-20.03	155.63	
	11.58	87.18	38.23	66.66	-15.06	121.04	
	8.72	62.27	27.53	47.62	-10.10	86.46	
	5.85	37.36	16.83	28.57	-5.13	51.88	
	2.98	12.45	6.12	9.52	-0.17	17.29	
	-0.10	11.42	4.20	8.73	-4.40	15.86	
	2.53	34.26	14.01	26.20	-8.95	47.57	
	5.16	57.11	23.83	43.66	-13.51	79.28	
	7.79	79.95	33.64	61.13	-18.06	111.00	
	10.42	102.79	43.46	78.60	-22.61	142.71	
	13.05	125.63	53.27	96.06	-27.17	174.42	
	15.68	148.47	63.08	113.53	-31.72	206.14	
	18.31	171.32	72.90	130.99	-36.27	237.85	
	2.15	23.11	185.17	80.49	141.65	-34.26	257.08
		20.24	160.48	69.86	122.76	-29.38	222.80
17.37		135.79	59.23	103.87	-24.50	188.52	
14.49		111.10	48.61	84.99	-19.62	154.25	
11.62		86.41	37.98	66.10	-14.74	119.97	
8.75		61.72	27.35	47.22	-9.86	85.69	
5.87		37.03	16.72	28.33	-4.97	51.42	
3.00		12.34	6.10	9.44	-0.09	17.14	
-0.12		11.32	4.16	8.66	-4.39	15.72	
2.52		33.97	13.90	25.99	-8.87	47.16	
5.15		56.62	23.65	43.31	-13.35	78.60	
7.79		79.26	33.40	60.63	-17.82	110.04	
10.42		101.91	43.15	77.96	-22.30	141.48	
13.06		124.56	52.90	95.28	-26.78	172.93	
15.69		147.20	62.64	112.60	-31.26	204.37	
18.33	169.85	72.39	129.93	-35.73	235.81		
2.20	23.18	183.62	79.98	140.52	-33.62	254.92	
	20.30	159.14	69.42	121.79	-28.82	220.93	
	17.42	134.66	58.86	103.05	-24.02	186.94	
	14.54	110.17	48.30	84.31	-19.22	152.95	
	11.66	85.69	37.74	65.58	-14.42	118.96	
	8.78	61.21	27.19	46.84	-9.62	84.97	
	5.90	36.72	16.63	28.10	-4.82	50.98	
	3.02	12.24	6.07	9.37	-0.02	16.99	
	-0.13	11.23	4.12	8.60	-4.38	15.59	

	2.51	33.70	13.80	25.79	-8.79	46.78
	5.15	56.16	23.49	42.98	-13.19	77.97
	7.79	78.63	33.18	60.17	-17.60	109.16
	10.43	101.09	42.87	77.36	-22.00	140.34
	13.07	123.56	52.55	94.55	-26.41	171.53
	15.71	146.02	62.24	111.75	-30.81	202.72
	18.36	168.49	71.93	128.94	-35.21	233.90
2.25	23.32	182.24	79.58	139.54	-32.93	252.99
	20.43	157.95	69.07	120.94	-28.22	219.26
	17.53	133.65	58.57	102.33	-23.51	185.53
	14.64	109.35	48.07	83.73	-18.80	151.80
	11.74	85.05	37.56	65.12	-14.08	118.06
	8.84	60.75	27.06	46.51	-9.37	84.33
	5.95	36.45	16.56	27.91	-4.66	50.60
	3.05	12.15	6.05	9.30	0.05	16.87
	-0.15	11.15	4.08	8.54	-4.37	15.48
	2.51	33.46	13.72	25.62	-8.70	46.44
	5.17	55.76	23.36	42.70	-13.03	77.41
	7.83	78.06	33.00	59.77	-17.35	108.37
	10.48	100.37	42.65	76.85	-21.68	139.33
	13.14	122.67	52.29	93.93	-26.00	170.30
	15.80	144.98	61.93	111.01	-30.33	201.26
	18.46	167.28	71.57	128.09	-34.65	232.22
	2.30	23.40	180.88	79.14	138.56	-32.34
20.50		156.76	68.70	120.08	-27.70	217.61
17.60		132.65	58.25	101.61	-23.06	184.13
14.69		108.53	47.81	83.13	-18.43	150.65
11.79		84.41	37.37	64.66	-13.79	117.18
8.89		60.29	26.92	46.19	-9.15	83.70
5.98		36.18	16.48	27.71	-4.51	50.22
3.08		12.06	6.04	9.24	0.12	16.74
-0.16		11.07	4.05	8.48	-4.37	15.37
2.50		33.22	13.64	25.45	-8.63	46.11
5.17		55.36	23.23	42.41	-12.89	76.85
7.84		77.51	32.82	59.37	-17.14	107.60
10.50		99.66	42.41	76.34	-21.40	138.34
13.17		121.80	52.00	93.30	-25.66	169.08
15.83		143.95	61.59	110.27	-29.92	199.82
18.50	166.09	71.18	127.23	-34.18	230.56	
2.35	23.49	179.60	78.74	137.63	-31.76	249.30
	20.58	155.65	68.35	119.28	-27.20	216.06
	17.66	131.71	57.96	100.93	-22.63	182.82
	14.75	107.76	47.57	82.58	-18.07	149.58
	11.84	83.81	37.18	64.23	-13.50	116.34
	8.93	59.87	26.80	45.88	-8.94	83.10

	6.02	35.92	16.41	27.53	-4.37	49.86
	3.10	11.97	6.02	9.18	0.19	16.62
	-0.18	11.00	4.01	8.43	-4.37	15.27
	2.50	33.00	13.56	25.29	-8.56	45.80
	5.17	55.00	23.10	42.15	-12.76	76.34
	7.85	76.99	32.64	59.00	-16.95	106.88
	10.52	98.99	42.19	75.86	-21.14	137.41
	13.20	120.99	51.73	92.72	-25.33	167.95
	15.87	142.99	61.27	109.58	-29.53	198.48
	18.55	164.99	70.82	126.44	-33.72	229.02
2.40	23.58	178.40	78.37	136.77	-31.20	247.62
	20.66	154.61	68.03	118.53	-26.71	214.60
	17.74	130.82	57.69	100.30	-22.21	181.59
	14.82	107.04	47.35	82.06	-17.72	148.57
	11.90	83.25	37.02	63.83	-13.22	115.56
	8.97	59.47	26.68	45.59	-8.73	82.54
	6.05	35.68	16.34	27.35	-4.24	49.52
	3.13	11.89	6.00	9.12	0.26	16.51
	-0.19	10.93	3.98	8.38	-4.37	15.17
	2.49	32.79	13.48	25.14	-8.50	45.51
	5.18	54.65	22.98	41.90	-12.63	75.86
	7.86	76.51	32.48	58.66	-16.76	106.20
	10.55	98.37	41.98	75.42	-20.89	136.54
	13.23	120.23	51.49	92.18	-25.02	166.89
	15.92	142.09	60.99	108.94	-29.15	197.23
18.60	163.95	70.49	125.70	-33.28	227.57	
2.45	23.68	177.26	78.02	135.96	-30.66	246.04
	20.75	153.63	67.73	117.83	-26.23	213.23
	17.82	129.99	57.44	99.70	-21.81	180.43
	14.89	106.36	47.15	81.58	-17.38	147.62
	11.95	82.72	36.86	63.45	-12.96	114.82
	9.02	59.09	26.57	45.32	-8.53	82.01
	6.09	35.45	16.28	27.19	-4.10	49.21
	3.16	11.82	5.99	9.06	0.32	16.40
	-0.21	10.87	3.95	8.33	-4.37	15.08
	2.49	32.60	13.41	25.00	-8.44	45.25
	5.18	54.33	22.88	41.67	-12.51	75.41
	7.88	76.06	32.34	58.34	-16.58	105.57
	10.58	97.79	41.80	75.01	-20.65	135.74
	13.27	119.52	51.26	91.67	-24.72	165.90
	15.97	141.26	60.72	108.34	-28.79	196.06
18.66	162.99	70.19	125.01	-32.86	226.23	
2.50	23.79	176.20	77.71	135.20	-30.14	244.55
	20.84	152.70	67.46	117.17	-25.78	211.94
	17.90	129.21	57.22	99.14	-21.41	179.34

	14.96	105.72	46.97	81.12	-17.05	146.73
	12.01	82.22	36.72	63.09	-12.69	114.12
	9.07	58.73	26.47	45.07	-8.33	81.52
	6.13	35.24	16.23	27.04	-3.97	48.91
	3.19	11.75	5.98	9.01	0.39	16.30
	-0.22	10.81	3.92	8.29	-4.37	15.00
	2.48	32.42	13.35	24.87	-8.38	44.99
	5.19	54.03	22.78	41.46	-12.39	74.99
	7.90	75.64	32.20	58.04	-16.41	104.98
	10.61	97.25	41.63	74.62	-20.42	134.98
	13.31	118.86	51.06	91.21	-24.43	164.97
	16.02	140.47	60.48	107.79	-28.44	194.97
	18.73	162.09	69.91	124.37	-32.45	224.96
2.55	23.90	175.19	77.42	134.48	-29.63	243.14
	20.94	151.83	67.21	116.55	-25.33	210.73
	17.99	128.47	57.01	98.62	-21.03	178.31
	15.03	105.11	46.80	80.69	-16.73	145.89
	12.08	81.76	36.59	62.76	-12.44	113.47
	9.12	58.40	26.39	44.83	-8.14	81.05
	6.17	35.04	16.18	26.90	-3.84	48.63
	3.21	11.68	5.97	8.97	0.45	16.21
	-0.24	10.75	3.90	8.25	-4.37	14.92
	2.48	32.25	13.29	24.76	-8.33	44.76
	5.20	53.75	22.69	41.26	-12.28	74.60
	7.92	75.25	32.08	57.76	-16.24	104.43
	10.64	96.75	41.48	74.27	-20.19	134.27
	13.36	118.24	50.87	90.77	-24.15	164.11
	16.08	139.74	60.26	107.27	-28.10	193.95
18.80	161.24	69.66	123.78	-32.06	223.79	
2.60	24.01	174.24	77.16	133.81	-29.13	241.82
	21.05	151.01	66.99	115.97	-24.89	209.58
	18.08	127.78	56.82	98.13	-20.66	177.34
	15.11	104.55	46.65	80.29	-16.42	145.09
	12.14	81.31	36.47	62.45	-12.19	112.85
	9.18	58.08	26.30	44.60	-7.95	80.61
	6.21	34.85	16.13	26.76	-3.72	48.36
	3.24	11.62	5.96	8.92	0.52	16.12
	-0.25	10.70	3.87	8.21	-4.38	14.85
	2.48	32.09	13.24	24.64	-8.28	44.54
	5.21	53.48	22.60	41.07	-12.18	74.23
	7.95	74.88	31.97	57.50	-16.08	103.92
	10.68	96.27	41.34	73.93	-19.98	133.61
	13.41	117.67	50.70	90.36	-23.88	163.30
	16.14	139.06	60.07	106.79	-27.78	192.99
18.88	160.45	69.43	123.22	-31.68	222.68	

2.65	24.13	173.35	76.91	133.19	-28.64	240.57
	21.15	150.24	66.78	115.43	-24.47	208.50
	18.17	127.12	56.64	97.67	-20.29	176.42
	15.19	104.01	46.50	79.91	-16.12	144.34
	12.21	80.90	36.37	62.15	-11.94	112.27
	9.23	57.78	26.23	44.40	-7.77	80.19
	6.25	34.67	16.09	26.64	-3.59	48.11
	3.27	11.56	5.96	8.88	0.58	16.04
	-0.27	10.65	3.85	8.18	-4.38	14.78
	2.48	31.94	13.19	24.54	-8.23	44.33
	5.23	53.24	22.53	40.90	-12.08	73.88
	7.97	74.54	31.87	57.27	-15.92	103.44
	10.72	95.83	41.21	73.63	-19.77	132.99
	13.46	117.13	50.55	89.99	-23.62	162.55
	16.21	138.42	59.89	106.35	-27.46	192.10
	18.96	159.72	69.22	122.71	-31.31	221.65
2.70	24.26	172.51	76.69	132.60	-28.17	239.40
	21.27	149.51	66.59	114.92	-24.06	207.48
	18.27	126.51	56.48	97.24	-19.94	175.56
	15.28	103.51	46.38	79.56	-15.82	143.64
	12.28	80.51	36.27	61.88	-11.71	111.72
	9.29	57.50	26.16	44.20	-7.59	79.80
	6.29	34.50	16.06	26.52	-3.47	47.88
	3.30	11.50	5.95	8.84	0.64	15.96
	-0.28	10.60	3.83	8.15	-4.39	14.71
	2.48	31.81	13.14	24.45	-8.18	44.14
	5.24	53.01	22.46	40.74	-11.98	73.56
	8.00	74.21	31.77	57.04	-15.77	102.99
	10.76	95.42	41.09	73.34	-19.57	132.41
	13.52	116.62	50.41	89.64	-23.36	161.84
	16.28	137.83	59.72	105.94	-27.16	191.26
	19.04	159.03	69.04	122.23	-30.95	220.69
2.75	25.24	172.57	77.35	132.90	-26.86	239.44
	22.12	149.56	67.15	115.18	-22.91	207.52
	19.00	126.55	56.96	97.46	-18.97	175.59
	15.88	103.54	46.77	79.74	-15.02	143.66
	12.75	80.53	36.58	62.02	-11.07	111.74
	9.63	57.52	26.39	44.30	-7.13	79.81
	6.51	34.51	16.20	26.58	-3.18	47.89
	3.39	11.50	6.01	8.86	0.76	15.96
	-0.24	10.61	3.86	8.17	-4.34	14.72
	2.64	31.83	13.26	24.52	-7.98	44.17
	5.52	53.06	22.66	40.86	-11.62	73.62
	8.40	74.28	32.06	57.20	-15.26	103.06
	11.28	95.50	41.46	73.55	-18.90	132.51

	14.16	116.73	50.86	89.89	-22.54	161.96
	17.04	137.95	60.26	106.24	-26.18	191.40
	19.92	159.17	69.66	122.58	-29.82	220.85
2.80	25.38	171.83	77.17	132.38	-26.40	238.40
	22.25	148.92	67.00	114.73	-22.51	206.61
	19.11	126.01	56.84	97.08	-18.62	174.83
	15.97	103.10	46.67	79.43	-14.73	143.04
	12.83	80.19	36.50	61.78	-10.84	111.25
	9.69	57.28	26.34	44.13	-6.95	79.47
	6.55	34.37	16.17	26.48	-3.06	47.68
	3.42	11.46	6.01	8.83	0.83	15.89
	-0.26	10.57	3.84	8.14	-4.35	14.67
	2.64	31.72	13.22	24.43	-7.94	44.00
	5.54	52.86	22.60	40.72	-11.53	73.34
	8.43	74.00	31.98	57.01	-15.12	102.67
	11.33	95.15	41.37	73.30	-18.71	132.01
	14.23	116.29	50.75	89.59	-22.30	161.35
	17.12	137.44	60.13	105.88	-25.89	190.68
	20.02	158.58	69.51	122.17	-29.48	220.02
2.85	25.53	171.13	77.01	131.90	-25.95	237.42
	22.37	148.31	66.87	114.31	-22.12	205.76
	19.22	125.49	56.72	96.73	-18.28	174.11
	16.06	102.68	46.58	79.14	-14.45	142.45
	12.91	79.86	36.44	61.55	-10.62	110.80
	9.76	57.04	26.29	43.97	-6.78	79.14
	6.60	34.23	16.15	26.38	-2.95	47.48
	3.45	11.41	6.01	8.79	0.89	15.83
	-0.27	10.53	3.82	8.12	-4.36	14.62
	2.64	31.60	13.19	24.36	-7.90	43.85
	5.56	52.67	22.55	40.60	-11.44	73.08
	8.47	73.74	31.92	56.84	-14.98	102.31
	11.38	94.81	41.29	73.08	-18.52	131.54
	14.29	115.88	50.65	89.32	-22.06	160.77
17.21	136.95	60.02	105.56	-25.60	190.01	
20.12	158.02	69.38	121.80	-29.14	219.24	
2.90	25.68	170.47	76.87	131.45	-25.52	236.50
	22.50	147.74	66.74	113.92	-21.73	204.96
	19.33	125.01	56.62	96.40	-17.95	173.43
	16.16	102.28	46.50	78.87	-14.17	141.90
	12.99	79.55	36.38	61.34	-10.39	110.36
	9.82	56.82	26.25	43.82	-6.61	78.83
	6.65	34.09	16.13	26.29	-2.83	47.30
	3.48	11.36	6.01	8.76	0.95	15.77
	-0.28	10.50	3.80	8.10	-4.37	14.57
	2.65	31.50	13.16	24.29	-7.86	43.70

	5.58	52.50	22.51	40.48	-11.35	72.84
	8.51	73.50	31.86	56.68	-14.85	101.97
	11.44	94.50	41.21	72.87	-18.34	131.11
	14.37	115.50	50.57	89.07	-21.83	160.24
	17.30	136.50	59.92	105.26	-25.33	189.37
	20.23	157.50	69.27	121.45	-28.82	218.51
2.95	25.83	169.85	76.74	131.03	-25.09	235.62
	22.64	147.20	66.64	113.56	-21.36	204.21
	19.45	124.55	56.53	96.09	-17.63	172.79
	16.26	101.91	46.43	78.62	-13.90	141.37
	13.07	79.26	36.32	61.15	-10.17	109.96
	9.89	56.62	26.22	43.68	-6.45	78.54
	6.70	33.97	16.11	26.21	-2.72	47.12
	3.51	11.32	6.01	8.74	1.01	15.71
	-0.30	10.47	3.79	8.08	-4.38	14.52
	2.65	31.40	13.13	24.23	-7.82	43.57
	5.60	52.34	22.47	40.38	-11.27	72.61
	8.55	73.28	31.81	56.53	-14.72	101.65
	11.49	94.21	41.15	72.68	-18.16	130.70
	14.44	115.15	50.49	88.83	-21.61	159.74
	17.39	136.09	59.83	104.98	-25.06	188.79
	20.34	157.02	69.17	121.13	-28.50	217.83
3.00	26.87	170.14	77.51	131.52	-23.78	235.99
	23.54	147.46	67.31	113.98	-20.22	204.53
	20.22	124.77	57.10	96.44	-16.66	173.06
	16.89	102.09	46.89	78.91	-13.11	141.60
	13.57	79.40	36.69	61.37	-9.55	110.13
	10.25	56.71	26.48	43.84	-5.99	78.66
	6.92	34.03	16.28	26.30	-2.43	47.20
	3.60	11.34	6.07	8.77	1.13	15.73
	-0.26	10.49	3.82	8.11	-4.33	14.55
	2.82	31.48	13.26	24.33	-7.63	43.66
	5.89	52.46	22.71	40.55	-10.92	72.77
	8.97	73.45	32.15	56.77	-14.21	101.87
	12.04	94.43	41.59	72.99	-17.50	130.98
	15.12	115.42	51.03	89.21	-20.79	160.09
	18.19	136.40	60.47	105.44	-24.08	189.19
	21.27	157.39	69.91	121.66	-27.37	218.30
3.05	27.03	169.60	77.42	131.15	-23.36	235.22
	23.69	146.98	67.23	113.67	-19.85	203.86
	20.35	124.37	57.04	96.18	-16.35	172.50
	17.00	101.76	46.84	78.69	-12.84	141.13
	13.66	79.15	36.65	61.20	-9.33	109.77
	10.32	56.53	26.46	43.72	-5.83	78.41
	6.97	33.92	16.27	26.23	-2.32	47.04

	3.63	11.31	6.08	8.74	1.19	15.68
	-0.27	10.47	3.81	8.09	-4.34	14.51
	2.83	31.40	13.24	24.28	-7.59	43.54
	5.92	52.33	22.68	40.46	-10.84	72.57
	9.01	73.26	32.11	56.65	-14.08	101.60
	12.11	94.19	41.54	72.83	-17.33	130.63
	15.20	115.12	50.98	89.02	-20.57	159.66
	18.30	136.05	60.41	105.21	-23.82	188.69
	21.39	156.98	69.84	121.39	-27.06	217.72
3.10	27.20	169.08	77.34	130.81	-22.94	234.50
	23.84	146.54	67.16	113.37	-19.49	203.23
	20.47	123.99	56.98	95.93	-16.03	171.97
	17.11	101.45	46.80	78.49	-12.58	140.70
	13.75	78.91	36.62	61.05	-9.12	109.43
	10.39	56.36	26.44	43.60	-5.66	78.17
	7.03	33.82	16.26	26.16	-2.21	46.90
	3.66	11.27	6.08	8.72	1.25	15.63
	-0.28	10.44	3.80	8.08	-4.36	14.48
	2.83	31.32	13.22	24.23	-7.56	43.44
	5.95	52.20	22.65	40.38	-10.76	72.39
	9.06	73.08	32.08	56.54	-13.96	101.35
	12.17	93.95	41.51	72.69	-17.16	130.31
	15.29	114.83	50.93	88.84	-20.36	159.26
	18.40	135.71	60.36	105.00	-23.56	188.22
	21.51	156.59	69.79	121.15	-26.76	217.18
3.15	27.37	168.60	77.28	130.50	-22.54	233.82
	23.99	146.12	67.11	113.10	-19.13	202.64
	20.61	123.64	56.94	95.70	-15.72	171.47
	17.22	101.16	46.77	78.30	-12.32	140.29
	13.84	78.68	36.60	60.90	-8.91	109.12
	10.46	56.20	26.43	43.50	-5.51	77.94
	7.08	33.72	16.26	26.10	-2.10	46.76
	3.70	11.24	6.09	8.70	1.31	15.59
	-0.29	10.42	3.78	8.06	-4.37	14.44
	2.84	31.25	13.21	24.19	-7.52	43.33
	5.97	52.08	22.63	40.31	-10.68	72.22
	9.11	72.91	32.05	56.43	-13.84	101.11
	12.24	93.74	41.48	72.56	-16.99	130.00
	15.38	114.57	50.90	88.68	-20.15	158.89
	18.51	135.40	60.33	104.80	-23.31	187.78
	21.64	156.23	69.75	120.93	-26.46	216.67
3.20	27.54	168.14	77.22	130.20	-22.14	233.18
	24.14	145.72	67.06	112.84	-18.78	202.09
	20.74	123.30	56.90	95.48	-15.42	171.00
	17.34	100.88	46.74	78.12	-12.06	139.91

	13.94	78.47	36.58	60.76	-8.71	108.82
	10.53	56.05	26.42	43.40	-5.35	77.73
	7.13	33.63	16.26	26.04	-1.99	46.64
	3.73	11.21	6.10	8.68	1.37	15.55
	-0.31	10.39	3.77	8.05	-4.38	14.41
	2.85	31.18	13.19	24.14	-7.49	43.24
	6.00	51.97	22.61	40.24	-10.61	72.07
	9.16	72.76	32.03	56.34	-13.72	100.90
	12.31	93.54	41.46	72.43	-16.83	129.72
	15.47	114.33	50.88	88.53	-19.95	158.55
	18.62	135.12	60.30	104.63	-23.06	187.38
	21.77	155.90	69.72	120.72	-26.17	216.21
	27.80	167.79	77.26	130.01	-21.66	232.68
3.25	24.37	145.42	67.10	112.67	-18.36	201.66
	20.94	123.05	56.93	95.34	-15.06	170.63
	17.50	100.68	46.77	78.01	-11.76	139.61
	14.07	78.30	36.60	60.67	-8.46	108.59
	10.64	55.93	26.44	43.34	-5.17	77.56
	7.20	33.56	16.27	26.00	-1.87	46.54
	3.77	11.19	6.11	8.67	1.43	15.51
	-0.31	10.38	3.76	8.04	-4.39	14.39
	2.87	31.14	13.19	24.12	-7.45	43.18
	6.06	51.89	22.62	40.21	-10.51	71.96
	9.24	72.65	32.06	56.29	-13.57	100.74
	12.43	93.41	41.49	72.37	-16.63	129.53
	15.61	114.16	50.92	88.45	-19.69	158.31
	18.80	134.92	60.35	104.54	-22.75	187.09
	21.98	155.68	69.78	120.62	-25.81	215.88
	27.98	167.39	77.23	129.75	-21.27	232.11
3.30	24.53	145.07	67.07	112.45	-18.02	201.17
	21.07	122.75	56.91	95.15	-14.76	170.22
	17.62	100.43	46.75	77.85	-11.51	139.27
	14.17	78.12	36.60	60.55	-8.26	108.32
	10.71	55.80	26.44	43.25	-5.01	77.37
	7.26	33.48	16.28	25.95	-1.76	46.42
	3.80	11.16	6.12	8.65	1.49	15.47
	-0.32	10.36	3.75	8.03	-4.40	14.37
	2.88	31.08	13.18	24.09	-7.42	43.10
	6.09	51.80	22.61	40.15	-10.44	71.83
	9.30	72.52	32.04	56.21	-13.45	100.56
	12.50	93.24	41.48	72.27	-16.47	129.29
	15.71	113.95	50.91	88.33	-19.49	158.02
	18.91	134.67	60.34	104.39	-22.51	186.75
	22.12	155.39	69.77	120.45	-25.53	215.48
3.35	28.17	167.01	77.21	129.52	-20.88	231.58

	24.69	144.74	67.06	112.25	-17.68	200.70
	21.21	122.47	56.90	94.98	-14.47	169.82
	17.74	100.21	46.75	77.71	-11.27	138.95
	14.26	77.94	36.59	60.44	-8.06	108.07
	10.79	55.67	26.44	43.17	-4.86	77.19
	7.31	33.40	16.28	25.90	-1.66	46.32
	3.84	11.13	6.13	8.63	1.55	15.44
	-0.34	10.34	3.74	8.02	-4.41	14.34
	2.89	31.03	13.17	24.06	-7.39	43.02
	6.12	51.71	22.61	40.10	-10.37	71.70
	9.35	72.40	32.04	56.14	-13.34	100.38
	12.58	93.08	41.47	72.18	-16.32	129.06
	15.80	113.76	50.90	88.22	-19.30	157.75
	19.03	134.45	60.34	104.27	-22.27	186.43
	22.26	155.13	69.77	120.31	-25.25	215.11
3.40	28.35	166.65	77.20	129.30	-20.50	231.07
	24.85	144.43	67.05	112.06	-17.34	200.26
	21.36	122.21	56.90	94.82	-14.18	169.45
	17.86	99.99	46.75	77.58	-11.03	138.64
	14.36	77.77	36.59	60.34	-7.87	107.83
	10.87	55.55	26.44	43.10	-4.71	77.02
	7.37	33.33	16.29	25.86	-1.55	46.21
	3.87	11.11	6.14	8.62	1.61	15.40
	-0.35	10.33	3.73	8.01	-4.43	14.32
	2.90	30.98	13.17	24.03	-7.36	42.95
	6.15	51.63	22.60	40.06	-10.30	71.59
	9.40	72.28	32.04	56.08	-13.23	100.22
	12.65	92.94	41.47	72.10	-16.17	128.86
	15.90	113.59	50.91	88.13	-19.10	157.49
	19.15	134.24	60.34	104.15	-22.04	186.13
	22.40	154.89	69.78	120.17	-24.97	214.77
3.45	28.54	166.32	77.20	129.10	-20.12	230.60
	25.02	144.14	67.05	111.88	-17.01	199.85
	21.50	121.97	56.90	94.67	-13.90	169.11
	17.98	99.79	46.75	77.46	-10.79	138.36
	14.46	77.62	36.60	60.25	-7.67	107.61
	10.94	55.44	26.45	43.03	-4.56	76.87
	7.43	33.26	16.30	25.82	-1.45	46.12
	3.91	11.09	6.15	8.61	1.66	15.37
	-0.36	10.31	3.72	8.00	-4.44	14.30
	2.91	30.93	13.16	24.01	-7.34	42.89
	6.18	51.56	22.60	40.02	-10.23	71.48
	9.46	72.18	32.04	56.03	-13.13	100.08
	12.73	92.80	41.48	72.03	-16.02	128.67
	16.00	113.43	50.92	88.04	-18.92	157.26

	19.27	134.05	60.36	104.05	-21.81	185.86
	22.55	154.67	69.80	120.06	-24.71	214.45
3.50	28.73	166.01	77.21	128.91	-19.75	230.16
	25.19	143.87	67.06	111.72	-16.68	199.47
	21.65	121.74	56.91	94.53	-13.62	168.78
	18.10	99.60	46.76	77.35	-10.55	138.09
	14.56	77.47	36.61	60.16	-7.48	107.41
	11.02	55.34	26.46	42.97	-4.41	76.72
	7.48	33.20	16.31	25.78	-1.35	46.03
	3.94	11.07	6.16	8.59	1.72	15.34
	-0.37	10.30	3.71	8.00	-4.46	14.28
	2.92	30.89	13.16	23.99	-7.31	42.83
	6.22	51.49	22.60	39.98	-10.17	71.39
	9.51	72.09	32.04	55.98	-13.02	99.94
	12.81	92.68	41.49	71.97	-15.88	128.50
	16.10	113.28	50.93	87.97	-18.73	157.05
	19.40	133.87	60.38	103.96	-21.59	185.61
	22.69	154.47	69.82	119.95	-24.44	214.16
3.55	28.92	165.71	77.22	128.74	-19.38	229.74
	25.36	143.62	67.07	111.57	-16.36	199.11
	21.79	121.52	56.92	94.41	-13.34	168.48
	18.23	99.43	46.77	77.24	-10.31	137.84
	14.67	77.33	36.62	60.08	-7.29	107.21
	11.10	55.24	26.47	42.91	-4.27	76.58
	7.54	33.14	16.32	25.75	-1.24	45.95
	3.98	11.05	6.17	8.58	1.78	15.32
	-0.38	10.29	3.70	7.99	-4.47	14.26
	2.93	30.86	13.15	23.97	-7.29	42.78
	6.25	51.43	22.60	39.95	-10.10	71.30
	9.57	72.00	32.05	55.94	-12.92	99.82
	12.89	92.57	41.50	71.92	-15.73	128.34
	16.20	113.14	50.95	87.90	-18.55	156.86
	19.52	133.72	60.40	103.88	-21.36	185.38
	22.84	154.29	69.85	119.86	-24.18	213.90
3.60	29.11	165.44	77.25	128.58	-19.02	229.35
	25.53	143.38	67.09	111.44	-16.04	198.77
	21.94	121.32	56.94	94.29	-13.06	168.19
	18.35	99.26	46.79	77.15	-10.08	137.61
	14.77	77.20	36.64	60.01	-7.10	107.03
	11.18	55.15	26.49	42.86	-4.12	76.45
	7.60	33.09	16.34	25.72	-1.14	45.87
	4.01	11.03	6.18	8.57	1.84	15.29
	-0.40	10.27	3.70	7.99	-4.49	14.24
	2.94	30.82	13.15	23.96	-7.26	42.73
	6.28	51.37	22.61	39.93	-10.04	71.22

	9.63	71.92	32.07	55.90	-12.82	99.71
	12.97	92.47	41.52	71.87	-15.59	128.20
	16.31	113.02	50.98	87.84	-18.37	156.68
	19.65	133.57	60.44	103.82	-21.14	185.17
	22.99	154.12	69.89	119.79	-23.92	213.66
3.65	30.37	166.24	78.34	129.50	-17.60	230.42
	26.62	144.08	68.05	112.24	-14.80	199.70
	22.87	121.91	57.75	94.97	-12.01	168.97
	19.12	99.75	47.45	77.70	-9.21	138.25
	15.37	77.58	37.16	60.44	-6.42	107.53
	11.62	55.41	26.86	43.17	-3.62	76.81
	7.87	33.25	16.57	25.90	-0.83	46.08
	4.12	11.08	6.27	8.63	1.97	15.36
	-0.34	10.33	3.75	8.05	-4.44	14.32
	3.15	30.99	13.35	24.14	-7.04	42.96
	6.65	51.65	22.95	40.24	-9.65	71.59
	10.15	72.32	32.55	56.33	-12.25	100.23
	13.64	92.98	42.14	72.43	-14.86	128.87
	17.14	113.64	51.74	88.52	-17.46	157.51
	20.64	134.30	61.34	104.62	-20.07	186.14
	24.13	154.96	70.93	120.72	-22.67	214.78
3.70	30.58	166.01	78.39	129.38	-17.23	230.09
	26.80	143.88	68.09	112.13	-14.48	199.41
	23.03	121.74	57.79	94.88	-11.73	168.73
	19.25	99.61	47.49	77.63	-8.98	138.05
	15.48	77.47	37.19	60.38	-6.23	107.37
	11.70	55.34	26.88	43.13	-3.48	76.70
	7.93	33.20	16.58	25.88	-0.73	46.02
	4.15	11.07	6.28	8.63	2.02	15.34
	-0.35	10.32	3.75	8.04	-4.45	14.31
	3.17	30.97	13.35	24.13	-7.02	42.92
	6.69	51.61	22.96	40.22	-9.58	71.53
	10.21	72.26	32.57	56.31	-12.15	100.14
	13.73	92.90	42.18	72.40	-14.71	128.76
	17.25	113.54	51.78	88.49	-17.28	157.37
	20.77	134.19	61.39	104.58	-19.85	185.98
	24.29	154.83	71.00	120.67	-22.41	214.59
3.75	30.79	165.80	78.44	129.27	-16.87	229.78
	26.99	143.69	68.14	112.04	-14.16	199.14
	23.19	121.58	57.83	94.80	-11.45	168.50
	19.39	99.48	47.52	77.56	-8.75	137.87
	15.59	77.37	37.22	60.33	-6.04	107.23
	11.79	55.27	26.91	43.09	-3.33	76.59
	7.99	33.16	16.60	25.85	-0.63	45.96
	4.19	11.05	6.30	8.62	2.08	15.32

	-0.36	10.31	3.74	8.04	-4.47	14.30
	3.18	30.94	13.36	24.13	-7.00	42.89
	6.73	51.57	22.98	40.21	-9.52	71.48
	10.27	72.20	32.59	56.30	-12.05	100.07
	13.82	92.83	42.21	72.38	-14.57	128.66
	17.36	113.46	51.83	88.47	-17.10	157.25
	20.91	134.09	61.45	104.55	-19.63	185.84
	24.46	154.72	71.06	120.64	-22.15	214.43
3.80	31.00	165.60	78.50	129.18	-16.51	229.49
	27.17	143.52	68.19	111.95	-13.85	198.89
	23.35	121.44	57.88	94.73	-11.18	168.29
	19.52	99.36	47.56	77.51	-8.52	137.70
	15.70	77.28	37.25	60.28	-5.85	107.10
	11.87	55.20	26.94	43.06	-3.19	76.50
	8.05	33.12	16.63	25.84	-0.53	45.90
	4.23	11.04	6.31	8.61	2.14	15.30
	-0.38	10.31	3.73	8.04	-4.48	14.29
	3.20	30.92	13.36	24.12	-6.97	42.86
	6.77	51.54	22.99	40.20	-9.46	71.43
	10.34	72.16	32.62	56.29	-11.95	100.00
	13.91	92.77	42.25	72.37	-14.44	128.57
	17.48	113.39	51.88	88.45	-16.92	157.14
	21.05	134.00	61.51	104.53	-19.41	185.71
	24.62	154.62	71.14	120.61	-21.90	214.28
3.85	31.21	165.41	78.57	129.09	-16.15	229.23
	27.36	143.36	68.25	111.88	-13.53	198.66
	23.51	121.30	57.93	94.67	-10.91	168.10
	19.66	99.25	47.61	77.45	-8.29	137.54
	15.81	77.19	37.29	60.24	-5.67	106.97
	11.96	55.14	26.97	43.03	-3.05	76.41
	8.11	33.08	16.65	25.82	-0.43	45.85
	4.26	11.03	6.33	8.61	2.20	15.28
	-0.39	10.30	3.73	8.04	-4.50	14.28
	3.21	30.91	13.37	24.12	-6.95	42.83
	6.81	51.51	23.01	40.20	-9.40	71.38
	10.40	72.11	32.65	56.28	-11.85	99.94
	14.00	92.72	42.29	72.36	-14.30	128.49
	17.59	113.32	51.93	88.44	-16.75	157.04
	21.19	133.93	61.58	104.52	-19.20	185.60
	24.79	154.53	71.22	120.60	-21.65	214.15
3.90	32.53	166.35	79.75	130.12	-14.69	230.47
	28.51	144.17	69.27	112.77	-12.26	199.74
	24.48	121.99	58.80	95.42	-9.83	169.01
	20.46	99.81	48.32	78.07	-7.40	138.28
	16.44	77.63	37.85	60.72	-4.97	107.55

	12.42	55.45	27.37	43.37	-2.54	76.82
	8.40	33.27	16.89	26.02	-0.10	46.09
	4.37	11.09	6.42	8.67	2.33	15.36
	-0.33	10.37	3.79	8.11	-4.45	14.36
	3.43	31.10	13.58	24.33	-6.72	43.09
	7.19	51.83	23.38	40.54	-8.99	71.81
	10.95	72.56	33.17	56.76	-11.27	100.54
	14.71	93.30	42.96	72.98	-13.54	129.26
	18.47	114.03	52.75	89.20	-15.81	157.99
	22.23	134.76	62.55	105.41	-18.09	186.71
	25.99	155.49	72.34	121.63	-20.36	215.44
	32.75	166.20	79.84	130.07	-14.33	230.26
	28.70	144.04	69.35	112.72	-11.95	199.56
	24.65	121.88	58.87	95.38	-9.56	168.86
	20.61	99.72	48.38	78.04	-7.17	138.15
	16.56	77.56	37.89	60.70	-4.78	107.45
	12.51	55.40	27.41	43.36	-2.39	76.75
	8.46	33.24	16.92	26.01	0.00	46.05
	4.41	11.08	6.44	8.67	2.39	15.35
	-0.34	10.36	3.79	8.11	-4.46	14.36
	3.45	31.09	13.59	24.33	-6.70	43.07
	7.23	51.81	23.40	40.55	-8.93	71.78
	11.02	72.54	33.21	56.77	-11.17	100.50
	14.81	93.26	43.02	72.99	-13.40	129.21
	18.59	113.99	52.82	89.21	-15.63	157.93
	22.38	134.71	62.63	105.43	-17.87	186.64
	26.17	155.44	72.44	121.65	-20.10	215.35
	32.98	166.06	79.93	130.02	-13.98	230.06
	28.90	143.92	69.43	112.68	-11.63	199.39
	24.83	121.78	58.94	95.35	-9.29	168.71
	20.75	99.64	48.44	78.01	-6.94	138.04
	16.67	77.50	37.94	60.68	-4.59	107.36
	12.60	55.35	27.45	43.34	-2.25	76.69
	8.52	33.21	16.95	26.00	0.10	46.01
	4.45	11.07	6.45	8.67	2.44	15.34
	-0.35	10.36	3.78	8.11	-4.48	14.35
	3.46	31.08	13.61	24.33	-6.68	43.06
	7.28	51.80	23.43	40.56	-8.87	71.76
	11.09	72.52	33.25	56.78	-11.07	100.47
	14.91	93.24	43.07	73.00	-13.26	129.17
	18.72	113.96	52.90	89.22	-15.46	157.87
	22.53	134.68	62.72	105.45	-17.65	186.58
	26.35	155.40	72.54	121.67	-19.85	215.28
	33.20	165.94	80.03	129.98	-13.62	229.88
	29.10	143.81	69.52	112.65	-11.32	199.23

	25.00	121.69	59.01	95.32	-9.02	168.58
	20.90	99.56	48.50	77.99	-6.71	137.93
	16.79	77.44	38.00	60.66	-4.41	107.28
	12.69	55.31	27.49	43.33	-2.11	76.63
	8.59	33.19	16.98	26.00	0.20	45.98
	4.49	11.06	6.47	8.67	2.50	15.33
	-0.36	10.36	3.78	8.11	-4.50	14.35
	3.48	31.07	13.62	24.34	-6.65	43.05
	7.32	51.79	23.46	40.57	-8.81	71.74
	11.16	72.50	33.30	56.79	-10.97	100.44
	15.00	93.22	43.13	73.02	-13.12	129.14
	18.85	113.93	52.97	89.25	-15.28	157.84
	22.69	134.65	62.81	105.47	-17.44	186.53
	26.53	155.36	72.65	121.70	-19.59	215.23
4.10	33.53	165.92	80.23	130.05	-13.18	229.84
	29.38	143.80	69.69	112.71	-10.93	199.20
	25.24	121.68	59.16	95.37	-8.68	168.55
	21.10	99.55	48.63	78.03	-6.43	137.91
	16.96	77.43	38.10	60.69	-4.18	107.26
	12.81	55.31	27.56	43.35	-1.93	76.61
	8.67	33.18	17.03	26.01	0.32	45.97
	4.53	11.06	6.50	8.67	2.56	15.32
	-0.36	10.36	3.78	8.12	-4.51	14.35
	3.52	31.09	13.65	24.37	-6.62	43.06
	7.40	51.81	23.52	40.61	-8.72	71.77
	11.28	72.53	33.38	56.85	-10.83	100.48
	15.16	93.26	43.25	73.10	-12.93	129.19
	19.04	113.98	53.12	89.34	-15.04	157.89
	22.92	134.71	62.98	105.58	-17.15	186.60
	26.80	155.43	72.85	121.83	-19.25	215.31
4.15	33.76	165.82	80.34	130.03	-12.83	229.69
	29.59	143.71	69.79	112.69	-10.62	199.07
	25.42	121.60	59.24	95.36	-8.41	168.44
	21.25	99.49	48.70	78.02	-6.20	137.82
	17.08	77.38	38.15	60.68	-4.00	107.19
	12.91	55.27	27.61	43.34	-1.79	76.56
	8.74	33.16	17.06	26.01	0.42	45.94
	4.57	11.05	6.51	8.67	2.62	15.31
	-0.37	10.36	3.78	8.12	-4.53	14.35
	3.53	31.08	13.66	24.37	-6.59	43.06
	7.44	51.81	23.55	40.62	-8.66	71.76
	11.35	72.53	33.43	56.87	-10.73	100.47
	15.26	93.25	43.32	73.12	-12.80	129.17
	19.17	113.97	53.20	89.37	-14.87	157.88
	23.07	134.70	63.09	105.62	-16.94	186.58

	26.98	155.42	72.97	121.87	-19.00	215.29
4.20	33.99	165.73	80.45	130.02	-12.48	229.56
	29.79	143.64	69.89	112.68	-10.31	198.95
	25.59	121.54	59.33	95.35	-8.15	168.35
	21.40	99.44	48.77	78.01	-5.98	137.74
	17.20	77.34	38.21	60.68	-3.82	107.13
	13.00	55.24	27.65	43.34	-1.65	76.52
	8.80	33.15	17.09	26.00	0.51	45.91
	4.61	11.05	6.53	8.67	2.68	15.30
	-0.38	10.36	3.78	8.13	-4.54	14.35
	3.55	31.08	13.68	24.39	-6.57	43.05
	7.49	51.81	23.58	40.64	-8.60	71.76
	11.42	72.53	33.48	56.90	-10.63	100.46
	15.36	93.25	43.38	73.16	-12.66	129.16
	19.30	113.97	53.29	89.41	-14.69	157.87
	23.23	134.69	63.19	105.67	-16.73	186.57
	27.17	155.42	73.09	121.93	-18.76	215.27
4.25	34.22	165.65	80.57	130.02	-12.13	229.44
	29.99	143.57	70.00	112.68	-10.01	198.85
	25.77	121.48	59.42	95.35	-7.88	168.26
	21.54	99.39	48.85	78.01	-5.76	137.67
	17.32	77.31	38.27	60.68	-3.63	107.07
	13.09	55.22	27.70	43.34	-1.51	76.48
	8.87	33.13	17.13	26.00	0.61	45.89
	4.64	11.04	6.55	8.67	2.74	15.30
	-0.39	10.36	3.77	8.13	-4.56	14.35
	3.57	31.08	13.69	24.40	-6.55	43.05
	7.53	51.81	23.61	40.66	-8.55	71.76
	11.50	72.53	33.53	56.93	-10.54	100.46
	15.46	93.25	43.46	73.19	-12.53	129.16
	19.43	113.98	53.38	89.46	-14.52	157.87
	23.39	134.70	63.30	105.72	-16.52	186.57
	27.35	155.42	73.22	121.99	-18.51	215.27
4.30	34.45	165.59	80.69	130.02	-11.79	229.34
	30.20	143.51	70.10	112.69	-9.70	198.76
	25.95	121.43	59.52	95.35	-7.62	168.18
	21.69	99.35	48.93	78.01	-5.54	137.60
	17.44	77.27	38.34	60.68	-3.45	107.03
	13.19	55.20	27.75	43.34	-1.37	76.45
	8.94	33.12	17.16	26.00	0.71	45.87
	4.68	11.04	6.57	8.67	2.79	15.29
	-0.40	10.36	3.77	8.14	-4.58	14.35
	3.59	31.09	13.71	24.41	-6.53	43.06
	7.58	51.81	23.65	40.69	-8.49	71.76
	11.57	72.54	33.59	56.96	-10.44	100.47

	15.57	93.26	43.53	73.23	-12.40	129.17
	19.56	113.99	53.47	89.51	-14.35	157.88
	23.55	134.71	63.41	105.78	-16.31	186.58
	27.54	155.44	73.35	122.06	-18.26	215.29
4.35	34.69	165.53	80.82	130.04	-11.44	229.25
	30.41	143.46	70.22	112.70	-9.40	198.68
	26.13	121.39	59.61	95.36	-7.36	168.12
	21.85	99.32	49.01	78.02	-5.32	137.55
	17.56	77.25	38.40	60.68	-3.27	106.98
	13.28	55.18	27.80	43.35	-1.23	76.42
	9.00	33.11	17.20	26.01	0.81	45.85
	4.72	11.04	6.59	8.67	2.85	15.28
	-0.41	10.36	3.77	8.14	-4.60	14.35
	3.61	31.09	13.73	24.43	-6.51	43.06
	7.63	51.82	23.69	40.71	-8.43	71.77
	11.65	72.55	33.64	56.99	-10.35	100.48
	15.67	93.28	43.60	73.28	-12.27	129.19
	19.69	114.01	53.56	89.56	-14.18	157.89
	23.71	134.73	63.52	105.85	-16.10	186.60
	27.73	155.46	73.48	122.13	-18.02	215.31
	4.40	34.93	165.48	80.95	130.06	-11.10
30.62		143.41	70.33	112.72	-9.10	198.61
26.31		121.35	59.71	95.37	-7.10	168.06
22.00		99.29	49.09	78.03	-5.10	137.50
17.69		77.22	38.47	60.69	-3.10	106.95
13.38		55.16	27.85	43.35	-1.09	76.39
9.07		33.10	17.23	26.01	0.91	45.83
4.76		11.03	6.61	8.67	2.91	15.28
-0.42		10.37	3.77	8.15	-4.61	14.36
3.63		31.10	13.74	24.44	-6.49	43.07
7.67		51.83	23.72	40.74	-8.37	71.78
11.72		72.56	33.70	57.03	-10.26	100.49
15.77		93.30	43.68	73.33	-12.14	129.21
19.82		114.03	53.66	89.62	-14.02	157.92
23.87		134.76	63.64	105.92	-15.90	186.63
27.92	155.49	73.62	122.21	-17.78	215.34	
4.45	35.16	165.44	81.09	130.08	-10.76	229.10
	30.82	143.38	70.45	112.74	-8.80	198.56
	26.49	121.32	59.81	95.39	-6.84	168.01
	22.15	99.26	49.18	78.05	-4.88	137.46
	17.81	77.20	38.54	60.71	-2.92	106.92
	13.47	55.15	27.91	43.36	-0.96	76.37
	9.14	33.09	17.27	26.02	1.00	45.82
	4.80	11.03	6.63	8.67	2.97	15.27
	-0.43	10.37	3.76	8.15	-4.63	14.36

	3.64	31.11	13.76	24.46	-6.47	43.08
	7.72	51.84	23.76	40.77	-8.32	71.80
	11.80	72.58	33.76	57.07	-10.16	100.51
	15.88	93.32	43.76	73.38	-12.01	129.23
	19.96	114.06	53.76	89.68	-13.85	157.95
	24.03	134.80	63.76	105.99	-15.69	186.67
	28.11	155.53	73.76	122.30	-17.54	215.39
4.50	36.72	166.72	82.54	131.44	-9.10	230.83
	32.18	144.49	71.71	113.91	-7.36	200.05
	27.64	122.26	60.89	96.39	-5.61	169.28
	23.09	100.03	50.06	78.86	-3.87	138.50
	18.55	77.80	39.23	61.34	-2.12	107.72
	14.01	55.57	28.40	43.81	-0.38	76.94
	9.47	33.34	17.57	26.29	1.37	46.17
	4.93	11.11	6.74	8.76	3.11	15.39
	-0.36	10.45	3.84	8.24	-4.57	14.47
	3.91	31.36	14.03	24.73	-6.21	43.42
	8.18	52.27	24.21	41.21	-7.85	72.37
	12.45	73.18	34.40	57.69	-9.49	101.32
	16.73	94.09	44.59	74.18	-11.13	130.27
	21.00	115.00	54.77	90.66	-12.77	159.22
	25.27	135.91	64.96	107.14	-14.41	188.17
	29.54	156.82	75.14	123.63	-16.06	217.12

A2.1.6.- Cercha con 18 divisiones del cordón

En la Figura 6 se indica el cálculo de la cercha con el cordón dividido en 18 espacios para alturas desde 50cm hasta 450cm con intervalos de 5cm, con el software Matlab2018.

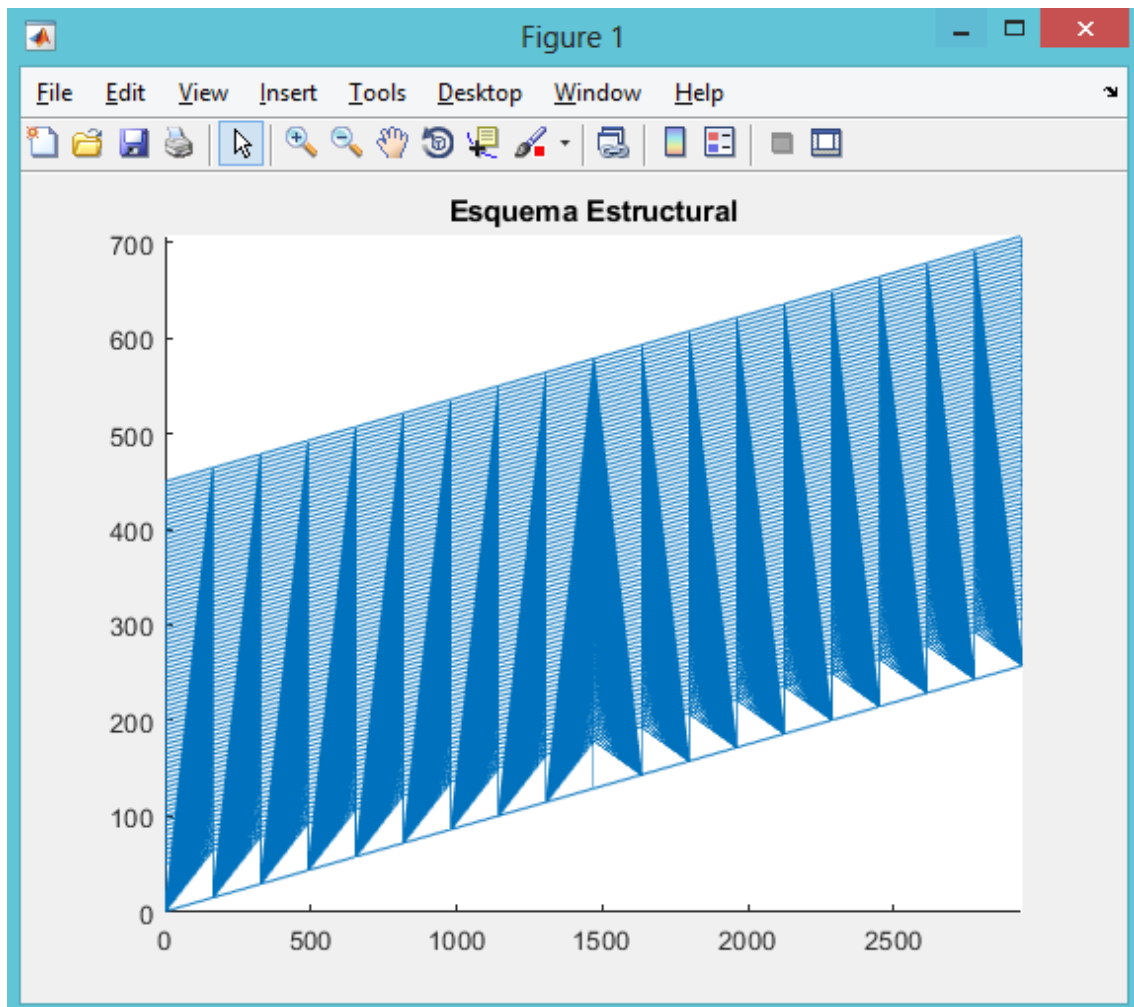


Figura 6. Cercha con el cordón dividido en 18 espacios (ejes en cm)

En la Tabla 21 se muestran las combinaciones de esfuerzos para el cordón inferior en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 21. Combinación de esfuerzos del cordón inferior - 18 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)
0.50	163.14	1113.25	499.83	858.67	-173.55	1544.40
	105.59	709.25	319.27	547.05	-108.09	983.93
	55.60	359.11	162.72	276.99	-51.53	498.19
	13.16	62.84	30.19	48.47	-3.87	87.18
	-179.56	-21.72	-138.49	-78.32	-249.10	34.89
	-368.09	-49.04	-283.91	-162.82	-510.65	64.74
	-502.76	-68.80	-387.78	-223.29	-697.47	85.69
	-583.56	-81.00	-450.11	-259.75	-809.56	97.74
	-610.49	-85.65	-470.88	-272.20	-846.93	100.89
	-610.49	-85.65	-470.88	-272.20	-846.93	100.89
	-583.56	-82.74	-450.11	-260.62	-809.56	95.14
	-502.76	-72.28	-387.78	-225.03	-697.47	80.48

	-368.09	-54.25	-283.91	-165.42	-510.65	56.92
	-179.56	-28.67	-138.49	-81.80	-249.10	24.46
	4.47	62.84	25.85	48.47	-16.90	87.18
	45.17	359.11	157.51	276.99	-67.17	498.19
	93.43	709.25	313.19	547.05	-126.34	983.93
	149.24	1113.25	492.88	858.67	-194.41	1544.40
0.55	140.13	1003.23	445.90	771.79	-165.64	1392.10
	90.93	639.16	284.91	491.71	-103.05	886.90
	48.17	323.62	145.32	248.96	-48.98	449.06
	11.86	56.63	27.15	43.57	-3.42	78.59
	-161.81	-18.00	-124.48	-69.62	-224.53	33.61
	-331.71	-41.43	-255.19	-144.98	-460.29	62.13
	-453.07	-58.41	-348.55	-198.93	-628.69	82.12
	-525.89	-68.94	-404.57	-231.48	-729.73	93.60
	-550.16	-73.03	-423.24	-242.62	-763.41	96.55
	-550.16	-73.03	-423.24	-242.62	-763.41	96.55
	-525.89	-70.68	-404.57	-232.35	-729.73	90.99
	-453.07	-61.88	-348.55	-200.67	-628.69	76.91
	-331.71	-46.64	-255.19	-147.59	-460.29	54.31
	-161.81	-24.96	-124.48	-73.10	-224.53	23.18
	3.17	56.63	22.80	43.57	-16.46	78.59
	37.75	323.62	140.11	248.96	-64.62	449.06
	78.76	639.16	278.82	491.71	-121.30	886.90
	126.23	1003.23	438.95	771.79	-186.50	1392.10
0.60	114.93	905.53	394.93	693.37	-165.07	1257.06
	74.88	576.91	252.43	441.75	-102.68	800.87
	40.05	292.11	128.88	223.67	-48.79	405.50
	10.44	51.12	24.27	39.14	-3.39	70.96
	-146.05	-13.94	-111.83	-61.40	-202.75	33.52
	-299.41	-33.10	-229.26	-128.13	-415.64	61.94
	-408.95	-47.03	-313.14	-175.92	-567.70	81.86
	-474.67	-55.73	-363.46	-204.76	-658.94	93.30
	-496.58	-59.21	-380.24	-214.67	-689.35	96.24
	-496.58	-59.21	-380.24	-214.67	-689.35	96.24
	-474.67	-57.47	-363.46	-205.63	-658.94	90.69
	-408.95	-50.50	-313.14	-177.65	-567.70	76.65
	-299.41	-38.31	-229.26	-130.74	-415.64	54.12
	-146.05	-20.89	-111.83	-64.88	-202.75	23.09
	1.75	51.12	19.93	39.14	-16.42	70.96
	29.62	292.11	123.67	223.67	-64.43	405.50
	62.71	576.91	246.35	441.75	-120.93	800.87
	101.03	905.53	387.98	693.37	-185.92	1257.06
0.65	101.63	830.88	359.83	635.05	-156.56	1153.62
	66.40	529.35	230.07	404.59	-97.26	734.97
	35.76	268.03	117.56	204.85	-46.05	372.14

	9.69	46.90	22.29	35.85	-2.91	65.12
	-134.01	-11.80	-102.43	-55.74	-186.07	32.15
	-274.73	-28.70	-209.98	-116.52	-381.44	59.12
	-375.24	-41.02	-286.80	-160.06	-520.99	78.02
	-435.54	-48.76	-332.89	-186.36	-604.72	88.84
	-455.65	-51.92	-348.25	-195.42	-632.63	91.57
	-455.65	-51.92	-348.25	-195.42	-632.63	91.57
	-435.54	-50.50	-332.89	-187.23	-604.72	86.23
	-375.24	-44.50	-286.80	-161.80	-520.99	72.81
	-274.73	-33.91	-209.98	-119.13	-381.44	51.30
	-134.01	-18.75	-102.43	-59.21	-186.07	21.72
	1.00	46.90	17.94	35.85	-15.94	65.12
	25.33	268.03	112.34	204.85	-61.69	372.14
	54.24	529.35	223.99	404.59	-115.51	734.97
	87.73	830.88	352.87	635.05	-177.41	1153.62
0.70	86.88	763.54	326.38	581.69	-152.62	1060.43
	57.00	486.45	208.76	370.59	-94.76	675.60
	31.00	246.30	106.77	187.64	-44.78	342.07
	8.86	43.10	20.40	32.84	-2.69	59.86
	-123.15	-9.42	-93.82	-50.34	-171.04	31.51
	-252.46	-23.82	-192.33	-105.46	-350.63	57.82
	-344.82	-34.36	-262.70	-144.96	-478.90	76.24
	-400.24	-41.03	-304.92	-168.83	-555.87	86.77
	-418.72	-43.83	-318.99	-177.08	-581.53	89.42
	-418.72	-43.83	-318.99	-177.08	-581.53	89.42
	-400.24	-42.77	-304.92	-169.70	-555.87	84.17
	-344.82	-37.83	-262.70	-146.70	-478.90	71.03
	-252.46	-29.03	-192.33	-108.07	-350.63	50.00
	-123.15	-16.37	-93.82	-53.82	-171.04	21.08
	0.17	43.10	16.06	32.84	-15.72	59.86
	20.57	246.30	101.56	187.64	-60.42	342.07
	44.84	486.45	202.68	370.59	-113.00	675.60
72.97	763.54	319.43	581.69	-173.48	1060.43	
0.75	82.42	713.51	305.72	543.78	-140.88	990.91
	54.16	454.57	195.60	346.44	-87.28	631.30
	29.56	230.16	100.11	175.41	-40.99	319.65
	8.61	40.28	19.23	30.70	-2.02	55.94
	-115.08	-8.70	-87.71	-47.01	-159.82	29.62
	-235.92	-22.35	-179.80	-98.63	-327.64	53.94
	-322.23	-32.34	-245.58	-135.63	-447.51	70.94
	-374.02	-38.69	-285.05	-158.00	-519.43	80.62
	-391.28	-41.39	-298.20	-165.75	-543.40	82.98
	-391.28	-41.39	-298.20	-165.75	-543.40	82.98
	-374.02	-40.43	-285.05	-158.87	-519.43	78.01
	-322.23	-35.82	-245.58	-137.37	-447.51	65.73

	-235.92	-27.56	-179.80	-101.24	-327.64	46.12
	-115.08	-15.65	-87.71	-50.49	-159.82	19.19
	-0.08	40.28	14.89	30.70	-15.06	55.94
	19.13	230.16	94.89	175.41	-56.63	319.65
	42.00	454.57	189.52	346.44	-105.52	631.30
	68.52	713.51	298.77	543.78	-161.74	990.91
0.80	72.46	663.67	281.59	504.55	-136.67	921.90
	47.82	422.82	180.23	321.45	-84.59	587.34
	26.34	214.09	92.32	162.76	-39.63	297.39
	8.04	37.47	17.87	28.48	-1.79	52.04
	-107.04	-7.09	-81.38	-43.12	-148.69	28.94
	-219.44	-19.05	-166.83	-90.65	-304.82	52.55
	-299.72	-27.85	-227.86	-124.73	-416.34	69.04
	-347.89	-33.47	-264.48	-145.35	-483.25	78.41
	-363.95	-35.92	-276.69	-152.51	-505.56	80.67
	-363.95	-35.92	-276.69	-152.51	-505.56	80.67
	-347.89	-35.21	-264.48	-146.22	-483.25	75.81
	-299.72	-31.32	-227.86	-126.47	-416.34	63.83
	-219.44	-24.27	-166.83	-93.26	-304.82	44.73
	-107.04	-14.04	-81.38	-46.59	-148.69	18.51
	-0.65	37.47	13.53	28.48	-14.82	52.04
	15.92	214.09	87.11	162.76	-55.27	297.39
	35.65	422.82	174.14	321.45	-102.84	587.34
	58.55	663.67	274.64	504.55	-157.53	921.90
0.85	69.38	625.40	266.00	475.65	-127.25	868.71
	45.85	398.44	170.30	303.03	-78.59	553.45
	25.35	201.74	87.29	153.43	-36.59	280.23
	7.87	35.30	16.99	26.85	-1.25	49.04
	-100.87	-6.59	-76.72	-40.60	-140.11	27.42
	-206.79	-18.03	-157.27	-85.50	-287.23	49.43
	-282.44	-26.45	-214.81	-117.69	-392.32	64.78
	-327.83	-31.85	-249.33	-137.18	-455.37	73.47
	-342.96	-34.23	-260.84	-143.97	-476.39	75.50
	-342.96	-34.23	-260.84	-143.97	-476.39	75.50
	-327.83	-33.59	-249.33	-138.05	-455.37	70.86
	-282.44	-29.93	-214.81	-119.43	-392.32	59.57
	-206.79	-23.25	-157.27	-88.11	-287.23	41.61
	-100.87	-13.54	-76.72	-44.08	-140.11	16.99
	-0.82	35.30	12.65	26.85	-14.29	49.04
	14.92	201.74	82.08	153.43	-52.23	280.23
	33.69	398.44	164.21	303.03	-96.84	553.45
	55.47	625.40	259.05	475.65	-148.10	868.71
0.90	61.21	585.95	246.71	444.52	-124.30	814.10
	40.65	373.31	158.01	283.20	-76.71	518.66
	22.72	189.02	81.07	143.39	-35.64	262.61

	7.41	33.08	15.90	25.09	-1.09	45.96
	-94.51	-5.27	-71.70	-37.49	-131.31	26.94
	-193.74	-15.33	-146.98	-79.12	-269.18	48.46
	-264.62	-22.76	-200.75	-108.98	-367.66	63.45
	-307.15	-27.57	-233.01	-127.07	-426.75	71.93
	-321.33	-29.75	-243.77	-133.39	-446.44	73.88
	-321.33	-29.75	-243.77	-133.39	-446.44	73.88
	-307.15	-29.31	-233.01	-127.94	-426.75	69.32
	-264.62	-26.24	-200.75	-110.72	-367.66	58.24
	-193.74	-20.55	-146.98	-81.73	-269.18	40.64
	-94.51	-12.23	-71.70	-40.97	-131.31	16.52
	-1.28	33.08	11.56	25.09	-14.12	45.96
	12.29	189.02	75.86	143.39	-51.28	262.61
	28.48	373.31	151.92	283.20	-94.96	518.66
	47.30	585.95	239.76	444.52	-145.16	814.10
0.95	59.04	555.80	234.60	421.81	-116.52	772.18
	39.27	354.10	150.29	268.74	-71.75	491.96
	22.02	179.29	77.16	136.07	-33.13	249.09
	7.29	31.38	15.22	23.81	-0.65	43.59
	-89.65	-4.93	-68.03	-35.54	-124.55	25.69
	-183.77	-14.62	-139.47	-75.12	-255.32	45.89
	-251.01	-21.79	-190.50	-103.51	-348.73	59.94
	-291.35	-26.44	-221.11	-120.72	-404.77	67.85
	-304.80	-28.56	-231.32	-126.75	-423.46	69.62
	-304.80	-28.56	-231.32	-126.75	-423.46	69.62
	-291.35	-28.17	-221.11	-121.59	-404.77	65.24
	-251.01	-25.26	-190.50	-105.25	-348.73	54.72
	-183.77	-19.83	-139.47	-77.72	-255.32	38.06
	-89.65	-11.88	-68.03	-39.02	-124.55	15.26
	-1.40	31.38	10.87	23.81	-13.68	43.59
	11.59	179.29	71.95	136.07	-48.77	249.09
	27.10	354.10	144.21	268.74	-90.00	491.96
45.14	555.80	227.65	421.81	-137.38	772.18	
1.00	56.82	528.40	223.43	401.11	-109.79	734.10
	37.86	336.64	143.17	255.55	-67.46	467.69
	21.30	170.45	73.56	129.39	-30.96	236.81
	7.16	29.83	14.59	22.64	-0.27	41.44
	-85.23	-4.57	-64.70	-33.74	-118.40	24.60
	-174.71	-13.88	-132.62	-71.42	-242.73	43.66
	-238.63	-20.78	-181.15	-98.47	-331.53	56.90
	-276.98	-25.27	-210.26	-114.86	-384.81	64.32
	-289.77	-27.35	-219.96	-120.62	-402.57	65.92
	-289.77	-27.35	-219.96	-120.62	-402.57	65.92
	-276.98	-27.01	-210.26	-115.73	-384.81	61.71
	-238.63	-24.26	-181.15	-100.20	-331.53	51.68

	-174.71	-19.10	-132.62	-74.03	-242.73	35.84
	-85.23	-11.52	-64.70	-37.21	-118.40	14.18
	-1.53	29.83	10.24	22.64	-13.30	41.44
	10.87	170.45	68.35	129.39	-46.60	236.81
	25.69	336.64	137.09	255.55	-85.71	467.69
	42.92	528.40	216.48	401.11	-130.64	734.10
1.05	52.19	500.98	210.70	379.75	-106.32	696.09
	34.90	319.17	135.06	241.94	-65.26	443.48
	19.81	161.61	69.45	122.50	-29.84	224.55
	6.90	28.28	13.87	21.44	-0.07	39.30
	-80.80	-3.82	-61.25	-31.69	-112.27	24.04
	-165.65	-12.35	-125.56	-67.21	-230.16	42.51
	-226.25	-18.69	-171.50	-92.72	-314.36	55.33
	-262.61	-22.84	-199.06	-108.19	-364.89	62.50
	-274.73	-24.81	-208.25	-113.64	-381.73	64.02
	-274.73	-24.81	-208.25	-113.64	-381.73	64.02
	-262.61	-24.58	-199.06	-109.06	-364.89	59.89
	-226.25	-22.17	-171.50	-94.45	-314.36	50.12
	-165.65	-17.56	-125.56	-69.82	-230.16	34.69
	-80.80	-10.77	-61.25	-35.16	-112.27	13.62
	-1.79	28.28	9.53	21.44	-13.11	39.30
	9.38	161.61	64.24	122.50	-45.48	224.55
	22.74	319.17	128.98	241.94	-83.50	443.48
	38.29	500.98	203.75	379.75	-127.17	696.09
1.10	50.75	478.83	201.90	363.11	-100.39	665.28
	33.99	305.06	129.46	231.33	-61.48	423.85
	19.34	154.46	66.61	117.13	-27.93	214.61
	6.82	27.03	13.37	20.50	0.26	37.56
	-77.23	-3.59	-58.57	-30.27	-107.30	23.09
	-158.32	-11.88	-120.06	-64.30	-219.97	40.55
	-216.24	-18.04	-163.98	-88.74	-300.45	52.66
	-251.00	-22.09	-190.34	-103.58	-348.74	59.40
	-262.58	-24.02	-199.12	-108.81	-364.83	60.77
	-262.58	-24.02	-199.12	-108.81	-364.83	60.77
	-251.00	-23.83	-190.34	-104.45	-348.74	56.79
	-216.24	-21.52	-163.98	-90.48	-300.45	47.44
	-158.32	-17.09	-120.06	-66.91	-219.97	32.73
	-77.23	-10.54	-58.57	-33.74	-107.30	12.66
	-1.87	27.03	9.03	20.50	-12.77	37.56
	8.92	154.46	61.40	117.13	-43.57	214.61
	21.82	305.06	123.37	231.33	-79.73	423.85
	36.85	478.83	194.95	363.11	-121.25	665.28
1.15	49.44	458.61	193.87	347.92	-94.98	637.17
	33.16	292.18	124.34	221.66	-58.03	405.94
	18.92	147.94	64.02	112.23	-26.18	205.54

	6.74	25.89	12.92	19.64	0.57	35.97
	-73.97	-3.38	-56.12	-28.97	-102.77	22.21
	-151.64	-11.44	-115.04	-61.65	-210.68	38.76
	-207.11	-17.45	-157.12	-85.11	-287.75	50.21
	-240.40	-21.41	-182.38	-99.37	-334.00	56.56
	-251.49	-23.30	-190.79	-104.41	-349.41	57.80
	-251.49	-23.30	-190.79	-104.41	-349.41	57.80
	-240.40	-23.14	-182.38	-100.24	-334.00	53.95
	-207.11	-20.93	-157.12	-86.85	-287.75	45.00
	-151.64	-16.66	-115.04	-64.26	-210.68	30.94
	-73.97	-10.33	-56.12	-32.45	-102.77	11.79
	-1.95	25.89	8.58	19.64	-12.47	35.97
	8.49	147.94	58.81	112.23	-41.82	205.54
	20.99	292.18	118.26	221.66	-76.28	405.94
	35.54	458.61	186.92	347.92	-115.83	637.17
1.20	47.79	439.62	186.05	333.54	-90.47	610.78
	32.10	280.08	119.36	212.50	-55.16	389.12
	18.39	141.81	61.50	107.59	-24.73	197.02
	6.65	24.82	12.48	18.83	0.82	34.48
	-70.91	-3.11	-53.80	-27.71	-98.51	21.49
	-145.36	-10.90	-110.28	-59.06	-201.95	37.27
	-198.54	-16.71	-150.63	-81.59	-275.83	48.17
	-230.44	-20.54	-174.84	-95.27	-320.16	54.19
	-241.08	-22.40	-182.91	-100.12	-334.94	55.33
	-241.08	-22.40	-182.91	-100.12	-334.94	55.33
	-230.44	-22.28	-174.84	-96.14	-320.16	51.59
	-198.54	-20.18	-150.63	-83.32	-275.83	42.96
	-145.36	-16.11	-110.28	-61.67	-201.95	29.45
	-70.91	-10.06	-53.80	-31.19	-98.51	11.06
	-2.04	24.82	8.13	18.83	-12.21	34.48
	7.96	141.81	56.29	107.59	-40.37	197.02
	19.94	280.08	113.28	212.50	-73.41	389.12
	33.89	439.62	179.10	333.54	-111.32	610.78
1.25	46.72	422.59	179.31	320.76	-85.87	587.10
	31.42	269.23	115.07	204.35	-52.23	374.04
	18.04	136.32	59.33	103.47	-23.24	189.39
	6.59	23.86	12.10	18.11	1.08	33.14
	-68.16	-2.94	-51.74	-26.62	-94.69	20.75
	-139.73	-10.54	-106.06	-56.84	-194.12	35.75
	-190.85	-16.22	-144.86	-78.54	-265.14	46.10
	-221.52	-19.98	-168.14	-91.74	-307.76	51.78
	-231.74	-21.81	-175.90	-96.43	-321.96	52.81
	-231.74	-21.81	-175.90	-96.43	-321.96	52.81
	-221.52	-21.71	-168.14	-92.61	-307.76	49.18
	-190.85	-19.70	-144.86	-80.28	-265.14	40.88

	-139.73	-15.76	-106.06	-59.44	-194.12	27.93
	-68.16	-9.89	-51.74	-30.10	-94.69	10.32
	-2.10	23.86	7.75	18.11	-11.95	33.14
	7.61	136.32	54.11	103.47	-38.89	189.39
	19.25	269.23	108.98	204.35	-70.48	374.04
	32.82	422.59	172.36	320.76	-106.73	587.10
1.30	43.61	404.75	170.96	306.84	-83.75	562.38
	29.43	257.87	109.75	195.48	-50.88	358.29
	17.04	130.57	56.64	98.98	-22.56	181.41
	6.41	22.85	11.63	17.32	1.20	31.75
	-65.28	-2.44	-49.49	-25.28	-90.71	20.40
	-133.83	-9.51	-101.45	-54.08	-185.95	35.05
	-182.79	-14.82	-138.57	-74.77	-253.98	45.14
	-212.17	-18.34	-160.84	-87.36	-294.80	50.67
	-221.96	-20.10	-168.27	-91.85	-308.40	51.65
	-221.96	-20.10	-168.27	-91.85	-308.40	51.65
	-212.17	-20.08	-160.84	-88.23	-294.80	48.07
	-182.79	-18.29	-138.57	-76.51	-253.98	39.93
	-133.83	-14.73	-101.45	-56.68	-185.95	27.23
	-65.28	-9.39	-49.49	-28.75	-90.71	9.98
	-2.28	22.85	7.28	17.32	-11.83	31.75
	6.61	130.57	51.42	98.98	-38.20	181.41
	17.27	257.87	103.66	195.48	-69.13	358.29
	29.70	404.75	164.01	306.84	-104.61	562.38
1.35	42.78	390.29	165.29	296.00	-79.74	542.27
	28.91	248.65	106.13	188.58	-48.32	345.48
	16.77	125.90	54.80	95.48	-21.26	174.93
	6.37	22.03	11.31	16.71	1.43	30.61
	-62.95	-2.30	-47.74	-24.36	-87.46	19.76
	-129.05	-9.24	-97.87	-52.20	-179.30	33.72
	-176.26	-14.44	-133.68	-72.21	-244.90	43.33
	-204.59	-17.91	-155.16	-84.39	-284.25	48.57
	-214.03	-19.65	-162.32	-88.74	-297.37	49.44
	-214.03	-19.65	-162.32	-88.74	-297.37	49.44
	-204.59	-19.65	-155.16	-85.26	-284.25	45.96
	-176.26	-17.92	-133.68	-73.95	-244.90	38.11
	-129.05	-14.45	-97.87	-54.81	-179.30	25.90
	-62.95	-9.25	-47.74	-27.84	-87.46	9.33
	-2.32	22.03	6.96	16.71	-11.61	30.61
	6.34	125.90	49.59	95.48	-36.91	174.93
	16.74	248.65	100.05	188.58	-66.57	345.48
	28.87	390.29	158.34	296.00	-100.59	542.27
1.40	42.01	376.87	160.02	285.94	-76.00	523.60
	28.42	240.10	102.78	182.17	-45.94	333.58
	16.52	121.57	53.11	92.24	-20.06	168.90

	6.32	21.27	11.01	16.14	1.64	29.56
	-60.79	-2.18	-46.12	-23.51	-84.45	19.15
	-124.61	-8.99	-94.55	-50.46	-173.12	32.49
	-170.20	-14.10	-129.14	-69.83	-236.46	41.64
	-197.55	-17.51	-149.89	-81.63	-274.47	46.61
	-206.67	-19.23	-156.81	-85.85	-287.13	47.40
	-206.67	-19.23	-156.81	-85.85	-287.13	47.40
	-197.55	-19.25	-149.89	-82.50	-274.47	44.00
	-170.20	-17.57	-129.14	-71.57	-236.46	36.43
	-124.61	-14.20	-94.55	-53.07	-173.12	24.67
	-60.79	-9.13	-46.12	-26.99	-84.45	8.73
	-2.37	21.27	6.66	16.14	-11.40	29.56
	6.10	121.57	47.89	92.24	-35.70	168.90
	16.25	240.10	96.70	182.17	-64.19	333.58
	28.11	376.87	153.07	285.94	-96.86	523.60
1.45	41.30	364.37	155.13	276.58	-72.52	506.22
	27.97	232.14	99.66	176.21	-43.72	322.51
	16.29	117.54	51.53	89.22	-18.94	163.30
	6.28	20.57	10.73	15.61	1.83	28.58
	-58.77	-2.06	-44.61	-22.72	-81.65	18.59
	-120.48	-8.75	-91.45	-48.84	-167.38	31.34
	-164.56	-13.78	-124.91	-67.62	-228.61	40.07
	-191.00	-17.14	-144.98	-79.06	-265.35	44.78
	-199.82	-18.84	-151.68	-83.16	-277.60	45.49
	-199.82	-18.84	-151.68	-83.16	-277.60	45.49
	-191.00	-18.88	-144.98	-79.93	-265.35	42.18
	-164.56	-17.25	-124.91	-69.36	-228.61	34.85
	-120.48	-13.96	-91.45	-51.45	-167.38	23.52
	-58.77	-9.02	-44.61	-26.20	-81.65	8.16
	-2.41	20.57	6.39	15.61	-11.20	28.58
	5.87	117.54	46.31	89.22	-34.58	163.30
	15.80	232.14	93.57	176.21	-61.97	322.51
	27.40	364.37	148.17	276.58	-93.38	506.22
1.50	40.65	352.71	150.56	267.85	-69.27	490.00
	27.55	224.71	96.75	170.65	-41.65	312.18
	16.08	113.78	50.05	86.40	-17.89	158.06
	6.25	19.91	10.48	15.12	2.02	27.66
	-56.89	-1.96	-43.20	-21.99	-79.03	18.07
	-116.62	-8.53	-88.56	-47.33	-162.02	30.26
	-159.29	-13.48	-120.97	-65.56	-221.29	38.60
	-184.89	-16.79	-140.41	-76.67	-256.85	43.08
	-193.42	-18.48	-146.89	-80.66	-268.71	43.70
	-193.42	-18.48	-146.89	-80.66	-268.71	43.70
	-184.89	-18.53	-140.41	-77.53	-256.85	40.47
	-159.29	-16.95	-120.97	-67.29	-221.29	33.38

	-116.62	-13.75	-88.56	-49.94	-162.02	22.44
	-56.89	-8.91	-43.20	-25.46	-79.03	7.64
	-2.44	19.91	6.13	15.12	-11.02	27.66
	5.65	113.78	44.84	86.40	-33.53	158.06
	15.38	224.71	90.66	170.65	-59.90	312.18
	26.74	352.71	143.61	267.85	-90.12	490.00
1.55	40.03	341.81	146.29	259.69	-66.22	474.83
	27.16	217.77	94.03	165.45	-39.71	302.52
	15.89	110.26	48.68	83.77	-16.91	153.17
	6.21	19.30	10.23	14.66	2.19	26.81
	-55.13	-1.86	-41.88	-21.30	-76.59	17.58
	-113.02	-8.33	-85.86	-45.92	-157.00	29.25
	-154.37	-13.20	-117.28	-63.63	-214.44	37.22
	-179.17	-16.47	-136.13	-74.43	-248.91	41.48
	-187.44	-18.14	-142.41	-78.32	-260.39	42.03
	-187.44	-18.14	-142.41	-78.32	-260.39	42.03
	-179.17	-18.21	-136.13	-75.30	-248.91	38.88
	-154.37	-16.68	-117.28	-65.37	-214.44	32.01
	-113.02	-13.55	-85.86	-48.52	-157.00	21.43
	-55.13	-8.81	-41.88	-24.77	-76.59	7.15
	-2.48	19.30	5.89	14.66	-10.84	26.81
	5.46	110.26	43.46	83.77	-32.55	153.17
	14.99	217.77	87.94	165.45	-57.96	302.52
	26.13	341.81	139.34	259.69	-87.08	474.83
1.60	39.46	331.59	142.29	252.03	-63.36	460.62
	26.80	211.26	91.48	160.57	-37.89	293.46
	15.70	106.97	47.39	81.30	-15.98	148.59
	6.18	18.72	10.01	14.23	2.35	26.00
	-53.48	-1.77	-40.65	-20.65	-74.29	17.12
	-109.64	-8.14	-83.33	-44.59	-152.30	28.31
	-149.75	-12.94	-113.82	-61.82	-208.02	35.93
	-173.82	-16.17	-132.11	-72.33	-241.45	39.98
	-181.84	-17.83	-138.21	-76.12	-252.60	40.47
	-181.84	-17.83	-138.21	-76.12	-252.60	40.47
	-173.82	-17.91	-132.11	-73.20	-241.45	37.38
	-149.75	-16.42	-113.82	-63.56	-208.02	30.72
	-109.64	-13.36	-83.33	-47.20	-152.30	20.49
	-53.48	-8.72	-40.65	-24.13	-74.29	6.69
	-2.51	18.72	5.66	14.23	-10.68	26.00
	5.27	106.97	42.17	81.30	-31.62	148.59
	14.63	211.26	85.40	160.57	-56.14	293.46
	25.56	331.59	135.34	252.03	-84.22	460.62
1.65	38.93	322.00	138.53	244.85	-60.68	447.27
	26.46	205.14	89.09	155.99	-36.18	284.96
	15.53	103.87	46.17	78.98	-15.12	144.28

	6.15	18.18	9.80	13.82	2.50	25.25
	-51.93	-1.68	-39.49	-20.05	-72.14	16.68
	-106.47	-7.97	-80.96	-43.35	-147.89	27.42
	-145.42	-12.70	-110.58	-60.13	-201.99	34.72
	-168.79	-15.89	-128.35	-70.36	-234.46	38.58
	-176.58	-17.54	-134.27	-74.06	-245.28	38.99
	-176.58	-17.54	-134.27	-74.06	-245.28	38.99
	-168.79	-17.63	-128.35	-71.23	-234.46	35.97
	-145.42	-16.18	-110.58	-61.86	-201.99	29.50
	-106.47	-13.18	-80.96	-45.96	-147.89	19.60
	-51.93	-8.63	-39.49	-23.52	-72.14	6.25
	-2.54	18.18	5.45	13.82	-10.53	25.25
	5.10	103.87	40.96	78.98	-30.76	144.28
	14.29	205.14	83.00	155.99	-54.42	284.96
	25.03	322.00	131.58	244.85	-81.53	447.27
1.70	38.43	312.97	135.00	238.09	-58.14	434.71
	26.14	199.39	86.84	151.69	-34.56	276.95
	15.37	100.96	45.04	76.80	-14.30	140.23
	6.12	17.67	9.60	13.44	2.65	24.54
	-50.48	-1.60	-38.40	-19.48	-70.12	16.27
	-103.48	-7.80	-78.72	-42.19	-143.74	26.58
	-141.34	-12.48	-107.52	-58.53	-196.32	33.57
	-164.06	-15.63	-124.80	-68.51	-227.87	37.25
	-171.63	-17.26	-130.56	-72.13	-238.39	37.60
	-171.63	-17.26	-130.56	-72.13	-238.39	37.60
	-164.06	-17.37	-124.80	-69.38	-227.87	34.64
	-141.34	-15.95	-107.52	-60.27	-196.32	28.36
	-103.48	-13.02	-78.72	-44.79	-143.74	18.76
	-50.48	-8.55	-38.40	-22.95	-70.12	5.85
	-2.57	17.67	5.25	13.44	-10.39	24.54
	4.94	100.96	39.82	76.80	-29.94	140.23
	13.97	199.39	80.75	151.69	-52.81	276.95
	24.53	312.97	128.05	238.09	-79.00	434.71
1.75	37.96	304.46	131.68	231.72	-55.75	422.88
	25.84	193.97	84.72	147.63	-33.04	269.41
	15.22	98.21	43.96	74.75	-13.53	136.41
	6.10	17.19	9.41	13.08	2.78	23.87
	-49.11	-1.53	-37.37	-18.94	-68.21	15.89
	-100.67	-7.65	-76.62	-41.09	-139.82	25.79
	-137.50	-12.27	-104.65	-57.03	-190.98	32.50
	-159.59	-15.39	-121.46	-66.77	-221.67	36.00
	-166.96	-17.01	-127.07	-70.30	-231.90	36.29
	-166.96	-17.01	-127.07	-70.30	-231.90	36.29
	-159.59	-17.12	-121.46	-67.64	-221.67	33.39
	-137.50	-15.74	-104.65	-58.77	-190.98	27.28

	-100.67	-12.86	-76.62	-43.69	-139.82	17.97
	-49.11	-8.48	-37.37	-22.42	-68.21	5.46
	-2.59	17.19	5.06	13.08	-10.25	23.87
	4.79	98.21	38.75	74.75	-29.17	136.41
	13.67	193.97	78.64	147.63	-51.29	269.41
	24.06	304.46	124.73	231.72	-76.61	422.88
1.80	37.52	296.42	128.54	225.70	-53.49	411.70
	25.56	188.85	82.72	143.79	-31.60	262.29
	15.08	95.62	42.95	72.81	-12.80	132.81
	6.07	16.73	9.23	12.74	2.91	23.24
	-47.81	-1.45	-36.40	-18.43	-66.40	15.52
	-98.01	-7.50	-74.63	-40.05	-136.13	25.05
	-133.87	-12.07	-101.93	-55.61	-185.93	31.47
	-155.38	-15.16	-118.31	-65.12	-215.81	34.81
	-162.55	-16.76	-123.77	-68.58	-225.77	35.05
	-162.55	-16.76	-123.77	-68.58	-225.77	35.05
	-155.38	-16.89	-118.31	-65.99	-215.81	32.20
	-133.87	-15.54	-101.93	-57.35	-185.93	26.26
	-98.01	-12.71	-74.63	-42.65	-136.13	17.22
	-47.81	-8.41	-36.40	-21.91	-66.40	5.10
	-2.62	16.73	4.89	12.74	-10.13	23.24
	4.65	95.62	37.74	72.81	-28.44	132.81
	13.39	188.85	76.64	143.79	-49.85	262.29
	23.62	296.42	121.59	225.70	-74.35	411.70
1.85	37.11	288.82	125.57	220.01	-51.35	401.13
	25.30	184.01	80.83	140.17	-30.24	255.56
	14.94	93.17	41.99	70.97	-12.11	129.40
	6.05	16.30	9.06	12.42	3.03	22.64
	-46.58	-1.39	-35.49	-17.95	-64.70	15.18
	-95.50	-7.36	-72.75	-39.07	-132.63	24.34
	-130.44	-11.88	-99.36	-54.27	-181.15	30.51
	-151.40	-14.94	-115.33	-63.57	-210.27	33.69
	-158.39	-16.54	-120.65	-66.95	-219.97	33.88
	-158.39	-16.54	-120.65	-66.95	-219.97	33.88
	-151.40	-16.68	-115.33	-64.44	-210.27	31.08
	-130.44	-15.36	-99.36	-56.01	-181.15	25.29
	-95.50	-12.58	-72.75	-41.67	-132.63	16.52
	-46.58	-8.34	-35.49	-21.43	-64.70	4.75
	-2.64	16.30	4.72	12.42	-10.00	22.64
	4.51	93.17	36.78	70.97	-27.75	129.40
	13.13	184.01	74.74	140.17	-48.48	255.56
	23.20	288.82	118.62	220.01	-72.21	401.13
1.90	36.72	281.62	122.76	214.63	-49.32	391.12
	25.05	179.42	79.04	136.74	-28.94	249.18
	14.82	90.85	41.09	69.23	-11.45	126.17

	6.03	15.90	8.91	12.12	3.14	22.08
	-45.42	-1.33	-34.62	-17.50	-63.08	14.85
	-93.12	-7.24	-70.97	-38.14	-129.32	23.67
	-127.19	-11.70	-96.93	-53.00	-176.63	29.59
	-147.63	-14.73	-112.51	-62.09	-205.02	32.63
	-154.44	-16.32	-117.70	-65.41	-214.48	32.77
	-154.44	-16.32	-117.70	-65.41	-214.48	32.77
	-147.63	-16.47	-112.51	-62.96	-205.02	30.02
	-127.19	-15.18	-96.93	-54.74	-176.63	24.38
	-93.12	-12.45	-70.97	-40.74	-129.32	15.85
	-45.42	-8.28	-34.62	-20.98	-63.08	4.42
	-2.66	15.90	4.56	12.12	-9.89	22.08
	4.39	90.85	35.87	69.23	-27.10	126.17
	12.88	179.42	72.95	136.74	-47.19	249.18
	22.81	281.62	115.81	214.63	-70.18	391.12
1.95	36.35	274.80	120.10	209.52	-47.40	381.62
	24.81	175.07	77.34	133.48	-27.72	243.13
	14.70	88.64	40.23	67.59	-10.83	123.10
	6.00	15.51	8.76	11.83	3.25	21.54
	-44.32	-1.27	-33.79	-17.07	-61.55	14.54
	-90.86	-7.11	-69.28	-37.26	-126.18	23.03
	-124.10	-11.54	-94.62	-51.80	-172.34	28.72
	-144.05	-14.54	-109.83	-60.70	-200.04	31.61
	-150.70	-16.12	-114.90	-63.95	-209.28	31.71
	-150.70	-16.12	-114.90	-63.95	-209.28	31.71
	-144.05	-16.28	-109.83	-61.57	-200.04	29.01
	-124.10	-15.01	-94.62	-53.54	-172.34	23.51
	-90.86	-12.33	-69.28	-39.86	-126.18	15.21
	-44.32	-8.22	-33.79	-20.55	-61.55	4.11
	-2.69	15.51	4.41	11.83	-9.78	21.54
	4.27	88.64	35.01	67.59	-26.47	123.10
	12.65	175.07	71.26	133.48	-45.96	243.13
22.45	274.80	113.14	209.52	-68.25	381.62	
2.00	37.10	269.41	118.66	205.76	-44.47	374.08
	25.29	171.64	76.43	131.09	-25.85	238.32
	14.94	86.91	39.76	66.37	-9.89	120.67
	6.05	15.21	8.67	11.62	3.42	21.12
	-43.45	-1.39	-33.19	-16.84	-60.34	14.07
	-89.08	-7.36	-68.03	-36.78	-123.69	22.06
	-121.67	-11.88	-92.92	-51.15	-168.94	27.40
	-141.22	-14.93	-107.86	-59.95	-196.09	30.08
	-147.74	-16.53	-112.84	-63.17	-205.14	30.11
	-147.74	-16.53	-112.84	-63.17	-205.14	30.11
	-141.22	-16.67	-107.86	-60.81	-196.09	27.47
-121.67	-15.35	-92.92	-52.89	-168.94	22.19	

	-89.08	-12.57	-68.03	-39.39	-123.69	14.24
	-43.45	-8.34	-33.19	-20.32	-60.34	3.64
	-2.64	15.21	4.33	11.62	-9.62	21.12
	4.51	86.91	34.55	66.37	-25.53	120.67
	13.12	171.64	70.34	131.09	-44.10	238.32
	23.19	269.41	111.71	205.76	-65.33	374.08
2.05	36.75	263.23	116.25	201.14	-42.74	365.49
	25.07	167.70	74.89	128.14	-24.75	232.85
	14.83	84.91	38.98	64.88	-9.33	117.90
	6.03	14.86	8.54	11.35	3.52	20.63
	-42.46	-1.33	-32.44	-16.45	-58.95	13.79
	-87.04	-7.25	-66.51	-35.98	-120.85	21.49
	-118.88	-11.72	-90.84	-50.06	-165.06	26.62
	-137.98	-14.75	-105.44	-58.68	-191.59	29.17
	-144.35	-16.34	-110.30	-61.84	-200.43	29.15
	-144.35	-16.34	-110.30	-61.84	-200.43	29.15
	-137.98	-16.49	-105.44	-59.55	-191.59	26.57
	-118.88	-15.20	-90.84	-51.80	-165.06	21.40
	-87.04	-12.46	-66.51	-38.59	-120.85	13.67
	-42.46	-8.28	-32.44	-19.93	-58.95	3.36
	-2.66	14.86	4.19	11.35	-9.52	20.63
	4.40	84.91	33.77	64.88	-24.97	117.90
	12.90	167.70	68.80	128.14	-43.00	232.85
	22.85	263.23	109.30	201.14	-63.59	365.49
2.10	36.43	257.35	113.95	196.74	-41.08	357.31
	24.86	163.96	73.42	125.34	-23.69	227.64
	14.72	83.02	38.24	63.46	-8.80	115.26
	6.01	14.53	8.41	11.11	3.61	20.17
	-41.51	-1.28	-31.73	-16.08	-57.63	13.52
	-85.09	-7.14	-65.05	-35.22	-118.14	20.94
	-116.22	-11.58	-88.85	-49.02	-161.37	25.87
	-134.90	-14.58	-103.13	-57.47	-187.30	28.31
	-141.13	-16.17	-107.89	-60.58	-195.94	28.25
	-141.13	-16.17	-107.89	-60.58	-195.94	28.25
	-134.90	-16.32	-103.13	-58.34	-187.30	25.70
	-116.22	-15.05	-88.85	-50.76	-161.37	20.66
	-85.09	-12.35	-65.05	-37.83	-118.14	13.12
	-41.51	-8.23	-31.73	-19.56	-57.63	3.09
	-2.68	14.53	4.06	11.11	-9.43	20.17
	4.30	83.02	33.03	63.46	-24.44	115.26
	12.70	163.96	67.34	125.34	-41.94	227.64
	22.53	257.35	107.00	196.74	-61.94	357.31
2.15	36.13	251.75	111.76	192.54	-39.51	349.51
	24.67	160.39	72.03	122.67	-22.69	222.67
	14.63	81.21	37.54	62.11	-8.29	112.75

	5.99	14.21	8.29	10.87	3.70	19.73
	-40.60	-1.23	-31.06	-15.73	-56.37	13.27
	-83.24	-7.04	-63.66	-34.50	-115.56	20.42
	-113.69	-11.44	-86.95	-48.03	-157.84	25.16
	-131.96	-14.42	-100.93	-56.33	-183.21	27.48
	-138.05	-16.00	-105.59	-59.38	-191.67	27.38
	-138.05	-16.00	-105.59	-59.38	-191.67	27.38
	-131.96	-16.16	-100.93	-57.20	-183.21	24.87
	-113.69	-14.91	-86.95	-49.77	-157.84	19.94
	-83.24	-12.25	-63.66	-37.11	-115.56	12.60
	-40.60	-8.18	-31.06	-19.20	-56.37	2.84
	-2.70	14.21	3.94	10.87	-9.34	19.73
	4.20	81.21	32.32	62.11	-23.93	112.75
	12.50	160.39	65.95	122.67	-40.94	222.67
	22.22	251.75	104.81	192.54	-60.36	349.51
2.20	35.84	246.40	109.67	188.54	-38.00	342.07
	24.49	156.98	70.70	120.12	-21.73	217.93
	14.53	79.48	36.86	60.82	-7.80	110.35
	5.98	13.91	8.17	10.64	3.78	19.31
	-39.74	-1.18	-30.41	-15.39	-55.17	13.02
	-81.47	-6.94	-62.34	-33.81	-113.10	19.92
	-111.28	-11.31	-85.15	-47.09	-154.48	24.48
	-129.16	-14.27	-98.83	-55.23	-179.31	26.69
	-135.12	-15.84	-103.39	-58.24	-187.59	26.56
	-135.12	-15.84	-103.39	-58.24	-187.59	26.56
	-129.16	-16.01	-98.83	-56.10	-179.31	24.08
	-111.28	-14.78	-85.15	-48.83	-154.48	19.26
	-81.47	-12.16	-62.34	-36.42	-113.10	12.10
	-39.74	-8.13	-30.41	-18.87	-55.17	2.60
	-2.71	13.91	3.82	10.64	-9.25	19.31
	4.10	79.48	31.65	60.82	-23.44	110.35
	12.32	156.98	64.62	120.12	-39.98	217.93
	21.93	246.40	102.72	188.54	-58.85	342.07
2.25	35.56	241.29	107.68	184.71	-36.56	334.96
	24.31	153.72	69.43	117.68	-20.81	213.40
	14.44	77.83	36.22	59.59	-7.34	108.05
	5.96	13.62	8.05	10.43	3.86	18.91
	-38.92	-1.14	-29.79	-15.07	-54.03	12.79
	-79.78	-6.85	-61.07	-33.15	-110.75	19.45
	-108.97	-11.18	-83.42	-46.19	-151.27	23.83
	-126.48	-14.13	-96.83	-54.19	-175.59	25.93
	-132.32	-15.69	-101.29	-57.14	-183.69	25.77
	-132.32	-15.69	-101.29	-57.14	-183.69	25.77
	-126.48	-15.87	-96.83	-55.06	-175.59	23.33
	-108.97	-14.66	-83.42	-47.93	-151.27	18.61

	-79.78	-12.07	-61.07	-35.76	-110.75	11.62
	-38.92	-8.09	-29.79	-18.54	-54.03	2.36
	-2.73	13.62	3.71	10.43	-9.17	18.91
	4.01	77.83	31.01	59.59	-22.98	108.05
	12.14	153.72	63.34	117.68	-39.06	213.40
	21.66	241.29	100.73	184.71	-57.41	334.96
2.30	36.34	237.44	106.81	182.10	-34.14	329.57
	24.80	151.27	68.88	116.01	-19.27	209.97
	14.69	76.59	35.94	58.74	-6.56	106.31
	6.00	13.40	8.01	10.28	4.00	18.60
	-38.30	-1.26	-29.37	-14.93	-53.16	12.40
	-78.51	-7.11	-60.21	-32.86	-108.97	18.65
	-107.23	-11.53	-82.24	-45.80	-148.84	22.73
	-124.47	-14.53	-95.45	-53.73	-172.76	24.66
	-130.21	-16.11	-99.86	-56.67	-180.73	24.44
	-130.21	-16.11	-99.86	-56.67	-180.73	24.44
	-124.47	-16.27	-95.45	-54.60	-172.76	22.06
	-107.23	-15.01	-82.24	-47.54	-148.84	17.52
	-78.51	-12.32	-60.21	-35.47	-108.97	10.82
	-38.30	-8.22	-29.37	-18.40	-53.16	1.97
	-2.69	13.40	3.66	10.28	-9.03	18.60
	4.26	76.59	30.73	58.74	-22.20	106.31
	12.64	151.27	62.79	116.01	-37.52	209.97
	22.43	237.44	99.86	182.10	-54.99	329.57
2.35	36.08	232.76	104.98	178.59	-32.82	323.05
	24.64	148.29	67.71	113.78	-18.43	205.82
	14.61	75.08	35.35	57.61	-6.13	104.21
	5.99	13.14	7.90	10.08	4.08	18.24
	-37.54	-1.22	-28.80	-14.63	-52.11	12.19
	-76.96	-7.02	-59.05	-32.26	-106.82	18.21
	-105.12	-11.42	-80.65	-44.97	-145.89	22.14
	-122.01	-14.40	-93.62	-52.77	-169.34	23.97
	-127.64	-15.97	-97.94	-55.66	-177.16	23.72
	-127.64	-15.97	-97.94	-55.66	-177.16	23.72
	-122.01	-16.14	-93.62	-53.64	-169.34	21.37
	-105.12	-14.89	-80.65	-46.71	-145.89	16.93
	-76.96	-12.24	-59.05	-34.86	-106.82	10.39
	-37.54	-8.17	-28.80	-18.11	-52.11	1.76
	-2.70	13.14	3.56	10.08	-8.96	18.24
	4.18	75.08	30.14	57.61	-21.77	104.21
	12.47	148.29	61.63	113.78	-36.68	205.82
	22.17	232.76	98.03	178.59	-53.68	323.05
2.40	35.83	228.27	103.22	175.23	-31.56	316.81
	24.48	145.43	66.59	111.64	-17.63	201.84
	14.53	73.63	34.78	56.53	-5.72	102.20

	5.98	12.89	7.80	9.89	4.15	17.88
	-36.82	-1.18	-28.26	-14.35	-51.10	11.99
	-75.48	-6.94	-57.94	-31.68	-104.75	17.79
	-103.09	-11.30	-79.14	-44.18	-143.08	21.57
	-119.66	-14.27	-91.85	-51.85	-166.07	23.31
	-125.18	-15.84	-96.09	-54.70	-173.73	23.03
	-125.18	-15.84	-96.09	-54.70	-173.73	23.03
	-119.66	-16.01	-91.85	-52.72	-166.07	20.71
	-103.09	-14.78	-79.14	-45.92	-143.08	16.36
	-75.48	-12.16	-57.94	-34.28	-104.75	9.97
	-36.82	-8.13	-28.26	-17.83	-51.10	1.56
	-2.71	12.89	3.46	9.89	-8.89	17.88
	4.10	73.63	29.57	56.53	-21.37	102.20
	12.32	145.43	60.51	111.64	-35.87	201.84
	21.93	228.27	96.27	175.23	-52.42	316.81
2.45	35.60	223.96	101.54	172.01	-30.35	310.82
	24.33	142.69	65.52	109.59	-16.85	198.02
	14.45	72.25	34.24	55.49	-5.33	100.27
	5.96	12.64	7.71	9.71	4.22	17.55
	-36.12	-1.14	-27.74	-14.08	-50.13	11.79
	-74.05	-6.86	-56.87	-31.12	-102.77	17.39
	-101.15	-11.20	-77.68	-43.42	-140.37	21.02
	-117.40	-14.15	-90.17	-50.97	-162.93	22.68
	-122.82	-15.71	-94.33	-53.78	-170.45	22.36
	-122.82	-15.71	-94.33	-53.78	-170.45	22.36
	-117.40	-15.88	-90.17	-51.84	-162.93	20.07
	-101.15	-14.67	-77.68	-45.16	-140.37	15.81
	-74.05	-12.08	-56.87	-33.73	-102.77	9.57
	-36.12	-8.10	-27.74	-17.56	-50.13	1.36
	-2.73	12.64	3.36	9.71	-8.82	17.55
	4.03	72.25	29.03	55.49	-20.97	100.27
	12.17	142.69	59.44	109.59	-35.10	198.02
	21.69	223.96	94.59	172.01	-51.20	310.82
2.50	35.37	219.83	99.93	168.92	-29.19	305.08
	24.19	140.06	64.49	107.62	-16.11	194.36
	14.38	70.91	33.72	54.49	-4.96	98.41
	5.95	12.41	7.62	9.54	4.28	17.22
	-35.46	-1.11	-27.24	-13.82	-49.21	11.60
	-72.69	-6.79	-55.85	-30.59	-100.87	17.01
	-99.28	-11.10	-76.28	-42.69	-137.78	20.50
	-115.24	-14.03	-88.54	-50.13	-159.92	22.07
	-120.55	-15.59	-92.63	-52.89	-167.30	21.72
	-120.55	-15.59	-92.63	-52.89	-167.30	21.72
	-115.24	-15.77	-88.54	-51.00	-159.92	19.46
	-99.28	-14.57	-76.28	-44.43	-137.78	15.28

	-72.69	-12.00	-55.85	-33.20	-100.87	9.19
	-35.46	-8.06	-27.24	-17.30	-49.21	1.18
	-2.74	12.41	3.27	9.54	-8.75	17.22
	3.95	70.91	28.51	54.49	-20.60	98.41
	12.02	140.06	58.41	107.62	-34.36	194.36
	21.47	219.83	92.98	168.92	-50.04	305.08
2.55	35.26	215.97	98.48	166.05	-27.97	299.69
	24.12	137.59	63.57	105.79	-15.34	190.93
	14.35	69.67	33.25	53.56	-4.56	96.68
	5.94	12.19	7.54	9.37	4.35	16.92
	-34.83	-1.09	-26.78	-13.59	-48.34	11.41
	-71.41	-6.75	-54.90	-30.11	-99.09	16.60
	-97.53	-11.05	-74.99	-42.04	-135.35	19.95
	-113.21	-13.97	-87.04	-49.37	-157.10	21.43
	-118.43	-15.52	-91.06	-52.10	-164.35	21.05
	-118.43	-15.52	-91.06	-52.10	-164.35	21.05
	-113.21	-15.71	-87.04	-50.24	-157.10	18.82
	-97.53	-14.52	-74.99	-43.78	-135.35	14.73
	-71.41	-11.97	-54.90	-32.72	-99.09	8.78
	-34.83	-8.04	-26.78	-17.06	-48.34	0.98
	-2.75	12.19	3.19	9.37	-8.68	16.92
	3.92	69.67	28.04	53.56	-20.21	96.68
	11.95	137.59	57.49	105.79	-33.58	190.93
	21.36	215.97	91.53	166.05	-48.82	299.69
2.60	35.05	212.15	96.99	163.19	-26.89	294.39
	23.99	135.16	62.62	103.97	-14.65	187.55
	14.28	68.44	32.77	52.64	-4.22	94.96
	5.93	11.98	7.45	9.21	4.41	16.62
	-34.22	-1.06	-26.32	-13.35	-47.48	11.23
	-70.15	-6.68	-53.96	-29.62	-97.34	16.25
	-95.81	-10.95	-73.70	-41.37	-132.95	19.46
	-111.21	-13.86	-85.54	-48.59	-154.32	20.86
	-116.34	-15.41	-89.49	-51.28	-161.44	20.46
	-116.34	-15.41	-89.49	-51.28	-161.44	20.46
	-111.21	-15.60	-85.54	-49.46	-154.32	18.26
	-95.81	-14.43	-73.70	-43.10	-132.95	14.25
	-70.15	-11.90	-53.96	-32.22	-97.34	8.43
	-34.22	-8.01	-26.32	-16.82	-47.48	0.80
	-2.76	11.98	3.11	9.21	-8.62	16.62
	3.85	68.44	27.56	52.64	-19.86	94.96
	11.82	135.16	56.54	103.97	-32.90	187.55
	21.15	212.15	90.04	163.19	-47.74	294.39
2.65	34.86	208.48	95.56	160.45	-25.85	289.28
	23.86	132.82	61.71	102.22	-13.99	184.30
	14.22	67.25	32.31	51.76	-3.88	93.32

	5.92	11.77	7.37	9.06	4.47	16.33
	-33.63	-1.02	-25.88	-13.11	-46.66	11.07
	-68.93	-6.62	-53.05	-29.14	-95.65	15.91
	-94.15	-10.86	-72.46	-40.72	-130.64	18.99
	-109.28	-13.76	-84.10	-47.84	-151.64	20.32
	-114.33	-15.30	-87.99	-50.50	-158.64	19.89
	-114.33	-15.30	-87.99	-50.50	-158.64	19.89
	-109.28	-15.50	-84.10	-48.71	-151.64	17.71
	-94.15	-14.34	-72.46	-42.46	-130.64	13.78
	-68.93	-11.83	-53.05	-31.75	-95.65	8.09
	-33.63	-7.98	-25.88	-16.59	-46.66	0.64
	-2.77	11.77	3.03	9.06	-8.57	16.33
	3.79	67.25	27.10	51.76	-19.52	93.32
	11.69	132.82	55.63	102.22	-32.24	184.30
	20.95	208.48	88.61	160.45	-46.71	289.28
	34.67	204.95	94.18	157.80	-24.85	284.37
	23.74	130.57	60.83	100.54	-13.35	181.17
	14.15	66.11	31.87	50.90	-3.56	91.73
	5.91	11.57	7.29	8.91	4.53	16.05
	-33.06	-0.99	-25.45	-12.89	-45.87	10.90
	-67.77	-6.56	-52.18	-28.69	-94.02	15.58
	-92.56	-10.78	-71.27	-40.10	-128.42	18.54
	-107.43	-13.66	-82.72	-47.11	-149.06	19.80
	-112.39	-15.20	-86.54	-49.74	-155.94	19.35
	-112.39	-15.20	-86.54	-49.74	-155.94	19.35
	-107.43	-15.40	-82.72	-47.98	-149.06	17.19
	-92.56	-14.25	-71.27	-41.83	-128.42	13.33
	-67.77	-11.77	-52.18	-31.30	-94.02	7.75
	-33.06	-7.95	-25.45	-16.37	-45.87	0.48
	-2.78	11.57	2.95	8.91	-8.51	16.05
	3.73	66.11	26.65	50.90	-19.20	91.73
	11.57	130.57	54.75	100.54	-31.60	181.17
	20.76	204.95	87.23	157.80	-45.71	284.37
	34.48	201.54	92.86	155.26	-23.89	279.63
	23.62	128.40	59.99	98.91	-12.74	178.15
	14.10	65.01	31.44	50.08	-3.25	90.20
	5.90	11.38	7.22	8.76	4.58	15.79
	-32.51	-0.96	-25.04	-12.68	-45.10	10.75
	-66.64	-6.50	-51.33	-28.25	-92.46	15.26
	-91.02	-10.70	-70.12	-39.50	-126.29	18.10
	-105.65	-13.56	-81.38	-46.42	-146.58	19.29
	-110.52	-15.10	-85.14	-49.02	-153.35	18.82
	-110.52	-15.10	-85.14	-49.02	-153.35	18.82
	-105.65	-15.30	-81.38	-47.29	-146.58	16.68
	-91.02	-14.17	-70.12	-41.24	-126.29	12.89

	-66.64	-11.71	-51.33	-30.86	-92.46	7.44
	-32.51	-7.92	-25.04	-16.15	-45.10	0.32
	-2.79	11.38	2.87	8.76	-8.45	15.79
	3.67	65.01	26.23	50.08	-18.89	90.20
	11.46	128.40	53.90	98.91	-30.99	178.15
	20.58	201.54	85.91	155.26	-44.74	279.63
2.80	34.31	198.26	91.58	152.80	-22.96	275.07
	23.51	126.31	59.17	97.35	-12.15	175.24
	14.04	63.96	31.03	49.29	-2.95	88.73
	5.89	11.19	7.15	8.63	4.63	15.53
	-31.98	-0.94	-24.65	-12.47	-44.37	10.60
	-65.55	-6.44	-50.52	-27.83	-90.95	14.95
	-89.54	-10.62	-69.01	-38.92	-124.22	17.68
	-103.93	-13.47	-80.10	-45.75	-144.19	18.80
	-108.72	-15.00	-83.79	-48.31	-150.84	18.31
	-108.72	-15.00	-83.79	-48.31	-150.84	18.31
	-103.93	-15.21	-80.10	-46.62	-144.19	16.20
	-89.54	-14.09	-69.01	-40.66	-124.22	12.47
	-65.55	-11.65	-50.52	-30.43	-90.95	7.13
	-31.98	-7.89	-24.65	-15.95	-44.37	0.17
	-2.80	11.19	2.80	8.63	-8.40	15.53
	3.61	63.96	25.81	49.29	-18.59	88.73
	11.35	126.31	53.09	97.35	-30.39	175.24
	20.41	198.26	84.63	152.80	-43.81	275.07
2.85	34.14	195.10	90.35	150.43	-22.06	270.66
	23.41	124.30	58.39	95.84	-11.57	172.44
	13.99	62.93	30.63	48.53	-2.66	87.31
	5.88	11.01	7.08	8.49	4.68	15.28
	-31.47	-0.91	-24.26	-12.27	-43.66	10.45
	-64.51	-6.38	-49.74	-27.42	-89.49	14.65
	-88.11	-10.54	-67.94	-38.36	-122.23	17.28
	-102.27	-13.38	-78.86	-45.10	-141.88	18.33
	-106.99	-14.91	-82.50	-47.64	-148.43	17.82
	-106.99	-14.91	-82.50	-47.64	-148.43	17.82
	-102.27	-15.12	-78.86	-45.97	-141.88	15.73
	-88.11	-14.02	-67.94	-40.10	-122.23	12.06
	-64.51	-11.60	-49.74	-30.03	-89.49	6.83
	-31.47	-7.86	-24.26	-15.75	-43.66	0.03
	-2.81	11.01	2.73	8.49	-8.35	15.28
	3.56	62.93	25.42	48.53	-18.30	87.31
	11.24	124.30	52.30	95.84	-29.82	172.44
	20.24	195.10	83.39	150.43	-42.91	270.66
2.90	33.98	192.04	89.16	148.15	-21.19	266.41
	23.30	122.35	57.63	94.38	-11.02	169.73
	13.93	61.95	30.25	47.79	-2.38	85.94

	5.87	10.84	7.01	8.36	4.73	15.04
	-30.97	-0.88	-23.89	-12.08	-42.97	10.31
	-63.50	-6.33	-48.98	-27.03	-88.09	14.37
	-86.73	-10.47	-66.91	-37.83	-120.32	16.89
	-100.67	-13.30	-77.66	-44.48	-139.65	17.88
	-105.31	-14.82	-81.24	-46.99	-146.10	17.34
	-105.31	-14.82	-81.24	-46.99	-146.10	17.34
	-100.67	-15.04	-77.66	-45.35	-139.65	15.27
	-86.73	-13.95	-66.91	-39.56	-120.32	11.67
	-63.50	-11.54	-48.98	-29.63	-88.09	6.54
	-30.97	-7.84	-23.89	-15.56	-42.97	-0.11
	-2.82	10.84	2.66	8.36	-8.30	15.04
	3.51	61.95	25.03	47.79	-18.02	85.94
	11.14	122.35	51.55	94.38	-29.27	169.73
	20.08	192.04	82.20	148.15	-42.05	266.41
2.95	33.83	189.09	88.01	145.94	-20.35	262.31
	23.21	120.47	56.90	92.98	-10.49	167.11
	13.88	61.00	29.88	47.08	-2.11	84.61
	5.86	10.67	6.94	8.24	4.78	14.81
	-30.50	-0.86	-23.54	-11.90	-42.31	10.18
	-62.52	-6.28	-48.25	-26.65	-86.73	14.09
	-85.40	-10.40	-65.91	-37.31	-118.46	16.51
	-99.12	-13.22	-76.50	-43.88	-137.50	17.44
	-103.69	-14.74	-80.03	-46.36	-143.85	16.88
	-103.69	-14.74	-80.03	-46.36	-143.85	16.88
	-99.12	-14.96	-76.50	-44.75	-137.50	14.83
	-85.40	-13.88	-65.91	-39.04	-118.46	11.29
	-62.52	-11.49	-48.25	-29.25	-86.73	6.27
	-30.50	-7.81	-23.54	-15.37	-42.31	-0.25
	-2.83	10.67	2.60	8.24	-8.25	14.81
	3.46	61.00	24.66	47.08	-17.75	84.61
	11.04	120.47	50.81	92.98	-28.73	167.11
	19.92	189.09	81.06	145.94	-41.21	262.31
3.00	34.74	187.30	87.96	144.87	-18.48	259.77
	23.79	119.33	56.86	92.29	-9.29	165.50
	14.18	60.42	29.86	46.73	-1.50	83.80
	5.91	10.57	6.94	8.18	4.89	14.66
	-30.21	-1.01	-23.37	-11.89	-41.90	9.88
	-61.93	-6.58	-47.90	-26.63	-85.89	13.47
	-84.59	-10.81	-65.42	-37.28	-117.32	15.66
	-98.18	-13.70	-75.94	-43.85	-136.17	16.46
	-102.71	-15.24	-79.44	-46.33	-142.45	15.85
	-102.71	-15.24	-79.44	-46.33	-142.45	15.85
	-98.18	-15.43	-75.94	-44.72	-136.17	13.85
	-84.59	-14.29	-65.42	-39.02	-117.32	10.45

	-61.93	-11.79	-47.90	-29.24	-85.89	5.65
	-30.21	-7.96	-23.37	-15.36	-41.90	-0.55
	-2.78	10.57	2.60	8.18	-8.15	14.66
	3.75	60.42	24.65	46.73	-17.15	83.80
	11.62	119.33	50.78	92.29	-27.54	165.50
	20.84	187.30	81.01	144.87	-39.34	259.77
3.05	34.59	184.53	86.88	142.80	-17.70	255.93
	23.69	117.57	56.18	90.98	-8.79	163.05
	14.13	59.53	29.51	46.06	-1.25	82.56
	5.91	10.42	6.88	8.06	4.93	14.45
	-29.76	-0.98	-23.03	-11.71	-41.28	9.75
	-61.02	-6.53	-47.22	-26.27	-84.62	13.21
	-83.34	-10.74	-64.49	-36.80	-115.58	15.31
	-96.73	-13.62	-74.85	-43.29	-134.16	16.05
	-101.20	-15.16	-78.31	-45.74	-140.35	15.42
	-101.20	-15.16	-78.31	-45.74	-140.35	15.42
	-96.73	-15.36	-74.85	-44.15	-134.16	13.44
	-83.34	-14.22	-64.49	-38.54	-115.58	10.09
	-61.02	-11.75	-47.22	-28.88	-84.62	5.39
	-29.76	-7.93	-23.03	-15.19	-41.28	-0.68
	-2.78	10.42	2.54	8.06	-8.11	14.45
	3.70	59.53	24.30	46.06	-16.89	82.56
	11.53	117.57	50.10	90.98	-27.04	163.05
	20.69	184.53	79.93	142.80	-38.55	255.93
3.10	34.45	181.86	85.84	140.80	-16.94	252.21
	23.60	115.86	55.51	89.70	-8.31	160.68
	14.08	58.67	29.18	45.42	-1.01	81.36
	5.90	10.27	6.82	7.95	4.97	14.24
	-29.33	-0.96	-22.71	-11.55	-40.68	9.63
	-60.13	-6.48	-46.55	-25.93	-83.39	12.96
	-82.13	-10.68	-63.59	-36.33	-113.90	14.97
	-95.33	-13.55	-73.81	-42.74	-132.21	15.65
	-99.73	-15.08	-77.21	-45.17	-138.31	15.01
	-99.73	-15.08	-77.21	-45.17	-138.31	15.01
	-95.33	-15.28	-73.81	-43.61	-132.21	13.04
	-82.13	-14.16	-63.59	-38.07	-113.90	9.75
	-60.13	-11.70	-46.55	-28.54	-83.39	5.14
	-29.33	-7.91	-22.71	-15.02	-40.68	-0.80
	-2.79	10.27	2.48	7.95	-8.06	14.24
	3.66	58.67	23.96	45.42	-16.65	81.36
	11.44	115.86	49.43	89.70	-26.56	160.68
	20.55	181.86	78.89	140.80	-37.80	252.21
3.15	34.31	179.27	84.83	138.86	-16.21	248.61
	23.51	114.22	54.87	88.47	-7.84	158.39
	14.04	57.83	28.85	44.79	-0.77	80.20

	5.89	10.12	6.77	7.84	5.01	14.03
	-28.92	-0.94	-22.40	-11.38	-40.10	9.51
	-59.28	-6.44	-45.91	-25.60	-82.20	12.72
	-80.96	-10.62	-62.71	-35.87	-112.28	14.64
	-93.97	-13.47	-72.79	-42.21	-130.32	15.27
	-98.31	-15.00	-76.15	-44.61	-136.33	14.61
	-98.31	-15.00	-76.15	-44.61	-136.33	14.61
	-93.97	-15.21	-72.79	-43.08	-130.32	12.66
	-80.96	-14.09	-62.71	-37.61	-112.28	9.42
	-59.28	-11.65	-45.91	-28.20	-82.20	4.90
	-28.92	-7.89	-22.40	-14.86	-40.10	-0.92
	-2.80	10.12	2.42	7.84	-8.02	14.03
	3.61	57.83	23.64	44.79	-16.41	80.20
	11.35	114.22	48.79	88.47	-26.09	158.39
	20.41	179.27	77.88	138.86	-37.06	248.61
3.20	34.18	176.77	83.86	136.99	-15.50	245.12
	23.43	112.62	54.25	87.28	-7.39	156.17
	14.00	57.02	28.54	44.19	-0.54	79.07
	5.88	9.98	6.71	7.73	5.05	13.84
	-28.51	-0.92	-22.10	-11.23	-39.54	9.40
	-58.45	-6.40	-45.29	-25.27	-81.05	12.48
	-79.83	-10.56	-61.87	-35.43	-110.70	14.31
	-92.66	-13.40	-71.81	-41.70	-128.49	14.89
	-96.94	-14.93	-75.12	-44.08	-134.42	14.22
	-96.94	-14.93	-75.12	-44.08	-134.42	14.22
	-92.66	-15.14	-71.81	-42.57	-128.49	12.29
	-79.83	-14.03	-61.87	-37.17	-110.70	9.10
	-58.45	-11.61	-45.29	-27.88	-81.05	4.66
	-28.51	-7.87	-22.10	-14.70	-39.54	-1.03
	-2.81	9.98	2.37	7.73	-7.98	13.84
	3.57	57.02	23.32	44.19	-16.18	79.07
	11.26	112.62	48.17	87.28	-25.64	156.17
20.28	176.77	76.90	136.99	-36.35	245.12	
3.25	35.09	175.38	83.95	136.22	-13.76	243.15
	24.01	111.74	54.31	86.78	-6.29	154.91
	14.29	56.58	28.57	43.94	0.02	78.44
	5.93	9.90	6.72	7.69	5.15	13.73
	-28.29	-1.06	-21.97	-11.24	-39.22	9.12
	-57.99	-6.70	-45.04	-25.31	-80.40	11.91
	-79.21	-10.97	-61.52	-35.48	-109.81	13.53
	-91.93	-13.88	-71.40	-41.75	-127.46	13.98
	-96.18	-15.43	-74.70	-44.13	-133.34	13.27
	-96.18	-15.43	-74.70	-44.13	-133.34	13.27
	-91.93	-15.62	-71.40	-42.62	-127.46	11.38
-79.21	-14.45	-61.52	-37.21	-109.81	8.32	

	-57.99	-11.91	-45.04	-27.91	-80.40	4.09
	-28.29	-8.02	-21.97	-14.72	-39.22	-1.31
	-2.76	9.90	2.37	7.69	-7.88	13.73
	3.86	56.58	23.35	43.94	-15.62	78.44
	11.85	111.74	48.23	86.78	-24.54	154.91
	21.19	175.38	77.00	136.22	-34.62	243.15
3.30	34.97	173.03	83.03	134.45	-13.10	239.87
	23.93	110.23	53.73	85.66	-5.86	152.82
	14.25	55.81	28.27	43.37	0.23	77.38
	5.93	9.77	6.66	7.59	5.19	13.54
	-27.91	-1.04	-21.69	-11.09	-38.69	9.01
	-57.21	-6.66	-44.46	-25.00	-79.31	11.69
	-78.14	-10.91	-60.72	-35.06	-108.33	13.23
	-90.70	-13.82	-70.48	-41.27	-125.74	13.63
	-94.88	-15.36	-73.73	-43.63	-131.54	12.90
	-94.88	-15.36	-73.73	-43.63	-131.54	12.90
	-90.70	-15.55	-70.48	-42.14	-125.74	11.03
	-78.14	-14.39	-60.72	-36.80	-108.33	8.02
	-57.21	-11.87	-44.46	-27.61	-79.31	3.87
	-27.91	-7.99	-21.69	-14.57	-38.69	-1.42
	-2.76	9.77	2.32	7.59	-7.85	13.54
	3.82	55.81	23.06	43.37	-15.41	77.38
	11.77	110.23	47.64	85.66	-24.11	152.82
21.06	173.03	76.08	134.45	-33.95	239.87	
3.35	34.85	170.74	82.14	132.74	-12.45	236.69
	23.85	108.78	53.16	84.57	-5.45	150.80
	14.21	55.08	27.98	42.82	0.44	76.35
	5.92	9.64	6.61	7.49	5.23	13.36
	-27.54	-1.02	-21.41	-10.95	-38.18	8.90
	-56.45	-6.62	-43.89	-24.71	-78.26	11.47
	-77.11	-10.86	-59.95	-34.66	-106.89	12.94
	-89.50	-13.75	-69.58	-40.80	-124.07	13.30
	-93.63	-15.30	-72.79	-43.14	-129.80	12.55
	-93.63	-15.30	-72.79	-43.14	-129.80	12.55
	-89.50	-15.49	-69.58	-41.67	-124.07	10.69
	-77.11	-14.34	-59.95	-36.40	-106.89	7.72
	-56.45	-11.83	-43.89	-27.31	-78.26	3.65
	-27.54	-7.97	-21.41	-14.43	-38.18	-1.52
	-2.77	9.64	2.27	7.49	-7.81	13.36
	3.78	55.08	22.77	42.82	-15.20	76.35
	11.69	108.78	47.08	84.57	-23.70	150.80
20.94	170.74	75.19	132.74	-33.31	236.69	
3.40	34.73	168.52	81.28	131.08	-11.82	233.61
	23.78	107.36	52.61	83.51	-5.05	148.83
	14.17	54.36	27.70	42.28	0.64	75.36

	5.91	9.51	6.56	7.40	5.26	13.19
	-27.18	-1.00	-21.14	-10.81	-37.68	8.80
	-55.72	-6.58	-43.34	-24.42	-77.24	11.27
	-76.11	-10.81	-59.20	-34.27	-105.50	12.66
	-88.34	-13.69	-68.71	-40.35	-122.45	12.97
	-92.41	-15.23	-71.88	-42.66	-128.11	12.20
	-92.41	-15.23	-71.88	-42.66	-128.11	12.20
	-88.34	-15.43	-68.71	-41.22	-122.45	10.36
	-76.11	-14.28	-59.20	-36.00	-105.50	7.44
	-55.72	-11.79	-43.34	-27.03	-77.24	3.45
	-27.18	-7.96	-21.14	-14.29	-37.68	-1.63
	-2.78	9.51	2.22	7.40	-7.77	13.19
	3.75	54.36	22.49	42.28	-15.00	75.36
	11.61	107.36	46.52	83.51	-23.30	148.83
	20.82	168.52	74.32	131.08	-32.68	233.61
	34.71	166.46	80.53	129.56	-11.12	230.74
	23.77	106.05	52.13	82.54	-4.60	147.00
	14.17	53.70	27.46	41.79	0.87	74.43
	5.91	9.40	6.52	7.31	5.30	13.03
	-26.85	-1.00	-20.90	-10.69	-37.22	8.69
	-55.04	-6.57	-42.84	-24.17	-76.29	11.03
	-75.18	-10.80	-58.51	-33.93	-104.20	12.34
	-87.26	-13.68	-67.92	-39.96	-120.95	12.60
	-91.28	-15.22	-71.05	-42.26	-126.53	11.82
	-91.28	-15.22	-71.05	-42.26	-126.53	11.82
	-87.26	-15.42	-67.92	-40.83	-120.95	9.99
	-75.18	-14.27	-58.51	-35.67	-104.20	7.12
	-55.04	-11.78	-42.84	-26.78	-76.29	3.21
	-26.85	-7.95	-20.90	-14.17	-37.22	-1.74
	-2.78	9.40	2.18	7.31	-7.73	13.03
	3.74	53.70	22.25	41.79	-14.77	74.43
	11.60	106.05	46.05	82.54	-22.85	147.00
	20.80	166.46	73.58	129.56	-31.97	230.74
3.45	34.60	164.37	79.71	128.00	-10.52	227.82
	23.69	104.72	51.61	81.55	-4.22	145.15
	14.13	53.02	27.20	41.29	1.06	73.49
	5.91	9.28	6.48	7.23	5.33	12.86
	-26.51	-0.98	-20.64	-10.56	-36.75	8.59
	-54.35	-6.53	-42.32	-23.90	-75.33	10.84
	-74.23	-10.75	-57.81	-33.56	-102.89	12.07
	-86.16	-13.62	-67.10	-39.53	-119.42	12.29
	-90.14	-15.16	-70.19	-41.81	-124.94	11.49
	-90.14	-15.16	-70.19	-41.81	-124.94	11.49
	-86.16	-15.36	-67.10	-40.40	-119.42	9.68
	-74.23	-14.22	-57.81	-35.30	-102.89	6.86
3.50						

	-54.35	-11.75	-42.32	-26.51	-75.33	3.02
	-26.51	-7.93	-20.64	-14.03	-36.75	-1.83
	-2.78	9.28	2.13	7.23	-7.70	12.86
	3.70	53.02	21.99	41.29	-14.58	73.49
	11.53	104.72	45.53	81.55	-22.47	145.15
	20.69	164.37	72.76	128.00	-31.38	227.82
3.55	34.49	162.33	78.92	126.48	-9.95	225.00
	23.63	103.42	51.11	80.58	-3.86	143.34
	14.10	52.37	26.94	40.80	1.25	72.58
	5.90	9.16	6.43	7.14	5.37	12.70
	-26.18	-0.97	-20.40	-10.43	-36.29	8.50
	-53.67	-6.50	-41.82	-23.64	-74.39	10.65
	-73.31	-10.70	-57.12	-33.20	-101.61	11.81
	-85.09	-13.57	-66.30	-39.11	-117.94	11.98
	-89.02	-15.10	-69.36	-41.37	-123.39	11.17
	-89.02	-15.10	-69.36	-41.37	-123.39	11.17
	-85.09	-15.30	-66.30	-39.98	-117.94	9.38
	-73.31	-14.17	-57.12	-34.94	-101.61	6.59
	-53.67	-11.71	-41.82	-26.25	-74.39	2.83
	-26.18	-7.92	-20.40	-13.91	-36.29	-1.93
	-2.79	9.16	2.09	7.14	-7.67	12.70
	3.67	52.37	21.73	40.80	-14.39	72.58
	11.46	103.42	45.03	80.58	-22.11	143.34
	20.58	162.33	71.97	126.48	-30.80	225.00
3.60	34.38	160.36	78.15	125.00	-9.39	222.25
	23.56	102.16	50.62	79.64	-3.50	141.59
	14.06	51.73	26.70	40.32	1.43	71.69
	5.89	9.05	6.39	7.06	5.40	12.55
	-25.86	-0.95	-20.16	-10.31	-35.85	8.41
	-53.02	-6.46	-41.33	-23.39	-73.48	10.46
	-72.42	-10.65	-56.45	-32.86	-100.37	11.56
	-84.06	-13.51	-65.52	-38.71	-116.50	11.69
	-87.94	-15.04	-68.55	-40.95	-121.88	10.87
	-87.94	-15.04	-68.55	-40.95	-121.88	10.87
	-84.06	-15.25	-65.52	-39.58	-116.50	9.08
	-72.42	-14.13	-56.45	-34.59	-100.37	6.34
	-53.02	-11.68	-41.33	-26.00	-73.48	2.64
	-25.86	-7.90	-20.16	-13.78	-35.85	-2.02
	-2.80	9.05	2.04	7.06	-7.64	12.55
	3.64	51.73	21.48	40.32	-14.21	71.69
	11.39	102.16	44.54	79.64	-21.75	141.59
	20.48	160.36	71.20	125.00	-30.24	222.25
3.65	34.28	158.44	77.41	123.56	-8.84	219.57
	23.50	100.94	50.14	78.72	-3.15	139.89
	14.03	51.11	26.46	39.86	1.61	70.83

	5.89	8.94	6.35	6.98	5.43	12.40
	-25.55	-0.93	-19.93	-10.19	-35.42	8.32
	-52.39	-6.43	-40.85	-23.14	-72.60	10.28
	-71.55	-10.61	-55.80	-32.52	-99.16	11.31
	-83.05	-13.46	-64.77	-38.32	-115.10	11.40
	-86.88	-14.99	-67.76	-40.54	-120.41	10.57
	-86.88	-14.99	-67.76	-40.54	-120.41	10.57
	-83.05	-15.20	-64.77	-39.19	-115.10	8.80
	-71.55	-14.08	-55.80	-34.26	-99.16	6.09
	-52.39	-11.64	-40.85	-25.75	-72.60	2.46
	-25.55	-7.88	-19.93	-13.66	-35.42	-2.11
	-2.80	8.94	2.00	6.98	-7.60	12.40
	3.60	51.11	21.24	39.86	-14.04	70.83
	11.33	100.94	44.06	78.72	-21.40	139.89
	20.38	158.44	70.45	123.56	-29.70	219.57
3.70	34.18	156.57	76.68	122.16	-8.31	216.97
	23.43	99.75	49.68	77.83	-2.81	138.23
	14.00	50.51	26.22	39.41	1.78	69.99
	5.88	8.84	6.30	6.90	5.46	12.25
	-25.25	-0.92	-19.70	-10.07	-35.00	8.24
	-51.77	-6.40	-40.39	-22.90	-71.74	10.11
	-70.71	-10.56	-55.17	-32.19	-97.99	11.07
	-82.07	-13.41	-64.04	-37.94	-113.74	11.12
	-85.86	-14.93	-66.99	-40.14	-118.99	10.27
	-85.86	-14.93	-66.99	-40.14	-118.99	10.27
	-82.07	-15.14	-64.04	-38.81	-113.74	8.52
	-70.71	-14.04	-55.17	-33.93	-97.99	5.85
	-51.77	-11.61	-40.39	-25.51	-71.74	2.28
	-25.25	-7.87	-19.70	-13.54	-35.00	-2.19
	-2.81	8.84	1.96	6.90	-7.57	12.25
	3.57	50.51	21.01	39.41	-13.86	69.99
	11.27	99.75	43.60	77.83	-21.06	138.23
	20.28	156.57	69.73	122.16	-29.16	216.97
3.75	34.09	154.75	75.97	120.80	-7.79	214.44
	23.37	98.59	49.23	76.96	-2.48	136.62
	13.97	49.92	25.99	38.97	1.94	69.17
	5.88	8.74	6.26	6.82	5.49	12.11
	-24.96	-0.90	-19.48	-9.95	-34.59	8.15
	-51.17	-6.37	-39.94	-22.67	-70.90	9.93
	-69.89	-10.52	-54.56	-31.87	-96.84	10.83
	-81.12	-13.36	-63.32	-37.57	-112.41	10.85
	-84.86	-14.88	-66.25	-39.75	-117.60	9.99
	-84.86	-14.88	-66.25	-39.75	-117.60	9.99
	-81.12	-15.09	-63.32	-38.44	-112.41	8.25
	-69.89	-13.99	-54.56	-33.61	-96.84	5.62

	-51.17	-11.58	-39.94	-25.27	-70.90	2.11
	-24.96	-7.85	-19.48	-13.43	-34.59	-2.28
	-2.81	8.74	1.92	6.82	-7.55	12.11
	3.54	49.92	20.78	38.97	-13.70	69.17
	11.21	98.59	43.14	76.96	-20.73	136.62
	20.19	154.75	69.02	120.80	-28.65	214.44
3.80	34.00	152.98	75.28	119.48	-7.29	211.98
	23.31	97.46	48.79	76.12	-2.16	135.05
	13.94	49.35	25.77	38.54	2.11	68.38
	5.87	8.64	6.23	6.74	5.52	11.97
	-24.67	-0.89	-19.27	-9.84	-34.19	8.07
	-50.58	-6.34	-39.50	-22.44	-70.09	9.77
	-69.09	-10.48	-53.96	-31.56	-95.73	10.61
	-80.19	-13.31	-62.63	-37.21	-111.12	10.59
	-83.89	-14.83	-65.52	-39.38	-116.25	9.71
	-83.89	-14.83	-65.52	-39.38	-116.25	9.71
	-80.19	-15.05	-62.63	-38.07	-111.12	7.98
	-69.09	-13.95	-53.96	-33.30	-95.73	5.39
	-50.58	-11.55	-39.50	-25.05	-70.09	1.95
	-24.67	-7.84	-19.27	-13.32	-34.19	-2.36
	-2.82	8.64	1.88	6.74	-7.52	11.97
	3.51	49.35	20.56	38.54	-13.53	68.38
	11.15	97.46	42.71	76.12	-20.41	135.05
20.09	152.98	68.33	119.48	-28.14	211.98	
3.85	35.01	152.35	75.71	119.29	-5.69	211.07
	23.96	97.06	49.06	76.00	-1.14	134.47
	14.27	49.15	25.91	38.48	2.62	68.09
	5.93	8.60	6.25	6.73	5.61	11.92
	-24.57	-1.05	-19.24	-9.91	-34.04	7.81
	-50.38	-6.67	-39.44	-22.58	-69.79	9.24
	-68.81	-10.93	-53.87	-31.75	-95.32	9.89
	-79.86	-13.84	-62.53	-37.43	-110.64	9.75
	-83.55	-15.39	-65.42	-39.61	-115.75	8.84
	-83.55	-15.39	-65.42	-39.61	-115.75	8.84
	-79.86	-15.58	-62.53	-38.30	-110.64	7.14
	-68.81	-14.41	-53.87	-33.49	-95.32	4.67
	-50.38	-11.89	-39.44	-25.19	-69.79	1.42
	-24.57	-8.00	-19.24	-13.39	-34.04	-2.61
	-2.76	8.60	1.91	6.73	-7.43	11.92
	3.84	49.15	20.70	38.48	-13.02	68.09
	11.79	97.06	42.98	76.00	-19.39	134.47
21.11	152.35	68.76	119.29	-26.54	211.07	
3.90	34.92	150.67	75.06	118.03	-5.21	208.73
	23.90	95.99	48.65	75.20	-0.84	132.98
	14.24	48.60	25.70	38.08	2.78	67.33

	5.92	8.51	6.21	6.66	5.63	11.78
	-24.30	-1.04	-19.04	-9.81	-33.67	7.74
	-49.82	-6.64	-39.03	-22.37	-69.02	9.08
	-68.05	-10.89	-53.31	-31.46	-94.26	9.67
	-78.98	-13.79	-61.87	-37.09	-109.41	9.50
	-82.63	-15.34	-64.73	-39.26	-114.46	8.58
	-82.63	-15.34	-64.73	-39.26	-114.46	8.58
	-78.98	-15.53	-61.87	-37.96	-109.41	6.89
	-68.05	-14.37	-53.31	-33.20	-94.26	4.46
	-49.82	-11.86	-39.03	-24.97	-69.02	1.26
	-24.30	-7.99	-19.04	-13.28	-33.67	-2.69
	-2.77	8.51	1.87	6.66	-7.40	11.78
	3.81	48.60	20.48	38.08	-12.87	67.33
	11.74	95.99	42.56	75.20	-19.09	132.98
	21.02	150.67	68.11	118.03	-26.07	208.73
3.95	34.84	149.03	74.42	116.81	-4.75	206.45
	23.85	94.95	48.24	74.42	-0.54	131.53
	14.21	48.07	25.49	37.68	2.93	66.60
	5.92	8.41	6.18	6.59	5.66	11.65
	-24.04	-1.02	-18.84	-9.70	-33.30	7.66
	-49.28	-6.61	-38.62	-22.15	-68.26	8.93
	-67.30	-10.86	-52.75	-31.17	-93.23	9.46
	-78.12	-13.75	-61.23	-36.75	-108.22	9.26
	-81.73	-15.29	-64.06	-38.91	-113.21	8.32
	-81.73	-15.29	-64.06	-38.91	-113.21	8.32
	-78.12	-15.49	-61.23	-37.62	-108.22	6.65
	-67.30	-14.33	-52.75	-32.91	-93.23	4.25
	-49.28	-11.83	-38.62	-24.76	-68.26	1.11
	-24.04	-7.97	-18.84	-13.18	-33.30	-2.77
	-2.77	8.41	1.83	6.59	-7.37	11.65
	3.78	48.07	20.28	37.68	-12.72	66.60
	11.68	94.95	42.16	74.42	-18.79	131.53
	20.93	149.03	67.47	116.81	-25.60	206.45
4.00	34.75	147.43	73.80	115.61	-4.29	204.22
	23.79	93.93	47.84	73.66	-0.25	130.11
	14.18	47.56	25.29	37.29	3.07	65.88
	5.91	8.32	6.14	6.53	5.69	11.53
	-23.78	-1.01	-18.65	-9.60	-32.94	7.59
	-48.75	-6.59	-38.23	-21.95	-67.53	8.78
	-66.58	-10.82	-52.21	-30.89	-92.23	9.25
	-77.28	-13.70	-60.60	-36.43	-107.05	9.02
	-80.85	-15.25	-63.40	-38.56	-111.99	8.07
	-80.85	-15.25	-63.40	-38.56	-111.99	8.07
	-77.28	-15.44	-60.60	-37.30	-107.05	6.41
	-66.58	-14.29	-52.21	-32.63	-92.23	4.04

	-48.75	-11.80	-38.23	-24.56	-67.53	0.96
	-23.78	-7.96	-18.65	-13.08	-32.94	-2.84
	-2.78	8.32	1.80	6.53	-7.35	11.53
	3.75	47.56	20.08	37.29	-12.57	65.88
	11.63	93.93	41.76	73.66	-18.50	130.11
	20.85	147.43	66.85	115.61	-25.15	204.22
4.05	34.67	145.88	73.19	114.45	-3.85	202.06
	23.74	92.94	47.46	72.91	0.03	128.73
	14.16	47.06	25.10	36.92	3.22	65.18
	5.91	8.23	6.11	6.46	5.71	11.41
	-23.53	-1.00	-18.46	-9.51	-32.59	7.52
	-48.23	-6.56	-37.84	-21.75	-66.81	8.63
	-65.88	-10.78	-51.68	-30.62	-91.25	9.05
	-76.47	-13.66	-59.99	-36.11	-105.92	8.79
	-80.00	-15.20	-62.76	-38.23	-110.81	7.83
	-80.00	-15.20	-62.76	-38.23	-110.81	7.83
	-76.47	-15.40	-59.99	-36.98	-105.92	6.18
	-65.88	-14.26	-51.68	-32.35	-91.25	3.84
	-48.23	-11.77	-37.84	-24.35	-66.81	0.81
	-23.53	-7.95	-18.46	-12.98	-32.59	-2.91
	-2.78	8.23	1.76	6.46	-7.32	11.41
	3.73	47.06	19.88	36.92	-12.43	65.18
	11.58	92.94	41.37	72.91	-18.22	128.73
	20.77	145.88	66.24	114.45	-24.70	202.06
4.10	35.69	145.45	73.69	114.40	-2.32	201.42
	24.39	92.67	47.78	72.89	1.00	128.32
	14.48	46.92	25.26	36.90	3.71	64.97
	5.97	8.21	6.14	6.46	5.80	11.37
	-23.46	-1.16	-18.45	-9.59	-32.49	7.27
	-48.09	-6.89	-37.83	-21.91	-66.60	8.13
	-65.69	-11.24	-51.67	-30.84	-90.96	8.36
	-76.24	-14.19	-59.97	-36.37	-105.58	7.99
	-79.76	-15.76	-62.74	-38.51	-110.46	6.99
	-79.76	-15.76	-62.74	-38.51	-110.46	6.99
	-76.24	-15.93	-59.97	-37.24	-105.58	5.38
	-65.69	-14.71	-51.67	-32.58	-90.96	3.15
	-48.09	-12.11	-37.83	-24.52	-66.60	0.31
	-23.46	-8.11	-18.45	-13.06	-32.49	-3.16
	-2.72	8.21	1.79	6.46	-7.24	11.37
	4.06	46.92	20.04	36.90	-11.93	64.97
	12.22	92.67	41.69	72.89	-17.25	128.32
	21.78	145.45	66.74	114.40	-23.18	201.42
4.15	35.61	143.96	73.12	113.29	-1.90	199.35
	24.34	91.72	47.41	72.18	1.27	127.01
	14.46	46.44	25.07	36.55	3.84	64.31

	5.96	8.13	6.10	6.40	5.82	11.25
	-23.22	-1.15	-18.27	-9.49	-32.15	7.20
	-47.60	-6.87	-37.46	-21.72	-65.91	7.99
	-65.02	-11.20	-51.16	-30.58	-90.03	8.17
	-75.47	-14.15	-59.39	-36.07	-104.50	7.77
	-78.95	-15.71	-62.13	-38.19	-109.32	6.76
	-78.95	-15.71	-62.13	-38.19	-109.32	6.76
	-75.47	-15.89	-59.39	-36.94	-104.50	5.16
	-65.02	-14.68	-51.16	-32.32	-90.03	2.96
	-47.60	-12.08	-37.46	-24.33	-65.91	0.17
	-23.22	-8.10	-18.27	-12.97	-32.15	-3.23
	-2.73	8.13	1.76	6.40	-7.21	11.25
	4.03	46.44	19.86	36.55	-11.80	64.31
	12.17	91.72	41.33	72.18	-16.98	127.01
	21.70	143.96	66.16	113.29	-22.76	199.35
4.20	35.53	142.51	72.55	112.21	-1.49	197.34
	24.29	90.80	47.05	71.49	1.53	125.72
	14.43	45.97	24.89	36.20	3.98	63.66
	5.96	8.05	6.07	6.33	5.84	11.14
	-22.99	-1.13	-18.10	-9.40	-31.83	7.14
	-47.12	-6.84	-37.10	-21.54	-65.25	7.85
	-64.36	-11.17	-50.67	-30.33	-89.12	7.99
	-74.71	-14.11	-58.82	-35.77	-103.44	7.55
	-78.15	-15.67	-61.53	-37.88	-108.22	6.54
	-78.15	-15.67	-61.53	-37.88	-108.22	6.54
	-74.71	-15.85	-58.82	-36.64	-103.44	4.94
	-64.36	-14.64	-50.67	-32.06	-89.12	2.78
	-47.12	-12.06	-37.10	-24.14	-65.25	0.03
	-22.99	-8.09	-18.10	-12.88	-31.83	-3.29
	-2.73	8.05	1.73	6.33	-7.19	11.14
	4.01	45.97	19.68	36.20	-11.67	63.66
	12.12	90.80	40.97	71.49	-16.72	125.72
	21.63	142.51	65.60	112.21	-22.35	197.34
4.25	35.46	141.10	72.00	111.15	-1.09	195.37
	24.24	89.89	46.70	70.81	1.79	124.47
	14.41	45.52	24.71	35.85	4.11	63.02
	5.95	7.97	6.04	6.27	5.87	11.03
	-22.76	-1.12	-17.93	-9.31	-31.51	7.07
	-46.65	-6.82	-36.75	-21.35	-64.60	7.72
	-63.72	-11.13	-50.20	-30.08	-88.23	7.81
	-73.96	-14.07	-58.26	-35.49	-102.41	7.34
	-77.38	-15.63	-60.95	-37.58	-107.14	6.32
	-77.38	-15.63	-60.95	-37.58	-107.14	6.32
	-73.96	-15.81	-58.26	-36.35	-102.41	4.73
	-63.72	-14.61	-50.20	-31.82	-88.23	2.59

	-46.65	-12.03	-36.75	-23.96	-64.60	-0.10
	-22.76	-8.07	-17.93	-12.79	-31.51	-3.36
	-2.74	7.97	1.70	6.27	-7.17	11.03
	3.98	45.52	19.50	35.85	-11.54	63.02
	12.08	89.89	40.61	70.81	-16.46	124.47
	21.55	141.10	65.05	111.15	-21.94	195.37
4.30	35.47	139.81	71.55	110.20	-0.61	193.57
	24.25	89.07	46.41	70.21	2.10	123.32
	14.41	45.10	24.57	35.55	4.26	62.44
	5.95	7.89	6.02	6.22	5.89	10.93
	-22.55	-1.12	-17.77	-9.24	-31.22	6.99
	-46.23	-6.82	-36.44	-21.21	-64.00	7.56
	-63.14	-11.14	-49.77	-29.88	-87.42	7.59
	-73.29	-14.08	-57.77	-35.25	-101.47	7.09
	-76.67	-15.64	-60.43	-37.33	-106.15	6.05
	-76.67	-15.64	-60.43	-37.33	-106.15	6.05
	-73.29	-15.82	-57.77	-36.12	-101.47	4.48
	-63.14	-14.62	-49.77	-31.61	-87.42	2.38
	-46.23	-12.04	-36.44	-23.81	-64.00	-0.26
	-22.55	-8.08	-17.77	-12.72	-31.22	-3.43
	-2.73	7.89	1.67	6.22	-7.14	10.93
	3.99	45.10	19.35	35.55	-11.38	62.44
	12.09	89.07	40.33	70.21	-16.15	123.32
21.57	139.81	64.60	110.20	-21.46	193.57	
4.35	35.40	138.46	71.03	109.19	-0.22	191.69
	24.21	88.21	46.08	69.57	2.34	122.12
	14.39	44.66	24.40	35.22	4.39	61.84
	5.95	7.82	5.99	6.16	5.92	10.82
	-22.33	-1.11	-17.61	-9.16	-30.92	6.93
	-45.78	-6.80	-36.10	-21.03	-63.38	7.43
	-62.53	-11.11	-49.31	-29.64	-86.57	7.42
	-72.58	-14.04	-57.24	-34.97	-100.48	6.89
	-75.93	-15.60	-59.88	-37.04	-105.12	5.84
	-75.93	-15.60	-59.88	-37.04	-105.12	5.84
	-72.58	-15.78	-57.24	-35.84	-100.48	4.28
	-62.53	-14.59	-49.31	-31.38	-86.57	2.20
	-45.78	-12.01	-36.10	-23.64	-63.38	-0.39
	-22.33	-8.06	-17.61	-12.63	-30.92	-3.50
	-2.74	7.82	1.64	6.16	-7.12	10.82
	3.96	44.66	19.18	35.22	-11.26	61.84
	12.04	88.21	39.99	69.57	-15.91	122.12
21.50	138.46	64.07	109.19	-21.08	191.69	
4.40	35.33	137.14	70.51	108.21	0.15	189.85
	24.16	87.37	45.75	68.94	2.58	120.95
	14.37	44.24	24.23	34.91	4.51	61.24

	5.95	7.74	5.96	6.11	5.94	10.72
	-22.12	-1.10	-17.45	-9.07	-30.62	6.87
	-45.34	-6.78	-35.78	-20.86	-62.77	7.31
	-61.93	-11.08	-48.87	-29.41	-85.74	7.25
	-71.89	-14.01	-56.72	-34.71	-99.52	6.69
	-75.20	-15.56	-59.34	-36.76	-104.11	5.63
	-75.20	-15.56	-59.34	-36.76	-104.11	5.63
	-71.89	-15.75	-56.72	-35.57	-99.52	4.08
	-61.93	-14.56	-48.87	-31.14	-85.74	2.03
	-45.34	-11.99	-35.78	-23.47	-62.77	-0.51
	-22.12	-8.05	-17.45	-12.55	-30.62	-3.56
	-2.74	7.74	1.61	6.11	-7.10	10.72
	3.94	44.24	19.02	34.91	-11.14	61.24
	12.00	87.37	39.67	68.94	-15.67	120.95
	21.43	137.14	63.56	108.21	-20.70	189.85
4.45	35.27	135.85	70.01	107.24	0.52	188.06
	24.12	86.55	45.43	68.32	2.81	119.81
	14.35	43.82	24.07	34.59	4.62	60.66
	5.91	7.69	5.91	6.05	5.91	10.64
	-21.91	-1.09	-17.30	-8.99	-30.33	6.81
	-44.92	-6.75	-35.46	-20.70	-62.18	7.19
	-61.35	-11.05	-48.43	-29.18	-84.93	7.08
	-71.21	-13.97	-56.22	-34.44	-98.58	6.50
	-74.50	-15.53	-58.81	-36.49	-103.13	5.43
	-74.50	-15.53	-58.81	-36.49	-103.13	5.43
	-71.21	-15.71	-56.22	-35.31	-98.58	3.89
	-61.35	-14.52	-48.43	-30.92	-84.93	1.87
	-44.92	-11.97	-35.46	-23.30	-62.18	-0.63
	-21.91	-8.04	-17.30	-12.47	-30.33	-3.62
	-2.75	7.67	1.58	6.05	-7.08	10.62
	3.92	43.82	18.86	34.59	-11.02	60.66
	11.96	86.55	39.35	68.32	-15.44	119.81
	21.36	135.85	63.06	107.24	-20.34	188.06
4.50	35.20	134.59	69.52	106.30	0.88	186.31
	24.08	85.75	45.12	67.72	3.04	118.69
	14.33	43.42	23.91	34.29	4.74	60.10
	5.86	7.64	5.86	6.00	5.86	10.59
	-21.71	-1.08	-17.15	-8.91	-30.05	6.75
	-44.50	-6.73	-35.15	-20.53	-61.60	7.07
	-60.78	-11.02	-48.01	-28.96	-84.14	6.92
	-70.55	-13.94	-55.72	-34.19	-97.66	6.31
	-73.81	-15.49	-58.29	-36.22	-102.17	5.24
	-73.81	-15.49	-58.29	-36.22	-102.17	5.24
	-70.55	-15.68	-55.72	-35.05	-97.66	3.70
	-60.78	-14.49	-48.01	-30.70	-84.14	1.71

	-44.50	-11.95	-35.15	-23.14	-61.60	-0.75
	-21.71	-8.03	-17.15	-12.39	-30.05	-3.67
	-2.75	7.60	1.56	6.00	-7.06	10.52
	3.90	43.42	18.70	34.29	-10.90	60.10
	11.91	85.75	39.04	67.72	-15.21	118.69
	21.30	134.59	62.57	106.30	-19.98	186.31

En la Tabla 22 se muestran las combinaciones de esfuerzos para el cordón superior en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 22. Combinación de esfuerzos del cordón superior - 18 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)
0.50	-0.43	0.00	-0.22	0.00	-0.65	0.00
	63.80	457.87	203.93	353.16	-76.32	635.20
	120.49	861.87	384.06	664.77	-143.09	1195.66
	169.61	1212.01	540.17	934.84	-200.95	1681.40
	211.18	1508.28	672.27	1163.35	-249.91	2092.41
	245.19	1750.68	780.35	1350.32	-289.97	2428.69
	271.64	1939.21	864.41	1495.74	-321.13	2690.24
	290.53	2073.88	924.45	1599.61	-343.39	2877.06
	301.87	2154.68	960.48	1661.93	-356.74	2989.16
	302.74	2154.68	960.91	1661.93	-355.44	2989.16
	291.40	2073.88	924.89	1599.61	-342.08	2877.06
	272.51	1939.21	864.84	1495.74	-319.83	2690.24
	246.06	1750.68	780.78	1350.32	-288.67	2428.69
	212.05	1508.28	672.70	1163.35	-248.61	2092.41
	170.48	1212.01	540.61	934.84	-199.65	1681.40
	121.36	861.87	384.50	664.77	-141.78	1195.66
	64.67	457.87	204.36	353.16	-75.02	635.20
	0.00	0.43	0.00	0.22	0.00	0.65
0.55	-0.43	0.00	-0.22	0.00	-0.65	0.00
	54.34	412.62	181.75	317.43	-73.07	572.56
	102.67	776.70	342.30	597.52	-136.96	1077.75
	144.56	1092.23	481.45	840.26	-192.34	1515.59
	180.00	1359.22	599.19	1045.65	-239.19	1886.07
	209.00	1577.66	695.53	1213.70	-277.53	2189.19
	231.55	1747.57	770.45	1344.41	-307.35	2424.95
	247.66	1868.93	823.97	1437.77	-328.65	2593.35
	257.33	1941.74	856.08	1493.79	-341.43	2694.38
	258.20	1941.74	856.52	1493.79	-340.12	2694.38
	248.53	1868.93	824.41	1437.77	-327.34	2593.35
	232.42	1747.57	770.89	1344.41	-306.05	2424.95

	209.87	1577.66	695.96	1213.70	-276.23	2189.19
	180.87	1359.22	599.63	1045.65	-237.89	1886.07
	145.43	1092.23	481.89	840.26	-191.03	1515.59
	103.54	776.70	342.74	597.52	-135.66	1077.75
	55.21	412.62	182.18	317.43	-71.76	572.56
	0.00	0.43	0.00	0.22	0.00	0.65
0.60	-0.43	0.00	-0.22	0.00	-0.65	0.00
	43.98	372.44	160.78	285.18	-72.83	517.01
	83.16	701.06	302.84	536.81	-136.52	973.20
	117.12	985.86	425.96	754.88	-191.72	1368.57
	145.86	1226.85	530.14	939.41	-238.42	1703.11
	169.37	1424.02	615.37	1090.39	-276.63	1976.82
	187.66	1577.37	681.67	1207.81	-306.35	2189.71
	200.72	1686.91	729.02	1291.69	-327.58	2341.77
	208.56	1752.64	757.43	1342.02	-340.32	2433.01
	209.43	1752.64	757.87	1342.02	-339.02	2433.01
	201.59	1686.91	729.46	1291.69	-326.28	2341.77
	188.53	1577.37	682.10	1207.81	-305.05	2189.71
	170.24	1424.02	615.81	1090.39	-275.33	1976.82
	146.73	1226.85	530.57	939.41	-237.12	1703.11
	117.99	985.86	426.40	754.88	-190.41	1368.57
	84.03	701.06	303.28	536.81	-135.22	973.20
	44.85	372.44	161.22	285.18	-71.53	517.01
	0.00	0.43	0.00	0.22	0.00	0.65
0.65	-0.43	0.00	-0.22	0.00	-0.65	0.00
	38.51	341.73	146.35	261.19	-69.33	474.47
	72.87	643.26	275.67	491.65	-129.93	893.13
	102.65	904.59	387.74	691.38	-182.45	1255.96
	127.84	1125.71	482.58	860.39	-226.89	1562.97
	148.46	1306.63	560.17	998.66	-263.25	1814.16
	164.50	1447.34	620.52	1106.21	-291.53	2009.53
	175.95	1547.85	663.63	1183.03	-311.73	2149.08
	182.82	1608.16	689.49	1229.12	-323.85	2232.82
	183.69	1608.16	689.93	1229.12	-322.55	2232.82
	176.82	1547.85	664.06	1183.03	-310.43	2149.08
	165.36	1447.34	620.96	1106.21	-290.23	2009.53
	149.33	1306.63	560.61	998.66	-261.95	1814.16
	128.71	1125.71	483.01	860.39	-225.59	1562.97
	103.52	904.59	388.18	691.38	-181.15	1255.96
	73.74	643.26	276.10	491.65	-128.63	893.13
	39.38	341.73	146.78	261.19	-68.03	474.47
	0.00	0.43	0.00	0.22	0.00	0.65
0.70	-0.43	0.00	-0.22	0.00	-0.65	0.00
	32.44	314.04	132.59	239.24	-67.71	436.14
	61.44	591.13	249.77	450.34	-126.89	820.98

	86.58	831.27	351.33	633.30	-178.17	1154.50
	107.85	1034.47	437.26	788.10	-221.56	1436.71
	125.25	1200.73	507.57	914.76	-257.07	1667.61
	138.79	1330.04	562.26	1013.27	-284.68	1847.20
	148.46	1422.40	601.32	1083.64	-304.40	1975.48
	154.26	1477.82	624.76	1125.86	-316.24	2052.44
	155.13	1477.82	625.19	1125.86	-314.93	2052.44
	149.33	1422.40	601.75	1083.64	-303.10	1975.48
	139.66	1330.04	562.69	1013.27	-283.38	1847.20
	126.12	1200.73	508.01	914.76	-255.76	1667.61
	108.72	1034.47	437.70	788.10	-220.26	1436.71
	87.45	831.27	351.76	633.30	-176.87	1154.50
	62.31	591.13	250.21	450.34	-125.58	820.98
	33.31	314.04	133.02	239.24	-66.41	436.14
	0.00	0.43	0.00	0.22	0.00	0.65
0.75	-0.43	0.00	-0.22	0.00	-0.65	0.00
	30.60	293.46	124.09	223.65	-62.88	407.55
	57.99	552.39	233.78	420.99	-117.80	767.16
	81.73	776.80	328.84	592.02	-165.39	1078.81
	101.81	966.69	409.28	736.74	-205.65	1342.52
	118.24	1122.05	475.09	855.15	-238.60	1558.28
	131.03	1242.89	526.28	947.24	-264.23	1726.10
	140.15	1329.20	562.84	1013.02	-282.53	1845.97
	145.63	1380.98	584.78	1052.49	-293.51	1917.89
	146.50	1380.98	585.21	1052.49	-292.21	1917.89
	141.02	1329.20	563.27	1013.02	-281.23	1845.97
	131.89	1242.89	526.71	947.24	-262.92	1726.10
	119.11	1122.05	475.53	855.15	-237.30	1558.28
	102.68	966.69	409.71	736.74	-204.35	1342.52
	82.60	776.80	329.28	592.02	-164.08	1078.81
	58.86	552.39	234.21	420.99	-116.49	767.16
	31.47	293.46	124.53	223.65	-61.58	407.55
	0.00	0.43	0.00	0.22	0.00	0.65
0.80	-0.43	0.00	-0.22	0.00	-0.65	0.00
	26.51	272.96	114.17	207.52	-61.15	379.17
	50.28	513.81	215.09	390.62	-114.54	713.73
	70.88	722.54	302.57	549.31	-160.80	1003.68
	88.32	899.16	376.58	683.59	-199.95	1249.02
	102.58	1043.67	437.13	793.45	-231.98	1449.76
	113.67	1156.07	484.23	878.90	-256.89	1605.88
	121.60	1236.35	517.88	939.93	-274.68	1717.40
	126.35	1284.52	538.06	976.55	-285.36	1784.31
	127.22	1284.52	538.50	976.55	-284.06	1784.31
	122.47	1236.35	518.31	939.93	-273.38	1717.40
	114.54	1156.07	484.67	878.90	-255.59	1605.88

	103.45	1043.67	437.57	793.45	-230.67	1449.76
	89.18	899.16	377.01	683.59	-198.64	1249.02
	71.75	722.54	303.00	549.31	-159.50	1003.68
	51.15	513.81	215.53	390.62	-113.23	713.73
	27.38	272.96	114.60	207.52	-59.85	379.17
	0.00	0.43	0.00	0.22	0.00	0.65
0.85	-0.43	0.00	-0.22	0.00	-0.65	0.00
	25.24	257.22	107.76	195.63	-57.28	357.29
	47.89	484.18	203.03	368.24	-107.24	672.55
	67.53	680.88	285.60	517.84	-150.54	945.77
	84.14	847.32	355.46	644.42	-187.18	1176.96
	97.73	983.50	412.62	747.99	-217.15	1366.12
	108.31	1089.41	457.08	828.55	-240.47	1513.24
	115.86	1165.06	488.84	886.08	-257.12	1618.32
	120.39	1210.46	507.90	920.61	-267.12	1681.37
	121.26	1210.46	508.33	920.61	-265.81	1681.37
	116.73	1165.06	489.28	886.08	-255.82	1618.32
	109.18	1089.41	457.52	828.55	-239.17	1513.24
	98.60	983.50	413.06	747.99	-215.85	1366.12
	85.01	847.32	355.90	644.42	-185.87	1176.96
	68.40	680.88	286.03	517.84	-149.24	945.77
	48.76	484.18	203.46	368.24	-105.93	672.55
	26.11	257.22	108.19	195.63	-55.97	357.29
0.00	0.43	0.00	0.22	0.00	0.65	
0.90	-0.43	0.00	-0.22	0.00	-0.65	0.00
	21.88	241.00	99.82	182.83	-56.06	334.83
	41.57	453.64	188.09	344.14	-104.96	630.27
	58.63	637.93	264.60	483.95	-147.33	886.32
	73.07	793.87	329.33	602.25	-183.19	1102.97
	84.88	921.46	382.29	699.04	-212.52	1280.24
	94.07	1020.69	423.48	774.32	-235.34	1418.11
	100.63	1091.58	452.91	828.09	-251.64	1516.59
	104.57	1134.10	470.56	860.36	-261.42	1575.67
	105.44	1134.10	471.00	860.36	-260.11	1575.67
	101.50	1091.58	453.34	828.09	-250.34	1516.59
	94.94	1020.69	423.92	774.32	-234.04	1418.11
	85.75	921.46	382.73	699.04	-211.22	1280.24
	73.94	793.87	329.76	602.25	-181.88	1102.97
	59.50	637.93	265.03	483.95	-146.03	886.32
	42.44	453.64	188.53	344.14	-103.65	630.27
	22.75	241.00	100.26	182.83	-54.76	334.83
0.00	0.43	0.00	0.22	0.00	0.65	
0.95	-0.43	0.00	-0.22	0.00	-0.65	0.00
	20.99	228.60	94.84	173.49	-52.86	317.59
	39.89	430.30	178.72	326.56	-98.93	597.82

	56.27	605.11	251.41	459.23	-138.86	840.68
	70.14	753.03	312.92	571.49	-172.65	1046.18
	81.48	874.05	363.24	663.33	-200.29	1214.32
	90.30	968.18	402.39	734.77	-221.79	1345.09
	96.60	1035.41	430.35	785.80	-237.14	1438.50
	100.38	1075.75	447.12	816.41	-246.36	1494.55
	101.25	1075.75	447.56	816.41	-245.05	1494.55
	97.47	1035.41	430.78	785.80	-235.84	1438.50
	91.17	968.18	402.82	734.77	-220.48	1345.09
	82.35	874.05	363.68	663.33	-198.98	1214.32
	71.01	753.03	313.35	571.49	-171.34	1046.18
	57.14	605.11	251.84	459.23	-137.56	840.68
	40.76	430.30	179.15	326.56	-97.63	597.82
	21.86	228.60	95.28	173.49	-51.56	317.59
	0.00	0.43	0.00	0.22	0.00	0.65
1.00	-0.43	0.00	-0.22	0.00	-0.65	0.00
	20.08	217.33	90.25	164.97	-50.09	301.93
	38.18	409.09	170.07	310.54	-93.72	568.33
	53.86	575.28	239.25	436.69	-131.53	799.22
	67.13	715.90	297.79	543.44	-163.52	994.58
	77.99	830.95	345.68	630.78	-189.70	1154.43
	86.44	920.44	382.93	698.71	-210.05	1278.75
	92.47	984.36	409.54	747.23	-224.60	1367.55
	96.09	1022.71	425.50	776.34	-233.32	1420.83
	96.96	1022.71	425.94	776.34	-232.02	1420.83
	93.34	984.36	409.97	747.23	-223.29	1367.55
	87.31	920.44	383.37	698.71	-208.75	1278.75
	78.86	830.95	346.12	630.78	-188.39	1154.43
	68.00	715.90	298.22	543.44	-162.22	994.58
	54.73	575.28	239.69	436.69	-130.23	799.22
	39.04	409.09	170.51	310.54	-92.42	568.33
	20.95	217.33	90.68	164.97	-48.79	301.93
	0.00	0.43	0.00	0.22	0.00	0.65
1.05	-0.43	0.00	-0.22	0.00	-0.65	0.00
	18.17	206.05	85.01	156.19	-48.67	286.30
	34.59	387.86	160.21	294.00	-91.04	538.91
	48.82	545.42	225.39	413.44	-127.76	757.84
	60.86	678.75	280.54	514.50	-158.83	943.09
	70.71	787.83	325.66	597.19	-184.25	1094.66
	78.37	872.68	360.75	661.50	-204.02	1212.54
	83.84	933.28	385.82	707.44	-218.14	1296.75
	87.12	969.64	400.86	735.00	-226.61	1347.27
	87.99	969.64	401.29	735.00	-225.31	1347.27
	84.71	933.28	386.25	707.44	-216.84	1296.75
	79.24	872.68	361.19	661.50	-202.71	1212.54

	71.57	787.83	326.09	597.19	-182.94	1094.66
	61.72	678.75	280.97	514.50	-157.52	943.09
	49.69	545.42	225.82	413.44	-126.45	757.84
	35.46	387.86	160.65	294.00	-89.73	538.91
	19.04	206.05	85.45	156.19	-47.37	286.30
	0.00	0.43	0.00	0.22	0.00	0.65
1.10	-0.43	0.00	-0.22	0.00	-0.65	0.00
	17.58	196.94	81.39	149.34	-46.23	273.63
	33.47	370.71	153.40	281.11	-86.45	515.06
	47.25	521.30	215.81	395.32	-121.31	724.30
	58.91	648.73	268.61	491.95	-150.80	901.35
	68.44	752.99	311.82	571.01	-174.93	1046.21
	75.86	834.09	345.42	632.51	-193.70	1158.88
	81.16	892.01	369.42	676.43	-207.10	1239.36
	84.34	926.76	383.83	702.79	-215.15	1287.65
	85.21	926.76	384.26	702.79	-213.84	1287.65
	82.03	892.01	369.86	676.43	-205.80	1239.36
	76.73	834.09	345.86	632.51	-192.39	1158.88
	69.31	752.99	312.25	571.01	-173.63	1046.21
	59.78	648.73	269.05	491.95	-149.49	901.35
	48.12	521.30	216.24	395.32	-120.00	724.30
	34.34	370.71	153.83	281.11	-85.15	515.06
	18.45	196.94	81.83	149.34	-44.93	273.63
	0.00	0.43	0.00	0.22	0.00	0.65
1.15	-0.43	0.00	-0.22	0.00	-0.65	0.00
	17.04	188.62	78.09	143.09	-44.00	262.06
	32.46	355.05	147.18	269.36	-82.26	493.29
	45.83	499.29	207.06	378.78	-115.41	693.69
	57.14	621.34	257.73	471.37	-143.46	863.26
	66.39	721.20	299.19	547.13	-166.41	1001.99
	73.59	798.86	331.43	606.05	-184.26	1109.90
	78.73	854.34	354.47	648.14	-197.01	1186.98
	81.81	887.63	368.28	673.39	-204.66	1233.22
	82.68	887.63	368.72	673.39	-203.36	1233.22
	79.59	854.34	354.90	648.14	-195.71	1186.98
	74.45	798.86	331.87	606.05	-182.96	1109.90
	67.26	721.20	299.62	547.13	-165.11	1001.99
	58.01	621.34	258.17	471.37	-142.16	863.26
	46.70	499.29	207.50	378.78	-114.11	693.69
	33.33	355.05	147.62	269.36	-80.95	493.29
	17.91	188.62	78.52	143.09	-42.70	262.06
	0.00	0.43	0.00	0.22	0.00	0.65
1.20	-0.43	0.00	-0.22	0.00	-0.65	0.00
	16.36	180.81	74.87	137.18	-42.15	251.21
	31.18	340.35	141.13	258.22	-78.77	472.86

	44.03	478.61	198.56	363.13	-110.50	664.96
	54.90	595.61	247.15	451.89	-137.35	827.50
	63.79	691.33	286.90	524.52	-159.32	960.49
	70.71	765.78	317.82	581.00	-176.41	1063.93
	75.65	818.96	339.91	621.35	-188.61	1137.82
	78.61	850.87	353.16	645.56	-195.94	1182.15
	79.48	850.87	353.59	645.56	-194.63	1182.15
	76.52	818.96	340.34	621.35	-187.31	1137.82
	71.58	765.78	318.25	581.00	-175.10	1063.93
	64.66	691.33	287.33	524.52	-158.02	960.49
	55.77	595.61	247.58	451.89	-136.05	827.50
	44.90	478.61	198.99	363.13	-109.20	664.96
	32.05	340.35	141.57	258.22	-77.46	472.86
	17.23	180.81	75.31	137.18	-40.85	251.21
	0.00	0.43	0.00	0.22	0.00	0.65
1.25	-0.43	0.00	-0.22	0.00	-0.65	0.00
	15.92	173.81	72.10	131.92	-40.26	241.47
	30.35	327.17	135.91	248.33	-75.21	454.53
	42.86	460.08	191.22	349.21	-105.49	639.18
	53.44	572.54	238.01	434.57	-131.12	795.43
	62.10	664.56	276.30	504.42	-152.09	923.27
	68.84	736.13	306.08	558.74	-168.40	1022.69
	73.65	787.25	327.35	597.54	-180.05	1093.71
	76.53	817.92	340.11	620.82	-187.04	1136.33
	77.40	817.92	340.54	620.82	-185.74	1136.33
	74.52	787.25	327.78	597.54	-178.75	1093.71
	69.71	736.13	306.51	558.74	-167.10	1022.69
	62.97	664.56	276.73	504.42	-150.79	923.27
	54.31	572.54	238.45	434.57	-129.82	795.43
	43.73	460.08	191.65	349.21	-104.19	639.18
	31.22	327.17	136.35	248.33	-73.90	454.53
	16.79	173.81	72.54	131.92	-38.96	241.47
	0.00	0.43	0.00	0.22	0.00	0.65
1.30	-0.43	0.00	-0.22	0.00	-0.65	0.00
	14.64	166.47	68.67	126.20	-39.39	231.30
	27.94	313.36	129.45	237.55	-73.57	435.39
	39.47	440.66	182.13	334.06	-103.19	612.27
	49.23	548.38	226.70	415.71	-128.25	761.94
	57.21	636.51	263.17	482.53	-148.76	884.39
	63.41	705.06	291.54	534.49	-164.71	979.63
	67.85	754.02	311.80	571.61	-176.10	1047.66
	70.51	783.39	323.95	593.88	-182.94	1088.48
	71.38	783.39	324.39	593.88	-181.63	1088.48
	68.72	754.02	312.23	571.61	-174.80	1047.66
	64.28	705.06	291.97	534.49	-163.40	979.63

	58.08	636.51	263.61	482.53	-147.45	884.39
	50.09	548.38	227.14	415.71	-126.95	761.94
	40.34	440.66	182.56	334.06	-101.88	612.27
	28.81	313.36	129.89	237.55	-72.26	435.39
	15.51	166.47	69.10	126.20	-38.08	231.30
	0.00	0.43	0.00	0.22	0.00	0.65
1.35	-0.43	0.00	-0.22	0.00	-0.65	0.00
	14.30	160.52	66.34	121.74	-37.74	223.03
	27.30	302.16	125.06	229.16	-70.46	419.82
	38.57	424.91	175.95	322.26	-98.81	590.37
	48.10	528.78	219.01	401.03	-122.81	734.69
	55.90	613.77	254.25	465.49	-142.44	852.76
	61.97	679.86	281.65	515.61	-157.71	944.60
	66.30	727.08	301.23	551.42	-168.62	1010.19
	68.90	755.40	312.97	572.91	-175.16	1049.55
	69.77	755.40	313.40	572.91	-173.86	1049.55
	67.17	727.08	301.66	551.42	-167.31	1010.19
	62.84	679.86	282.09	515.61	-156.41	944.60
	56.77	613.77	254.68	465.49	-141.14	852.76
	48.97	528.78	219.45	401.03	-121.51	734.69
	39.44	424.91	176.38	322.26	-97.51	590.37
	28.17	302.16	125.49	229.16	-69.15	419.82
	15.17	160.52	66.77	121.74	-36.43	223.03
	0.00	0.43	0.00	0.22	0.00	0.65
	1.40	-0.43	0.00	-0.22	0.00	-0.65
13.99		155.00	64.17	117.61	-36.20	215.35
26.71		291.77	120.98	221.38	-67.56	405.36
37.74		410.30	170.22	311.31	-94.75	570.04
47.07		510.59	211.88	387.41	-117.75	709.39
54.70		592.65	245.97	449.67	-136.57	823.40
60.64		656.48	272.48	498.10	-151.21	912.07
64.88		702.07	291.42	532.69	-161.66	975.41
67.42		729.42	302.78	553.44	-167.93	1013.41
68.29		729.42	303.21	553.44	-166.63	1013.41
65.75		702.07	291.85	532.69	-160.36	975.41
61.51		656.48	272.91	498.10	-149.90	912.07
55.57		592.65	246.40	449.67	-135.27	823.40
47.93		510.59	212.32	387.41	-116.45	709.39
38.60		410.30	170.65	311.31	-93.44	570.04
27.58		291.77	121.42	221.38	-66.26	405.36
14.85		155.00	64.60	117.61	-34.90	215.35
0.00		0.43	0.00	0.22	0.00	0.65
1.45		-0.43	0.00	-0.22	0.00	-0.65
	13.69	149.86	62.16	113.76	-34.77	208.20
	26.16	282.09	117.19	214.13	-64.87	391.91

	36.96	396.70	164.89	301.12	-90.96	551.12
	46.11	493.67	205.24	374.73	-113.03	685.84
	53.59	573.00	238.27	434.95	-131.10	796.06
	59.40	634.71	263.95	481.79	-145.14	881.79
	63.56	678.79	282.29	515.25	-155.18	943.03
	66.05	705.24	293.30	535.32	-161.20	979.77
	66.92	705.24	293.73	535.32	-159.89	979.77
	64.43	678.79	282.73	515.25	-153.87	943.03
	60.27	634.71	264.38	481.79	-143.84	881.79
	54.45	573.00	238.70	434.95	-129.79	796.06
	46.97	493.67	205.68	374.73	-111.73	685.84
	37.83	396.70	165.32	301.12	-89.66	551.12
	27.03	282.09	117.62	214.13	-63.57	391.91
	14.56	149.86	62.59	113.76	-33.46	208.20
	0.00	0.43	0.00	0.22	0.00	0.65
1.50	-0.43	0.00	-0.22	0.00	-0.65	0.00
	13.42	145.07	60.28	110.16	-33.43	201.53
	25.65	273.07	113.65	207.37	-62.35	379.35
	36.25	384.00	159.91	291.61	-87.42	533.47
	45.21	477.87	199.06	362.90	-108.63	663.87
	52.55	554.67	231.08	421.22	-125.98	770.56
	58.26	614.40	255.99	466.58	-139.48	853.55
	62.33	657.07	273.78	498.98	-149.12	912.82
	64.78	682.67	284.46	518.42	-154.90	948.39
	65.65	682.67	284.89	518.42	-153.60	948.39
	63.20	657.07	274.22	498.98	-147.81	912.82
	59.13	614.40	256.43	466.58	-138.17	853.55
	53.42	554.67	231.52	421.22	-124.68	770.56
	46.08	477.87	199.49	362.90	-107.32	663.87
	37.12	384.00	160.35	291.61	-86.11	533.47
	26.52	273.07	114.09	207.37	-61.05	379.35
	14.29	145.07	60.71	110.16	-32.13	201.53
	0.00	0.43	0.00	0.22	0.00	0.65
1.55	-0.43	0.00	-0.22	0.00	-0.65	0.00
	13.17	140.58	58.52	106.81	-32.18	195.29
	25.18	264.63	110.35	201.05	-59.99	367.61
	35.58	372.13	155.26	282.72	-84.10	516.96
	44.39	463.10	193.27	351.83	-104.50	643.32
	51.59	537.52	224.37	408.38	-121.19	746.72
	57.19	595.41	248.55	452.36	-134.17	827.13
	61.19	636.76	265.83	483.77	-143.44	884.57
	63.59	661.57	276.20	502.62	-149.01	919.03
	64.46	661.57	276.63	502.62	-147.70	919.03
	62.06	636.76	266.26	483.77	-142.14	884.57
	58.06	595.41	248.99	452.36	-132.87	827.13

	52.46	537.52	224.80	408.38	-119.89	746.72
	45.25	463.10	193.71	351.83	-103.20	643.32
	36.45	372.13	155.70	282.72	-82.80	516.96
	26.05	264.63	110.78	201.05	-58.69	367.61
	14.04	140.58	58.95	106.81	-30.87	195.29
	0.00	0.43	0.00	0.22	0.00	0.65
1.60	-0.43	0.00	-0.22	0.00	-0.65	0.00
	12.94	136.38	56.88	103.66	-31.00	189.45
	24.74	256.72	107.25	195.12	-57.78	356.61
	34.96	361.01	150.91	274.39	-80.99	501.48
	43.61	449.25	187.85	341.47	-100.63	624.07
	50.69	521.46	218.08	396.34	-116.70	724.36
	56.20	577.61	241.59	439.03	-129.19	802.37
	60.13	617.72	258.38	469.52	-138.12	858.09
	62.49	641.79	268.45	487.81	-143.48	891.52
	63.36	641.79	268.89	487.81	-142.17	891.52
	61.00	617.72	258.81	469.52	-136.82	858.09
	57.07	577.61	242.02	439.03	-127.89	802.37
	51.56	521.46	218.51	396.34	-115.39	724.36
	44.48	449.25	188.29	341.47	-99.32	624.07
	35.83	361.01	151.34	274.39	-79.69	501.48
	25.60	256.72	107.69	195.12	-56.48	356.61
	13.81	136.38	57.31	103.66	-29.70	189.45
	0.00	0.43	0.00	0.22	0.00	0.65
	1.65	-0.43	0.00	-0.22	0.00	-0.65
12.72		132.43	55.33	100.70	-29.90	183.96
24.32		249.29	104.34	189.56	-55.70	346.28
34.38		350.56	146.82	266.57	-78.06	486.95
42.89		436.25	182.77	331.73	-96.99	605.98
49.85		506.36	212.17	385.04	-112.47	703.37
55.27		560.90	235.05	426.51	-124.51	779.12
59.14		599.85	251.38	456.13	-133.11	833.23
61.46		623.22	261.19	473.90	-138.27	865.69
62.33		623.22	261.62	473.90	-136.97	865.69
60.01		599.85	251.82	456.13	-131.81	833.23
56.14		560.90	235.48	426.51	-123.21	779.12
50.72		506.36	212.61	385.04	-111.16	703.37
43.76		436.25	183.20	331.73	-95.68	605.98
35.25		350.56	147.26	266.57	-76.76	486.95
25.19		249.29	104.78	189.56	-54.40	346.28
13.59		132.43	55.77	100.70	-28.59	183.96
0.00	0.43	0.00	0.22	0.00	0.65	
1.70	-0.43	0.00	-0.22	0.00	-0.65	0.00
	12.51	128.72	53.88	97.92	-28.85	178.79
	23.94	242.30	101.61	184.33	-53.74	336.55

	33.84	340.73	142.98	259.21	-75.31	473.28
	42.21	424.02	177.98	322.57	-93.55	588.97
	49.07	492.17	206.62	374.41	-108.49	683.62
	54.40	545.17	228.90	414.74	-120.10	757.24
	58.21	583.03	244.81	443.54	-128.39	809.83
	60.49	605.74	254.35	460.82	-133.37	841.38
	61.36	605.74	254.79	460.82	-132.07	841.38
	59.08	583.03	245.24	443.54	-127.09	809.83
	55.27	545.17	229.33	414.74	-118.79	757.24
	49.94	492.17	207.06	374.41	-107.18	683.62
	43.08	424.02	178.42	322.57	-92.25	588.97
	34.71	340.73	143.41	259.21	-74.00	473.28
	24.80	242.30	102.05	184.33	-52.44	336.55
	13.38	128.72	54.31	97.92	-27.55	178.79
	0.00	0.43	0.00	0.22	0.00	0.65
1.75	-0.43	0.00	-0.22	0.00	-0.65	0.00
	12.32	125.22	52.51	95.30	-27.87	173.92
	23.57	235.71	99.04	179.39	-51.89	327.39
	33.33	331.46	139.36	252.27	-72.70	460.39
	41.58	412.49	173.47	313.94	-90.32	572.93
	48.33	478.78	201.39	364.39	-104.73	665.01
	53.58	530.34	223.10	403.64	-115.93	736.62
	57.33	567.17	238.61	431.67	-123.94	787.78
	59.59	589.27	247.91	448.49	-128.74	818.47
	60.45	589.27	248.35	448.49	-127.44	818.47
	58.20	567.17	239.04	431.67	-122.64	787.78
	54.45	530.34	223.54	403.64	-114.63	736.62
	49.20	478.78	201.82	364.39	-103.42	665.01
	42.45	412.49	173.91	313.94	-89.01	572.93
	34.20	331.46	139.79	252.27	-71.40	460.39
	24.44	235.71	99.47	179.39	-50.59	327.39
	13.19	125.22	52.95	95.30	-26.57	173.92
	0.00	0.43	0.00	0.22	0.00	0.65
1.80	-0.43	0.00	-0.22	0.00	-0.65	0.00
	12.14	121.91	51.22	92.83	-26.94	169.33
	23.23	229.49	96.60	174.74	-50.14	318.73
	32.85	322.72	135.94	245.72	-70.24	448.22
	40.98	401.60	169.22	305.79	-87.25	557.78
	47.64	466.15	196.45	354.94	-101.17	647.43
	52.82	516.35	217.63	393.16	-112.00	717.15
	56.52	552.20	232.76	420.46	-119.73	766.95
	58.73	573.72	241.84	436.84	-124.37	796.83
	59.60	573.72	242.27	436.84	-123.07	796.83
	57.38	552.20	233.20	420.46	-118.43	766.95
	53.69	516.35	218.07	393.16	-110.69	717.15

	48.51	466.15	196.89	354.94	-99.87	647.43
	41.85	401.60	169.66	305.79	-85.95	557.78
	33.72	322.72	136.37	245.72	-68.94	448.22
	24.10	229.49	97.04	174.74	-48.84	318.73
	13.01	121.91	51.65	92.83	-25.64	169.33
	0.00	0.43	0.00	0.22	0.00	0.65
1.85	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.97	118.79	50.00	90.49	-26.06	164.98
	22.91	223.60	94.31	170.33	-48.48	310.55
	32.40	314.44	132.71	239.53	-67.91	436.71
	40.42	391.31	165.20	298.08	-84.36	543.46
	46.99	454.20	191.79	345.99	-97.81	630.81
	52.10	503.11	212.46	383.25	-108.27	698.74
	55.74	538.05	227.23	409.87	-115.74	747.26
	57.93	559.01	236.09	425.83	-120.23	776.38
	58.80	559.01	236.53	425.83	-118.92	776.38
	56.61	538.05	227.67	409.87	-114.44	747.26
	52.97	503.11	212.90	383.25	-106.97	698.74
	47.86	454.20	192.22	345.99	-96.50	630.81
	41.29	391.31	165.63	298.08	-83.05	543.46
	33.27	314.44	133.14	239.53	-66.61	436.71
	23.78	223.60	94.74	170.33	-47.18	310.55
	12.84	118.79	50.43	90.49	-24.76	164.98
	0.00	0.43	0.00	0.22	0.00	0.65
1.90	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.81	115.83	48.84	88.27	-25.23	160.86
	22.61	218.03	92.13	166.16	-46.91	302.80
	31.97	306.61	129.65	233.67	-65.70	425.81
	39.89	381.56	161.39	290.79	-81.61	529.90
	46.38	442.88	187.37	337.52	-94.62	615.06
	51.42	490.57	207.57	373.87	-104.74	681.30
	55.02	524.64	222.00	399.83	-111.96	728.61
	57.18	545.08	230.66	415.41	-116.30	757.00
	58.05	545.08	231.09	415.41	-115.00	757.00
	55.89	524.64	222.43	399.83	-110.66	728.61
	52.29	490.57	208.00	373.87	-103.43	681.30
	47.24	442.88	187.80	337.52	-93.31	615.06
	40.76	381.56	161.83	290.79	-80.30	529.90
	32.84	306.61	130.08	233.67	-64.40	425.81
	23.48	218.03	92.57	166.16	-45.61	302.80
	12.68	115.83	49.28	88.27	-23.92	160.86
	0.00	0.43	0.00	0.22	0.00	0.65
1.95	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.66	113.02	47.75	86.17	-24.43	156.96
	22.33	212.75	90.07	162.21	-45.42	295.45

	31.57	299.18	126.75	228.11	-63.61	415.47
	39.39	372.31	157.78	283.87	-79.00	517.03
	45.80	432.14	183.18	329.49	-91.59	600.13
	50.77	478.68	202.93	364.97	-101.38	664.76
	54.33	511.92	217.04	390.32	-108.37	710.92
	56.46	531.87	225.50	405.52	-112.57	738.62
	57.33	531.87	225.93	405.52	-111.27	738.62
	55.20	511.92	217.47	390.32	-107.07	710.92
	51.64	478.68	203.36	364.97	-100.08	664.76
	46.67	432.14	183.61	329.49	-90.28	600.13
	40.26	372.31	158.22	283.87	-77.69	517.03
	32.44	299.18	127.18	228.11	-62.30	415.47
	23.19	212.75	90.50	162.21	-44.12	295.45
	12.53	113.02	48.18	86.17	-23.13	156.96
	0.00	0.43	0.00	0.22	0.00	0.65
	-0.43	0.00	-0.22	0.00	-0.65	0.00
2.00	11.96	110.81	47.16	84.63	-23.23	153.85
	22.90	208.57	88.96	159.30	-43.15	289.61
	32.38	293.31	125.19	224.02	-60.42	407.26
	40.40	365.01	155.84	278.77	-75.03	506.82
	46.97	423.67	180.92	323.58	-86.98	588.27
	52.07	469.29	200.43	358.42	-96.28	651.62
	55.72	501.88	214.36	383.32	-102.92	696.87
	57.91	521.44	222.72	398.25	-106.91	724.02
	58.78	521.44	223.16	398.25	-105.60	724.02
	56.59	501.88	214.80	383.32	-101.62	696.87
	52.94	469.29	200.86	358.42	-94.98	651.62
	47.84	423.67	181.36	323.58	-85.68	588.27
	41.27	365.01	156.28	278.77	-73.73	506.82
	33.25	293.31	125.62	224.02	-59.12	407.26
	23.77	208.57	89.39	159.30	-41.85	289.61
	12.83	110.81	47.59	84.63	-21.93	153.85
	0.00	0.43	0.00	0.22	0.00	0.65
	-0.43	0.00	-0.22	0.00	-0.65	0.00
2.05	11.82	108.27	46.16	82.73	-22.52	150.32
	22.64	203.79	87.09	155.72	-41.81	282.96
	32.01	286.58	122.56	218.98	-58.53	397.91
	39.94	356.64	152.57	272.51	-72.68	495.18
	46.43	413.95	177.12	316.31	-84.26	574.76
	51.48	458.53	196.22	350.37	-93.26	636.66
	55.09	490.38	209.86	374.70	-99.69	680.87
	57.25	509.48	218.05	389.30	-103.55	707.40
	58.12	509.48	218.48	389.30	-102.25	707.40
	55.95	490.38	210.30	374.70	-98.39	680.87
	52.35	458.53	196.66	350.37	-91.96	636.66

	47.30	413.95	177.56	316.31	-82.95	574.76
	40.81	356.64	153.00	272.51	-71.38	495.18
	32.88	286.58	122.99	218.98	-57.23	397.91
	23.51	203.79	87.52	155.72	-40.51	282.96
	12.69	108.27	46.60	82.73	-21.21	150.32
	0.00	0.43	0.00	0.22	0.00	0.65
2.10	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.69	105.85	45.22	80.92	-21.84	146.96
	22.39	199.24	85.31	152.31	-40.53	276.63
	31.66	280.18	120.06	214.19	-56.73	389.01
	39.51	348.67	149.46	266.55	-70.44	484.10
	45.93	404.71	173.51	309.38	-81.66	561.90
	50.92	448.29	192.22	342.70	-90.38	622.41
	54.49	479.42	205.58	366.50	-96.61	665.63
	56.63	498.10	213.60	380.78	-100.35	691.57
	57.49	498.10	214.04	380.78	-99.05	691.57
	55.35	479.42	206.02	366.50	-95.31	665.63
	51.79	448.29	192.65	342.70	-89.08	622.41
	46.80	404.71	173.95	309.38	-80.35	561.90
	40.38	348.67	149.89	266.55	-69.14	484.10
	32.53	280.18	120.49	214.19	-55.43	389.01
	23.26	199.24	85.75	152.31	-39.23	276.63
	12.56	105.85	45.65	80.92	-20.53	146.96
	0.00	0.43	0.00	0.22	0.00	0.65
2.15	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.56	103.54	44.32	79.19	-21.19	143.75
	22.15	194.90	83.62	149.06	-39.31	270.59
	31.33	274.08	117.67	209.62	-55.02	380.52
	39.09	341.08	146.49	260.86	-68.30	473.53
	45.45	395.89	170.07	302.79	-79.18	549.64
	50.39	438.53	188.41	335.39	-87.63	608.83
	53.92	468.98	201.51	358.69	-93.67	651.11
	56.03	487.25	209.36	372.66	-97.30	676.47
	56.90	487.25	209.80	372.66	-95.99	676.47
	54.78	468.98	201.94	358.69	-92.37	651.11
	51.26	438.53	188.84	335.39	-86.33	608.83
	46.31	395.89	170.50	302.79	-77.87	549.64
	39.96	341.08	146.92	260.86	-67.00	473.53
	32.20	274.08	118.11	209.62	-53.71	380.52
	23.02	194.90	84.05	149.06	-38.01	270.59
	12.43	103.54	44.75	79.19	-19.89	143.75
	0.00	0.43	0.00	0.22	0.00	0.65
2.20	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.45	101.34	43.46	77.54	-20.57	140.69
	21.93	190.76	82.00	145.96	-38.14	264.83

	31.01	268.26	115.40	205.26	-53.37	372.42
	38.70	333.83	143.66	255.44	-66.26	463.45
	44.99	387.48	166.78	296.49	-76.81	537.94
	49.88	429.21	184.77	328.42	-85.01	595.87
	53.37	459.02	197.61	351.23	-90.87	637.25
	55.47	476.90	205.32	364.91	-94.38	662.07
	56.34	476.90	205.76	364.91	-93.08	662.07
	54.24	459.02	198.05	351.23	-89.56	637.25
	50.75	429.21	185.20	328.42	-83.70	595.87
	45.86	387.48	167.22	296.49	-75.50	537.94
	39.57	333.83	144.10	255.44	-64.96	463.45
	31.88	268.26	115.83	205.26	-52.07	372.42
	22.80	190.76	82.43	145.96	-36.84	264.83
	12.31	101.34	43.89	77.54	-19.27	140.69
	0.00	0.43	0.00	0.22	0.00	0.65
2.25	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.33	99.24	42.64	75.97	-19.98	137.77
	21.71	186.80	80.45	143.00	-37.03	259.33
	30.71	262.69	113.23	201.10	-51.80	364.68
	38.33	326.91	140.96	250.26	-64.31	453.82
	44.55	379.45	163.65	290.48	-74.54	526.76
	49.40	420.31	181.29	321.76	-82.50	583.48
	52.86	449.50	193.90	344.10	-88.18	624.00
	54.94	467.01	201.46	357.51	-91.59	648.32
	55.81	467.01	201.90	357.51	-90.29	648.32
	53.73	449.50	194.33	344.10	-86.88	624.00
	50.27	420.31	181.73	321.76	-81.19	583.48
	45.42	379.45	164.08	290.48	-73.24	526.76
	39.19	326.91	141.39	250.26	-63.01	453.82
	31.58	262.69	113.66	201.10	-50.50	364.68
	22.58	186.80	80.89	143.00	-35.72	259.33
	12.20	99.24	43.07	75.97	-18.67	137.77
	0.00	0.43	0.00	0.22	0.00	0.65
2.30	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.65	97.66	42.28	74.89	-18.98	135.55
	22.31	183.83	79.78	140.98	-35.15	255.15
	31.56	258.50	112.28	198.25	-49.17	358.80
	39.38	321.69	139.78	246.71	-61.03	446.51
	45.77	373.40	162.28	286.36	-70.73	518.27
	50.75	413.61	179.78	317.20	-78.28	574.09
	54.31	442.33	192.28	339.23	-83.67	613.95
	56.44	459.56	199.78	352.44	-86.91	637.88
	57.31	459.56	200.22	352.44	-85.60	637.88
	55.17	442.33	192.72	339.23	-82.37	613.95
	51.62	413.61	180.22	317.20	-76.98	574.09

	46.64	373.40	162.72	286.36	-69.43	518.27
	40.25	321.69	140.22	246.71	-59.73	446.51
	32.43	258.50	112.72	198.25	-47.87	358.80
	23.18	183.83	80.22	140.98	-33.85	255.15
	12.52	97.66	42.72	74.89	-17.68	135.55
	0.00	0.43	0.00	0.22	0.00	0.65
2.35	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.54	95.73	41.53	73.45	-18.44	132.87
	22.11	180.20	78.37	138.26	-34.14	250.11
	31.28	253.40	110.29	194.43	-47.74	351.71
	39.03	315.35	137.30	241.96	-59.25	437.68
	45.37	366.03	159.40	280.85	-68.67	508.03
	50.30	405.45	176.59	311.09	-75.99	562.74
	53.82	433.60	188.87	332.69	-81.22	601.82
	55.94	450.50	196.24	345.66	-84.36	625.26
	56.81	450.50	196.67	345.66	-83.06	625.26
	54.69	433.60	189.31	332.69	-79.92	601.82
	51.17	405.45	177.03	311.09	-74.69	562.74
	46.24	366.03	159.84	280.85	-67.36	508.03
	39.90	315.35	137.74	241.96	-57.95	437.68
	32.14	253.40	110.72	194.43	-46.44	351.71
	22.98	180.20	78.80	138.26	-32.83	250.11
	12.41	95.73	41.96	73.45	-17.14	132.87
	0.00	0.43	0.00	0.22	0.00	0.65
2.40	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.44	93.88	40.81	72.07	-17.92	130.30
	21.92	176.72	77.01	135.66	-33.16	245.27
	31.01	248.52	108.38	190.77	-46.36	344.91
	38.69	309.27	134.93	237.41	-57.54	429.23
	44.98	358.97	156.65	275.56	-66.68	498.21
	49.87	397.63	173.54	305.24	-73.79	551.86
	53.37	425.24	185.60	326.44	-78.87	590.19
	55.46	441.81	192.84	339.15	-81.92	613.18
	56.33	441.81	193.28	339.15	-80.62	613.18
	54.24	425.24	186.04	326.44	-77.57	590.19
	50.74	397.63	173.97	305.24	-72.49	551.86
	45.85	358.97	157.08	275.56	-65.38	498.21
	39.56	309.27	135.36	237.41	-56.24	429.23
	31.88	248.52	108.81	190.77	-45.06	344.91
	22.79	176.72	77.44	135.66	-31.86	245.27
	12.31	93.88	41.24	72.07	-16.62	130.30
	0.00	0.43	0.00	0.22	0.00	0.65
2.45	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.35	92.11	40.12	70.75	-17.42	127.84
	21.74	173.39	75.71	133.17	-32.22	240.64

	30.75	243.83	106.55	187.27	-45.05	338.40
	38.38	303.44	132.65	233.04	-55.90	421.11
	44.61	352.20	154.00	270.50	-64.78	488.79
	49.46	390.13	170.61	299.63	-71.68	541.43
	52.93	417.22	182.47	320.43	-76.62	579.03
	55.01	433.48	189.59	332.92	-79.57	601.59
	55.88	433.48	190.03	332.92	-78.27	601.59
	53.80	417.22	182.91	320.43	-75.31	579.03
	50.33	390.13	171.04	299.63	-70.38	541.43
	45.48	352.20	154.44	270.50	-63.47	488.79
	39.24	303.44	133.08	233.04	-54.59	421.11
	31.62	243.83	106.98	187.27	-43.74	338.40
	22.61	173.39	76.14	133.17	-30.92	240.64
	12.22	92.11	40.55	70.75	-16.12	127.84
	0.00	0.43	0.00	0.22	0.00	0.65
	-0.43	0.00	-0.22	0.00	-0.65	0.00
2.50	11.25	90.42	39.45	69.47	-16.94	125.48
	21.57	170.19	74.46	130.77	-31.32	236.19
	30.51	239.33	104.79	183.90	-43.78	332.14
	38.07	297.84	130.46	228.85	-54.32	413.33
	44.26	345.71	151.47	265.63	-62.95	479.76
	49.07	382.94	167.80	294.24	-69.65	531.42
	52.51	409.53	179.47	314.67	-74.45	568.33
	54.57	425.48	186.47	326.93	-77.32	590.47
	55.44	425.48	186.90	326.93	-76.02	590.47
	53.38	409.53	179.90	314.67	-73.14	568.33
	49.94	382.94	168.24	294.24	-68.35	531.42
	45.13	345.71	151.90	265.63	-61.64	479.76
	38.94	297.84	130.90	228.85	-53.02	413.33
	31.38	239.33	105.23	183.90	-42.48	332.14
	22.44	170.19	74.89	130.77	-30.02	236.19
	12.12	90.42	39.89	69.47	-15.64	125.48
	0.00	0.43	0.00	0.22	0.00	0.65
	-0.43	0.00	-0.22	0.00	-0.65	0.00
2.55	11.21	88.82	38.86	68.29	-16.44	123.26
	21.48	167.20	73.34	128.55	-30.38	232.02
	30.38	235.12	103.22	180.78	-42.45	326.28
	37.92	292.60	128.50	224.97	-52.67	406.04
	44.08	339.62	149.19	261.12	-61.03	471.29
	48.87	376.20	165.28	289.24	-67.53	522.05
	52.30	402.32	176.77	309.33	-72.17	558.30
	54.35	418.00	183.67	321.38	-74.96	580.05
	55.22	418.00	184.10	321.38	-73.66	580.05
	53.17	402.32	177.21	309.33	-70.87	558.30
	49.74	376.20	165.71	289.24	-66.23	522.05

	44.95	339.62	149.62	261.12	-59.72	471.29
	38.79	292.60	128.94	224.97	-51.36	406.04
	31.25	235.12	103.65	180.78	-41.15	326.28
	22.35	167.20	73.77	128.55	-29.07	232.02
	12.08	88.82	39.29	68.29	-15.14	123.26
	0.00	0.43	0.00	0.22	0.00	0.65
2.60	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.12	87.26	38.25	67.12	-16.00	121.08
	21.32	164.25	72.18	126.34	-29.54	227.91
	30.16	230.97	101.60	177.67	-41.28	320.50
	37.64	287.43	126.48	221.10	-51.21	398.85
	43.76	333.62	146.85	256.63	-59.33	462.95
	48.52	369.55	162.69	284.27	-65.65	512.80
	51.92	395.22	174.00	304.01	-70.17	548.41
	53.95	410.62	180.79	315.86	-72.88	569.78
	54.82	410.62	181.22	315.86	-71.57	569.78
	52.78	395.22	174.43	304.01	-68.86	548.41
	49.38	369.55	163.12	284.27	-64.35	512.80
	44.63	333.62	147.28	256.63	-58.03	462.95
	38.51	287.43	126.92	221.10	-49.91	398.85
	31.03	230.97	102.03	177.67	-39.97	320.50
	22.19	164.25	72.62	126.34	-28.24	227.91
	11.99	87.26	38.68	67.12	-14.70	121.08
	0.00	0.43	0.00	0.22	0.00	0.65
2.65	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.04	85.75	37.66	65.99	-15.57	118.98
	21.17	161.40	71.08	124.22	-28.74	223.96
	29.94	226.98	100.04	174.68	-40.15	314.94
	37.37	282.46	124.55	217.38	-49.80	391.93
	43.45	327.85	144.60	252.31	-57.70	454.92
	48.17	363.16	160.19	279.49	-63.85	503.91
	51.55	388.38	171.33	298.90	-68.24	538.90
	53.57	403.51	178.01	310.54	-70.87	559.90
	54.44	403.51	178.45	310.54	-69.57	559.90
	52.42	388.38	171.77	298.90	-66.93	538.90
	49.04	363.16	160.63	279.49	-62.54	503.91
	44.32	327.85	145.03	252.31	-56.40	454.92
	38.24	282.46	124.98	217.38	-48.50	391.93
	30.81	226.98	100.47	174.68	-38.85	314.94
	22.04	161.40	71.51	124.22	-27.44	223.96
	11.91	85.75	38.09	65.99	-14.27	118.98
	0.00	0.43	0.00	0.22	0.00	0.65
2.70	-0.43	0.00	-0.22	0.00	-0.65	0.00
	10.96	84.29	37.09	64.90	-15.16	116.96
	21.02	158.67	70.01	122.17	-27.96	220.15

	29.74	223.13	98.54	171.80	-39.06	309.59
	37.11	277.67	122.68	213.80	-48.45	385.27
	43.15	322.30	142.43	248.16	-56.13	447.19
	47.84	357.01	157.79	274.88	-62.11	495.35
	51.20	381.80	168.76	293.97	-66.37	529.75
	53.21	396.67	175.35	305.42	-68.93	550.39
	54.08	396.67	175.78	305.42	-67.63	550.39
	52.06	381.80	169.20	293.97	-65.07	529.75
	48.71	357.01	158.23	274.88	-60.80	495.35
	44.02	322.30	142.86	248.16	-54.83	447.19
	37.98	277.67	123.11	213.80	-47.15	385.27
	30.61	223.13	98.97	171.80	-37.76	309.59
	21.89	158.67	70.44	122.17	-26.66	220.15
	11.83	84.29	37.52	64.90	-13.86	116.96
	0.00	0.43	0.00	0.22	0.00	0.65
2.75	-0.43	0.00	-0.22	0.00	-0.65	0.00
	10.89	82.89	36.54	63.86	-14.77	115.01
	20.88	156.03	68.98	120.20	-27.22	216.49
	29.54	219.42	97.09	169.03	-38.01	304.44
	36.87	273.06	120.88	210.35	-47.14	378.86
	42.86	316.94	140.34	244.15	-54.62	439.74
	47.53	351.08	155.48	270.45	-60.43	487.10
	50.86	375.46	166.29	289.23	-64.58	520.93
	52.86	390.09	172.78	300.50	-67.07	541.22
	53.72	390.09	173.21	300.50	-65.77	541.22
	51.73	375.46	166.73	289.23	-63.28	520.93
	48.40	351.08	155.91	270.45	-59.12	487.10
	43.73	316.94	140.78	244.15	-53.31	439.74
	37.74	273.06	121.32	210.35	-45.84	378.86
	30.41	219.42	97.53	169.03	-36.71	304.44
	21.75	156.03	69.42	120.20	-25.92	216.49
	11.76	82.89	36.98	63.86	-13.46	115.01
	0.00	0.43	0.00	0.22	0.00	0.65
2.80	-0.43	0.00	-0.22	0.00	-0.65	0.00
	10.82	81.54	36.02	62.85	-14.38	113.13
	20.75	153.49	67.99	118.30	-26.50	212.95
	29.35	215.85	95.70	166.36	-37.00	299.47
	36.63	268.61	119.15	207.02	-45.88	372.67
	42.59	311.78	138.33	240.29	-53.15	432.56
	47.22	345.36	153.25	266.17	-58.81	479.15
	50.53	369.34	163.91	284.65	-62.85	512.42
	52.52	383.73	170.31	295.74	-65.27	532.39
	53.39	383.73	170.74	295.74	-63.97	532.39
	51.40	369.34	164.35	284.65	-61.54	512.42
	48.09	345.36	153.69	266.17	-57.50	479.15

	43.46	311.78	138.77	240.29	-51.85	432.56
	37.50	268.61	119.58	207.02	-44.58	372.67
	30.22	215.85	96.14	166.36	-35.70	299.47
	21.62	153.49	68.43	118.30	-25.20	212.95
	11.69	81.54	36.45	62.85	-13.08	113.13
	0.00	0.43	0.00	0.22	0.00	0.65
2.85	-0.43	0.00	-0.22	0.00	-0.65	0.00
	10.75	80.24	35.51	61.87	-14.01	111.32
	20.62	151.04	67.04	116.46	-25.80	209.55
	29.17	212.40	94.36	163.78	-36.02	294.67
	36.41	264.32	117.48	203.81	-44.67	366.70
	42.33	306.81	136.39	236.57	-51.74	425.64
	46.93	339.85	151.11	262.04	-57.24	471.48
	50.22	363.45	161.61	280.24	-61.17	504.22
	52.19	377.61	167.92	291.16	-63.53	523.86
	53.06	377.61	168.35	291.16	-62.23	523.86
	51.09	363.45	162.05	280.24	-59.87	504.22
	47.80	339.85	151.54	262.04	-55.94	471.48
	43.20	306.81	136.83	236.57	-50.44	425.64
	37.27	264.32	117.91	203.81	-43.36	366.70
	30.04	212.40	94.79	163.78	-34.72	294.67
	21.49	151.04	67.47	116.46	-24.50	209.55
	11.62	80.24	35.95	61.87	-12.71	111.32
	0.00	0.43	0.00	0.22	0.00	0.65
	2.90	-0.43	0.00	-0.22	0.00	-0.65
10.68		78.98	35.02	60.93	-13.66	109.57
20.49		148.68	66.12	114.69	-25.13	206.25
28.99		209.08	93.06	161.29	-35.08	290.05
36.19		260.18	115.87	200.72	-43.49	360.95
42.07		302.00	134.52	232.97	-50.38	418.95
46.65		334.52	149.03	258.06	-55.73	464.07
49.92		357.75	159.40	275.98	-59.56	496.30
51.88		371.69	165.62	286.74	-61.85	515.64
52.75		371.69	166.05	286.74	-60.55	515.64
50.79		357.75	159.83	275.98	-58.25	496.30
47.52		334.52	149.47	258.06	-54.43	464.07
42.94		302.00	134.96	232.97	-49.07	418.95
37.06		260.18	116.30	200.72	-42.19	360.95
29.86		209.08	93.50	161.29	-33.77	290.05
21.36		148.68	66.55	114.69	-23.83	206.25
11.55		78.98	35.46	60.93	-12.35	109.57
0.00		0.43	0.00	0.22	0.00	0.65
2.95		-0.43	0.00	-0.22	0.00	-0.65
	10.62	77.77	34.55	60.02	-13.31	107.88
	20.37	146.39	65.23	112.99	-24.48	203.08

	28.83	205.86	91.81	158.89	-34.16	285.57
	35.98	256.19	114.31	197.72	-42.35	355.38
	41.83	297.36	132.72	229.50	-49.06	412.50
	46.38	329.38	147.03	254.22	-54.27	456.92
	49.63	352.26	157.26	271.87	-57.99	488.65
	51.58	365.98	163.39	282.46	-60.23	507.69
	52.45	365.98	163.83	282.46	-58.92	507.69
	50.50	352.26	157.69	271.87	-56.69	488.65
	47.25	329.38	147.47	254.22	-52.97	456.92
	42.70	297.36	133.15	229.50	-47.75	412.50
	36.85	256.19	114.74	197.72	-41.05	355.38
	29.69	205.86	92.25	158.89	-32.86	285.57
	21.24	146.39	65.66	112.99	-23.18	203.08
	11.49	77.77	34.98	60.02	-12.01	107.88
	0.00	0.43	0.00	0.22	0.00	0.65
3.00	-0.43	0.00	-0.22	0.00	-0.65	0.00
	10.99	77.03	34.53	59.58	-12.54	106.84
	21.08	145.00	65.19	112.15	-23.03	201.11
	29.82	203.91	91.76	157.72	-32.12	282.81
	37.21	253.76	114.24	196.27	-39.82	351.95
	43.26	294.54	132.64	227.81	-46.11	408.51
	47.97	326.26	146.95	252.35	-51.01	452.50
	51.33	348.92	157.16	269.87	-54.50	483.93
	53.35	362.51	163.30	280.39	-56.60	502.78
	54.22	362.51	163.73	280.39	-55.30	502.78
	52.20	348.92	157.60	269.87	-53.20	483.93
	48.84	326.26	147.38	252.35	-49.70	452.50
	44.13	294.54	133.07	227.81	-44.81	408.51
	38.08	253.76	114.68	196.27	-38.51	351.95
	30.69	203.91	92.19	157.72	-30.82	282.81
	21.95	145.00	65.62	112.15	-21.73	201.11
	11.86	77.03	34.96	59.58	-11.24	106.84
	0.00	0.43	0.00	0.22	0.00	0.65
3.05	-0.43	0.00	-0.22	0.00	-0.65	0.00
	10.93	75.90	34.09	58.73	-12.22	105.26
	20.96	142.87	64.35	110.55	-22.43	198.14
	29.66	200.91	90.59	155.47	-31.27	278.63
	37.01	250.02	112.78	193.47	-38.76	346.74
	43.03	290.20	130.94	224.56	-44.88	402.47
	47.71	321.45	145.07	248.75	-49.64	445.81
	51.06	343.77	155.16	266.02	-53.05	476.77
	53.06	357.16	161.21	276.39	-55.09	495.34
	53.93	357.16	161.65	276.39	-53.78	495.34
	51.92	343.77	155.59	266.02	-51.74	476.77
	48.58	321.45	145.50	248.75	-48.34	445.81

	43.90	290.20	131.38	224.56	-43.58	402.47
	37.88	250.02	113.22	193.47	-37.45	346.74
	30.53	200.91	91.02	155.47	-29.97	278.63
	21.83	142.87	64.79	110.55	-21.12	198.14
	11.80	75.90	34.52	58.73	-10.92	105.26
	0.00	0.43	0.00	0.22	0.00	0.65
3.10	-0.43	0.00	-0.22	0.00	-0.65	0.00
	10.87	74.80	33.66	57.91	-11.91	103.73
	20.85	140.80	63.55	109.01	-21.84	195.26
	29.50	198.00	89.45	153.29	-30.45	274.58
	36.82	246.39	111.37	190.76	-37.73	341.70
	42.81	285.99	129.31	221.42	-43.69	396.62
	47.46	316.79	143.25	245.26	-48.33	439.33
	50.79	338.79	153.22	262.30	-51.64	469.84
	52.79	351.99	159.20	272.52	-53.62	488.15
	53.66	351.99	159.63	272.52	-52.32	488.15
	51.66	338.79	153.65	262.30	-50.33	469.84
	48.33	316.79	143.69	245.26	-47.02	439.33
	43.68	285.99	129.74	221.42	-42.39	396.62
	37.69	246.39	111.81	190.76	-36.43	341.70
	30.37	198.00	89.89	153.29	-29.14	274.58
	21.72	140.80	63.98	109.01	-20.54	195.26
	11.74	74.80	34.09	57.91	-10.60	103.73
	0.00	0.43	0.00	0.22	0.00	0.65
3.15	-0.43	0.00	-0.22	0.00	-0.65	0.00
	10.82	73.73	33.24	57.11	-11.61	102.25
	20.75	138.79	62.77	107.51	-21.27	192.47
	29.35	195.18	88.36	151.18	-29.65	270.66
	36.63	242.89	110.01	188.14	-36.74	336.83
	42.59	281.92	127.72	218.38	-42.54	390.96
	47.23	312.28	141.50	241.89	-47.05	433.06
	50.53	333.97	151.34	258.69	-50.27	463.14
	52.52	346.98	157.24	268.77	-52.20	481.18
	53.39	346.98	157.68	268.77	-50.90	481.18
	51.40	333.97	151.77	258.69	-48.97	463.14
	48.09	312.28	141.93	241.89	-45.74	433.06
	43.46	281.92	128.15	218.38	-41.23	390.96
	37.50	242.89	110.44	188.14	-35.43	336.83
	30.22	195.18	88.79	151.18	-28.35	270.66
	21.62	138.79	63.20	107.51	-19.97	192.47
	11.69	73.73	33.68	57.11	-10.30	102.25
	0.00	0.43	0.00	0.22	0.00	0.65
3.20	-0.43	0.00	-0.22	0.00	-0.65	0.00
	10.76	72.70	32.84	56.34	-11.31	100.82
	20.65	136.85	62.01	106.06	-20.72	189.77

	29.21	192.45	87.29	149.14	-28.88	266.87
	36.45	239.49	108.68	185.60	-35.77	332.10
	42.38	277.98	126.19	215.43	-41.42	385.48
	46.99	307.92	139.80	238.63	-45.81	426.99
	50.29	329.30	149.52	255.20	-48.94	456.64
	52.26	342.13	155.36	265.14	-50.83	474.43
	53.13	342.13	155.79	265.14	-49.52	474.43
	51.16	329.30	149.96	255.20	-47.64	456.64
	47.86	307.92	140.23	238.63	-44.51	426.99
	43.25	277.98	126.62	215.43	-40.12	385.48
	37.32	239.49	109.12	185.60	-34.47	332.10
	30.08	192.45	87.73	149.14	-27.57	266.87
	21.51	136.85	62.45	106.06	-19.42	189.77
	11.63	72.70	33.28	56.34	-10.01	100.82
	0.00	0.43	0.00	0.22	0.00	0.65
3.25	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.14	72.13	32.88	56.02	-10.60	100.01
	21.35	135.78	62.09	105.46	-19.38	188.25
	30.20	190.94	87.40	148.30	-26.99	264.72
	37.69	237.62	108.82	184.55	-33.43	329.43
	43.82	275.80	126.34	214.21	-38.69	382.38
	48.59	305.51	139.97	237.28	-42.79	423.56
	51.99	326.72	149.70	253.76	-45.72	452.97
	54.04	339.45	155.54	263.64	-47.47	470.62
	54.90	339.45	155.98	263.64	-46.17	470.62
	52.86	326.72	150.14	253.76	-44.41	452.97
	49.46	305.51	140.40	237.28	-41.49	423.56
	44.69	275.80	126.77	214.21	-37.39	382.38
	38.56	237.62	109.25	184.55	-32.12	329.43
	31.07	190.94	87.83	148.30	-25.69	264.72
	22.22	135.78	62.52	105.46	-18.08	188.25
	12.01	72.13	33.32	56.02	-9.30	100.01
0.00	0.43	0.00	0.22	0.00	0.65	
3.30	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.09	71.16	32.50	55.30	-10.33	98.66
	21.26	133.96	61.38	104.09	-18.86	185.71
	30.07	188.37	86.40	146.38	-26.26	261.15
	37.52	234.42	107.57	182.16	-32.52	324.99
	43.62	272.10	124.89	211.44	-37.65	377.22
	48.37	301.40	138.37	234.21	-41.63	417.84
	51.76	322.33	147.99	250.47	-44.48	446.86
	53.79	334.89	153.76	260.23	-46.18	464.27
	54.66	334.89	154.20	260.23	-44.88	464.27
	52.63	322.33	148.42	250.47	-43.17	446.86
	49.24	301.40	138.80	234.21	-40.33	417.84

	44.49	272.10	125.33	211.44	-36.34	377.22
	38.39	234.42	108.00	182.16	-31.22	324.99
	30.94	188.37	86.83	146.38	-24.96	261.15
	22.12	133.96	61.81	104.09	-17.56	185.71
	11.96	71.16	32.94	55.30	-9.02	98.66
	0.00	0.43	0.00	0.22	0.00	0.65
3.35	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.04	70.22	32.14	54.60	-10.06	97.35
	21.16	132.18	60.68	102.77	-18.36	183.25
	29.93	185.88	85.43	144.52	-25.56	257.69
	37.36	231.32	106.36	179.84	-31.65	320.68
	43.43	268.50	123.49	208.75	-36.63	372.22
	48.15	297.42	136.81	231.23	-40.50	412.30
	51.53	318.07	146.33	247.28	-43.27	440.94
	53.55	330.46	152.04	256.92	-44.93	458.11
	54.42	330.46	152.47	256.92	-43.63	458.11
	52.40	318.07	146.76	247.28	-41.97	440.94
	49.02	297.42	137.25	231.23	-39.20	412.30
	44.30	268.50	123.92	208.75	-35.33	372.22
	38.23	231.32	106.80	179.84	-30.34	320.68
	30.80	185.88	85.86	144.52	-24.26	257.69
	22.03	132.18	61.12	102.77	-17.06	183.25
	11.91	70.22	32.57	54.60	-8.76	97.35
	0.00	0.43	0.00	0.22	0.00	0.65
3.40	-0.43	0.00	-0.22	0.00	-0.65	0.00
	10.99	69.31	31.78	53.91	-9.80	96.08
	21.07	130.47	60.02	101.48	-17.88	180.86
	29.80	183.47	84.48	142.71	-24.87	254.33
	37.20	228.32	105.19	177.59	-30.80	316.50
	43.24	265.01	122.13	206.13	-35.64	367.36
	47.95	293.55	135.31	228.33	-39.41	406.93
	51.31	313.94	144.72	244.19	-42.10	435.18
	53.32	326.17	150.36	253.70	-43.72	452.14
	54.19	326.17	150.80	253.70	-42.41	452.14
	52.18	313.94	145.15	244.19	-40.80	435.18
	48.82	293.55	135.74	228.33	-38.11	406.93
	44.11	265.01	122.56	206.13	-34.34	367.36
	38.07	228.32	105.62	177.59	-29.49	316.50
	30.67	183.47	84.92	142.71	-23.57	254.33
	21.94	130.47	60.45	101.48	-16.57	180.86
	11.86	69.31	32.22	53.91	-8.50	96.08
	0.00	0.43	0.00	0.22	0.00	0.65
3.45	-0.43	0.00	-0.22	0.00	-0.65	0.00
	10.98	68.46	31.47	53.29	-9.51	94.90
	21.05	128.87	59.44	100.31	-17.33	178.63

	29.78	181.23	83.67	141.06	-24.11	251.20
	37.17	225.53	104.18	175.54	-29.84	312.61
	43.21	261.77	120.96	203.75	-34.53	362.85
	47.91	289.96	134.01	225.69	-38.18	401.93
	51.27	310.10	143.33	241.36	-40.79	429.84
	53.28	322.18	148.92	250.77	-42.35	446.58
	54.15	322.18	149.35	250.77	-41.05	446.58
	52.14	310.10	143.76	241.36	-39.48	429.84
	48.78	289.96	134.44	225.69	-36.88	401.93
	44.08	261.77	121.39	203.75	-33.23	362.85
	38.04	225.53	104.61	175.54	-28.54	312.61
	30.65	181.23	84.11	141.06	-22.80	251.20
	21.92	128.87	59.87	100.31	-16.03	178.63
	11.85	68.46	31.91	53.29	-8.21	94.90
	0.00	0.43	0.00	0.22	0.00	0.65
3.50	-0.43	0.00	-0.22	0.00	-0.65	0.00
	10.94	67.60	31.14	52.64	-9.27	93.70
	20.97	127.25	58.81	99.09	-16.87	176.38
	29.66	178.95	82.78	139.35	-23.46	248.03
	37.02	222.69	103.07	173.42	-29.04	308.67
	43.04	258.48	119.67	201.29	-33.60	358.27
	47.72	286.32	132.59	222.96	-37.15	396.86
	51.06	306.20	141.81	238.45	-39.68	424.42
	53.07	318.13	147.34	247.74	-41.20	440.95
	53.94	318.13	147.78	247.74	-39.90	440.95
	51.93	306.20	142.24	238.45	-38.38	424.42
	48.59	286.32	133.02	222.96	-35.85	396.86
	43.91	258.48	120.11	201.29	-32.30	358.27
	37.89	222.69	103.51	173.42	-27.73	308.67
	30.53	178.95	83.22	139.35	-22.16	248.03
	21.84	127.25	59.24	99.09	-15.57	176.38
	11.80	67.60	31.57	52.64	-7.97	93.70
	0.00	0.43	0.00	0.22	0.00	0.65
3.55	-0.43	0.00	-0.22	0.00	-0.65	0.00
	10.89	66.77	30.81	52.02	-9.03	92.54
	20.88	125.68	58.19	97.92	-16.43	174.19
	29.54	176.73	81.92	137.70	-22.83	244.96
	36.87	219.94	102.00	171.35	-28.26	304.83
	42.87	255.28	118.43	198.89	-32.69	353.82
	47.53	282.77	131.21	220.31	-36.14	391.93
	50.86	302.41	140.33	235.61	-38.61	419.15
	52.86	314.19	145.81	244.79	-40.09	435.48
	53.73	314.19	146.24	244.79	-38.78	435.48
	51.73	302.41	140.77	235.61	-37.31	419.15
	48.40	282.77	131.64	220.31	-34.84	391.93

	43.74	255.28	118.86	198.89	-31.39	353.82
	37.74	219.94	102.44	171.35	-26.95	304.83
	30.41	176.73	82.36	137.70	-21.53	244.96
	21.75	125.68	58.63	97.92	-15.12	174.19
	11.76	66.77	31.25	52.02	-7.73	92.54
	0.00	0.43	0.00	0.22	0.00	0.65
3.60	-0.43	0.00	-0.22	0.00	-0.65	0.00
	10.85	65.95	30.50	51.41	-8.80	91.41
	20.80	124.15	57.60	96.77	-15.99	172.06
	29.43	174.58	81.08	136.09	-22.22	241.96
	36.73	217.26	100.96	169.35	-27.50	301.11
	42.70	252.17	117.22	196.57	-31.81	349.50
	47.35	279.33	129.87	217.74	-35.17	387.14
	50.67	298.73	138.90	232.86	-37.56	414.02
	52.66	310.37	144.32	241.93	-39.00	430.16
	53.53	310.37	144.75	241.93	-37.70	430.16
	51.54	298.73	139.33	232.86	-36.26	414.02
	48.22	279.33	130.30	217.74	-33.86	387.14
	43.57	252.17	117.65	196.57	-30.51	349.50
	37.60	217.26	101.39	169.35	-26.19	301.11
	30.30	174.58	81.52	136.09	-20.92	241.96
	21.67	124.15	58.03	96.77	-14.69	172.06
	11.72	65.95	30.93	51.41	-7.50	91.41
	0.00	0.43	0.00	0.22	0.00	0.65
3.65	-0.43	0.00	-0.22	0.00	-0.65	0.00
	10.81	65.16	30.19	50.82	-8.58	90.31
	20.72	122.66	57.02	95.66	-15.57	169.99
	29.32	172.49	80.27	134.52	-21.63	239.05
	36.59	214.65	99.95	167.40	-26.76	297.49
	42.55	249.15	116.04	194.31	-30.95	345.30
	47.17	275.98	128.56	215.23	-34.21	382.48
	50.48	295.15	137.51	230.18	-36.55	409.04
	52.46	306.65	142.87	239.15	-37.94	424.98
	53.33	306.65	143.31	239.15	-36.64	424.98
	51.35	295.15	137.94	230.18	-35.24	409.04
	48.04	275.98	129.00	215.23	-32.91	382.48
	43.41	249.15	116.48	194.31	-29.65	345.30
	37.46	214.65	100.38	167.40	-25.45	297.49
	30.19	172.49	80.70	134.52	-20.33	239.05
	21.59	122.66	57.45	95.66	-14.27	169.99
	11.68	65.16	30.62	50.82	-7.27	90.31
	0.00	0.43	0.00	0.22	0.00	0.65
3.70	-0.43	0.00	-0.22	0.00	-0.65	0.00
	10.77	64.39	29.89	50.24	-8.36	89.24
	20.65	121.21	56.46	94.58	-15.16	167.98

	29.21	170.45	79.48	133.00	-21.05	236.22
	36.46	212.12	98.96	165.51	-26.04	293.96
	42.39	246.21	114.90	192.11	-30.12	341.21
	47.00	272.73	127.30	212.80	-33.29	377.95
	50.30	291.67	136.15	227.58	-35.55	404.20
	52.27	303.03	141.46	236.44	-36.91	419.95
	53.14	303.03	141.90	236.44	-35.61	419.95
	51.17	291.67	136.59	227.58	-34.25	404.20
	47.87	272.73	127.73	212.80	-31.98	377.95
	43.26	246.21	115.33	192.11	-28.81	341.21
	37.33	212.12	99.39	165.51	-24.73	293.96
	30.08	170.45	79.91	133.00	-19.75	236.22
	21.52	121.21	56.89	94.58	-13.85	167.98
	11.64	64.39	30.32	50.24	-7.05	89.24
	0.00	0.43	0.00	0.22	0.00	0.65
3.75	-0.43	0.00	-0.22	0.00	-0.65	0.00
	10.73	63.65	29.60	49.68	-8.14	88.20
	20.58	119.80	55.91	93.52	-14.76	166.02
	29.11	168.47	78.71	131.52	-20.49	233.47
	36.33	209.66	98.00	163.67	-25.33	290.53
	42.24	243.35	113.79	189.97	-29.30	337.23
	46.84	269.56	126.06	210.43	-32.39	373.54
	50.12	288.28	134.83	225.04	-34.59	399.48
	52.09	299.51	140.09	233.81	-35.91	415.05
	52.96	299.51	140.53	233.81	-34.61	415.05
	50.99	288.28	135.27	225.04	-33.29	399.48
	47.71	269.56	126.50	210.43	-31.08	373.54
	43.11	243.35	114.22	189.97	-28.00	337.23
	37.20	209.66	98.43	163.67	-24.03	290.53
	29.98	168.47	79.14	131.52	-19.18	233.47
	21.44	119.80	56.34	93.52	-13.45	166.02
	11.60	63.65	30.03	49.68	-6.84	88.20
	0.00	0.43	0.00	0.22	0.00	0.65
3.80	-0.43	0.00	-0.22	0.00	-0.65	0.00
	10.69	62.92	29.32	49.14	-7.94	87.18
	20.50	118.43	55.37	92.50	-14.37	164.11
	29.01	166.55	77.96	130.08	-19.94	230.78
	36.21	207.26	97.07	161.87	-24.65	287.20
	42.10	240.57	112.70	187.89	-28.51	333.35
	46.68	266.47	124.86	208.12	-31.51	369.25
	49.95	284.98	133.55	222.57	-33.65	394.89
	51.91	296.08	138.76	231.25	-34.94	410.28
	52.78	296.08	139.19	231.25	-33.63	410.28
	50.82	284.98	133.98	222.57	-32.35	394.89
	47.55	266.47	125.30	208.12	-30.20	369.25

	42.97	240.57	113.14	187.89	-27.20	333.35
	37.08	207.26	97.50	161.87	-23.35	287.20
	29.88	166.55	78.39	130.08	-18.63	230.78
	21.37	118.43	55.81	92.50	-13.06	164.11
	11.56	62.92	29.75	49.14	-6.63	87.18
	0.00	0.43	0.00	0.22	0.00	0.65
3.85	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.11	62.66	29.49	49.06	-7.28	86.81
	21.29	117.95	55.71	92.35	-13.13	163.41
	30.12	165.87	78.43	129.87	-18.20	229.79
	37.58	206.42	97.65	161.62	-22.49	285.96
	43.69	239.59	113.38	187.60	-26.00	331.92
	48.45	265.39	125.62	207.80	-28.73	367.67
	51.84	283.82	134.36	222.23	-30.68	393.20
	53.88	294.88	139.60	230.89	-31.85	408.52
	54.75	294.88	140.03	230.89	-30.54	408.52
	52.71	283.82	134.79	222.23	-29.37	393.20
	49.31	265.39	126.05	207.80	-27.42	367.67
	44.56	239.59	113.82	187.60	-24.69	331.92
	38.45	206.42	98.09	161.62	-21.18	285.96
	30.98	165.87	78.86	129.87	-16.89	229.79
	22.16	117.95	56.14	92.35	-11.83	163.41
	11.98	62.66	29.93	49.06	-5.98	86.81
	0.00	0.43	0.00	0.22	0.00	0.65
	3.90	-0.43	0.00	-0.22	0.00	-0.65
11.07		61.97	29.22	48.55	-7.08	85.85
21.22		116.65	55.20	91.38	-12.76	161.60
30.02		164.04	77.72	128.50	-17.68	227.25
37.46		204.14	96.77	159.92	-21.84	282.79
43.55		236.94	112.35	185.62	-25.25	328.24
48.29		262.46	124.48	205.61	-27.89	363.59
51.67		280.69	133.14	219.88	-29.79	388.84
53.70		291.62	138.33	228.45	-30.92	403.99
54.57		291.62	138.77	228.45	-29.62	403.99
52.54		280.69	133.57	219.88	-28.48	388.84
49.16		262.46	124.91	205.61	-26.59	363.59
44.42		236.94	112.79	185.62	-23.94	328.24
38.33		204.14	97.20	159.92	-20.54	282.79
30.89		164.04	78.15	128.50	-16.38	227.25
22.09		116.65	55.64	91.38	-11.46	161.60
11.94		61.97	29.66	48.55	-5.78	85.85
0.00		0.43	0.00	0.22	0.00	0.65
3.95		-0.43	0.00	-0.22	0.00	-0.65
	11.03	61.30	28.96	48.04	-6.89	84.91
	21.15	115.38	54.71	90.43	-12.40	159.83

	29.92	162.25	77.02	127.17	-17.17	224.76
	37.35	201.91	95.90	158.25	-21.21	279.70
	43.42	234.37	111.35	183.69	-24.51	324.66
	48.14	259.60	123.36	203.47	-27.08	359.62
	51.51	277.63	131.95	217.60	-28.92	384.59
	53.54	288.45	137.10	226.08	-30.02	399.58
	54.41	288.45	137.53	226.08	-28.72	399.58
	52.38	277.63	132.38	217.60	-27.62	384.59
	49.01	259.60	123.80	203.47	-25.78	359.62
	44.29	234.37	111.78	183.69	-23.21	324.66
	38.21	201.91	96.34	158.25	-19.91	279.70
	30.79	162.25	77.46	127.17	-15.87	224.76
	22.02	115.38	55.14	90.43	-11.10	159.83
	11.90	61.30	29.40	48.04	-5.59	84.91
	0.00	0.43	0.00	0.22	0.00	0.65
4.00	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.00	60.64	28.71	47.55	-6.71	84.00
	21.09	114.14	54.23	89.51	-12.05	158.11
	29.83	160.51	76.34	125.87	-16.68	222.34
	37.23	199.75	95.06	156.63	-20.59	276.69
	43.29	231.85	110.37	181.81	-23.80	321.16
	47.99	256.82	122.28	201.39	-26.29	355.75
	51.36	274.66	130.79	215.37	-28.07	380.45
	53.37	285.36	135.89	223.76	-29.14	395.27
	54.24	285.36	136.33	223.76	-27.84	395.27
	52.23	274.66	131.22	215.37	-26.77	380.45
	48.86	256.82	122.71	201.39	-24.99	355.75
	44.15	231.85	110.81	181.81	-22.50	321.16
	38.10	199.75	95.49	156.63	-19.29	276.69
	30.70	160.51	76.78	125.87	-15.37	222.34
	21.96	114.14	54.66	89.51	-10.74	158.11
	11.87	60.64	29.14	47.55	-5.40	84.00
0.00	0.43	0.00	0.22	0.00	0.65	
4.05	-0.43	0.00	-0.22	0.00	-0.65	0.00
	10.97	60.00	28.46	47.07	-6.52	83.10
	21.03	112.94	53.76	88.60	-11.70	156.43
	29.74	158.82	75.68	124.60	-16.19	219.98
	37.12	197.64	94.24	155.05	-19.99	273.75
	43.16	229.40	109.42	179.97	-23.10	317.75
	47.85	254.11	121.22	199.36	-25.52	351.97
	51.20	271.75	129.66	213.20	-27.25	376.41
	53.22	282.34	134.72	221.51	-28.28	391.08
	54.09	282.34	135.15	221.51	-26.98	391.08
	52.07	271.75	130.09	213.20	-25.94	376.41
	48.72	254.11	121.66	199.36	-24.22	351.97

	44.03	229.40	109.85	179.97	-21.80	317.75
	37.99	197.64	94.67	155.05	-18.69	273.75
	30.61	158.82	76.12	124.60	-14.89	219.98
	21.89	112.94	54.19	88.60	-10.40	156.43
	11.84	60.00	28.89	47.07	-5.22	83.10
	0.00	0.43	0.00	0.22	0.00	0.65
4.10	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.38	59.82	28.66	47.05	-5.90	82.84
	21.81	112.61	54.15	88.57	-10.52	155.94
	30.85	158.35	76.23	124.55	-14.53	219.29
	38.50	197.06	94.92	155.00	-17.93	272.89
	44.75	228.73	110.21	179.91	-20.70	316.75
	49.62	253.36	122.10	199.28	-22.86	350.86
	53.10	270.96	130.59	213.12	-24.40	375.22
	55.18	281.51	135.69	221.42	-25.33	389.84
	56.05	281.51	136.12	221.42	-24.02	389.84
	53.96	270.96	131.03	213.12	-23.10	375.22
	50.49	253.36	122.53	199.28	-21.56	350.86
	45.62	228.73	110.64	179.91	-19.40	316.75
	39.37	197.06	95.35	155.00	-16.62	272.89
	31.72	158.35	76.66	124.55	-13.23	219.29
	22.68	112.61	54.58	88.57	-9.22	155.94
	12.25	59.82	29.10	47.05	-4.59	82.84
	0.00	0.43	0.00	0.22	0.00	0.65
	4.15	-0.43	0.00	-0.22	0.00	-0.65
11.35		59.21	28.42	46.60	-5.72	81.99
21.75		111.46	53.70	87.71	-10.20	154.34
30.76		156.74	75.60	123.34	-14.07	217.04
38.39		195.05	94.13	153.49	-17.36	270.09
44.63		226.40	109.30	178.16	-20.04	313.50
49.48		250.78	121.09	197.35	-22.13	347.26
52.95		268.19	129.51	211.05	-23.62	371.37
55.03		278.64	134.57	219.27	-24.51	385.84
55.90		278.64	135.00	219.27	-23.21	385.84
53.82		268.19	129.95	211.05	-22.32	371.37
50.35		250.78	121.53	197.35	-20.82	347.26
45.50		226.40	109.73	178.16	-18.74	313.50
39.26		195.05	94.57	153.49	-16.05	270.09
31.63		156.74	76.03	123.34	-12.77	217.04
22.62		111.46	54.13	87.71	-8.89	154.34
12.22		59.21	28.86	46.60	-4.42	81.99
0.00		0.43	0.00	0.22	0.00	0.65
4.20		-0.43	0.00	-0.22	0.00	-0.65
	11.32	58.61	28.19	46.15	-5.55	81.16
	21.69	110.33	53.26	86.87	-9.88	152.78

	30.68	155.16	74.99	122.16	-13.63	214.84
	38.28	193.08	93.37	152.02	-16.80	267.36
	44.51	224.12	108.41	176.45	-19.39	310.33
	49.35	248.25	120.11	195.46	-21.41	343.75
	52.80	265.49	128.46	209.03	-22.85	367.62
	54.88	275.83	133.48	217.17	-23.72	381.94
	55.75	275.83	133.91	217.17	-22.41	381.94
	53.67	265.49	128.90	209.03	-21.55	367.62
	50.22	248.25	120.54	195.46	-20.11	343.75
	45.38	224.12	108.84	176.45	-18.09	310.33
	39.15	193.08	93.80	152.02	-15.49	267.36
	31.55	155.16	75.42	122.16	-12.32	214.84
	22.56	110.33	53.69	86.87	-8.57	152.78
	12.19	58.61	28.63	46.15	-4.25	81.16
	0.00	0.43	0.00	0.22	0.00	0.65
4.25	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.29	58.03	27.97	45.71	-5.39	80.35
	21.63	109.24	52.83	86.05	-9.57	151.25
	30.60	153.62	74.39	121.01	-13.19	212.70
	38.18	191.17	92.62	150.59	-16.25	264.69
	44.39	221.89	107.54	174.79	-18.76	307.23
	49.22	245.79	119.15	193.61	-20.71	340.32
	52.67	262.85	127.44	207.06	-22.11	363.95
	54.73	273.10	132.41	215.12	-22.94	378.13
	55.60	273.10	132.84	215.12	-21.64	378.13
	53.53	262.85	127.87	207.06	-20.80	363.95
	50.09	245.79	119.58	193.61	-19.41	340.32
	45.26	221.89	107.98	174.79	-17.46	307.23
	39.05	191.17	93.06	150.59	-14.95	264.69
	31.47	153.62	74.82	121.01	-11.89	212.70
	22.50	109.24	53.27	86.05	-8.26	151.25
	12.16	58.03	28.40	45.71	-4.08	80.35
	0.00	0.43	0.00	0.22	0.00	0.65
4.30	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.30	57.50	27.78	45.33	-5.19	79.61
	21.65	108.24	52.49	85.32	-9.19	149.86
	30.62	152.21	73.90	119.98	-12.66	210.74
	38.21	189.42	92.01	149.31	-15.60	262.25
	44.42	219.86	106.84	173.31	-18.00	304.40
	49.25	243.54	118.37	191.97	-19.87	337.18
	52.70	260.45	126.60	205.30	-21.21	360.60
	54.77	270.60	131.54	213.30	-22.01	374.65
	55.64	270.60	131.98	213.30	-20.70	374.65
	53.57	260.45	127.04	205.30	-19.90	360.60
	50.12	243.54	118.80	191.97	-18.57	337.18

	45.29	219.86	107.27	173.31	-16.70	304.40
	39.08	189.42	92.45	149.31	-14.30	262.25
	31.49	152.21	74.33	119.98	-11.36	210.74
	22.52	108.24	52.92	85.32	-7.89	149.86
	12.17	57.50	28.22	45.33	-3.89	79.61
	0.00	0.43	0.00	0.22	0.00	0.65
4.35	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.27	56.95	27.57	44.91	-5.03	78.84
	21.59	107.19	52.08	84.54	-8.90	148.40
	30.54	150.74	73.33	118.88	-12.25	208.69
	38.11	187.59	91.30	147.94	-15.08	259.71
	44.31	217.74	106.01	171.72	-17.40	301.45
	49.12	241.18	117.45	190.21	-19.20	333.91
	52.57	257.93	125.62	203.42	-20.49	357.10
	54.63	267.98	130.53	211.34	-21.26	371.01
	55.50	267.98	130.96	211.34	-19.96	371.01
	53.43	257.93	126.06	203.42	-19.19	357.10
	49.99	241.18	117.89	190.21	-17.90	333.91
	45.17	217.74	106.45	171.72	-16.10	301.45
	38.98	187.59	91.74	147.94	-13.78	259.71
	31.41	150.74	73.76	118.88	-10.94	208.69
	22.46	107.19	52.51	84.54	-7.59	148.40
	12.14	56.95	28.00	44.91	-3.73	78.84
	0.00	0.43	0.00	0.22	0.00	0.65
4.40	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.24	56.40	27.35	44.50	-4.88	78.08
	21.54	106.17	51.68	83.77	-8.61	146.98
	30.46	149.30	72.77	117.81	-11.84	206.69
	38.02	185.80	90.61	146.60	-14.57	257.22
	44.20	215.66	105.20	170.17	-16.81	298.56
	49.00	238.89	116.56	188.49	-18.55	330.71
	52.44	255.47	124.67	201.58	-19.79	353.68
	54.50	265.43	129.53	209.43	-20.54	367.46
	55.37	265.43	129.97	209.43	-19.23	367.46
	53.31	255.47	125.10	201.58	-18.49	353.68
	49.87	238.89	116.99	188.49	-17.25	330.71
	45.07	215.66	105.64	170.17	-15.51	298.56
	38.89	185.80	91.04	146.60	-13.27	257.22
	31.33	149.30	73.20	117.81	-10.53	206.69
	22.41	106.17	52.12	83.77	-7.30	146.98
	12.11	56.40	27.79	44.50	-3.57	78.08
	0.00	0.43	0.00	0.22	0.00	0.65
4.45	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.21	55.87	27.15	44.11	-4.73	77.35
	21.49	105.17	51.29	83.03	-8.32	145.59

	30.39	147.90	72.22	116.76	-11.44	204.74
	37.93	184.05	89.93	145.30	-14.08	254.79
	44.09	213.63	104.41	168.65	-16.23	295.74
	48.89	236.64	115.68	186.81	-17.91	327.59
	52.31	253.07	123.73	199.78	-19.11	350.34
	54.37	262.93	128.56	207.57	-19.83	363.99
	55.23	262.93	128.99	207.57	-18.52	363.99
	53.18	253.07	124.17	199.78	-17.81	350.34
	49.75	236.64	116.12	186.81	-16.61	327.59
	44.96	213.63	104.85	168.65	-14.93	295.74
	38.79	184.05	90.36	145.30	-12.77	254.79
	31.26	147.90	72.65	116.76	-10.13	204.74
	22.35	105.17	51.73	83.03	-7.02	145.59
	12.08	55.87	27.58	44.11	-3.42	77.35
	0.00	0.43	0.00	0.22	0.00	0.65
4.50	-0.43	0.00	-0.22	0.00	-0.65	0.00
	11.18	55.35	26.95	43.72	-4.58	76.63
	21.43	104.20	50.91	82.30	-8.04	144.24
	30.32	146.53	71.69	115.73	-11.05	202.83
	37.84	182.34	89.26	144.02	-13.59	252.41
	43.99	211.65	103.64	167.17	-15.67	292.98
	48.77	234.44	114.83	185.17	-17.29	324.53
	52.19	250.72	122.82	198.03	-18.44	347.07
	54.24	260.49	127.61	205.74	-19.13	360.59
	55.11	260.49	128.04	205.74	-17.83	360.59
	53.06	250.72	123.25	198.03	-17.14	347.07
	49.64	234.44	115.26	185.17	-15.98	324.53
	44.86	211.65	104.08	167.17	-14.36	292.98
	38.71	182.34	89.70	144.02	-12.29	252.41
	31.19	146.53	72.12	115.73	-9.74	202.83
	22.30	104.20	51.35	82.30	-6.74	144.24
	12.05	55.35	27.38	43.72	-3.28	76.63
	0.00	0.43	0.00	0.22	0.00	0.65

En la Tabla 23 se muestran las combinaciones de esfuerzos para los montantes en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 23. Combinación de esfuerzos de los montantes - 18 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Mín (KN)	Máx(KN)	Mín (KN)	Máx(KN)	Mín (KN)	Máx(KN)
0.50	1.15	8.21	3.66	6.34	-1.36	11.39
	-123.20	-17.55	-95.03	-55.06	-170.92	19.96
	-106.78	-15.25	-82.36	-47.74	-148.13	17.25

	-90.35	-12.94	-69.69	-40.42	-125.34	14.53
	-73.92	-10.64	-57.02	-33.09	-102.55	11.82
	-57.50	-8.33	-44.35	-25.77	-79.76	9.10
	-41.07	-6.03	-31.68	-18.44	-56.97	6.39
	-24.64	-3.72	-19.01	-11.12	-34.18	3.67
	-8.21	-1.42	-6.34	-3.79	-11.39	0.96
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.21	-0.89	-6.34	-3.53	-11.39	1.75
	-24.64	-3.19	-19.01	-10.85	-34.18	4.47
	-41.07	-5.50	-31.68	-18.18	-56.97	7.18
	-57.50	-7.80	-44.35	-25.50	-79.76	9.90
	-73.92	-10.11	-57.02	-32.83	-102.55	12.61
	-90.35	-12.41	-69.69	-40.15	-125.34	15.33
	-106.78	-14.72	-82.36	-47.48	-148.13	18.04
	-123.20	-17.02	-95.03	-54.80	-170.92	20.76
	1.15	8.21	3.66	6.34	-1.36	11.39
0.55	1.08	8.14	3.59	6.26	-1.43	11.30
	-122.13	-16.50	-93.96	-54.00	-169.47	21.00
	-105.85	-14.34	-81.43	-46.82	-146.87	18.14
	-89.56	-12.18	-68.90	-39.64	-124.28	15.28
	-73.28	-10.02	-56.37	-32.46	-101.68	12.42
	-56.99	-7.86	-43.85	-25.28	-79.09	9.57
	-40.71	-5.70	-31.32	-18.10	-56.49	6.71
	-24.43	-3.53	-18.79	-10.92	-33.89	3.85
	-8.14	-1.37	-6.26	-3.74	-11.30	0.99
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.14	-0.79	-6.26	-3.44	-11.30	1.87
	-24.43	-2.95	-18.79	-10.63	-33.89	4.72
	-40.71	-5.11	-31.32	-17.81	-56.49	7.58
	-56.99	-7.27	-43.85	-24.99	-79.09	10.44
	-73.28	-9.44	-56.37	-32.17	-101.68	13.30
	-89.56	-11.60	-68.90	-39.35	-124.28	16.16
	-105.85	-13.76	-81.43	-46.53	-146.87	19.01
	-122.13	-15.92	-93.96	-53.71	-169.47	21.87
	1.08	8.14	3.59	6.26	-1.43	11.30
0.60	0.96	8.02	3.47	6.14	-1.55	11.13
	-120.26	-14.66	-92.08	-52.15	-166.94	22.83
	-104.22	-12.75	-79.81	-45.21	-144.68	19.72
	-88.19	-10.83	-67.53	-38.28	-122.42	16.61
	-72.15	-8.92	-55.25	-31.35	-100.17	13.51
	-56.12	-7.01	-42.97	-24.42	-77.91	10.40
	-40.09	-5.10	-30.69	-17.49	-55.65	7.29
	-24.05	-3.19	-18.42	-10.56	-33.39	4.18
	-8.02	-1.27	-6.14	-3.62	-11.13	1.08
	0.00	0.00	0.00	0.00	0.00	0.00

	-8.02	-0.64	-6.14	-3.31	-11.13	2.03
	-24.05	-2.55	-18.42	-10.24	-33.39	5.14
	-40.09	-4.46	-30.69	-17.17	-55.65	8.25
	-56.12	-6.37	-42.97	-24.10	-77.91	11.35
	-72.15	-8.29	-55.25	-31.03	-100.17	14.46
	-88.19	-10.20	-67.53	-37.96	-122.42	17.57
	-104.22	-12.11	-79.81	-44.90	-144.68	20.68
	-120.26	-14.02	-92.08	-51.83	-166.94	23.78
	0.96	8.02	3.47	6.14	-1.55	11.13
	0.91	7.97	3.42	6.09	-1.60	11.06
	-119.54	-13.97	-91.37	-51.44	-165.97	23.51
	-103.60	-12.15	-79.18	-44.60	-143.84	20.30
	-87.66	-10.33	-67.00	-37.77	-121.71	17.10
	-71.72	-8.52	-54.82	-30.93	-99.58	13.90
	-55.79	-6.70	-42.64	-24.10	-77.45	10.69
	-39.85	-4.89	-30.46	-17.26	-55.32	7.49
	-23.91	-3.07	-18.27	-10.43	-33.19	4.29
	-7.97	-1.25	-6.09	-3.59	-11.06	1.08
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.97	-0.56	-6.09	-3.25	-11.06	2.12
	-23.91	-2.38	-18.27	-10.08	-33.19	5.32
	-39.85	-4.20	-30.46	-16.92	-55.32	8.52
	-55.79	-6.01	-42.64	-23.75	-77.45	11.73
	-71.72	-7.83	-54.82	-30.59	-99.58	14.93
	-87.66	-9.64	-67.00	-37.42	-121.71	18.13
	-103.60	-11.46	-79.18	-44.26	-143.84	21.34
	-119.54	-13.28	-91.37	-51.10	-165.97	24.54
	0.91	7.97	3.42	6.09	-1.60	11.06
	0.83	7.89	3.34	6.01	-1.68	10.95
	-118.30	-12.75	-90.13	-50.22	-164.30	24.71
	-102.53	-11.10	-78.11	-43.54	-142.39	21.34
	-86.75	-9.45	-66.09	-36.87	-120.49	17.97
	-70.98	-7.80	-54.08	-30.20	-98.58	14.60
	-55.21	-6.15	-42.06	-23.53	-76.67	11.23
	-39.43	-4.50	-30.04	-16.86	-54.77	7.86
	-23.66	-2.85	-18.03	-10.19	-32.86	4.50
	-7.89	-1.20	-6.01	-3.52	-10.95	1.13
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.89	-0.45	-6.01	-3.15	-10.95	2.24
	-23.66	-2.11	-18.03	-9.82	-32.86	5.61
	-39.43	-3.76	-30.04	-16.49	-54.77	8.98
	-55.21	-5.41	-42.06	-23.16	-76.67	12.35
	-70.98	-7.06	-54.08	-29.83	-98.58	15.71
	-86.75	-8.71	-66.09	-36.50	-120.49	19.08
	-102.53	-10.36	-78.11	-43.17	-142.39	22.45

	-118.30	-12.01	-90.13	-49.84	-164.30	25.82	
	0.83	7.89	3.34	6.01	-1.68	10.95	
0.75	0.84	7.90	3.34	6.02	-1.67	10.97	
	-118.45	-12.93	-90.27	-50.37	-164.50	24.52	
	-102.65	-11.26	-78.23	-43.68	-142.56	21.17	
	-86.86	-9.58	-66.20	-36.99	-120.63	17.82	
	-71.07	-7.91	-54.16	-30.30	-98.70	14.47	
	-55.27	-6.24	-42.13	-23.61	-76.76	11.13	
	-39.48	-4.57	-30.09	-16.92	-54.83	7.78	
	-23.69	-2.90	-18.05	-10.23	-32.90	4.43	
	-7.90	-1.23	-6.02	-3.54	-10.97	1.08	
	0.00	0.00	0.00	0.00	0.00	0.00	
	-7.90	-0.44	-6.02	-3.15	-10.97	2.27	
	-23.69	-2.11	-18.05	-9.84	-32.90	5.62	
	-39.48	-3.78	-30.09	-16.53	-54.83	8.97	
	-55.27	-5.45	-42.13	-23.22	-76.76	12.32	
	-71.07	-7.12	-54.16	-29.91	-98.70	15.67	
	-86.86	-8.79	-66.20	-36.60	-120.63	19.02	
	-102.65	-10.46	-78.23	-43.29	-142.56	22.37	
	-118.45	-12.13	-90.27	-49.98	-164.50	25.71	
		0.84	7.90	3.34	6.02	-1.67	10.97
	0.80	0.77	7.83	3.28	5.96	-1.74	10.88
-117.52		-12.02	-89.34	-49.46	-163.24	25.41	
-101.85		-10.48	-77.43	-42.89	-141.48	21.94	
-86.18		-8.93	-65.52	-36.33	-119.71	18.47	
-70.51		-7.38	-53.61	-29.76	-97.95	14.99	
-54.84		-5.84	-41.69	-23.19	-76.18	11.52	
-39.17		-4.29	-29.78	-16.63	-54.41	8.05	
-23.50		-2.74	-17.87	-10.06	-32.65	4.57	
-7.83		-1.20	-5.96	-3.50	-10.88	1.10	
0.00		0.00	0.00	0.00	0.00	0.00	
-7.83		-0.35	-5.96	-3.07	-10.88	2.37	
-23.50		-1.90	-17.87	-9.64	-32.65	5.85	
-39.17		-3.44	-29.78	-16.20	-54.41	9.32	
-54.84		-4.99	-41.69	-22.77	-76.18	12.79	
-70.51		-6.54	-53.61	-29.34	-97.95	16.26	
-86.18		-8.08	-65.52	-35.90	-119.71	19.74	
-101.85		-9.63	-77.43	-42.47	-141.48	23.21	
-117.52		-11.18	-89.34	-49.03	-163.24	26.68	
		0.77	7.83	3.28	5.96	-1.74	10.88
0.85		0.78	7.84	3.29	5.97	-1.73	10.90
	-117.66	-12.20	-89.49	-49.62	-163.44	25.23	
	-101.97	-10.63	-77.56	-43.03	-141.65	21.77	
	-86.29	-9.06	-65.62	-36.45	-119.85	18.32	
	-70.60	-7.50	-53.69	-29.86	-98.06	14.87	

	-54.91	-5.93	-41.76	-23.27	-76.27	11.41
	-39.22	-4.37	-29.83	-16.69	-54.48	7.96
	-23.53	-2.80	-17.90	-10.10	-32.69	4.50
	-7.84	-1.23	-5.97	-3.52	-10.90	1.05
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.84	-0.33	-5.97	-3.07	-10.90	2.40
	-23.53	-1.90	-17.90	-9.65	-32.69	5.86
	-39.22	-3.46	-29.83	-16.24	-54.48	9.31
	-54.91	-5.03	-41.76	-22.82	-76.27	12.76
	-70.60	-6.60	-53.69	-29.41	-98.06	16.22
	-86.29	-8.16	-65.62	-35.99	-119.85	19.67
	-101.97	-9.73	-77.56	-42.58	-141.65	23.12
	-117.66	-11.29	-89.49	-49.17	-163.44	26.58
	0.78	7.84	3.29	5.97	-1.73	10.90
0.90	0.72	7.78	3.23	5.90	-1.79	10.81
	-116.73	-11.28	-88.55	-48.69	-162.17	26.12
	-101.16	-9.84	-76.74	-42.23	-140.55	22.54
	-85.60	-8.40	-64.94	-35.77	-118.93	18.97
	-70.04	-6.96	-53.13	-29.31	-97.30	15.39
	-54.47	-5.52	-41.32	-22.85	-75.68	11.81
	-38.91	-4.08	-29.52	-16.39	-54.06	8.23
	-23.35	-2.64	-17.71	-9.93	-32.43	4.65
	-7.78	-1.20	-5.90	-3.47	-10.81	1.07
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.78	-0.24	-5.90	-2.99	-10.81	2.50
	-23.35	-1.68	-17.71	-9.45	-32.43	6.08
	-38.91	-3.13	-29.52	-15.91	-54.06	9.66
	-54.47	-4.57	-41.32	-22.37	-75.68	13.24
	-70.04	-6.01	-53.13	-28.83	-97.30	16.82
	-85.60	-7.45	-64.94	-35.29	-118.93	20.40
	-101.16	-8.89	-76.74	-41.76	-140.55	23.98
	-116.73	-10.33	-88.55	-48.22	-162.17	27.55
	0.72	7.78	3.23	5.90	-1.79	10.81
0.95	0.73	7.79	3.24	5.91	-1.78	10.82
	-116.87	-11.46	-88.70	-48.85	-162.37	25.94
	-101.29	-10.00	-76.87	-42.37	-140.72	22.38
	-85.71	-8.54	-65.04	-35.89	-119.07	18.82
	-70.12	-7.08	-53.22	-29.41	-97.42	15.26
	-54.54	-5.61	-41.39	-22.93	-75.77	11.70
	-38.96	-4.15	-29.57	-16.45	-54.12	8.14
	-23.37	-2.69	-17.74	-9.97	-32.47	4.58
	-7.79	-1.23	-5.91	-3.49	-10.82	1.02
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.79	-0.23	-5.91	-2.99	-10.82	2.53
	-23.37	-1.69	-17.74	-9.47	-32.47	6.09

	-38.96	-3.15	-29.57	-15.95	-54.12	9.65
	-54.54	-4.61	-41.39	-22.43	-75.77	13.21
	-70.12	-6.07	-53.22	-28.91	-97.42	16.77
	-85.71	-7.53	-65.04	-35.39	-119.07	20.33
	-101.29	-8.99	-76.87	-41.87	-140.72	23.89
	-116.87	-10.45	-88.70	-48.35	-162.37	27.45
	0.73	7.79	3.24	5.91	-1.78	10.82
1.00	0.74	7.80	3.25	5.92	-1.77	10.83
	-116.96	-11.57	-88.78	-48.95	-162.49	25.81
	-101.36	-10.10	-76.94	-42.46	-140.82	22.27
	-85.77	-8.62	-65.11	-35.97	-119.16	18.72
	-70.17	-7.15	-53.27	-29.48	-97.49	15.17
	-54.58	-5.68	-41.43	-22.98	-75.83	11.62
	-38.99	-4.21	-29.59	-16.49	-54.16	8.07
	-23.39	-2.74	-17.76	-10.00	-32.50	4.53
	-7.80	-1.27	-5.92	-3.51	-10.83	0.98
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.80	-0.21	-5.92	-2.98	-10.83	2.57
	-23.39	-1.68	-17.76	-9.47	-32.50	6.12
	-38.99	-3.15	-29.59	-15.96	-54.16	9.66
	-54.58	-4.62	-41.43	-22.45	-75.83	13.21
	-70.17	-6.09	-53.27	-28.95	-97.49	16.76
	-85.77	-7.56	-65.11	-35.44	-119.16	20.31
	-101.36	-9.04	-76.94	-41.93	-140.82	23.86
	-116.96	-10.51	-88.78	-48.42	-162.49	27.40
	0.74	7.80	3.25	5.92	-1.77	10.83
1.05	0.70	7.76	3.21	5.88	-1.81	10.79
	-116.43	-11.07	-88.26	-48.44	-161.78	26.30
	-100.91	-9.67	-76.49	-42.02	-140.21	22.68
	-85.38	-8.27	-64.72	-35.60	-118.64	19.06
	-69.86	-6.86	-52.95	-29.17	-97.07	15.44
	-54.33	-5.46	-41.19	-22.75	-75.50	11.83
	-38.81	-4.06	-29.42	-16.33	-53.93	8.21
	-23.29	-2.66	-17.65	-9.91	-32.36	4.59
	-7.76	-1.26	-5.88	-3.49	-10.79	0.97
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.76	-0.14	-5.88	-2.93	-10.79	2.64
	-23.29	-1.55	-17.65	-9.35	-32.36	6.26
	-38.81	-2.95	-29.42	-15.78	-53.93	9.88
	-54.33	-4.35	-41.19	-22.20	-75.50	13.50
	-69.86	-5.75	-52.95	-28.62	-97.07	17.11
	-85.38	-7.15	-64.72	-35.04	-118.64	20.73
	-100.91	-8.56	-76.49	-41.46	-140.21	24.35
	-116.43	-9.96	-88.26	-47.88	-161.78	27.97
	0.70	7.76	3.21	5.88	-1.81	10.79

1.10	0.71	7.77	3.22	5.89	-1.80	10.80
	-116.58	-11.25	-88.41	-48.60	-161.98	26.11
	-101.04	-9.83	-76.62	-42.16	-140.38	22.51
	-85.49	-8.40	-64.83	-35.72	-118.79	18.91
	-69.95	-6.98	-53.04	-29.28	-97.19	15.31
	-54.40	-5.56	-41.26	-22.84	-75.59	11.72
	-38.86	-4.14	-29.47	-16.40	-53.99	8.12
	-23.32	-2.72	-17.68	-9.95	-32.40	4.52
	-7.77	-1.29	-5.89	-3.51	-10.80	0.92
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.77	-0.13	-5.89	-2.93	-10.80	2.67
	-23.32	-1.55	-17.68	-9.37	-32.40	6.27
	-38.86	-2.97	-29.47	-15.81	-53.99	9.87
	-54.40	-4.39	-41.26	-22.25	-75.59	13.47
	-69.95	-5.82	-53.04	-28.69	-97.19	17.06
	-85.49	-7.24	-64.83	-35.14	-118.79	20.66
	-101.04	-8.66	-76.62	-41.58	-140.38	24.26
	-116.58	-10.08	-88.41	-48.02	-161.98	27.86
	0.71	7.77	3.22	5.89	-1.80	10.80
	1.15	0.72	7.78	3.23	5.90	-1.79
-116.73		-11.43	-88.56	-48.77	-162.19	25.92
-101.17		-9.98	-76.75	-42.31	-140.56	22.34
-85.61		-8.54	-64.94	-35.84	-118.94	18.76
-70.04		-7.10	-53.14	-29.38	-97.31	15.18
-54.48		-5.66	-41.33	-22.92	-75.69	11.61
-38.91		-4.21	-29.52	-16.46	-54.06	8.03
-23.35		-2.77	-17.71	-10.00	-32.44	4.45
-7.78		-1.33	-5.90	-3.54	-10.81	0.87
0.00		0.00	0.00	0.00	0.00	0.00
-7.78		-0.11	-5.90	-2.93	-10.81	2.70
-23.35		-1.55	-17.71	-9.39	-32.44	6.28
-38.91		-3.00	-29.52	-15.85	-54.06	9.86
-54.48		-4.44	-41.33	-22.31	-75.69	13.44
-70.04		-5.88	-53.14	-28.77	-97.31	17.01
-85.61		-7.32	-64.94	-35.23	-118.94	20.59
-101.17		-8.76	-76.75	-41.70	-140.56	24.17
-116.73		-10.21	-88.56	-48.16	-162.19	27.74
0.72		7.78	3.23	5.90	-1.79	10.81
1.20		0.72	7.78	3.23	5.91	-1.79
	-116.77	-11.48	-88.59	-48.81	-162.23	25.85
	-101.20	-10.04	-76.78	-42.35	-140.60	22.27
	-85.63	-8.59	-64.97	-35.88	-118.97	18.70
	-70.06	-7.14	-53.15	-29.41	-97.34	15.13
	-54.49	-5.70	-41.34	-22.95	-75.71	11.55
	-38.92	-4.25	-29.53	-16.48	-54.08	7.98

	-23.35	-2.81	-17.72	-10.02	-32.45	4.41
	-7.78	-1.36	-5.91	-3.55	-10.82	0.83
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.78	-0.09	-5.91	-2.91	-10.82	2.74
	-23.35	-1.53	-17.72	-9.38	-32.45	6.31
	-38.92	-2.98	-29.53	-15.85	-54.08	9.89
	-54.49	-4.43	-41.34	-22.31	-75.71	13.46
	-70.06	-5.87	-53.15	-28.78	-97.34	17.03
	-85.63	-7.32	-64.97	-35.24	-118.97	20.61
	-101.20	-8.77	-76.78	-41.71	-140.60	24.18
	-116.77	-10.21	-88.59	-48.18	-162.23	27.75
	0.72	7.78	3.23	5.91	-1.79	10.82
	0.73	7.79	3.24	5.92	-1.78	10.83
1.25	-116.92	-11.67	-88.75	-48.98	-162.44	25.65
	-101.33	-10.20	-76.91	-42.49	-140.78	22.10
	-85.74	-8.73	-65.08	-36.01	-119.12	18.55
	-70.15	-7.26	-53.25	-29.52	-97.46	14.99
	-54.56	-5.80	-41.41	-23.03	-75.80	11.44
	-38.97	-4.33	-29.58	-16.55	-54.15	7.89
	-23.38	-2.86	-17.75	-10.06	-32.49	4.34
	-7.79	-1.40	-5.92	-3.57	-10.83	0.78
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.79	-0.07	-5.92	-2.91	-10.83	2.77
	-23.38	-1.54	-17.75	-9.40	-32.49	6.32
	-38.97	-3.01	-29.58	-15.89	-54.15	9.88
	-54.56	-4.47	-41.41	-22.37	-75.80	13.43
	-70.15	-5.94	-53.25	-28.86	-97.46	16.98
	-85.74	-7.41	-65.08	-35.34	-119.12	20.53
	-101.33	-8.87	-76.91	-41.83	-140.78	24.09
	-116.92	-10.34	-88.75	-48.32	-162.44	27.64
	0.73	7.79	3.24	5.92	-1.78	10.83
1.30	0.70	7.76	3.21	5.89	-1.81	10.79
	-116.46	-11.24	-88.29	-48.54	-161.82	26.07
	-100.94	-9.83	-76.52	-42.11	-140.25	22.45
	-85.41	-8.42	-64.75	-35.69	-118.67	18.84
	-69.88	-7.02	-52.97	-29.26	-97.09	15.23
	-54.35	-5.61	-41.20	-22.83	-75.52	11.61
	-38.82	-4.20	-29.43	-16.41	-53.94	8.00
	-23.29	-2.80	-17.66	-9.98	-32.36	4.39
	-7.76	-1.39	-5.89	-3.56	-10.79	0.77
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.76	-0.01	-5.89	-2.87	-10.79	2.84
	-23.29	-1.42	-17.66	-9.29	-32.36	6.45
	-38.82	-2.83	-29.43	-15.72	-53.94	10.07
	-54.35	-4.23	-41.20	-22.15	-75.52	13.68

	-69.88	-5.64	-52.97	-28.57	-97.09	17.29
	-85.41	-7.05	-64.75	-35.00	-118.67	20.91
	-100.94	-8.45	-76.52	-41.42	-140.25	24.52
	-116.46	-9.86	-88.29	-47.85	-161.82	28.13
	0.70	7.76	3.21	5.89	-1.81	10.79
1.35	0.71	7.77	3.22	5.90	-1.80	10.80
	-116.62	-11.42	-88.45	-48.71	-162.03	25.87
	-101.07	-9.99	-76.65	-42.26	-140.43	22.28
	-85.52	-8.57	-64.86	-35.82	-118.83	18.68
	-69.97	-7.14	-53.07	-29.37	-97.22	15.09
	-54.42	-5.71	-41.28	-22.92	-75.62	11.50
	-38.87	-4.28	-29.48	-16.47	-54.01	7.91
	-23.32	-2.86	-17.69	-10.03	-32.41	4.32
	-7.77	-1.43	-5.90	-3.58	-10.80	0.72
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.77	0.00	-5.90	-2.87	-10.80	2.87
	-23.32	-1.43	-17.69	-9.31	-32.41	6.46
	-38.87	-2.85	-29.48	-15.76	-54.01	10.05
	-54.42	-4.28	-41.28	-22.21	-75.62	13.65
	-69.97	-5.71	-53.07	-28.65	-97.22	17.24
	-85.52	-7.13	-64.86	-35.10	-118.83	20.83
	-101.07	-8.56	-76.65	-41.55	-140.43	24.42
	-116.62	-9.99	-88.45	-47.99	-162.03	28.01
	0.71	7.77	3.22	5.90	-1.80	10.80
	1.40	0.72	7.79	3.23	5.91	-1.79
-116.78		-11.61	-88.61	-48.88	-162.25	25.67
-101.21		-10.16	-76.79	-42.41	-140.62	22.10
-85.64		-8.71	-64.98	-35.95	-118.98	18.53
-70.07		-7.26	-53.16	-29.48	-97.35	14.96
-54.50		-5.81	-41.35	-23.01	-75.72	11.39
-38.93		-4.36	-29.54	-16.54	-54.08	7.81
-23.36		-2.91	-17.72	-10.07	-32.45	4.24
-7.79		-1.47	-5.91	-3.61	-10.82	0.67
0.00		0.00	0.00	0.00	0.00	0.00
-7.79		0.02	-5.91	-2.86	-10.82	2.90
-23.36		-1.43	-17.72	-9.33	-32.45	6.47
-38.93		-2.88	-29.54	-15.80	-54.08	10.04
-54.50		-4.33	-41.35	-22.27	-75.72	13.61
-70.07		-5.78	-53.16	-28.74	-97.35	17.18
-85.64		-7.23	-64.98	-35.20	-118.98	20.75
-101.21		-8.67	-76.79	-41.67	-140.62	24.32
-116.78		-10.12	-88.61	-48.14	-162.25	27.90
0.72		7.79	3.23	5.91	-1.79	10.82
1.45		0.73	7.80	3.24	5.92	-1.77
	-116.94	-11.79	-88.77	-49.06	-162.47	25.47

	-101.35	-10.32	-76.93	-42.57	-140.80	21.92
	-85.76	-8.85	-65.10	-36.08	-119.14	18.37
	-70.17	-7.38	-53.26	-29.59	-97.48	14.82
	-54.57	-5.91	-41.42	-23.10	-75.82	11.27
	-38.98	-4.44	-29.59	-16.61	-54.16	7.72
	-23.39	-2.97	-17.75	-10.12	-32.49	4.17
	-7.80	-1.50	-5.92	-3.63	-10.83	0.62
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.80	0.03	-5.92	-2.86	-10.83	2.93
	-23.39	-1.44	-17.75	-9.35	-32.49	6.48
	-38.98	-2.91	-29.59	-15.84	-54.16	10.03
	-54.57	-4.38	-41.42	-22.33	-75.82	13.58
	-70.17	-5.85	-53.26	-28.82	-97.48	17.13
	-85.76	-7.32	-65.10	-35.31	-119.14	20.68
	-101.35	-8.79	-76.93	-41.80	-140.80	24.22
	-116.94	-10.26	-88.77	-48.29	-162.47	27.77
	0.73	7.80	3.24	5.92	-1.77	10.83
	0.75	7.81	3.26	5.93	-1.76	10.85
	-117.10	-11.98	-88.93	-49.23	-162.68	25.27
	-101.49	-10.49	-77.07	-42.72	-140.99	21.74
	-85.88	-9.00	-65.21	-36.21	-119.30	18.21
	-70.26	-7.51	-53.36	-29.70	-97.61	14.68
	-54.65	-6.02	-41.50	-23.19	-75.92	11.16
	-39.03	-4.52	-29.64	-16.68	-54.23	7.63
	-23.42	-3.03	-17.79	-10.16	-32.54	4.10
	-7.81	-1.54	-5.93	-3.65	-10.85	0.57
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.81	0.05	-5.93	-2.86	-10.85	2.96
	-23.42	-1.44	-17.79	-9.37	-32.54	6.48
	-39.03	-2.93	-29.64	-15.88	-54.23	10.01
	-54.65	-4.43	-41.50	-22.39	-75.92	13.54
	-70.26	-5.92	-53.36	-28.90	-97.61	17.07
	-85.88	-7.41	-65.21	-35.41	-119.30	20.60
	-101.49	-8.90	-77.07	-41.92	-140.99	24.12
	-117.10	-10.39	-88.93	-48.44	-162.68	27.65
	0.75	7.81	3.26	5.93	-1.76	10.85
	0.76	7.82	3.27	5.94	-1.75	10.86
	-117.27	-12.17	-89.09	-49.41	-162.90	25.06
	-101.63	-10.66	-77.21	-42.87	-141.18	21.56
	-86.00	-9.14	-65.33	-36.34	-119.46	18.05
	-70.36	-7.63	-53.46	-29.81	-97.74	14.55
	-54.72	-6.12	-41.58	-23.28	-76.02	11.04
	-39.09	-4.60	-29.70	-16.74	-54.30	7.53
	-23.45	-3.09	-17.82	-10.21	-32.58	4.03
	-7.82	-1.58	-5.94	-3.68	-10.86	0.52

	0.00	0.00	0.00	0.00	0.00	0.00
	-7.82	0.06	-5.94	-2.86	-10.86	2.99
	-23.45	-1.45	-17.82	-9.39	-32.58	6.49
	-39.09	-2.96	-29.70	-15.92	-54.30	10.00
	-54.72	-4.47	-41.58	-22.45	-76.02	13.50
	-70.36	-5.99	-53.46	-28.99	-97.74	17.01
	-86.00	-7.50	-65.33	-35.52	-119.46	20.52
	-101.63	-9.01	-77.21	-42.05	-141.18	24.02
	-117.27	-10.53	-89.09	-48.59	-162.90	27.53
	0.76	7.82	3.27	5.94	-1.75	10.86
1.60	0.77	7.83	3.28	5.95	-1.74	10.88
	-117.43	-12.36	-89.26	-49.58	-163.13	24.86
	-101.77	-10.83	-77.36	-43.03	-141.38	21.38
	-86.12	-9.29	-65.45	-36.47	-119.63	17.89
	-70.46	-7.76	-53.55	-29.92	-97.88	14.41
	-54.80	-6.22	-41.65	-23.37	-76.13	10.92
	-39.14	-4.69	-29.75	-16.81	-54.38	7.44
	-23.49	-3.15	-17.85	-10.26	-32.63	3.95
	-7.83	-1.62	-5.95	-3.70	-10.88	0.47
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.83	0.08	-5.95	-2.85	-10.88	3.01
	-23.49	-1.45	-17.85	-9.41	-32.63	6.50
	-39.14	-2.99	-29.75	-15.96	-54.38	9.98
	-54.80	-4.52	-41.65	-22.52	-76.13	13.47
	-70.46	-6.06	-53.55	-29.07	-97.88	16.95
	-86.12	-7.60	-65.45	-35.63	-119.63	20.44
	-101.77	-9.13	-77.36	-42.18	-141.38	23.92
	-117.43	-10.67	-89.26	-48.74	-163.13	27.41
	0.77	7.83	3.28	5.95	-1.74	10.88
1.65	0.78	7.84	3.29	5.96	-1.73	10.89
	-117.60	-12.55	-89.42	-49.76	-163.35	24.66
	-101.92	-11.00	-77.50	-43.19	-141.57	21.19
	-86.24	-9.44	-65.58	-36.61	-119.79	17.73
	-70.56	-7.88	-53.65	-30.03	-98.01	14.27
	-54.88	-6.32	-41.73	-23.46	-76.23	10.81
	-39.20	-4.77	-29.81	-16.88	-54.45	7.34
	-23.52	-3.21	-17.88	-10.30	-32.67	3.88
	-7.84	-1.65	-5.96	-3.73	-10.89	0.42
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.84	0.10	-5.96	-2.85	-10.89	3.04
	-23.52	-1.46	-17.88	-9.43	-32.67	6.51
	-39.20	-3.02	-29.81	-16.00	-54.45	9.97
	-54.88	-4.58	-41.73	-22.58	-76.23	13.43
	-70.56	-6.13	-53.65	-29.16	-98.01	16.89
	-86.24	-7.69	-65.58	-35.73	-119.79	20.35

	-101.92	-9.25	-77.50	-42.31	-141.57	23.82	
	-117.60	-10.80	-89.42	-48.89	-163.35	27.28	
	0.78	7.84	3.29	5.96	-1.73	10.89	
1.70	0.79	7.85	3.30	5.97	-1.72	10.90	
	-117.76	-12.75	-89.59	-49.94	-163.57	24.45	
	-102.06	-11.17	-77.64	-43.34	-141.76	21.01	
	-86.36	-9.59	-65.70	-36.74	-119.95	17.57	
	-70.66	-8.01	-53.75	-30.15	-98.14	14.13	
	-54.96	-6.43	-41.81	-23.55	-76.33	10.69	
	-39.25	-4.85	-29.86	-16.95	-54.52	7.25	
	-23.55	-3.27	-17.92	-10.35	-32.71	3.81	
	-7.85	-1.69	-5.97	-3.75	-10.90	0.37	
	0.00	0.00	0.00	0.00	0.00	0.00	
	-7.85	0.11	-5.97	-2.85	-10.90	3.07	
	-23.55	-1.47	-17.92	-9.45	-32.71	6.51	
	-39.25	-3.05	-29.86	-16.05	-54.52	9.95	
	-54.96	-4.63	-41.81	-22.65	-76.33	13.39	
	-70.66	-6.21	-53.75	-29.24	-98.14	16.83	
	-86.36	-7.79	-65.70	-35.84	-119.95	20.27	
	-102.06	-9.36	-77.64	-42.44	-141.76	23.71	
	-117.76	-10.94	-89.59	-49.04	-163.57	27.15	
		0.79	7.85	3.30	5.97	-1.72	10.90
	1.75	0.80	7.86	3.31	5.98	-1.71	10.92
-117.93		-12.94	-89.75	-50.12	-163.80	24.24	
-102.21		-11.34	-77.79	-43.50	-141.96	20.83	
-86.48		-9.74	-65.82	-36.88	-120.12	17.41	
-70.76		-8.13	-53.85	-30.26	-98.28	13.99	
-55.03		-6.53	-41.89	-23.64	-76.44	10.57	
-39.31		-4.93	-29.92	-17.02	-54.60	7.15	
-23.59		-3.33	-17.95	-10.40	-32.76	3.74	
-7.86		-1.73	-5.98	-3.77	-10.92	0.32	
0.00		0.00	0.00	0.00	0.00	0.00	
-7.86		0.13	-5.98	-2.85	-10.92	3.10	
-23.59		-1.47	-17.95	-9.47	-32.76	6.52	
-39.31		-3.08	-29.92	-16.09	-54.60	9.94	
-55.03		-4.68	-41.89	-22.71	-76.44	13.35	
-70.76		-6.28	-53.85	-29.33	-98.28	16.77	
-86.48		-7.88	-65.82	-35.95	-120.12	20.19	
-102.21		-9.48	-77.79	-42.57	-141.96	23.61	
-117.93		-11.08	-89.75	-49.19	-163.80	27.03	
		0.80	7.86	3.31	5.98	-1.71	10.92
1.80		0.81	7.87	3.32	5.99	-1.70	10.94
	-118.10	-13.13	-89.92	-50.30	-164.03	24.04	
	-102.35	-11.51	-77.93	-43.66	-142.16	20.64	
	-86.60	-9.89	-65.94	-37.02	-120.29	17.24	

	-70.86	-8.26	-53.95	-30.37	-98.42	13.85
	-55.11	-6.64	-41.96	-23.73	-76.55	10.45
	-39.37	-5.01	-29.97	-17.09	-54.68	7.06
	-23.62	-3.39	-17.98	-10.44	-32.81	3.66
	-7.87	-1.77	-5.99	-3.80	-10.94	0.27
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.87	0.14	-5.99	-2.84	-10.94	3.13
	-23.62	-1.48	-17.98	-9.49	-32.81	6.52
	-39.37	-3.11	-29.97	-16.13	-54.68	9.92
	-55.11	-4.73	-41.96	-22.78	-76.55	13.32
	-70.86	-6.35	-53.95	-29.42	-98.42	16.71
	-86.60	-7.98	-65.94	-36.06	-120.29	20.11
	-102.35	-9.60	-77.93	-42.71	-142.16	23.50
	-118.10	-11.23	-89.92	-49.35	-164.03	26.90
	0.81	7.87	3.32	5.99	-1.70	10.94
	0.82	7.88	3.33	6.01	-1.69	10.95
1.85	-118.27	-13.33	-90.09	-50.49	-164.25	23.83
	-102.50	-11.68	-78.08	-43.82	-142.35	20.45
	-86.73	-10.04	-66.07	-37.15	-120.45	17.08
	-70.96	-8.39	-54.05	-30.49	-98.55	13.71
	-55.19	-6.74	-42.04	-23.82	-76.65	10.34
	-39.42	-5.10	-30.03	-17.16	-54.75	6.96
	-23.65	-3.45	-18.02	-10.49	-32.85	3.59
	-7.88	-1.80	-6.01	-3.82	-10.95	0.22
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.88	0.16	-6.01	-2.84	-10.95	3.16
	-23.65	-1.49	-18.02	-9.51	-32.85	6.53
	-39.42	-3.14	-30.03	-16.17	-54.75	9.90
	-55.19	-4.78	-42.04	-22.84	-76.65	13.28
	-70.96	-6.43	-54.05	-29.51	-98.55	16.65
	-86.73	-8.08	-66.07	-36.17	-120.45	20.02
	-102.50	-9.72	-78.08	-42.84	-142.35	23.40
	-118.27	-11.37	-90.09	-49.50	-164.25	26.77
	0.82	7.88	3.33	6.01	-1.69	10.95
	0.83	7.90	3.34	6.02	-1.68	10.97
1.90	-118.44	-13.53	-90.26	-50.67	-164.48	23.62
	-102.64	-11.86	-78.23	-43.98	-142.55	20.27
	-86.85	-10.19	-66.19	-37.29	-120.62	16.92
	-71.06	-8.52	-54.16	-30.60	-98.69	13.57
	-55.27	-6.85	-42.12	-23.91	-76.76	10.22
	-39.48	-5.18	-30.09	-17.23	-54.83	6.87
	-23.69	-3.51	-18.05	-10.54	-32.90	3.52
	-7.90	-1.84	-6.02	-3.85	-10.97	0.16
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.90	0.17	-6.02	-2.84	-10.97	3.19

	-23.69	-1.50	-18.05	-9.53	-32.90	6.54
	-39.48	-3.17	-30.09	-16.22	-54.83	9.89
	-55.27	-4.83	-42.12	-22.91	-76.76	13.24
	-71.06	-6.50	-54.16	-29.60	-98.69	16.59
	-86.85	-8.17	-66.19	-36.28	-120.62	19.94
	-102.64	-9.84	-78.23	-42.97	-142.55	23.29
	-118.44	-11.51	-90.26	-49.66	-164.48	26.64
	0.83	7.90	3.34	6.02	-1.68	10.97
1.95	0.85	7.91	3.36	6.03	-1.66	10.98
	-118.61	-13.72	-90.43	-50.85	-164.71	23.41
	-102.79	-12.03	-78.37	-44.14	-142.75	20.08
	-86.98	-10.34	-66.32	-37.43	-120.79	16.75
	-71.16	-8.65	-54.26	-30.72	-98.83	13.42
	-55.35	-6.95	-42.20	-24.01	-76.87	10.10
	-39.54	-5.26	-30.14	-17.30	-54.90	6.77
	-23.72	-3.57	-18.09	-10.58	-32.94	3.44
	-7.91	-1.88	-6.03	-3.87	-10.98	0.11
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.91	0.19	-6.03	-2.84	-10.98	3.21
	-23.72	-1.50	-18.09	-9.55	-32.94	6.54
	-39.54	-3.20	-30.14	-16.26	-54.90	9.87
	-55.35	-4.89	-42.20	-22.97	-76.87	13.20
	-71.16	-6.58	-54.26	-29.68	-98.83	16.53
	-86.98	-8.27	-66.32	-36.40	-120.79	19.85
	-102.79	-9.96	-78.37	-43.11	-142.75	23.18
	-118.61	-11.66	-90.43	-49.82	-164.71	26.51
	0.85	7.91	3.36	6.03	-1.66	10.98
2.00	0.89	7.95	3.40	6.07	-1.62	11.04
	-119.26	-14.40	-91.09	-51.52	-165.60	22.71
	-103.36	-12.62	-78.94	-44.72	-143.52	19.47
	-87.46	-10.85	-66.80	-37.92	-121.44	16.23
	-71.56	-9.07	-54.65	-31.12	-99.36	12.99
	-55.66	-7.29	-42.51	-24.33	-77.28	9.75
	-39.75	-5.51	-30.36	-17.53	-55.20	6.51
	-23.85	-3.73	-18.22	-10.73	-33.12	3.27
	-7.95	-1.95	-6.07	-3.93	-11.04	0.03
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.95	0.17	-6.07	-2.87	-11.04	3.21
	-23.85	-1.61	-18.22	-9.67	-33.12	6.45
	-39.75	-3.39	-30.36	-16.47	-55.20	9.69
	-55.66	-5.17	-42.51	-23.27	-77.28	12.93
	-71.56	-6.95	-54.65	-30.06	-99.36	16.17
	-87.46	-8.73	-66.80	-36.86	-121.44	19.41
	-103.36	-10.50	-78.94	-43.66	-143.52	22.65
	-119.26	-12.28	-91.09	-50.46	-165.60	25.89

	0.89	7.95	3.40	6.07	-1.62	11.04
2.05	0.90	7.96	3.41	6.08	-1.61	11.06
	-119.44	-14.61	-91.27	-51.71	-165.84	22.49
	-103.52	-12.81	-79.10	-44.89	-143.73	19.28
	-87.59	-11.00	-66.93	-38.07	-121.62	16.06
	-71.66	-9.20	-54.76	-31.25	-99.50	12.84
	-55.74	-7.40	-42.59	-24.42	-77.39	9.63
	-39.81	-5.59	-30.42	-17.60	-55.28	6.41
	-23.89	-3.79	-18.25	-10.78	-33.17	3.19
	-7.96	-1.99	-6.08	-3.95	-11.06	-0.02
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.96	0.18	-6.08	-2.87	-11.06	3.24
	-23.89	-1.62	-18.25	-9.69	-33.17	6.45
	-39.81	-3.42	-30.42	-16.51	-55.28	9.67
	-55.74	-5.22	-42.59	-23.34	-77.39	12.89
	-71.66	-7.03	-54.76	-30.16	-99.50	16.10
	-87.59	-8.83	-66.93	-36.98	-121.62	19.32
	-103.52	-10.63	-79.10	-43.80	-143.73	22.54
	-119.44	-12.44	-91.27	-50.63	-165.84	25.75
	0.90	7.96	3.41	6.08	-1.61	11.06
2.10	0.91	7.97	3.42	6.10	-1.60	11.07
	-119.62	-14.82	-91.45	-51.91	-166.08	22.27
	-103.67	-12.99	-79.25	-45.06	-143.94	19.08
	-87.72	-11.16	-67.06	-38.21	-121.79	15.89
	-71.77	-9.33	-54.87	-31.37	-99.65	12.70
	-55.82	-7.51	-42.67	-24.52	-77.51	9.50
	-39.87	-5.68	-30.48	-17.67	-55.36	6.31
	-23.92	-3.85	-18.29	-10.83	-33.22	3.12
	-7.97	-2.03	-6.10	-3.98	-11.07	-0.07
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.97	0.20	-6.10	-2.87	-11.07	3.27
	-23.92	-1.63	-18.29	-9.71	-33.22	6.46
	-39.87	-3.45	-30.48	-16.56	-55.36	9.65
	-55.82	-5.28	-42.67	-23.41	-77.51	12.84
	-71.77	-7.11	-54.87	-30.25	-99.65	16.04
	-87.72	-8.94	-67.06	-37.10	-121.79	19.23
	-103.67	-10.76	-79.25	-43.95	-143.94	22.42
	-119.62	-12.59	-91.45	-50.79	-166.08	25.61
	0.91	7.97	3.42	6.10	-1.60	11.07
2.15	0.93	7.99	3.44	6.11	-1.58	11.09
	-119.80	-15.02	-91.63	-52.10	-166.33	22.05
	-103.83	-13.17	-79.41	-45.23	-144.15	18.89
	-87.85	-11.32	-67.19	-38.36	-121.97	15.72
	-71.88	-9.47	-54.98	-31.49	-99.80	12.55
	-55.91	-7.62	-42.76	-24.62	-77.62	9.38

	-39.93	-5.77	-30.54	-17.75	-55.44	6.21
	-23.96	-3.92	-18.33	-10.88	-33.27	3.04
	-7.99	-2.07	-6.11	-4.01	-11.09	-0.13
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.99	0.21	-6.11	-2.87	-11.09	3.29
	-23.96	-1.64	-18.33	-9.74	-33.27	6.46
	-39.93	-3.49	-30.54	-16.61	-55.44	9.63
	-55.91	-5.34	-42.76	-23.48	-77.62	12.80
	-71.88	-7.19	-54.98	-30.35	-99.80	15.97
	-87.85	-9.04	-67.19	-37.22	-121.97	19.14
	-103.83	-10.89	-79.41	-44.09	-144.15	22.30
	-119.80	-12.74	-91.63	-50.96	-166.33	25.47
	0.93	7.99	3.44	6.11	-1.58	11.09
2.20	0.94	8.00	3.45	6.12	-1.57	11.10
	-119.98	-15.23	-91.81	-52.29	-166.57	21.83
	-103.99	-13.36	-79.57	-45.40	-144.36	18.69
	-87.99	-11.48	-67.33	-38.50	-122.15	15.54
	-71.99	-9.61	-55.08	-31.61	-99.94	12.40
	-55.99	-7.73	-42.84	-24.72	-77.73	9.26
	-39.99	-5.85	-30.60	-17.82	-55.52	6.11
	-24.00	-3.98	-18.36	-10.93	-33.31	2.97
	-8.00	-2.10	-6.12	-4.03	-11.10	-0.18
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.00	0.23	-6.12	-2.86	-11.10	3.32
	-24.00	-1.65	-18.36	-9.76	-33.31	6.47
	-39.99	-3.52	-30.60	-16.65	-55.52	9.61
	-55.99	-5.40	-42.84	-23.55	-77.73	12.75
	-71.99	-7.27	-55.08	-30.44	-99.94	15.90
	-87.99	-9.15	-67.33	-37.34	-122.15	19.04
	-103.99	-11.02	-79.57	-44.23	-144.36	22.19
	-119.98	-12.90	-91.81	-51.13	-166.57	25.33
	0.94	8.00	3.45	6.12	-1.57	11.10
2.25	0.95	8.01	3.46	6.13	-1.56	11.12
	-120.17	-15.44	-91.99	-52.49	-166.82	21.61
	-104.14	-13.54	-79.72	-45.57	-144.57	18.49
	-88.12	-11.64	-67.46	-38.65	-122.33	15.37
	-72.10	-9.74	-55.19	-31.73	-100.09	12.25
	-56.08	-7.84	-42.93	-24.81	-77.85	9.13
	-40.06	-5.94	-30.66	-17.89	-55.61	6.01
	-24.03	-4.04	-18.40	-10.98	-33.36	2.89
	-8.01	-2.14	-6.13	-4.06	-11.12	-0.23
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.01	0.24	-6.13	-2.86	-11.12	3.35
	-24.03	-1.66	-18.40	-9.78	-33.36	6.47
	-40.06	-3.56	-30.66	-16.70	-55.61	9.59

	-56.08	-5.46	-42.93	-23.62	-77.85	12.71
	-72.10	-7.36	-55.19	-30.54	-100.09	15.83
	-88.12	-9.26	-67.46	-37.46	-122.33	18.95
	-104.14	-11.16	-79.72	-44.38	-144.57	22.07
	-120.17	-13.05	-91.99	-51.30	-166.82	25.19
	0.95	8.01	3.46	6.13	-1.56	11.12
2.30	1.00	8.06	3.51	6.18	-1.51	11.19
	-120.88	-16.18	-92.70	-53.21	-167.78	20.86
	-104.76	-14.18	-80.34	-46.20	-145.41	17.83
	-88.64	-12.19	-67.98	-39.19	-123.04	14.81
	-72.53	-10.19	-55.62	-32.17	-100.67	11.78
	-56.41	-8.20	-43.26	-25.16	-78.30	8.76
	-40.29	-6.21	-30.90	-18.14	-55.93	5.73
	-24.18	-4.21	-18.54	-11.13	-33.56	2.71
	-8.06	-2.22	-6.18	-4.12	-11.19	-0.32
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.06	0.22	-6.18	-2.90	-11.19	3.34
	-24.18	-1.77	-18.54	-9.91	-33.56	6.37
	-40.29	-3.77	-30.90	-16.93	-55.93	9.39
	-56.41	-5.76	-43.26	-23.94	-78.30	12.42
	-72.53	-7.76	-55.62	-30.95	-100.67	15.44
	-88.64	-9.75	-67.98	-37.97	-123.04	18.47
	-104.76	-11.75	-80.34	-44.98	-145.41	21.49
	-120.88	-13.74	-92.70	-52.00	-167.78	24.52
	1.00	8.06	3.51	6.18	-1.51	11.19
2.35	1.01	8.07	3.52	6.19	-1.50	11.20
	-121.07	-16.40	-92.89	-53.42	-168.04	20.63
	-104.93	-14.38	-80.51	-46.38	-145.63	17.63
	-88.78	-12.36	-68.12	-39.34	-123.23	14.63
	-72.64	-10.34	-55.74	-32.30	-100.82	11.63
	-56.50	-8.32	-43.35	-25.26	-78.42	8.63
	-40.36	-6.30	-30.96	-18.22	-56.01	5.63
	-24.21	-4.28	-18.58	-11.18	-33.61	2.63
	-8.07	-2.26	-6.19	-4.14	-11.20	-0.37
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.07	0.24	-6.19	-2.90	-11.20	3.37
	-24.21	-1.78	-18.58	-9.94	-33.61	6.37
	-40.36	-3.80	-30.96	-16.98	-56.01	9.37
	-56.50	-5.82	-43.35	-24.02	-78.42	12.37
	-72.64	-7.84	-55.74	-31.06	-100.82	15.37
	-88.78	-9.86	-68.12	-38.09	-123.23	18.37
	-104.93	-11.88	-80.51	-45.13	-145.63	21.37
	-121.07	-13.90	-92.89	-52.17	-168.04	24.36
	1.01	8.07	3.52	6.19	-1.50	11.20
2.40	1.02	8.08	3.53	6.21	-1.49	11.22

	-121.26	-16.61	-93.08	-53.62	-168.29	20.40
	-105.09	-14.57	-80.67	-46.56	-145.86	17.42
	-88.92	-12.52	-68.26	-39.49	-123.42	14.45
	-72.76	-10.48	-55.85	-32.43	-100.98	11.47
	-56.59	-8.43	-43.44	-25.36	-78.54	8.50
	-40.42	-6.39	-31.03	-18.30	-56.10	5.53
	-24.25	-4.34	-18.62	-11.23	-33.66	2.55
	-8.08	-2.29	-6.21	-4.17	-11.22	-0.42
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.08	0.25	-6.21	-2.90	-11.22	3.39
	-24.25	-1.80	-18.62	-9.96	-33.66	6.37
	-40.42	-3.84	-31.03	-17.03	-56.10	9.34
	-56.59	-5.89	-43.44	-24.09	-78.54	12.32
	-72.76	-7.93	-55.85	-31.16	-100.98	15.29
	-88.92	-9.98	-68.26	-38.22	-123.42	18.26
	-105.09	-12.02	-80.67	-45.29	-145.86	21.24
	-121.26	-14.07	-93.08	-52.35	-168.29	24.21
	1.02	8.08	3.53	6.21	-1.49	11.22
	1.04	8.10	3.55	6.22	-1.47	11.24
2.45	-121.45	-16.83	-93.28	-53.83	-168.55	20.16
	-105.26	-14.76	-80.84	-46.74	-146.08	17.22
	-89.06	-12.69	-68.40	-39.65	-123.61	14.27
	-72.87	-10.62	-55.97	-32.56	-101.13	11.32
	-56.68	-8.55	-43.53	-25.47	-78.66	8.37
	-40.48	-6.48	-31.09	-18.38	-56.18	5.42
	-24.29	-4.41	-18.66	-11.29	-33.71	2.47
	-8.10	-2.33	-6.22	-4.19	-11.24	-0.47
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.10	0.26	-6.22	-2.90	-11.24	3.42
	-24.29	-1.81	-18.66	-9.99	-33.71	6.37
	-40.48	-3.88	-31.09	-17.08	-56.18	9.32
	-56.68	-5.95	-43.53	-24.17	-78.66	12.27
	-72.87	-8.02	-55.97	-31.26	-101.13	15.22
	-89.06	-10.09	-68.40	-38.35	-123.61	18.16
	-105.26	-12.16	-80.84	-45.44	-146.08	21.11
	-121.45	-14.24	-93.28	-52.53	-168.55	24.06
	1.04	8.10	3.55	6.22	-1.47	11.24
	1.05	8.11	3.56	6.23	-1.46	11.25
2.50	-121.64	-17.05	-93.47	-54.04	-168.81	19.93
	-105.43	-14.95	-81.01	-46.92	-146.31	17.01
	-89.21	-12.86	-68.54	-39.80	-123.80	14.09
	-72.99	-10.76	-56.08	-32.69	-101.29	11.16
	-56.77	-8.66	-43.62	-25.57	-78.78	8.24
	-40.55	-6.57	-31.16	-18.45	-56.27	5.32
	-24.33	-4.47	-18.69	-11.34	-33.76	2.40

	-8.11	-2.37	-6.23	-4.22	-11.25	-0.53
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.11	0.28	-6.23	-2.90	-11.25	3.45
	-24.33	-1.82	-18.69	-10.01	-33.76	6.37
	-40.55	-3.92	-31.16	-17.13	-56.27	9.29
	-56.77	-6.01	-43.62	-24.25	-78.78	12.22
	-72.99	-8.11	-56.08	-31.36	-101.29	15.14
	-89.21	-10.21	-68.54	-38.48	-123.80	18.06
	-105.43	-12.30	-81.01	-45.59	-146.31	20.98
	-121.64	-14.40	-93.47	-52.71	-168.81	23.91
	1.05	8.11	3.56	6.23	-1.46	11.25
2.55	1.07	8.13	3.57	6.25	-1.44	11.28
	-121.89	-17.33	-93.72	-54.30	-169.15	19.64
	-105.64	-15.20	-81.22	-47.15	-146.60	16.75
	-89.39	-13.07	-68.73	-40.00	-124.04	13.86
	-73.14	-10.94	-56.23	-32.85	-101.49	10.97
	-56.88	-8.81	-43.74	-25.70	-78.94	8.09
	-40.63	-6.68	-31.24	-18.55	-56.38	5.20
	-24.38	-4.55	-18.74	-11.40	-33.83	2.31
	-8.13	-2.42	-6.25	-4.25	-11.28	-0.58
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.13	0.29	-6.25	-2.90	-11.28	3.47
	-24.38	-1.84	-18.74	-10.05	-33.83	6.36
	-40.63	-3.97	-31.24	-17.20	-56.38	9.25
	-56.88	-6.10	-43.74	-24.35	-78.94	12.14
	-73.14	-8.23	-56.23	-31.50	-101.49	15.03
	-89.39	-10.36	-68.73	-38.65	-124.04	17.92
	-105.64	-12.50	-81.22	-45.80	-146.60	20.81
	-121.89	-14.63	-93.72	-52.95	-169.15	23.70
	1.07	8.13	3.57	6.25	-1.44	11.28
2.60	1.08	8.14	3.59	6.26	-1.43	11.29
	-122.09	-17.55	-93.91	-54.51	-169.41	19.41
	-105.81	-15.39	-81.39	-47.33	-146.83	16.54
	-89.53	-13.24	-68.87	-40.16	-124.24	13.68
	-73.25	-11.08	-56.35	-32.98	-101.65	10.82
	-56.98	-8.92	-43.83	-25.80	-79.06	7.95
	-40.70	-6.77	-31.30	-18.63	-56.47	5.09
	-24.42	-4.61	-18.78	-11.45	-33.88	2.23
	-8.14	-2.46	-6.26	-4.28	-11.29	-0.64
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.14	0.30	-6.26	-2.90	-11.29	3.50
	-24.42	-1.86	-18.78	-10.07	-33.88	6.36
	-40.70	-4.01	-31.30	-17.25	-56.47	9.23
	-56.98	-6.17	-43.83	-24.43	-79.06	12.09
	-73.25	-8.33	-56.35	-31.60	-101.65	14.95

	-89.53	-10.48	-68.87	-38.78	-124.24	17.82
	-105.81	-12.64	-81.39	-45.95	-146.83	20.68
	-122.09	-14.79	-93.91	-53.13	-169.41	23.54
	1.08	8.14	3.59	6.26	-1.43	11.29
2.65	1.09	8.15	3.60	6.27	-1.42	11.31
	-122.29	-17.77	-94.11	-54.72	-169.68	19.17
	-105.98	-15.59	-81.56	-47.51	-147.05	16.34
	-89.68	-13.41	-69.01	-40.31	-124.43	13.50
	-73.37	-11.22	-56.47	-33.11	-101.81	10.66
	-57.07	-9.04	-43.92	-25.91	-79.18	7.82
	-40.76	-6.86	-31.37	-18.71	-56.56	4.99
	-24.46	-4.68	-18.82	-11.50	-33.94	2.15
	-8.15	-2.50	-6.27	-4.30	-11.31	-0.69
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.15	0.31	-6.27	-2.90	-11.31	3.53
	-24.46	-1.87	-18.82	-10.10	-33.94	6.36
	-40.76	-4.05	-31.37	-17.30	-56.56	9.20
	-57.07	-6.23	-43.92	-24.50	-79.18	12.04
	-73.37	-8.42	-56.47	-31.71	-101.81	14.87
	-89.68	-10.60	-69.01	-38.91	-124.43	17.71
	-105.98	-12.78	-81.56	-46.11	-147.05	20.55
	-122.29	-14.96	-94.11	-53.31	-169.68	23.39
	1.09	8.15	3.60	6.27	-1.42	11.31
	2.70	1.10	8.17	3.61	6.29	-1.41
-122.48		-17.99	-94.31	-54.92	-169.94	18.94
-106.15		-15.79	-81.73	-47.70	-147.28	16.13
-89.82		-13.58	-69.16	-40.47	-124.62	13.31
-73.49		-11.37	-56.58	-33.24	-101.97	10.50
-57.16		-9.16	-44.01	-26.01	-79.31	7.69
-40.83		-6.95	-31.44	-18.79	-56.65	4.88
-24.50		-4.74	-18.86	-11.56	-33.99	2.07
-8.17		-2.54	-6.29	-4.33	-11.33	-0.74
0.00		0.00	0.00	0.00	0.00	0.00
-8.17		0.33	-6.29	-2.90	-11.33	3.55
-24.50		-1.88	-18.86	-10.13	-33.99	6.36
-40.83		-4.09	-31.44	-17.35	-56.65	9.17
-57.16		-6.30	-44.01	-24.58	-79.31	11.99
-73.49		-8.51	-56.58	-31.81	-101.97	14.80
-89.82		-10.72	-69.16	-39.04	-124.62	17.61
-106.15		-12.92	-81.73	-46.27	-147.28	20.42
-122.48		-15.13	-94.31	-53.49	-169.94	23.23
1.10		8.17	3.61	6.29	-1.41	11.33
2.75		1.12	8.18	3.63	6.30	-1.39
	-122.68	-18.22	-94.50	-55.13	-170.21	18.70
	-106.32	-15.98	-81.90	-47.88	-147.51	15.92

	-89.96	-13.75	-69.30	-40.63	-124.82	13.13
	-73.61	-11.51	-56.70	-33.37	-102.12	10.35
	-57.25	-9.28	-44.10	-26.12	-79.43	7.56
	-40.89	-7.04	-31.50	-18.86	-56.74	4.78
	-24.54	-4.81	-18.90	-11.61	-34.04	1.99
	-8.18	-2.57	-6.30	-4.36	-11.35	-0.79
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.18	0.34	-6.30	-2.90	-11.35	3.58
	-24.54	-1.89	-18.90	-10.15	-34.04	6.36
	-40.89	-4.13	-31.50	-17.41	-56.74	9.15
	-57.25	-6.36	-44.10	-24.66	-79.43	11.93
	-73.61	-8.60	-56.70	-31.91	-102.12	14.72
	-89.96	-10.83	-69.30	-39.17	-124.82	17.50
	-106.32	-13.07	-81.90	-46.42	-147.51	20.29
	-122.68	-15.30	-94.50	-53.68	-170.21	23.07
	1.12	8.18	3.63	6.30	-1.39	11.35
2.80	1.13	8.19	3.64	6.31	-1.38	11.36
	-122.87	-18.44	-94.70	-55.34	-170.47	18.46
	-106.49	-16.18	-82.07	-48.06	-147.74	15.71
	-90.11	-13.92	-69.45	-40.78	-125.01	12.95
	-73.72	-11.66	-56.82	-33.50	-102.28	10.19
	-57.34	-9.40	-44.19	-26.22	-79.55	7.43
	-40.96	-7.14	-31.57	-18.94	-56.82	4.67
	-24.57	-4.88	-18.94	-11.66	-34.09	1.91
	-8.19	-2.61	-6.31	-4.38	-11.36	-0.85
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.19	0.35	-6.31	-2.90	-11.36	3.61
	-24.57	-1.91	-18.94	-10.18	-34.09	6.36
	-40.96	-4.17	-31.57	-17.46	-56.82	9.12
	-57.34	-6.43	-44.19	-24.74	-79.55	11.88
	-73.72	-8.69	-56.82	-32.02	-102.28	14.64
	-90.11	-10.95	-69.45	-39.30	-125.01	17.40
	-106.49	-13.21	-82.07	-46.58	-147.74	20.16
	-122.87	-15.47	-94.70	-53.86	-170.47	22.92
	1.13	8.19	3.64	6.31	-1.38	11.36
2.85	1.14	8.20	3.65	6.33	-1.37	11.38
	-123.07	-18.66	-94.90	-55.55	-170.74	18.23
	-106.66	-16.38	-82.24	-48.25	-147.97	15.50
	-90.25	-14.09	-69.59	-40.94	-125.21	12.76
	-73.84	-11.80	-56.94	-33.63	-102.44	10.03
	-57.43	-9.52	-44.28	-26.33	-79.68	7.30
	-41.02	-7.23	-31.63	-19.02	-56.91	4.57
	-24.61	-4.94	-18.98	-11.72	-34.15	1.83
	-8.20	-2.65	-6.33	-4.41	-11.38	-0.90
	0.00	0.00	0.00	0.00	0.00	0.00

	-8.20	0.37	-6.33	-2.90	-11.38	3.63
	-24.61	-1.92	-18.98	-10.20	-34.15	6.36
	-41.02	-4.21	-31.63	-17.51	-56.91	9.10
	-57.43	-6.49	-44.28	-24.82	-79.68	11.83
	-73.84	-8.78	-56.94	-32.12	-102.44	14.56
	-90.25	-11.07	-69.59	-39.43	-125.21	17.29
	-106.66	-13.36	-82.24	-46.74	-147.97	20.03
	-123.07	-15.64	-94.90	-54.04	-170.74	22.76
	1.14	8.20	3.65	6.33	-1.37	11.38
2.90	1.16	8.22	3.67	6.34	-1.35	11.40
	-123.27	-18.89	-95.09	-55.77	-171.01	17.99
	-106.83	-16.57	-82.41	-48.43	-148.21	15.28
	-90.40	-14.26	-69.74	-41.10	-125.40	12.58
	-73.96	-11.95	-57.06	-33.77	-102.60	9.87
	-57.53	-9.63	-44.38	-26.43	-79.80	7.17
	-41.09	-7.32	-31.70	-19.10	-57.00	4.46
	-24.65	-5.01	-19.02	-11.77	-34.20	1.75
	-8.22	-2.69	-6.34	-4.43	-11.40	-0.95
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.22	0.38	-6.34	-2.90	-11.40	3.66
	-24.65	-1.93	-19.02	-10.23	-34.20	6.36
	-41.09	-4.25	-31.70	-17.56	-57.00	9.07
	-57.53	-6.56	-44.38	-24.90	-79.80	11.78
	-73.96	-8.87	-57.06	-32.23	-102.60	14.48
	-90.40	-11.19	-69.74	-39.56	-125.40	17.19
	-106.83	-13.50	-82.41	-46.90	-148.21	19.90
	-123.27	-15.81	-95.09	-54.23	-171.01	22.60
	1.16	8.22	3.67	6.34	-1.35	11.40
2.95	1.17	8.23	3.68	6.35	-1.34	11.42
	-123.47	-19.11	-95.29	-55.98	-171.27	17.75
	-107.00	-16.77	-82.59	-48.62	-148.44	15.07
	-90.54	-14.43	-69.88	-41.26	-125.60	12.39
	-74.08	-12.09	-57.17	-33.90	-102.76	9.71
	-57.62	-9.75	-44.47	-26.54	-79.93	7.03
	-41.16	-7.41	-31.76	-19.18	-57.09	4.35
	-24.69	-5.07	-19.06	-11.82	-34.25	1.67
	-8.23	-2.73	-6.35	-4.46	-11.42	-1.01
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.23	0.39	-6.35	-2.90	-11.42	3.69
	-24.69	-1.95	-19.06	-10.26	-34.25	6.36
	-41.16	-4.29	-31.76	-17.62	-57.09	9.04
	-57.62	-6.63	-44.47	-24.98	-79.93	11.72
	-74.08	-8.97	-57.17	-32.34	-102.76	14.40
	-90.54	-11.31	-69.88	-39.69	-125.60	17.08
	-107.00	-13.65	-82.59	-47.05	-148.44	19.76

	-123.47	-15.98	-95.29	-54.41	-171.27	22.44	
	1.17	8.23	3.68	6.35	-1.34	11.42	
3.00	1.23	8.29	3.74	6.41	-1.28	11.50	
	-124.37	-20.04	-96.19	-56.89	-172.49	16.81	
	-107.79	-17.58	-83.37	-49.41	-149.49	14.25	
	-91.20	-15.12	-70.54	-41.93	-126.49	11.69	
	-74.62	-12.66	-57.72	-34.45	-103.50	9.13	
	-58.04	-10.20	-44.89	-26.97	-80.50	6.57	
	-41.46	-7.74	-32.06	-19.49	-57.50	4.01	
	-24.87	-5.28	-19.24	-12.01	-34.50	1.45	
	-8.29	-2.82	-6.41	-4.53	-11.50	-1.11	
	0.00	0.00	0.00	0.00	0.00	0.00	
	-8.29	0.36	-6.41	-2.94	-11.50	3.66	
	-24.87	-2.10	-19.24	-10.42	-34.50	6.22	
	-41.46	-4.56	-32.06	-17.90	-57.50	8.78	
	-58.04	-7.02	-44.89	-25.38	-80.50	11.34	
	-74.62	-9.48	-57.72	-32.86	-103.50	13.90	
	-91.20	-11.94	-70.54	-40.34	-126.49	16.46	
	-107.79	-14.40	-83.37	-47.82	-149.49	19.02	
	-124.37	-16.86	-96.19	-55.30	-172.49	21.58	
		1.23	8.29	3.74	6.41	-1.28	11.50
	3.05	1.24	8.31	3.75	6.43	-1.27	11.52
-124.58		-20.28	-96.40	-57.11	-172.77	16.56	
-107.97		-17.79	-83.55	-49.61	-149.74	14.03	
-91.36		-15.30	-70.69	-42.10	-126.70	11.50	
-74.75		-12.81	-57.84	-34.59	-103.66	8.97	
-58.14		-10.32	-44.99	-27.08	-80.63	6.44	
-41.53		-7.84	-32.13	-19.58	-57.59	3.90	
-24.92		-5.35	-19.28	-12.07	-34.55	1.37	
-8.31		-2.86	-6.43	-4.56	-11.52	-1.16	
0.00		0.00	0.00	0.00	0.00	0.00	
-8.31		0.37	-6.43	-2.95	-11.52	3.69	
-24.92		-2.12	-19.28	-10.45	-34.55	6.22	
-41.53		-4.60	-32.13	-17.96	-57.59	8.75	
-58.14		-7.09	-44.99	-25.47	-80.63	11.29	
-74.75		-9.58	-57.84	-32.98	-103.66	13.82	
-91.36		-12.07	-70.69	-40.48	-126.70	16.35	
-107.97		-14.55	-83.55	-47.99	-149.74	18.88	
-124.58		-17.04	-96.40	-55.50	-172.77	21.41	
		1.24	8.31	3.75	6.43	-1.27	11.52
3.10		1.26	8.32	3.77	6.44	-1.25	11.54
	-124.79	-20.51	-96.61	-57.34	-173.05	16.31	
	-108.15	-17.99	-83.73	-49.80	-149.98	13.81	
	-91.51	-15.48	-70.85	-42.27	-126.91	11.31	
	-74.87	-12.96	-57.97	-34.73	-103.83	8.80	

	-58.23	-10.45	-45.08	-27.19	-80.76	6.30
	-41.60	-7.93	-32.20	-19.66	-57.68	3.80
	-24.96	-5.42	-19.32	-12.12	-34.61	1.29
	-8.32	-2.90	-6.44	-4.59	-11.54	-1.21
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.32	0.39	-6.44	-2.95	-11.54	3.72
	-24.96	-2.13	-19.32	-10.48	-34.61	6.22
	-41.60	-4.65	-32.20	-18.02	-57.68	8.72
	-58.23	-7.16	-45.08	-25.55	-80.76	11.23
	-74.87	-9.68	-57.97	-33.09	-103.83	13.73
	-91.51	-12.19	-70.85	-40.62	-126.91	16.24
	-108.15	-14.71	-83.73	-48.16	-149.98	18.74
	-124.79	-17.22	-96.61	-55.69	-173.05	21.24
	1.26	8.32	3.77	6.44	-1.25	11.54
3.15	1.27	8.33	3.78	6.45	-1.24	11.56
	-124.99	-20.75	-96.82	-57.56	-173.34	16.07
	-108.33	-18.20	-83.91	-49.99	-150.22	13.59
	-91.66	-15.66	-71.00	-42.43	-127.11	11.11
	-75.00	-13.12	-58.09	-34.87	-104.00	8.64
	-58.33	-10.57	-45.18	-27.31	-80.89	6.16
	-41.66	-8.03	-32.27	-19.74	-57.78	3.69
	-25.00	-5.48	-19.36	-12.18	-34.67	1.21
	-8.33	-2.94	-6.45	-4.62	-11.56	-1.27
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.33	0.40	-6.45	-2.95	-11.56	3.74
	-25.00	-2.15	-19.36	-10.51	-34.67	6.22
	-41.66	-4.69	-32.27	-18.07	-57.78	8.69
	-58.33	-7.23	-45.18	-25.64	-80.89	11.17
	-75.00	-9.78	-58.09	-33.20	-104.00	13.65
	-91.66	-12.32	-71.00	-40.76	-127.11	16.12
	-108.33	-14.86	-83.91	-48.32	-150.22	18.60
	-124.99	-17.41	-96.82	-55.89	-173.34	21.07
	1.27	8.33	3.78	6.45	-1.24	11.56
3.20	1.29	8.35	3.80	6.47	-1.22	11.57
	-125.20	-20.98	-97.03	-57.78	-173.62	15.82
	-108.51	-18.41	-84.09	-50.19	-150.47	13.37
	-91.82	-15.84	-71.15	-42.60	-127.32	10.92
	-75.12	-13.27	-58.22	-35.01	-104.17	8.47
	-58.43	-10.70	-45.28	-27.42	-81.02	6.02
	-41.73	-8.12	-32.34	-19.83	-57.87	3.58
	-25.04	-5.55	-19.41	-12.23	-34.72	1.13
	-8.35	-2.98	-6.47	-4.64	-11.57	-1.32
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.35	0.41	-6.47	-2.95	-11.57	3.77
	-25.04	-2.16	-19.41	-10.54	-34.72	6.22

	-41.73	-4.73	-32.34	-18.13	-57.87	8.66
	-58.43	-7.30	-45.28	-25.72	-81.02	11.11
	-75.12	-9.88	-58.22	-33.31	-104.17	13.56
	-91.82	-12.45	-71.15	-40.90	-127.32	16.01
	-108.51	-15.02	-84.09	-48.49	-150.47	18.46
	-125.20	-17.59	-97.03	-56.08	-173.62	20.91
	1.29	8.35	3.80	6.47	-1.22	11.57
3.25	1.35	8.41	3.86	6.53	-1.16	11.66
	-126.16	-21.97	-97.99	-58.75	-174.91	14.82
	-109.34	-19.27	-84.92	-51.03	-151.59	12.50
	-92.52	-16.57	-71.86	-43.31	-128.27	10.18
	-75.70	-13.87	-58.79	-35.60	-104.95	7.86
	-58.88	-11.17	-45.73	-27.88	-81.63	5.54
	-42.05	-8.47	-32.66	-20.16	-58.30	3.22
	-25.23	-5.77	-19.60	-12.44	-34.98	0.90
	-8.41	-3.07	-6.53	-4.72	-11.66	-1.42
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.41	0.37	-6.53	-3.00	-11.66	3.74
	-25.23	-2.33	-19.60	-10.72	-34.98	6.06
	-42.05	-5.03	-32.66	-18.44	-58.30	8.38
	-58.88	-7.73	-45.73	-26.15	-81.63	10.70
	-75.70	-10.42	-58.79	-33.87	-104.95	13.02
	-92.52	-13.12	-71.86	-41.59	-128.27	15.35
	-109.34	-15.82	-84.92	-49.31	-151.59	17.67
	-126.16	-18.52	-97.99	-57.03	-174.91	19.99
	1.35	8.41	3.86	6.53	-1.16	11.66
3.30	1.36	8.43	3.87	6.55	-1.15	11.68
	-126.38	-22.21	-98.21	-58.98	-175.21	14.56
	-109.53	-19.48	-85.11	-51.24	-151.85	12.27
	-92.68	-16.76	-72.02	-43.49	-128.49	9.98
	-75.83	-14.03	-58.92	-35.74	-105.13	7.69
	-58.98	-11.30	-45.83	-27.99	-81.76	5.40
	-42.13	-8.57	-32.74	-20.24	-58.40	3.10
	-25.28	-5.84	-19.64	-12.50	-35.04	0.81
	-8.43	-3.11	-6.55	-4.75	-11.68	-1.48
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.43	0.38	-6.55	-3.00	-11.68	3.77
	-25.28	-2.34	-19.64	-10.75	-35.04	6.06
	-42.13	-5.07	-32.74	-18.50	-58.40	8.35
	-58.98	-7.80	-45.83	-26.24	-81.76	10.64
	-75.83	-10.53	-58.92	-33.99	-105.13	12.93
	-92.68	-13.26	-72.02	-41.74	-128.49	15.22
	-109.53	-15.99	-85.11	-49.49	-151.85	17.52
	-126.38	-18.71	-98.21	-57.24	-175.21	19.81
	1.36	8.43	3.87	6.55	-1.15	11.68

3.35	1.38	8.44	3.89	6.56	-1.13	11.70
	-126.60	-22.46	-98.43	-59.22	-175.50	14.30
	-109.72	-19.70	-85.30	-51.44	-152.10	12.04
	-92.84	-16.94	-72.18	-43.66	-128.70	9.78
	-75.96	-14.19	-59.06	-35.89	-105.30	7.51
	-59.08	-11.43	-45.93	-28.11	-81.90	5.25
	-42.20	-8.67	-32.81	-20.33	-58.50	2.99
	-25.32	-5.91	-19.69	-12.55	-35.10	0.73
	-8.44	-3.15	-6.56	-4.78	-11.70	-1.53
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.44	0.40	-6.56	-3.00	-11.70	3.79
	-25.32	-2.36	-19.69	-10.78	-35.10	6.06
	-42.20	-5.12	-32.81	-18.56	-58.50	8.32
	-59.08	-7.88	-45.93	-26.33	-81.90	10.58
	-75.96	-10.63	-59.06	-34.11	-105.30	12.84
	-92.84	-13.39	-72.18	-41.89	-128.70	15.10
	-109.72	-16.15	-85.30	-49.66	-152.10	17.37
	-126.60	-18.91	-98.43	-57.44	-175.50	19.63
	1.38	8.44	3.89	6.56	-1.13	11.70
	3.40	1.39	8.45	3.90	6.58	-1.12
-126.82		-22.70	-98.65	-59.45	-175.80	14.04
-109.91		-19.92	-85.49	-51.64	-152.36	11.81
-93.00		-17.13	-72.34	-43.84	-128.92	9.58
-76.09		-14.34	-59.19	-36.03	-105.48	7.34
-59.18		-11.56	-46.03	-28.22	-82.04	5.11
-42.27		-8.77	-32.88	-20.42	-58.60	2.88
-25.36		-5.98	-19.73	-12.61	-35.16	0.65
-8.45		-3.20	-6.58	-4.80	-11.72	-1.59
0.00		0.00	0.00	0.00	0.00	0.00
-8.45		0.41	-6.58	-3.00	-11.72	3.82
-25.36		-2.38	-19.73	-10.81	-35.16	6.05
-42.27		-5.17	-32.88	-18.62	-58.60	8.28
-59.18		-7.95	-46.03	-26.42	-82.04	10.52
-76.09		-10.74	-59.19	-34.23	-105.48	12.75
-93.00		-13.53	-72.34	-42.03	-128.92	14.98
-109.91		-16.31	-85.49	-49.84	-152.36	17.21
-126.82		-19.10	-98.65	-57.65	-175.80	19.45
1.39		8.45	3.90	6.58	-1.12	11.72
3.45		1.41	8.47	3.92	6.60	-1.10
	-127.11	-23.02	-98.94	-59.75	-176.20	13.71
	-110.16	-20.20	-85.75	-51.91	-152.70	11.52
	-93.22	-17.37	-72.55	-44.06	-129.21	9.32
	-76.27	-14.54	-59.36	-36.22	-105.72	7.13
	-59.32	-11.72	-46.17	-28.37	-82.22	4.94
	-42.37	-8.89	-32.98	-20.53	-58.73	2.74

	-25.42	-6.07	-19.79	-12.68	-35.24	0.55
	-8.47	-3.24	-6.60	-4.84	-11.75	-1.65
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.47	0.42	-6.60	-3.01	-11.75	3.84
	-25.42	-2.41	-19.79	-10.85	-35.24	6.03
	-42.37	-5.24	-32.98	-18.70	-58.73	8.23
	-59.32	-8.06	-46.17	-26.54	-82.22	10.42
	-76.27	-10.89	-59.36	-34.39	-105.72	12.61
	-93.22	-13.71	-72.55	-42.24	-129.21	14.81
	-110.16	-16.54	-85.75	-50.08	-152.70	17.00
	-127.11	-19.37	-98.94	-57.93	-176.20	19.20
	1.41	8.47	3.92	6.60	-1.10	11.75
	1.43	8.49	3.94	6.61	-1.08	11.77
3.50	-127.33	-23.27	-99.16	-59.99	-176.49	13.45
	-110.36	-20.41	-85.94	-52.11	-152.96	11.28
	-93.38	-17.56	-72.72	-44.24	-129.43	9.12
	-76.40	-14.70	-59.49	-36.36	-105.90	6.96
	-59.42	-11.85	-46.27	-28.49	-82.36	4.79
	-42.44	-8.99	-33.05	-20.61	-58.83	2.63
	-25.47	-6.14	-19.83	-12.74	-35.30	0.46
	-8.49	-3.28	-6.61	-4.86	-11.77	-1.70
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.49	0.43	-6.61	-3.01	-11.77	3.86
	-25.47	-2.43	-19.83	-10.88	-35.30	6.03
	-42.44	-5.28	-33.05	-18.76	-58.83	8.19
	-59.42	-8.14	-46.27	-26.63	-82.36	10.36
	-76.40	-10.99	-59.49	-34.51	-105.90	12.52
	-93.38	-13.85	-72.72	-42.38	-129.43	14.69
	-110.36	-16.70	-85.94	-50.26	-152.96	16.85
	-127.33	-19.56	-99.16	-58.13	-176.49	19.01
	1.43	8.49	3.94	6.61	-1.08	11.77
	1.44	8.50	3.95	6.63	-1.07	11.79
3.55	-127.55	-23.52	-99.38	-60.22	-176.79	13.19
	-110.55	-20.63	-86.13	-52.32	-153.22	11.05
	-93.54	-17.75	-72.88	-44.42	-129.65	8.92
	-76.53	-14.86	-59.63	-36.51	-106.08	6.78
	-59.53	-11.98	-46.38	-28.61	-82.50	4.65
	-42.52	-9.09	-33.13	-20.70	-58.93	2.51
	-25.51	-6.21	-19.88	-12.80	-35.36	0.38
	-8.50	-3.32	-6.63	-4.89	-11.79	-1.75
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.50	0.44	-6.63	-3.01	-11.79	3.89
	-25.51	-2.45	-19.88	-10.92	-35.36	6.02
	-42.52	-5.33	-33.13	-18.82	-58.93	8.16
	-59.53	-8.22	-46.38	-26.72	-82.50	10.29

	-76.53	-11.10	-59.63	-34.63	-106.08	12.43
	-93.54	-13.99	-72.88	-42.53	-129.65	14.56
	-110.55	-16.87	-86.13	-50.44	-153.22	16.70
	-127.55	-19.76	-99.38	-58.34	-176.79	18.83
	1.44	8.50	3.95	6.63	-1.07	11.79
3.60	1.46	8.52	3.97	6.64	-1.05	11.81
	-127.78	-23.77	-99.60	-60.46	-177.09	12.93
	-110.74	-20.85	-86.32	-52.52	-153.48	10.82
	-93.70	-17.94	-73.04	-44.59	-129.87	8.72
	-76.67	-15.02	-59.76	-36.66	-106.26	6.61
	-59.63	-12.11	-46.48	-28.72	-82.64	4.51
	-42.59	-9.19	-33.20	-20.79	-59.03	2.40
	-25.56	-6.28	-19.92	-12.85	-35.42	0.30
	-8.52	-3.37	-6.64	-4.92	-11.81	-1.81
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.52	0.45	-6.64	-3.01	-11.81	3.91
	-25.56	-2.46	-19.92	-10.95	-35.42	6.02
	-42.59	-5.38	-33.20	-18.88	-59.03	8.12
	-59.63	-8.29	-46.48	-26.81	-82.64	10.23
	-76.67	-11.21	-59.76	-34.75	-106.26	12.33
	-93.70	-14.12	-73.04	-42.68	-129.87	14.44
	-110.74	-17.04	-86.32	-50.62	-153.48	16.55
	-127.78	-19.95	-99.60	-58.55	-177.09	18.65
	1.46	8.52	3.97	6.64	-1.05	11.81
	3.65	1.47	8.53	3.98	6.65	-1.04
-128.00		-24.01	-99.82	-60.69	-177.39	12.66
-110.93		-21.07	-86.51	-52.73	-153.74	10.59
-93.87		-18.13	-73.20	-44.77	-130.09	8.51
-76.80		-15.18	-59.89	-36.80	-106.43	6.44
-59.73		-12.24	-46.58	-28.84	-82.78	4.36
-42.67		-9.29	-33.27	-20.88	-59.13	2.29
-25.60		-6.35	-19.96	-12.91	-35.48	0.21
-8.53		-3.41	-6.65	-4.95	-11.83	-1.86
0.00		0.00	0.00	0.00	0.00	0.00
-8.53		0.46	-6.65	-3.01	-11.83	3.94
-25.60		-2.48	-19.96	-10.98	-35.48	6.01
-42.67		-5.43	-33.27	-18.94	-59.13	8.09
-59.73		-8.37	-46.58	-26.91	-82.78	10.17
-76.80		-11.31	-59.89	-34.87	-106.43	12.24
-93.87		-14.26	-73.20	-42.83	-130.09	14.32
-110.93		-17.20	-86.51	-50.80	-153.74	16.39
-128.00		-20.15	-99.82	-58.76	-177.39	18.47
1.47		8.53	3.98	6.65	-1.04	11.83
3.70		1.49	8.55	4.00	6.67	-1.02
	-128.22	-24.26	-100.05	-60.93	-177.69	12.40

	-111.12	-21.29	-86.71	-52.94	-154.00	10.36
	-94.03	-18.32	-73.37	-44.94	-130.31	8.31
	-76.93	-15.34	-60.03	-36.95	-106.62	6.26
	-59.84	-12.37	-46.69	-28.96	-82.92	4.22
	-42.74	-9.40	-33.35	-20.96	-59.23	2.17
	-25.64	-6.42	-20.01	-12.97	-35.54	0.13
	-8.55	-3.45	-6.67	-4.98	-11.85	-1.92
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.55	0.47	-6.67	-3.02	-11.85	3.96
	-25.64	-2.50	-20.01	-11.01	-35.54	6.01
	-42.74	-5.47	-33.35	-19.00	-59.23	8.06
	-59.84	-8.45	-46.69	-27.00	-82.92	10.10
	-76.93	-11.42	-60.03	-34.99	-106.62	12.15
	-94.03	-14.39	-73.37	-42.98	-130.31	14.19
	-111.12	-17.37	-86.71	-50.98	-154.00	16.24
	-128.22	-20.34	-100.05	-58.97	-177.69	18.29
	1.49	8.55	4.00	6.67	-1.02	11.85
	1.50	8.56	4.01	6.68	-1.01	11.87
	-128.44	-24.51	-100.27	-61.17	-177.99	12.14
	-111.32	-21.51	-86.90	-53.14	-154.26	10.12
	-94.19	-18.51	-73.53	-45.12	-130.53	8.11
	-77.07	-15.50	-60.16	-37.10	-106.80	6.09
	-59.94	-12.50	-46.79	-29.07	-83.06	4.08
	-42.81	-9.50	-33.42	-21.05	-59.33	2.06
	-25.69	-6.49	-20.05	-13.03	-35.60	0.04
	-8.56	-3.49	-6.68	-5.01	-11.87	-1.97
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.56	0.49	-6.68	-3.02	-11.87	3.99
	-25.69	-2.52	-20.05	-11.04	-35.60	6.01
	-42.81	-5.52	-33.42	-19.06	-59.33	8.02
	-59.94	-8.52	-46.79	-27.09	-83.06	10.04
	-77.07	-11.53	-60.16	-35.11	-106.80	12.05
	-94.19	-14.53	-73.53	-43.13	-130.53	14.07
	-111.32	-17.53	-86.90	-51.16	-154.26	16.09
	-128.44	-20.54	-100.27	-59.18	-177.99	18.10
	1.50	8.56	4.01	6.68	-1.01	11.87
	1.52	8.58	4.03	6.70	-0.99	11.89
	-128.67	-24.76	-100.49	-61.40	-178.29	11.88
	-111.51	-21.73	-87.09	-53.35	-154.52	9.89
	-94.36	-18.70	-73.69	-45.30	-130.75	7.90
	-77.20	-15.66	-60.29	-37.24	-106.98	5.92
	-60.04	-12.63	-46.90	-29.19	-83.20	3.93
	-42.89	-9.60	-33.50	-21.14	-59.43	1.95
	-25.73	-6.56	-20.10	-13.09	-35.66	-0.04
	-8.58	-3.53	-6.70	-5.03	-11.89	-2.03

	0.00	0.00	0.00	0.00	0.00	0.00
	-8.58	0.50	-6.70	-3.02	-11.89	4.01
	-25.73	-2.54	-20.10	-11.07	-35.66	6.00
	-42.89	-5.57	-33.50	-19.12	-59.43	7.99
	-60.04	-8.60	-46.90	-27.18	-83.20	9.97
	-77.20	-11.63	-60.29	-35.23	-106.98	11.96
	-94.36	-14.67	-73.69	-43.28	-130.75	13.95
	-111.51	-17.70	-87.09	-51.34	-154.52	15.93
	-128.67	-20.73	-100.49	-59.39	-178.29	17.92
	1.52	8.58	4.03	6.70	-0.99	11.89
3.85	1.59	8.66	4.10	6.78	-0.92	11.99
	-129.83	-25.95	-101.66	-62.58	-179.86	10.67
	-112.52	-22.76	-88.10	-54.37	-155.88	8.84
	-95.21	-19.58	-74.55	-46.16	-131.90	7.01
	-77.90	-16.39	-60.99	-37.96	-107.92	5.18
	-60.59	-13.20	-47.44	-29.75	-83.94	3.35
	-43.28	-10.01	-33.89	-21.54	-59.95	1.52
	-25.97	-6.82	-20.33	-13.33	-35.97	-0.31
	-8.66	-3.63	-6.78	-5.12	-11.99	-2.15
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.66	0.45	-6.78	-3.08	-11.99	3.98
	-25.97	-2.74	-20.33	-11.29	-35.97	5.81
	-43.28	-5.93	-33.89	-19.50	-59.95	7.64
	-60.59	-9.12	-47.44	-27.71	-83.94	9.47
	-77.90	-12.31	-60.99	-35.92	-107.92	11.30
	-95.21	-15.50	-74.55	-44.12	-131.90	13.13
	-112.52	-18.68	-88.10	-52.33	-155.88	14.96
	-129.83	-21.87	-101.66	-60.54	-179.86	16.79
	1.59	8.66	4.10	6.78	-0.92	11.99
3.90	1.61	8.67	4.12	6.79	-0.90	12.01
	-130.06	-26.21	-101.89	-62.83	-180.18	10.40
	-112.72	-22.99	-88.30	-54.59	-156.16	8.60
	-95.38	-19.77	-74.72	-46.35	-132.13	6.80
	-78.04	-16.55	-61.13	-38.11	-108.11	5.00
	-60.70	-13.34	-47.55	-29.87	-84.08	3.20
	-43.35	-10.12	-33.96	-21.63	-60.06	1.40
	-26.01	-6.90	-20.38	-13.39	-36.04	-0.40
	-8.67	-3.68	-6.79	-5.15	-12.01	-2.20
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.67	0.46	-6.79	-3.09	-12.01	4.00
	-26.01	-2.76	-20.38	-11.33	-36.04	5.80
	-43.35	-5.98	-33.96	-19.56	-60.06	7.60
	-60.70	-9.20	-47.55	-27.80	-84.08	9.40
	-78.04	-12.42	-61.13	-36.04	-108.11	11.20
	-95.38	-15.64	-74.72	-44.28	-132.13	13.00

	-112.72	-18.86	-88.30	-52.52	-156.16	14.80	
	-130.06	-22.08	-101.89	-60.76	-180.18	16.60	
	1.61	8.67	4.12	6.79	-0.90	12.01	
3.95	1.63	8.69	4.14	6.81	-0.88	12.03	
	-130.30	-26.47	-102.12	-63.07	-180.50	10.13	
	-112.92	-23.22	-88.51	-54.80	-156.43	8.36	
	-95.55	-19.97	-74.89	-46.53	-132.36	6.59	
	-78.18	-16.72	-61.27	-38.26	-108.30	4.82	
	-60.81	-13.47	-47.66	-29.99	-84.23	3.05	
	-43.43	-10.22	-34.04	-21.72	-60.17	1.28	
	-26.06	-6.97	-20.42	-13.45	-36.10	-0.49	
	-8.69	-3.72	-6.81	-5.18	-12.03	-2.26	
	0.00	0.00	0.00	0.00	0.00	0.00	
	-8.69	0.47	-6.81	-3.09	-12.03	4.02	
	-26.06	-2.78	-20.42	-11.36	-36.10	5.79	
	-43.43	-6.03	-34.04	-19.63	-60.17	7.56	
	-60.81	-9.28	-47.66	-27.90	-84.23	9.33	
	-78.18	-12.53	-61.27	-36.17	-108.30	11.10	
	-95.55	-15.79	-74.89	-44.44	-132.36	12.87	
	-112.92	-19.04	-88.51	-52.71	-156.43	14.64	
	-130.30	-22.29	-102.12	-60.98	-180.50	16.41	
		1.63	8.69	4.14	6.81	-0.88	12.03
	4.00	1.64	8.70	4.15	6.82	-0.87	12.05
-130.53		-26.73	-102.36	-63.32	-180.81	9.85	
-113.13		-23.45	-88.71	-55.02	-156.70	8.11	
-95.72		-20.17	-75.06	-46.72	-132.60	6.38	
-78.32		-16.89	-61.41	-38.42	-108.49	4.64	
-60.92		-13.61	-47.77	-30.12	-84.38	2.90	
-43.51		-10.32	-34.12	-21.81	-60.27	1.16	
-26.11		-7.04	-20.47	-13.51	-36.16	-0.57	
-8.70		-3.76	-6.82	-5.21	-12.05	-2.31	
0.00		0.00	0.00	0.00	0.00	0.00	
-8.70		0.48	-6.82	-3.09	-12.05	4.05	
-26.11		-2.80	-20.47	-11.39	-36.16	5.79	
-43.51		-6.08	-34.12	-19.69	-60.27	7.52	
-60.92		-9.37	-47.77	-28.00	-84.38	9.26	
-78.32		-12.65	-61.41	-36.30	-108.49	11.00	
-95.72		-15.93	-75.06	-44.60	-132.60	12.74	
-113.13		-19.21	-88.71	-52.90	-156.70	14.47	
-130.53		-22.49	-102.36	-61.20	-180.81	16.21	
		1.64	8.70	4.15	6.82	-0.87	12.05
4.05		1.66	8.72	4.17	6.84	-0.85	12.08
	-130.77	-27.00	-102.59	-63.57	-181.13	9.58	
	-113.33	-23.68	-88.91	-55.24	-156.98	7.87	
	-95.90	-20.37	-75.23	-46.90	-132.83	6.17	

	-78.46	-17.06	-61.56	-38.57	-108.68	4.46
	-61.02	-13.74	-47.88	-30.24	-84.53	2.75
	-43.59	-10.43	-34.20	-21.90	-60.38	1.05
	-26.15	-7.12	-20.52	-13.57	-36.23	-0.66
	-8.72	-3.80	-6.84	-5.24	-12.08	-2.37
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.72	0.49	-6.84	-3.09	-12.08	4.07
	-26.15	-2.82	-20.52	-11.43	-36.23	5.78
	-43.59	-6.14	-34.20	-19.76	-60.38	7.49
	-61.02	-9.45	-47.88	-28.09	-84.53	9.19
	-78.46	-12.76	-61.56	-36.42	-108.68	10.90
	-95.90	-16.08	-75.23	-44.76	-132.83	12.60
	-113.33	-19.39	-88.91	-53.09	-156.98	14.31
	-130.77	-22.70	-102.59	-61.42	-181.13	16.02
	1.66	8.72	4.17	6.84	-0.85	12.08
	1.74	8.80	4.25	6.92	-0.77	12.19
4.10	-131.99	-28.25	-103.82	-64.81	-182.79	8.31
	-114.40	-24.77	-89.98	-56.31	-158.41	6.77
	-96.80	-21.30	-76.13	-47.82	-134.04	5.23
	-79.20	-17.82	-62.29	-39.32	-109.67	3.68
	-61.60	-14.34	-48.45	-30.82	-85.30	2.14
	-44.00	-10.87	-34.61	-22.33	-60.93	0.60
	-26.40	-7.39	-20.76	-13.83	-36.56	-0.95
	-8.80	-3.91	-6.92	-5.33	-12.19	-2.49
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.80	0.43	-6.92	-3.16	-12.19	4.03
	-26.40	-3.04	-20.76	-11.66	-36.56	5.57
	-44.00	-6.52	-34.61	-20.15	-60.93	7.12
	-61.60	-10.00	-48.45	-28.65	-85.30	8.66
	-79.20	-13.47	-62.29	-37.15	-109.67	10.20
	-96.80	-16.95	-76.13	-45.64	-134.04	11.74
	-114.40	-20.43	-89.98	-54.14	-158.41	13.29
	-131.99	-23.90	-103.82	-62.64	-182.79	14.83
	1.74	8.80	4.25	6.92	-0.77	12.19
	1.75	8.82	4.26	6.94	-0.75	12.21
4.15	-132.24	-28.52	-104.06	-65.07	-183.12	8.03
	-114.61	-25.01	-90.19	-56.54	-158.70	6.52
	-96.98	-21.50	-76.31	-48.01	-134.29	5.01
	-79.34	-17.99	-62.44	-39.48	-109.87	3.50
	-61.71	-14.48	-48.56	-30.95	-85.45	1.99
	-44.08	-10.97	-34.69	-22.42	-61.04	0.48
	-26.45	-7.46	-20.81	-13.89	-36.62	-1.03
	-8.82	-3.95	-6.94	-5.36	-12.21	-2.54
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.82	0.44	-6.94	-3.16	-12.21	4.05

	-26.45	-3.06	-20.81	-11.69	-36.62	5.56
	-44.08	-6.57	-34.69	-20.22	-61.04	7.07
	-61.71	-10.08	-48.56	-28.75	-85.45	8.58
	-79.34	-13.59	-62.44	-37.28	-109.87	10.09
	-96.98	-17.10	-76.31	-45.81	-134.29	11.60
	-114.61	-20.61	-90.19	-54.34	-158.70	13.11
	-132.24	-24.12	-104.06	-62.87	-183.12	14.62
	1.75	8.82	4.26	6.94	-0.75	12.21
4.20	1.77	8.83	4.28	6.95	-0.74	12.23
	-132.49	-28.79	-104.31	-65.33	-183.45	7.74
	-114.82	-25.25	-90.40	-56.77	-158.99	6.26
	-97.16	-21.71	-76.49	-48.20	-134.53	4.79
	-79.49	-18.17	-62.59	-39.64	-110.07	3.31
	-61.83	-14.62	-48.68	-31.08	-85.61	1.83
	-44.16	-11.08	-34.77	-22.52	-61.15	0.35
	-26.50	-7.54	-20.86	-13.96	-36.69	-1.12
	-8.83	-4.00	-6.95	-5.39	-12.23	-2.60
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.83	0.45	-6.95	-3.17	-12.23	4.08
	-26.50	-3.09	-20.86	-11.73	-36.69	5.55
	-44.16	-6.63	-34.77	-20.29	-61.15	7.03
	-61.83	-10.17	-48.68	-28.85	-85.61	8.51
	-79.49	-13.71	-62.59	-37.42	-110.07	9.99
	-97.16	-17.26	-76.49	-45.98	-134.53	11.46
	-114.82	-20.80	-90.40	-54.54	-158.99	12.94
	-132.49	-24.34	-104.31	-63.10	-183.45	14.42
	1.77	8.83	4.28	6.95	-0.74	12.23
4.25	1.79	8.85	4.30	6.97	-0.72	12.25
	-132.73	-29.07	-104.56	-65.59	-183.78	7.45
	-115.03	-25.49	-90.62	-56.99	-159.28	6.01
	-97.34	-21.92	-76.67	-48.40	-134.77	4.57
	-79.64	-18.34	-62.73	-39.80	-110.27	3.12
	-61.94	-14.77	-48.79	-31.21	-85.76	1.68
	-44.24	-11.19	-34.85	-22.61	-61.26	0.23
	-26.55	-7.62	-20.91	-14.02	-36.76	-1.21
	-8.85	-4.04	-6.97	-5.42	-12.25	-2.66
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.85	0.46	-6.97	-3.17	-12.25	4.10
	-26.55	-3.11	-20.91	-11.77	-36.76	5.55
	-44.24	-6.69	-34.85	-20.36	-61.26	6.99
	-61.94	-10.26	-48.79	-28.96	-85.76	8.43
	-79.64	-13.84	-62.73	-37.55	-110.27	9.88
	-97.34	-17.41	-76.67	-46.14	-134.77	11.32
	-115.03	-20.99	-90.62	-54.74	-159.28	12.77
	-132.73	-24.56	-104.56	-63.33	-183.78	14.21

	1.79	8.85	4.30	6.97	-0.72	12.25
4.30	1.81	8.87	4.32	6.99	-0.70	12.28
	-133.06	-29.42	-104.89	-65.93	-184.23	7.08
	-115.32	-25.81	-90.90	-57.29	-159.67	5.68
	-97.58	-22.19	-76.92	-48.65	-135.10	4.28
	-79.84	-18.57	-62.93	-40.01	-110.54	2.88
	-62.10	-14.95	-48.95	-31.38	-85.97	1.48
	-44.35	-11.33	-34.96	-22.74	-61.41	0.08
	-26.61	-7.71	-20.98	-14.10	-36.85	-1.32
	-8.87	-4.09	-6.99	-5.46	-12.28	-2.72
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.87	0.47	-6.99	-3.18	-12.28	4.12
	-26.61	-3.15	-20.98	-11.82	-36.85	5.52
	-44.35	-6.77	-34.96	-20.46	-61.41	6.92
	-62.10	-10.39	-48.95	-29.10	-85.97	8.32
	-79.84	-14.01	-62.93	-37.74	-110.54	9.72
	-97.58	-17.63	-76.92	-46.37	-135.10	11.12
	-115.32	-21.25	-90.90	-55.01	-159.67	12.52
	-133.06	-24.87	-104.89	-63.65	-184.23	13.92
1.81	8.87	4.32	6.99	-0.70	12.28	
4.35	1.83	8.89	4.34	7.01	-0.68	12.30
	-133.31	-29.70	-105.14	-66.19	-184.56	6.80
	-115.54	-26.05	-91.12	-57.52	-159.95	5.43
	-97.76	-22.39	-77.10	-48.85	-135.35	4.06
	-79.99	-18.74	-63.08	-40.18	-110.74	2.69
	-62.21	-15.09	-49.06	-31.50	-86.13	1.33
	-44.44	-11.44	-35.05	-22.83	-61.52	-0.04
	-26.66	-7.78	-21.03	-14.16	-36.91	-1.41
	-8.89	-4.13	-7.01	-5.49	-12.30	-2.77
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.89	0.48	-7.01	-3.18	-12.30	4.14
	-26.66	-3.17	-21.03	-11.86	-36.91	5.51
	-44.44	-6.83	-35.05	-20.53	-61.52	6.88
	-62.21	-10.48	-49.06	-29.20	-86.13	8.24
	-79.99	-14.13	-63.08	-37.87	-110.74	9.61
	-97.76	-17.78	-77.10	-46.54	-135.35	10.98
	-115.54	-21.43	-91.12	-55.21	-159.95	12.34
	-133.31	-25.09	-105.14	-63.89	-184.56	13.71
1.83	8.89	4.34	7.01	-0.68	12.30	
4.40	1.84	8.90	4.35	7.03	-0.67	12.33
	-133.56	-29.97	-105.38	-66.45	-184.90	6.51
	-115.75	-26.29	-91.33	-57.75	-160.24	5.17
	-97.94	-22.60	-77.28	-49.04	-135.59	3.84
	-80.13	-18.92	-63.23	-40.34	-110.94	2.51
	-62.33	-15.23	-49.18	-31.63	-86.29	1.17

	-44.52	-11.55	-35.13	-22.93	-61.63	-0.16
	-26.71	-7.86	-21.08	-14.22	-36.98	-1.50
	-8.90	-4.17	-7.03	-5.52	-12.33	-2.83
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.90	0.49	-7.03	-3.19	-12.33	4.17
	-26.71	-3.20	-21.08	-11.89	-36.98	5.50
	-44.52	-6.88	-35.13	-20.60	-61.63	6.83
	-62.33	-10.57	-49.18	-29.30	-86.29	8.17
	-80.13	-14.25	-63.23	-38.01	-110.94	9.50
	-97.94	-17.94	-77.28	-46.71	-135.59	10.84
	-115.75	-21.62	-91.33	-55.42	-160.24	12.17
	-133.56	-25.31	-105.38	-64.12	-184.90	13.50
	1.84	8.90	4.35	7.03	-0.67	12.33
4.45	1.86	8.92	4.37	7.04	-0.65	12.35
	-133.81	-30.25	-105.63	-66.71	-185.23	6.22
	-115.97	-26.53	-91.55	-57.98	-160.53	4.92
	-98.12	-22.81	-77.46	-49.24	-135.84	3.62
	-80.28	-19.09	-63.38	-40.50	-111.14	2.32
	-62.44	-15.37	-49.29	-31.76	-86.44	1.02
	-44.60	-11.65	-35.21	-23.02	-61.74	-0.28
	-26.76	-7.94	-21.13	-14.29	-37.05	-1.59
	-8.92	-4.22	-7.04	-5.55	-12.35	-2.89
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.92	0.50	-7.04	-3.19	-12.35	4.19
	-26.76	-3.22	-21.13	-11.93	-37.05	5.49
	-44.60	-6.94	-35.21	-20.67	-61.74	6.79
	-62.44	-10.66	-49.29	-29.40	-86.44	8.09
	-80.28	-14.37	-63.38	-38.14	-111.14	9.39
	-98.12	-18.09	-77.46	-46.88	-135.84	10.69
	-115.97	-21.81	-91.55	-55.62	-160.53	12.00
	-133.81	-25.53	-105.63	-64.36	-185.23	13.30
	1.86	8.92	4.37	7.04	-0.65	12.35
4.50	1.88	8.94	4.39	7.06	-0.63	12.37
	-134.05	-30.52	-105.88	-66.97	-185.57	5.93
	-116.18	-26.77	-91.76	-58.20	-160.82	4.67
	-98.31	-23.02	-77.64	-49.43	-136.08	3.40
	-80.43	-19.27	-63.53	-40.66	-111.34	2.13
	-62.56	-15.51	-49.41	-31.89	-86.60	0.86
	-44.68	-11.76	-35.29	-23.12	-61.86	-0.41
	-26.81	-8.01	-21.18	-14.35	-37.11	-1.68
	-8.94	-4.26	-7.06	-5.58	-12.37	-2.94
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.94	0.51	-7.06	-3.19	-12.37	4.21
	-26.81	-3.24	-21.18	-11.96	-37.11	5.48
	-44.68	-6.99	-35.29	-20.73	-61.86	6.75

	-62.56	-10.74	-49.41	-29.51	-86.60	8.02
	-80.43	-14.50	-63.53	-38.28	-111.34	9.28
	-98.31	-18.25	-77.64	-47.05	-136.08	10.55
	-116.18	-22.00	-91.76	-55.82	-160.82	11.82
	-134.05	-25.75	-105.88	-64.59	-185.57	13.09
	1.88	8.94	4.39	7.06	-0.63	12.37

En la Tabla 24 se muestran las combinaciones de esfuerzos para las diagonales en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 24. Combinación de esfuerzos de las diagonales - 18 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)
0.50	69.70	490.19	219.02	378.09	-79.61	680.03
	61.61	432.52	193.31	333.61	-70.08	600.03
	53.52	374.85	167.60	289.13	-60.55	520.02
	45.43	317.18	141.88	244.65	-51.02	440.02
	37.34	259.51	116.17	200.16	-41.49	360.02
	29.25	201.84	90.46	155.68	-31.96	280.01
	21.16	144.17	64.75	111.20	-22.43	200.01
	13.07	86.50	39.03	66.72	-12.90	120.01
	4.98	28.83	13.32	22.24	-3.37	40.00
	2.97	27.46	11.80	21.18	-5.87	38.10
	10.67	82.39	36.29	63.55	-14.95	114.30
	18.38	137.32	60.78	105.92	-24.02	190.51
	26.09	192.25	85.28	148.29	-33.10	266.71
	33.79	247.18	109.77	190.66	-42.18	342.91
	41.50	302.11	134.26	233.02	-51.26	419.12
	49.21	357.04	158.75	275.39	-60.33	495.32
	56.91	411.97	183.24	317.76	-69.41	571.52
	64.62	466.90	207.73	360.13	-78.49	647.73
0.55	60.21	446.51	197.38	343.50	-76.95	619.58
	53.24	393.98	174.21	303.09	-67.73	546.69
	46.27	341.45	151.05	262.68	-58.51	473.80
	39.29	288.92	127.88	222.26	-49.29	400.90
	32.32	236.39	104.72	181.85	-40.08	328.01
	25.35	183.86	81.55	141.44	-30.86	255.12
	18.37	131.33	58.38	101.03	-21.64	182.23
	11.40	78.80	35.22	60.62	-12.42	109.34
	4.43	26.27	12.05	20.21	-3.20	36.45
	2.42	24.92	10.54	19.17	-5.71	34.58
	9.03	74.76	32.52	57.51	-14.46	103.73
	15.65	124.60	54.50	95.85	-23.20	172.89

	22.26	174.43	76.48	134.19	-31.95	242.05
	28.88	224.27	98.46	172.53	-40.70	311.20
	35.50	274.11	120.44	210.87	-49.44	380.36
	42.11	323.95	142.41	249.22	-58.19	449.52
	48.73	373.79	164.39	287.56	-66.94	518.67
	55.34	423.63	186.37	325.90	-75.68	587.83
0.60	49.55	407.59	176.67	312.10	-77.57	565.82
	43.84	359.64	155.95	275.38	-68.27	499.25
	38.12	311.69	135.22	238.66	-58.98	432.69
	32.40	263.74	114.49	201.95	-49.69	366.12
	26.68	215.78	93.76	165.23	-40.39	299.55
	20.96	167.83	73.03	128.51	-31.10	232.98
	15.25	119.88	52.30	91.79	-21.81	166.42
	9.53	71.93	31.57	55.08	-12.51	99.85
	3.81	23.98	10.84	18.36	-3.22	33.28
	1.80	22.66	9.35	17.35	-5.74	31.46
	7.21	67.99	28.94	52.06	-14.53	94.38
	12.61	113.32	48.54	86.77	-23.31	157.30
	18.02	158.64	68.13	121.47	-32.09	220.23
	23.42	203.97	87.72	156.18	-40.88	283.15
	28.83	249.29	107.32	190.89	-49.66	346.07
	34.23	294.62	126.91	225.59	-58.45	408.99
	39.64	339.95	146.51	260.30	-67.23	471.91
45.04	385.27	166.10	295.01	-76.02	534.84	
0.65	44.09	378.43	162.78	289.23	-74.61	525.42
	39.01	333.91	143.69	255.21	-65.66	463.60
	33.94	289.39	124.59	221.18	-56.72	401.79
	28.87	244.86	105.50	187.15	-47.77	339.98
	23.79	200.34	86.40	153.12	-38.82	278.16
	18.72	155.82	67.31	119.10	-29.87	216.35
	13.65	111.30	48.22	85.07	-20.93	154.53
	8.57	66.78	29.12	51.04	-11.98	92.72
	3.50	22.26	10.03	17.01	-3.03	30.91
	1.48	20.97	8.54	16.03	-5.57	29.11
	6.26	62.91	26.53	48.08	-14.00	87.34
	11.04	104.84	44.51	80.13	-22.43	145.57
	15.82	146.78	62.50	112.18	-30.86	203.79
	20.60	188.72	80.48	144.24	-39.29	262.02
	25.38	230.65	98.47	176.29	-47.72	320.25
	30.16	272.59	116.46	208.34	-56.14	378.47
	34.93	314.53	134.44	240.39	-64.57	436.70
39.71	356.46	152.43	272.45	-73.00	494.92	
0.70	37.83	352.04	149.37	268.20	-73.72	488.93
	33.49	310.63	131.85	236.65	-64.87	431.41
	29.15	269.21	114.34	205.09	-56.03	373.89

	24.82	227.79	96.82	173.54	-47.18	316.37
	20.48	186.38	79.31	141.99	-38.34	258.84
	16.15	144.96	61.79	110.44	-29.49	201.32
	11.81	103.54	44.28	78.88	-20.65	143.80
	7.48	62.13	26.76	47.33	-11.81	86.28
	3.14	20.71	9.24	15.78	-2.96	28.76
	1.12	19.44	7.77	14.81	-5.52	27.00
	5.19	58.33	24.21	44.44	-13.83	81.01
	9.26	97.22	40.66	74.06	-22.13	135.02
	13.33	136.10	57.10	103.69	-30.44	189.03
	17.40	174.99	73.55	133.31	-38.74	243.03
	21.47	213.88	89.99	162.94	-47.05	297.04
	25.54	252.76	106.44	192.57	-55.35	351.05
	29.61	291.65	122.88	222.19	-63.65	405.06
	33.69	330.54	139.33	251.82	-71.96	459.06
	36.23	333.17	141.63	253.92	-69.18	462.71
	32.08	293.98	125.02	224.05	-60.86	408.27
	27.93	254.78	108.42	194.18	-52.55	353.83
	23.79	215.58	91.82	164.30	-44.24	299.40
	19.64	176.39	75.21	134.43	-35.93	244.96
	15.50	137.19	58.61	104.56	-27.61	190.53
	11.35	97.99	42.00	74.68	-19.30	136.09
	7.21	58.80	25.40	44.81	-10.99	81.65
	3.06	19.60	8.80	14.94	-2.68	27.22
	1.02	18.35	7.31	13.98	-5.28	25.48
	4.90	55.04	22.85	41.95	-13.06	76.44
	8.78	91.73	38.40	69.91	-20.84	127.39
	12.66	128.42	53.94	97.87	-28.62	178.35
	16.54	165.12	69.48	125.84	-36.40	229.31
	20.42	201.81	85.03	153.80	-44.18	280.27
	24.30	238.50	100.57	181.77	-51.96	331.22
	28.18	275.19	116.11	209.73	-59.74	382.18
	32.06	311.88	131.65	237.70	-67.53	433.14
0.75	31.99	313.98	132.07	238.70	-68.09	436.15
	28.34	277.04	116.59	210.62	-59.91	384.83
	24.70	240.10	101.11	182.54	-51.72	333.52
	21.05	203.16	85.64	154.45	-43.53	282.21
	17.41	166.22	70.16	126.37	-35.34	230.90
	13.76	129.29	54.68	98.29	-27.16	179.59
	10.11	92.35	39.20	70.21	-18.97	128.28
	6.47	55.41	23.72	42.12	-10.78	76.97
	2.82	18.47	8.24	14.04	-2.59	25.66
	0.77	17.24	6.76	13.11	-5.22	23.95
	4.17	51.72	21.21	39.32	-12.86	71.85
	7.58	86.21	35.66	65.54	-20.51	119.75
0.80						

	10.98	120.69	50.11	91.75	-28.15	167.65
	14.38	155.17	64.56	117.97	-35.79	215.55
	17.79	189.65	79.01	144.18	-43.44	263.45
	21.19	224.14	93.46	170.40	-51.08	311.35
	24.59	258.62	107.91	196.62	-58.72	359.25
	28.00	293.10	122.36	222.83	-66.36	407.15
0.85	30.95	299.87	126.38	228.07	-64.49	416.54
	27.42	264.60	111.58	201.24	-56.73	367.53
	23.90	229.32	96.77	174.40	-48.96	318.53
	20.38	194.04	81.96	147.57	-41.19	269.52
	16.86	158.76	67.15	120.74	-33.43	220.52
	13.34	123.48	52.34	93.91	-25.66	171.52
	9.82	88.20	37.53	67.08	-17.90	122.51
	6.30	52.92	22.72	40.25	-10.13	73.51
	2.77	17.64	7.91	13.42	-2.36	24.50
	0.70	16.43	6.42	12.49	-5.03	22.82
	3.98	49.28	20.21	37.48	-12.26	68.45
	7.25	82.13	34.00	62.46	-19.49	114.08
	10.53	114.98	47.79	87.44	-26.73	159.71
	13.81	147.83	61.58	112.43	-33.96	205.34
	17.09	180.68	75.37	137.41	-41.19	250.97
	20.37	213.53	89.16	162.40	-48.42	296.60
	23.65	246.38	102.95	187.38	-55.65	342.23
	26.93	279.23	116.74	212.36	-62.88	387.86
0.90	27.40	284.85	118.76	216.09	-63.95	395.75
	24.30	251.33	104.85	190.67	-56.25	349.19
	21.20	217.82	90.93	165.25	-48.54	302.63
	18.09	184.31	77.02	139.82	-40.84	256.08
	14.99	150.80	63.11	114.40	-33.13	209.52
	11.89	117.29	49.20	88.98	-25.43	162.96
	8.78	83.78	35.29	63.56	-17.72	116.40
	5.68	50.27	21.38	38.13	-10.02	69.84
	2.58	16.76	7.47	12.71	-2.31	23.28
	0.49	15.57	5.98	11.81	-5.01	21.63
	3.37	46.70	18.91	35.43	-12.17	64.88
	6.25	77.83	31.83	59.04	-19.33	108.13
	9.13	108.96	44.75	82.66	-26.48	151.38
	12.02	140.09	57.68	106.28	-33.64	194.64
	14.90	171.22	70.60	129.89	-40.80	237.89
	17.78	202.36	83.52	153.51	-47.96	281.14
	20.66	233.49	96.45	177.13	-55.12	324.40
	23.55	264.62	109.37	200.75	-62.28	367.65
0.95	26.72	274.00	114.46	207.95	-61.02	380.68
	23.70	241.77	101.06	183.48	-53.66	335.89
	20.68	209.53	87.65	159.02	-46.30	291.11

	17.66	177.30	74.25	134.55	-38.93	246.32
	14.64	145.06	60.84	110.09	-31.57	201.53
	11.62	112.83	47.44	85.63	-24.21	156.75
	8.59	80.59	34.03	61.16	-16.84	111.96
	5.57	48.35	20.63	36.70	-9.48	67.18
	2.55	16.12	7.22	12.23	-2.12	22.39
	0.43	14.94	5.73	11.34	-4.86	20.76
	3.24	44.83	18.16	34.02	-11.69	62.28
	6.04	74.71	30.58	56.70	-18.51	103.79
	8.84	104.59	43.01	79.38	-25.34	145.31
	11.64	134.48	55.44	102.06	-32.16	186.83
	14.44	164.36	67.86	124.74	-38.99	228.35
	17.24	194.25	80.29	147.42	-45.81	269.87
	20.04	224.13	92.72	170.10	-52.64	311.38
	22.84	254.01	105.15	192.78	-59.47	352.90
	26.00	264.24	110.52	200.58	-58.53	367.10
	23.06	233.15	97.58	176.99	-51.46	323.91
	20.13	202.06	84.64	153.39	-44.39	280.72
	17.19	170.98	71.70	129.79	-37.31	237.54
	14.26	139.89	58.76	106.19	-30.24	194.35
	11.33	108.80	45.82	82.59	-23.17	151.16
	8.39	77.72	32.88	59.00	-16.10	107.97
	5.46	46.63	19.94	35.40	-9.02	64.78
	2.52	15.54	7.00	11.80	-1.95	21.59
	0.38	14.38	5.50	10.92	-4.74	19.98
	3.09	43.15	17.47	32.75	-11.28	59.94
	5.81	71.91	29.45	54.59	-17.83	99.90
	8.52	100.68	41.42	76.42	-24.37	139.87
	11.24	129.44	53.39	98.26	-30.91	179.83
	13.95	158.20	65.37	120.09	-37.46	219.79
	16.67	186.97	77.34	141.93	-44.00	259.75
	19.38	215.73	89.31	163.76	-50.55	299.71
	22.10	244.50	101.29	185.60	-57.09	339.68
	24.02	254.18	105.67	192.67	-57.63	353.17
	21.32	224.28	93.30	170.00	-50.66	311.62
	18.62	194.37	80.94	147.34	-43.69	270.07
	15.92	164.47	68.57	124.67	-36.72	228.52
	13.22	134.57	56.20	102.00	-29.75	186.97
	10.52	104.66	43.83	79.34	-22.78	145.42
	7.82	74.76	31.46	56.67	-15.81	103.87
	5.12	44.86	19.09	34.00	-8.85	62.32
	2.42	14.95	6.72	11.33	-1.88	20.77
	0.26	13.81	5.22	10.47	-4.70	19.19
	2.75	41.43	16.64	31.41	-11.14	57.57
	5.25	69.06	28.07	52.35	-17.58	95.95

	7.74	96.68	39.50	73.29	-24.02	134.33
	10.23	124.30	50.92	94.22	-30.45	172.71
	12.73	151.93	62.35	115.16	-36.89	211.10
	15.22	179.55	73.77	136.10	-43.33	249.48
	17.72	207.17	85.20	157.04	-49.76	287.86
	20.21	234.80	96.62	177.98	-56.20	326.24
1.10	23.64	246.53	102.70	186.95	-55.43	342.53
	20.99	217.53	90.69	164.96	-48.71	302.23
	18.33	188.52	78.67	142.96	-42.00	261.93
	15.68	159.52	66.65	120.97	-35.29	221.64
	13.03	130.52	54.63	98.97	-28.58	181.34
	10.37	101.51	42.61	76.98	-21.86	141.04
	7.72	72.51	30.59	54.99	-15.15	100.74
	5.07	43.51	18.57	32.99	-8.44	60.45
	2.41	14.50	6.55	11.00	-1.72	20.15
	0.22	13.38	5.04	10.14	-4.60	18.58
	2.67	40.13	16.13	30.43	-10.79	55.75
	5.11	66.88	27.21	50.72	-16.98	92.92
	7.56	93.63	38.30	71.00	-23.18	130.09
	10.01	120.38	49.38	91.29	-29.37	167.26
	12.46	147.13	60.47	111.58	-35.56	204.43
	14.90	173.89	71.56	131.86	-41.75	241.60
	17.35	200.64	82.64	152.15	-47.94	278.77
	19.80	227.39	93.73	172.44	-54.13	315.94
1.15	23.31	239.65	100.04	181.81	-53.42	332.95
	20.70	211.45	88.34	160.42	-46.94	293.78
	18.08	183.26	76.63	139.03	-40.46	254.61
	15.47	155.07	64.93	117.64	-33.98	215.44
	12.86	126.87	53.22	96.25	-27.50	176.27
	10.25	98.68	41.52	74.86	-21.02	137.10
	7.63	70.48	29.81	53.47	-14.54	97.93
	5.02	42.29	18.11	32.08	-8.06	58.76
	2.41	14.10	6.40	10.69	-1.58	19.59
	0.19	12.99	4.88	9.85	-4.51	18.04
	2.59	38.96	15.66	29.55	-10.48	54.12
	5.00	64.93	26.45	49.26	-16.45	90.21
	7.41	90.90	37.23	68.96	-22.42	126.29
	9.81	116.87	48.01	88.66	-28.39	162.37
	12.22	142.84	58.79	108.36	-34.36	198.45
	14.62	168.81	69.57	128.07	-40.32	234.54
	17.03	194.78	80.36	147.77	-46.29	270.62
	19.44	220.75	91.14	167.47	-52.26	306.70
1.20	22.78	233.18	97.40	176.92	-51.84	323.97
	20.23	205.75	86.01	156.10	-45.54	285.86
	17.69	178.32	74.62	135.29	-39.25	247.74

	15.14	150.88	63.22	114.48	-32.95	209.63
	12.59	123.45	51.83	93.66	-26.65	171.52
	10.04	96.02	40.44	72.85	-20.36	133.40
	7.49	68.58	29.04	52.03	-14.06	95.29
	4.94	41.15	17.65	31.22	-7.76	57.17
	2.39	13.72	6.26	10.41	-1.47	19.06
	0.14	12.62	4.73	9.58	-4.44	17.53
	2.49	37.86	15.21	28.73	-10.24	52.60
	4.83	63.10	25.69	47.88	-16.03	87.67
	7.18	88.35	36.18	67.03	-21.82	122.74
	9.52	113.59	46.66	86.18	-27.62	157.81
	11.87	138.83	57.14	105.33	-33.41	192.88
	14.21	164.07	67.62	124.48	-39.20	227.95
	16.56	189.31	78.11	143.63	-45.00	263.02
	18.90	214.55	88.59	162.78	-50.79	298.09
1.25	22.55	227.56	95.25	172.72	-50.15	316.14
	20.03	200.79	84.11	152.40	-44.05	278.95
	17.51	174.02	72.97	132.08	-37.95	241.76
	14.99	147.24	61.83	111.76	-31.85	204.56
	12.47	120.47	50.70	91.44	-25.75	167.37
	9.96	93.70	39.56	71.12	-19.65	130.18
	7.44	66.93	28.42	50.80	-13.55	92.98
	4.92	40.16	17.28	30.48	-7.44	55.79
	2.40	13.39	6.14	10.16	-1.34	18.60
	0.11	12.30	4.60	9.34	-4.37	17.09
	2.43	36.91	14.84	28.02	-9.98	51.28
	4.74	61.52	25.08	46.70	-15.59	85.47
	7.06	86.13	35.31	65.37	-21.20	119.66
	9.38	110.74	45.55	84.05	-26.80	153.85
	11.69	135.35	55.79	102.73	-32.41	188.04
	14.01	159.96	66.03	121.41	-38.02	222.23
	16.32	184.56	76.27	140.09	-43.63	256.41
	18.64	209.17	86.51	158.77	-49.24	290.60
1.30	21.19	221.28	92.14	167.75	-49.76	307.46
	18.84	195.25	81.37	148.01	-43.70	271.29
	16.48	169.21	70.60	128.28	-37.64	235.11
	14.12	143.18	59.83	108.54	-31.58	198.94
	11.76	117.15	49.05	88.81	-25.53	162.77
	9.41	91.12	38.28	69.07	-19.47	126.60
	7.05	65.08	27.51	49.34	-13.41	90.43
	4.69	39.05	16.74	29.60	-7.35	54.26
	2.33	13.02	5.96	9.87	-1.30	18.09
	0.02	11.96	4.42	9.06	-4.37	16.61
	2.19	35.87	14.31	27.19	-9.94	49.83
	4.35	59.78	24.20	45.31	-15.50	83.05

	6.52	83.69	34.10	63.44	-21.06	116.28
	8.68	107.60	43.99	81.57	-26.63	149.50
	10.85	131.51	53.89	99.69	-32.19	182.72
	13.01	155.42	63.78	117.82	-37.75	215.94
	15.18	179.33	73.67	135.94	-43.32	249.16
	17.34	203.24	83.57	154.07	-48.88	282.38
1.35	21.06	216.65	90.41	164.31	-48.29	301.01
	18.72	191.16	79.84	144.98	-42.40	265.59
	16.38	165.67	69.27	125.65	-36.51	230.18
	14.04	140.18	58.71	106.32	-30.63	194.77
	11.70	114.70	48.14	86.99	-24.74	159.36
	9.36	89.21	37.57	67.66	-18.85	123.94
	7.02	63.72	27.00	48.33	-12.96	88.53
	4.68	38.23	16.44	29.00	-7.07	53.12
	2.34	12.74	5.87	9.67	-1.18	17.71
	0.00	11.70	4.31	8.87	-4.32	16.25
	2.14	35.09	14.01	26.61	-9.72	48.75
	4.29	58.48	23.71	44.35	-15.13	81.26
	6.44	81.88	33.41	62.10	-20.53	113.76
	8.59	105.27	43.11	79.84	-25.93	146.26
	10.73	128.66	52.81	97.58	-31.34	178.76
	12.88	152.06	62.50	115.32	-36.74	211.27
	15.03	175.45	72.20	133.06	-42.15	243.77
	17.18	198.84	81.90	150.81	-47.55	276.27
1.40	20.95	212.41	88.83	161.17	-46.93	295.11
	18.63	187.42	78.45	142.20	-41.20	260.39
	16.30	162.43	68.07	123.24	-35.47	225.67
	13.98	137.44	57.69	104.28	-29.73	190.95
	11.65	112.45	47.31	85.32	-24.00	156.24
	9.33	87.46	36.93	66.36	-18.27	121.52
	7.00	62.47	26.55	47.40	-12.54	86.80
	4.68	37.48	16.17	28.44	-6.81	52.08
	2.35	12.49	5.79	9.48	-1.08	17.36
	-0.03	11.46	4.21	8.70	-4.27	15.92
	2.11	34.39	13.74	26.09	-9.52	47.77
	4.24	57.31	23.26	43.48	-14.78	79.62
	6.37	80.23	32.78	60.88	-20.04	111.47
	8.50	103.16	42.30	78.27	-25.30	143.32
	10.64	126.08	51.83	95.66	-30.55	175.17
	12.77	149.00	61.35	113.05	-35.81	207.02
	14.90	171.93	70.87	130.45	-41.07	238.86
	17.03	194.85	80.39	147.84	-46.32	270.71
1.45	20.87	208.53	87.40	158.29	-45.66	289.71
	18.56	184.00	77.19	139.67	-40.07	255.63
	16.24	159.47	66.97	121.05	-34.49	221.55

	13.93	134.93	56.76	102.42	-28.90	187.46
	11.62	110.40	46.55	83.80	-23.32	153.38
	9.30	85.87	36.34	65.18	-17.73	119.29
	6.99	61.33	26.13	46.56	-12.15	85.21
	4.68	36.80	15.92	27.93	-6.56	51.13
	2.37	12.27	5.71	9.31	-0.98	17.04
	-0.05	11.25	4.13	8.54	-4.22	15.63
	2.07	33.74	13.49	25.61	-9.34	46.88
	4.19	56.24	22.85	42.69	-14.47	78.13
	6.31	78.73	32.21	59.77	-19.59	109.38
	8.43	101.23	41.58	76.84	-24.71	140.64
	10.56	123.73	50.94	93.92	-29.83	171.89
	12.68	146.22	60.30	110.99	-34.95	203.14
	14.80	168.72	69.67	128.07	-40.07	234.40
	16.92	191.21	79.03	145.14	-45.19	265.65
1.50	20.81	204.98	86.09	155.66	-44.47	284.76
	18.50	180.86	76.03	137.35	-39.02	251.26
	16.20	156.75	65.98	119.03	-33.58	217.76
	13.90	132.63	55.92	100.72	-28.13	184.25
	11.59	108.52	45.87	82.41	-22.68	150.75
	9.29	84.40	35.81	64.09	-17.23	117.25
	6.99	60.29	25.75	45.78	-11.78	83.75
	4.68	36.17	15.70	27.47	-6.33	50.25
	2.38	12.06	5.64	9.16	-0.88	16.75
	-0.07	11.05	4.05	8.39	-4.19	15.35
	2.04	33.16	13.26	25.18	-9.18	46.06
	4.15	55.26	22.48	41.97	-14.17	76.77
	6.27	77.37	31.70	58.75	-19.17	107.48
	8.38	99.47	40.92	75.54	-24.16	138.19
	10.49	121.58	50.13	92.33	-29.16	168.90
	12.60	143.68	59.35	109.11	-34.15	199.61
	14.71	165.79	68.57	125.90	-39.15	230.31
	16.82	187.89	77.79	142.68	-44.14	261.02
1.55	20.77	201.70	84.90	153.24	-43.36	280.20
	18.47	177.97	74.98	135.21	-38.04	247.23
	16.17	154.24	65.07	117.18	-32.72	214.27
	13.88	130.51	55.15	99.16	-27.40	181.31
	11.58	106.78	45.24	81.13	-22.08	148.34
	9.28	83.05	35.32	63.10	-16.75	115.38
	6.99	59.32	25.41	45.07	-11.43	82.41
	4.69	35.59	15.50	27.04	-6.11	49.45
	2.40	11.86	5.58	9.01	-0.79	16.48
	-0.09	10.87	3.97	8.26	-4.15	15.11
	2.01	32.62	13.06	24.78	-9.03	45.32
	4.12	54.37	22.14	41.31	-13.91	75.53

	6.22	76.12	31.23	57.83	-18.78	105.74
	8.33	97.86	40.32	74.35	-23.66	135.95
	10.43	119.61	49.40	90.87	-28.54	166.16
	12.54	141.36	58.49	107.39	-33.41	196.37
	14.64	163.10	67.58	123.92	-38.29	226.58
	16.75	184.85	76.66	140.44	-43.17	256.79
1.60	20.75	198.69	83.81	151.02	-42.32	276.00
	18.45	175.31	74.02	133.25	-37.11	243.53
	16.16	151.94	64.24	115.48	-31.91	211.06
	13.87	128.56	54.45	97.72	-26.71	178.59
	11.58	105.19	44.67	79.95	-21.51	146.12
	9.29	81.81	34.88	62.18	-16.31	113.65
	7.00	58.44	25.10	44.42	-11.11	81.18
	4.70	35.06	15.31	26.65	-5.90	48.71
	2.41	11.69	5.53	8.88	-0.70	16.24
	-0.11	10.71	3.90	8.14	-4.12	14.88
	1.99	32.13	12.87	24.42	-8.89	44.63
	4.09	53.55	21.84	40.70	-13.66	74.39
	6.19	74.97	30.80	56.98	-18.42	104.14
	8.29	96.39	39.77	73.26	-23.19	133.90
	10.39	117.81	48.74	89.54	-27.96	163.65
	12.49	139.23	57.70	105.82	-32.72	193.40
	14.59	160.65	66.67	122.10	-37.49	223.16
	16.69	182.07	75.64	138.38	-42.26	252.91
1.65	20.74	195.90	82.81	148.97	-41.33	272.12
	18.45	172.86	73.15	131.44	-36.24	240.11
	16.16	149.81	63.48	113.92	-31.15	208.09
	13.87	126.76	53.81	96.39	-26.06	176.08
	11.59	103.71	44.14	78.86	-20.97	144.06
	9.30	80.67	34.48	61.34	-15.88	112.05
	7.01	57.62	24.81	43.81	-10.80	80.04
	4.72	34.57	15.14	26.29	-5.71	48.02
	2.43	11.52	5.48	8.76	-0.62	16.01
	-0.13	10.56	3.84	8.03	-4.10	14.67
	1.97	31.68	12.70	24.09	-8.76	44.00
	4.07	52.80	21.56	40.15	-13.43	73.34
	6.16	73.92	30.41	56.21	-18.09	102.68
	8.26	95.04	39.27	72.27	-22.75	132.01
	10.36	116.15	48.13	88.33	-27.42	161.35
	12.45	137.27	56.99	104.38	-32.08	190.68
	14.55	158.39	65.85	120.44	-36.74	220.02
	16.65	179.51	74.71	136.50	-41.41	249.35
1.70	20.75	193.33	81.90	147.07	-40.40	268.54
	18.46	170.58	72.34	129.77	-35.42	236.94
	16.17	147.84	62.78	112.47	-30.43	205.35

	13.89	125.10	53.23	95.17	-25.45	173.76
	11.60	102.35	43.67	77.86	-20.47	142.17
	9.31	79.61	34.11	60.56	-15.48	110.57
	7.02	56.86	24.55	43.26	-10.50	78.98
	4.74	34.12	14.99	25.95	-5.52	47.39
	2.45	11.37	5.43	8.65	-0.53	15.80
	-0.15	10.42	3.78	7.93	-4.08	14.48
	1.95	31.26	12.54	23.78	-8.64	43.43
	4.04	52.11	21.30	39.64	-13.21	72.38
	6.14	72.95	30.06	55.50	-17.78	101.33
	8.24	93.79	38.82	71.35	-22.34	130.28
	10.33	114.64	47.58	87.21	-26.91	159.23
	12.43	135.48	56.34	103.06	-31.48	188.18
	14.53	156.32	65.10	118.92	-36.04	217.13
	16.62	177.16	73.86	134.78	-40.61	246.08
1.75	20.77	190.95	81.07	145.33	-39.52	265.22
	18.49	168.48	71.61	128.23	-34.64	234.01
	16.20	146.02	62.15	111.13	-29.75	202.81
	13.91	123.55	52.69	94.04	-24.87	171.61
	11.62	101.09	43.23	76.94	-19.99	140.41
	9.33	78.63	33.77	59.84	-15.10	109.21
	7.05	56.16	24.31	42.74	-10.22	78.00
	4.76	33.70	14.85	25.65	-5.34	46.80
	2.47	11.23	5.39	8.55	-0.45	15.60
	-0.17	10.29	3.73	7.83	-4.06	14.30
	1.93	30.88	12.40	23.50	-8.53	42.89
	4.03	51.47	21.07	39.17	-13.01	71.49
	6.13	72.06	29.74	54.84	-17.49	100.09
	8.22	92.65	38.41	70.51	-21.96	128.68
	10.32	113.24	47.08	86.18	-26.44	157.28
	12.42	133.83	55.74	101.85	-30.91	185.88
	14.51	154.41	64.41	117.52	-35.39	214.47
	16.61	175.00	73.08	133.19	-39.86	243.07
1.80	20.81	188.74	80.30	143.71	-38.68	262.14
	18.52	166.53	70.93	126.80	-33.89	231.30
	16.23	144.33	61.57	109.90	-29.11	200.46
	13.94	122.12	52.20	92.99	-24.32	169.62
	11.65	99.92	42.83	76.08	-19.53	138.78
	9.36	77.72	33.46	59.17	-14.74	107.94
	7.07	55.51	24.09	42.27	-9.95	77.10
	4.78	33.31	14.72	25.36	-5.16	46.26
	2.49	11.10	5.36	8.45	-0.38	15.42
	-0.18	10.18	3.68	7.75	-4.04	14.14
	1.92	30.53	12.26	23.25	-8.43	42.41
	4.01	50.89	20.85	38.75	-12.82	70.68

	6.11	71.24	29.44	54.24	-17.21	98.95
	8.21	91.59	38.03	69.74	-21.60	127.22
	10.31	111.95	46.62	85.24	-25.99	155.49
	12.41	132.30	55.20	100.74	-30.38	183.76
	14.51	152.66	63.79	116.24	-34.77	212.03
	16.61	173.01	72.38	131.74	-39.16	240.30
1.85	20.86	186.69	79.60	142.21	-37.89	259.28
	18.56	164.72	70.32	125.48	-33.19	228.77
	16.27	142.76	61.03	108.75	-28.49	198.27
	13.98	120.80	51.75	92.02	-23.79	167.77
	11.69	98.83	42.46	75.29	-19.09	137.26
	9.39	76.87	33.18	58.56	-14.39	106.76
	7.10	54.91	23.89	41.83	-9.70	76.26
	4.81	32.94	14.61	25.10	-5.00	45.75
	2.51	10.98	5.33	8.37	-0.30	15.25
	-0.20	10.07	3.63	7.67	-4.03	13.98
	1.90	30.21	12.14	23.01	-8.34	41.95
	4.00	50.35	20.66	38.35	-12.65	69.92
	6.11	70.48	29.17	53.69	-16.96	97.89
	8.21	90.62	37.68	69.03	-21.26	125.86
	10.31	110.76	46.20	84.37	-25.57	153.83
	12.42	130.90	54.71	99.71	-29.88	181.80
	14.52	151.04	63.22	115.06	-34.19	209.77
	16.62	171.18	71.74	130.40	-38.49	237.74
1.90	20.92	184.78	78.96	140.82	-37.13	256.62
	18.62	163.04	69.75	124.25	-32.51	226.43
	16.32	141.30	60.54	107.69	-27.90	196.24
	14.02	119.56	51.34	91.12	-23.29	166.05
	11.73	97.82	42.13	74.55	-18.68	135.86
	9.43	76.09	32.92	57.99	-14.06	105.67
	7.13	54.35	23.71	41.42	-9.45	75.48
	4.83	32.61	14.50	24.85	-4.84	45.29
	2.54	10.87	5.30	8.28	-0.23	15.10
	-0.22	9.97	3.59	7.60	-4.02	13.85
	1.89	29.91	12.03	22.79	-8.25	41.54
	4.00	49.85	20.48	37.99	-12.48	69.23
	6.10	69.79	28.92	53.18	-16.71	96.92
	8.21	89.72	37.37	68.38	-20.94	124.61
	10.32	109.66	45.81	83.58	-25.17	152.30
	12.43	129.60	54.26	98.77	-29.40	179.99
	14.53	149.54	62.70	113.97	-33.64	207.68
	16.64	169.48	71.15	129.16	-37.87	235.37
1.95	20.98	183.01	78.37	139.53	-36.40	254.15
	18.68	161.48	69.23	123.12	-31.87	224.25
	16.38	139.95	60.09	106.70	-27.34	194.35

	14.08	118.42	50.96	90.29	-22.81	164.45
	11.77	96.89	41.82	73.87	-18.28	134.55
	9.47	75.36	32.68	57.45	-13.75	104.65
	7.17	53.83	23.55	41.04	-9.22	74.75
	4.86	32.30	14.41	24.62	-4.69	44.85
	2.56	10.77	5.27	8.21	-0.15	14.95
	-0.23	9.88	3.55	7.53	-4.01	13.72
	1.88	29.63	11.93	22.59	-8.17	41.15
	3.99	49.39	20.31	37.65	-12.33	68.58
	6.11	69.14	28.70	52.72	-16.49	96.02
	8.22	88.89	37.08	67.78	-20.64	123.45
	10.33	108.65	45.46	82.84	-24.80	150.88
	12.45	128.40	53.85	97.90	-28.96	178.32
	14.56	148.16	62.23	112.96	-33.11	205.75
	16.67	167.91	70.61	128.02	-37.27	233.19
2.00	21.80	182.09	78.57	139.07	-34.96	252.84
	19.40	160.67	69.41	122.71	-30.60	223.09
	17.01	139.25	60.25	106.35	-26.23	193.35
	14.61	117.82	51.09	89.99	-21.87	163.60
	12.21	96.40	41.93	73.63	-17.50	133.86
	9.82	74.98	32.77	57.27	-13.14	104.11
	7.42	53.56	23.61	40.90	-8.77	74.36
	5.02	32.13	14.45	24.54	-4.41	44.62
	2.63	10.71	5.29	8.18	-0.04	14.87
	-0.21	9.83	3.55	7.51	-3.97	13.65
	1.99	29.50	11.96	22.53	-7.98	40.96
	4.19	49.16	20.36	37.55	-11.98	68.26
	6.39	68.82	28.77	52.56	-15.99	95.56
	8.59	88.49	37.18	67.58	-20.00	122.87
	10.79	108.15	45.58	82.60	-24.00	150.17
	12.99	127.81	53.99	97.62	-28.01	177.47
	15.19	147.48	62.40	112.64	-32.02	204.78
17.39	167.14	70.81	127.66	-36.03	232.08	
2.05	21.89	180.55	78.08	137.96	-34.29	250.69
	19.49	159.31	68.98	121.73	-30.00	221.20
	17.08	138.07	59.88	105.50	-25.71	191.71
	14.68	116.83	50.78	89.27	-21.42	162.21
	12.27	95.59	41.68	73.04	-17.13	132.72
	9.87	74.35	32.58	56.81	-12.84	103.23
	7.46	53.10	23.47	40.58	-8.55	73.73
	5.06	31.86	14.37	24.35	-4.26	44.24
	2.65	10.62	5.27	8.12	0.03	14.75
	-0.23	9.75	3.51	7.45	-3.97	13.54
	1.98	29.26	11.87	22.36	-7.91	40.63
	4.19	48.77	20.23	37.26	-11.85	67.71

	6.40	68.27	28.58	52.17	-15.79	94.79
	8.61	87.78	36.94	67.07	-19.72	121.88
	10.82	107.28	45.30	81.98	-23.66	148.96
	13.02	126.79	53.65	96.88	-27.60	176.04
	15.23	146.30	62.01	111.79	-31.54	203.13
	17.44	165.80	70.37	126.69	-35.48	230.21
2.10	21.99	179.12	77.63	136.93	-33.65	248.69
	19.58	158.05	68.58	120.82	-29.43	219.43
	17.16	136.97	59.53	104.71	-25.21	190.18
	14.75	115.90	50.49	88.60	-20.99	160.92
	12.33	94.83	41.44	72.49	-16.78	131.66
	9.92	73.76	32.40	56.38	-12.56	102.40
	7.51	52.68	23.35	40.27	-8.34	73.14
	5.09	31.61	14.30	24.16	-4.12	43.89
	2.68	10.54	5.26	8.05	0.10	14.63
	-0.24	9.68	3.48	7.40	-3.96	13.44
	1.98	29.04	11.79	22.20	-7.84	40.32
	4.19	48.40	20.10	37.00	-11.71	67.20
	6.41	67.76	28.41	51.80	-15.59	94.08
	8.63	87.12	36.72	66.60	-19.47	120.96
	10.85	106.48	45.03	81.40	-23.34	147.84
	13.06	125.84	53.35	96.20	-27.22	174.72
	15.28	145.20	61.66	111.00	-31.09	201.60
	17.50	164.56	69.97	125.80	-34.97	228.48
	2.15	22.10	177.78	77.22	135.97	-33.02
19.67		156.87	68.22	119.97	-28.88	217.78
17.25		135.95	59.22	103.98	-24.73	188.75
14.82		115.04	50.23	87.98	-20.58	159.71
12.40		94.12	41.23	71.98	-16.43	130.67
9.98		73.20	32.23	55.99	-12.28	101.63
7.55		52.29	23.24	39.99	-8.13	72.59
5.13		31.37	14.24	23.99	-3.98	43.56
2.70		10.46	5.24	8.00	0.16	14.52
-0.26		9.61	3.45	7.35	-3.96	13.35
1.97		28.84	11.72	22.06	-7.78	40.04
4.20		48.06	19.99	36.76	-11.59	66.73
6.43		67.29	28.26	51.46	-15.40	93.42
8.65		86.52	36.53	66.17	-19.22	120.11
10.88		105.74	44.80	80.87	-23.03	146.80
13.11		124.97	53.07	95.58	-26.84	173.50
15.34		144.19	61.34	110.28	-30.66	200.19
17.57		163.42	69.60	124.98	-34.47	226.88
2.20		22.21	176.53	76.84	135.08	-32.42
	19.77	155.76	67.89	119.19	-28.34	216.24
	17.34	134.99	58.94	103.29	-24.26	187.41

	14.90	114.23	49.99	87.40	-20.18	158.58
	12.47	93.46	41.04	71.51	-16.10	129.75
	10.03	72.69	32.09	55.62	-12.02	100.91
	7.60	51.92	23.13	39.73	-7.93	72.08
	5.17	31.15	14.18	23.84	-3.85	43.25
	2.73	10.38	5.23	7.95	0.23	14.42
	-0.27	9.55	3.42	7.31	-3.97	13.26
	1.97	28.65	11.65	21.92	-7.72	39.78
	4.21	47.75	19.88	36.54	-11.47	66.29
	6.44	66.85	28.12	51.15	-15.23	92.81
	8.68	85.95	36.35	65.77	-18.98	119.33
	10.92	105.05	44.58	80.38	-22.74	145.84
	13.16	124.15	52.81	95.00	-26.49	172.36
	15.40	143.25	61.04	109.61	-30.24	198.88
	17.64	162.35	69.28	124.23	-34.00	225.39
2.25	22.33	175.36	76.50	134.24	-31.84	243.44
	19.88	154.73	67.59	118.45	-27.83	214.80
	17.43	134.10	58.68	102.66	-23.81	186.16
	14.99	113.47	49.77	86.86	-19.79	157.52
	12.54	92.84	40.86	71.07	-15.77	128.88
	10.10	72.21	31.95	55.28	-11.76	100.24
	7.65	51.58	23.04	39.48	-7.74	71.60
	5.20	30.95	14.13	23.69	-3.72	42.96
	2.76	10.32	5.22	7.90	0.29	14.32
	-0.29	9.49	3.39	7.27	-3.97	13.18
	1.96	28.48	11.59	21.80	-7.66	39.53
	4.21	47.46	19.79	36.33	-11.36	65.89
	6.47	66.45	27.99	50.87	-15.06	92.24
	8.72	85.43	36.19	65.40	-18.75	118.60
	10.97	104.41	44.39	79.93	-22.45	144.95
	13.22	123.40	52.58	94.47	-26.15	171.31
	15.47	142.38	60.78	109.00	-29.85	197.66
	17.72	161.37	68.98	123.53	-33.54	224.02
2.30	23.22	175.03	76.95	134.23	-30.52	242.95
	20.67	154.44	67.99	118.44	-26.65	214.36
	18.12	133.85	59.03	102.65	-22.79	185.78
	15.57	113.26	50.07	86.86	-18.92	157.20
	13.03	92.66	41.11	71.07	-15.06	128.62
	10.48	72.07	32.14	55.27	-11.19	100.04
	7.93	51.48	23.18	39.48	-7.33	71.45
	5.38	30.89	14.22	23.69	-3.46	42.87
	2.83	10.30	5.26	7.90	0.40	14.29
	-0.26	9.48	3.41	7.27	-3.93	13.16
	2.09	28.44	11.66	21.81	-7.49	39.47
	4.43	47.40	19.91	36.35	-11.05	65.79

	6.78	66.36	28.16	50.89	-14.61	92.11
	9.12	85.32	36.41	65.43	-18.16	118.42
	11.47	104.28	44.67	79.97	-21.72	144.74
	13.82	123.24	52.92	94.51	-25.28	171.06
	16.16	142.20	61.17	109.05	-28.84	197.37
	18.51	161.16	69.42	123.59	-32.40	223.69
2.35	23.35	174.01	76.68	133.52	-29.97	241.52
	20.79	153.54	67.75	117.81	-26.16	213.11
	18.23	133.07	58.82	102.10	-22.36	184.69
	15.67	112.60	49.89	86.39	-18.55	156.28
	13.11	92.12	40.96	70.69	-14.75	127.86
	10.55	71.65	32.04	54.98	-10.94	99.45
	7.98	51.18	23.11	39.27	-7.14	71.04
	5.42	30.71	14.18	23.56	-3.34	42.62
	2.86	10.24	5.25	7.85	0.47	14.21
	-0.28	9.43	3.38	7.24	-3.94	13.09
	2.09	28.29	11.61	21.71	-7.44	39.27
	4.45	47.15	19.83	36.18	-10.94	65.44
	6.81	66.01	28.06	50.65	-14.45	91.62
	9.17	84.87	36.28	65.12	-17.95	117.80
	11.53	103.73	44.51	79.59	-21.46	143.98
	13.89	122.59	52.73	94.06	-24.96	170.15
	16.25	141.46	60.96	108.54	-28.47	196.33
	18.61	160.32	69.18	123.01	-31.97	222.51
2.40	23.50	173.06	76.42	132.85	-29.43	240.19
	20.92	152.70	67.53	117.22	-25.69	211.93
	18.35	132.34	58.63	101.59	-21.94	183.67
	15.77	111.98	49.73	85.96	-18.20	155.41
	13.19	91.62	40.84	70.33	-14.45	127.16
	10.62	71.26	31.94	54.70	-10.71	98.90
	8.04	50.90	23.04	39.07	-6.96	70.64
	5.47	30.54	14.15	23.44	-3.21	42.39
	2.89	10.18	5.25	7.81	0.53	14.13
	-0.29	9.38	3.36	7.20	-3.94	13.02
	2.09	28.15	11.56	21.61	-7.39	39.07
	4.46	46.92	19.77	36.02	-10.85	65.12
	6.83	65.69	27.97	50.43	-14.30	91.17
	9.21	84.46	36.17	64.84	-17.75	117.22
	11.58	103.23	44.37	79.24	-21.20	143.27
	13.96	122.00	52.57	93.65	-24.66	169.32
	16.33	140.77	60.77	108.06	-28.11	195.37
	18.71	159.54	68.98	122.47	-31.56	221.42
2.45	23.64	172.17	76.20	132.23	-28.91	238.94
	21.05	151.91	67.33	116.67	-25.22	210.83
	18.46	131.66	58.46	101.11	-21.53	182.72

	15.87	111.40	49.59	85.56	-17.85	154.61
	13.28	91.15	40.72	70.00	-14.16	126.50
	10.69	70.89	31.85	54.45	-10.47	98.39
	8.10	50.64	22.98	38.89	-6.78	70.28
	5.51	30.38	14.12	23.33	-3.10	42.17
	2.92	10.13	5.25	7.78	0.59	14.06
	-0.30	9.34	3.34	7.17	-3.95	12.96
	2.09	28.03	11.52	21.52	-7.35	38.89
	4.48	46.71	19.70	35.87	-10.75	64.82
	6.87	65.39	27.88	50.22	-14.15	90.75
	9.26	84.08	36.07	64.57	-17.56	116.68
	11.65	102.76	44.25	78.92	-20.96	142.61
	14.03	121.44	52.43	93.27	-24.36	168.54
	16.42	140.13	60.61	107.62	-27.76	194.47
	18.81	158.81	68.79	121.97	-31.16	220.40
2.50	23.80	171.33	76.00	131.65	-28.40	237.77
	21.19	151.17	67.15	116.16	-24.77	209.79
	18.59	131.02	58.31	100.67	-21.14	181.82
	15.98	110.86	49.47	85.18	-17.51	153.85
	13.37	90.70	40.62	69.70	-13.87	125.88
	10.77	70.55	31.78	54.21	-10.24	97.90
	8.16	50.39	22.93	38.72	-6.61	69.93
	5.56	30.23	14.09	23.23	-2.98	41.96
	2.95	10.08	5.25	7.74	0.65	13.99
	-0.32	9.30	3.32	7.15	-3.96	12.91
	2.09	27.91	11.48	21.44	-7.31	38.73
	4.49	46.51	19.65	35.74	-10.66	64.55
	6.90	65.12	27.81	50.03	-14.01	90.37
	9.30	83.72	35.97	64.33	-17.37	116.19
	11.71	102.33	44.14	78.63	-20.72	142.01
	14.11	120.93	52.30	92.92	-24.07	167.82
	16.52	139.54	60.46	107.22	-27.42	193.64
18.93	158.14	68.63	121.51	-30.78	219.46	
2.55	24.03	170.63	75.90	131.19	-27.83	236.78
	21.40	150.55	67.07	115.75	-24.26	208.92
	18.77	130.48	58.23	100.32	-20.69	181.06
	16.14	110.41	49.40	84.89	-17.12	153.21
	13.51	90.33	40.57	69.45	-13.55	125.35
	10.88	70.26	31.74	54.02	-9.99	97.50
	8.25	50.18	22.91	38.58	-6.42	69.64
	5.62	30.11	14.08	23.15	-2.85	41.78
	2.98	10.04	5.25	7.72	0.72	13.93
	-0.33	9.27	3.31	7.13	-3.96	12.86
	2.10	27.81	11.46	21.38	-7.26	38.59
	4.53	46.35	19.62	35.64	-10.55	64.32

	6.96	64.89	27.78	49.89	-13.85	90.05
	9.39	83.43	35.93	64.15	-17.14	115.78
	11.82	101.97	44.09	78.40	-20.44	141.51
	14.25	120.51	52.24	92.66	-23.74	167.23
	16.68	139.05	60.40	106.91	-27.03	192.96
	19.11	157.59	68.56	121.17	-30.33	218.69
2.60	24.20	169.89	75.74	130.69	-27.35	235.75
	21.55	149.91	66.93	115.31	-23.83	208.01
	18.90	129.92	58.12	99.94	-20.31	180.28
	16.25	109.93	49.30	84.56	-16.80	152.54
	13.61	89.94	40.49	69.19	-13.28	124.81
	10.96	69.96	31.68	53.81	-9.77	97.07
	8.31	49.97	22.87	38.44	-6.25	69.34
	5.66	29.98	14.06	23.06	-2.74	41.60
	3.02	9.99	5.25	7.69	0.78	13.87
	-0.34	9.24	3.29	7.10	-3.97	12.82
	2.11	27.71	11.43	21.31	-7.22	38.45
	4.55	46.18	19.58	35.52	-10.47	64.08
	7.00	64.65	27.72	49.73	-13.72	89.72
	9.45	83.13	35.86	63.94	-16.97	115.35
	11.89	101.60	44.00	78.15	-20.22	140.98
	14.34	120.07	52.15	92.36	-23.47	166.62
	16.79	138.55	60.29	106.57	-26.71	192.25
19.23	157.02	68.43	120.78	-29.96	217.88	
2.65	24.36	169.21	75.60	130.22	-26.87	234.79
	21.70	149.30	66.80	114.90	-23.41	207.16
	19.03	129.39	58.01	99.58	-19.94	179.54
	16.37	109.49	49.22	84.26	-16.48	151.92
	13.70	89.58	40.43	68.94	-13.02	124.30
	11.04	69.67	31.63	53.62	-9.55	96.68
	8.38	49.77	22.84	38.30	-6.09	69.05
	5.71	29.86	14.05	22.98	-2.62	41.43
	3.05	9.95	5.25	7.66	0.84	13.81
	-0.35	9.21	3.27	7.08	-3.98	12.77
	2.11	27.62	11.40	21.25	-7.18	38.32
	4.57	46.03	19.54	35.42	-10.39	63.86
	7.04	64.44	27.67	49.59	-13.59	89.41
	9.50	82.85	35.80	63.76	-16.80	114.95
	11.97	101.26	43.93	77.93	-20.00	140.50
	14.43	119.67	52.06	92.09	-23.20	166.04
	16.89	138.08	60.20	106.26	-26.41	191.59
19.36	156.49	68.33	120.43	-29.61	217.14	
2.70	24.53	168.56	75.47	129.79	-26.41	233.88
	21.85	148.73	66.70	114.52	-23.00	206.37
	19.17	128.90	57.92	99.25	-19.58	178.85

	16.49	109.07	49.14	83.98	-16.17	151.34
	13.81	89.24	40.37	68.71	-12.76	123.82
	11.12	69.41	31.59	53.44	-9.34	96.30
	8.44	49.58	22.81	38.17	-5.93	68.79
	5.76	29.75	14.03	22.90	-2.51	41.27
	3.08	9.92	5.26	7.63	0.90	13.76
	-0.37	9.18	3.26	7.07	-3.99	12.73
	2.11	27.53	11.38	21.20	-7.15	38.20
	4.60	45.88	19.50	35.33	-10.31	63.66
	7.08	64.23	27.63	49.46	-13.47	89.12
	9.56	82.59	35.75	63.59	-16.63	114.59
	12.04	100.94	43.87	77.72	-19.79	140.05
	14.52	119.29	51.99	91.85	-22.95	165.52
	17.00	137.64	60.12	105.98	-26.11	190.98
	19.49	155.99	68.24	120.11	-29.27	216.44
	24.71	167.96	75.37	129.39	-25.96	233.04
	22.01	148.20	66.61	114.16	-22.59	205.62
	19.31	128.44	57.84	98.94	-19.23	178.20
	16.61	108.68	49.08	83.72	-15.86	150.79
	13.91	88.92	40.32	68.50	-12.50	123.37
	11.21	69.16	31.55	53.28	-9.13	95.96
	8.51	49.40	22.79	38.05	-5.77	68.54
	5.81	29.64	14.03	22.83	-2.41	41.12
	3.11	9.88	5.26	7.61	0.96	13.71
	-0.38	9.15	3.24	7.05	-4.00	12.69
	2.12	27.45	11.36	21.14	-7.12	38.08
	4.62	45.75	19.47	35.24	-10.23	63.47
	7.12	64.05	27.59	49.34	-13.35	88.86
	9.62	82.34	35.70	63.43	-16.47	114.25
	12.12	100.64	43.82	77.53	-19.58	139.64
	14.62	118.94	51.93	91.63	-22.70	165.03
	17.12	137.24	60.05	105.72	-25.81	190.42
	19.62	155.54	68.16	119.82	-28.93	215.80
	24.88	167.40	75.28	129.01	-25.51	232.24
	22.17	147.70	66.53	113.83	-22.20	204.92
	19.45	128.01	57.78	98.66	-18.88	177.60
	16.73	108.31	49.02	83.48	-15.56	150.27
	14.01	88.62	40.27	68.30	-12.25	122.95
	11.30	68.93	31.52	53.12	-8.93	95.63
	8.58	49.23	22.77	37.94	-5.61	68.31
	5.86	29.54	14.02	22.77	-2.30	40.98
	3.14	9.85	5.27	7.59	1.02	13.66
	-0.39	9.12	3.23	7.03	-4.02	12.66
	2.12	27.37	11.34	21.10	-7.09	37.98
	4.64	45.62	19.45	35.16	-10.16	63.30

	7.16	63.87	27.56	49.23	-13.24	88.62
	9.68	82.12	35.67	63.29	-16.31	113.94
	12.20	100.37	43.78	77.36	-19.38	139.26
	14.72	118.62	51.89	91.42	-22.45	164.57
	17.23	136.87	60.00	105.49	-25.53	189.89
	19.75	155.12	68.11	119.55	-28.60	215.21
2.85	25.06	166.87	75.20	128.67	-25.08	231.50
	22.33	147.24	66.46	113.53	-21.81	204.26
	19.59	127.60	57.72	98.39	-18.54	177.03
	16.86	107.97	48.98	83.25	-15.27	149.79
	14.12	88.34	40.24	68.12	-12.00	122.56
	11.38	68.71	31.50	52.98	-8.73	95.32
	8.65	49.08	22.76	37.84	-5.46	68.09
	5.91	29.45	14.02	22.71	-2.19	40.85
	3.18	9.82	5.27	7.57	1.08	13.62
	-0.41	9.10	3.21	7.02	-4.03	12.63
	2.13	27.31	11.32	21.05	-7.06	37.88
	4.67	45.51	19.43	35.09	-10.09	63.14
	7.20	63.71	27.53	49.13	-13.12	88.39
	9.74	81.92	35.64	63.16	-16.15	113.65
	12.28	100.12	43.74	77.20	-19.19	138.90
	14.82	118.33	51.85	91.24	-22.22	164.16
	17.35	136.53	59.95	105.27	-25.25	189.41
	19.89	154.73	68.06	119.31	-28.28	214.67
2.90	25.25	166.37	75.14	128.34	-24.65	230.80
	22.49	146.80	66.41	113.24	-21.42	203.65
	19.74	127.22	57.68	98.15	-18.20	176.49
	16.98	107.65	48.94	83.05	-14.98	149.34
	14.23	88.08	40.21	67.95	-11.76	122.19
	11.47	68.51	31.48	52.85	-8.53	95.04
	8.72	48.93	22.75	37.75	-5.31	67.88
	5.96	29.36	14.01	22.65	-2.09	40.73
	3.21	9.79	5.28	7.55	1.13	13.58
	-0.42	9.08	3.20	7.01	-4.04	12.60
	2.14	27.24	11.31	21.02	-7.03	37.79
	4.69	45.41	19.41	35.03	-10.02	62.99
	7.25	63.57	27.51	49.04	-13.01	88.18
	9.81	81.73	35.61	63.05	-16.00	113.38
	12.36	99.89	43.72	77.06	-18.99	138.58
	14.92	118.05	51.82	91.07	-21.99	163.77
	17.47	136.22	59.92	105.08	-24.98	188.97
	20.03	154.38	68.03	119.09	-27.97	214.16
2.95	25.43	165.91	75.09	128.05	-24.23	230.15
	22.66	146.39	66.37	112.98	-21.05	203.07
	19.89	126.87	57.64	97.92	-17.87	176.00

	17.11	107.35	48.92	82.85	-14.69	148.92
	14.34	87.83	40.19	67.79	-11.52	121.84
	11.56	68.31	31.47	52.73	-8.34	94.77
	8.79	48.80	22.74	37.66	-5.16	67.69
	6.02	29.28	14.02	22.60	-1.99	40.61
	3.24	9.76	5.29	7.53	1.19	13.54
	-0.43	9.06	3.19	6.99	-4.06	12.57
	2.14	27.19	11.29	20.98	-7.01	37.71
	4.72	45.31	19.39	34.97	-9.96	62.85
	7.29	63.43	27.50	48.96	-12.91	87.99
	9.87	81.56	35.60	62.94	-15.86	113.13
	12.45	99.68	43.70	76.93	-18.81	138.28
	15.02	117.80	51.80	90.92	-21.76	163.42
	17.60	135.93	59.90	104.91	-24.71	188.56
	20.17	154.05	68.01	118.90	-27.66	213.70
	26.57	166.42	76.00	128.72	-22.87	230.81
	23.66	146.84	67.17	113.57	-19.85	203.65
	20.76	127.26	58.34	98.43	-16.83	176.50
	17.85	107.68	49.51	83.29	-13.80	149.35
	14.95	88.10	40.68	68.14	-10.78	122.19
	12.04	68.52	31.85	53.00	-7.76	95.04
	9.14	48.95	23.02	37.86	-4.74	67.88
	6.23	29.37	14.19	22.71	-1.72	40.73
	3.33	9.79	5.35	7.57	1.31	13.58
	-0.39	9.10	3.23	7.04	-4.02	12.62
	2.30	27.29	11.44	21.11	-6.83	37.85
	5.00	45.48	19.64	35.18	-9.64	63.08
	7.70	63.67	27.85	49.25	-12.44	88.31
	10.40	81.86	36.05	63.32	-15.25	113.54
	13.10	100.05	44.26	77.39	-18.06	138.77
	15.80	118.24	52.46	91.46	-20.87	164.00
	18.50	136.43	60.67	105.53	-23.67	189.23
	21.20	154.63	68.87	119.60	-26.48	214.46
	26.77	166.02	75.99	128.47	-22.45	230.25
	23.84	146.49	67.16	113.36	-19.48	203.16
	20.92	126.96	58.33	98.24	-16.50	176.07
	17.99	107.42	49.50	83.13	-13.52	148.98
	15.07	87.89	40.68	68.01	-10.54	121.90
	12.14	68.36	31.85	52.90	-7.57	94.81
	9.21	48.83	23.02	37.79	-4.59	67.72
	6.29	29.30	14.19	22.67	-1.61	40.63
	3.36	9.77	5.36	7.56	1.36	13.54
	-0.41	9.08	3.22	7.03	-4.03	12.59
	2.31	27.24	11.43	21.08	-6.80	37.78
	5.03	45.40	19.64	35.13	-9.57	62.96

	7.75	63.56	27.84	49.18	-12.34	88.15
	10.47	81.72	36.05	63.24	-15.11	113.33
	13.19	99.88	44.26	77.29	-17.87	138.52
	15.91	118.04	52.47	91.34	-20.64	163.70
	18.63	136.20	60.67	105.40	-23.41	188.89
	21.35	154.36	68.88	119.45	-26.18	214.08
3.10	26.97	165.65	75.98	128.25	-22.04	229.72
	24.02	146.16	67.16	113.16	-19.11	202.70
	21.08	126.67	58.33	98.07	-16.18	175.67
	18.13	107.18	49.50	82.98	-13.24	148.64
	15.18	87.70	40.68	67.90	-10.31	121.62
	12.24	68.21	31.85	52.81	-7.38	94.59
	9.29	48.72	23.03	37.72	-4.45	67.57
	6.34	29.23	14.20	22.63	-1.51	40.54
	3.40	9.74	5.38	7.54	1.42	13.51
	-0.42	9.07	3.21	7.02	-4.05	12.57
	2.32	27.20	11.42	21.06	-6.78	37.72
	5.06	45.33	19.63	35.09	-9.51	62.86
	7.80	63.46	27.84	49.13	-12.24	88.01
	10.55	81.59	36.06	63.17	-14.96	113.15
	13.29	99.72	44.27	77.21	-17.69	138.30
	16.03	117.85	52.48	91.24	-20.42	163.44
	18.77	135.98	60.69	105.28	-23.15	188.58
	21.51	154.12	68.90	119.32	-25.88	213.73
3.15	27.18	165.30	75.99	128.04	-21.64	229.23
	24.21	145.86	67.16	112.98	-18.75	202.27
	21.24	126.41	58.34	97.91	-15.86	175.30
	18.27	106.96	49.51	82.85	-12.97	148.33
	15.30	87.51	40.69	67.79	-10.08	121.36
	12.34	68.07	31.86	52.72	-7.19	94.39
	9.37	48.62	23.04	37.66	-4.30	67.42
	6.40	29.17	14.21	22.60	-1.41	40.45
	3.43	9.72	5.39	7.53	1.48	13.48
	-0.43	9.05	3.20	7.01	-4.07	12.55
	2.33	27.16	11.42	21.04	-6.76	37.66
	5.09	45.26	19.63	35.06	-9.45	62.77
	7.86	63.37	27.85	49.08	-12.14	87.88
	10.62	81.47	36.07	63.11	-14.83	112.98
	13.38	99.58	44.28	77.13	-17.51	138.09
	16.15	117.68	52.50	91.16	-20.20	163.20
	18.91	135.79	60.71	105.18	-22.89	188.31
	21.67	153.89	68.93	119.21	-25.58	213.41
3.20	27.38	164.98	76.01	127.85	-21.24	228.78
	24.39	145.57	67.18	112.81	-18.39	201.86
	21.40	126.16	58.35	97.77	-15.54	174.95

	18.42	106.75	49.53	82.73	-12.70	148.03
	15.43	87.34	40.70	67.69	-9.85	121.12
	12.44	67.93	31.88	52.65	-7.00	94.20
	9.45	48.52	23.05	37.60	-4.16	67.29
	6.46	29.11	14.22	22.56	-1.31	40.37
	3.47	9.70	5.40	7.52	1.53	13.46
	-0.44	9.04	3.19	7.01	-4.08	12.54
	2.34	27.12	11.41	21.02	-6.73	37.61
	5.13	45.20	19.64	35.03	-9.38	62.68
	7.91	63.29	27.86	49.04	-12.04	87.76
	10.70	81.37	36.08	63.06	-14.69	112.83
	13.48	99.45	44.30	77.07	-17.34	137.91
	16.27	117.53	52.52	91.08	-19.99	162.98
	19.05	135.61	60.75	105.10	-22.64	188.05
	21.84	153.70	68.97	119.11	-25.30	213.13
3.25	28.58	165.67	77.02	128.67	-19.86	229.68
	25.45	146.18	68.07	113.53	-17.17	202.66
	22.32	126.69	59.13	98.39	-14.48	175.64
	19.20	107.20	50.19	83.26	-11.79	148.62
	16.07	87.71	41.24	68.12	-9.10	121.60
	12.94	68.22	32.30	52.98	-6.42	94.58
	9.81	48.73	23.36	37.84	-3.73	67.55
	6.69	29.24	14.41	22.71	-1.04	40.53
	3.56	9.75	5.47	7.57	1.65	13.51
	-0.40	9.08	3.24	7.06	-4.04	12.59
	2.51	27.25	11.58	21.17	-6.55	37.78
	5.43	45.42	19.91	35.28	-9.06	62.97
	8.34	63.59	28.25	49.39	-11.56	88.16
	11.26	81.76	36.59	63.50	-14.07	113.35
	14.17	99.93	44.92	77.61	-16.57	138.54
	17.09	118.10	53.26	91.72	-19.08	163.73
	20.01	136.27	61.60	105.83	-21.59	188.92
22.92	154.43	69.93	119.95	-24.09	214.11	
3.30	28.80	165.40	77.06	128.53	-19.46	229.30
	25.65	145.94	68.11	113.40	-16.81	202.32
	22.50	126.48	59.17	98.28	-14.17	175.35
	19.35	107.02	50.22	83.16	-11.52	148.37
	16.20	87.56	41.27	68.04	-8.88	121.39
	13.05	68.11	32.32	52.92	-6.23	94.42
	9.90	48.65	23.38	37.80	-3.58	67.44
	6.75	29.19	14.43	22.68	-0.94	40.46
	3.60	9.73	5.48	7.56	1.71	13.49
	-0.41	9.08	3.23	7.05	-4.06	12.58
	2.52	27.23	11.58	21.16	-6.53	37.75
	5.46	45.38	19.92	35.26	-9.00	62.91

	8.40	63.53	28.27	49.37	-11.46	88.07
	11.34	81.68	36.61	63.47	-13.93	113.24
	14.28	99.83	44.96	77.57	-16.40	138.40
	17.22	117.98	53.31	91.68	-18.87	163.56
	20.16	136.13	61.65	105.78	-21.33	188.73
	23.10	154.28	70.00	119.89	-23.80	213.89
3.35	29.02	165.15	77.11	128.40	-19.06	228.94
	25.85	145.72	68.16	113.29	-16.46	202.01
	22.68	126.29	59.21	98.18	-13.86	175.08
	19.50	106.86	50.26	83.08	-11.25	148.14
	16.33	87.43	41.30	67.97	-8.65	121.21
	13.15	68.00	32.35	52.87	-6.05	94.27
	9.98	48.57	23.40	37.76	-3.44	67.34
	6.80	29.14	14.45	22.66	-0.84	40.40
	3.63	9.71	5.50	7.55	1.76	13.47
	-0.43	9.07	3.22	7.05	-4.08	12.57
	2.54	27.20	11.58	21.15	-6.51	37.71
	5.50	45.34	19.93	35.25	-8.94	62.85
	8.46	63.47	28.29	49.35	-11.37	87.99
	11.42	81.61	36.65	63.45	-13.80	113.13
	14.39	99.74	45.00	77.55	-16.23	138.27
	17.35	117.88	53.36	91.64	-18.66	163.41
	20.31	136.01	61.71	105.74	-21.09	188.55
23.28	154.15	70.07	119.84	-23.52	213.69	
3.40	29.25	164.92	77.17	128.28	-18.67	228.62
	26.05	145.52	68.21	113.19	-16.11	201.72
	22.85	126.12	59.26	98.10	-13.55	174.82
	19.66	106.71	50.30	83.01	-10.99	147.93
	16.46	87.31	41.34	67.91	-8.43	121.03
	13.26	67.91	32.38	52.82	-5.86	94.14
	10.06	48.51	23.43	37.73	-3.30	67.24
	6.86	29.10	14.47	22.64	-0.74	40.34
	3.67	9.70	5.51	7.55	1.82	13.45
	-0.44	9.06	3.22	7.05	-4.09	12.56
	2.55	27.18	11.58	21.14	-6.49	37.68
	5.54	45.30	19.95	35.24	-8.88	62.80
	8.52	63.42	28.32	49.33	-11.27	87.92
	11.51	81.55	36.68	63.43	-13.66	113.04
	14.50	99.67	45.05	77.52	-16.06	138.16
	17.48	117.79	53.41	91.62	-18.45	163.28
	20.47	135.91	61.78	105.72	-20.84	188.40
23.46	154.03	70.15	119.81	-23.23	213.52	
3.45	29.57	164.80	77.33	128.27	-18.19	228.44
	26.34	145.41	68.36	113.18	-15.68	201.56
	23.10	126.03	59.38	98.09	-13.17	174.69

	19.87	106.64	50.41	83.00	-10.66	147.81
	16.64	87.25	41.43	67.91	-8.16	120.94
	13.41	67.86	32.46	52.82	-5.65	94.06
	10.17	48.47	23.48	37.73	-3.14	67.19
	6.94	29.08	14.51	22.64	-0.63	40.31
	3.71	9.69	5.53	7.55	1.88	13.44
	-0.44	9.06	3.22	7.05	-4.10	12.56
	2.58	27.18	11.60	21.16	-6.45	37.67
	5.60	45.30	19.99	35.26	-8.80	62.79
	8.62	63.42	28.38	49.36	-11.14	87.91
	11.64	81.54	36.77	63.47	-13.49	113.02
	14.66	99.66	45.15	77.57	-15.83	138.14
	17.68	117.78	53.54	91.67	-18.18	163.26
	20.70	135.90	61.93	105.78	-20.52	188.37
	23.73	154.02	70.32	119.88	-22.87	213.49
3.50	29.80	164.61	77.41	128.19	-17.81	228.16
	26.54	145.24	68.43	113.11	-15.34	201.32
	23.29	125.88	59.44	98.02	-12.87	174.48
	20.03	106.51	50.46	82.94	-10.40	147.63
	16.77	87.15	41.48	67.86	-7.93	120.79
	13.52	67.78	32.50	52.78	-5.47	93.95
	10.26	48.41	23.51	37.70	-3.00	67.11
	7.00	29.05	14.53	22.62	-0.53	40.26
	3.74	9.68	5.55	7.54	1.94	13.42
	-0.46	9.05	3.21	7.05	-4.12	12.55
	2.59	27.16	11.61	21.15	-6.43	37.65
	5.64	45.27	20.01	35.26	-8.74	62.75
	8.68	63.38	28.41	49.36	-11.05	87.86
	11.73	81.49	36.81	63.46	-13.36	112.96
	14.77	99.60	45.21	77.56	-15.66	138.06
	17.82	117.71	53.61	91.67	-17.97	163.16
	20.86	135.82	62.01	105.77	-20.28	188.26
23.91	153.93	70.41	119.87	-22.59	213.36	
3.55	30.03	164.43	77.49	128.11	-17.43	227.91
	26.75	145.09	68.50	113.04	-15.00	201.09
	23.47	125.74	59.51	97.97	-12.57	174.28
	20.19	106.40	50.52	82.90	-10.14	147.47
	16.91	87.05	41.53	67.82	-7.72	120.66
	13.63	67.71	32.54	52.75	-5.29	93.84
	10.34	48.36	23.55	37.68	-2.86	67.03
	7.06	29.02	14.56	22.61	-0.43	40.22
	3.78	9.67	5.57	7.54	2.00	13.41
	-0.47	9.05	3.21	7.05	-4.14	12.54
	2.60	27.15	11.62	21.15	-6.41	37.63
	5.67	45.25	20.03	35.26	-8.68	62.72

	8.74	63.35	28.44	49.36	-10.96	87.81
	11.81	81.46	36.86	63.46	-13.23	112.90
	14.89	99.56	45.27	77.57	-15.50	137.99
	17.96	117.66	53.68	91.67	-17.77	163.08
	21.03	135.76	62.10	105.77	-20.04	188.17
	24.10	153.86	70.51	119.88	-22.32	213.25
3.60	30.27	164.27	77.58	128.05	-17.05	227.67
	26.96	144.95	68.58	112.99	-14.66	200.89
	23.65	125.62	59.58	97.92	-12.28	174.10
	20.35	106.29	50.58	82.86	-9.89	147.32
	17.04	86.97	41.58	67.79	-7.50	120.53
	13.74	67.64	32.58	52.73	-5.11	93.75
	10.43	48.32	23.58	37.66	-2.72	66.96
	7.12	28.99	14.58	22.60	-0.34	40.18
	3.82	9.66	5.58	7.53	2.05	13.39
	-0.48	9.05	3.20	7.05	-4.16	12.54
	2.62	27.14	11.63	21.16	-6.39	37.62
	5.71	45.24	20.05	35.26	-8.63	62.70
	8.81	63.33	28.48	49.37	-10.86	87.77
	11.90	81.43	36.91	63.47	-13.10	112.85
	15.00	99.52	45.33	77.58	-15.34	137.93
	18.09	117.62	53.76	91.68	-17.57	163.01
	21.19	135.71	62.19	105.79	-19.81	188.09
24.28	153.80	70.61	119.89	-22.04	213.17	
3.65	30.50	164.13	77.68	128.00	-16.68	227.46
	27.17	144.82	68.67	112.94	-14.33	200.70
	23.84	125.51	59.66	97.88	-11.98	173.94
	20.51	106.20	50.65	82.82	-9.63	147.18
	17.18	86.89	41.64	67.76	-7.28	120.42
	13.85	67.58	32.63	52.71	-4.94	93.66
	10.52	48.27	23.62	37.65	-2.59	66.90
	7.19	28.96	14.61	22.59	-0.24	40.14
	3.85	9.65	5.60	7.53	2.11	13.38
	-0.49	9.04	3.20	7.05	-4.18	12.53
	2.63	27.13	11.64	21.16	-6.38	37.60
	5.75	45.22	20.08	35.27	-8.58	62.67
	8.87	63.31	28.52	49.38	-10.78	87.74
	11.99	81.40	36.96	63.48	-12.98	112.81
	15.11	99.49	45.40	77.59	-15.18	137.88
	18.23	117.58	53.84	91.70	-17.37	162.95
	21.35	135.67	62.28	105.81	-19.57	188.02
24.47	153.76	70.72	119.91	-21.77	213.09	
3.70	30.74	164.00	77.78	127.96	-16.31	227.27
	27.38	144.70	68.76	112.91	-14.00	200.53
	24.03	125.41	59.74	97.85	-11.69	173.79

	20.67	106.12	50.72	82.80	-9.38	147.06
	17.31	86.82	41.70	67.74	-7.07	120.32
	13.96	67.53	32.68	52.69	-4.76	93.58
	10.60	48.23	23.66	37.64	-2.45	66.84
	7.25	28.94	14.64	22.58	-0.14	40.11
	3.89	9.65	5.62	7.53	2.17	13.37
	-0.50	9.04	3.19	7.06	-4.19	12.53
	2.64	27.13	11.65	21.17	-6.36	37.60
	5.79	45.21	20.10	35.28	-8.52	62.66
	8.94	63.30	28.56	49.39	-10.69	87.72
	12.08	81.39	37.01	63.50	-12.85	112.79
	15.23	99.47	45.47	77.61	-15.02	137.85
	18.37	117.56	53.93	91.73	-17.18	162.91
	21.52	135.64	62.38	105.84	-19.34	187.98
	24.67	153.73	70.84	119.95	-21.51	213.04
	30.98	163.88	77.89	127.93	-15.94	227.10
	27.60	144.60	68.86	112.88	-13.67	200.38
	24.21	125.32	59.83	97.83	-11.40	173.66
	20.83	106.04	50.79	82.78	-9.13	146.95
	17.45	86.76	41.76	67.73	-6.86	120.23
	14.07	67.48	32.73	52.68	-4.59	93.51
	10.69	48.20	23.70	37.63	-2.32	66.79
	7.31	28.92	14.67	22.58	-0.05	40.08
	3.93	9.64	5.63	7.53	2.22	13.36
	-0.51	9.04	3.19	7.06	-4.21	12.53
	2.66	27.12	11.66	21.17	-6.34	37.59
	5.83	45.21	20.13	35.29	-8.47	62.65
	9.00	63.29	28.60	49.41	-10.60	87.71
	12.17	81.37	37.07	63.52	-12.73	112.77
	15.34	99.46	45.54	77.64	-14.86	137.83
	18.51	117.54	54.02	91.76	-16.99	162.88
	21.69	135.62	62.49	105.87	-19.11	187.94
	24.86	153.71	70.96	119.99	-21.24	213.00
	31.22	163.77	78.00	127.91	-15.57	226.94
	27.81	144.51	68.96	112.86	-13.34	200.24
	24.40	125.24	59.92	97.81	-11.11	173.54
	21.00	105.97	50.87	82.77	-8.88	146.84
	17.59	86.70	41.83	67.72	-6.65	120.15
	14.18	67.44	32.78	52.67	-4.42	93.45
	10.78	48.17	23.74	37.62	-2.18	66.75
	7.37	28.90	14.70	22.57	0.05	40.05
	3.97	9.63	5.65	7.52	2.28	13.35
	-0.52	9.04	3.18	7.06	-4.23	12.53
	2.67	27.12	11.67	21.18	-6.32	37.58
	5.87	45.21	20.16	35.31	-8.42	62.64

	9.07	63.29	28.65	49.43	-10.51	87.70
	12.26	81.37	37.13	63.55	-12.61	112.75
	15.46	99.45	45.62	77.67	-14.70	137.81
	18.66	117.53	54.11	91.80	-16.79	162.87
	21.85	135.62	62.60	105.92	-18.89	187.92
	25.05	153.70	71.08	120.04	-20.98	212.98
3.85	32.65	164.88	79.32	129.10	-14.01	228.42
	29.08	145.48	70.12	113.91	-11.96	201.54
	25.51	126.08	60.92	98.72	-9.91	174.67
	21.94	106.68	51.73	83.53	-7.86	147.80
	18.36	87.29	42.53	68.34	-5.80	120.93
	14.79	67.89	33.33	53.16	-3.75	94.05
	11.22	48.49	24.14	37.97	-1.70	67.18
	7.65	29.10	14.94	22.78	0.35	40.31
	4.07	9.70	5.74	7.59	2.40	13.44
	-0.47	9.11	3.24	7.13	-4.18	12.62
	2.89	27.32	11.88	21.39	-6.11	37.85
	6.24	45.54	20.52	35.65	-8.04	63.08
	9.59	63.75	29.15	49.92	-9.96	88.32
	12.95	81.96	37.79	64.18	-11.89	113.55
	16.30	100.18	46.43	78.44	-13.82	138.79
	19.66	118.39	55.06	92.70	-15.74	164.02
	23.01	136.61	63.70	106.96	-17.67	189.25
26.37	154.82	72.34	121.22	-19.60	214.49	
3.90	32.91	164.81	79.45	129.11	-13.64	228.31
	29.31	145.42	70.24	113.92	-11.63	201.45
	25.71	126.03	61.03	98.73	-9.62	174.59
	22.11	106.64	51.82	83.54	-7.60	147.73
	18.51	87.25	42.61	68.35	-5.59	120.87
	14.91	67.86	33.40	53.16	-3.58	94.01
	11.31	48.47	24.18	37.97	-1.56	67.15
	7.71	29.08	14.97	22.78	0.45	40.29
	4.11	9.69	5.76	7.59	2.46	13.43
	-0.48	9.11	3.24	7.14	-4.20	12.62
	2.90	27.33	11.90	21.41	-6.09	37.85
	6.28	45.54	20.55	35.68	-7.98	63.09
	9.67	63.76	29.21	49.95	-9.88	88.33
	13.05	81.98	37.86	64.22	-11.77	113.56
	16.43	100.19	46.52	78.49	-13.66	138.80
	19.81	118.41	55.17	92.76	-15.55	164.04
	23.19	136.63	63.82	107.03	-17.44	189.27
26.57	154.84	72.48	121.30	-19.33	214.51	
3.95	33.16	164.75	79.59	129.12	-13.27	228.22
	29.53	145.37	70.37	113.93	-11.30	201.37
	25.91	125.98	61.14	98.74	-9.32	174.52

	22.28	106.60	51.91	83.55	-7.35	147.67
	18.66	87.22	42.69	68.36	-5.38	120.82
	15.03	67.84	33.46	53.17	-3.40	93.97
	11.40	48.46	24.23	37.98	-1.43	67.12
	7.78	29.07	15.01	22.79	0.54	40.27
	4.15	9.69	5.78	7.60	2.52	13.42
	-0.49	9.11	3.24	7.14	-4.22	12.62
	2.92	27.33	11.91	21.42	-6.08	37.86
	6.33	45.55	20.59	35.70	-7.93	63.10
	9.74	63.77	29.26	49.98	-9.79	88.34
	13.15	81.99	37.93	64.26	-11.64	113.58
	16.56	100.21	46.61	78.54	-13.50	138.82
	19.96	118.43	55.28	92.82	-15.35	164.06
	23.37	136.65	63.95	107.10	-17.21	189.30
	26.78	154.87	72.63	121.39	-19.06	214.54
	33.42	164.70	79.74	129.15	-12.90	228.14
	29.76	145.32	70.50	113.96	-10.97	201.30
	26.11	125.95	61.25	98.76	-9.03	174.46
	22.46	106.57	52.01	83.57	-7.10	147.62
	18.80	87.19	42.77	68.37	-5.17	120.78
	15.15	67.82	33.53	53.18	-3.23	93.94
	11.49	48.44	24.29	37.99	-1.30	67.10
	7.84	29.06	15.04	22.79	0.64	40.26
	4.19	9.69	5.80	7.60	2.57	13.42
	-0.50	9.11	3.24	7.15	-4.24	12.62
	2.94	27.34	11.93	21.44	-6.06	37.87
	6.37	45.56	20.62	35.73	-7.88	63.11
	9.81	63.79	29.32	50.02	-9.70	88.36
	13.25	82.01	38.01	64.31	-11.52	113.60
	16.68	100.24	46.70	78.60	-13.34	138.85
	20.12	118.46	55.39	92.89	-15.16	164.10
	23.56	136.69	64.09	107.19	-16.98	189.34
	26.99	154.91	72.78	121.48	-18.80	214.59
	33.67	164.66	79.89	129.18	-12.54	228.08
	29.99	145.29	70.63	113.99	-10.64	201.25
	26.31	125.92	61.37	98.79	-8.75	174.41
	22.63	106.55	52.11	83.59	-6.85	147.58
	18.95	87.17	42.85	68.39	-4.95	120.75
	15.27	67.80	33.60	53.19	-3.06	93.91
	11.59	48.43	24.34	38.00	-1.16	67.08
	7.91	29.06	15.08	22.80	0.73	40.25
	4.23	9.69	5.82	7.60	2.63	13.42
	-0.51	9.12	3.23	7.15	-4.26	12.63
	2.95	27.35	11.95	21.45	-6.04	37.88
	6.42	45.58	20.66	35.76	-7.83	63.13

	9.88	63.81	29.37	50.06	-9.61	88.38
	13.34	82.04	38.09	64.36	-11.40	113.64
	16.81	100.27	46.80	78.67	-13.18	138.89
	20.27	118.50	55.51	92.97	-14.96	164.14
	23.74	136.73	64.22	107.27	-16.75	189.39
	27.20	154.96	72.94	121.57	-18.53	214.64
4.10	35.18	165.88	81.29	130.47	-10.93	229.71
	31.33	146.37	71.87	115.12	-9.22	202.69
	27.47	126.85	62.44	99.77	-7.50	175.66
	23.61	107.34	53.02	84.42	-5.79	148.64
	19.76	87.82	43.60	69.07	-4.08	121.61
	15.90	68.30	34.18	53.72	-2.37	94.59
	12.05	48.79	24.76	38.37	-0.66	67.56
	8.19	29.27	15.34	23.02	1.05	40.54
	4.34	9.76	5.92	7.67	2.76	13.51
	-0.45	9.19	3.30	7.23	-4.21	12.72
	3.18	27.56	12.17	21.68	-5.82	38.17
	6.81	45.94	21.04	36.13	-7.43	63.62
	10.44	64.32	29.92	50.59	-9.04	89.06
	14.07	82.69	38.79	65.04	-10.65	114.51
	17.70	101.07	47.66	79.49	-12.26	139.96
	21.33	119.44	56.53	93.95	-13.87	165.41
	24.96	137.82	65.40	108.40	-15.48	190.85
28.59	156.20	74.27	122.85	-17.09	216.30	
4.15	35.45	165.87	81.46	130.53	-10.55	229.69
	31.57	146.36	72.02	115.18	-8.88	202.67
	27.68	126.85	62.58	99.82	-7.21	175.65
	23.80	107.33	53.14	84.46	-5.54	148.62
	19.91	87.82	43.70	69.11	-3.87	121.60
	16.03	68.30	34.26	53.75	-2.20	94.58
	12.15	48.79	24.82	38.39	-0.53	67.56
	8.26	29.27	15.38	23.04	1.14	40.53
	4.38	9.76	5.94	7.68	2.82	13.51
	-0.46	9.19	3.30	7.23	-4.23	12.73
	3.20	27.58	12.19	21.70	-5.80	38.19
	6.86	45.96	21.09	36.17	-7.38	63.65
	10.51	64.35	29.98	50.64	-8.95	89.10
	14.17	82.73	38.87	65.10	-10.53	114.56
	17.83	101.12	47.77	79.57	-12.10	140.02
	21.49	119.50	56.66	94.04	-13.67	165.48
	25.15	137.89	65.55	108.51	-15.25	190.94
28.81	156.27	74.45	122.98	-16.82	216.39	
4.20	35.72	165.88	81.63	130.60	-10.18	229.68
	31.81	146.36	72.17	115.24	-8.55	202.66
	27.90	126.85	62.71	99.87	-6.92	175.64

	23.98	107.33	53.25	84.51	-5.29	148.62
	20.07	87.82	43.79	69.14	-3.65	121.60
	16.16	68.30	34.33	53.78	-2.02	94.58
	12.24	48.79	24.88	38.41	-0.39	67.55
	8.33	29.27	15.42	23.05	1.24	40.53
	4.42	9.76	5.96	7.68	2.87	13.51
	-0.47	9.20	3.30	7.24	-4.25	12.74
	3.22	27.59	12.21	21.72	-5.78	38.21
	6.90	45.99	21.13	36.21	-7.32	63.68
	10.59	64.38	30.05	50.69	-8.86	89.15
	14.28	82.78	38.96	65.17	-10.40	114.62
	17.97	101.17	47.88	79.66	-11.94	140.09
	21.66	119.57	56.79	94.14	-13.48	165.56
	25.35	137.96	65.71	108.62	-15.01	191.03
	29.04	156.35	74.62	123.10	-16.55	216.50
4.25	36.00	165.89	81.80	130.67	-9.81	229.69
	32.05	146.37	72.33	115.30	-8.22	202.67
	28.11	126.85	62.85	99.93	-6.63	175.64
	24.17	107.34	53.37	84.55	-5.03	148.62
	20.23	87.82	43.89	69.18	-3.44	121.60
	16.28	68.31	34.41	53.81	-1.85	94.58
	12.34	48.79	24.94	38.43	-0.26	67.56
	8.40	29.27	15.46	23.06	1.34	40.53
	4.46	9.76	5.98	7.69	2.93	13.51
	-0.48	9.20	3.30	7.25	-4.26	12.74
	3.23	27.61	12.24	21.75	-5.77	38.23
	6.95	46.01	21.17	36.25	-7.27	63.71
	10.67	64.42	30.11	50.74	-8.77	89.19
	14.39	82.82	39.05	65.24	-10.27	114.68
	18.11	101.23	47.99	79.74	-11.78	140.16
	21.82	119.63	56.93	94.24	-13.28	165.65
	25.54	138.04	65.87	108.74	-14.78	191.13
29.26	156.44	74.80	123.24	-16.28	216.61	
4.30	36.38	166.01	82.09	130.86	-9.34	229.85
	32.39	146.48	72.58	115.47	-7.80	202.81
	28.41	126.95	63.07	100.07	-6.26	175.77
	24.42	107.42	53.56	84.67	-4.71	148.73
	20.44	87.89	44.05	69.28	-3.17	121.68
	16.45	68.36	34.54	53.88	-1.63	94.64
	12.47	48.83	25.03	38.49	-0.09	67.60
	8.49	29.30	15.52	23.09	1.45	40.56
	4.50	9.77	6.01	7.70	2.99	13.52
	-0.49	9.21	3.30	7.26	-4.28	12.76
	3.27	27.64	12.28	21.79	-5.73	38.27
	7.03	46.07	21.25	36.32	-7.19	63.79

	10.79	64.50	30.22	50.84	-8.64	89.30
	14.55	82.93	39.20	65.37	-10.10	114.82
	18.31	101.36	48.17	79.90	-11.55	140.33
	22.07	119.79	57.14	94.42	-13.00	165.85
	25.83	138.21	66.12	108.95	-14.46	191.36
	29.59	156.64	75.09	123.48	-15.91	216.88
4.35	36.65	166.04	82.27	130.95	-8.97	229.88
	32.64	146.51	72.74	115.54	-7.47	202.83
	28.62	126.97	63.21	100.14	-5.97	175.79
	24.61	107.44	53.68	84.73	-4.46	148.74
	20.60	87.90	44.15	69.33	-2.96	121.70
	16.58	68.37	34.62	53.92	-1.46	94.65
	12.57	48.84	25.09	38.51	0.04	67.61
	8.55	29.30	15.56	23.11	1.55	40.57
	4.54	9.77	6.03	7.70	3.05	13.52
	-0.50	9.22	3.30	7.27	-4.30	12.77
	3.29	27.66	12.30	21.82	-5.72	38.30
	7.08	46.10	21.30	36.36	-7.13	63.83
	10.87	64.54	30.29	50.90	-8.55	89.36
	14.66	82.98	39.29	65.45	-9.97	114.89
	18.45	101.43	48.29	79.99	-11.39	140.42
	22.24	119.87	57.28	94.53	-12.81	165.95
	26.03	138.31	66.28	109.08	-14.23	191.48
29.82	156.75	75.28	123.62	-15.64	217.01	
4.40	36.93	166.08	82.46	131.04	-8.60	229.91
	32.88	146.54	72.91	115.62	-7.14	202.87
	28.84	127.00	63.36	100.21	-5.68	175.82
	24.80	107.46	53.81	84.79	-4.21	148.77
	20.75	87.92	44.26	69.37	-2.75	121.72
	16.71	68.38	34.71	53.96	-1.29	94.67
	12.67	48.85	25.16	38.54	0.18	67.62
	8.62	29.31	15.61	23.12	1.64	40.57
	4.58	9.77	6.05	7.71	3.11	13.52
	-0.51	9.23	3.30	7.28	-4.32	12.77
	3.31	27.68	12.32	21.84	-5.70	38.32
	7.13	46.14	21.34	36.40	-7.08	63.87
	10.95	64.59	30.36	50.96	-8.46	89.42
	14.77	83.04	39.39	65.52	-9.85	114.96
	18.59	101.50	48.41	80.09	-11.23	140.51
	22.41	119.95	57.43	94.65	-12.61	166.06
	26.23	138.41	66.45	109.21	-13.99	191.61
30.05	156.86	75.47	123.77	-15.38	217.16	
4.45	37.21	166.12	82.65	131.14	-8.24	229.96
	33.13	146.58	73.08	115.71	-6.81	202.91
	29.06	127.03	63.51	100.28	-5.39	175.85

	24.99	107.49	53.94	84.86	-3.96	148.80
	20.91	87.95	44.36	69.43	-2.54	121.75
	16.84	68.40	34.79	54.00	-1.11	94.69
	12.77	48.86	25.22	38.57	0.31	67.64
	8.69	29.32	15.65	23.14	1.74	40.58
	4.62	9.77	6.08	7.71	3.16	13.53
	-0.52	9.23	3.30	7.29	-4.34	12.78
	3.33	27.70	12.35	21.87	-5.68	38.35
	7.18	46.17	21.39	36.45	-7.03	63.91
	11.03	64.64	30.44	51.03	-8.38	89.48
	14.88	83.11	39.48	65.61	-9.72	115.05
	18.73	101.57	48.53	80.19	-11.07	140.61
	22.58	120.04	57.57	94.76	-12.42	166.18
	26.43	138.51	66.62	109.34	-13.76	191.74
	30.28	156.98	75.66	123.92	-15.11	217.31
4.50	37.48	166.17	82.85	131.24	-7.88	230.02
	33.38	146.62	73.25	115.80	-6.49	202.96
	29.28	127.07	63.66	100.36	-5.10	175.90
	25.18	107.52	54.07	84.92	-3.72	148.84
	21.07	87.97	44.47	69.48	-2.33	121.78
	16.97	68.42	34.88	54.04	-0.94	94.71
	12.87	48.87	25.29	38.60	0.45	67.65
	8.76	29.32	15.69	23.16	1.83	40.59
	4.66	9.77	6.10	7.72	3.22	13.53
	-0.53	9.24	3.30	7.30	-4.35	12.79
	3.35	27.72	12.37	21.90	-5.67	38.38
	7.23	46.21	21.44	36.49	-6.98	63.96
	11.11	64.69	30.51	51.09	-8.29	89.55
	14.99	83.17	39.58	65.69	-9.60	115.13
	18.87	101.65	48.65	80.29	-10.91	140.71
	22.75	120.13	57.72	94.89	-12.22	166.30
	26.63	138.62	66.79	109.48	-13.53	191.88
	30.51	157.10	75.86	124.08	-14.85	217.47

A2.1.7.- Cercha con 20 divisiones del cordón

En la Figura 7 se indica el cálculo de la cercha con el cordón dividido en 20 espacios para alturas desde 50cm hasta 450cm con intervalos de 5cm, con el software Matlab2018.

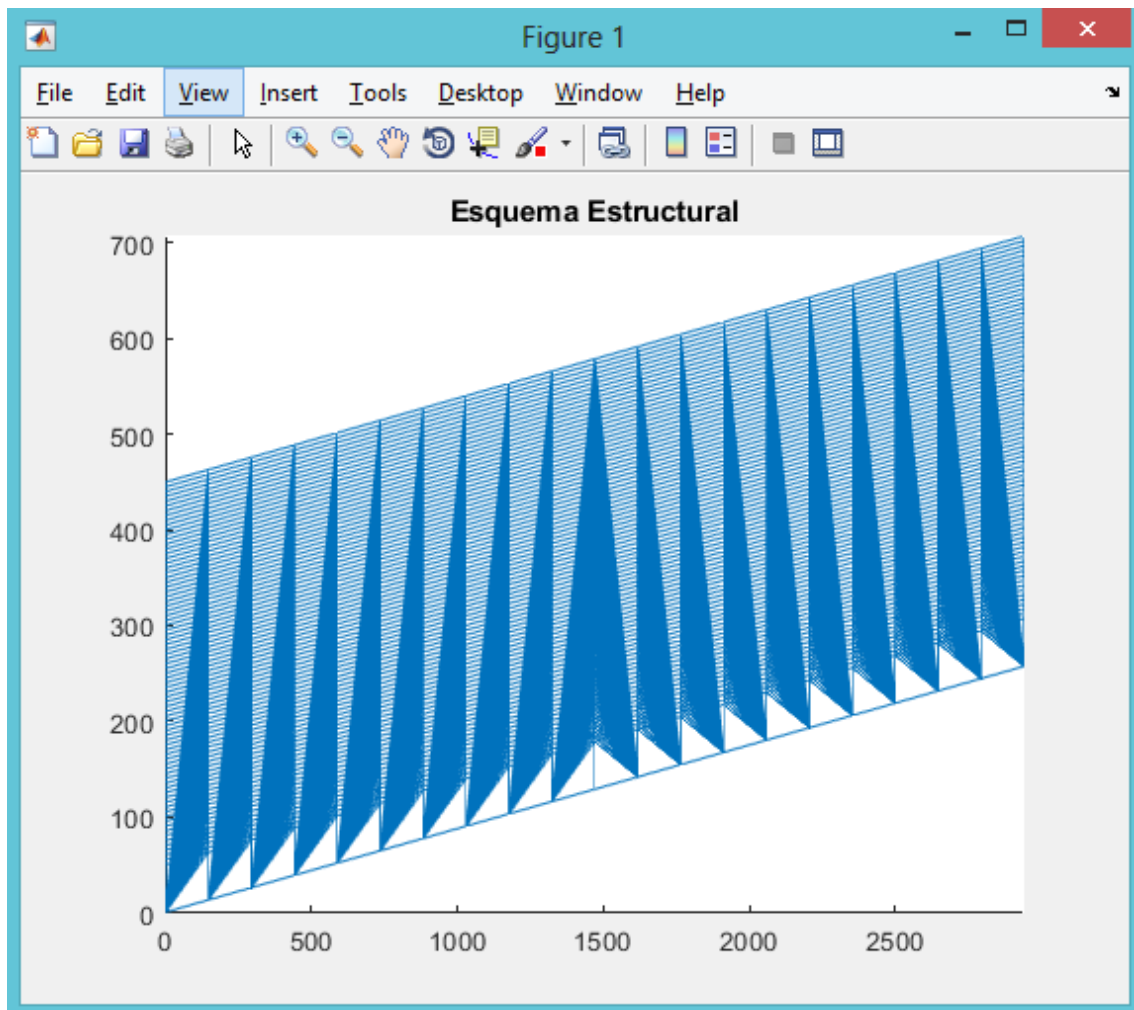


Figura 7. Cercha con el cordón dividido en 20 espacios (ejes en cm)

En la Tabla 25 se muestran las combinaciones de esfuerzos para el cordón inferior en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 25. Combinación de esfuerzos del cordón inferior - 20 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Mín (KN)	Máx(KN)	Mín (KN)	Máx(KN)	Min (KN)	Máx(KN)
0.50	158.78	1136.39	505.23	874.47	-187.68	1576.83
	108.86	768.42	342.38	591.31	-124.66	1066.24
	64.72	443.73	198.64	341.46	-69.20	615.72
	26.37	162.34	74.02	124.92	-21.28	225.26
	-75.76	-6.21	-58.30	-31.49	-105.12	19.08
	-270.57	-33.00	-208.21	-117.89	-375.44	51.89
	-422.09	-54.01	-324.80	-185.18	-585.68	77.15
	-530.32	-69.25	-408.08	-233.35	-735.86	94.86
	-595.25	-78.70	-458.05	-262.41	-825.96	105.01
	-616.90	-82.37	-474.71	-272.36	-856.00	107.61

	-616.90	-82.37	-474.71	-272.36	-856.00	107.61
	-595.25	-80.26	-458.05	-263.19	-825.96	102.67
	-530.32	-72.38	-408.08	-234.92	-735.86	90.16
	-422.09	-58.71	-324.80	-187.52	-585.68	70.11
	-270.57	-39.26	-208.21	-121.02	-375.44	42.51
	-75.76	-14.03	-58.30	-35.40	-105.12	7.35
	16.98	162.34	69.33	124.92	-35.36	225.26
	53.78	443.73	193.17	341.46	-85.62	615.72
	96.35	768.42	336.13	591.31	-143.43	1066.24
	144.70	1136.39	498.20	874.47	-208.80	1576.83
	133.57	1021.67	448.21	783.55	-181.07	1418.07
	91.81	690.84	303.82	529.83	-120.20	958.89
	54.88	398.94	176.38	305.96	-66.62	553.72
	22.77	145.95	65.87	111.94	-20.34	202.58
	-68.11	-4.52	-52.24	-27.69	-94.54	18.64
	-243.25	-27.00	-186.56	-104.31	-337.64	50.32
	-379.48	-44.65	-291.03	-164.00	-526.71	74.70
	-476.78	-57.48	-365.66	-206.74	-661.77	91.77
	-535.16	-65.49	-410.43	-232.54	-742.80	101.55
	-554.62	-68.69	-425.36	-241.40	-769.81	104.03
	-554.62	-68.69	-425.36	-241.40	-769.81	104.03
	-535.16	-67.06	-410.43	-233.32	-742.80	99.21
	-476.78	-60.61	-365.66	-208.30	-661.77	87.08
	-379.48	-49.34	-291.03	-166.34	-526.71	67.66
	-243.25	-33.25	-186.56	-107.44	-337.64	40.93
	-68.11	-12.35	-52.24	-31.60	-94.54	6.91
	13.38	145.95	61.18	111.94	-34.41	202.58
	43.93	398.94	170.90	305.96	-83.04	553.72
	79.30	690.84	297.56	529.83	-138.97	958.89
	119.49	1021.67	441.17	783.55	-202.19	1418.07
	107.42	920.93	395.55	702.66	-180.70	1278.84
	74.14	622.72	268.22	475.13	-119.94	864.74
	44.67	359.60	155.82	274.37	-66.47	499.36
	19.03	131.56	58.35	100.38	-20.28	182.69
	-61.40	-2.78	-46.84	-24.18	-85.26	18.62
	-219.27	-20.77	-167.30	-91.78	-304.49	50.23
	-342.06	-34.94	-260.99	-144.44	-475.00	74.56
	-429.77	-45.28	-327.91	-182.17	-596.79	91.60
	-482.39	-51.80	-368.06	-204.96	-669.87	101.36
	-499.93	-54.50	-381.44	-212.82	-694.23	103.83
	-499.93	-54.50	-381.44	-212.82	-694.23	103.83
	-482.39	-53.37	-368.06	-205.74	-669.87	99.01
	-429.77	-48.41	-327.91	-183.73	-596.79	86.91
	-342.06	-39.63	-260.99	-146.79	-475.00	67.52
	-219.27	-27.03	-167.30	-94.91	-304.49	40.85

	-61.40	-10.60	-46.84	-28.09	-85.26	6.89
	9.65	131.56	53.66	100.38	-34.36	182.69
	33.72	359.60	150.34	274.37	-82.89	499.36
	61.62	622.72	261.96	475.13	-138.71	864.74
	93.35	920.93	388.51	702.66	-201.82	1278.84
	96.43	846.81	362.12	645.33	-169.27	1176.05
	66.70	572.61	245.61	436.37	-112.21	795.23
	40.38	330.66	142.76	251.99	-62.01	459.22
	17.46	120.97	53.57	92.19	-18.65	168.01
	-56.45	-2.05	-43.02	-21.95	-78.40	17.85
	-201.62	-18.15	-153.65	-83.82	-280.01	47.51
	-314.53	-30.85	-239.69	-132.02	-436.82	70.31
	-395.18	-40.15	-301.15	-166.56	-548.82	86.27
	-443.57	-46.04	-338.03	-187.45	-616.02	95.37
	-459.70	-48.52	-350.32	-194.67	-638.43	97.62
	-459.70	-48.52	-350.32	-194.67	-638.43	97.62
	-443.57	-47.60	-338.03	-188.23	-616.02	93.02
	-395.18	-43.28	-301.15	-168.13	-548.82	81.57
	-314.53	-35.55	-239.69	-134.37	-436.82	63.27
	-201.62	-24.41	-153.65	-86.94	-280.01	38.12
	-56.45	-9.87	-43.02	-25.86	-78.40	6.12
	8.08	120.97	48.88	92.19	-32.73	168.01
	29.43	330.66	137.29	251.99	-78.43	459.22
	54.19	572.61	239.35	436.37	-130.98	795.23
	82.35	846.81	355.08	645.33	-190.38	1176.05
	83.95	780.24	330.41	593.15	-162.51	1083.82
	58.26	527.59	224.17	401.08	-107.64	732.87
	35.51	304.66	130.38	231.61	-59.37	423.21
	15.68	111.46	49.05	84.74	-17.69	154.83
	-52.02	-1.22	-39.54	-19.84	-72.25	17.40
	-185.77	-15.18	-141.23	-76.27	-258.05	45.90
	-289.80	-26.22	-220.31	-120.25	-402.56	67.80
	-364.11	-34.33	-276.80	-151.77	-505.78	83.11
	-408.70	-39.51	-310.70	-170.84	-567.72	91.83
	-423.56	-41.75	-321.99	-177.46	-588.36	93.95
	-423.56	-41.75	-321.99	-177.46	-588.36	93.95
	-408.70	-41.07	-310.70	-171.62	-567.72	89.48
	-364.11	-37.46	-276.80	-153.33	-505.78	78.42
	-289.80	-30.91	-220.31	-122.59	-402.56	60.76
	-185.77	-21.44	-141.23	-79.40	-258.05	36.51
	-52.02	-9.04	-39.54	-23.75	-72.25	5.67
	6.30	111.46	44.35	84.74	-31.76	154.83
	24.56	304.66	124.91	231.61	-75.79	423.21
	45.75	527.59	217.92	401.08	-126.41	732.87
	69.87	780.24	323.38	593.15	-183.63	1083.82

0.75	75.23	724.63	305.03	550.01	-154.57	1006.72
	52.37	489.99	207.01	371.91	-102.27	680.73
	32.10	282.95	120.47	214.77	-56.27	393.10
	14.43	103.52	45.42	78.57	-16.55	143.82
	-48.31	-0.64	-36.67	-18.15	-67.11	16.87
	-172.53	-13.11	-130.96	-70.22	-239.70	44.01
	-269.15	-22.98	-204.29	-110.82	-373.92	64.85
	-338.16	-30.26	-256.67	-139.92	-469.80	79.40
	-379.57	-34.94	-288.10	-157.54	-527.33	87.67
	-393.37	-37.02	-298.58	-163.68	-546.50	89.64
	-393.37	-37.02	-298.58	-163.68	-546.50	89.64
	-379.57	-36.50	-288.10	-158.33	-527.33	85.32
	-338.16	-33.39	-256.67	-141.49	-469.80	74.71
	-269.15	-27.68	-204.29	-113.16	-373.92	57.81
	-172.53	-19.36	-130.96	-73.35	-239.70	34.62
	-48.31	-8.46	-36.67	-22.06	-67.11	5.14
	5.05	103.52	40.73	78.57	-30.63	143.82
	21.15	282.95	115.00	214.77	-72.69	393.10
39.85	489.99	200.75	371.91	-121.04	680.73	
61.15	724.63	297.99	550.01	-175.68	1006.72	
0.80	71.89	680.26	287.10	516.55	-143.33	945.04
	50.11	459.98	194.88	349.29	-94.67	639.03
	30.80	265.62	113.47	201.70	-51.88	369.01
	13.96	97.18	42.86	73.79	-14.95	135.01
	-45.35	-0.41	-34.44	-16.95	-63.00	16.12
	-161.97	-12.31	-122.99	-65.96	-225.01	41.33
	-252.67	-21.74	-191.86	-104.16	-351.01	60.68
	-317.45	-28.70	-241.06	-131.56	-441.02	74.16
	-356.33	-33.19	-270.58	-148.15	-495.02	81.78
	-369.28	-35.20	-280.41	-153.95	-513.02	83.54
	-369.28	-35.20	-280.41	-153.95	-513.02	83.54
	-356.33	-34.75	-270.58	-148.93	-495.02	79.43
	-317.45	-31.83	-241.06	-133.12	-441.02	69.47
	-252.67	-26.43	-191.86	-106.50	-351.01	53.64
	-161.97	-18.57	-122.99	-69.08	-225.01	31.95
	-45.35	-8.23	-34.44	-20.86	-63.00	4.39
	4.57	97.18	38.17	73.79	-29.02	135.01
	19.85	265.62	108.00	201.70	-68.30	369.01
37.59	459.98	188.63	349.29	-113.44	639.03	
57.81	680.26	280.06	516.55	-164.44	945.04	
0.85	64.93	637.10	267.28	483.03	-137.42	885.21
	45.40	430.80	181.48	326.62	-90.68	598.57
	28.08	248.77	105.73	188.61	-49.57	345.65
	12.96	91.01	40.03	69.00	-14.10	126.46
	-42.47	0.05	-32.20	-15.63	-59.01	15.73

	-151.69	-10.66	-115.01	-61.24	-210.76	39.92
	-236.64	-19.16	-179.41	-96.79	-328.79	58.48
	-297.31	-25.45	-225.41	-122.31	-413.10	71.40
	-333.72	-29.54	-253.01	-137.77	-463.68	78.68
	-345.85	-31.43	-262.21	-143.18	-480.54	80.33
	-345.85	-31.43	-262.21	-143.18	-480.54	80.33
	-333.72	-31.11	-253.01	-138.55	-463.68	76.34
	-297.31	-28.58	-225.41	-123.87	-413.10	66.71
	-236.64	-23.85	-179.41	-99.14	-328.79	51.44
	-151.69	-16.91	-115.01	-64.36	-210.76	30.54
	-42.47	-7.77	-32.20	-19.54	-59.01	4.00
	3.58	91.01	35.33	69.00	-28.18	126.46
	17.13	248.77	100.25	188.61	-65.99	345.65
	32.89	430.80	175.22	326.62	-109.45	598.57
	50.85	637.10	260.24	483.03	-158.53	885.21
0.90	62.24	602.23	253.15	456.71	-128.67	836.73
	43.58	407.22	171.93	308.83	-84.76	565.79
	27.03	235.16	100.21	178.34	-46.15	326.72
	12.58	86.03	38.01	65.24	-12.85	119.53
	-40.15	0.23	-30.45	-14.69	-55.78	15.15
	-143.39	-10.01	-108.74	-57.87	-199.22	37.84
	-223.69	-18.16	-169.64	-91.55	-310.79	55.23
	-281.04	-24.20	-213.13	-115.71	-390.48	67.32
	-315.45	-28.13	-239.23	-130.37	-438.29	74.10
	-326.92	-29.97	-247.93	-135.51	-454.23	75.58
	-326.92	-29.97	-247.93	-135.51	-454.23	75.58
	-315.45	-29.70	-239.23	-131.15	-438.29	71.76
	-281.04	-27.32	-213.13	-117.28	-390.48	62.63
	-223.69	-22.85	-169.64	-93.89	-310.79	48.20
	-143.39	-16.27	-108.74	-61.00	-199.22	28.46
	-40.15	-7.59	-30.45	-18.60	-55.78	3.42
	3.19	86.03	33.32	65.24	-26.93	119.53
	16.08	235.16	94.74	178.34	-62.58	326.72
	31.07	407.22	165.67	308.83	-103.53	565.79
	48.16	602.23	246.11	456.71	-149.79	836.73
0.95	60.14	571.34	240.82	433.48	-120.54	793.78
	42.16	386.33	163.59	293.12	-79.26	536.75
	26.21	223.09	95.40	169.27	-42.98	309.95
	12.28	81.62	36.25	61.93	-11.69	113.40
	-38.09	0.37	-28.90	-13.86	-52.92	14.61
	-136.03	-9.51	-103.21	-54.94	-189.00	35.91
	-212.21	-17.38	-161.01	-86.97	-294.83	52.21
	-266.63	-23.22	-202.29	-109.96	-370.43	63.53
	-299.27	-27.03	-227.06	-123.91	-415.79	69.84
	-310.16	-28.83	-235.32	-128.82	-430.91	71.17

	-310.16	-28.83	-235.32	-128.82	-430.91	71.17
	-299.27	-28.60	-227.06	-124.69	-415.79	67.50
	-266.63	-26.34	-202.29	-111.52	-370.43	58.83
	-212.21	-22.07	-161.01	-89.31	-294.83	45.17
	-136.03	-15.77	-103.21	-58.06	-189.00	26.52
	-38.09	-7.45	-28.90	-17.78	-52.92	2.87
	2.89	81.62	31.55	61.93	-25.77	113.40
	15.26	223.09	89.92	169.27	-59.40	309.95
	29.65	386.33	157.33	293.12	-98.03	536.75
	46.06	571.34	233.78	433.48	-141.66	793.78
1.00	55.13	540.42	226.60	409.45	-116.34	750.92
	38.77	365.42	153.97	276.87	-76.42	507.76
	24.25	211.02	89.84	159.88	-41.34	293.21
	11.56	77.20	34.21	58.49	-11.09	107.27
	-36.03	0.70	-27.30	-12.92	-50.06	14.33
	-128.67	-8.32	-97.49	-51.55	-178.79	34.91
	-200.73	-15.52	-152.08	-81.68	-278.91	50.65
	-252.19	-20.88	-191.08	-103.32	-350.43	61.57
	-283.08	-24.41	-214.48	-116.46	-393.34	67.64
	-293.37	-26.11	-222.27	-121.10	-407.64	68.89
	-293.37	-26.11	-222.27	-121.10	-407.64	68.89
	-283.08	-25.97	-214.48	-117.24	-393.34	65.30
	-252.19	-24.01	-191.08	-104.89	-350.43	56.87
	-200.73	-20.21	-152.08	-84.03	-278.91	43.61
	-128.67	-14.58	-97.49	-54.68	-178.79	25.52
	-36.03	-7.12	-27.30	-16.83	-50.06	2.59
	2.18	77.20	29.52	58.49	-25.17	107.27
	13.30	211.02	84.37	159.88	-57.76	293.21
	26.26	365.42	147.71	276.87	-95.19	507.76
	41.05	540.42	219.56	409.45	-137.46	750.92
1.05	53.59	515.43	216.72	390.70	-109.55	716.17
	37.73	348.53	147.29	264.19	-71.83	484.27
	23.65	201.26	85.99	152.56	-38.69	279.65
	11.34	73.63	32.80	55.81	-10.12	102.31
	-34.36	0.81	-26.05	-12.26	-47.74	13.87
	-122.72	-7.95	-93.02	-49.20	-170.52	33.29
	-191.45	-14.94	-145.12	-78.02	-266.00	48.13
	-240.53	-20.16	-182.33	-98.71	-334.21	58.40
	-269.99	-23.60	-204.65	-111.29	-375.14	64.09
	-279.81	-25.27	-212.10	-115.74	-388.78	65.20
	-279.81	-25.27	-212.10	-115.74	-388.78	65.20
	-269.99	-25.16	-204.65	-112.07	-375.14	61.74
	-240.53	-23.29	-182.33	-100.28	-334.21	53.70
	-191.45	-19.64	-145.12	-80.36	-266.00	41.09
	-122.72	-14.21	-93.02	-52.33	-170.52	23.90

	-34.36	-7.01	-26.05	-16.17	-47.74	2.14
	1.96	73.63	28.11	55.81	-24.20	102.31
	12.70	201.26	80.51	152.56	-55.11	279.65
	25.22	348.53	141.04	264.19	-90.60	484.27
	39.51	515.43	209.68	390.70	-130.67	716.17
1.10	51.67	492.21	207.24	373.15	-103.89	683.89
	36.44	332.83	140.88	252.32	-68.00	462.44
	22.90	192.19	82.28	145.71	-36.48	267.04
	11.07	70.32	31.45	53.31	-9.31	97.70
	-32.81	0.93	-24.88	-11.63	-45.59	13.50
	-117.19	-7.50	-88.85	-46.94	-162.83	31.94
	-182.82	-14.23	-138.60	-74.49	-254.02	46.03
	-229.70	-19.27	-174.14	-94.29	-319.15	55.75
	-257.82	-22.60	-195.46	-106.32	-358.23	61.12
	-267.20	-24.23	-202.57	-110.59	-371.25	62.13
	-267.20	-24.23	-202.57	-110.59	-371.25	62.13
	-257.82	-24.16	-195.46	-107.10	-358.23	58.77
	-229.70	-22.39	-174.14	-95.85	-319.15	51.06
	-182.82	-18.93	-138.60	-76.84	-254.02	38.99
	-117.19	-13.76	-88.85	-50.07	-162.83	22.56
	-32.81	-6.89	-24.88	-15.54	-45.59	1.76
	1.68	70.32	26.76	53.31	-23.39	97.70
	11.95	192.19	76.81	145.71	-52.90	267.04
	23.93	332.83	134.62	252.32	-86.77	462.44
	37.60	492.21	200.20	373.15	-125.00	683.89
1.15	47.96	469.03	196.60	355.15	-100.69	651.76
	33.92	317.15	133.69	240.15	-65.84	440.71
	21.45	183.14	78.13	138.68	-35.23	254.49
	10.54	67.00	29.93	50.74	-8.85	93.11
	-31.27	1.18	-23.68	-10.92	-43.45	13.28
	-111.67	-6.61	-84.56	-44.41	-155.18	31.18
	-174.21	-12.85	-131.91	-70.54	-242.08	44.84
	-218.88	-17.53	-165.74	-89.32	-304.15	54.26
	-245.68	-20.65	-186.03	-100.75	-341.40	59.44
	-254.62	-22.21	-192.79	-104.82	-353.81	60.39
	-254.62	-22.21	-192.79	-104.82	-353.81	60.39
	-245.68	-22.22	-186.03	-101.53	-341.40	57.10
	-218.88	-20.66	-165.74	-90.89	-304.15	49.57
	-174.21	-17.54	-131.91	-72.89	-242.08	37.80
	-111.67	-12.87	-84.56	-47.54	-155.18	21.79
	-31.27	-6.64	-23.68	-14.83	-43.45	1.55
	1.15	67.00	25.24	50.74	-22.93	93.11
	10.50	183.14	72.66	138.68	-51.65	254.49
21.41	317.15	127.43	240.15	-84.61	440.71	
33.88	469.03	189.56	355.15	-121.80	651.76	

1.20	46.93	450.16	189.23	341.03	-95.38	625.51
	33.23	304.39	128.70	230.60	-62.25	422.96
	21.05	175.78	75.25	133.16	-33.15	244.25
	10.39	64.31	28.88	48.72	-8.09	89.36
	-30.01	1.25	-22.74	-10.43	-41.70	12.93
	-107.18	-6.37	-81.20	-42.65	-148.93	29.92
	-167.20	-12.47	-126.67	-67.81	-232.33	42.87
	-210.08	-17.05	-159.15	-85.88	-291.91	51.78
	-235.80	-20.11	-178.63	-96.89	-327.65	56.66
	-244.37	-21.65	-185.13	-100.82	-339.56	57.51
	-244.37	-21.65	-185.13	-100.82	-339.56	57.51
	-235.80	-21.68	-178.63	-97.67	-327.65	54.32
	-210.08	-20.18	-159.15	-87.45	-291.91	47.09
	-167.20	-17.16	-126.67	-70.15	-232.33	35.83
	-107.18	-12.63	-81.20	-45.78	-148.93	20.53
	-30.01	-6.57	-22.74	-14.34	-41.70	1.20
	1.01	64.31	24.18	48.72	-22.17	89.36
	10.10	175.78	69.78	133.16	-49.58	244.25
	20.72	304.39	122.45	230.60	-81.02	422.96
	32.85	450.16	182.19	341.03	-116.49	625.51
1.25	45.99	432.81	182.46	328.04	-90.48	601.37
	32.59	292.66	124.12	221.82	-58.94	406.64
	20.68	169.00	72.61	128.09	-31.24	234.82
	10.26	61.83	27.91	46.86	-7.40	85.91
	-28.85	1.31	-21.87	-9.97	-40.09	12.60
	-103.05	-6.14	-78.10	-41.04	-143.18	28.75
	-160.76	-12.12	-121.84	-65.29	-223.37	41.05
	-201.98	-16.61	-153.08	-82.72	-280.64	49.50
	-226.71	-19.62	-171.83	-93.34	-315.01	54.10
	-234.95	-21.14	-178.08	-97.14	-326.46	54.85
	-234.95	-21.14	-178.08	-97.14	-326.46	54.85
	-226.71	-21.18	-171.83	-94.12	-315.01	51.75
	-201.98	-19.74	-153.08	-84.29	-280.64	44.81
	-160.76	-16.81	-121.84	-67.64	-223.37	34.01
	-103.05	-12.40	-78.10	-44.17	-143.18	19.37
	-28.85	-6.51	-21.87	-13.88	-40.09	0.87
	0.87	61.83	23.22	46.86	-21.47	85.91
	9.73	169.00	67.13	128.09	-47.67	234.82
	20.08	292.66	117.87	221.82	-77.71	406.64
	31.91	432.81	175.42	328.04	-111.60	601.37
1.30	45.12	416.80	176.21	316.06	-85.96	579.10
	32.01	281.83	119.90	213.71	-55.88	391.58
	20.35	162.75	70.17	123.41	-29.48	226.13
	10.13	59.54	27.02	45.15	-6.75	82.73
	-27.79	1.37	-21.07	-9.56	-38.61	12.30

	-99.24	-5.94	-75.25	-39.55	-137.88	27.67
	-154.81	-11.80	-117.39	-62.97	-215.10	39.37
	-194.51	-16.21	-147.49	-79.81	-270.25	47.39
	-218.32	-19.17	-165.55	-90.07	-303.34	51.73
	-226.26	-20.67	-171.57	-93.75	-314.37	52.40
	-226.26	-20.67	-171.57	-93.75	-314.37	52.40
	-218.32	-20.73	-165.55	-90.85	-303.34	49.39
	-194.51	-19.34	-147.49	-81.37	-270.25	42.70
	-154.81	-16.49	-117.39	-65.32	-215.10	32.33
	-99.24	-12.20	-75.25	-42.68	-137.88	18.29
	-27.79	-6.45	-21.07	-13.47	-38.61	0.57
	0.75	59.54	22.32	45.15	-20.83	82.73
	9.40	162.75	64.69	123.41	-45.90	226.13
	19.50	281.83	113.64	213.71	-74.65	391.58
	31.05	416.80	169.17	316.06	-107.08	579.10
1.35	44.33	401.98	170.43	304.97	-81.77	558.49
	31.47	271.81	115.99	206.22	-53.05	377.64
	20.04	156.96	67.91	119.08	-27.84	218.08
	10.02	57.43	26.19	43.57	-6.15	79.78
	-26.80	1.42	-20.33	-9.17	-37.23	12.02
	-95.71	-5.75	-72.61	-38.18	-132.97	26.68
	-149.31	-11.50	-113.27	-60.82	-207.44	37.81
	-187.59	-15.84	-142.32	-77.11	-260.63	45.43
	-210.56	-18.75	-159.75	-87.04	-292.54	49.54
	-218.22	-20.24	-165.55	-90.61	-303.18	50.12
	-218.22	-20.24	-165.55	-90.61	-303.18	50.12
	-210.56	-20.32	-159.75	-87.82	-292.54	47.19
	-187.59	-18.97	-142.32	-78.67	-260.63	40.74
	-149.31	-16.20	-113.27	-63.17	-207.44	30.77
	-95.71	-12.01	-72.61	-41.31	-132.97	17.29
	-26.80	-6.40	-20.33	-13.08	-37.23	0.29
	0.63	57.43	21.50	43.57	-20.23	79.78
	9.09	156.96	62.44	119.08	-44.26	218.08
	18.96	271.81	109.74	206.22	-71.82	377.64
	30.25	401.98	163.39	304.97	-102.89	558.49
1.40	43.60	388.22	165.07	294.68	-77.87	539.35
	30.98	262.51	112.37	199.26	-50.41	364.70
	19.75	151.59	65.82	115.06	-26.32	210.60
	9.92	55.46	25.42	42.10	-5.59	77.05
	-25.88	1.47	-19.65	-8.81	-35.96	11.76
	-92.43	-5.58	-70.16	-36.90	-128.42	25.75
	-144.20	-11.23	-109.45	-58.83	-200.33	36.37
	-181.17	-15.50	-137.52	-74.61	-251.70	43.61
	-203.35	-18.37	-154.35	-84.23	-282.52	47.50
	-210.75	-19.85	-159.97	-87.70	-292.79	48.01

	-210.75	-19.85	-159.97	-87.70	-292.79	48.01
	-203.35	-19.93	-154.35	-85.01	-282.52	45.15
	-181.17	-18.62	-137.52	-76.17	-251.70	38.92
	-144.20	-15.93	-109.45	-61.18	-200.33	29.33
	-92.43	-11.83	-70.16	-40.03	-128.42	16.36
	-25.88	-6.35	-19.65	-12.73	-35.96	0.03
	0.53	55.46	20.73	42.10	-19.67	77.05
	8.80	151.59	60.34	115.06	-42.74	210.60
	18.46	262.51	106.11	199.26	-69.18	364.70
	29.52	388.22	158.03	294.68	-98.99	539.35
	42.92	375.42	160.08	285.10	-74.24	521.54
	30.52	253.85	108.99	192.78	-47.96	352.66
	19.49	146.59	63.87	111.32	-24.90	203.65
	9.82	53.63	24.71	40.73	-5.08	74.51
	-25.03	1.52	-19.01	-8.48	-34.77	11.52
	-89.38	-5.41	-67.88	-35.71	-124.18	24.88
	-139.44	-10.98	-105.89	-56.98	-193.71	35.02
	-175.19	-15.18	-133.05	-72.28	-243.38	41.92
	-196.65	-18.01	-149.34	-81.62	-273.19	45.59
	-203.80	-19.48	-154.77	-84.99	-283.12	46.03
	-203.80	-19.48	-154.77	-84.99	-283.12	46.03
	-196.65	-19.58	-149.34	-82.40	-273.19	43.25
	-175.19	-18.31	-133.05	-73.84	-243.38	37.23
	-139.44	-15.67	-105.89	-59.32	-193.71	27.98
	-89.38	-11.67	-67.88	-38.84	-124.18	15.50
	-25.03	-6.30	-19.01	-12.39	-34.77	-0.21
	0.43	53.63	20.02	40.73	-19.15	74.51
	8.54	146.59	58.40	111.32	-41.32	203.65
	18.01	253.85	102.74	192.78	-66.73	352.66
	28.84	375.42	153.04	285.10	-95.36	521.54
	42.29	363.47	155.43	276.16	-70.85	504.92
	30.09	245.78	105.85	186.74	-45.66	341.42
	19.24	141.93	62.05	107.83	-23.58	197.16
	9.73	51.92	24.05	39.45	-4.59	72.13
	-24.23	1.56	-18.41	-8.17	-33.66	11.29
	-86.54	-5.27	-65.75	-34.61	-120.22	24.07
	-135.00	-10.75	-102.57	-55.25	-187.54	33.76
	-169.62	-14.89	-128.88	-70.11	-235.63	40.34
	-190.39	-17.68	-144.66	-79.18	-264.48	43.81
	-197.31	-19.14	-149.92	-82.47	-274.10	44.19
	-197.31	-19.14	-149.92	-82.47	-274.10	44.19
	-190.39	-19.25	-144.66	-79.96	-264.48	41.47
	-169.62	-18.02	-128.88	-71.67	-235.63	35.64
	-135.00	-15.44	-102.57	-57.60	-187.54	26.72
	-86.54	-11.52	-65.75	-37.73	-120.22	14.69

	-24.23	-6.26	-18.41	-12.08	-33.66	-0.44
	0.34	51.92	19.36	39.45	-18.67	72.13
	8.29	141.93	56.58	107.83	-40.00	197.16
	17.58	245.78	99.59	186.74	-64.43	341.42
	28.21	363.47	148.39	276.16	-91.96	504.92
	41.71	352.30	151.08	267.81	-67.67	489.38
	29.70	238.22	102.91	181.09	-43.51	330.91
	19.01	137.56	60.36	104.57	-22.33	191.09
	9.65	50.33	23.43	38.26	-4.14	69.91
	-23.49	1.60	-17.85	-7.88	-32.63	11.08
	-83.88	-5.13	-63.76	-33.57	-116.52	23.32
	-130.85	-10.53	-99.47	-53.64	-181.77	32.58
	-164.41	-14.61	-124.98	-68.08	-228.38	38.85
	-184.54	-17.38	-140.28	-76.90	-256.34	42.15
	-191.25	-18.82	-145.38	-80.11	-265.66	42.47
	-191.25	-18.82	-145.38	-80.11	-265.66	42.47
	-184.54	-18.94	-140.28	-77.69	-256.34	39.80
	-164.41	-17.74	-124.98	-69.65	-228.38	34.16
	-130.85	-15.22	-99.47	-55.98	-181.77	25.54
	-83.88	-11.38	-63.76	-36.70	-116.52	13.93
	-23.49	-6.22	-17.85	-11.79	-32.63	-0.65
	0.26	50.33	18.73	38.26	-18.21	69.91
	8.06	137.56	54.88	104.57	-38.76	191.09
	17.19	238.22	96.65	181.09	-62.28	330.91
	27.63	352.30	144.04	267.81	-88.79	489.38
	41.16	341.83	147.01	259.98	-64.69	474.81
	29.33	231.14	100.16	175.79	-41.49	321.06
	18.80	133.48	58.77	101.51	-21.17	185.40
	9.57	48.83	22.84	37.14	-3.71	67.83
	-22.79	1.64	-17.33	-7.61	-31.65	10.88
	-81.39	-5.00	-61.90	-32.60	-113.05	22.61
	-126.96	-10.33	-96.56	-52.12	-176.36	31.47
	-159.52	-14.36	-121.32	-66.18	-221.58	37.46
	-179.05	-17.09	-136.18	-74.77	-248.71	40.59
	-185.56	-18.52	-141.13	-77.90	-257.76	40.85
	-185.56	-18.52	-141.13	-77.90	-257.76	40.85
	-179.05	-18.66	-136.18	-75.55	-248.71	38.24
	-159.52	-17.49	-121.32	-67.74	-221.58	32.77
	-126.96	-15.02	-96.56	-54.47	-176.36	24.43
	-81.39	-11.25	-61.90	-35.73	-113.05	13.22
	-22.79	-6.19	-17.33	-11.52	-31.65	-0.85
	0.18	48.83	18.15	37.14	-17.79	67.83
	7.85	133.48	53.29	101.51	-37.59	185.40
	16.82	231.14	93.90	175.79	-60.26	321.06
	27.09	341.83	139.97	259.98	-85.80	474.81

1.65	40.65	332.00	143.19	252.62	-61.88	461.13
	28.99	224.49	97.57	170.82	-39.60	311.81
	18.60	129.64	57.27	98.64	-20.07	180.06
	9.49	47.43	22.30	36.09	-3.31	65.88
	-22.13	1.67	-16.84	-7.36	-30.74	10.69
	-79.05	-4.88	-60.15	-31.69	-109.79	21.94
	-123.31	-10.14	-93.83	-50.70	-171.28	30.42
	-154.93	-14.12	-117.89	-64.40	-215.20	36.15
	-173.90	-16.83	-132.33	-72.77	-241.55	39.12
	-180.23	-18.25	-137.14	-75.82	-250.33	39.32
	-180.23	-18.25	-137.14	-75.82	-250.33	39.32
	-173.90	-18.39	-132.33	-73.55	-241.55	36.77
	-154.93	-17.25	-117.89	-65.96	-215.20	31.46
	-123.31	-14.83	-93.83	-53.05	-171.28	23.39
	-79.05	-11.13	-60.15	-34.82	-109.79	12.55
	-22.13	-6.15	-16.84	-11.27	-30.74	-1.04
	0.11	47.43	17.61	36.09	-17.39	65.88
	7.65	129.64	51.80	98.64	-36.50	180.06
	16.47	224.49	91.31	170.82	-58.37	311.81
	26.58	332.00	136.15	252.62	-83.00	461.13
1.70	40.18	322.74	139.59	245.71	-59.24	448.26
	28.67	218.24	95.14	166.14	-37.81	303.11
	18.41	126.02	55.87	95.94	-19.04	175.04
	9.43	46.11	21.79	35.10	-2.93	64.04
	-21.52	1.70	-16.38	-7.12	-29.88	10.52
	-76.84	-4.76	-58.50	-30.83	-106.73	21.31
	-119.88	-9.96	-91.26	-49.37	-166.50	29.44
	-150.61	-13.90	-114.66	-62.72	-209.19	34.92
	-169.06	-16.58	-128.70	-70.89	-234.81	37.73
	-175.20	-17.99	-133.38	-73.87	-243.34	37.89
	-175.20	-17.99	-133.38	-73.87	-243.34	37.89
	-169.06	-18.14	-128.70	-71.67	-234.81	35.39
	-150.61	-17.03	-114.66	-64.28	-209.19	30.22
	-119.88	-14.66	-91.26	-51.71	-166.50	22.40
	-76.84	-11.02	-58.50	-33.96	-106.73	11.93
	-21.52	-6.12	-16.38	-11.03	-29.88	-1.21
	0.04	46.11	17.09	35.10	-17.01	64.04
	7.47	126.02	50.40	95.94	-35.46	175.04
	16.15	218.24	88.88	166.14	-56.58	303.11
	26.10	322.74	132.55	245.71	-80.35	448.26
1.75	39.73	314.02	136.21	239.19	-56.74	436.13
	28.36	212.34	92.85	161.74	-36.12	294.91
	18.24	122.62	54.55	93.40	-18.07	170.30
	9.36	44.86	21.30	34.17	-2.58	62.30
	-20.93	1.73	-15.95	-6.89	-29.08	10.35

	-74.77	-4.66	-56.95	-30.03	-103.84	20.72
	-116.64	-9.80	-88.84	-48.11	-161.99	28.52
	-146.54	-13.69	-111.62	-61.14	-203.53	33.75
	-164.49	-16.34	-125.29	-69.11	-228.45	36.43
	-170.47	-17.75	-129.84	-72.03	-236.76	36.53
	-170.47	-17.75	-129.84	-72.03	-236.76	36.53
	-164.49	-17.91	-125.29	-69.89	-228.45	34.08
	-146.54	-16.82	-111.62	-62.70	-203.53	29.06
	-116.64	-14.49	-88.84	-50.46	-161.99	21.48
	-74.77	-10.91	-56.95	-33.16	-103.84	11.33
	-20.93	-6.09	-15.95	-10.80	-29.08	-1.38
	-0.02	44.86	16.61	34.17	-16.65	62.30
	7.29	122.62	49.07	93.40	-34.49	170.30
	15.85	212.34	86.59	161.74	-54.89	294.91
	25.66	314.02	129.17	239.19	-77.86	436.13
	39.31	305.79	133.01	233.03	-54.38	424.68
	28.08	206.77	90.69	157.57	-34.53	287.16
	18.08	119.40	53.30	90.99	-17.15	165.83
	9.30	43.68	20.84	33.29	-2.24	60.67
	-20.39	1.76	-15.54	-6.68	-28.31	10.19
	-72.81	-4.56	-55.48	-29.27	-101.11	20.15
	-113.58	-9.64	-86.56	-46.92	-157.74	27.64
	-142.70	-13.50	-108.75	-59.65	-198.18	32.65
	-160.18	-16.12	-122.07	-67.44	-222.45	35.19
	-166.00	-17.52	-126.50	-70.30	-230.54	35.25
	-166.00	-17.52	-126.50	-70.30	-230.54	35.25
	-160.18	-17.69	-122.07	-68.22	-222.45	32.84
	-142.70	-16.63	-108.75	-61.21	-198.18	27.96
	-113.58	-14.33	-86.56	-49.27	-157.74	20.60
	-72.81	-10.81	-55.48	-32.40	-101.11	10.77
	-20.39	-6.06	-15.54	-10.59	-28.31	-1.54
	-0.08	43.68	16.15	33.29	-16.32	60.67
	7.13	119.40	47.83	90.99	-33.57	165.83
	15.57	206.77	84.43	157.57	-53.30	287.16
	25.24	305.79	125.97	233.03	-75.50	424.68
1.80	38.92	298.00	129.99	227.21	-52.15	413.85
	27.81	201.51	88.65	153.64	-33.02	279.84
	17.92	116.36	52.12	88.72	-16.27	161.60
	9.25	42.57	20.41	32.46	-1.92	59.12
	-19.87	1.78	-15.15	-6.48	-27.59	10.05
	-70.95	-4.46	-54.10	-28.55	-98.54	19.62
	-110.69	-9.50	-84.39	-45.80	-153.71	26.81
	-139.07	-13.31	-106.03	-58.24	-193.13	31.61
	-156.10	-15.92	-119.02	-65.86	-216.78	34.02
	-161.77	-17.31	-123.34	-68.66	-224.66	34.04
1.85						

	-161.77	-17.31	-123.34	-68.66	-224.66	34.04
	-156.10	-17.48	-119.02	-66.64	-216.78	31.67
	-139.07	-16.44	-106.03	-59.80	-193.13	26.92
	-110.69	-14.19	-84.39	-48.15	-153.71	19.77
	-70.95	-10.72	-54.10	-31.68	-98.54	10.24
	-19.87	-6.04	-15.15	-10.39	-27.59	-1.69
	-0.14	42.57	15.72	32.46	-16.00	59.12
	6.97	116.36	46.65	88.72	-32.70	161.60
	15.30	201.51	82.39	153.64	-51.79	279.84
	24.84	298.00	122.95	227.21	-73.26	413.85
1.90	38.55	290.63	127.13	221.70	-50.03	403.59
	27.56	196.52	86.71	149.91	-31.58	272.90
	17.78	113.48	51.00	86.57	-15.45	157.59
	9.19	41.52	20.00	31.67	-1.62	57.66
	-19.38	1.81	-14.78	-6.29	-26.91	9.90
	-69.20	-4.37	-52.79	-27.87	-96.09	19.12
	-107.95	-9.36	-82.35	-44.74	-149.90	26.02
	-135.63	-13.14	-103.46	-56.90	-188.34	30.62
	-152.23	-15.72	-116.13	-64.36	-211.40	32.91
	-157.77	-17.11	-120.35	-67.10	-219.09	32.89
	-157.77	-17.11	-120.35	-67.10	-219.09	32.89
	-152.23	-17.29	-116.13	-65.14	-211.40	30.56
	-135.63	-16.27	-103.46	-58.47	-188.34	25.93
	-107.95	-14.05	-82.35	-47.09	-149.90	18.98
	-69.20	-10.63	-52.79	-31.00	-96.09	9.73
	-19.38	-6.01	-14.78	-10.20	-26.91	-1.83
	-0.19	41.52	15.31	31.67	-15.69	57.66
	6.83	113.48	45.53	86.57	-31.87	157.59
	15.05	196.52	80.46	149.91	-50.35	272.90
	24.47	290.63	120.09	221.70	-71.15	403.59
1.95	38.20	283.64	124.42	216.48	-48.02	393.86
	27.33	191.79	84.88	146.38	-30.22	266.32
	17.64	110.75	49.95	84.53	-14.66	153.79
	9.14	40.52	19.62	30.93	-1.33	56.27
	-18.91	1.83	-14.43	-6.10	-26.26	9.77
	-67.53	-4.29	-51.54	-27.22	-93.78	18.64
	-105.35	-9.23	-80.41	-43.73	-146.29	25.28
	-132.36	-12.98	-101.02	-55.64	-183.80	29.68
	-148.57	-15.54	-113.39	-62.94	-206.31	31.86
	-153.97	-16.92	-117.52	-65.63	-213.81	31.80
	-153.97	-16.92	-117.52	-65.63	-213.81	31.80
	-148.57	-17.10	-113.39	-63.72	-206.31	29.51
	-132.36	-16.11	-101.02	-57.20	-183.80	24.99
	-105.35	-13.92	-80.41	-46.08	-146.29	18.24
	-67.53	-10.55	-51.54	-30.35	-93.78	9.25

	-18.91	-5.99	-14.43	-10.02	-26.26	-1.96
	-0.24	40.52	14.92	30.93	-15.41	56.27
	6.69	110.75	44.47	84.53	-31.08	153.79
	14.81	191.79	78.62	146.38	-48.99	266.32
	24.12	283.64	117.38	216.48	-69.13	393.86
	37.87	276.99	121.84	211.51	-46.11	384.62
	27.10	187.30	83.14	143.02	-28.93	260.08
	17.51	108.16	48.94	82.59	-13.91	150.18
	9.10	39.57	19.25	30.22	-1.06	54.95
	-18.47	1.86	-14.10	-5.93	-25.64	9.64
	-65.95	-4.21	-50.36	-26.61	-91.58	18.18
	-102.88	-9.11	-78.56	-42.78	-142.86	24.57
	-129.26	-12.82	-98.71	-54.44	-179.49	28.79
	-145.09	-15.37	-110.79	-61.59	-201.47	30.85
	-150.37	-16.74	-114.82	-64.23	-208.79	30.76
	-150.37	-16.74	-114.82	-64.23	-208.79	30.76
	-145.09	-16.93	-110.79	-62.37	-201.47	28.51
	-129.26	-15.95	-98.71	-56.00	-179.49	24.10
	-102.88	-13.80	-78.56	-45.12	-142.86	17.53
	-65.95	-10.47	-50.36	-29.74	-91.58	8.80
	-18.47	-5.97	-14.10	-9.84	-25.64	-2.09
	-0.29	39.57	14.56	30.22	-15.13	54.95
	6.56	108.16	43.47	82.59	-30.34	150.18
	14.59	187.30	76.88	143.02	-47.70	260.08
	23.79	276.99	114.81	211.51	-67.22	384.62
2.00	37.56	270.68	119.40	206.79	-44.28	375.83
	26.89	183.03	81.48	139.83	-27.70	254.13
	17.39	105.69	47.98	80.75	-13.20	146.75
	9.05	38.67	18.90	29.54	-0.80	53.69
	-18.05	1.88	-13.79	-5.77	-25.06	9.52
	-64.45	-4.14	-49.24	-26.03	-89.48	17.75
	-100.54	-8.99	-76.81	-41.87	-139.59	23.89
	-126.32	-12.68	-96.50	-53.29	-175.39	27.94
	-141.78	-15.20	-108.32	-60.31	-196.86	29.90
	-146.94	-16.57	-112.26	-62.90	-204.02	29.77
	-146.94	-16.57	-112.26	-62.90	-204.02	29.77
	-141.78	-16.77	-108.32	-61.09	-196.86	27.55
	-126.32	-15.81	-96.50	-54.86	-175.39	23.25
	-100.54	-13.68	-76.81	-44.21	-139.59	16.85
	-64.45	-10.39	-49.24	-29.15	-89.48	8.37
	-18.05	-5.94	-13.79	-9.68	-25.06	-2.21
	-0.33	38.67	14.21	29.54	-14.87	53.69
	6.44	105.69	42.51	80.75	-29.63	146.75
	14.38	183.03	75.23	139.83	-46.47	254.13
	23.48	270.68	112.36	206.79	-65.40	375.83
2.05						

2.10	37.26	264.66	117.07	202.30	-42.55	367.46
	26.69	178.96	79.91	136.79	-26.53	248.47
	17.28	103.34	47.08	78.99	-12.53	143.49
	9.01	37.81	18.57	28.90	-0.55	52.49
	-17.64	1.90	-13.49	-5.61	-24.50	9.41
	-63.01	-4.07	-48.17	-25.47	-87.49	17.34
	-98.30	-8.88	-75.14	-41.00	-136.49	23.24
	-123.51	-12.54	-94.41	-52.21	-171.48	27.13
	-138.63	-15.05	-105.97	-59.09	-192.48	28.99
	-143.67	-16.41	-109.82	-61.64	-199.48	28.83
	-143.67	-16.41	-109.82	-61.64	-199.48	28.83
	-138.63	-16.61	-105.97	-59.87	-192.48	26.64
	-123.51	-15.67	-94.41	-53.77	-171.48	22.44
	-98.30	-13.57	-75.14	-43.35	-136.49	16.21
	-63.01	-10.32	-48.17	-28.60	-87.49	7.95
	-17.64	-5.93	-13.49	-9.53	-24.50	-2.33
	-0.38	37.81	13.88	28.90	-14.63	52.49
	6.33	103.34	41.60	78.99	-28.95	143.49
	14.18	178.96	73.65	136.79	-45.29	248.47
	23.18	264.66	110.03	202.30	-63.66	367.46
2.15	36.98	258.93	114.85	198.02	-40.89	359.49
	26.50	175.09	78.41	133.90	-25.40	243.08
	17.17	101.11	46.21	77.32	-11.88	140.37
	8.97	36.99	18.25	28.29	-0.31	51.36
	-17.26	1.91	-13.20	-5.47	-23.97	9.30
	-61.65	-4.00	-47.15	-24.94	-85.59	16.94
	-96.17	-8.77	-73.55	-40.18	-133.52	22.63
	-120.83	-12.41	-92.41	-51.17	-167.76	26.36
	-135.63	-14.90	-103.72	-57.92	-188.30	28.12
	-140.56	-16.25	-107.49	-60.44	-195.15	27.93
	-140.56	-16.25	-107.49	-60.44	-195.15	27.93
	-135.63	-16.46	-103.72	-58.71	-188.30	25.78
	-120.83	-15.54	-92.41	-52.74	-167.76	21.66
	-96.17	-13.47	-73.55	-42.52	-133.52	15.59
	-61.65	-10.26	-47.15	-28.07	-85.59	7.56
	-17.26	-5.91	-13.20	-9.38	-23.97	-2.44
	-0.42	36.99	13.56	28.29	-14.39	51.36
	6.22	101.11	40.73	77.32	-28.30	140.37
	13.99	175.09	72.15	133.90	-44.17	243.08
	22.90	258.93	107.81	198.02	-62.01	359.49
2.20	36.71	253.46	112.73	193.93	-39.31	351.87
	26.32	171.39	76.98	131.13	-24.33	237.93
	17.06	98.97	45.38	75.72	-11.26	137.40
	8.93	36.21	17.95	27.70	-0.09	50.27
	-16.90	1.93	-12.93	-5.33	-23.46	9.19

	-60.35	-3.94	-46.17	-24.44	-83.78	16.57
	-94.14	-8.68	-72.03	-39.39	-130.70	22.04
	-118.28	-12.28	-90.50	-50.18	-164.21	25.62
	-132.76	-14.76	-101.58	-56.82	-184.31	27.29
	-137.59	-16.11	-105.28	-59.29	-191.02	27.07
	-137.59	-16.11	-105.28	-59.29	-191.02	27.07
	-132.76	-16.33	-101.58	-57.60	-184.31	24.95
	-118.28	-15.41	-90.50	-51.75	-164.21	20.93
	-94.14	-13.37	-72.03	-41.74	-130.70	15.00
	-60.35	-10.19	-46.17	-27.57	-83.78	7.18
	-16.90	-5.89	-12.93	-9.24	-23.46	-2.54
	-0.45	36.21	13.26	27.70	-14.16	50.27
	6.11	98.97	39.91	75.72	-27.68	137.40
	13.81	171.39	70.72	131.13	-43.10	237.93
	22.63	253.46	105.69	193.93	-60.43	351.87
2.25	37.61	249.39	111.87	191.18	-36.64	346.16
	26.93	168.63	76.39	129.28	-22.53	234.07
	17.41	97.38	45.04	74.65	-10.22	135.17
	9.06	35.63	17.82	27.31	0.30	49.45
	-16.63	1.87	-12.75	-5.27	-23.08	9.01
	-59.38	-4.15	-45.52	-24.23	-82.42	15.93
	-92.63	-9.01	-71.01	-39.07	-128.58	21.05
	-116.38	-12.70	-89.22	-49.78	-161.54	24.37
	-130.63	-15.23	-100.14	-56.36	-181.32	25.90
	-135.38	-16.60	-103.78	-58.82	-187.92	25.62
	-135.38	-16.60	-103.78	-58.82	-187.92	25.62
	-130.63	-16.80	-100.14	-57.14	-181.32	23.55
	-116.38	-15.83	-89.22	-51.34	-161.54	19.68
	-92.63	-13.70	-71.01	-41.42	-128.58	14.01
	-59.38	-10.41	-45.52	-27.36	-82.42	6.54
	-16.63	-5.95	-12.75	-9.18	-23.08	-2.72
	-0.32	35.63	13.13	27.31	-13.78	49.45
	6.46	97.38	39.57	74.65	-26.64	135.17
	14.42	168.63	70.14	129.28	-41.30	234.07
	23.54	249.39	104.83	191.18	-57.75	346.16
2.30	37.37	244.38	109.93	187.44	-35.20	339.20
	26.76	165.25	75.08	126.75	-21.55	229.36
	17.32	95.43	44.29	73.19	-9.65	132.45
	9.02	34.91	17.55	26.78	0.50	48.46
	-16.29	1.89	-12.50	-5.14	-22.61	8.92
	-58.19	-4.09	-44.63	-23.77	-80.76	15.59
	-90.77	-8.92	-69.62	-38.35	-125.99	20.51
	-114.04	-12.59	-87.47	-48.88	-158.29	23.70
	-128.01	-15.10	-98.18	-55.35	-177.68	25.14
	-132.66	-16.46	-101.75	-57.76	-184.14	24.84

	-132.66	-16.46	-101.75	-57.76	-184.14	24.84
	-128.01	-16.67	-98.18	-56.13	-177.68	22.79
	-114.04	-15.72	-87.47	-50.44	-158.29	19.01
	-90.77	-13.61	-69.62	-40.70	-125.99	13.48
	-58.19	-10.35	-44.63	-26.90	-80.76	6.20
	-16.29	-5.93	-12.50	-9.05	-22.61	-2.82
	-0.36	34.91	12.85	26.78	-13.58	48.46
	6.37	95.43	38.81	73.19	-26.08	132.45
	14.25	165.25	68.82	126.75	-40.32	229.36
	23.29	244.38	102.89	187.44	-56.31	339.20
2.35	37.13	239.59	108.07	183.86	-33.82	332.53
	26.60	162.01	73.83	124.33	-20.62	224.86
	17.22	93.55	43.56	71.79	-9.12	129.85
	8.99	34.23	17.28	26.27	0.70	47.50
	-15.97	1.90	-12.26	-5.01	-22.17	8.82
	-57.05	-4.04	-43.78	-23.33	-79.17	15.26
	-88.99	-8.83	-68.29	-37.66	-123.51	20.00
	-111.81	-12.48	-85.80	-48.01	-155.18	23.05
	-125.50	-14.98	-96.31	-54.37	-174.18	24.42
	-130.06	-16.33	-99.81	-56.76	-180.52	24.09
	-130.06	-16.33	-99.81	-56.76	-180.52	24.09
	-125.50	-16.54	-96.31	-55.16	-174.18	22.07
	-111.81	-15.61	-85.80	-49.57	-155.18	18.36
	-88.99	-13.52	-68.29	-40.01	-123.51	12.96
	-57.05	-10.29	-43.78	-26.46	-79.17	5.87
	-15.97	-5.92	-12.26	-8.93	-22.17	-2.91
	-0.39	34.23	12.59	26.27	-13.38	47.50
	6.27	93.55	38.09	71.79	-25.54	129.85
	14.09	162.01	67.57	124.33	-39.39	224.86
	23.05	239.59	101.03	183.86	-54.93	332.53
2.40	36.90	235.00	106.29	180.43	-32.49	326.15
	26.45	158.90	72.62	122.01	-19.72	220.54
	17.14	91.76	42.87	70.45	-8.60	127.35
	8.96	33.57	17.03	25.78	0.89	46.59
	-15.67	1.92	-12.03	-4.90	-21.74	8.74
	-55.95	-3.98	-42.96	-22.91	-77.65	14.94
	-87.29	-8.75	-67.02	-37.00	-121.14	19.51
	-109.67	-12.37	-84.20	-47.18	-152.20	22.44
	-123.09	-14.86	-94.51	-53.44	-170.84	23.72
	-127.57	-16.21	-97.95	-55.79	-177.05	23.37
	-127.57	-16.21	-97.95	-55.79	-177.05	23.37
	-123.09	-16.42	-94.51	-54.23	-170.84	21.38
	-109.67	-15.50	-84.20	-48.74	-152.20	17.74
	-87.29	-13.44	-67.02	-39.35	-121.14	12.47
	-55.95	-10.24	-42.96	-26.03	-77.65	5.56

	-15.67	-5.90	-12.03	-8.81	-21.74	-3.00
	-0.43	33.57	12.34	25.78	-13.19	46.59
	6.19	91.76	37.39	70.45	-25.02	127.35
	13.94	158.90	66.37	122.01	-38.49	220.54
	22.82	235.00	99.26	180.43	-53.61	326.15
	36.69	230.60	104.59	177.14	-31.22	320.02
	26.30	155.93	71.47	119.78	-18.86	216.40
	17.05	90.04	42.20	69.17	-8.10	124.96
	8.93	32.94	16.78	25.31	1.07	45.72
	-15.37	1.93	-11.81	-4.78	-21.33	8.65
	-54.90	-3.93	-42.18	-22.50	-76.20	14.64
	-85.65	-8.67	-65.80	-36.37	-118.86	19.04
	-107.61	-12.27	-82.67	-46.38	-149.34	21.84
	-120.79	-14.75	-92.79	-52.55	-167.63	23.06
	-125.18	-16.09	-96.16	-54.87	-173.73	22.68
	-125.18	-16.09	-96.16	-54.87	-173.73	22.68
	-120.79	-16.31	-92.79	-53.33	-167.63	20.71
	-107.61	-15.40	-82.67	-47.95	-149.34	17.15
	-85.65	-13.36	-65.80	-38.71	-118.86	12.00
	-54.90	-10.19	-42.18	-25.63	-76.20	5.25
	-15.37	-5.89	-11.81	-8.69	-21.33	-3.08
	-0.46	32.94	12.09	25.31	-13.01	45.72
	6.10	90.04	36.73	69.17	-24.52	124.96
	13.79	155.93	65.21	119.78	-37.63	216.40
	22.61	230.60	97.55	177.14	-52.33	320.02
	37.60	227.49	104.08	175.11	-28.87	315.66
	26.92	153.83	71.13	118.41	-17.28	213.45
	17.41	88.83	42.00	68.38	-7.19	123.26
	9.06	32.50	16.71	25.02	1.41	45.09
	-15.17	1.87	-11.67	-4.75	-21.04	8.49
	-54.17	-4.15	-41.69	-22.38	-75.16	14.08
	-84.50	-9.01	-65.04	-36.18	-117.24	18.17
	-106.16	-12.70	-81.72	-46.15	-147.31	20.75
	-119.16	-15.23	-91.72	-52.28	-165.35	21.83
	-123.50	-16.59	-95.06	-54.59	-171.36	21.41
	-123.50	-16.59	-95.06	-54.59	-171.36	21.41
	-119.16	-16.79	-91.72	-53.06	-165.35	19.48
	-106.16	-15.83	-81.72	-47.71	-147.31	16.06
	-84.50	-13.70	-65.04	-38.52	-117.24	11.13
	-54.17	-10.41	-41.69	-25.51	-75.16	4.70
	-15.17	-5.95	-11.67	-8.66	-21.04	-3.24
	-0.33	32.50	12.02	25.02	-12.67	45.09
	6.46	88.83	36.53	68.38	-23.61	123.26
	14.41	153.83	64.87	118.41	-36.05	213.45
	23.53	227.49	97.04	175.11	-49.99	315.66

2.55	37.40	223.43	102.50	172.07	-27.70	310.00
	26.79	151.08	70.06	116.35	-16.49	209.62
	17.33	87.24	41.39	67.19	-6.73	121.05
	9.03	31.92	16.49	24.58	1.57	44.29
	-14.90	1.89	-11.47	-4.64	-20.67	8.42
	-53.20	-4.10	-40.97	-22.00	-73.81	13.80
	-82.99	-8.93	-63.91	-35.59	-115.14	17.73
	-104.27	-12.60	-80.30	-45.41	-144.67	20.20
	-117.03	-15.12	-90.13	-51.46	-162.38	21.22
	-121.29	-16.48	-93.41	-53.73	-168.29	20.77
	-121.29	-16.48	-93.41	-53.73	-168.29	20.77
	-117.03	-16.69	-90.13	-52.24	-162.38	18.87
	-104.27	-15.73	-80.30	-46.97	-144.67	15.51
	-82.99	-13.62	-63.91	-37.94	-115.14	10.69
	-53.20	-10.36	-40.97	-25.13	-73.81	4.42
	-14.90	-5.93	-11.47	-8.55	-20.67	-3.31
	-0.36	31.92	11.79	24.58	-12.50	44.29
	6.38	87.24	35.91	67.19	-23.15	121.05
	14.27	151.08	63.80	116.35	-35.26	209.62
	23.32	223.43	95.46	172.07	-48.82	310.00
2.60	37.21	219.52	100.99	169.15	-26.58	304.57
	26.66	148.44	69.04	114.38	-15.73	205.95
	17.25	85.72	40.80	66.05	-6.29	118.93
	9.00	31.36	16.27	24.16	1.73	43.51
	-14.63	1.90	-11.28	-4.54	-20.30	8.34
	-52.27	-4.05	-40.27	-21.64	-72.52	13.53
	-81.54	-8.86	-62.83	-35.03	-113.13	17.31
	-102.44	-12.51	-78.94	-44.70	-142.13	19.68
	-114.99	-15.02	-88.60	-50.66	-159.54	20.63
	-119.17	-16.38	-91.83	-52.91	-165.34	20.16
	-119.17	-16.38	-91.83	-52.91	-165.34	20.16
	-114.99	-16.58	-88.60	-51.45	-159.54	18.28
	-102.44	-15.64	-78.94	-46.27	-142.13	14.98
	-81.54	-13.55	-62.83	-37.38	-113.13	10.27
	-52.27	-10.31	-40.27	-24.77	-72.52	4.15
	-14.63	-5.92	-11.28	-8.45	-20.30	-3.39
	-0.38	31.36	11.58	24.16	-12.34	43.51
	6.30	85.72	35.32	66.05	-22.71	118.93
	14.14	148.44	62.78	114.38	-34.50	205.95
	23.13	219.52	93.95	169.15	-47.69	304.57
2.65	37.02	215.76	99.53	166.34	-25.49	299.34
	26.53	145.90	68.05	112.48	-14.99	202.41
	17.18	84.25	40.23	64.95	-5.87	116.88
	8.98	30.82	16.06	23.76	1.89	42.76
	-14.38	1.91	-11.09	-4.45	-19.96	8.27

	-51.37	-4.01	-39.61	-21.30	-71.27	13.28
	-80.14	-8.79	-61.79	-34.49	-111.18	16.91
	-100.69	-12.43	-77.63	-44.02	-139.69	19.17
	-113.02	-14.92	-87.13	-49.90	-156.80	20.06
	-117.13	-16.28	-90.30	-52.12	-162.50	19.57
	-117.13	-16.28	-90.30	-52.12	-162.50	19.57
	-113.02	-16.49	-87.13	-50.68	-156.80	17.71
	-100.69	-15.56	-77.63	-45.59	-139.69	14.48
	-80.14	-13.48	-61.79	-36.84	-111.18	9.87
	-51.37	-10.27	-39.61	-24.42	-71.27	3.89
	-14.38	-5.91	-11.09	-8.36	-19.96	-3.46
	-0.41	30.82	11.37	23.76	-12.19	42.76
	6.23	84.25	34.75	64.95	-22.29	116.88
	14.02	145.90	61.80	112.48	-33.76	202.41
	22.94	215.76	92.49	166.34	-46.61	299.34
	36.95	212.26	98.24	163.75	-24.34	294.45
	26.48	143.53	67.18	110.73	-14.21	199.11
	17.15	82.88	39.72	63.94	-5.41	114.98
	8.97	30.32	15.88	23.39	2.05	42.06
	-14.15	1.92	-10.92	-4.36	-19.63	8.19
	-50.54	-3.99	-38.99	-20.99	-70.11	13.00
	-78.84	-8.76	-60.82	-34.01	-109.37	16.48
	-99.05	-12.40	-76.42	-43.42	-137.41	18.63
	-111.18	-14.89	-85.77	-49.23	-154.24	19.45
	-115.22	-16.24	-88.89	-51.42	-159.85	18.94
	-115.22	-16.24	-88.89	-51.42	-159.85	18.94
	-111.18	-16.45	-85.77	-50.01	-154.24	17.11
	-99.05	-15.52	-76.42	-44.99	-137.41	13.94
	-78.84	-13.46	-60.82	-36.36	-109.37	9.44
	-50.54	-10.25	-38.99	-24.12	-70.11	3.62
	-14.15	-5.90	-10.92	-8.27	-19.63	-3.54
	-0.42	30.32	11.19	23.39	-12.02	42.06
	6.21	82.88	34.25	63.94	-21.84	114.98
	13.97	143.53	60.92	110.73	-32.98	199.11
	22.87	212.26	91.20	163.75	-45.46	294.45
	36.78	208.77	96.89	161.15	-23.33	289.60
	26.37	141.17	66.27	108.97	-13.53	195.83
	17.09	81.52	39.20	62.92	-5.02	113.08
	8.94	29.82	15.69	23.02	2.20	41.37
	-13.92	1.93	-10.74	-4.27	-19.31	8.12
	-49.71	-3.95	-38.37	-20.67	-68.95	12.76
	-77.54	-8.70	-59.85	-33.51	-107.57	16.11
	-97.43	-12.32	-75.20	-42.79	-135.15	18.16
	-109.36	-14.80	-84.41	-48.52	-151.70	18.93
	-113.33	-16.15	-87.48	-50.69	-157.21	18.40

	-113.33	-16.15	-87.48	-50.69	-157.21	18.40
	-109.36	-16.36	-84.41	-49.30	-151.70	16.58
	-97.43	-15.44	-75.20	-44.36	-135.15	13.47
	-77.54	-13.39	-59.85	-35.85	-107.57	9.07
	-49.71	-10.21	-38.37	-23.80	-68.95	3.38
	-13.92	-5.89	-10.74	-8.18	-19.31	-3.61
	-0.44	29.82	10.99	23.02	-11.88	41.37
	6.14	81.52	33.72	62.92	-21.45	113.08
	13.85	141.17	60.01	108.97	-32.30	195.83
	22.70	208.77	89.85	161.15	-44.45	289.60
2.80	36.62	205.41	95.59	158.64	-22.36	284.93
	26.26	138.89	65.39	107.27	-12.87	192.66
	17.02	80.21	38.69	61.94	-4.64	111.26
	8.92	29.34	15.50	22.66	2.34	40.70
	-13.69	1.94	-10.58	-4.18	-19.00	8.06
	-48.91	-3.91	-37.77	-20.36	-67.84	12.53
	-76.29	-8.64	-58.92	-33.03	-105.83	15.75
	-95.86	-12.24	-74.03	-42.18	-132.97	17.71
	-107.59	-14.71	-83.09	-47.84	-149.25	18.42
	-111.51	-16.06	-86.12	-49.98	-154.67	17.87
	-111.51	-16.06	-86.12	-49.98	-154.67	17.87
	-107.59	-16.27	-83.09	-48.62	-149.25	16.07
	-95.86	-15.37	-74.03	-43.75	-132.97	13.02
	-76.29	-13.33	-58.92	-35.37	-105.83	8.71
	-48.91	-10.17	-37.77	-23.49	-67.84	3.15
	-13.69	-5.88	-10.58	-8.09	-19.00	-3.67
	-0.47	29.34	10.81	22.66	-11.74	40.70
	6.07	80.21	33.21	61.94	-21.07	111.26
	13.74	138.89	59.13	107.27	-31.64	192.66
	22.54	205.41	88.55	158.64	-43.48	284.93
2.85	36.46	202.16	94.34	156.21	-21.42	280.41
	26.15	136.70	64.54	105.63	-12.24	189.61
	16.96	78.94	38.20	61.00	-4.28	109.50
	8.90	28.88	15.32	22.32	2.47	40.06
	-13.48	1.95	-10.41	-4.10	-18.69	8.00
	-48.13	-3.88	-37.19	-20.06	-66.77	12.31
	-75.09	-8.58	-58.02	-32.56	-104.15	15.40
	-94.34	-12.16	-72.90	-41.60	-130.86	17.27
	-105.90	-14.63	-81.83	-47.18	-146.88	17.93
	-109.75	-15.97	-84.80	-49.30	-152.22	17.36
	-109.75	-15.97	-84.80	-49.30	-152.22	17.36
	-105.90	-16.19	-81.83	-47.96	-146.88	15.58
	-94.34	-15.29	-72.90	-43.16	-130.86	12.58
	-75.09	-13.27	-58.02	-34.91	-104.15	8.36
	-48.13	-10.13	-37.19	-23.19	-66.77	2.92

	-13.48	-5.87	-10.41	-8.01	-18.69	-3.73
	-0.49	28.88	10.63	22.32	-11.61	40.06
	6.01	78.94	32.72	61.00	-20.70	109.50
	13.64	136.70	58.28	105.63	-31.01	189.61
	22.38	202.16	87.30	156.21	-42.54	280.41
	36.30	199.03	93.13	153.87	-20.52	276.06
	26.05	134.58	63.72	104.05	-11.63	186.67
	16.90	77.72	37.73	60.08	-3.92	107.79
	8.87	28.43	15.15	21.98	2.60	39.44
	-13.27	1.96	-10.26	-4.02	-18.40	7.94
	-47.39	-3.84	-36.64	-19.77	-65.73	12.09
	-73.93	-8.52	-57.15	-32.11	-102.54	15.06
	-92.88	-12.09	-71.81	-41.03	-128.83	16.85
	-104.26	-14.55	-80.60	-46.55	-144.60	17.45
	-108.05	-15.89	-83.53	-48.64	-149.86	16.87
	-108.05	-15.89	-83.53	-48.64	-149.86	16.87
	-104.26	-16.11	-80.60	-47.33	-144.60	15.10
	-92.88	-15.22	-71.81	-42.60	-128.83	12.16
	-73.93	-13.22	-57.15	-34.46	-102.54	8.02
	-47.39	-10.10	-36.64	-22.90	-65.73	2.71
	-13.27	-5.86	-10.26	-7.93	-18.40	-3.79
	-0.51	28.43	10.45	21.98	-11.48	39.44
	5.95	77.72	32.25	60.08	-20.35	107.79
	13.53	134.58	57.46	104.05	-30.40	186.67
	22.23	199.03	86.09	153.87	-41.63	276.06
2.90	36.16	196.01	91.96	151.62	-19.64	271.85
	25.95	132.54	62.93	102.52	-11.03	183.82
	16.85	76.54	37.27	59.20	-3.58	106.15
	8.85	28.00	14.98	21.66	2.72	38.84
	-13.07	1.97	-10.11	-3.94	-18.12	7.88
	-46.67	-3.81	-36.10	-19.49	-64.73	11.88
	-72.80	-8.47	-56.31	-31.68	-100.97	14.74
	-91.47	-12.03	-70.75	-40.49	-126.86	16.44
	-102.67	-14.47	-79.42	-45.93	-142.40	16.99
	-106.41	-15.81	-82.31	-48.01	-147.58	16.39
	-106.41	-15.81	-82.31	-48.01	-147.58	16.39
	-102.67	-16.04	-79.42	-46.72	-142.40	14.64
	-91.47	-15.15	-70.75	-42.05	-126.86	11.75
	-72.80	-13.16	-56.31	-34.02	-100.97	7.70
	-46.67	-10.06	-36.10	-22.62	-64.73	2.50
	-13.07	-5.85	-10.11	-7.85	-18.12	-3.85
	-0.53	28.00	10.29	21.66	-11.35	38.84
	5.90	76.54	31.80	59.20	-20.00	106.15
	13.43	132.54	56.67	102.52	-29.80	183.82
	22.08	196.01	84.92	151.62	-40.76	271.85
2.95						

3.00	36.02	193.09	90.83	149.43	-18.79	267.79
	25.85	130.56	62.17	101.05	-10.46	181.07
	16.79	75.40	36.83	58.35	-3.25	104.56
	8.83	27.58	14.82	21.35	2.85	38.26
	-12.87	1.98	-9.96	-3.87	-17.85	7.82
	-45.97	-3.77	-35.58	-19.22	-63.76	11.68
	-71.72	-8.42	-55.50	-31.26	-99.46	14.42
	-90.11	-11.96	-69.74	-39.96	-124.97	16.04
	-101.14	-14.40	-78.27	-45.34	-140.27	16.55
	-104.82	-15.73	-81.12	-47.40	-145.37	15.93
	-104.82	-15.73	-81.12	-47.40	-145.37	15.93
	-101.14	-15.96	-78.27	-46.12	-140.27	14.20
	-90.11	-15.09	-69.74	-41.53	-124.97	11.35
	-71.72	-13.11	-55.50	-33.60	-99.46	7.38
	-45.97	-10.03	-35.58	-22.35	-63.76	2.30
	-12.87	-5.84	-9.96	-7.78	-17.85	-3.91
	-0.55	27.58	10.13	21.35	-11.23	38.26
	5.84	75.40	31.35	58.35	-19.67	104.56
	13.34	130.56	55.91	101.05	-29.23	181.07
	21.94	193.09	83.79	149.43	-39.91	267.79
3.05	35.88	190.26	89.74	147.32	-17.97	263.85
	25.76	128.65	61.43	99.62	-9.91	178.42
	16.74	74.29	36.40	57.53	-2.93	103.03
	8.81	27.18	14.66	21.05	2.96	37.69
	-12.68	1.99	-9.82	-3.79	-17.59	7.77
	-45.30	-3.74	-35.08	-18.96	-62.82	11.49
	-70.67	-8.37	-54.72	-30.85	-98.00	14.12
	-88.79	-11.90	-68.75	-39.45	-123.13	15.66
	-99.66	-14.33	-77.17	-44.77	-138.21	16.12
	-103.29	-15.66	-79.98	-46.80	-143.24	15.49
	-103.29	-15.66	-79.98	-46.80	-143.24	15.49
	-99.66	-15.89	-77.17	-45.55	-138.21	13.77
	-88.79	-15.02	-68.75	-41.02	-123.13	10.97
	-70.67	-13.06	-54.72	-33.20	-98.00	7.08
	-45.30	-10.00	-35.08	-22.09	-62.82	2.10
	-12.68	-5.83	-9.82	-7.70	-17.59	-3.96
	-0.57	27.18	9.97	21.05	-11.11	37.69
	5.79	74.29	30.93	57.53	-19.35	103.03
	13.25	128.65	55.17	99.62	-28.68	178.42
	21.80	190.26	82.70	147.32	-39.09	263.85
3.10	36.93	188.71	89.86	146.46	-16.00	261.64
	26.47	127.60	61.51	99.04	-8.57	176.92
	17.15	73.69	36.45	57.19	-2.16	102.17
	8.96	26.96	14.68	20.92	3.24	37.38
	-12.58	1.92	-9.76	-3.80	-17.44	7.64

	-44.93	-3.99	-34.87	-18.99	-62.30	11.02
	-70.09	-8.76	-54.40	-30.90	-97.18	13.38
	-88.06	-12.39	-68.35	-39.51	-122.10	14.74
	-98.85	-14.88	-76.72	-44.83	-137.05	15.08
	-102.44	-16.23	-79.51	-46.87	-142.03	14.42
	-102.44	-16.23	-79.51	-46.87	-142.03	14.42
	-98.85	-16.44	-76.72	-45.62	-137.05	12.74
	-88.06	-15.51	-68.35	-41.07	-122.10	10.05
	-70.09	-13.45	-54.40	-33.24	-97.18	6.34
	-44.93	-10.25	-34.87	-22.12	-62.30	1.63
	-12.58	-5.90	-9.76	-7.71	-17.44	-4.10
	-0.42	26.96	9.99	20.92	-10.83	37.38
	6.20	73.69	30.98	57.19	-18.58	102.17
	13.96	127.60	55.25	99.04	-27.34	176.92
	22.85	188.71	82.82	146.46	-37.11	261.64
3.15	36.80	186.06	88.83	144.48	-15.23	257.95
	26.38	125.81	60.82	97.70	-8.05	174.43
	17.10	72.65	36.05	56.42	-1.86	100.73
	8.94	26.58	14.53	20.64	3.35	36.85
	-12.40	1.93	-9.63	-3.73	-17.20	7.58
	-44.30	-3.96	-34.40	-18.75	-61.42	10.83
	-69.11	-8.71	-53.66	-30.51	-95.81	13.10
	-86.83	-12.32	-67.42	-39.03	-120.38	14.38
	-97.46	-14.81	-75.68	-44.30	-135.12	14.68
	-101.00	-16.16	-78.43	-46.31	-140.03	14.00
	-101.00	-16.16	-78.43	-46.31	-140.03	14.00
	-97.46	-16.37	-75.68	-45.08	-135.12	12.34
	-86.83	-15.45	-67.42	-40.60	-120.38	9.69
	-69.11	-13.40	-53.66	-32.86	-95.81	6.06
	-44.30	-10.21	-34.40	-21.88	-61.42	1.45
	-12.40	-5.89	-9.63	-7.64	-17.20	-4.15
	-0.44	26.58	9.84	20.64	-10.72	36.85
	6.15	72.65	30.58	56.42	-18.28	100.73
	13.87	125.81	54.56	97.70	-26.82	174.43
	22.72	186.06	81.79	144.48	-36.35	257.95
3.20	36.68	183.49	87.84	142.56	-14.49	254.38
	26.30	124.07	60.15	96.40	-7.55	172.01
	17.05	71.65	35.66	55.67	-1.57	99.33
	8.93	26.21	14.39	20.37	3.46	36.34
	-12.23	1.93	-9.50	-3.67	-16.96	7.54
	-43.69	-3.93	-33.94	-18.51	-60.57	10.66
	-68.15	-8.66	-52.95	-30.15	-94.49	12.82
	-85.63	-12.27	-66.53	-38.57	-118.71	14.03
	-96.11	-14.74	-74.68	-43.78	-133.25	14.29
	-99.61	-16.09	-77.39	-45.77	-138.09	13.60

	-99.61	-16.09	-77.39	-45.77	-138.09	13.60
	-96.11	-16.31	-74.68	-44.56	-133.25	11.95
	-85.63	-15.39	-66.53	-40.13	-118.71	9.34
	-68.15	-13.35	-52.95	-32.49	-94.49	5.78
	-43.69	-10.18	-33.94	-21.64	-60.57	1.27
	-12.23	-5.89	-9.50	-7.58	-16.96	-4.20
	-0.46	26.21	9.70	20.37	-10.62	36.34
	6.10	71.65	30.19	55.67	-17.99	99.33
	13.78	124.07	53.89	96.40	-26.32	172.01
	22.60	183.49	80.80	142.56	-35.60	254.38
3.25	36.56	181.00	86.88	140.71	-13.77	250.92
	26.22	122.39	59.50	95.14	-7.06	169.67
	17.00	70.68	35.29	54.94	-1.29	97.98
	8.91	25.86	14.25	20.10	3.56	35.85
	-12.07	1.94	-9.38	-3.60	-16.73	7.49
	-43.10	-3.90	-33.50	-18.28	-59.74	10.48
	-67.23	-8.62	-52.26	-29.79	-93.20	12.55
	-84.47	-12.21	-65.66	-38.12	-117.10	13.70
	-94.81	-14.68	-73.70	-43.27	-131.44	13.92
	-98.26	-16.02	-76.38	-45.25	-136.22	13.21
	-98.26	-16.02	-76.38	-45.25	-136.22	13.21
	-94.81	-16.24	-73.70	-44.06	-131.44	11.57
	-84.47	-15.34	-65.66	-39.68	-117.10	9.01
	-67.23	-13.31	-52.26	-32.14	-93.20	5.52
	-43.10	-10.16	-33.50	-21.41	-59.74	1.10
	-12.07	-5.88	-9.38	-7.51	-16.73	-4.24
	-0.48	25.86	9.56	20.10	-10.51	35.85
	6.05	70.68	29.81	54.94	-17.71	97.98
	13.70	122.39	53.24	95.14	-25.83	169.67
	22.48	181.00	79.84	140.71	-34.88	250.92
3.30	37.61	179.76	87.11	140.07	-11.90	249.14
	26.93	121.55	59.65	94.71	-5.80	168.47
	17.41	70.19	35.38	54.69	-0.56	97.28
	9.06	25.68	14.29	20.01	3.83	35.59
	-11.98	1.87	-9.34	-3.62	-16.61	7.36
	-42.80	-4.15	-33.35	-18.34	-59.32	10.04
	-66.77	-9.01	-52.03	-29.88	-92.54	11.86
	-83.89	-12.70	-65.37	-38.23	-116.27	12.83
	-94.16	-15.23	-73.37	-43.40	-130.50	12.94
	-97.58	-16.59	-76.04	-45.38	-135.25	12.19
	-97.58	-16.59	-76.04	-45.38	-135.25	12.19
	-94.16	-16.79	-73.37	-44.18	-130.50	10.59
	-83.89	-15.83	-65.37	-39.79	-116.27	8.14
	-66.77	-13.70	-52.03	-32.22	-92.54	4.82
	-42.80	-10.41	-33.35	-21.47	-59.32	0.66

	-11.98	-5.95	-9.34	-7.53	-16.61	-4.37
	-0.33	25.68	9.60	20.01	-10.25	35.59
	6.46	70.19	29.90	54.69	-16.98	97.28
	14.41	121.55	53.40	94.71	-24.57	168.47
	23.53	179.76	80.07	140.07	-33.02	249.14
	37.49	177.41	86.21	138.32	-11.23	245.88
	26.85	119.97	59.04	93.53	-5.35	166.26
	17.36	69.28	35.02	54.01	-0.29	96.01
	9.04	25.34	14.16	19.76	3.93	35.13
	-11.83	1.88	-9.22	-3.56	-16.39	7.32
	-42.24	-4.12	-32.93	-18.12	-58.54	9.88
	-65.90	-8.96	-51.38	-29.54	-91.33	11.61
	-82.79	-12.65	-64.55	-37.80	-114.75	12.51
	-92.93	-15.17	-72.45	-42.92	-128.80	12.58
	-96.31	-16.53	-75.09	-44.89	-133.48	11.83
	-96.31	-16.53	-75.09	-44.89	-133.48	11.83
	-92.93	-16.73	-72.45	-43.70	-128.80	10.24
	-82.79	-15.77	-64.55	-39.37	-114.75	7.82
	-65.90	-13.66	-51.38	-31.89	-91.33	4.57
	-42.24	-10.38	-32.93	-21.25	-58.54	0.49
	-11.83	-5.94	-9.22	-7.47	-16.39	-4.41
	-0.34	25.34	9.47	19.76	-10.15	35.13
	6.42	69.28	29.55	54.01	-16.72	96.01
	14.33	119.97	52.78	93.53	-24.12	166.26
	23.41	177.41	79.17	138.32	-32.34	245.88
	37.38	175.14	85.33	136.62	-10.57	242.72
	26.77	118.43	58.45	92.38	-4.90	164.13
	17.32	68.39	34.68	53.35	-0.04	94.78
	9.03	25.02	14.03	19.52	4.02	34.67
	-11.68	1.89	-9.11	-3.50	-16.18	7.27
	-41.70	-4.10	-32.53	-17.91	-57.79	9.72
	-65.05	-8.92	-50.75	-29.21	-90.15	11.37
	-81.73	-12.59	-63.76	-37.39	-113.27	12.21
	-91.74	-15.11	-71.56	-42.46	-127.14	12.24
	-95.08	-16.47	-74.17	-44.41	-131.76	11.47
	-95.08	-16.47	-74.17	-44.41	-131.76	11.47
	-91.74	-16.67	-71.56	-43.24	-127.14	9.89
	-81.73	-15.72	-63.76	-38.96	-113.27	7.51
	-65.05	-13.62	-50.75	-31.56	-90.15	4.33
	-41.70	-10.35	-32.53	-21.04	-57.79	0.34
	-11.68	-5.93	-9.11	-7.41	-16.18	-4.46
	-0.36	25.02	9.34	19.52	-10.06	34.67
	6.37	68.39	29.21	53.35	-16.46	94.78
	14.26	118.43	52.19	92.38	-23.67	164.13
	23.30	175.14	78.29	136.62	-31.69	242.72

3.45	37.38	173.04	84.58	135.08	-9.83	239.79
	26.77	117.01	57.94	91.34	-4.40	162.15
	17.32	67.57	34.39	52.75	0.25	93.63
	9.03	24.72	13.93	19.30	4.13	34.26
	-11.54	1.89	-9.01	-3.45	-15.99	7.22
	-41.20	-4.09	-32.16	-17.74	-57.09	9.55
	-64.27	-8.92	-50.17	-28.93	-89.07	11.09
	-80.75	-12.59	-63.04	-37.04	-111.90	11.86
	-90.64	-15.11	-70.76	-42.07	-125.61	11.85
	-93.94	-16.47	-73.33	-44.00	-130.17	11.07
	-93.94	-16.47	-73.33	-44.00	-130.17	11.07
	-90.64	-16.67	-70.76	-42.85	-125.61	9.50
	-80.75	-15.72	-63.04	-38.61	-111.90	7.17
	-64.27	-13.61	-50.17	-31.28	-89.07	4.05
	-41.20	-10.35	-32.16	-20.86	-57.09	0.16
	-11.54	-5.93	-9.01	-7.36	-15.99	-4.51
	-0.36	24.72	9.23	19.30	-9.95	34.26
	6.37	67.57	28.91	52.75	-16.17	93.63
	14.26	117.01	51.68	91.34	-23.17	162.15
	23.30	173.04	77.54	135.08	-30.94	239.79
3.50	37.27	170.90	83.75	133.48	-9.21	236.81
	26.70	115.56	57.38	90.26	-3.98	160.13
	17.28	66.73	34.06	52.12	0.49	92.47
	9.01	24.41	13.81	19.07	4.22	33.83
	-11.39	1.89	-8.90	-3.39	-15.79	7.18
	-40.69	-4.07	-31.78	-17.54	-56.38	9.40
	-63.48	-8.88	-49.58	-28.63	-87.96	10.86
	-79.75	-12.54	-62.29	-36.66	-110.51	11.57
	-89.52	-15.05	-69.92	-41.63	-124.04	11.53
	-92.77	-16.41	-72.46	-43.55	-128.55	10.73
	-92.77	-16.41	-72.46	-43.55	-128.55	10.73
	-89.52	-16.62	-69.92	-42.42	-124.04	9.18
	-79.75	-15.67	-62.29	-38.22	-110.51	6.88
	-63.48	-13.58	-49.58	-30.97	-87.96	3.82
	-40.69	-10.33	-31.78	-20.67	-56.38	0.01
	-11.39	-5.93	-8.90	-7.30	-15.79	-4.55
	-0.37	24.41	9.12	19.07	-9.86	33.83
	6.33	66.73	28.59	52.12	-15.93	92.47
	14.19	115.56	51.12	90.26	-22.75	160.13
	23.19	170.90	76.71	133.48	-30.32	236.81
3.55	37.17	168.81	82.94	131.92	-8.60	233.91
	26.63	114.15	56.83	89.21	-3.57	158.17
	17.24	65.92	33.75	51.51	0.73	91.34
	9.00	24.12	13.69	18.85	4.30	33.42
	-11.25	1.90	-8.79	-3.34	-15.59	7.14

	-40.19	-4.05	-31.41	-17.35	-55.69	9.25
	-62.70	-8.85	-49.00	-28.33	-86.88	10.64
	-78.78	-12.50	-61.56	-36.28	-109.16	11.29
	-88.43	-15.00	-69.10	-41.21	-122.53	11.21
	-91.64	-16.36	-71.62	-43.12	-126.98	10.40
	-91.64	-16.36	-71.62	-43.12	-126.98	10.40
	-88.43	-16.56	-69.10	-41.99	-122.53	8.86
	-78.78	-15.63	-61.56	-37.85	-109.16	6.60
	-62.70	-13.54	-49.00	-30.67	-86.88	3.60
	-40.19	-10.30	-31.41	-20.47	-55.69	-0.13
	-11.25	-5.92	-8.79	-7.25	-15.59	-4.59
	-0.39	24.12	9.00	18.85	-9.78	33.42
	6.29	65.92	28.28	51.51	-15.69	91.34
	14.12	114.15	50.58	89.21	-22.34	158.17
	23.09	168.81	75.90	131.92	-29.72	233.91
3.60	37.07	166.79	82.16	130.41	-8.02	231.10
	26.56	112.78	56.30	88.18	-3.18	156.27
	17.20	65.13	33.44	50.92	0.96	90.24
	8.98	23.83	13.58	18.63	4.39	33.01
	-11.12	1.91	-8.69	-3.29	-15.41	7.10
	-39.71	-4.02	-31.05	-17.16	-55.02	9.12
	-61.95	-8.81	-48.44	-28.04	-85.84	10.42
	-77.84	-12.45	-60.86	-35.92	-107.85	11.01
	-87.37	-14.95	-68.31	-40.80	-121.05	10.90
	-90.54	-16.30	-70.79	-42.69	-125.45	10.08
	-90.54	-16.30	-70.79	-42.69	-125.45	10.08
	-87.37	-16.51	-68.31	-41.58	-121.05	8.56
	-77.84	-15.58	-60.86	-37.48	-107.85	6.32
	-61.95	-13.50	-48.44	-30.38	-85.84	3.38
	-39.71	-10.28	-31.05	-20.29	-55.02	-0.27
	-11.12	-5.91	-8.69	-7.20	-15.41	-4.63
	-0.40	23.83	8.89	18.63	-9.69	33.01
	6.25	65.13	27.97	50.92	-15.46	90.24
	14.05	112.78	50.05	88.18	-21.95	156.27
	22.99	166.79	75.12	130.41	-29.13	231.10
3.65	36.98	164.82	81.40	128.94	-7.45	228.36
	26.50	111.45	55.79	87.19	-2.79	154.41
	17.16	64.36	33.15	50.35	1.18	89.17
	8.97	23.55	13.47	18.42	4.47	32.62
	-10.99	1.91	-8.60	-3.24	-15.22	7.07
	-39.24	-4.00	-30.70	-16.98	-54.37	8.98
	-61.22	-8.77	-47.89	-27.75	-84.82	10.21
	-76.92	-12.41	-60.17	-35.56	-106.57	10.75
	-86.34	-14.90	-67.54	-40.40	-119.62	10.60
	-89.47	-16.25	-70.00	-42.28	-123.97	9.77

	-89.47	-16.25	-70.00	-42.28	-123.97	9.77
	-86.34	-16.46	-67.54	-41.19	-119.62	8.26
	-76.92	-15.54	-60.17	-37.13	-106.57	6.06
	-61.22	-13.47	-47.89	-30.10	-84.82	3.17
	-39.24	-10.26	-30.70	-20.11	-54.37	-0.41
	-10.99	-5.91	-8.60	-7.15	-15.22	-4.67
	-0.42	23.55	8.78	18.42	-9.61	32.62
	6.22	64.36	27.67	50.35	-15.24	89.17
	13.99	111.45	49.53	87.19	-21.56	154.41
	22.90	164.82	74.36	128.94	-28.56	228.36
3.70	36.88	162.91	80.66	127.51	-6.89	225.69
	26.44	110.16	55.29	86.22	-2.41	152.61
	17.13	63.61	32.86	49.79	1.40	88.13
	8.96	23.27	13.37	18.22	4.55	32.24
	-10.86	1.92	-8.50	-3.19	-15.05	7.03
	-38.79	-3.98	-30.36	-16.80	-53.74	8.85
	-60.51	-8.74	-47.36	-27.48	-83.83	10.00
	-76.02	-12.36	-59.51	-35.22	-105.32	10.49
	-85.33	-14.85	-66.79	-40.02	-118.22	10.31
	-88.44	-16.20	-69.22	-41.88	-122.52	9.47
	-88.44	-16.20	-69.22	-41.88	-122.52	9.47
	-85.33	-16.42	-66.79	-40.80	-118.22	7.97
	-76.02	-15.49	-59.51	-36.78	-105.32	5.80
	-60.51	-13.43	-47.36	-29.82	-83.83	2.96
	-38.79	-10.23	-30.36	-19.93	-53.74	-0.54
	-10.86	-5.90	-8.50	-7.10	-15.05	-4.70
	-0.43	23.27	8.67	18.22	-9.53	32.24
	6.18	63.61	27.38	49.79	-15.03	88.13
	13.92	110.16	49.03	86.22	-21.18	152.61
	22.81	162.91	73.62	127.51	-28.01	225.69
3.75	36.79	161.04	79.94	126.12	-6.35	223.10
	26.38	108.90	54.80	85.28	-2.05	150.86
	17.09	62.88	32.58	49.25	1.61	87.12
	8.94	23.01	13.26	18.02	4.62	31.87
	-10.74	1.93	-8.41	-3.14	-14.87	6.99
	-38.34	-3.96	-30.03	-16.63	-53.12	8.72
	-59.82	-8.71	-46.84	-27.21	-82.87	9.80
	-75.15	-12.32	-58.86	-34.88	-104.11	10.24
	-84.36	-14.80	-66.06	-39.64	-116.86	10.03
	-87.42	-16.15	-68.46	-41.48	-121.11	9.18
	-87.42	-16.15	-68.46	-41.48	-121.11	9.18
	-84.36	-16.37	-66.06	-40.42	-116.86	7.68
	-75.15	-15.45	-58.86	-36.44	-104.11	5.54
	-59.82	-13.40	-46.84	-29.56	-82.87	2.76
	-38.34	-10.21	-30.03	-19.76	-53.12	-0.67

	-10.74	-5.89	-8.41	-7.05	-14.87	-4.74
	-0.44	23.01	8.57	18.02	-9.45	31.87
	6.14	62.88	27.10	49.25	-14.81	87.12
	13.86	108.90	48.55	85.28	-20.82	150.86
	22.72	161.04	72.90	126.12	-27.47	223.10
	36.71	159.23	79.24	124.77	-5.82	220.58
	26.32	107.67	54.33	84.36	-1.69	149.15
	17.06	62.18	32.30	48.72	1.82	86.13
	8.93	22.75	13.16	17.82	4.70	31.51
	-10.62	1.93	-8.32	-3.09	-14.71	6.96
	-37.91	-3.94	-29.71	-16.46	-52.52	8.59
	-59.14	-8.67	-46.34	-26.95	-81.93	9.60
	-74.31	-12.28	-58.22	-34.55	-102.94	9.99
	-83.41	-14.76	-65.35	-39.27	-115.54	9.75
	-86.44	-16.11	-67.73	-41.10	-119.74	8.89
	-86.44	-16.11	-67.73	-41.10	-119.74	8.89
	-83.41	-16.32	-65.35	-40.05	-115.54	7.41
	-74.31	-15.41	-58.22	-36.12	-102.94	5.30
	-59.14	-13.37	-46.34	-29.30	-81.93	2.56
	-37.91	-10.19	-29.71	-19.59	-52.52	-0.79
	-10.62	-5.89	-8.32	-7.00	-14.71	-4.77
	-0.45	22.75	8.47	17.82	-9.38	31.51
	6.11	62.18	26.83	48.72	-14.61	86.13
	13.81	107.67	48.07	84.36	-20.46	149.15
	22.63	159.23	72.20	124.77	-26.94	220.58
	37.87	158.71	79.80	124.69	-4.06	219.80
	27.10	107.32	54.71	84.31	-0.50	148.63
	17.51	61.97	32.52	48.69	2.50	85.83
	9.10	22.67	13.24	17.81	4.95	31.40
	-10.58	1.86	-8.31	-3.13	-14.65	6.84
	-37.79	-4.21	-29.69	-16.60	-52.33	8.17
	-58.95	-9.10	-46.31	-27.16	-81.64	8.95
	-74.06	-12.82	-58.19	-34.82	-102.57	9.17
	-83.13	-15.37	-65.31	-39.57	-115.13	8.83
	-86.15	-16.74	-67.69	-41.41	-119.32	7.94
	-86.15	-16.74	-67.69	-41.41	-119.32	7.94
	-83.13	-16.93	-65.31	-40.35	-115.13	6.49
	-74.06	-15.95	-58.19	-36.38	-102.57	4.48
	-58.95	-13.80	-46.31	-29.51	-81.64	1.91
	-37.79	-10.47	-29.69	-19.73	-52.33	-1.21
	-10.58	-5.97	-8.31	-7.04	-14.65	-4.89
	-0.29	22.67	8.55	17.81	-9.13	31.40
	6.56	61.97	27.05	48.69	-13.92	85.83
	14.59	107.32	48.45	84.31	-19.27	148.63
	23.79	158.71	72.76	124.69	-25.18	219.80

3.90	37.78	156.98	79.13	123.40	-3.57	217.40
	27.05	106.15	54.26	83.44	-0.17	147.00
	17.48	61.30	32.26	48.19	2.70	84.89
	9.08	22.43	13.15	17.63	5.02	31.06
	-10.47	1.86	-8.23	-3.09	-14.49	6.81
	-37.38	-4.19	-29.38	-16.44	-51.76	8.06
	-58.31	-9.07	-45.84	-26.91	-80.75	8.77
	-73.26	-12.78	-57.59	-34.50	-101.45	8.94
	-82.23	-15.32	-64.64	-39.22	-113.88	8.57
	-85.22	-16.69	-66.99	-41.05	-118.02	7.67
	-85.22	-16.69	-66.99	-41.05	-118.02	7.67
	-82.23	-16.89	-64.64	-40.00	-113.88	6.23
	-73.26	-15.91	-57.59	-36.07	-101.45	4.24
	-58.31	-13.77	-45.84	-29.26	-80.75	1.73
	-37.38	-10.45	-29.38	-19.57	-51.76	-1.33
	-10.47	-5.96	-8.23	-7.00	-14.49	-4.92
	-0.30	22.43	8.46	17.63	-9.06	31.06
	6.53	61.30	26.79	48.19	-13.73	84.89
	14.53	106.15	48.00	83.44	-18.94	147.00
	23.71	156.98	72.09	123.40	-24.68	217.40
3.95	37.70	155.30	78.48	122.15	-3.08	215.07
	26.99	105.01	53.82	82.60	0.16	145.43
	17.45	60.64	32.01	47.70	2.89	83.98
	9.07	22.19	13.06	17.45	5.09	30.72
	-10.35	1.87	-8.14	-3.04	-14.34	6.77
	-36.98	-4.17	-29.08	-16.28	-51.21	7.94
	-57.68	-9.04	-45.37	-26.67	-79.88	8.58
	-72.47	-12.75	-57.00	-34.20	-100.36	8.71
	-81.35	-15.28	-63.98	-38.88	-112.65	8.32
	-84.31	-16.65	-66.31	-40.69	-116.75	7.40
	-84.31	-16.65	-66.31	-40.69	-116.75	7.40
	-81.35	-16.84	-63.98	-39.66	-112.65	5.97
	-72.47	-15.87	-57.00	-35.77	-100.36	4.02
	-57.68	-13.74	-45.37	-29.02	-79.88	1.55
	-36.98	-10.43	-29.08	-19.41	-51.21	-1.45
	-10.35	-5.95	-8.14	-6.95	-14.34	-4.96
	-0.31	22.19	8.36	17.45	-8.99	30.72
	6.50	60.64	26.53	47.70	-13.54	83.98
	14.48	105.01	47.56	82.60	-18.61	145.43
	23.62	155.30	71.45	122.15	-24.20	215.07
4.00	37.62	153.67	77.85	120.93	-2.60	212.79
	26.94	103.91	53.39	81.77	0.48	143.88
	17.42	60.00	31.76	47.22	3.07	83.09
	9.06	21.95	12.97	17.28	5.16	30.40
	-10.24	1.87	-8.06	-3.00	-14.19	6.74

	-36.59	-4.15	-28.79	-16.13	-50.66	7.83
	-57.08	-9.01	-44.92	-26.44	-79.04	8.41
	-71.71	-12.71	-56.43	-33.91	-99.30	8.49
	-80.49	-15.24	-63.34	-38.54	-111.46	8.07
	-83.42	-16.60	-65.65	-40.35	-115.51	7.15
	-83.42	-16.60	-65.65	-40.35	-115.51	7.15
	-80.49	-16.80	-63.34	-39.33	-111.46	5.72
	-71.71	-15.84	-56.43	-35.47	-99.30	3.80
	-57.08	-13.71	-44.92	-28.78	-79.04	1.37
	-36.59	-10.41	-28.79	-19.26	-50.66	-1.56
	-10.24	-5.95	-8.06	-6.91	-14.19	-4.99
	-0.32	21.95	8.27	17.28	-8.92	30.40
	6.47	60.00	26.29	47.22	-13.35	83.09
	14.42	103.91	47.13	81.77	-18.29	143.88
	23.55	153.67	70.81	120.93	-23.72	212.79
4.05	38.78	153.31	78.47	120.97	-0.90	212.24
	27.72	103.66	53.81	81.80	1.63	143.51
	17.87	59.86	32.00	47.24	3.74	82.87
	9.23	21.90	13.05	17.28	5.40	30.32
	-10.22	1.79	-8.06	-3.04	-14.15	6.63
	-36.50	-4.43	-28.80	-16.28	-50.53	7.42
	-56.94	-9.44	-44.93	-26.67	-78.83	7.78
	-71.54	-13.25	-56.45	-34.19	-99.04	7.70
	-80.30	-15.85	-63.37	-38.87	-111.17	7.18
	-83.22	-17.23	-65.67	-40.69	-115.21	6.22
	-83.22	-17.23	-65.67	-40.69	-115.21	6.22
	-80.30	-17.41	-63.37	-39.65	-111.17	4.83
	-71.54	-16.38	-56.45	-35.76	-99.04	3.00
	-56.94	-14.14	-44.93	-29.01	-78.83	0.74
	-36.50	-10.69	-28.80	-19.41	-50.53	-1.96
	-10.22	-6.03	-8.06	-6.95	-14.15	-5.10
	-0.16	21.90	8.36	17.28	-8.68	30.32
	6.92	59.86	26.53	47.24	-12.69	82.87
	15.21	103.66	47.55	81.80	-17.14	143.51
	24.71	153.31	71.43	120.97	-22.02	212.24
4.10	38.71	151.75	77.87	119.81	-0.45	210.07
	27.67	102.61	53.40	81.01	1.94	142.05
	17.84	59.25	31.77	46.78	3.91	82.03
	9.22	21.68	12.97	17.12	5.47	30.01
	-10.12	1.80	-7.99	-3.00	-14.00	6.60
	-36.13	-4.41	-28.53	-16.14	-50.02	7.31
	-56.36	-9.42	-44.50	-26.44	-78.02	7.61
	-70.82	-13.21	-55.91	-33.91	-98.03	7.49
	-79.49	-15.81	-62.76	-38.55	-110.03	6.94
	-82.38	-17.19	-65.04	-40.36	-114.04	5.98

	-82.38	-17.19	-65.04	-40.36	-114.04	5.98
	-79.49	-17.37	-62.76	-39.33	-110.03	4.60
	-70.82	-16.34	-55.91	-35.48	-98.03	2.79
	-56.36	-14.11	-44.50	-28.79	-78.02	0.57
	-36.13	-10.67	-28.53	-19.27	-50.02	-2.07
	-10.12	-6.02	-7.99	-6.91	-14.00	-5.13
	-0.17	21.68	8.27	17.12	-8.61	30.01
	6.89	59.25	26.29	46.78	-12.51	82.03
	15.16	102.61	47.14	81.01	-16.83	142.05
	24.63	151.75	70.83	119.81	-21.57	210.07
4.15	38.63	150.23	77.28	118.67	-0.01	207.95
	27.62	101.58	53.00	80.24	2.24	140.61
	17.81	58.66	31.54	46.34	4.08	81.20
	9.21	21.46	12.88	16.95	5.53	29.71
	-10.02	1.80	-7.91	-2.96	-13.86	6.57
	-35.77	-4.39	-28.25	-16.00	-49.51	7.21
	-55.80	-9.39	-44.08	-26.22	-77.24	7.45
	-70.11	-13.18	-55.38	-33.64	-97.04	7.28
	-78.69	-15.77	-62.16	-38.24	-108.93	6.71
	-81.55	-17.15	-64.42	-40.04	-112.89	5.74
	-81.55	-17.15	-64.42	-40.04	-112.89	5.74
	-78.69	-17.33	-62.16	-39.03	-108.93	4.37
	-70.11	-16.31	-55.38	-35.20	-97.04	2.59
	-55.80	-14.08	-44.08	-28.57	-77.24	0.41
	-35.77	-10.65	-28.25	-19.13	-49.51	-2.18
	-10.02	-6.02	-7.91	-6.87	-13.86	-5.16
	-0.18	21.46	8.19	16.95	-8.55	29.71
	6.86	58.66	26.06	46.34	-12.34	81.20
	15.11	101.58	46.75	80.24	-16.53	140.61
	24.55	150.23	70.24	118.67	-21.13	207.95
4.20	38.66	148.84	76.81	117.66	0.52	206.02
	27.64	100.65	52.68	79.56	2.60	139.31
	17.82	58.12	31.35	45.94	4.29	80.45
	9.21	21.26	12.82	16.81	5.60	29.43
	-9.92	1.80	-7.84	-2.93	-13.73	6.53
	-35.44	-4.40	-28.01	-15.89	-49.05	7.08
	-55.28	-9.40	-43.70	-26.05	-76.52	7.25
	-69.46	-13.19	-54.91	-33.42	-96.14	7.03
	-77.97	-15.78	-61.63	-38.00	-107.92	6.43
	-80.80	-17.17	-63.87	-39.78	-111.84	5.45
	-80.80	-17.17	-63.87	-39.78	-111.84	5.45
	-77.97	-17.35	-61.63	-38.78	-107.92	4.09
	-69.46	-16.32	-54.91	-34.98	-96.14	2.34
	-55.28	-14.09	-43.70	-28.39	-76.52	0.21
	-35.44	-10.66	-28.01	-19.01	-49.05	-2.30

	-9.92	-6.02	-7.84	-6.84	-13.73	-5.20
	-0.17	21.26	8.12	16.81	-8.47	29.43
	6.87	58.12	25.88	45.94	-12.13	80.45
	15.13	100.65	46.43	79.56	-16.17	139.31
	24.58	148.84	69.77	117.66	-20.60	206.02
	38.59	147.39	76.25	116.58	0.94	204.01
	27.59	99.67	52.31	78.83	2.88	137.95
	17.80	57.55	31.14	45.52	4.46	79.66
	9.20	21.06	12.74	16.65	5.66	29.14
	-9.83	1.81	-7.77	-2.89	-13.60	6.51
	-35.09	-4.38	-27.76	-15.75	-48.57	6.98
	-54.75	-9.37	-43.30	-25.84	-75.77	7.09
	-68.78	-13.16	-54.40	-33.16	-95.20	6.84
	-77.21	-15.75	-61.07	-37.70	-106.86	6.21
	-80.01	-17.13	-63.29	-39.48	-110.75	5.22
	-80.01	-17.13	-63.29	-39.48	-110.75	5.22
	-77.21	-17.31	-61.07	-38.49	-106.86	3.87
	-68.78	-16.29	-54.40	-34.72	-95.20	2.14
	-54.75	-14.07	-43.30	-28.19	-75.77	0.05
	-35.09	-10.64	-27.76	-18.88	-48.57	-2.40
	-9.83	-6.01	-7.77	-6.80	-13.60	-5.22
	-0.18	21.06	8.04	16.65	-8.41	29.14
	6.85	57.55	25.66	45.52	-11.97	79.66
	15.08	99.67	46.05	78.83	-15.89	137.95
	24.51	147.39	69.21	116.58	-20.18	204.01
4.25	38.52	145.98	75.70	115.52	1.35	202.04
	27.55	98.71	51.93	78.11	3.16	136.62
	17.77	57.00	30.92	45.11	4.62	78.89
	9.19	20.85	12.66	16.50	5.72	28.86
	-9.73	1.81	-7.70	-2.86	-13.47	6.48
	-34.76	-4.37	-27.51	-15.62	-48.10	6.89
	-54.22	-9.35	-42.91	-25.64	-75.04	6.94
	-68.12	-13.13	-53.91	-32.90	-94.28	6.64
	-76.46	-15.71	-60.51	-37.42	-105.83	6.00
	-79.25	-17.09	-62.71	-39.18	-109.68	5.00
	-79.25	-17.09	-62.71	-39.18	-109.68	5.00
	-76.46	-17.27	-60.51	-38.20	-105.83	3.65
	-68.12	-16.26	-53.91	-34.47	-94.28	1.95
	-54.22	-14.04	-42.91	-27.98	-75.04	-0.10
	-34.76	-10.62	-27.51	-18.75	-48.10	-2.50
	-9.73	-6.01	-7.70	-6.77	-13.47	-5.25
	-0.19	20.85	7.97	16.50	-8.35	28.86
	6.82	57.00	25.45	45.11	-11.81	78.89
	15.03	98.71	45.68	78.11	-15.61	136.62
	24.45	145.98	68.66	115.52	-19.77	202.04
4.30						

4.35	38.46	144.60	75.16	114.49	1.75	200.11
	27.50	97.77	51.57	77.42	3.43	135.31
	17.74	56.46	30.71	44.71	4.77	78.14
	9.18	20.66	12.58	16.36	5.78	28.59
	-9.64	1.82	-7.63	-2.82	-13.34	6.45
	-34.43	-4.35	-27.26	-15.49	-47.65	6.79
	-53.71	-9.32	-42.52	-25.44	-74.33	6.79
	-67.48	-13.10	-53.43	-32.65	-93.39	6.46
	-75.74	-15.67	-59.97	-37.14	-104.82	5.79
	-78.49	-17.05	-62.15	-38.89	-108.63	4.78
	-78.49	-17.05	-62.15	-38.89	-108.63	4.78
	-75.74	-17.24	-59.97	-37.92	-104.82	3.44
	-67.48	-16.23	-53.43	-34.22	-93.39	1.77
	-53.71	-14.02	-42.52	-27.78	-74.33	-0.25
	-34.43	-10.61	-27.26	-18.62	-47.65	-2.59
	-9.64	-6.00	-7.63	-6.73	-13.34	-5.28
	-0.20	20.66	7.89	16.36	-8.30	28.59
	6.79	56.46	25.24	44.71	-11.65	78.14
	14.99	97.77	45.32	77.42	-15.34	135.31
	24.38	144.60	68.12	114.49	-19.37	200.11
4.40	38.39	143.24	74.64	113.48	2.14	198.23
	27.46	96.86	51.22	76.73	3.69	134.04
	17.72	55.93	30.51	44.31	4.92	77.41
	9.17	20.46	12.51	16.21	5.84	28.32
	-9.55	1.82	-7.57	-2.79	-13.22	6.43
	-34.11	-4.34	-27.02	-15.37	-47.20	6.70
	-53.21	-9.30	-42.15	-25.24	-73.63	6.65
	-66.85	-13.07	-52.96	-32.41	-92.51	6.27
	-75.03	-15.64	-59.44	-36.86	-103.84	5.58
	-77.76	-17.02	-61.60	-38.61	-107.61	4.57
	-77.76	-17.02	-61.60	-38.61	-107.61	4.57
	-75.03	-17.20	-59.44	-37.65	-103.84	3.24
	-66.85	-16.20	-52.96	-33.97	-92.51	1.58
	-53.21	-13.99	-42.15	-27.59	-73.63	-0.39
	-34.11	-10.59	-27.02	-18.50	-47.20	-2.69
	-9.55	-6.00	-7.57	-6.70	-13.22	-5.30
	-0.21	20.46	7.81	16.21	-8.24	28.32
	6.77	55.93	25.03	44.31	-11.50	77.41
	14.94	96.86	44.96	76.73	-15.08	134.04
	24.31	143.24	67.60	113.48	-18.98	198.23
4.45	38.33	141.92	74.13	112.49	2.52	196.40
	27.41	95.97	50.88	76.07	3.95	132.80
	17.69	55.42	30.31	43.93	5.07	76.69
	9.16	20.27	12.43	16.07	5.89	28.06
	-9.46	1.82	-7.50	-2.75	-13.09	6.40

	-33.79	-4.32	-26.78	-15.25	-46.76	6.61
	-52.71	-9.28	-41.78	-25.05	-72.95	6.50
	-66.23	-13.04	-52.50	-32.17	-91.65	6.10
	-74.34	-15.61	-58.93	-36.60	-102.87	5.38
	-77.04	-16.99	-61.07	-38.33	-106.61	4.36
	-77.04	-16.99	-61.07	-38.33	-106.61	4.36
	-74.34	-17.17	-58.93	-37.38	-102.87	3.04
	-66.23	-16.17	-52.50	-33.73	-91.65	1.40
	-52.71	-13.97	-41.78	-27.40	-72.95	-0.53
	-33.79	-10.58	-26.78	-18.38	-46.76	-2.78
	-9.46	-6.00	-7.50	-6.66	-13.09	-5.33
	-0.22	20.27	7.74	16.07	-8.19	28.06
	6.74	55.42	24.83	43.93	-11.35	76.69
	14.90	95.97	44.62	76.07	-14.82	132.80
	24.25	141.92	67.09	112.49	-18.59	196.40
4.50	38.27	140.63	73.63	111.53	2.90	194.60
	27.37	95.09	50.54	75.42	4.21	131.59
	17.67	54.91	30.11	43.55	5.22	75.99
	9.15	20.09	12.36	15.93	5.94	27.80
	-9.38	1.83	-7.44	-2.72	-12.97	6.38
	-33.48	-4.31	-26.55	-15.13	-46.33	6.52
	-52.23	-9.25	-41.43	-24.87	-72.28	6.36
	-65.63	-13.01	-52.05	-31.94	-90.81	5.92
	-73.66	-15.57	-58.42	-36.33	-101.93	5.19
	-76.34	-16.95	-60.54	-38.06	-105.64	4.16
	-76.34	-16.95	-60.54	-38.06	-105.64	4.16
	-73.66	-17.14	-58.42	-37.12	-101.93	2.84
	-65.63	-16.14	-52.05	-33.50	-90.81	1.23
	-52.23	-13.94	-41.43	-27.21	-72.28	-0.67
	-33.48	-10.56	-26.55	-18.26	-46.33	-2.87
	-9.38	-5.99	-7.44	-6.63	-12.97	-5.35
	-0.23	20.09	7.67	15.93	-8.13	27.80
	6.72	54.91	24.64	43.55	-11.20	75.99
	14.86	95.09	44.28	75.42	-14.56	131.59
	24.19	140.63	66.59	111.53	-18.22	194.60

En la Tabla 26 se muestran las combinaciones de esfuerzos para el cordón superior en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 26. Combinación de esfuerzos del cordón superior - 20 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Mín (KN)	Máx(KN)	Mín (KN)	Máx(KN)	Mín (KN)	Máx(KN)
0.50	-0.39	0.00	-0.20	0.00	-0.59	0.00

	54.52	411.27	181.38	316.47	-72.33	570.66
	103.66	779.24	343.84	599.63	-136.52	1081.26
	147.01	1103.92	487.18	849.48	-193.16	1531.78
	184.59	1385.32	611.42	1066.02	-242.25	1922.24
	216.38	1623.42	716.54	1249.24	-283.78	2252.62
	242.39	1818.23	802.55	1399.15	-317.77	2522.94
	262.62	1969.75	869.44	1515.74	-344.20	2733.18
	277.07	2077.97	917.23	1599.03	-363.08	2883.36
	285.74	2142.91	945.90	1648.99	-374.41	2973.46
	286.53	2142.91	946.29	1648.99	-373.23	2973.46
	277.86	2077.97	917.62	1599.03	-361.90	2883.36
	263.40	1969.75	869.83	1515.74	-343.02	2733.18
	243.17	1818.23	802.94	1399.15	-316.59	2522.94
	217.16	1623.42	716.93	1249.24	-282.61	2252.62
	185.37	1385.32	611.81	1066.02	-241.07	1922.24
	147.79	1103.92	487.58	849.48	-191.99	1531.78
	104.44	779.24	344.23	599.63	-135.35	1081.26
	55.31	411.27	181.77	316.47	-71.16	570.66
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
0.55	45.40	369.75	160.74	283.57	-69.94	513.21
	86.37	700.57	304.73	537.29	-131.99	972.39
	122.52	992.48	431.79	761.17	-186.74	1377.56
	153.85	1245.46	541.90	955.19	-234.20	1728.70
	180.36	1459.52	635.07	1119.36	-274.35	2025.82
	202.05	1634.67	711.30	1253.68	-307.20	2268.92
	218.92	1770.89	770.60	1358.16	-332.75	2457.99
	230.97	1868.19	812.95	1432.78	-351.00	2593.05
	238.20	1926.57	838.36	1477.56	-361.95	2674.08
	238.99	1926.57	838.75	1477.56	-360.78	2674.08
	231.75	1868.19	813.34	1432.78	-349.83	2593.05
	219.70	1770.89	770.99	1358.16	-331.58	2457.99
	202.83	1634.67	711.70	1253.68	-306.03	2268.92
	181.14	1459.52	635.46	1119.36	-273.17	2025.82
	154.63	1245.46	542.29	955.19	-233.02	1728.70
	123.30	992.48	432.18	761.17	-185.57	1377.56
	87.15	700.57	305.12	537.29	-130.82	972.39
	46.18	369.75	161.13	283.57	-68.77	513.21
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
0.60	35.94	333.29	141.68	254.30	-69.80	462.82
	68.44	631.50	268.63	481.82	-131.74	876.92
	97.13	894.62	380.64	682.58	-186.38	1242.31
	121.98	1122.66	477.71	856.58	-233.74	1558.97
	143.02	1315.61	559.85	1003.80	-273.82	1826.92

	160.23	1473.49	627.06	1124.25	-306.60	2046.15
	173.61	1596.28	679.33	1217.94	-332.11	2216.66
	183.17	1683.99	716.66	1284.86	-350.32	2338.46
	188.91	1736.61	739.07	1325.01	-361.25	2411.53
	189.69	1736.61	739.46	1325.01	-360.08	2411.53
	183.95	1683.99	717.05	1284.86	-349.15	2338.46
	174.39	1596.28	679.72	1217.94	-330.93	2216.66
	161.01	1473.49	627.45	1124.25	-305.43	2046.15
	143.80	1315.61	560.24	1003.80	-272.64	1826.92
	122.77	1122.66	478.10	856.58	-232.57	1558.97
	97.91	894.62	381.03	682.58	-185.21	1242.31
	69.23	631.50	269.02	481.82	-130.56	876.92
	36.72	333.29	142.07	254.30	-68.63	462.82
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
0.65	31.96	306.47	129.58	233.55	-65.67	425.62
	60.90	580.67	245.70	442.51	-123.90	806.43
	86.44	822.62	348.16	626.89	-175.27	1142.45
	108.58	1032.30	436.95	786.69	-219.80	1433.66
	127.30	1209.73	512.09	921.90	-257.48	1680.07
	142.63	1354.90	573.56	1032.53	-288.31	1881.67
	154.55	1467.81	621.38	1118.57	-312.28	2038.48
	163.06	1548.46	655.53	1180.03	-329.41	2150.49
	168.17	1596.85	676.02	1216.91	-339.69	2217.69
	168.95	1596.85	676.41	1216.91	-338.51	2217.69
	163.84	1548.46	655.92	1180.03	-328.24	2150.49
	155.33	1467.81	621.77	1118.57	-311.11	2038.48
	143.41	1354.90	573.95	1032.53	-287.14	1881.67
	128.09	1209.73	512.48	921.90	-256.31	1680.07
	109.36	1032.30	437.34	786.69	-218.63	1433.66
	87.22	822.62	348.55	626.89	-174.10	1142.45
	61.68	580.67	246.09	442.51	-122.72	806.43
	32.74	306.47	129.97	233.55	-64.49	425.62
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
0.70	27.44	282.37	118.11	214.66	-63.22	392.24
	52.35	535.02	223.96	406.73	-119.26	743.19
	74.32	757.94	317.36	576.20	-168.71	1052.86
	93.37	951.15	398.31	723.07	-211.57	1321.23
	109.48	1114.62	466.80	847.35	-247.83	1548.32
	122.67	1248.38	522.84	949.04	-277.50	1734.12
	132.92	1352.41	566.42	1028.12	-300.58	1878.63
	140.25	1426.72	597.56	1084.61	-317.06	1981.85
	144.64	1471.30	616.24	1118.51	-326.95	2043.78
	145.43	1471.30	616.63	1118.51	-325.77	2043.78

	141.03	1426.72	597.95	1084.61	-315.89	1981.85
	133.71	1352.41	566.81	1028.12	-299.40	1878.63
	123.45	1248.38	523.23	949.04	-276.33	1734.12
	110.27	1114.62	467.19	847.35	-246.66	1548.32
	94.15	951.15	398.70	723.07	-210.39	1321.23
	75.11	757.94	317.75	576.20	-167.54	1052.86
	53.13	535.02	224.35	406.73	-118.09	743.19
	28.23	282.37	118.50	214.66	-62.05	392.24
	0.00	0.39	0.00	0.20	0.00	0.59
0.75	-0.39	0.00	-0.20	0.00	-0.59	0.00
	24.29	262.25	108.92	199.05	-60.35	364.34
	46.37	496.89	206.55	377.15	-113.81	690.32
	65.85	703.93	292.70	534.30	-160.99	977.96
	82.74	883.36	367.36	670.49	-201.88	1227.24
	97.03	1035.18	430.53	785.73	-236.48	1438.17
	108.72	1159.41	482.22	880.02	-264.79	1610.75
	117.81	1256.02	522.42	953.35	-286.80	1744.98
	124.30	1325.04	551.14	1005.74	-302.53	1840.86
	128.20	1366.44	568.37	1037.17	-311.96	1898.38
	128.98	1366.44	568.76	1037.17	-310.79	1898.38
	125.09	1325.04	551.53	1005.74	-301.36	1840.86
	118.59	1256.02	522.81	953.35	-285.63	1744.98
	109.50	1159.41	482.61	880.02	-263.61	1610.75
	97.81	1035.18	430.92	785.73	-235.31	1438.17
	83.52	883.36	367.75	670.49	-200.71	1227.24
	66.64	703.93	293.09	534.30	-159.82	977.96
	47.15	496.89	206.95	377.15	-112.64	690.32
	25.07	262.25	109.31	199.05	-59.17	364.34
	0.00	0.39	0.00	0.20	0.00	0.59
0.80	-0.39	0.00	-0.20	0.00	-0.59	0.00
	23.08	246.19	102.43	186.94	-56.28	342.01
	44.08	466.46	194.26	354.21	-106.11	648.03
	62.60	660.82	275.29	501.80	-150.08	918.04
	78.66	829.27	345.51	629.70	-188.18	1152.05
	92.25	971.80	404.92	737.93	-220.42	1350.05
	103.37	1088.41	453.54	826.49	-246.80	1512.06
	112.01	1179.11	491.35	895.36	-267.32	1638.07
	118.19	1243.90	518.36	944.56	-281.98	1728.07
	121.90	1282.77	534.56	974.07	-290.77	1782.07
	122.68	1282.77	534.95	974.07	-289.60	1782.07
	118.97	1243.90	518.75	944.56	-280.81	1728.07
	112.80	1179.11	491.74	895.36	-266.15	1638.07
	104.15	1088.41	453.93	826.49	-245.63	1512.06
	93.03	971.80	405.32	737.93	-219.25	1350.05
79.44	829.27	345.90	629.70	-187.01	1152.05	

	63.39	660.82	275.68	501.80	-148.90	918.04
	44.86	466.46	194.65	354.21	-104.94	648.03
	23.86	246.19	102.83	186.94	-55.11	342.01
	0.00	0.39	0.00	0.20	0.00	0.59
0.85	-0.39	0.00	-0.20	0.00	-0.59	0.00
	20.56	230.57	95.26	174.81	-54.14	320.36
	39.31	436.87	180.67	331.22	-102.06	607.00
	55.85	618.90	256.03	469.23	-144.34	859.91
	70.18	776.65	321.34	588.83	-180.98	1079.11
	82.31	910.14	376.60	690.04	-211.98	1264.58
	92.24	1019.36	421.82	772.84	-237.35	1416.33
	99.95	1104.31	456.99	837.25	-257.08	1534.36
	105.47	1164.98	482.11	883.25	-271.17	1618.66
	108.78	1201.39	497.18	910.85	-279.63	1669.24
	109.56	1201.39	497.57	910.85	-278.46	1669.24
	106.25	1164.98	482.50	883.25	-270.00	1618.66
	100.74	1104.31	457.38	837.25	-255.91	1534.36
	93.02	1019.36	422.21	772.84	-236.18	1416.33
	83.09	910.14	377.00	690.04	-210.81	1264.58
	70.96	776.65	321.73	588.83	-179.80	1079.11
	56.63	618.90	256.42	469.23	-143.16	859.91
	40.09	436.87	181.06	331.22	-100.88	607.00
	21.34	230.57	95.65	174.81	-52.97	320.36
	0.00	0.39	0.00	0.20	0.00	0.59
	0.90	-0.39	0.00	-0.20	0.00	-0.59
19.59		217.95	90.15	165.29	-50.98	302.82
37.46		412.96	170.98	313.18	-96.06	573.76
53.23		585.02	242.30	443.67	-135.84	812.83
66.90		734.15	304.12	556.76	-170.32	1020.02
78.46		860.33	356.42	652.45	-199.49	1195.33
87.93		963.57	399.21	730.74	-223.36	1338.77
95.29		1043.86	432.50	791.64	-241.92	1450.34
100.54		1101.22	456.27	835.14	-255.18	1530.03
103.70		1135.63	470.54	861.23	-263.14	1577.84
104.48		1135.63	470.93	861.23	-261.97	1577.84
101.33		1101.22	456.66	835.14	-254.01	1530.03
96.07		1043.86	432.89	791.64	-240.75	1450.34
88.71		963.57	399.60	730.74	-222.18	1338.77
79.25		860.33	356.81	652.45	-198.32	1195.33
67.68		734.15	304.51	556.76	-169.14	1020.02
54.01		585.02	242.69	443.67	-134.67	812.83
38.24		412.96	171.37	313.18	-94.89	573.76
20.37		217.95	90.54	165.29	-49.80	302.82
0.00		0.39	0.00	0.20	0.00	0.59
0.95		-0.39	0.00	-0.20	0.00	-0.59

	18.83	206.77	85.68	156.88	-48.03	287.27
	36.02	391.78	162.52	297.25	-90.48	544.31
	51.19	555.02	230.32	421.10	-127.94	771.10
	64.34	696.49	289.08	528.44	-160.40	967.66
	75.47	816.20	338.80	619.26	-187.87	1133.98
	84.57	914.14	379.48	693.57	-210.34	1270.06
	91.65	990.32	411.12	751.37	-227.82	1375.89
	96.71	1044.73	433.72	792.66	-240.31	1451.49
	99.74	1077.38	447.28	817.43	-247.80	1496.85
	100.52	1077.38	447.67	817.43	-246.63	1496.85
	97.49	1044.73	434.11	792.66	-239.13	1451.49
	92.43	990.32	411.51	751.37	-226.65	1375.89
	85.35	914.14	379.87	693.57	-209.17	1270.06
	76.25	816.20	339.19	619.26	-186.70	1133.98
	65.12	696.49	289.47	528.44	-159.23	967.66
	51.97	555.02	230.71	421.10	-126.77	771.10
	36.80	391.78	162.91	297.25	-89.31	544.31
	19.61	206.77	86.07	156.88	-46.86	287.27
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
1.00	17.01	195.58	80.54	148.18	-46.51	271.76
	32.58	370.57	152.77	280.77	-87.60	514.91
	46.32	524.98	216.51	397.76	-123.86	729.46
	58.23	658.79	271.75	499.14	-155.28	915.40
	68.31	772.02	318.49	584.93	-181.87	1072.74
	76.55	864.67	356.73	655.13	-203.62	1201.46
	82.96	936.72	386.47	709.72	-220.54	1301.59
	87.54	988.19	407.72	748.72	-232.63	1373.10
	90.29	1019.07	420.47	772.11	-239.88	1416.01
	91.07	1019.07	420.86	772.11	-238.71	1416.01
	88.33	988.19	408.11	748.72	-231.46	1373.10
	83.75	936.72	386.86	709.72	-219.37	1301.59
	77.33	864.67	357.12	655.13	-202.45	1201.46
	69.09	772.02	318.88	584.93	-180.70	1072.74
	59.01	658.79	272.14	499.14	-154.11	915.40
	47.11	524.98	216.90	397.76	-122.69	729.46
	33.37	370.57	153.16	280.77	-86.43	514.91
	17.79	195.58	80.93	148.18	-45.34	271.76
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
1.05	16.45	186.54	76.96	141.40	-44.05	259.18
	31.53	353.44	146.00	267.91	-82.95	491.09
	44.83	500.70	206.92	379.54	-117.26	695.70
	56.35	628.33	259.71	476.29	-147.00	873.04
	66.11	736.33	304.38	558.15	-172.17	1023.10

	74.09	824.69	340.93	625.13	-192.76	1145.87
	80.29	893.41	369.36	677.22	-208.77	1241.36
	84.72	942.50	389.66	714.43	-220.21	1309.56
	87.38	971.95	401.84	736.76	-227.08	1350.49
	88.17	971.95	402.24	736.76	-225.90	1350.49
	85.51	942.50	390.05	714.43	-219.04	1309.56
	81.07	893.41	369.75	677.22	-207.60	1241.36
	74.87	824.69	341.32	625.13	-191.59	1145.87
	66.89	736.33	304.77	558.15	-171.00	1023.10
	57.13	628.33	260.10	476.29	-145.83	873.04
	45.61	500.70	207.31	379.54	-116.09	695.70
	32.31	353.44	146.39	267.91	-81.77	491.09
	17.24	186.54	77.35	141.40	-42.88	259.18
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
1.10	15.76	178.13	73.53	135.04	-42.00	247.50
	30.22	337.51	139.50	255.87	-79.06	468.95
	42.97	478.14	197.70	362.49	-111.76	664.35
	54.02	600.02	248.14	454.89	-140.10	833.69
	63.38	703.15	290.83	533.07	-164.08	976.99
	71.03	787.53	325.75	597.04	-183.70	1094.22
	76.98	853.16	352.91	646.79	-198.96	1185.41
	81.23	900.03	372.31	682.33	-209.86	1250.54
	83.78	928.16	383.96	703.65	-216.39	1289.62
	84.56	928.16	384.35	703.65	-215.22	1289.62
	82.01	900.03	372.71	682.33	-208.68	1250.54
	77.76	853.16	353.30	646.79	-197.78	1185.41
	71.81	787.53	326.14	597.04	-182.52	1094.22
	64.16	703.15	291.22	533.07	-162.90	976.99
	54.80	600.02	248.54	454.89	-138.93	833.69
	43.75	478.14	198.09	362.49	-110.59	664.35
	31.00	337.51	139.89	255.87	-77.89	468.95
	16.55	178.13	73.92	135.04	-40.83	247.50
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
1.15	14.42	169.74	69.68	128.53	-40.85	235.87
	27.67	321.62	132.20	243.53	-76.87	446.92
	39.36	455.63	187.37	345.00	-108.65	633.13
	49.49	571.77	235.18	432.94	-136.20	794.52
	58.06	670.04	275.63	507.35	-159.51	931.08
	65.08	750.45	308.73	568.24	-178.58	1042.81
	70.53	812.98	334.48	615.59	-193.41	1129.71
	74.43	857.65	352.87	649.41	-204.01	1191.78
	76.77	884.45	363.90	669.71	-210.36	1229.02
	77.55	884.45	364.29	669.71	-209.19	1229.02

	75.21	857.65	353.26	649.41	-202.83	1191.78
	71.32	812.98	334.87	615.59	-192.24	1129.71
	65.86	750.45	309.13	568.24	-177.41	1042.81
	58.85	670.04	276.03	507.35	-158.34	931.08
	50.27	571.77	235.57	432.94	-135.03	794.52
	40.14	455.63	187.76	345.00	-107.48	633.13
	28.45	321.62	132.59	243.53	-75.70	446.92
	15.20	169.74	70.07	128.53	-39.67	235.87
	0.00	0.39	0.00	0.20	0.00	0.59
1.20	-0.39	0.00	-0.20	0.00	-0.59	0.00
	14.04	162.92	67.01	123.42	-38.92	226.38
	26.96	308.68	127.15	233.85	-73.23	428.92
	38.36	437.30	180.21	331.28	-103.49	607.64
	48.23	548.77	226.20	415.73	-129.73	762.53
	56.59	643.09	265.11	487.18	-151.92	893.59
	63.43	720.26	296.94	545.64	-170.08	1000.82
	68.75	780.28	321.71	591.11	-184.21	1084.22
	72.55	823.15	339.39	623.59	-194.30	1143.79
	74.83	848.87	350.00	643.08	-200.35	1179.54
	75.61	848.87	350.40	643.08	-199.18	1179.54
	73.33	823.15	339.78	623.59	-193.12	1143.79
	69.53	780.28	322.10	591.11	-183.03	1084.22
	64.21	720.26	297.33	545.64	-168.91	1000.82
	57.37	643.09	265.50	487.18	-150.75	893.59
	49.02	548.77	226.59	415.73	-128.55	762.53
	39.14	437.30	180.60	331.28	-102.32	607.64
	27.74	308.68	127.54	233.85	-72.05	428.92
	14.83	162.92	67.41	123.42	-37.75	226.38
	0.00	0.39	0.00	0.20	0.00	0.59
1.25	-0.39	0.00	-0.20	0.00	-0.59	0.00
	13.70	156.64	64.56	118.72	-37.15	217.64
	26.32	296.78	122.50	224.94	-69.87	412.37
	37.44	420.44	173.63	318.67	-98.74	584.19
	47.09	527.61	217.94	399.90	-123.76	733.10
	55.25	618.30	255.43	468.63	-144.93	859.11
	61.93	692.49	286.11	524.86	-162.26	962.20
	67.12	750.20	309.96	568.60	-175.73	1042.38
	70.83	791.42	327.01	599.84	-185.35	1099.66
	73.05	816.15	337.23	618.59	-191.12	1134.02
	73.84	816.15	337.62	618.59	-189.95	1134.02
	71.61	791.42	327.40	599.84	-184.18	1099.66
	67.90	750.20	310.35	568.60	-174.55	1042.38
	62.71	692.49	286.50	524.86	-161.08	962.20
	56.03	618.30	255.82	468.63	-143.76	859.11
	47.87	527.61	218.33	399.90	-122.59	733.10

	38.23	420.44	174.02	318.67	-97.57	584.19
	27.10	296.78	122.90	224.94	-68.70	412.37
	14.49	156.64	64.95	118.72	-35.98	217.64
	0.00	0.39	0.00	0.20	0.00	0.59
1.30	-0.39	0.00	-0.20	0.00	-0.59	0.00
	13.39	150.84	62.30	114.38	-35.52	209.58
	25.72	285.80	118.22	216.72	-66.77	397.10
	36.61	404.89	167.56	307.03	-94.35	562.56
	46.04	508.10	210.32	385.29	-118.25	705.95
	54.02	595.43	246.51	451.51	-138.47	827.29
	60.54	666.88	276.11	505.69	-155.02	926.56
	65.62	722.45	299.14	547.83	-167.89	1003.78
	69.25	762.14	315.58	577.93	-177.08	1058.93
	71.43	785.96	325.45	595.99	-182.60	1092.02
	72.21	785.96	325.84	595.99	-181.43	1092.02
	70.03	762.14	315.97	577.93	-175.91	1058.93
	66.40	722.45	299.53	547.83	-166.72	1003.78
	61.33	666.88	276.50	505.69	-153.85	926.56
	54.80	595.43	246.90	451.51	-137.30	827.29
	46.82	508.10	210.71	385.29	-117.08	705.95
	37.39	404.89	167.95	307.03	-93.18	562.56
	26.51	285.80	118.61	216.72	-65.60	397.10
	14.17	150.84	62.69	114.38	-34.35	209.58
	0.00	0.39	0.00	0.20	0.00	0.59
1.35	-0.39	0.00	-0.20	0.00	-0.59	0.00
	13.10	145.48	60.21	110.37	-34.00	202.12
	25.18	275.64	114.26	209.12	-63.90	382.96
	35.83	390.49	161.95	296.25	-90.28	542.53
	45.07	490.03	203.28	371.77	-113.14	680.82
	52.88	574.25	238.25	435.67	-132.49	797.84
	59.27	643.16	266.86	487.95	-148.31	893.58
	64.25	696.76	289.12	528.61	-160.62	968.04
	67.80	735.04	305.01	557.66	-169.42	1021.23
	69.93	758.01	314.55	575.08	-174.69	1053.15
	70.71	758.01	314.94	575.08	-173.52	1053.15
	68.58	735.04	305.41	557.66	-168.25	1021.23
	65.03	696.76	289.51	528.61	-159.45	968.04
	60.06	643.16	267.25	487.95	-147.14	893.58
	53.66	574.25	238.64	435.67	-131.31	797.84
	45.85	490.03	203.67	371.77	-111.97	680.82
	36.62	390.49	162.34	296.25	-89.11	542.53
	25.96	275.64	114.65	209.12	-62.73	382.96
	13.89	145.48	60.60	110.37	-32.83	202.12
	0.00	0.39	0.00	0.20	0.00	0.59
1.40	-0.39	0.00	-0.20	0.00	-0.59	0.00

	12.84	140.50	58.27	106.64	-32.59	195.19
	24.68	266.21	110.58	202.06	-61.23	369.84
	35.12	377.13	156.74	286.26	-86.49	523.94
	44.18	473.26	196.74	359.22	-108.39	657.49
	51.84	554.60	230.59	420.97	-126.92	770.50
	58.10	621.15	258.28	471.48	-142.08	862.96
	62.98	672.92	279.82	510.77	-153.87	934.87
	66.46	709.89	295.21	538.84	-162.29	986.24
	68.55	732.07	304.44	555.67	-167.35	1017.06
	69.33	732.07	304.83	555.67	-166.17	1017.06
	67.24	709.89	295.60	538.84	-161.12	986.24
	63.76	672.92	280.22	510.77	-152.70	934.87
	58.88	621.15	258.68	471.48	-140.91	862.96
	52.62	554.60	230.98	420.97	-125.75	770.50
	44.96	473.26	197.13	359.22	-107.22	657.49
	35.90	377.13	157.13	286.26	-85.32	523.94
	25.46	266.21	110.97	202.06	-60.05	369.84
	13.62	140.50	58.66	106.64	-31.42	195.19
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
1.45	12.59	135.87	56.47	103.18	-31.28	188.75
	24.21	257.43	107.16	195.50	-58.74	357.63
	34.46	364.69	151.89	276.95	-82.96	506.64
	43.35	457.65	190.66	347.55	-103.96	635.78
	50.87	536.31	223.46	407.28	-121.73	745.05
	57.02	600.67	250.30	456.16	-136.27	834.46
	61.80	650.72	271.18	494.17	-147.57	904.00
	65.22	686.48	286.09	521.32	-155.65	953.67
	67.27	707.93	295.04	537.61	-160.50	983.47
	68.05	707.93	295.43	537.61	-159.32	983.47
	66.00	686.48	286.48	521.32	-154.48	953.67
	62.58	650.72	271.57	494.17	-146.40	904.00
	57.80	600.67	250.70	456.16	-135.09	834.46
	51.65	536.31	223.86	407.28	-120.56	745.05
	44.13	457.65	191.05	347.55	-102.79	635.78
	35.25	364.69	152.28	276.95	-81.79	506.64
	25.00	257.43	107.55	195.50	-57.56	357.63
	13.38	135.87	56.86	103.18	-30.10	188.75
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
1.50	12.37	131.54	54.78	99.94	-30.05	182.73
	23.78	249.24	103.97	189.37	-56.41	346.23
	33.85	353.09	147.38	268.27	-79.67	490.49
	42.58	443.09	184.99	336.65	-99.82	615.52
	49.97	519.24	216.82	394.52	-116.88	721.31

	56.01	581.55	242.86	441.86	-130.84	807.87
	60.71	630.02	263.12	478.68	-141.69	875.19
	64.07	664.63	277.58	504.98	-149.44	923.28
	66.08	685.40	286.27	520.76	-154.10	952.13
	66.87	685.40	286.66	520.76	-152.92	952.13
	64.85	664.63	277.98	504.98	-148.27	923.28
	61.50	630.02	263.51	478.68	-140.52	875.19
	56.79	581.55	243.25	441.86	-129.66	807.87
	50.75	519.24	217.21	394.52	-115.71	721.31
	43.37	443.09	185.38	336.65	-98.65	615.52
	34.64	353.09	147.77	268.27	-78.49	490.49
	24.56	249.24	104.36	189.37	-55.23	346.23
	13.15	131.54	55.17	99.94	-28.87	182.73
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
1.55	12.16	127.50	53.21	96.92	-28.90	177.11
	23.38	241.58	100.99	183.64	-54.23	335.57
	33.29	342.23	143.15	260.15	-76.58	475.40
	41.87	429.47	179.69	326.47	-95.95	596.58
	49.13	503.28	210.61	382.58	-112.34	699.11
	55.08	563.68	235.91	428.49	-125.75	783.01
	59.70	610.65	255.58	464.20	-136.18	848.26
	63.00	644.20	269.64	489.70	-143.63	894.86
	64.98	664.33	278.07	505.01	-148.10	922.83
	65.77	664.33	278.46	505.01	-146.93	922.83
	63.78	644.20	270.03	489.70	-142.46	894.86
	60.48	610.65	255.97	464.20	-135.01	848.26
	55.86	563.68	236.30	428.49	-124.58	783.01
	49.92	503.28	211.00	382.58	-111.17	699.11
	42.65	429.47	180.08	326.47	-94.78	596.58
	34.07	342.23	143.54	260.15	-75.41	475.40
	24.16	241.58	101.38	183.64	-53.06	335.57
	12.94	127.50	53.60	96.92	-27.72	177.11
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
1.60	11.96	123.71	51.73	94.09	-27.82	171.84
	23.01	234.40	98.20	178.27	-52.18	325.59
	32.76	332.06	139.20	252.55	-73.68	461.25
	41.21	416.70	174.73	316.92	-92.31	578.82
	48.36	488.33	204.79	371.39	-108.08	678.30
	54.21	546.92	229.39	415.96	-120.98	759.70
	58.76	592.50	248.52	450.63	-131.01	823.01
	62.01	625.06	262.19	475.39	-138.18	868.23
	63.96	644.59	270.39	490.24	-142.47	895.36
	64.74	644.59	270.78	490.24	-141.30	895.36

	62.79	625.06	262.58	475.39	-137.00	868.23
	59.54	592.50	248.91	450.63	-129.84	823.01
	54.99	546.92	229.78	415.96	-119.80	759.70
	49.14	488.33	205.18	371.39	-106.90	678.30
	41.99	416.70	175.12	316.92	-91.14	578.82
	33.54	332.06	139.59	252.55	-72.51	461.25
	23.79	234.40	98.59	178.27	-51.01	325.59
	12.74	123.71	52.13	94.09	-26.64	171.84
	0.00	0.39	0.00	0.20	0.00	0.59
1.65	-0.39	0.00	-0.20	0.00	-0.59	0.00
	11.77	120.15	50.35	91.43	-26.80	166.89
	22.66	227.65	95.58	173.23	-50.26	316.21
	32.26	322.51	135.48	245.41	-70.95	447.96
	40.59	404.72	170.07	307.96	-88.89	562.15
	47.63	474.28	199.33	360.89	-104.07	658.76
	53.39	531.19	223.27	404.20	-116.49	737.82
	57.88	575.46	241.90	437.88	-126.15	799.30
	61.08	607.08	255.20	461.94	-133.04	843.22
	63.00	626.05	263.18	476.38	-137.18	869.57
	63.78	626.05	263.57	476.38	-136.01	869.57
	61.86	607.08	255.59	461.94	-131.87	843.22
	58.66	575.46	242.29	437.88	-124.97	799.30
	54.18	531.19	223.67	404.20	-115.31	737.82
	48.41	474.28	199.72	360.89	-102.90	658.76
	41.37	404.72	170.46	307.96	-87.72	562.15
	33.05	322.51	135.87	245.41	-69.78	447.96
	23.44	227.65	95.97	173.23	-49.09	316.21
	12.56	120.15	50.74	91.43	-25.63	166.89
	0.00	0.39	0.00	0.20	0.00	0.59
1.70	-0.39	0.00	-0.20	0.00	-0.59	0.00
	11.60	116.80	49.05	88.92	-25.85	162.23
	22.33	221.31	93.11	168.48	-48.45	307.38
	31.80	313.52	131.99	238.69	-68.39	435.46
	40.01	393.44	165.69	299.53	-85.67	546.46
	46.95	461.06	194.20	351.01	-100.29	640.38
	52.63	516.39	217.52	393.13	-112.26	717.22
	57.05	559.42	235.67	425.89	-121.56	776.99
	60.21	590.16	248.63	449.29	-128.21	819.68
	62.10	608.60	256.40	463.33	-132.20	845.30
	62.88	608.60	256.79	463.33	-131.03	845.30
	60.99	590.16	249.02	449.29	-127.04	819.68
	57.83	559.42	236.06	425.89	-120.39	776.99
	53.41	516.39	217.91	393.13	-111.08	717.22
	47.73	461.06	194.59	351.01	-99.12	640.38
	40.79	393.44	166.08	299.53	-84.50	546.46

	32.58	313.52	132.38	238.69	-67.21	435.46
	23.12	221.31	93.50	168.48	-47.27	307.38
	12.38	116.80	49.44	88.92	-24.67	162.23
	0.00	0.39	0.00	0.20	0.00	0.59
1.75	-0.39	0.00	-0.20	0.00	-0.59	0.00
	11.44	113.65	47.82	86.56	-24.94	157.84
	22.03	215.33	90.79	164.01	-46.73	299.06
	31.37	305.05	128.70	232.35	-65.96	423.67
	39.46	382.81	161.56	291.58	-82.63	531.67
	46.31	448.61	189.36	341.70	-96.73	623.05
	51.92	502.44	212.10	382.70	-108.27	697.81
	56.28	544.31	229.80	414.59	-117.24	755.96
	59.39	574.21	242.43	437.37	-123.65	797.50
	61.26	592.16	250.01	451.04	-127.49	822.42
	62.04	592.16	250.41	451.04	-126.32	822.42
	60.17	574.21	242.82	437.37	-122.47	797.50
	57.06	544.31	230.19	414.59	-116.07	755.96
	52.70	502.44	212.50	382.70	-107.09	697.81
	47.10	448.61	189.75	341.70	-95.56	623.05
	40.25	382.81	161.95	291.58	-81.45	531.67
	32.15	305.05	129.09	232.35	-64.79	423.67
	22.81	215.33	91.18	164.01	-45.56	299.06
	12.22	113.65	48.22	86.56	-23.77	157.84
	0.00	0.39	0.00	0.20	0.00	0.59
1.80	-0.39	0.00	-0.20	0.00	-0.59	0.00
	11.29	110.67	46.67	84.34	-24.09	153.69
	21.74	209.68	88.60	159.79	-45.12	291.21
	30.96	297.05	125.60	226.38	-63.67	412.55
	38.95	372.77	157.66	284.08	-79.75	517.70
	45.72	436.84	184.79	332.90	-93.36	606.69
	51.25	489.26	206.99	372.85	-104.49	679.49
	55.55	530.04	224.26	403.92	-113.15	736.11
	58.63	559.16	236.59	426.12	-119.33	776.56
	60.47	576.63	243.99	439.43	-123.04	800.82
	61.25	576.63	244.38	439.43	-121.87	800.82
	59.41	559.16	236.98	426.12	-118.16	776.56
	56.34	530.04	224.65	403.92	-111.98	736.11
	52.03	489.26	207.38	372.85	-103.32	679.49
	46.50	436.84	185.18	332.90	-92.18	606.69
	39.74	372.77	158.05	284.08	-78.58	517.70
	31.74	297.05	125.99	226.38	-62.50	412.55
	22.52	209.68	88.99	159.79	-43.94	291.21
	12.07	110.67	47.06	84.34	-22.92	153.69
	0.00	0.39	0.00	0.20	0.00	0.59
1.85	-0.39	0.00	-0.20	0.00	-0.59	0.00

	11.15	107.85	45.57	82.23	-23.28	149.77
	21.47	204.35	86.53	155.80	-43.59	283.78
	30.58	289.49	122.66	220.72	-61.50	402.02
	38.47	363.28	153.98	276.98	-77.03	504.50
	45.15	425.72	180.48	324.59	-90.17	591.21
	50.62	476.81	202.16	363.54	-100.92	662.16
	54.87	516.54	219.02	393.84	-109.28	717.34
	57.91	544.92	231.06	415.48	-115.25	756.75
	59.73	561.95	238.29	428.46	-118.83	780.40
	60.51	561.95	238.68	428.46	-117.66	780.40
	58.69	544.92	231.45	415.48	-114.08	756.75
	55.65	516.54	219.41	393.84	-108.10	717.34
	51.40	476.81	202.55	363.54	-99.74	662.16
	45.94	425.72	180.87	324.59	-88.99	591.21
	39.26	363.28	154.37	276.98	-75.86	504.50
	31.36	289.49	123.05	220.72	-60.33	402.02
	22.25	204.35	86.92	155.80	-42.41	283.78
	11.93	107.85	45.97	82.23	-22.11	149.77
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
1.90	11.01	105.18	44.54	80.24	-22.51	146.06
	21.22	199.29	84.57	152.02	-42.13	276.75
	30.22	282.33	119.88	215.37	-59.44	392.06
	38.02	354.29	150.49	270.27	-74.45	491.99
	44.62	415.19	176.39	316.72	-87.14	576.56
	50.03	465.01	197.58	354.72	-97.53	645.74
	54.23	503.76	214.06	384.28	-105.61	699.55
	57.23	531.44	225.83	405.40	-111.38	737.99
	59.03	548.05	232.90	418.07	-114.84	761.05
	59.81	548.05	233.29	418.07	-113.67	761.05
	58.01	531.44	226.23	405.40	-110.20	737.99
	55.01	503.76	214.45	384.28	-104.43	699.55
	50.81	465.01	197.97	354.72	-96.35	645.74
	45.41	415.19	176.78	316.72	-85.97	576.56
	38.80	354.29	150.88	270.27	-73.27	491.99
	31.00	282.33	120.27	215.37	-58.27	392.06
	22.00	199.29	84.96	152.02	-40.96	276.75
	11.79	105.18	44.93	80.24	-21.34	146.06
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
1.95	10.89	102.65	43.56	78.34	-21.79	142.54
	20.98	194.49	82.71	148.44	-40.75	270.07
	29.88	275.53	117.25	210.29	-57.49	382.61
	37.60	345.77	147.19	263.89	-71.99	480.13
	44.12	405.19	172.52	309.25	-84.27	562.66

	49.47	453.82	193.24	346.36	-94.31	630.17
	53.62	491.64	209.36	375.23	-102.12	682.69
	56.59	518.65	220.88	395.84	-107.70	720.20
	58.37	534.86	227.78	408.21	-111.04	742.71
	59.15	534.86	228.18	408.21	-109.87	742.71
	57.37	518.65	221.27	395.84	-106.52	720.20
	54.40	491.64	209.75	375.23	-100.95	682.69
	50.25	453.82	193.63	346.36	-93.14	630.17
	44.91	405.19	172.91	309.25	-83.09	562.66
	38.38	345.77	147.58	263.89	-70.82	480.13
	30.66	275.53	117.64	210.29	-56.32	382.61
	21.76	194.49	83.10	148.44	-39.58	270.07
	11.67	102.65	43.95	78.34	-20.61	142.54
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
2.00	10.77	100.25	42.63	76.55	-21.09	139.20
	20.75	189.94	80.94	145.04	-39.44	263.74
	29.56	269.08	114.75	205.47	-55.63	373.63
	37.19	337.67	144.05	257.84	-69.66	468.87
	43.65	395.71	168.84	302.16	-81.53	549.45
	48.94	443.19	189.12	338.42	-91.25	615.39
	53.05	480.12	204.90	366.62	-98.80	666.67
	55.98	506.50	216.17	386.77	-104.20	703.30
	57.75	522.33	222.93	398.85	-107.44	725.28
	58.53	522.33	223.32	398.85	-106.26	725.28
	56.77	506.50	216.56	386.77	-103.03	703.30
	53.83	480.12	205.29	366.62	-97.63	666.67
	49.72	443.19	189.51	338.42	-90.08	615.39
	44.43	395.71	169.23	302.16	-80.36	549.45
	37.97	337.67	144.44	257.84	-68.49	468.87
	30.34	269.08	115.14	205.47	-54.46	373.63
	21.53	189.94	81.33	145.04	-38.27	263.74
	11.55	100.25	43.02	76.55	-19.92	139.20
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
2.05	10.65	97.96	41.74	74.84	-20.43	136.01
	20.54	185.61	79.26	141.80	-38.19	257.71
	29.25	262.94	112.37	200.88	-53.86	365.09
	36.81	329.97	141.06	252.09	-67.44	458.15
	43.21	386.68	165.34	295.42	-78.93	536.90
	48.44	433.08	185.21	330.87	-88.33	601.33
	52.51	469.17	200.66	358.44	-95.65	651.44
	55.41	494.95	211.69	378.14	-100.87	687.23
	57.16	510.42	218.32	389.95	-104.00	708.71
	57.94	510.42	218.71	389.95	-102.83	708.71

	56.19	494.95	212.09	378.14	-99.70	687.23
	53.29	469.17	201.05	358.44	-94.47	651.44
	49.22	433.08	185.60	330.87	-87.16	601.33
	43.99	386.68	165.73	295.42	-77.76	536.90
	37.59	329.97	141.46	252.09	-66.27	458.15
	30.04	262.94	112.76	200.88	-52.69	365.09
	21.32	185.61	79.65	141.80	-37.02	257.71
	11.44	97.96	42.13	74.84	-19.26	136.01
	0.00	0.39	0.00	0.20	0.00	0.59
2.10	-0.39	0.00	-0.20	0.00	-0.59	0.00
	10.55	95.78	40.90	73.21	-19.81	132.99
	20.33	181.48	77.67	138.72	-37.00	251.97
	28.97	257.10	110.11	196.52	-52.18	356.96
	36.45	322.64	138.23	246.61	-65.33	447.95
	42.78	378.09	162.02	289.00	-76.45	524.95
	47.96	423.46	181.48	323.68	-85.56	587.94
	51.99	458.75	196.62	350.65	-92.64	636.93
	54.87	483.95	207.44	369.92	-97.70	671.93
	56.60	499.08	213.93	381.48	-100.73	692.93
	57.38	499.08	214.32	381.48	-99.56	692.93
	55.65	483.95	207.83	369.92	-96.52	671.93
	52.77	458.75	197.01	350.65	-91.46	636.93
	48.74	423.46	181.87	323.68	-84.38	587.94
	43.56	378.09	162.41	289.00	-75.28	524.95
	37.23	322.64	138.62	246.61	-64.15	447.95
	29.75	257.10	110.50	196.52	-51.00	356.96
	21.11	181.48	78.06	138.72	-35.83	251.97
	11.33	95.78	41.29	73.21	-18.63	132.99
	0.00	0.39	0.00	0.20	0.00	0.59
2.15	-0.39	0.00	-0.20	0.00	-0.59	0.00
	10.44	93.71	40.10	71.66	-19.21	130.10
	20.14	177.55	76.14	135.78	-35.87	246.50
	28.69	251.53	107.95	192.36	-50.57	349.21
	36.11	315.65	135.52	241.39	-63.31	438.23
	42.38	369.90	158.85	282.88	-74.09	513.55
	47.51	414.29	177.93	316.83	-82.91	575.18
	51.51	448.81	192.78	343.23	-89.77	623.11
	54.36	473.47	203.38	362.09	-94.67	657.35
	56.07	488.27	209.74	373.40	-97.61	677.89
	56.85	488.27	210.13	373.40	-96.43	677.89
	55.14	473.47	203.77	362.09	-93.49	657.35
	52.29	448.81	193.17	343.23	-88.59	623.11
	48.30	414.29	178.32	316.83	-81.73	575.18
	43.16	369.90	159.24	282.88	-72.91	513.55
	36.89	315.65	135.91	241.39	-62.13	438.23

	29.48	251.53	108.34	192.36	-49.39	349.21	
	20.92	177.55	76.54	135.78	-34.69	246.50	
	11.23	93.71	40.49	71.66	-18.03	130.10	
	0.00	0.39	0.00	0.20	0.00	0.59	
2.20	-0.39	0.00	-0.20	0.00	-0.59	0.00	
	10.35	91.73	39.33	70.18	-18.63	127.34	
	19.96	173.80	74.69	132.98	-34.78	241.28	
	28.43	246.22	105.90	188.39	-49.03	341.82	
	35.78	308.98	132.94	236.41	-61.38	428.95	
	42.00	362.08	155.82	277.04	-71.83	502.68	
	47.09	405.53	174.55	310.29	-80.37	563.00	
	51.04	439.33	189.11	336.14	-87.02	609.91	
	53.87	463.47	199.51	354.61	-91.77	643.43	
	55.56	477.95	205.75	365.70	-94.62	663.53	
	56.35	477.95	206.14	365.70	-93.45	663.53	
	54.65	463.47	199.90	354.61	-90.60	643.43	
	51.82	439.33	189.50	336.14	-85.85	609.91	
	47.87	405.53	174.94	310.29	-79.20	563.00	
	42.78	362.08	156.21	277.04	-70.65	502.68	
	36.56	308.98	133.33	236.41	-60.20	428.95	
	29.22	246.22	106.29	188.39	-47.86	341.82	
	20.74	173.80	75.08	132.98	-33.61	241.28	
	11.13	91.73	39.72	70.18	-17.46	127.34	
	0.00	0.39	0.00	0.20	0.00	0.59	
	2.25	-0.39	0.00	-0.20	0.00	-0.59	0.00
		10.67	90.25	39.02	69.19	-17.67	125.28
20.58		171.01	74.10	131.10	-32.95	237.37	
29.31		242.26	105.06	185.72	-46.43	336.27	
36.88		304.02	131.89	233.06	-58.12	421.99	
43.29		356.27	154.59	273.12	-68.01	494.52	
48.53		399.02	173.16	305.89	-76.10	553.86	
52.61		432.27	187.61	331.38	-82.39	600.02	
55.52		456.02	197.93	349.59	-86.89	632.98	
57.27		470.27	204.12	360.51	-89.59	652.77	
58.05		470.27	204.51	360.51	-88.41	652.77	
56.30		456.02	198.32	349.59	-85.72	632.98	
53.39		432.27	188.00	331.38	-81.22	600.02	
49.31		399.02	173.55	305.89	-74.93	553.86	
44.07		356.27	154.98	273.12	-66.84	494.52	
37.66		304.02	132.28	233.06	-56.95	421.99	
30.09		242.26	105.45	185.72	-45.26	336.27	
21.36		171.01	74.49	131.10	-31.78	237.37	
11.46		90.25	39.41	69.19	-16.49	125.28	
0.00		0.39	0.00	0.20	0.00	0.59	
2.30	-0.39	0.00	-0.20	0.00	-0.59	0.00	

	10.58	88.44	38.31	67.84	-17.15	122.76
	20.40	167.58	72.77	128.53	-31.96	232.59
	29.07	237.40	103.17	182.09	-45.03	329.51
	36.58	297.91	129.52	228.50	-56.36	413.50
	42.93	349.12	151.82	267.77	-65.95	484.57
	48.13	391.01	170.06	299.91	-73.79	542.72
	52.18	423.60	184.25	324.90	-79.90	587.95
	55.06	446.87	194.38	342.75	-84.25	620.25
	56.80	460.83	200.46	353.46	-86.87	639.63
	57.58	460.83	200.85	353.46	-85.69	639.63
	55.85	446.87	194.77	342.75	-83.08	620.25
	52.96	423.60	184.64	324.90	-78.72	587.95
	48.91	391.01	170.45	299.91	-72.62	542.72
	43.71	349.12	152.21	267.77	-64.78	484.57
	37.36	297.91	129.91	228.50	-55.19	413.50
	29.85	237.40	103.56	182.09	-43.86	329.51
	21.19	167.58	73.16	128.53	-30.79	232.59
	11.37	88.44	38.71	67.84	-15.97	122.76
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
2.35	10.50	86.71	37.64	66.54	-16.65	120.35
	20.24	164.29	71.50	126.08	-31.01	228.02
	28.84	232.74	101.37	178.61	-43.69	323.03
	36.29	292.07	127.26	224.14	-54.68	405.37
	42.59	342.27	149.16	262.66	-63.98	475.05
	47.75	383.34	167.09	294.18	-71.58	532.05
	51.76	415.29	181.03	318.69	-77.50	576.39
	54.63	438.11	190.99	336.20	-81.73	608.06
	56.35	451.80	196.96	346.71	-84.26	627.06
	57.13	451.80	197.35	346.71	-83.09	627.06
	55.41	438.11	191.38	336.20	-80.55	608.06
	52.55	415.29	181.42	318.69	-76.33	576.39
	48.53	383.34	167.48	294.18	-70.41	532.05
	43.38	342.27	149.56	262.66	-62.80	475.05
	37.07	292.07	127.65	224.14	-53.51	405.37
	29.62	232.74	101.76	178.61	-42.52	323.03
	21.02	164.29	71.89	126.08	-29.84	228.02
	11.28	86.71	38.03	66.54	-15.47	120.35
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
2.40	10.42	85.05	37.00	65.30	-16.17	118.03
	20.09	161.14	70.28	123.72	-30.11	223.64
	28.62	228.28	99.64	175.28	-42.41	316.83
	36.01	286.48	125.09	219.95	-53.06	397.59
	42.27	335.71	146.63	257.76	-62.08	465.92

	47.39	376.00	164.24	288.69	-69.46	521.83
	51.37	407.33	177.95	312.75	-75.20	565.32
	54.22	429.71	187.74	329.93	-79.30	596.38
	55.92	443.14	193.61	340.24	-81.76	615.02
	56.70	443.14	194.00	340.24	-80.59	615.02
	55.00	429.71	188.13	329.93	-78.13	596.38
	52.15	407.33	178.34	312.75	-74.03	565.32
	48.17	376.00	164.64	288.69	-68.29	521.83
	43.05	335.71	147.02	257.76	-60.91	465.92
	36.80	286.48	125.48	219.95	-51.89	397.59
	29.40	228.28	100.03	175.28	-41.23	316.83
	20.87	161.14	70.67	123.72	-28.93	223.64
	11.20	85.05	37.39	65.30	-14.99	118.03
	0.00	0.39	0.00	0.20	0.00	0.59
2.45	-0.39	0.00	-0.20	0.00	-0.59	0.00
	10.34	83.45	36.38	64.11	-15.71	115.82
	19.94	158.12	69.11	121.47	-29.23	219.44
	28.41	224.01	97.99	172.08	-41.17	310.88
	35.75	281.11	123.01	215.95	-51.51	390.12
	41.96	329.42	144.19	253.06	-60.27	457.17
	47.04	368.95	161.52	283.43	-67.43	512.03
	51.00	399.70	174.99	307.05	-73.00	554.70
	53.82	421.66	184.62	323.92	-76.98	585.18
	55.51	434.84	190.39	334.04	-79.37	603.47
	56.30	434.84	190.79	334.04	-78.19	603.47
	54.60	421.66	185.01	323.92	-75.81	585.18
	51.78	399.70	175.38	307.05	-71.83	554.70
	47.83	368.95	161.91	283.43	-66.26	512.03
	42.74	329.42	144.58	253.06	-59.09	457.17
	36.53	281.11	123.41	215.95	-50.34	390.12
	29.19	224.01	98.38	172.08	-40.00	310.88
	20.72	158.12	69.50	121.47	-28.06	219.44
	11.12	83.45	36.77	64.11	-14.53	115.82
	0.00	0.39	0.00	0.20	0.00	0.59
2.50	-0.39	0.00	-0.20	0.00	-0.59	0.00
	10.67	82.33	36.20	63.37	-14.86	114.24
	20.57	156.00	68.76	120.08	-27.63	216.45
	29.30	220.99	97.49	170.11	-38.89	306.64
	36.87	277.33	122.39	213.47	-48.66	384.80
	43.27	324.99	143.46	250.16	-56.92	450.94
	48.51	363.99	160.70	280.18	-63.68	505.05
	52.59	394.32	174.11	303.52	-68.93	547.14
	55.50	415.99	183.68	320.20	-72.69	577.20
	57.24	428.99	189.43	330.21	-74.94	595.24
	58.03	428.99	189.82	330.21	-73.77	595.24

	56.28	415.99	184.08	320.20	-71.52	577.20
	53.37	394.32	174.50	303.52	-67.76	547.14
	49.29	363.99	161.09	280.18	-62.50	505.05
	44.05	324.99	143.85	250.16	-55.74	450.94
	37.65	277.33	122.78	213.47	-47.48	384.80
	30.08	220.99	97.88	170.11	-37.72	306.64
	21.35	156.00	69.15	120.08	-26.45	216.45
	11.45	82.33	36.59	63.37	-13.68	114.24
	0.00	0.39	0.00	0.20	0.00	0.59
2.55	-0.39	0.00	-0.20	0.00	-0.59	0.00
	10.60	80.86	35.63	62.27	-14.43	112.19
	20.43	153.21	67.68	117.99	-26.82	212.57
	29.10	217.05	95.96	167.16	-37.76	301.15
	36.62	272.37	120.47	209.76	-47.23	377.91
	42.98	319.19	141.21	245.82	-55.25	442.86
	48.19	357.49	158.18	275.32	-61.81	496.01
	52.23	387.28	171.38	298.26	-66.91	537.34
	55.13	408.56	180.80	314.65	-70.55	566.87
	56.86	421.33	186.46	324.48	-72.74	584.58
	57.64	421.33	186.85	324.48	-71.56	584.58
	55.91	408.56	181.19	314.65	-69.38	566.87
	53.02	387.28	171.77	298.26	-65.73	537.34
	48.97	357.49	158.57	275.32	-60.63	496.01
	43.76	319.19	141.60	245.82	-54.07	442.86
	37.40	272.37	120.86	209.76	-46.06	377.91
	29.88	217.05	96.35	167.16	-36.58	301.15
	21.21	153.21	68.07	117.99	-25.65	212.57
	11.38	80.86	36.02	62.27	-13.26	112.19
	0.00	0.39	0.00	0.20	0.00	0.59
2.60	-0.39	0.00	-0.20	0.00	-0.59	0.00
	10.53	79.45	35.08	61.22	-14.03	110.22
	20.29	150.53	66.64	115.99	-26.05	208.85
	28.91	213.25	94.49	164.32	-36.66	295.87
	36.38	267.61	118.62	206.21	-45.86	371.28
	42.70	313.60	139.05	241.65	-53.64	435.10
	47.88	351.24	155.76	270.64	-60.00	487.31
	51.90	380.51	168.75	293.20	-64.96	527.92
	54.77	401.41	178.03	309.31	-68.49	556.93
	56.49	413.96	183.60	318.97	-70.62	574.33
	57.28	413.96	184.00	318.97	-69.44	574.33
	55.55	401.41	178.43	309.31	-67.32	556.93
	52.68	380.51	169.14	293.20	-63.78	527.92
	48.66	351.24	156.15	270.64	-58.83	487.31
	43.49	313.60	139.44	241.65	-52.47	435.10
	37.17	267.61	119.02	206.21	-44.68	371.28

	29.70	213.25	94.88	164.32	-35.49	295.87
	21.08	150.53	67.03	115.99	-24.88	208.85
	11.31	79.45	35.47	61.22	-12.85	110.22
	0.00	0.39	0.00	0.20	0.00	0.59
2.65	-0.39	0.00	-0.20	0.00	-0.59	0.00
	10.46	78.09	34.55	60.20	-13.63	108.33
	20.17	147.95	65.64	114.06	-25.31	205.26
	28.73	209.60	93.08	161.59	-35.61	290.79
	36.16	263.03	116.85	202.78	-44.54	364.91
	42.44	308.23	136.97	237.63	-52.09	427.63
	47.58	345.22	153.43	266.15	-58.27	478.94
	51.58	373.99	166.23	288.33	-63.08	518.86
	54.43	394.54	175.37	304.17	-66.51	547.36
	56.14	406.87	180.86	313.68	-68.57	564.47
	56.93	406.87	181.25	313.68	-67.40	564.47
	55.21	394.54	175.76	304.17	-65.34	547.36
	52.36	373.99	166.62	288.33	-61.90	518.86
	48.36	345.22	153.82	266.15	-57.10	478.94
	43.22	308.23	137.36	237.63	-50.92	427.63
	36.94	263.03	117.24	202.78	-43.36	364.91
	29.52	209.60	93.47	161.59	-34.44	290.79
	20.95	147.95	66.03	114.06	-24.14	205.26
	11.24	78.09	34.94	60.20	-12.46	108.33
	0.00	0.39	0.00	0.20	0.00	0.59
2.70	-0.39	0.00	-0.20	0.00	-0.59	0.00
	10.43	76.82	34.09	59.26	-13.22	106.56
	20.12	145.55	64.76	112.29	-24.52	201.91
	28.67	206.19	91.82	159.07	-34.49	286.04
	36.07	258.75	115.28	199.62	-43.13	358.95
	42.34	303.22	135.12	233.93	-50.44	420.65
	47.47	339.61	151.36	262.00	-56.42	471.13
	51.46	367.91	163.99	283.84	-61.08	510.39
	54.31	388.12	173.01	299.43	-64.40	538.43
	56.02	400.25	178.42	308.79	-66.39	555.26
	56.80	400.25	178.82	308.79	-65.22	555.26
	55.09	388.12	173.40	299.43	-63.23	538.43
	52.24	367.91	164.38	283.84	-59.90	510.39
	48.25	339.61	151.75	262.00	-55.25	471.13
	43.12	303.22	135.51	233.93	-49.27	420.65
	36.86	258.75	115.67	199.62	-41.96	358.95
	29.45	206.19	92.21	159.07	-33.31	286.04
	20.90	145.55	65.15	112.29	-23.34	201.91
	11.22	76.82	34.48	59.26	-12.04	106.56
	0.00	0.39	0.00	0.20	0.00	0.59
2.75	-0.39	0.00	-0.20	0.00	-0.59	0.00

	10.37	75.55	33.60	58.32	-12.85	104.81
	20.00	143.16	63.83	110.50	-23.83	198.58
	28.50	202.80	90.51	156.54	-33.51	281.33
	35.86	254.50	113.63	196.44	-41.90	353.04
	42.10	298.24	133.19	230.21	-49.00	413.72
	47.19	334.03	149.20	257.83	-54.81	463.36
	51.16	361.87	161.65	279.32	-59.33	501.98
	53.99	381.75	170.54	294.67	-62.56	529.56
	55.69	393.68	175.88	303.88	-64.50	546.11
	56.47	393.68	176.27	303.88	-63.32	546.11
	54.77	381.75	170.93	294.67	-61.39	529.56
	51.94	361.87	162.04	279.32	-58.16	501.98
	47.98	334.03	149.59	257.83	-53.64	463.36
	42.88	298.24	133.59	230.21	-47.83	413.72
	36.65	254.50	114.02	196.44	-40.73	353.04
	29.28	202.80	90.90	156.54	-32.34	281.33
	20.78	143.16	64.22	110.50	-22.65	198.58
	11.15	75.55	33.99	58.32	-11.68	104.81
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
2.80	10.31	74.34	33.13	57.41	-12.50	103.12
	19.89	140.85	62.94	108.78	-23.16	195.38
	28.34	199.54	89.25	154.10	-32.57	276.79
	35.66	250.40	112.04	193.38	-40.72	347.34
	41.86	293.44	131.34	226.62	-47.61	407.04
	46.93	328.65	147.12	253.82	-53.26	455.88
	50.87	356.04	159.40	274.97	-57.65	493.87
	53.69	375.60	168.17	290.08	-60.78	521.01
	55.38	387.34	173.43	299.14	-62.66	537.29
	56.16	387.34	173.82	299.14	-61.49	537.29
	54.47	375.60	168.56	290.08	-59.61	521.01
	51.66	356.04	159.79	274.97	-56.47	493.87
	47.71	328.65	147.51	253.82	-52.08	455.88
	42.64	293.44	131.73	226.62	-46.44	407.04
	36.45	250.40	112.44	193.38	-39.54	347.34
	29.12	199.54	89.64	154.10	-31.39	276.79
	20.67	140.85	63.33	108.78	-21.99	195.38
	11.09	74.34	33.52	57.41	-11.33	103.12
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
2.85	10.26	73.16	32.67	56.53	-12.16	101.48
	19.78	138.63	62.08	107.12	-22.52	192.28
	28.19	196.39	88.03	151.75	-31.65	272.40
	35.47	246.45	110.52	190.43	-39.57	341.84
	41.64	288.81	129.54	223.16	-46.27	400.59

	46.68	323.46	145.11	249.94	-51.76	448.66
	50.60	350.42	157.22	270.77	-56.02	486.05
	53.40	369.67	165.87	285.65	-59.07	512.76
	55.08	381.22	171.06	294.57	-60.89	528.78
	55.87	381.22	171.45	294.57	-59.72	528.78
	54.18	369.67	166.26	285.65	-57.89	512.76
	51.38	350.42	157.61	270.77	-54.85	486.05
	47.46	323.46	145.50	249.94	-50.58	448.66
	42.42	288.81	129.93	223.16	-45.10	400.59
	36.25	246.45	110.91	190.43	-38.40	341.84
	28.97	196.39	88.42	151.75	-30.48	272.40
	20.56	138.63	62.47	107.12	-21.34	192.28
	11.04	73.16	33.06	56.53	-10.99	101.48
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
2.90	10.20	72.03	32.23	55.69	-11.83	99.91
	19.68	136.48	61.25	105.51	-21.89	189.30
	28.04	193.35	86.85	149.48	-30.77	268.17
	35.29	242.63	109.04	187.58	-38.47	336.53
	41.42	284.33	127.81	219.82	-44.98	394.37
	46.43	318.45	143.18	246.20	-50.31	441.69
	50.34	344.99	155.12	266.72	-54.45	478.50
	53.12	363.95	163.66	281.37	-57.41	504.79
	54.80	375.32	168.78	290.16	-59.18	520.57
	55.58	375.32	169.17	290.16	-58.01	520.57
	53.91	363.95	164.05	281.37	-56.24	504.79
	51.12	344.99	155.51	266.72	-53.28	478.50
	47.22	318.45	143.57	246.20	-49.13	441.69
	42.20	284.33	128.21	219.82	-43.81	394.37
	36.07	242.63	109.43	187.58	-37.29	336.53
	28.82	193.35	87.24	149.48	-29.60	268.17
	20.46	136.48	61.64	105.51	-20.72	189.30
	10.98	72.03	32.62	55.69	-10.66	99.91
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
2.95	10.15	70.94	31.81	54.87	-11.52	98.38
	19.58	134.41	60.45	103.97	-21.29	186.41
	27.90	190.41	85.72	147.28	-29.92	264.09
	35.11	238.95	107.61	184.83	-37.40	331.40
	41.21	280.01	126.14	216.59	-43.73	388.36
	46.20	313.62	141.31	242.59	-48.90	434.96
	50.08	339.75	153.10	262.80	-52.93	471.21
	52.86	358.42	161.52	277.24	-55.81	497.10
	54.52	369.62	166.57	285.91	-57.53	512.64
	55.30	369.62	166.96	285.91	-56.36	512.64

	53.64	358.42	161.91	277.24	-54.63	497.10
	50.87	339.75	153.49	262.80	-51.76	471.21
	46.98	313.62	141.70	242.59	-47.73	434.96
	41.99	280.01	126.54	216.59	-42.55	388.36
	35.89	238.95	108.01	184.83	-36.23	331.40
	28.68	190.41	86.11	147.28	-28.75	264.09
	20.36	134.41	60.84	103.97	-20.12	186.41
	10.93	70.94	32.20	54.87	-10.34	98.38
	0.00	0.39	0.00	0.20	0.00	0.59
3.00	-0.39	0.00	-0.20	0.00	-0.59	0.00
	10.10	69.88	31.40	54.08	-11.21	96.91
	19.48	132.40	59.67	102.47	-20.71	183.63
	27.76	187.57	84.62	145.16	-29.10	260.14
	34.94	235.38	106.24	182.17	-36.37	326.44
	41.01	275.84	124.53	213.48	-42.52	382.55
	45.98	308.94	139.50	239.09	-47.55	428.46
	49.84	334.69	151.14	259.02	-51.46	464.16
	52.60	353.08	159.45	273.25	-54.26	489.67
	54.26	364.11	164.44	281.79	-55.93	504.97
	55.04	364.11	164.83	281.79	-54.76	504.97
	53.38	353.08	159.85	273.25	-53.08	489.67
	50.62	334.69	151.53	259.02	-50.29	464.16
	46.76	308.94	139.89	239.09	-46.37	428.46
	41.79	275.84	124.92	213.48	-41.34	382.55
	35.72	235.38	106.63	182.17	-35.19	326.44
	28.54	187.57	85.01	145.16	-27.92	260.14
	20.26	132.40	60.06	102.47	-19.54	183.63
	10.88	69.88	31.79	54.08	-10.04	96.91
	0.00	0.39	0.00	0.20	0.00	0.59
3.05	-0.39	0.00	-0.20	0.00	-0.59	0.00
	10.05	68.86	31.01	53.32	-10.91	95.49
	19.39	130.47	58.92	101.02	-20.15	180.93
	27.63	184.83	83.56	143.11	-28.30	256.32
	34.77	231.94	104.91	179.59	-35.37	321.65
	40.81	271.80	122.97	210.46	-41.34	376.94
	45.76	304.42	137.75	235.72	-46.23	422.17
	49.60	329.79	149.25	255.36	-50.04	457.35
	52.35	347.91	157.46	269.39	-52.75	482.48
	54.00	358.78	162.38	277.81	-54.39	497.55
	54.78	358.78	162.78	277.81	-53.21	497.55
	53.13	347.91	157.85	269.39	-51.58	482.48
	50.39	329.79	149.64	255.36	-48.86	457.35
	46.54	304.42	138.14	235.72	-45.06	422.17
	41.60	271.80	123.36	210.46	-40.17	376.94
	35.55	231.94	105.30	179.59	-34.19	321.65

	28.41	184.83	83.95	143.11	-27.13	256.32
	20.17	130.47	59.32	101.02	-18.98	180.93
	10.83	68.86	31.40	53.32	-9.74	95.49
	0.00	0.39	0.00	0.20	0.00	0.59
3.10	-0.39	0.00	-0.20	0.00	-0.59	0.00
	10.43	68.29	31.05	53.00	-10.20	94.69
	20.11	129.40	59.01	100.43	-18.80	179.41
	28.65	183.32	83.68	142.28	-26.38	254.17
	36.05	230.04	105.06	178.54	-32.96	318.95
	42.31	269.58	123.15	209.23	-38.52	373.77
	47.44	301.93	137.95	234.34	-43.08	418.63
	51.42	327.09	149.46	253.87	-46.62	453.51
	54.27	345.06	157.68	267.81	-49.15	478.43
	55.98	355.85	162.62	276.18	-50.66	493.38
	56.76	355.85	163.01	276.18	-49.49	493.38
	55.05	345.06	158.07	267.81	-47.97	478.43
	52.20	327.09	149.85	253.87	-45.44	453.51
	48.22	301.93	138.34	234.34	-41.90	418.63
	43.09	269.58	123.54	209.23	-37.35	373.77
	36.83	230.04	105.45	178.54	-31.79	318.95
	29.43	183.32	84.07	142.28	-25.21	254.17
	20.89	129.40	59.40	100.43	-17.62	179.41
	11.21	68.29	31.44	53.00	-9.02	94.69
	0.00	0.39	0.00	0.20	0.00	0.59
3.15	-0.39	0.00	-0.20	0.00	-0.59	0.00
	10.38	67.33	30.68	52.29	-9.92	93.36
	20.02	127.58	58.31	99.07	-18.27	176.88
	28.52	180.74	82.68	140.35	-25.64	250.58
	35.89	226.81	103.81	176.13	-32.03	314.46
	42.13	265.80	121.68	206.40	-37.43	368.51
	47.23	297.69	136.31	231.17	-41.85	412.73
	51.20	322.50	147.68	250.43	-45.29	447.12
	54.03	340.22	155.81	264.19	-47.74	471.69
	55.73	350.85	160.68	272.45	-49.22	486.43
	56.51	350.85	161.07	272.45	-48.04	486.43
	54.81	340.22	156.20	264.19	-46.57	471.69
	51.98	322.50	148.07	250.43	-44.12	447.12
	48.01	297.69	136.70	231.17	-40.68	412.73
	42.91	265.80	122.07	206.40	-36.26	368.51
	36.67	226.81	104.20	176.13	-30.85	314.46
	29.30	180.74	83.07	140.35	-24.47	250.58
	20.80	127.58	58.70	99.07	-17.10	176.88
	11.16	67.33	31.07	52.29	-8.75	93.36
	0.00	0.39	0.00	0.20	0.00	0.59
3.20	-0.39	0.00	-0.20	0.00	-0.59	0.00

	10.33	66.41	30.32	51.59	-9.65	92.06
	19.93	125.82	57.62	97.76	-17.76	174.43
	28.40	178.25	81.72	138.49	-24.92	247.12
	35.74	223.68	102.60	173.79	-31.12	310.11
	41.95	262.13	120.26	203.66	-36.37	363.41
	47.03	293.58	134.72	228.10	-40.66	407.01
	50.98	318.05	145.96	247.11	-44.00	440.93
	53.80	335.52	153.99	260.69	-46.39	465.16
	55.50	346.01	158.81	268.83	-47.82	479.69
	56.28	346.01	159.20	268.83	-46.64	479.69
	54.59	335.52	154.38	260.69	-45.21	465.16
	51.76	318.05	146.35	247.11	-42.83	440.93
	47.81	293.58	135.11	228.10	-39.49	407.01
	42.73	262.13	120.65	203.66	-35.19	363.41
	36.52	223.68	102.99	173.79	-29.95	310.11
	29.18	178.25	82.11	138.49	-23.74	247.12
	20.71	125.82	58.02	97.76	-16.59	174.43
	11.12	66.41	30.71	51.59	-8.48	92.06
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
3.25	10.29	65.51	29.97	50.92	-9.39	90.81
	19.85	124.12	56.97	96.48	-17.27	172.06
	28.28	175.83	80.78	136.69	-24.22	243.75
	35.59	220.65	101.42	171.53	-30.24	305.89
	41.78	258.57	118.89	201.01	-35.34	358.46
	46.84	289.60	133.18	225.13	-39.51	401.48
	50.77	313.74	144.29	243.89	-42.75	434.93
	53.58	330.98	152.23	257.29	-45.07	458.83
	55.27	341.32	157.00	265.33	-46.46	473.17
	56.05	341.32	157.39	265.33	-45.28	473.17
	54.36	330.98	152.62	257.29	-43.89	458.83
	51.55	313.74	144.68	243.89	-41.58	434.93
	47.62	289.60	133.57	225.13	-38.33	401.48
	42.56	258.57	119.28	201.01	-34.16	358.46
	36.37	220.65	101.81	171.53	-29.07	305.89
	29.06	175.83	81.17	136.69	-23.04	243.75
	20.63	124.12	57.36	96.48	-16.09	172.06
	11.07	65.51	30.36	50.92	-8.22	90.81
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
3.30	10.67	65.05	30.06	50.69	-8.72	90.17
	20.57	123.26	57.13	96.05	-15.99	170.84
	29.30	174.62	81.01	136.07	-22.41	242.02
	36.87	219.13	101.71	170.75	-27.97	303.72
	43.28	256.79	119.22	200.10	-32.67	355.92

	48.52	287.61	133.55	224.11	-36.52	398.63
	52.59	311.58	144.70	242.79	-39.52	431.85
	55.50	328.70	152.66	256.13	-41.66	455.57
	57.25	338.97	157.44	264.13	-42.94	469.81
	58.03	338.97	157.83	264.13	-41.77	469.81
	56.28	328.70	153.05	256.13	-40.48	455.57
	53.37	311.58	145.09	242.79	-38.34	431.85
	49.30	287.61	133.94	224.11	-35.35	398.63
	44.06	256.79	119.61	200.10	-31.50	355.92
	37.65	219.13	102.10	170.75	-26.79	303.72
	30.08	174.62	81.40	136.07	-21.23	242.02
	21.35	123.26	57.52	96.05	-14.81	170.84
	11.45	65.05	30.45	50.69	-7.54	90.17
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
3.35	10.63	64.21	29.73	50.06	-8.47	88.99
	20.49	121.66	56.50	94.85	-15.52	168.61
	29.19	172.35	80.13	134.37	-21.75	238.86
	36.73	216.28	100.60	168.62	-27.14	299.74
	43.11	253.45	117.93	197.60	-31.71	351.26
	48.33	283.86	132.10	221.31	-35.44	393.41
	52.39	307.52	143.13	239.76	-38.35	426.20
	55.29	324.41	151.00	252.93	-40.42	449.61
	57.03	334.55	155.73	260.83	-41.67	463.67
	57.81	334.55	156.12	260.83	-40.49	463.67
	56.07	324.41	151.39	252.93	-39.25	449.61
	53.17	307.52	143.52	239.76	-37.17	426.20
	49.11	283.86	132.49	221.31	-34.27	393.41
	43.89	253.45	118.32	197.60	-30.53	351.26
	37.51	216.28	100.99	168.62	-25.97	299.74
	29.97	172.35	80.52	134.37	-20.58	238.86
	21.27	121.66	56.89	94.85	-14.35	168.61
	11.41	64.21	30.12	50.06	-7.30	88.99
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
3.40	10.59	63.38	29.41	49.44	-8.23	87.84
	20.41	120.10	55.90	93.68	-15.07	166.44
	29.08	170.14	79.27	132.72	-21.11	235.79
	36.59	213.51	99.53	166.55	-26.34	295.89
	42.95	250.20	116.67	195.18	-30.77	346.74
	48.15	280.23	130.69	218.60	-34.39	388.35
	52.20	303.58	141.60	236.81	-37.21	420.72
	55.09	320.26	149.39	249.82	-39.22	443.83
	56.82	330.27	154.07	257.63	-40.43	457.70
	57.60	330.27	154.46	257.63	-39.25	457.70

	55.87	320.26	149.78	249.82	-38.05	443.83
	52.98	303.58	141.99	236.81	-36.03	420.72
	48.93	280.23	131.09	218.60	-33.22	388.35
	43.73	250.20	117.06	195.18	-29.60	346.74
	37.38	213.51	99.92	166.55	-25.17	295.89
	29.86	170.14	79.66	132.72	-19.94	235.79
	21.20	120.10	56.29	93.68	-13.90	166.44
	11.37	63.38	29.80	49.44	-7.06	87.84
	0.00	0.39	0.00	0.20	0.00	0.59
3.45	-0.39	0.00	-0.20	0.00	-0.59	0.00
	10.59	62.62	29.14	48.89	-7.96	86.78
	20.41	118.66	55.39	92.63	-14.56	164.43
	29.08	168.10	78.55	131.22	-20.39	232.94
	36.59	210.94	98.62	164.67	-25.44	292.32
	42.95	247.20	115.60	192.97	-29.71	342.56
	48.15	276.86	129.50	216.13	-33.20	383.67
	52.19	299.94	140.30	234.14	-35.92	415.64
	55.08	316.42	148.02	247.00	-37.86	438.48
	56.82	326.30	152.66	254.72	-39.03	452.18
	57.60	326.30	153.05	254.72	-37.85	452.18
	55.86	316.42	148.42	247.00	-36.69	438.48
	52.97	299.94	140.70	234.14	-34.75	415.64
	48.93	276.86	129.89	216.13	-32.03	383.67
	43.73	247.20	115.99	192.97	-28.53	342.56
	37.37	210.94	99.01	164.67	-24.26	292.32
	29.86	168.10	78.94	131.22	-19.22	232.94
	21.19	118.66	55.78	92.63	-13.39	164.43
	11.37	62.62	29.53	48.89	-6.79	86.78
	0.00	0.39	0.00	0.20	0.00	0.59
3.50	-0.39	0.00	-0.20	0.00	-0.59	0.00
	10.55	61.85	28.84	48.31	-7.74	85.70
	20.34	117.19	54.82	91.53	-14.14	162.39
	28.98	166.01	77.74	129.67	-19.79	230.05
	36.46	208.33	97.61	162.72	-24.68	288.68
	42.80	244.14	114.42	190.68	-28.82	338.30
	47.98	273.44	128.17	213.57	-32.21	378.90
	52.01	296.22	138.87	231.36	-34.84	410.47
	54.89	312.50	146.51	244.08	-36.73	433.03
	56.62	322.26	151.09	251.70	-37.86	446.56
	57.40	322.26	151.48	251.70	-36.68	446.56
	55.67	312.50	146.90	244.08	-35.55	433.03
	52.79	296.22	139.26	231.36	-33.67	410.47
	48.76	273.44	128.56	213.57	-31.04	378.90
	43.58	244.14	114.81	190.68	-27.65	338.30
	37.25	208.33	98.00	162.72	-23.51	288.68

	29.76	166.01	78.13	129.67	-18.61	230.05	
	21.12	117.19	55.21	91.53	-12.97	162.39	
	11.33	61.85	29.23	48.31	-6.57	85.70	
	0.00	0.39	0.00	0.20	0.00	0.59	
3.55	-0.39	0.00	-0.20	0.00	-0.59	0.00	
	10.51	61.09	28.55	47.74	-7.52	84.65	
	20.27	115.76	54.27	90.46	-13.73	160.40	
	28.88	163.99	76.96	128.15	-19.20	227.23	
	36.34	205.79	96.63	160.82	-23.95	285.15	
	42.65	241.16	113.27	188.46	-27.96	334.16	
	47.82	270.10	126.88	211.08	-31.25	374.26	
	51.84	292.61	137.47	228.67	-33.80	405.45	
	54.71	308.69	145.04	241.23	-35.62	427.73	
	56.43	318.34	149.57	248.77	-36.72	441.10	
	57.21	318.34	149.97	248.77	-35.55	441.10	
	55.49	308.69	145.43	241.23	-34.45	427.73	
	52.62	292.61	137.86	228.67	-32.63	405.45	
	48.60	270.10	127.27	211.08	-30.07	374.26	
	43.44	241.16	113.66	188.46	-26.79	334.16	
	37.12	205.79	97.02	160.82	-22.77	285.15	
	29.66	163.99	77.35	128.15	-18.03	227.23	
	21.05	115.76	54.66	90.46	-12.55	160.40	
	11.30	61.09	28.94	47.74	-6.35	84.65	
	0.00	0.39	0.00	0.20	0.00	0.59	
	3.60	-0.39	0.00	-0.20	0.00	-0.59	0.00
		10.48	60.36	28.26	47.20	-7.31	83.64
20.20		114.37	53.73	89.43	-13.32	158.47	
28.78		162.02	76.20	126.69	-18.63	224.50	
36.22		203.33	95.67	158.98	-23.23	281.72	
42.51		238.27	112.15	186.30	-27.12	330.14	
47.66		266.86	125.63	208.66	-30.31	369.76	
51.67		289.10	136.11	226.05	-32.78	400.57	
54.53		304.99	143.60	238.47	-34.55	422.58	
56.24		314.52	148.10	245.92	-35.61	435.78	
57.02		314.52	148.49	245.92	-34.44	435.78	
55.31		304.99	144.00	238.47	-33.38	422.58	
52.45		289.10	136.51	226.05	-31.61	400.57	
48.44		266.86	126.02	208.66	-29.13	369.76	
43.29		238.27	112.54	186.30	-25.95	330.14	
37.00		203.33	96.06	158.98	-22.06	281.72	
29.57		162.02	76.59	126.69	-17.46	224.50	
20.98		114.37	54.12	89.43	-12.15	158.47	
11.26		60.36	28.66	47.20	-6.14	83.64	
0.00		0.39	0.00	0.20	0.00	0.59	
3.65	-0.39	0.00	-0.20	0.00	-0.59	0.00	

	10.44	59.65	27.99	46.66	-7.10	82.64
	20.14	113.02	53.21	88.42	-12.93	156.59
	28.69	160.11	75.46	125.26	-18.08	221.83
	36.10	200.93	94.74	157.19	-22.53	278.38
	42.38	235.46	111.06	184.20	-26.31	326.23
	47.51	263.71	124.41	206.31	-29.39	365.37
	51.50	285.69	134.80	223.50	-31.79	395.82
	54.35	301.39	142.21	235.78	-33.51	417.57
	56.06	310.81	146.66	243.15	-34.54	430.62
	56.84	310.81	147.05	243.15	-33.36	430.62
	55.13	301.39	142.60	235.78	-32.34	417.57
	52.28	285.69	135.19	223.50	-30.62	395.82
	48.29	263.71	124.80	206.31	-28.22	365.37
	43.16	235.46	111.45	184.20	-25.13	326.23
	36.89	200.93	95.13	157.19	-21.36	278.38
	29.47	160.11	75.85	125.26	-16.90	221.83
	20.92	113.02	53.60	88.42	-11.76	156.59
	11.23	59.65	28.38	46.66	-5.93	82.64
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
3.70	10.41	58.96	27.72	46.15	-6.90	81.68
	20.07	111.71	52.70	87.44	-12.55	154.76
	28.60	158.25	74.74	123.87	-17.54	219.25
	35.99	198.59	93.84	155.44	-21.86	275.13
	42.25	232.72	110.00	182.16	-25.51	322.42
	47.36	260.65	123.23	204.02	-28.50	361.11
	51.34	282.37	133.51	221.02	-30.83	391.20
	54.18	297.89	140.86	233.16	-32.49	412.70
	55.89	307.20	145.27	240.45	-33.49	425.60
	56.67	307.20	145.66	240.45	-32.32	425.60
	54.97	297.89	141.25	233.16	-31.32	412.70
	52.12	282.37	133.90	221.02	-29.66	391.20
	48.14	260.65	123.62	204.02	-27.33	361.11
	43.03	232.72	110.39	182.16	-24.34	322.42
	36.77	198.59	94.23	155.44	-20.68	275.13
	29.38	158.25	75.13	123.87	-16.36	219.25
	20.86	111.71	53.09	87.44	-11.38	154.76
	11.19	58.96	28.11	46.15	-5.73	81.68
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
3.75	10.38	58.28	27.46	45.64	-6.71	80.74
	20.01	110.43	52.21	86.48	-12.18	152.98
	28.51	156.44	74.04	122.52	-17.01	216.73
	35.88	196.32	92.96	153.75	-21.20	271.97
	42.12	230.06	108.98	180.17	-24.74	318.72

	47.22	257.67	122.08	201.79	-27.64	356.96
	51.19	279.14	132.26	218.61	-29.89	386.71
	54.02	294.48	139.54	230.62	-31.50	407.96
	55.72	303.68	143.91	237.83	-32.47	420.71
	56.50	303.68	144.30	237.83	-31.30	420.71
	54.80	294.48	139.93	230.62	-30.33	407.96
	51.97	279.14	132.66	218.61	-28.72	386.71
	48.00	257.67	122.47	201.79	-26.47	356.96
	42.90	230.06	109.37	180.17	-23.57	318.72
	36.66	196.32	93.35	153.75	-20.02	271.97
	29.30	156.44	74.43	122.52	-15.84	216.73
	20.80	110.43	52.60	86.48	-11.01	152.98
	11.16	58.28	27.85	45.64	-5.53	80.74
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
3.80	10.35	57.63	27.21	45.15	-6.51	79.83
	19.95	109.19	51.73	85.55	-11.82	151.25
	28.43	154.68	73.36	121.20	-16.50	214.28
	35.78	194.11	92.11	152.09	-20.55	268.90
	41.99	227.47	107.97	178.24	-23.99	315.11
	47.08	254.77	120.95	199.62	-26.80	352.92
	51.04	276.00	131.05	216.26	-28.98	382.34
	53.86	291.16	138.26	228.14	-30.54	403.34
	55.56	300.26	142.59	235.27	-31.48	415.95
	56.34	300.26	142.98	235.27	-30.30	415.95
	54.64	291.16	138.65	228.14	-29.37	403.34
	51.82	276.00	131.44	216.26	-27.81	382.34
	47.86	254.77	121.35	199.62	-25.62	352.92
	42.78	227.47	108.37	178.24	-22.81	315.11
	36.56	194.11	92.50	152.09	-19.38	268.90
	29.21	154.68	73.75	121.20	-15.33	214.28
	20.74	109.19	52.12	85.55	-10.65	151.25
	11.13	57.63	27.60	45.15	-5.34	79.83
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
3.85	10.77	57.44	27.41	45.13	-5.88	79.55
	20.75	108.83	52.11	85.50	-10.61	150.72
	29.56	154.17	73.91	121.13	-14.79	213.52
	37.19	193.47	92.79	152.00	-18.41	267.95
	43.65	226.72	108.78	178.13	-21.48	314.00
	48.94	253.93	121.85	199.50	-23.98	351.68
	53.05	275.09	132.02	216.13	-25.93	380.99
	55.98	290.21	139.29	228.00	-27.33	401.92
	57.74	299.27	143.65	235.13	-28.16	414.48
	58.53	299.27	144.04	235.13	-26.99	414.48

	56.76	290.21	139.68	228.00	-26.15	401.92
	53.83	275.09	132.41	216.13	-24.76	380.99
	49.72	253.93	122.24	199.50	-22.81	351.68
	44.43	226.72	109.17	178.13	-20.30	314.00
	37.97	193.47	93.18	152.00	-17.24	267.95
	30.34	154.17	74.30	121.13	-13.62	213.52
	21.53	108.83	52.50	85.50	-9.44	150.72
	11.55	57.44	27.80	45.13	-4.71	79.55
	0.00	0.39	0.00	0.20	0.00	0.59
3.90	-0.39	0.00	-0.20	0.00	-0.59	0.00
	10.74	56.81	27.17	44.66	-5.70	78.68
	20.69	107.65	51.65	84.62	-10.27	149.08
	29.48	152.50	73.26	119.88	-14.31	211.19
	37.09	191.37	91.98	150.43	-17.80	265.02
	43.53	224.26	107.82	176.29	-20.76	310.57
	48.80	251.17	120.79	197.44	-23.18	347.84
	52.90	272.10	130.87	213.90	-25.07	376.83
	55.83	287.05	138.07	225.65	-26.41	397.53
	57.59	296.02	142.39	232.70	-27.22	409.96
	58.37	296.02	142.78	232.70	-26.05	409.96
	56.61	287.05	138.46	225.65	-25.24	397.53
	53.68	272.10	131.26	213.90	-23.89	376.83
	49.58	251.17	121.18	197.44	-22.01	347.84
	44.31	224.26	108.22	176.29	-19.59	310.57
	37.87	191.37	92.37	150.43	-16.63	265.02
	30.26	152.50	73.65	119.88	-13.13	211.19
	21.47	107.65	52.04	84.62	-9.10	149.08
	11.52	56.81	27.56	44.66	-4.52	78.68
	0.00	0.39	0.00	0.20	0.00	0.59
3.95	-0.39	0.00	-0.20	0.00	-0.59	0.00
	10.71	56.21	26.93	44.21	-5.52	77.83
	20.64	106.49	51.21	83.76	-9.94	147.47
	29.40	150.87	72.63	118.66	-13.83	208.92
	36.99	189.32	91.19	148.90	-17.21	262.17
	43.41	221.86	106.90	174.50	-20.07	307.24
	48.67	248.49	119.75	195.44	-22.41	344.10
	52.76	269.19	129.74	211.72	-24.22	372.78
	55.68	283.98	136.88	223.36	-25.52	393.26
	57.43	292.86	141.17	230.34	-26.30	405.55
	58.21	292.86	141.56	230.34	-25.13	405.55
	56.46	283.98	137.27	223.36	-24.35	393.26
	53.54	269.19	130.13	211.72	-23.05	372.78
	49.45	248.49	120.14	195.44	-21.23	344.10
	44.20	221.86	107.29	174.50	-18.90	307.24
	37.77	189.32	91.58	148.90	-16.04	262.17

	30.18	150.87	73.02	118.66	-12.66	208.92	
	21.42	106.49	51.60	83.76	-8.76	147.47	
	11.49	56.21	27.33	44.21	-4.35	77.83	
	0.00	0.39	0.00	0.20	0.00	0.59	
4.00	-0.39	0.00	-0.20	0.00	-0.59	0.00	
	10.68	55.61	26.71	43.76	-5.35	77.01	
	20.58	105.37	50.77	82.92	-9.61	145.91	
	29.32	149.28	72.01	117.47	-13.37	206.71	
	36.89	187.33	90.42	147.41	-16.63	259.40	
	43.30	219.52	105.99	172.75	-19.39	303.98	
	48.54	245.87	118.73	193.48	-21.65	340.46	
	52.62	266.35	128.65	209.60	-23.40	368.83	
	55.54	280.99	135.73	221.12	-24.66	389.10	
	57.28	289.77	139.97	228.03	-25.41	401.26	
	58.06	289.77	140.36	228.03	-24.23	401.26	
	56.32	280.99	136.12	221.12	-23.48	389.10	
	53.40	266.35	129.04	209.60	-22.23	368.83	
	49.33	245.87	119.13	193.48	-20.47	340.46	
	44.08	219.52	106.38	172.75	-18.22	303.98	
	37.68	187.33	90.81	147.41	-15.46	259.40	
	30.10	149.28	72.40	117.47	-12.20	206.71	
	21.36	105.37	51.17	82.92	-8.44	145.91	
	11.46	55.61	27.10	43.76	-4.18	77.01	
	0.00	0.39	0.00	0.20	0.00	0.59	
	4.05	-0.39	0.00	-0.20	0.00	-0.59	0.00
		11.10	55.48	26.93	43.78	-4.74	76.81
21.38		105.12	51.20	82.95	-8.45	145.53	
30.45		148.93	72.61	117.51	-11.72	206.17	
38.31		186.89	91.17	147.47	-14.56	258.73	
44.96		219.01	106.88	172.81	-16.96	303.19	
50.40		245.29	119.73	193.55	-18.93	339.58	
54.63		265.73	129.72	209.68	-20.46	367.87	
57.65		280.33	136.86	221.20	-21.55	388.09	
59.47		289.09	141.14	228.11	-22.20	400.22	
60.25		289.09	141.53	228.11	-21.03	400.22	
58.44		280.33	137.25	221.20	-20.37	388.09	
55.41		265.73	130.11	209.68	-19.28	367.87	
51.18		245.29	120.12	193.55	-17.75	339.58	
45.74		219.01	107.27	172.81	-15.79	303.19	
39.09		186.89	91.56	147.47	-13.39	258.73	
31.23		148.93	73.00	117.51	-10.55	206.17	
22.16		105.12	51.59	82.95	-7.27	145.53	
11.88		55.48	27.32	43.78	-3.56	76.81	
0.00		0.39	0.00	0.20	0.00	0.59	
4.10	-0.39	0.00	-0.20	0.00	-0.59	0.00	

	11.07	54.92	26.71	43.36	-4.57	76.02
	21.32	104.06	50.79	82.15	-8.14	144.05
	30.37	147.41	72.03	116.38	-11.28	204.06
	38.21	184.99	90.44	146.05	-14.01	256.08
	44.85	216.78	106.02	171.15	-16.32	300.10
	50.28	242.80	118.76	191.69	-18.21	336.11
	54.50	263.03	128.67	207.66	-19.68	364.12
	57.52	277.48	135.75	219.07	-20.72	384.12
	59.32	286.15	140.00	225.92	-21.35	396.13
	60.11	286.15	140.39	225.92	-20.18	396.13
	58.30	277.48	136.15	219.07	-19.55	384.12
	55.28	263.03	129.06	207.66	-18.50	364.12
	51.06	242.80	119.15	191.69	-17.03	336.11
	45.63	216.78	106.41	171.15	-15.15	300.10
	39.00	184.99	90.83	146.05	-12.84	256.08
	31.15	147.41	72.42	116.38	-10.11	204.06
	22.11	104.06	51.18	82.15	-6.96	144.05
	11.85	54.92	27.10	43.36	-3.40	76.02
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
4.15	11.04	54.37	26.50	42.95	-4.41	75.26
	21.27	103.01	50.38	81.37	-7.84	142.59
	30.30	145.93	71.46	115.28	-10.86	202.01
	38.12	183.13	89.72	144.66	-13.48	253.50
	44.74	214.61	105.17	169.53	-15.69	297.07
	50.16	240.36	117.82	189.87	-17.50	332.72
	54.37	260.39	127.65	205.69	-18.91	360.45
	57.38	274.70	134.68	216.99	-19.92	380.25
	59.18	283.28	138.89	223.78	-20.52	392.13
	59.97	283.28	139.28	223.78	-19.35	392.13
	58.16	274.70	135.07	216.99	-18.75	380.25
	55.15	260.39	128.04	205.69	-17.74	360.45
	50.94	240.36	118.21	189.87	-16.33	332.72
	45.52	214.61	105.57	169.53	-14.52	297.07
	38.90	183.13	90.11	144.66	-12.30	253.50
	31.08	145.93	71.85	115.28	-9.68	202.01
	22.05	103.01	50.77	81.37	-6.66	142.59
	11.82	54.37	26.89	42.95	-3.24	75.26
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
4.20	11.05	53.87	26.33	42.58	-4.22	74.56
	21.29	102.06	50.06	80.68	-7.47	141.27
	30.33	144.59	71.00	114.30	-10.34	200.14
	38.16	181.45	89.14	143.44	-12.83	251.15
	44.79	212.63	104.50	168.09	-14.93	294.32

	50.21	238.15	117.06	188.26	-16.65	329.64
	54.42	258.00	126.84	203.95	-17.99	357.11
	57.43	272.17	133.82	215.15	-18.95	376.73
	59.24	280.68	138.00	221.88	-19.52	388.50
	60.02	280.68	138.39	221.88	-18.35	388.50
	58.22	272.17	134.21	215.15	-17.77	376.73
	55.20	258.00	127.23	203.95	-16.82	357.11
	50.99	238.15	117.45	188.26	-15.48	329.64
	45.57	212.63	104.89	168.09	-13.76	294.32
	38.94	181.45	89.54	143.44	-11.65	251.15
	31.11	144.59	71.39	114.30	-9.17	200.14
	22.08	102.06	50.45	80.68	-6.30	141.27
	11.84	53.87	26.72	42.58	-3.05	74.56
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
4.25	11.03	53.34	26.12	42.19	-4.07	73.83
	21.25	101.07	49.67	79.94	-7.18	139.89
	30.26	143.18	70.45	113.25	-9.93	198.18
	38.07	179.68	88.46	142.12	-12.32	248.69
	44.68	210.56	103.70	166.54	-14.33	291.44
	50.09	235.83	116.17	186.53	-15.98	326.41
	54.30	255.48	125.86	202.07	-17.26	353.61
	57.31	269.52	132.79	213.17	-18.18	373.04
	59.11	277.94	136.95	219.84	-18.73	384.70
	59.89	277.94	137.34	219.84	-17.56	384.70
	58.09	269.52	133.18	213.17	-17.01	373.04
	55.08	255.48	126.25	202.07	-16.09	353.61
	50.88	235.83	116.56	186.53	-14.81	326.41
	45.47	210.56	104.09	166.54	-13.16	291.44
	38.86	179.68	88.85	142.12	-11.14	248.69
	31.04	143.18	70.84	113.25	-8.76	198.18
	22.03	101.07	50.06	79.94	-6.01	139.89
	11.81	53.34	26.52	42.19	-2.90	73.83
	0.00	0.39	0.00	0.20	0.00	0.59
	-0.39	0.00	-0.20	0.00	-0.59	0.00
4.30	11.00	52.83	25.93	41.81	-3.92	73.12
	21.20	100.10	49.30	79.22	-6.90	138.54
	30.19	141.81	69.92	112.22	-9.53	196.26
	37.99	177.95	87.79	140.83	-11.82	246.29
	44.59	208.54	102.92	165.03	-13.75	288.62
	49.98	233.57	115.29	184.84	-15.32	323.26
	54.18	253.03	124.91	200.24	-16.55	350.20
	57.18	266.93	131.79	211.24	-17.43	369.44
	58.98	275.27	135.91	217.84	-17.96	380.98
	59.76	275.27	136.30	217.84	-16.78	380.98

	57.96	266.93	132.18	211.24	-16.26	369.44
	54.96	253.03	125.31	200.24	-15.38	350.20
	50.77	233.57	115.68	184.84	-14.15	323.26
	45.37	208.54	103.31	165.03	-12.57	288.62
	38.77	177.95	88.18	140.83	-10.64	246.29
	30.98	141.81	70.31	112.22	-8.36	196.26
	21.98	100.10	49.69	79.22	-5.73	138.54
	11.79	52.83	26.32	41.81	-2.75	73.12
	0.00	0.39	0.00	0.20	0.00	0.59
4.35	-0.39	0.00	-0.20	0.00	-0.59	0.00
	10.98	52.33	25.73	41.43	-3.77	72.42
	21.15	99.15	48.93	78.51	-6.63	137.22
	30.13	140.46	69.40	111.22	-9.14	194.40
	37.91	176.27	87.14	139.57	-11.33	243.95
	44.49	206.57	102.15	163.56	-13.17	285.88
	49.88	231.35	114.44	183.18	-14.68	320.18
	54.07	250.63	123.99	198.45	-15.86	346.86
	57.06	264.40	130.81	209.35	-16.70	365.92
	58.85	272.67	134.90	215.89	-17.20	377.36
	59.63	272.67	135.30	215.89	-16.03	377.36
	57.84	264.40	131.20	209.35	-15.52	365.92
	54.85	250.63	124.38	198.45	-14.68	346.86
	50.66	231.35	114.83	183.18	-13.51	320.18
	45.27	206.57	102.54	163.56	-12.00	285.88
	38.69	176.27	87.53	139.57	-10.15	243.95
	30.91	140.46	69.79	111.22	-7.97	194.40
	21.93	99.15	49.32	78.51	-5.45	137.22
	11.76	52.33	26.12	41.43	-2.60	72.42
	0.00	0.39	0.00	0.20	0.00	0.59
4.40	-0.39	0.00	-0.20	0.00	-0.59	0.00
	10.96	51.84	25.54	41.07	-3.63	71.74
	21.11	98.22	48.57	77.81	-6.36	135.93
	30.07	139.15	68.89	110.24	-8.76	192.57
	37.83	174.62	86.51	138.34	-10.85	241.66
	44.40	204.63	101.41	162.11	-12.61	283.19
	49.77	229.19	113.60	181.57	-14.06	317.17
	53.95	248.29	123.08	196.70	-15.18	343.60
	56.94	261.93	129.86	207.51	-15.98	362.48
	58.73	270.12	133.92	213.99	-16.46	373.81
	59.51	270.12	134.31	213.99	-15.29	373.81
	57.72	261.93	130.25	207.51	-14.81	362.48
	54.73	248.29	123.47	196.70	-14.00	343.60
	50.55	229.19	113.99	181.57	-12.88	317.17
	45.18	204.63	101.80	162.11	-11.44	283.19
	38.61	174.62	86.90	138.34	-9.68	241.66

	30.85	139.15	69.29	110.24	-7.59	192.57
	21.89	98.22	48.96	77.81	-5.19	135.93
	11.74	51.84	25.93	41.07	-2.46	71.74
	0.00	0.39	0.00	0.20	0.00	0.59
4.45	-0.39	0.00	-0.20	0.00	-0.59	0.00
	10.93	51.36	25.36	40.71	-3.49	71.08
	21.06	97.32	48.22	77.14	-6.10	134.67
	30.00	137.87	68.40	109.28	-8.39	190.78
	37.75	173.01	85.88	137.14	-10.38	239.42
	44.31	202.75	100.68	160.71	-12.06	280.56
	49.67	227.08	112.78	179.99	-13.44	314.23
	53.84	246.00	122.20	194.99	-14.51	340.42
	56.82	259.52	128.92	205.70	-15.28	359.12
	58.61	267.63	132.96	212.13	-15.74	370.35
	59.39	267.63	133.35	212.13	-14.56	370.35
	57.60	259.52	129.31	205.70	-14.11	359.12
	54.62	246.00	122.59	194.99	-13.34	340.42
	50.45	227.08	113.17	179.99	-12.27	314.23
	45.09	202.75	101.07	160.71	-10.89	280.56
	38.53	173.01	86.27	137.14	-9.21	239.42
	30.79	137.87	68.79	109.28	-7.22	190.78
	21.85	97.32	48.61	77.14	-4.92	134.67
	11.71	51.36	25.75	40.71	-2.32	71.08
	0.00	0.39	0.00	0.20	0.00	0.59
4.50	-0.39	0.00	-0.20	0.00	-0.59	0.00
	10.91	50.90	25.18	40.36	-3.36	70.43
	21.02	96.43	47.88	76.48	-5.84	133.44
	29.94	136.61	67.91	108.34	-8.03	189.04
	37.68	171.44	85.28	135.96	-9.92	237.23
	44.22	200.90	99.97	159.33	-11.53	278.00
	49.57	225.01	111.98	178.45	-12.84	311.36
	53.73	243.76	121.33	193.32	-13.86	337.30
	56.71	257.16	128.01	203.94	-14.59	355.84
	58.49	265.19	132.02	210.31	-15.03	366.96
	59.28	265.19	132.41	210.31	-13.86	366.96
	57.49	257.16	128.40	203.94	-13.42	355.84
	54.52	243.76	121.72	193.32	-12.69	337.30
	50.35	225.01	112.38	178.45	-11.67	311.36
	45.00	200.90	100.36	159.33	-10.36	278.00
	38.46	171.44	85.67	135.96	-8.75	237.23
	30.73	136.61	68.30	108.34	-6.85	189.04
	21.80	96.43	48.27	76.48	-4.67	133.44
	11.69	50.90	25.57	40.36	-2.19	70.43
	0.00	0.39	0.00	0.20	0.00	0.59

En la Tabla 27 se muestran las combinaciones de esfuerzos para los montantes en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 27. Combinación de esfuerzos de los montantes - 20 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)
0.50	0.98	7.33	3.24	5.64	-1.28	10.18
	-124.69	-16.91	-95.95	-55.18	-173.01	21.35
	-110.02	-14.96	-84.66	-48.70	-152.66	18.79
	-95.35	-13.00	-73.37	-42.23	-132.30	16.24
	-80.68	-11.04	-62.08	-35.75	-111.95	13.68
	-66.01	-9.08	-50.80	-29.28	-91.59	11.12
	-51.34	-7.12	-39.51	-22.80	-71.24	8.56
	-36.67	-5.16	-28.22	-16.32	-50.89	6.00
	-22.00	-3.20	-16.93	-9.85	-30.53	3.44
	-7.33	-1.24	-5.64	-3.37	-10.18	0.88
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.33	-0.71	-5.64	-3.11	-10.18	1.68
	-22.00	-2.67	-16.93	-9.58	-30.53	4.24
	-36.67	-4.63	-28.22	-16.06	-50.89	6.79
	-51.34	-6.59	-39.51	-22.53	-71.24	9.35
	-66.01	-8.55	-50.80	-29.01	-91.59	11.91
	-80.68	-10.51	-62.08	-35.49	-111.95	14.47
	-95.35	-12.47	-73.37	-41.96	-132.30	17.03
	-110.02	-14.43	-84.66	-48.44	-152.66	19.59
	-124.69	-16.38	-95.95	-54.92	-173.01	22.15
0.98	7.33	3.24	5.64	-1.28	10.18	
0.55	0.90	7.25	3.16	5.56	-1.36	10.07
	-123.31	-15.56	-94.57	-53.82	-171.15	22.69
	-108.80	-13.77	-83.44	-47.50	-151.02	19.97
	-94.29	-11.97	-72.32	-41.19	-130.88	17.25
	-79.79	-10.17	-61.19	-34.87	-110.74	14.53
	-65.28	-8.38	-50.07	-28.56	-90.61	11.81
	-50.77	-6.58	-38.94	-22.25	-70.47	9.09
	-36.27	-4.78	-27.81	-15.93	-50.34	6.37
	-21.76	-2.99	-16.69	-9.62	-30.20	3.64
	-7.25	-1.19	-5.56	-3.30	-10.07	0.92
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.25	-0.61	-5.56	-3.01	-10.07	1.80
	-21.76	-2.40	-16.69	-9.33	-30.20	4.52
	-36.27	-4.20	-27.81	-15.64	-50.34	7.24
	-50.77	-6.00	-38.94	-21.95	-70.47	9.96
	-65.28	-7.79	-50.07	-28.27	-90.61	12.68
	-79.79	-9.59	-61.19	-34.58	-110.74	15.40

		-94.29	-11.39	-72.32	-40.90	-130.88	18.12
		-108.80	-13.18	-83.44	-47.21	-151.02	20.84
		-123.31	-14.98	-94.57	-53.52	-171.15	23.57
		0.90	7.25	3.16	5.56	-1.36	10.07
	0.60	0.78	7.13	3.04	5.44	-1.48	9.90
		-121.25	-13.54	-92.52	-51.78	-168.38	24.71
		-106.99	-11.98	-81.63	-45.70	-148.57	21.74
		-92.72	-10.43	-70.75	-39.63	-128.76	18.78
		-78.46	-8.87	-59.86	-33.56	-108.95	15.82
		-64.19	-7.32	-48.98	-27.49	-89.14	12.85
		-49.93	-5.76	-38.09	-21.41	-69.33	9.89
		-35.66	-4.21	-27.21	-15.34	-49.52	6.93
		-21.40	-2.65	-16.33	-9.27	-29.71	3.97
		-7.13	-1.10	-5.44	-3.20	-9.90	1.00
		0.00	0.00	0.00	0.00	0.00	0.00
		-7.13	-0.46	-5.44	-2.88	-9.90	1.96
		-21.40	-2.01	-16.33	-8.95	-29.71	4.92
		-35.66	-3.57	-27.21	-15.02	-49.52	7.88
		-49.93	-5.12	-38.09	-21.09	-69.33	10.85
		-64.19	-6.68	-48.98	-27.17	-89.14	13.81
		-78.46	-8.23	-59.86	-33.24	-108.95	16.77
		-92.72	-9.79	-70.75	-39.31	-128.76	19.73
		-106.99	-11.34	-81.63	-45.39	-148.57	22.70
		-121.25	-12.90	-92.52	-51.46	-168.38	25.66
		0.78	7.13	3.04	5.44	-1.48	9.90
	0.65	0.75	7.11	3.01	5.41	-1.51	9.87
		-120.79	-13.09	-92.05	-51.32	-167.75	25.13
		-106.58	-11.59	-81.22	-45.30	-148.01	22.12
		-92.37	-10.09	-70.39	-39.29	-128.28	19.10
		-78.16	-8.59	-59.56	-33.27	-108.54	16.08
		-63.95	-7.09	-48.73	-27.25	-88.81	13.06
		-49.74	-5.59	-37.90	-21.23	-69.07	10.04
		-35.53	-4.09	-27.07	-15.22	-49.34	7.03
		-21.32	-2.59	-16.24	-9.20	-29.60	4.01
		-7.11	-1.09	-5.41	-3.18	-9.87	0.99
		0.00	0.00	0.00	0.00	0.00	0.00
		-7.11	-0.41	-5.41	-2.84	-9.87	2.03
		-21.32	-1.91	-16.24	-8.85	-29.60	5.04
		-35.53	-3.41	-27.07	-14.87	-49.34	8.06
		-49.74	-4.91	-37.90	-20.89	-69.07	11.08
		-63.95	-6.41	-48.73	-26.91	-88.81	14.10
		-78.16	-7.91	-59.56	-32.92	-108.54	17.11
		-92.37	-9.41	-70.39	-38.94	-128.28	20.13
		-106.58	-10.91	-81.22	-44.96	-148.01	23.15
		-120.79	-12.41	-92.05	-50.98	-167.75	26.17

	0.75	7.11	3.01	5.41	-1.51	9.87
0.70	0.69	7.05	2.95	5.36	-1.56	9.79
	-119.85	-12.19	-91.11	-50.40	-166.48	26.03
	-105.75	-10.80	-80.39	-44.49	-146.90	22.90
	-91.65	-9.41	-69.67	-38.58	-127.31	19.77
	-77.55	-8.02	-58.95	-32.68	-107.73	16.65
	-63.45	-6.63	-48.24	-26.77	-88.14	13.52
	-49.35	-5.24	-37.52	-20.86	-68.55	10.39
	-35.25	-3.85	-26.80	-14.95	-48.97	7.26
	-21.15	-2.46	-16.08	-9.05	-29.38	4.13
	-7.05	-1.07	-5.36	-3.14	-9.79	1.01
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.05	-0.32	-5.36	-2.77	-9.79	2.12
	-21.15	-1.71	-16.08	-8.68	-29.38	5.25
	-35.25	-3.10	-26.80	-14.58	-48.97	8.38
	-49.35	-4.49	-37.52	-20.49	-68.55	11.50
	-63.45	-5.88	-48.24	-26.40	-88.14	14.63
	-77.55	-7.27	-58.95	-32.31	-107.73	17.76
	-91.65	-8.66	-69.67	-38.21	-127.31	20.89
	-105.75	-10.05	-80.39	-44.12	-146.90	24.01
	-119.85	-11.44	-91.11	-50.03	-166.48	27.14
0.69	7.05	2.95	5.36	-1.56	9.79	
0.75	0.66	7.02	2.92	5.32	-1.60	9.75
	-119.26	-11.62	-90.52	-49.82	-165.69	26.58
	-105.23	-10.30	-79.87	-43.98	-146.19	23.38
	-91.20	-8.98	-69.22	-38.15	-126.70	20.19
	-77.17	-7.66	-58.57	-32.31	-107.21	16.99
	-63.14	-6.34	-47.92	-26.47	-87.72	13.79
	-49.11	-5.02	-37.27	-20.63	-68.22	10.59
	-35.08	-3.70	-26.62	-14.79	-48.73	7.40
	-21.05	-2.38	-15.97	-8.96	-29.24	4.20
	-7.02	-1.06	-5.32	-3.12	-9.75	1.00
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.02	-0.26	-5.32	-2.72	-9.75	2.19
	-21.05	-1.58	-15.97	-8.56	-29.24	5.39
	-35.08	-2.90	-26.62	-14.40	-48.73	8.59
	-49.11	-4.22	-37.27	-20.23	-68.22	11.79
	-63.14	-5.54	-47.92	-26.07	-87.72	14.98
	-77.17	-6.86	-58.57	-31.91	-107.21	18.18
	-91.20	-8.18	-69.22	-37.75	-126.70	21.38
	-105.23	-9.51	-79.87	-43.59	-146.19	24.58
	-119.26	-10.83	-90.52	-49.42	-165.69	27.77
0.66	7.02	2.92	5.32	-1.60	9.75	
0.80	0.67	7.02	2.93	5.33	-1.59	9.76
	-119.42	-11.81	-90.68	-50.00	-165.90	26.38

	-105.37	-10.47	-80.01	-44.14	-146.39	23.20
	-91.32	-9.13	-69.35	-38.28	-126.87	20.02
	-77.27	-7.79	-58.68	-32.43	-107.35	16.84
	-63.22	-6.45	-48.01	-26.57	-87.83	13.67
	-49.17	-5.11	-37.34	-20.71	-68.31	10.49
	-35.12	-3.77	-26.67	-14.85	-48.80	7.31
	-21.07	-2.43	-16.00	-9.00	-29.28	4.13
	-7.02	-1.09	-5.33	-3.14	-9.76	0.95
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.02	-0.25	-5.33	-2.72	-9.76	2.23
	-21.07	-1.59	-16.00	-8.57	-29.28	5.40
	-35.12	-2.92	-26.67	-14.43	-48.80	8.58
	-49.17	-4.26	-37.34	-20.29	-68.31	11.76
	-63.22	-5.60	-48.01	-26.14	-87.83	14.94
	-77.27	-6.94	-58.68	-32.00	-107.35	18.12
	-91.32	-8.28	-69.35	-37.86	-126.87	21.29
	-105.37	-9.62	-80.01	-43.71	-146.39	24.47
	-119.42	-10.96	-90.68	-49.57	-165.90	27.65
	0.67	7.02	2.93	5.33	-1.59	9.76
	0.64	6.99	2.89	5.30	-1.62	9.71
0.85	-118.83	-11.25	-90.10	-49.42	-165.11	26.93
	-104.85	-9.98	-79.50	-43.63	-145.69	23.68
	-90.87	-8.71	-68.90	-37.85	-126.26	20.43
	-76.89	-7.44	-58.30	-32.06	-106.84	17.18
	-62.91	-6.17	-47.70	-26.27	-87.41	13.94
	-48.93	-4.90	-37.10	-20.48	-67.99	10.69
	-34.95	-3.63	-26.50	-14.70	-48.56	7.44
	-20.97	-2.36	-15.90	-8.91	-29.14	4.20
	-6.99	-1.09	-5.30	-3.12	-9.71	0.95
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.99	-0.18	-5.30	-2.67	-9.71	2.30
	-20.97	-1.46	-15.90	-8.46	-29.14	5.55
	-34.95	-2.73	-26.50	-14.24	-48.56	8.79
	-48.93	-4.00	-37.10	-20.03	-67.99	12.04
	-62.91	-5.27	-47.70	-25.82	-87.41	15.29
	-76.89	-6.54	-58.30	-31.61	-106.84	18.54
	-90.87	-7.81	-68.90	-37.40	-126.26	21.78
	-104.85	-9.08	-79.50	-43.18	-145.69	25.03
	-118.83	-10.35	-90.10	-48.97	-165.11	28.28
	0.64	6.99	2.89	5.30	-1.62	9.71
	0.64	7.00	2.90	5.31	-1.62	9.72
0.90	-118.94	-11.38	-90.20	-49.54	-165.25	26.78
	-104.95	-10.10	-79.59	-43.74	-145.81	23.55
	-90.95	-8.81	-68.98	-37.94	-126.37	20.31
	-76.96	-7.53	-58.36	-32.14	-106.93	17.08

	-62.97	-6.25	-47.75	-26.34	-87.49	13.84
	-48.97	-4.97	-37.14	-20.54	-68.04	10.61
	-34.98	-3.68	-26.53	-14.74	-48.60	7.37
	-20.99	-2.40	-15.92	-8.94	-29.16	4.14
	-7.00	-1.12	-5.31	-3.14	-9.72	0.90
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.00	-0.16	-5.31	-2.66	-9.72	2.33
	-20.99	-1.45	-15.92	-8.46	-29.16	5.57
	-34.98	-2.73	-26.53	-14.26	-48.60	8.80
	-48.97	-4.01	-37.14	-20.06	-68.04	12.04
	-62.97	-5.29	-47.75	-25.86	-87.49	15.27
	-76.96	-6.58	-58.36	-31.66	-106.93	18.51
	-90.95	-7.86	-68.98	-37.46	-126.37	21.74
	-104.95	-9.14	-79.59	-43.26	-145.81	24.98
	-118.94	-10.42	-90.20	-49.06	-165.25	28.21
	0.64	7.00	2.90	5.31	-1.62	9.72
	0.65	7.01	2.91	5.32	-1.61	9.73
	-119.11	-11.57	-90.37	-49.72	-165.48	26.57
	-105.09	-10.27	-79.74	-43.90	-146.01	23.36
	-91.08	-8.97	-69.10	-38.08	-126.54	20.14
	-77.07	-7.67	-58.47	-32.26	-107.07	16.93
	-63.06	-6.36	-47.84	-26.44	-87.61	13.71
	-49.04	-5.06	-37.21	-20.62	-68.14	10.50
	-35.03	-3.76	-26.58	-14.80	-48.67	7.28
	-21.02	-2.46	-15.95	-8.98	-29.20	4.07
	-7.01	-1.15	-5.32	-3.16	-9.73	0.85
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.01	-0.15	-5.32	-2.66	-9.73	2.36
	-21.02	-1.45	-15.95	-8.48	-29.20	5.58
	-35.03	-2.75	-26.58	-14.30	-48.67	8.79
	-49.04	-4.05	-37.21	-20.12	-68.14	12.01
	-63.06	-5.36	-47.84	-25.94	-87.61	15.22
	-77.07	-6.66	-58.47	-31.76	-107.07	18.44
	-91.08	-7.96	-69.10	-37.58	-126.54	21.65
	-105.09	-9.26	-79.74	-43.40	-146.01	24.87
	-119.11	-10.57	-90.37	-49.22	-165.48	28.08
	0.65	7.01	2.91	5.32	-1.61	9.73
	0.62	6.98	2.88	5.29	-1.64	9.69
	-118.59	-11.08	-89.85	-49.22	-164.78	27.05
	-104.64	-9.84	-79.28	-43.46	-145.40	23.78
	-90.69	-8.60	-68.71	-37.70	-126.01	20.50
	-76.73	-7.36	-58.14	-31.94	-106.62	17.22
	-62.78	-6.12	-47.57	-26.18	-87.24	13.95
	-48.83	-4.88	-37.00	-20.42	-67.85	10.67
	-34.88	-3.63	-26.43	-14.66	-48.47	7.40

	-20.93	-2.39	-15.86	-8.90	-29.08	4.12
	-6.98	-1.15	-5.29	-3.14	-9.69	0.84
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.98	-0.09	-5.29	-2.61	-9.69	2.43
	-20.93	-1.33	-15.86	-8.37	-29.08	5.71
	-34.88	-2.57	-26.43	-14.13	-48.47	8.99
	-48.83	-3.82	-37.00	-19.89	-67.85	12.26
	-62.78	-5.06	-47.57	-25.65	-87.24	15.54
	-76.73	-6.30	-58.14	-31.41	-106.62	18.81
	-90.69	-7.54	-68.71	-37.17	-126.01	22.09
	-104.64	-8.78	-79.28	-42.93	-145.40	25.37
	-118.59	-10.02	-89.85	-48.69	-164.78	28.64
	0.62	6.98	2.88	5.29	-1.64	9.69
	0.63	6.99	2.89	5.30	-1.63	9.71
1.05	-118.76	-11.28	-90.02	-49.40	-165.01	26.84
	-104.79	-10.02	-79.43	-43.62	-145.60	23.58
	-90.82	-8.76	-68.84	-37.84	-126.19	20.33
	-76.85	-7.50	-58.25	-32.06	-106.77	17.07
	-62.87	-6.23	-47.66	-26.29	-87.36	13.82
	-48.90	-4.97	-37.07	-20.51	-67.95	10.56
	-34.93	-3.71	-26.48	-14.73	-48.53	7.30
	-20.96	-2.45	-15.89	-8.95	-29.12	4.05
	-6.99	-1.19	-5.30	-3.17	-9.71	0.79
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.99	-0.07	-5.30	-2.61	-9.71	2.46
	-20.96	-1.34	-15.89	-8.39	-29.12	5.72
	-34.93	-2.60	-26.48	-14.17	-48.53	8.97
	-48.90	-3.86	-37.07	-19.95	-67.95	12.23
	-62.87	-5.12	-47.66	-25.73	-87.36	15.49
	-76.85	-6.38	-58.25	-31.51	-106.77	18.74
	-90.82	-7.65	-68.84	-37.29	-126.19	22.00
	-104.79	-8.91	-79.43	-43.07	-145.60	25.25
	-118.76	-10.17	-90.02	-48.85	-165.01	28.51
	0.63	6.99	2.89	5.30	-1.63	9.71
1.10	0.63	6.99	2.89	5.30	-1.62	9.71
	-118.81	-11.36	-90.07	-49.47	-165.08	26.75
	-104.83	-10.09	-79.48	-43.68	-145.66	23.50
	-90.86	-8.82	-68.88	-37.90	-126.24	20.25
	-76.88	-7.55	-58.28	-32.11	-106.82	17.00
	-62.90	-6.29	-47.69	-26.32	-87.40	13.75
	-48.92	-5.02	-37.09	-20.54	-67.97	10.50
	-34.94	-3.75	-26.49	-14.75	-48.55	7.25
	-20.97	-2.48	-15.90	-8.97	-29.13	4.00
	-6.99	-1.22	-5.30	-3.18	-9.71	0.75
	0.00	0.00	0.00	0.00	0.00	0.00

	-6.99	-0.05	-5.30	-2.60	-9.71	2.50
	-20.97	-1.32	-15.90	-8.39	-29.13	5.75
	-34.94	-2.59	-26.49	-14.17	-48.55	9.00
	-48.92	-3.85	-37.09	-19.96	-67.97	12.25
	-62.90	-5.12	-47.69	-25.74	-87.40	15.50
	-76.88	-6.39	-58.28	-31.53	-106.82	18.75
	-90.86	-7.66	-68.88	-37.31	-126.24	22.00
	-104.83	-8.92	-79.48	-43.10	-145.66	25.25
	-118.81	-10.19	-90.07	-48.88	-165.08	28.50
	0.63	6.99	2.89	5.30	-1.62	9.71
1.15	0.61	6.96	2.87	5.27	-1.65	9.67
	-118.36	-10.94	-89.62	-49.03	-164.47	27.16
	-104.44	-9.72	-79.08	-43.30	-145.12	23.86
	-90.51	-8.51	-68.54	-37.57	-125.77	20.55
	-76.59	-7.29	-57.99	-31.83	-106.42	17.25
	-62.66	-6.08	-47.45	-26.10	-87.07	13.95
	-48.74	-4.86	-36.90	-20.37	-67.72	10.65
	-34.81	-3.65	-26.36	-14.64	-48.37	7.34
	-20.89	-2.43	-15.82	-8.90	-29.02	4.04
	-6.96	-1.22	-5.27	-3.17	-9.67	0.74
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.96	0.00	-5.27	-2.56	-9.67	2.57
	-20.89	-1.21	-15.82	-8.29	-29.02	5.87
	-34.81	-2.43	-26.36	-14.03	-48.37	9.17
	-48.74	-3.64	-36.90	-19.76	-67.72	12.47
	-62.66	-4.86	-47.45	-25.49	-87.07	15.78
	-76.59	-6.07	-57.99	-31.22	-106.42	19.08
	-90.51	-7.29	-68.54	-36.96	-125.77	22.38
	-104.44	-8.50	-79.08	-42.69	-145.12	25.69
	-118.36	-9.72	-89.62	-48.42	-164.47	28.99
	0.61	6.96	2.87	5.27	-1.65	9.67
1.20	0.62	6.97	2.88	5.28	-1.64	9.69
	-118.54	-11.14	-89.80	-49.22	-164.71	26.94
	-104.59	-9.90	-79.24	-43.47	-145.34	23.66
	-90.65	-8.67	-68.67	-37.71	-125.96	20.38
	-76.70	-7.43	-58.11	-31.96	-106.58	17.10
	-62.76	-6.20	-47.54	-26.21	-87.20	13.81
	-48.81	-4.96	-36.98	-20.45	-67.82	10.53
	-34.86	-3.73	-26.41	-14.70	-48.45	7.25
	-20.92	-2.49	-15.85	-8.95	-29.07	3.97
	-6.97	-1.25	-5.28	-3.19	-9.69	0.69
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.97	0.02	-5.28	-2.56	-9.69	2.59
	-20.92	-1.22	-15.85	-8.31	-29.07	5.88
	-34.86	-2.45	-26.41	-14.07	-48.45	9.16

	-48.81	-3.69	-36.98	-19.82	-67.82	12.44
	-62.76	-4.92	-47.54	-25.57	-87.20	15.72
	-76.70	-6.16	-58.11	-31.33	-106.58	19.00
	-90.65	-7.40	-68.67	-37.08	-125.96	22.29
	-104.59	-8.63	-79.24	-42.83	-145.34	25.57
	-118.54	-9.87	-89.80	-48.59	-164.71	28.85
	0.62	6.97	2.88	5.28	-1.64	9.69
1.25	0.63	6.98	2.89	5.29	-1.63	9.70
	-118.72	-11.35	-89.98	-49.41	-164.96	26.72
	-104.75	-10.09	-79.40	-43.64	-145.55	23.46
	-90.79	-8.83	-68.81	-37.87	-126.14	20.20
	-76.82	-7.58	-58.22	-32.09	-106.74	16.94
	-62.85	-6.32	-47.64	-26.32	-87.33	13.68
	-48.88	-5.06	-37.05	-20.54	-67.92	10.42
	-34.92	-3.80	-26.47	-14.77	-48.52	7.16
	-20.95	-2.55	-15.88	-8.99	-29.11	3.90
	-6.98	-1.29	-5.29	-3.22	-9.70	0.64
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.98	0.03	-5.29	-2.56	-9.70	2.62
	-20.95	-1.22	-15.88	-8.33	-29.11	5.88
	-34.92	-2.48	-26.47	-14.10	-48.52	9.15
	-48.88	-3.74	-37.05	-19.88	-67.92	12.41
	-62.85	-4.99	-47.64	-25.65	-87.33	15.67
	-76.82	-6.25	-58.22	-31.43	-106.74	18.93
	-90.79	-7.51	-68.81	-37.20	-126.14	22.19
	-104.75	-8.76	-79.40	-42.98	-145.55	25.45
	-118.72	-10.02	-89.98	-48.75	-164.96	28.71
	0.63	6.98	2.89	5.29	-1.63	9.70
1.30	0.64	6.99	2.90	5.30	-1.62	9.72
	-118.90	-11.55	-90.16	-49.61	-165.20	26.50
	-104.91	-10.28	-79.56	-43.81	-145.77	23.26
	-90.92	-9.00	-68.95	-38.02	-126.33	20.02
	-76.94	-7.72	-58.34	-32.22	-106.90	16.78
	-62.95	-6.44	-47.73	-26.43	-87.46	13.54
	-48.96	-5.16	-37.13	-20.63	-68.02	10.30
	-34.97	-3.88	-26.52	-14.83	-48.59	7.07
	-20.98	-2.61	-15.91	-9.04	-29.15	3.83
	-6.99	-1.33	-5.30	-3.24	-9.72	0.59
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.99	0.05	-5.30	-2.55	-9.72	2.65
	-20.98	-1.23	-15.91	-8.35	-29.15	5.89
	-34.97	-2.51	-26.52	-14.14	-48.59	9.13
	-48.96	-3.78	-37.13	-19.94	-68.02	12.37
	-62.95	-5.06	-47.73	-25.74	-87.46	15.61
	-76.94	-6.34	-58.34	-31.53	-106.90	18.85

	-90.92	-7.62	-68.95	-37.33	-126.33	22.09
	-104.91	-8.90	-79.56	-43.12	-145.77	25.33
	-118.90	-10.18	-90.16	-48.92	-165.20	28.57
	0.64	6.99	2.90	5.30	-1.62	9.72
1.35	0.65	7.00	2.91	5.31	-1.61	9.73
	-119.08	-11.76	-90.35	-49.80	-165.45	26.28
	-105.07	-10.46	-79.72	-43.99	-145.98	23.06
	-91.06	-9.16	-69.09	-38.17	-126.52	19.84
	-77.05	-7.86	-58.46	-32.35	-107.05	16.63
	-63.04	-6.56	-47.83	-26.54	-87.59	13.41
	-49.03	-5.26	-37.20	-20.72	-68.13	10.19
	-35.02	-3.96	-26.57	-14.90	-48.66	6.97
	-21.01	-2.67	-15.94	-9.08	-29.20	3.75
	-7.00	-1.37	-5.31	-3.27	-9.73	0.54
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.00	0.07	-5.31	-2.55	-9.73	2.68
	-21.01	-1.23	-15.94	-8.37	-29.20	5.90
	-35.02	-2.53	-26.57	-14.19	-48.66	9.12
	-49.03	-3.83	-37.20	-20.00	-68.13	12.34
	-63.04	-5.13	-47.83	-25.82	-87.59	15.55
	-77.05	-6.43	-58.46	-31.64	-107.05	18.77
	-91.06	-7.73	-69.09	-37.45	-126.52	21.99
	-105.07	-9.03	-79.72	-43.27	-145.98	25.21
	-119.08	-10.33	-90.35	-49.09	-165.45	28.43
	0.65	7.00	2.91	5.31	-1.61	9.73
1.40	0.66	7.02	2.92	5.33	-1.60	9.75
	-119.27	-11.97	-90.53	-50.00	-165.70	26.06
	-105.24	-10.65	-79.88	-44.16	-146.20	22.86
	-91.20	-9.33	-69.23	-38.32	-126.71	19.66
	-77.17	-8.01	-58.58	-32.49	-107.22	16.47
	-63.14	-6.69	-47.93	-26.65	-87.72	13.27
	-49.11	-5.37	-37.28	-20.81	-68.23	10.07
	-35.08	-4.05	-26.63	-14.97	-48.73	6.88
	-21.05	-2.72	-15.98	-9.13	-29.24	3.68
	-7.02	-1.40	-5.33	-3.29	-9.75	0.49
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.02	0.08	-5.33	-2.55	-9.75	2.71
	-21.05	-1.24	-15.98	-8.39	-29.24	5.91
	-35.08	-2.56	-26.63	-14.23	-48.73	9.10
	-49.11	-3.88	-37.28	-20.07	-68.23	12.30
	-63.14	-5.20	-47.93	-25.90	-87.72	15.50
	-77.17	-6.53	-58.58	-31.74	-107.22	18.69
	-91.20	-7.85	-69.23	-37.58	-126.71	21.89
	-105.24	-9.17	-79.88	-43.42	-146.20	25.08
	-119.27	-10.49	-90.53	-49.26	-165.70	28.28

	0.66	7.02	2.92	5.33	-1.60	9.75
1.45	0.67	7.03	2.93	5.34	-1.59	9.76
	-119.45	-12.19	-90.71	-50.20	-165.95	25.83
	-105.40	-10.84	-80.04	-44.34	-146.42	22.66
	-91.35	-9.50	-69.37	-38.48	-126.90	19.48
	-77.29	-8.16	-58.70	-32.62	-107.38	16.31
	-63.24	-6.81	-48.03	-26.76	-87.85	13.13
	-49.19	-5.47	-37.35	-20.90	-68.33	9.96
	-35.13	-4.13	-26.68	-15.04	-48.81	6.78
	-21.08	-2.78	-16.01	-9.18	-29.28	3.61
	-7.03	-1.44	-5.34	-3.31	-9.76	0.43
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.03	0.10	-5.34	-2.55	-9.76	2.74
	-21.08	-1.25	-16.01	-8.41	-29.28	5.91
	-35.13	-2.59	-26.68	-14.27	-48.81	9.09
	-49.19	-3.93	-37.35	-20.13	-68.33	12.26
	-63.24	-5.28	-48.03	-25.99	-87.85	15.44
	-77.29	-6.62	-58.70	-31.85	-107.38	18.61
	-91.35	-7.96	-69.37	-37.71	-126.90	21.79
	-105.40	-9.31	-80.04	-43.57	-146.42	24.96
	-119.45	-10.65	-90.71	-49.43	-165.95	28.14
0.67	7.03	2.93	5.34	-1.59	9.76	
1.50	0.68	7.04	2.94	5.35	-1.58	9.78
	-119.64	-12.40	-90.90	-50.40	-166.20	25.60
	-105.56	-11.03	-80.21	-44.52	-146.65	22.45
	-91.49	-9.67	-69.51	-38.64	-127.09	19.30
	-77.41	-8.30	-58.82	-32.75	-107.54	16.15
	-63.34	-6.94	-48.12	-26.87	-87.99	12.99
	-49.26	-5.57	-37.43	-20.99	-68.44	9.84
	-35.19	-4.21	-26.74	-15.10	-48.88	6.69
	-21.11	-2.84	-16.04	-9.22	-29.33	3.54
	-7.04	-1.48	-5.35	-3.34	-9.78	0.38
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.04	0.11	-5.35	-2.54	-9.78	2.77
	-21.11	-1.25	-16.04	-8.43	-29.33	5.92
	-35.19	-2.62	-26.74	-14.31	-48.88	9.07
	-49.26	-3.98	-37.43	-20.19	-68.44	12.23
	-63.34	-5.35	-48.12	-26.07	-87.99	15.38
	-77.41	-6.71	-58.82	-31.96	-107.54	18.53
	-91.49	-8.08	-69.51	-37.84	-127.09	21.68
	-105.56	-9.44	-80.21	-43.72	-146.65	24.84
	-119.64	-10.81	-90.90	-49.61	-166.20	27.99
0.68	7.04	2.94	5.35	-1.58	9.78	
1.55	0.69	7.05	2.95	5.36	-1.57	9.79
	-119.83	-12.61	-91.09	-50.60	-166.45	25.38

	-105.73	-11.23	-80.37	-44.70	-146.87	22.25
	-91.63	-9.84	-69.66	-38.79	-127.29	19.11
	-77.54	-8.45	-58.94	-32.89	-107.71	15.98
	-63.44	-7.06	-48.22	-26.98	-88.12	12.85
	-49.34	-5.68	-37.51	-21.08	-68.54	9.72
	-35.24	-4.29	-26.79	-15.17	-48.96	6.59
	-21.15	-2.90	-16.07	-9.27	-29.37	3.46
	-7.05	-1.52	-5.36	-3.36	-9.79	0.33
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.05	0.13	-5.36	-2.54	-9.79	2.80
	-21.15	-1.26	-16.07	-8.45	-29.37	5.93
	-35.24	-2.65	-26.79	-14.35	-48.96	9.06
	-49.34	-4.03	-37.51	-20.26	-68.54	12.19
	-63.44	-5.42	-48.22	-26.16	-88.12	15.32
	-77.54	-6.81	-58.94	-32.07	-107.71	18.45
	-91.63	-8.20	-69.66	-37.97	-127.29	21.58
	-105.73	-9.58	-80.37	-43.88	-146.87	24.71
	-119.83	-10.97	-91.09	-49.78	-166.45	27.84
	0.69	7.05	2.95	5.36	-1.57	9.79
	0.70	7.06	2.96	5.37	-1.55	9.81
1.60	-120.02	-12.83	-91.28	-50.80	-166.71	25.15
	-105.90	-11.42	-80.54	-44.88	-147.10	22.04
	-91.78	-10.01	-69.80	-38.95	-127.48	18.93
	-77.66	-8.60	-59.06	-33.02	-107.87	15.82
	-63.54	-7.19	-48.32	-27.10	-88.26	12.71
	-49.42	-5.78	-37.59	-21.17	-68.64	9.61
	-35.30	-4.37	-26.85	-15.24	-49.03	6.50
	-21.18	-2.96	-16.11	-9.31	-29.42	3.39
	-7.06	-1.55	-5.37	-3.39	-9.81	0.28
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.06	0.14	-5.37	-2.54	-9.81	2.83
	-21.18	-1.27	-16.11	-8.47	-29.42	5.93
	-35.30	-2.68	-26.85	-14.39	-49.03	9.04
	-49.42	-4.09	-37.59	-20.32	-68.64	12.15
	-63.54	-5.49	-48.32	-26.25	-88.26	15.26
	-77.66	-6.90	-59.06	-32.18	-107.87	18.37
	-91.78	-8.31	-69.80	-38.10	-127.48	21.47
	-105.90	-9.72	-80.54	-44.03	-147.10	24.58
	-120.02	-11.13	-91.28	-49.96	-166.71	27.69
	0.70	7.06	2.96	5.37	-1.55	9.81
	0.72	7.07	2.97	5.38	-1.54	9.82
1.65	-120.21	-13.05	-91.47	-51.01	-166.97	24.92
	-106.07	-11.61	-80.71	-45.06	-147.32	21.83
	-91.92	-10.18	-69.95	-39.11	-127.68	18.75
	-77.78	-8.75	-59.19	-33.16	-108.04	15.66

	-63.64	-7.32	-48.42	-27.21	-88.39	12.57
	-49.50	-5.89	-37.66	-21.26	-68.75	9.49
	-35.36	-4.45	-26.90	-15.31	-49.11	6.40
	-21.21	-3.02	-16.14	-9.36	-29.46	3.32
	-7.07	-1.59	-5.38	-3.41	-9.82	0.23
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.07	0.16	-5.38	-2.54	-9.82	2.85
	-21.21	-1.27	-16.14	-8.49	-29.46	5.94
	-35.36	-2.71	-26.90	-14.44	-49.11	9.03
	-49.50	-4.14	-37.66	-20.39	-68.75	12.11
	-63.64	-5.57	-48.42	-26.34	-88.39	15.20
	-77.78	-7.00	-59.19	-32.29	-108.04	18.28
	-91.92	-8.43	-69.95	-38.23	-127.68	21.37
	-106.07	-9.86	-80.71	-44.18	-147.32	24.45
	-120.21	-11.30	-91.47	-50.13	-166.97	27.54
	0.72	7.07	2.97	5.38	-1.54	9.82
	0.73	7.08	2.99	5.39	-1.53	9.84
	-120.40	-13.26	-91.66	-51.21	-167.22	24.69
	-106.23	-11.81	-80.88	-45.24	-147.55	21.62
	-92.07	-10.35	-70.09	-39.27	-127.88	18.56
	-77.91	-8.90	-59.31	-33.30	-108.20	15.50
	-63.74	-7.45	-48.53	-27.32	-88.53	12.43
	-49.58	-5.99	-37.74	-21.35	-68.86	9.37
	-35.41	-4.54	-26.96	-15.38	-49.18	6.31
	-21.25	-3.08	-16.18	-9.41	-29.51	3.24
	-7.08	-1.63	-5.39	-3.44	-9.84	0.18
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.08	0.17	-5.39	-2.54	-9.84	2.88
	-21.25	-1.28	-16.18	-8.51	-29.51	5.95
	-35.41	-2.74	-26.96	-14.48	-49.18	9.01
	-49.58	-4.19	-37.74	-20.45	-68.86	12.07
	-63.74	-5.64	-48.53	-26.42	-88.53	15.14
	-77.91	-7.10	-59.31	-32.40	-108.20	18.20
	-92.07	-8.55	-70.09	-38.37	-127.88	21.26
	-106.23	-10.01	-80.88	-44.34	-147.55	24.33
	-120.40	-11.46	-91.66	-50.31	-167.22	27.39
	0.73	7.08	2.99	5.39	-1.53	9.84
	0.74	7.09	3.00	5.40	-1.52	9.85
	-120.59	-13.48	-91.85	-51.42	-167.48	24.45
	-106.40	-12.01	-81.05	-45.42	-147.78	21.41
	-92.22	-10.53	-70.24	-39.43	-128.08	18.37
	-78.03	-9.05	-59.43	-33.43	-108.37	15.33
	-63.84	-7.57	-48.63	-27.44	-88.67	12.29
	-49.66	-6.10	-37.82	-21.45	-68.96	9.25
	-35.47	-4.62	-27.02	-15.45	-49.26	6.21

	-21.28	-3.14	-16.21	-9.46	-29.56	3.17
	-7.09	-1.67	-5.40	-3.46	-9.85	0.13
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.09	0.19	-5.40	-2.53	-9.85	2.91
	-21.28	-1.29	-16.21	-8.53	-29.56	5.95
	-35.47	-2.77	-27.02	-14.52	-49.26	8.99
	-49.66	-4.24	-37.82	-20.52	-68.96	12.03
	-63.84	-5.72	-48.63	-26.51	-88.67	15.07
	-78.03	-7.20	-59.43	-32.51	-108.37	18.11
	-92.22	-8.67	-70.24	-38.50	-128.08	21.15
	-106.40	-10.15	-81.05	-44.50	-147.78	24.19
	-120.59	-11.63	-91.85	-50.49	-167.48	27.24
	0.74	7.09	3.00	5.40	-1.52	9.85
1.80	0.75	7.10	3.01	5.41	-1.51	9.87
	-120.78	-13.70	-92.05	-51.63	-167.75	24.22
	-106.57	-12.20	-81.22	-45.61	-148.01	21.20
	-92.36	-10.70	-70.39	-39.59	-128.28	18.18
	-78.15	-9.20	-59.56	-33.57	-108.54	15.17
	-63.94	-7.70	-48.73	-27.56	-88.81	12.15
	-49.73	-6.20	-37.90	-21.54	-69.07	9.13
	-35.52	-4.70	-27.07	-15.52	-49.34	6.11
	-21.31	-3.20	-16.24	-9.50	-29.60	3.10
	-7.10	-1.70	-5.41	-3.49	-9.87	0.08
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.10	0.20	-5.41	-2.53	-9.87	2.94
	-21.31	-1.30	-16.24	-8.55	-29.60	5.96
	-35.52	-2.80	-27.07	-14.57	-49.34	8.98
	-49.73	-4.30	-37.90	-20.58	-69.07	11.99
	-63.94	-5.80	-48.73	-26.60	-88.81	15.01
	-78.15	-7.30	-59.56	-32.62	-108.54	18.03
	-92.36	-8.79	-70.39	-38.64	-128.28	21.05
	-106.57	-10.29	-81.22	-44.65	-148.01	24.06
	-120.78	-11.79	-92.05	-50.67	-167.75	27.08
	0.75	7.10	3.01	5.41	-1.51	9.87
1.85	0.76	7.12	3.02	5.43	-1.50	9.88
	-120.98	-13.92	-92.24	-51.83	-168.01	23.99
	-106.75	-12.40	-81.39	-45.79	-148.24	20.99
	-92.51	-10.88	-70.54	-39.75	-128.48	18.00
	-78.28	-9.36	-59.69	-33.71	-108.71	15.00
	-64.05	-7.83	-48.83	-27.67	-88.95	12.01
	-49.81	-6.31	-37.98	-21.63	-69.18	9.01
	-35.58	-4.79	-27.13	-15.59	-49.41	6.02
	-21.35	-3.26	-16.28	-9.55	-29.65	3.02
	-7.12	-1.74	-5.43	-3.51	-9.88	0.03
	0.00	0.00	0.00	0.00	0.00	0.00

	-7.12	0.22	-5.43	-2.53	-9.88	2.97
	-21.35	-1.30	-16.28	-8.57	-29.65	5.96
	-35.58	-2.83	-27.13	-14.61	-49.41	8.96
	-49.81	-4.35	-37.98	-20.65	-69.18	11.95
	-64.05	-5.87	-48.83	-26.69	-88.95	14.95
	-78.28	-7.39	-59.69	-32.73	-108.71	17.94
	-92.51	-8.92	-70.54	-38.77	-128.48	20.94
	-106.75	-10.44	-81.39	-44.81	-148.24	23.93
	-120.98	-11.96	-92.24	-50.85	-168.01	26.93
	0.76	7.12	3.02	5.43	-1.50	9.88
1.90	0.77	7.13	3.03	5.44	-1.49	9.90
	-121.17	-14.15	-92.44	-52.04	-168.27	23.75
	-106.92	-12.60	-81.56	-45.98	-148.47	20.78
	-92.66	-11.05	-70.69	-39.91	-128.68	17.81
	-78.41	-9.51	-59.81	-33.85	-108.88	14.84
	-64.15	-7.96	-48.94	-27.79	-89.08	11.86
	-49.90	-6.42	-38.06	-21.72	-69.29	8.89
	-35.64	-4.87	-27.19	-15.66	-49.49	5.92
	-21.38	-3.33	-16.31	-9.60	-29.69	2.95
	-7.13	-1.78	-5.44	-3.54	-9.90	-0.02
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.13	0.23	-5.44	-2.53	-9.90	3.00
	-21.38	-1.31	-16.31	-8.59	-29.69	5.97
	-35.64	-2.86	-27.19	-14.65	-49.49	8.94
	-49.90	-4.40	-38.06	-20.72	-69.29	11.91
	-64.15	-5.95	-48.94	-26.78	-89.08	14.88
	-78.41	-7.49	-59.81	-32.84	-108.88	17.86
	-92.66	-9.04	-70.69	-38.91	-128.68	20.83
	-106.92	-10.59	-81.56	-44.97	-148.47	23.80
	-121.17	-12.13	-92.44	-51.03	-168.27	26.77
	0.77	7.13	3.03	5.44	-1.49	9.90
1.95	0.78	7.14	3.04	5.45	-1.47	9.91
	-121.37	-14.37	-92.63	-52.25	-168.54	23.52
	-107.09	-12.80	-81.73	-46.16	-148.71	20.57
	-92.81	-11.23	-70.84	-40.08	-128.88	17.62
	-78.53	-9.66	-59.94	-33.99	-109.05	14.67
	-64.25	-8.09	-49.04	-27.91	-89.22	11.72
	-49.98	-6.52	-38.14	-21.82	-69.40	8.77
	-35.70	-4.96	-27.24	-15.73	-49.57	5.82
	-21.42	-3.39	-16.35	-9.65	-29.74	2.87
	-7.14	-1.82	-5.45	-3.56	-9.91	-0.08
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.14	0.25	-5.45	-2.53	-9.91	3.02
	-21.42	-1.32	-16.35	-8.61	-29.74	5.97
	-35.70	-2.89	-27.24	-14.70	-49.57	8.92

	-49.98	-4.46	-38.14	-20.79	-69.40	11.87
	-64.25	-6.03	-49.04	-26.87	-89.22	14.82
	-78.53	-7.59	-59.94	-32.96	-109.05	17.77
	-92.81	-9.16	-70.84	-39.04	-128.88	20.72
	-107.09	-10.73	-81.73	-45.13	-148.71	23.67
	-121.37	-12.30	-92.63	-51.22	-168.54	26.62
	0.78	7.14	3.04	5.45	-1.47	9.91
2.00	0.80	7.15	3.05	5.46	-1.46	9.93
	-121.57	-14.59	-92.83	-52.46	-168.80	23.28
	-107.27	-13.00	-81.91	-46.35	-148.94	20.35
	-92.96	-11.41	-70.99	-40.24	-129.08	17.43
	-78.66	-9.82	-60.07	-34.13	-109.22	14.50
	-64.36	-8.22	-49.14	-28.02	-89.37	11.58
	-50.06	-6.63	-38.22	-21.91	-69.51	8.65
	-35.76	-5.04	-27.30	-15.80	-49.65	5.72
	-21.45	-3.45	-16.38	-9.69	-29.79	2.80
	-7.15	-1.86	-5.46	-3.58	-9.93	-0.13
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.15	0.26	-5.46	-2.52	-9.93	3.05
	-21.45	-1.33	-16.38	-8.63	-29.79	5.98
	-35.76	-2.92	-27.30	-14.74	-49.65	8.90
	-50.06	-4.51	-38.22	-20.85	-69.51	11.83
	-64.36	-6.10	-49.14	-26.96	-89.37	14.76
	-78.66	-7.70	-60.07	-33.07	-109.22	17.68
	-92.96	-9.29	-70.99	-39.18	-129.08	20.61
	-107.27	-10.88	-81.91	-45.29	-148.94	23.53
	-121.57	-12.47	-92.83	-51.40	-168.80	26.46
	0.80	7.15	3.05	5.46	-1.46	9.93
2.05	0.81	7.16	3.07	5.47	-1.45	9.95
	-121.76	-14.81	-93.03	-52.67	-169.07	23.04
	-107.44	-13.20	-82.08	-46.54	-149.18	20.14
	-93.11	-11.58	-71.14	-40.41	-129.29	17.24
	-78.79	-9.97	-60.19	-34.27	-109.40	14.33
	-64.46	-8.35	-49.25	-28.14	-89.51	11.43
	-50.14	-6.74	-38.30	-22.01	-69.62	8.53
	-35.81	-5.12	-27.36	-15.87	-49.73	5.63
	-21.49	-3.51	-16.42	-9.74	-29.84	2.72
	-7.16	-1.89	-5.47	-3.61	-9.95	-0.18
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.16	0.28	-5.47	-2.52	-9.95	3.08
	-21.49	-1.34	-16.42	-8.66	-29.84	5.98
	-35.81	-2.95	-27.36	-14.79	-49.73	8.89
	-50.14	-4.57	-38.30	-20.92	-69.62	11.79
	-64.46	-6.18	-49.25	-27.05	-89.51	14.69
	-78.79	-7.80	-60.19	-33.19	-109.40	17.59

		-93.11	-9.41	-71.14	-39.32	-129.29	20.50
		-107.44	-11.03	-82.08	-45.45	-149.18	23.40
		-121.76	-12.64	-93.03	-51.58	-169.07	26.30
		0.81	7.16	3.07	5.47	-1.45	9.95
	2.10	0.82	7.17	3.08	5.48	-1.44	9.96
		-121.96	-15.04	-93.22	-52.88	-169.34	22.80
		-107.61	-13.40	-82.26	-46.73	-149.41	19.92
		-93.27	-11.76	-71.29	-40.57	-129.49	17.04
		-78.92	-10.12	-60.32	-34.41	-109.57	14.17
		-64.57	-8.49	-49.35	-28.26	-89.65	11.29
		-50.22	-6.85	-38.39	-22.10	-69.73	8.41
		-35.87	-5.21	-27.42	-15.95	-49.80	5.53
		-21.52	-3.57	-16.45	-9.79	-29.88	2.65
		-7.17	-1.93	-5.48	-3.63	-9.96	-0.23
		0.00	0.00	0.00	0.00	0.00	0.00
		-7.17	0.29	-5.48	-2.52	-9.96	3.11
		-21.52	-1.34	-16.45	-8.68	-29.88	5.99
		-35.87	-2.98	-27.42	-14.83	-49.80	8.87
		-50.22	-4.62	-38.39	-20.99	-69.73	11.75
		-64.57	-6.26	-49.35	-27.15	-89.65	14.63
		-78.92	-7.90	-60.32	-33.30	-109.57	17.50
		-93.27	-9.54	-71.29	-39.46	-129.49	20.38
		-107.61	-11.18	-82.26	-45.61	-149.41	23.26
		-121.96	-12.81	-93.22	-51.77	-169.34	26.14
		0.82	7.17	3.08	5.48	-1.44	9.96
	2.15	0.83	7.19	3.09	5.50	-1.43	9.98
		-122.16	-15.27	-93.42	-53.09	-169.60	22.56
		-107.79	-13.60	-82.43	-46.92	-149.65	19.71
		-93.42	-11.94	-71.44	-40.74	-129.70	16.85
		-79.05	-10.28	-60.45	-34.56	-109.74	14.00
		-64.67	-8.62	-49.46	-28.38	-89.79	11.14
		-50.30	-6.96	-38.47	-22.20	-69.84	8.29
		-35.93	-5.29	-27.48	-16.02	-49.88	5.43
		-21.56	-3.63	-16.49	-9.84	-29.93	2.57
		-7.19	-1.97	-5.50	-3.66	-9.98	-0.28
		0.00	0.00	0.00	0.00	0.00	0.00
		-7.19	0.31	-5.50	-2.52	-9.98	3.14
		-21.56	-1.35	-16.49	-8.70	-29.93	5.99
		-35.93	-3.02	-27.48	-14.88	-49.88	8.85
		-50.30	-4.68	-38.47	-21.06	-69.84	11.70
		-64.67	-6.34	-49.46	-27.24	-89.79	14.56
		-79.05	-8.00	-60.45	-33.42	-109.74	17.42
		-93.42	-9.66	-71.44	-39.60	-129.70	20.27
		-107.79	-11.32	-82.43	-45.78	-149.65	23.13
		-122.16	-12.99	-93.42	-51.96	-169.60	25.98

	0.83	7.19	3.09	5.50	-1.43	9.98
2.20	0.84	7.20	3.10	5.51	-1.42	9.99
	-122.36	-15.49	-93.62	-53.31	-169.87	22.33
	-107.97	-13.81	-82.61	-47.10	-149.89	19.49
	-93.57	-12.12	-71.59	-40.90	-129.90	16.66
	-79.18	-10.44	-60.58	-34.70	-109.92	13.83
	-64.78	-8.75	-49.57	-28.50	-89.93	11.00
	-50.38	-7.06	-38.55	-22.29	-69.95	8.16
	-35.99	-5.38	-27.54	-16.09	-49.96	5.33
	-21.59	-3.69	-16.52	-9.89	-29.98	2.50
	-7.20	-2.01	-5.51	-3.68	-9.99	-0.33
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.20	0.32	-5.51	-2.52	-9.99	3.17
	-21.59	-1.36	-16.52	-8.72	-29.98	6.00
	-35.99	-3.05	-27.54	-14.92	-49.96	8.83
	-50.38	-4.73	-38.55	-21.13	-69.95	11.66
	-64.78	-6.42	-49.57	-27.33	-89.93	14.49
	-79.18	-8.10	-60.58	-33.53	-109.92	17.33
	-93.57	-9.79	-71.59	-39.74	-129.90	20.16
	-107.97	-11.47	-82.61	-45.94	-149.89	22.99
	-122.36	-13.16	-93.62	-52.14	-169.87	25.82
0.84	7.20	3.10	5.51	-1.42	9.99	
2.25	0.89	7.24	3.15	5.55	-1.37	10.05
	-123.13	-16.29	-94.39	-54.09	-170.92	21.51
	-108.65	-14.51	-83.29	-47.80	-150.81	18.77
	-94.16	-12.74	-72.18	-41.50	-130.70	16.03
	-79.67	-10.96	-61.08	-35.21	-110.59	13.29
	-65.19	-9.18	-49.97	-28.92	-90.48	10.55
	-50.70	-7.41	-38.87	-22.62	-70.38	7.81
	-36.22	-5.63	-27.76	-16.33	-50.27	5.07
	-21.73	-3.86	-16.66	-10.04	-30.16	2.32
	-7.24	-2.08	-5.55	-3.74	-10.05	-0.42
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.24	0.30	-5.55	-2.55	-10.05	3.16
	-21.73	-1.47	-16.66	-8.84	-30.16	5.90
	-36.22	-3.25	-27.76	-15.14	-50.27	8.64
	-50.70	-5.02	-38.87	-21.43	-70.38	11.38
	-65.19	-6.80	-49.97	-27.73	-90.48	14.13
	-79.67	-8.58	-61.08	-34.02	-110.59	16.87
	-94.16	-10.35	-72.18	-40.31	-130.70	19.61
	-108.65	-12.13	-83.29	-46.61	-150.81	22.35
	-123.13	-13.90	-94.39	-52.90	-170.92	25.09
0.89	7.24	3.15	5.55	-1.37	10.05	
2.30	0.90	7.26	3.16	5.56	-1.36	10.07
	-123.34	-16.53	-94.60	-54.32	-171.20	21.26

	-108.83	-14.72	-83.47	-48.00	-151.06	18.55
	-94.32	-12.92	-72.34	-41.68	-130.92	15.83
	-79.81	-11.12	-61.21	-35.36	-110.78	13.11
	-65.30	-9.32	-50.08	-29.04	-90.63	10.40
	-50.79	-7.52	-38.95	-22.72	-70.49	7.68
	-36.28	-5.72	-27.82	-16.41	-50.35	4.96
	-21.77	-3.92	-16.69	-10.09	-30.21	2.25
	-7.26	-2.12	-5.56	-3.77	-10.07	-0.47
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.26	0.32	-5.56	-2.55	-10.07	3.19
	-21.77	-1.48	-16.69	-8.87	-30.21	5.90
	-36.28	-3.28	-27.82	-15.19	-50.35	8.62
	-50.79	-5.08	-38.95	-21.50	-70.49	11.34
	-65.30	-6.88	-50.08	-27.82	-90.63	14.05
	-79.81	-8.69	-61.21	-34.14	-110.78	16.77
	-94.32	-10.49	-72.34	-40.46	-130.92	19.49
	-108.83	-12.29	-83.47	-46.78	-151.06	22.20
	-123.34	-14.09	-94.60	-53.10	-171.20	24.92
	0.90	7.26	3.16	5.56	-1.36	10.07
	0.91	7.27	3.17	5.58	-1.35	10.09
2.35	-123.55	-16.76	-94.81	-54.54	-171.48	21.01
	-109.02	-14.94	-83.66	-48.20	-151.31	18.32
	-94.48	-13.11	-72.51	-41.85	-131.13	15.63
	-79.95	-11.29	-61.35	-35.51	-110.96	12.94
	-65.41	-9.46	-50.20	-29.17	-90.78	10.25
	-50.87	-7.63	-39.04	-22.82	-70.61	7.55
	-36.34	-5.81	-27.89	-16.48	-50.44	4.86
	-21.80	-3.98	-16.73	-10.14	-30.26	2.17
	-7.27	-2.16	-5.58	-3.79	-10.09	-0.52
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.27	0.33	-5.58	-2.55	-10.09	3.21
	-21.80	-1.49	-16.73	-8.89	-30.26	5.91
	-36.34	-3.32	-27.89	-15.23	-50.44	8.60
	-50.87	-5.14	-39.04	-21.58	-70.61	11.29
	-65.41	-6.97	-50.20	-27.92	-90.78	13.98
	-79.95	-8.79	-61.35	-34.26	-110.96	16.67
	-94.48	-10.62	-72.51	-40.61	-131.13	19.37
	-109.02	-12.45	-83.66	-46.95	-151.31	22.06
	-123.55	-14.27	-94.81	-53.29	-171.48	24.75
	0.91	7.27	3.17	5.58	-1.35	10.09
	0.93	7.28	3.18	5.59	-1.33	10.10
2.40	-123.76	-17.00	-95.03	-54.76	-171.77	20.76
	-109.20	-15.15	-83.85	-48.40	-151.56	18.10
	-94.64	-13.30	-72.67	-42.03	-131.35	15.43
	-80.08	-11.45	-61.49	-35.66	-111.14	12.76

	-65.52	-9.60	-50.31	-29.29	-90.94	10.09
	-50.96	-7.75	-39.13	-22.92	-70.73	7.43
	-36.40	-5.90	-27.95	-16.56	-50.52	4.76
	-21.84	-4.05	-16.77	-10.19	-30.31	2.09
	-7.28	-2.20	-5.59	-3.82	-10.10	-0.57
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.28	0.35	-5.59	-2.55	-10.10	3.24
	-21.84	-1.50	-16.77	-8.92	-30.31	5.91
	-36.40	-3.35	-27.95	-15.28	-50.52	8.58
	-50.96	-5.20	-39.13	-21.65	-70.73	11.24
	-65.52	-7.05	-50.31	-28.02	-90.94	13.91
	-80.08	-8.90	-61.49	-34.39	-111.14	16.58
	-94.64	-10.75	-72.67	-40.76	-131.35	19.25
	-109.20	-12.61	-83.85	-47.12	-151.56	21.91
	-123.76	-14.46	-95.03	-53.49	-171.77	24.58
	0.93	7.28	3.18	5.59	-1.33	10.10
	0.94	7.29	3.20	5.60	-1.32	10.12
	-123.98	-17.24	-95.24	-54.99	-172.05	20.51
	-109.39	-15.36	-84.03	-48.59	-151.81	17.87
	-94.80	-13.49	-72.83	-42.20	-131.57	15.23
	-80.22	-11.61	-61.62	-35.81	-111.33	12.59
	-65.63	-9.74	-50.42	-29.42	-91.09	9.94
	-51.05	-7.86	-39.22	-23.02	-70.85	7.30
	-36.46	-5.99	-28.01	-16.63	-50.60	4.66
	-21.88	-4.11	-16.81	-10.24	-30.36	2.02
	-7.29	-2.24	-5.60	-3.85	-10.12	-0.63
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.29	0.36	-5.60	-2.55	-10.12	3.27
	-21.88	-1.51	-16.81	-8.94	-30.36	5.91
	-36.46	-3.39	-28.01	-15.33	-50.60	8.55
	-51.05	-5.26	-39.22	-21.73	-70.85	11.20
	-65.63	-7.14	-50.42	-28.12	-91.09	13.84
	-80.22	-9.02	-61.62	-34.51	-111.33	16.48
	-94.80	-10.89	-72.83	-40.90	-131.57	19.12
	-109.39	-12.77	-84.03	-47.30	-151.81	21.77
	-123.98	-14.64	-95.24	-53.69	-172.05	24.41
	0.94	7.29	3.20	5.60	-1.32	10.12
	0.99	7.34	3.25	5.65	-1.27	10.19
	-124.80	-18.09	-96.07	-55.83	-173.17	19.64
	-110.12	-16.12	-84.76	-49.34	-152.80	17.10
	-95.44	-14.15	-73.46	-42.85	-132.42	14.55
	-80.76	-12.17	-62.16	-36.36	-112.05	12.01
	-66.07	-10.20	-50.86	-29.87	-91.68	9.46
	-51.39	-8.23	-39.56	-23.38	-71.31	6.92
	-36.71	-6.26	-28.25	-16.89	-50.93	4.37

	-22.02	-4.28	-16.95	-10.40	-30.56	1.83
	-7.34	-2.31	-5.65	-3.91	-10.19	-0.72
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.34	0.34	-5.65	-2.58	-10.19	3.26
	-22.02	-1.63	-16.95	-9.07	-30.56	5.80
	-36.71	-3.61	-28.25	-15.56	-50.93	8.35
	-51.39	-5.58	-39.56	-22.05	-71.31	10.89
	-66.07	-7.55	-50.86	-28.54	-91.68	13.44
	-80.76	-9.52	-62.16	-35.03	-112.05	15.98
	-95.44	-11.50	-73.46	-41.52	-132.42	18.53
	-110.12	-13.47	-84.76	-48.01	-152.80	21.07
	-124.80	-15.44	-96.07	-54.50	-173.17	23.62
	0.99	7.34	3.25	5.65	-1.27	10.19
2.55	1.00	7.35	3.26	5.66	-1.26	10.20
	-125.03	-18.34	-96.29	-56.06	-173.47	19.38
	-110.32	-16.34	-84.96	-49.55	-153.06	16.86
	-95.61	-14.34	-73.63	-43.03	-132.65	14.35
	-80.90	-12.34	-62.30	-36.52	-112.25	11.83
	-66.19	-10.35	-50.98	-30.00	-91.84	9.31
	-51.48	-8.35	-39.65	-23.48	-71.43	6.79
	-36.77	-6.35	-28.32	-16.97	-51.02	4.27
	-22.06	-4.35	-16.99	-10.45	-30.61	1.75
	-7.35	-2.35	-5.66	-3.93	-10.20	-0.77
	0.00	0.00	0.00	0.00	0.00	0.00
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	-22.06	-1.65	-16.99	-9.10	-30.61	5.81
	-36.77	-3.65	-28.32	-15.62	-51.02	8.32
	-51.48	-5.64	-39.65	-22.13	-71.43	10.84
	-66.19	-7.64	-50.98	-28.65	-91.84	13.36
	-80.90	-9.64	-62.30	-35.16	-112.25	15.88
	-95.61	-11.64	-73.63	-41.68	-132.65	18.40
	-110.32	-13.64	-84.96	-48.20	-153.06	20.92
	-125.03	-15.64	-96.29	-54.71	-173.47	23.44
	1.00	7.35	3.26	5.66	-1.26	10.20
2.60	1.01	7.37	3.27	5.68	-1.25	10.22
	-125.25	-18.59	-96.51	-56.30	-173.77	19.12
	-110.51	-16.56	-85.16	-49.76	-153.33	16.63
	-95.78	-14.54	-73.80	-43.21	-132.88	14.14
	-81.04	-12.51	-62.45	-36.67	-112.44	11.64
	-66.31	-10.49	-51.09	-30.13	-92.00	9.15
	-51.57	-8.47	-39.74	-23.59	-71.55	6.66
	-36.84	-6.44	-28.39	-17.05	-51.11	4.16
	-22.10	-4.42	-17.03	-10.50	-30.67	1.67
	-7.37	-2.39	-5.68	-3.96	-10.22	-0.82
	0.00	0.00	0.00	0.00	0.00	0.00

	-7.37	0.37	-5.68	-2.58	-10.22	3.31
	-22.10	-1.66	-17.03	-9.12	-30.67	5.81
	-36.84	-3.68	-28.39	-15.67	-51.11	8.30
	-51.57	-5.71	-39.74	-22.21	-71.55	10.79
	-66.31	-7.73	-51.09	-28.75	-92.00	13.28
	-81.04	-9.76	-62.45	-35.29	-112.44	15.78
	-95.78	-11.78	-73.80	-41.84	-132.88	18.27
	-110.51	-13.81	-85.16	-48.38	-153.33	20.76
	-125.25	-15.83	-96.51	-54.92	-173.77	23.26
	1.01	7.37	3.27	5.68	-1.25	10.22
2.65	1.03	7.38	3.28	5.69	-1.23	10.24
	-125.47	-18.84	-96.73	-56.54	-174.07	18.86
	-110.71	-16.79	-85.35	-49.97	-153.59	16.39
	-95.95	-14.74	-73.97	-43.40	-133.11	13.93
	-81.19	-12.69	-62.59	-36.83	-112.63	11.46
	-66.43	-10.63	-51.21	-30.26	-92.16	8.99
	-51.66	-8.58	-39.83	-23.69	-71.68	6.53
	-36.90	-6.53	-28.45	-17.12	-51.20	4.06
	-22.14	-4.48	-17.07	-10.56	-30.72	1.59
	-7.38	-2.43	-5.69	-3.99	-10.24	-0.87
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.38	0.38	-5.69	-2.58	-10.24	3.34
	-22.14	-1.67	-17.07	-9.15	-30.72	5.81
	-36.90	-3.72	-28.45	-15.72	-51.20	8.27
	-51.66	-5.77	-39.83	-22.29	-71.68	10.74
	-66.43	-7.83	-51.21	-28.86	-92.16	13.21
	-81.19	-9.88	-62.59	-35.43	-112.63	15.67
	-95.95	-11.93	-73.97	-41.99	-133.11	18.14
	-110.71	-13.98	-85.35	-48.56	-153.59	20.61
	-125.47	-16.03	-96.73	-55.13	-174.07	23.07
	1.03	7.38	3.28	5.69	-1.23	10.24
2.70	1.04	7.40	3.30	5.71	-1.22	10.26
	-125.76	-19.15	-97.02	-56.84	-174.46	18.53
	-110.96	-17.07	-85.61	-50.24	-153.94	16.10
	-96.17	-14.98	-74.19	-43.63	-133.41	13.67
	-81.37	-12.90	-62.78	-37.03	-112.89	11.23
	-66.58	-10.81	-51.36	-30.43	-92.36	8.80
	-51.78	-8.73	-39.95	-23.82	-71.84	6.37
	-36.99	-6.64	-28.54	-17.22	-51.31	3.93
	-22.19	-4.56	-17.12	-10.62	-30.79	1.50
	-7.40	-2.47	-5.71	-4.02	-10.26	-0.93
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.40	0.39	-5.71	-2.59	-10.26	3.36
	-22.19	-1.70	-17.12	-9.19	-30.79	5.80
	-36.99	-3.78	-28.54	-15.79	-51.31	8.23

	-51.78	-5.87	-39.95	-22.39	-71.84	10.66
	-66.58	-7.95	-51.36	-29.00	-92.36	13.09
	-81.37	-10.04	-62.78	-35.60	-112.89	15.53
	-96.17	-12.12	-74.19	-42.20	-133.41	17.96
	-110.96	-14.21	-85.61	-48.80	-153.94	20.39
	-125.76	-16.29	-97.02	-55.41	-174.46	22.82
	1.04	7.40	3.30	5.71	-1.22	10.26
2.75	1.06	7.41	3.31	5.72	-1.20	10.28
	-125.98	-19.41	-97.25	-57.08	-174.76	18.27
	-111.16	-17.29	-85.80	-50.45	-154.20	15.86
	-96.34	-15.18	-74.36	-43.82	-133.64	13.45
	-81.52	-13.07	-62.92	-37.19	-113.08	11.05
	-66.70	-10.96	-51.48	-30.56	-92.52	8.64
	-51.88	-8.85	-40.04	-23.93	-71.96	6.24
	-37.05	-6.74	-28.60	-17.30	-51.40	3.83
	-22.23	-4.62	-17.16	-10.67	-30.84	1.42
	-7.41	-2.51	-5.72	-4.04	-10.28	-0.98
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.41	0.40	-5.72	-2.59	-10.28	3.39
	-22.23	-1.71	-17.16	-9.21	-30.84	5.80
	-37.05	-3.82	-28.60	-15.84	-51.40	8.20
	-51.88	-5.93	-40.04	-22.47	-71.96	10.61
	-66.70	-8.04	-51.48	-29.10	-92.52	13.01
	-81.52	-10.16	-62.92	-35.73	-113.08	15.42
	-96.34	-12.27	-74.36	-42.36	-133.64	17.83
	-111.16	-14.38	-85.80	-48.99	-154.20	20.23
	-125.98	-16.49	-97.25	-55.62	-174.76	22.64
	1.06	7.41	3.31	5.72	-1.20	10.28
2.80	1.07	7.42	3.33	5.73	-1.19	10.30
	-126.21	-19.66	-97.47	-57.31	-175.07	18.00
	-111.36	-17.52	-86.00	-50.66	-154.47	15.62
	-96.51	-15.38	-74.54	-44.00	-133.88	13.24
	-81.66	-13.24	-63.07	-37.35	-113.28	10.86
	-66.82	-11.10	-51.60	-30.69	-92.68	8.48
	-51.97	-8.97	-40.13	-24.04	-72.09	6.10
	-37.12	-6.83	-28.67	-17.38	-51.49	3.72
	-22.27	-4.69	-17.20	-10.73	-30.89	1.34
	-7.42	-2.55	-5.73	-4.07	-10.30	-1.04
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.42	0.42	-5.73	-2.59	-10.30	3.42
	-22.27	-1.72	-17.20	-9.24	-30.89	5.80
	-37.12	-3.86	-28.67	-15.90	-51.49	8.18
	-51.97	-6.00	-40.13	-22.55	-72.09	10.55
	-66.82	-8.14	-51.60	-29.21	-92.68	12.93
	-81.66	-10.27	-63.07	-35.86	-113.28	15.31

	-96.51	-12.41	-74.54	-42.52	-133.88	17.69
	-111.36	-14.55	-86.00	-49.17	-154.47	20.07
	-126.21	-16.69	-97.47	-55.83	-175.07	22.45
	1.07	7.42	3.33	5.73	-1.19	10.30
2.85	1.08	7.44	3.34	5.75	-1.18	10.32
	-126.43	-19.91	-97.70	-57.55	-175.37	17.74
	-111.56	-17.74	-86.20	-50.87	-154.74	15.38
	-96.69	-15.58	-74.71	-44.19	-134.11	13.03
	-81.81	-13.42	-63.22	-37.51	-113.48	10.68
	-66.94	-11.25	-51.72	-30.82	-92.84	8.32
	-52.06	-9.09	-40.23	-24.14	-72.21	5.97
	-37.19	-6.92	-28.73	-17.46	-51.58	3.62
	-22.31	-4.76	-17.24	-10.78	-30.95	1.26
	-7.44	-2.59	-5.75	-4.10	-10.32	-1.09
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.44	0.43	-5.75	-2.59	-10.32	3.44
	-22.31	-1.74	-17.24	-9.27	-30.95	5.80
	-37.19	-3.90	-28.73	-15.95	-51.58	8.15
	-52.06	-6.07	-40.23	-22.63	-72.21	10.50
	-66.94	-8.23	-51.72	-29.31	-92.84	12.85
	-81.81	-10.39	-63.22	-36.00	-113.48	15.21
	-96.69	-12.56	-74.71	-42.68	-134.11	17.56
	-111.56	-14.72	-86.20	-49.36	-154.74	19.91
	-126.43	-16.89	-97.70	-56.04	-175.37	22.27
	1.08	7.44	3.34	5.75	-1.18	10.32
2.90	1.10	7.45	3.35	5.76	-1.16	10.33
	-126.66	-20.16	-97.92	-57.79	-175.68	17.47
	-111.76	-17.97	-86.40	-51.08	-155.01	15.14
	-96.86	-15.78	-74.88	-44.37	-134.34	12.82
	-81.96	-13.59	-63.36	-37.67	-113.67	10.49
	-67.06	-11.40	-51.84	-30.96	-93.01	8.16
	-52.15	-9.21	-40.32	-24.25	-72.34	5.84
	-37.25	-7.01	-28.80	-17.54	-51.67	3.51
	-22.35	-4.82	-17.28	-10.83	-31.00	1.18
	-7.45	-2.63	-5.76	-4.12	-10.33	-1.14
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.45	0.44	-5.76	-2.59	-10.33	3.47
	-22.35	-1.75	-17.28	-9.29	-31.00	5.80
	-37.25	-3.94	-28.80	-16.00	-51.67	8.12
	-52.15	-6.13	-40.32	-22.71	-72.34	10.45
	-67.06	-8.32	-51.84	-29.42	-93.01	12.77
	-81.96	-10.51	-63.36	-36.13	-113.67	15.10
	-96.86	-12.71	-74.88	-42.84	-134.34	17.43
	-111.76	-14.90	-86.40	-49.55	-155.01	19.75
	-126.66	-17.09	-97.92	-56.26	-175.68	22.08

	1.10	7.45	3.35	5.76	-1.16	10.33
2.95	1.11	7.46	3.37	5.77	-1.15	10.35
	-126.89	-20.41	-98.15	-58.03	-175.98	17.20
	-111.96	-18.20	-86.60	-51.30	-155.28	14.90
	-97.03	-15.98	-75.05	-44.56	-134.58	12.60
	-82.10	-13.76	-63.51	-37.83	-113.87	10.30
	-67.18	-11.54	-51.96	-31.09	-93.17	8.00
	-52.25	-9.33	-40.41	-24.36	-72.46	5.70
	-37.32	-7.11	-28.87	-17.62	-51.76	3.40
	-22.39	-4.89	-17.32	-10.88	-31.06	1.10
	-7.46	-2.67	-5.77	-4.15	-10.35	-1.20
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.46	0.45	-5.77	-2.59	-10.35	3.50
	-22.39	-1.76	-17.32	-9.32	-31.06	5.80
	-37.32	-3.98	-28.87	-16.06	-51.76	8.09
	-52.25	-6.20	-40.41	-22.79	-72.46	10.39
	-67.18	-8.42	-51.96	-29.53	-93.17	12.69
	-82.10	-10.63	-63.51	-36.26	-113.87	14.99
	-97.03	-12.85	-75.05	-43.00	-134.58	17.29
	-111.96	-15.07	-86.60	-49.73	-155.28	19.59
	-126.89	-17.29	-98.15	-56.47	-175.98	21.89
	1.11	7.46	3.37	5.77	-1.15	10.35
3.00	1.12	7.48	3.38	5.79	-1.14	10.37
	-127.11	-20.67	-98.38	-58.27	-176.29	16.94
	-112.16	-18.42	-86.80	-51.51	-155.55	14.66
	-97.20	-16.18	-75.23	-44.75	-134.81	12.39
	-82.25	-13.93	-63.65	-37.99	-114.07	10.12
	-67.30	-11.69	-52.08	-31.22	-93.33	7.84
	-52.34	-9.45	-40.51	-24.46	-72.59	5.57
	-37.39	-7.20	-28.93	-17.70	-51.85	3.30
	-22.43	-4.96	-17.36	-10.94	-31.11	1.02
	-7.48	-2.71	-5.79	-4.18	-10.37	-1.25
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.48	0.47	-5.79	-2.59	-10.37	3.52
	-22.43	-1.78	-17.36	-9.35	-31.11	5.79
	-37.39	-4.02	-28.93	-16.11	-51.85	8.07
	-52.34	-6.27	-40.51	-22.87	-72.59	10.34
	-67.30	-8.51	-52.08	-29.63	-93.33	12.61
	-82.25	-10.75	-63.65	-36.40	-114.07	14.89
	-97.20	-13.00	-75.23	-43.16	-134.81	17.16
	-112.16	-15.24	-86.80	-49.92	-155.55	19.43
	-127.11	-17.49	-98.38	-56.68	-176.29	21.71
	1.12	7.48	3.38	5.79	-1.14	10.37
3.05	1.14	7.49	3.39	5.80	-1.12	10.39
	-127.34	-20.92	-98.60	-58.51	-176.60	16.67

	-112.36	-18.65	-87.00	-51.72	-155.82	14.42
	-97.38	-16.38	-75.40	-44.94	-135.04	12.18
	-82.40	-14.11	-63.80	-38.15	-114.27	9.93
	-67.42	-11.84	-52.20	-31.36	-93.49	7.68
	-52.43	-9.57	-40.60	-24.57	-72.72	5.44
	-37.45	-7.29	-29.00	-17.78	-51.94	3.19
	-22.47	-5.02	-17.40	-10.99	-31.16	0.94
	-7.49	-2.75	-5.80	-4.20	-10.39	-1.30
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.49	0.48	-5.80	-2.59	-10.39	3.55
	-22.47	-1.79	-17.40	-9.37	-31.16	5.79
	-37.45	-4.06	-29.00	-16.16	-51.94	8.04
	-52.43	-6.33	-40.60	-22.95	-72.72	10.29
	-67.42	-8.60	-52.20	-29.74	-93.49	12.53
	-82.40	-10.87	-63.80	-36.53	-114.27	14.78
	-97.38	-13.15	-75.40	-43.32	-135.04	17.03
	-112.36	-15.42	-87.00	-50.11	-155.82	19.27
	-127.34	-17.69	-98.60	-56.90	-176.60	21.52
	1.14	7.49	3.39	5.80	-1.12	10.39
	1.20	7.55	3.45	5.86	-1.06	10.47
3.10	-128.37	-21.98	-99.63	-59.56	-177.99	15.60
	-113.27	-19.59	-87.91	-52.65	-157.05	13.48
	-98.17	-17.19	-76.19	-45.74	-136.11	11.35
	-83.06	-14.80	-64.47	-38.83	-115.17	9.22
	-67.96	-12.41	-52.75	-31.92	-94.23	7.10
	-52.86	-10.02	-41.03	-25.01	-73.29	4.97
	-37.76	-7.62	-29.30	-18.10	-52.35	2.85
	-22.65	-5.23	-17.58	-11.19	-31.41	0.72
	-7.55	-2.84	-5.86	-4.28	-10.47	-1.40
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.55	0.45	-5.86	-2.63	-10.47	3.53
	-22.65	-1.95	-17.58	-9.54	-31.41	5.65
	-37.76	-4.34	-29.30	-16.45	-52.35	7.78
	-52.86	-6.73	-41.03	-23.36	-73.29	9.90
	-67.96	-9.12	-52.75	-30.27	-94.23	12.03
	-83.06	-11.51	-64.47	-37.18	-115.17	14.15
	-98.17	-13.91	-76.19	-44.09	-136.11	16.28
	-113.27	-16.30	-87.91	-51.00	-157.05	18.40
	-128.37	-18.69	-99.63	-57.91	-177.99	20.53
	1.20	7.55	3.45	5.86	-1.06	10.47
	1.21	7.57	3.47	5.87	-1.05	10.49
3.15	-128.61	-22.24	-99.87	-59.81	-178.31	15.32
	-113.48	-19.82	-88.12	-52.87	-157.33	13.23
	-98.35	-17.40	-76.37	-45.93	-136.35	11.13
	-83.22	-14.98	-64.62	-38.99	-115.38	9.03

	-68.09	-12.56	-52.87	-32.06	-94.40	6.93
	-52.96	-10.14	-41.12	-25.12	-73.42	4.84
	-37.83	-7.72	-29.37	-18.18	-52.44	2.74
	-22.70	-5.30	-17.62	-11.24	-31.47	0.64
	-7.57	-2.88	-5.87	-4.30	-10.49	-1.46
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.57	0.46	-5.87	-2.63	-10.49	3.55
	-22.70	-1.96	-17.62	-9.57	-31.47	5.65
	-37.83	-4.38	-29.37	-16.51	-52.44	7.75
	-52.96	-6.80	-41.12	-23.45	-73.42	9.84
	-68.09	-9.22	-52.87	-30.39	-94.40	11.94
	-83.22	-11.64	-64.62	-37.32	-115.38	14.04
	-98.35	-14.06	-76.37	-44.26	-136.35	16.14
	-113.48	-16.48	-88.12	-51.20	-157.33	18.23
	-128.61	-18.90	-99.87	-58.14	-178.31	20.33
	1.21	7.57	3.47	5.87	-1.05	10.49
	1.22	7.58	3.48	5.89	-1.03	10.51
	-128.85	-22.51	-100.11	-60.06	-178.63	15.04
	-113.69	-20.06	-88.33	-53.09	-157.62	12.97
	-98.53	-17.61	-76.55	-46.13	-136.60	10.91
	-83.37	-15.16	-64.78	-39.16	-115.58	8.84
	-68.21	-12.71	-53.00	-32.20	-94.57	6.77
	-53.06	-10.27	-41.22	-25.23	-73.55	4.70
	-37.90	-7.82	-29.44	-18.26	-52.54	2.63
	-22.74	-5.37	-17.67	-11.30	-31.52	0.56
	-7.58	-2.92	-5.89	-4.33	-10.51	-1.51
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.58	0.47	-5.89	-2.64	-10.51	3.58
	-22.74	-1.98	-17.67	-9.60	-31.52	5.65
	-37.90	-4.43	-29.44	-16.57	-52.54	7.72
	-53.06	-6.87	-41.22	-23.53	-73.55	9.79
	-68.21	-9.32	-53.00	-30.50	-94.57	11.86
	-83.37	-11.77	-64.78	-37.47	-115.58	13.92
	-98.53	-14.22	-76.55	-44.43	-136.60	15.99
	-113.69	-16.67	-88.33	-51.40	-157.62	18.06
	-128.85	-19.12	-100.11	-58.36	-178.63	20.13
	1.22	7.58	3.48	5.89	-1.03	10.51
	1.24	7.59	3.50	5.90	-1.02	10.53
	-129.09	-22.77	-100.35	-60.31	-178.95	14.76
	-113.90	-20.30	-88.54	-53.32	-157.90	12.72
	-98.71	-17.82	-76.74	-46.32	-136.85	10.68
	-83.53	-15.34	-64.93	-39.33	-115.79	8.64
	-68.34	-12.87	-53.13	-32.33	-94.74	6.60
	-53.15	-10.39	-41.32	-25.34	-73.69	4.56
	-37.97	-7.91	-29.51	-18.35	-52.63	2.52

	-22.78	-5.44	-17.71	-11.35	-31.58	0.48
	-7.59	-2.96	-5.90	-4.36	-10.53	-1.56
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.59	0.48	-5.90	-2.64	-10.53	3.60
	-22.78	-1.99	-17.71	-9.63	-31.58	5.65
	-37.97	-4.47	-29.51	-16.62	-52.63	7.69
	-53.15	-6.95	-41.32	-23.62	-73.69	9.73
	-68.34	-9.42	-53.13	-30.61	-94.74	11.77
	-83.53	-11.90	-64.93	-37.61	-115.79	13.81
	-98.71	-14.38	-76.74	-44.60	-136.85	15.85
	-113.90	-16.85	-88.54	-51.59	-157.90	17.89
	-129.09	-19.33	-100.35	-58.59	-178.95	19.93
	1.24	7.59	3.50	5.90	-1.02	10.53
3.30	1.30	7.66	3.56	5.97	-0.96	10.61
	-130.17	-23.88	-101.43	-61.41	-180.42	13.64
	-114.86	-21.28	-89.50	-54.29	-159.19	11.73
	-99.54	-18.68	-77.57	-47.17	-137.97	9.81
	-84.23	-16.07	-65.63	-40.04	-116.74	7.90
	-68.91	-13.47	-53.70	-32.92	-95.51	5.99
	-53.60	-10.86	-41.77	-25.80	-74.29	4.07
	-38.29	-8.26	-29.83	-18.68	-53.06	2.16
	-22.97	-5.66	-17.90	-11.56	-31.84	0.25
	-7.66	-3.05	-5.97	-4.44	-10.61	-1.67
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.66	0.45	-5.97	-2.69	-10.61	3.58
	-22.97	-2.16	-17.90	-9.81	-31.84	5.49
	-38.29	-4.76	-29.83	-16.93	-53.06	7.41
	-53.60	-7.37	-41.77	-24.05	-74.29	9.32
	-68.91	-9.97	-53.70	-31.17	-95.51	11.23
	-84.23	-12.57	-65.63	-38.29	-116.74	13.15
	-99.54	-15.18	-77.57	-45.42	-137.97	15.06
	-114.86	-17.78	-89.50	-52.54	-159.19	16.97
	-130.17	-20.39	-101.43	-59.66	-180.42	18.89
	1.30	7.66	3.56	5.97	-0.96	10.61
3.35	1.32	7.67	3.58	5.98	-0.94	10.63
	-130.42	-24.16	-101.68	-61.67	-180.75	13.35
	-115.08	-21.53	-89.72	-54.52	-159.49	11.47
	-99.73	-18.89	-77.76	-47.37	-138.22	9.58
	-84.39	-16.26	-65.80	-40.22	-116.96	7.70
	-69.05	-13.63	-53.83	-33.07	-95.69	5.81
	-53.70	-10.99	-41.87	-25.92	-74.43	3.93
	-38.36	-8.36	-29.91	-18.77	-53.16	2.05
	-23.02	-5.73	-17.94	-11.61	-31.90	0.16
	-7.67	-3.09	-5.98	-4.46	-10.63	-1.72
	0.00	0.00	0.00	0.00	0.00	0.00

	-7.67	0.46	-5.98	-2.69	-10.63	3.61
	-23.02	-2.17	-17.94	-9.84	-31.90	5.49
	-38.36	-4.81	-29.91	-16.99	-53.16	7.37
	-53.70	-7.44	-41.87	-24.14	-74.43	9.26
	-69.05	-10.08	-53.83	-31.29	-95.69	11.14
	-84.39	-12.71	-65.80	-38.44	-116.96	13.03
	-99.73	-15.34	-77.76	-45.59	-138.22	14.91
	-115.08	-17.98	-89.72	-52.75	-159.49	16.79
	-130.42	-20.61	-101.68	-59.90	-180.75	18.68
	1.32	7.67	3.58	5.98	-0.94	10.63
3.40	1.33	7.69	3.59	6.00	-0.93	10.65
	-130.67	-24.44	-101.93	-61.94	-181.09	13.06
	-115.30	-21.78	-89.94	-54.76	-159.79	11.21
	-99.93	-19.11	-77.95	-47.58	-138.48	9.35
	-84.55	-16.45	-65.96	-40.39	-117.18	7.50
	-69.18	-13.79	-53.97	-33.21	-95.87	5.64
	-53.81	-11.12	-41.97	-26.03	-74.57	3.79
	-38.43	-8.46	-29.98	-18.85	-53.26	1.93
	-23.06	-5.80	-17.99	-11.67	-31.96	0.08
	-7.69	-3.13	-6.00	-4.49	-10.65	-1.78
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.69	0.47	-6.00	-2.69	-10.65	3.63
	-23.06	-2.19	-17.99	-9.87	-31.96	5.48
	-38.43	-4.86	-29.98	-17.05	-53.26	7.34
	-53.81	-7.52	-41.97	-24.23	-74.57	9.19
	-69.18	-10.18	-53.97	-31.41	-95.87	11.05
	-84.55	-12.84	-65.96	-38.59	-117.18	12.90
	-99.93	-15.51	-77.95	-45.77	-138.48	14.76
	-115.30	-18.17	-89.94	-52.95	-159.79	16.61
	-130.67	-20.83	-101.93	-60.13	-181.09	18.47
	1.33	7.69	3.59	6.00	-0.93	10.65
3.45	1.35	7.71	3.61	6.02	-0.91	10.68
	-131.00	-24.80	-102.26	-62.28	-181.54	12.69
	-115.59	-22.09	-90.23	-55.06	-160.18	10.87
	-100.18	-19.39	-78.20	-47.84	-138.82	9.06
	-84.77	-16.69	-66.17	-40.62	-117.47	7.24
	-69.35	-13.99	-54.14	-33.40	-96.11	5.43
	-53.94	-11.29	-42.11	-26.18	-74.75	3.61
	-38.53	-8.58	-30.08	-18.96	-53.39	1.80
	-23.12	-5.88	-18.05	-11.74	-32.04	-0.02
	-7.71	-3.18	-6.02	-4.52	-10.68	-1.83
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.71	0.48	-6.02	-2.70	-10.68	3.65
	-23.12	-2.22	-18.05	-9.92	-32.04	5.47
	-38.53	-4.93	-30.08	-17.13	-53.39	7.28

	-53.94	-7.63	-42.11	-24.35	-74.75	9.10
	-69.35	-10.33	-54.14	-31.57	-96.11	10.91
	-84.77	-13.03	-66.17	-38.79	-117.47	12.73
	-100.18	-15.73	-78.20	-46.01	-138.82	14.54
	-115.59	-18.44	-90.23	-53.23	-160.18	16.36
	-131.00	-21.14	-102.26	-60.45	-181.54	18.18
	1.35	7.71	3.61	6.02	-0.91	10.68
3.50	1.37	7.72	3.62	6.03	-0.89	10.70
	-131.26	-25.07	-102.52	-62.55	-181.88	12.40
	-115.81	-22.34	-90.46	-55.30	-160.48	10.61
	-100.37	-19.61	-78.40	-48.05	-139.09	8.83
	-84.93	-16.88	-66.33	-40.80	-117.69	7.04
	-69.49	-14.15	-54.27	-33.55	-96.29	5.25
	-54.05	-11.42	-42.21	-26.30	-74.89	3.47
	-38.60	-8.68	-30.15	-19.05	-53.49	1.68
	-23.16	-5.95	-18.09	-11.80	-32.10	-0.10
	-7.72	-3.22	-6.03	-4.55	-10.70	-1.89
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.72	0.49	-6.03	-2.70	-10.70	3.68
	-23.16	-2.24	-18.09	-9.95	-32.10	5.46
	-38.60	-4.97	-30.15	-17.20	-53.49	7.25
	-54.05	-7.71	-42.21	-24.45	-74.89	9.03
	-69.49	-10.44	-54.27	-31.69	-96.29	10.82
	-84.93	-13.17	-66.33	-38.94	-117.69	12.60
	-100.37	-15.90	-78.40	-46.19	-139.09	14.39
	-115.81	-18.63	-90.46	-53.44	-160.48	16.18
	-131.26	-21.36	-102.52	-60.69	-181.88	17.96
	1.37	7.72	3.62	6.03	-0.89	10.70
3.55	1.38	7.74	3.64	6.05	-0.88	10.72
	-131.51	-25.35	-102.77	-62.81	-182.22	12.10
	-116.04	-22.59	-90.68	-55.53	-160.78	10.35
	-100.57	-19.83	-78.59	-48.25	-139.35	8.59
	-85.09	-17.07	-66.50	-40.98	-117.91	6.84
	-69.62	-14.31	-54.41	-33.70	-96.47	5.08
	-54.15	-11.55	-42.32	-26.42	-75.03	3.32
	-38.68	-8.79	-30.23	-19.14	-53.59	1.57
	-23.21	-6.02	-18.14	-11.86	-32.16	-0.19
	-7.74	-3.26	-6.05	-4.58	-10.72	-1.94
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.74	0.50	-6.05	-2.70	-10.72	3.70
	-23.21	-2.26	-18.14	-9.98	-32.16	5.46
	-38.68	-5.02	-30.23	-17.26	-53.59	7.21
	-54.15	-7.78	-42.32	-24.54	-75.03	8.97
	-69.62	-10.55	-54.41	-31.81	-96.47	10.72
	-85.09	-13.31	-66.50	-39.09	-117.91	12.48

		-100.57	-16.07	-78.59	-46.37	-139.35	14.24
		-116.04	-18.83	-90.68	-53.65	-160.78	15.99
		-131.51	-21.59	-102.77	-60.93	-182.22	17.75
		1.38	7.74	3.64	6.05	-0.88	10.72
		1.40	7.75	3.65	6.06	-0.86	10.74
		-131.76	-25.63	-103.02	-63.08	-182.56	11.81
		-116.26	-22.84	-90.90	-55.77	-161.09	10.09
		-100.76	-20.05	-78.78	-48.46	-139.61	8.36
		-85.26	-17.26	-66.66	-41.15	-118.13	6.63
		-69.76	-14.47	-54.54	-33.84	-96.65	4.91
		-54.25	-11.68	-42.42	-26.53	-75.17	3.18
		-38.75	-8.89	-30.30	-19.23	-53.70	1.45
		-23.25	-6.09	-18.18	-11.92	-32.22	-0.27
		-7.75	-3.30	-6.06	-4.61	-10.74	-2.00
		0.00	0.00	0.00	0.00	0.00	0.00
		-7.75	0.51	-6.06	-2.70	-10.74	3.73
		-23.25	-2.28	-18.18	-10.01	-32.22	5.45
		-38.75	-5.07	-30.30	-17.32	-53.70	7.18
		-54.25	-7.86	-42.42	-24.63	-75.17	8.90
		-69.76	-10.65	-54.54	-31.94	-96.65	10.63
		-85.26	-13.44	-66.66	-39.24	-118.13	12.36
		-100.76	-16.23	-78.78	-46.55	-139.61	14.08
		-116.26	-19.03	-90.90	-53.86	-161.09	15.81
		-131.76	-21.82	-103.02	-61.17	-182.56	17.54
		1.40	7.75	3.65	6.06	-0.86	10.74
		1.41	7.77	3.67	6.08	-0.85	10.76
		-132.02	-25.91	-103.28	-63.35	-182.91	11.52
		-116.48	-23.09	-91.13	-56.01	-161.39	9.82
		-100.95	-20.27	-78.98	-48.67	-139.87	8.13
		-85.42	-17.45	-66.83	-41.33	-118.35	6.43
		-69.89	-14.63	-54.68	-33.99	-96.83	4.73
		-54.36	-11.81	-42.53	-26.65	-75.31	3.04
		-38.83	-8.99	-30.38	-19.31	-53.80	1.34
		-23.30	-6.17	-18.23	-11.98	-32.28	-0.36
		-7.77	-3.35	-6.08	-4.64	-10.76	-2.05
		0.00	0.00	0.00	0.00	0.00	0.00
		-7.77	0.52	-6.08	-2.70	-10.76	3.75
		-23.30	-2.30	-18.23	-10.04	-32.28	5.45
		-38.83	-5.12	-30.38	-17.38	-53.80	7.14
		-54.36	-7.94	-42.53	-24.72	-75.31	8.84
		-69.89	-10.76	-54.68	-32.06	-96.83	10.54
		-85.42	-13.58	-66.83	-39.40	-118.35	12.23
		-100.95	-16.40	-78.98	-46.73	-139.87	13.93
		-116.48	-19.22	-91.13	-54.07	-161.39	15.63
		-132.02	-22.04	-103.28	-61.41	-182.91	17.32

	1.41	7.77	3.67	6.08	-0.85	10.76
3.70	1.43	7.78	3.68	6.09	-0.83	10.78
	-132.27	-26.19	-103.53	-63.61	-183.25	11.23
	-116.71	-23.34	-91.35	-56.24	-161.69	9.56
	-101.15	-20.49	-79.17	-48.88	-140.13	7.89
	-85.59	-17.64	-66.99	-41.51	-118.57	6.23
	-70.02	-14.79	-54.81	-34.14	-97.01	4.56
	-54.46	-11.94	-42.63	-26.77	-75.46	2.89
	-38.90	-9.09	-30.45	-19.40	-53.90	1.23
	-23.34	-6.24	-18.27	-12.03	-32.34	-0.44
	-7.78	-3.39	-6.09	-4.66	-10.78	-2.11
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.78	0.54	-6.09	-2.70	-10.78	3.77
	-23.34	-2.32	-18.27	-10.07	-32.34	5.44
	-38.90	-5.17	-30.45	-17.44	-53.90	7.11
	-54.46	-8.02	-42.63	-24.81	-75.46	8.78
	-70.02	-10.87	-54.81	-32.18	-97.01	10.44
	-85.59	-13.72	-66.99	-39.55	-118.57	12.11
	-101.15	-16.57	-79.17	-46.91	-140.13	13.78
	-116.71	-19.42	-91.35	-54.28	-161.69	15.44
	-132.27	-22.27	-103.53	-61.65	-183.25	17.11
	1.43	7.78	3.68	6.09	-0.83	10.78
3.75	1.44	7.80	3.70	6.10	-0.82	10.80
	-132.52	-26.47	-103.78	-63.88	-183.59	10.93
	-116.93	-23.59	-91.57	-56.48	-161.99	9.30
	-101.34	-20.71	-79.36	-49.08	-140.39	7.66
	-85.75	-17.83	-67.15	-41.68	-118.79	6.02
	-70.16	-14.95	-54.94	-34.29	-97.20	4.38
	-54.57	-12.07	-42.73	-26.89	-75.60	2.75
	-38.98	-9.19	-30.52	-19.49	-54.00	1.11
	-23.39	-6.31	-18.31	-12.09	-32.40	-0.53
	-7.80	-3.43	-6.10	-4.69	-10.80	-2.16
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.80	0.55	-6.10	-2.71	-10.80	3.80
	-23.39	-2.33	-18.31	-10.10	-32.40	5.44
	-38.98	-5.21	-30.52	-17.50	-54.00	7.07
	-54.57	-8.10	-42.73	-24.90	-75.60	8.71
	-70.16	-10.98	-54.94	-32.30	-97.20	10.35
	-85.75	-13.86	-67.15	-39.70	-118.79	11.98
	-101.34	-16.74	-79.36	-47.10	-140.39	13.62
	-116.93	-19.62	-91.57	-54.49	-161.99	15.26
	-132.52	-22.50	-103.78	-61.89	-183.59	16.89
	1.44	7.80	3.70	6.10	-0.82	10.80
3.80	1.46	7.81	3.71	6.12	-0.80	10.82
	-132.78	-26.75	-104.04	-64.15	-183.93	10.64

	-117.16	-23.84	-91.80	-56.72	-162.29	9.03
	-101.54	-20.93	-79.56	-49.29	-140.66	7.42
	-85.91	-18.02	-67.32	-41.86	-119.02	5.82
	-70.29	-15.11	-55.08	-34.43	-97.38	4.21
	-54.67	-12.20	-42.84	-27.01	-75.74	2.60
	-39.05	-9.29	-30.60	-19.58	-54.10	1.00
	-23.43	-6.38	-18.36	-12.15	-32.46	-0.61
	-7.81	-3.47	-6.12	-4.72	-10.82	-2.22
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.81	0.56	-6.12	-2.71	-10.82	3.82
	-23.43	-2.35	-18.36	-10.14	-32.46	5.43
	-39.05	-5.26	-30.60	-17.56	-54.10	7.04
	-54.67	-8.17	-42.84	-24.99	-75.74	8.65
	-70.29	-11.08	-55.08	-32.42	-97.38	10.25
	-85.91	-13.99	-67.32	-39.85	-119.02	11.86
	-101.54	-16.91	-79.56	-47.28	-140.66	13.47
	-117.16	-19.82	-91.80	-54.70	-162.29	15.07
	-132.78	-22.73	-104.04	-62.13	-183.93	16.68
	1.46	7.81	3.71	6.12	-0.80	10.82
	1.53	7.89	3.79	6.20	-0.73	10.92
3.85	-134.08	-28.09	-105.34	-65.47	-185.70	9.29
	-118.31	-25.02	-92.95	-57.88	-163.85	7.84
	-102.53	-21.96	-80.56	-50.30	-142.00	6.39
	-86.76	-18.89	-68.16	-42.72	-120.16	4.93
	-70.98	-15.83	-55.77	-35.14	-98.31	3.48
	-55.21	-12.77	-43.38	-27.56	-76.46	2.03
	-39.44	-9.70	-30.98	-19.97	-54.62	0.57
	-23.66	-6.64	-18.59	-12.39	-32.77	-0.88
	-7.89	-3.57	-6.20	-4.81	-10.92	-2.33
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.89	0.51	-6.20	-2.77	-10.92	3.79
	-23.66	-2.56	-18.59	-10.35	-32.77	5.24
	-39.44	-5.62	-30.98	-17.93	-54.62	6.69
	-55.21	-8.68	-43.38	-25.52	-76.46	8.15
	-70.98	-11.75	-55.77	-33.10	-98.31	9.60
	-86.76	-14.81	-68.16	-40.68	-120.16	11.05
	-102.53	-17.88	-80.56	-48.26	-142.00	12.51
	-118.31	-20.94	-92.95	-55.84	-163.85	13.96
	-134.08	-24.01	-105.34	-63.42	-185.70	15.41
	1.53	7.89	3.79	6.20	-0.73	10.92
3.90	1.55	7.90	3.81	6.21	-0.71	10.94
	-134.35	-28.38	-105.61	-65.75	-186.06	8.99
	-118.54	-25.28	-93.19	-58.13	-164.17	7.56
	-102.74	-22.19	-80.76	-50.52	-142.28	6.14
	-86.93	-19.09	-68.34	-42.91	-120.39	4.72

	-71.13	-16.00	-55.91	-35.29	-98.50	3.30
	-55.32	-12.90	-43.49	-27.68	-76.61	1.88
	-39.51	-9.81	-31.06	-20.07	-54.72	0.45
	-23.71	-6.71	-18.64	-12.45	-32.83	-0.97
	-7.90	-3.61	-6.21	-4.84	-10.94	-2.39
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.90	0.52	-6.21	-2.77	-10.94	3.81
	-23.71	-2.58	-18.64	-10.39	-32.83	5.23
	-39.51	-5.67	-31.06	-18.00	-54.72	6.66
	-55.32	-8.77	-43.49	-25.61	-76.61	8.08
	-71.13	-11.86	-55.91	-33.23	-98.50	9.50
	-86.93	-14.96	-68.34	-40.84	-120.39	10.92
	-102.74	-18.05	-80.76	-48.45	-142.28	12.34
	-118.54	-21.15	-93.19	-56.06	-164.17	13.77
	-134.35	-24.25	-105.61	-63.68	-186.06	15.19
	1.55	7.90	3.81	6.21	-0.71	10.94
	1.56	7.92	3.82	6.23	-0.70	10.97
	-134.62	-28.67	-105.88	-66.03	-186.42	8.68
	-118.78	-25.55	-93.42	-58.38	-164.48	7.29
	-102.94	-22.42	-80.96	-50.74	-142.55	5.90
	-87.10	-19.29	-68.51	-43.09	-120.62	4.51
	-71.27	-16.16	-56.05	-35.45	-98.69	3.12
	-55.43	-13.04	-43.60	-27.80	-76.76	1.73
	-39.59	-9.91	-31.14	-20.16	-54.83	0.34
	-23.76	-6.78	-18.68	-12.51	-32.90	-1.05
	-7.92	-3.66	-6.23	-4.87	-10.97	-2.44
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.92	0.53	-6.23	-2.78	-10.97	3.84
	-23.76	-2.60	-18.68	-10.42	-32.90	5.23
	-39.59	-5.72	-31.14	-18.06	-54.83	6.62
	-55.43	-8.85	-43.60	-25.71	-76.76	8.01
	-71.27	-11.98	-56.05	-33.35	-98.69	9.40
	-87.10	-15.10	-68.51	-41.00	-120.62	10.79
	-102.94	-18.23	-80.96	-48.64	-142.55	12.18
	-118.78	-21.36	-93.42	-56.29	-164.48	13.57
	-134.62	-24.49	-105.88	-63.93	-186.42	14.96
	1.56	7.92	3.82	6.23	-0.70	10.97
	1.58	7.93	3.84	6.24	-0.68	10.99
	-134.88	-28.97	-106.14	-66.31	-186.78	8.37
	-119.01	-25.81	-93.66	-58.63	-164.80	7.01
	-103.15	-22.65	-81.17	-50.95	-142.83	5.66
	-87.28	-19.49	-68.68	-43.28	-120.86	4.30
	-71.41	-16.33	-56.19	-35.60	-98.88	2.94
	-55.54	-13.17	-43.71	-27.93	-76.91	1.58
	-39.67	-10.02	-31.22	-20.25	-54.93	0.22

	-23.80	-6.86	-18.73	-12.57	-32.96	-1.14
	-7.93	-3.70	-6.24	-4.90	-10.99	-2.50
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.93	0.54	-6.24	-2.78	-10.99	3.86
	-23.80	-2.62	-18.73	-10.45	-32.96	5.22
	-39.67	-5.78	-31.22	-18.13	-54.93	6.58
	-55.54	-8.93	-43.71	-25.81	-76.91	7.94
	-71.41	-12.09	-56.19	-33.48	-98.88	9.30
	-87.28	-15.25	-68.68	-41.16	-120.86	10.66
	-103.15	-18.41	-81.17	-48.83	-142.83	12.02
	-119.01	-21.57	-93.66	-56.51	-164.80	13.37
	-134.88	-24.73	-106.14	-64.19	-186.78	14.73
	1.58	7.93	3.84	6.24	-0.68	10.99
4.05	1.66	8.01	3.92	6.32	-0.60	11.10
	-136.25	-30.36	-107.51	-67.68	-188.62	6.97
	-120.22	-27.04	-94.86	-59.85	-166.43	5.77
	-104.19	-23.72	-82.21	-52.01	-144.24	4.57
	-88.16	-20.40	-69.57	-44.17	-122.05	3.37
	-72.13	-17.08	-56.92	-36.34	-99.86	2.17
	-56.10	-13.76	-44.27	-28.50	-77.67	0.98
	-40.07	-10.44	-31.62	-20.66	-55.48	-0.22
	-24.04	-7.13	-18.97	-12.83	-33.29	-1.42
	-8.01	-3.81	-6.32	-4.99	-11.10	-2.62
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.01	0.49	-6.32	-2.85	-11.10	3.82
	-24.04	-2.83	-18.97	-10.68	-33.29	5.02
	-40.07	-6.15	-31.62	-18.52	-55.48	6.22
	-56.10	-9.47	-44.27	-26.35	-77.67	7.41
	-72.13	-12.79	-56.92	-34.19	-99.86	8.61
	-88.16	-16.11	-69.57	-42.03	-122.05	9.81
	-104.19	-19.43	-82.21	-49.86	-144.24	11.01
	-120.22	-22.75	-94.86	-57.70	-166.43	12.21
	-136.25	-26.07	-107.51	-65.54	-188.62	13.41
	1.66	8.01	3.92	6.32	-0.60	11.10
4.10	1.68	8.03	3.93	6.34	-0.58	11.12
	-136.53	-30.66	-107.79	-67.98	-189.00	6.65
	-120.47	-27.31	-95.11	-60.11	-166.76	5.48
	-104.40	-23.96	-82.43	-52.24	-144.53	4.32
	-88.34	-20.61	-69.75	-44.37	-122.29	3.15
	-72.28	-17.26	-57.06	-36.50	-100.06	1.99
	-56.22	-13.90	-44.38	-28.63	-77.82	0.82
	-40.16	-10.55	-31.70	-20.76	-55.59	-0.35
	-24.09	-7.20	-19.02	-12.89	-33.35	-1.51
	-8.03	-3.85	-6.34	-5.02	-11.12	-2.68
	0.00	0.00	0.00	0.00	0.00	0.00

	-8.03	0.50	-6.34	-2.85	-11.12	3.84
	-24.09	-2.85	-19.02	-10.72	-33.35	5.01
	-40.16	-6.21	-31.70	-18.59	-55.59	6.17
	-56.22	-9.56	-44.38	-26.46	-77.82	7.34
	-72.28	-12.91	-57.06	-34.33	-100.06	8.50
	-88.34	-16.26	-69.75	-42.20	-122.29	9.67
	-104.40	-19.61	-82.43	-50.07	-144.53	10.84
	-120.47	-22.97	-95.11	-57.93	-166.76	12.00
	-136.53	-26.32	-107.79	-65.80	-189.00	13.17
	1.68	8.03	3.93	6.34	-0.58	11.12
4.15	1.69	8.05	3.95	6.36	-0.57	11.14
	-136.81	-30.97	-108.07	-68.27	-189.38	6.33
	-120.71	-27.59	-95.35	-60.37	-167.10	5.20
	-104.62	-24.20	-82.64	-52.47	-144.82	4.06
	-88.52	-20.82	-69.93	-44.56	-122.54	2.93
	-72.43	-17.43	-57.21	-36.66	-100.26	1.80
	-56.33	-14.05	-44.50	-28.76	-77.98	0.67
	-40.24	-10.66	-31.78	-20.86	-55.70	-0.47
	-24.14	-7.28	-19.07	-12.95	-33.42	-1.60
	-8.05	-3.89	-6.36	-5.05	-11.14	-2.73
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.05	0.51	-6.36	-2.85	-11.14	3.87
	-24.14	-2.88	-19.07	-10.75	-33.42	5.00
	-40.24	-6.26	-31.78	-18.66	-55.70	6.13
	-56.33	-9.65	-44.50	-26.56	-77.98	7.26
	-72.43	-13.03	-57.21	-34.46	-100.26	8.40
	-88.52	-16.42	-69.93	-42.36	-122.54	9.53
	-104.62	-19.80	-82.64	-50.27	-144.82	10.66
	-120.71	-23.19	-95.35	-58.17	-167.10	11.79
	-136.81	-26.57	-108.07	-66.07	-189.38	12.93
	1.69	8.05	3.95	6.36	-0.57	11.14
4.20	1.71	8.07	3.97	6.38	-0.54	11.17
	-137.18	-31.37	-108.44	-68.66	-189.88	5.91
	-121.04	-27.94	-95.69	-60.71	-167.54	4.83
	-104.90	-24.51	-82.93	-52.77	-145.20	3.74
	-88.76	-21.08	-70.17	-44.82	-122.86	2.65
	-72.63	-17.66	-57.41	-36.87	-100.53	1.56
	-56.49	-14.23	-44.65	-28.93	-78.19	0.47
	-40.35	-10.80	-31.90	-20.98	-55.85	-0.62
	-24.21	-7.37	-19.14	-13.03	-33.51	-1.71
	-8.07	-3.94	-6.38	-5.09	-11.17	-2.79
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.07	0.51	-6.38	-2.86	-11.17	3.88
	-24.21	-2.92	-19.14	-10.81	-33.51	4.97
	-40.35	-6.35	-31.90	-18.75	-55.85	6.06

	-56.49	-9.78	-44.65	-26.70	-78.19	7.15
	-72.63	-13.20	-57.41	-34.65	-100.53	8.24
	-88.76	-16.63	-70.17	-42.59	-122.86	9.33
	-104.90	-20.06	-82.93	-50.54	-145.20	10.42
	-121.04	-23.49	-95.69	-58.49	-167.54	11.50
	-137.18	-26.92	-108.44	-66.43	-189.88	12.59
	1.71	8.07	3.97	6.38	-0.54	11.17
4.25	1.73	8.09	3.99	6.40	-0.53	11.19
	-137.46	-31.68	-108.72	-68.95	-190.26	5.59
	-121.29	-28.22	-95.93	-60.97	-167.88	4.54
	-105.12	-24.76	-83.14	-52.99	-145.49	3.48
	-88.95	-21.29	-70.35	-45.01	-123.11	2.43
	-72.77	-17.83	-57.56	-37.03	-100.73	1.37
	-56.60	-14.37	-44.77	-29.05	-78.34	0.32
	-40.43	-10.91	-31.98	-21.08	-55.96	-0.74
	-24.26	-7.45	-19.19	-13.10	-33.58	-1.80
	-8.09	-3.98	-6.40	-5.12	-11.19	-2.85
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.09	0.52	-6.40	-2.86	-11.19	3.91
	-24.26	-2.94	-19.19	-10.84	-33.58	4.96
	-40.43	-6.40	-31.98	-18.82	-55.96	6.02
	-56.60	-9.86	-44.77	-26.80	-78.34	7.07
	-72.77	-13.33	-57.56	-34.78	-100.73	8.13
	-88.95	-16.79	-70.35	-42.76	-123.11	9.18
	-105.12	-20.25	-83.14	-50.74	-145.49	10.24
	-121.29	-23.71	-95.93	-58.72	-167.88	11.30
	-137.46	-27.17	-108.72	-66.70	-190.26	12.35
	1.73	8.09	3.99	6.40	-0.53	11.19
4.30	1.75	8.10	4.01	6.41	-0.51	11.21
	-137.74	-31.99	-109.01	-69.25	-190.64	5.27
	-121.54	-28.49	-96.18	-61.23	-168.21	4.25
	-105.33	-25.00	-83.36	-53.22	-145.78	3.23
	-89.13	-21.50	-70.53	-45.21	-123.36	2.21
	-72.92	-18.01	-57.71	-37.20	-100.93	1.18
	-56.72	-14.51	-44.88	-29.18	-78.50	0.16
	-40.51	-11.02	-32.06	-21.17	-56.07	-0.86
	-24.31	-7.52	-19.24	-13.16	-33.64	-1.88
	-8.10	-4.03	-6.41	-5.15	-11.21	-2.91
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.10	0.53	-6.41	-2.87	-11.21	3.93
	-24.31	-2.96	-19.24	-10.88	-33.64	4.95
	-40.51	-6.46	-32.06	-18.89	-56.07	5.97
	-56.72	-9.95	-44.88	-26.90	-78.50	7.00
	-72.92	-13.45	-57.71	-34.92	-100.93	8.02
	-89.13	-16.94	-70.53	-42.93	-123.36	9.04

	-105.33	-20.44	-83.36	-50.94	-145.78	10.06
	-121.54	-23.93	-96.18	-58.96	-168.21	11.09
	-137.74	-27.43	-109.01	-66.97	-190.64	12.11
	1.75	8.10	4.01	6.41	-0.51	11.21
4.35	1.76	8.12	4.02	6.43	-0.49	11.24
	-138.03	-32.30	-109.29	-69.54	-191.02	4.95
	-121.79	-28.77	-96.43	-61.50	-168.55	3.96
	-105.55	-25.24	-83.57	-53.45	-146.07	2.97
	-89.31	-21.71	-70.72	-45.40	-123.60	1.98
	-73.07	-18.18	-57.86	-37.36	-101.13	0.99
	-56.83	-14.65	-45.00	-29.31	-78.66	0.00
	-40.60	-11.13	-32.14	-21.27	-56.18	-0.98
	-24.36	-7.60	-19.29	-13.22	-33.71	-1.97
	-8.12	-4.07	-6.43	-5.18	-11.24	-2.96
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.12	0.54	-6.43	-2.87	-11.24	3.95
	-24.36	-2.99	-19.29	-10.92	-33.71	4.94
	-40.60	-6.51	-32.14	-18.96	-56.18	5.93
	-56.83	-10.04	-45.00	-27.01	-78.66	6.92
	-73.07	-13.57	-57.86	-35.05	-101.13	7.91
	-89.31	-17.10	-70.72	-43.10	-123.60	8.90
	-105.55	-20.63	-83.57	-51.14	-146.07	9.89
	-121.79	-24.16	-96.43	-59.19	-168.55	10.88
	-138.03	-27.68	-109.29	-67.24	-191.02	11.87
	1.76	8.12	4.02	6.43	-0.49	11.24
4.40	1.78	8.14	4.04	6.45	-0.48	11.26
	-138.31	-32.60	-109.57	-69.84	-191.40	4.63
	-122.04	-29.04	-96.68	-61.76	-168.88	3.67
	-105.76	-25.48	-83.79	-53.68	-146.37	2.72
	-89.49	-21.92	-70.90	-45.60	-123.85	1.76
	-73.22	-18.36	-58.01	-37.52	-101.33	0.81
	-56.95	-14.80	-45.12	-29.44	-78.81	-0.15
	-40.68	-11.24	-32.23	-21.36	-56.29	-1.11
	-24.41	-7.67	-19.34	-13.28	-33.78	-2.06
	-8.14	-4.11	-6.45	-5.21	-11.26	-3.02
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.14	0.55	-6.45	-2.87	-11.26	3.98
	-24.41	-3.01	-19.34	-10.95	-33.78	4.93
	-40.68	-6.57	-32.23	-19.03	-56.29	5.89
	-56.95	-10.13	-45.12	-27.11	-78.81	6.84
	-73.22	-13.69	-58.01	-35.19	-101.33	7.80
	-89.49	-17.26	-70.90	-43.27	-123.85	8.76
	-105.76	-20.82	-83.79	-51.35	-146.37	9.71
	-122.04	-24.38	-96.68	-59.43	-168.88	10.67
	-138.31	-27.94	-109.57	-67.50	-191.40	11.63

	1.78	8.14	4.04	6.45	-0.48	11.26
4.45	1.80	8.15	4.06	6.46	-0.46	11.28
	-138.59	-32.91	-109.85	-70.13	-191.78	4.31
	-122.29	-29.32	-96.93	-62.02	-169.22	3.39
	-105.98	-25.72	-84.00	-53.91	-146.66	2.46
	-89.68	-22.13	-71.08	-45.80	-124.09	1.54
	-73.37	-18.53	-58.16	-37.68	-101.53	0.62
	-57.07	-14.94	-45.23	-29.57	-78.97	-0.31
	-40.76	-11.34	-32.31	-21.46	-56.41	-1.23
	-24.46	-7.75	-19.39	-13.35	-33.84	-2.15
	-8.15	-4.16	-6.46	-5.24	-11.28	-3.08
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.15	0.56	-6.46	-2.88	-11.28	4.00
	-24.46	-3.03	-19.39	-10.99	-33.84	4.92
	-40.76	-6.63	-32.31	-19.10	-56.41	5.85
	-57.07	-10.22	-45.23	-27.21	-78.97	6.77
	-73.37	-13.82	-58.16	-35.33	-101.53	7.69
	-89.68	-17.41	-71.08	-43.44	-124.09	8.61
	-105.98	-21.01	-84.00	-51.55	-146.66	9.54
	-122.29	-24.60	-96.93	-59.66	-169.22	10.46
	-138.59	-28.19	-109.85	-67.77	-191.78	11.38
1.80	8.15	4.06	6.46	-0.46	11.28	
4.50	1.81	8.17	4.07	6.48	-0.44	11.30
	-138.87	-33.22	-110.13	-70.43	-192.16	3.99
	-122.53	-29.59	-97.18	-62.28	-169.56	3.10
	-106.20	-25.97	-84.22	-54.14	-146.95	2.21
	-89.86	-22.34	-71.26	-45.99	-124.34	1.32
	-73.52	-18.71	-58.31	-37.85	-101.73	0.43
	-57.18	-15.08	-45.35	-29.70	-79.13	-0.46
	-40.84	-11.45	-32.39	-21.56	-56.52	-1.35
	-24.51	-7.83	-19.44	-13.41	-33.91	-2.24
	-8.17	-4.20	-6.48	-5.27	-11.30	-3.13
	0.00	0.00	0.00	0.00	0.00	0.00
	-8.17	0.57	-6.48	-2.88	-11.30	4.02
	-24.51	-3.06	-19.44	-11.03	-33.91	4.91
	-40.84	-6.68	-32.39	-19.17	-56.52	5.80
	-57.18	-10.31	-45.35	-27.32	-79.13	6.69
	-73.52	-13.94	-58.31	-35.46	-101.73	7.58
	-89.86	-17.57	-71.26	-43.61	-124.34	8.47
	-106.20	-21.20	-84.22	-51.75	-146.95	9.36
	-122.53	-24.82	-97.18	-59.90	-169.56	10.25
	-138.87	-28.45	-110.13	-68.04	-192.16	11.14
1.81	8.17	4.07	6.48	-0.44	11.30	

En la Tabla 28 se muestran las combinaciones de esfuerzos para las diagonales en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 28. . Combinación de esfuerzos de las diagonales - 20 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)
0.50	60.35	445.59	197.15	342.89	-76.46	618.29
	54.08	398.68	176.44	306.79	-68.28	553.21
	47.82	351.78	155.73	270.70	-60.10	488.12
	41.56	304.88	135.03	234.61	-51.91	423.04
	35.29	257.97	114.32	198.51	-43.73	357.96
	29.03	211.07	93.61	162.42	-35.55	292.87
	22.77	164.16	72.90	126.33	-27.37	227.79
	16.50	117.26	52.19	90.23	-19.18	162.71
	10.24	70.36	31.49	54.14	-11.00	97.62
	3.98	23.45	10.78	18.05	-2.82	32.54
	2.17	22.24	9.42	17.11	-5.09	30.86
	8.11	66.72	29.06	51.34	-12.84	92.58
	14.05	111.20	48.69	85.57	-20.60	154.30
	19.98	155.69	68.33	119.80	-28.36	216.03
	25.92	200.17	87.97	154.03	-36.12	277.75
	31.86	244.65	107.61	188.26	-43.88	339.47
	37.80	289.13	127.25	222.49	-51.64	401.19
	43.74	333.61	146.89	256.72	-59.40	462.91
	49.68	378.09	166.53	290.95	-67.16	524.63
	55.62	422.57	186.16	325.18	-74.92	586.36
0.55	51.10	405.69	177.01	311.14	-74.81	563.10
	45.81	362.99	158.42	278.39	-66.80	503.83
	40.52	320.28	139.83	245.64	-58.79	444.55
	35.23	277.58	121.25	212.89	-50.78	385.28
	29.95	234.88	102.66	180.13	-42.77	326.01
	24.66	192.17	84.07	147.38	-34.76	266.73
	19.37	149.47	65.49	114.63	-26.75	207.46
	14.08	106.76	46.90	81.88	-18.74	148.18
	8.79	64.06	28.31	49.13	-10.73	88.91
	3.50	21.35	9.72	16.38	-2.72	29.64
	1.69	20.17	8.37	15.47	-5.00	27.99
	6.68	60.50	25.93	46.40	-12.56	83.98
	11.68	100.84	43.48	77.33	-20.13	139.96
	16.67	141.17	61.04	108.27	-27.69	195.94
	21.67	181.50	78.60	139.20	-35.26	251.93
	26.66	221.84	96.15	170.14	-42.83	307.91
	31.66	262.17	113.71	201.07	-50.39	363.89
36.65	302.51	131.26	232.00	-57.96	419.88	

	41.65	342.84	148.82	262.94	-65.52	475.86
	46.64	383.17	166.37	293.87	-73.09	531.85
0.60	41.26	370.57	158.18	282.74	-75.66	514.59
	37.01	331.56	141.58	252.98	-67.55	460.42
	32.76	292.55	124.97	223.21	-59.45	406.25
	28.51	253.55	108.37	193.45	-51.35	352.08
	24.26	214.54	91.76	163.69	-43.25	297.92
	20.00	175.53	75.16	133.93	-35.15	243.75
	15.75	136.52	58.55	104.17	-27.05	189.58
	11.50	97.52	41.95	74.40	-18.95	135.42
	7.25	58.51	25.34	44.64	-10.85	81.25
	3.00	19.50	8.74	14.88	-2.75	27.08
	1.18	18.35	7.40	14.00	-5.04	25.48
	5.18	55.05	23.03	42.01	-12.66	76.45
	9.18	91.76	38.65	70.01	-20.28	127.42
	13.18	128.46	54.27	98.01	-27.91	178.38
	17.19	165.16	69.90	126.02	-35.53	229.35
	21.19	201.86	85.52	154.02	-43.15	280.32
	25.19	238.57	101.15	182.02	-50.77	331.28
	29.19	275.27	116.77	210.03	-58.40	382.25
33.19	311.97	132.39	238.03	-66.02	433.22	
37.19	348.67	148.02	266.03	-73.64	484.18	
0.65	37.35	345.48	146.74	263.28	-72.04	479.80
	33.51	309.11	131.34	235.57	-64.32	429.30
	29.67	272.75	115.94	207.85	-56.60	378.79
	25.83	236.38	100.54	180.14	-48.87	328.28
	21.99	200.01	85.14	152.43	-41.15	277.78
	18.16	163.65	69.74	124.71	-33.43	227.27
	14.32	127.28	54.34	97.00	-25.71	176.77
	10.48	90.92	38.94	69.28	-17.98	126.26
	6.64	54.55	23.54	41.57	-10.26	75.76
	2.80	18.18	8.14	13.86	-2.54	25.25
	0.97	17.05	6.81	12.99	-4.86	23.68
	4.57	51.15	21.25	38.98	-12.10	71.03
	8.17	85.25	35.69	64.96	-19.34	118.39
	11.77	119.34	50.13	90.95	-26.58	165.74
	15.37	153.44	64.56	116.93	-33.82	213.10
	18.97	187.54	79.00	142.92	-41.07	260.46
	22.57	221.64	93.44	168.90	-48.31	307.81
	26.17	255.74	107.88	194.89	-55.55	355.17
29.77	289.84	122.32	220.88	-62.79	402.52	
33.37	323.93	136.76	246.86	-70.03	449.88	
0.70	32.73	322.91	135.74	245.48	-70.29	448.55
	29.37	288.92	121.49	219.64	-62.75	401.33
	26.02	254.93	107.25	193.80	-55.21	354.12

	22.67	220.94	93.01	167.96	-47.67	306.90
	19.32	186.95	78.77	142.12	-40.13	259.69
	15.97	152.96	64.53	116.28	-32.59	212.47
	12.62	118.97	50.29	90.44	-25.05	165.26
	9.27	84.98	36.05	64.60	-17.51	118.04
	5.92	50.99	21.81	38.76	-9.97	70.82
	2.57	17.00	7.57	12.92	-2.43	23.61
	0.73	15.88	6.24	12.08	-4.78	22.06
	3.86	47.65	19.55	36.23	-11.82	66.19
	6.99	79.42	32.86	60.38	-18.87	110.32
	10.12	111.19	46.17	84.53	-25.92	154.45
	13.26	142.96	59.48	108.68	-32.96	198.58
	16.39	174.73	72.79	132.83	-40.01	242.71
	19.52	206.49	86.10	156.98	-47.06	286.84
	22.65	238.26	99.41	181.13	-54.10	330.97
	25.78	270.03	112.72	205.28	-61.15	375.10
	28.91	301.80	126.03	229.43	-68.20	419.23
	29.55	304.36	127.09	231.01	-67.99	422.84
	26.53	272.32	113.76	206.70	-60.69	378.33
	23.52	240.28	100.43	182.38	-53.39	333.82
	20.50	208.24	87.10	158.06	-46.09	289.31
	17.49	176.21	73.77	133.74	-38.79	244.80
	14.48	144.17	60.44	109.43	-31.49	200.29
	11.46	112.13	47.11	85.11	-24.19	155.78
	8.45	80.09	33.78	60.79	-16.89	111.27
	5.43	48.06	20.45	36.48	-9.59	66.76
	2.42	16.02	7.12	12.16	-2.29	22.25
0.75	0.56	14.93	5.79	11.33	-4.67	20.74
	3.37	44.78	18.21	33.99	-11.47	62.22
	6.18	74.64	30.63	56.65	-18.28	103.70
	8.99	104.50	43.06	79.31	-25.08	145.17
	11.80	134.35	55.48	101.98	-31.88	186.65
	14.61	164.21	67.90	124.64	-38.69	228.13
	17.42	194.06	80.32	147.30	-45.49	269.61
	20.23	223.92	92.75	169.96	-52.29	311.09
	23.04	253.78	105.17	192.62	-59.10	352.57
	25.85	283.63	117.59	215.28	-65.90	394.05
	28.58	290.09	121.39	220.28	-64.24	403.00
	25.66	259.55	108.66	197.09	-57.33	360.58
	22.75	229.02	95.93	173.90	-50.43	318.16
	19.84	198.48	83.20	150.72	-43.52	275.74
	16.93	167.95	70.47	127.53	-36.61	233.32
	14.02	137.41	57.74	104.34	-29.70	190.89
	11.11	106.87	45.01	81.16	-22.79	148.47
	8.20	76.34	32.28	57.97	-15.89	106.05
0.80						

	5.29	45.80	19.56	34.78	-8.98	63.63
	2.38	15.27	6.83	11.59	-2.07	21.21
	0.50	14.19	5.49	10.78	-4.49	19.71
	3.20	42.57	17.32	32.33	-10.92	59.14
	5.91	70.95	29.15	53.88	-17.34	98.57
	8.61	99.33	40.98	75.43	-23.76	138.00
	11.32	127.72	52.81	96.98	-30.18	177.43
	14.02	156.10	64.64	118.53	-36.60	216.85
	16.73	184.48	76.48	140.08	-43.02	256.28
	19.44	212.86	88.31	161.63	-49.44	295.71
	22.14	241.24	100.14	183.19	-55.86	335.14
	24.85	269.62	111.97	204.74	-62.28	374.57
	26.01	275.93	114.71	209.20	-62.69	383.39
	23.37	246.89	102.68	187.18	-55.94	343.04
	20.73	217.84	90.66	165.16	-49.19	302.68
	18.09	188.80	78.63	143.14	-42.45	262.32
	15.45	159.75	66.61	121.12	-35.70	221.96
	12.81	130.71	54.58	99.10	-28.95	181.61
	10.17	101.66	42.56	77.08	-22.21	141.25
	7.53	72.61	30.53	55.05	-15.46	100.89
	4.89	43.57	18.51	33.03	-8.72	60.54
	2.26	14.52	6.48	11.01	-1.97	20.18
	0.36	13.47	5.14	10.21	-4.43	18.71
	2.80	40.40	16.29	30.63	-10.69	56.13
	5.25	67.33	27.44	51.05	-16.94	93.55
	7.70	94.26	38.59	71.47	-23.20	130.97
	10.14	121.20	49.74	91.89	-29.45	168.39
	12.59	148.13	60.89	112.31	-35.71	205.82
	15.04	175.06	72.04	132.73	-41.96	243.24
	17.49	201.99	83.19	153.14	-48.22	280.66
	19.93	228.93	94.34	173.56	-54.47	318.08
	22.38	255.86	105.49	193.98	-60.73	355.50
	25.24	265.00	110.32	200.97	-59.84	368.18
	22.68	237.10	98.76	179.81	-53.39	329.43
	20.13	209.21	87.19	158.66	-46.94	290.67
	17.57	181.31	75.63	137.50	-40.49	251.92
	15.01	153.42	64.07	116.35	-34.04	213.16
	12.46	125.52	52.51	95.19	-27.59	174.40
	9.90	97.63	40.94	74.04	-21.15	135.65
	7.34	69.74	29.38	52.89	-14.70	96.89
	4.79	41.84	17.82	31.73	-8.25	58.13
	2.23	13.95	6.26	10.58	-1.80	19.38
	0.30	12.91	4.91	9.79	-4.30	17.93
	2.67	38.72	15.61	29.36	-10.27	53.79
	5.03	64.53	26.31	48.93	-16.24	89.65

	7.40	90.34	37.01	68.51	-22.21	125.51
	9.77	116.15	47.70	88.08	-28.17	161.37
	12.13	141.96	58.40	107.66	-34.14	197.23
	14.50	167.77	69.10	127.23	-40.11	233.10
	16.86	193.58	79.80	146.80	-46.07	268.96
	19.23	219.39	90.50	166.38	-52.04	304.82
	21.59	245.20	101.20	185.95	-58.01	340.68
	24.71	255.48	106.60	193.84	-57.17	354.96
0.95	22.21	228.59	95.43	173.44	-51.00	317.59
	19.71	201.70	84.26	153.03	-44.83	280.23
	17.21	174.81	73.09	132.63	-38.66	242.86
	14.71	147.91	61.92	112.22	-32.49	205.50
	12.21	121.02	50.75	91.82	-26.32	168.14
	9.71	94.13	39.58	71.41	-20.15	130.77
	7.21	67.23	28.41	51.01	-13.98	93.41
	4.72	40.34	17.24	30.61	-7.81	56.05
	2.22	13.45	6.07	10.20	-1.64	18.68
	0.26	12.42	4.71	9.42	-4.19	17.25
	2.57	37.26	15.03	28.27	-9.89	51.76
	4.88	62.09	25.34	47.11	-15.59	86.27
	7.19	86.93	35.66	65.96	-21.29	120.78
	9.50	111.77	45.98	84.80	-26.99	155.29
	11.80	136.61	56.29	103.65	-32.68	189.79
	14.11	161.45	66.61	122.49	-38.38	224.30
	16.42	186.28	76.92	141.34	-44.08	258.81
	18.73	211.12	87.24	160.18	-49.78	293.32
	21.04	235.96	97.56	179.03	-55.48	327.83
	22.84	245.64	101.89	186.11	-56.21	341.31
	20.54	219.78	91.21	166.52	-50.13	305.39
	18.24	193.92	80.54	146.93	-44.06	269.46
	15.94	168.07	69.87	127.34	-37.99	233.53
	13.64	142.21	59.19	107.75	-31.92	197.60
	11.34	116.35	48.52	88.16	-25.85	161.67
	9.04	90.50	37.85	68.57	-19.78	125.75
	6.73	64.64	27.17	48.98	-13.71	89.82
	4.43	38.78	16.50	29.39	-7.63	53.89
	2.13	12.93	5.83	9.80	-1.56	17.96
	0.16	11.92	4.47	9.03	-4.16	16.56
	2.28	35.76	14.31	27.10	-9.76	49.69
	4.40	59.60	24.15	45.16	-15.35	82.82
	6.52	83.45	33.99	63.22	-20.95	115.95
	8.64	107.29	43.83	81.29	-26.55	149.08
	10.76	131.13	53.68	99.35	-32.15	182.20
	12.88	154.97	63.52	117.42	-37.75	215.33
	15.01	178.81	73.36	135.48	-43.35	248.46

	17.13	202.65	83.20	153.54	-48.94	281.59
	19.25	226.49	93.04	171.61	-54.54	314.72
1.05	22.51	238.18	99.02	180.54	-54.00	330.94
	20.24	213.11	88.65	161.54	-48.16	296.11
	17.98	188.04	78.28	142.54	-42.32	261.27
	15.72	162.97	67.91	123.53	-36.48	226.43
	13.45	137.89	57.54	104.53	-30.63	191.60
	11.19	112.82	47.17	85.52	-24.79	156.76
	8.92	87.75	36.80	66.52	-18.95	121.93
	6.66	62.68	26.43	47.51	-13.11	87.09
	4.39	37.61	16.06	28.51	-7.27	52.25
	2.13	12.54	5.68	9.50	-1.42	17.42
	0.12	11.54	4.31	8.75	-4.07	16.04
	2.21	34.63	13.86	26.25	-9.45	48.11
	4.29	57.71	23.41	43.75	-14.83	80.19
	6.38	80.80	32.96	61.25	-20.21	112.27
	8.46	103.89	42.51	78.75	-25.59	144.34
	10.55	126.97	52.06	96.25	-30.97	176.42
	12.63	150.06	61.61	113.74	-36.35	208.50
	14.72	173.14	71.16	131.24	-41.73	240.57
	16.80	196.23	80.71	148.74	-47.10	272.65
	18.89	219.31	90.26	166.24	-52.48	304.73
1.10	21.99	231.27	96.23	175.33	-52.25	321.34
	19.78	206.93	86.15	156.88	-46.59	287.51
	17.57	182.58	76.08	138.42	-40.93	253.69
	15.37	158.24	66.00	119.96	-35.27	219.86
	13.16	133.89	55.92	101.51	-29.61	186.04
	10.95	109.55	45.85	83.05	-23.95	152.21
	8.74	85.21	35.77	64.60	-18.29	118.39
	6.53	60.86	25.70	46.14	-12.63	84.56
	4.33	36.52	15.62	27.68	-6.97	50.74
	2.12	12.17	5.55	9.23	-1.31	16.91
	0.08	11.19	4.17	8.49	-4.00	15.55
	2.11	33.58	13.43	25.46	-9.21	46.66
	4.14	55.97	22.70	42.43	-14.42	77.77
	6.17	78.36	31.97	59.41	-19.62	108.88
	8.20	100.75	41.23	76.38	-24.83	139.99
	10.23	123.14	50.50	93.36	-30.03	171.10
	12.26	145.53	59.77	110.33	-35.24	202.21
	14.29	167.92	69.03	127.30	-40.44	233.31
	16.32	190.31	78.30	144.28	-45.65	264.42
	18.35	212.70	87.57	161.25	-50.86	295.53
1.15	20.58	224.11	92.78	169.70	-51.61	311.43
	18.53	200.52	83.06	151.84	-46.01	278.64
	16.47	176.93	73.35	133.97	-40.42	245.86

	14.41	153.34	63.64	116.11	-34.82	213.08
	12.35	129.75	53.93	98.25	-29.23	180.30
	10.29	106.16	44.22	80.38	-23.63	147.52
	8.24	82.57	34.51	62.52	-18.03	114.74
	6.18	58.98	24.80	44.66	-12.44	81.95
	4.12	35.39	15.08	26.79	-6.84	49.17
	2.06	11.80	5.37	8.93	-1.25	16.39
	0.00	10.84	3.99	8.21	-3.99	15.06
	1.89	32.51	12.91	24.62	-9.13	45.18
	3.78	54.19	21.83	41.03	-14.28	75.30
	5.67	75.86	30.75	57.44	-19.42	105.42
	7.56	97.54	39.68	73.85	-24.56	135.53
	9.45	119.21	48.60	90.27	-29.70	165.65
	11.34	140.89	57.52	106.68	-34.84	195.77
	13.23	162.56	66.45	123.09	-39.98	225.89
	15.12	184.23	75.37	139.50	-45.12	256.01
	17.01	205.91	84.29	155.91	-50.26	286.13
	20.43	218.76	90.77	165.73	-49.91	303.97
	18.39	195.73	81.27	148.28	-44.49	271.98
	16.35	172.71	71.77	130.84	-39.07	239.98
	14.31	149.68	62.27	113.39	-33.65	207.98
	12.27	126.65	52.77	95.95	-28.23	175.99
	10.23	103.62	43.27	78.50	-22.81	143.99
	8.19	80.60	33.77	61.06	-17.39	111.99
	6.15	57.57	24.27	43.61	-11.97	79.99
	4.11	34.54	14.77	26.17	-6.55	48.00
	2.07	11.51	5.28	8.72	-1.13	16.00
	-0.03	10.57	3.88	8.01	-3.93	14.69
	1.85	31.71	12.60	24.02	-8.91	44.06
	3.72	52.85	21.32	40.04	-13.88	73.44
	5.59	73.99	30.04	56.05	-18.86	102.81
	7.47	95.13	38.76	72.07	-23.83	132.18
	9.34	116.27	47.48	88.08	-28.81	161.56
	11.21	137.41	56.21	104.10	-33.78	190.93
	13.08	158.55	64.93	120.11	-38.76	220.31
	14.96	179.69	73.65	136.12	-43.73	249.68
	16.83	200.83	82.37	152.14	-48.71	279.06
	20.32	213.92	88.98	162.14	-48.34	297.24
	18.29	191.41	79.67	145.07	-43.08	265.95
	16.27	168.89	70.36	128.00	-37.83	234.66
	14.24	146.37	61.05	110.94	-32.57	203.37
	12.21	123.85	51.74	93.87	-27.31	172.09
	10.19	101.33	42.43	76.80	-22.05	140.80
	8.16	78.81	33.12	59.74	-16.80	109.51
	6.13	56.30	23.81	42.67	-11.54	78.22

	4.11	33.78	14.50	25.60	-6.28	46.93
	2.08	11.26	5.19	8.53	-1.03	15.64
	-0.05	10.33	3.78	7.83	-3.88	14.35
	1.81	30.99	12.32	23.49	-8.70	43.06
	3.67	51.65	20.86	39.14	-13.53	71.76
	5.53	72.31	29.40	54.80	-18.35	100.47
	7.39	92.96	37.94	70.46	-23.17	129.17
	9.24	113.62	46.49	86.12	-28.00	157.88
	11.10	134.28	55.03	101.78	-32.82	186.58
	12.96	154.94	63.57	117.43	-37.64	215.29
	14.82	175.60	72.11	133.09	-42.47	243.99
	16.68	196.26	80.65	148.75	-47.29	272.70
	20.23	209.54	87.36	158.89	-46.90	291.14
	18.22	187.48	78.22	142.17	-41.79	260.49
	16.20	165.43	69.08	125.44	-36.68	229.84
	14.19	143.37	59.94	108.72	-31.57	199.20
	12.17	121.31	50.81	91.99	-26.46	168.55
	10.16	99.26	41.67	75.27	-21.36	137.91
	8.14	77.20	32.53	58.54	-16.25	107.26
	6.12	55.14	23.39	41.81	-11.14	76.61
	4.11	33.09	14.25	25.09	-6.03	45.97
	2.09	11.03	5.11	8.36	-0.92	15.32
	-0.07	10.11	3.69	7.67	-3.84	14.05
	1.78	30.34	12.07	23.01	-8.52	42.15
	3.62	50.56	20.45	38.34	-13.20	70.25
	5.47	70.79	28.83	53.68	-17.89	98.35
	7.32	91.01	37.21	69.02	-22.57	126.46
	9.17	111.24	45.59	84.35	-27.26	154.56
	11.02	131.47	53.97	99.69	-31.94	182.66
	12.86	151.69	62.35	115.03	-36.62	210.76
	14.71	171.92	70.73	130.36	-41.31	238.86
	16.56	192.14	79.11	145.70	-45.99	266.96
1.30	20.17	205.55	85.90	155.95	-45.56	285.59
	18.17	183.92	76.92	139.53	-40.59	255.52
	16.16	162.28	67.94	123.12	-35.62	225.46
	14.15	140.64	58.95	106.70	-30.65	195.40
	12.14	119.01	49.97	90.29	-25.68	165.34
	10.14	97.37	40.98	73.87	-20.71	135.28
	8.13	75.73	32.00	57.45	-15.74	105.22
	6.12	54.09	23.01	41.04	-10.77	75.15
	4.12	32.46	14.03	24.62	-5.80	45.09
	2.11	10.82	5.04	8.21	-0.83	15.03
	-0.09	9.92	3.61	7.52	-3.80	13.78
	1.75	29.75	11.85	22.57	-8.35	41.33
	3.59	49.58	20.08	37.62	-12.91	68.89
1.35						

	5.43	69.42	28.32	52.67	-17.46	96.45
	7.27	89.25	36.55	67.71	-22.02	124.00
	9.11	109.09	44.79	82.76	-26.58	151.56
	10.95	128.92	53.02	97.81	-31.13	179.11
	12.79	148.75	61.26	112.85	-35.69	206.67
	14.63	168.59	69.50	127.90	-40.24	234.23
	16.47	188.42	77.73	142.95	-44.80	261.78
1.40	20.14	201.92	84.59	153.27	-44.31	280.53
	18.14	180.67	75.74	137.14	-39.47	251.00
	16.14	159.41	66.90	121.00	-34.63	221.47
	14.13	138.16	58.05	104.87	-29.79	191.94
	12.13	116.90	49.21	88.73	-24.94	162.41
	10.13	95.65	40.36	72.60	-20.10	132.88
	8.13	74.39	31.52	56.47	-15.26	103.35
	6.13	53.14	22.67	40.33	-10.42	73.82
	4.13	31.88	13.83	24.20	-5.58	44.29
	2.12	10.63	4.98	8.07	-0.73	14.76
	-0.11	9.74	3.54	7.39	-3.76	13.53
	1.72	29.22	11.64	22.18	-8.20	40.59
	3.56	48.70	19.75	36.96	-12.64	67.66
	5.39	68.18	27.86	51.75	-17.08	94.72
	7.22	87.66	35.96	66.53	-21.51	121.78
	9.06	107.14	44.07	81.32	-25.95	148.84
	10.89	126.61	52.17	96.11	-30.39	175.90
	12.73	146.09	60.28	110.89	-34.82	202.97
	14.56	165.57	68.38	125.68	-39.26	230.03
	16.40	185.05	76.49	140.46	-43.70	257.09
1.45	20.13	198.61	83.40	150.83	-43.15	275.91
	18.13	177.70	74.68	134.95	-38.43	246.87
	16.13	156.80	65.96	119.07	-33.70	217.82
	14.13	135.89	57.24	103.20	-28.98	188.78
	12.13	114.98	48.52	87.32	-24.26	159.74
	10.13	94.08	39.81	71.44	-19.54	130.69
	8.14	73.17	31.09	55.57	-14.81	101.65
	6.14	52.27	22.37	39.69	-10.09	72.61
	4.14	31.36	13.65	23.81	-5.37	43.56
	2.14	10.45	4.93	7.94	-0.65	14.52
	-0.13	9.58	3.47	7.27	-3.74	13.31
	1.70	28.74	11.46	21.82	-8.06	39.92
	3.53	47.89	19.45	36.37	-12.39	66.53
	5.36	67.05	27.44	50.92	-16.72	93.15
	7.19	86.21	35.43	65.47	-21.04	119.76
	9.02	105.36	43.42	80.02	-25.37	146.38
	10.85	124.52	51.41	94.56	-29.70	172.99
	12.68	143.68	59.40	109.11	-34.03	199.60

	14.52	162.84	67.38	123.66	-38.35	226.22
	16.35	181.99	75.37	138.21	-42.68	252.83
1.50	20.13	195.57	82.32	148.60	-42.06	271.68
	18.13	174.99	73.72	132.95	-37.45	243.09
	16.14	154.40	65.11	117.31	-32.84	214.49
	14.14	133.81	56.51	101.67	-28.23	185.89
	12.14	113.23	47.90	86.03	-23.62	157.29
	10.15	92.64	39.30	70.39	-19.00	128.69
	8.15	72.05	30.70	54.75	-14.39	100.09
	6.15	51.47	22.09	39.10	-9.78	71.50
	4.16	30.88	13.49	23.46	-5.17	42.90
	2.16	10.29	4.88	7.82	-0.56	14.30
	-0.15	9.43	3.41	7.17	-3.71	13.10
	1.68	28.30	11.29	21.50	-7.94	39.31
	3.51	47.16	19.18	35.83	-12.16	65.51
	5.34	66.03	27.06	50.17	-16.39	91.72
	7.17	84.89	34.95	64.50	-20.61	117.93
	9.00	103.75	42.83	78.83	-24.84	144.13
	10.83	122.62	50.72	93.16	-29.06	170.34
	12.66	141.48	58.60	107.50	-33.29	196.54
	14.49	160.35	66.48	121.83	-37.51	222.75
	16.32	179.21	74.37	136.16	-41.74	248.96
1.55	20.15	192.79	81.34	146.55	-41.04	267.81
	18.16	172.50	72.84	131.13	-36.53	239.62
	16.16	152.20	64.34	115.70	-32.02	211.43
	14.16	131.91	55.84	100.27	-27.52	183.24
	12.17	111.62	47.34	84.85	-23.01	155.05
	10.17	91.32	38.84	69.42	-18.50	126.86
	8.17	71.03	30.34	53.99	-14.00	98.67
	6.18	50.73	21.84	38.57	-9.49	70.48
	4.18	30.44	13.34	23.14	-4.99	42.29
	2.18	10.15	4.84	7.71	-0.48	14.10
	-0.17	9.30	3.35	7.07	-3.69	12.92
	1.66	27.90	11.14	21.21	-7.82	38.75
	3.49	46.49	18.93	35.34	-11.95	64.59
	5.32	65.09	26.72	49.48	-16.08	90.42
	7.15	83.69	34.51	63.62	-20.21	116.25
	8.98	102.29	42.30	77.76	-24.34	142.09
	10.81	120.89	50.09	91.89	-28.47	167.92
	12.64	139.48	57.88	106.03	-32.60	193.76
	14.47	158.08	65.67	120.17	-36.73	219.59
	16.30	176.68	73.46	134.31	-40.86	245.43
1.60	20.19	190.23	80.46	144.68	-40.07	264.24
	18.19	170.21	72.05	129.45	-35.66	236.43
	16.20	150.19	63.65	114.22	-31.26	208.61

	14.20	130.16	55.24	98.99	-26.85	180.80
	12.20	110.14	46.83	83.76	-22.44	152.98
	10.20	90.11	38.43	68.53	-18.03	125.17
	8.20	70.09	30.02	53.30	-13.62	97.35
	6.20	50.06	21.62	38.07	-9.22	69.54
	4.20	30.04	13.21	22.84	-4.81	41.72
	2.20	10.01	4.80	7.61	-0.40	13.91
	-0.19	9.18	3.30	6.98	-3.67	12.75
	1.65	27.53	11.01	20.94	-7.71	38.24
	3.48	45.89	18.71	34.90	-11.75	63.74
	5.31	64.24	26.42	48.86	-15.79	89.23
	7.14	82.60	34.12	62.82	-19.83	114.73
	8.98	100.95	41.83	76.78	-23.87	140.22
	10.81	119.30	49.53	90.74	-27.92	165.72
	12.64	137.66	57.23	104.70	-31.96	191.21
	14.47	156.01	64.94	118.66	-36.00	216.71
	16.30	174.37	72.64	132.62	-40.04	242.20
1.65	20.25	187.88	79.65	142.96	-39.16	260.96
	18.24	168.11	71.33	127.92	-34.84	233.49
	16.24	148.33	63.01	112.87	-30.53	206.02
	14.24	128.55	54.69	97.82	-26.21	178.55
	12.24	108.77	46.37	82.77	-21.90	151.08
	10.23	89.00	38.05	67.72	-17.58	123.61
	8.23	69.22	29.73	52.67	-13.27	96.14
	6.23	49.44	21.41	37.62	-8.95	68.67
	4.23	29.67	13.09	22.57	-4.64	41.20
	2.22	9.89	4.77	7.52	-0.32	13.73
	-0.20	9.07	3.25	6.90	-3.66	12.59
	1.63	27.20	10.88	20.70	-7.62	37.78
	3.47	45.33	18.51	34.49	-11.57	62.96
	5.30	63.46	26.14	48.29	-15.53	88.15
	7.14	81.60	33.77	62.09	-19.49	113.33
	8.98	99.73	41.39	75.89	-23.44	138.52
	10.81	117.86	49.02	89.68	-27.40	163.70
	12.65	135.99	56.65	103.48	-31.35	188.89
	14.48	154.12	64.28	117.28	-35.31	214.08
	16.32	172.26	71.91	131.07	-39.27	239.26
1.70	20.31	185.71	78.92	141.39	-38.30	257.94
	18.31	166.17	70.68	126.50	-34.07	230.79
	16.30	146.62	62.44	111.62	-29.84	203.64
	14.29	127.07	54.20	96.74	-25.61	176.49
	12.28	107.52	45.95	81.85	-21.39	149.34
	10.28	87.97	37.71	66.97	-17.16	122.18
	8.27	68.42	29.47	52.09	-12.93	95.03
	6.26	48.87	21.23	37.21	-8.70	67.88

	4.25	29.32	12.98	22.32	-4.48	40.73
	2.25	9.77	4.74	7.44	-0.25	13.58
	-0.22	8.96	3.21	6.82	-3.65	12.45
	1.62	26.89	10.77	20.47	-7.53	37.35
	3.46	44.82	18.33	34.12	-11.40	62.25
	5.30	62.75	25.89	47.77	-15.28	87.16
	7.14	80.68	33.45	61.42	-19.16	112.06
	8.98	98.61	41.00	75.07	-23.04	136.96
	10.83	116.54	48.56	88.72	-26.91	161.86
	12.67	134.47	56.12	102.37	-30.79	186.76
	14.51	152.40	63.68	116.02	-34.67	211.67
	16.35	170.32	71.24	129.67	-38.54	236.57
	20.39	183.71	78.26	139.93	-37.48	255.15
1.75	18.38	164.38	70.09	125.20	-33.33	228.29
	16.36	145.04	61.92	110.47	-29.19	201.44
	14.35	125.70	53.74	95.74	-25.04	174.58
	12.34	106.36	45.57	81.01	-20.90	147.72
	10.32	87.02	37.40	66.28	-16.75	120.86
	8.31	67.68	29.23	51.55	-12.61	94.00
	6.30	48.35	21.06	36.82	-8.46	67.15
	4.28	29.01	12.89	22.09	-4.32	40.29
	2.27	9.67	4.72	7.36	-0.18	13.43
	-0.24	8.87	3.17	6.76	-3.64	12.32
	1.61	26.61	10.67	20.27	-7.44	36.96
	3.46	44.36	18.16	33.79	-11.25	61.61
	5.31	62.10	25.66	47.30	-15.05	86.25
	7.15	79.84	33.16	60.81	-18.85	110.89
	9.00	97.58	40.65	74.33	-22.65	135.53
	10.85	115.33	48.15	87.84	-26.46	160.17
	12.69	133.07	55.65	101.36	-30.26	184.82
14.54	150.81	63.14	114.87	-34.06	209.46	
16.39	168.56	70.64	128.39	-37.86	234.10	
1.80	20.48	181.87	77.66	138.59	-36.69	252.57
	18.46	162.72	69.55	124.00	-32.63	225.99
	16.44	143.58	61.44	109.42	-28.56	199.40
	14.42	124.43	53.34	94.83	-24.50	172.81
	12.40	105.29	45.23	80.24	-20.43	146.23
	10.38	86.15	37.12	65.65	-16.37	119.64
	8.36	67.00	29.02	51.06	-12.30	93.05
	6.34	47.86	20.91	36.47	-8.24	66.47
	4.32	28.72	12.80	21.88	-4.17	39.88
	2.30	9.57	4.70	7.29	-0.10	13.29
	-0.25	8.79	3.13	6.70	-3.64	12.20
	1.60	26.36	10.57	20.09	-7.37	36.61
	3.46	43.93	18.01	33.48	-11.10	61.01

	5.31	61.50	25.45	46.87	-14.83	85.41
	7.17	79.07	32.89	60.26	-18.56	109.82
	9.02	96.65	40.34	73.65	-22.29	134.22
	10.88	114.22	47.78	87.04	-26.03	158.62
	12.73	131.79	55.22	100.43	-29.76	183.03
	14.59	149.36	62.66	113.82	-33.49	207.43
	16.44	166.93	70.10	127.21	-37.22	231.84
	20.58	180.15	77.11	137.36	-35.95	250.19
1.85	18.55	161.19	69.06	122.90	-31.96	223.85
	16.52	142.23	61.01	108.44	-27.97	197.52
	14.49	123.26	52.97	93.98	-23.98	171.18
	12.46	104.30	44.92	79.52	-19.99	144.84
	10.44	85.34	36.87	65.06	-16.00	118.51
	8.41	66.37	28.82	50.61	-12.01	92.17
	6.38	47.41	20.77	36.15	-8.02	65.84
	4.35	28.45	12.73	21.69	-4.03	39.50
	2.32	9.48	4.68	7.23	-0.04	13.17
	-0.27	8.71	3.10	6.64	-3.63	12.09
	1.60	26.12	10.49	19.92	-7.30	36.28
	3.46	43.54	17.88	33.20	-10.96	60.46
	5.32	60.95	25.27	46.47	-14.63	84.65
	7.18	78.37	32.66	59.75	-18.29	108.83
	9.05	95.78	40.05	73.03	-21.95	133.02
	10.91	113.20	47.44	86.31	-25.62	157.20
	12.77	130.61	54.83	99.59	-29.28	181.39
	14.64	148.03	62.22	112.87	-32.95	205.57
	16.50	165.44	69.61	126.14	-36.61	229.76
	20.69	178.57	76.61	136.22	-35.24	247.97
	18.65	159.77	68.62	121.88	-31.32	221.87
	16.61	140.98	60.62	107.54	-27.40	195.77
	14.57	122.18	52.63	93.20	-23.48	169.67
	12.54	103.38	44.63	78.86	-19.56	143.56
	10.50	84.59	36.64	64.52	-15.64	117.46
	8.46	65.79	28.65	50.19	-11.72	91.36
	6.42	46.99	20.65	35.85	-7.80	65.26
	4.38	28.20	12.66	21.51	-3.89	39.15
1.90	2.35	9.40	4.66	7.17	0.03	13.05
	-0.28	8.64	3.06	6.59	-3.63	11.99
	1.59	25.91	10.41	19.76	-7.23	35.98
	3.46	43.18	17.75	32.94	-10.83	59.96
	5.33	60.45	25.10	46.11	-14.43	83.94
	7.21	77.72	32.45	59.29	-18.03	107.93
	9.08	94.99	39.79	72.46	-21.63	131.91
	10.95	112.26	47.14	85.64	-25.23	155.90
	12.82	129.53	54.48	98.81	-28.83	179.88

	14.70	146.81	61.83	111.99	-32.43	203.86
	16.57	164.08	69.17	125.16	-36.04	227.85
1.95	20.81	177.10	76.16	135.17	-34.55	245.92
	18.76	158.46	68.22	120.94	-30.70	220.04
	16.71	139.82	60.27	106.71	-26.85	194.15
	14.66	121.17	52.32	92.48	-23.00	168.26
	12.61	102.53	44.38	78.25	-19.15	142.38
	10.57	83.89	36.43	64.03	-15.30	116.49
	8.52	65.25	28.49	49.80	-11.45	90.60
	6.47	46.61	20.54	35.57	-7.60	64.72
	4.42	27.96	12.59	21.34	-3.75	38.83
	2.37	9.32	4.65	7.11	0.10	12.94
	-0.30	8.57	3.03	6.54	-3.63	11.90
	1.58	25.71	10.34	19.62	-7.17	35.70
	3.47	42.85	17.64	32.70	-10.71	59.50
	5.35	59.99	24.95	45.78	-14.25	83.30
	7.23	77.13	32.25	58.86	-17.79	107.10
	9.12	94.26	39.56	71.94	-21.33	130.90
	11.00	111.40	46.86	85.02	-24.87	154.70
	12.88	128.54	54.17	98.11	-28.41	178.49
	14.76	145.68	61.48	111.19	-31.95	202.29
	16.65	162.82	68.78	124.27	-35.49	226.09
2.00	20.93	175.74	75.76	134.19	-33.89	244.02
	18.87	157.24	67.85	120.07	-30.11	218.33
	16.81	138.74	59.95	105.94	-26.33	192.65
	14.75	120.24	52.05	91.82	-22.54	166.96
	12.70	101.74	44.15	77.69	-18.76	141.27
	10.64	83.24	36.25	63.57	-14.97	115.59
	8.58	64.75	28.34	49.44	-11.19	89.90
	6.52	46.25	20.44	35.31	-7.40	64.22
	4.46	27.75	12.54	21.19	-3.62	38.53
	2.40	9.25	4.64	7.06	0.16	12.84
	-0.31	8.51	3.00	6.50	-3.63	11.81
	1.58	25.53	10.27	19.49	-7.11	35.44
	3.47	42.54	17.54	32.49	-10.59	59.07
	5.37	59.56	24.81	45.48	-14.08	82.70
	7.26	76.58	32.08	58.47	-17.56	106.33
	9.16	93.60	39.35	71.47	-21.04	129.96
	11.05	110.61	46.62	84.46	-24.52	153.59
	12.94	127.63	53.89	97.46	-28.00	177.22
	14.84	144.65	61.16	110.45	-31.48	200.85
	16.73	161.66	68.43	123.45	-34.96	224.48
2.05	21.06	174.47	75.39	133.29	-33.26	242.25
	18.99	156.11	67.53	119.26	-29.54	216.75
	16.92	137.74	59.66	105.23	-25.82	191.25

	14.85	119.38	51.80	91.20	-22.10	165.75
	12.78	101.01	43.94	77.17	-18.38	140.25
	10.71	82.64	36.08	63.14	-14.66	114.75
	8.64	64.28	28.21	49.11	-10.93	89.25
	6.57	45.91	20.35	35.08	-7.21	63.75
	4.50	27.55	12.49	21.05	-3.49	38.25
	2.43	9.18	4.63	7.02	0.23	12.75
	-0.33	8.45	2.98	6.46	-3.64	11.74
	1.58	25.36	10.21	19.37	-7.06	35.21
	3.48	42.26	17.45	32.29	-10.49	58.68
	5.39	59.17	24.69	45.20	-13.91	82.15
	7.29	76.07	31.93	58.12	-17.34	105.63
	9.20	92.98	39.16	71.03	-20.76	129.10
	11.11	109.89	46.40	83.95	-24.19	152.57
	13.01	126.79	53.64	96.87	-27.61	176.05
	14.92	143.70	60.88	109.78	-31.04	199.52
	16.82	160.60	68.11	122.70	-34.46	222.99
2.10	21.20	173.29	75.06	132.46	-32.65	240.61
	19.12	155.05	67.23	118.52	-28.99	215.28
	17.04	136.81	59.40	104.57	-25.33	189.95
	14.95	118.57	51.58	90.63	-21.67	164.62
	12.87	100.33	43.75	76.69	-18.01	139.30
	10.79	82.09	35.93	62.74	-14.35	113.97
	8.71	63.85	28.10	48.80	-10.69	88.64
	6.62	45.60	20.27	34.86	-7.03	63.32
	4.54	27.36	12.45	20.91	-3.37	37.99
	2.46	9.12	4.62	6.97	0.29	12.66
	-0.34	8.40	2.95	6.42	-3.64	11.66
	1.57	25.20	10.16	19.26	-7.01	34.99
	3.49	42.01	17.37	32.11	-10.38	58.32
	5.41	58.81	24.58	44.95	-13.76	81.65
	7.33	75.61	31.79	57.79	-17.13	104.98
	9.25	92.41	39.00	70.64	-20.50	128.31
	11.17	109.22	46.21	83.48	-23.87	151.64
13.09	126.02	53.41	96.32	-27.24	174.97	
15.00	142.82	60.62	109.17	-30.61	198.29	
16.92	159.62	67.83	122.01	-33.98	221.62	
2.15	21.35	172.20	74.76	131.69	-32.06	239.07
	19.25	154.07	66.96	117.83	-28.46	213.91
	17.16	135.95	59.17	103.97	-24.86	188.74
	15.06	117.82	51.38	90.10	-21.26	163.58
	12.96	99.69	43.58	76.24	-17.65	138.41
	10.87	81.57	35.79	62.38	-14.05	113.25
	8.77	63.44	28.00	48.52	-10.45	88.08
	6.68	45.32	20.20	34.66	-6.85	62.91

	4.58	27.19	12.41	20.79	-3.25	37.75
	2.49	9.06	4.62	6.93	0.35	12.58
	-0.36	8.35	2.93	6.39	-3.65	11.60
	1.57	25.06	10.11	19.17	-6.97	34.79
	3.51	41.77	17.30	31.94	-10.29	57.99
	5.44	58.48	24.48	44.72	-13.61	81.19
	7.37	75.18	31.66	57.50	-16.93	104.38
	9.30	91.89	38.85	70.27	-20.25	127.58
	11.23	108.60	46.03	83.05	-23.57	150.77
	13.16	125.31	53.21	95.83	-26.89	173.97
	15.10	142.01	60.40	108.61	-30.21	197.17
	17.03	158.72	67.58	121.38	-33.53	220.36
	21.50	171.18	74.49	130.98	-31.49	237.65
2.20	19.39	153.16	66.73	117.19	-27.94	212.63
	17.28	135.14	58.96	103.40	-24.40	187.62
	15.17	117.12	51.20	89.62	-20.85	162.60
	13.06	99.11	43.43	75.83	-17.31	137.59
	10.95	81.09	35.67	62.04	-13.76	112.57
	8.84	63.07	27.90	48.25	-10.22	87.56
	6.73	45.05	20.14	34.47	-6.67	62.54
	4.62	27.03	12.38	20.68	-3.13	37.52
	2.51	9.01	4.61	6.89	0.42	12.51
	-0.37	8.31	2.91	6.36	-3.65	11.54
	1.57	24.93	10.07	19.08	-6.92	34.61
	3.52	41.55	17.23	31.79	-10.19	57.68
	5.46	58.17	24.39	44.51	-13.46	80.76
	7.41	74.79	31.55	57.23	-16.73	103.83
	9.36	91.41	38.72	69.94	-20.00	126.91
	11.30	108.03	45.88	82.66	-23.27	149.98
	13.25	124.65	53.04	95.38	-26.54	173.05
15.19	141.27	60.20	108.09	-29.81	196.13	
17.14	157.89	67.36	120.81	-33.08	219.20	
2.25	22.45	171.03	75.04	131.11	-30.14	237.39
	20.24	153.02	67.22	117.31	-26.74	212.40
	18.04	135.02	59.40	103.51	-23.33	187.42
	15.83	117.02	51.58	89.71	-19.92	162.43
	13.62	99.02	43.76	75.91	-16.52	137.44
	11.41	81.01	35.94	62.10	-13.11	112.45
	9.21	63.01	28.12	48.30	-9.70	87.46
	7.00	45.01	20.29	34.50	-6.29	62.47
	4.79	27.00	12.47	20.70	-2.89	37.48
	2.59	9.00	4.65	6.90	0.52	12.49
	-0.35	8.31	2.93	6.37	-3.62	11.53
	1.69	24.93	10.15	19.11	-6.77	34.60
	3.73	41.54	17.36	31.85	-9.91	57.66

	5.76	58.16	24.58	44.59	-13.06	80.73
	7.80	74.78	31.80	57.32	-16.20	103.79
	9.84	91.39	39.02	70.06	-19.35	126.86
	11.87	108.01	46.24	82.80	-22.49	149.92
	13.91	124.63	53.46	95.54	-25.64	172.99
	15.95	141.24	60.68	108.28	-28.78	196.05
	17.99	157.86	67.90	121.02	-31.93	219.12
2.30	22.62	170.15	74.84	130.51	-29.60	236.17
	20.40	152.24	67.04	116.77	-26.25	211.31
	18.17	134.33	59.24	103.03	-22.89	186.45
	15.95	116.42	51.44	89.29	-19.54	161.59
	13.73	98.51	43.64	75.56	-16.19	136.73
	11.51	80.60	35.85	61.82	-12.83	111.87
	9.28	62.69	28.05	48.08	-9.48	87.01
	7.06	44.78	20.25	34.34	-6.13	62.15
	4.84	26.87	12.45	20.61	-2.77	37.29
	2.62	8.96	4.65	6.87	0.58	12.43
	-0.36	8.27	2.91	6.34	-3.63	11.48
	1.69	24.82	10.11	19.03	-6.73	34.44
	3.74	41.36	17.31	31.72	-9.83	57.41
	5.80	57.90	24.52	44.41	-12.93	80.37
	7.85	74.45	31.72	57.10	-16.02	103.33
	9.90	90.99	38.92	69.79	-19.12	126.29
	11.95	107.53	46.13	82.48	-22.22	149.25
	14.01	124.08	53.33	95.17	-25.32	172.22
	16.06	140.62	60.53	107.86	-28.41	195.18
	18.11	157.16	67.74	120.55	-31.51	218.14
2.35	22.79	169.33	74.66	129.95	-29.07	235.02
	20.55	151.51	66.88	116.27	-25.77	210.28
	18.32	133.68	59.10	102.59	-22.47	185.54
	16.08	115.86	51.32	88.91	-19.17	160.81
	13.84	98.04	43.54	75.23	-15.87	136.07
	11.60	80.21	35.77	61.55	-12.56	111.33
	9.36	62.39	27.99	47.88	-9.26	86.59
	7.12	44.56	20.21	34.20	-5.96	61.85
	4.89	26.74	12.43	20.52	-2.66	37.11
	2.65	8.91	4.65	6.84	0.64	12.37
	-0.38	8.24	2.89	6.32	-3.64	11.43
	1.69	24.71	10.08	18.97	-6.69	34.30
	3.76	41.19	17.27	31.61	-9.75	57.17
	5.83	57.67	24.46	44.25	-12.80	80.04
	7.90	74.14	31.65	56.90	-15.85	102.90
	9.97	90.62	38.84	69.54	-18.90	125.77
	12.04	107.10	46.03	82.18	-21.95	148.64
	14.11	123.57	53.22	94.83	-25.00	171.51

	16.18	140.05	60.41	107.47	-28.06	194.38
	18.25	156.52	67.60	120.12	-31.11	217.24
2.40	22.97	168.57	74.50	129.43	-28.56	233.96
	20.72	150.83	66.74	115.81	-25.30	209.33
	18.46	133.09	58.98	102.18	-22.05	184.70
	16.21	115.34	51.22	88.56	-18.80	160.08
	13.95	97.60	43.46	74.93	-15.55	135.45
	11.70	79.85	35.70	61.31	-12.30	110.82
	9.44	62.11	27.94	47.68	-9.05	86.19
	7.19	44.36	20.18	34.06	-5.80	61.57
	4.93	26.62	12.42	20.44	-2.55	36.94
	2.68	8.87	4.66	6.81	0.70	12.31
	-0.39	8.21	2.87	6.30	-3.65	11.39
	1.69	24.62	10.05	18.90	-6.66	34.17
	3.78	41.04	17.23	31.51	-9.67	56.95
	5.87	57.45	24.41	44.11	-12.68	79.73
	7.95	73.86	31.59	56.71	-15.68	102.51
	10.04	90.28	38.77	69.32	-18.69	125.29
	12.12	106.69	45.94	81.92	-21.70	148.08
	14.21	123.11	53.12	94.52	-24.70	170.86
	16.30	139.52	60.30	107.12	-27.71	193.64
	18.38	155.94	67.48	119.73	-30.72	216.42
2.45	23.16	167.87	74.36	128.95	-28.05	232.96
	20.88	150.20	66.62	115.38	-24.85	208.44
	18.61	132.53	58.87	101.81	-21.65	183.92
	16.34	114.86	51.13	88.23	-18.45	159.40
	14.07	97.19	43.38	74.66	-15.25	134.87
	11.80	79.52	35.64	61.08	-12.05	110.35
	9.52	61.85	27.89	47.51	-8.84	85.83
	7.25	44.18	20.15	33.94	-5.64	61.31
	4.98	26.51	12.40	20.36	-2.44	36.78
	2.71	8.84	4.66	6.79	0.76	12.26
	-0.40	8.18	2.86	6.28	-3.67	11.35
	1.70	24.54	10.03	18.85	-6.63	34.05
	3.80	40.89	17.20	31.41	-9.59	56.75
	5.90	57.25	24.37	43.98	-12.56	79.45
	8.01	73.61	31.53	56.55	-15.52	102.15
	10.11	89.97	38.70	69.11	-18.48	124.85
	12.21	106.32	45.87	81.68	-21.45	147.56
	14.32	122.68	53.04	94.24	-24.41	170.26
	16.42	139.04	60.21	106.81	-27.37	192.96
	18.52	155.40	67.38	119.37	-30.34	215.66
2.50	24.17	168.04	75.08	129.34	-26.73	233.16
	21.80	150.35	67.26	115.73	-23.67	208.62
	19.42	132.66	59.44	102.11	-20.60	184.07

	17.04	114.97	51.62	88.50	-17.53	159.53
	14.67	97.29	43.80	74.88	-14.47	134.99
	12.29	79.60	35.98	61.27	-11.40	110.44
	9.91	61.91	28.16	47.65	-8.34	85.90
	7.54	44.22	20.34	34.04	-5.27	61.36
	5.16	26.53	12.53	20.42	-2.20	36.81
	2.78	8.84	4.71	6.81	0.86	12.27
	-0.38	8.19	2.88	6.31	-3.64	11.37
	1.82	24.58	10.13	18.92	-6.48	34.11
	4.03	40.97	17.37	31.53	-9.32	56.84
	6.23	57.35	24.61	44.15	-12.16	79.58
	8.43	73.74	31.86	56.76	-15.00	102.32
	10.63	90.12	39.10	69.37	-17.84	125.05
	12.83	106.51	46.34	81.98	-20.68	147.79
	15.03	122.90	53.58	94.60	-23.52	170.53
	17.23	139.28	60.83	107.21	-26.36	193.26
	19.44	155.67	68.07	119.82	-29.20	216.00
	24.37	167.43	74.99	128.95	-26.24	232.31
	21.98	149.81	67.18	115.37	-23.23	207.86
	19.58	132.18	59.37	101.80	-20.21	183.40
	17.19	114.56	51.56	88.23	-17.19	158.95
	14.79	96.93	43.75	74.65	-14.17	134.49
	12.40	79.31	35.95	61.08	-11.15	110.04
	10.00	61.69	28.14	47.51	-8.13	85.59
	7.61	44.06	20.33	33.93	-5.12	61.13
	5.21	26.44	12.52	20.36	-2.10	36.68
	2.82	8.81	4.71	6.79	0.92	12.23
	-0.39	8.17	2.87	6.29	-3.65	11.34
	1.83	24.51	10.11	18.88	-6.45	34.01
	4.05	40.85	17.35	31.46	-9.25	56.68
	6.27	57.19	24.58	44.04	-12.05	79.35
	8.49	73.53	31.82	56.63	-14.84	102.02
	10.71	89.87	39.06	69.21	-17.64	124.69
	12.93	106.21	46.30	81.79	-20.44	147.36
	15.15	122.55	53.54	94.38	-23.24	170.03
	17.37	138.88	60.78	106.96	-26.04	192.70
	19.59	155.22	68.02	119.54	-28.83	215.37
	24.57	166.87	74.91	128.58	-25.77	231.52
	22.16	149.30	67.11	115.05	-22.79	207.15
	19.75	131.74	59.31	101.51	-19.82	182.78
	17.33	114.17	51.52	87.98	-16.85	158.41
	14.92	96.61	43.72	74.44	-13.88	134.04
	12.50	79.04	35.92	60.91	-10.91	109.67
	10.09	61.48	28.12	47.37	-7.94	85.30
	7.68	43.91	20.32	33.84	-4.96	60.93

	5.26	26.35	12.52	20.30	-1.99	36.56
	2.85	8.78	4.72	6.77	0.98	12.19
	-0.40	8.15	2.86	6.28	-3.66	11.31
	1.84	24.44	10.09	18.84	-6.42	33.92
	4.07	40.74	17.33	31.39	-9.18	56.53
	6.31	57.04	24.56	43.95	-11.94	79.14
	8.55	73.33	31.80	56.51	-14.69	101.75
	10.79	89.63	39.03	69.06	-17.45	124.36
	13.03	105.93	46.27	81.62	-20.21	146.97
	15.27	122.22	53.51	94.18	-22.96	169.58
	17.51	138.52	60.74	106.74	-25.72	192.19
	19.75	154.82	67.98	119.29	-28.48	214.80
	24.78	166.35	74.86	128.25	-25.30	230.78
2.65	22.35	148.84	67.06	114.75	-22.37	206.49
	19.91	131.33	59.27	101.25	-19.44	182.19
	17.48	113.82	51.48	87.75	-16.52	157.90
	15.05	96.31	43.69	74.25	-13.59	133.61
	12.61	78.80	35.90	60.75	-10.67	109.32
	10.18	61.29	28.10	47.25	-7.74	85.02
	7.75	43.78	20.31	33.75	-4.82	60.73
	5.32	26.27	12.52	20.25	-1.89	36.44
	2.88	8.76	4.73	6.75	1.04	12.15
	-0.42	8.13	2.84	6.27	-3.68	11.28
	1.84	24.39	10.08	18.80	-6.40	33.83
	4.10	40.64	17.31	31.33	-9.11	56.39
	6.36	56.90	24.55	43.87	-11.83	78.94
	8.62	73.16	31.78	56.40	-14.54	101.50
	10.88	89.42	39.02	68.94	-17.26	124.05
	13.14	105.67	46.25	81.47	-19.98	146.61
	15.40	121.93	53.49	94.00	-22.69	169.16
17.65	138.19	60.72	106.54	-25.41	191.72	
19.91	154.45	67.95	119.07	-28.13	214.27	
2.70	25.08	165.95	74.90	128.02	-24.75	230.21
	22.61	148.48	67.11	114.55	-21.88	205.98
	20.15	131.01	59.31	101.07	-19.01	181.75
	17.69	113.54	51.52	87.60	-16.13	157.51
	15.23	96.07	43.72	74.12	-13.26	133.28
	12.77	78.61	35.92	60.64	-10.39	109.05
	10.31	61.14	28.13	47.17	-7.52	84.81
	7.84	43.67	20.33	33.69	-4.65	60.58
	5.38	26.20	12.54	20.21	-1.77	36.35
	2.92	8.73	4.74	6.74	1.10	12.12
	-0.43	8.12	2.84	6.26	-3.69	11.26
	1.86	24.35	10.08	18.78	-6.36	33.77
	4.15	40.58	17.32	31.30	-9.03	56.29

	6.44	56.81	24.57	43.83	-11.69	78.81
	8.72	73.04	31.81	56.35	-14.36	101.32
	11.01	89.27	39.05	68.87	-17.03	123.84
	13.30	105.50	46.30	81.39	-19.70	146.35
	15.58	121.73	53.54	93.91	-22.37	168.87
	17.87	137.96	60.78	106.43	-25.04	191.38
	20.16	154.19	68.02	118.95	-27.71	213.90
	25.29	165.50	74.88	127.74	-24.30	229.58
2.75	22.81	148.08	67.08	114.30	-21.47	205.41
	20.33	130.66	59.29	100.85	-18.64	181.24
	17.84	113.23	51.50	87.40	-15.81	157.08
	15.36	95.81	43.71	73.96	-12.98	132.91
	12.88	78.39	35.92	60.51	-10.16	108.75
	10.40	60.97	28.13	47.06	-7.33	84.58
	7.92	43.55	20.34	33.62	-4.50	60.41
	5.44	26.13	12.54	20.17	-1.67	36.25
	2.95	8.71	4.75	6.72	1.16	12.08
	-0.44	8.10	2.83	6.25	-3.70	11.24
	1.87	24.30	10.07	18.75	-6.33	33.71
	4.18	40.50	17.32	31.26	-8.96	56.18
	6.48	56.69	24.56	43.76	-11.59	78.65
	8.79	72.89	31.81	56.26	-14.22	101.12
	11.10	89.09	39.05	68.77	-16.85	123.59
	13.41	105.29	46.29	81.27	-19.48	146.06
	15.71	121.49	53.54	93.77	-22.11	168.53
	18.02	137.69	60.78	106.28	-24.74	191.00
	20.33	153.88	68.03	118.78	-27.37	213.47
	25.51	165.08	74.86	127.49	-23.85	228.99
	23.00	147.70	67.07	114.07	-21.07	204.88
	20.50	130.33	59.29	100.65	-18.28	180.78
	18.00	112.95	51.50	87.23	-15.50	156.67
	15.50	95.57	43.71	73.81	-12.71	132.57
	13.00	78.20	35.92	60.39	-9.93	108.47
	10.49	60.82	28.13	46.97	-7.14	84.36
	7.99	43.44	20.34	33.55	-4.36	60.26
	5.49	26.07	12.55	20.13	-1.57	36.16
2.80	2.99	8.69	4.76	6.71	1.21	12.05
	-0.45	8.08	2.82	6.24	-3.72	11.21
	1.88	24.25	10.06	18.73	-6.31	33.64
	4.20	40.42	17.31	31.22	-8.90	56.07
	6.53	56.59	24.56	43.71	-11.49	78.50
	8.86	72.76	31.81	56.19	-14.09	100.93
	11.19	88.93	39.05	68.68	-16.68	123.36
	13.52	105.10	46.30	81.17	-19.27	145.79
	15.85	121.27	53.55	93.66	-21.86	168.22

	18.17	137.44	60.80	106.14	-24.45	190.65
	20.50	153.61	68.05	118.63	-27.04	213.07
2.85	25.73	164.69	74.86	127.26	-23.41	228.44
	23.20	147.36	67.08	113.86	-20.67	204.39
	20.68	130.02	59.29	100.47	-17.93	180.35
	18.16	112.68	51.50	87.07	-15.19	156.30
	15.64	95.35	43.71	73.68	-12.44	132.25
	13.11	78.01	35.93	60.28	-9.70	108.21
	10.59	60.68	28.14	46.88	-6.96	84.16
	8.07	43.34	20.35	33.49	-4.22	60.12
	5.54	26.00	12.56	20.09	-1.47	36.07
	3.02	8.67	4.77	6.70	1.27	12.02
	-0.46	8.07	2.81	6.24	-3.74	11.20
	1.88	24.21	10.06	18.71	-6.29	33.59
	4.23	40.36	17.31	31.18	-8.84	55.98
	6.58	56.50	24.56	43.66	-11.40	78.37
	8.93	72.64	31.81	56.13	-13.95	100.76
	11.28	88.79	39.07	68.61	-16.50	123.15
	13.63	104.93	46.32	81.08	-19.06	145.54
	15.98	121.07	53.57	93.55	-21.61	167.94
	18.33	137.22	60.82	106.03	-24.17	190.33
	20.68	153.36	68.07	118.50	-26.72	212.72
2.90	25.95	164.33	74.88	127.05	-22.98	227.93
	23.40	147.04	67.09	113.67	-20.28	203.94
	20.86	129.74	59.30	100.30	-17.58	179.95
	18.32	112.44	51.51	86.93	-14.88	155.95
	15.77	95.14	43.73	73.55	-12.18	131.96
	13.23	77.84	35.94	60.18	-9.48	107.97
	10.69	60.54	28.15	46.81	-6.78	83.97
	8.14	43.25	20.36	33.43	-4.08	59.98
	5.60	25.95	12.57	20.06	-1.37	35.99
	3.06	8.65	4.79	6.69	1.33	12.00
	-0.48	8.06	2.80	6.23	-3.75	11.18
	1.89	24.18	10.05	18.69	-6.27	33.54
	4.26	40.30	17.31	31.16	-8.79	55.89
	6.63	56.42	24.57	43.62	-11.30	78.25
	9.00	72.54	31.83	56.08	-13.82	100.61
	11.37	88.66	39.08	68.54	-16.34	122.97
	13.74	104.78	46.34	81.00	-18.85	145.33
	16.11	120.90	53.60	93.47	-21.37	167.68
	18.48	137.02	60.86	105.93	-23.89	190.04
	20.85	153.14	68.11	118.39	-26.40	212.40
2.95	26.17	164.00	74.90	126.86	-22.55	227.46
	23.61	146.74	67.11	113.51	-19.90	203.52
	21.04	129.48	59.32	100.15	-17.24	179.57

	18.48	112.21	51.53	86.80	-14.58	155.63
	15.91	94.95	43.74	73.44	-11.92	131.69
	13.35	77.69	35.96	60.09	-9.26	107.74
	10.78	60.42	28.17	46.74	-6.60	83.80
	8.22	43.16	20.38	33.38	-3.94	59.86
	5.66	25.90	12.59	20.03	-1.28	35.91
	3.09	8.63	4.80	6.68	1.38	11.97
	-0.49	8.05	2.79	6.23	-3.77	11.16
	1.90	24.15	10.05	18.68	-6.25	33.49
	4.29	40.25	17.32	31.13	-8.73	55.82
	6.68	56.35	24.58	43.58	-11.21	78.15
	9.08	72.44	31.84	56.04	-13.69	100.48
	11.47	88.54	39.11	68.49	-16.17	122.80
	13.86	104.64	46.37	80.94	-18.65	145.13
	16.25	120.74	53.63	93.39	-21.13	167.46
	18.64	136.84	60.90	105.85	-23.61	189.79
	21.03	152.94	68.16	118.30	-26.09	212.11
	26.40	163.70	74.94	126.69	-22.13	227.03
	23.81	146.47	67.14	113.35	-19.52	203.13
	21.23	129.24	59.35	100.02	-16.90	179.23
	18.64	112.00	51.56	86.68	-14.28	155.33
	16.06	94.77	43.77	73.35	-11.66	131.44
	13.47	77.54	35.98	60.01	-9.04	107.54
	10.88	60.31	28.19	46.67	-6.42	83.64
	8.30	43.08	20.39	33.34	-3.80	59.74
	5.71	25.85	12.60	20.00	-1.18	35.85
	3.13	8.62	4.81	6.67	1.44	11.95
	-0.50	8.04	2.78	6.22	-3.79	11.15
	1.91	24.12	10.05	18.67	-6.23	33.45
	4.32	40.20	17.32	31.11	-8.68	55.75
	6.74	56.28	24.59	43.56	-11.12	78.05
	9.15	72.36	31.86	56.00	-13.56	100.35
	11.56	88.44	39.14	68.45	-16.01	122.66
	13.98	104.52	46.41	80.89	-18.45	144.96
	16.39	120.60	53.68	93.34	-20.90	167.26
	18.80	136.68	60.95	105.78	-23.34	189.56
	21.22	152.76	68.22	118.22	-25.78	211.86
	26.63	163.42	74.98	126.54	-21.72	226.63
	24.02	146.22	67.19	113.22	-19.14	202.77
	21.41	129.01	59.39	99.90	-16.56	178.92
	18.81	111.81	51.60	86.58	-13.98	155.06
	16.20	94.61	43.80	73.26	-11.40	131.20
	13.59	77.41	36.01	59.94	-8.82	107.35
	10.98	60.21	28.21	46.62	-6.24	83.49
	8.38	43.00	20.42	33.30	-3.66	59.64

	5.77	25.80	12.62	19.98	-1.08	35.78
	3.16	8.60	4.83	6.66	1.49	11.93
	-0.52	8.03	2.77	6.22	-3.80	11.14
	1.92	24.10	10.05	18.66	-6.21	33.42
	4.35	40.16	17.33	31.10	-8.62	55.69
	6.79	56.22	24.61	43.53	-11.03	77.97
	9.23	72.29	31.89	55.97	-13.44	100.25
	11.66	88.35	39.17	68.41	-15.85	122.52
	14.10	104.41	46.45	80.85	-18.26	144.80
	16.53	120.48	53.73	93.29	-20.67	167.08
	18.97	136.54	61.01	105.73	-23.07	189.36
	21.40	152.61	68.29	118.17	-25.48	211.63
	27.89	164.18	76.06	127.43	-20.28	227.64
	25.15	146.90	68.15	114.01	-17.85	203.68
	22.41	129.62	60.25	100.60	-15.42	179.72
	19.67	112.34	52.34	87.19	-12.99	155.76
	16.94	95.05	44.43	73.77	-10.56	131.79
	14.20	77.77	36.52	60.36	-8.12	107.83
	11.46	60.49	28.62	46.95	-5.69	83.87
	8.72	43.21	20.71	33.53	-3.26	59.91
	5.99	25.92	12.80	20.12	-0.83	35.94
	3.25	8.64	4.89	6.71	1.60	11.98
	-0.48	8.08	2.82	6.27	-3.77	11.20
	2.08	24.23	10.21	18.80	-6.04	33.59
	4.64	40.38	17.59	31.34	-8.32	55.98
	7.20	56.53	24.98	43.87	-10.59	78.37
	9.76	72.68	32.37	56.41	-12.86	100.77
	12.31	88.83	39.76	68.94	-15.14	123.16
	14.87	104.98	47.15	81.48	-17.41	145.55
	17.43	121.13	54.54	94.01	-19.68	167.94
	19.99	137.28	61.93	106.55	-21.95	190.34
	22.55	153.43	69.32	119.08	-24.23	212.73
3.10	28.13	163.96	76.13	127.32	-19.87	227.32
	25.37	146.70	68.22	113.92	-17.48	203.39
	22.61	129.44	60.31	100.52	-15.09	179.46
	19.85	112.18	52.39	87.11	-12.69	155.53
	17.09	94.92	44.48	73.71	-10.30	131.60
	14.33	77.66	36.56	60.31	-7.91	107.68
	11.57	60.41	28.65	46.91	-5.52	83.75
	8.81	43.15	20.74	33.51	-3.12	59.82
	6.05	25.89	12.82	20.10	-0.73	35.89
	3.28	8.63	4.91	6.70	1.66	11.96
	-0.49	8.07	2.81	6.27	-3.79	11.19
	2.09	24.21	10.21	18.80	-6.03	33.56
	4.67	40.35	17.61	31.33	-8.26	55.94
3.15						

	7.26	56.49	25.01	43.86	-10.50	78.32
	9.84	72.63	32.41	56.40	-12.74	100.69
	12.42	88.77	39.81	68.93	-14.98	123.07
	15.00	104.91	47.21	81.46	-17.21	145.44
	17.58	121.04	54.61	94.00	-19.45	167.82
	20.16	137.18	62.01	106.53	-21.69	190.20
	22.75	153.32	69.41	119.06	-23.92	212.57
	28.38	163.75	76.21	127.23	-19.46	227.02
3.20	25.59	146.51	68.29	113.84	-17.11	203.12
	22.81	129.28	60.37	100.44	-14.75	179.23
	20.03	112.04	52.45	87.05	-12.40	155.33
	17.24	94.80	44.53	73.66	-10.05	131.43
	14.46	77.57	36.61	60.27	-7.70	107.54
	11.67	60.33	28.69	46.87	-5.34	83.64
	8.89	43.09	20.77	33.48	-2.99	59.74
	6.10	25.86	12.85	20.09	-0.64	35.85
	3.32	8.62	4.92	6.70	1.72	11.95
	-0.50	8.06	2.80	6.27	-3.81	11.18
	2.10	24.19	10.22	18.80	-6.01	33.54
	4.71	40.32	17.63	31.33	-8.21	55.90
	7.31	56.45	25.04	43.86	-10.41	78.27
	9.92	72.58	32.45	56.40	-12.61	100.63
	12.52	88.71	39.87	68.93	-14.82	122.99
	15.13	104.84	47.28	81.46	-17.02	145.35
	17.74	120.97	54.69	93.99	-19.22	167.71
	20.34	137.10	62.10	106.52	-21.42	190.08
	22.95	153.23	69.52	119.06	-23.62	212.44
	28.63	163.56	76.30	127.15	-19.05	226.75
	25.82	146.35	68.38	113.77	-16.74	202.88
	23.01	129.13	60.45	100.38	-14.43	179.01
	20.20	111.91	52.52	87.00	-12.11	155.14
	17.40	94.70	44.59	73.61	-9.80	131.28
	14.59	77.48	36.66	60.23	-7.48	107.41
	11.78	60.26	28.73	46.84	-5.17	83.54
	8.97	43.04	20.80	33.46	-2.86	59.67
	6.16	25.83	12.87	20.08	-0.54	35.80
3.25	3.36	8.61	4.94	6.69	1.77	11.93
	-0.51	8.06	2.80	6.27	-3.83	11.18
	2.12	24.18	10.22	18.80	-5.99	33.53
	4.74	40.31	17.65	31.33	-8.16	55.88
	7.37	56.43	25.07	43.87	-10.33	78.23
	10.00	72.55	32.50	56.40	-12.49	100.58
	12.63	88.67	39.92	68.93	-14.66	122.93
	15.26	104.79	47.35	81.46	-16.83	145.28
	17.89	120.92	54.77	94.00	-18.99	167.63

	20.52	137.04	62.20	106.53	-21.16	189.98
	23.15	153.16	69.62	119.06	-23.33	212.33
3.30	29.94	164.46	77.47	128.15	-17.58	227.94
	27.00	147.15	69.42	114.66	-15.42	203.95
	24.06	129.84	61.37	101.17	-13.26	179.96
	21.11	112.53	53.32	87.68	-11.09	155.96
	18.17	95.22	45.27	74.19	-8.93	131.97
	15.22	77.90	37.22	60.70	-6.77	107.97
	12.28	60.59	29.17	47.21	-4.61	83.98
	9.34	43.28	21.12	33.72	-2.44	59.99
	6.39	25.97	13.06	20.23	-0.28	35.99
	3.45	8.66	5.01	6.74	1.88	12.00
	-0.47	8.11	2.85	6.32	-3.79	11.24
	2.28	24.33	10.39	18.96	-5.82	33.72
	5.04	40.55	17.93	31.60	-7.85	56.21
	7.80	56.78	25.48	44.24	-9.87	78.69
	10.56	73.00	33.02	56.88	-11.90	101.17
	13.32	89.22	40.56	69.52	-13.93	123.66
	16.08	105.44	48.11	82.16	-15.95	146.14
	18.84	121.66	55.65	94.80	-17.98	168.62
	21.59	137.88	63.19	107.44	-20.01	191.11
	24.35	154.10	70.74	120.08	-22.03	213.59
3.35	30.21	164.32	77.58	128.11	-17.17	227.74
	27.24	147.02	69.52	114.63	-15.05	203.77
	24.27	129.73	61.46	101.14	-12.93	179.79
	21.30	112.43	53.40	87.66	-10.80	155.82
	18.33	95.13	45.34	74.17	-8.68	131.85
	15.36	77.84	37.28	60.69	-6.56	107.88
	12.39	60.54	29.22	47.20	-4.43	83.90
	9.42	43.24	21.15	33.71	-2.31	59.93
	6.45	25.95	13.09	20.23	-0.18	35.96
	3.49	8.65	5.03	6.74	1.94	11.99
	-0.48	8.11	2.84	6.32	-3.81	11.24
	2.30	24.33	10.40	18.97	-5.80	33.72
	5.08	40.55	17.96	31.61	-7.79	56.19
	7.87	56.76	25.52	44.26	-9.78	78.67
	10.65	72.98	33.08	56.90	-11.78	101.15
	13.43	89.20	40.63	69.55	-13.77	123.63
	16.22	105.42	48.19	82.19	-15.76	146.10
	19.00	121.64	55.75	94.83	-17.75	168.58
	21.78	137.86	63.31	107.48	-19.74	191.06
	24.57	154.07	70.87	120.12	-21.73	213.53
3.40	30.47	164.20	77.71	128.09	-16.77	227.55
	27.48	146.91	69.63	114.60	-14.68	203.60
	24.48	129.63	61.56	101.12	-12.60	179.65

	21.49	112.35	53.49	87.64	-10.51	155.69
	18.49	95.06	45.41	74.15	-8.43	131.74
	15.50	77.78	37.34	60.67	-6.34	107.79
	12.51	60.49	29.27	47.19	-4.26	83.84
	9.51	43.21	21.20	33.71	-2.17	59.88
	6.52	25.93	13.12	20.22	-0.09	35.93
	3.52	8.64	5.05	6.74	2.00	11.98
	-0.50	8.11	2.84	6.33	-3.83	11.24
	2.31	24.32	10.41	18.98	-5.79	33.71
	5.12	40.54	17.99	31.63	-7.74	56.18
	7.93	56.76	25.56	44.28	-9.70	78.66
	10.74	72.97	33.13	56.93	-11.65	101.13
	13.55	89.19	40.71	69.58	-13.61	123.61
	16.36	105.41	48.28	82.23	-15.57	146.08
	19.17	121.62	55.86	94.88	-17.52	168.55
	21.98	137.84	63.43	107.53	-19.48	191.03
	24.79	154.06	71.01	120.18	-21.44	213.50
	30.84	164.19	77.94	128.17	-16.27	227.53
	27.81	146.90	69.84	114.68	-14.23	203.58
	24.78	129.62	61.74	101.19	-12.19	179.63
	21.75	112.34	53.65	87.69	-10.16	155.68
	18.72	95.06	45.55	74.20	-8.12	131.73
	15.69	77.77	37.46	60.71	-6.09	107.78
	12.66	60.49	29.36	47.22	-4.05	83.83
	9.63	43.21	21.26	33.73	-2.01	59.88
	6.60	25.92	13.17	20.24	0.02	35.93
	3.57	8.64	5.07	6.75	2.06	11.98
	-0.50	8.11	2.84	6.33	-3.84	11.24
	2.34	24.34	10.44	19.00	-5.75	33.73
	5.19	40.56	18.04	31.67	-7.67	56.21
	8.03	56.79	25.64	44.33	-9.58	78.70
	10.88	73.02	33.24	57.00	-11.49	101.18
	13.72	89.24	40.84	69.67	-13.40	123.67
	16.57	105.47	48.44	82.33	-15.31	146.15
	19.41	121.69	56.04	95.00	-17.22	168.64
	22.25	137.92	63.64	107.66	-19.13	191.13
	25.10	154.15	71.24	120.33	-21.05	213.61
	31.10	164.09	78.07	128.17	-15.87	227.39
	28.05	146.82	69.96	114.67	-13.87	203.45
	24.99	129.55	61.85	101.18	-11.87	179.51
	21.94	112.28	53.75	87.69	-9.87	155.58
	18.88	95.00	45.64	74.20	-7.87	131.64
	15.83	77.73	37.53	60.71	-5.88	107.71
	12.77	60.46	29.42	47.22	-3.88	83.77
	9.71	43.18	21.31	33.73	-1.88	59.84

	6.66	25.91	13.20	20.24	0.12	35.90
	3.60	8.64	5.09	6.75	2.11	11.97
	-0.51	8.11	2.83	6.34	-3.86	11.24
	2.36	24.34	10.45	19.01	-5.74	33.73
	5.23	40.57	18.07	31.69	-7.62	56.21
	8.10	56.79	25.69	44.36	-9.49	78.70
	10.97	73.02	33.31	57.03	-11.37	101.19
	13.84	89.25	40.92	69.71	-13.25	123.67
	16.71	105.47	48.54	82.38	-15.12	146.16
	19.58	121.70	56.16	95.06	-17.00	168.64
	22.45	137.93	63.78	107.73	-18.88	191.13
	25.32	154.16	71.39	120.40	-20.75	213.61
	31.37	164.02	78.22	128.17	-15.47	227.26
	28.29	146.75	70.09	114.68	-13.51	203.34
	25.21	129.49	61.97	101.19	-11.55	179.42
	22.13	112.22	53.85	87.70	-9.59	155.50
	19.05	94.96	45.72	74.21	-7.63	131.57
	15.97	77.69	37.60	60.71	-5.67	107.65
	12.88	60.43	29.48	47.22	-3.71	83.73
	9.80	43.16	21.36	33.73	-1.75	59.81
	6.72	25.90	13.23	20.24	0.21	35.88
	3.64	8.63	5.11	6.75	2.17	11.96
	-0.53	8.11	2.83	6.34	-3.88	11.24
	2.37	24.34	10.47	19.02	-5.72	33.73
	5.27	40.57	18.10	31.71	-7.57	56.22
	8.16	56.80	25.74	44.39	-9.41	78.71
	11.06	73.03	33.37	57.07	-11.25	101.19
	13.96	89.26	41.01	69.75	-13.09	123.68
	16.85	105.49	48.64	82.44	-14.93	146.17
	19.75	121.72	56.28	95.12	-16.78	168.66
	22.65	137.95	63.91	107.80	-18.62	191.14
	25.54	154.18	71.55	120.48	-20.46	213.63
3.55	31.65	163.95	78.36	128.19	-15.07	227.16
	28.54	146.69	70.23	114.70	-13.15	203.25
	25.43	129.43	62.09	101.20	-11.23	179.34
	22.32	112.18	53.95	87.71	-9.31	155.43
	19.22	94.92	45.82	74.22	-7.38	131.52
	16.11	77.66	37.68	60.72	-5.46	107.60
	13.00	60.40	29.54	47.23	-3.54	83.69
	9.89	43.14	21.40	33.73	-1.62	59.78
	6.79	25.89	13.27	20.24	0.30	35.87
	3.68	8.63	5.13	6.75	2.23	11.96
	-0.54	8.12	2.83	6.35	-3.90	11.25
	2.39	24.35	10.48	19.04	-5.71	33.74
	5.31	40.58	18.13	31.73	-7.52	56.23
3.60						

	8.23	56.81	25.79	44.42	-9.32	78.72
	11.15	73.05	33.44	57.11	-11.13	101.21
	14.08	89.28	41.10	69.81	-12.94	123.70
	17.00	105.51	48.75	82.50	-14.75	146.19
	19.92	121.74	56.40	95.19	-16.56	168.68
	22.85	137.98	64.06	107.88	-18.36	191.18
	25.77	154.21	71.71	120.57	-20.17	213.67
	31.92	163.90	78.52	128.22	-14.68	227.08
3.65	28.78	146.64	70.37	114.72	-12.80	203.17
	25.65	129.39	62.21	101.22	-10.91	179.27
	22.52	112.14	54.06	87.73	-9.03	155.37
	19.38	94.89	45.91	74.23	-7.14	131.47
	16.25	77.64	37.76	60.73	-5.26	107.56
	13.12	60.38	29.61	47.24	-3.37	83.66
	9.98	43.13	21.45	33.74	-1.49	59.76
	6.85	25.88	13.30	20.24	0.40	35.85
	3.72	8.63	5.15	6.75	2.28	11.95
	-0.55	8.12	2.82	6.35	-3.92	11.25
	2.40	24.36	10.50	19.05	-5.69	33.74
	5.35	40.59	18.17	31.76	-7.47	56.24
	8.30	56.83	25.84	44.46	-9.24	78.74
	11.25	73.07	33.51	57.16	-11.02	101.23
	14.20	89.30	41.19	69.86	-12.79	123.73
	17.15	105.54	48.86	82.57	-14.56	146.23
	20.10	121.78	56.53	95.27	-16.34	168.72
	23.05	138.02	64.20	107.97	-18.11	191.22
	26.00	154.25	71.87	120.67	-19.88	213.72
	32.19	163.86	78.68	128.25	-14.29	227.01
	29.03	146.61	70.51	114.75	-12.44	203.11
	25.87	129.36	62.34	101.25	-10.60	179.22
	22.71	112.11	54.17	87.75	-8.75	155.32
	19.55	94.86	46.01	74.25	-6.90	131.43
	16.39	77.62	37.84	60.75	-5.05	107.53
	13.23	60.37	29.67	47.25	-3.21	83.64
	10.07	43.12	21.50	33.75	-1.36	59.74
	6.91	25.87	13.34	20.25	0.49	35.84
	3.75	8.62	5.17	6.75	2.34	11.95
	-0.56	8.12	2.82	6.36	-3.94	11.25
	2.42	24.36	10.51	19.07	-5.68	33.75
	5.39	40.61	18.20	31.78	-7.42	56.26
	8.37	56.85	25.90	44.50	-9.16	78.76
	11.34	73.09	33.59	57.21	-10.90	101.26
	14.32	89.33	41.28	69.92	-12.64	123.77
	17.30	105.58	48.97	82.64	-14.38	146.27
	20.27	121.82	56.66	95.35	-16.12	168.77

	23.25	138.06	64.35	108.07	-17.86	191.28
	26.22	154.31	72.04	120.78	-19.60	213.78
3.75	32.47	163.83	78.84	128.30	-13.90	226.96
	29.28	146.58	70.66	114.79	-12.09	203.07
	26.10	129.34	62.47	101.29	-10.28	179.18
	22.91	112.09	54.29	87.78	-8.47	155.29
	19.72	94.85	46.11	74.28	-6.66	131.40
	16.54	77.60	37.92	60.77	-4.85	107.51
	13.35	60.36	29.74	47.27	-3.04	83.62
	10.16	43.11	21.56	33.76	-1.23	59.73
	6.98	25.87	13.37	20.26	0.58	35.84
	3.79	8.62	5.19	6.75	2.39	11.95
	-0.57	8.12	2.82	6.36	-3.96	11.26
	2.43	24.37	10.53	19.09	-5.67	33.77
	5.43	40.62	18.24	31.81	-7.37	56.28
	8.44	56.87	25.95	44.54	-9.08	78.79
	11.44	73.12	33.66	57.26	-10.78	101.30
	14.44	89.37	41.37	69.99	-12.49	123.81
	17.44	105.62	49.08	82.72	-14.20	146.32
	20.45	121.87	56.80	95.44	-15.90	168.83
	23.45	138.12	64.51	108.17	-17.61	191.34
	26.45	154.37	72.22	120.89	-19.31	213.86
3.80	32.75	163.81	79.01	128.35	-13.52	226.92
	29.53	146.57	70.81	114.84	-11.74	203.04
	26.32	129.32	62.61	101.33	-9.97	179.15
	23.11	112.08	54.41	87.82	-8.20	155.26
	19.89	94.84	46.21	74.31	-6.42	131.38
	16.68	77.59	38.01	60.80	-4.65	107.49
	13.47	60.35	29.81	47.29	-2.87	83.60
	10.26	43.11	21.61	33.78	-1.10	59.72
	7.04	25.86	13.41	20.27	0.67	35.83
	3.83	8.62	5.21	6.76	2.45	11.94
	-0.58	8.13	2.82	6.37	-3.98	11.26
	2.45	24.39	10.55	19.11	-5.65	33.78
	5.48	40.64	18.28	31.85	-7.33	56.30
	8.51	56.90	26.01	44.58	-9.00	78.82
	11.54	73.16	33.74	57.32	-10.67	101.34
	14.56	89.41	41.47	70.06	-12.34	123.86
	17.59	105.67	49.20	82.80	-14.01	146.38
	20.62	121.93	56.93	95.54	-15.69	168.90
	23.65	138.18	64.66	108.27	-17.36	191.42
	26.68	154.44	72.39	121.01	-19.03	213.95
3.85	34.32	165.09	80.47	129.71	-11.84	228.65
	30.94	147.72	72.12	116.06	-10.24	204.58
	27.57	130.34	63.77	102.40	-8.64	180.51

	24.19	112.96	55.42	88.75	-7.04	156.44
	20.81	95.58	47.06	75.09	-5.43	132.37
	17.44	78.20	38.71	61.44	-3.83	108.31
	14.06	60.82	30.36	47.79	-2.23	84.24
	10.69	43.45	22.01	34.13	-0.63	60.17
	7.31	26.07	13.65	20.48	0.97	36.10
	3.94	8.69	5.30	6.83	2.57	12.03
	-0.53	8.20	2.88	6.44	-3.94	11.35
	2.66	24.59	10.76	19.32	-5.45	34.06
	5.84	40.98	18.64	32.20	-6.96	56.76
	9.03	57.38	26.52	45.08	-8.47	79.47
	12.21	73.77	34.40	57.96	-9.98	102.17
	15.39	90.17	42.28	70.84	-11.49	124.88
	18.58	106.56	50.16	83.72	-13.00	147.58
	21.76	122.95	58.04	96.60	-14.51	170.28
	24.95	139.35	65.92	109.48	-16.02	192.99
	28.13	155.74	73.80	122.36	-17.53	215.69
	34.61	165.11	80.66	129.79	-11.45	228.66
	31.21	147.73	72.29	116.13	-9.88	204.59
	27.80	130.35	63.92	102.47	-8.32	180.52
	24.40	112.97	55.55	88.80	-6.75	156.45
	20.99	95.59	47.18	75.14	-5.19	132.38
	17.59	78.21	38.81	61.48	-3.63	108.31
	14.19	60.83	30.44	47.82	-2.06	84.24
	10.78	43.45	22.06	34.16	-0.50	60.17
	7.38	26.07	13.69	20.49	1.06	36.10
	3.97	8.69	5.32	6.83	2.63	12.03
	-0.54	8.20	2.88	6.45	-3.96	11.36
	2.67	24.61	10.78	19.34	-5.43	34.08
	5.89	41.01	18.68	32.24	-6.91	56.80
	9.10	57.42	26.58	45.13	-8.38	79.51
	12.31	73.82	34.48	58.03	-9.86	102.23
	15.53	90.22	42.39	70.92	-11.34	124.95
	18.74	106.63	50.29	83.82	-12.81	147.67
	21.95	123.03	58.19	96.72	-14.29	170.39
	25.16	139.44	66.09	109.61	-15.76	193.10
	28.38	155.84	73.99	122.51	-17.24	215.82
	34.90	165.13	80.86	129.88	-11.05	228.68
	31.47	147.75	72.47	116.21	-9.53	204.61
	28.04	130.37	64.08	102.54	-8.00	180.53
	24.61	112.99	55.69	88.86	-6.47	156.46
	21.17	95.60	47.30	75.19	-4.95	132.39
	17.74	78.22	38.91	61.52	-3.42	108.32
	14.31	60.84	30.52	47.85	-1.90	84.25
	10.88	43.46	22.12	34.18	-0.37	60.18

	7.45	26.07	13.73	20.51	1.16	36.11
	4.01	8.69	5.34	6.84	2.68	12.04
	-0.55	8.21	2.88	6.46	-3.98	11.37
	2.69	24.62	10.80	19.37	-5.42	34.10
	5.93	41.04	18.72	32.28	-6.86	56.83
	9.17	57.46	26.65	45.19	-8.30	79.57
	12.42	73.87	34.57	58.10	-9.74	102.30
	15.66	90.29	42.50	71.01	-11.18	125.03
	18.90	106.70	50.42	83.92	-12.62	147.76
	22.14	123.12	58.34	96.84	-14.07	170.50
	25.38	139.54	66.27	109.75	-15.51	193.23
	28.62	155.95	74.19	122.66	-16.95	215.96
	35.20	165.17	81.06	129.98	-10.66	228.71
4.00	31.74	147.78	72.65	116.29	-9.17	204.64
	28.28	130.39	64.24	102.61	-7.69	180.56
	24.82	113.01	55.83	88.93	-6.20	156.49
	21.35	95.62	47.42	75.25	-4.71	132.41
	17.89	78.24	39.01	61.57	-3.22	108.34
	14.43	60.85	30.60	47.89	-1.73	84.26
	10.97	43.46	22.19	34.20	-0.24	60.19
	7.51	26.08	13.78	20.52	1.25	36.11
	4.05	8.69	5.37	6.84	2.74	12.04
	-0.56	8.21	2.88	6.46	-4.00	11.37
	2.71	24.64	10.82	19.39	-5.40	34.12
	5.98	41.07	18.77	32.32	-6.81	56.87
	9.25	57.50	26.72	45.25	-8.22	79.62
	12.52	73.93	34.66	58.18	-9.62	102.37
	15.79	90.36	42.61	71.10	-11.03	125.12
	19.06	106.78	50.56	84.03	-12.44	147.87
	22.33	123.21	58.50	96.96	-13.85	170.62
25.60	139.64	66.45	109.89	-15.25	193.36	
28.87	156.07	74.40	122.82	-16.66	216.11	
4.05	36.83	166.55	82.60	131.42	-8.93	230.57
	33.20	149.02	74.03	117.59	-7.62	206.30
	29.57	131.49	65.46	103.75	-6.31	182.03
	25.94	113.96	56.89	89.92	-5.00	157.76
	22.31	96.42	48.32	76.09	-3.69	133.49
	18.68	78.89	39.74	62.25	-2.38	109.22
	15.05	61.36	31.17	48.42	-1.07	84.95
	11.42	43.83	22.60	34.58	0.24	60.68
	7.79	26.30	14.03	20.75	1.56	36.41
	4.16	8.77	5.46	6.92	2.87	12.14
	-0.50	8.29	2.94	6.54	-3.95	11.47
	2.93	24.86	11.05	19.62	-5.19	34.42
	6.36	41.44	19.15	32.70	-6.43	57.37

	9.79	58.01	27.25	45.78	-7.67	80.31
	13.22	74.59	35.36	58.85	-8.91	103.26
	16.66	91.16	43.46	71.93	-10.15	126.20
	20.09	107.74	51.56	85.01	-11.39	149.15
	23.52	124.31	59.67	98.09	-12.62	172.10
	26.95	140.89	67.77	111.17	-13.86	195.04
	30.38	157.46	75.87	124.25	-15.10	217.99
	37.14	166.61	82.82	131.54	-8.53	230.65
4.10	33.48	149.08	74.23	117.70	-7.26	206.37
	29.82	131.54	65.63	103.85	-5.99	182.09
	26.16	114.00	57.04	90.00	-4.71	157.81
	22.50	96.46	48.45	76.16	-3.44	133.53
	18.84	78.92	39.85	62.31	-2.17	109.25
	15.18	61.38	31.26	48.46	-0.90	84.98
	11.52	43.85	22.67	34.62	0.38	60.70
	7.86	26.31	14.08	20.77	1.65	36.42
	4.20	8.77	5.48	6.92	2.92	12.14
	-0.51	8.29	2.94	6.55	-3.97	11.48
	2.95	24.88	11.07	19.65	-5.17	34.45
	6.41	41.47	19.20	32.74	-6.38	57.41
	9.87	58.06	27.33	45.84	-7.58	80.38
	13.33	74.65	35.45	58.94	-8.78	103.35
	16.80	91.24	43.58	72.04	-9.99	126.31
	20.26	107.83	51.71	85.14	-11.19	149.28
	23.72	124.42	59.84	98.23	-12.40	172.24
	27.18	141.01	67.97	111.33	-13.60	195.21
	30.65	157.60	76.09	124.43	-14.80	218.17
	37.45	166.69	83.04	131.67	-8.13	230.73
	33.76	149.14	74.42	117.81	-6.90	206.45
	30.07	131.59	65.81	103.95	-5.66	182.16
	26.38	114.05	57.19	90.09	-4.43	157.87
	22.69	96.50	48.58	76.23	-3.20	133.58
	19.00	78.96	39.97	62.37	-1.96	109.30
	15.31	61.41	31.35	48.51	-0.73	85.01
	11.62	43.86	22.74	34.65	0.51	60.72
	7.93	26.32	14.12	20.79	1.74	36.43
	4.24	8.77	5.51	6.93	2.98	12.14
	-0.52	8.30	2.94	6.56	-3.99	11.49
	2.97	24.91	11.09	19.68	-5.16	34.48
	6.46	41.51	19.25	32.79	-6.33	57.47
	9.95	58.12	27.40	45.91	-7.49	80.45
	13.45	74.72	35.55	59.03	-8.66	103.44
	16.94	91.33	43.71	72.15	-9.83	126.42
	20.43	107.94	51.86	85.26	-11.00	149.41
	23.92	124.54	60.01	98.38	-12.17	172.40

	27.41	141.15	68.17	111.50	-13.34	195.38
	30.91	157.75	76.32	124.61	-14.51	218.37
4.20	37.88	166.88	83.38	131.92	-7.62	230.99
	34.15	149.31	74.73	118.03	-6.44	206.67
	30.41	131.75	66.08	104.15	-5.25	182.36
	26.68	114.18	57.43	90.26	-4.07	158.04
	22.95	96.61	48.78	76.37	-2.88	133.73
	19.22	79.05	40.13	62.49	-1.70	109.41
	15.49	61.48	31.48	48.60	-0.51	85.10
	11.75	43.92	22.83	34.72	0.67	60.79
	8.02	26.35	14.19	20.83	1.86	36.47
	4.29	8.78	5.54	6.94	3.04	12.16
	-0.53	8.32	2.95	6.57	-4.00	11.51
	3.01	24.95	11.14	19.72	-5.12	34.53
	6.54	41.58	19.33	32.87	-6.25	57.56
	10.07	58.22	27.52	46.02	-7.37	80.58
	13.61	74.85	35.71	59.17	-8.49	103.60
	17.14	91.48	43.90	72.32	-9.61	126.63
	20.68	108.12	52.09	85.47	-10.73	149.65
	24.21	124.75	60.28	98.62	-11.86	172.67
	27.74	141.38	68.47	111.76	-12.98	195.70
	31.28	158.02	76.66	124.91	-14.10	218.72
4.25	38.19	166.97	83.61	132.06	-7.23	231.10
	34.43	149.39	74.94	118.16	-6.08	206.77
	30.67	131.82	66.26	104.26	-4.93	182.44
	26.90	114.24	57.59	90.36	-3.78	158.12
	23.14	96.66	48.92	76.46	-2.64	133.79
	19.38	79.09	40.25	62.55	-1.49	109.47
	15.62	61.51	31.58	48.65	-0.34	85.14
	11.85	43.94	22.90	34.75	0.80	60.81
	8.09	26.36	14.23	20.85	1.95	36.49
	4.33	8.79	5.56	6.95	3.10	12.16
	-0.54	8.33	2.95	6.58	-4.02	11.52
	3.03	24.98	11.16	19.75	-5.11	34.57
	6.59	41.63	19.38	32.92	-6.20	57.61
	10.16	58.28	27.59	46.09	-7.28	80.66
	13.72	74.93	35.81	59.26	-8.37	103.71
	17.28	91.58	44.03	72.43	-9.46	126.75
	20.85	108.23	52.24	85.60	-10.54	149.80
	24.41	124.88	60.46	98.77	-11.63	172.84
	27.98	141.53	68.67	111.94	-12.72	195.89
	31.54	158.18	76.89	125.11	-13.80	218.93
4.30	38.50	167.06	83.84	132.21	-6.83	231.21
	34.71	149.48	75.14	118.29	-5.72	206.88
	30.92	131.89	66.45	104.37	-4.61	182.54

	27.13	114.30	57.75	90.46	-3.50	158.20
	23.33	96.72	49.06	76.54	-2.39	133.86
	19.54	79.13	40.36	62.62	-1.28	109.52
	15.75	61.55	31.67	48.71	-0.17	85.18
	11.95	43.96	22.97	34.79	0.94	60.85
	8.16	26.38	14.28	20.87	2.05	36.51
	4.37	8.79	5.58	6.96	3.15	12.17
	-0.55	8.33	2.95	6.60	-4.04	11.53
	3.05	25.00	11.19	19.79	-5.09	34.60
	6.64	41.67	19.43	32.98	-6.15	57.67
	10.24	58.34	27.67	46.17	-7.20	80.74
	13.83	75.01	35.91	59.36	-8.25	103.81
	17.43	91.67	44.16	72.55	-9.30	126.88
	21.02	108.34	52.40	85.74	-10.35	149.95
	24.62	125.01	60.64	98.93	-11.40	173.02
	28.21	141.68	68.88	112.12	-12.46	196.09
	31.81	158.35	77.12	125.31	-13.51	219.16
	38.82	167.16	84.07	132.36	-6.44	231.34
	35.00	149.57	75.36	118.42	-5.37	206.99
	31.17	131.97	66.64	104.49	-4.29	182.64
	27.35	114.37	57.92	90.56	-3.22	158.29
	23.53	96.78	49.20	76.63	-2.15	133.94
	19.70	79.18	40.48	62.70	-1.08	109.58
	15.88	61.59	31.76	48.76	0.00	85.23
	12.06	43.99	23.05	34.83	1.07	60.88
	8.23	26.39	14.33	20.90	2.14	36.53
	4.41	8.80	5.61	6.97	3.21	12.18
	-0.56	8.34	2.95	6.61	-4.06	11.55
	3.07	25.03	11.22	19.82	-5.08	34.64
	6.69	41.72	19.48	33.03	-6.10	57.73
	10.32	58.40	27.75	46.24	-7.11	80.83
	13.95	75.09	36.02	59.45	-8.13	103.92
	17.57	91.78	44.29	72.67	-9.15	127.01
	21.20	108.46	52.56	85.88	-10.16	150.10
	24.82	125.15	60.82	99.09	-11.18	173.20
	28.45	141.83	69.09	112.30	-12.20	196.29
	32.07	158.52	77.36	125.51	-13.21	219.38
	39.13	167.27	84.31	132.51	-6.04	231.48
	35.28	149.66	75.57	118.56	-5.01	207.11
	31.43	132.05	66.83	104.62	-3.98	182.75
	27.57	114.45	58.09	90.67	-2.94	158.38
	23.72	96.84	49.34	76.72	-1.91	134.02
	19.87	79.23	40.60	62.77	-0.87	109.65
	16.01	61.63	31.86	48.82	0.16	85.28
	12.16	44.02	23.12	34.87	1.20	60.92

	8.30	26.41	14.37	20.92	2.23	36.55
	4.45	8.80	5.63	6.97	3.27	12.18
	-0.57	8.35	2.95	6.62	-4.08	11.56
	3.09	25.06	11.24	19.85	-5.06	34.68
	6.75	41.76	19.54	33.09	-6.05	57.79
	10.40	58.47	27.83	46.32	-7.03	80.91
	14.06	75.17	36.13	59.55	-8.01	104.03
	17.72	91.88	44.42	72.79	-8.99	127.15
	21.37	108.58	52.72	86.02	-9.97	150.27
	25.03	125.29	61.01	99.26	-10.95	173.38
	28.68	141.99	69.30	112.49	-11.94	196.50
	32.34	158.70	77.60	125.72	-12.92	219.62
	39.45	167.38	84.55	132.67	-5.65	231.63
	35.57	149.76	75.79	118.71	-4.66	207.24
	31.68	132.14	67.02	104.74	-3.66	182.86
	27.80	114.53	58.25	90.78	-2.66	158.48
	23.91	96.91	49.49	76.81	-1.66	134.10
	20.03	79.29	40.72	62.85	-0.67	109.72
	16.14	61.67	31.96	48.88	0.33	85.34
	12.26	44.05	23.19	34.91	1.33	60.95
	8.38	26.43	14.42	20.95	2.33	36.57
	4.49	8.81	5.66	6.98	3.32	12.19
	-0.58	8.36	2.95	6.63	-4.10	11.57
	3.11	25.09	11.27	19.88	-5.05	34.72
	6.80	41.81	19.59	33.14	-6.00	57.86
	10.49	58.54	27.91	46.40	-6.94	81.00
	14.17	75.26	36.23	59.65	-7.89	104.15
	17.86	91.98	44.56	72.91	-8.84	127.29
	21.55	108.71	52.88	86.17	-9.78	150.43
	25.23	125.43	61.20	99.42	-10.73	173.58
	28.92	142.16	69.52	112.68	-11.68	196.72
	32.61	158.88	77.84	125.94	-12.62	219.86
	39.77	167.50	84.80	132.84	-5.26	231.78
	35.85	149.87	76.01	118.86	-4.30	207.38
	31.94	132.24	67.22	104.87	-3.34	182.99
	28.02	114.61	58.42	90.89	-2.38	158.59
	24.11	96.98	49.63	76.91	-1.42	134.19
	20.19	79.34	40.84	62.92	-0.46	109.79
	16.28	61.71	32.05	48.94	0.50	85.39
	12.36	44.08	23.26	34.96	1.46	61.00
	8.45	26.45	14.47	20.97	2.42	36.60
	4.53	8.82	5.68	6.99	3.38	12.20
	-0.59	8.37	2.95	6.64	-4.12	11.58
	3.13	25.12	11.30	19.92	-5.03	34.75
	6.85	41.86	19.65	33.20	-5.95	57.92

	10.57	58.60	28.00	46.48	-6.86	81.09
	14.29	75.35	36.34	59.76	-7.77	104.26
	18.00	92.09	44.69	73.04	-8.68	127.43
	21.72	108.84	53.04	86.31	-9.59	150.60
	25.44	125.58	61.39	99.59	-10.51	173.77
	29.16	142.33	69.74	112.87	-11.42	196.94
	32.88	159.07	78.08	126.15	-12.33	220.11

A2.1.8.- Cercha con 22 divisiones del cordón

En la Figura 8 se indica el cálculo de la cercha con el cordón dividido en 22 espacios para alturas desde 50cm hasta 450cm con intervalos de 5cm, con el software Matlab2018.

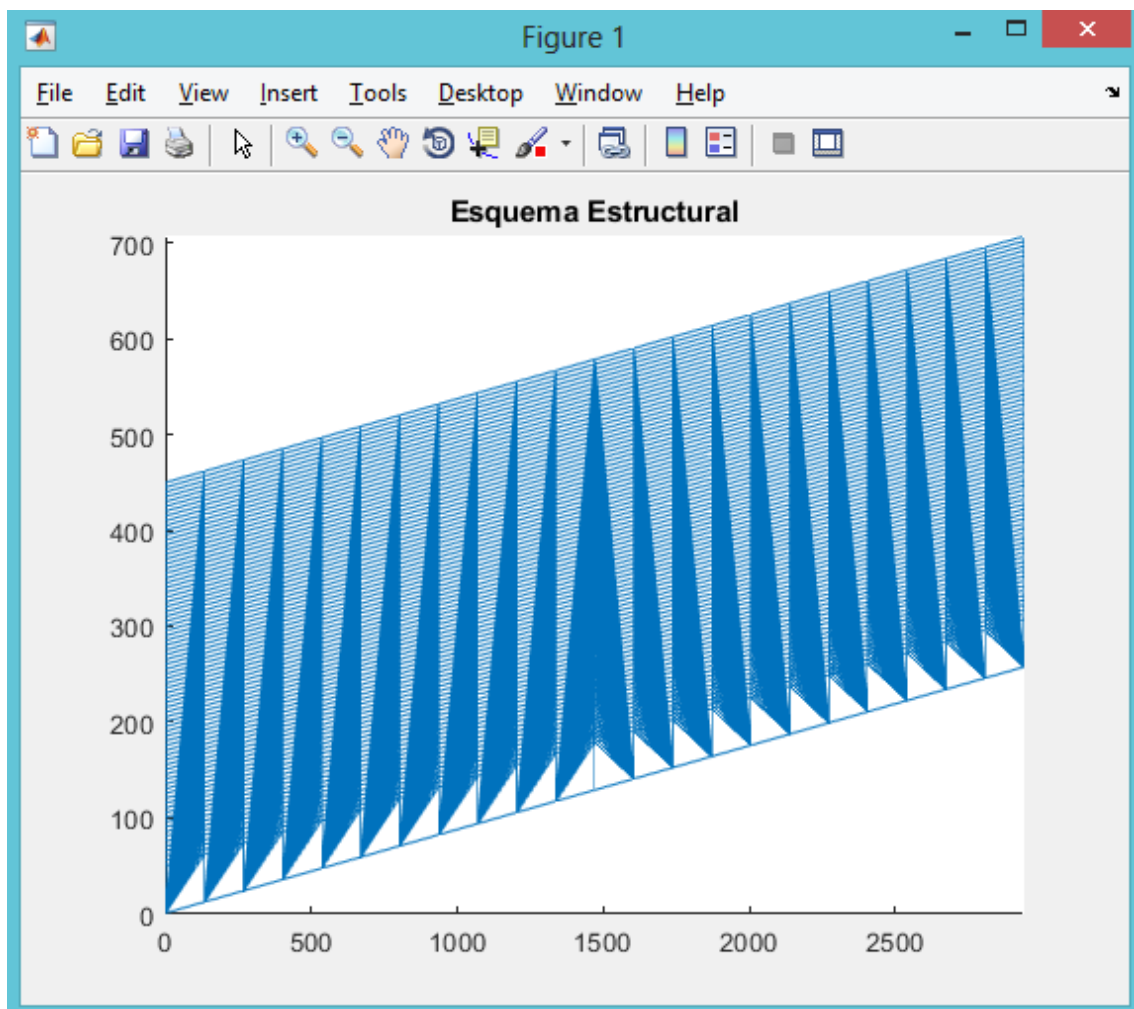


Figura 8. Cercha con el cordón dividido en 22 espacios (ejes en cm)

En la Tabla 29 se muestran las combinaciones de esfuerzos para el cordón inferior en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 29. Combinación de esfuerzos del cordón inferior - 22 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)
0.50	150.12	1150.53	504.67	882.52	-204.43	1596.91
	107.61	814.22	357.83	624.55	-142.62	1130.12
	69.49	513.31	226.42	393.74	-87.43	712.47
	35.78	247.81	110.42	190.08	-38.86	343.95
	6.47	17.70	9.84	13.58	3.09	24.57
	-177.00	-18.45	-135.77	-75.32	-245.68	38.42
	-336.31	-38.96	-257.97	-145.06	-466.79	67.14
	-460.21	-55.07	-353.01	-199.38	-638.76	89.24
	-548.71	-66.78	-420.89	-238.28	-761.60	104.71
	-601.82	-74.10	-461.63	-261.77	-835.31	113.58
	-619.52	-77.01	-475.20	-269.83	-859.87	115.82
	-619.52	-77.01	-475.20	-269.83	-859.87	115.82
	-601.82	-75.52	-461.63	-262.48	-835.31	111.44
	-548.71	-69.63	-420.89	-239.70	-761.60	100.45
	-460.21	-59.34	-353.01	-201.51	-638.76	82.84
	-336.31	-44.65	-257.97	-147.90	-466.79	58.61
	-177.00	-25.56	-135.77	-78.87	-245.68	27.76
	-2.07	17.70	5.58	13.58	-9.71	24.57
	25.83	247.81	105.44	190.08	-53.79	343.95
	58.12	513.31	220.73	393.74	-104.50	712.47
94.81	814.22	351.44	624.55	-161.82	1130.12	
135.90	1150.53	497.56	882.52	-225.75	1596.91	
0.55	120.33	1029.15	442.32	785.50	-201.66	1429.07
	86.52	728.32	313.71	555.89	-140.66	1011.34
	56.20	459.16	198.60	350.46	-86.20	637.59
	29.36	221.66	96.99	169.19	-38.27	307.80
	6.01	15.83	8.88	12.08	3.13	21.99
	-158.33	-13.86	-120.85	-65.73	-219.86	38.00
	-300.83	-30.25	-229.61	-126.83	-417.73	66.33
	-411.66	-43.16	-314.20	-174.44	-571.63	88.13
	-490.82	-52.58	-374.62	-208.55	-681.56	103.40
	-538.32	-58.51	-410.88	-229.15	-747.51	112.13
	-554.16	-60.97	-422.96	-236.26	-769.50	114.33
	-554.16	-60.97	-422.96	-236.26	-769.50	114.33
	-538.32	-59.93	-410.88	-229.87	-747.51	110.00
	-490.82	-55.42	-374.62	-209.97	-681.56	99.13
	-411.66	-47.42	-314.20	-176.57	-571.63	81.73
	-300.83	-35.94	-229.61	-129.68	-417.73	57.80
	-158.33	-20.97	-120.85	-69.28	-219.86	27.33
	-2.52	15.83	4.62	12.08	-9.67	21.99
	19.41	221.66	92.02	169.19	-53.20	307.80
	44.83	459.16	192.91	350.46	-103.26	637.59
73.73	728.32	307.31	555.89	-159.86	1011.34	

	106.11	1029.15	435.21	785.50	-222.99	1429.07
0.60	101.52	934.01	396.39	710.67	-193.34	1297.33
	73.21	660.99	281.20	502.94	-134.77	918.11
	47.81	416.71	178.11	317.07	-82.49	578.81
	25.31	201.17	87.10	153.07	-36.47	279.42
	5.72	14.37	8.18	10.93	3.26	19.96
	-143.69	-10.97	-109.33	-58.66	-199.59	36.72
	-273.02	-24.75	-207.73	-113.41	-379.22	63.90
	-373.60	-35.63	-284.27	-156.07	-518.93	84.80
	-445.45	-43.61	-338.94	-186.64	-618.73	99.43
	-488.56	-48.67	-371.74	-205.13	-678.60	107.78
	-502.93	-50.84	-382.67	-211.52	-698.56	109.85
	-502.93	-50.84	-382.67	-211.52	-698.56	109.85
	-488.56	-50.10	-371.74	-205.84	-678.60	105.64
	-445.45	-46.45	-338.94	-188.06	-618.73	95.16
	-373.60	-39.90	-284.27	-158.20	-518.93	78.40
	-273.02	-30.44	-207.73	-116.25	-379.22	55.37
	-143.69	-18.08	-109.33	-62.21	-199.59	26.05
	-2.81	14.37	3.91	10.93	-9.54	19.96
	15.36	201.17	82.12	153.07	-51.40	279.42
	36.44	416.71	172.42	317.07	-99.55	578.81
60.42	660.99	274.80	502.94	-153.97	918.11	
87.30	934.01	389.28	710.67	-214.67	1297.33	
0.65	90.11	858.02	362.02	651.86	-181.79	1191.94
	65.14	607.21	256.88	461.31	-126.60	843.52
	42.72	382.81	162.78	290.83	-77.33	531.79
	22.85	184.80	79.70	140.40	-33.99	256.72
	5.54	13.20	7.65	10.03	3.44	18.34
	-132.00	-9.22	-100.29	-53.37	-183.37	34.94
	-250.81	-21.42	-190.54	-103.36	-348.41	60.52
	-343.21	-31.07	-260.74	-142.32	-476.77	80.18
	-409.21	-38.16	-310.89	-170.25	-568.46	93.92
	-448.81	-42.71	-340.97	-187.15	-623.47	101.74
	-462.01	-44.69	-351.00	-193.02	-641.81	103.63
	-462.01	-44.69	-351.00	-193.02	-641.81	103.63
	-448.81	-44.13	-340.97	-187.86	-623.47	99.60
	-409.21	-41.01	-310.89	-171.67	-568.46	89.66
	-343.21	-35.33	-260.74	-144.45	-476.77	73.78
	-250.81	-27.11	-190.54	-106.20	-348.41	51.99
	-132.00	-16.32	-100.29	-56.93	-183.37	24.28
	-2.99	13.20	3.38	10.03	-9.36	18.34
	12.90	184.80	74.72	140.40	-48.92	256.72
	31.34	382.81	157.09	290.83	-94.40	531.79
52.34	607.21	250.49	461.31	-145.80	843.52	
75.89	858.02	354.91	651.86	-203.12	1191.94	

0.70	80.36	792.90	332.59	601.47	-171.88	1101.63
	58.23	561.13	236.05	425.65	-119.58	779.61
	38.37	353.76	149.64	268.35	-72.91	491.50
	20.75	170.78	73.36	129.55	-31.85	237.27
	5.39	12.20	7.19	9.25	3.59	16.95
	-121.98	-7.71	-92.53	-48.84	-169.48	33.42
	-231.77	-18.57	-175.81	-94.76	-322.01	57.62
	-317.16	-27.17	-240.59	-130.55	-440.65	76.22
	-378.15	-33.51	-286.85	-156.21	-525.39	89.19
	-414.75	-37.60	-314.61	-171.75	-576.24	96.55
	-426.95	-39.44	-323.87	-177.17	-593.18	98.29
	-426.95	-39.44	-323.87	-177.17	-593.18	98.29
	-414.75	-39.02	-314.61	-172.47	-576.24	94.42
	-378.15	-36.35	-286.85	-157.63	-525.39	84.92
	-317.16	-31.43	-240.59	-132.68	-440.65	69.82
	-231.77	-24.25	-175.81	-97.60	-322.01	49.09
	-121.98	-14.82	-92.53	-52.40	-169.48	22.75
	-3.14	12.20	2.93	9.25	-9.21	16.95
	10.80	170.78	68.38	129.55	-46.78	237.27
	26.99	353.76	143.96	268.35	-89.97	491.50
45.44	561.13	229.66	425.65	-138.78	779.61	
66.14	792.90	325.48	601.47	-193.21	1101.63	
0.75	76.58	741.15	311.76	562.48	-158.60	1029.68
	55.56	524.50	221.31	398.06	-110.19	728.70
	36.68	330.67	140.35	250.95	-66.99	459.40
	19.94	159.63	68.87	121.15	-28.99	221.78
	5.33	11.40	6.87	8.65	3.79	15.84
	-114.02	-7.13	-86.53	-45.64	-158.41	31.37
	-216.64	-17.46	-164.42	-88.67	-300.98	53.74
	-296.46	-25.65	-224.99	-122.22	-411.87	70.91
	-353.47	-31.71	-268.26	-146.28	-491.08	82.86
	-387.68	-35.63	-294.22	-160.86	-538.60	89.61
	-399.08	-37.41	-302.87	-165.96	-554.44	91.14
	-399.08	-37.41	-302.87	-165.96	-554.44	91.14
	-387.68	-37.05	-294.22	-161.57	-538.60	87.47
	-353.47	-34.55	-268.26	-147.70	-491.08	78.59
	-296.46	-29.92	-224.99	-124.35	-411.87	64.51
	-216.64	-23.15	-164.42	-91.51	-300.98	45.21
	-114.02	-14.24	-86.53	-49.19	-158.41	20.71
	-3.20	11.40	2.61	8.65	-9.00	15.84
	9.99	159.63	63.89	121.15	-43.92	221.78
	25.31	330.67	134.66	250.95	-84.05	459.40
42.76	524.50	214.91	398.06	-129.39	728.70	
62.36	741.15	304.65	562.48	-179.93	1029.68	
0.80	68.92	691.51	289.18	524.01	-151.34	960.85

	50.14	489.38	205.33	370.83	-105.05	679.99
	33.27	308.52	130.28	233.79	-63.75	428.69
	18.29	148.94	64.01	112.86	-27.43	206.95
	5.22	10.64	6.53	8.06	3.91	14.78
	-106.39	-5.95	-80.62	-42.16	-147.82	30.26
	-202.13	-15.22	-153.17	-82.07	-280.86	51.62
	-276.60	-22.59	-209.60	-113.18	-384.34	68.00
	-329.80	-28.06	-249.91	-135.51	-458.25	79.40
	-361.71	-31.62	-274.10	-149.05	-502.60	85.81
	-372.35	-33.28	-282.16	-153.80	-517.38	87.23
	-372.35	-33.28	-282.16	-153.80	-517.38	87.23
	-361.71	-33.04	-274.10	-149.76	-502.60	83.67
	-329.80	-30.90	-249.91	-136.93	-458.25	75.13
	-276.60	-26.86	-209.60	-115.32	-384.34	61.60
	-202.13	-20.91	-153.17	-84.91	-280.86	43.09
	-106.39	-13.06	-80.62	-45.72	-147.82	19.59
	-3.31	10.64	2.26	8.06	-8.89	14.78
	8.34	148.94	59.03	112.86	-42.36	206.95
	21.89	308.52	124.59	233.79	-80.81	428.69
	37.35	489.38	198.94	370.83	-124.25	679.99
	54.70	691.51	282.07	524.01	-172.67	960.85
	65.95	651.50	273.04	493.85	-141.14	905.23
0.85	48.04	461.06	193.91	349.49	-97.84	640.62
	31.94	290.67	123.08	220.33	-59.20	403.87
	17.65	140.32	60.53	106.37	-25.23	194.97
	5.17	10.02	6.28	7.60	4.06	13.93
	-100.23	-5.50	-75.98	-39.68	-139.27	28.69
	-190.44	-14.36	-144.35	-77.35	-264.60	48.64
	-260.60	-21.40	-197.54	-106.73	-362.09	63.92
	-310.71	-26.64	-235.53	-127.81	-431.72	74.53
	-340.78	-30.07	-258.32	-140.61	-473.50	80.47
	-350.81	-31.68	-265.92	-145.11	-487.43	81.74
	-350.81	-31.68	-265.92	-145.11	-487.43	81.74
	-340.78	-31.49	-258.32	-141.32	-473.50	78.34
	-310.71	-29.48	-235.53	-129.24	-431.72	70.27
	-260.60	-25.67	-197.54	-108.86	-362.09	57.52
	-190.44	-20.04	-144.35	-80.20	-264.60	40.11
	-100.23	-12.61	-75.98	-43.24	-139.27	18.02
	-3.36	10.02	2.01	7.60	-8.73	13.93
	7.70	140.32	55.56	106.37	-40.16	194.97
	20.56	290.67	117.39	220.33	-76.26	403.87
	35.24	461.06	187.52	349.49	-117.03	640.62
	51.73	651.50	265.93	493.85	-162.47	905.23
0.90	60.09	612.71	255.48	463.81	-135.31	851.43
	43.89	433.61	181.48	328.24	-93.70	602.55

	29.32	273.36	115.24	206.93	-56.59	379.87
	16.39	131.97	56.75	99.90	-23.97	183.39
	5.08	9.43	6.01	7.14	4.15	13.10
	-94.26	-4.60	-71.36	-36.98	-130.99	27.79
	-179.10	-12.64	-135.58	-72.22	-248.88	46.93
	-245.08	-19.06	-185.53	-99.70	-340.57	61.59
	-292.21	-23.84	-221.20	-119.44	-406.07	71.75
	-320.49	-27.00	-242.61	-131.42	-445.36	77.42
	-329.92	-28.53	-249.75	-135.65	-458.46	78.60
	-329.92	-28.53	-249.75	-135.65	-458.46	78.60
	-320.49	-28.42	-242.61	-132.13	-445.36	75.29
	-292.21	-26.69	-221.20	-120.86	-406.07	67.48
	-245.08	-23.32	-185.53	-101.84	-340.57	55.19
	-179.10	-18.33	-135.58	-75.06	-248.88	38.40
	-94.26	-11.70	-71.36	-40.53	-130.99	17.12
	-3.45	9.43	1.74	7.14	-8.64	13.10
	6.43	131.97	51.77	99.90	-38.90	183.39
	17.95	273.36	109.55	206.93	-73.66	379.87
	31.09	433.61	175.08	328.24	-112.90	602.55
	45.87	612.71	248.37	463.81	-156.63	851.43
	58.22	581.39	243.14	440.33	-126.70	807.87
	42.57	411.44	172.75	311.62	-87.61	571.72
	28.49	259.39	109.74	196.45	-52.75	360.43
	15.99	125.22	54.09	94.84	-22.12	174.00
	5.05	8.94	5.82	6.77	4.29	12.43
	-89.44	-4.31	-67.74	-35.08	-124.29	26.46
	-169.94	-12.10	-128.71	-68.61	-236.15	44.42
	-232.55	-18.31	-176.13	-94.77	-323.15	58.14
	-277.28	-22.96	-210.00	-113.55	-385.29	67.64
	-304.11	-26.03	-230.33	-124.97	-422.58	72.92
	-313.05	-27.52	-237.10	-129.01	-435.01	73.96
	-313.05	-27.52	-237.10	-129.01	-435.01	73.96
	-304.11	-27.45	-230.33	-125.68	-422.58	70.78
	-277.28	-25.80	-210.00	-114.98	-385.29	63.38
	-232.55	-22.58	-176.13	-96.90	-323.15	51.75
	-169.94	-17.78	-128.71	-71.46	-236.15	35.89
	-89.44	-11.42	-67.74	-38.64	-124.29	15.80
	-3.48	8.94	1.55	6.77	-8.51	12.43
	6.03	125.22	49.12	94.84	-37.05	174.00
	17.12	259.39	104.05	196.45	-69.82	360.43
	29.77	411.44	166.36	311.62	-106.81	571.72
	44.00	581.39	236.03	440.33	-148.03	807.87
0.95	55.98	552.62	231.47	418.62	-119.52	767.89
1.00	40.98	391.09	164.49	296.25	-82.53	543.43
	27.49	246.56	104.53	186.77	-49.55	342.60

	15.50	119.03	51.58	90.16	-20.57	165.39
	5.02	8.50	5.64	6.44	4.40	11.81
	-85.02	-3.96	-64.40	-33.29	-118.14	25.36
	-161.54	-11.44	-122.37	-65.20	-224.46	42.32
	-221.05	-17.41	-167.45	-90.10	-307.16	55.27
	-263.56	-21.88	-199.65	-107.99	-366.23	64.22
	-289.07	-24.85	-218.97	-118.86	-401.67	69.16
	-297.57	-26.31	-225.41	-122.72	-413.48	70.10
	-297.57	-26.31	-225.41	-122.72	-413.48	70.10
	-289.07	-26.27	-218.97	-119.57	-401.67	67.03
	-263.56	-24.73	-199.65	-109.41	-366.23	59.96
	-221.05	-21.68	-167.45	-92.23	-307.16	48.87
	-161.54	-17.13	-122.37	-68.04	-224.46	33.79
	-85.02	-11.07	-64.40	-36.84	-118.14	14.70
	-3.51	8.50	1.37	6.44	-8.40	11.81
	5.55	119.03	46.60	90.16	-35.51	165.39
	16.11	246.56	98.84	186.77	-66.61	342.60
	28.18	391.09	158.10	296.25	-101.73	543.43
	41.76	552.62	224.36	418.62	-140.85	767.89
	54.51	527.17	221.48	399.55	-112.46	732.48
	39.94	373.07	157.42	282.76	-77.54	518.37
	26.83	235.20	100.07	178.26	-46.40	326.80
	15.19	113.54	49.43	86.06	-19.05	157.77
	5.00	8.11	5.49	6.15	4.50	11.27
	-81.10	-3.74	-61.47	-31.75	-112.69	24.27
	-154.10	-11.01	-116.79	-62.28	-214.11	40.26
	-210.87	-16.83	-159.82	-86.10	-292.99	52.45
	-251.42	-21.18	-190.55	-103.22	-349.34	60.86
	-275.75	-24.08	-208.99	-113.63	-383.15	65.47
	-283.86	-25.52	-215.14	-117.34	-394.41	66.30
	-283.86	-25.52	-215.14	-117.34	-394.41	66.30
	-275.75	-25.50	-208.99	-114.35	-383.15	63.34
	-251.42	-24.03	-190.55	-104.64	-349.34	56.59
	-210.87	-21.09	-159.82	-88.24	-292.99	46.05
	-154.10	-16.70	-116.79	-65.12	-214.11	31.73
	-81.10	-10.85	-61.47	-35.30	-112.69	13.61
	-3.54	8.11	1.22	6.15	-8.29	11.27
	5.23	113.54	44.45	86.06	-33.98	157.77
	15.46	235.20	94.38	178.26	-63.47	326.80
	27.14	373.07	151.02	282.76	-96.73	518.37
	40.29	527.17	214.37	399.55	-133.79	732.48
	50.53	501.39	209.75	379.56	-108.69	696.73
	37.13	354.83	149.12	268.61	-74.87	493.07
	25.06	223.70	94.84	169.34	-44.72	310.85
	14.33	107.99	46.90	81.75	-18.24	150.07

	4.93	7.71	5.31	5.84	4.56	10.72
	-77.14	-3.13	-58.39	-29.95	-107.19	23.69
	-146.56	-9.85	-110.95	-58.85	-203.66	39.15
	-200.55	-15.24	-151.83	-81.41	-278.69	50.94
	-239.12	-19.29	-181.02	-97.63	-332.29	59.05
	-262.26	-22.00	-198.54	-107.50	-364.44	63.50
	-269.98	-23.38	-204.38	-111.03	-375.16	64.27
	-269.98	-23.38	-204.38	-111.03	-375.16	64.27
	-262.26	-23.42	-198.54	-108.21	-364.44	61.36
	-239.12	-22.13	-181.02	-99.05	-332.29	54.79
	-200.55	-19.50	-151.83	-83.55	-278.69	44.54
	-146.56	-15.54	-110.95	-61.69	-203.66	30.62
	-77.14	-10.24	-58.39	-33.50	-107.19	13.03
	-3.60	7.71	1.04	5.84	-8.23	10.72
	4.38	107.99	41.92	81.75	-33.17	150.07
	13.69	223.70	89.15	169.34	-61.78	310.85
	24.33	354.83	142.72	268.61	-94.06	493.07
	36.31	501.39	202.64	379.56	-130.01	696.73
	49.45	480.39	201.59	363.86	-102.70	667.52
	36.36	339.97	143.35	257.50	-70.63	472.40
	24.58	214.33	91.20	162.34	-42.04	297.82
	14.10	103.47	45.14	78.37	-16.95	143.77
	4.92	7.39	5.18	5.60	4.65	10.27
	-73.91	-2.96	-55.98	-28.69	-102.70	22.77
	-140.42	-9.53	-106.36	-56.46	-195.12	37.40
	-192.15	-14.80	-145.54	-78.15	-267.01	48.54
	-229.11	-18.77	-173.53	-93.74	-318.36	56.20
	-251.28	-21.43	-190.33	-103.23	-349.16	60.36
	-258.67	-22.80	-195.93	-106.63	-359.43	61.04
	-258.67	-22.80	-195.93	-106.63	-359.43	61.04
	-251.28	-22.86	-190.33	-103.94	-349.16	58.23
	-229.11	-21.61	-173.53	-95.16	-318.36	51.93
	-192.15	-19.07	-145.54	-80.28	-267.01	42.14
	-140.42	-15.22	-106.36	-59.31	-195.12	28.87
	-73.91	-10.07	-55.98	-32.24	-102.70	12.11
	-3.61	7.39	0.91	5.60	-8.14	10.27
	4.14	103.47	40.16	78.37	-31.88	143.77
	13.20	214.33	85.51	162.34	-59.11	297.82
	23.56	339.97	136.95	257.50	-89.82	472.40
	35.23	480.39	194.48	363.86	-124.03	667.52
	48.46	461.15	194.11	349.48	-97.20	640.75
	35.66	326.35	138.05	247.32	-66.74	453.46
	24.13	205.74	87.86	155.92	-39.59	285.87
	13.88	99.32	43.53	75.27	-15.77	138.01
	4.90	7.09	5.06	5.38	4.74	9.86

	-70.95	-2.81	-53.77	-27.54	-98.58	21.93
	-134.80	-9.24	-102.15	-54.28	-187.30	35.79
	-184.46	-14.41	-139.79	-75.16	-256.30	46.34
	-219.93	-18.30	-166.67	-90.17	-305.59	53.58
	-241.21	-20.92	-182.80	-99.32	-335.16	57.49
	-248.31	-22.26	-188.18	-102.61	-345.02	58.08
	-248.31	-22.26	-188.18	-102.61	-345.02	58.08
	-241.21	-22.34	-182.80	-100.03	-335.16	55.35
	-219.93	-21.14	-166.67	-91.59	-305.59	49.31
	-184.46	-18.67	-139.79	-77.29	-256.30	39.95
	-134.80	-14.93	-102.15	-57.12	-187.30	27.26
	-70.95	-9.92	-53.77	-31.09	-98.58	11.26
	-3.63	7.09	0.80	5.38	-8.06	9.86
	3.93	99.32	38.55	75.27	-30.70	138.01
	12.76	205.74	82.17	155.92	-56.66	285.87
	22.86	326.35	131.66	247.32	-85.93	453.46
	34.24	461.15	187.00	349.48	-118.53	640.75
1.25	47.55	443.45	187.24	336.25	-92.13	616.14
	35.02	313.83	133.19	237.96	-63.15	436.03
	23.73	197.85	84.80	150.02	-37.33	274.89
	13.69	95.51	42.05	72.42	-14.68	132.71
	4.89	6.82	4.96	5.17	4.82	9.48
	-68.22	-2.67	-51.73	-26.48	-94.79	21.15
	-129.62	-8.98	-98.29	-52.27	-180.10	34.31
	-177.38	-14.04	-134.50	-72.41	-246.45	44.32
	-211.49	-17.87	-160.36	-86.89	-293.85	51.16
	-231.96	-20.44	-175.88	-95.73	-322.29	54.84
	-238.78	-21.78	-181.06	-98.91	-331.77	55.35
	-238.78	-21.78	-181.06	-98.91	-331.77	55.35
	-231.96	-21.87	-175.88	-96.44	-322.29	52.70
	-211.49	-20.71	-160.36	-88.31	-293.85	46.89
	-177.38	-18.31	-134.50	-74.54	-246.45	37.92
	-129.62	-14.67	-98.29	-55.11	-180.10	25.78
	-68.22	-9.78	-51.73	-30.04	-94.79	10.48
	-3.64	6.82	0.69	5.17	-7.98	9.48
	3.73	95.51	37.07	72.42	-29.61	132.71
	12.36	197.85	79.11	150.02	-54.40	274.89
	22.22	313.83	126.79	237.96	-82.35	436.03
	33.33	443.45	180.13	336.25	-113.46	616.14
1.30	46.73	427.12	180.90	324.04	-87.45	593.42
	34.43	302.27	128.71	229.32	-59.84	419.96
	23.36	190.56	81.97	144.57	-35.24	264.76
	13.51	92.00	40.69	69.79	-13.67	127.81
	4.85	6.59	4.85	4.99	4.85	9.15
	-65.71	-2.54	-49.85	-25.51	-91.30	20.43

	-124.85	-8.74	-94.72	-50.42	-173.46	32.95
	-170.85	-13.71	-129.62	-69.87	-237.37	42.45
	-203.70	-17.47	-154.54	-83.87	-283.02	48.93
	-223.42	-20.01	-169.50	-92.41	-310.40	52.39
	-229.99	-21.33	-174.48	-95.49	-319.53	52.83
	-229.99	-21.33	-174.48	-95.49	-319.53	52.83
	-223.42	-21.43	-169.50	-93.12	-310.40	50.26
	-203.70	-20.32	-154.54	-85.29	-283.02	44.66
	-170.85	-17.98	-129.62	-72.01	-237.37	36.05
	-124.85	-14.42	-94.72	-53.26	-173.46	24.41
	-65.71	-9.65	-49.85	-29.06	-91.30	9.76
	-3.66	6.57	0.60	4.99	-7.91	9.13
	3.56	92.00	35.71	69.79	-28.60	127.81
	11.99	190.56	76.28	144.57	-52.31	264.76
	21.64	302.27	122.31	229.32	-79.03	419.96
	32.51	427.12	173.79	324.04	-108.78	593.42
	45.96	412.01	175.04	312.75	-83.11	572.40
	33.90	291.58	124.56	221.33	-56.77	405.08
	23.02	183.82	79.35	139.53	-33.31	255.38
	13.35	88.74	39.42	67.36	-12.73	123.29
	4.68	6.45	4.68	4.81	4.68	8.97
	-63.39	-2.42	-48.11	-24.60	-88.06	19.76
	-120.43	-8.51	-91.42	-48.70	-167.32	31.68
	-164.80	-13.41	-125.10	-67.53	-228.96	40.71
	-196.50	-17.11	-149.16	-81.07	-272.99	46.86
	-215.51	-19.61	-163.59	-89.34	-299.41	50.12
	-221.85	-20.92	-168.40	-92.34	-308.21	50.49
	-221.85	-20.92	-168.40	-92.34	-308.21	50.49
	-215.51	-21.03	-163.59	-90.06	-299.41	47.99
	-196.50	-19.95	-149.16	-82.50	-272.99	42.59
	-164.80	-17.67	-125.10	-69.66	-228.96	34.31
	-120.43	-14.20	-91.42	-51.55	-167.32	23.15
	-63.39	-9.53	-48.11	-28.16	-88.06	9.09
	-3.67	6.34	0.51	4.81	-7.84	8.81
	3.39	88.74	34.45	67.36	-27.66	123.29
	11.65	183.82	73.66	139.53	-50.37	255.38
	21.10	291.58	118.16	221.33	-75.96	405.08
	31.74	412.01	167.93	312.75	-104.44	572.40
	45.26	397.98	169.60	302.26	-79.08	552.88
	33.40	281.65	120.71	213.91	-53.91	391.27
	22.71	177.56	76.93	134.86	-31.51	246.67
	13.19	85.72	38.25	65.10	-11.86	119.08
	4.52	6.32	4.52	4.69	4.52	8.80
	-61.23	-2.31	-46.50	-23.77	-85.06	19.14
	-116.33	-8.31	-88.35	-47.11	-161.61	30.50

	-159.19	-13.13	-120.91	-65.35	-221.15	39.10
	-189.81	-16.77	-144.16	-78.48	-263.68	44.93
	-208.17	-19.25	-158.11	-86.50	-289.20	48.01
	-214.30	-20.54	-162.76	-89.41	-297.70	48.32
	-214.30	-20.54	-162.76	-89.41	-297.70	48.32
	-208.17	-20.67	-158.11	-87.21	-289.20	45.87
	-189.81	-19.62	-144.16	-79.90	-263.68	40.67
	-159.19	-17.39	-120.91	-67.49	-221.15	32.70
	-116.33	-14.00	-88.35	-49.96	-161.61	21.97
	-61.23	-9.42	-46.50	-27.32	-85.06	8.47
	-3.68	6.12	0.42	4.65	-7.78	8.51
	3.24	85.72	33.28	65.10	-26.79	119.08
	11.33	177.56	71.24	134.86	-48.57	246.67
	20.60	281.65	114.31	213.91	-73.11	391.27
	31.04	397.98	162.49	302.26	-100.41	552.88
1.45	44.61	384.92	164.54	292.51	-75.31	534.71
	32.94	272.41	117.13	207.01	-51.25	378.41
	22.42	171.74	74.67	130.50	-29.83	238.57
	13.05	82.91	37.16	63.00	-11.05	115.17
	4.38	6.20	4.38	4.61	4.38	8.65
	-59.22	-2.21	-45.00	-22.99	-82.26	18.56
	-112.52	-8.12	-85.50	-45.64	-156.30	29.40
	-153.97	-12.87	-117.00	-63.33	-213.89	37.59
	-183.58	-16.46	-139.50	-76.07	-255.02	43.14
	-201.34	-18.91	-153.00	-83.85	-279.70	46.04
	-207.27	-20.19	-157.50	-86.69	-287.92	46.30
	-207.27	-20.19	-157.50	-86.69	-287.92	46.30
	-201.34	-20.33	-153.00	-84.56	-279.70	43.91
	-183.58	-19.31	-139.50	-77.49	-255.02	38.87
	-153.97	-17.13	-117.00	-65.46	-213.89	31.19
	-112.52	-13.81	-85.50	-48.48	-156.30	20.87
	-59.22	-9.32	-45.00	-26.54	-82.26	7.90
	-3.69	5.92	0.34	4.50	-7.72	8.23
	3.10	82.91	32.19	63.00	-25.98	115.17
	11.04	171.74	68.98	130.50	-46.89	238.57
	20.14	272.41	110.73	207.01	-70.45	378.41
	30.39	384.92	157.43	292.51	-96.64	534.71
1.50	44.01	372.74	159.83	283.41	-71.80	517.77
	32.51	263.79	113.79	200.56	-48.76	366.42
	22.15	166.30	72.56	126.44	-28.26	231.00
	12.93	80.28	36.15	61.04	-10.30	111.52
	4.24	6.09	4.24	4.54	4.24	8.50
	-57.34	-2.12	-43.60	-22.26	-79.66	18.02
	-108.96	-7.94	-82.84	-44.26	-151.35	28.37
	-149.10	-12.63	-113.36	-61.44	-207.11	36.19

	-177.77	-16.18	-135.16	-73.82	-246.94	41.46
	-194.97	-18.59	-148.24	-81.39	-270.83	44.20
	-200.71	-19.87	-152.60	-84.15	-278.80	44.40
	-200.71	-19.87	-152.60	-84.15	-278.80	44.40
	-194.97	-20.01	-148.24	-82.10	-270.83	42.07
	-177.77	-19.02	-135.16	-75.24	-246.94	37.20
	-149.10	-16.89	-113.36	-63.57	-207.11	29.79
	-108.96	-13.63	-82.84	-47.10	-151.35	19.84
	-57.34	-9.23	-43.60	-25.82	-79.66	7.35
	-3.70	5.73	0.27	4.36	-7.67	7.97
	2.97	80.28	31.17	61.04	-25.23	111.52
	10.78	166.30	66.88	126.44	-45.32	231.00
	19.72	263.79	107.39	200.56	-67.96	366.42
	29.79	372.74	152.72	283.41	-93.13	517.77
1.55	43.45	361.35	155.42	274.90	-68.51	501.92
	32.12	255.72	110.67	194.54	-46.43	355.20
	21.90	161.22	70.60	122.65	-26.79	223.93
	12.80	77.83	35.20	59.21	-9.59	108.11
	4.11	5.99	4.11	4.47	4.11	8.36
	-55.59	-2.04	-42.29	-21.59	-77.22	17.51
	-105.63	-7.78	-80.35	-42.97	-146.71	27.41
	-144.54	-12.40	-109.96	-59.68	-200.77	34.87
	-172.34	-15.91	-131.10	-71.72	-239.38	39.89
	-189.01	-18.30	-143.79	-79.08	-262.54	42.48
	-194.57	-19.57	-148.02	-81.77	-270.26	42.63
	-194.57	-19.57	-148.02	-81.77	-270.26	42.63
	-189.01	-19.72	-143.79	-79.79	-262.54	40.35
	-172.34	-18.76	-131.10	-73.14	-239.38	35.63
	-144.54	-16.67	-109.96	-61.81	-200.77	28.47
	-105.63	-13.47	-80.35	-45.81	-146.71	18.88
	-55.59	-9.15	-42.29	-25.14	-77.22	6.85
	-3.71	5.56	0.20	4.23	-7.62	7.72
	2.85	77.83	30.22	59.21	-24.52	108.11
	10.53	161.22	64.91	122.65	-43.85	223.93
	19.32	255.72	104.27	194.54	-65.63	355.20
	29.23	361.35	148.31	274.90	-89.84	501.92
1.60	42.93	350.67	151.29	266.92	-65.42	487.06
	31.75	248.17	107.75	188.90	-44.24	344.69
	21.67	156.45	68.76	119.09	-25.41	217.31
	12.69	75.53	34.31	57.49	-8.92	104.91
	3.99	5.89	3.99	4.41	3.99	8.23
	-53.95	-1.96	-41.06	-20.95	-74.93	17.04
	-102.50	-7.63	-78.02	-41.76	-142.37	26.51
	-140.27	-12.20	-106.77	-58.03	-194.83	33.63
	-167.24	-15.66	-127.30	-69.75	-232.29	38.42

	-183.43	-18.03	-139.62	-76.92	-254.77	40.86
	-188.82	-19.29	-143.73	-79.55	-262.27	40.97
	-188.82	-19.29	-143.73	-79.55	-262.27	40.97
	-183.43	-19.45	-139.62	-77.63	-254.77	38.73
	-167.24	-18.51	-127.30	-71.17	-232.29	34.15
	-140.27	-16.46	-106.77	-60.16	-194.83	27.23
	-102.50	-13.32	-78.02	-44.61	-142.37	17.97
	-53.95	-9.07	-41.06	-24.51	-74.93	6.37
	-3.71	5.39	0.14	4.11	-7.57	7.49
	2.74	75.53	29.33	57.49	-23.85	104.91
	10.30	156.45	63.07	119.09	-42.48	217.31
	18.95	248.17	101.35	188.90	-63.44	344.69
	28.72	350.67	144.18	266.92	-86.75	487.06
1.65	42.45	340.65	147.41	259.43	-62.51	473.12
	31.41	241.07	105.00	183.60	-42.19	334.82
	21.45	151.98	67.03	115.75	-24.12	211.08
	12.59	73.37	33.47	55.88	-8.30	101.90
	3.88	5.80	3.88	4.35	3.88	8.11
	-52.41	-1.88	-39.91	-20.35	-72.79	16.59
	-99.57	-7.49	-75.83	-40.63	-138.30	25.66
	-136.26	-12.00	-103.77	-56.48	-189.25	32.47
	-162.46	-15.43	-123.73	-67.90	-225.64	37.03
	-178.18	-17.77	-135.70	-74.89	-247.48	39.34
	-183.43	-19.03	-139.69	-77.46	-254.75	39.40
	-183.43	-19.03	-139.69	-77.46	-254.75	39.40
	-178.18	-19.20	-135.70	-75.60	-247.48	37.21
	-162.46	-18.28	-123.73	-69.32	-225.64	32.77
	-136.26	-16.27	-103.77	-58.61	-189.25	26.07
	-99.57	-13.17	-75.83	-43.47	-138.30	17.12
	-52.41	-8.99	-39.91	-23.91	-72.79	5.93
	-3.72	5.24	0.08	3.99	-7.52	7.28
	2.63	73.37	28.50	55.88	-23.23	101.90
	10.08	151.98	61.34	115.75	-41.18	211.08
	18.61	241.07	98.61	183.60	-61.38	334.82
	28.23	340.65	140.30	259.43	-83.84	473.12
1.70	42.00	331.21	143.76	252.39	-59.77	459.99
	31.09	234.40	102.43	178.61	-40.25	325.53
	21.25	147.77	65.40	112.60	-22.89	205.23
	12.49	71.34	32.69	54.36	-7.71	99.08
	3.78	5.71	3.78	4.29	3.78	8.00
	-50.96	-1.81	-38.83	-19.79	-70.77	16.17
	-96.82	-7.35	-73.78	-39.56	-134.46	24.86
	-132.49	-11.82	-100.96	-55.02	-184.00	31.37
	-157.96	-15.22	-120.37	-66.16	-219.38	35.73
	-173.25	-17.54	-132.02	-72.99	-240.61	37.91

	-178.35	-18.78	-135.90	-75.50	-247.69	37.93
	-178.35	-18.78	-135.90	-75.50	-247.69	37.93
	-173.25	-18.96	-132.02	-73.70	-240.61	35.78
	-157.96	-18.06	-120.37	-67.58	-219.38	31.46
	-132.49	-16.09	-100.96	-57.15	-184.00	24.98
	-96.82	-13.04	-73.78	-42.41	-134.46	16.32
	-50.96	-8.92	-38.83	-23.35	-70.77	5.50
	-3.73	5.10	0.02	3.88	-7.48	7.08
	2.54	71.34	27.71	54.36	-22.64	99.08
	9.88	147.77	59.71	112.60	-39.96	205.23
	18.29	234.40	96.03	178.61	-59.45	325.53
	27.78	331.21	136.66	252.39	-81.10	459.99
	41.57	322.32	140.33	245.75	-57.19	447.62
	30.79	228.11	99.99	173.91	-38.42	316.78
	21.06	143.81	63.87	109.64	-21.74	199.71
	12.40	69.42	31.95	52.93	-7.15	96.41
	3.68	5.63	3.68	4.24	3.68	7.89
	-49.59	-1.75	-37.81	-19.26	-68.86	15.77
	-94.22	-7.23	-71.83	-38.56	-130.84	24.10
	-128.93	-11.65	-98.30	-53.64	-179.05	30.34
	-153.72	-15.01	-117.20	-64.52	-213.48	34.49
	-168.60	-17.31	-128.55	-71.19	-234.14	36.56
	-173.56	-18.56	-132.33	-73.65	-241.03	36.54
	-173.56	-18.56	-132.33	-73.65	-241.03	36.54
	-168.60	-18.74	-128.55	-71.90	-234.14	34.43
	-153.72	-17.86	-117.20	-65.94	-213.48	30.23
	-128.93	-15.92	-98.30	-55.78	-179.05	23.94
	-94.22	-12.92	-71.83	-41.40	-130.84	15.57
	-49.59	-8.86	-37.81	-22.82	-68.86	5.11
	-3.74	4.96	-0.03	3.78	-7.44	6.89
	2.45	69.42	26.97	52.93	-22.08	96.41
	9.69	143.81	58.18	109.64	-38.81	199.71
	17.99	228.11	93.60	173.91	-57.62	316.78
	27.35	322.32	133.22	245.75	-78.52	447.62
	41.17	313.93	137.09	239.48	-54.75	435.94
	30.50	222.16	97.70	169.48	-36.69	308.51
	20.88	140.06	62.42	106.85	-20.65	194.50
	12.31	67.62	31.25	51.58	-6.62	93.89
	3.58	5.55	3.58	4.19	3.58	7.79
	-48.30	-1.69	-36.84	-18.77	-67.07	15.40
	-91.76	-7.11	-70.00	-37.61	-127.43	23.39
	-125.57	-11.49	-95.79	-52.35	-174.38	29.36
	-149.72	-14.82	-114.21	-62.97	-207.91	33.33
	-164.21	-17.11	-125.27	-69.49	-228.03	35.28
	-169.04	-18.34	-128.95	-71.90	-234.74	35.22

	-169.04	-18.34	-128.95	-71.90	-234.74	35.22
	-164.21	-18.53	-125.27	-70.20	-228.03	33.15
	-149.72	-17.67	-114.21	-64.40	-207.91	29.06
	-125.57	-15.76	-95.79	-54.48	-174.38	22.96
	-91.76	-12.80	-70.00	-40.46	-127.43	14.85
	-48.30	-8.80	-36.84	-22.32	-67.07	4.73
	-3.74	4.83	-0.08	3.68	-7.41	6.71
	2.36	67.62	26.27	51.58	-21.55	93.89
	9.51	140.06	56.73	106.85	-37.72	194.50
	17.71	222.16	91.30	169.48	-55.89	308.51
	26.95	313.93	129.98	239.48	-76.08	435.94
	40.80	305.99	134.03	233.55	-52.43	424.89
	30.24	216.55	95.53	165.28	-35.06	300.69
	20.72	136.52	61.05	104.20	-19.62	189.57
	12.23	65.91	30.59	50.30	-6.12	91.52
	3.50	5.48	3.50	4.14	3.50	7.70
	-47.08	-1.63	-35.93	-18.30	-65.37	15.04
	-89.44	-7.00	-68.27	-36.72	-124.20	22.71
	-122.40	-11.34	-93.42	-51.12	-169.96	28.44
	-145.93	-14.64	-111.39	-61.51	-202.64	32.23
	-160.06	-16.91	-122.17	-67.89	-222.25	34.07
	-164.76	-18.14	-125.76	-70.25	-228.79	33.98
	-164.76	-18.14	-125.76	-70.25	-228.79	33.98
	-160.06	-18.33	-122.17	-68.60	-222.25	31.94
	-145.93	-17.49	-111.39	-62.94	-202.64	27.96
	-122.40	-15.61	-93.42	-53.26	-169.96	22.04
	-89.44	-12.69	-68.27	-39.56	-124.20	14.18
	-47.08	-8.74	-35.93	-21.85	-65.37	4.37
	-3.75	4.71	-0.13	3.59	-7.37	6.54
	2.28	65.91	25.61	50.30	-21.06	91.52
	9.34	136.52	55.37	104.20	-36.68	189.57
	17.44	216.55	89.13	165.28	-54.25	300.69
	26.58	305.99	126.92	233.55	-73.76	424.89
	40.44	298.47	131.13	227.94	-50.24	414.43
	29.99	211.22	93.48	161.31	-33.50	293.29
	20.56	133.16	59.76	101.70	-18.64	184.90
	12.16	64.29	29.97	49.10	-5.65	89.26
	3.41	5.41	3.41	4.10	3.41	7.61
	-45.92	-1.57	-35.07	-17.85	-63.76	14.70
	-87.25	-6.90	-66.63	-35.87	-121.14	22.07
	-119.39	-11.20	-91.18	-49.96	-165.77	27.56
	-142.35	-14.48	-108.71	-60.13	-197.65	31.18
	-156.12	-16.73	-119.23	-66.37	-216.78	32.92
	-160.71	-17.95	-122.74	-68.69	-223.16	32.79
	-160.71	-17.95	-122.74	-68.69	-223.16	32.79

	-156.12	-18.15	-119.23	-67.09	-216.78	30.79
	-142.35	-17.32	-108.71	-61.55	-197.65	26.91
	-119.39	-15.47	-91.18	-52.10	-165.77	21.16
	-87.25	-12.59	-66.63	-38.71	-121.14	13.54
	-45.92	-8.68	-35.07	-21.40	-63.76	4.04
	-3.75	4.59	-0.17	3.51	-7.34	6.38
	2.20	64.29	24.99	49.10	-20.58	89.26
	9.18	133.16	54.07	101.70	-35.70	184.90
	17.19	211.22	87.08	161.31	-52.70	293.29
	26.22	298.47	124.02	227.94	-71.57	414.43
1.95	40.11	291.34	128.38	222.62	-48.16	404.51
	29.75	206.18	91.54	157.55	-32.03	286.27
	20.41	129.98	58.53	99.32	-17.71	180.47
	12.08	62.75	29.37	47.95	-5.20	87.13
	3.33	5.35	3.33	4.05	3.33	7.52
	-44.82	-1.52	-34.25	-17.43	-62.23	14.38
	-85.16	-6.80	-65.07	-35.06	-118.24	21.46
	-116.54	-11.07	-89.05	-48.86	-161.80	26.73
	-138.95	-14.32	-106.17	-58.82	-192.92	30.19
	-152.39	-16.55	-116.45	-64.94	-211.59	31.83
	-156.87	-17.77	-119.87	-67.21	-217.81	31.67
	-156.87	-17.77	-119.87	-67.21	-217.81	31.67
	-152.39	-17.97	-116.45	-65.65	-211.59	29.70
	-138.95	-17.16	-106.17	-60.24	-192.92	25.92
	-116.54	-15.33	-89.05	-51.00	-161.80	20.33
	-85.16	-12.49	-65.07	-37.91	-118.24	12.93
	-44.82	-8.63	-34.25	-20.98	-62.23	3.72
	-3.76	4.48	-0.21	3.42	-7.30	6.22
	2.13	62.75	24.40	47.95	-20.13	87.13
	9.04	129.98	52.85	99.32	-34.77	180.47
	16.96	206.18	85.14	157.55	-51.22	286.27
	25.89	291.34	121.27	222.62	-69.48	404.51
2.00	39.80	284.57	125.77	217.56	-46.17	395.09
	29.53	201.38	89.69	153.97	-30.63	279.60
	20.27	126.96	57.37	97.07	-16.83	176.27
	12.02	61.29	28.81	46.86	-4.78	85.10
	3.26	5.28	3.26	4.01	3.26	7.44
	-43.78	-1.47	-33.47	-17.02	-60.78	14.08
	-83.18	-6.71	-63.60	-34.30	-115.49	20.88
	-113.83	-10.94	-87.03	-47.82	-158.04	25.93
	-135.72	-14.17	-103.76	-57.57	-188.43	29.24
	-148.85	-16.39	-113.80	-63.57	-206.66	30.80
	-153.23	-17.60	-117.15	-65.81	-212.74	30.61
	-153.23	-17.60	-117.15	-65.81	-212.74	30.61
	-148.85	-17.81	-113.80	-64.28	-206.66	28.66

	-135.72	-17.01	-103.76	-59.00	-188.43	24.97
	-113.83	-15.21	-87.03	-49.95	-158.04	19.54
	-83.18	-12.40	-63.60	-37.15	-115.49	12.35
	-43.78	-8.58	-33.47	-20.58	-60.78	3.41
	-3.76	4.38	-0.25	3.35	-7.27	6.08
	2.06	61.29	23.83	46.86	-19.71	85.10
	8.90	126.96	51.68	97.07	-33.89	176.27
	16.73	201.38	83.29	153.97	-49.82	279.60
	25.58	284.57	118.66	217.56	-67.50	395.09
	39.50	278.12	123.29	212.76	-44.29	386.13
	29.32	196.83	87.93	150.57	-29.29	273.26
	20.14	124.09	56.26	94.92	-15.99	172.27
	11.95	59.90	28.28	45.82	-4.37	83.17
	3.19	5.23	3.19	3.97	3.19	7.36
	-42.79	-1.43	-32.73	-16.64	-59.40	13.79
	-81.30	-6.62	-62.19	-33.58	-112.87	20.33
	-111.25	-10.82	-85.10	-46.83	-154.45	25.18
	-132.64	-14.03	-101.47	-56.39	-184.15	28.34
	-145.48	-16.23	-111.29	-62.27	-201.97	29.81
	-149.76	-17.44	-114.56	-64.47	-207.91	29.59
	-149.76	-17.44	-114.56	-64.47	-207.91	29.59
	-145.48	-17.65	-111.29	-62.98	-201.97	27.68
	-132.64	-16.87	-101.47	-57.81	-184.15	24.08
	-111.25	-15.09	-85.10	-48.96	-154.45	18.78
	-81.30	-12.31	-62.19	-36.42	-112.87	11.80
	-42.79	-8.54	-32.73	-20.20	-59.40	3.12
	-3.77	4.28	-0.29	3.27	-7.24	5.94
	2.00	59.90	23.30	45.82	-19.30	83.17
	8.76	124.09	50.57	94.92	-33.05	172.27
	16.52	196.83	81.53	150.57	-48.49	273.26
	25.28	278.12	116.18	212.76	-65.62	386.13
	39.22	271.99	120.92	208.18	-42.49	377.59
	29.12	192.49	86.26	147.33	-28.02	267.22
	20.01	121.35	55.21	92.88	-15.18	168.46
	11.89	58.58	27.77	44.84	-3.98	81.33
	3.12	5.17	3.12	3.94	3.12	7.29
	-41.84	-1.38	-32.03	-16.28	-58.09	13.51
	-79.51	-6.54	-60.85	-32.89	-110.37	19.80
	-108.80	-10.71	-83.27	-45.88	-151.04	24.46
	-129.72	-13.89	-99.29	-55.27	-180.08	27.48
	-142.27	-16.08	-108.89	-61.04	-197.51	28.87
	-146.46	-17.29	-112.10	-63.20	-203.32	28.62
	-146.46	-17.29	-112.10	-63.20	-203.32	28.62
	-142.27	-17.51	-108.89	-61.75	-197.51	26.74
	-129.72	-16.73	-99.29	-56.69	-180.08	23.22

	-108.80	-14.98	-83.27	-48.01	-151.04	18.06
	-79.51	-12.23	-60.85	-35.73	-110.37	11.27
	-41.84	-8.49	-32.03	-19.83	-58.09	2.85
	-3.77	4.18	-0.33	3.20	-7.22	5.81
	1.94	58.58	22.79	44.84	-18.91	81.33
	8.64	121.35	49.52	92.88	-32.25	168.46
	16.32	192.49	79.86	147.33	-47.22	267.22
	25.00	271.99	113.82	208.18	-63.82	377.59
2.15	38.95	266.15	118.67	203.82	-40.77	369.46
	28.93	188.35	84.67	144.24	-26.80	261.46
	19.89	118.74	54.21	90.93	-14.42	164.84
	11.83	57.32	27.28	43.90	-3.61	79.58
	3.05	5.12	3.05	3.90	3.05	7.22
	-40.95	-1.34	-31.36	-15.93	-56.84	13.25
	-77.80	-6.46	-59.58	-32.23	-108.00	19.30
	-106.46	-10.60	-81.53	-44.98	-147.78	23.78
	-126.93	-13.76	-97.21	-54.19	-176.20	26.67
	-139.22	-15.94	-106.61	-59.86	-193.26	27.97
	-143.31	-17.14	-109.75	-61.99	-198.94	27.70
	-143.31	-17.14	-109.75	-61.99	-198.94	27.70
	-139.22	-17.37	-106.61	-60.57	-193.26	25.84
	-126.93	-16.61	-97.21	-55.61	-176.20	22.40
	-106.46	-14.87	-81.53	-47.11	-147.78	17.38
	-77.80	-12.15	-59.58	-35.07	-108.00	10.77
	-40.95	-8.45	-31.36	-19.49	-56.84	2.58
	-3.78	4.09	-0.36	3.14	-7.19	5.68
	1.88	57.32	22.31	43.90	-18.54	79.58
	8.52	118.74	48.52	90.93	-31.48	164.84
16.13	188.35	78.27	144.24	-46.00	261.46	
24.73	266.15	111.57	203.82	-62.10	369.46	
2.20	38.70	260.57	116.53	199.66	-39.14	361.70
	28.75	184.40	83.15	141.30	-25.64	255.97
	19.78	116.25	53.25	89.08	-13.69	161.37
	11.78	56.12	26.82	43.00	-3.26	77.90
	2.99	5.07	2.99	3.87	2.99	7.15
	-40.09	-1.30	-30.72	-15.60	-55.65	12.99
	-76.17	-6.39	-58.36	-31.60	-105.73	18.82
	-104.23	-10.50	-79.86	-44.12	-144.68	23.12
	-124.27	-13.64	-95.22	-53.17	-172.50	25.88
	-136.30	-15.81	-104.44	-58.74	-189.20	27.12
	-140.31	-17.01	-107.51	-60.83	-194.76	26.82
	-140.31	-17.01	-107.51	-60.83	-194.76	26.82
	-136.30	-17.23	-104.44	-59.45	-189.20	24.98
	-124.27	-16.49	-95.22	-54.59	-172.50	21.62
-104.23	-14.77	-79.86	-46.26	-144.68	16.72	

	-76.17	-12.08	-58.36	-34.45	-105.73	10.29
	-40.09	-8.41	-30.72	-19.16	-55.65	2.33
	-3.78	4.01	-0.39	3.07	-7.16	5.56
	1.83	56.12	21.84	43.00	-18.19	77.90
	8.40	116.25	47.56	89.08	-30.75	161.37
	15.95	184.40	76.75	141.30	-44.84	255.97
	24.48	260.57	109.42	199.66	-60.46	361.70
	38.46	255.24	114.48	195.68	-37.57	354.28
2.25	28.58	180.63	81.70	138.48	-24.54	250.72
	19.67	113.88	52.33	87.30	-12.99	158.06
	11.73	54.97	26.38	42.15	-2.92	76.31
	2.93	5.02	2.93	3.84	2.93	7.09
	-39.27	-1.27	-30.10	-15.29	-54.50	12.75
	-74.61	-6.32	-57.20	-31.00	-103.56	18.36
	-102.10	-10.41	-78.27	-43.30	-141.71	22.49
	-121.73	-13.53	-93.32	-52.19	-168.97	25.14
	-133.51	-15.69	-102.36	-57.67	-185.32	26.30
	-137.44	-16.88	-105.37	-59.73	-190.77	25.97
	-137.44	-16.88	-105.37	-59.73	-190.77	25.97
	-133.51	-17.11	-102.36	-58.38	-185.32	24.16
	-121.73	-16.37	-93.32	-53.61	-168.97	20.87
	-102.10	-14.67	-78.27	-45.44	-141.71	16.09
	-74.61	-12.01	-57.20	-33.85	-103.56	9.83
	-39.27	-8.38	-30.10	-18.84	-54.50	2.09
	-3.78	3.93	-0.43	3.01	-7.14	5.45
	1.77	54.97	21.40	42.15	-17.85	76.31
	8.30	113.88	46.65	87.30	-30.05	158.06
	15.78	180.63	75.30	138.48	-43.73	250.72
	24.24	255.24	107.37	195.68	-58.90	354.28
	38.23	250.14	112.52	191.88	-36.07	347.19
2.30	28.42	177.02	80.31	135.79	-23.47	245.70
	19.57	111.60	51.46	85.61	-12.32	154.90
	11.68	53.88	25.96	41.33	-2.60	74.78
	2.87	4.97	2.87	3.81	2.87	7.02
	-38.48	-1.23	-29.52	-14.99	-53.41	12.52
	-73.12	-6.25	-56.09	-30.43	-101.49	17.93
	-100.06	-10.31	-76.75	-42.52	-138.88	21.89
	-119.30	-13.42	-91.51	-51.26	-165.58	24.42
	-130.84	-15.57	-100.37	-56.64	-181.61	25.51
	-134.69	-16.75	-103.32	-58.67	-186.95	25.16
	-134.69	-16.75	-103.32	-58.67	-186.95	25.16
	-130.84	-16.99	-100.37	-57.35	-181.61	23.38
	-119.30	-16.26	-91.51	-52.68	-165.58	20.15
	-100.06	-14.58	-76.75	-44.65	-138.88	15.49
	-73.12	-11.94	-56.09	-33.27	-101.49	9.39

	-38.48	-8.34	-29.52	-18.54	-53.41	1.86
	-3.79	3.85	-0.46	2.95	-7.12	5.34
	1.73	53.88	20.98	41.33	-17.53	74.78
	8.19	111.60	45.77	85.61	-29.38	154.90
	15.62	177.02	73.91	135.79	-42.67	245.70
	24.01	250.14	105.41	191.88	-57.40	347.19
2.35	38.01	245.26	110.64	188.24	-34.63	340.40
	28.26	173.57	78.99	133.22	-22.46	240.90
	19.47	109.42	50.62	83.98	-11.68	151.87
	11.63	52.83	25.55	40.54	-2.29	73.32
	2.82	4.93	2.82	3.78	2.82	6.97
	-37.73	-1.20	-28.96	-14.70	-52.37	12.30
	-71.69	-6.19	-55.02	-29.88	-99.50	17.51
	-98.11	-10.23	-75.30	-41.77	-136.16	21.32
	-116.97	-13.31	-89.78	-50.36	-162.35	23.73
	-128.29	-15.45	-98.46	-55.66	-178.06	24.76
	-132.06	-16.64	-101.36	-57.66	-183.29	24.39
	-132.06	-16.64	-101.36	-57.66	-183.29	24.39
	-128.29	-16.87	-98.46	-56.37	-178.06	22.63
	-116.97	-16.16	-89.78	-51.78	-162.35	19.47
	-98.11	-14.49	-75.30	-43.90	-136.16	14.92
	-71.69	-11.88	-55.02	-32.73	-99.50	8.97
	-37.73	-8.31	-28.96	-18.25	-52.37	1.64
	-3.79	3.77	-0.49	2.90	-7.10	5.24
	1.68	52.83	20.58	40.54	-17.22	73.32
	8.10	109.42	44.93	83.98	-28.74	151.87
15.47	173.57	72.59	133.22	-41.65	240.90	
23.79	245.26	103.53	188.24	-55.96	340.40	
2.40	39.05	241.84	110.10	186.00	-32.00	335.58
	29.00	171.15	78.60	131.63	-20.60	237.49
	19.94	107.90	50.38	82.99	-10.50	149.72
	11.86	52.09	25.44	40.06	-1.72	72.28
	2.79	4.94	2.79	3.77	2.79	7.00
	-37.21	-1.36	-28.62	-14.61	-51.63	11.90
	-70.69	-6.49	-54.37	-29.72	-98.09	16.74
	-96.73	-10.64	-74.40	-41.55	-134.23	20.27
	-115.34	-13.81	-88.71	-50.10	-160.05	22.48
	-126.50	-15.99	-97.29	-55.37	-175.54	23.39
	-130.22	-17.20	-100.15	-57.37	-180.70	22.97
	-130.22	-17.20	-100.15	-57.37	-180.70	22.97
	-126.50	-17.42	-97.29	-56.08	-175.54	21.25
	-115.34	-16.65	-88.71	-51.52	-160.05	18.22
	-96.73	-14.91	-74.40	-43.68	-134.23	13.87
-70.69	-12.18	-54.37	-32.56	-98.09	8.21	
-37.21	-8.47	-28.62	-18.17	-51.63	1.23	

		-3.77	3.72	-0.49	2.86	-7.06	5.16
		1.90	52.09	20.46	40.06	-16.66	72.28
		8.56	107.90	44.69	82.99	-27.57	149.72
		16.20	171.15	72.20	131.63	-39.79	237.49
		24.83	241.84	102.99	186.00	-53.33	335.58
		38.84	237.35	108.37	182.65	-30.69	329.34
		28.86	167.97	77.38	129.26	-19.67	233.07
		19.85	105.89	49.61	81.49	-9.92	146.93
		11.81	51.12	25.06	39.34	-1.44	70.93
		2.74	4.94	2.74	3.75	2.74	6.99
		-36.51	-1.33	-28.10	-14.35	-50.67	11.69
		-69.38	-6.43	-53.39	-29.22	-96.27	16.35
		-94.94	-10.56	-73.06	-40.86	-131.73	19.74
		-113.20	-13.71	-87.11	-49.28	-157.07	21.85
		-124.15	-15.89	-95.54	-54.47	-172.27	22.70
		-127.80	-17.09	-98.35	-56.44	-177.34	22.27
		-127.80	-17.09	-98.35	-56.44	-177.34	22.27
		-124.15	-17.31	-95.54	-55.18	-172.27	20.56
		-113.20	-16.56	-87.11	-50.70	-157.07	17.59
		-94.94	-14.83	-73.06	-42.99	-131.73	13.34
		-69.38	-12.12	-53.39	-32.06	-96.27	7.82
		-36.51	-8.44	-28.10	-17.90	-50.67	1.03
		-3.78	3.65	-0.52	2.81	-7.03	5.07
		1.86	51.12	20.09	39.34	-16.37	70.93
		8.47	105.89	43.92	81.49	-26.98	146.93
		16.06	167.97	70.98	129.26	-38.86	233.07
		24.62	237.35	101.26	182.65	-52.01	329.34
		38.65	233.04	106.71	179.44	-29.42	323.34
		28.72	164.92	76.20	126.99	-18.77	228.83
		19.76	103.97	48.87	80.06	-9.35	144.26
		11.77	50.19	24.71	38.65	-1.17	69.64
		2.69	4.93	2.69	3.72	2.69	6.99
		-35.85	-1.30	-27.61	-14.09	-49.75	11.50
		-68.12	-6.37	-52.45	-28.73	-94.52	15.98
		-93.22	-10.48	-71.78	-40.20	-129.34	19.23
		-111.14	-13.62	-85.58	-48.49	-154.21	21.25
		-121.90	-15.78	-93.86	-53.60	-169.13	22.03
		-125.48	-16.98	-96.62	-55.55	-174.11	21.58
		-125.48	-16.98	-96.62	-55.55	-174.11	21.58
		-121.90	-17.21	-93.86	-54.31	-169.13	19.90
		-111.14	-16.46	-85.58	-49.91	-154.21	16.98
		-93.22	-14.75	-71.78	-42.33	-129.34	12.83
		-68.12	-12.06	-52.45	-31.58	-94.52	7.45
		-35.85	-8.41	-27.61	-17.65	-49.75	0.83
		-3.78	3.59	-0.55	2.76	-7.02	4.97

	1.82	50.19	19.73	38.65	-16.10	69.64
	8.38	103.97	43.18	80.06	-26.42	144.26
	15.92	164.92	69.80	126.99	-37.97	228.83
	24.43	233.04	99.60	179.44	-50.75	323.34
2.55	38.46	228.90	105.12	176.35	-28.20	317.58
	28.58	161.99	75.08	124.80	-17.91	224.75
	19.67	102.13	48.16	78.68	-8.81	141.69
	11.73	49.30	24.36	37.98	-0.91	68.40
	2.64	4.92	2.64	3.70	2.64	6.99
	-35.22	-1.27	-27.13	-13.85	-48.86	11.31
	-66.91	-6.32	-51.55	-28.27	-92.83	15.63
	-91.56	-10.41	-70.54	-39.56	-127.03	18.75
	-109.17	-13.53	-84.11	-47.73	-151.46	20.67
	-119.73	-15.69	-92.25	-52.77	-166.12	21.40
	-123.25	-16.88	-94.96	-54.69	-171.01	20.93
	-123.25	-16.88	-94.96	-54.69	-171.01	20.93
	-119.73	-17.11	-92.25	-53.48	-166.12	19.26
	-109.17	-16.37	-84.11	-49.15	-151.46	16.40
	-91.56	-14.67	-70.54	-41.69	-127.03	12.35
	-66.91	-12.01	-51.55	-31.11	-92.83	7.10
	-35.22	-8.38	-27.13	-17.40	-48.86	0.65
	-3.78	3.52	-0.57	2.71	-7.00	4.89
	1.78	49.30	19.39	37.98	-15.84	68.40
	8.30	102.13	42.47	78.68	-25.87	141.69
	15.79	161.99	68.68	124.80	-37.10	224.75
	24.24	228.90	98.01	176.35	-49.53	317.58
2.60	39.51	226.15	104.82	174.61	-25.81	313.70
	29.32	160.04	74.86	123.57	-16.21	222.01
	20.14	100.90	48.02	77.90	-7.74	139.96
	11.95	48.71	24.30	37.61	-0.39	67.57
	2.62	4.94	2.62	3.69	2.62	7.01
	-34.79	-1.43	-26.86	-13.80	-48.26	10.94
	-66.10	-6.63	-51.04	-28.18	-91.70	14.93
	-90.46	-10.83	-69.84	-39.44	-125.48	17.79
	-107.86	-14.03	-83.27	-47.58	-149.61	19.53
	-118.29	-16.23	-91.33	-52.61	-164.09	20.14
	-121.77	-17.44	-94.02	-54.53	-168.92	19.64
	-121.77	-17.44	-94.02	-54.53	-168.92	19.64
	-118.29	-17.66	-91.33	-53.32	-164.09	18.01
	-107.86	-16.87	-83.27	-49.00	-149.61	15.26
	-90.46	-15.09	-69.84	-41.57	-125.48	11.39
	-66.10	-12.31	-51.04	-31.02	-91.70	6.39
	-34.79	-8.54	-26.86	-17.36	-48.26	0.28
	-3.77	3.48	-0.58	2.69	-6.96	4.83
	2.00	48.71	19.32	37.61	-15.32	67.57

	8.77	100.90	42.33	77.90	-24.80	139.96
	16.53	160.04	68.46	123.57	-35.41	222.01
	25.29	226.15	97.71	174.61	-47.14	313.70
2.65	39.33	222.32	103.34	171.75	-24.68	308.37
	29.20	157.33	73.82	121.55	-15.42	218.23
	20.06	99.19	47.36	76.63	-7.24	137.58
	11.92	47.88	23.98	36.99	-0.15	66.42
	2.57	4.93	2.57	3.67	2.57	7.01
	-34.20	-1.40	-26.42	-13.57	-47.44	10.77
	-64.98	-6.57	-50.20	-27.75	-90.14	14.60
	-88.93	-10.75	-68.70	-38.85	-123.35	17.34
	-106.03	-13.94	-81.91	-46.88	-147.07	18.99
	-116.29	-16.14	-89.84	-51.84	-161.30	19.56
	-119.71	-17.35	-92.48	-53.73	-166.05	19.03
	-119.71	-17.35	-92.48	-53.73	-166.05	19.03
	-116.29	-17.56	-89.84	-52.55	-161.30	17.42
	-106.03	-16.79	-81.91	-48.30	-147.07	14.73
	-88.93	-15.02	-68.70	-40.98	-123.35	10.94
	-64.98	-12.26	-50.20	-30.59	-90.14	6.07
	-34.20	-8.51	-26.42	-17.13	-47.44	0.11
	-3.77	3.42	-0.60	2.64	-6.94	4.74
	1.96	47.88	19.00	36.99	-15.08	66.42
	8.69	99.19	41.68	76.63	-24.30	137.58
	16.40	157.33	67.42	121.55	-34.61	218.23
	25.11	222.32	96.23	171.75	-46.01	308.37
2.70	39.16	218.63	101.92	169.00	-23.60	303.24
	29.08	154.72	72.81	119.60	-14.65	214.60
	19.99	97.54	46.73	75.40	-6.76	135.29
	11.88	47.09	23.67	36.40	0.09	65.31
	2.53	4.92	2.53	3.65	2.53	7.01
	-33.63	-1.38	-26.00	-13.36	-46.65	10.60
	-63.91	-6.52	-49.40	-27.33	-88.64	14.28
	-87.45	-10.69	-67.60	-38.28	-121.30	16.91
	-104.27	-13.86	-80.60	-46.20	-144.62	18.47
	-114.36	-16.05	-88.40	-51.10	-158.62	18.99
	-117.72	-17.26	-91.00	-52.97	-163.28	18.45
	-117.72	-17.26	-91.00	-52.97	-163.28	18.45
	-114.36	-17.48	-88.40	-51.81	-158.62	16.86
	-104.27	-16.71	-80.60	-47.62	-144.62	14.21
	-87.45	-14.95	-67.60	-40.41	-121.30	10.51
	-63.91	-12.21	-49.40	-30.17	-88.64	5.75
	-33.63	-8.49	-26.00	-16.91	-46.65	-0.06
	-3.77	3.36	-0.62	2.60	-6.93	4.67
	1.93	47.09	18.70	36.40	-14.85	65.31
	8.61	97.54	41.04	75.40	-23.82	135.29

	16.28	154.72	66.41	119.60	-33.85	214.60
	24.94	218.63	94.81	169.00	-44.93	303.24
2.75	39.00	215.07	100.55	166.34	-22.56	298.29
	28.97	152.21	71.84	117.72	-13.91	211.10
	19.91	95.96	46.12	74.22	-6.29	133.08
	11.85	46.32	23.38	35.83	0.31	64.25
	2.49	4.92	2.49	3.63	2.49	7.01
	-33.09	-1.35	-25.59	-13.15	-45.89	10.44
	-62.87	-6.48	-48.62	-26.93	-87.19	13.98
	-86.03	-10.62	-66.54	-37.73	-119.32	16.49
	-102.57	-13.79	-79.33	-45.55	-142.26	17.98
	-112.50	-15.97	-87.01	-50.38	-156.03	18.44
	-115.81	-17.17	-89.57	-52.23	-160.62	17.89
	-115.81	-17.17	-89.57	-52.23	-160.62	17.89
	-112.50	-17.39	-87.01	-51.09	-156.03	16.31
	-102.57	-16.63	-79.33	-46.97	-142.26	13.71
	-86.03	-14.89	-66.54	-39.87	-119.32	10.09
	-62.87	-12.17	-48.62	-29.78	-87.19	5.45
	-33.09	-8.46	-25.59	-16.70	-45.89	-0.22
	-3.78	3.31	-0.64	2.56	-6.91	4.59
	1.89	46.32	18.40	35.83	-14.62	64.25
	8.54	95.96	40.43	74.22	-23.35	133.08
	16.17	152.21	65.45	117.72	-33.11	211.10
	24.78	215.07	93.44	166.34	-43.89	298.29
2.80	38.96	211.77	99.36	163.91	-21.43	293.69
	28.94	149.87	71.00	116.00	-13.11	207.84
	19.90	94.48	45.59	73.13	-5.79	131.03
	11.84	45.61	23.12	35.30	0.55	63.26
	2.46	4.92	2.46	3.61	2.46	7.01
	-32.58	-1.35	-25.22	-12.96	-45.18	10.27
	-61.90	-6.47	-47.91	-26.58	-85.85	13.65
	-84.71	-10.61	-65.56	-37.25	-117.48	16.04
	-101.00	-13.77	-78.17	-44.98	-140.07	17.44
	-110.77	-15.95	-85.74	-49.76	-153.62	17.85
	-114.03	-17.15	-88.26	-51.58	-158.14	17.28
	-114.03	-17.15	-88.26	-51.58	-158.14	17.28
	-110.77	-17.37	-85.74	-50.47	-153.62	15.72
	-101.00	-16.61	-78.17	-46.40	-140.07	13.17
	-84.71	-14.87	-65.56	-39.39	-117.48	9.64
	-61.90	-12.15	-47.91	-29.43	-85.85	5.12
	-32.58	-8.46	-25.22	-16.52	-45.18	-0.39
	-3.78	3.26	-0.66	2.52	-6.89	4.52
	1.88	45.61	18.15	35.30	-14.38	63.26
	8.52	94.48	39.90	73.13	-22.85	131.03
16.14	149.87	64.60	116.00	-32.31	207.84	

	24.74	211.77	92.25	163.91	-42.76	293.69
2.85	38.81	208.46	98.08	161.44	-20.46	289.09
	28.84	147.53	70.10	114.25	-12.43	204.59
	19.83	93.01	45.02	72.03	-5.35	128.98
	11.81	44.90	22.85	34.77	0.76	62.27
	2.42	4.91	2.42	3.59	2.42	7.00
	-32.07	-1.32	-24.84	-12.77	-44.48	10.12
	-60.93	-6.42	-47.19	-26.21	-84.50	13.36
	-83.38	-10.55	-64.58	-36.74	-115.64	15.65
	-99.42	-13.70	-77.00	-44.37	-137.87	16.98
	-109.04	-15.87	-84.45	-49.09	-151.22	17.35
	-112.25	-17.07	-86.93	-50.90	-155.66	16.76
	-112.25	-17.07	-86.93	-50.90	-155.66	16.76
	-109.04	-17.29	-84.45	-49.80	-151.22	15.21
	-99.42	-16.54	-77.00	-45.79	-137.87	12.71
	-83.38	-14.81	-64.58	-38.88	-115.64	9.25
	-60.93	-12.11	-47.19	-29.05	-84.50	4.83
	-32.07	-8.43	-24.84	-16.32	-44.48	-0.54
	-3.78	3.21	-0.68	2.48	-6.88	4.45
	1.85	44.90	17.87	34.77	-14.17	62.27
	8.46	93.01	39.33	72.03	-22.42	128.98
16.04	147.53	63.70	114.25	-31.62	204.59	
24.59	208.46	90.97	161.44	-41.79	289.09	
2.90	38.67	205.27	96.86	159.06	-19.52	284.65
	28.73	145.27	69.23	112.57	-11.76	201.44
	19.77	91.58	44.47	70.97	-4.93	127.00
	11.77	44.21	22.58	34.26	0.96	61.31
	2.39	4.91	2.39	3.57	2.39	7.00
	-31.58	-1.30	-24.47	-12.58	-43.79	9.98
	-60.00	-6.38	-46.49	-25.85	-83.20	13.09
	-82.11	-10.49	-63.62	-36.25	-113.86	15.27
	-97.90	-13.63	-75.86	-43.79	-135.75	16.53
	-107.37	-15.80	-83.20	-48.45	-148.89	16.85
	-110.53	-16.99	-85.65	-50.24	-153.27	16.25
	-110.53	-16.99	-85.65	-50.24	-153.27	16.25
	-107.37	-17.22	-83.20	-49.16	-148.89	14.72
	-97.90	-16.47	-75.86	-45.21	-135.75	12.26
	-82.11	-14.76	-63.62	-38.39	-113.86	8.87
	-60.00	-12.07	-46.49	-28.69	-83.20	4.56
	-31.58	-8.41	-24.47	-16.13	-43.79	-0.69
	-3.78	3.16	-0.70	2.45	-6.86	4.38
	1.82	44.21	17.61	34.26	-13.97	61.31
	8.39	91.58	38.78	70.97	-22.00	127.00
15.94	145.27	62.83	112.57	-30.96	201.44	
24.45	205.27	89.75	159.06	-40.85	284.65	

2.95	38.53	202.19	95.67	156.76	-18.61	280.36
	28.64	143.09	68.39	110.94	-11.12	198.41
	19.71	90.21	43.94	69.94	-4.53	125.08
	11.74	43.55	22.33	33.76	1.16	60.38
	2.35	4.90	2.35	3.55	2.35	7.00
	-31.11	-1.28	-24.12	-12.39	-43.13	9.84
	-59.10	-6.34	-45.82	-25.50	-81.95	12.82
	-80.87	-10.44	-62.70	-35.78	-112.14	14.91
	-96.43	-13.56	-74.76	-43.22	-133.71	16.09
	-105.76	-15.72	-82.00	-47.83	-146.65	16.38
	-108.87	-16.92	-84.41	-49.60	-150.96	15.76
	-108.87	-16.92	-84.41	-49.60	-150.96	15.76
	-105.76	-17.15	-82.00	-48.54	-146.65	14.25
	-96.43	-16.41	-74.76	-44.64	-133.71	11.83
	-80.87	-14.70	-62.70	-37.91	-112.14	8.51
	-59.10	-12.03	-45.82	-28.35	-81.95	4.29
	-31.11	-8.39	-24.12	-15.95	-43.13	-0.83
	-3.78	3.11	-0.72	2.41	-6.85	4.31
	1.79	43.55	17.35	33.76	-13.77	60.38
	8.33	90.21	38.25	69.94	-21.59	125.08
15.84	143.09	61.99	110.94	-30.32	198.41	
24.31	202.19	88.56	156.76	-39.94	280.36	
3.00	38.40	199.21	94.53	154.54	-17.73	276.21
	28.54	140.98	67.58	109.37	-10.50	195.47
	19.65	88.88	43.43	68.95	-4.14	123.23
	11.72	42.91	22.08	33.29	1.35	59.49
	2.32	4.90	2.32	3.53	2.32	7.00
	-30.65	-1.26	-23.78	-12.22	-42.49	9.70
	-58.23	-6.30	-45.17	-25.17	-80.74	12.57
	-79.68	-10.38	-61.82	-35.32	-110.49	14.56
	-95.01	-13.50	-73.70	-42.68	-131.73	15.68
	-104.20	-15.65	-80.84	-47.23	-144.48	15.92
	-107.27	-16.85	-83.21	-48.98	-148.73	15.29
	-107.27	-16.85	-83.21	-48.98	-148.73	15.29
	-104.20	-17.08	-80.84	-47.94	-144.48	13.79
	-95.01	-16.34	-73.70	-44.10	-131.73	11.41
	-79.68	-14.65	-61.82	-37.46	-110.49	8.16
	-58.23	-11.99	-45.17	-28.01	-80.74	4.03
	-30.65	-8.37	-23.78	-15.77	-42.49	-0.96
	-3.78	3.06	-0.73	2.38	-6.84	4.25
	1.76	42.91	17.11	33.29	-13.58	59.49
	8.27	88.88	37.74	68.95	-21.20	123.23
15.74	140.98	61.18	109.37	-29.69	195.47	
24.18	199.21	87.42	154.54	-39.06	276.21	
3.05	38.27	196.33	93.42	152.39	-16.88	272.20

	28.45	138.94	66.80	107.85	-9.90	192.64
	19.59	87.59	42.94	67.99	-3.76	121.44
	11.69	42.29	21.84	32.82	1.53	58.63
	2.29	4.89	2.29	3.52	2.29	7.00
	-30.20	-1.24	-23.44	-12.05	-41.88	9.57
	-57.39	-6.26	-44.54	-24.85	-79.57	12.32
	-78.53	-10.33	-60.96	-34.88	-108.88	14.22
	-93.63	-13.44	-72.68	-42.15	-129.82	15.27
	-102.69	-15.59	-79.71	-46.65	-142.38	15.48
	-105.71	-16.78	-82.06	-48.39	-146.57	14.83
	-105.71	-16.78	-82.06	-48.39	-146.57	14.83
	-102.69	-17.01	-79.71	-47.36	-142.38	13.34
	-93.63	-16.28	-72.68	-43.57	-129.82	11.00
	-78.53	-14.60	-60.96	-37.01	-108.88	7.82
	-57.39	-11.95	-44.54	-27.69	-79.57	3.79
	-30.20	-8.35	-23.44	-15.60	-41.88	-1.09
	-3.79	3.02	-0.75	2.34	-6.82	4.19
	1.73	42.29	16.87	32.82	-13.40	58.63
	8.21	87.59	37.25	67.99	-20.82	121.44
	15.65	138.94	60.40	107.85	-29.09	192.64
	24.05	196.33	86.31	152.39	-38.21	272.20
3.10	38.15	193.54	92.35	150.31	-16.06	268.32
	28.36	136.97	66.04	106.37	-9.31	189.89
	19.53	86.35	42.46	67.06	-3.39	119.71
	11.66	41.69	21.61	32.37	1.71	57.79
	2.25	4.89	2.25	3.50	2.25	6.99
	-29.78	-1.22	-23.12	-11.88	-41.28	9.44
	-56.57	-6.23	-43.94	-24.53	-78.43	12.08
	-77.42	-10.28	-60.12	-34.45	-107.33	13.89
	-92.30	-13.38	-71.69	-41.64	-127.97	14.88
	-101.24	-15.52	-78.62	-46.09	-140.35	15.04
	-104.21	-16.71	-80.94	-47.81	-144.48	14.39
	-104.21	-16.71	-80.94	-47.81	-144.48	14.39
	-101.24	-16.95	-78.62	-46.80	-140.35	12.91
	-92.30	-16.22	-71.69	-43.06	-127.97	10.61
	-77.42	-14.55	-60.12	-36.58	-107.33	7.49
	-56.57	-11.92	-43.94	-27.38	-78.43	3.55
	-29.78	-8.33	-23.12	-15.44	-41.28	-1.22
	-3.79	2.98	-0.77	2.31	-6.81	4.13
	1.71	41.69	16.64	32.37	-13.22	57.79
	8.16	86.35	36.77	67.06	-20.45	119.71
	15.56	136.97	59.64	106.37	-28.51	189.89
	23.93	193.54	85.24	150.31	-37.39	268.32
3.15	39.33	192.14	92.62	149.60	-13.96	266.33
	29.20	135.98	66.23	105.87	-7.83	188.48

	20.06	85.72	42.58	66.75	-2.45	118.82
	11.92	41.38	21.67	32.22	2.16	57.36
	2.24	4.90	2.24	3.50	2.24	7.02
	-29.56	-1.40	-23.02	-11.92	-40.97	9.12
	-56.16	-6.57	-43.73	-24.61	-77.85	11.46
	-76.86	-10.75	-59.84	-34.56	-106.53	13.05
	-91.64	-13.94	-71.35	-41.76	-127.02	13.88
	-100.51	-16.14	-78.25	-46.23	-139.31	13.95
	-103.46	-17.35	-80.55	-47.96	-143.41	13.26
	-103.46	-17.35	-80.55	-47.96	-143.41	13.26
	-100.51	-17.56	-78.25	-46.94	-139.31	11.81
	-91.64	-16.79	-71.35	-43.19	-127.02	9.61
	-76.86	-15.02	-59.84	-36.69	-106.53	6.65
	-56.16	-12.26	-43.73	-27.46	-77.85	2.93
	-29.56	-8.51	-23.02	-15.48	-40.97	-1.54
	-3.77	2.96	-0.76	2.30	-6.78	4.10
	1.96	41.38	16.69	32.22	-12.77	57.36
	8.69	85.72	36.89	66.75	-19.52	118.82
	16.40	135.98	59.83	105.87	-27.02	188.48
	25.11	192.14	85.51	149.60	-35.29	266.33
	39.21	189.53	91.61	147.65	-13.19	262.69
	29.12	134.13	65.51	104.49	-7.28	185.90
	20.01	84.56	42.13	65.87	-2.11	117.20
	11.89	40.82	21.45	31.80	2.33	56.58
	2.22	4.90	2.22	3.49	2.22	7.02
	-29.16	-1.38	-22.72	-11.77	-40.41	9.00
	-55.40	-6.54	-43.16	-24.32	-76.79	11.24
	-75.81	-10.71	-59.06	-34.16	-105.07	12.74
	-90.39	-13.89	-70.42	-41.28	-125.28	13.51
	-99.14	-16.08	-77.23	-45.70	-137.41	13.54
	-102.05	-17.28	-79.50	-47.41	-141.45	12.84
	-102.05	-17.28	-79.50	-47.41	-141.45	12.84
	-99.14	-17.50	-77.23	-46.41	-137.41	11.41
	-90.39	-16.73	-70.42	-42.71	-125.28	9.24
	-75.81	-14.97	-59.06	-36.29	-105.07	6.34
	-55.40	-12.23	-43.16	-27.16	-76.79	2.71
	-29.16	-8.49	-22.72	-15.32	-40.41	-1.66
	-3.77	2.92	-0.78	2.27	-6.77	4.04
	1.94	40.82	16.48	31.80	-12.60	56.58
	8.63	84.56	36.44	65.87	-19.17	117.20
	16.32	134.13	59.12	104.49	-26.48	185.90
	24.99	189.53	84.50	147.65	-34.52	262.69
3.20	39.10	186.99	90.63	145.76	-12.44	259.16
	29.04	132.33	64.82	103.15	-6.75	183.40
	19.96	83.43	41.69	65.03	-1.78	115.62
3.25						

	11.87	40.27	21.24	31.39	2.49	55.82
	2.19	4.90	2.19	3.47	2.19	7.02
	-28.77	-1.37	-22.42	-11.62	-39.87	8.89
	-54.66	-6.51	-42.61	-24.03	-75.75	11.02
	-74.80	-10.66	-58.30	-33.77	-103.66	12.44
	-89.18	-13.83	-69.52	-40.82	-123.60	13.15
	-97.81	-16.02	-76.24	-45.19	-135.56	13.15
	-100.69	-17.22	-78.48	-46.89	-139.55	12.44
	-100.69	-17.22	-78.48	-46.89	-139.55	12.44
	-97.81	-17.44	-76.24	-45.90	-135.56	11.02
	-89.18	-16.68	-69.52	-42.24	-123.60	8.89
	-74.80	-14.93	-58.30	-35.90	-103.66	6.04
	-54.66	-12.19	-42.61	-26.88	-75.75	2.49
	-28.77	-8.48	-22.42	-15.17	-39.87	-1.78
	-3.77	2.88	-0.79	2.24	-6.75	3.99
	1.91	40.27	16.27	31.39	-12.44	55.82
	8.58	83.43	36.01	65.03	-18.84	115.62
	16.24	132.33	58.43	103.15	-25.95	183.40
	24.88	186.99	83.52	145.76	-33.77	259.16
	38.99	184.53	89.69	143.92	-11.72	255.74
	28.96	130.59	64.16	101.85	-6.24	180.98
	19.91	82.33	41.27	64.21	-1.45	114.10
	11.84	39.75	21.04	31.00	2.64	55.08
	2.16	4.89	2.16	3.46	2.16	7.01
	-28.39	-1.35	-22.14	-11.47	-39.34	8.78
	-53.94	-6.47	-42.07	-23.76	-74.75	10.81
	-73.81	-10.62	-57.57	-33.39	-102.29	12.15
	-88.01	-13.78	-68.64	-40.37	-121.97	12.81
	-96.52	-15.96	-75.28	-44.70	-133.77	12.77
	-99.36	-17.16	-77.50	-46.38	-137.70	12.05
	-99.36	-17.16	-77.50	-46.38	-137.70	12.05
	-96.52	-17.38	-75.28	-45.41	-133.77	10.64
	-88.01	-16.62	-68.64	-41.79	-121.97	8.54
	-73.81	-14.88	-57.57	-35.52	-102.29	5.75
	-53.94	-12.16	-42.07	-26.60	-74.75	2.28
	-28.39	-8.46	-22.14	-15.03	-39.34	-1.89
	-3.78	2.84	-0.81	2.21	-6.74	3.93
	1.89	39.75	16.06	31.00	-12.29	55.08
	8.53	82.33	35.59	64.21	-18.52	114.10
	16.16	130.59	57.76	101.85	-25.44	180.98
	24.77	184.53	82.58	143.92	-33.05	255.74
	40.17	183.44	90.06	143.44	-9.72	254.16
	29.80	129.82	64.42	101.51	-4.83	179.87
	20.44	81.84	41.44	63.99	-0.56	113.39
	12.10	39.51	21.12	30.89	3.07	54.74

	2.15	4.91	2.15	3.46	2.15	7.04
	-28.22	-1.53	-22.07	-11.53	-39.10	8.47
	-53.62	-6.82	-41.93	-23.87	-74.29	10.23
	-73.37	-11.09	-57.37	-33.54	-101.66	11.35
	-87.49	-14.35	-68.41	-40.55	-121.22	11.86
	-95.95	-16.58	-75.03	-44.90	-132.95	11.73
	-98.77	-17.80	-77.23	-46.58	-136.86	10.98
	-98.77	-17.80	-77.23	-46.58	-136.86	10.98
	-95.95	-18.00	-75.03	-45.61	-132.95	9.60
	-87.49	-17.19	-68.41	-41.97	-121.22	7.59
	-73.37	-15.36	-57.37	-35.67	-101.66	4.96
	-53.62	-12.51	-41.93	-26.71	-74.29	1.69
	-28.22	-8.64	-22.07	-15.09	-39.10	-2.20
	-3.76	2.82	-0.80	2.21	-6.71	3.91
	2.14	39.51	16.14	30.89	-11.86	54.74
	9.06	81.84	35.75	63.99	-17.63	113.39
	17.00	129.82	58.02	101.51	-24.03	179.87
	25.95	183.44	82.95	143.44	-31.05	254.16
	40.07	181.12	89.17	141.71	-9.04	250.94
	29.72	128.18	63.79	100.28	-4.35	177.59
	20.39	80.81	41.04	63.22	-0.26	111.96
	12.07	39.01	20.93	30.52	3.22	54.05
	2.13	4.90	2.13	3.45	2.13	7.04
	-27.86	-1.52	-21.80	-11.39	-38.61	8.36
	-52.94	-6.79	-41.42	-23.60	-73.35	10.03
	-72.45	-11.05	-56.68	-33.18	-100.37	11.08
	-86.38	-14.30	-67.58	-40.12	-119.68	11.53
	-94.74	-16.53	-74.12	-44.43	-131.26	11.37
	-97.53	-17.75	-76.30	-46.10	-135.12	10.61
	-97.53	-17.75	-76.30	-46.10	-135.12	10.61
	-94.74	-17.95	-74.12	-45.14	-131.26	9.24
	-86.38	-17.14	-67.58	-41.54	-119.68	7.27
	-72.45	-15.32	-56.68	-35.31	-100.37	4.68
	-52.94	-12.48	-41.42	-26.45	-73.35	1.49
	-27.86	-8.62	-21.80	-14.95	-38.61	-2.30
	-3.76	2.79	-0.82	2.18	-6.70	3.86
	2.12	39.01	15.95	30.52	-11.71	54.05
	9.02	80.81	35.35	63.22	-17.32	111.96
	16.92	128.18	57.39	100.28	-23.54	177.59
	25.85	181.12	82.06	141.71	-30.37	250.94
	39.96	178.87	88.31	140.03	-8.38	247.81
	29.65	126.59	63.18	99.10	-3.88	175.37
	20.35	79.80	40.66	62.47	0.03	110.56
	12.05	38.53	20.74	30.16	3.36	53.37
	2.10	4.90	2.10	3.44	2.10	7.04

	-27.52	-1.50	-21.54	-11.26	-38.12	8.26
	-52.29	-6.76	-40.93	-23.35	-72.44	9.83
	-71.55	-11.01	-56.01	-32.83	-99.12	10.82
	-85.31	-14.25	-66.78	-39.71	-118.19	11.22
	-93.56	-16.47	-73.25	-43.98	-129.62	11.03
	-96.31	-17.69	-75.40	-45.64	-133.43	10.26
	-96.31	-17.69	-75.40	-45.64	-133.43	10.26
	-93.56	-17.90	-73.25	-44.69	-129.62	8.90
	-85.31	-17.09	-66.78	-41.13	-118.19	6.95
	-71.55	-15.27	-56.01	-34.97	-99.12	4.42
	-52.29	-12.45	-40.93	-26.20	-72.44	1.30
	-27.52	-8.61	-21.54	-14.82	-38.12	-2.40
	-3.76	2.75	-0.83	2.15	-6.69	3.81
	2.10	38.53	15.77	30.16	-11.57	53.37
	8.97	79.80	34.97	62.47	-17.03	110.56
	16.85	126.59	56.78	99.10	-23.08	175.37
	25.74	178.87	81.20	140.03	-29.71	247.81
	39.98	176.80	87.58	138.52	-7.62	244.93
	29.66	125.12	62.67	98.03	-3.34	173.33
	20.35	78.88	40.33	61.80	0.37	109.27
	12.06	38.08	20.59	29.83	3.53	52.75
	2.08	4.90	2.08	3.43	2.08	7.04
	-27.20	-1.50	-21.31	-11.15	-37.68	8.15
	-51.68	-6.76	-40.49	-23.14	-71.59	9.61
	-70.72	-11.02	-55.41	-32.55	-97.97	10.51
	-84.32	-14.26	-66.06	-39.36	-116.81	10.85
	-92.48	-16.48	-72.45	-43.60	-128.11	10.63
	-95.20	-17.70	-74.59	-45.25	-131.88	9.85
	-95.20	-17.70	-74.59	-45.25	-131.88	9.85
	-92.48	-17.91	-72.45	-44.31	-128.11	8.50
	-84.32	-17.10	-66.06	-40.79	-116.81	6.59
	-70.72	-15.28	-55.41	-34.68	-97.97	4.12
	-51.68	-12.45	-40.49	-25.98	-71.59	1.08
	-27.20	-8.61	-21.31	-14.70	-37.68	-2.52
	-3.76	2.72	-0.84	2.13	-6.68	3.77
	2.10	38.08	15.61	29.83	-11.40	52.75
	8.98	78.88	34.65	61.80	-16.69	109.27
	16.86	125.12	56.27	98.03	-22.54	173.33
	25.76	176.80	80.47	138.52	-28.95	244.93
	39.89	174.68	86.77	136.93	-7.00	241.97
	29.59	123.62	62.09	96.91	-2.90	171.24
	20.31	77.93	39.97	61.09	0.65	107.96
	12.04	37.62	20.41	29.49	3.66	52.12
	2.06	4.90	2.06	3.41	2.06	7.04
	-26.87	-1.49	-21.07	-11.02	-37.23	8.05

	-51.06	-6.74	-40.03	-22.90	-70.73	9.43
	-69.87	-10.98	-54.77	-32.22	-96.79	10.26
	-83.31	-14.21	-65.31	-38.97	-115.40	10.56
	-91.37	-16.43	-71.63	-43.17	-126.57	10.30
	-94.06	-17.65	-73.73	-44.81	-130.29	9.51
	-94.06	-17.65	-73.73	-44.81	-130.29	9.51
	-91.37	-17.86	-71.63	-43.88	-126.57	8.17
	-83.31	-17.05	-65.31	-40.40	-115.40	6.29
	-69.87	-15.24	-54.77	-34.35	-96.79	3.87
	-51.06	-12.42	-40.03	-25.75	-70.73	0.90
	-26.87	-8.60	-21.07	-14.58	-37.23	-2.62
	-3.76	2.69	-0.85	2.11	-6.67	3.72
	2.08	37.62	15.43	29.49	-11.27	52.12
	8.94	77.93	34.28	61.09	-16.41	107.96
	16.80	123.62	55.69	96.91	-22.10	171.24
	25.67	174.68	79.66	136.93	-28.33	241.97
	39.79	172.62	85.97	135.39	-6.39	239.10
	29.53	122.16	61.53	95.82	-2.47	169.21
	20.27	77.01	39.62	60.41	0.92	106.68
	12.02	37.18	20.24	29.16	3.79	51.50
	2.03	4.89	2.03	3.40	2.03	7.03
	-26.56	-1.47	-20.83	-10.90	-36.78	7.96
	-50.46	-6.71	-39.58	-22.67	-69.89	9.25
	-69.05	-10.94	-54.16	-31.90	-95.64	10.02
	-82.32	-14.17	-64.57	-38.60	-114.03	10.27
	-90.29	-16.38	-70.82	-42.76	-125.07	9.99
	-92.95	-17.60	-72.90	-44.38	-128.75	9.18
	-92.95	-17.60	-72.90	-44.38	-128.75	9.18
	-90.29	-17.81	-70.82	-43.47	-125.07	7.85
	-82.32	-17.01	-64.57	-40.02	-114.03	6.00
	-69.05	-15.21	-54.16	-34.03	-95.64	3.62
	-50.46	-12.40	-39.58	-25.51	-69.89	0.72
	-26.56	-8.58	-20.83	-14.46	-36.78	-2.71
	-3.76	2.66	-0.86	2.08	-6.66	3.68
	2.06	37.18	15.26	29.16	-11.14	51.50
	8.89	77.01	33.93	60.41	-16.14	106.68
	16.73	122.16	55.13	95.82	-21.67	169.21
	25.57	172.62	78.86	135.39	-27.72	239.10
	39.70	170.61	85.20	133.90	-5.80	236.31
	29.46	120.74	60.98	94.76	-2.05	167.23
	20.23	76.12	39.27	59.74	1.19	105.43
	12.00	36.75	20.07	28.84	3.92	50.90
	2.01	4.89	2.01	3.39	2.01	7.03
	-26.25	-1.46	-20.60	-10.78	-36.36	7.86
	-49.87	-6.68	-39.14	-22.44	-69.07	9.08

	-68.24	-10.90	-53.56	-31.59	-94.52	9.78
	-81.37	-14.12	-63.86	-38.23	-112.70	9.98
	-89.24	-16.34	-70.04	-42.35	-123.61	9.68
	-91.87	-17.55	-72.10	-43.96	-127.24	8.86
	-91.87	-17.55	-72.10	-43.96	-127.24	8.86
	-89.24	-17.76	-70.04	-43.06	-123.61	7.54
	-81.37	-16.97	-63.86	-39.65	-112.70	5.72
	-68.24	-15.17	-53.56	-33.73	-94.52	3.39
	-49.87	-12.37	-39.14	-25.29	-69.07	0.55
	-26.25	-8.57	-20.60	-14.34	-36.36	-2.80
	-3.76	2.62	-0.88	2.06	-6.65	3.64
	2.04	36.75	15.10	28.84	-11.01	50.90
	8.85	76.12	33.58	59.74	-15.88	105.43
	16.67	120.74	54.58	94.76	-21.25	167.23
	25.48	170.61	78.09	133.90	-27.13	236.31
	39.62	168.66	84.45	132.44	-5.22	233.59
	29.40	119.36	60.45	93.73	-1.64	165.31
	20.19	75.25	38.94	59.09	1.44	104.22
	11.98	36.33	19.91	28.53	4.04	50.31
	1.99	4.89	1.99	3.38	1.99	7.03
	-25.95	-1.45	-20.38	-10.67	-35.94	7.78
	-49.30	-6.66	-38.71	-22.23	-68.28	8.91
	-67.46	-10.87	-52.98	-31.29	-93.44	9.55
	-80.44	-14.08	-63.16	-37.87	-111.41	9.71
	-88.22	-16.29	-69.28	-41.96	-122.19	9.38
	-90.82	-17.50	-71.31	-43.56	-125.78	8.55
	-90.82	-17.50	-71.31	-43.56	-125.78	8.55
	-88.22	-17.71	-69.28	-42.67	-122.19	7.24
	-80.44	-16.92	-63.16	-39.29	-111.41	5.44
	-67.46	-15.14	-52.98	-33.43	-93.44	3.16
	-49.30	-12.35	-38.71	-25.07	-68.28	0.38
	-25.95	-8.56	-20.38	-14.22	-35.94	-2.89
	-3.77	2.59	-0.89	2.04	-6.64	3.59
	2.02	36.33	14.94	28.53	-10.89	50.31
	8.81	75.25	33.25	59.09	-15.62	104.22
	16.61	119.36	54.05	93.73	-20.84	165.31
	25.40	168.66	77.34	132.44	-26.55	233.59
	39.53	166.76	83.72	131.02	-4.66	230.95
	29.34	118.01	59.93	92.72	-1.25	163.44
	20.15	74.40	38.61	58.46	1.69	103.04
	11.96	35.92	19.76	28.22	4.16	49.74
	1.97	4.88	1.97	3.37	1.97	7.03
	-25.65	-1.43	-20.16	-10.56	-35.53	7.69
	-48.74	-6.63	-38.30	-22.01	-67.51	8.75
	-66.70	-10.84	-52.41	-31.00	-92.38	9.33

	-79.53	-14.04	-62.49	-37.52	-110.14	9.44
	-87.23	-16.25	-68.53	-41.58	-120.80	9.08
	-89.79	-17.46	-70.55	-43.17	-124.36	8.25
	-89.79	-17.46	-70.55	-43.17	-124.36	8.25
	-87.23	-17.67	-68.53	-42.29	-120.80	6.95
	-79.53	-16.88	-62.49	-38.95	-110.14	5.18
	-66.70	-15.10	-52.41	-33.13	-92.38	2.93
	-48.74	-12.32	-38.30	-24.86	-67.51	0.21
	-25.65	-8.54	-20.16	-14.11	-35.53	-2.97
	-3.77	2.57	-0.90	2.02	-6.63	3.55
	2.01	35.92	14.78	28.22	-10.77	49.74
	8.78	74.40	32.92	58.46	-15.37	103.04
	16.55	118.01	53.53	92.72	-20.44	163.44
	25.31	166.76	76.61	131.02	-25.99	230.95
3.80	39.45	164.91	83.01	129.64	-4.11	228.37
	29.28	116.70	59.43	91.75	-0.86	161.62
	20.12	73.57	38.29	57.84	1.94	101.89
	11.94	35.52	19.60	27.92	4.28	49.19
	1.95	4.88	1.95	3.36	1.95	7.03
	-25.37	-1.42	-19.95	-10.45	-35.13	7.61
	-48.20	-6.61	-37.90	-21.80	-66.76	8.59
	-65.96	-10.80	-51.86	-30.72	-91.35	9.11
	-78.65	-14.00	-61.83	-37.18	-108.92	9.18
	-86.26	-16.20	-67.81	-41.21	-119.46	8.80
	-88.80	-17.41	-69.81	-42.79	-122.97	7.96
	-88.80	-17.41	-69.81	-42.79	-122.97	7.96
	-86.26	-17.63	-67.81	-41.92	-119.46	6.66
	-78.65	-16.85	-61.83	-38.61	-108.92	4.92
	-65.96	-15.07	-51.86	-32.85	-91.35	2.71
	-48.20	-12.30	-37.90	-24.65	-66.76	0.05
	-25.37	-8.53	-19.95	-14.00	-35.13	-3.06
	-3.77	2.54	-0.91	1.99	-6.63	3.51
	1.99	35.52	14.63	27.92	-10.65	49.19
	8.74	73.57	32.61	57.84	-15.13	101.89
	16.49	116.70	53.03	91.75	-20.06	161.62
	25.23	164.91	75.90	129.64	-25.44	228.37
3.85	39.37	163.11	82.32	128.30	-3.58	225.87
	29.23	115.43	58.94	90.80	-0.48	159.84
	20.08	72.77	37.99	57.24	2.18	100.77
	11.93	35.13	19.45	27.63	4.40	48.65
	1.93	4.88	1.93	3.34	1.93	7.03
	-25.09	-1.41	-19.74	-10.34	-34.75	7.52
	-47.68	-6.59	-37.50	-21.60	-66.02	8.43
	-65.24	-10.77	-51.32	-30.44	-90.35	8.90
	-77.79	-13.96	-61.19	-36.85	-107.72	8.93

	-85.32	-16.16	-67.11	-40.85	-118.15	8.52
	-87.83	-17.37	-69.08	-42.41	-121.62	7.67
	-87.83	-17.37	-69.08	-42.41	-121.62	7.67
	-85.32	-17.59	-67.11	-41.56	-118.15	6.39
	-77.79	-16.81	-61.19	-38.28	-107.72	4.66
	-65.24	-15.04	-51.32	-32.57	-90.35	2.50
	-47.68	-12.27	-37.50	-24.45	-66.02	-0.10
	-25.09	-8.52	-19.74	-13.90	-34.75	-3.14
	-3.77	2.51	-0.92	1.97	-6.62	3.47
	1.97	35.13	14.48	27.63	-10.53	48.65
	8.70	72.77	32.30	57.24	-14.89	100.77
	16.43	115.43	52.54	90.80	-19.68	159.84
	25.15	163.11	75.21	128.30	-24.91	225.87
	40.67	162.73	83.03	128.37	-1.68	225.29
	30.15	115.17	59.44	90.85	0.86	159.44
	20.66	72.60	38.30	57.27	3.02	100.52
	12.21	35.05	19.61	27.65	4.81	48.52
	1.93	4.90	1.93	3.36	1.93	7.06
	-25.04	-1.61	-19.75	-10.45	-34.66	7.23
	-47.57	-6.97	-37.52	-21.81	-65.85	7.87
	-65.09	-11.29	-51.35	-30.72	-90.12	8.14
	-77.61	-14.59	-61.22	-37.19	-107.45	8.02
	-85.12	-16.85	-67.15	-41.22	-117.85	7.52
	-87.63	-18.07	-69.12	-42.79	-121.31	6.65
	-87.63	-18.07	-69.12	-42.79	-121.31	6.65
	-85.12	-18.27	-67.15	-41.93	-117.85	5.39
	-77.61	-17.43	-61.22	-38.61	-107.45	3.75
	-65.09	-15.56	-51.35	-32.86	-90.12	1.74
	-47.57	-12.66	-37.52	-24.65	-65.85	-0.66
	-25.04	-8.72	-19.75	-14.00	-34.66	-3.43
	-3.75	2.50	-0.91	1.97	-6.59	3.47
	2.25	35.05	14.63	27.65	-10.12	48.52
	9.29	72.60	32.61	57.27	-14.04	100.52
	17.35	115.17	53.04	90.85	-18.34	159.44
	26.46	162.73	75.92	128.37	-23.01	225.29
	40.60	161.02	82.37	127.10	-1.18	222.91
	30.10	113.95	58.98	89.95	1.22	157.75
	20.63	71.84	38.01	56.70	3.25	99.45
	12.19	34.68	19.46	27.37	4.91	48.01
	1.91	4.89	1.91	3.35	1.91	7.06
	-24.77	-1.60	-19.55	-10.35	-34.29	7.15
	-47.07	-6.94	-37.15	-21.62	-65.16	7.73
	-64.41	-11.26	-50.84	-30.46	-89.16	7.94
	-76.79	-14.55	-60.62	-36.88	-106.31	7.78
	-84.23	-16.81	-66.48	-40.87	-116.60	7.26

	-86.70	-18.03	-68.44	-42.44	-120.03	6.38
	-86.70	-18.03	-68.44	-42.44	-120.03	6.38
	-84.23	-18.23	-66.48	-41.58	-116.60	5.13
	-76.79	-17.39	-60.62	-38.30	-106.31	3.51
	-64.41	-15.53	-50.84	-32.59	-89.16	1.54
	-47.07	-12.63	-37.15	-24.46	-65.16	-0.80
	-24.77	-8.71	-19.55	-13.90	-34.29	-3.51
	-3.75	2.48	-0.92	1.96	-6.58	3.43
	2.24	34.68	14.49	27.37	-10.02	48.01
	9.25	71.84	32.32	56.70	-13.81	99.45
	17.30	113.95	52.58	89.95	-17.98	157.75
	26.38	161.02	75.26	127.10	-22.51	222.91
	40.52	159.35	81.73	125.85	-0.68	220.59
	30.05	112.77	58.52	89.06	1.57	156.11
	20.60	71.10	37.72	56.15	3.47	98.42
	12.17	34.32	19.33	27.11	5.02	47.51
	1.89	4.89	1.89	3.34	1.89	7.05
	-24.52	-1.59	-19.36	-10.25	-33.94	7.08
	-46.58	-6.92	-36.79	-21.43	-64.48	7.58
	-63.74	-11.23	-50.34	-30.20	-88.24	7.74
	-76.00	-14.51	-60.02	-36.57	-105.20	7.55
	-83.35	-16.77	-65.83	-40.54	-115.38	7.00
	-85.81	-17.99	-67.77	-42.09	-118.78	6.11
	-85.81	-17.99	-67.77	-42.09	-118.78	6.11
	-83.35	-18.19	-65.83	-41.25	-115.38	4.87
	-76.00	-17.36	-60.02	-37.99	-105.20	3.28
	-63.74	-15.50	-50.34	-32.34	-88.24	1.34
	-46.58	-12.61	-36.79	-24.27	-64.48	-0.95
	-24.52	-8.70	-19.36	-13.80	-33.94	-3.59
	-3.75	2.45	-0.93	1.94	-6.57	3.39
	2.22	34.32	14.35	27.11	-9.91	47.51
	9.22	71.10	32.03	56.15	-13.60	98.42
	17.25	112.77	52.13	89.06	-17.63	156.11
	26.30	159.35	74.62	125.85	-22.01	220.59
	40.45	157.73	81.11	124.64	-0.20	218.32
	29.99	111.62	58.08	88.21	1.91	154.51
	20.56	70.37	37.44	55.61	3.68	97.41
	12.16	33.97	19.19	26.85	5.12	47.02
	1.87	4.89	1.87	3.33	1.87	7.05
	-24.27	-1.57	-19.18	-10.15	-33.59	7.00
	-46.10	-6.90	-36.43	-21.25	-63.82	7.44
	-63.09	-11.20	-49.86	-29.95	-87.33	7.55
	-75.22	-14.48	-59.44	-36.27	-104.12	7.32
	-82.50	-16.73	-65.20	-40.21	-114.20	6.75
	-84.93	-17.95	-67.11	-41.76	-117.56	5.85

	-84.93	-17.95	-67.11	-41.76	-117.56	5.85
	-82.50	-18.15	-65.20	-40.92	-114.20	4.62
	-75.22	-17.32	-59.44	-37.70	-104.12	3.05
	-63.09	-15.47	-49.86	-32.09	-87.33	1.15
	-46.10	-12.59	-36.43	-24.09	-63.82	-1.09
	-24.27	-8.68	-19.18	-13.71	-33.59	-3.66
	-3.75	2.43	-0.94	1.92	-6.57	3.36
	2.20	33.97	14.21	26.85	-9.81	47.02
	9.19	70.37	31.76	55.61	-13.38	97.41
	17.20	111.62	51.68	88.21	-17.29	154.51
	26.23	157.73	74.00	124.64	-21.53	218.32
4.10	41.76	157.51	81.87	124.83	1.64	217.97
	30.92	111.47	58.62	88.34	3.21	154.26
	21.15	70.28	37.79	55.69	4.51	97.25
	12.44	33.93	19.36	26.89	5.52	46.95
	1.88	4.91	1.88	3.34	1.88	7.08
	-24.23	-1.78	-19.20	-10.27	-33.53	6.72
	-46.04	-7.28	-36.49	-21.47	-63.71	6.90
	-63.01	-11.73	-49.93	-30.26	-87.19	6.81
	-75.12	-15.10	-59.53	-36.64	-103.96	6.44
	-82.39	-17.41	-65.30	-40.61	-114.02	5.79
	-84.82	-18.66	-67.22	-42.17	-117.37	4.86
	-84.82	-18.66	-67.22	-42.17	-117.37	4.86
	-82.39	-18.83	-65.30	-41.32	-114.02	3.65
	-75.12	-17.95	-59.53	-38.06	-103.96	2.17
	-63.01	-15.99	-49.93	-32.39	-87.19	0.41
	-46.04	-12.97	-36.49	-24.31	-63.71	-1.63
	-24.23	-8.89	-19.20	-13.83	-33.53	-3.94
	-3.73	2.42	-0.93	1.92	-6.54	3.35
	2.49	33.93	14.38	26.89	-9.41	46.95
	9.77	70.28	32.10	55.69	-12.56	97.25
	18.12	111.47	52.22	88.34	-15.99	154.26
	27.54	157.51	74.76	124.83	-19.69	217.97
4.15	41.69	155.96	81.28	123.67	2.10	215.81
	30.87	110.37	58.20	87.52	3.53	152.73
	21.11	69.58	37.52	55.18	4.71	96.29
	12.42	33.59	19.23	26.64	5.62	46.48
	1.86	4.91	1.86	3.33	1.86	7.08
	-23.99	-1.76	-19.03	-10.18	-33.20	6.65
	-45.59	-7.26	-36.15	-21.30	-63.08	6.77
	-62.39	-11.70	-49.47	-30.02	-86.33	6.63
	-74.38	-15.07	-58.98	-36.36	-102.93	6.22
	-81.58	-17.37	-64.69	-40.30	-112.89	5.55
	-83.98	-18.62	-66.59	-41.85	-116.21	4.61
	-83.98	-18.62	-66.59	-41.85	-116.21	4.61

	-81.58	-18.80	-64.69	-41.01	-112.89	3.42
	-74.38	-17.91	-58.98	-37.78	-102.93	1.95
	-62.39	-15.96	-49.47	-32.15	-86.33	0.23
	-45.59	-12.95	-36.15	-24.14	-63.08	-1.76
	-23.99	-8.87	-19.03	-13.73	-33.20	-4.01
	-3.73	2.40	-0.94	1.90	-6.53	3.32
	2.47	33.59	14.25	26.64	-9.31	46.48
	9.74	69.58	31.83	55.18	-12.35	96.29
	18.07	110.37	51.80	87.52	-15.66	152.73
	27.47	155.96	74.17	123.67	-19.23	215.81
4.20	41.62	154.45	80.69	122.54	2.54	213.71
	30.82	109.30	57.79	86.72	3.85	151.24
	21.08	68.91	37.26	54.67	4.91	95.35
	12.41	33.27	19.10	26.39	5.72	46.03
	1.84	4.90	1.84	3.32	1.84	7.08
	-23.76	-1.75	-18.85	-10.09	-32.88	6.58
	-45.15	-7.24	-35.82	-21.13	-62.47	6.64
	-61.78	-11.67	-49.02	-29.79	-85.48	6.45
	-73.66	-15.04	-58.44	-36.08	-101.92	6.01
	-80.79	-17.34	-64.10	-39.99	-111.79	5.32
	-83.17	-18.58	-65.99	-41.54	-115.07	4.37
	-83.17	-18.58	-65.99	-41.54	-115.07	4.37
	-80.79	-18.76	-64.10	-40.70	-111.79	3.18
	-73.66	-17.88	-58.44	-37.50	-101.92	1.74
	-61.78	-15.94	-49.02	-31.92	-85.48	0.05
	-45.15	-12.93	-35.82	-23.97	-62.47	-1.89
	-23.76	-8.86	-18.85	-13.64	-32.88	-4.08
	-3.73	2.38	-0.95	1.89	-6.52	3.29
	2.46	33.27	14.13	26.39	-9.22	46.03
	9.71	68.91	31.57	54.67	-12.16	95.35
18.02	109.30	51.39	86.72	-15.35	151.24	
27.40	154.45	73.58	122.54	-18.79	213.71	
4.25	41.66	153.09	80.24	121.56	3.09	211.81
	30.85	108.34	57.47	86.02	4.24	149.89
	21.10	68.30	37.06	54.23	5.15	94.50
	12.42	32.97	19.01	26.18	5.83	45.62
	1.83	4.90	1.83	3.31	1.83	7.08
	-23.55	-1.76	-18.70	-10.02	-32.59	6.50
	-44.75	-7.26	-35.53	-20.99	-61.91	6.48
	-61.23	-11.69	-48.62	-29.61	-84.72	6.23
	-73.01	-15.06	-57.97	-35.86	-101.02	5.75
	-80.08	-17.36	-63.58	-39.76	-110.79	5.03
	-82.43	-18.61	-65.45	-41.29	-114.05	4.08
	-82.43	-18.61	-65.45	-41.29	-114.05	4.08
-80.08	-18.79	-63.58	-40.47	-110.79	2.90	

	-73.01	-17.90	-57.97	-37.28	-101.02	1.48
	-61.23	-15.95	-48.62	-31.74	-84.72	-0.17
	-44.75	-12.94	-35.53	-23.84	-61.91	-2.05
	-23.55	-8.87	-18.70	-13.58	-32.59	-4.17
	-3.73	2.36	-0.95	1.87	-6.52	3.26
	2.47	32.97	14.03	26.18	-9.10	45.62
	9.73	68.30	31.37	54.23	-11.91	94.50
	18.06	108.34	51.07	86.02	-14.96	149.89
	27.45	153.09	73.13	121.56	-18.24	211.81
4.30	41.60	151.64	79.68	120.48	3.51	209.80
	30.81	107.32	57.08	85.26	4.54	148.47
	21.08	67.66	36.81	53.75	5.34	93.60
	12.41	32.66	18.89	25.95	5.93	45.19
	1.81	4.90	1.81	3.30	1.81	7.08
	-23.33	-1.75	-18.54	-9.93	-32.28	6.43
	-44.33	-7.24	-35.22	-20.83	-61.33	6.36
	-60.66	-11.66	-48.19	-29.39	-83.92	6.06
	-72.32	-15.03	-57.46	-35.60	-100.06	5.54
	-79.32	-17.33	-63.02	-39.47	-109.74	4.81
	-81.65	-18.57	-64.87	-40.99	-112.97	3.85
	-81.65	-18.57	-64.87	-40.99	-112.97	3.85
	-79.32	-18.75	-63.02	-40.18	-109.74	2.67
	-72.32	-17.87	-57.46	-37.02	-100.06	1.28
	-60.66	-15.93	-48.19	-31.52	-83.92	-0.34
	-44.33	-12.93	-35.22	-23.68	-61.33	-2.18
	-23.33	-8.86	-18.54	-13.49	-32.28	-4.23
	-3.74	2.33	-0.96	1.85	-6.51	3.23
	2.45	32.66	13.91	25.95	-9.01	45.19
	9.70	67.66	31.12	53.75	-11.72	93.60
18.01	107.32	50.68	85.26	-14.66	148.47	
27.38	151.64	72.57	120.48	-17.81	209.80	
4.35	41.54	150.23	79.14	119.43	3.93	207.84
	30.76	106.32	56.69	84.52	4.83	147.09
	21.05	67.03	36.57	53.28	5.53	92.73
	12.39	32.36	18.77	25.72	6.01	44.77
	1.80	4.90	1.80	3.30	1.80	7.08
	-23.11	-1.74	-18.37	-9.85	-31.98	6.37
	-43.91	-7.22	-34.91	-20.67	-60.75	6.23
	-60.09	-11.64	-47.77	-29.17	-83.14	5.89
	-71.65	-15.00	-56.96	-35.34	-99.12	5.34
	-78.58	-17.30	-62.47	-39.18	-108.72	4.59
	-80.89	-18.54	-64.31	-40.70	-111.91	3.63
	-80.89	-18.54	-64.31	-40.70	-111.91	3.63
	-78.58	-18.72	-62.47	-39.89	-108.72	2.46
-71.65	-17.84	-56.96	-36.76	-99.12	1.08	

	-60.09	-15.90	-47.77	-31.30	-83.14	-0.51
	-43.91	-12.91	-34.91	-23.52	-60.75	-2.30
	-23.11	-8.85	-18.37	-13.41	-31.98	-4.30
	-3.74	2.31	-0.97	1.84	-6.50	3.20
	2.44	32.36	13.79	25.72	-8.92	44.77
	9.67	67.03	30.88	53.28	-11.54	92.73
	17.96	106.32	50.29	84.52	-14.36	147.09
	27.32	150.23	72.03	119.43	-17.40	207.84
4.40	41.48	148.86	78.61	118.40	4.34	205.92
	30.72	105.34	56.32	83.79	5.12	145.73
	21.02	66.41	36.33	52.82	5.71	91.87
	12.38	32.06	18.65	25.50	6.10	44.35
	1.78	4.90	1.78	3.29	1.78	7.08
	-22.90	-1.73	-18.22	-9.77	-31.68	6.31
	-43.51	-7.20	-34.61	-20.52	-60.19	6.12
	-59.54	-11.61	-47.36	-28.96	-82.37	5.73
	-70.99	-14.97	-56.47	-35.09	-98.21	5.15
	-77.86	-17.26	-61.93	-38.91	-107.71	4.38
	-80.15	-18.50	-63.75	-40.42	-110.88	3.41
	-80.15	-18.50	-63.75	-40.42	-110.88	3.41
	-77.86	-18.69	-61.93	-39.62	-107.71	2.24
	-70.99	-17.81	-56.47	-36.51	-98.21	0.89
	-59.54	-15.88	-47.36	-31.09	-82.37	-0.67
	-43.51	-12.89	-34.61	-23.36	-60.19	-2.42
	-22.90	-8.84	-18.22	-13.32	-31.68	-4.36
	-3.74	2.29	-0.98	1.82	-6.50	3.17
	2.42	32.06	13.68	25.50	-8.83	44.35
	9.64	66.41	30.64	52.82	-11.36	91.87
17.92	105.34	49.92	83.79	-14.08	145.73	
27.26	148.86	71.50	118.40	-16.99	205.92	
4.45	41.42	147.51	78.10	117.40	4.73	204.05
	30.68	104.39	55.95	83.08	5.40	144.40
	20.99	65.81	36.10	52.38	5.89	91.04
	12.37	31.77	18.54	25.29	6.19	43.95
	1.77	4.89	1.77	3.28	1.77	7.08
	-22.69	-1.72	-18.06	-9.69	-31.39	6.24
	-43.12	-7.18	-34.32	-20.37	-59.64	6.00
	-59.00	-11.59	-46.96	-28.75	-81.62	5.57
	-70.35	-14.94	-55.99	-34.84	-97.31	4.96
	-77.16	-17.23	-61.41	-38.64	-106.73	4.17
	-79.43	-18.47	-63.21	-40.14	-109.87	3.19
	-79.43	-18.47	-63.21	-40.14	-109.87	3.19
	-77.16	-18.66	-61.41	-39.35	-106.73	2.04
-70.35	-17.78	-55.99	-36.26	-97.31	0.70	
-59.00	-15.86	-46.96	-30.88	-81.62	-0.83	

	-43.12	-12.87	-34.32	-23.21	-59.64	-2.53
	-22.69	-8.83	-18.06	-13.25	-31.39	-4.42
	-3.74	2.27	-0.99	1.81	-6.49	3.14
	2.41	31.77	13.57	25.29	-8.74	43.95
	9.62	65.81	30.41	52.38	-11.18	91.04
	17.88	104.39	49.55	83.08	-13.80	144.40
	27.20	147.51	70.99	117.40	-16.60	204.05
4.50	41.36	146.19	77.59	116.41	5.12	202.22
	30.64	103.46	55.59	82.39	5.68	143.11
	20.97	65.22	35.88	51.94	6.06	90.22
	12.35	31.49	18.43	25.07	6.27	43.55
	1.75	4.89	1.75	3.27	1.75	7.08
	-22.49	-1.71	-17.91	-9.61	-31.11	6.18
	-42.73	-7.17	-34.03	-20.22	-59.11	5.89
	-58.48	-11.57	-46.57	-28.55	-80.89	5.42
	-69.72	-14.91	-55.52	-34.60	-96.44	4.78
	-76.47	-17.20	-60.89	-38.37	-105.77	3.97
	-78.72	-18.44	-62.68	-39.87	-108.89	2.98
	-78.72	-18.44	-62.68	-39.87	-108.89	2.98
	-76.47	-18.62	-60.89	-39.08	-105.77	1.83
	-69.72	-17.76	-55.52	-36.02	-96.44	0.51
	-58.48	-15.83	-46.57	-30.68	-80.89	-0.98
	-42.73	-12.85	-34.03	-23.06	-59.11	-2.65
	-22.49	-8.82	-17.91	-13.17	-31.11	-4.48
	-3.74	2.25	-0.99	1.79	-6.48	3.11
	2.40	31.49	13.46	25.07	-8.66	43.55
	9.59	65.22	30.19	51.94	-11.00	90.22
17.84	103.46	49.20	82.39	-13.52	143.11	
27.14	146.19	70.48	116.41	-16.21	202.22	

En la Tabla 30 se muestran las combinaciones de esfuerzos para el cordón superior en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 30. Combinación de esfuerzos del cordón superior - 22 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)
0.50	-0.36	0.00	-0.18	0.00	-0.53	0.00
	45.85	371.71	161.72	285.12	-70.02	515.92
	87.65	708.02	308.20	543.09	-132.90	982.71
	125.06	1008.93	439.26	773.90	-189.15	1400.37
	158.06	1274.43	554.90	977.56	-238.79	1768.89
	186.66	1504.54	655.13	1154.07	-281.80	2088.27
	210.86	1699.24	739.93	1303.42	-318.20	2358.51

	230.66	1858.55	809.31	1425.61	-347.99	2579.62
	246.07	1982.45	863.28	1520.65	-371.15	2751.60
	257.07	2070.95	901.83	1588.54	-387.70	2874.44
	263.67	2124.05	924.96	1629.27	-397.62	2948.14
	264.38	2124.05	925.31	1629.27	-396.56	2948.14
	257.78	2070.95	902.18	1588.54	-386.63	2874.44
	246.78	1982.45	863.64	1520.65	-370.08	2751.60
	231.38	1858.55	809.67	1425.61	-346.92	2579.62
	211.57	1699.24	740.29	1303.42	-317.14	2358.51
	187.37	1504.54	655.48	1154.07	-280.74	2088.27
	158.77	1274.43	555.26	977.56	-237.72	1768.89
	125.77	1008.93	439.62	773.90	-188.08	1400.37
	88.36	708.02	308.56	543.09	-131.83	982.71
	46.56	371.71	162.08	285.12	-68.96	515.92
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
	36.22	332.49	141.58	253.78	-69.13	461.70
	69.32	633.32	269.83	483.39	-131.20	879.43
	98.93	902.48	384.59	688.83	-186.73	1253.19
	125.06	1139.98	485.84	870.10	-235.73	1582.97
	147.70	1345.81	573.60	1027.20	-278.19	1868.79
	166.86	1519.97	647.85	1160.13	-314.12	2110.63
	182.54	1662.47	708.60	1268.89	-343.52	2308.50
	194.73	1773.30	755.86	1353.48	-366.39	2462.40
	203.44	1852.46	789.61	1413.91	-382.72	2572.33
	208.67	1899.96	809.86	1450.16	-392.52	2638.29
	209.38	1899.96	810.21	1450.16	-391.45	2638.29
	204.15	1852.46	789.96	1413.91	-381.65	2572.33
	195.44	1773.30	756.21	1353.48	-365.32	2462.40
	183.25	1662.47	708.96	1268.89	-342.45	2308.50
	167.58	1519.97	648.21	1160.13	-313.06	2110.63
	148.41	1345.81	573.95	1027.20	-277.12	1868.79
	125.77	1139.98	486.20	870.10	-234.66	1582.97
	99.64	902.48	384.94	688.83	-185.66	1253.19
	70.03	633.32	270.19	483.39	-130.13	879.43
	36.93	332.49	141.93	253.78	-68.06	461.70
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
	30.15	301.76	126.74	229.60	-66.44	419.14
	57.75	574.78	241.57	437.34	-126.07	798.36
	82.44	819.06	344.31	623.20	-179.43	1137.66
	104.23	1034.60	434.96	787.21	-226.51	1437.04
	123.11	1221.40	513.53	929.34	-267.31	1696.51
	139.09	1379.46	580.00	1049.61	-301.83	1916.05
	152.16	1508.79	634.40	1148.01	-330.08	2095.68

	162.33	1609.37	676.70	1224.54	-352.05	2235.40
	169.59	1681.22	706.92	1279.21	-367.74	2335.19
	173.95	1724.33	725.05	1312.01	-377.16	2395.07
	174.66	1724.33	725.41	1312.01	-376.09	2395.07
	170.30	1681.22	707.28	1279.21	-366.68	2335.19
	163.04	1609.37	677.06	1224.54	-350.98	2235.40
	152.87	1508.79	634.75	1148.01	-329.01	2095.68
	139.80	1379.46	580.36	1049.61	-300.77	1916.05
	123.82	1221.40	513.88	929.34	-266.24	1696.51
	104.94	1034.60	435.31	787.21	-225.44	1437.04
	83.15	819.06	344.66	623.20	-178.36	1137.66
	58.46	574.78	241.92	437.34	-125.01	798.36
	30.86	301.76	127.09	229.60	-65.38	419.14
	0.00	0.36	0.00	0.18	0.00	0.53
0.65	-0.36	0.00	-0.18	0.00	-0.53	0.00
	26.46	277.21	115.63	210.60	-62.71	385.09
	50.72	528.01	220.42	401.14	-118.97	733.50
	72.43	752.42	314.17	571.63	-169.30	1045.24
	91.59	950.42	396.89	722.06	-213.72	1320.30
	108.19	1122.02	468.59	852.43	-252.21	1558.69
	122.24	1267.23	529.25	962.74	-284.78	1760.40
	133.73	1386.03	578.89	1053.00	-311.43	1925.44
	142.67	1478.43	617.49	1123.20	-332.15	2053.80
	149.05	1544.43	645.06	1173.34	-346.96	2145.49
	152.88	1584.03	661.61	1203.43	-355.84	2200.50
	153.59	1584.03	661.96	1203.43	-354.78	2200.50
	149.76	1544.43	645.42	1173.34	-345.89	2145.49
	143.38	1478.43	617.85	1123.20	-331.09	2053.80
	134.44	1386.03	579.24	1053.00	-310.36	1925.44
	122.95	1267.23	529.61	962.74	-283.71	1760.40
	108.90	1122.02	468.94	852.43	-251.14	1558.69
	92.30	950.42	397.25	722.06	-212.65	1320.30
	73.14	752.42	314.53	571.63	-168.24	1045.24
	51.44	528.01	220.77	401.14	-117.90	733.50
	27.17	277.21	115.99	210.60	-61.65	385.09
	0.00	0.36	0.00	0.18	0.00	0.53
0.70	-0.36	0.00	-0.18	0.00	-0.53	0.00
	23.31	256.17	106.13	194.32	-59.51	355.91
	44.72	487.94	202.30	370.13	-112.87	677.93
	63.88	695.31	288.36	527.44	-160.61	966.04
	80.78	878.29	364.29	666.24	-202.73	1220.27
	95.43	1036.87	430.10	786.53	-239.24	1440.59
	107.82	1171.05	485.78	888.32	-270.13	1627.02
	117.97	1280.84	531.34	971.60	-295.41	1779.55
	125.85	1366.23	566.77	1036.38	-315.06	1898.19

	131.49	1427.22	592.08	1082.64	-329.11	1982.93
	134.87	1463.82	607.27	1110.40	-337.53	2033.78
	135.58	1463.82	607.63	1110.40	-336.47	2033.78
	132.20	1427.22	592.44	1082.64	-328.04	1982.93
	126.57	1366.23	567.13	1036.38	-314.00	1898.19
	118.68	1280.84	531.69	971.60	-294.34	1779.55
	108.54	1171.05	486.14	888.32	-269.07	1627.02
	96.14	1036.87	430.45	786.53	-238.17	1440.59
	81.49	878.29	364.65	666.24	-201.67	1220.27
	64.59	695.31	288.72	527.44	-159.54	966.04
	45.43	487.94	202.66	370.13	-111.80	677.93
	24.02	256.17	106.48	194.32	-58.44	355.91
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
0.75	22.09	239.45	99.40	181.72	-55.22	332.67
	42.40	456.09	189.49	346.14	-104.70	633.65
	60.56	649.93	270.09	493.25	-148.97	902.95
	76.60	820.96	341.22	623.05	-188.03	1140.57
	90.49	969.19	402.86	735.55	-221.88	1346.50
	102.25	1094.62	455.02	830.73	-250.52	1520.76
	111.86	1197.24	497.69	908.61	-273.96	1663.33
	119.35	1277.05	530.88	969.19	-292.19	1774.22
	124.69	1334.07	554.59	1012.46	-305.21	1853.42
	127.90	1368.27	568.82	1038.42	-313.02	1900.95
	128.61	1368.27	569.17	1038.42	-311.96	1900.95
	125.40	1334.07	554.95	1012.46	-304.14	1853.42
	120.06	1277.05	531.24	969.19	-291.12	1774.22
	112.58	1197.24	498.05	908.61	-272.90	1663.33
	102.96	1094.62	455.37	830.73	-249.46	1520.76
	91.20	969.19	403.21	735.55	-220.81	1346.50
	77.31	820.96	341.57	623.05	-186.96	1140.57
	61.27	649.93	270.45	493.25	-147.90	902.95
	43.11	456.09	189.84	346.14	-103.63	633.65
	22.80	239.45	99.75	181.72	-54.15	332.67
	0.00	0.36	0.00	0.18	0.00	0.53
0.80	-0.36	0.00	-0.18	0.00	-0.53	0.00
	19.61	223.41	92.10	169.29	-52.87	310.43
	37.68	425.54	175.59	322.46	-100.23	591.29
	53.85	606.40	250.29	459.51	-142.60	842.59
	68.11	765.98	316.21	580.44	-179.98	1064.32
	80.48	904.28	373.33	685.24	-212.38	1256.49
	90.94	1021.31	421.67	773.92	-239.80	1419.10
	99.49	1117.05	461.22	846.47	-262.23	1552.14
	106.15	1191.52	491.98	902.90	-279.68	1655.62
	110.91	1244.72	513.95	943.21	-292.14	1729.53

	113.76	1276.63	527.13	967.39	-299.61	1773.87
	114.47	1276.63	527.49	967.39	-298.55	1773.87
	111.62	1244.72	514.30	943.21	-291.07	1729.53
	106.86	1191.52	492.33	902.90	-278.61	1655.62
	100.21	1117.05	461.57	846.47	-261.16	1552.14
	91.65	1021.31	422.03	773.92	-238.73	1419.10
	81.19	904.28	373.69	685.24	-211.32	1256.49
	68.82	765.98	316.56	580.44	-178.92	1064.32
	54.56	606.40	250.65	459.51	-141.53	842.59
	38.39	425.54	175.95	322.46	-99.16	591.29
	20.33	223.41	92.46	169.29	-51.81	310.43
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
	18.65	210.48	86.89	159.55	-49.58	292.46
	35.85	400.92	165.66	303.91	-93.95	557.06
	51.24	571.31	236.14	433.06	-133.66	793.81
	64.82	721.66	298.33	547.03	-168.69	1002.71
	76.59	851.96	352.23	645.80	-199.05	1183.76
	86.55	962.21	397.84	729.37	-224.74	1336.95
	94.69	1052.42	435.15	797.75	-245.76	1462.29
	101.03	1122.58	464.17	850.93	-262.11	1559.77
	105.56	1172.69	484.90	888.92	-273.79	1629.41
	108.27	1202.76	497.34	911.72	-280.79	1671.18
	108.98	1202.76	497.70	911.72	-279.73	1671.18
	106.27	1172.69	485.26	888.92	-272.72	1629.41
	101.74	1122.58	464.53	850.93	-261.04	1559.77
	95.41	1052.42	435.51	797.75	-244.70	1462.29
	87.26	962.21	398.19	729.37	-223.68	1336.95
	77.30	851.96	352.59	645.80	-197.99	1183.76
	65.53	721.66	298.69	547.03	-167.62	1002.71
	51.95	571.31	236.50	433.06	-132.59	793.81
	36.56	400.92	166.02	303.91	-92.89	557.06
	19.37	210.48	87.24	159.55	-48.51	292.46
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
	16.76	197.95	81.21	149.85	-47.69	275.08
	32.24	377.05	154.85	285.42	-90.36	523.96
	46.10	537.30	220.74	406.73	-128.54	746.64
	58.33	678.69	278.87	513.76	-162.22	943.12
	68.92	801.23	329.26	606.53	-191.42	1113.41
	77.89	904.92	371.89	685.02	-216.12	1257.50
	85.22	989.76	406.77	749.24	-236.33	1375.39
	90.93	1055.74	433.90	799.19	-252.05	1467.08
	95.00	1102.87	453.28	834.87	-263.28	1532.57
	97.45	1131.15	464.91	856.27	-270.02	1571.87

	98.16	1131.15	465.26	856.27	-268.95	1571.87
	95.71	1102.87	453.64	834.87	-262.21	1532.57
	91.64	1055.74	434.26	799.19	-250.98	1467.08
	85.93	989.76	407.13	749.24	-235.26	1375.39
	78.60	904.92	372.25	685.02	-215.05	1257.50
	69.63	801.23	329.61	606.53	-190.35	1113.41
	59.04	678.69	279.23	513.76	-161.16	943.12
	46.81	537.30	221.09	406.73	-127.47	746.64
	32.96	377.05	155.21	285.42	-89.29	523.96
	17.47	197.95	81.57	149.85	-46.63	275.08
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
	16.16	187.83	77.23	142.26	-44.91	261.00
	31.10	357.78	147.26	270.97	-85.06	497.15
	44.47	509.83	209.92	386.13	-120.99	708.44
	56.26	644.00	265.21	487.75	-152.69	894.87
	66.49	760.27	313.13	575.82	-180.16	1056.44
	75.14	858.66	353.68	650.33	-203.41	1193.16
	82.21	939.16	386.85	711.30	-222.42	1305.02
	87.72	1001.77	412.65	758.72	-237.22	1392.02
	91.65	1046.49	431.08	792.59	-247.78	1454.16
	94.01	1073.33	442.14	812.92	-254.12	1491.45
	94.72	1073.33	442.50	812.92	-253.06	1491.45
	92.36	1046.49	431.44	792.59	-246.72	1454.16
	88.43	1001.77	413.01	758.72	-236.15	1392.02
	82.92	939.16	387.21	711.30	-221.36	1305.02
	75.85	858.66	354.03	650.33	-202.34	1193.16
	67.20	760.27	313.49	575.82	-179.09	1056.44
	56.97	644.00	265.57	487.75	-151.62	894.87
	45.18	509.83	210.28	386.13	-119.92	708.44
	31.81	357.78	147.62	270.97	-84.00	497.15
	16.87	187.83	77.58	142.26	-43.85	261.00
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
	15.43	178.54	73.46	135.25	-42.59	248.09
	29.72	340.08	140.08	257.61	-80.65	472.55
	42.50	484.61	199.69	367.10	-114.70	673.38
	53.77	612.14	252.28	463.70	-144.74	850.59
	63.55	722.66	297.87	547.43	-170.77	1004.17
	71.82	816.18	336.44	618.27	-192.81	1134.12
	78.58	892.70	368.00	676.23	-210.83	1240.44
	83.84	952.21	392.54	721.32	-224.85	1323.14
	87.60	994.72	410.07	753.52	-234.87	1382.20
	89.86	1020.23	420.59	772.84	-240.87	1417.65
	90.57	1020.23	420.95	772.84	-239.81	1417.65

	88.31	994.72	410.43	753.52	-233.80	1382.20
	84.56	952.21	392.90	721.32	-223.79	1323.14
	79.29	892.70	368.35	676.23	-209.77	1240.44
	72.53	816.18	336.79	618.27	-191.74	1134.12
	64.26	722.66	298.22	547.43	-169.71	1004.17
	54.48	612.14	252.64	463.70	-143.67	850.59
	43.21	484.61	200.04	367.10	-113.63	673.38
	30.43	340.08	140.43	257.61	-79.58	472.55
	16.14	178.54	73.81	135.25	-41.53	248.09
	0.00	0.36	0.00	0.18	0.00	0.53
1.05	-0.36	0.00	-0.18	0.00	-0.53	0.00
	14.96	170.32	70.23	129.08	-40.31	236.65
	28.81	324.41	133.93	245.87	-76.30	450.76
	41.21	462.29	190.92	350.37	-108.51	642.33
	52.15	583.94	241.21	442.57	-136.92	811.37
	61.63	689.37	284.80	522.48	-161.55	957.86
	69.65	778.59	321.68	590.10	-182.38	1081.82
	76.21	851.58	351.85	645.42	-199.43	1183.24
	81.31	908.35	375.32	688.45	-212.69	1262.13
	84.96	948.90	392.08	719.18	-222.16	1318.47
	87.15	973.23	402.14	737.62	-227.84	1352.28
	87.86	973.23	402.50	737.62	-226.78	1352.28
	85.67	948.90	392.44	719.18	-221.10	1318.47
	82.03	908.35	375.68	688.45	-211.62	1262.13
	76.92	851.58	352.21	645.42	-198.36	1183.24
	70.36	778.59	322.03	590.10	-181.32	1081.82
	62.34	689.37	285.15	522.48	-160.48	957.86
	52.86	583.94	241.57	442.57	-135.85	811.37
	41.92	462.29	191.28	350.37	-107.44	642.33
	29.52	324.41	134.28	245.87	-75.24	450.76
	15.67	170.32	70.58	129.08	-39.25	236.65
	0.00	0.36	0.00	0.18	0.00	0.53
1.10	-0.36	0.00	-0.18	0.00	-0.53	0.00
	13.67	161.99	66.44	122.63	-39.09	225.10
	26.37	308.54	126.71	233.58	-73.98	428.76
	37.72	439.68	180.64	332.85	-105.19	610.98
	47.74	555.38	228.23	420.44	-132.74	771.77
	56.43	655.66	269.46	496.35	-156.61	911.11
	63.78	740.51	304.36	560.59	-176.80	1029.02
	69.79	809.93	332.91	613.14	-193.33	1125.49
	74.47	863.93	355.12	654.02	-206.18	1200.52
	77.81	902.49	370.98	683.22	-215.36	1254.12
	79.81	925.63	380.49	700.73	-220.87	1286.28
	80.52	925.63	380.85	700.73	-219.81	1286.28
	78.52	902.49	371.33	683.22	-214.30	1254.12

	75.18	863.93	355.47	654.02	-205.12	1200.52
	70.50	809.93	333.27	613.14	-192.26	1125.49
	64.49	740.51	304.72	560.59	-175.74	1029.02
	57.14	655.66	269.82	496.35	-155.54	911.11
	48.46	555.38	228.58	420.44	-131.67	771.77
	38.43	439.68	181.00	332.85	-104.13	610.98
	27.08	308.54	127.07	233.58	-72.91	428.76
	14.38	161.99	66.80	122.63	-38.03	225.10
	0.00	0.36	0.00	0.18	0.00	0.53
1.15	-0.36	0.00	-0.18	0.00	-0.53	0.00
	13.32	155.20	63.80	117.56	-37.16	215.66
	25.70	295.62	121.69	223.92	-70.29	410.78
	36.77	421.26	173.48	319.08	-99.94	585.36
	46.54	532.12	219.18	403.05	-126.10	739.41
	55.01	628.20	258.79	475.82	-148.77	872.91
	62.17	709.49	292.30	537.40	-167.96	985.88
	68.03	776.01	319.72	587.78	-183.65	1078.30
	72.59	827.74	341.05	626.96	-195.86	1150.19
	75.85	864.70	356.28	654.95	-204.58	1201.54
	77.80	886.87	365.42	671.75	-209.81	1232.35
	78.51	886.87	365.78	671.75	-208.75	1232.35
	76.56	864.70	356.64	654.95	-203.52	1201.54
	73.30	827.74	341.40	626.96	-194.80	1150.19
	68.74	776.01	320.08	587.78	-182.59	1078.30
	62.88	709.49	292.66	537.40	-166.89	985.88
	55.72	628.20	259.14	475.82	-147.71	872.91
	47.25	532.12	219.54	403.05	-125.04	739.41
	37.48	421.26	173.84	319.08	-98.88	585.36
	26.41	295.62	122.04	223.92	-69.23	410.78
	14.03	155.20	64.16	117.56	-36.09	215.66
	0.00	0.36	0.00	0.18	0.00	0.53
1.20	-0.36	0.00	-0.18	0.00	-0.53	0.00
	13.00	148.99	61.39	112.91	-35.38	207.01
	25.09	283.78	117.09	215.06	-66.91	394.31
	35.90	404.39	166.93	306.46	-95.12	561.89
	45.44	510.81	210.90	387.11	-120.01	709.76
	53.71	603.04	249.01	457.01	-141.58	837.91
	60.71	681.08	281.26	516.15	-159.84	946.34
	66.44	744.93	307.64	564.54	-174.77	1035.06
	70.89	794.59	328.16	602.17	-186.39	1104.07
	74.07	830.06	342.82	629.06	-194.69	1153.36
	75.98	851.35	351.62	645.19	-199.66	1182.93
	76.69	851.35	351.97	645.19	-198.60	1182.93
	74.78	830.06	343.18	629.06	-193.62	1153.36
	71.60	794.59	328.52	602.17	-185.32	1104.07

	67.15	744.93	308.00	564.54	-173.71	1035.06
	61.42	681.08	281.61	516.15	-158.77	946.34
	54.42	603.04	249.37	457.01	-140.52	837.91
	46.15	510.81	211.26	387.11	-118.95	709.76
	36.61	404.39	167.28	306.46	-94.05	561.89
	25.80	283.78	117.44	215.06	-65.84	394.31
	13.71	148.99	61.74	112.91	-34.31	207.01
	0.00	0.36	0.00	0.18	0.00	0.53
1.25	-0.36	0.00	-0.18	0.00	-0.53	0.00
	12.71	143.27	59.17	108.63	-33.74	199.06
	24.53	272.89	112.86	206.92	-63.79	379.16
	35.11	388.87	160.90	294.86	-90.68	540.30
	44.44	491.21	203.29	372.46	-114.40	682.49
	52.53	579.90	240.02	439.71	-134.96	805.72
	59.38	654.94	271.11	496.61	-152.36	909.99
	64.98	716.34	296.54	543.17	-166.59	995.30
	69.33	764.10	316.32	579.38	-177.66	1061.65
	72.44	798.21	330.45	605.24	-185.57	1109.04
	74.31	818.68	338.93	620.76	-190.31	1137.48
	75.02	818.68	339.29	620.76	-189.25	1137.48
	73.15	798.21	330.81	605.24	-184.50	1109.04
	70.04	764.10	316.68	579.38	-176.60	1061.65
	65.69	716.34	296.90	543.17	-165.52	995.30
	60.09	654.94	271.47	496.61	-151.29	909.99
	53.24	579.90	240.38	439.71	-133.89	805.72
	45.15	491.21	203.64	372.46	-113.33	682.49
	35.82	388.87	161.25	294.86	-89.61	540.30
	25.24	272.89	113.21	206.92	-62.73	379.16
	13.42	143.27	59.52	108.63	-32.68	199.06
	0.00	0.36	0.00	0.18	0.00	0.53
1.30	-0.36	0.00	-0.18	0.00	-0.53	0.00
	12.44	137.99	57.12	104.69	-32.23	191.72
	24.02	262.84	108.96	199.41	-60.91	365.18
	34.38	374.55	155.34	284.16	-86.57	520.38
	43.53	473.12	196.27	358.94	-109.22	657.33
	51.45	558.54	231.74	423.75	-128.84	776.01
	58.15	630.83	261.75	478.59	-145.44	876.44
	63.64	689.97	286.31	523.45	-159.03	958.60
	67.90	735.96	305.40	558.35	-169.60	1022.51
	70.95	768.82	319.05	583.28	-177.14	1068.16
	72.78	788.53	327.23	598.23	-181.67	1095.55
	73.49	788.53	327.59	598.23	-180.60	1095.55
	71.66	768.82	319.40	583.28	-176.08	1068.16
	68.62	735.96	305.76	558.35	-168.53	1022.51
	64.35	689.97	286.66	523.45	-157.96	958.60

	58.86	630.83	262.11	478.59	-144.38	876.44
	52.16	558.54	232.09	423.75	-127.77	776.01
	44.24	473.12	196.62	358.94	-108.15	657.33
	35.10	374.55	155.70	284.16	-85.51	520.38
	24.73	262.84	109.31	199.41	-59.85	365.18
	13.15	137.99	57.47	104.69	-31.17	191.72
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
1.35	12.20	133.11	55.23	101.04	-30.83	184.93
	23.55	253.54	105.35	192.46	-58.24	352.24
	33.72	361.30	150.20	274.25	-82.77	501.95
	42.68	456.38	189.77	346.43	-104.41	634.04
	50.45	538.78	224.07	408.98	-123.16	748.52
	57.03	608.51	253.09	461.90	-139.03	845.38
	62.41	665.55	276.84	505.21	-152.02	924.64
	66.59	709.92	295.30	538.89	-162.12	986.28
	69.58	741.62	308.49	562.94	-169.33	1030.31
	71.38	760.63	316.41	577.38	-173.66	1056.73
	72.09	760.63	316.77	577.38	-172.59	1056.73
	70.29	741.62	308.85	562.94	-168.26	1030.31
	67.30	709.92	295.66	538.89	-161.05	986.28
	63.12	665.55	277.19	505.21	-150.95	924.64
	57.74	608.51	253.45	461.90	-137.97	845.38
	51.17	538.78	224.43	408.98	-122.10	748.52
	43.39	456.38	190.13	346.43	-103.34	634.04
	34.43	361.30	150.56	274.25	-81.70	501.95
	24.27	253.54	105.71	192.46	-57.18	352.24
	12.91	133.11	55.58	101.04	-29.76	184.93
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
1.40	11.97	128.58	53.47	97.65	-29.53	178.62
	23.12	244.91	102.00	186.01	-55.76	340.23
	33.10	349.00	145.43	265.06	-79.23	484.83
	41.91	440.84	183.75	334.81	-99.94	612.42
	49.54	520.44	216.96	395.27	-117.89	723.00
	55.99	587.79	245.06	446.42	-133.07	816.56
	61.28	642.89	268.05	488.27	-145.50	893.11
	65.38	685.75	285.93	520.82	-155.16	952.65
	68.32	716.36	298.71	544.07	-162.07	995.18
	70.08	734.73	306.37	558.02	-166.21	1020.70
	70.79	734.73	306.73	558.02	-165.14	1020.70
	69.03	716.36	299.06	544.07	-161.00	995.18
	66.10	685.75	286.29	520.82	-154.10	952.65
	61.99	642.89	268.41	488.27	-144.43	893.11
	56.70	587.79	245.42	446.42	-132.01	816.56

	50.25	520.44	217.32	395.27	-116.82	723.00
	42.62	440.84	184.11	334.81	-98.87	612.42
	33.81	349.00	145.79	265.06	-78.16	484.83
	23.83	244.91	102.36	186.01	-54.69	340.23
	12.68	128.58	53.82	97.65	-28.46	178.62
	0.00	0.36	0.00	0.18	0.00	0.53
1.45	-0.36	0.00	-0.18	0.00	-0.53	0.00
	11.76	124.36	51.83	94.50	-28.31	172.75
	22.72	236.88	98.89	180.00	-53.44	329.06
	32.53	337.55	141.00	256.51	-75.93	468.90
	41.19	426.38	178.15	324.01	-95.77	592.30
	48.69	503.36	210.34	382.51	-112.97	699.24
	55.04	568.50	237.59	432.01	-127.52	789.73
	60.23	621.80	259.88	472.51	-139.42	863.77
	64.27	663.25	277.22	504.01	-148.68	921.36
	67.15	692.86	289.60	526.51	-155.30	962.49
	68.88	710.63	297.03	540.01	-159.26	987.17
	69.59	710.63	297.39	540.01	-158.20	987.17
	67.86	692.86	289.96	526.51	-154.23	962.49
	64.98	663.25	277.57	504.01	-147.62	921.36
	60.94	621.80	260.23	472.51	-138.36	863.77
	55.75	568.50	237.94	432.01	-126.45	789.73
	49.40	503.36	210.70	382.51	-111.90	699.24
	41.90	426.38	178.50	324.01	-94.71	592.30
	33.24	337.55	141.35	256.51	-74.86	468.90
	23.44	236.88	99.25	180.00	-52.38	329.06
	12.47	124.36	52.19	94.50	-27.24	172.75
	0.00	0.36	0.00	0.18	0.00	0.53
1.50	-0.36	0.00	-0.18	0.00	-0.53	0.00
	11.57	120.42	50.31	91.56	-27.18	167.28
	22.35	229.38	95.99	174.40	-51.28	318.63
	32.01	326.87	136.86	248.53	-72.85	454.04
	40.52	412.88	172.92	313.93	-91.88	573.53
	47.90	487.43	204.18	370.61	-108.37	677.08
	54.15	550.51	230.62	418.57	-122.33	764.70
	59.26	602.12	252.26	457.81	-133.74	836.39
	63.23	642.26	269.09	488.33	-142.63	892.15
	66.07	670.94	281.11	510.13	-148.97	931.98
	67.77	688.14	288.32	523.21	-152.77	955.88
	68.48	688.14	288.68	523.21	-151.71	955.88
	66.78	670.94	281.46	510.13	-147.90	931.98
	63.94	642.26	269.44	488.33	-141.56	892.15
	59.97	602.12	252.61	457.81	-132.68	836.39
	54.86	550.51	230.98	418.57	-121.26	764.70
	48.61	487.43	204.53	370.61	-107.30	677.08

	41.23	412.88	173.28	313.93	-90.81	573.53
	32.72	326.87	137.22	248.53	-71.78	454.04
	23.07	229.38	96.34	174.40	-50.21	318.63
	12.28	120.42	50.67	91.56	-26.11	167.28
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
	11.39	116.74	48.89	88.81	-26.11	162.16
	22.01	222.37	93.28	169.17	-49.25	308.87
	31.52	316.88	132.99	241.06	-69.96	440.14
	39.90	400.26	168.04	304.50	-88.23	555.97
	47.17	472.53	198.41	359.48	-104.07	656.35
	53.32	533.69	224.11	406.00	-117.46	741.29
	58.36	583.72	245.14	444.06	-128.43	810.79
	62.27	622.63	261.49	473.67	-136.95	864.84
	65.07	650.43	273.17	494.81	-143.04	903.45
	66.74	667.11	280.18	507.50	-146.70	926.62
	67.45	667.11	280.54	507.50	-145.63	926.62
	65.78	650.43	273.53	494.81	-141.98	903.45
	62.98	622.63	261.85	473.67	-135.89	864.84
	59.07	583.72	245.49	444.06	-127.36	810.79
	54.03	533.69	224.47	406.00	-116.40	741.29
	47.88	472.53	198.77	359.48	-103.00	656.35
	40.61	400.26	168.39	304.50	-87.17	555.97
	32.23	316.88	133.35	241.06	-68.89	440.14
	22.72	222.37	93.63	169.17	-48.19	308.87
	12.10	116.74	49.24	88.81	-25.05	162.16
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
	11.22	113.29	47.55	86.24	-25.11	157.36
	21.69	215.80	90.73	164.26	-47.35	299.73
	31.06	307.51	129.37	234.07	-67.25	427.12
	39.33	388.44	163.46	295.67	-84.81	539.52
	46.49	458.57	193.01	349.05	-100.03	636.93
	52.55	517.92	218.01	394.22	-112.90	719.36
	57.52	566.47	238.47	431.18	-123.44	786.80
	61.37	604.24	254.38	459.93	-131.63	839.25
	64.13	631.21	265.74	480.46	-137.48	876.72
	65.78	647.40	272.56	492.78	-140.99	899.20
	66.49	647.40	272.91	492.78	-139.93	899.20
	64.84	631.21	266.09	480.46	-136.41	876.72
	62.08	604.24	254.73	459.93	-130.56	839.25
	58.23	566.47	238.82	431.18	-122.37	786.80
	53.27	517.92	218.37	394.22	-111.83	719.36
	47.20	458.57	193.37	349.05	-98.96	636.93
	40.04	388.44	163.82	295.67	-83.74	539.52

	31.77	307.51	129.73	234.07	-66.18	427.12
	22.40	215.80	91.09	164.26	-46.29	299.73
	11.93	113.29	47.91	86.24	-24.05	157.36
	0.00	0.36	0.00	0.18	0.00	0.53
1.65	-0.36	0.00	-0.18	0.00	-0.53	0.00
	11.06	110.06	46.30	83.82	-24.17	152.85
	21.39	209.63	88.35	159.65	-45.56	291.15
	30.63	298.72	125.97	227.50	-64.70	414.89
	38.79	377.33	159.17	287.37	-81.59	524.07
	45.86	445.46	187.94	339.26	-96.23	618.69
	51.84	503.11	212.29	383.16	-108.61	698.76
	56.73	550.28	232.20	419.08	-118.74	764.26
	60.54	586.96	247.70	447.02	-126.62	815.21
	63.26	613.17	258.76	466.98	-132.25	851.61
	64.89	628.89	265.40	478.95	-135.63	873.44
	65.60	628.89	265.76	478.95	-134.56	873.44
	63.97	613.17	259.12	466.98	-131.18	851.61
	61.25	586.96	248.05	447.02	-125.56	815.21
	57.44	550.28	232.56	419.08	-117.67	764.26
	52.55	503.11	212.64	383.16	-107.54	698.76
	46.57	445.46	188.30	339.26	-95.16	618.69
	39.50	377.33	159.53	287.37	-80.52	524.07
	31.35	298.72	126.33	227.50	-63.64	414.89
	22.10	209.63	88.70	159.65	-44.50	291.15
	11.77	110.06	46.65	83.82	-23.11	152.85
	0.00	0.36	0.00	0.18	0.00	0.53
	1.70	-0.36	0.00	-0.18	0.00	-0.53
10.92		107.01	45.12	81.54	-23.29	148.61
21.11		203.82	86.11	155.32	-43.88	283.07
30.24		290.45	122.78	221.33	-62.30	403.38
38.29		366.88	155.13	279.57	-78.56	509.53
45.26		433.13	183.17	330.05	-92.64	601.53
51.17		489.18	206.90	372.76	-104.57	679.37
56.00		535.04	226.32	407.70	-114.32	743.06
59.76		570.71	241.42	434.89	-121.90	792.60
62.44		596.19	252.20	454.30	-127.32	827.98
64.05		611.47	258.67	465.95	-130.57	849.21
64.76		611.47	259.03	465.95	-129.51	849.21
63.15		596.19	252.56	454.30	-126.26	827.98
60.47		570.71	241.77	434.89	-120.84	792.60
56.71		535.04	226.67	407.70	-113.25	743.06
51.88		489.18	207.26	372.76	-103.50	679.37
45.98		433.13	183.53	330.05	-91.58	601.53
39.00		366.88	155.49	279.57	-77.49	509.53
30.95		290.45	123.13	221.33	-61.24	403.38

	21.82	203.82	86.46	155.32	-42.81	283.07
	11.63	107.01	45.48	81.54	-22.22	148.61
	0.00	0.36	0.00	0.18	0.00	0.53
1.75	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.78	104.14	44.01	79.40	-22.46	144.62
	20.85	198.35	83.99	151.23	-42.29	275.46
	29.86	282.65	119.76	215.50	-60.04	392.53
	37.82	357.03	151.33	272.21	-75.69	495.83
	44.71	421.50	178.68	321.36	-89.27	585.35
	50.54	476.05	201.83	362.95	-100.75	661.10
	55.31	520.68	220.77	396.98	-110.14	723.08
	59.02	555.39	235.50	423.45	-117.45	771.28
	61.67	580.18	246.02	442.35	-122.67	805.72
	63.26	595.06	252.33	453.69	-125.80	826.38
	63.98	595.06	252.69	453.69	-124.74	826.38
	62.39	580.18	246.37	442.35	-121.60	805.72
	59.73	555.39	235.85	423.45	-116.38	771.28
	56.02	520.68	221.12	396.98	-109.08	723.08
	51.25	476.05	202.19	362.95	-99.68	661.10
	45.42	421.50	179.04	321.36	-88.20	585.35
	38.53	357.03	151.68	272.21	-74.63	495.83
	30.58	282.65	120.12	215.50	-58.97	392.53
	21.56	198.35	84.35	151.23	-41.22	275.46
	11.49	104.14	44.37	79.40	-21.39	144.62
	0.00	0.36	0.00	0.18	0.00	0.53
	1.80	-0.36	0.00	-0.18	0.00	-0.53
10.65		101.42	42.96	77.37	-21.67	140.84
20.61		193.19	82.00	147.37	-40.79	268.27
29.51		275.29	116.92	210.01	-57.89	382.29
37.37		347.74	147.74	265.27	-72.99	482.89
44.19		410.52	174.44	313.17	-86.07	570.08
49.95		463.65	197.04	353.70	-97.14	643.85
54.67		507.11	215.53	386.85	-106.20	704.21
58.34		540.92	229.91	412.64	-113.24	751.16
60.96		565.07	240.19	431.07	-118.27	784.69
62.53		579.56	246.35	442.12	-121.29	804.81
63.24		579.56	246.70	442.12	-120.23	804.81
61.67		565.07	240.54	431.07	-117.21	784.69
59.05		540.92	230.27	412.64	-112.17	751.16
55.38		507.11	215.89	386.85	-105.13	704.21
50.66		463.65	197.40	353.70	-96.07	643.85
44.90		410.52	174.80	313.17	-85.00	570.08
38.09		347.74	148.09	265.27	-71.92	482.89
30.23		275.29	117.28	210.01	-56.83	382.29
21.32		193.19	82.35	147.37	-39.72	268.27

	11.36	101.42	43.32	77.37	-20.60	140.84
	0.00	0.36	0.00	0.18	0.00	0.53
1.85	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.53	98.86	41.97	75.46	-20.92	137.27
	20.38	188.30	80.11	143.73	-39.36	261.47
	29.19	268.33	114.24	204.81	-55.86	372.60
	36.96	338.94	144.34	258.71	-70.43	470.65
	43.70	400.14	170.44	305.42	-83.05	555.63
	49.40	451.92	192.52	344.94	-93.72	627.54
	54.06	494.29	210.58	377.28	-102.46	686.37
	57.69	527.24	224.63	402.43	-109.25	732.13
	60.28	550.78	234.67	420.40	-114.11	764.81
	61.84	564.90	240.69	431.18	-117.02	784.42
	62.55	564.90	241.05	431.18	-115.95	784.42
	60.99	550.78	235.03	420.40	-113.04	764.81
	58.40	527.24	224.99	402.43	-108.19	732.13
	54.77	494.29	210.94	377.28	-101.39	686.37
	50.11	451.92	192.87	344.94	-92.66	627.54
	44.41	400.14	170.79	305.42	-81.98	555.63
	37.67	338.94	144.70	258.71	-69.36	470.65
	29.90	268.33	114.59	204.81	-54.80	372.60
	21.09	188.30	80.47	143.73	-38.30	261.47
	11.24	98.86	42.33	75.46	-19.85	137.27
	0.00	0.36	0.00	0.18	0.00	0.53
	1.90	-0.36	0.00	-0.18	0.00	-0.53
10.41		96.43	41.04	73.64	-20.21	133.89
20.16		183.67	78.33	140.27	-38.01	255.04
28.88		261.74	111.69	199.89	-53.94	363.43
36.57		330.61	141.13	252.49	-68.00	459.06
43.24		390.31	166.65	298.08	-80.18	541.95
48.88		440.82	188.24	336.65	-90.48	612.09
53.49		482.14	205.90	368.21	-98.92	669.47
57.08		514.29	219.64	392.76	-105.47	714.10
59.65		537.25	229.45	410.30	-110.16	745.98
61.18		551.02	235.34	420.82	-112.97	765.11
61.90		551.02	235.69	420.82	-111.90	765.11
60.36		537.25	229.81	410.30	-109.09	745.98
57.79		514.29	219.99	392.76	-104.41	714.10
54.20		482.14	206.25	368.21	-97.85	669.47
49.59		440.82	188.59	336.65	-89.42	612.09
43.95		390.31	167.00	298.08	-79.11	541.95
37.28		330.61	141.49	252.49	-66.93	459.06
29.59		261.74	112.05	199.89	-52.87	363.43
20.87		183.67	78.68	140.27	-36.95	255.04
11.12	96.43	41.39	73.64	-19.14	133.89	

	0.00	0.36	0.00	0.18	0.00	0.53
1.95	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.31	94.12	40.15	71.92	-19.54	130.69
	19.95	179.29	76.64	137.00	-36.73	248.93
	28.58	255.48	109.28	195.22	-52.11	354.73
	36.20	322.71	138.09	246.59	-65.69	448.07
	42.80	380.98	163.05	291.12	-77.45	528.98
	48.38	430.28	184.17	328.79	-87.41	597.43
	52.95	470.62	201.46	359.62	-95.55	653.44
	56.51	502.00	214.90	383.59	-101.88	697.00
	59.05	524.41	224.50	400.71	-106.41	728.12
	60.57	537.86	230.26	410.99	-109.12	746.79
	61.28	537.86	230.62	410.99	-108.06	746.79
	59.76	524.41	224.86	400.71	-105.34	728.12
	57.22	502.00	215.26	383.59	-100.82	697.00
	53.66	470.62	201.81	359.62	-94.48	653.44
	49.10	430.28	184.53	328.79	-86.34	597.43
	43.51	380.98	163.41	291.12	-76.39	528.98
	36.91	322.71	138.44	246.59	-64.62	448.07
	29.29	255.48	109.64	195.22	-51.05	354.73
	20.66	179.29	76.99	137.00	-35.66	248.93
	11.02	94.12	40.50	71.92	-18.47	130.69
0.00	0.36	0.00	0.18	0.00	0.53	
2.00	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.20	91.94	39.31	70.29	-18.90	127.64
	19.76	175.12	75.03	133.89	-35.51	243.13
	28.31	249.54	106.99	190.79	-50.38	346.46
	35.85	315.21	135.20	240.99	-63.49	437.64
	42.39	372.12	159.64	284.51	-74.86	516.65
	47.92	420.28	180.32	321.33	-84.48	583.51
	52.45	459.68	197.24	351.45	-92.35	638.22
	55.97	490.33	210.40	374.88	-98.47	680.77
	58.48	512.22	219.80	391.62	-102.84	711.16
	59.99	525.35	225.44	401.66	-105.47	729.39
	60.70	525.35	225.80	401.66	-104.40	729.39
	59.19	512.22	220.16	391.62	-101.78	711.16
	56.68	490.33	210.76	374.88	-97.40	680.77
	53.16	459.68	197.60	351.45	-91.28	638.22
	48.63	420.28	180.68	321.33	-83.41	583.51
	43.10	372.12	159.99	284.51	-73.79	516.65
	36.56	315.21	135.55	240.99	-62.43	437.64
	29.02	249.54	107.35	190.79	-49.31	346.46
	20.47	175.12	75.39	133.89	-34.44	243.13
	10.92	91.94	39.66	70.29	-17.83	127.64
0.00	0.36	0.00	0.18	0.00	0.53	

2.05	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.11	89.86	38.50	68.74	-18.29	124.75
	19.58	171.15	73.50	130.93	-34.35	237.62
	28.05	243.89	104.82	186.57	-48.72	338.60
	35.52	308.08	132.45	235.67	-61.40	427.71
	42.00	363.70	156.39	278.22	-72.39	504.93
	47.48	410.77	176.66	314.23	-81.69	570.28
	51.97	449.28	193.23	343.68	-89.30	623.74
	55.45	479.23	206.13	366.60	-95.22	665.33
	57.94	500.62	215.34	382.96	-99.45	695.03
	59.44	513.46	220.86	392.78	-101.98	712.85
	60.15	513.46	221.22	392.78	-100.92	712.85
	58.66	500.62	215.69	382.96	-98.38	695.03
	56.16	479.23	206.48	366.60	-94.15	665.33
	52.68	449.28	193.59	343.68	-88.24	623.74
	48.19	410.77	177.01	314.23	-80.63	570.28
	42.71	363.70	156.75	278.22	-71.33	504.93
	36.23	308.08	132.80	235.67	-60.34	427.71
	28.76	243.89	105.17	186.57	-47.66	338.60
	20.29	171.15	73.86	130.93	-33.28	237.62
10.82	89.86	38.86	68.74	-17.22	124.75	
0.00	0.36	0.00	0.18	0.00	0.53	
2.10	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.02	87.87	37.74	67.26	-17.71	121.99
	19.40	167.38	72.05	128.11	-33.24	232.37
	27.80	238.52	102.75	182.56	-47.15	331.12
	35.21	301.28	129.83	230.60	-59.41	418.26
	41.63	355.68	153.31	272.24	-70.04	493.78
	47.06	401.71	173.17	307.47	-79.04	557.68
	51.51	439.37	189.42	336.29	-86.40	609.96
	54.97	468.66	202.06	358.71	-92.12	650.62
	57.44	489.59	211.09	374.73	-96.21	679.67
	58.92	502.14	216.51	384.33	-98.67	697.10
	59.63	502.14	216.86	384.33	-97.60	697.10
	58.15	489.59	211.44	374.73	-95.15	679.67
	55.68	468.66	202.42	358.71	-91.06	650.62
	52.22	439.37	189.78	336.29	-85.33	609.96
	47.78	401.71	173.52	307.47	-77.97	557.68
	42.34	355.68	153.66	272.24	-68.98	493.78
	35.92	301.28	130.19	230.60	-58.35	418.26
	28.51	238.52	103.10	182.56	-46.08	331.12
	20.11	167.38	72.41	128.11	-32.18	232.37
10.73	87.87	38.10	67.26	-16.64	121.99	
0.00	0.36	0.00	0.18	0.00	0.53	
2.15	-0.36	0.00	-0.18	0.00	-0.53	0.00

	9.93	85.99	37.01	65.85	-17.15	119.36
	19.24	163.78	70.67	125.43	-32.19	227.36
	27.57	233.39	100.77	178.73	-45.64	323.99
	34.91	294.81	127.34	225.77	-57.51	409.25
	41.28	348.04	150.36	266.53	-67.80	483.14
	46.67	393.08	169.85	301.03	-76.51	545.66
	51.08	429.93	185.79	329.25	-83.63	596.82
	54.51	458.59	198.18	351.20	-89.17	636.61
	56.96	479.06	207.04	366.87	-93.12	665.03
	58.43	491.35	212.35	376.28	-95.50	682.08
	59.14	491.35	212.71	376.28	-94.43	682.08
	57.67	479.06	207.39	366.87	-92.06	665.03
	55.22	458.59	198.54	351.20	-88.10	636.61
	51.79	429.93	186.14	329.25	-82.56	596.82
	47.38	393.08	170.20	301.03	-75.44	545.66
	41.99	348.04	150.72	266.53	-66.73	483.14
	35.62	294.81	127.70	225.77	-56.45	409.25
	28.28	233.39	101.13	178.73	-44.58	323.99
	19.95	163.78	71.02	125.43	-31.12	227.36
	10.64	85.99	37.37	65.85	-16.09	119.36
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
2.20	9.85	84.18	36.32	64.50	-16.62	116.86
	19.08	160.35	69.34	122.87	-31.18	222.58
	27.34	228.50	98.89	175.08	-44.20	317.18
	34.63	288.63	124.96	221.16	-55.70	400.65
	40.95	340.74	147.56	261.09	-65.66	472.99
	46.30	384.84	166.68	294.88	-74.08	534.20
	50.67	420.92	182.32	322.52	-80.98	584.28
	54.07	448.98	194.48	344.02	-86.34	623.23
	56.50	469.02	203.17	359.38	-90.17	651.06
	57.96	481.05	208.39	368.60	-92.47	667.75
	58.67	481.05	208.74	368.60	-91.41	667.75
	57.21	469.02	203.53	359.38	-89.11	651.06
	54.78	448.98	194.84	344.02	-85.28	623.23
	51.38	420.92	182.67	322.52	-79.91	584.28
	47.01	384.84	167.03	294.88	-73.02	534.20
	41.66	340.74	147.91	261.09	-64.59	472.99
	35.34	288.63	125.32	221.16	-54.63	400.65
	28.05	228.50	99.25	175.08	-43.14	317.18
	19.79	160.35	69.70	122.87	-30.11	222.58
	10.56	84.18	36.68	64.50	-15.56	116.86
	0.00	0.36	0.00	0.18	0.00	0.53
2.25	-0.36	0.00	-0.18	0.00	-0.53	0.00
	9.77	82.46	35.66	63.22	-16.12	114.46

	18.93	157.07	68.08	120.42	-30.21	218.02
	27.13	223.82	97.09	171.60	-42.83	310.68
	34.37	282.73	122.69	216.75	-53.96	392.44
	40.63	333.77	144.88	255.89	-63.61	463.29
	45.94	376.97	163.65	289.01	-71.77	523.25
	50.28	412.31	179.01	316.10	-78.45	572.30
	53.66	439.80	190.95	337.17	-83.64	610.46
	56.07	459.43	199.49	352.23	-87.35	637.71
	57.51	471.21	204.60	361.26	-89.58	654.06
	58.22	471.21	204.96	361.26	-88.51	654.06
	56.78	459.43	199.84	352.23	-86.29	637.71
	54.37	439.80	191.31	337.17	-82.58	610.46
	50.99	412.31	179.36	316.10	-77.38	572.30
	46.65	376.97	164.00	289.01	-70.70	523.25
	41.35	333.77	145.23	255.89	-62.54	463.29
	35.08	282.73	123.05	216.75	-52.89	392.44
	27.84	223.82	97.45	171.60	-41.76	310.68
	19.65	157.07	68.44	120.42	-29.15	218.02
	10.48	82.46	36.01	63.22	-15.05	114.46
	0.00	0.36	0.00	0.18	0.00	0.53
2.30	-0.36	0.00	-0.18	0.00	-0.53	0.00
	9.70	80.81	35.03	61.99	-15.63	112.17
	18.79	153.93	66.88	118.08	-29.29	213.66
	26.93	219.35	95.38	168.26	-41.51	304.46
	34.11	277.08	120.52	212.54	-52.30	384.58
	40.33	327.11	142.31	250.92	-61.64	454.02
	45.60	369.44	160.75	283.39	-69.55	512.77
	49.91	404.07	175.84	309.96	-76.02	560.85
	53.26	431.01	187.58	330.62	-81.06	598.24
	55.65	450.25	195.96	345.38	-84.65	624.94
	57.09	461.80	200.99	354.24	-86.81	640.97
	57.80	461.80	201.34	354.24	-85.74	640.97
	56.36	450.25	196.31	345.38	-83.58	624.94
	53.97	431.01	187.93	330.62	-79.99	598.24
	50.62	404.07	176.20	309.96	-74.96	560.85
	46.31	369.44	161.11	283.39	-68.49	512.77
	41.05	327.11	142.67	250.92	-60.58	454.02
	34.82	277.08	120.88	212.54	-51.23	384.58
	27.64	219.35	95.73	168.26	-40.45	304.46
	19.50	153.93	67.23	118.08	-28.22	213.66
	10.41	80.81	35.38	61.99	-14.56	112.17
	0.00	0.36	0.00	0.18	0.00	0.53
2.35	-0.36	0.00	-0.18	0.00	-0.53	0.00
	9.63	79.24	34.42	60.82	-15.17	109.98
	18.66	150.93	65.72	115.84	-28.41	209.48

	26.74	215.08	93.73	165.07	-40.25	298.51
	33.87	271.68	118.44	208.51	-50.71	377.06
	40.05	320.73	139.86	246.16	-59.76	445.14
	45.28	362.23	157.99	278.02	-67.43	502.75
	49.56	396.19	172.81	304.08	-73.70	549.88
	52.88	422.61	184.35	324.35	-78.58	586.54
	55.26	441.47	192.58	338.83	-82.06	612.72
	56.69	452.79	197.53	347.52	-84.15	628.43
	57.40	452.79	197.88	347.52	-83.09	628.43
	55.97	441.47	192.94	338.83	-81.00	612.72
	53.59	422.61	184.70	324.35	-77.51	586.54
	50.27	396.19	173.17	304.08	-72.63	549.88
	45.99	362.23	158.34	278.02	-66.36	502.75
	40.76	320.73	140.22	246.16	-58.70	445.14
	34.58	271.68	118.80	208.51	-49.64	377.06
	27.45	215.08	94.09	165.07	-39.19	298.51
	19.37	150.93	66.08	115.84	-27.34	209.48
	10.34	79.24	34.78	60.82	-14.10	109.98
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
2.40	9.96	78.13	34.24	60.09	-14.32	108.42
	19.30	148.82	65.39	114.46	-26.79	206.51
	27.65	212.07	93.25	163.11	-37.95	294.28
	35.02	267.88	117.84	206.03	-47.80	371.72
	41.41	316.25	139.15	243.23	-56.33	438.84
	46.81	357.17	157.18	274.71	-63.55	495.63
	51.23	390.66	171.93	300.46	-69.46	542.09
	54.67	416.70	183.40	320.49	-74.05	578.23
	57.13	435.30	191.60	334.80	-77.34	604.05
	58.60	446.47	196.51	343.39	-79.30	619.54
	59.32	446.47	196.87	343.39	-78.24	619.54
	57.84	435.30	191.95	334.80	-76.27	604.05
	55.39	416.70	183.76	320.49	-72.99	578.23
	51.95	390.66	172.28	300.46	-68.39	542.09
	47.52	357.17	157.53	274.71	-62.48	495.63
	42.12	316.25	139.50	243.23	-55.26	438.84
	35.73	267.88	118.19	206.03	-46.73	371.72
	28.36	212.07	93.61	163.11	-36.88	294.28
	20.01	148.82	65.74	114.46	-25.72	206.51
	10.67	78.13	34.60	60.09	-13.25	108.42
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
2.45	9.90	76.68	33.69	59.01	-13.89	106.40
	19.17	146.06	64.32	112.40	-25.98	202.67
	27.47	208.14	91.74	160.17	-36.79	288.80

	34.79	262.91	115.92	202.32	-46.34	364.80
	41.14	310.38	136.89	238.85	-54.61	430.67
	46.51	350.54	154.62	269.76	-61.60	486.41
	50.90	383.41	169.14	295.05	-67.33	532.01
	54.32	408.97	180.42	314.72	-71.78	567.47
	56.76	427.23	188.49	328.77	-74.96	592.81
	58.23	438.18	193.32	337.20	-76.87	608.01
	58.94	438.18	193.68	337.20	-75.81	608.01
	57.47	427.23	188.84	328.77	-73.90	592.81
	55.03	408.97	180.78	314.72	-70.72	567.47
	51.61	383.41	169.49	295.05	-66.26	532.01
	47.22	350.54	154.98	269.76	-60.54	486.41
	41.85	310.38	137.24	238.85	-53.54	430.67
	35.50	262.91	116.28	202.32	-45.27	364.80
	28.18	208.14	92.09	160.17	-35.73	288.80
	19.88	146.06	64.68	112.40	-24.91	202.67
	10.61	76.68	34.04	59.01	-12.83	106.40
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
	9.83	75.29	33.15	57.97	-13.48	104.46
	19.05	143.41	63.30	110.42	-25.20	198.98
	27.30	204.36	90.28	157.35	-35.68	283.55
	34.58	258.14	114.09	198.76	-44.93	358.16
	40.88	304.74	134.72	234.65	-52.95	422.83
	46.22	344.18	152.18	265.02	-59.73	477.55
	50.59	376.45	166.46	289.86	-65.28	522.32
	53.98	401.54	177.57	309.19	-69.60	557.14
	56.41	419.47	185.50	322.99	-72.69	582.02
	57.87	430.23	190.27	331.27	-74.54	596.94
	58.58	430.23	190.62	331.27	-73.47	596.94
	57.12	419.47	185.86	322.99	-71.62	582.02
	54.69	401.54	177.92	309.19	-68.54	557.14
	51.30	376.45	166.82	289.86	-64.22	522.32
	46.93	344.18	152.53	265.02	-58.67	477.55
	41.60	304.74	135.07	234.65	-51.88	422.83
	35.29	258.14	114.44	198.76	-43.87	358.16
	28.01	204.36	90.64	157.35	-34.62	283.55
	19.76	143.41	63.66	110.42	-24.13	198.98
	10.54	75.29	33.51	57.97	-12.42	104.46
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
	9.77	73.95	32.64	56.97	-13.09	102.60
	18.94	140.86	62.32	108.52	-24.45	195.44
	27.14	200.73	88.89	154.65	-34.62	278.50
	34.37	253.55	112.33	195.34	-43.59	351.79

	40.64	299.33	132.64	230.61	-51.36	415.30
	45.94	338.07	149.83	260.46	-57.94	469.05
	50.29	369.76	163.89	284.87	-63.32	513.02
	53.66	394.41	174.83	303.87	-67.50	547.22
	56.07	412.02	182.64	317.43	-70.49	571.65
	57.52	422.59	187.33	325.57	-72.29	586.31
	58.23	422.59	187.68	325.57	-71.22	586.31
	56.78	412.02	182.99	317.43	-69.43	571.65
	54.37	394.41	175.18	303.87	-66.44	547.22
	51.00	369.76	164.24	284.87	-62.25	513.02
	46.66	338.07	150.18	260.46	-56.87	469.05
	41.35	299.33	132.99	230.61	-50.29	415.30
	35.08	253.55	112.68	195.34	-42.52	351.79
	27.85	200.73	89.24	154.65	-33.55	278.50
	19.65	140.86	62.68	108.52	-23.39	195.44
	10.48	73.95	32.99	56.97	-12.02	102.60
	0.00	0.36	0.00	0.18	0.00	0.53
2.60	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.11	73.06	32.54	56.41	-12.32	101.35
	19.58	139.17	62.14	107.45	-22.98	193.05
	28.05	198.31	88.62	153.12	-32.52	275.09
	35.53	250.50	111.99	193.41	-40.93	347.49
	42.01	295.73	132.24	228.33	-48.23	410.23
	47.49	334.00	149.38	257.88	-54.40	463.32
	51.98	365.32	163.40	282.06	-59.45	506.75
	55.46	389.67	174.30	300.86	-63.37	540.54
	57.96	407.07	182.09	314.30	-66.18	564.67
	59.45	417.51	186.77	322.35	-67.86	579.15
	60.16	417.51	187.12	322.35	-66.80	579.15
	58.67	407.07	182.45	314.30	-65.11	564.67
	56.18	389.67	174.66	300.86	-62.31	540.54
	52.69	365.32	163.75	282.06	-58.38	506.75
	48.20	334.00	149.73	257.88	-53.33	463.32
	42.72	295.73	132.60	228.33	-47.16	410.23
	36.24	250.50	112.34	193.41	-39.86	347.49
	28.76	198.31	88.98	153.12	-31.45	275.09
	20.29	139.17	62.49	107.45	-21.91	193.05
10.82	73.06	32.89	56.41	-11.25	101.35	
0.00	0.36	0.00	0.18	0.00	0.53	
2.65	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.05	71.83	32.06	55.49	-11.95	99.63
	19.47	136.81	61.23	105.69	-22.29	189.77
	27.90	194.95	87.33	150.61	-31.53	270.42
	35.33	246.26	110.35	190.25	-39.69	341.58
	41.78	290.72	130.31	224.60	-46.76	403.26

	47.23	328.34	147.20	253.66	-52.74	455.44
	51.69	359.13	161.01	277.44	-57.63	498.14
	55.16	383.07	171.76	295.94	-61.44	531.35
	57.64	400.17	179.44	309.15	-64.16	555.07
	59.13	410.43	184.04	317.08	-65.79	569.30
	59.84	410.43	184.40	317.08	-64.72	569.30
	58.35	400.17	179.79	309.15	-63.09	555.07
	55.87	383.07	172.12	295.94	-60.37	531.35
	52.40	359.13	161.37	277.44	-56.57	498.14
	47.94	328.34	147.55	253.66	-51.67	455.44
	42.49	290.72	130.67	224.60	-45.69	403.26
	36.04	246.26	110.71	190.25	-38.62	341.58
	28.61	194.95	87.68	150.61	-30.46	270.42
	20.18	136.81	61.58	105.69	-21.22	189.77
	10.76	71.83	32.42	55.49	-10.89	99.63
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.00	70.63	31.60	54.60	-11.60	97.97
	19.37	134.54	60.35	104.00	-21.62	186.61
	27.75	191.72	86.08	148.20	-30.58	265.92
	35.15	242.17	108.78	187.20	-38.49	335.90
	41.56	285.90	128.45	221.00	-45.34	396.54
	46.98	322.90	145.10	249.59	-51.14	447.86
	51.42	353.17	158.72	272.99	-55.88	489.85
	54.87	376.71	169.31	291.19	-59.57	522.50
	57.33	393.53	176.88	304.19	-62.21	545.83
	58.81	403.62	181.42	311.99	-63.79	559.83
	59.52	403.62	181.78	311.99	-62.73	559.83
	58.05	393.53	177.24	304.19	-61.14	545.83
	55.58	376.71	169.67	291.19	-58.51	522.50
	52.13	353.17	159.08	272.99	-54.82	489.85
	47.69	322.90	145.46	249.59	-50.07	447.86
	42.27	285.90	128.81	221.00	-44.28	396.54
	35.86	242.17	109.14	187.20	-37.42	335.90
	28.46	191.72	86.44	148.20	-29.51	265.92
	20.08	134.54	60.71	104.00	-20.55	186.61
	10.71	70.63	31.96	54.60	-10.54	97.97
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
	9.95	69.49	31.16	53.74	-11.27	96.37
	19.27	132.35	59.51	102.37	-20.98	183.57
	27.61	188.60	84.88	145.87	-29.67	261.58
	34.97	238.23	107.27	184.26	-37.33	330.42
	41.34	281.25	126.67	217.53	-43.98	390.08
	46.74	317.65	143.08	245.68	-49.60	440.56

	51.16	347.43	156.51	268.71	-54.20	481.86
	54.59	370.59	166.96	286.62	-57.78	513.98
	57.04	387.13	174.42	299.42	-60.33	536.93
	58.51	397.06	178.89	307.10	-61.87	550.70
	59.23	397.06	179.25	307.10	-60.80	550.70
	57.75	387.13	174.77	299.42	-59.27	536.93
	55.30	370.59	167.31	286.62	-56.71	513.98
	51.87	347.43	156.87	268.71	-53.13	481.86
	47.45	317.65	143.44	245.68	-48.53	440.56
	42.06	281.25	127.02	217.53	-42.91	390.08
	35.68	238.23	107.62	184.26	-36.27	330.42
	28.32	188.60	85.24	145.87	-28.60	261.58
	19.98	132.35	59.87	102.37	-19.91	183.57
	10.66	69.49	31.52	53.74	-10.20	96.37
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
	9.94	68.42	30.77	52.96	-10.90	94.88
	19.25	130.32	58.78	100.87	-20.28	180.73
	27.58	185.70	83.83	143.74	-28.68	257.54
	34.93	234.57	105.94	181.56	-36.08	325.32
	41.30	276.93	125.10	214.34	-42.50	384.05
	46.69	312.76	141.31	242.08	-47.93	433.76
	51.10	342.09	154.58	264.78	-52.38	474.42
	54.53	364.89	164.89	282.43	-55.83	506.05
	56.98	381.18	172.26	295.04	-58.30	528.64
	58.45	390.95	176.68	302.60	-59.78	542.19
	59.16	390.95	177.04	302.60	-58.72	542.19
	57.69	381.18	172.62	295.04	-57.24	528.64
	55.24	364.89	165.25	282.43	-54.77	506.05
	51.81	342.09	154.93	264.78	-51.31	474.42
	47.40	312.76	141.67	242.08	-46.87	433.76
	42.01	276.93	125.45	214.34	-41.44	384.05
	35.64	234.57	106.29	181.56	-35.02	325.32
	28.29	185.70	84.19	143.74	-27.61	257.54
	19.96	130.32	59.13	100.87	-19.22	180.73
	10.65	68.42	31.13	52.96	-9.84	94.88
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
	9.89	67.35	30.36	52.16	-10.59	93.40
	19.15	128.28	57.99	99.35	-19.68	177.90
	27.45	182.80	82.72	141.57	-27.82	253.51
	34.76	230.91	104.53	178.83	-35.01	320.22
	41.10	272.60	123.44	211.12	-41.23	378.04
	46.47	307.88	139.43	238.44	-46.50	426.96
	50.86	336.74	152.52	260.79	-50.81	466.99

	54.27	359.19	162.70	278.18	-54.16	498.12
	56.71	375.23	169.97	290.60	-56.55	520.36
	58.17	384.85	174.34	298.05	-57.99	533.70
	58.89	384.85	174.69	298.05	-56.92	533.70
	57.42	375.23	170.33	290.60	-55.49	520.36
	54.98	359.19	163.06	278.18	-53.09	498.12
	51.57	336.74	152.88	260.79	-49.74	466.99
	47.18	307.88	139.79	238.44	-45.43	426.96
	41.81	272.60	123.79	211.12	-40.16	378.04
	35.47	230.91	104.89	178.83	-33.94	320.22
	28.16	182.80	83.07	141.57	-26.76	253.51
	19.87	128.28	58.35	99.35	-18.62	177.90
	10.60	67.35	30.72	52.16	-9.52	93.40
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
2.90	9.84	66.32	29.97	51.39	-10.28	91.96
	19.07	126.32	57.24	97.88	-19.11	175.17
	27.32	180.01	81.64	139.48	-27.00	249.61
	34.60	227.38	103.17	176.19	-33.97	315.30
	40.91	268.43	121.83	208.00	-40.00	372.23
	46.26	303.17	137.62	234.92	-45.11	420.40
	50.63	331.59	150.54	256.95	-49.29	459.82
	54.02	353.69	160.59	274.07	-52.54	490.47
	56.45	369.48	167.76	286.31	-54.86	512.37
	57.91	378.96	172.07	293.65	-56.25	525.50
	58.62	378.96	172.43	293.65	-55.19	525.50
	57.16	369.48	168.12	286.31	-53.79	512.37
	54.74	353.69	160.94	274.07	-51.47	490.47
	51.34	331.59	150.90	256.95	-48.22	459.82
	46.97	303.17	137.98	234.92	-44.04	420.40
	41.63	268.43	122.19	208.00	-38.94	372.23
	35.31	227.38	103.53	176.19	-32.90	315.30
	28.03	180.01	82.00	139.48	-25.93	249.61
	19.78	126.32	57.59	97.88	-18.04	175.17
	10.55	66.32	30.32	51.39	-9.22	91.96
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
2.95	9.80	65.32	29.58	50.65	-9.99	90.58
	18.98	124.42	56.51	96.47	-18.55	172.53
	27.20	177.30	80.60	137.47	-26.20	245.85
	34.45	223.96	101.86	173.64	-32.96	310.55
	40.73	264.40	120.28	205.00	-38.81	366.62
	46.05	298.61	135.87	231.52	-43.77	414.07
	50.40	326.61	148.63	253.23	-47.82	452.89
	53.79	348.38	158.55	270.11	-50.97	483.08

	56.20	363.94	165.63	282.17	-53.23	504.64
	57.65	373.27	169.88	289.41	-54.58	517.58
	58.36	373.27	170.24	289.41	-53.51	517.58
	56.91	363.94	165.99	282.17	-52.16	504.64
	54.50	348.38	158.90	270.11	-49.91	483.08
	51.11	326.61	148.98	253.23	-46.76	452.89
	46.76	298.61	136.23	231.52	-42.70	414.07
	41.44	264.40	120.64	205.00	-37.75	366.62
	35.16	223.96	102.21	173.64	-31.89	310.55
	27.91	177.30	80.96	137.47	-25.14	245.85
	19.69	124.42	56.86	96.47	-17.48	172.53
	10.51	65.32	29.94	50.65	-8.92	90.58
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
	9.75	64.36	29.21	49.93	-9.71	89.24
	18.90	122.59	55.80	95.10	-18.01	169.98
	27.08	174.69	79.60	135.52	-25.43	242.22
	34.30	220.66	100.59	171.18	-31.99	305.96
	40.56	260.50	118.79	202.09	-37.67	361.20
	45.85	294.21	134.18	228.24	-42.47	407.94
	50.19	321.80	146.78	249.64	-46.40	446.19
	53.56	343.25	156.57	266.28	-49.46	475.94
	55.96	358.57	163.57	278.17	-51.65	497.18
	57.41	367.77	167.77	285.30	-52.96	509.93
	58.12	367.77	168.13	285.30	-51.89	509.93
	56.67	358.57	163.93	278.17	-50.58	497.18
	54.27	343.25	156.93	266.28	-48.40	475.94
	50.90	321.80	147.13	249.64	-45.34	446.19
	46.57	294.21	134.54	228.24	-41.41	407.94
	41.27	260.50	119.14	202.09	-36.60	361.20
	35.01	220.66	100.95	171.18	-30.92	305.96
	27.79	174.69	79.95	135.52	-24.37	242.22
	19.61	122.59	56.16	95.10	-16.94	169.98
	10.46	64.36	29.57	49.93	-8.64	89.24
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
	9.71	63.43	28.86	49.23	-9.43	87.94
	18.82	120.82	55.12	93.78	-17.48	167.51
	26.97	172.16	78.63	133.63	-24.69	238.70
	34.16	217.47	99.36	168.80	-31.05	301.52
	40.39	256.73	117.34	199.28	-36.55	355.96
	45.66	289.96	132.55	225.07	-41.22	402.02
	49.98	317.14	144.99	246.17	-45.03	439.71
	53.33	338.29	154.67	262.58	-48.00	469.03
	55.73	353.39	161.58	274.30	-50.12	489.97

	57.17	362.45	165.73	281.34	-51.39	502.53
	57.88	362.45	166.08	281.34	-50.32	502.53
	56.44	353.39	161.93	274.30	-49.05	489.97
	54.05	338.29	155.02	262.58	-46.93	469.03
	50.69	317.14	145.34	246.17	-43.96	439.71
	46.38	289.96	132.90	225.07	-40.15	402.02
	41.10	256.73	117.69	199.28	-35.49	355.96
	34.87	217.47	99.72	168.80	-29.98	301.52
	27.68	172.16	78.98	133.63	-23.62	238.70
	19.53	120.82	55.48	93.78	-16.42	167.51
	10.42	63.43	29.21	49.23	-8.37	87.94
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
3.10	9.67	62.53	28.51	48.56	-9.17	86.69
	18.74	119.10	54.46	92.50	-16.98	165.12
	26.86	169.72	77.69	131.81	-23.97	235.30
	34.02	214.38	98.18	166.50	-30.13	297.22
	40.23	253.09	115.94	196.56	-35.48	350.89
	45.48	285.84	130.96	222.00	-40.00	396.30
	49.78	312.64	143.26	242.81	-43.70	433.45
	53.12	333.48	152.82	259.00	-46.58	462.34
	55.51	348.37	159.65	270.56	-48.63	482.98
	56.94	357.30	163.75	277.50	-49.87	495.37
	57.65	357.30	164.11	277.50	-48.80	495.37
	56.22	348.37	160.01	270.56	-47.57	482.98
	53.83	333.48	153.18	259.00	-45.51	462.34
	50.49	312.64	143.61	242.81	-42.63	433.45
	46.19	285.84	131.32	222.00	-38.93	396.30
	40.94	253.09	116.29	196.56	-34.41	350.89
	34.73	214.38	98.53	166.50	-29.07	297.22
	27.57	169.72	78.04	131.81	-22.90	235.30
	19.45	119.10	54.82	92.50	-15.91	165.12
	10.38	62.53	28.87	48.56	-8.10	86.69
0.00	0.36	0.00	0.18	0.00	0.53	
3.15	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.05	62.08	28.60	48.33	-8.49	86.04
	19.47	118.24	54.63	92.06	-15.69	163.89
	27.90	168.49	77.92	131.19	-22.13	233.55
	35.33	212.83	98.47	165.71	-27.81	295.01
	41.78	251.26	116.29	195.63	-32.73	348.27
	47.23	283.78	131.36	220.95	-36.90	393.35
	51.69	310.38	143.69	241.66	-40.31	430.22
	55.16	331.08	153.28	257.77	-42.96	458.90
	57.64	345.86	160.13	269.28	-44.85	479.39
	59.13	354.72	164.24	276.19	-45.99	491.68

	59.84	354.72	164.60	276.19	-44.92	491.68
	58.35	345.86	160.49	269.28	-43.79	479.39
	55.87	331.08	153.64	257.77	-41.89	458.90
	52.40	310.38	144.04	241.66	-39.24	430.22
	47.94	283.78	131.71	220.95	-35.83	393.35
	42.49	251.26	116.64	195.63	-31.67	348.27
	36.04	212.83	98.83	165.71	-26.74	295.01
	28.61	168.49	78.28	131.19	-21.06	233.55
	20.18	118.24	54.98	92.06	-14.62	163.89
	10.76	62.08	28.95	48.33	-7.42	86.04
	0.00	0.36	0.00	0.18	0.00	0.53
3.20	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.02	61.23	28.27	47.70	-8.24	84.87
	19.40	116.63	54.01	90.86	-15.21	161.65
	27.79	166.20	77.04	129.48	-21.45	230.36
	35.20	209.94	97.36	163.55	-26.95	290.98
	41.62	247.84	114.97	193.08	-31.73	343.51
	47.05	279.91	129.87	218.07	-35.76	387.97
	51.50	306.16	142.06	238.51	-39.06	424.34
	54.96	326.57	151.55	254.41	-41.63	452.63
	57.43	341.15	158.32	265.77	-43.47	472.84
	58.91	349.89	162.38	272.58	-44.57	484.96
	59.62	349.89	162.74	272.58	-43.50	484.96
	58.14	341.15	158.68	265.77	-42.40	472.84
	55.67	326.57	151.90	254.41	-40.57	452.63
	52.21	306.16	142.42	238.51	-38.00	424.34
	47.77	279.91	130.23	218.07	-34.70	387.97
	42.33	247.84	115.33	193.08	-30.66	343.51
	35.91	209.94	97.71	163.55	-25.89	290.98
	28.51	166.20	77.39	129.48	-20.38	230.36
	20.11	116.63	54.36	90.86	-14.15	161.65
	10.73	61.23	28.63	47.70	-7.17	84.87
	0.00	0.36	0.00	0.18	0.00	0.53
3.25	-0.36	0.00	-0.18	0.00	-0.53	0.00
	9.98	60.41	27.96	47.09	-8.00	83.73
	19.33	115.07	53.41	89.70	-14.75	159.48
	27.69	163.98	76.18	127.82	-20.80	227.26
	35.08	207.13	96.28	161.45	-26.13	287.07
	41.47	244.52	113.70	190.61	-30.75	338.90
	46.89	276.17	128.43	215.27	-34.66	382.76
	51.32	302.06	140.49	235.45	-37.86	418.64
	54.76	322.20	149.87	251.15	-40.35	446.55
	57.22	336.58	156.56	262.36	-42.12	466.48
	58.70	345.21	160.58	269.09	-43.19	478.45
	59.41	345.21	160.94	269.09	-42.12	478.45

	57.93	336.58	156.92	262.36	-41.06	466.48
	55.47	322.20	150.22	251.15	-39.28	446.55
	52.03	302.06	140.84	235.45	-36.79	418.64
	47.60	276.17	128.79	215.27	-33.59	382.76
	42.18	244.52	114.05	190.61	-29.68	338.90
	35.79	207.13	96.63	161.45	-25.06	287.07
	28.41	163.98	76.54	127.82	-19.73	227.26
	20.04	115.07	53.76	89.70	-13.69	159.48
	10.69	60.41	28.31	47.09	-6.93	83.73
	0.00	0.36	0.00	0.18	0.00	0.53
3.30	-0.36	0.00	-0.18	0.00	-0.53	0.00
	9.94	59.62	27.65	46.50	-7.76	82.62
	19.26	113.56	52.83	88.57	-14.31	157.38
	27.60	161.82	75.36	126.21	-20.16	224.26
	34.95	204.40	95.23	159.42	-25.32	283.28
	41.33	241.31	112.46	188.21	-29.80	334.43
	46.72	272.54	127.04	212.56	-33.59	377.70
	51.14	298.09	138.96	232.49	-36.69	413.11
	54.57	317.96	148.24	247.99	-39.10	440.65
	57.02	332.15	154.86	259.06	-40.82	460.33
	58.49	340.67	158.84	265.70	-41.85	472.13
	59.20	340.67	159.20	265.70	-40.79	472.13
	57.73	332.15	155.22	259.06	-39.75	460.33
	55.28	317.96	148.59	247.99	-38.03	440.65
	51.85	298.09	139.32	232.49	-35.62	413.11
	47.43	272.54	127.39	212.56	-32.52	377.70
	42.04	241.31	112.82	188.21	-28.73	334.43
	35.66	204.40	95.59	159.42	-24.26	283.28
	28.31	161.82	75.71	126.21	-19.09	224.26
	19.97	113.56	53.18	88.57	-13.24	157.38
	10.65	59.62	28.01	46.50	-6.70	82.62
	0.00	0.36	0.00	0.18	0.00	0.53
3.35	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.33	59.26	27.77	46.34	-7.12	82.11
	19.99	112.88	53.06	88.27	-13.08	156.41
	28.64	160.86	75.68	125.78	-18.41	222.88
	36.27	203.19	95.65	158.88	-23.12	281.53
	42.88	239.88	112.95	187.57	-27.19	332.36
	48.47	270.92	127.59	211.84	-30.64	375.38
	53.05	296.32	139.57	231.70	-33.47	410.57
	56.61	316.08	148.88	247.15	-35.66	437.94
	59.15	330.19	155.54	258.18	-37.23	457.49
	60.68	338.65	159.53	264.80	-38.17	469.22
	61.39	338.65	159.89	264.80	-37.10	469.22
	59.86	330.19	155.89	258.18	-36.16	457.49

	57.32	316.08	149.24	247.15	-34.60	437.94
	53.76	296.32	139.92	231.70	-32.40	410.57
	49.18	270.92	127.94	211.84	-29.58	375.38
	43.59	239.88	113.30	187.57	-26.13	332.36
	36.98	203.19	96.00	158.88	-22.05	281.53
	29.35	160.86	76.04	125.78	-17.34	222.88
	20.70	112.88	53.41	88.27	-12.01	156.41
	11.04	59.26	28.13	46.34	-6.05	82.11
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.29	58.52	27.48	45.78	-6.90	81.07
	19.92	111.46	52.51	87.20	-12.66	154.42
	28.54	158.83	74.90	124.27	-17.81	220.05
	36.15	200.62	94.66	156.97	-22.36	277.96
	42.74	236.85	111.78	185.31	-26.30	328.15
	48.32	267.50	126.27	209.29	-29.64	370.62
	52.88	292.58	138.13	228.91	-32.37	405.36
	56.43	312.08	147.35	244.17	-34.49	432.38
	58.96	326.02	153.93	255.07	-36.01	451.69
	60.49	334.37	157.89	261.61	-36.91	463.27
	61.20	334.37	158.24	261.61	-35.85	463.27
	59.68	326.02	154.29	255.07	-34.94	451.69
	57.14	312.08	147.70	244.17	-33.42	432.38
	53.59	292.58	138.48	228.91	-31.30	405.36
	49.03	267.50	126.63	209.29	-28.57	370.62
	43.45	236.85	112.14	185.31	-25.24	328.15
	36.86	200.62	95.02	156.97	-21.30	277.96
	29.25	158.83	75.26	124.27	-16.75	220.05
	20.64	111.46	52.87	87.20	-11.59	154.42
	11.00	58.52	27.84	45.78	-5.83	81.07
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.26	57.79	27.20	45.24	-6.69	80.06
	19.86	110.07	51.98	86.17	-12.25	152.50
	28.45	156.86	74.14	122.79	-17.23	217.31
	36.04	198.13	93.70	155.11	-21.63	274.49
	42.61	233.91	110.65	183.11	-25.44	324.06
	48.17	264.18	124.99	206.81	-28.66	365.99
	52.72	288.94	136.73	226.20	-31.30	400.30
	56.25	308.21	145.86	241.28	-33.35	426.99
	58.78	321.97	152.38	252.05	-34.82	446.05
	60.30	330.22	156.29	258.51	-35.69	457.49
	61.01	330.22	156.64	258.51	-34.63	457.49
	59.49	321.97	152.73	252.05	-33.75	446.05
	56.96	308.21	146.21	241.28	-32.28	426.99

	53.43	288.94	137.09	226.20	-30.23	400.30
	48.88	264.18	125.35	206.81	-27.60	365.99
	43.32	233.91	111.01	183.11	-24.37	324.06
	36.75	198.13	94.06	155.11	-20.56	274.49
	29.17	156.86	74.50	122.79	-16.17	217.31
	20.57	110.07	52.33	86.17	-11.19	152.50
	10.97	57.79	27.56	45.24	-5.62	80.06
	0.00	0.36	0.00	0.18	0.00	0.53
3.50	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.26	57.12	26.97	44.75	-6.44	79.13
	19.87	108.80	51.53	85.24	-11.79	150.72
	28.47	155.04	73.51	121.47	-16.57	214.78
	36.06	195.84	92.90	153.43	-20.79	271.30
	42.63	231.20	109.71	181.14	-24.45	320.29
	48.19	261.12	123.93	204.58	-27.54	361.74
	52.74	285.60	135.56	223.76	-30.07	395.65
	56.28	304.64	144.61	238.67	-32.04	422.03
	58.81	318.24	151.07	249.33	-33.45	440.87
	60.33	326.40	154.95	255.72	-34.29	452.17
	61.04	326.40	155.31	255.72	-33.23	452.17
	59.52	318.24	151.43	249.33	-32.38	440.87
	57.00	304.64	144.97	238.67	-30.98	422.03
	53.46	285.60	135.92	223.76	-29.01	395.65
	48.90	261.12	124.28	204.58	-26.47	361.74
	43.34	231.20	110.06	181.14	-23.38	320.29
	36.77	195.84	93.26	153.43	-19.72	271.30
	29.18	155.04	73.86	121.47	-15.50	214.78
	20.58	108.80	51.89	85.24	-10.72	150.72
10.98	57.12	27.33	44.75	-5.37	79.13	
0.00	0.36	0.00	0.18	0.00	0.53	
3.55	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.23	56.43	26.71	44.24	-6.24	78.18
	19.81	107.49	51.03	84.27	-11.40	148.91
	28.39	153.18	72.79	120.08	-16.02	212.19
	35.95	193.49	92.00	151.68	-20.10	268.03
	42.50	228.43	108.64	179.06	-23.63	316.42
	48.05	257.99	122.72	202.24	-26.62	357.37
	52.59	282.17	134.24	221.20	-29.06	390.88
	56.12	300.99	143.20	235.94	-30.97	416.94
	58.64	314.42	149.60	246.48	-32.32	435.55
	60.15	322.48	153.45	252.80	-33.14	446.72
	60.86	322.48	153.80	252.80	-32.07	446.72
	59.35	314.42	149.96	246.48	-31.26	435.55
	56.83	300.99	143.56	235.94	-29.90	416.94
53.30	282.17	134.60	221.20	-28.00	390.88	

	48.76	257.99	123.08	202.24	-25.55	357.37
	43.22	228.43	108.99	179.06	-22.56	316.42
	36.66	193.49	92.35	151.68	-19.03	268.03
	29.10	153.18	73.15	120.08	-14.95	212.19
	20.52	107.49	51.39	84.27	-10.34	148.91
	10.94	56.43	27.06	44.24	-5.17	78.18
	0.00	0.36	0.00	0.18	0.00	0.53
3.60	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.20	55.77	26.45	43.74	-6.04	77.25
	19.76	106.22	50.54	83.32	-11.03	147.14
	28.30	151.37	72.10	118.73	-15.49	209.67
	35.85	191.20	91.12	149.97	-19.42	264.85
	42.38	225.73	107.60	177.05	-22.83	312.67
	47.91	254.94	121.55	199.96	-25.72	353.13
	52.44	278.84	132.96	218.71	-28.08	386.24
	55.96	297.43	141.84	233.29	-29.92	411.99
	58.47	310.71	148.18	243.71	-31.23	430.38
	59.98	318.67	151.98	249.96	-32.02	441.42
	60.69	318.67	152.34	249.96	-30.95	441.42
	59.18	310.71	148.53	243.71	-30.16	430.38
	56.67	297.43	142.19	233.29	-28.85	411.99
	53.15	278.84	133.32	218.71	-27.02	386.24
	48.63	254.94	121.90	199.96	-24.65	353.13
	43.09	225.73	107.96	177.05	-21.77	312.67
	36.56	191.20	91.47	149.97	-18.36	264.85
	29.02	151.37	72.45	118.73	-14.42	209.67
	20.47	106.22	50.90	83.32	-9.96	147.14
	10.91	55.77	26.81	43.74	-4.98	77.25
	0.00	0.36	0.00	0.18	0.00	0.53
3.65	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.17	55.12	26.20	43.26	-5.85	76.35
	19.70	104.99	50.07	82.40	-10.66	145.42
	28.23	149.61	71.42	117.42	-14.97	207.22
	35.75	188.98	90.26	148.31	-18.77	261.76
	42.27	223.10	106.59	175.09	-22.06	309.02
	47.78	251.98	120.41	197.75	-24.85	349.01
	52.29	275.60	131.72	216.29	-27.13	381.73
	55.80	293.97	140.51	230.71	-28.90	407.18
	58.31	307.10	146.79	241.01	-30.17	425.35
	59.82	314.97	150.56	247.19	-30.93	436.26
	60.53	314.97	150.91	247.19	-29.86	436.26
	59.02	307.10	147.14	241.01	-29.10	425.35
	56.52	293.97	140.86	230.71	-27.83	407.18
	53.01	275.60	132.07	216.29	-26.06	381.73
	48.49	251.98	120.77	197.75	-23.78	349.01

	42.98	223.10	106.95	175.09	-20.99	309.02
	36.46	188.98	90.62	148.31	-17.70	261.76
	28.94	149.61	71.78	117.42	-13.90	207.22
	20.41	104.99	50.42	82.40	-9.60	145.42
	10.89	55.12	26.56	43.26	-4.79	76.35
	0.00	0.36	0.00	0.18	0.00	0.53
3.70	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.15	54.49	25.96	42.79	-5.67	75.47
	19.65	103.79	49.61	81.50	-10.31	143.75
	28.15	147.90	70.76	116.14	-14.46	204.84
	35.65	186.82	89.43	146.70	-18.13	258.75
	42.15	220.55	105.61	173.19	-21.31	305.47
	47.65	249.09	119.30	195.60	-24.00	345.00
	52.15	272.45	130.50	213.94	-26.20	377.34
	55.65	290.61	139.22	228.20	-27.91	402.50
	58.15	303.58	145.44	238.39	-29.13	420.46
	59.65	311.37	149.17	244.50	-29.86	431.25
	60.37	311.37	149.53	244.50	-28.80	431.25
	58.87	303.58	145.79	238.39	-28.06	420.46
	56.37	290.61	139.57	228.20	-26.84	402.50
	52.86	272.45	130.86	213.94	-25.13	377.34
	48.36	249.09	119.66	195.60	-22.93	345.00
	42.86	220.55	105.97	173.19	-20.24	305.47
	36.36	186.82	89.79	146.70	-17.06	258.75
	28.86	147.90	71.12	116.14	-13.40	204.84
	20.36	103.79	49.96	81.50	-9.24	143.75
10.86	54.49	26.31	42.79	-4.60	75.47	
0.00	0.36	0.00	0.18	0.00	0.53	
3.75	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.12	53.88	25.72	42.33	-5.48	74.61
	19.60	102.62	49.16	80.63	-9.96	142.12
	28.08	146.23	70.12	114.90	-13.97	202.52
	35.56	184.72	88.62	145.13	-17.51	255.82
	42.04	218.07	104.66	171.34	-20.57	302.01
	47.53	246.29	118.22	193.51	-23.17	341.09
	52.02	269.38	129.32	211.65	-25.29	373.07
	55.51	287.33	137.96	225.76	-26.94	397.94
	58.00	300.16	144.12	235.84	-28.12	415.71
	59.50	307.86	147.82	241.89	-28.83	426.37
	60.21	307.86	148.18	241.89	-27.76	426.37
	58.71	300.16	144.48	235.84	-27.05	415.71
	56.22	287.33	138.31	225.76	-25.87	397.94
	52.73	269.38	129.68	211.65	-24.22	373.07
	48.24	246.29	118.58	193.51	-22.10	341.09
	42.75	218.07	105.01	171.34	-19.51	302.01

	36.27	184.72	88.98	145.13	-16.44	255.82
	28.79	146.23	70.48	114.90	-12.91	202.52
	20.31	102.62	49.51	80.63	-8.90	142.12
	10.83	53.88	26.08	42.33	-4.42	74.61
	0.00	0.36	0.00	0.18	0.00	0.53
3.80	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.09	53.28	25.49	41.88	-5.31	73.78
	19.55	101.48	48.72	79.78	-9.63	140.54
	28.00	144.61	69.50	113.69	-13.49	200.27
	35.47	182.67	87.84	143.60	-16.90	252.97
	41.93	215.65	103.73	169.53	-19.86	298.64
	47.41	243.56	117.18	191.47	-22.36	337.29
	51.88	266.39	128.18	209.42	-24.41	368.91
	55.37	284.15	136.73	223.38	-26.00	393.51
	57.86	296.83	142.85	233.36	-27.14	411.07
	59.35	304.44	146.51	239.34	-27.82	421.61
	60.06	304.44	146.87	239.34	-26.75	421.61
	58.57	296.83	143.20	233.36	-26.07	411.07
	56.08	284.15	137.09	223.38	-24.93	393.51
	52.60	266.39	128.53	209.42	-23.34	368.91
	48.12	243.56	117.53	191.47	-21.30	337.29
	42.65	215.65	104.08	169.53	-18.79	298.64
	36.18	182.67	88.19	143.60	-15.84	252.97
	28.71	144.61	69.86	113.69	-12.43	200.27
	20.26	101.48	49.07	79.78	-8.56	140.54
	10.80	53.28	25.85	41.88	-4.24	73.78
	0.00	0.36	0.00	0.18	0.00	0.53
3.85	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.07	52.70	25.27	41.45	-5.14	72.97
	19.50	100.37	48.29	78.95	-9.30	139.00
	27.93	143.03	68.89	112.51	-13.03	198.07
	35.38	180.67	87.07	142.12	-16.31	250.19
	41.83	213.29	102.82	167.78	-19.16	295.37
	47.29	240.89	116.15	189.49	-21.58	333.59
	51.76	263.48	127.06	207.25	-23.55	364.86
	55.23	281.04	135.54	221.07	-25.08	389.19
	57.71	293.59	141.60	230.94	-26.18	406.56
	59.20	301.12	145.24	236.86	-26.84	416.99
	59.91	301.12	145.59	236.86	-25.77	416.99
	58.42	293.59	141.96	230.94	-25.11	406.56
	55.94	281.04	135.90	221.07	-24.02	389.19
	52.47	263.48	127.42	207.25	-22.48	364.86
	48.00	240.89	116.51	189.49	-20.51	333.59
	42.54	213.29	103.18	167.78	-18.10	295.37
36.09	180.67	87.43	142.12	-15.25	250.19	

	28.64	143.03	69.25	112.51	-11.96	198.07
	20.21	100.37	48.65	78.95	-8.23	139.00
	10.78	52.70	25.63	41.45	-4.07	72.97
	0.00	0.36	0.00	0.18	0.00	0.53
3.90	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.49	52.58	25.50	41.47	-4.52	72.79
	20.30	100.14	48.73	79.00	-8.13	138.64
	29.08	142.70	69.52	112.57	-11.36	197.56
	36.82	180.26	87.86	142.20	-14.21	249.55
	43.54	212.81	103.75	167.87	-16.68	294.61
	49.22	240.35	117.20	189.60	-18.77	332.74
	53.86	262.88	128.21	207.37	-20.48	363.93
	57.48	280.40	136.76	221.20	-21.81	388.20
	60.06	292.92	142.88	231.07	-22.76	405.53
	61.61	300.43	146.55	237.00	-23.33	415.92
	62.32	300.43	146.90	237.00	-22.26	415.92
	60.77	292.92	143.23	231.07	-21.69	405.53
	58.19	280.40	137.12	221.20	-20.74	388.20
	54.58	262.88	128.56	207.37	-19.41	363.93
	49.93	240.35	117.56	189.60	-17.70	332.74
	44.25	212.81	104.11	167.87	-15.61	294.61
	37.54	180.26	88.21	142.20	-13.14	249.55
	29.79	142.70	69.87	112.57	-10.29	197.56
	21.01	100.14	49.09	79.00	-7.06	138.64
	11.20	52.58	25.85	41.47	-3.46	72.79
	0.00	0.36	0.00	0.18	0.00	0.53
	3.95	-0.36	0.00	-0.18	0.00	-0.53
10.46		52.02	25.29	41.06	-4.36	72.02
20.25		99.09	48.33	78.21	-7.82	137.18
29.01		141.20	68.94	111.45	-10.92	195.48
36.74		178.36	87.13	140.78	-13.65	246.92
43.44		210.57	102.89	166.20	-16.02	291.50
49.10		237.82	116.23	187.71	-18.02	329.22
53.74		260.11	127.14	205.31	-19.66	360.09
57.35		277.45	135.63	219.00	-20.94	384.09
59.92		289.84	141.69	228.77	-21.85	401.24
61.47		297.27	145.33	234.64	-22.39	411.53
62.18		297.27	145.69	234.64	-21.33	411.53
60.63		289.84	142.05	228.77	-20.78	401.24
58.06		277.45	135.99	219.00	-19.87	384.09
54.45		260.11	127.50	205.31	-18.60	360.09
49.81		237.82	116.59	187.71	-16.96	329.22
44.15		210.57	103.25	166.20	-14.95	291.50
37.45		178.36	87.48	140.78	-12.58	246.92
29.72	141.20	69.29	111.45	-9.85	195.48	

	20.96	99.09	48.68	78.21	-6.75	137.18
	11.17	52.02	25.64	41.06	-3.29	72.02
	0.00	0.36	0.00	0.18	0.00	0.53
4.00	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.44	51.48	25.08	40.66	-4.20	71.27
	20.21	98.06	47.93	77.45	-7.52	135.75
	28.95	139.74	68.38	110.36	-10.49	193.44
	36.66	176.51	86.42	139.41	-13.10	244.34
	43.34	208.38	102.05	164.58	-15.37	288.46
	48.99	235.35	115.28	185.87	-17.30	325.79
	53.62	257.42	126.11	203.30	-18.87	356.34
	57.22	274.58	134.53	216.85	-20.09	380.09
	59.79	286.84	140.54	226.53	-20.96	397.06
	61.33	294.19	144.15	232.34	-21.49	407.24
	62.04	294.19	144.50	232.34	-20.42	407.24
	60.50	286.84	140.89	226.53	-19.90	397.06
	57.93	274.58	134.88	216.85	-19.02	380.09
	54.33	257.42	126.46	203.30	-17.80	356.34
	49.70	235.35	115.64	185.87	-16.23	325.79
	44.05	208.38	102.41	164.58	-14.31	288.46
	37.37	176.51	86.77	139.41	-12.04	244.34
	29.66	139.74	68.73	110.36	-9.42	193.44
	20.92	98.06	48.29	77.45	-6.45	135.75
	11.15	51.48	25.43	40.66	-3.13	71.27
	0.00	0.36	0.00	0.18	0.00	0.53
	4.05	-0.36	0.00	-0.18	0.00	-0.53
10.42		50.96	24.88	40.27	-4.04	70.54
20.16		97.06	47.55	76.70	-7.22	134.35
28.88		138.31	67.83	109.30	-10.06	191.45
36.58		174.71	85.72	138.06	-12.57	241.84
43.24		206.26	101.23	162.99	-14.75	285.50
48.89		232.95	114.36	184.08	-16.59	322.45
53.50		254.79	125.10	201.34	-18.09	352.68
57.09		271.77	133.45	214.76	-19.26	376.19
59.66		283.91	139.41	224.35	-20.10	392.98
61.20		291.19	142.99	230.10	-20.60	403.06
61.91		291.19	143.35	230.10	-19.53	403.06
60.37		283.91	139.77	224.35	-19.03	392.98
57.80		271.77	133.80	214.76	-18.20	376.19
54.21		254.79	125.45	201.34	-17.03	352.68
49.60		232.95	114.71	184.08	-15.52	322.45
43.95		206.26	101.59	162.99	-13.68	285.50
37.29		174.71	86.08	138.06	-11.51	241.84
29.59		138.31	68.18	109.30	-9.00	191.45
20.87		97.06	47.90	76.70	-6.16	134.35

	11.13	50.96	25.23	40.27	-2.98	70.54
	0.00	0.36	0.00	0.18	0.00	0.53
4.10	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.84	50.89	25.12	40.33	-3.45	70.42
	20.96	96.93	48.02	76.82	-6.09	134.14
	30.03	138.13	68.50	109.47	-8.45	191.14
	38.02	174.48	86.57	138.27	-10.53	241.45
	44.95	205.98	102.24	163.24	-12.34	285.04
	50.81	232.64	115.49	184.36	-13.86	321.93
	55.61	254.45	126.33	201.65	-15.11	352.11
	59.34	271.41	134.77	215.09	-16.08	375.58
	62.01	283.52	140.79	224.69	-16.78	392.35
	63.61	290.79	144.41	230.46	-17.20	402.41
	64.32	290.79	144.76	230.46	-16.13	402.41
	62.72	283.52	141.15	224.69	-15.71	392.35
	60.05	271.41	135.12	215.09	-15.02	375.58
	56.32	254.45	126.69	201.65	-14.05	352.11
	51.52	232.64	115.85	184.36	-12.80	321.93
	45.66	205.98	102.59	163.24	-11.27	285.04
	38.73	174.48	86.93	138.27	-9.46	241.45
	30.74	138.13	68.86	109.47	-7.38	191.14
	21.68	96.93	48.37	76.82	-5.02	134.14
11.55	50.89	25.48	40.33	-2.38	70.42	
0.00	0.36	0.00	0.18	0.00	0.53	
4.15	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.82	50.39	24.93	39.96	-3.30	69.72
	20.92	95.98	47.65	76.11	-5.81	132.81
	29.96	136.77	67.98	108.45	-8.05	189.25
	37.94	172.76	85.91	136.99	-10.03	239.06
	44.86	203.95	101.46	161.73	-11.74	282.22
	50.71	230.35	114.61	182.66	-13.19	318.74
	55.50	251.94	125.37	199.78	-14.38	348.62
	59.22	268.74	133.74	213.10	-15.30	371.87
	61.88	280.73	139.72	222.61	-15.96	388.47
	63.48	287.93	143.31	228.32	-16.35	398.43
	64.19	287.93	143.66	228.32	-15.29	398.43
	62.59	280.73	140.07	222.61	-14.89	388.47
	59.93	268.74	134.10	213.10	-14.23	371.87
	56.21	251.94	125.73	199.78	-13.31	348.62
	51.42	230.35	114.96	182.66	-12.12	318.74
	45.57	203.95	101.81	161.73	-10.67	282.22
	38.65	172.76	86.27	136.99	-8.96	239.06
	30.68	136.77	68.33	108.45	-6.98	189.25
	21.63	95.98	48.01	76.11	-4.74	132.81
11.53	50.39	25.29	39.96	-2.24	69.72	

	0.00	0.36	0.00	0.18	0.00	0.53
4.20	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.79	49.90	24.74	39.59	-3.16	69.04
	20.88	95.05	47.29	75.41	-5.53	131.51
	29.90	135.44	67.47	107.46	-7.66	187.41
	37.87	171.08	85.27	135.74	-9.53	236.72
	44.77	201.97	100.70	160.25	-11.16	279.47
	50.61	228.11	113.75	180.99	-12.53	315.63
	55.39	249.50	124.43	197.96	-13.66	345.22
	59.10	266.13	132.74	211.15	-14.53	368.24
	61.76	278.01	138.67	220.58	-15.16	384.68
	63.35	285.14	142.23	226.24	-15.53	394.54
	64.06	285.14	142.59	226.24	-14.47	394.54
	62.47	278.01	139.03	220.58	-14.09	384.68
	59.81	266.13	133.09	211.15	-13.47	368.24
	56.10	249.50	124.79	197.96	-12.59	345.22
	51.32	228.11	114.11	180.99	-11.47	315.63
	45.48	201.97	101.05	160.25	-10.09	279.47
	38.58	171.08	85.62	135.74	-8.47	236.72
	30.62	135.44	67.82	107.46	-6.59	187.41
	21.59	95.05	47.65	75.41	-4.47	131.51
11.50	49.90	25.10	39.59	-2.09	69.04	
0.00	0.36	0.00	0.18	0.00	0.53	
4.25	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.81	49.46	24.60	39.27	-2.98	68.43
	20.91	94.21	47.01	74.80	-5.19	130.34
	29.95	134.24	67.07	106.60	-7.18	185.74
	37.92	169.57	84.77	134.65	-8.92	234.62
	44.83	200.19	100.10	158.96	-10.44	276.98
	50.68	226.10	113.08	179.53	-11.72	312.82
	55.46	247.29	123.70	196.36	-12.77	342.15
	59.19	263.78	131.96	209.45	-13.59	364.96
	61.84	275.56	137.85	218.80	-14.17	381.25
	63.44	282.62	141.39	224.41	-14.52	391.03
	64.15	282.62	141.75	224.41	-13.45	391.03
	62.55	275.56	138.21	218.80	-13.10	381.25
	59.90	263.78	132.31	209.45	-12.52	364.96
	56.17	247.29	124.05	196.36	-11.70	342.15
	51.39	226.10	113.43	179.53	-10.65	312.82
	45.54	200.19	100.46	158.96	-9.37	276.98
	38.63	169.57	85.12	134.65	-7.86	234.62
	30.66	134.24	67.42	106.60	-6.11	185.74
	21.62	94.21	47.37	74.80	-4.13	130.34
11.52	49.46	24.95	39.27	-1.91	68.43	
0.00	0.36	0.00	0.18	0.00	0.53	

4.30	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.79	48.99	24.42	38.92	-2.84	67.78
	20.87	93.32	46.67	74.14	-4.93	129.11
	29.89	132.98	66.58	105.65	-6.80	183.98
	37.85	167.97	84.15	133.45	-8.45	232.39
	44.75	198.30	99.38	157.55	-9.88	274.35
	50.58	223.97	112.26	177.94	-11.09	309.86
	55.36	244.96	122.80	194.62	-12.08	338.91
	59.07	261.29	131.00	207.60	-12.85	361.50
	61.73	272.96	136.86	216.86	-13.40	377.64
	63.32	279.96	140.37	222.42	-13.73	387.32
	64.03	279.96	140.73	222.42	-12.67	387.32
	62.44	272.96	137.21	216.86	-12.34	377.64
	59.78	261.29	131.36	207.60	-11.79	361.50
	56.07	244.96	123.16	194.62	-11.02	338.91
	51.29	223.97	112.62	177.94	-10.03	309.86
	45.46	198.30	99.73	157.55	-8.82	274.35
	38.56	167.97	84.51	133.45	-7.39	232.39
	30.60	132.98	66.94	105.65	-5.74	183.98
	21.58	93.32	47.03	74.14	-3.87	129.11
11.50	48.99	24.77	38.92	-1.78	67.78	
0.00	0.36	0.00	0.18	0.00	0.53	
4.35	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.77	48.54	24.24	38.58	-2.71	67.15
	20.83	92.45	46.34	73.49	-4.68	127.90
	29.83	131.74	66.11	104.73	-6.44	182.26
	37.78	166.41	83.55	132.29	-7.99	230.22
	44.66	196.46	98.67	156.18	-9.34	271.79
	50.49	221.88	111.46	176.39	-10.48	306.96
	55.26	242.68	121.93	192.92	-11.41	335.74
	58.96	258.86	130.07	205.78	-12.14	358.12
	61.61	270.42	135.88	214.97	-12.66	374.11
	63.20	277.35	139.37	220.48	-12.97	383.70
	63.91	277.35	139.72	220.48	-11.90	383.70
	62.32	270.42	136.24	214.97	-11.59	374.11
	59.68	258.86	130.42	205.78	-11.07	358.12
	55.97	242.68	122.28	192.92	-10.35	335.74
	51.20	221.88	111.82	176.39	-9.41	306.96
	45.38	196.46	99.02	156.18	-8.27	271.79
	38.49	166.41	83.91	132.29	-6.93	230.22
	30.55	131.74	66.46	104.73	-5.37	182.26
	21.54	92.45	46.69	73.49	-3.61	127.90
11.48	48.54	24.60	38.58	-1.64	67.15	
0.00	0.36	0.00	0.18	0.00	0.53	
4.40	-0.36	0.00	-0.18	0.00	-0.53	0.00

	10.75	48.09	24.07	38.25	-2.58	66.53
	20.79	91.60	46.01	72.86	-4.43	126.72
	29.78	130.54	65.64	103.83	-6.08	180.58
	37.71	164.89	82.96	131.15	-7.54	228.10
	44.58	194.66	97.98	154.83	-8.81	269.28
	50.40	219.85	110.68	174.87	-9.88	304.13
	55.16	240.46	121.07	191.26	-10.76	332.64
	58.86	256.49	129.15	204.01	-11.44	354.82
	61.50	267.94	134.93	213.12	-11.92	370.66
	63.09	274.81	138.39	218.59	-12.22	380.16
	63.80	274.81	138.75	218.59	-11.15	380.16
	62.21	267.94	135.28	213.12	-10.86	370.66
	59.57	256.49	129.51	204.01	-10.37	354.82
	55.87	240.46	121.43	191.26	-9.69	332.64
	51.11	219.85	111.03	174.87	-8.81	304.13
	45.29	194.66	98.33	154.83	-7.74	269.28
	38.42	164.89	83.32	131.15	-6.48	228.10
	30.49	130.54	66.00	103.83	-5.02	180.58
	21.50	91.60	46.37	72.86	-3.36	126.72
	11.46	48.09	24.43	38.25	-1.51	66.53
	0.00	0.36	0.00	0.18	0.00	0.53
	-0.36	0.00	-0.18	0.00	-0.53	0.00
4.45	10.73	47.66	23.90	37.93	-2.45	65.92
	20.76	90.78	45.69	72.24	-4.18	125.57
	29.73	129.35	65.19	102.95	-5.73	178.93
	37.64	163.40	82.39	130.04	-7.10	226.02
	44.51	192.90	97.30	153.52	-8.29	266.83
	50.31	217.86	109.91	173.39	-9.29	301.36
	55.06	238.28	120.24	189.64	-10.11	329.62
	58.76	254.17	128.26	202.28	-10.75	351.59
	61.39	265.52	134.00	211.31	-11.21	367.29
	62.98	272.33	137.44	216.73	-11.48	376.70
	63.69	272.33	137.79	216.73	-10.42	376.70
	62.11	265.52	134.35	211.31	-10.14	367.29
	59.47	254.17	128.62	202.28	-9.69	351.59
	55.77	238.28	120.59	189.64	-9.05	329.62
	51.02	217.86	110.27	173.39	-8.23	301.36
	45.22	192.90	97.66	153.52	-7.22	266.83
	38.36	163.40	82.75	130.04	-6.04	226.02
	30.44	129.35	65.54	102.95	-4.67	178.93
	21.47	90.78	46.05	72.24	-3.12	125.57
	11.44	47.66	24.26	37.93	-1.38	65.92
	0.00	0.36	0.00	0.18	0.00	0.53
4.50	-0.36	0.00	-0.18	0.00	-0.53	0.00
	10.71	47.23	23.74	37.61	-2.32	65.33

20.72	89.97	45.38	71.64	-3.94	124.44
29.68	128.20	64.75	102.09	-5.39	177.33
37.58	161.94	81.83	128.95	-6.67	223.99
44.43	191.18	96.64	152.23	-7.78	264.44
50.22	215.92	109.17	171.94	-8.72	298.66
54.97	236.16	119.42	188.05	-9.49	326.66
58.65	251.90	127.39	200.59	-10.08	348.43
61.29	263.15	133.09	209.55	-10.51	363.99
62.87	269.90	136.50	214.92	-10.77	373.32
63.58	269.90	136.86	214.92	-9.70	373.32
62.00	263.15	133.44	209.55	-9.44	363.99
59.37	251.90	127.75	200.59	-9.02	348.43
55.68	236.16	119.77	188.05	-8.42	326.66
50.94	215.92	109.52	171.94	-7.65	298.66
45.14	191.18	96.99	152.23	-6.71	264.44
38.29	161.94	82.19	128.95	-5.61	223.99
30.39	128.20	65.10	102.09	-4.33	177.33
21.43	89.97	45.74	71.64	-2.88	124.44
11.42	47.23	24.10	37.61	-1.26	65.33
0.00	0.36	0.00	0.18	0.00	0.53

En la Tabla 31 se muestran las combinaciones de esfuerzos para los montantes en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 31. Combinación de esfuerzos de los montantes - 22 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)
0.50	0.82	6.60	2.87	5.06	-1.23	9.16
	-125.35	-15.85	-96.15	-54.73	-173.98	23.04
	-112.16	-14.21	-86.03	-48.98	-155.67	20.57
	-98.96	-12.57	-75.91	-43.24	-137.36	18.10
	-85.77	-10.93	-65.79	-37.49	-119.04	15.64
	-72.57	-9.29	-55.67	-31.74	-100.73	13.17
	-59.38	-7.65	-45.55	-25.99	-82.41	10.70
	-46.18	-6.01	-35.42	-20.25	-64.10	8.24
	-32.99	-4.37	-25.30	-14.50	-45.79	5.77
	-19.79	-2.73	-15.18	-8.75	-27.47	3.30
	-6.60	-1.09	-5.06	-3.01	-9.16	0.84
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.60	-0.56	-5.06	-2.74	-9.16	1.63
	-19.79	-2.20	-15.18	-8.49	-27.47	4.10
	-32.99	-3.84	-25.30	-14.24	-45.79	6.56
	-46.18	-5.48	-35.42	-19.98	-64.10	9.03

	-59.38	-7.12	-45.55	-25.73	-82.41	11.50
	-72.57	-8.76	-55.67	-31.48	-100.73	13.96
	-85.77	-10.40	-65.79	-37.22	-119.04	16.43
	-98.96	-12.04	-75.91	-42.97	-137.36	18.90
	-112.16	-13.68	-86.03	-48.72	-155.67	21.36
	-125.35	-15.32	-96.15	-54.46	-173.98	23.83
	0.82	6.60	2.87	5.06	-1.23	9.16
	0.71	6.49	2.77	4.95	-1.34	9.01
0.55	-123.34	-13.86	-94.14	-52.73	-171.27	25.01
	-110.36	-12.43	-84.23	-47.20	-153.24	22.33
	-97.37	-11.00	-74.32	-41.66	-135.21	19.65
	-84.39	-9.58	-64.41	-36.12	-117.18	16.97
	-71.41	-8.15	-54.50	-30.59	-99.16	14.29
	-58.42	-6.72	-44.59	-25.05	-81.13	11.62
	-45.44	-5.29	-34.68	-19.52	-63.10	8.94
	-32.46	-3.86	-24.77	-13.98	-45.07	6.26
	-19.47	-2.43	-14.86	-8.45	-27.04	3.58
	-6.49	-1.01	-4.95	-2.91	-9.01	0.90
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.49	-0.42	-4.95	-2.62	-9.01	1.78
	-19.47	-1.85	-14.86	-8.16	-27.04	4.46
	-32.46	-3.28	-24.77	-13.69	-45.07	7.13
	-45.44	-4.71	-34.68	-19.23	-63.10	9.81
	-58.42	-6.14	-44.59	-24.76	-81.13	12.49
	-71.41	-7.56	-54.50	-30.30	-99.16	15.17
	-84.39	-8.99	-64.41	-35.83	-117.18	17.85
	-97.37	-10.42	-74.32	-41.37	-135.21	20.53
	-110.36	-11.85	-84.23	-46.90	-153.24	23.21
	-123.34	-13.28	-94.14	-52.44	-171.27	25.88
	0.71	6.49	2.77	4.95	-1.34	9.01
	0.65	6.43	2.70	4.89	-1.40	8.93
0.60	-122.11	-12.66	-92.91	-51.52	-169.61	26.19
	-109.26	-11.36	-83.13	-46.11	-151.76	23.39
	-96.41	-10.06	-73.35	-40.71	-133.91	20.58
	-83.55	-8.76	-63.57	-35.30	-116.05	17.77
	-70.70	-7.46	-53.79	-29.89	-98.20	14.96
	-57.84	-6.17	-44.01	-24.49	-80.34	12.16
	-44.99	-4.87	-34.23	-19.08	-62.49	9.35
	-32.14	-3.57	-24.45	-13.67	-44.64	6.54
	-19.28	-2.27	-14.67	-8.27	-26.78	3.73
	-6.43	-0.97	-4.89	-2.86	-8.93	0.93
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.43	-0.33	-4.89	-2.54	-8.93	1.88
	-19.28	-1.63	-14.67	-7.95	-26.78	4.69
	-32.14	-2.93	-24.45	-13.36	-44.64	7.50

	-44.99	-4.23	-34.23	-18.76	-62.49	10.30
	-57.84	-5.53	-44.01	-24.17	-80.34	13.11
	-70.70	-6.83	-53.79	-29.58	-98.20	15.92
	-83.55	-8.13	-63.57	-34.98	-116.05	18.73
	-96.41	-9.43	-73.35	-40.39	-133.91	21.53
	-109.26	-10.73	-83.13	-45.79	-151.76	24.34
	-122.11	-12.03	-92.91	-51.20	-169.61	27.15
	0.65	6.43	2.70	4.89	-1.40	8.93
	0.62	6.40	2.67	4.86	-1.43	8.89
	-121.53	-12.10	-92.33	-50.94	-168.82	26.74
	-108.73	-10.86	-82.61	-45.60	-151.05	23.87
	-95.94	-9.63	-72.89	-40.26	-133.28	21.00
	-83.15	-8.39	-63.17	-34.91	-115.51	18.13
	-70.36	-7.15	-53.45	-29.57	-97.74	15.26
	-57.56	-5.91	-43.73	-24.22	-79.97	12.40
	-44.77	-4.68	-34.02	-18.88	-62.20	9.53
	-31.98	-3.44	-24.30	-13.53	-44.43	6.66
	-19.19	-2.20	-14.58	-8.19	-26.66	3.79
	-6.40	-0.96	-4.86	-2.84	-8.89	0.92
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.40	-0.27	-4.86	-2.50	-8.89	1.95
	-19.19	-1.51	-14.58	-7.84	-26.66	4.82
	-31.98	-2.75	-24.30	-13.19	-44.43	7.69
	-44.77	-3.99	-34.02	-18.53	-62.20	10.56
	-57.56	-5.22	-43.73	-23.88	-79.97	13.43
	-70.36	-6.46	-53.45	-29.22	-97.74	16.30
	-83.15	-7.70	-63.17	-34.57	-115.51	19.17
	-95.94	-8.94	-72.89	-39.91	-133.28	22.04
	-108.73	-10.17	-82.61	-45.26	-151.05	24.91
	-121.53	-11.41	-92.33	-50.60	-168.82	27.78
	0.62	6.40	2.67	4.86	-1.43	8.89
	0.59	6.37	2.64	4.83	-1.47	8.84
	-120.94	-11.54	-91.74	-50.37	-168.03	27.29
	-108.21	-10.37	-82.09	-45.09	-150.34	24.36
	-95.48	-9.19	-72.43	-39.81	-132.66	21.42
	-82.75	-8.02	-62.77	-34.52	-114.97	18.49
	-70.02	-6.84	-53.11	-29.24	-97.28	15.56
	-57.29	-5.66	-43.46	-23.96	-79.59	12.63
	-44.56	-4.49	-33.80	-18.68	-61.91	9.70
	-31.83	-3.31	-24.14	-13.39	-44.22	6.77
	-19.10	-2.14	-14.49	-8.11	-26.53	3.84
	-6.37	-0.96	-4.83	-2.83	-8.84	0.91
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.37	-0.22	-4.83	-2.46	-8.84	2.02
	-19.10	-1.39	-14.49	-7.74	-26.53	4.95

	-31.83	-2.57	-24.14	-13.02	-44.22	7.88
	-44.56	-3.75	-33.80	-18.30	-61.91	10.81
	-57.29	-4.92	-43.46	-23.59	-79.59	13.75
	-70.02	-6.10	-53.11	-28.87	-97.28	16.68
	-82.75	-7.27	-62.77	-34.15	-114.97	19.61
	-95.48	-8.45	-72.43	-39.44	-132.66	22.54
	-108.21	-9.63	-82.09	-44.72	-150.34	25.47
	-120.94	-10.80	-91.74	-50.00	-168.03	28.40
	0.59	6.37	2.64	4.83	-1.47	8.84
0.75	0.60	6.37	2.65	4.84	-1.46	8.86
	-121.12	-11.75	-91.92	-50.57	-168.28	27.07
	-108.37	-10.56	-82.25	-45.27	-150.56	24.15
	-95.62	-9.36	-72.57	-39.96	-132.85	21.24
	-82.87	-8.17	-62.89	-34.66	-115.14	18.33
	-70.12	-6.97	-53.22	-29.36	-97.42	15.42
	-57.37	-5.78	-43.54	-24.06	-79.71	12.51
	-44.62	-4.58	-33.87	-18.76	-62.00	9.60
	-31.87	-3.39	-24.19	-13.45	-44.28	6.68
	-19.12	-2.19	-14.51	-8.15	-26.57	3.77
	-6.37	-1.00	-4.84	-2.85	-8.86	0.86
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.37	-0.20	-4.84	-2.45	-8.86	2.05
	-19.12	-1.40	-14.51	-7.75	-26.57	4.96
	-31.87	-2.59	-24.19	-13.06	-44.28	7.88
	-44.62	-3.79	-33.87	-18.36	-62.00	10.79
	-57.37	-4.98	-43.54	-23.66	-79.71	13.70
	-70.12	-6.18	-53.22	-28.96	-97.42	16.61
	-82.87	-7.37	-62.89	-34.26	-115.14	19.52
	-95.62	-8.57	-72.57	-39.57	-132.85	22.43
	-108.37	-9.76	-82.25	-44.87	-150.56	25.35
	-121.12	-10.96	-91.92	-50.17	-168.28	28.26
	0.60	6.37	2.65	4.84	-1.46	8.86
0.80	0.57	6.34	2.62	4.81	-1.49	8.82
	-120.54	-11.20	-91.35	-50.00	-167.50	27.60
	-107.86	-10.06	-81.73	-44.76	-149.86	24.63
	-95.17	-8.93	-72.11	-39.52	-132.23	21.66
	-82.48	-7.80	-62.50	-34.28	-114.60	18.69
	-69.79	-6.66	-52.88	-29.04	-96.97	15.71
	-57.10	-5.53	-43.27	-23.80	-79.34	12.74
	-44.41	-4.39	-33.65	-18.56	-61.71	9.77
	-31.72	-3.26	-24.04	-13.31	-44.08	6.80
	-19.03	-2.13	-14.42	-8.07	-26.45	3.82
	-6.34	-0.99	-4.81	-2.83	-8.82	0.85
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.34	-0.14	-4.81	-2.41	-8.82	2.12

	-19.03	-1.28	-14.42	-7.65	-26.45	5.10
	-31.72	-2.41	-24.04	-12.89	-44.08	8.07
	-44.41	-3.55	-33.65	-18.13	-61.71	11.04
	-57.10	-4.68	-43.27	-23.37	-79.34	14.01
	-69.79	-5.81	-52.88	-28.61	-96.97	16.99
	-82.48	-6.95	-62.50	-33.86	-114.60	19.96
	-95.17	-8.08	-72.11	-39.10	-132.23	22.93
	-107.86	-9.22	-81.73	-44.34	-149.86	25.90
	-120.54	-10.35	-91.35	-49.58	-167.50	28.88
	0.57	6.34	2.62	4.81	-1.49	8.82
	0.57	6.35	2.63	4.81	-1.48	8.82
	-120.67	-11.35	-91.47	-50.14	-167.66	27.44
	-107.97	-10.20	-81.84	-44.88	-150.01	24.48
	-95.26	-9.05	-72.21	-39.63	-132.36	21.52
	-82.56	-7.91	-62.58	-34.38	-114.72	18.56
	-69.86	-6.76	-52.96	-29.12	-97.07	15.60
	-57.16	-5.61	-43.33	-23.87	-79.42	12.64
	-44.46	-4.47	-33.70	-18.61	-61.77	9.68
	-31.75	-3.32	-24.07	-13.36	-44.12	6.72
	-19.05	-2.17	-14.44	-8.11	-26.47	3.76
	-6.35	-1.02	-4.81	-2.85	-8.82	0.80
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.35	-0.12	-4.81	-2.40	-8.82	2.16
	-19.05	-1.27	-14.44	-7.66	-26.47	5.12
	-31.75	-2.42	-24.07	-12.91	-44.12	8.08
	-44.46	-3.56	-33.70	-18.16	-61.77	11.03
	-57.16	-4.71	-43.33	-23.42	-79.42	13.99
	-69.86	-5.86	-52.96	-28.67	-97.07	16.95
	-82.56	-7.01	-62.58	-33.93	-114.72	19.91
	-95.26	-8.15	-72.21	-39.18	-132.36	22.87
	-107.97	-9.30	-81.84	-44.43	-150.01	25.83
	-120.67	-10.45	-91.47	-49.69	-167.66	28.79
	0.57	6.35	2.63	4.81	-1.48	8.82
	0.55	6.32	2.60	4.79	-1.51	8.79
	-120.16	-10.87	-90.96	-49.64	-166.98	27.91
	-107.51	-9.77	-81.38	-44.44	-149.40	24.90
	-94.86	-8.68	-71.81	-39.24	-131.82	21.88
	-82.21	-7.59	-62.24	-34.04	-114.25	18.87
	-69.57	-6.49	-52.66	-28.84	-96.67	15.86
	-56.92	-5.40	-43.09	-23.64	-79.09	12.84
	-44.27	-4.30	-33.51	-18.44	-61.52	9.83
	-31.62	-3.21	-23.94	-13.24	-43.94	6.82
	-18.97	-2.12	-14.36	-8.04	-26.36	3.80
	-6.32	-1.02	-4.79	-2.84	-8.79	0.79
	0.00	0.00	0.00	0.00	0.00	0.00

	-6.32	-0.07	-4.79	-2.36	-8.79	2.22
	-18.97	-1.16	-14.36	-7.56	-26.36	5.24
	-31.62	-2.26	-23.94	-12.76	-43.94	8.25
	-44.27	-3.35	-33.51	-17.96	-61.52	11.26
	-56.92	-4.44	-43.09	-23.16	-79.09	14.28
	-69.57	-5.54	-52.66	-28.36	-96.67	17.29
	-82.21	-6.63	-62.24	-33.56	-114.25	20.30
	-94.86	-7.72	-71.81	-38.77	-131.82	23.32
	-107.51	-8.82	-81.38	-43.97	-149.40	26.33
	-120.16	-9.91	-90.96	-49.17	-166.98	29.34
	0.55	6.32	2.60	4.79	-1.51	8.79
	0.56	6.33	2.61	4.80	-1.50	8.80
	-120.35	-11.08	-91.15	-49.85	-167.23	27.68
	-107.68	-9.97	-81.56	-44.63	-149.63	24.69
	-95.01	-8.86	-71.96	-39.41	-132.03	21.69
	-82.35	-7.74	-62.37	-34.19	-114.42	18.70
	-69.68	-6.63	-52.77	-28.97	-96.82	15.71
	-57.01	-5.52	-43.18	-23.74	-79.22	12.71
	-44.34	-4.40	-33.58	-18.52	-61.61	9.72
	-31.67	-3.29	-23.99	-13.30	-44.01	6.73
	-19.00	-2.17	-14.39	-8.08	-26.41	3.73
	-6.33	-1.06	-4.80	-2.86	-8.80	0.74
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.33	-0.05	-4.80	-2.36	-8.80	2.25
	-19.00	-1.17	-14.39	-7.58	-26.41	5.24
	-31.67	-2.28	-23.99	-12.80	-44.01	8.24
	-44.34	-3.39	-33.58	-18.02	-61.61	11.23
	-57.01	-4.51	-43.18	-23.24	-79.22	14.22
	-69.68	-5.62	-52.77	-28.46	-96.82	17.22
	-82.35	-6.74	-62.37	-33.68	-114.42	20.21
	-95.01	-7.85	-71.96	-38.90	-132.03	23.20
	-107.68	-8.96	-81.56	-44.12	-149.63	26.20
	-120.35	-10.08	-91.15	-49.34	-167.23	29.19
	0.56	6.33	2.61	4.80	-1.50	8.80
	0.56	6.34	2.61	4.80	-1.49	8.81
	-120.42	-11.18	-91.22	-49.93	-167.32	27.57
	-107.74	-10.06	-81.62	-44.70	-149.71	24.59
	-95.07	-8.94	-72.01	-39.47	-132.10	21.60
	-82.39	-7.82	-62.41	-34.25	-114.49	18.61
	-69.72	-6.69	-52.81	-29.02	-96.87	15.63
	-57.04	-5.57	-43.21	-23.79	-79.26	12.64
	-44.36	-4.45	-33.61	-18.56	-61.65	9.66
	-31.69	-3.33	-24.00	-13.33	-44.03	6.67
	-19.01	-2.21	-14.40	-8.11	-26.42	3.68
	-6.34	-1.09	-4.80	-2.88	-8.81	0.70

	0.00	0.00	0.00	0.00	0.00	0.00
	-6.34	-0.03	-4.80	-2.35	-8.81	2.29
	-19.01	-1.15	-14.40	-7.58	-26.42	5.27
	-31.69	-2.27	-24.00	-12.80	-44.03	8.26
	-44.36	-3.39	-33.61	-18.03	-61.65	11.25
	-57.04	-4.51	-43.21	-23.26	-79.26	14.23
	-69.72	-5.63	-52.81	-28.49	-96.87	17.22
	-82.39	-6.76	-62.41	-33.72	-114.49	20.20
	-95.07	-7.88	-72.01	-38.94	-132.10	23.19
	-107.74	-9.00	-81.62	-44.17	-149.71	26.18
	-120.42	-10.12	-91.22	-49.40	-167.32	29.16
	0.56	6.34	2.61	4.80	-1.49	8.81
	0.57	6.35	2.62	4.81	-1.48	8.82
	-120.61	-11.40	-91.41	-50.14	-167.59	27.34
	-107.92	-10.26	-81.79	-44.89	-149.95	24.37
	-95.22	-9.12	-72.17	-39.64	-132.31	21.41
	-82.53	-7.98	-62.55	-34.39	-114.67	18.44
	-69.83	-6.83	-52.92	-29.14	-97.03	15.47
	-57.13	-5.69	-43.30	-23.90	-79.38	12.51
	-44.44	-4.55	-33.68	-18.65	-61.74	9.54
	-31.74	-3.41	-24.06	-13.40	-44.10	6.58
	-19.04	-2.27	-14.43	-8.15	-26.46	3.61
	-6.35	-1.13	-4.81	-2.90	-8.82	0.65
1.05	0.00	0.00	0.00	0.00	0.00	0.00
	-6.35	-0.01	-4.81	-2.35	-8.82	2.32
	-19.04	-1.16	-14.43	-7.59	-26.46	5.28
	-31.74	-2.30	-24.06	-12.84	-44.10	8.25
	-44.44	-3.44	-33.68	-18.09	-61.74	11.21
	-57.13	-4.58	-43.30	-23.34	-79.38	14.18
	-69.83	-5.72	-52.92	-28.59	-97.03	17.14
	-82.53	-6.86	-62.55	-33.84	-114.67	20.11
	-95.22	-8.00	-72.17	-39.08	-132.31	23.08
	-107.92	-9.15	-81.79	-44.33	-149.95	26.04
	-120.61	-10.29	-91.41	-49.58	-167.59	29.01
	0.57	6.35	2.62	4.81	-1.48	8.82
	0.55	6.33	2.60	4.79	-1.51	8.79
	-120.18	-10.99	-90.98	-49.72	-167.00	27.73
	-107.53	-9.90	-81.40	-44.51	-149.42	24.72
	-94.88	-8.80	-71.82	-39.31	-131.84	21.71
	-82.23	-7.70	-62.25	-34.11	-114.26	18.70
	-69.58	-6.61	-52.67	-28.91	-96.68	15.69
	-56.93	-5.51	-43.09	-23.70	-79.11	12.68
	-44.28	-4.42	-33.52	-18.50	-61.53	9.67
	-31.63	-3.32	-23.94	-13.30	-43.95	6.65
	-18.98	-2.23	-14.36	-8.10	-26.37	3.64
1.10						

	-6.33	-1.13	-4.79	-2.89	-8.79	0.63
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.33	0.04	-4.79	-2.31	-8.79	2.38
	-18.98	-1.06	-14.36	-7.51	-26.37	5.39
	-31.63	-2.16	-23.94	-12.71	-43.95	8.40
	-44.28	-3.25	-33.52	-17.92	-61.53	11.41
	-56.93	-4.35	-43.09	-23.12	-79.11	14.43
	-69.58	-5.44	-52.67	-28.32	-96.68	17.44
	-82.23	-6.54	-62.25	-33.52	-114.26	20.45
	-94.88	-7.63	-71.82	-38.73	-131.84	23.46
	-107.53	-8.73	-81.40	-43.93	-149.42	26.47
	-120.18	-9.83	-90.98	-49.13	-167.00	29.48
	0.55	6.33	2.60	4.79	-1.51	8.79
	0.56	6.34	2.61	4.80	-1.50	8.80
	-120.38	-11.22	-91.18	-49.93	-167.27	27.49
	-107.71	-10.10	-81.58	-44.71	-149.66	24.50
	-95.04	-8.98	-71.98	-39.48	-132.06	21.51
	-82.36	-7.87	-62.39	-34.26	-114.45	18.52
	-69.69	-6.75	-52.79	-29.03	-96.84	15.53
	-57.02	-5.63	-43.19	-23.81	-79.23	12.54
	-44.35	-4.52	-33.59	-18.59	-61.63	9.55
	-31.68	-3.40	-23.99	-13.36	-44.02	6.56
	-19.01	-2.28	-14.40	-8.14	-26.41	3.57
	-6.34	-1.17	-4.80	-2.92	-8.80	0.58
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.34	0.05	-4.80	-2.31	-8.80	2.41
	-19.01	-1.07	-14.40	-7.53	-26.41	5.40
	-31.68	-2.18	-23.99	-12.75	-44.02	8.39
	-44.35	-3.30	-33.59	-17.98	-61.63	11.38
	-57.02	-4.42	-43.19	-23.20	-79.23	14.37
	-69.69	-5.53	-52.79	-28.43	-96.84	17.36
	-82.36	-6.65	-62.39	-33.65	-114.45	20.35
	-95.04	-7.77	-71.98	-38.87	-132.06	23.34
	-107.71	-8.88	-81.58	-44.10	-149.66	26.33
	-120.38	-10.00	-91.18	-49.32	-167.27	29.32
	0.56	6.34	2.61	4.80	-1.50	8.80
	0.57	6.35	2.62	4.81	-1.48	8.82
	-120.58	-11.45	-91.38	-50.14	-167.55	27.25
	-107.89	-10.31	-81.76	-44.90	-149.91	24.28
	-95.20	-9.17	-72.14	-39.66	-132.27	21.31
	-82.50	-8.03	-62.52	-34.41	-114.64	18.34
	-69.81	-6.90	-52.91	-29.17	-97.00	15.37
	-57.12	-5.76	-43.29	-23.92	-79.36	12.41
	-44.42	-4.62	-33.67	-18.68	-61.73	9.44
	-31.73	-3.48	-24.05	-13.43	-44.09	6.47

	-19.04	-2.34	-14.43	-8.19	-26.45	3.50
	-6.35	-1.21	-4.81	-2.94	-8.82	0.53
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.35	0.07	-4.81	-2.30	-8.82	2.44
	-19.04	-1.07	-14.43	-7.55	-26.45	5.41
	-31.73	-2.21	-24.05	-12.79	-44.09	8.38
	-44.42	-3.35	-33.67	-18.04	-61.73	11.34
	-57.12	-4.49	-43.29	-23.28	-79.36	14.31
	-69.81	-5.62	-52.91	-28.53	-97.00	17.28
	-82.50	-6.76	-62.52	-33.77	-114.64	20.25
	-95.20	-7.90	-72.14	-39.02	-132.27	23.22
	-107.89	-9.04	-81.76	-44.26	-149.91	26.19
	-120.58	-10.18	-91.38	-49.51	-167.55	29.16
	0.57	6.35	2.62	4.81	-1.48	8.82
	0.58	6.36	2.63	4.82	-1.47	8.83
	-120.79	-11.68	-91.59	-50.36	-167.82	27.01
	-108.07	-10.52	-81.95	-45.10	-150.16	24.06
	-95.36	-9.36	-72.30	-39.83	-132.49	21.11
	-82.64	-8.20	-62.66	-34.56	-114.82	18.16
	-69.93	-7.04	-53.02	-29.30	-97.16	15.22
	-57.21	-5.88	-43.38	-24.03	-79.49	12.27
	-44.50	-4.72	-33.74	-18.76	-61.83	9.32
	-31.79	-3.56	-24.10	-13.50	-44.16	6.37
	-19.07	-2.40	-14.46	-8.23	-26.50	3.43
	-6.36	-1.24	-4.82	-2.96	-8.83	0.48
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.36	0.08	-4.82	-2.30	-8.83	2.47
	-19.07	-1.08	-14.46	-7.57	-26.50	5.41
	-31.79	-2.24	-24.10	-12.83	-44.16	8.36
	-44.50	-3.40	-33.74	-18.10	-61.83	11.31
	-57.21	-4.56	-43.38	-23.37	-79.49	14.26
	-69.93	-5.72	-53.02	-28.63	-97.16	17.20
	-82.64	-6.87	-62.66	-33.90	-114.82	20.15
	-95.36	-8.03	-72.30	-39.17	-132.49	23.10
	-108.07	-9.19	-81.95	-44.43	-150.16	26.05
	-120.79	-10.35	-91.59	-49.70	-167.82	28.99
	0.58	6.36	2.63	4.82	-1.47	8.83
	0.59	6.37	2.64	4.83	-1.46	8.85
	-120.99	-11.91	-91.79	-50.58	-168.10	26.76
	-108.26	-10.73	-82.13	-45.29	-150.40	23.83
	-95.52	-9.55	-72.47	-40.01	-132.71	20.91
	-82.78	-8.37	-62.81	-34.72	-115.02	17.98
	-70.05	-7.19	-53.14	-29.43	-97.32	15.06
	-57.31	-6.00	-43.48	-24.14	-79.63	12.13
	-44.58	-4.82	-33.82	-18.85	-61.93	9.21

	-31.84	-3.64	-24.16	-13.56	-44.24	6.28
	-19.10	-2.46	-14.49	-8.28	-26.54	3.35
	-6.37	-1.28	-4.83	-2.99	-8.85	0.43
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.37	0.10	-4.83	-2.30	-8.85	2.50
	-19.10	-1.08	-14.49	-7.59	-26.54	5.42
	-31.84	-2.26	-24.16	-12.88	-44.24	8.35
	-44.58	-3.45	-33.82	-18.16	-61.93	11.27
	-57.31	-4.63	-43.48	-23.45	-79.63	14.20
	-70.05	-5.81	-53.14	-28.74	-97.32	17.12
	-82.78	-6.99	-62.81	-34.03	-115.02	20.05
	-95.52	-8.17	-72.47	-39.32	-132.71	22.98
	-108.26	-9.35	-82.13	-44.60	-150.40	25.90
	-120.99	-10.53	-91.79	-49.89	-168.10	28.83
	0.59	6.37	2.64	4.83	-1.46	8.85
	0.60	6.38	2.66	4.84	-1.45	8.86
	-121.20	-12.15	-92.00	-50.80	-168.38	26.51
	-108.44	-10.94	-82.32	-45.49	-150.66	23.61
	-95.68	-9.74	-72.63	-40.18	-132.93	20.71
	-82.93	-8.54	-62.95	-34.87	-115.21	17.80
	-70.17	-7.33	-53.26	-29.56	-97.48	14.90
	-57.41	-6.13	-43.58	-24.25	-79.76	11.99
	-44.65	-4.93	-33.89	-18.94	-62.03	9.09
	-31.89	-3.72	-24.21	-13.63	-44.31	6.19
	-19.14	-2.52	-14.53	-8.32	-26.59	3.28
	-6.38	-1.32	-4.84	-3.01	-8.86	0.38
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.38	0.11	-4.84	-2.30	-8.86	2.53
	-19.14	-1.09	-14.53	-7.61	-26.59	5.43
	-31.89	-2.29	-24.21	-12.92	-44.31	8.33
	-44.65	-3.50	-33.89	-18.23	-62.03	11.24
	-57.41	-4.70	-43.58	-23.54	-79.76	14.14
	-70.17	-5.90	-53.26	-28.85	-97.48	17.04
	-82.93	-7.10	-62.95	-34.16	-115.21	19.95
	-95.68	-8.31	-72.63	-39.47	-132.93	22.85
	-108.44	-9.51	-82.32	-44.78	-150.66	25.76
	-121.20	-10.71	-92.00	-50.09	-168.38	28.66
	0.60	6.38	2.66	4.84	-1.45	8.86
	0.61	6.39	2.67	4.85	-1.44	8.88
	-121.41	-12.38	-92.21	-51.03	-168.66	26.26
	-108.63	-11.16	-82.50	-45.69	-150.91	23.38
	-95.85	-9.93	-72.80	-40.36	-133.15	20.50
	-83.07	-8.71	-63.09	-35.03	-115.40	17.62
	-70.29	-7.48	-53.38	-29.70	-97.65	14.74
	-57.51	-6.26	-43.68	-24.37	-79.89	11.85

	-44.73	-5.03	-33.97	-19.03	-62.14	8.97
	-31.95	-3.80	-24.27	-13.70	-44.38	6.09
	-19.17	-2.58	-14.56	-8.37	-26.63	3.21
	-6.39	-1.35	-4.85	-3.04	-8.88	0.33
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.39	0.13	-4.85	-2.30	-8.88	2.55
	-19.17	-1.10	-14.56	-7.63	-26.63	5.44
	-31.95	-2.32	-24.27	-12.96	-44.38	8.32
	-44.73	-3.55	-33.97	-18.29	-62.14	11.20
	-57.51	-4.77	-43.68	-23.62	-79.89	14.08
	-70.29	-6.00	-53.38	-28.96	-97.65	16.96
	-83.07	-7.22	-63.09	-34.29	-115.40	19.84
	-95.85	-8.45	-72.80	-39.62	-133.15	22.73
	-108.63	-9.67	-82.50	-44.95	-150.91	25.61
	-121.41	-10.90	-92.21	-50.28	-168.66	28.49
	0.61	6.39	2.67	4.85	-1.44	8.88
	0.62	6.40	2.68	4.86	-1.43	8.89
	-121.62	-12.62	-92.42	-51.25	-168.95	26.01
	-108.82	-11.37	-82.69	-45.90	-151.16	23.15
	-96.02	-10.12	-72.96	-40.54	-133.38	20.29
	-83.21	-8.88	-63.23	-35.19	-115.60	17.43
	-70.41	-7.63	-53.51	-29.83	-97.81	14.57
	-57.61	-6.38	-43.78	-24.48	-80.03	11.72
	-44.81	-5.13	-34.05	-19.12	-62.24	8.86
	-32.01	-3.89	-24.32	-13.77	-44.46	6.00
	-19.20	-2.64	-14.59	-8.42	-26.68	3.14
	-6.40	-1.39	-4.86	-3.06	-8.89	0.28
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.40	0.14	-4.86	-2.29	-8.89	2.58
	-19.20	-1.10	-14.59	-7.65	-26.68	5.44
	-32.01	-2.35	-24.32	-13.00	-44.46	8.30
	-44.81	-3.60	-34.05	-18.36	-62.24	11.16
	-57.61	-4.84	-43.78	-23.71	-80.03	14.02
	-70.41	-6.09	-53.51	-29.06	-97.81	16.88
	-83.21	-7.34	-63.23	-34.42	-115.60	19.74
	-96.02	-8.59	-72.96	-39.77	-133.38	22.60
	-108.82	-9.83	-82.69	-45.13	-151.16	25.46
	-121.62	-11.08	-92.42	-50.48	-168.95	28.32
	0.62	6.40	2.68	4.86	-1.43	8.89
	0.63	6.41	2.69	4.88	-1.42	8.91
	-121.83	-12.86	-92.63	-51.47	-169.23	25.76
	-109.01	-11.59	-82.88	-46.10	-151.42	22.92
	-96.18	-10.32	-73.13	-40.72	-133.61	20.09
	-83.36	-9.05	-63.38	-35.35	-115.79	17.25
	-70.53	-7.78	-53.63	-29.97	-97.98	14.41

	-57.71	-6.51	-43.88	-24.59	-80.16	11.57
	-44.89	-5.24	-34.13	-19.22	-62.35	8.74
	-32.06	-3.97	-24.38	-13.84	-44.54	5.90
	-19.24	-2.70	-14.63	-8.46	-26.72	3.06
	-6.41	-1.43	-4.88	-3.09	-8.91	0.23
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.41	0.16	-4.88	-2.29	-8.91	2.61
	-19.24	-1.11	-14.63	-7.67	-26.72	5.45
	-32.06	-2.38	-24.38	-13.04	-44.54	8.29
	-44.89	-3.65	-34.13	-18.42	-62.35	11.12
	-57.71	-4.92	-43.88	-23.80	-80.16	13.96
	-70.53	-6.19	-53.63	-29.17	-97.98	16.80
	-83.36	-7.46	-63.38	-34.55	-115.79	19.63
	-96.18	-8.73	-73.13	-39.93	-133.61	22.47
	-109.01	-10.00	-82.88	-45.30	-151.42	25.31
	-121.83	-11.27	-92.63	-50.68	-169.23	28.15
	0.63	6.41	2.69	4.88	-1.42	8.91
	0.65	6.42	2.70	4.89	-1.41	8.92
	-122.04	-13.10	-92.85	-51.70	-169.52	25.51
	-109.20	-11.80	-83.07	-46.30	-151.68	22.69
	-96.35	-10.51	-73.30	-40.90	-133.83	19.88
	-83.50	-9.22	-63.53	-35.50	-115.99	17.06
	-70.66	-7.93	-53.75	-30.11	-98.14	14.25
	-57.81	-6.64	-43.98	-24.71	-80.30	11.43
	-44.96	-5.34	-34.21	-19.31	-62.46	8.62
	-32.12	-4.05	-24.43	-13.91	-44.61	5.80
	-19.27	-2.76	-14.66	-8.51	-26.77	2.99
	-6.42	-1.47	-4.89	-3.11	-8.92	0.18
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.42	0.18	-4.89	-2.29	-8.92	2.64
	-19.27	-1.12	-14.66	-7.69	-26.77	5.45
	-32.12	-2.41	-24.43	-13.09	-44.61	8.27
	-44.96	-3.70	-34.21	-18.49	-62.46	11.08
	-57.81	-4.99	-43.98	-23.88	-80.30	13.90
	-70.66	-6.29	-53.75	-29.28	-98.14	16.71
	-83.50	-7.58	-63.53	-34.68	-115.99	19.53
	-96.35	-8.87	-73.30	-40.08	-133.83	22.34
	-109.20	-10.16	-83.07	-45.48	-151.68	25.16
	-122.04	-11.45	-92.85	-50.88	-169.52	27.97
	0.65	6.42	2.70	4.89	-1.41	8.92
	0.66	6.43	2.71	4.90	-1.40	8.94
	-122.26	-13.34	-93.06	-51.93	-169.81	25.25
	-109.39	-12.02	-83.26	-46.51	-151.94	22.46
	-96.52	-10.71	-73.47	-41.09	-134.06	19.67
	-83.65	-9.39	-63.67	-35.66	-116.19	16.88

	-70.78	-8.08	-53.88	-30.24	-98.31	14.08
	-57.91	-6.76	-44.08	-24.82	-80.44	11.29
	-45.04	-5.45	-34.29	-19.40	-62.56	8.50
	-32.17	-4.13	-24.49	-13.98	-44.69	5.71
	-19.30	-2.82	-14.69	-8.56	-26.81	2.92
	-6.43	-1.51	-4.90	-3.13	-8.94	0.12
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.43	0.19	-4.90	-2.29	-8.94	2.67
	-19.30	-1.12	-14.69	-7.71	-26.81	5.46
	-32.17	-2.44	-24.49	-13.13	-44.69	8.25
	-45.04	-3.75	-34.29	-18.55	-62.56	11.04
	-57.91	-5.07	-44.08	-23.97	-80.44	13.84
	-70.78	-6.38	-53.88	-29.39	-98.31	16.63
	-83.65	-7.70	-63.67	-34.82	-116.19	19.42
	-96.52	-9.01	-73.47	-40.24	-134.06	22.21
	-109.39	-10.33	-83.26	-45.66	-151.94	25.01
	-122.26	-11.64	-93.06	-51.08	-169.81	27.80
	0.66	6.43	2.71	4.90	-1.40	8.94
	0.67	6.45	2.72	4.91	-1.38	8.95
	-122.48	-13.58	-93.28	-52.16	-170.10	25.00
	-109.58	-12.24	-83.46	-46.71	-152.20	22.23
	-96.69	-10.91	-73.64	-41.27	-134.29	19.46
	-83.80	-9.57	-63.82	-35.83	-116.39	16.69
	-70.91	-8.23	-54.00	-30.38	-98.48	13.92
	-58.01	-6.89	-44.18	-24.94	-80.57	11.15
	-45.12	-5.56	-34.36	-19.49	-62.67	8.38
	-32.23	-4.22	-24.55	-14.05	-44.76	5.61
	-19.34	-2.88	-14.73	-8.60	-26.86	2.84
	-6.45	-1.54	-4.91	-3.16	-8.95	0.07
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.45	0.21	-4.91	-2.28	-8.95	2.70
	-19.34	-1.13	-14.73	-7.73	-26.86	5.47
	-32.23	-2.47	-24.55	-13.17	-44.76	8.24
	-45.12	-3.81	-34.36	-18.62	-62.67	11.00
	-58.01	-5.14	-44.18	-24.06	-80.57	13.77
	-70.91	-6.48	-54.00	-29.51	-98.48	16.54
	-83.80	-7.82	-63.82	-34.95	-116.39	19.31
	-96.69	-9.16	-73.64	-40.40	-134.29	22.08
	-109.58	-10.49	-83.46	-45.84	-152.20	24.85
	-122.48	-11.83	-93.28	-51.28	-170.10	27.62
	0.67	6.45	2.72	4.91	-1.38	8.95
	0.68	6.46	2.73	4.92	-1.37	8.97
	-122.69	-13.82	-93.49	-52.39	-170.40	24.74
	-109.78	-12.46	-83.65	-46.92	-152.46	21.99
	-96.86	-11.10	-73.81	-41.45	-134.52	19.25

	-83.95	-9.74	-63.97	-35.99	-116.59	16.50
	-71.03	-8.38	-54.13	-30.52	-98.65	13.75
	-58.12	-7.02	-44.29	-25.05	-80.71	11.01
	-45.20	-5.66	-34.44	-19.59	-62.78	8.26
	-32.29	-4.30	-24.60	-14.12	-44.84	5.51
	-19.37	-2.94	-14.76	-8.65	-26.90	2.77
	-6.46	-1.58	-4.92	-3.18	-8.97	0.02
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.46	0.22	-4.92	-2.28	-8.97	2.72
	-19.37	-1.14	-14.76	-7.75	-26.90	5.47
	-32.29	-2.50	-24.60	-13.22	-44.84	8.22
	-45.20	-3.86	-34.44	-18.68	-62.78	10.96
	-58.12	-5.22	-44.29	-24.15	-80.71	13.71
	-71.03	-6.58	-54.13	-29.62	-98.65	16.46
	-83.95	-7.94	-63.97	-35.09	-116.59	19.20
	-96.86	-9.30	-73.81	-40.55	-134.52	21.95
	-109.78	-10.66	-83.65	-46.02	-152.46	24.70
	-122.69	-12.02	-93.49	-51.49	-170.40	27.44
	0.68	6.46	2.73	4.92	-1.37	8.97
	0.69	6.47	2.75	4.93	-1.36	8.98
	-122.91	-14.07	-93.71	-52.62	-170.69	24.48
	-109.97	-12.69	-83.85	-47.13	-152.72	21.76
	-97.03	-11.30	-73.98	-41.64	-134.76	19.04
	-84.10	-9.92	-64.12	-36.15	-116.79	16.31
	-71.16	-8.54	-54.25	-30.66	-98.82	13.59
	-58.22	-7.15	-44.39	-25.17	-80.85	10.87
	-45.28	-5.77	-34.53	-19.68	-62.89	8.14
	-32.34	-4.39	-24.66	-14.19	-44.92	5.42
	-19.41	-3.00	-14.80	-8.70	-26.95	2.69
	-6.47	-1.62	-4.93	-3.21	-8.98	-0.03
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.47	0.24	-4.93	-2.28	-8.98	2.75
	-19.41	-1.15	-14.80	-7.77	-26.95	5.48
	-32.34	-2.53	-24.66	-13.26	-44.92	8.20
	-45.28	-3.91	-34.53	-18.75	-62.89	10.92
	-58.22	-5.30	-44.39	-24.24	-80.85	13.65
	-71.16	-6.68	-54.25	-29.73	-98.82	16.37
	-84.10	-8.06	-64.12	-35.22	-116.79	19.09
	-97.03	-9.45	-73.98	-40.71	-134.76	21.82
	-109.97	-10.83	-83.85	-46.20	-152.72	24.54
	-122.91	-12.21	-93.71	-51.69	-170.69	27.27
	0.69	6.47	2.75	4.93	-1.36	8.98
	0.70	6.48	2.76	4.94	-1.35	9.00
	-123.13	-14.31	-93.93	-52.85	-170.99	24.22
	-110.17	-12.91	-84.04	-47.34	-152.99	21.52

	-97.21	-11.50	-74.16	-41.83	-134.99	18.82
	-84.25	-10.09	-64.27	-36.31	-116.99	16.12
	-71.29	-8.69	-54.38	-30.80	-98.99	13.42
	-58.32	-7.28	-44.49	-25.29	-80.99	10.72
	-45.36	-5.88	-34.61	-19.77	-62.99	8.02
	-32.40	-4.47	-24.72	-14.26	-45.00	5.32
	-19.44	-3.06	-14.83	-8.75	-27.00	2.62
	-6.48	-1.66	-4.94	-3.23	-9.00	-0.08
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.48	0.25	-4.94	-2.28	-9.00	2.78
	-19.44	-1.16	-14.83	-7.79	-27.00	5.48
	-32.40	-2.56	-24.72	-13.31	-45.00	8.18
	-45.36	-3.97	-34.61	-18.82	-62.99	10.88
	-58.32	-5.37	-44.49	-24.33	-80.99	13.58
	-71.29	-6.78	-54.38	-29.85	-98.99	16.28
	-84.25	-8.19	-64.27	-35.36	-116.99	18.98
	-97.21	-9.59	-74.16	-40.87	-134.99	21.69
	-110.17	-11.00	-84.04	-46.39	-152.99	24.39
	-123.13	-12.41	-93.93	-51.90	-170.99	27.09
	0.70	6.48	2.76	4.94	-1.35	9.00
	0.71	6.49	2.77	4.96	-1.34	9.01
1.85	-123.35	-14.56	-94.15	-53.09	-171.28	23.96
	-110.37	-13.13	-84.24	-47.55	-153.25	21.29
	-97.38	-11.70	-74.33	-42.01	-135.22	18.61
	-84.40	-10.27	-64.42	-36.48	-117.19	15.93
	-71.41	-8.84	-54.51	-30.94	-99.16	13.26
	-58.43	-7.41	-44.60	-25.40	-81.13	10.58
	-45.44	-5.98	-34.69	-19.87	-63.10	7.90
	-32.46	-4.55	-24.78	-14.33	-45.07	5.22
	-19.48	-3.12	-14.87	-8.79	-27.04	2.55
	-6.49	-1.70	-4.96	-3.26	-9.01	-0.13
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.49	0.27	-4.96	-2.28	-9.01	2.81
	-19.48	-1.16	-14.87	-7.81	-27.04	5.49
	-32.46	-2.59	-24.78	-13.35	-45.07	8.16
	-45.44	-4.02	-34.69	-18.89	-63.10	10.84
	-58.43	-5.45	-44.60	-24.42	-81.13	13.52
	-71.41	-6.88	-54.51	-29.96	-99.16	16.20
	-84.40	-8.31	-64.42	-35.50	-117.19	18.87
	-97.38	-9.74	-74.33	-41.03	-135.22	21.55
	-110.37	-11.17	-84.24	-46.57	-153.25	24.23
	-123.35	-12.60	-94.15	-52.11	-171.28	26.91
	0.71	6.49	2.77	4.96	-1.34	9.01
1.90	0.73	6.50	2.78	4.97	-1.33	9.03
	-123.57	-14.81	-94.37	-53.32	-171.58	23.70

	-110.56	-13.35	-84.44	-47.76	-153.52	21.05
	-97.56	-11.90	-74.50	-42.20	-135.46	18.40
	-84.55	-10.45	-64.57	-36.64	-117.40	15.74
	-71.54	-9.00	-54.64	-31.08	-99.34	13.09
	-58.53	-7.54	-44.70	-25.52	-81.28	10.43
	-45.53	-6.09	-34.77	-19.96	-63.21	7.78
	-32.52	-4.64	-24.83	-14.40	-45.15	5.12
	-19.51	-3.19	-14.90	-8.84	-27.09	2.47
	-6.50	-1.73	-4.97	-3.28	-9.03	-0.18
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.50	0.28	-4.97	-2.28	-9.03	2.84
	-19.51	-1.17	-14.90	-7.84	-27.09	5.49
	-32.52	-2.62	-24.83	-13.40	-45.15	8.15
	-45.53	-4.08	-34.77	-18.96	-63.21	10.80
	-58.53	-5.53	-44.70	-24.51	-81.28	13.45
	-71.54	-6.98	-54.64	-30.07	-99.34	16.11
	-84.55	-8.44	-64.57	-35.63	-117.40	18.76
	-97.56	-9.89	-74.50	-41.19	-135.46	21.42
	-110.56	-11.34	-84.44	-46.75	-153.52	24.07
	-123.57	-12.79	-94.37	-52.31	-171.58	26.73
	0.73	6.50	2.78	4.97	-1.33	9.03
	0.74	6.52	2.79	4.98	-1.32	9.05
	-123.79	-15.06	-94.59	-53.55	-171.88	23.44
	-110.76	-13.58	-84.64	-47.97	-153.79	20.81
	-97.73	-12.10	-74.68	-42.39	-135.69	18.18
	-84.70	-10.63	-64.72	-36.81	-117.60	15.55
	-71.67	-9.15	-54.76	-31.22	-99.51	12.92
	-58.64	-7.68	-44.81	-25.64	-81.42	10.29
	-45.61	-6.20	-34.85	-20.06	-63.32	7.66
	-32.58	-4.72	-24.89	-14.47	-45.23	5.03
	-19.55	-3.25	-14.94	-8.89	-27.14	2.40
	-6.52	-1.77	-4.98	-3.31	-9.05	-0.23
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.52	0.30	-4.98	-2.27	-9.05	2.87
	-19.55	-1.18	-14.94	-7.86	-27.14	5.50
	-32.58	-2.66	-24.89	-13.44	-45.23	8.13
	-45.61	-4.13	-34.85	-19.02	-63.32	10.76
	-58.64	-5.61	-44.81	-24.61	-81.42	13.39
	-71.67	-7.08	-54.76	-30.19	-99.51	16.02
	-84.70	-8.56	-64.72	-35.77	-117.60	18.65
	-97.73	-10.04	-74.68	-41.36	-135.69	21.28
	-110.76	-11.51	-84.64	-46.94	-153.79	23.91
	-123.79	-12.99	-94.59	-52.52	-171.88	26.54
	0.74	6.52	2.79	4.98	-1.32	9.05
1.95	0.75	6.53	2.80	4.99	-1.30	9.06
2.00						

	-124.01	-15.30	-94.81	-53.79	-172.18	23.18
	-110.96	-13.81	-84.83	-48.18	-154.06	20.57
	-97.91	-12.31	-74.85	-42.58	-135.93	17.97
	-84.85	-10.81	-64.87	-36.97	-117.81	15.36
	-71.80	-9.31	-54.89	-31.36	-99.68	12.75
	-58.74	-7.81	-44.91	-25.76	-81.56	10.14
	-45.69	-6.31	-34.93	-20.15	-63.43	7.54
	-32.64	-4.81	-24.95	-14.55	-45.31	4.93
	-19.58	-3.31	-14.97	-8.94	-27.19	2.32
	-6.53	-1.81	-4.99	-3.33	-9.06	-0.29
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.53	0.31	-4.99	-2.27	-9.06	2.89
	-19.58	-1.19	-14.97	-7.88	-27.19	5.50
	-32.64	-2.69	-24.95	-13.49	-45.31	8.11
	-45.69	-4.19	-34.93	-19.09	-63.43	10.72
	-58.74	-5.69	-44.91	-24.70	-81.56	13.32
	-71.80	-7.19	-54.89	-30.30	-99.68	15.93
	-84.85	-8.69	-64.87	-35.91	-117.81	18.54
	-97.91	-10.19	-74.85	-41.52	-135.93	21.15
	-110.96	-11.69	-84.83	-47.12	-154.06	23.75
	-124.01	-13.18	-94.81	-52.73	-172.18	26.36
	0.75	6.53	2.80	4.99	-1.30	9.06
	0.76	6.54	2.81	5.00	-1.29	9.08
	-124.24	-15.55	-95.04	-54.03	-172.48	22.92
	-111.16	-14.03	-85.03	-48.40	-154.33	20.33
	-98.08	-12.51	-75.03	-42.77	-136.17	17.75
	-85.00	-10.99	-65.03	-37.14	-118.01	15.17
	-71.93	-9.46	-55.02	-31.51	-99.86	12.58
	-58.85	-7.94	-45.02	-25.88	-81.70	10.00
	-45.77	-6.42	-35.01	-20.25	-63.55	7.41
	-32.69	-4.89	-25.01	-14.62	-45.39	4.83
	-19.62	-3.37	-15.01	-8.99	-27.23	2.25
	-6.54	-1.85	-5.00	-3.36	-9.08	-0.34
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.54	0.33	-5.00	-2.27	-9.08	2.92
	-19.62	-1.20	-15.01	-7.90	-27.23	5.51
	-32.69	-2.72	-25.01	-13.53	-45.39	8.09
	-45.77	-4.24	-35.01	-19.16	-63.55	10.67
	-58.85	-5.77	-45.02	-24.79	-81.70	13.26
	-71.93	-7.29	-55.02	-30.42	-99.86	15.84
	-85.00	-8.81	-65.03	-36.05	-118.01	18.43
	-98.08	-10.34	-75.03	-41.68	-136.17	21.01
	-111.16	-11.86	-85.03	-47.31	-154.33	23.59
	-124.24	-13.38	-95.04	-52.94	-172.48	26.18
	0.76	6.54	2.81	5.00	-1.29	9.08

2.05

2.10	0.77	6.55	2.83	5.01	-1.28	9.09
	-124.46	-15.81	-95.26	-54.26	-172.78	22.65
	-111.36	-14.26	-85.23	-48.61	-154.60	20.09
	-98.26	-12.71	-75.21	-42.96	-136.41	17.53
	-85.16	-11.17	-65.18	-37.30	-118.22	14.97
	-72.06	-9.62	-55.15	-31.65	-100.03	12.41
	-58.96	-8.07	-45.12	-26.00	-81.85	9.85
	-45.85	-6.53	-35.10	-20.34	-63.66	7.29
	-32.75	-4.98	-25.07	-14.69	-45.47	4.73
	-19.65	-3.43	-15.04	-9.04	-27.28	2.17
	-6.55	-1.89	-5.01	-3.38	-9.09	-0.39
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.55	0.34	-5.01	-2.27	-9.09	2.95
	-19.65	-1.21	-15.04	-7.92	-27.28	5.51
	-32.75	-2.75	-25.07	-13.58	-45.47	8.07
	-45.85	-4.30	-35.10	-19.23	-63.66	10.63
	-58.96	-5.85	-45.12	-24.88	-81.85	13.19
	-72.06	-7.39	-55.15	-30.54	-100.03	15.75
	-85.16	-8.94	-65.18	-36.19	-118.22	18.31
	-98.26	-10.49	-75.21	-41.84	-136.41	20.87
-111.36	-12.03	-85.23	-47.50	-154.60	23.43	
-124.46	-13.58	-95.26	-53.15	-172.78	25.99	
0.77	6.55	2.83	5.01	-1.28	9.09	
2.15	0.79	6.56	2.84	5.03	-1.27	9.11
	-124.69	-16.06	-95.49	-54.50	-173.09	22.39
	-111.56	-14.49	-85.44	-48.82	-154.87	19.85
	-98.44	-12.92	-75.38	-43.15	-136.65	17.32
	-85.31	-11.35	-65.33	-37.47	-118.43	14.78
	-72.19	-9.78	-55.28	-31.79	-100.21	12.24
	-59.06	-8.21	-45.23	-26.12	-81.99	9.71
	-45.94	-6.64	-35.18	-20.44	-63.77	7.17
	-32.81	-5.06	-25.13	-14.76	-45.55	4.63
	-19.69	-3.49	-15.08	-9.09	-27.33	2.10
	-6.56	-1.92	-5.03	-3.41	-9.11	-0.44
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.56	0.35	-5.03	-2.27	-9.11	2.98
	-19.69	-1.22	-15.08	-7.95	-27.33	5.51
	-32.81	-2.79	-25.13	-13.62	-45.55	8.05
	-45.94	-4.36	-35.18	-19.30	-63.77	10.59
	-59.06	-5.93	-45.23	-24.98	-81.99	13.12
	-72.19	-7.50	-55.28	-30.65	-100.21	15.66
	-85.31	-9.07	-65.33	-36.33	-118.43	18.20
	-98.44	-10.64	-75.38	-42.01	-136.65	20.73
-111.56	-12.21	-85.44	-47.69	-154.87	23.27	
-124.69	-13.78	-95.49	-53.36	-173.09	25.81	

	0.79	6.56	2.84	5.03	-1.27	9.11
2.20	0.80	6.57	2.85	5.04	-1.26	9.13
	-124.91	-16.31	-95.71	-54.74	-173.39	22.12
	-111.76	-14.71	-85.64	-49.04	-155.14	19.61
	-98.61	-13.12	-75.56	-43.34	-136.89	17.10
	-85.47	-11.53	-65.49	-37.64	-118.64	14.59
	-72.32	-9.93	-55.41	-31.94	-100.38	12.07
	-59.17	-8.34	-45.34	-26.24	-82.13	9.56
	-46.02	-6.74	-35.26	-20.54	-63.88	7.05
	-32.87	-5.15	-25.19	-14.84	-45.63	4.53
	-19.72	-3.56	-15.11	-9.13	-27.38	2.02
	-6.57	-1.96	-5.04	-3.43	-9.13	-0.49
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.57	0.37	-5.04	-2.27	-9.13	3.01
	-19.72	-1.22	-15.11	-7.97	-27.38	5.52
	-32.87	-2.82	-25.19	-13.67	-45.63	8.03
	-46.02	-4.41	-35.26	-19.37	-63.88	10.54
	-59.17	-6.01	-45.34	-25.07	-82.13	13.06
	-72.32	-7.60	-55.41	-30.77	-100.38	15.57
	-85.47	-9.19	-65.49	-36.47	-118.64	18.08
	-98.61	-10.79	-75.56	-42.17	-136.89	20.60
	-111.76	-12.38	-85.64	-47.87	-155.14	23.11
-124.91	-13.98	-95.71	-53.57	-173.39	25.62	
	0.80	6.57	2.85	5.04	-1.26	9.13
2.25	0.81	6.59	2.86	5.05	-1.24	9.14
	-125.14	-16.56	-95.94	-54.98	-173.70	21.86
	-111.97	-14.94	-85.84	-49.26	-155.41	19.37
	-98.79	-13.33	-75.74	-43.53	-137.13	16.88
	-85.62	-11.71	-65.64	-37.81	-118.85	14.39
	-72.45	-10.09	-55.54	-32.08	-100.56	11.90
	-59.28	-8.47	-45.44	-26.36	-82.28	9.41
	-46.10	-6.85	-35.35	-20.63	-63.99	6.92
	-32.93	-5.24	-25.25	-14.91	-45.71	4.43
	-19.76	-3.62	-15.15	-9.18	-27.43	1.95
	-6.59	-2.00	-5.05	-3.46	-9.14	-0.54
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.59	0.38	-5.05	-2.27	-9.14	3.03
	-19.76	-1.23	-15.15	-7.99	-27.43	5.52
	-32.93	-2.85	-25.25	-13.72	-45.71	8.01
	-46.10	-4.47	-35.35	-19.44	-63.99	10.50
	-59.28	-6.09	-45.44	-25.16	-82.28	12.99
	-72.45	-7.70	-55.54	-30.89	-100.56	15.48
	-85.62	-9.32	-65.64	-36.61	-118.85	17.97
	-98.79	-10.94	-75.74	-42.34	-137.13	20.46
	-111.97	-12.56	-85.84	-48.06	-155.41	22.95

	-125.14	-14.18	-95.94	-53.79	-173.70	25.44
	0.81	6.59	2.86	5.05	-1.24	9.14
2.30	0.82	6.60	2.87	5.06	-1.23	9.16
	-125.36	-16.81	-96.16	-55.22	-174.00	21.59
	-112.17	-15.17	-86.04	-49.47	-155.69	19.13
	-98.97	-13.53	-75.92	-43.72	-137.37	16.66
	-85.78	-11.89	-65.80	-37.97	-119.05	14.20
	-72.58	-10.25	-55.67	-32.23	-100.74	11.73
	-59.38	-8.61	-45.55	-26.48	-82.42	9.27
	-46.19	-6.96	-35.43	-20.73	-64.11	6.80
	-32.99	-5.32	-25.31	-14.98	-45.79	4.33
	-19.79	-3.68	-15.18	-9.23	-27.47	1.87
	-6.60	-2.04	-5.06	-3.48	-9.16	-0.60
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.60	0.40	-5.06	-2.26	-9.16	3.06
	-19.79	-1.24	-15.18	-8.01	-27.47	5.53
	-32.99	-2.88	-25.31	-13.76	-45.79	7.99
	-46.19	-4.53	-35.43	-19.51	-64.11	10.46
	-59.38	-6.17	-45.55	-25.26	-82.42	12.92
	-72.58	-7.81	-55.67	-31.01	-100.74	15.39
	-85.78	-9.45	-65.80	-36.76	-119.05	17.85
	-98.97	-11.09	-75.92	-42.50	-137.37	20.32
-112.17	-12.73	-86.04	-48.25	-155.69	22.78	
-125.36	-14.38	-96.16	-54.00	-174.00	25.25	
	0.82	6.60	2.87	5.06	-1.23	9.16
2.35	0.83	6.61	2.89	5.07	-1.22	9.17
	-125.59	-17.07	-96.39	-55.46	-174.31	21.33
	-112.37	-15.40	-86.25	-49.69	-155.96	18.88
	-99.15	-13.74	-76.10	-43.92	-137.61	16.44
	-85.93	-12.07	-65.95	-38.14	-119.26	14.00
	-72.71	-10.41	-55.81	-32.37	-100.92	11.56
	-59.49	-8.74	-45.66	-26.60	-82.57	9.12
	-46.27	-7.07	-35.51	-20.83	-64.22	6.68
	-33.05	-5.41	-25.37	-15.05	-45.87	4.24
	-19.83	-3.74	-15.22	-9.28	-27.52	1.79
	-6.61	-2.08	-5.07	-3.51	-9.17	-0.65
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.61	0.41	-5.07	-2.26	-9.17	3.09
	-19.83	-1.25	-15.22	-8.04	-27.52	5.53
	-33.05	-2.92	-25.37	-13.81	-45.87	7.97
	-46.27	-4.58	-35.51	-19.58	-64.22	10.41
	-59.49	-6.25	-45.66	-25.35	-82.57	12.85
	-72.71	-7.91	-55.81	-31.13	-100.92	15.30
	-85.93	-9.58	-65.95	-36.90	-119.26	17.74
	-99.15	-11.25	-76.10	-42.67	-137.61	20.18

	-112.37	-12.91	-86.25	-48.44	-155.96	22.62
	-125.59	-14.58	-96.39	-54.21	-174.31	25.06
	0.83	6.61	2.89	5.07	-1.22	9.17
2.40	0.88	6.66	2.93	5.12	-1.17	9.24
	-126.47	-17.97	-97.27	-56.35	-175.50	20.41
	-113.16	-16.22	-87.03	-50.49	-157.02	18.06
	-99.85	-14.46	-76.79	-44.62	-138.55	15.71
	-86.53	-12.70	-66.55	-38.76	-120.08	13.36
	-73.22	-10.94	-56.32	-32.89	-101.60	11.01
	-59.91	-9.18	-46.08	-27.03	-83.13	8.66
	-46.59	-7.43	-35.84	-21.16	-64.66	6.31
	-33.28	-5.67	-25.60	-15.30	-46.18	3.96
	-19.97	-3.91	-15.36	-9.43	-27.71	1.62
	-6.66	-2.15	-5.12	-3.57	-9.24	-0.73
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.66	0.39	-5.12	-2.30	-9.24	3.08
	-19.97	-1.37	-15.36	-8.16	-27.71	5.43
	-33.28	-3.12	-25.60	-14.03	-46.18	7.78
	-46.59	-4.88	-35.84	-19.89	-64.66	10.13
	-59.91	-6.64	-46.08	-25.76	-83.13	12.48
	-73.22	-8.40	-56.32	-31.62	-101.60	14.83
	-86.53	-10.16	-66.55	-37.49	-120.08	17.18
	-99.85	-11.91	-76.79	-43.35	-138.55	19.52
	-113.16	-13.67	-87.03	-49.22	-157.02	21.87
	-126.47	-15.43	-97.27	-55.08	-175.50	24.22
		0.88	6.66	2.93	5.12	-1.17
2.45	0.89	6.67	2.95	5.13	-1.16	9.25
	-126.71	-18.24	-97.51	-56.61	-175.82	20.13
	-113.37	-16.46	-87.25	-50.71	-157.31	17.80
	-100.03	-14.67	-76.98	-44.82	-138.80	15.48
	-86.70	-12.89	-66.72	-38.93	-120.30	13.16
	-73.36	-11.11	-56.45	-33.04	-101.79	10.83
	-60.02	-9.32	-46.19	-27.15	-83.28	8.51
	-46.68	-7.54	-35.92	-21.26	-64.78	6.19
	-33.34	-5.76	-25.66	-15.37	-46.27	3.86
	-20.01	-3.97	-15.40	-9.48	-27.76	1.54
	-6.67	-2.19	-5.13	-3.59	-9.25	-0.79
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.67	0.41	-5.13	-2.30	-9.25	3.11
	-20.01	-1.38	-15.40	-8.19	-27.76	5.43
	-33.34	-3.16	-25.66	-14.08	-46.27	7.76
	-46.68	-4.94	-35.92	-19.97	-64.78	10.08
	-60.02	-6.73	-46.19	-25.86	-83.28	12.40
	-73.36	-8.51	-56.45	-31.75	-101.79	14.73
-86.70	-10.29	-66.72	-37.64	-120.30	17.05	

	-100.03	-12.08	-76.98	-43.53	-138.80	19.38
	-113.37	-13.86	-87.25	-49.42	-157.31	21.70
	-126.71	-15.64	-97.51	-55.31	-175.82	24.02
	0.89	6.67	2.95	5.13	-1.16	9.25
2.50	0.90	6.68	2.96	5.14	-1.15	9.27
	-126.95	-18.50	-97.75	-56.86	-176.14	19.85
	-113.59	-16.70	-87.46	-50.94	-157.60	17.55
	-100.22	-14.89	-77.17	-45.03	-139.06	15.25
	-86.86	-13.08	-66.88	-39.11	-120.52	12.95
	-73.50	-11.27	-56.59	-33.20	-101.98	10.65
	-60.13	-9.46	-46.30	-27.28	-83.44	8.36
	-46.77	-7.65	-36.01	-21.37	-64.89	6.06
	-33.41	-5.85	-25.72	-15.45	-46.35	3.76
	-20.04	-4.04	-15.43	-9.54	-27.81	1.46
	-6.68	-2.23	-5.14	-3.62	-9.27	-0.84
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.68	0.42	-5.14	-2.30	-9.27	3.14
	-20.04	-1.39	-15.43	-8.21	-27.81	5.44
	-33.41	-3.20	-25.72	-14.13	-46.35	7.73
	-46.77	-5.00	-36.01	-20.04	-64.89	10.03
	-60.13	-6.81	-46.30	-25.96	-83.44	12.33
	-73.50	-8.62	-56.59	-31.87	-101.98	14.63
	-86.86	-10.43	-66.88	-37.79	-120.52	16.93
	-100.22	-12.24	-77.17	-43.70	-139.06	19.23
	-113.59	-14.05	-87.46	-49.62	-157.60	21.53
	-126.95	-15.85	-97.75	-55.53	-176.14	23.82
	0.90	6.68	2.96	5.14	-1.15	9.27
2.55	0.92	6.69	2.97	5.16	-1.14	9.29
	-127.19	-18.77	-97.99	-57.11	-176.47	19.57
	-113.80	-16.94	-87.67	-51.17	-157.89	17.30
	-100.41	-15.10	-77.36	-45.23	-139.31	15.02
	-87.02	-13.27	-67.05	-39.29	-120.74	12.75
	-73.64	-11.44	-56.73	-33.35	-102.16	10.48
	-60.25	-9.60	-46.42	-27.41	-83.59	8.20
	-46.86	-7.77	-36.10	-21.47	-65.01	5.93
	-33.47	-5.94	-25.79	-15.53	-46.44	3.66
	-20.08	-4.10	-15.47	-9.59	-27.86	1.38
	-6.69	-2.27	-5.16	-3.65	-9.29	-0.89
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.69	0.43	-5.16	-2.29	-9.29	3.16
	-20.08	-1.40	-15.47	-8.23	-27.86	5.44
	-33.47	-3.23	-25.79	-14.18	-46.44	7.71
	-46.86	-5.07	-36.10	-20.12	-65.01	9.98
	-60.25	-6.90	-46.42	-26.06	-83.59	12.26
	-73.64	-8.73	-56.73	-32.00	-102.16	14.53

	-87.02	-10.57	-67.05	-37.94	-120.74	16.80
	-100.41	-12.40	-77.36	-43.88	-139.31	19.08
	-113.80	-14.23	-87.67	-49.82	-157.89	21.35
	-127.19	-16.07	-97.99	-55.76	-176.47	23.62
	0.92	6.69	2.97	5.16	-1.14	9.29
	0.97	6.74	3.02	5.21	-1.09	9.35
	-128.12	-19.73	-98.92	-58.06	-177.73	18.60
	-114.64	-17.80	-88.51	-52.02	-159.02	16.42
	-101.15	-15.87	-78.10	-45.98	-140.31	14.25
	-87.66	-13.94	-67.68	-39.94	-121.60	12.07
	-74.18	-12.00	-57.27	-33.90	-102.89	9.90
	-60.69	-10.07	-46.86	-27.86	-84.19	7.72
	-47.20	-8.14	-36.45	-21.82	-65.48	5.55
	-33.72	-6.21	-26.03	-15.79	-46.77	3.37
	-20.23	-4.28	-15.62	-9.75	-28.06	1.20
	-6.74	-2.34	-5.21	-3.71	-9.35	-0.98
2.60	0.00	0.00	0.00	0.00	0.00	0.00
	-6.74	0.41	-5.21	-2.33	-9.35	3.15
	-20.23	-1.52	-15.62	-8.37	-28.06	5.33
	-33.72	-3.45	-26.03	-14.41	-46.77	7.50
	-47.20	-5.38	-36.45	-20.45	-65.48	9.68
	-60.69	-7.32	-46.86	-26.49	-84.19	11.85
	-74.18	-9.25	-57.27	-32.52	-102.89	14.03
	-87.66	-11.18	-67.68	-38.56	-121.60	16.20
	-101.15	-13.11	-78.10	-44.60	-140.31	18.38
	-114.64	-15.04	-88.51	-50.64	-159.02	20.55
	-128.12	-16.98	-98.92	-56.68	-177.73	22.73
	0.97	6.74	3.02	5.21	-1.09	9.35
	0.98	6.76	3.03	5.22	-1.07	9.37
	-128.37	-20.01	-99.17	-58.32	-178.07	18.30
	-114.86	-18.05	-88.74	-52.26	-159.32	16.16
	-101.35	-16.09	-78.30	-46.19	-140.58	14.01
	-87.83	-14.13	-67.86	-40.13	-121.83	11.86
	-74.32	-12.18	-57.42	-34.06	-103.09	9.71
	-60.81	-10.22	-46.98	-28.00	-84.35	7.56
	-47.30	-8.26	-36.54	-21.93	-65.60	5.41
	-33.78	-6.30	-26.10	-15.87	-46.86	3.26
	-20.27	-4.34	-15.66	-9.80	-28.12	1.12
	-6.76	-2.38	-5.22	-3.73	-9.37	-1.03
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.76	0.43	-5.22	-2.33	-9.37	3.18
	-20.27	-1.53	-15.66	-8.40	-28.12	5.33
	-33.78	-3.49	-26.10	-14.46	-46.86	7.48
	-47.30	-5.45	-36.54	-20.53	-65.60	9.63
	-60.81	-7.41	-46.98	-26.59	-84.35	11.78
2.65						

	-74.32	-9.37	-57.42	-32.66	-103.09	13.92
	-87.83	-11.32	-67.86	-38.72	-121.83	16.07
	-101.35	-13.28	-78.30	-44.79	-140.58	18.22
	-114.86	-15.24	-88.74	-50.85	-159.32	20.37
	-128.37	-17.20	-99.17	-56.92	-178.07	22.52
	0.98	6.76	3.03	5.22	-1.07	9.37
	0.99	6.77	3.05	5.23	-1.06	9.39
	-128.63	-20.29	-99.43	-58.59	-178.41	18.01
	-115.09	-18.30	-88.96	-52.50	-159.63	15.89
	-101.55	-16.32	-78.49	-46.40	-140.85	13.77
	-88.01	-14.33	-68.03	-40.31	-122.07	11.65
	-74.47	-12.35	-57.56	-34.22	-103.29	9.52
	-60.93	-10.36	-47.10	-28.13	-84.51	7.40
	-47.39	-8.38	-36.63	-22.04	-65.73	5.28
	-33.85	-6.39	-26.16	-15.94	-46.95	3.16
	-20.31	-4.41	-15.70	-9.85	-28.17	1.04
	-6.77	-2.42	-5.23	-3.76	-9.39	-1.09
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.77	0.44	-5.23	-2.33	-9.39	3.21
	-20.31	-1.55	-15.70	-8.42	-28.17	5.33
	-33.85	-3.53	-26.16	-14.51	-46.95	7.45
	-47.39	-5.52	-36.63	-20.61	-65.73	9.57
	-60.93	-7.50	-47.10	-26.70	-84.51	11.70
	-74.47	-9.49	-57.56	-32.79	-103.29	13.82
	-88.01	-11.47	-68.03	-38.88	-122.07	15.94
	-101.55	-13.46	-78.49	-44.97	-140.85	18.06
	-115.09	-15.44	-88.96	-51.06	-159.63	20.18
	-128.63	-17.43	-99.43	-57.16	-178.41	22.31
	0.99	6.77	3.05	5.23	-1.06	9.39
	1.01	6.78	3.06	5.25	-1.05	9.41
	-128.88	-20.57	-99.68	-58.85	-178.75	17.72
	-115.31	-18.55	-89.19	-52.73	-159.93	15.63
	-101.75	-16.54	-78.69	-46.62	-141.12	13.53
	-88.18	-14.53	-68.20	-40.50	-122.30	11.43
	-74.61	-12.52	-57.71	-34.38	-103.48	9.34
	-61.05	-10.51	-47.22	-28.26	-84.67	7.24
	-47.48	-8.50	-36.72	-22.14	-65.85	5.15
	-33.92	-6.49	-26.23	-16.02	-47.04	3.05
	-20.35	-4.47	-15.74	-9.91	-28.22	0.96
	-6.78	-2.46	-5.25	-3.79	-9.41	-1.14
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.78	0.45	-5.25	-2.33	-9.41	3.23
	-20.35	-1.56	-15.74	-8.45	-28.22	5.33
	-33.92	-3.57	-26.23	-14.57	-47.04	7.42
	-47.48	-5.58	-36.72	-20.69	-65.85	9.52

	-61.05	-7.59	-47.22	-26.80	-84.67	11.62
	-74.61	-9.61	-57.71	-32.92	-103.48	13.71
	-88.18	-11.62	-68.20	-39.04	-122.30	15.81
	-101.75	-13.63	-78.69	-45.16	-141.12	17.90
	-115.31	-15.64	-89.19	-51.28	-159.93	20.00
	-128.88	-17.65	-99.68	-57.39	-178.75	22.09
	1.01	6.78	3.06	5.25	-1.05	9.41
2.80	1.02	6.80	3.08	5.26	-1.03	9.43
	-129.20	-20.92	-100.00	-59.19	-179.19	17.36
	-115.60	-18.87	-89.48	-53.04	-160.32	15.29
	-102.00	-16.83	-78.95	-46.89	-141.46	13.23
	-88.40	-14.78	-68.42	-40.73	-122.60	11.17
	-74.80	-12.74	-57.90	-34.58	-103.74	9.11
	-61.20	-10.69	-47.37	-28.43	-84.88	7.05
	-47.60	-8.64	-36.84	-22.28	-66.02	4.99
	-34.00	-6.60	-26.32	-16.12	-47.15	2.93
	-20.40	-4.55	-15.79	-9.97	-28.29	0.87
	-6.80	-2.51	-5.26	-3.82	-9.43	-1.20
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.80	0.46	-5.26	-2.33	-9.43	3.26
	-20.40	-1.58	-15.79	-8.49	-28.29	5.32
	-34.00	-3.63	-26.32	-14.64	-47.15	7.38
	-47.60	-5.68	-36.84	-20.79	-66.02	9.44
	-61.20	-7.72	-47.37	-26.94	-84.88	11.50
	-74.80	-9.77	-57.90	-33.10	-103.74	13.56
	-88.40	-11.81	-68.42	-39.25	-122.60	15.62
	-102.00	-13.86	-78.95	-45.40	-141.46	17.68
	-115.60	-15.90	-89.48	-51.56	-160.32	19.75
	-129.20	-17.95	-100.00	-57.71	-179.19	21.81
	1.02	6.80	3.08	5.26	-1.03	9.43
2.85	1.04	6.81	3.09	5.28	-1.02	9.45
	-129.46	-21.20	-100.26	-59.46	-179.53	17.06
	-115.83	-19.13	-89.70	-53.28	-160.63	15.03
	-102.20	-17.05	-79.15	-47.10	-141.73	12.99
	-88.58	-14.98	-68.60	-40.92	-122.84	10.96
	-74.95	-12.91	-58.04	-34.74	-103.94	8.92
	-61.32	-10.84	-47.49	-28.56	-85.04	6.89
	-47.70	-8.76	-36.94	-22.38	-66.14	4.85
	-34.07	-6.69	-26.38	-16.20	-47.24	2.82
	-20.44	-4.62	-15.83	-10.02	-28.35	0.79
	-6.81	-2.55	-5.28	-3.84	-9.45	-1.25
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	-6.81	0.47	-5.28	-2.33	-9.45	3.28
	-20.44	-1.60	-15.83	-8.51	-28.35	5.32
	-34.07	-3.67	-26.38	-14.69	-47.24	7.35

	-47.70	-5.74	-36.94	-20.87	-66.14	9.39
	-61.32	-7.82	-47.49	-27.05	-85.04	11.42
	-74.95	-9.89	-58.04	-33.23	-103.94	13.46
	-88.58	-11.96	-68.60	-39.41	-122.84	15.49
	-102.20	-14.03	-79.15	-45.59	-141.73	17.52
	-115.83	-16.11	-89.70	-51.77	-160.63	19.56
	-129.46	-18.18	-100.26	-57.95	-179.53	21.59
	1.04	6.81	3.09	5.28	-1.02	9.45
	1.05	6.83	3.10	5.29	-1.00	9.47
	-129.71	-21.48	-100.51	-59.73	-179.87	16.77
	-116.06	-19.38	-89.93	-53.52	-160.94	14.76
	-102.40	-17.28	-79.35	-47.31	-142.00	12.75
	-88.75	-15.18	-68.77	-41.11	-123.07	10.74
	-75.10	-13.08	-58.19	-34.90	-104.14	8.74
	-61.44	-10.98	-47.61	-28.70	-85.20	6.73
	-47.79	-8.88	-37.03	-22.49	-66.27	4.72
	-34.13	-6.79	-26.45	-16.28	-47.33	2.71
	-20.48	-4.69	-15.87	-10.08	-28.40	0.71
	-6.83	-2.59	-5.29	-3.87	-9.47	-1.30
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.83	0.49	-5.29	-2.33	-9.47	3.31
	-20.48	-1.61	-15.87	-8.54	-28.40	5.32
	-34.13	-3.71	-26.45	-14.75	-47.33	7.32
	-47.79	-5.81	-37.03	-20.95	-66.27	9.33
	-61.44	-7.91	-47.61	-27.16	-85.20	11.34
	-75.10	-10.01	-58.19	-33.37	-104.14	13.35
	-88.75	-12.11	-68.77	-39.57	-123.07	15.36
	-102.40	-14.21	-79.35	-45.78	-142.00	17.36
	-116.06	-16.31	-89.93	-51.98	-160.94	19.37
	-129.71	-18.41	-100.51	-58.19	-179.87	21.38
	1.05	6.83	3.10	5.29	-1.00	9.47
	1.06	6.84	3.12	5.30	-0.99	9.49
	-129.97	-21.76	-100.77	-59.99	-180.22	16.47
	-116.29	-19.64	-90.16	-53.76	-161.25	14.49
	-102.61	-17.51	-79.55	-47.53	-142.28	12.51
	-88.93	-15.38	-68.95	-41.30	-123.31	10.53
	-75.24	-13.26	-58.34	-35.06	-104.34	8.55
	-61.56	-11.13	-47.73	-28.83	-85.37	6.57
	-47.88	-9.00	-37.12	-22.60	-66.40	4.59
	-34.20	-6.88	-26.52	-16.36	-47.43	2.61
	-20.52	-4.75	-15.91	-10.13	-28.46	0.63
	-6.84	-2.63	-5.30	-3.90	-9.49	-1.35
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.84	0.50	-5.30	-2.33	-9.49	3.34
	-20.52	-1.63	-15.91	-8.57	-28.46	5.32

	-34.20	-3.75	-26.52	-14.80	-47.43	7.30
	-47.88	-5.88	-37.12	-21.03	-66.40	9.28
	-61.56	-8.00	-47.73	-27.27	-85.37	11.26
	-75.24	-10.13	-58.34	-33.50	-104.34	13.24
	-88.93	-12.26	-68.95	-39.73	-123.31	15.22
	-102.61	-14.38	-79.55	-45.97	-142.28	17.20
	-116.29	-16.51	-90.16	-52.20	-161.25	19.18
	-129.97	-18.63	-100.77	-58.43	-180.22	21.16
	1.06	6.84	3.12	5.30	-0.99	9.49
	1.08	6.85	3.13	5.32	-0.98	9.50
	-130.22	-22.04	-101.02	-60.26	-180.56	16.18
	-116.51	-19.89	-90.39	-54.00	-161.55	14.22
	-102.81	-17.74	-79.76	-47.74	-142.55	12.27
	-89.10	-15.58	-69.12	-41.48	-123.54	10.32
	-75.39	-13.43	-58.49	-35.22	-104.54	8.36
	-61.68	-11.28	-47.85	-28.96	-85.53	6.41
	-47.98	-9.13	-37.22	-22.70	-66.52	4.45
	-34.27	-6.97	-26.59	-16.44	-47.52	2.50
	-20.56	-4.82	-15.95	-10.18	-28.51	0.55
	-6.85	-2.67	-5.32	-3.92	-9.50	-1.41
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.85	0.51	-5.32	-2.33	-9.50	3.36
	-20.56	-1.64	-15.95	-8.59	-28.51	5.32
	-34.27	-3.79	-26.59	-14.85	-47.52	7.27
	-47.98	-5.95	-37.22	-21.11	-66.52	9.22
	-61.68	-8.10	-47.85	-27.37	-85.53	11.18
	-75.39	-10.25	-58.49	-33.63	-104.54	13.13
	-89.10	-12.40	-69.12	-39.89	-123.54	15.09
	-102.81	-14.56	-79.76	-46.15	-142.55	17.04
	-116.51	-16.71	-90.39	-52.41	-161.55	18.99
	-130.22	-18.86	-101.02	-58.67	-180.56	20.95
	1.08	6.85	3.13	5.32	-0.98	9.50
	1.09	6.87	3.14	5.33	-0.96	9.52
	-130.48	-22.33	-101.28	-60.53	-180.91	15.88
	-116.74	-20.15	-90.62	-54.25	-161.86	13.96
	-103.01	-17.97	-79.96	-47.96	-142.82	12.03
	-89.27	-15.79	-69.30	-41.67	-123.78	10.10
	-75.54	-13.61	-58.63	-35.39	-104.74	8.17
	-61.81	-11.43	-47.97	-29.10	-85.69	6.25
	-48.07	-9.25	-37.31	-22.81	-66.65	4.32
	-34.34	-7.07	-26.65	-16.53	-47.61	2.39
	-20.60	-4.89	-15.99	-10.24	-28.56	0.47
	-6.87	-2.71	-5.33	-3.95	-9.52	-1.46
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.87	0.53	-5.33	-2.34	-9.52	3.39

	-20.60	-1.65	-15.99	-8.62	-28.56	5.32
	-34.34	-3.83	-26.65	-14.91	-47.61	7.24
	-48.07	-6.01	-37.31	-21.20	-66.65	9.17
	-61.81	-8.19	-47.97	-27.48	-85.69	11.10
	-75.54	-10.37	-58.63	-33.77	-104.74	13.02
	-89.27	-12.55	-69.30	-40.06	-123.78	14.95
	-103.01	-14.73	-79.96	-46.34	-142.82	16.88
	-116.74	-16.91	-90.62	-52.63	-161.86	18.80
	-130.48	-19.09	-101.28	-58.92	-180.91	20.73
	1.09	6.87	3.14	5.33	-0.96	9.52
	1.10	6.88	3.16	5.34	-0.95	9.54
	-130.73	-22.61	-101.53	-60.80	-181.25	15.59
	-116.97	-20.40	-90.85	-54.49	-162.17	13.69
	-103.21	-18.19	-80.16	-48.17	-143.09	11.79
	-89.45	-15.99	-69.47	-41.86	-124.01	9.89
	-75.69	-13.78	-58.78	-35.55	-104.94	7.99
	-61.93	-11.57	-48.10	-29.23	-85.86	6.09
	-48.17	-9.37	-37.41	-22.92	-66.78	4.19
	-34.40	-7.16	-26.72	-16.61	-47.70	2.29
	-20.64	-4.95	-16.03	-10.29	-28.62	0.39
	-6.88	-2.75	-5.34	-3.98	-9.54	-1.51
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.88	0.54	-5.34	-2.34	-9.54	3.41
	-20.64	-1.67	-16.03	-8.65	-28.62	5.31
	-34.40	-3.87	-26.72	-14.96	-47.70	7.21
	-48.17	-6.08	-37.41	-21.28	-66.78	9.11
	-61.93	-8.29	-48.10	-27.59	-85.86	11.01
	-75.69	-10.49	-58.78	-33.90	-104.94	12.92
	-89.45	-12.70	-69.47	-40.22	-124.01	14.82
	-103.21	-14.91	-80.16	-46.53	-143.09	16.72
	-116.97	-17.11	-90.85	-52.84	-162.17	18.62
	-130.73	-19.32	-101.53	-59.16	-181.25	20.52
	1.10	6.88	3.16	5.34	-0.95	9.54
	1.16	6.94	3.22	5.40	-0.89	9.62
	-131.88	-23.78	-102.68	-61.96	-182.80	14.40
	-118.00	-21.46	-91.88	-55.53	-163.56	12.62
	-104.12	-19.13	-81.07	-49.10	-144.32	10.84
	-90.24	-16.80	-70.26	-42.66	-125.08	9.06
	-76.35	-14.47	-59.45	-36.23	-105.83	7.28
	-62.47	-12.14	-48.64	-29.79	-86.59	5.50
	-48.59	-9.82	-37.83	-23.36	-67.35	3.72
	-34.71	-7.49	-27.02	-16.92	-48.11	1.94
	-20.82	-5.16	-16.21	-10.49	-28.86	0.16
	-6.94	-2.83	-5.40	-4.05	-9.62	-1.61
	0.00	0.00	0.00	0.00	0.00	0.00

	-6.94	0.51	-5.40	-2.38	-9.62	3.39
	-20.82	-1.82	-16.21	-8.82	-28.86	5.17
	-34.71	-4.15	-27.02	-15.25	-48.11	6.95
	-48.59	-6.48	-37.83	-21.69	-67.35	8.73
	-62.47	-8.81	-48.64	-28.12	-86.59	10.51
	-76.35	-11.13	-59.45	-34.56	-105.83	12.29
	-90.24	-13.46	-70.26	-40.99	-125.08	14.07
	-104.12	-15.79	-81.07	-47.43	-144.32	15.85
	-118.00	-18.12	-91.88	-53.86	-163.56	17.63
	-131.88	-20.45	-102.68	-60.30	-182.80	19.41
	1.16	6.94	3.22	5.40	-0.89	9.62
	1.18	6.96	3.23	5.42	-0.88	9.64
	-132.15	-24.08	-102.95	-62.25	-183.17	14.09
	-118.24	-21.72	-92.12	-55.78	-163.89	12.34
	-104.33	-19.37	-81.28	-49.32	-144.61	10.59
	-90.42	-17.01	-70.44	-42.86	-125.32	8.84
	-76.51	-14.65	-59.60	-36.39	-106.04	7.09
	-62.60	-12.30	-48.77	-29.93	-86.76	5.33
	-48.69	-9.94	-37.93	-23.47	-67.48	3.58
	-34.78	-7.59	-27.09	-17.01	-48.20	1.83
	-20.87	-5.23	-16.26	-10.54	-28.92	0.08
	-6.96	-2.87	-5.42	-4.08	-9.64	-1.67
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.96	0.52	-5.42	-2.38	-9.64	3.42
	-20.87	-1.84	-16.26	-8.85	-28.92	5.17
	-34.78	-4.19	-27.09	-15.31	-48.20	6.92
	-48.69	-6.55	-37.93	-21.77	-67.48	8.67
	-62.60	-8.91	-48.77	-28.24	-86.76	10.42
	-76.51	-11.26	-59.60	-34.70	-106.04	12.17
	-90.42	-13.62	-70.44	-41.16	-125.32	13.92
	-104.33	-15.98	-81.28	-47.62	-144.61	15.67
	-118.24	-18.33	-92.12	-54.09	-163.89	17.43
	-132.15	-20.69	-102.95	-60.55	-183.17	19.18
	1.18	6.96	3.23	5.42	-0.88	9.64
	1.19	6.97	3.25	5.43	-0.86	9.66
	-132.42	-24.37	-103.22	-62.53	-183.53	13.78
	-118.48	-21.99	-92.36	-56.04	-164.21	12.06
	-104.54	-19.61	-81.49	-49.55	-144.89	10.33
	-90.60	-17.22	-70.63	-43.05	-125.57	8.61
	-76.67	-14.84	-59.76	-36.56	-106.25	6.89
	-62.73	-12.45	-48.89	-30.07	-86.94	5.17
	-48.79	-10.07	-38.03	-23.58	-67.62	3.44
	-34.85	-7.68	-27.16	-17.09	-48.30	1.72
	-20.91	-5.30	-16.30	-10.60	-28.98	0.00
	-6.97	-2.91	-5.43	-4.11	-9.66	-1.72

	0.00	0.00	0.00	0.00	0.00	0.00
	-6.97	0.53	-5.43	-2.38	-9.66	3.44
	-20.91	-1.85	-16.30	-8.88	-28.98	5.17
	-34.85	-4.24	-27.16	-15.37	-48.30	6.89
	-48.79	-6.62	-38.03	-21.86	-67.62	8.61
	-62.73	-9.01	-48.89	-28.35	-86.94	10.33
	-76.67	-11.39	-59.76	-34.84	-106.25	12.06
	-90.60	-13.78	-70.63	-41.33	-125.57	13.78
	-104.54	-16.16	-81.49	-47.82	-144.89	15.50
	-118.48	-18.55	-92.36	-54.32	-164.21	17.22
	-132.42	-20.93	-103.22	-60.81	-183.53	18.95
	1.19	6.97	3.25	5.43	-0.86	9.66
	1.21	6.98	3.26	5.45	-0.85	9.68
	-132.69	-24.67	-103.49	-62.81	-183.89	13.47
	-118.72	-22.26	-92.60	-56.29	-164.54	11.78
	-104.76	-19.84	-81.70	-49.77	-145.18	10.08
	-90.79	-17.43	-70.81	-43.25	-125.82	8.39
	-76.82	-15.02	-59.92	-36.73	-106.46	6.69
	-62.85	-12.61	-49.02	-30.21	-87.11	5.00
	-48.89	-10.19	-38.13	-23.69	-67.75	3.31
	-34.92	-7.78	-27.23	-17.17	-48.39	1.61
	-20.95	-5.37	-16.34	-10.65	-29.04	-0.08
	-6.98	-2.96	-5.45	-4.13	-9.68	-1.78
	0.00	0.00	0.00	0.00	0.00	0.00
	-6.98	0.54	-5.45	-2.39	-9.68	3.47
	-20.95	-1.87	-16.34	-8.91	-29.04	5.16
	-34.92	-4.28	-27.23	-15.42	-48.39	6.86
	-48.89	-6.70	-38.13	-21.94	-67.75	8.55
	-62.85	-9.11	-49.02	-28.46	-87.11	10.25
	-76.82	-11.52	-59.92	-34.98	-106.46	11.94
	-90.79	-13.93	-70.81	-41.50	-125.82	13.64
	-104.76	-16.35	-81.70	-48.02	-145.18	15.33
	-118.72	-18.76	-92.60	-54.54	-164.54	17.02
	-132.69	-21.17	-103.49	-61.06	-183.89	18.72
	1.21	6.98	3.26	5.45	-0.85	9.68
	1.27	7.05	3.32	5.51	-0.78	9.76
	-133.90	-25.91	-104.70	-64.04	-185.53	12.22
	-119.81	-23.37	-93.68	-57.39	-166.00	10.65
	-105.71	-20.83	-82.66	-50.74	-146.47	9.09
	-91.62	-18.29	-71.64	-44.09	-126.94	7.52
	-77.52	-15.75	-60.62	-37.45	-107.41	5.95
	-63.43	-13.21	-49.60	-30.80	-87.88	4.39
	-49.33	-10.67	-38.57	-24.15	-68.35	2.82
	-35.24	-8.13	-27.55	-17.51	-48.82	1.25
	-21.14	-5.59	-16.53	-10.86	-29.29	-0.31

	-7.05	-3.05	-5.51	-4.21	-9.76	-1.88
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.05	0.51	-5.51	-2.44	-9.76	3.45
	-21.14	-2.04	-16.53	-9.08	-29.29	5.01
	-35.24	-4.58	-27.55	-15.73	-48.82	6.58
	-49.33	-7.12	-38.57	-22.38	-68.35	8.15
	-63.43	-9.66	-49.60	-29.02	-87.88	9.71
	-77.52	-12.20	-60.62	-35.67	-107.41	11.28
	-91.62	-14.74	-71.64	-42.32	-126.94	12.85
	-105.71	-17.28	-82.66	-48.97	-146.47	14.41
	-119.81	-19.82	-93.68	-55.61	-166.00	15.98
	-133.90	-22.36	-104.70	-62.26	-185.53	17.55
	1.27	7.05	3.32	5.51	-0.78	9.76
	1.29	7.06	3.34	5.53	-0.77	9.78
	-134.19	-26.22	-104.99	-64.33	-185.91	11.90
	-120.06	-23.65	-93.93	-57.65	-166.34	10.36
	-105.94	-21.08	-82.88	-50.98	-146.77	8.82
	-91.81	-18.51	-71.83	-44.30	-127.20	7.29
	-77.69	-15.94	-60.78	-37.62	-107.63	5.75
	-63.56	-13.37	-49.73	-30.95	-88.06	4.21
	-49.44	-10.80	-38.68	-24.27	-68.49	2.68
	-35.31	-8.23	-27.63	-17.59	-48.92	1.14
	-21.19	-5.66	-16.58	-10.92	-29.35	-0.40
	-7.06	-3.09	-5.53	-4.24	-9.78	-1.93
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.06	0.52	-5.53	-2.44	-9.78	3.47
	-21.19	-2.05	-16.58	-9.11	-29.35	5.01
	-35.31	-4.62	-27.63	-15.79	-48.92	6.55
	-49.44	-7.19	-38.68	-22.47	-68.49	8.08
	-63.56	-9.76	-49.73	-29.15	-88.06	9.62
	-77.69	-12.33	-60.78	-35.82	-107.63	11.16
	-91.81	-14.90	-71.83	-42.50	-127.20	12.69
	-105.94	-17.47	-82.88	-49.18	-146.77	14.23
	-120.06	-20.04	-93.93	-55.85	-166.34	15.77
	-134.19	-22.61	-104.99	-62.53	-185.91	17.30
	1.29	7.06	3.34	5.53	-0.77	9.78
	1.30	7.08	3.35	5.54	-0.75	9.80
	-134.47	-26.53	-105.27	-64.63	-186.29	11.57
	-120.31	-23.93	-94.19	-57.92	-166.68	10.07
	-106.16	-21.33	-83.11	-51.21	-147.07	8.56
	-92.00	-18.73	-72.03	-44.51	-127.46	7.05
	-77.85	-16.13	-60.94	-37.80	-107.85	5.55
	-63.70	-13.53	-49.86	-31.09	-88.24	4.04
	-49.54	-10.93	-38.78	-24.39	-68.63	2.53
	-35.39	-8.33	-27.70	-17.68	-49.02	1.03

	-21.23	-5.73	-16.62	-10.97	-29.41	-0.48
	-7.08	-3.13	-5.54	-4.27	-9.80	-1.99
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.08	0.53	-5.54	-2.44	-9.80	3.50
	-21.23	-2.07	-16.62	-9.15	-29.41	5.00
	-35.39	-4.67	-27.70	-15.85	-49.02	6.51
	-49.54	-7.27	-38.78	-22.56	-68.63	8.02
	-63.70	-9.87	-49.86	-29.27	-88.24	9.52
	-77.85	-12.47	-60.94	-35.97	-107.85	11.03
	-92.00	-15.07	-72.03	-42.68	-127.46	12.54
	-106.16	-17.67	-83.11	-49.39	-147.07	14.05
	-120.31	-20.27	-94.19	-56.09	-166.68	15.55
	-134.47	-22.87	-105.27	-62.80	-186.29	17.06
	1.30	7.08	3.35	5.54	-0.75	9.80
	1.32	7.10	3.37	5.56	-0.73	9.83
	-134.84	-26.92	-105.64	-65.01	-186.79	11.16
	-120.65	-24.29	-94.52	-58.27	-167.13	9.70
	-106.45	-21.65	-83.40	-51.52	-147.47	8.23
	-92.26	-19.01	-72.28	-44.78	-127.81	6.76
	-78.06	-16.37	-61.16	-38.03	-108.14	5.29
	-63.87	-13.73	-50.04	-31.28	-88.48	3.82
	-49.68	-11.09	-38.92	-24.54	-68.82	2.36
	-35.48	-8.45	-27.80	-17.79	-49.16	0.89
	-21.29	-5.81	-16.68	-11.05	-29.49	-0.58
	-7.10	-3.17	-5.56	-4.30	-9.83	-2.05
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.10	0.54	-5.56	-2.45	-9.83	3.52
	-21.29	-2.10	-16.68	-9.19	-29.49	4.98
	-35.48	-4.74	-27.80	-15.94	-49.16	6.45
	-49.68	-7.38	-38.92	-22.68	-68.82	7.92
	-63.87	-10.02	-50.04	-29.43	-88.48	9.39
	-78.06	-12.66	-61.16	-36.17	-108.14	10.86
	-92.26	-15.30	-72.28	-42.92	-127.81	12.32
	-106.45	-17.94	-83.40	-49.67	-147.47	13.79
	-120.65	-20.58	-94.52	-56.41	-167.13	15.26
	-134.84	-23.21	-105.64	-63.16	-186.79	16.73
	1.32	7.10	3.37	5.56	-0.73	9.83
	1.33	7.11	3.39	5.57	-0.72	9.85
	-135.12	-27.23	-105.92	-65.31	-187.18	10.84
	-120.90	-24.57	-94.77	-58.53	-167.47	9.40
	-106.68	-21.90	-83.62	-51.76	-147.77	7.96
	-92.45	-19.23	-72.47	-44.98	-128.07	6.53
	-78.23	-16.56	-61.32	-38.21	-108.37	5.09
	-64.01	-13.89	-50.17	-31.43	-88.66	3.65
	-49.78	-11.22	-39.02	-24.66	-68.96	2.21

	-35.56	-8.55	-27.87	-17.88	-49.26	0.77
	-21.34	-5.88	-16.72	-11.10	-29.55	-0.67
	-7.11	-3.22	-5.57	-4.33	-9.85	-2.10
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.11	0.55	-5.57	-2.45	-9.85	3.54
	-21.34	-2.12	-16.72	-9.22	-29.55	4.98
	-35.56	-4.79	-27.87	-16.00	-49.26	6.42
	-49.78	-7.46	-39.02	-22.77	-68.96	7.86
	-64.01	-10.13	-50.17	-29.55	-88.66	9.29
	-78.23	-12.80	-61.32	-36.33	-108.37	10.73
	-92.45	-15.47	-72.47	-43.10	-128.07	12.17
	-106.68	-18.13	-83.62	-49.88	-147.77	13.61
	-120.90	-20.80	-94.77	-56.65	-167.47	15.05
	-135.12	-23.47	-105.92	-63.43	-187.18	16.48
	1.33	7.11	3.39	5.57	-0.72	9.85
	1.35	7.13	3.40	5.59	-0.70	9.87
	-135.41	-27.55	-106.21	-65.61	-187.56	10.52
	-121.15	-24.85	-95.03	-58.80	-167.82	9.11
	-106.90	-22.15	-83.85	-52.00	-148.07	7.70
	-92.65	-19.45	-72.67	-45.19	-128.33	6.29
	-78.39	-16.75	-61.49	-38.38	-108.59	4.88
	-64.14	-14.05	-50.31	-31.58	-88.84	3.47
	-49.89	-11.35	-39.13	-24.77	-69.10	2.07
	-35.63	-8.65	-27.95	-17.97	-49.36	0.66
	-21.38	-5.96	-16.77	-11.16	-29.61	-0.75
	-7.13	-3.26	-5.59	-4.36	-9.87	-2.16
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.13	0.56	-5.59	-2.45	-9.87	3.57
	-21.38	-2.14	-16.77	-9.25	-29.61	4.97
	-35.63	-4.84	-27.95	-16.06	-49.36	6.38
	-49.89	-7.54	-39.13	-22.87	-69.10	7.79
	-64.14	-10.24	-50.31	-29.67	-88.84	9.20
	-78.39	-12.93	-61.49	-36.48	-108.59	10.61
	-92.65	-15.63	-72.67	-43.28	-128.33	12.02
	-106.90	-18.33	-83.85	-50.09	-148.07	13.42
	-121.15	-21.03	-95.03	-56.89	-167.82	14.83
	-135.41	-23.73	-106.21	-63.70	-187.56	16.24
	1.35	7.13	3.40	5.59	-0.70	9.87
	1.36	7.14	3.42	5.60	-0.69	9.89
	-135.69	-27.86	-106.49	-65.91	-187.94	10.19
	-121.41	-25.13	-95.28	-59.07	-168.16	8.81
	-107.13	-22.40	-84.07	-52.23	-148.38	7.43
	-92.84	-19.67	-72.86	-45.40	-128.59	6.06
	-78.56	-16.94	-61.65	-38.56	-108.81	4.68
	-64.28	-14.21	-50.44	-31.73	-89.03	3.30

	-49.99	-11.48	-39.23	-24.89	-69.24	1.92
	-35.71	-8.76	-28.02	-18.06	-49.46	0.54
	-21.43	-6.03	-16.81	-11.22	-29.68	-0.83
	-7.14	-3.30	-5.60	-4.39	-9.89	-2.21
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.14	0.57	-5.60	-2.45	-9.89	3.59
	-21.43	-2.16	-16.81	-9.29	-29.68	4.97
	-35.71	-4.89	-28.02	-16.12	-49.46	6.35
	-49.99	-7.62	-39.23	-22.96	-69.24	7.73
	-64.28	-10.34	-50.44	-29.79	-89.03	9.10
	-78.56	-13.07	-61.65	-36.63	-108.81	10.48
	-92.84	-15.80	-72.86	-43.46	-128.59	11.86
	-107.13	-18.53	-84.07	-50.30	-148.38	13.24
	-121.41	-21.26	-95.28	-57.14	-168.16	14.62
	-135.69	-23.99	-106.49	-63.97	-187.94	15.99
	1.36	7.14	3.42	5.60	-0.69	9.89
	1.38	7.16	3.43	5.62	-0.67	9.91
	-135.98	-28.17	-106.78	-66.20	-188.33	9.87
	-121.66	-25.41	-95.54	-59.34	-168.51	8.52
	-107.35	-22.65	-84.30	-52.47	-148.68	7.17
	-93.04	-19.89	-73.06	-45.61	-128.86	5.82
	-78.72	-17.13	-61.82	-38.74	-109.03	4.47
	-64.41	-14.37	-50.58	-31.88	-89.21	3.13
	-50.10	-11.62	-39.34	-25.01	-69.38	1.78
	-35.78	-8.86	-28.10	-18.14	-49.56	0.43
	-21.47	-6.10	-16.86	-11.28	-29.74	-0.92
	-7.16	-3.34	-5.62	-4.41	-9.91	-2.27
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.16	0.58	-5.62	-2.45	-9.91	3.62
	-21.47	-2.18	-16.86	-9.32	-29.74	4.96
	-35.78	-4.94	-28.10	-16.18	-49.56	6.31
	-50.10	-7.69	-39.34	-23.05	-69.38	7.66
	-64.41	-10.45	-50.58	-29.91	-89.21	9.01
	-78.72	-13.21	-61.82	-36.78	-109.03	10.36
	-93.04	-15.97	-73.06	-43.65	-128.86	11.71
	-107.35	-18.73	-84.30	-50.51	-148.68	13.05
	-121.66	-21.49	-95.54	-57.38	-168.51	14.40
	-135.98	-24.25	-106.78	-64.24	-188.33	15.75
	1.38	7.16	3.43	5.62	-0.67	9.91
	1.39	7.17	3.45	5.63	-0.66	9.93
	-136.26	-28.48	-107.06	-66.50	-188.71	9.54
	-121.92	-25.69	-95.79	-59.61	-168.85	8.22
	-107.58	-22.90	-84.52	-52.71	-148.99	6.91
	-93.23	-20.11	-73.25	-45.81	-129.12	5.59
	-78.89	-17.33	-61.98	-38.92	-109.26	4.27

	-64.55	-14.54	-50.71	-32.02	-89.39	2.95
	-50.20	-11.75	-39.44	-25.13	-69.53	1.63
	-35.86	-8.96	-28.17	-18.23	-49.66	0.31
	-21.52	-6.17	-16.90	-11.34	-29.80	-1.00
	-7.17	-3.38	-5.63	-4.44	-9.93	-2.32
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	-7.17	0.59	-5.63	-2.45	-9.93	3.64
	-21.52	-2.20	-16.90	-9.35	-29.80	4.96
	-35.86	-4.98	-28.17	-16.25	-49.66	6.28
	-50.20	-7.77	-39.44	-23.14	-69.53	7.60
	-64.55	-10.56	-50.71	-30.04	-89.39	8.91
	-78.89	-13.35	-61.98	-36.93	-109.26	10.23
	-93.23	-16.14	-73.25	-43.83	-129.12	11.55
	-107.58	-18.93	-84.52	-50.72	-148.99	12.87
	-121.92	-21.72	-95.79	-57.62	-168.85	14.19
	-136.26	-24.50	-107.06	-64.51	-188.71	15.50
	1.39	7.17	3.45	5.63	-0.66	9.93
	1.41	7.19	3.46	5.65	-0.64	9.95
3.80	-136.55	-28.79	-107.35	-66.80	-189.10	9.22
	-122.17	-25.97	-96.05	-59.87	-169.19	7.93
	-107.80	-23.15	-84.75	-52.95	-149.29	6.64
	-93.43	-20.34	-73.45	-46.02	-129.38	5.35
	-79.05	-17.52	-62.15	-39.10	-109.48	4.06
	-64.68	-14.70	-50.85	-32.17	-89.57	2.78
	-50.31	-11.88	-39.55	-25.25	-69.67	1.49
	-35.93	-9.06	-28.25	-18.32	-49.76	0.20
	-21.56	-6.24	-16.95	-11.40	-29.86	-1.09
	-7.19	-3.42	-5.65	-4.47	-9.95	-2.38
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.19	0.60	-5.65	-2.46	-9.95	3.67
	-21.56	-2.21	-16.95	-9.38	-29.86	4.95
	-35.93	-5.03	-28.25	-16.31	-49.76	6.24
	-50.31	-7.85	-39.55	-23.23	-69.67	7.53
	-64.68	-10.67	-50.85	-30.16	-89.57	8.82
	-79.05	-13.49	-62.15	-37.08	-109.48	10.11
	-93.43	-16.31	-73.45	-44.01	-129.38	11.39
	-107.80	-19.13	-84.75	-50.93	-149.29	12.68
	-122.17	-21.94	-96.05	-57.86	-169.19	13.97
	-136.55	-24.76	-107.35	-64.79	-189.10	15.26
	1.41	7.19	3.46	5.65	-0.64	9.95
	1.42	7.20	3.48	5.66	-0.63	9.97
3.85	-136.83	-29.10	-107.63	-67.10	-189.49	8.89
	-122.43	-26.25	-96.30	-60.14	-169.54	7.63
	-108.03	-23.41	-84.97	-53.19	-149.59	6.38
	-93.62	-20.56	-73.64	-46.23	-129.65	5.12

	-79.22	-17.71	-62.31	-39.28	-109.70	3.86
	-64.82	-14.86	-50.98	-32.32	-89.76	2.60
	-50.41	-12.01	-39.65	-25.37	-69.81	1.34
	-36.01	-9.16	-28.32	-18.41	-49.86	0.08
	-21.61	-6.31	-16.99	-11.45	-29.92	-1.17
	-7.20	-3.46	-5.66	-4.50	-9.97	-2.43
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.20	0.62	-5.66	-2.46	-9.97	3.69
	-21.61	-2.23	-16.99	-9.41	-29.92	4.95
	-36.01	-5.08	-28.32	-16.37	-49.86	6.21
	-50.41	-7.93	-39.65	-23.32	-69.81	7.46
	-64.82	-10.78	-50.98	-30.28	-89.76	8.72
	-79.22	-13.63	-62.31	-37.24	-109.70	9.98
	-93.62	-16.48	-73.64	-44.19	-129.65	11.24
	-108.03	-19.33	-84.97	-51.15	-149.59	12.50
	-122.43	-22.17	-96.30	-58.10	-169.54	13.75
	-136.83	-25.02	-107.63	-65.06	-189.49	15.01
	1.42	7.20	3.48	5.66	-0.63	9.97
	1.50	7.28	3.55	5.74	-0.55	10.08
	-138.29	-30.59	-109.09	-68.57	-191.46	7.39
	-123.74	-27.59	-97.61	-61.46	-171.30	6.29
	-109.18	-24.59	-86.13	-54.35	-151.15	5.18
	-94.62	-21.58	-74.64	-47.24	-131.00	4.08
	-80.06	-18.58	-63.16	-40.14	-110.84	2.97
	-65.51	-15.58	-51.68	-33.03	-90.69	1.87
	-50.95	-12.58	-40.19	-25.92	-70.54	0.76
	-36.39	-9.57	-28.71	-18.81	-50.38	-0.34
	-21.84	-6.57	-17.23	-11.70	-30.23	-1.44
	-7.28	-3.57	-5.74	-4.59	-10.08	-2.55
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.28	0.57	-5.74	-2.52	-10.08	3.65
	-21.84	-2.44	-17.23	-9.63	-30.23	4.76
	-36.39	-5.44	-28.71	-16.74	-50.38	5.86
	-50.95	-8.44	-40.19	-23.85	-70.54	6.97
	-65.51	-11.44	-51.68	-30.96	-90.69	8.07
	-80.06	-14.45	-63.16	-38.07	-110.84	9.17
	-94.62	-17.45	-74.64	-45.18	-131.00	10.28
	-109.18	-20.45	-86.13	-52.29	-151.15	11.38
	-123.74	-23.45	-97.61	-59.40	-171.30	12.49
	-138.29	-26.46	-109.09	-66.51	-191.46	13.59
	1.50	7.28	3.55	5.74	-0.55	10.08
	1.52	7.29	3.57	5.76	-0.54	10.10
	-138.59	-30.92	-109.39	-68.89	-191.86	7.05
	-124.00	-27.88	-97.88	-61.74	-171.67	5.98
	-109.42	-24.85	-86.36	-54.60	-151.47	4.91

	-94.83	-21.81	-74.85	-47.46	-131.27	3.83
	-80.24	-18.78	-63.33	-40.32	-111.08	2.76
	-65.65	-15.75	-51.82	-33.18	-90.88	1.69
	-51.06	-12.71	-40.30	-26.04	-70.69	0.61
	-36.47	-9.68	-28.79	-18.90	-50.49	-0.46
	-21.88	-6.64	-17.27	-11.76	-30.29	-1.53
	-7.29	-3.61	-5.76	-4.62	-10.10	-2.60
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	-7.29	0.58	-5.76	-2.52	-10.10	3.68
	-21.88	-2.46	-17.27	-9.66	-30.29	4.75
	-36.47	-5.49	-28.79	-16.81	-50.49	5.82
	-51.06	-8.53	-40.30	-23.95	-70.69	6.90
	-65.65	-11.56	-51.82	-31.09	-90.88	7.97
	-80.24	-14.59	-63.33	-38.23	-111.08	9.04
	-94.83	-17.63	-74.85	-45.37	-131.27	10.11
	-109.42	-20.66	-86.36	-52.51	-151.47	11.19
	-124.00	-23.70	-97.88	-59.65	-171.67	12.26
	-138.59	-26.73	-109.39	-66.79	-191.86	13.33
	1.52	7.29	3.57	5.76	-0.54	10.10
	1.53	7.31	3.59	5.77	-0.52	10.12
	-138.89	-31.24	-109.69	-69.20	-192.27	6.71
	-124.27	-28.18	-98.15	-62.03	-172.03	5.67
	-109.65	-25.11	-86.60	-54.85	-151.79	4.63
	-95.03	-22.05	-75.05	-47.68	-131.55	3.59
	-80.41	-18.98	-63.51	-40.51	-111.31	2.55
	-65.79	-15.92	-51.96	-33.34	-91.07	1.51
	-51.17	-12.85	-40.41	-26.16	-70.83	0.46
	-36.55	-9.78	-28.87	-18.99	-50.60	-0.58
	-21.93	-6.72	-17.32	-11.82	-30.36	-1.62
	-7.31	-3.65	-5.77	-4.65	-10.12	-2.66
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.31	0.59	-5.77	-2.53	-10.12	3.70
	-21.93	-2.48	-17.32	-9.70	-30.36	4.74
	-36.55	-5.54	-28.87	-16.87	-50.60	5.78
	-51.17	-8.61	-40.41	-24.04	-70.83	6.82
	-65.79	-11.68	-51.96	-31.22	-91.07	7.87
	-80.41	-14.74	-63.51	-38.39	-111.31	8.91
	-95.03	-17.81	-75.05	-45.56	-131.55	9.95
	-109.65	-20.87	-86.60	-52.73	-151.79	10.99
	-124.27	-23.94	-98.15	-59.91	-172.03	12.03
	-138.89	-27.00	-109.69	-67.08	-192.27	13.07
	1.53	7.31	3.59	5.77	-0.52	10.12
	1.55	7.33	3.60	5.79	-0.50	10.14
	-139.19	-31.57	-109.99	-69.51	-192.67	6.37
	-124.54	-28.47	-98.41	-62.31	-172.39	5.36

	-109.89	-25.38	-86.84	-55.10	-152.11	4.35
	-95.24	-22.28	-75.26	-47.90	-131.83	3.34
	-80.59	-19.18	-63.68	-40.70	-111.55	2.33
	-65.93	-16.08	-52.10	-33.49	-91.27	1.32
	-51.28	-12.99	-40.52	-26.29	-70.98	0.31
	-36.63	-9.89	-28.95	-19.08	-50.70	-0.70
	-21.98	-6.79	-17.37	-11.88	-30.42	-1.71
	-7.33	-3.70	-5.79	-4.68	-10.14	-2.71
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.33	0.60	-5.79	-2.53	-10.14	3.72
	-21.98	-2.50	-17.37	-9.73	-30.42	4.73
	-36.63	-5.60	-28.95	-16.94	-50.70	5.74
	-51.28	-8.69	-40.52	-24.14	-70.98	6.75
	-65.93	-11.79	-52.10	-31.35	-91.27	7.76
	-80.59	-14.89	-63.68	-38.55	-111.55	8.77
	-95.24	-17.99	-75.26	-45.75	-131.83	9.78
	-109.89	-21.08	-86.84	-52.96	-152.11	10.79
	-124.54	-24.18	-98.41	-60.16	-172.39	11.80
	-139.19	-27.28	-109.99	-67.37	-192.67	12.81
	1.55	7.33	3.60	5.79	-0.50	10.14
	1.63	7.41	3.68	5.87	-0.42	10.25
4.10	-140.72	-33.13	-111.52	-71.05	-194.74	4.80
	-125.91	-29.87	-99.78	-63.69	-174.24	3.95
	-111.10	-26.61	-88.04	-56.32	-153.74	3.11
	-96.28	-23.35	-76.30	-48.96	-133.24	2.26
	-81.47	-20.09	-64.57	-41.59	-112.74	1.41
	-66.66	-16.83	-52.83	-34.23	-92.24	0.56
	-51.84	-13.58	-41.09	-26.86	-71.74	-0.29
	-37.03	-10.32	-29.35	-19.50	-51.25	-1.14
	-22.22	-7.06	-17.61	-12.13	-30.75	-1.99
	-7.41	-3.80	-5.87	-4.77	-10.25	-2.84
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.41	0.54	-5.87	-2.60	-10.25	3.68
	-22.22	-2.71	-17.61	-9.96	-30.75	4.53
	-37.03	-5.97	-29.35	-17.33	-51.25	5.38
	-51.84	-9.23	-41.09	-24.69	-71.74	6.23
	-66.66	-12.49	-52.83	-32.06	-92.24	7.08
	-81.47	-15.75	-64.57	-39.42	-112.74	7.93
	-96.28	-19.00	-76.30	-46.79	-133.24	8.78
	-111.10	-22.26	-88.04	-54.15	-153.74	9.63
	-125.91	-25.52	-99.78	-61.52	-174.24	10.47
	-140.72	-28.78	-111.52	-68.88	-194.74	11.32
	1.63	7.41	3.68	5.87	-0.42	10.25
4.15	1.65	7.42	3.70	5.89	-0.41	10.27
	-141.04	-33.47	-111.84	-71.38	-195.16	4.45

	-126.19	-30.17	-100.06	-63.98	-174.62	3.63
	-111.34	-26.88	-88.29	-56.59	-154.07	2.82
	-96.50	-23.59	-76.52	-49.19	-133.53	2.00
	-81.65	-20.30	-64.75	-41.79	-112.99	1.19
	-66.81	-17.01	-52.98	-34.39	-92.44	0.37
	-51.96	-13.72	-41.20	-26.99	-71.90	-0.44
	-37.11	-10.43	-29.43	-19.59	-51.36	-1.26
	-22.27	-7.14	-17.66	-12.20	-30.81	-2.08
	-7.42	-3.85	-5.89	-4.80	-10.27	-2.89
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.42	0.55	-5.89	-2.60	-10.27	3.71
	-22.27	-2.74	-17.66	-10.00	-30.81	4.52
	-37.11	-6.03	-29.43	-17.40	-51.36	5.34
	-51.96	-9.32	-41.20	-24.79	-71.90	6.15
	-66.81	-12.61	-52.98	-32.19	-92.44	6.97
	-81.65	-15.90	-64.75	-39.59	-112.99	7.79
	-96.50	-19.19	-76.52	-46.99	-133.53	8.60
	-111.34	-22.48	-88.29	-54.39	-154.07	9.42
	-126.19	-25.78	-100.06	-61.78	-174.62	10.23
	-141.04	-29.07	-111.84	-69.18	-195.16	11.05
	1.65	7.42	3.70	5.89	-0.41	10.27
	1.66	7.44	3.72	5.90	-0.39	10.29
	-141.35	-33.81	-112.15	-71.71	-195.58	4.10
	-126.47	-30.48	-100.35	-64.28	-175.00	3.31
	-111.59	-27.16	-88.54	-56.85	-154.41	2.53
	-96.71	-23.83	-76.73	-49.42	-133.82	1.75
	-81.83	-20.51	-64.93	-41.98	-113.23	0.97
	-66.96	-17.19	-53.12	-34.55	-92.64	0.18
	-52.08	-13.86	-41.32	-27.12	-72.06	-0.60
	-37.20	-10.54	-29.51	-19.69	-51.47	-1.38
	-22.32	-7.21	-17.71	-12.26	-30.88	-2.17
	-7.44	-3.89	-5.90	-4.83	-10.29	-2.95
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.44	0.56	-5.90	-2.60	-10.29	3.73
	-22.32	-2.76	-17.71	-10.03	-30.88	4.51
	-37.20	-6.08	-29.51	-17.46	-51.47	5.30
	-52.08	-9.41	-41.32	-24.90	-72.06	6.08
	-66.96	-12.73	-53.12	-32.33	-92.64	6.86
	-81.83	-16.06	-64.93	-39.76	-113.23	7.64
	-96.71	-19.38	-76.73	-47.19	-133.82	8.43
	-111.59	-22.71	-88.54	-54.62	-154.41	9.21
	-126.47	-26.03	-100.35	-62.05	-175.00	9.99
	-141.35	-29.35	-112.15	-69.48	-195.58	10.77
	1.66	7.44	3.72	5.90	-0.39	10.29
4.25	1.68	7.46	3.74	5.92	-0.37	10.32

	-141.77	-34.25	-112.57	-72.14	-196.15	3.64
	-126.85	-30.88	-100.72	-64.67	-175.50	2.90
	-111.92	-27.52	-88.87	-57.19	-154.86	2.16
	-97.00	-24.15	-77.02	-49.72	-134.21	1.42
	-82.08	-20.78	-65.17	-42.24	-113.56	0.68
	-67.15	-17.41	-53.32	-34.77	-92.91	-0.06
	-52.23	-14.04	-41.47	-27.29	-72.27	-0.79
	-37.31	-10.67	-29.62	-19.81	-51.62	-1.53
	-22.38	-7.31	-17.77	-12.34	-30.97	-2.27
	-7.46	-3.94	-5.92	-4.86	-10.32	-3.01
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.46	0.57	-5.92	-2.61	-10.32	3.75
	-22.38	-2.80	-17.77	-10.09	-30.97	4.49
	-37.31	-6.17	-29.62	-17.56	-51.62	5.22
	-52.23	-9.54	-41.47	-25.04	-72.27	5.96
	-67.15	-12.91	-53.32	-32.51	-92.91	6.70
	-82.08	-16.27	-65.17	-39.99	-113.56	7.44
	-97.00	-19.64	-77.02	-47.46	-134.21	8.18
	-111.92	-23.01	-88.87	-54.94	-154.86	8.92
	-126.85	-26.38	-100.72	-62.41	-175.50	9.66
	-141.77	-29.75	-112.57	-69.89	-196.15	10.39
	1.68	7.46	3.74	5.92	-0.37	10.32
	1.70	7.48	3.75	5.94	-0.35	10.35
	-142.09	-34.60	-112.89	-72.47	-196.58	3.28
	-127.13	-31.19	-101.00	-64.96	-175.88	2.58
	-112.17	-27.79	-89.12	-57.45	-155.19	1.87
	-97.22	-24.39	-77.24	-49.95	-134.50	1.17
	-82.26	-20.99	-65.36	-42.44	-113.81	0.46
	-67.30	-17.59	-53.47	-34.93	-93.12	-0.25
	-52.35	-14.19	-41.59	-27.42	-72.42	-0.95
	-37.39	-10.78	-29.71	-19.91	-51.73	-1.66
	-22.43	-7.38	-17.82	-12.40	-31.04	-2.36
	-7.48	-3.98	-5.94	-4.89	-10.35	-3.07
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.48	0.58	-5.94	-2.61	-10.35	3.77
	-22.43	-2.82	-17.82	-10.12	-31.04	4.48
	-37.39	-6.23	-29.71	-17.63	-51.73	5.18
	-52.35	-9.63	-41.59	-25.14	-72.42	5.89
	-67.30	-13.03	-53.47	-32.65	-93.12	6.59
	-82.26	-16.43	-65.36	-40.16	-113.81	7.30
	-97.22	-19.83	-77.24	-47.67	-134.50	8.00
	-112.17	-23.23	-89.12	-55.18	-155.19	8.71
	-127.13	-26.64	-101.00	-62.68	-175.88	9.41
	-142.09	-30.04	-112.89	-70.19	-196.58	10.12
	1.70	7.48	3.75	5.94	-0.35	10.35

4.30

4.35	1.72	7.49	3.77	5.96	-0.34	10.37
	-142.40	-34.94	-113.20	-72.80	-197.00	2.93
	-127.41	-31.50	-101.29	-65.26	-176.27	2.25
	-112.42	-28.07	-89.37	-57.72	-155.53	1.58
	-97.43	-24.63	-77.45	-50.17	-134.79	0.91
	-82.44	-21.20	-65.54	-42.63	-114.05	0.24
	-67.45	-17.76	-53.62	-35.09	-93.32	-0.43
	-52.46	-14.33	-41.71	-27.55	-72.58	-1.11
	-37.47	-10.89	-29.79	-20.01	-51.84	-1.78
	-22.48	-7.46	-17.87	-12.47	-31.11	-2.45
	-7.49	-4.02	-5.96	-4.92	-10.37	-3.12
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.49	0.59	-5.96	-2.62	-10.37	3.79
	-22.48	-2.85	-17.87	-10.16	-31.11	4.47
	-37.47	-6.28	-29.79	-17.70	-51.84	5.14
	-52.46	-9.72	-41.71	-25.24	-72.58	5.81
	-67.45	-13.15	-53.62	-32.79	-93.32	6.48
	-82.44	-16.59	-65.54	-40.33	-114.05	7.15
	-97.43	-20.02	-77.45	-47.87	-134.79	7.83
	-112.42	-23.46	-89.37	-55.41	-155.53	8.50
-127.41	-26.89	-101.29	-62.95	-176.27	9.17	
-142.40	-30.33	-113.20	-70.49	-197.00	9.84	
1.72	7.49	3.77	5.96	-0.34	10.37	
4.40	1.73	7.51	3.79	5.97	-0.32	10.39
	-142.72	-35.28	-113.52	-73.13	-197.43	2.57
	-127.69	-31.81	-101.57	-65.55	-176.65	1.93
	-112.67	-28.34	-89.62	-57.98	-155.87	1.29
	-97.65	-24.88	-77.67	-50.40	-135.08	0.65
	-82.63	-21.41	-65.72	-42.83	-114.30	0.01
	-67.60	-17.94	-53.77	-35.25	-93.52	-0.62
	-52.58	-14.47	-41.82	-27.68	-72.74	-1.26
	-37.56	-11.00	-29.87	-20.10	-51.96	-1.90
	-22.53	-7.53	-17.92	-12.53	-31.17	-2.54
	-7.51	-4.07	-5.97	-4.95	-10.39	-3.18
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.51	0.60	-5.97	-2.62	-10.39	3.82
	-22.53	-2.87	-17.92	-10.20	-31.17	4.46
	-37.56	-6.34	-29.87	-17.77	-51.96	5.09
	-52.58	-9.81	-41.82	-25.35	-72.74	5.73
	-67.60	-13.28	-53.77	-32.92	-93.52	6.37
	-82.63	-16.74	-65.72	-40.50	-114.30	7.01
	-97.65	-20.21	-77.67	-48.07	-135.08	7.65
	-112.67	-23.68	-89.62	-55.65	-155.87	8.29
-127.69	-27.15	-101.57	-63.22	-176.65	8.93	
-142.72	-30.62	-113.52	-70.80	-197.43	9.57	

	1.73	7.51	3.79	5.97	-0.32	10.39
4.45	1.75	7.53	3.80	5.99	-0.30	10.41
	-143.03	-35.62	-113.83	-73.46	-197.86	2.21
	-127.98	-32.12	-101.85	-65.85	-177.03	1.61
	-112.92	-28.62	-89.87	-58.24	-156.20	1.00
	-97.87	-25.12	-77.89	-50.63	-135.38	0.40
	-82.81	-21.62	-65.90	-43.03	-114.55	-0.21
	-67.75	-18.12	-53.92	-35.42	-93.72	-0.81
	-52.70	-14.61	-41.94	-27.81	-72.89	-1.42
	-37.64	-11.11	-29.96	-20.20	-52.07	-2.02
	-22.58	-7.61	-17.97	-12.59	-31.24	-2.63
	-7.53	-4.11	-5.99	-4.98	-10.41	-3.24
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.53	0.61	-5.99	-2.62	-10.41	3.84
	-22.58	-2.89	-17.97	-10.23	-31.24	4.45
	-37.64	-6.40	-29.96	-17.84	-52.07	5.05
	-52.70	-9.90	-41.94	-25.45	-72.89	5.66
	-67.75	-13.40	-53.92	-33.06	-93.72	6.26
	-82.81	-16.90	-65.90	-40.67	-114.55	6.87
	-97.87	-20.40	-77.89	-48.28	-135.38	7.47
	-112.92	-23.90	-89.87	-55.88	-156.20	8.08
	-127.98	-27.40	-101.85	-63.49	-177.03	8.68
-143.03	-30.91	-113.83	-71.10	-197.86	9.29	
	1.75	7.53	3.80	5.99	-0.30	10.41
4.50	1.77	7.54	3.82	6.01	-0.29	10.44
	-143.35	-35.97	-114.15	-73.79	-198.28	1.86
	-128.26	-32.43	-102.14	-66.15	-177.41	1.28
	-113.17	-28.90	-90.12	-58.51	-156.54	0.71
	-98.08	-25.36	-78.10	-50.86	-135.67	0.14
	-82.99	-21.83	-66.09	-43.22	-114.80	-0.43
	-67.90	-18.29	-54.07	-35.58	-93.92	-1.00
	-52.81	-14.76	-42.06	-27.94	-73.05	-1.58
	-37.72	-11.22	-30.04	-20.30	-52.18	-2.15
	-22.63	-7.69	-18.02	-12.66	-31.31	-2.72
	-7.54	-4.15	-6.01	-5.01	-10.44	-3.29
	0.00	0.00	0.00	0.00	0.00	0.00
	-7.54	0.62	-6.01	-2.63	-10.44	3.86
	-22.63	-2.92	-18.02	-10.27	-31.31	4.44
	-37.72	-6.45	-30.04	-17.91	-52.18	5.01
	-52.81	-9.99	-42.06	-25.55	-73.05	5.58
	-67.90	-13.52	-54.07	-33.20	-93.92	6.15
	-82.99	-17.06	-66.09	-40.84	-114.80	6.72
	-98.08	-20.59	-78.10	-48.48	-135.67	7.30
	-113.17	-24.13	-90.12	-56.12	-156.54	7.87
	-128.26	-27.66	-102.14	-63.76	-177.41	8.44

	-143.35	-31.20	-114.15	-71.40	-198.28	9.01
	1.77	7.54	3.82	6.01	-0.29	10.44

En la Tabla 32 se muestran las combinaciones de esfuerzos para las diagonales en estado límite último (ELU), estado límite de servicio (ELS) para la combinación característica y frecuente para los 81 casos de cerchas.

Tabla 32. Combinación de esfuerzos de las diagonales - 22 divisiones los cordones

Altura cercha (m)	ELS característico		ELS frecuente		ELU	
	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)	Min (KN)	Máx(KN)
0.50	51.48	407.85	178.03	312.84	-75.08	566.08
	46.65	369.00	161.11	283.05	-67.81	512.17
	41.82	330.16	144.19	253.25	-60.55	458.26
	36.99	291.32	127.27	223.46	-53.29	404.35
	32.16	252.48	110.36	193.66	-46.03	350.43
	27.34	213.63	93.44	163.87	-38.77	296.52
	22.51	174.79	76.52	134.08	-31.51	242.61
	17.68	135.95	59.60	104.28	-24.25	188.69
	12.85	97.11	42.68	74.49	-16.98	134.78
	8.02	58.26	25.77	44.69	-9.72	80.87
	3.19	19.42	8.85	14.90	-2.46	26.96
	1.54	18.34	7.62	14.07	-4.53	25.46
	6.10	55.03	23.60	42.21	-11.39	76.38
	10.66	91.72	39.58	70.35	-18.25	127.30
	15.22	128.40	55.56	98.49	-25.11	178.22
	19.78	165.09	71.54	126.63	-31.97	229.14
	24.34	201.78	87.52	154.77	-38.83	280.06
	28.90	238.46	103.49	182.91	-45.69	330.98
33.46	275.15	119.47	211.06	-52.54	381.90	
38.02	311.84	135.45	239.20	-59.40	432.82	
42.58	348.52	151.43	267.34	-66.26	483.74	
47.15	385.21	167.41	295.48	-73.12	534.66	
0.55	41.52	370.18	158.22	282.55	-75.19	514.04
	37.64	334.93	143.19	255.64	-67.91	465.08
	33.76	299.67	128.16	228.73	-60.64	416.13
	29.88	264.42	113.13	201.82	-53.37	367.17
	26.00	229.16	98.10	174.91	-46.09	318.21
	22.12	193.91	83.07	148.00	-38.82	269.26
	18.25	158.65	68.04	121.09	-31.54	220.30
	14.37	123.39	53.00	94.18	-24.27	171.35
	10.49	88.14	37.97	67.27	-17.00	122.39
	6.61	52.88	22.94	40.36	-9.72	73.43
	2.73	17.63	7.91	13.45	-2.45	24.48
	1.08	16.58	6.70	12.66	-4.54	23.02

	4.73	49.74	20.83	37.97	-11.38	69.07
	8.38	82.90	34.97	63.28	-18.22	115.12
	12.02	116.06	49.11	88.59	-25.06	161.16
	15.67	149.22	63.25	113.90	-31.90	207.21
	19.32	182.38	77.39	139.21	-38.74	253.26
	22.97	215.54	91.52	164.52	-45.59	299.31
	26.62	248.71	105.66	189.83	-52.43	345.35
	30.26	281.87	119.80	215.14	-59.27	391.40
	33.91	315.03	133.94	240.45	-66.11	437.45
	37.56	348.19	148.08	265.76	-72.95	483.49
0.60	35.29	341.13	143.88	259.56	-73.30	473.83
	32.00	308.65	130.21	234.84	-66.21	428.70
	28.72	276.16	116.55	210.12	-59.11	383.58
	25.43	243.67	102.89	185.40	-52.02	338.45
	22.15	211.18	89.22	160.68	-44.92	293.32
	18.87	178.69	75.56	135.96	-37.82	248.20
	15.58	146.20	61.89	111.24	-30.73	203.07
	12.30	113.71	48.23	86.52	-23.63	157.94
	9.01	81.22	34.56	61.80	-16.53	112.82
	5.73	48.73	20.90	37.08	-9.44	67.69
	2.45	16.24	7.23	12.36	-2.34	22.56
	0.79	15.22	6.03	11.58	-4.45	21.14
	3.86	45.66	18.83	34.74	-11.10	63.43
	6.94	76.11	31.63	57.91	-17.75	105.71
	10.02	106.55	44.44	81.07	-24.40	148.00
	13.09	136.99	57.24	104.23	-31.05	190.28
	16.17	167.43	70.04	127.40	-37.70	232.56
	19.25	197.88	82.85	150.56	-44.35	274.85
	22.33	228.32	95.65	173.72	-51.00	317.13
	25.40	258.76	108.46	196.89	-57.65	359.42
	28.48	289.20	121.26	220.05	-64.30	401.70
	31.56	319.65	134.06	243.21	-70.95	443.99
0.65	31.62	318.39	133.43	241.89	-70.19	442.30
	28.68	288.07	120.76	218.85	-63.39	400.18
	25.75	257.75	108.09	195.82	-56.59	358.06
	22.82	227.42	95.42	172.78	-49.79	315.93
	19.88	197.10	82.75	149.74	-42.99	273.81
	16.95	166.78	70.09	126.71	-36.18	231.68
	14.02	136.45	57.42	103.67	-29.38	189.56
	11.08	106.13	44.75	80.63	-22.58	147.43
	8.15	75.81	32.08	57.59	-15.78	105.31
	5.22	45.48	19.41	34.56	-8.98	63.19
	2.28	15.16	6.74	11.52	-2.18	21.06
	0.61	14.16	5.53	10.76	-4.32	19.67
	3.35	42.47	17.36	32.27	-10.67	59.00

	6.09	70.79	29.19	53.78	-17.02	98.34
	8.82	99.10	41.02	75.29	-23.37	137.67
	11.56	127.42	52.85	96.80	-29.72	177.01
	14.30	155.73	64.68	118.32	-36.08	216.34
	17.04	184.05	76.51	139.83	-42.43	255.68
	19.78	212.37	88.34	161.34	-48.78	295.01
	22.52	240.68	100.17	182.85	-55.13	334.35
	25.26	269.00	112.00	204.36	-61.48	373.68
	28.00	297.31	123.83	225.88	-67.83	413.02
0.70	28.46	299.10	124.53	226.89	-67.61	415.56
	25.83	270.61	112.71	205.28	-61.05	375.98
	23.20	242.13	100.89	183.67	-54.50	336.40
	20.57	213.64	89.07	162.06	-47.94	296.83
	17.93	185.16	77.25	140.45	-41.38	257.25
	15.30	156.67	65.43	118.84	-34.82	217.67
	12.67	128.18	53.61	97.24	-28.27	178.10
	10.04	99.70	41.79	75.63	-21.71	138.52
	7.41	71.21	29.97	54.02	-15.15	98.94
	4.78	42.73	18.15	32.41	-8.59	59.37
	2.15	14.24	6.33	10.80	-2.03	19.79
	0.45	13.26	5.12	10.06	-4.21	18.42
	2.90	39.78	16.12	30.17	-10.32	55.26
	5.35	66.29	27.12	50.29	-16.42	92.10
	7.80	92.81	38.13	70.40	-22.53	128.95
	10.25	119.33	49.13	90.52	-28.63	165.79
	12.70	145.84	60.13	110.63	-34.73	202.63
	15.15	172.36	71.14	130.75	-40.84	239.47
	17.60	198.88	82.14	150.86	-46.94	276.31
	20.05	225.39	93.15	170.98	-53.05	313.15
22.50	251.91	104.15	191.09	-59.15	349.99	
24.95	278.43	115.15	211.21	-65.26	386.84	
0.75	27.50	284.33	118.66	215.79	-63.67	395.02
	24.96	257.25	107.40	195.24	-57.49	357.40
	22.42	230.17	96.14	174.68	-51.30	319.78
	19.88	203.09	84.88	154.13	-45.12	282.16
	17.34	176.01	73.62	133.58	-38.93	244.54
	14.80	148.94	62.36	113.03	-32.75	206.92
	12.27	121.86	51.10	92.48	-26.56	169.30
	9.73	94.78	39.84	71.93	-20.38	131.67
	7.19	67.70	28.57	51.38	-14.19	94.05
	4.65	40.62	17.31	30.83	-8.01	56.43
	2.11	13.54	6.05	10.28	-1.83	18.81
	0.39	12.57	4.83	9.54	-4.05	17.46
	2.75	37.71	15.29	28.62	-9.79	52.39
5.11	62.85	25.74	47.69	-15.53	87.31	

	7.46	87.98	36.20	66.77	-21.27	122.24
	9.82	113.12	46.65	85.85	-27.01	157.16
	12.18	138.26	57.10	104.93	-32.75	192.08
	14.53	163.40	67.56	124.01	-38.49	227.01
	16.89	188.54	78.01	143.08	-44.23	261.93
	19.24	213.67	88.46	162.16	-49.97	296.86
	21.60	238.81	98.92	181.24	-55.72	331.78
	23.96	263.95	109.37	200.32	-61.46	366.71
0.80	24.99	269.91	111.92	204.53	-61.94	375.04
	22.69	244.21	101.30	185.05	-55.92	339.32
	20.39	218.50	90.68	165.57	-49.90	303.60
	18.09	192.79	80.06	146.09	-43.88	267.89
	15.79	167.09	69.44	126.61	-37.86	232.17
	13.50	141.38	58.83	107.14	-31.83	196.45
	11.20	115.68	48.21	87.66	-25.81	160.73
	8.90	89.97	37.59	68.18	-19.79	125.01
	6.60	64.26	26.97	48.70	-13.77	89.30
	4.31	38.56	16.36	29.22	-7.74	53.58
	2.01	12.85	5.74	9.74	-1.72	17.86
	0.27	11.90	4.52	9.02	-3.98	16.54
	2.40	35.71	14.35	27.06	-9.56	49.61
	4.52	59.51	24.18	45.10	-15.14	82.69
	6.65	83.32	34.02	63.13	-20.71	115.77
	8.78	107.12	43.85	81.17	-26.29	148.84
	10.91	130.93	53.68	99.21	-31.87	181.92
	13.04	154.73	63.51	117.25	-37.44	215.00
	15.16	178.54	73.35	135.29	-43.02	248.07
	17.29	202.34	83.18	153.33	-48.60	281.15
19.42	226.15	93.01	171.37	-54.17	314.23	
21.55	249.95	102.84	189.40	-59.75	347.30	
0.85	24.25	258.81	107.49	196.18	-59.00	359.61
	22.02	234.16	97.30	177.50	-53.25	325.36
	19.80	209.52	87.10	158.82	-47.51	291.11
	17.57	184.87	76.91	140.13	-41.77	256.86
	15.34	160.22	66.71	121.45	-36.02	222.61
	13.12	135.57	56.51	102.76	-30.28	188.37
	10.89	110.92	46.32	84.08	-24.53	154.12
	8.67	86.27	36.12	65.39	-18.79	119.87
	6.44	61.62	25.93	46.71	-13.05	85.62
	4.21	36.97	15.73	28.03	-7.30	51.37
	1.99	12.32	5.54	9.34	-1.56	17.12
	0.22	11.39	4.31	8.63	-3.87	15.82
	2.28	34.17	13.73	25.90	-9.17	47.47
	4.33	56.94	23.15	43.16	-14.48	79.12
6.39	79.72	32.57	60.43	-19.79	110.77	

	8.45	102.50	41.99	77.69	-25.10	142.42
	10.51	125.27	51.42	94.96	-30.40	174.06
	12.56	148.05	60.84	112.23	-35.71	205.71
	14.62	170.83	70.26	129.49	-41.02	237.36
	16.68	193.61	79.68	146.76	-46.32	269.01
	18.73	216.38	89.10	164.02	-51.63	300.65
	20.79	239.16	98.52	181.29	-56.94	332.30
	22.32	247.80	102.33	187.58	-57.70	344.35
0.90	20.27	224.20	92.63	169.72	-52.08	311.55
	18.23	200.60	82.92	151.85	-46.46	278.76
	16.19	177.00	73.22	133.99	-40.83	245.96
	14.15	153.40	63.52	116.12	-35.21	213.17
	12.11	129.80	53.81	98.26	-29.59	180.37
	10.07	106.20	44.11	80.39	-23.97	147.58
	8.03	82.60	34.41	62.53	-18.34	114.78
	5.99	59.00	24.70	44.66	-12.72	81.99
	3.95	35.40	15.00	26.80	-7.10	49.19
	1.91	11.80	5.30	8.93	-1.48	16.40
	0.12	10.88	4.06	8.24	-3.82	15.12
	2.00	32.65	13.01	24.72	-9.01	45.37
	3.88	54.42	21.96	41.19	-14.20	75.62
	5.77	76.19	30.91	57.67	-19.38	105.87
	7.65	97.95	39.86	74.15	-24.57	136.12
	9.53	119.72	48.81	90.63	-29.75	166.37
	11.41	141.49	57.76	107.11	-34.94	196.62
	13.29	163.26	66.71	123.58	-40.13	226.87
	15.18	185.03	75.66	140.06	-45.31	257.11
	17.06	206.79	84.61	156.54	-50.50	287.36
18.94	228.56	93.56	173.02	-55.68	317.61	
0.95	21.96	239.44	99.13	181.34	-55.21	332.71
	19.95	216.63	89.73	164.07	-49.82	301.03
	17.95	193.83	80.33	146.80	-44.44	269.34
	15.94	171.03	70.93	129.53	-39.05	237.65
	13.94	148.22	61.54	112.26	-33.66	205.96
	11.93	125.42	52.14	94.99	-28.27	174.28
	9.93	102.62	42.74	77.72	-22.89	142.59
	7.92	79.81	33.34	60.45	-17.50	110.90
	5.92	57.01	23.95	43.18	-12.11	79.22
	3.91	34.21	14.55	25.91	-6.72	47.53
	1.91	11.40	5.15	8.64	-1.33	15.84
	0.09	10.50	3.91	7.95	-3.73	14.59
	1.93	31.50	12.56	23.86	-8.69	43.77
	3.78	52.50	21.22	39.76	-13.66	72.95
	5.63	73.50	29.87	55.67	-18.62	102.13
	7.47	94.50	38.53	71.57	-23.58	131.31

	9.32	115.50	47.18	87.48	-28.54	160.49
	11.17	136.50	55.83	103.38	-33.50	189.67
	13.01	157.50	64.49	119.29	-38.46	218.85
	14.86	178.50	73.14	135.19	-43.43	248.03
	16.70	199.50	81.80	151.10	-48.39	277.22
	18.55	220.50	90.45	167.00	-53.35	306.40
1.00	21.42	231.80	96.06	175.59	-53.22	322.10
	19.47	209.73	86.96	158.87	-48.02	291.42
	17.52	187.65	77.85	142.15	-42.82	260.75
	15.56	165.57	68.75	125.42	-37.62	230.07
	13.61	143.50	59.64	108.70	-32.42	199.39
	11.66	121.42	50.54	91.98	-27.22	168.72
	9.71	99.34	41.43	75.25	-22.02	138.04
	7.76	77.27	32.33	58.53	-16.82	107.37
	5.80	55.19	23.22	41.81	-11.62	76.69
	3.85	33.11	14.12	25.08	-6.42	46.01
	1.90	11.04	5.01	8.36	-1.22	15.34
	0.05	10.15	3.76	7.69	-3.66	14.11
	1.84	30.46	12.14	23.07	-8.45	42.32
	3.64	50.76	20.51	38.45	-13.23	70.53
	5.43	71.06	28.88	53.83	-18.01	98.74
	7.23	91.37	37.26	69.21	-22.80	126.96
	9.03	111.67	45.63	84.59	-27.58	155.17
	10.82	131.97	54.00	99.97	-32.36	183.38
	12.62	152.28	62.38	115.35	-37.15	211.59
	14.41	172.58	70.75	130.73	-41.93	239.81
16.21	192.88	79.13	146.11	-46.71	268.02	
18.00	213.19	87.50	161.49	-51.49	296.23	
1.05	21.19	225.25	93.58	170.72	-51.20	312.98
	19.26	203.80	84.72	154.46	-46.19	283.17
	17.33	182.34	75.85	138.20	-41.18	253.36
	15.41	160.89	66.98	121.94	-36.17	223.55
	13.48	139.44	58.11	105.68	-31.16	193.75
	11.55	117.99	49.24	89.42	-26.15	163.94
	9.62	96.53	40.38	73.16	-21.14	134.13
	7.69	75.08	31.51	56.91	-16.13	104.33
	5.76	53.63	22.64	40.65	-11.12	74.52
	3.83	32.18	13.77	24.39	-6.11	44.71
	1.90	10.73	4.90	8.13	-1.09	14.90
	0.02	9.85	3.64	7.47	-3.60	13.69
	1.79	29.56	11.79	22.41	-8.20	41.08
	3.57	49.27	19.94	37.34	-12.80	68.46
	5.34	68.98	28.08	52.28	-17.41	95.84
	7.11	88.69	36.23	67.22	-22.01	123.23
	8.88	108.39	44.38	82.15	-26.61	150.61

	10.65	128.10	52.52	97.09	-31.22	177.99
	12.43	147.81	60.67	112.03	-35.82	205.38
	14.20	167.52	68.82	126.96	-40.42	232.76
	15.97	187.23	76.96	141.90	-45.02	260.14
	17.74	206.93	85.11	156.84	-49.63	287.53
	19.86	218.25	90.24	165.22	-50.52	303.28
1.10	18.06	197.46	81.69	149.49	-45.57	274.40
	16.26	176.68	73.14	133.75	-40.62	245.52
	14.46	155.89	64.59	118.02	-35.67	216.63
	12.66	135.11	56.04	102.28	-30.72	187.75
	10.86	114.32	47.49	86.55	-25.78	158.86
	9.06	93.54	38.95	70.81	-20.83	129.98
	7.26	72.75	30.40	55.07	-15.88	101.09
	5.46	51.96	21.85	39.34	-10.93	72.21
	3.66	31.18	13.30	23.60	-5.98	43.33
	1.86	10.39	4.75	7.87	-1.04	14.44
	-0.05	9.54	3.48	7.22	-3.59	13.26
	1.60	28.62	11.33	21.67	-8.13	39.77
	3.25	47.70	19.18	36.11	-12.67	66.28
	4.90	66.78	27.02	50.55	-17.21	92.79
	6.56	85.86	34.87	65.00	-21.76	119.31
	8.21	104.93	42.72	79.44	-26.30	145.82
	9.86	124.01	50.56	93.88	-30.84	172.33
	11.51	143.09	58.41	108.33	-35.38	198.84
	13.17	162.17	66.25	122.77	-39.92	225.36
	14.82	181.25	74.10	137.21	-44.46	251.87
16.47	200.33	81.95	151.66	-49.01	278.38	
1.15	19.75	213.05	88.31	161.37	-48.81	296.04
	17.96	192.76	79.95	146.00	-44.02	267.85
	16.18	172.47	71.59	130.63	-39.23	239.65
	14.39	152.18	63.22	115.26	-34.45	211.46
	12.60	131.89	54.86	99.90	-29.66	183.26
	10.81	111.60	46.49	84.53	-24.87	155.07
	9.02	91.31	38.13	69.16	-20.08	126.87
	7.23	71.02	29.76	53.79	-15.29	98.68
	5.45	50.73	21.40	38.42	-10.51	70.49
	3.66	30.44	13.03	23.05	-5.72	42.29
	1.87	10.15	4.67	7.68	-0.93	14.10
	-0.08	9.31	3.39	7.05	-3.54	12.93
	1.57	27.92	11.06	21.15	-7.93	38.79
	3.21	46.53	18.73	35.24	-12.32	64.65
	4.85	65.14	26.41	49.34	-16.71	90.52
	6.49	83.75	34.08	63.44	-21.11	116.38
	8.13	102.36	41.75	77.53	-25.50	142.24
	9.77	120.98	49.42	91.63	-29.89	168.10

	11.41	139.59	57.10	105.73	-34.28	193.96
	13.05	158.20	64.77	119.83	-38.67	219.83
	14.69	176.81	72.44	133.92	-43.07	245.69
	16.33	195.42	80.11	148.02	-47.46	271.55
	19.68	208.37	86.60	157.91	-47.25	289.53
	17.90	188.53	78.40	142.88	-42.61	261.96
	16.12	168.68	70.20	127.84	-37.96	234.38
	14.34	148.84	62.00	112.80	-33.32	206.81
	12.56	128.99	53.80	97.76	-28.68	179.23
	10.78	109.15	45.60	82.72	-24.04	151.66
	9.00	89.30	37.40	67.68	-19.40	124.09
	7.22	69.46	29.20	52.64	-14.75	96.51
	5.44	49.61	21.00	37.60	-10.11	68.94
	3.66	29.77	12.80	22.56	-5.47	41.36
	1.88	9.92	4.60	7.52	-0.83	13.79
	-0.10	9.10	3.30	6.89	-3.50	12.64
	1.54	27.29	10.82	20.68	-7.75	37.92
	3.17	45.49	18.34	34.47	-12.01	63.20
	4.80	63.68	25.86	48.26	-16.26	88.48
	6.43	81.88	33.38	62.05	-20.52	113.76
	8.06	100.07	40.90	75.84	-24.77	139.05
	9.69	118.26	48.41	89.63	-29.03	164.33
	11.32	136.46	55.93	103.41	-33.29	189.61
	12.95	154.65	63.45	117.20	-37.54	214.89
	14.59	172.85	70.97	130.99	-41.80	240.17
	16.22	191.04	78.49	144.78	-46.05	265.45
	19.63	204.16	85.07	154.81	-45.81	283.67
	17.86	184.72	77.02	140.06	-41.30	256.65
	16.09	165.27	68.97	125.32	-36.79	229.63
	14.31	145.83	60.91	110.58	-32.29	202.62
	12.54	126.39	52.86	95.83	-27.78	175.60
	10.77	106.94	44.80	81.09	-23.27	148.59
	8.99	87.50	36.75	66.35	-18.76	121.57
	7.22	68.05	28.70	51.60	-14.26	94.56
	5.45	48.61	20.64	36.86	-9.75	67.54
	3.67	29.17	12.59	22.12	-5.24	40.52
	1.90	9.72	4.53	7.37	-0.73	13.51
	-0.12	8.91	3.23	6.76	-3.46	12.38
	1.51	26.73	10.61	20.27	-7.59	37.14
	3.13	44.55	17.99	33.78	-11.72	61.90
	4.76	62.37	25.37	47.29	-15.85	86.66
	6.39	80.19	32.75	60.81	-19.98	111.42
	8.01	98.02	40.14	74.32	-24.11	136.18
	9.64	115.84	47.52	87.83	-28.25	160.94
	11.26	133.66	54.90	101.35	-32.38	185.71

	12.89	151.48	62.28	114.86	-36.51	210.47
	14.51	169.30	69.66	128.37	-40.64	235.23
	16.14	187.12	77.04	141.88	-44.77	259.99
1.30	19.62	200.35	83.71	152.00	-44.48	278.36
	17.85	181.27	75.78	137.53	-40.09	251.85
	16.08	162.19	67.86	123.05	-35.71	225.34
	14.31	143.11	59.94	108.57	-31.33	198.83
	12.54	124.03	52.01	94.10	-26.94	172.32
	10.77	104.95	44.09	79.62	-22.56	145.81
	9.00	85.87	36.17	65.14	-18.18	119.30
	7.23	66.78	28.25	50.67	-13.79	92.79
	5.46	47.70	20.32	36.19	-9.41	66.28
	3.69	28.62	12.40	21.71	-5.03	39.77
	1.92	9.54	4.48	7.24	-0.64	13.26
	-0.14	8.74	3.16	6.63	-3.43	12.15
	1.49	26.23	10.42	19.90	-7.44	36.44
	3.11	43.71	17.68	33.16	-11.46	60.73
	4.73	61.20	24.94	46.43	-15.48	85.03
	6.35	78.69	32.20	59.70	-19.49	109.32
	7.97	96.17	39.46	72.96	-23.51	133.61
	9.60	113.66	46.72	86.23	-27.53	157.91
	11.22	131.14	53.98	99.49	-31.54	182.20
	12.84	148.63	61.24	112.76	-35.56	206.50
	14.46	166.11	68.50	126.02	-39.58	230.79
	16.08	183.60	75.76	139.29	-43.59	255.08
	1.35	19.62	196.90	82.48	149.47	-43.24
17.85		178.15	74.68	135.23	-38.97	247.50
16.08		159.40	66.87	121.00	-34.70	221.45
14.32		140.65	59.06	106.76	-30.43	195.40
12.55		121.89	51.26	92.53	-26.17	169.34
10.78		103.14	43.45	78.29	-21.90	143.29
9.01		84.39	35.65	64.06	-17.63	117.24
7.24		65.63	27.84	49.82	-13.36	91.18
5.47		46.88	20.04	35.59	-9.09	65.13
3.70		28.13	12.23	21.35	-4.82	39.08
1.94		9.38	4.43	7.12	-0.56	13.03
-0.15		8.59	3.09	6.52	-3.40	11.94
1.47		25.78	10.25	19.57	-7.31	35.81
3.09		42.96	17.40	32.61	-11.22	59.68
4.71		60.14	24.55	45.65	-15.13	83.56
6.33		77.33	31.70	58.70	-19.05	107.43
7.95		94.51	38.86	71.74	-22.96	131.30
9.57		111.69	46.01	84.78	-26.87	155.17
11.19		128.88	53.16	97.83	-30.78	179.05
12.81		146.06	60.31	110.87	-34.69	202.92

	14.43	163.25	67.46	123.92	-38.60	226.79
	16.05	180.43	74.62	136.96	-42.51	250.67
1.40	19.65	193.77	81.38	147.17	-42.09	269.19
	17.88	175.31	73.68	133.15	-37.92	243.55
	16.11	156.86	65.98	119.13	-33.76	217.91
	14.34	138.41	58.28	105.12	-29.60	192.28
	12.57	119.95	50.58	91.10	-25.44	166.64
	10.80	101.50	42.88	77.09	-21.28	141.00
	9.03	83.04	35.18	63.07	-17.12	115.37
	7.26	64.59	27.48	49.06	-12.96	89.73
	5.49	46.14	19.78	35.04	-8.80	64.09
	3.73	27.68	12.08	21.02	-4.63	38.46
	1.96	9.23	4.39	7.01	-0.47	12.82
	-0.17	8.46	3.04	6.42	-3.38	11.75
	1.45	25.37	10.09	19.27	-7.19	35.24
	3.07	42.28	17.15	32.11	-11.01	58.73
	4.69	59.19	24.20	44.95	-14.82	82.23
	6.31	76.10	31.26	57.80	-18.63	105.72
	7.93	93.01	38.32	70.64	-22.45	129.22
	9.56	109.92	45.37	83.49	-26.26	152.71
	11.18	126.84	52.43	96.33	-30.07	176.20
	12.80	143.75	59.48	109.18	-33.89	199.70
	14.42	160.66	66.54	122.02	-37.70	223.19
	16.04	177.57	73.60	134.86	-41.51	246.68
1.45	19.69	190.91	80.39	145.08	-41.01	265.21
	17.92	172.73	72.79	131.26	-36.95	239.95
	16.15	154.55	65.18	117.44	-32.88	214.69
	14.38	136.37	57.58	103.63	-28.82	189.43
	12.61	118.19	49.97	89.81	-24.76	164.18
	10.84	100.00	42.37	75.99	-20.70	138.92
	9.06	81.82	34.77	62.18	-16.64	113.66
	7.29	63.64	27.16	48.36	-12.58	88.40
	5.52	45.46	19.56	34.54	-8.52	63.14
	3.75	27.27	11.95	20.73	-4.45	37.89
	1.98	9.09	4.35	6.91	-0.39	12.63
	-0.19	8.33	2.98	6.33	-3.36	11.58
	1.44	25.00	9.95	19.00	-7.08	34.73
	3.06	41.66	16.92	31.66	-10.81	57.88
	4.68	58.33	23.89	44.32	-14.53	81.03
	6.31	74.99	30.87	56.99	-18.25	104.18
	7.93	91.66	37.84	69.65	-21.97	127.33
	9.55	108.33	44.81	82.32	-25.70	150.48
	11.18	124.99	51.78	94.98	-29.42	173.63
	12.80	141.66	58.75	107.65	-33.14	196.78
14.43	158.32	65.72	120.31	-36.86	219.93	

	16.05	174.99	72.69	132.97	-40.59	243.08
1.50	19.76	188.31	79.50	143.18	-39.99	261.58
	17.98	170.38	71.99	129.54	-36.03	236.67
	16.20	152.44	64.47	115.91	-32.06	211.75
	14.43	134.51	56.95	102.27	-28.09	186.84
	12.65	116.57	49.43	88.63	-24.12	161.93
	10.88	98.64	41.91	75.00	-20.15	137.02
	9.10	80.70	34.39	61.36	-16.19	112.10
	7.33	62.77	26.87	47.73	-12.22	87.19
	5.55	44.84	19.35	34.09	-8.25	62.28
	3.78	26.90	11.83	20.45	-4.28	37.37
	2.00	8.97	4.32	6.82	-0.32	12.46
	-0.21	8.22	2.94	6.25	-3.35	11.42
	1.42	24.66	9.83	18.75	-6.99	34.26
	3.05	41.11	16.72	31.25	-10.62	57.10
	4.68	57.55	23.62	43.76	-14.26	79.94
	6.31	73.99	30.51	56.26	-17.90	102.78
	7.93	90.44	37.40	68.76	-21.54	125.62
	9.56	106.88	44.30	81.26	-25.17	148.46
	11.19	123.32	51.19	93.76	-28.81	171.30
	12.82	139.76	58.09	106.27	-32.45	194.14
14.45	156.21	64.98	118.77	-36.09	216.98	
16.07	172.65	71.87	131.27	-39.73	239.82	
1.55	19.83	185.93	78.71	141.45	-39.04	258.26
	18.05	168.22	71.26	127.97	-35.16	233.66
	16.27	150.51	63.82	114.50	-31.28	209.07
	14.49	132.81	56.38	101.03	-27.40	184.47
	12.71	115.10	48.94	87.56	-23.52	159.87
	10.93	97.39	41.50	74.09	-19.64	135.28
	9.15	79.68	34.05	60.62	-15.76	110.68
	7.37	61.98	26.61	47.15	-11.88	86.09
	5.58	44.27	19.17	33.68	-8.00	61.49
	3.80	26.56	11.73	20.21	-4.12	36.89
	2.02	8.85	4.29	6.74	-0.24	12.30
	-0.22	8.12	2.89	6.18	-3.34	11.28
	1.41	24.36	9.72	18.53	-6.90	33.84
	3.05	40.60	16.54	30.89	-10.45	56.40
	4.68	56.84	23.37	43.24	-14.01	78.96
	6.31	73.08	30.19	55.60	-17.57	101.51
	7.95	89.32	37.02	67.95	-21.13	124.07
	9.58	105.57	43.85	80.31	-24.69	146.63
	11.21	121.81	50.67	92.66	-28.25	169.19
	12.85	138.05	57.50	105.02	-31.80	191.75
14.48	154.29	64.32	117.37	-35.36	214.31	
16.11	170.53	71.15	129.73	-38.92	236.87	

1.60	19.93	183.75	77.99	139.86	-38.14	255.22
	18.14	166.25	70.61	126.54	-34.34	230.91
	16.35	148.75	63.24	113.22	-30.54	206.61
	14.56	131.25	55.87	99.90	-26.75	182.30
	12.77	113.75	48.50	86.58	-22.95	157.99
	10.99	96.25	41.12	73.26	-19.15	133.69
	9.20	78.75	33.75	59.94	-15.36	109.38
	7.41	61.25	26.38	46.62	-11.56	85.07
	5.62	43.75	19.01	33.30	-7.76	60.77
	3.83	26.25	11.64	19.98	-3.97	36.46
	2.05	8.75	4.26	6.66	-0.17	12.15
	-0.24	8.03	2.85	6.11	-3.33	11.15
	1.40	24.09	9.62	18.33	-6.81	33.45
	3.04	40.14	16.38	30.56	-10.30	55.76
	4.68	56.20	23.15	42.78	-13.78	78.06
	6.32	72.26	29.91	55.00	-17.26	100.36
	7.96	88.32	36.68	67.22	-20.75	122.67
	9.60	104.37	43.44	79.45	-24.23	144.97
	11.25	120.43	50.21	91.67	-27.72	167.27
	12.89	136.49	56.97	103.89	-31.20	189.57
14.53	152.55	63.74	116.11	-34.68	211.88	
16.17	168.60	70.50	128.34	-38.17	234.18	
1.65	20.03	181.75	77.34	138.42	-37.28	252.43
	18.23	164.44	70.03	125.24	-33.56	228.39
	16.44	147.13	62.72	112.05	-29.84	204.35
	14.64	129.82	55.41	98.87	-26.13	180.31
	12.85	112.51	48.10	85.69	-22.41	156.27
	11.05	95.20	40.79	72.51	-18.69	132.22
	9.25	77.89	33.48	59.32	-14.97	108.18
	7.46	60.58	26.17	46.14	-11.25	84.14
	5.66	43.27	18.86	32.96	-7.53	60.10
	3.87	25.96	11.55	19.77	-3.82	36.06
	2.07	8.65	4.24	6.59	-0.10	12.02
	-0.25	7.95	2.82	6.05	-3.32	11.04
	1.39	23.84	9.53	18.15	-6.74	33.11
	3.04	39.73	16.24	30.26	-10.15	55.18
	4.69	55.62	22.95	42.36	-13.56	77.25
	6.34	71.51	29.66	54.46	-16.98	99.32
	7.99	87.40	36.37	66.56	-20.39	121.39
	9.64	103.29	43.08	78.66	-23.80	143.46
	11.29	119.18	49.79	90.77	-27.22	165.53
	12.93	135.07	56.50	102.87	-30.63	187.60
14.58	150.96	63.21	114.97	-34.05	209.67	
16.23	166.85	69.92	127.07	-37.46	231.74	
1.70	20.15	179.92	76.76	137.10	-36.47	249.87

	18.34	162.78	69.51	124.04	-32.82	226.07
	16.54	145.65	62.25	110.98	-29.18	202.27
	14.73	128.51	55.00	97.93	-25.54	178.48
	12.93	111.38	47.75	84.87	-21.89	154.68
	11.12	94.24	40.49	71.81	-18.25	130.88
	9.32	77.11	33.24	58.76	-14.60	107.09
	7.51	59.97	25.99	45.70	-10.96	83.29
	5.71	42.84	18.73	32.64	-7.32	59.49
	3.90	25.70	11.48	19.59	-3.67	35.70
	2.10	8.57	4.22	6.53	-0.03	11.90
	-0.27	7.87	2.78	6.00	-3.32	10.93
	1.39	23.61	9.44	17.99	-6.67	32.79
	3.05	39.35	16.11	29.98	-10.01	54.65
	4.70	55.09	22.77	41.98	-13.36	76.50
	6.36	70.83	29.43	53.97	-16.71	98.36
	8.02	86.56	36.10	65.96	-20.06	120.22
	9.68	102.30	42.76	77.96	-23.40	142.08
	11.34	118.04	49.42	89.95	-26.75	163.94
	12.99	133.78	56.08	101.94	-30.10	185.80
	14.65	149.52	62.75	113.94	-33.44	207.65
	16.31	165.26	69.41	125.93	-36.79	229.51
	20.27	178.23	76.24	135.89	-35.69	247.51
1.75	18.46	161.25	69.04	122.94	-32.12	223.94
	16.64	144.28	61.83	110.00	-28.55	200.36
	14.83	127.30	54.63	97.06	-24.97	176.79
	13.01	110.33	47.43	84.12	-21.40	153.22
	11.20	93.36	40.22	71.18	-17.83	129.65
	9.38	76.38	33.02	58.24	-14.25	106.08
	7.57	59.41	25.82	45.30	-10.68	82.50
	5.75	42.43	18.62	32.35	-7.11	58.93
	3.94	25.46	11.41	19.41	-3.53	35.36
	2.12	8.49	4.21	6.47	0.04	11.79
	-0.28	7.80	2.75	5.95	-3.32	10.83
	1.38	23.40	9.37	17.84	-6.60	32.50
	3.05	39.00	15.99	29.74	-9.89	54.16
	4.72	54.60	22.61	41.63	-13.17	75.83
	6.39	70.20	29.23	53.53	-16.46	97.49
	8.06	85.80	35.85	65.42	-19.74	119.16
	9.72	101.40	42.47	77.31	-23.02	140.82
	11.39	117.01	49.09	89.21	-26.31	162.49
	13.06	132.61	55.71	101.10	-29.59	184.15
	14.73	148.21	62.33	113.00	-32.88	205.82
	16.40	163.81	68.95	124.89	-36.16	227.49
1.80	20.41	176.67	75.77	134.78	-34.95	245.34
	18.58	159.85	68.61	121.94	-31.45	221.97

	16.76	143.02	61.46	109.10	-27.94	198.61
	14.93	126.19	54.30	96.27	-24.44	175.24
	13.11	109.37	47.14	83.43	-20.93	151.88
	11.28	92.54	39.98	70.60	-17.42	128.51
	9.45	75.72	32.83	57.76	-13.92	105.15
	7.63	58.89	25.67	44.93	-10.41	81.78
	5.80	42.06	18.51	32.09	-6.91	58.41
	3.98	25.24	11.36	19.25	-3.40	35.05
	2.15	8.41	4.20	6.42	0.10	11.68
	-0.30	7.74	2.72	5.90	-3.32	10.74
	1.38	23.21	9.30	17.71	-6.55	32.23
	3.06	38.69	15.89	29.51	-9.77	53.72
	4.74	54.16	22.47	41.32	-12.99	75.21
	6.42	69.64	29.05	53.12	-16.22	96.70
	8.10	85.11	35.63	64.93	-19.44	118.19
	9.77	100.59	42.22	76.73	-22.67	139.68
	11.45	116.06	48.80	88.54	-25.89	161.17
	13.13	131.54	55.38	100.34	-29.12	182.66
	14.81	147.01	61.96	112.15	-32.34	204.15
	16.49	162.48	68.55	123.95	-35.56	225.64
1.85	20.55	175.24	75.35	133.76	-34.25	243.34
	18.72	158.55	68.23	121.02	-30.80	220.16
	16.88	141.86	61.12	108.28	-27.36	196.99
	15.04	125.17	54.00	95.54	-23.92	173.81
	13.20	108.48	46.89	82.80	-20.48	150.64
	11.37	91.79	39.77	70.06	-17.04	127.46
	9.53	75.10	32.65	57.32	-13.60	104.29
	7.69	58.41	25.54	44.59	-10.15	81.11
	5.85	41.72	18.42	31.85	-6.71	57.94
	4.02	25.03	11.30	19.11	-3.27	34.76
	2.18	8.34	4.19	6.37	0.17	11.59
	-0.31	7.68	2.69	5.86	-3.32	10.66
	1.38	23.04	9.24	17.59	-6.49	31.99
	3.07	38.40	15.79	29.31	-9.66	53.32
	4.76	53.76	22.34	41.03	-12.83	74.65
	6.45	69.12	28.89	52.76	-15.99	95.98
	8.14	84.48	35.44	64.48	-19.16	117.31
	9.83	99.84	41.99	76.20	-22.33	138.64
	11.52	115.20	48.54	87.93	-25.49	159.96
	13.21	130.56	55.09	99.65	-28.66	181.29
	14.90	145.92	61.64	111.38	-31.83	202.62
	16.60	161.28	68.19	123.10	-35.00	223.95
1.90	20.71	173.92	74.98	132.82	-33.56	241.49
	18.86	157.35	67.90	120.17	-30.19	218.49
	17.01	140.79	60.82	107.52	-26.81	195.49

	15.16	124.23	53.74	94.87	-23.43	172.49
	13.31	107.66	46.66	82.22	-20.05	149.49
	11.46	91.10	39.58	69.57	-16.67	126.50
	9.61	74.54	32.50	56.92	-13.29	103.50
	7.76	57.97	25.42	44.27	-9.91	80.50
	5.91	41.41	18.34	31.62	-6.53	57.50
	4.06	24.85	11.26	18.97	-3.15	34.50
	2.21	8.28	4.18	6.32	0.23	11.50
	-0.33	7.63	2.67	5.83	-3.33	10.59
	1.37	22.88	9.19	17.48	-6.44	31.77
	3.08	38.14	15.71	29.13	-9.55	52.95
	4.78	53.39	22.23	40.78	-12.67	74.14
	6.49	68.65	28.75	52.43	-15.78	95.32
	8.19	83.90	35.27	64.08	-18.89	116.50
	9.89	99.16	41.79	75.73	-22.00	137.68
	11.60	114.41	48.31	87.38	-25.12	158.86
	13.30	129.67	54.83	99.03	-28.23	180.04
	15.00	144.92	61.35	110.68	-31.34	201.23
	16.71	160.18	67.87	122.33	-34.46	222.41
	20.87	172.70	74.64	131.96	-32.91	239.78
	19.00	156.25	67.60	119.40	-29.59	216.95
	17.14	139.80	60.55	106.83	-26.27	194.11
	15.28	123.36	53.50	94.26	-22.95	171.27
	13.41	106.91	46.46	81.69	-19.63	148.44
	11.55	90.46	39.41	69.12	-16.31	125.60
	9.69	74.01	32.36	56.56	-12.99	102.76
	7.83	57.57	25.32	43.99	-9.67	79.93
	5.96	41.12	18.27	31.42	-6.34	57.09
	4.10	24.67	11.22	18.85	-3.02	34.25
	2.24	8.22	4.18	6.28	0.30	11.42
	-0.34	7.58	2.65	5.79	-3.33	10.52
	1.37	22.74	9.14	17.38	-6.39	31.57
	3.09	37.90	15.64	28.96	-9.45	52.62
	4.81	53.06	22.13	40.54	-12.52	73.67
	6.52	68.22	28.63	52.13	-15.58	94.71
	8.24	83.37	35.12	63.71	-18.64	115.76
	9.96	98.53	41.62	75.29	-21.70	136.81
	11.68	113.69	48.11	86.88	-24.76	157.86
	13.39	128.85	54.60	98.46	-27.82	178.91
	15.11	144.01	61.10	110.04	-30.88	199.95
	16.83	159.17	67.59	121.63	-33.94	221.00
	21.03	171.57	74.35	131.17	-32.28	238.21
	19.16	155.23	67.33	118.68	-29.02	215.52
	17.28	138.89	60.31	106.19	-25.75	192.83
	15.40	122.55	53.30	93.70	-22.49	170.15

	13.53	106.21	46.28	81.20	-19.22	147.46
	11.65	89.87	39.26	68.71	-15.96	124.78
	9.77	73.53	32.24	56.22	-12.70	102.09
	7.90	57.19	25.22	43.72	-9.43	79.40
	6.02	40.85	18.21	31.23	-6.17	56.72
	4.14	24.51	11.19	18.74	-2.91	34.03
	2.27	8.17	4.17	6.25	0.36	11.34
	-0.36	7.54	2.62	5.76	-3.34	10.46
	1.37	22.61	9.10	17.28	-6.35	31.39
	3.10	37.68	15.57	28.81	-9.36	52.31
	4.84	52.75	22.04	40.33	-12.37	73.24
	6.57	67.82	28.52	51.85	-15.38	94.16
	8.30	82.89	34.99	63.38	-18.39	115.09
	10.03	97.97	41.46	74.90	-21.40	136.01
	11.76	113.04	47.93	86.42	-24.41	156.94
	13.49	128.11	54.41	97.94	-27.42	177.86
	15.22	143.18	60.88	109.47	-30.43	198.79
	16.95	158.25	67.35	120.99	-33.44	219.71
	21.21	170.53	74.09	130.45	-31.67	236.75
	19.32	154.29	67.10	118.03	-28.46	214.20
	17.43	138.05	60.10	105.60	-25.25	191.65
	15.53	121.81	53.11	93.18	-22.04	169.11
	13.64	105.57	46.12	80.75	-18.83	146.56
	11.75	89.32	39.13	68.33	-15.63	124.01
	9.86	73.08	32.14	55.91	-12.42	101.46
	7.97	56.84	25.15	43.48	-9.21	78.92
	6.08	40.60	18.15	31.06	-6.00	56.37
	4.19	24.36	11.16	18.64	-2.79	33.82
	2.29	8.12	4.17	6.21	0.42	11.27
	-0.37	7.50	2.60	5.73	-3.35	10.41
	1.37	22.49	9.06	17.20	-6.31	31.22
	3.12	37.48	15.51	28.67	-9.27	52.03
	4.87	52.47	21.97	40.14	-12.24	72.85
	6.61	67.46	28.42	51.61	-15.20	93.66
	8.36	82.45	34.87	63.08	-18.16	114.47
	10.10	97.45	41.33	74.54	-21.12	135.29
	11.85	112.44	47.78	86.01	-24.08	156.10
	13.59	127.43	54.23	97.48	-27.05	176.91
	15.34	142.42	60.69	108.95	-30.01	197.73
	17.09	157.41	67.14	120.42	-32.97	218.54
	21.39	169.57	73.86	129.78	-31.08	235.40
	19.48	153.42	66.89	117.42	-27.92	212.98
	17.58	137.27	59.92	105.06	-24.77	190.56
	15.67	121.12	52.95	92.70	-21.61	168.14
	13.76	104.97	45.98	80.34	-18.46	145.72

	11.86	88.82	39.01	67.98	-15.30	123.30
	9.95	72.67	32.04	55.62	-12.14	100.89
	8.04	56.52	25.08	43.26	-8.99	78.47
	6.14	40.37	18.11	30.90	-5.83	56.05
	4.23	24.22	11.14	18.54	-2.68	33.63
	2.33	8.07	4.17	6.18	0.48	11.21
	-0.39	7.46	2.59	5.71	-3.36	10.36
	1.37	22.38	9.02	17.13	-6.27	31.07
	3.14	37.30	15.46	28.55	-9.19	51.78
	4.90	52.22	21.90	39.97	-12.11	72.49
	6.66	67.13	28.34	51.38	-15.02	93.20
	8.42	82.05	34.77	62.80	-17.94	113.91
	10.18	96.97	41.21	74.22	-20.85	134.62
	11.94	111.89	47.65	85.64	-23.77	155.33
	13.70	126.81	54.09	97.06	-26.68	176.04
	15.46	141.73	60.52	108.48	-29.60	196.75
	17.22	156.65	66.96	119.90	-32.51	217.47
2.15	21.57	168.67	73.66	129.17	-30.51	234.15
	19.65	152.61	66.71	116.87	-27.40	211.85
	17.73	136.55	59.76	104.57	-24.30	189.55
	15.81	120.48	52.81	92.27	-21.19	167.25
	13.89	104.42	45.86	79.96	-18.09	144.95
	11.96	88.35	38.91	67.66	-14.98	122.65
	10.04	72.29	31.97	55.36	-11.88	100.35
	8.12	56.22	25.02	43.06	-8.77	78.05
	6.20	40.16	18.07	30.76	-5.67	55.75
	4.28	24.10	11.12	18.45	-2.57	33.45
	2.36	8.03	4.17	6.15	0.54	11.15
	-0.40	7.43	2.57	5.69	-3.37	10.31
	1.38	22.28	8.99	17.06	-6.24	30.93
	3.15	37.13	15.42	28.44	-9.11	51.54
	4.93	51.98	21.84	39.81	-11.98	72.16
	6.71	66.84	28.26	51.18	-14.85	92.78
	8.48	81.69	34.69	62.56	-17.72	113.40
	10.26	96.54	41.11	73.93	-20.59	134.01
	12.04	111.39	47.54	85.31	-23.46	154.63
	13.81	126.24	53.96	96.68	-26.33	175.25
	15.59	141.10	60.39	108.05	-29.20	195.87
	17.37	155.95	66.81	119.43	-32.08	216.48
2.20	21.76	167.85	73.48	128.61	-29.95	232.99
	19.83	151.86	66.55	116.36	-26.90	210.80
	17.89	135.88	59.62	104.12	-23.84	188.61
	15.95	119.89	52.69	91.87	-20.79	166.42
	14.01	103.91	45.76	79.62	-17.73	144.23
	12.08	87.92	38.83	67.37	-14.68	122.04

	10.14	71.94	31.90	55.12	-11.62	99.85
	8.20	55.95	24.97	42.87	-8.57	77.66
	6.26	39.96	18.04	30.62	-5.51	55.47
	4.32	23.98	11.11	18.37	-2.46	33.28
	2.39	7.99	4.17	6.12	0.60	11.09
	-0.42	7.40	2.55	5.67	-3.38	10.27
	1.38	22.19	8.96	17.00	-6.21	30.80
	3.17	36.98	15.38	28.33	-9.04	51.33
	4.96	51.77	21.79	39.67	-11.86	71.86
	6.76	66.56	28.20	51.00	-14.69	92.40
	8.55	81.35	34.62	62.34	-17.52	112.93
	10.34	96.15	41.03	73.67	-20.34	133.46
	12.14	110.94	47.44	85.00	-23.17	153.99
	13.93	125.73	53.86	96.34	-26.00	174.52
	15.72	140.52	60.27	107.67	-28.82	195.06
	17.52	155.31	66.68	119.01	-31.65	215.59
	21.96	167.09	73.33	128.10	-29.41	231.92
	20.01	151.17	66.42	115.90	-26.41	209.83
	18.05	135.26	59.50	103.70	-23.40	187.75
	16.10	119.35	52.59	91.50	-20.39	165.66
	14.14	103.43	45.67	79.30	-17.39	143.57
	12.19	87.52	38.76	67.10	-14.38	121.48
	10.23	71.61	31.84	54.90	-11.37	99.40
	8.28	55.70	24.92	42.70	-8.36	77.31
	6.33	39.78	18.01	30.50	-5.36	55.22
	4.37	23.87	11.09	18.30	-2.35	33.13
	2.42	7.96	4.18	6.10	0.66	11.04
	-0.43	7.37	2.54	5.65	-3.39	10.23
	1.38	22.10	8.94	16.95	-6.18	30.68
	3.19	36.84	15.34	28.24	-8.96	51.14
	5.00	51.58	21.75	39.54	-11.75	71.59
	6.81	66.31	28.15	50.84	-14.53	92.05
	8.62	81.05	34.56	62.14	-17.32	112.50
	10.43	95.79	40.96	73.43	-20.10	132.95
	12.24	110.52	47.36	84.73	-22.89	153.41
	14.05	125.26	53.77	96.03	-25.67	173.86
	15.86	139.99	60.17	107.33	-28.46	194.32
	17.67	154.73	66.58	118.63	-31.24	214.77
	22.16	166.38	73.21	127.63	-28.89	230.93
	20.19	150.53	66.31	115.47	-25.93	208.94
	18.22	134.69	59.40	103.32	-22.97	186.94
	16.25	118.84	52.50	91.16	-20.01	164.95
	14.28	103.00	45.60	79.01	-17.05	142.96
	12.30	87.15	38.70	66.85	-14.09	120.96
	10.33	71.31	31.79	54.70	-11.13	98.97

	8.36	55.46	24.89	42.54	-8.17	76.98
	6.39	39.61	17.99	30.39	-5.21	54.98
	4.42	23.77	11.09	18.23	-2.24	32.99
	2.45	7.92	4.18	6.08	0.72	11.00
	-0.44	7.34	2.52	5.63	-3.41	10.19
	1.38	22.03	8.92	16.90	-6.15	30.58
	3.21	36.71	15.32	28.16	-8.89	50.96
	5.04	51.40	21.71	39.43	-11.64	71.34
	6.86	66.09	28.11	50.69	-14.38	91.73
	8.69	80.77	34.51	61.96	-17.12	112.11
	10.52	95.46	40.90	73.22	-19.87	132.49
	12.34	110.14	47.30	84.49	-22.61	152.88
	14.17	124.83	53.70	95.75	-25.36	173.26
	16.00	139.52	60.10	107.02	-28.10	193.64
	17.83	154.20	66.49	118.29	-30.84	214.03
	22.36	165.72	73.10	127.19	-28.37	230.01
	20.38	149.94	66.21	115.08	-25.46	208.10
	18.39	134.16	59.32	102.97	-22.55	186.20
	16.40	118.37	52.43	90.85	-19.63	164.29
	14.41	102.59	45.54	78.74	-16.72	142.39
	12.42	86.81	38.65	66.63	-13.80	120.48
	10.43	71.02	31.76	54.51	-10.89	98.58
	8.45	55.24	24.86	42.40	-7.97	76.67
	6.46	39.46	17.97	30.28	-5.06	54.76
	4.47	23.67	11.08	18.17	-2.14	32.86
	2.48	7.89	4.19	6.06	0.77	10.95
	-0.46	7.32	2.51	5.62	-3.42	10.16
	1.39	21.96	8.90	16.85	-6.12	30.48
	3.23	36.60	15.29	28.09	-8.83	50.80
	5.08	51.24	21.68	39.33	-11.53	71.12
	6.92	65.88	28.08	50.56	-14.24	91.44
	8.76	80.52	34.47	61.80	-16.94	111.75
	10.61	95.16	40.86	73.04	-19.64	132.07
	12.45	109.80	47.25	84.27	-22.35	152.39
	14.30	124.44	53.65	95.51	-25.05	172.71
	16.14	139.08	60.04	106.74	-27.75	193.03
	17.99	153.72	66.43	117.98	-30.46	213.35
	23.43	165.98	73.88	127.66	-27.02	230.31
	21.34	150.17	66.91	115.50	-24.23	208.38
	19.25	134.36	59.95	103.34	-21.44	186.45
	17.17	118.55	52.98	91.18	-18.65	164.51
	15.08	102.75	46.02	79.02	-15.86	142.58
	12.99	86.94	39.06	66.87	-13.07	120.64
	10.90	71.13	32.09	54.71	-10.28	98.71
	8.82	55.33	25.13	42.55	-7.50	76.77

	6.73	39.52	18.16	30.39	-4.71	54.84
	4.64	23.71	11.20	18.24	-1.92	32.90
	2.55	7.90	4.24	6.08	0.87	10.97
	-0.43	7.34	2.53	5.64	-3.40	10.18
	1.50	22.01	9.00	16.93	-5.99	30.54
	3.44	36.69	15.46	28.22	-8.58	50.91
	5.38	51.36	21.93	39.50	-11.16	71.27
	7.32	66.03	28.39	50.79	-13.75	91.63
	9.26	80.71	34.86	62.07	-16.34	111.99
	11.19	95.38	41.32	73.36	-18.93	132.36
	13.13	110.06	47.78	84.65	-21.52	152.72
	15.07	124.73	54.25	95.93	-24.11	173.08
	17.01	139.40	60.71	107.22	-26.70	193.44
	18.95	154.08	67.18	118.51	-29.29	213.81
	23.65	165.42	73.82	127.30	-26.52	229.54
2.45	21.54	149.67	66.86	115.18	-23.77	207.68
	19.44	133.92	59.90	103.06	-21.03	185.82
	17.33	118.16	52.95	90.93	-18.29	163.96
	15.22	102.41	45.99	78.81	-15.54	142.10
	13.12	86.65	39.03	66.68	-12.80	120.23
	11.01	70.90	32.08	54.56	-10.05	98.37
	8.91	55.14	25.12	42.43	-7.31	76.51
	6.80	39.39	18.16	30.31	-4.56	54.65
	4.69	23.63	11.20	18.19	-1.82	32.79
	2.59	7.88	4.25	6.06	0.93	10.93
	-0.45	7.32	2.52	5.63	-3.41	10.16
	1.51	21.96	8.98	16.90	-5.96	30.47
	3.47	36.59	15.45	28.16	-8.51	50.78
	5.42	51.23	21.91	39.43	-11.06	71.09
	7.38	65.87	28.38	50.69	-13.61	91.40
	9.34	80.51	34.84	61.95	-16.16	111.71
	11.30	95.14	41.30	73.22	-18.71	132.02
	13.25	109.78	47.77	84.48	-21.26	152.33
	15.21	124.42	54.23	95.75	-23.81	172.64
	17.17	139.06	60.70	107.01	-26.36	192.95
	19.12	153.69	67.16	118.28	-28.91	213.26
	23.87	164.92	73.78	126.98	-26.03	228.82
2.50	21.75	149.21	66.83	114.89	-23.33	207.03
	19.62	133.50	59.88	102.80	-20.63	185.24
	17.50	117.80	52.92	90.70	-17.93	163.44
	15.37	102.09	45.97	78.61	-15.22	141.65
	13.25	86.38	39.02	66.52	-12.52	119.86
	11.12	70.68	32.07	54.42	-9.82	98.07
	9.00	54.97	25.11	42.33	-7.12	76.27
	6.87	39.27	18.16	30.23	-4.42	54.48

	4.75	23.56	11.21	18.14	-1.72	32.69
	2.62	7.85	4.25	6.05	0.99	10.90
	-0.46	7.30	2.51	5.62	-3.43	10.13
	1.52	21.91	8.97	16.87	-5.94	30.40
	3.49	36.51	15.44	28.11	-8.45	50.66
	5.47	51.11	21.90	39.36	-10.96	70.92
	7.45	65.72	28.37	50.60	-13.48	91.19
	9.42	80.32	34.83	61.85	-15.99	111.45
	11.40	94.93	41.30	73.09	-18.50	131.71
	13.37	109.53	47.76	84.34	-21.01	151.98
	15.35	124.14	54.23	95.58	-23.52	172.24
	17.33	138.74	60.69	106.83	-26.04	192.50
	19.30	153.34	67.16	118.07	-28.55	212.77
	24.10	164.45	73.76	126.69	-25.55	228.16
	21.96	148.79	66.81	114.63	-22.89	206.43
	19.81	133.12	59.86	102.56	-20.23	184.70
	17.67	117.46	52.91	90.50	-17.57	162.97
	15.52	101.80	45.96	78.43	-14.91	141.24
	13.38	86.14	39.01	66.36	-12.25	119.51
	11.23	70.48	32.06	54.30	-9.60	97.78
	9.09	54.82	25.11	42.23	-6.94	76.05
	6.94	39.15	18.16	30.17	-4.28	54.32
	4.80	23.49	11.21	18.10	-1.62	32.59
	2.65	7.83	4.27	6.03	1.04	10.86
	-0.47	7.29	2.50	5.61	-3.44	10.11
	1.52	21.86	8.96	16.84	-5.92	30.33
	3.52	36.44	15.43	28.07	-8.39	50.55
	5.51	51.01	21.90	39.30	-10.87	70.77
	7.51	65.59	28.36	50.53	-13.34	90.99
	9.51	80.16	34.83	61.76	-15.82	111.22
	11.50	94.73	41.30	72.99	-18.29	131.44
	13.50	109.31	47.77	84.21	-20.77	151.66
	15.50	123.88	54.23	95.44	-23.24	171.88
	17.49	138.46	60.70	106.67	-25.72	192.10
	19.49	153.03	67.17	117.90	-28.19	212.32
	25.23	164.91	74.64	127.33	-24.19	228.76
	22.98	149.20	67.61	115.20	-21.65	206.97
	20.73	133.50	60.58	103.07	-19.12	185.18
	18.48	117.79	53.55	90.95	-16.59	163.40
	16.23	102.09	46.51	78.82	-14.06	141.61
	13.98	86.38	39.48	66.69	-11.52	119.82
	11.73	70.68	32.45	54.57	-8.99	98.04
	9.48	54.97	25.42	42.44	-6.46	76.25
	7.23	39.26	18.38	30.32	-3.92	54.47
	4.98	23.56	11.35	18.19	-1.39	32.68

	2.73	7.85	4.32	6.06	1.14	10.89
	-0.45	7.31	2.53	5.65	-3.42	10.15
	1.65	21.94	9.08	16.94	-5.78	30.44
	3.74	36.57	15.63	28.23	-8.14	50.73
	5.84	51.19	22.18	39.53	-10.50	71.02
	7.93	65.82	28.73	50.82	-12.86	91.31
	10.03	80.45	35.27	62.11	-15.22	111.60
	12.12	95.08	41.82	73.41	-17.57	131.89
	14.22	109.70	48.37	84.70	-19.93	152.18
	16.32	124.33	54.92	95.99	-22.29	172.47
	18.41	138.96	61.47	107.29	-24.65	192.76
	20.51	153.58	68.02	118.58	-27.01	213.05
	25.47	164.52	74.66	127.10	-23.72	228.21
	23.20	148.85	67.63	115.00	-21.22	206.47
	20.93	133.18	60.59	102.89	-18.73	184.74
	18.66	117.52	53.56	90.79	-16.24	163.00
	16.39	101.85	46.53	78.68	-13.75	141.27
	14.12	86.18	39.49	66.58	-11.26	119.54
	11.85	70.51	32.46	54.47	-8.77	97.80
	9.58	54.84	25.43	42.37	-6.28	76.07
	7.31	39.17	18.40	30.26	-3.79	54.33
	5.03	23.50	11.36	18.16	-1.29	32.60
2.65	2.76	7.83	4.33	6.05	1.20	10.87
	-0.46	7.30	2.52	5.64	-3.44	10.13
	1.66	21.91	9.07	16.92	-5.76	30.39
	3.77	36.51	15.63	28.21	-8.08	50.64
	5.89	51.11	22.18	39.49	-10.40	70.90
	8.01	65.72	28.74	50.77	-12.73	91.16
	10.12	80.32	35.29	62.05	-15.05	111.42
	12.24	94.93	41.85	73.34	-17.37	131.67
	14.36	109.53	48.40	84.62	-19.69	151.93
	16.47	124.14	54.96	95.90	-22.01	172.19
	18.59	138.74	61.51	107.18	-24.34	192.44
	20.71	153.34	68.07	118.46	-26.66	212.70
	25.72	164.17	74.69	126.90	-23.25	227.70
	23.43	148.53	67.65	114.81	-20.80	206.01
	21.13	132.90	60.62	102.73	-18.35	184.33
	18.84	117.26	53.58	90.64	-15.90	162.64
	16.55	101.63	46.55	78.56	-13.45	140.96
2.70	14.26	85.99	39.52	66.47	-11.00	119.27
	11.97	70.36	32.48	54.38	-8.55	97.59
	9.67	54.72	25.45	42.30	-6.10	75.90
	7.38	39.09	18.41	30.21	-3.65	54.21
	5.09	23.45	11.38	18.13	-1.20	32.53
	2.80	7.82	4.34	6.04	1.25	10.84

	-0.47	7.29	2.51	5.64	-3.45	10.11
	1.67	21.88	9.07	16.91	-5.74	30.34
	3.80	36.46	15.63	28.18	-8.03	50.57
	5.94	51.04	22.20	39.46	-10.31	70.80
	8.08	65.63	28.76	50.73	-12.60	91.03
	10.22	80.21	35.32	62.00	-14.88	111.26
	12.36	94.80	41.88	73.28	-17.17	131.48
	14.49	109.38	48.44	84.55	-19.46	151.71
	16.63	123.96	55.00	95.82	-21.74	171.94
	18.77	138.55	61.57	107.10	-24.03	192.17
	20.91	153.13	68.13	118.37	-26.31	212.40
	25.97	163.84	74.73	126.72	-22.79	227.24
	23.65	148.24	67.69	114.65	-20.38	205.60
	21.34	132.63	60.66	102.58	-17.97	183.95
	19.03	117.03	53.62	90.51	-15.56	162.31
	16.71	101.43	46.58	78.45	-13.15	140.67
	14.40	85.82	39.54	66.38	-10.74	119.03
	12.09	70.22	32.51	54.31	-8.33	97.39
	9.77	54.61	25.47	42.24	-5.92	75.75
	7.46	39.01	18.43	30.17	-3.51	54.10
	5.15	23.41	11.39	18.10	-1.10	32.46
	2.83	7.80	4.36	6.03	1.31	10.82
	-0.49	7.28	2.50	5.63	-3.47	10.10
	1.67	21.85	9.07	16.90	-5.72	30.30
	3.83	36.42	15.64	28.17	-7.97	50.51
	5.99	50.98	22.21	39.43	-10.22	70.71
	8.15	65.55	28.78	50.70	-12.47	90.91
	10.31	80.12	35.35	61.96	-14.72	111.12
	12.47	94.68	41.92	73.23	-16.97	131.32
	14.63	109.25	48.49	84.50	-19.22	151.52
	16.79	123.82	55.06	95.76	-21.47	171.72
	18.95	138.38	61.63	107.03	-23.72	191.93
	21.11	152.95	68.20	118.30	-25.97	212.13
	26.31	163.64	74.88	126.66	-22.25	226.94
	23.97	148.05	67.83	114.59	-19.89	205.33
	21.63	132.47	60.78	102.53	-17.52	183.71
	19.28	116.88	53.73	90.47	-15.16	162.10
	16.94	101.30	46.68	78.41	-12.80	140.49
	14.59	85.71	39.63	66.34	-10.44	118.87
	12.25	70.13	32.58	54.28	-8.08	97.26
	9.91	54.55	25.53	42.22	-5.72	75.65
	7.56	38.96	18.48	30.16	-3.35	54.03
	5.22	23.38	11.43	18.09	-0.99	32.42
	2.87	7.79	4.38	6.03	1.37	10.81
	-0.49	7.28	2.50	5.63	-3.49	10.10

	1.70	21.84	9.09	16.90	-5.69	30.29
	3.89	36.40	15.67	28.17	-7.90	50.48
	6.08	50.96	22.26	39.44	-10.11	70.67
	8.27	65.52	28.85	50.71	-12.31	90.86
	10.46	80.08	35.43	61.98	-14.52	111.06
	12.65	94.64	42.02	73.25	-16.73	131.25
	14.84	109.20	48.60	84.52	-18.93	151.44
	17.03	123.76	55.19	95.79	-21.14	171.63
	19.22	138.32	61.78	107.06	-23.34	191.82
	21.41	152.88	68.36	118.33	-25.55	212.02
	26.57	163.37	74.94	126.52	-21.80	226.55
	24.20	147.81	67.89	114.47	-19.48	204.98
	21.84	132.25	60.83	102.42	-17.16	183.40
	19.47	116.69	53.78	90.37	-14.83	161.82
	17.11	101.13	46.72	78.32	-12.51	140.25
	14.74	85.57	39.67	66.27	-10.19	118.67
	12.37	70.01	32.61	54.22	-7.87	97.09
	10.01	54.46	25.56	42.17	-5.54	75.52
	7.64	38.90	18.50	30.12	-3.22	53.94
	5.27	23.34	11.45	18.07	-0.90	32.36
	2.91	7.78	4.39	6.02	1.43	10.79
	-0.51	7.27	2.49	5.63	-3.50	10.09
	1.71	21.82	9.09	16.90	-5.68	30.26
	3.92	36.37	15.68	28.16	-7.85	50.43
	6.13	50.91	22.28	39.43	-10.02	70.61
	8.34	65.46	28.88	50.70	-12.19	90.78
	10.56	80.01	35.47	61.96	-14.36	110.95
	12.77	94.55	42.07	73.23	-16.53	131.12
	14.98	109.10	48.67	84.49	-18.71	151.30
	17.19	123.65	55.26	95.76	-20.88	171.47
	19.40	138.19	61.86	107.02	-23.05	191.64
	21.62	152.74	68.46	118.29	-25.22	211.82
	26.83	163.12	75.02	126.40	-21.36	226.20
	24.44	147.59	67.96	114.36	-19.08	204.66
	22.05	132.05	60.90	102.33	-16.79	183.12
	19.66	116.52	53.83	90.29	-14.51	161.57
	17.27	100.98	46.77	78.25	-12.22	140.03
	14.89	85.45	39.71	66.21	-9.94	118.49
	12.50	69.91	32.65	54.17	-7.66	96.94
	10.11	54.37	25.59	42.13	-5.37	75.40
	7.72	38.84	18.53	30.10	-3.09	53.86
	5.33	23.30	11.47	18.06	-0.80	32.31
	2.94	7.77	4.41	6.02	1.48	10.77
	-0.52	7.27	2.49	5.63	-3.52	10.08
	1.72	21.80	9.09	16.90	-5.66	30.24

	3.95	36.34	15.70	28.16	-7.80	50.39
	6.19	50.88	22.31	39.42	-9.93	70.55
	8.42	65.41	28.91	50.69	-12.07	90.71
	10.66	79.95	35.52	61.95	-14.21	110.86
	12.89	94.48	42.13	73.21	-16.35	131.02
	15.13	109.02	48.73	84.48	-18.48	151.18
	17.36	123.55	55.34	95.74	-20.62	171.33
	19.59	138.09	61.95	107.00	-22.76	191.49
	21.83	152.63	68.56	118.27	-24.90	211.65
2.95	27.09	162.90	75.11	126.30	-20.93	225.89
	24.68	147.39	68.04	114.27	-18.68	204.37
	22.27	131.87	60.97	102.25	-16.43	182.86
	19.86	116.36	53.90	90.22	-14.19	161.35
	17.44	100.84	46.83	78.19	-11.94	139.83
	15.03	85.33	39.76	66.16	-9.70	118.32
	12.62	69.82	32.69	54.13	-7.45	96.81
	10.21	54.30	25.63	42.10	-5.20	75.30
	7.80	38.79	18.56	30.07	-2.96	53.78
	5.39	23.27	11.49	18.04	-0.71	32.27
	2.98	7.76	4.42	6.01	1.54	10.76
	-0.53	7.26	2.48	5.63	-3.54	10.07
	1.73	21.79	9.10	16.89	-5.65	30.22
	3.98	36.32	15.72	28.16	-7.75	50.36
	6.24	50.84	22.33	39.42	-9.85	70.50
	8.50	65.37	28.95	50.68	-11.96	90.65
	10.76	79.90	35.57	61.95	-14.06	110.79
	13.01	94.42	42.19	73.21	-16.16	130.93
	15.27	108.95	48.81	84.47	-18.27	151.08
	17.53	123.48	55.43	95.74	-20.37	171.22
19.79	138.01	62.05	107.00	-22.47	191.36	
22.04	152.53	68.66	118.26	-24.58	211.51	
3.00	27.35	162.70	75.20	126.22	-20.50	225.60
	24.92	147.21	68.12	114.20	-18.29	204.11
	22.48	131.71	61.05	102.18	-16.08	182.63
	20.05	116.22	53.97	90.16	-13.87	161.14
	17.62	100.72	46.90	78.14	-11.66	139.66
	15.18	85.23	39.82	66.12	-9.45	118.17
	12.75	69.73	32.74	54.09	-7.24	96.69
	10.32	54.23	25.67	42.07	-5.03	75.20
	7.88	38.74	18.59	30.05	-2.83	53.71
	5.45	23.24	11.51	18.03	-0.62	32.23
	3.01	7.75	4.44	6.01	1.59	10.74
	-0.54	7.26	2.47	5.63	-3.56	10.07
	1.74	21.78	9.10	16.90	-5.63	30.20
	4.02	36.30	15.73	28.16	-7.70	50.33

	6.30	50.82	22.37	39.42	-9.77	70.46
	8.58	65.34	29.00	50.69	-11.84	90.60
	10.86	79.86	35.63	61.95	-13.91	110.73
	13.14	94.38	42.26	73.22	-15.98	130.86
	15.42	108.90	48.89	84.48	-18.05	150.99
	17.70	123.42	55.52	95.74	-20.12	171.13
	19.98	137.94	62.15	107.01	-22.19	191.26
	22.26	152.46	68.78	118.27	-24.26	211.39
3.05	27.62	162.53	75.30	126.16	-20.07	225.34
	25.16	147.05	68.22	114.14	-17.90	203.88
	22.70	131.57	61.13	102.13	-15.73	182.42
	20.25	116.09	54.05	90.11	-13.56	160.96
	17.79	100.61	46.96	78.10	-11.38	139.50
	15.33	85.13	39.88	66.08	-9.21	118.04
	12.88	69.65	32.79	54.07	-7.04	96.57
	10.42	54.18	25.71	42.05	-4.87	75.11
	7.96	38.70	18.62	30.04	-2.70	53.65
	5.51	23.22	11.54	18.02	-0.52	32.19
	3.05	7.74	4.45	6.01	1.65	10.73
	-0.56	7.26	2.47	5.63	-3.58	10.06
	1.75	21.77	9.11	16.90	-5.62	30.19
	4.05	36.29	15.76	28.17	-7.65	50.31
	6.35	50.80	22.40	39.43	-9.69	70.43
	8.66	65.31	29.04	50.70	-11.73	90.56
	10.96	79.83	35.69	61.96	-13.76	110.68
	13.27	94.34	42.33	73.23	-15.80	130.81
	15.57	108.86	48.97	84.50	-17.84	150.93
	17.87	123.37	55.62	95.76	-19.87	171.05
20.18	137.89	62.26	107.03	-21.91	191.18	
22.48	152.40	68.90	118.30	-23.95	211.30	
3.10	27.88	162.37	75.42	126.10	-19.65	225.11
	25.40	146.91	68.32	114.09	-17.51	203.67
	22.92	131.44	61.23	102.08	-15.38	182.23
	20.44	115.98	54.13	90.07	-13.24	160.79
	17.96	100.51	47.04	78.06	-11.11	139.35
	15.48	85.05	39.94	66.05	-8.97	117.92
	13.01	69.59	32.85	54.04	-6.84	96.48
	10.53	54.12	25.75	42.03	-4.70	75.04
	8.05	38.66	18.66	30.02	-2.57	53.60
	5.57	23.20	11.57	18.01	-0.43	32.16
	3.09	7.73	4.47	6.00	1.70	10.72
	-0.57	7.26	2.46	5.63	-3.60	10.06
	1.76	21.77	9.12	16.90	-5.60	30.18
	4.08	36.28	15.78	28.17	-7.61	50.29
	6.41	50.79	22.43	39.44	-9.61	70.41

	8.74	65.30	29.09	50.71	-11.61	90.53
	11.07	79.81	35.75	61.98	-13.62	110.65
	13.39	94.32	42.41	73.25	-15.62	130.76
	15.72	108.83	49.06	84.52	-17.63	150.88
	18.05	123.34	55.72	95.79	-19.63	171.00
	20.37	137.85	62.38	107.06	-21.63	191.12
	22.70	152.36	69.04	118.33	-23.64	211.24
	29.26	163.34	76.64	127.17	-18.13	226.40
3.15	26.65	147.78	69.43	115.06	-16.13	204.84
	24.04	132.22	62.22	102.95	-14.14	183.28
	21.43	116.67	55.01	90.84	-12.14	161.71
	18.83	101.11	47.80	78.73	-10.15	140.15
	16.22	85.56	40.59	66.61	-8.16	118.59
	13.61	70.00	33.38	54.50	-6.16	97.03
	11.00	54.45	26.17	42.39	-4.17	75.47
	8.39	38.89	18.96	30.28	-2.18	53.90
	5.78	23.33	11.75	18.17	-0.18	32.34
	3.17	7.78	4.54	6.06	1.81	10.78
	-0.53	7.30	2.51	5.69	-3.57	10.12
	1.92	21.91	9.28	17.06	-5.44	30.37
	4.37	36.52	16.05	28.43	-7.31	50.62
	6.82	51.13	22.82	39.81	-9.19	70.86
	9.27	65.73	29.59	51.18	-11.06	91.11
	11.71	80.34	36.36	62.55	-12.93	111.36
	14.16	94.95	43.13	73.93	-14.80	131.61
	16.61	109.55	49.90	85.30	-16.67	151.85
	19.06	124.16	56.67	96.67	-18.55	172.10
	21.51	138.77	63.44	108.04	-20.42	192.35
	23.96	153.38	70.21	119.42	-22.29	212.59
	29.54	163.23	76.78	127.16	-17.70	226.24
3.20	26.91	147.68	69.56	115.05	-15.74	204.69
	24.28	132.14	62.34	102.94	-13.79	183.14
	21.64	116.59	55.12	90.83	-11.83	161.60
	19.01	101.04	47.89	78.72	-9.87	140.05
	16.38	85.50	40.67	66.61	-7.92	118.50
	13.74	69.95	33.45	54.50	-5.96	96.96
	11.11	54.41	26.23	42.39	-4.00	75.41
	8.48	38.86	19.00	30.28	-2.05	53.87
	5.84	23.32	11.78	18.17	-0.09	32.32
	3.21	7.77	4.56	6.06	1.86	10.77
	-0.54	7.30	2.50	5.69	-3.59	10.12
	1.93	21.91	9.29	17.07	-5.43	30.37
	4.40	36.52	16.08	28.45	-7.27	50.62
	6.88	51.13	22.86	39.83	-9.11	70.86
	9.35	65.73	29.65	51.21	-10.94	91.11

	11.83	80.34	36.44	62.59	-12.78	111.35
	14.30	94.95	43.22	73.97	-14.62	131.60
	16.78	109.56	50.01	85.35	-16.46	151.85
	19.25	124.16	56.80	96.73	-18.30	172.09
	21.72	138.77	63.58	108.11	-20.14	192.34
	24.20	153.38	70.37	119.49	-21.97	212.59
3.25	29.83	163.13	76.93	127.16	-17.28	226.09
	27.17	147.60	69.69	115.05	-15.36	204.56
	24.51	132.06	62.46	102.94	-13.44	183.03
	21.85	116.52	55.22	90.83	-11.52	161.50
	19.19	100.99	47.99	78.72	-9.60	139.96
	16.54	85.45	40.75	66.61	-7.68	118.43
	13.88	69.91	33.52	54.50	-5.76	96.90
	11.22	54.38	26.28	42.39	-3.84	75.36
	8.56	38.84	19.05	30.28	-1.92	53.83
	5.91	23.30	11.81	18.17	0.00	32.30
	3.25	7.77	4.58	6.06	1.92	10.77
	-0.56	7.30	2.50	5.69	-3.61	10.12
	1.94	21.91	9.30	17.08	-5.42	30.37
	4.44	36.52	16.11	28.47	-7.22	50.62
	6.94	51.13	22.91	39.86	-9.03	70.87
	9.44	65.74	29.71	51.24	-10.83	91.11
	11.94	80.35	36.52	62.63	-12.64	111.36
	14.44	94.96	43.32	74.02	-14.44	131.61
	16.94	109.57	50.12	85.41	-16.25	151.86
	19.44	124.18	56.93	96.80	-18.05	172.10
21.94	138.79	63.73	108.18	-19.86	192.35	
24.43	153.39	70.53	119.57	-21.66	212.60	
3.30	30.11	163.06	77.08	127.17	-16.86	225.98
	27.43	147.53	69.83	115.06	-14.98	204.45
	24.75	132.00	62.59	102.95	-13.09	182.93
	22.06	116.47	55.34	90.84	-11.21	161.41
	19.38	100.94	48.09	78.73	-9.33	139.89
	16.70	85.41	40.84	66.61	-7.44	118.37
	14.02	69.88	33.59	54.50	-5.56	96.85
	11.33	54.35	26.34	42.39	-3.68	75.33
	8.65	38.82	19.09	30.28	-1.79	53.80
	5.97	23.29	11.85	18.17	0.09	32.28
	3.29	7.76	4.60	6.06	1.98	10.76
	-0.57	7.31	2.50	5.70	-3.63	10.13
	1.96	21.92	9.32	17.09	-5.40	30.38
	4.48	36.53	16.14	28.49	-7.18	50.63
	7.00	51.14	22.96	39.89	-8.95	70.88
	9.53	65.75	29.78	51.28	-10.72	91.13
12.05	80.36	36.60	62.68	-12.49	111.38	

	14.58	94.98	43.42	74.08	-14.26	131.63
	17.10	109.59	50.24	85.47	-16.04	151.88
	19.63	124.20	57.06	96.87	-17.81	172.13
	22.15	138.81	63.88	108.27	-19.58	192.38
	24.67	153.42	70.70	119.66	-21.35	212.63
	31.55	164.15	78.40	128.35	-15.29	227.44
	28.74	148.51	71.02	116.13	-13.55	205.78
	25.92	132.88	63.65	103.90	-11.81	184.11
	23.10	117.25	56.28	91.68	-10.08	162.45
	20.28	101.62	48.91	79.46	-8.34	140.79
	17.47	85.98	41.53	67.23	-6.60	119.13
	14.65	70.35	34.16	55.01	-4.86	97.47
	11.83	54.72	26.79	42.78	-3.13	75.81
	9.01	39.08	19.42	30.56	-1.39	54.15
	6.20	23.45	12.04	18.34	0.35	32.49
	3.38	7.82	4.67	6.11	2.09	10.83
	-0.53	7.36	2.54	5.75	-3.60	10.20
	2.13	22.08	9.49	17.26	-5.24	30.59
	4.78	36.80	16.43	28.77	-6.87	50.99
	7.43	51.52	23.37	40.28	-8.51	71.38
	10.08	66.24	30.31	51.79	-10.14	91.78
	12.74	80.96	37.25	63.30	-11.78	112.17
	15.39	95.68	44.19	74.81	-13.41	132.56
	18.04	110.40	51.14	86.32	-15.05	152.96
	20.70	125.11	58.08	97.83	-16.69	173.35
	23.35	139.83	65.02	109.34	-18.32	193.75
	26.00	154.55	71.96	120.85	-19.96	214.14
3.35	31.85	164.11	78.57	128.40	-14.87	227.37
	29.01	148.48	71.19	116.17	-13.16	205.72
	26.17	132.85	63.80	103.94	-11.46	184.06
	23.32	117.22	56.41	91.71	-9.76	162.41
	20.48	101.59	49.02	79.49	-8.06	140.75
	17.64	85.96	41.63	67.26	-6.36	119.10
	14.79	70.33	34.24	55.03	-4.66	97.45
	11.95	54.70	26.86	42.80	-2.96	75.79
	9.10	39.07	19.47	30.57	-1.26	54.14
	6.26	23.44	12.08	18.34	0.44	32.48
	3.42	7.81	4.69	6.11	2.14	10.83
	-0.54	7.36	2.54	5.76	-3.62	10.20
	2.14	22.09	9.50	17.28	-5.22	30.60
	4.82	36.81	16.46	28.80	-6.82	51.01
	7.50	51.54	23.42	40.32	-8.43	71.41
	10.18	66.27	30.39	51.85	-10.03	91.81
	12.86	80.99	37.35	63.37	-11.63	112.21
	15.54	95.72	44.31	74.89	-13.23	132.61
3.40						

	18.22	110.44	51.27	86.41	-14.83	153.02
	20.90	125.17	58.23	97.93	-16.44	173.42
	23.58	139.89	65.19	109.45	-18.04	193.82
	26.25	154.62	72.15	120.97	-19.64	214.22
3.45	32.16	164.09	78.76	128.46	-14.44	227.33
	29.29	148.46	71.35	116.22	-12.78	205.68
	26.42	132.83	63.95	103.99	-11.12	184.03
	23.55	117.21	56.54	91.75	-9.45	162.38
	20.68	101.58	49.14	79.52	-7.79	140.73
	17.81	85.95	41.73	67.29	-6.12	119.08
	14.94	70.32	34.33	55.05	-4.46	97.43
	12.06	54.70	26.93	42.82	-2.80	75.78
	9.19	39.07	19.52	30.58	-1.13	54.13
	6.32	23.44	12.12	18.35	0.53	32.48
	3.45	7.81	4.71	6.12	2.20	10.83
	-0.55	7.37	2.54	5.77	-3.64	10.21
	2.16	22.10	9.52	17.30	-5.21	30.62
	4.86	36.83	16.50	28.83	-6.78	51.03
	7.57	51.57	23.48	40.37	-8.35	71.44
	10.27	66.30	30.46	51.90	-9.91	91.85
	12.98	81.03	37.44	63.44	-11.48	112.26
	15.69	95.76	44.42	74.97	-13.05	132.67
	18.39	110.50	51.40	86.50	-14.62	153.08
	21.10	125.23	58.38	98.04	-16.19	173.49
	23.80	139.96	65.37	109.57	-17.76	193.91
	26.51	154.70	72.35	121.10	-19.33	214.32
	32.57	164.19	79.05	128.63	-13.92	227.45
	29.66	148.55	71.62	116.38	-12.30	205.79
26.75	132.91	64.19	104.13	-10.68	184.13	
23.85	117.28	56.76	91.88	-9.06	162.46	
20.94	101.64	49.33	79.63	-7.45	140.80	
18.03	86.00	41.90	67.38	-5.83	119.14	
15.13	70.37	34.46	55.13	-4.21	97.48	
12.22	54.73	27.03	42.88	-2.60	75.82	
9.31	39.09	19.60	30.63	-0.98	54.15	
6.40	23.46	12.17	18.38	0.64	32.49	
3.50	7.82	4.74	6.13	2.26	10.83	
-0.56	7.38	2.54	5.78	-3.65	10.22	
2.19	22.13	9.55	17.34	-5.18	30.65	
4.93	36.88	16.56	28.89	-6.71	51.09	
7.67	51.63	23.57	40.45	-8.23	71.52	
10.41	66.38	30.58	52.01	-9.76	91.96	
13.16	81.13	37.59	63.56	-11.28	112.39	
15.90	95.88	44.61	75.12	-12.81	132.83	
18.64	110.63	51.62	86.68	-14.33	153.26	

	21.38	125.38	58.63	98.23	-15.86	173.69
	24.13	140.13	65.64	109.79	-17.39	194.13
	26.87	154.89	72.65	121.35	-18.91	214.56
3.55	32.88	164.19	79.25	128.71	-13.50	227.44
	29.94	148.55	71.80	116.45	-11.92	205.78
	27.01	132.92	64.35	104.19	-10.34	184.12
	24.07	117.28	56.90	91.94	-8.76	162.46
	21.14	101.64	49.45	79.68	-7.17	140.80
	18.21	86.00	42.00	67.42	-5.59	119.14
	15.27	70.37	34.56	55.16	-4.01	97.48
	12.34	54.73	27.11	42.90	-2.43	75.81
	9.40	39.09	19.66	30.65	-0.85	54.15
	6.47	23.46	12.21	18.39	0.73	32.49
	3.54	7.82	4.76	6.13	2.31	10.83
	-0.57	7.38	2.54	5.79	-3.67	10.22
	2.20	22.14	9.57	17.36	-5.17	30.67
	4.97	36.90	16.60	28.93	-6.66	51.12
	7.74	51.66	23.63	40.50	-8.15	71.56
	10.51	66.42	30.67	52.07	-9.64	92.01
	13.28	81.18	37.70	63.64	-11.14	112.46
	16.05	95.94	44.73	75.21	-12.63	132.90
	18.82	110.70	51.76	86.78	-14.12	153.35
	21.59	125.46	58.79	98.35	-15.61	173.80
	24.36	140.22	65.82	109.92	-17.11	194.24
	27.13	154.98	72.85	121.49	-18.60	214.69
3.60	33.18	164.20	79.45	128.80	-13.08	227.45
	30.22	148.57	71.98	116.53	-11.54	205.79
	27.26	132.93	64.52	104.26	-9.99	184.13
	24.30	117.29	57.05	92.00	-8.45	162.46
	21.34	101.65	49.58	79.73	-6.90	140.80
	18.38	86.01	42.12	67.46	-5.36	119.14
	15.42	70.37	34.65	55.20	-3.81	97.48
	12.46	54.73	27.18	42.93	-2.27	75.82
	9.50	39.10	19.71	30.67	-0.72	54.15
	6.53	23.46	12.25	18.40	0.82	32.49
	3.57	7.82	4.78	6.13	2.37	10.83
	-0.58	7.39	2.54	5.79	-3.70	10.23
	2.22	22.16	9.59	17.38	-5.15	30.69
	5.01	36.93	16.64	28.96	-6.61	51.15
	7.81	51.70	23.70	40.55	-8.07	71.61
	10.61	66.47	30.75	52.13	-9.53	92.07
	13.40	81.24	37.80	63.72	-10.99	112.53
	16.20	96.01	44.85	75.31	-12.45	132.99
	19.00	110.78	51.91	86.89	-13.91	153.45
	21.79	125.55	58.96	98.48	-15.37	173.91

	24.59	140.32	66.01	110.06	-16.83	194.37
	27.39	155.09	73.06	121.65	-18.29	214.83
3.65	33.49	164.23	79.65	128.89	-12.67	227.47
	30.50	148.59	72.17	116.61	-11.16	205.81
	27.52	132.95	64.68	104.34	-9.65	184.15
	24.53	117.31	57.20	92.06	-8.14	162.48
	21.54	101.67	49.71	79.79	-6.63	140.82
	18.55	86.03	42.23	67.51	-5.12	119.15
	15.56	70.38	34.74	55.24	-3.61	97.49
	12.58	54.74	27.26	42.96	-2.10	75.82
	9.59	39.10	19.77	30.69	-0.60	54.16
	6.60	23.46	12.29	18.41	0.91	32.50
	3.61	7.82	4.80	6.14	2.42	10.83
	-0.59	7.39	2.54	5.80	-3.72	10.24
	2.23	22.17	9.61	17.40	-5.14	30.71
	5.06	36.95	16.68	29.00	-6.57	51.19
	7.88	51.74	23.76	40.60	-8.00	71.66
	10.71	66.52	30.83	52.20	-9.42	92.13
	13.53	81.30	37.91	63.80	-10.85	112.61
	16.35	96.08	44.98	75.41	-12.27	133.08
	19.18	110.86	52.05	87.01	-13.70	153.56
	22.00	125.65	59.13	98.61	-15.13	174.03
	24.82	140.43	66.20	110.21	-16.55	194.50
	27.65	155.21	73.28	121.81	-17.98	214.98
3.70	33.80	164.27	79.86	128.99	-12.26	227.51
	30.79	148.62	72.36	116.71	-10.78	205.84
	27.77	132.98	64.86	104.42	-9.31	184.18
	24.76	117.33	57.35	92.14	-7.84	162.51
	21.74	101.69	49.85	79.85	-6.36	140.84
	18.73	86.04	42.34	67.57	-4.89	119.17
	15.71	70.40	34.84	55.28	-3.42	97.51
	12.70	54.76	27.34	43.00	-1.94	75.84
	9.68	39.11	19.83	30.71	-0.47	54.17
	6.67	23.47	12.33	18.43	1.00	32.50
	3.65	7.82	4.82	6.14	2.48	10.83
	-0.60	7.40	2.53	5.81	-3.74	10.24
	2.25	22.19	9.63	17.43	-5.13	30.73
	5.10	36.98	16.73	29.04	-6.52	51.22
	7.95	51.78	23.82	40.66	-7.92	71.71
	10.80	66.57	30.92	52.28	-9.31	92.20
	13.65	81.37	38.01	63.89	-10.70	112.69
	16.51	96.16	45.11	75.51	-12.10	133.18
	19.36	110.95	52.21	87.13	-13.49	153.67
	22.21	125.75	59.30	98.74	-14.88	174.16
25.06	140.54	66.40	110.36	-16.28	194.65	

	27.91	155.33	73.49	121.98	-17.67	215.14
3.75	34.11	164.31	80.08	129.10	-11.85	227.56
	31.07	148.66	72.55	116.81	-10.41	205.89
	28.03	133.02	65.03	104.51	-8.97	184.22
	24.99	117.37	57.51	92.22	-7.53	162.55
	21.94	101.72	49.98	79.92	-6.10	140.87
	18.90	86.07	42.46	67.63	-4.66	119.20
	15.86	70.42	34.94	55.33	-3.22	97.53
	12.82	54.77	27.42	43.03	-1.78	75.85
	9.77	39.12	19.89	30.74	-0.34	54.18
	6.73	23.47	12.37	18.44	1.10	32.51
	3.69	7.82	4.85	6.15	2.53	10.84
	-0.61	7.40	2.53	5.82	-3.76	10.25
	2.27	22.21	9.65	17.45	-5.12	30.76
	5.15	37.02	16.77	29.08	-6.48	51.26
	8.02	51.82	23.89	40.72	-7.84	71.77
	10.90	66.63	31.01	52.35	-9.20	92.28
	13.78	81.44	38.12	63.98	-10.56	112.78
	16.66	96.24	45.24	75.62	-11.92	133.29
	19.54	111.05	52.36	87.25	-13.28	153.79
	22.42	125.85	59.48	98.89	-14.64	174.30
25.30	140.66	66.60	110.52	-16.00	194.81	
28.17	155.47	73.72	122.15	-17.37	215.31	
3.80	34.43	164.37	80.30	129.22	-11.44	227.63
	31.36	148.71	72.75	116.91	-10.04	205.95
	28.29	133.06	65.21	104.61	-8.64	184.27
	25.22	117.41	57.67	92.30	-7.23	162.59
	22.15	101.75	50.12	79.99	-5.83	140.91
	19.08	86.10	42.58	67.69	-4.43	119.23
	16.01	70.44	35.04	55.38	-3.02	97.56
	12.94	54.79	27.50	43.07	-1.62	75.88
	9.87	39.14	19.95	30.77	-0.22	54.20
	6.80	23.48	12.41	18.46	1.19	32.52
	3.73	7.83	4.87	6.15	2.59	10.84
	-0.62	7.41	2.53	5.83	-3.78	10.26
	2.28	22.23	9.67	17.48	-5.11	30.79
	5.19	37.05	16.81	29.13	-6.44	51.31
	8.10	51.87	23.95	40.78	-7.76	71.83
	11.00	66.69	31.09	52.43	-9.09	92.36
	13.91	81.51	38.24	64.08	-10.42	112.88
	16.81	96.33	45.38	75.73	-11.75	133.40
	19.72	111.15	52.52	87.38	-13.08	153.93
	22.63	125.97	59.66	99.03	-14.40	174.45
25.53	140.79	66.80	110.68	-15.73	194.97	
28.44	155.61	73.94	122.33	-17.06	215.50	

3.85	34.74	164.43	80.52	129.34	-11.04	227.71
	31.64	148.77	72.95	117.03	-9.67	206.02
	28.55	133.11	65.39	104.71	-8.30	184.33
	25.45	117.45	57.83	92.39	-6.93	162.65
	22.35	101.79	50.27	80.07	-5.56	140.96
	19.25	86.13	42.70	67.75	-4.20	119.27
	16.16	70.47	35.14	55.43	-2.83	97.59
	13.06	54.81	27.58	43.11	-1.46	75.90
	9.96	39.15	20.02	30.80	-0.09	54.22
	6.86	23.49	12.45	18.48	1.28	32.53
	3.77	7.83	4.89	6.16	2.64	10.84
	-0.63	7.42	2.53	5.83	-3.80	10.27
	2.30	22.25	9.69	17.50	-5.10	30.81
	5.23	37.08	16.86	29.17	-6.39	51.35
	8.17	51.92	24.02	40.84	-7.69	71.90
	11.10	66.75	31.19	52.51	-8.98	92.44
	14.03	81.59	38.35	64.18	-10.28	112.98
	16.97	96.42	45.51	75.84	-11.57	133.52
	19.90	111.25	52.68	87.51	-12.87	154.06
	22.84	126.09	59.84	99.18	-14.17	174.61
25.77	140.92	67.00	110.85	-15.46	195.15	
28.70	155.76	74.17	122.52	-16.76	215.69	
3.90	36.47	165.92	82.15	130.88	-9.22	229.70
	33.21	150.12	74.43	118.42	-8.02	207.82
	29.95	134.31	66.72	105.95	-6.82	185.95
	26.69	118.51	59.00	93.49	-5.63	164.07
	23.43	102.71	51.28	81.02	-4.43	142.19
	20.17	86.91	43.57	68.56	-3.23	120.32
	16.91	71.11	35.85	56.09	-2.03	98.44
	13.65	55.31	28.13	43.63	-0.83	76.57
	10.39	39.50	20.41	31.16	0.37	54.69
	7.13	23.70	12.70	18.70	1.57	32.81
	3.87	7.90	4.98	6.23	2.77	10.94
	-0.58	7.49	2.59	5.91	-3.76	10.37
	2.51	22.46	9.91	17.72	-4.89	31.10
	5.60	37.44	17.22	29.53	-6.03	51.83
	8.68	52.42	24.54	41.35	-7.17	72.57
	11.77	67.39	31.85	53.16	-8.30	93.30
	14.86	82.37	39.16	64.98	-9.44	114.03
	17.95	97.34	46.48	76.79	-10.57	134.76
	21.04	112.32	53.79	88.60	-11.71	155.50
	24.13	127.30	61.11	100.42	-12.85	176.23
27.22	142.27	68.42	112.23	-13.98	196.96	
30.31	157.25	75.73	124.05	-15.12	217.70	
3.95	36.79	166.01	82.39	131.04	-8.81	229.82

	33.51	150.20	74.66	118.56	-7.64	207.93
	30.22	134.39	66.92	106.08	-6.48	186.04
	26.93	118.58	59.18	93.60	-5.32	164.16
	23.64	102.77	51.44	81.12	-4.15	142.27
	20.35	86.96	43.70	68.64	-2.99	120.38
	17.07	71.15	35.96	56.16	-1.83	98.49
	13.78	55.34	28.22	43.68	-0.67	76.61
	10.49	39.53	20.48	31.20	0.50	54.72
	7.20	23.72	12.74	18.72	1.66	32.83
	3.91	7.91	5.00	6.24	2.82	10.94
	-0.59	7.50	2.59	5.92	-3.78	10.38
	2.53	22.49	9.93	17.75	-4.88	31.13
	5.64	37.48	17.27	29.58	-5.98	51.89
	8.76	52.47	24.61	41.42	-7.09	72.64
	11.88	67.47	31.95	53.25	-8.19	93.40
	15.00	82.46	39.29	65.09	-9.29	114.15
	18.12	97.45	46.63	76.92	-10.39	134.91
	21.23	112.44	53.96	88.75	-11.50	155.66
	24.35	127.44	61.30	100.59	-12.60	176.42
	27.47	142.43	68.64	112.42	-13.70	197.17
	30.59	157.42	75.98	124.26	-14.80	217.93
	37.13	166.12	82.64	131.19	-8.39	229.95
4.00	33.81	150.30	74.88	118.70	-7.26	208.05
	30.49	134.47	67.12	106.20	-6.14	186.15
	27.17	118.65	59.36	93.71	-5.01	164.25
	23.86	102.83	51.60	81.21	-3.88	142.35
	20.54	87.01	43.83	68.72	-2.76	120.45
	17.22	71.19	36.07	56.23	-1.63	98.55
	13.90	55.37	28.31	43.73	-0.50	76.65
	10.59	39.55	20.55	31.24	0.62	54.75
	7.27	23.73	12.79	18.74	1.75	32.85
	3.95	7.91	5.03	6.25	2.88	10.95
	-0.60	7.50	2.59	5.93	-3.80	10.39
	2.54	22.51	9.96	17.78	-4.87	31.17
	5.69	37.52	17.32	29.64	-5.94	51.94
	8.84	52.53	24.68	41.49	-7.01	72.72
	11.99	67.54	32.05	53.34	-8.08	93.50
	15.13	82.55	39.41	65.20	-9.14	114.28
	18.28	97.56	46.78	77.05	-10.21	135.06
	21.43	112.57	54.14	88.91	-11.28	155.83
	24.58	127.58	61.50	100.76	-12.35	176.61
	27.72	142.59	68.87	112.62	-13.42	197.39
	30.87	157.60	76.23	124.47	-14.49	218.17
4.05	37.46	166.23	82.89	131.36	-7.98	230.09
	34.11	150.40	75.11	118.85	-6.89	208.18

	30.76	134.56	67.32	106.34	-5.79	186.26
	27.42	118.73	59.54	93.83	-4.70	164.35
	24.07	102.90	51.75	81.32	-3.61	142.44
	20.72	87.07	43.97	68.81	-2.52	120.52
	17.38	71.24	36.19	56.30	-1.43	98.61
	14.03	55.41	28.40	43.79	-0.34	76.70
	10.69	39.58	20.62	31.28	0.75	54.78
	7.34	23.75	12.84	18.77	1.84	32.87
	3.99	7.92	5.05	6.26	2.93	10.96
	-0.61	7.51	2.59	5.94	-3.82	10.40
	2.56	22.54	9.98	17.81	-4.86	31.20
	5.74	37.57	17.37	29.69	-5.89	52.00
	8.92	52.60	24.76	41.56	-6.93	72.81
	12.09	67.63	32.15	53.44	-7.96	93.61
	15.27	82.65	39.54	65.31	-9.00	114.41
	18.45	97.68	46.93	77.19	-10.03	135.21
	21.62	112.71	54.32	89.06	-11.07	156.01
	24.80	127.74	61.70	100.94	-12.11	176.81
	27.98	142.76	69.09	112.82	-13.14	197.61
	31.15	157.79	76.48	124.69	-14.18	218.42
	39.26	167.81	84.61	132.99	-6.10	232.22
	35.74	151.83	76.66	120.32	-5.18	210.11
	32.22	135.85	68.72	107.66	-4.27	187.99
	28.71	119.86	60.77	94.99	-3.35	165.87
	25.19	103.88	52.82	82.33	-2.44	143.76
	21.68	87.90	44.88	69.66	-1.52	121.64
	18.16	71.92	36.93	57.00	-0.60	99.52
	14.65	55.94	28.98	44.33	0.31	77.41
	11.13	39.95	21.04	31.66	1.23	55.29
	7.62	23.97	13.09	19.00	2.14	33.17
	4.10	7.99	5.15	6.33	3.06	11.06
	-0.56	7.59	2.66	6.01	-3.77	10.50
	2.78	22.77	10.21	18.04	-4.64	31.51
	6.12	37.95	17.75	30.07	-5.51	52.51
	9.46	53.13	25.30	42.10	-6.38	73.52
	12.80	68.30	32.85	54.13	-7.25	94.52
	16.14	83.48	40.40	66.16	-8.12	115.53
	19.47	98.66	47.94	78.19	-8.99	136.53
	22.81	113.84	55.49	90.22	-9.86	157.54
	26.15	129.02	63.04	102.25	-10.73	178.54
	29.49	144.20	70.58	114.28	-11.60	199.55
	32.83	159.38	78.13	126.31	-12.47	220.55
4.10	39.60	167.95	84.88	133.18	-5.67	232.40
	36.06	151.95	76.91	120.49	-4.79	210.27
	32.51	135.96	68.94	107.81	-3.92	188.13
4.15						

	28.96	119.96	60.97	95.13	-3.04	166.00
	25.42	103.97	53.00	82.44	-2.16	143.87
	21.87	87.97	45.02	69.76	-1.28	121.73
	18.33	71.98	37.05	57.08	-0.40	99.60
	14.78	55.98	29.08	44.39	0.48	77.47
	11.23	39.99	21.11	31.71	1.36	55.33
	7.69	23.99	13.14	19.03	2.24	33.20
	4.14	8.00	5.17	6.34	3.12	11.07
	-0.57	7.60	2.66	6.03	-3.80	10.52
	2.80	22.80	10.24	18.08	-4.63	31.55
	6.17	38.00	17.81	30.13	-5.47	52.58
	9.54	53.20	25.38	42.18	-6.30	73.61
	12.91	68.40	32.96	54.24	-7.14	94.64
	16.28	83.59	40.53	66.29	-7.97	115.67
	19.65	98.79	48.11	78.34	-8.81	136.71
	23.02	113.99	55.68	90.39	-9.64	157.74
	26.39	129.19	63.25	102.44	-10.48	178.77
	29.76	144.39	70.83	114.50	-11.31	199.80
	33.13	159.59	78.40	126.55	-12.15	220.83
	39.95	168.10	85.15	133.37	-5.25	232.59
	36.37	152.09	77.16	120.67	-4.41	210.44
	32.80	136.08	69.16	107.97	-3.57	188.29
	29.22	120.07	61.16	95.27	-2.72	166.14
	25.64	104.06	53.17	82.56	-1.88	143.99
	22.07	88.05	45.17	69.86	-1.04	121.83
	18.49	72.04	37.18	57.16	-0.20	99.68
	14.91	56.03	29.18	44.46	0.65	77.53
	11.34	40.02	21.19	31.76	1.49	55.38
	7.76	24.01	13.19	19.05	2.33	33.23
	4.18	8.00	5.20	6.35	3.17	11.08
	-0.58	7.61	2.66	6.04	-3.82	10.53
	2.82	22.83	10.26	18.11	-4.62	31.59
	6.22	38.05	17.86	30.19	-5.42	52.65
	9.62	53.27	25.47	42.27	-6.22	73.71
	13.02	68.49	33.07	54.34	-7.02	94.77
	16.43	83.71	40.67	66.42	-7.82	115.83
	19.83	98.93	48.27	78.49	-8.62	136.89
	23.23	114.15	55.87	90.57	-9.42	157.95
	26.63	129.37	63.47	102.64	-10.22	179.00
	30.03	144.59	71.07	114.72	-11.02	200.06
	33.43	159.81	78.68	126.80	-11.82	221.12
4.20	40.43	168.37	85.55	133.70	-4.70	232.96
	36.81	152.34	77.52	120.96	-3.91	210.77
	33.19	136.30	69.49	108.23	-3.11	188.59
	29.57	120.27	61.45	95.50	-2.32	166.40
4.25						

	25.95	104.23	53.42	82.76	-1.53	144.21
	22.33	88.20	45.39	70.03	-0.73	122.03
	18.71	72.16	37.36	57.30	0.06	99.84
	15.09	56.12	29.32	44.57	0.85	77.65
	11.47	40.09	21.29	31.83	1.65	55.47
	7.85	24.05	13.26	19.10	2.44	33.28
	4.23	8.02	5.23	6.37	3.23	11.09
	-0.58	7.63	2.67	6.06	-3.83	10.55
	2.86	22.88	10.31	18.17	-4.59	31.65
	6.30	38.13	17.95	30.28	-5.34	52.76
	9.75	53.38	25.59	42.39	-6.09	73.86
	13.19	68.64	33.23	54.50	-6.85	94.96
	16.63	83.89	40.87	66.61	-7.60	116.07
	20.08	99.14	48.51	78.72	-8.36	137.17
	23.52	114.39	56.15	90.83	-9.11	158.27
	26.96	129.65	63.79	102.94	-9.87	179.37
	30.40	144.90	71.43	115.05	-10.62	200.48
	33.85	160.15	79.07	127.17	-11.38	221.58
	40.78	168.53	85.83	133.90	-4.28	233.17
	37.13	152.48	77.77	121.15	-3.52	210.96
	33.48	136.43	69.72	108.39	-2.76	188.75
	29.83	120.38	61.66	95.64	-2.01	166.55
	26.17	104.33	53.60	82.89	-1.25	144.34
	22.52	88.28	45.54	70.14	-0.49	122.14
	18.87	72.23	37.48	57.39	0.26	99.93
	15.22	56.18	29.43	44.63	1.02	77.72
	11.57	40.13	21.37	31.88	1.78	55.52
	7.92	24.08	13.31	19.13	2.53	33.31
	4.27	8.03	5.25	6.38	3.29	11.10
	-0.59	7.64	2.67	6.07	-3.85	10.57
	2.88	22.91	10.34	18.20	-4.57	31.70
	6.36	38.19	18.01	30.34	-5.29	52.83
	9.83	53.46	25.67	42.47	-6.01	73.96
	13.31	68.73	33.34	54.61	-6.73	95.09
	16.78	84.01	41.01	66.74	-7.45	116.23
	20.25	99.28	48.68	78.88	-8.17	137.36
	23.73	114.56	56.35	91.01	-8.89	158.49
	27.20	129.83	64.02	103.15	-9.61	179.62
	30.68	145.10	71.68	115.28	-10.33	200.75
	34.15	160.38	79.35	127.42	-11.05	221.89
	41.13	168.70	86.11	134.11	-3.86	233.38
	37.45	152.63	78.03	121.34	-3.14	211.16
	33.77	136.57	69.95	108.56	-2.41	188.93
	30.08	120.50	61.86	95.79	-1.69	166.70
	26.40	104.43	53.78	83.02	-0.97	144.48

	22.72	88.37	45.70	70.25	-0.25	122.25
	19.04	72.30	37.61	57.47	0.47	100.02
	15.36	56.23	29.53	44.70	1.19	77.79
	11.68	40.17	21.44	31.93	1.91	55.57
	7.99	24.10	13.36	19.16	2.63	33.34
	4.31	8.03	5.28	6.39	3.35	11.11
	-0.60	7.65	2.67	6.08	-3.87	10.58
	2.91	22.94	10.37	18.24	-4.56	31.74
	6.41	38.24	18.06	30.40	-5.24	52.90
	9.92	53.54	25.76	42.56	-5.93	74.07
	13.42	68.83	33.46	54.72	-6.61	95.23
	16.93	84.13	41.15	66.88	-7.30	116.39
	20.43	99.43	48.85	79.04	-7.99	137.55
	23.94	114.72	56.55	91.20	-8.67	158.71
	27.44	130.02	64.24	103.36	-9.36	179.87
	30.95	145.32	71.94	115.52	-10.04	201.03
	34.45	160.61	79.63	127.68	-10.73	222.20
4.40	41.48	168.87	86.40	134.32	-3.43	233.61
	37.77	152.79	78.29	121.53	-2.75	211.36
	34.06	136.70	70.18	108.74	-2.07	189.11
	30.34	120.62	62.07	95.94	-1.38	166.86
	26.63	104.54	53.96	83.15	-0.70	144.61
	22.92	88.46	45.85	70.36	-0.02	122.37
	19.20	72.37	37.74	57.57	0.67	100.12
	15.49	56.29	29.63	44.77	1.35	77.87
	11.78	40.21	21.52	31.98	2.04	55.62
	8.07	24.12	13.41	19.19	2.72	33.37
	4.35	8.04	5.30	6.40	3.40	11.12
	-0.61	7.66	2.67	6.09	-3.89	10.60
	2.93	22.98	10.40	18.28	-4.54	31.79
	6.46	38.30	18.12	30.46	-5.20	52.98
	10.00	53.62	25.85	42.65	-5.85	74.17
	13.54	68.94	33.57	54.83	-6.50	95.36
	17.07	84.25	41.30	67.02	-7.15	116.55
	20.61	99.57	49.02	79.20	-7.80	137.75
	24.15	114.89	56.74	91.39	-8.45	158.94
	27.68	130.21	64.47	103.57	-9.10	180.13
31.22	145.53	72.19	115.76	-9.75	201.32	
34.76	160.85	79.92	127.94	-10.40	222.51	
4.45	41.84	169.05	86.69	134.54	-3.01	233.84
	38.09	152.95	78.55	121.72	-2.37	211.57
	34.35	136.85	70.41	108.91	-1.72	189.30
	30.60	120.75	62.28	96.10	-1.07	167.03
	26.86	104.65	54.14	83.29	-0.42	144.76
	23.12	88.55	46.01	70.47	0.22	122.49

	19.37	72.45	37.87	57.66	0.87	100.22
	15.63	56.35	29.74	44.85	1.52	77.95
	11.88	40.25	21.60	32.03	2.16	55.68
	8.14	24.15	13.46	19.22	2.81	33.41
	4.39	8.05	5.33	6.41	3.46	11.14
	-0.62	7.67	2.67	6.11	-3.91	10.61
	2.95	23.01	10.43	18.32	-4.53	31.83
	6.52	38.36	18.18	30.53	-5.15	53.06
	10.08	53.70	25.93	42.74	-5.76	74.28
	13.65	69.04	33.69	54.95	-6.38	95.50
	17.22	84.38	41.44	67.16	-7.00	116.72
	20.79	99.72	49.19	79.37	-7.61	137.95
	24.36	115.07	56.94	91.58	-8.23	159.17
	27.92	130.41	64.70	103.79	-8.85	180.39
	31.49	145.75	72.45	116.00	-9.47	201.61
	35.06	161.09	80.20	128.21	-10.08	222.84
4.50	42.19	169.23	86.98	134.76	-2.59	234.08
	38.42	153.11	78.81	121.92	-1.98	211.79
	34.64	137.00	70.65	109.09	-1.37	189.49
	30.86	120.88	62.49	96.26	-0.76	167.20
	27.09	104.76	54.33	83.42	-0.15	144.91
	23.31	88.64	46.17	70.59	0.46	122.61
	19.54	72.53	38.00	57.75	1.07	100.32
	15.76	56.41	29.84	44.92	1.68	78.03
	11.99	40.29	21.68	32.09	2.29	55.73
	8.21	24.18	13.52	19.25	2.90	33.44
	4.44	8.06	5.35	6.42	3.52	11.15
	-0.63	7.68	2.68	6.12	-3.93	10.63
	2.97	23.05	10.46	18.35	-4.52	31.88
	6.57	38.41	18.24	30.59	-5.10	53.13
	10.17	53.78	26.02	42.82	-5.68	74.39
	13.77	69.14	33.80	55.06	-6.26	95.64
	17.37	84.51	41.58	67.30	-6.85	116.90
	20.97	99.88	49.37	79.53	-7.43	138.15
	24.57	115.24	57.15	91.77	-8.01	159.40
	28.17	130.61	64.93	104.00	-8.59	180.66
31.77	145.97	72.71	116.24	-9.18	201.91	
35.37	161.34	80.49	128.47	-9.76	223.16	

A2.2.- SECCIONES TRANSVERSALES FINALES DE LOS ELEMENTOS DE LAS CERCHAS

Una vez se realizan todos los cálculos se obtiene la sección eficaz para cada altura y división del cordón de la cercha y se ordena de forma descendente en función de su peso. En la Tabla 33 se muestran las secciones transversales finales de los elementos para todas las cerchas, con sus respectivos pesos.

Tabla 33. Secciones transversales de cada elemento de la población de cerchas en análisis

hcercha (m)	Cordón inferior		Cordón superior		Montante		Diagonal		Peso (T)	Num. div.
	b (cm)	h(cm)	b (cm)	h(cm)	b (cm)	h(cm)	b (cm)	h(cm)		
1.15	24	10	24	10	10	10	10	10	5.06	20
1.05	24	10	24	11	10	10	10	10	5.08	18
1.30	24	10	24	10	10	10	10	10	5.08	18
1.20	24	10	24	10	10	10	10	10	5.11	20
0.90	24	10	24	11	10	10	10	10	5.11	22
1.10	24	10	24	10	10	10	10	10	5.11	22
1.10	24	10	24	11	10	10	10	10	5.11	18
1.00	24	10	24	11	10	10	10	10	5.12	20
1.35	24	10	24	10	10	10	10	10	5.12	18
0.90	24	10	24	12	10	10	10	10	5.15	18
1.25	24	10	24	10	10	10	10	10	5.15	20
1.15	24	10	24	11	10	10	10	10	5.15	18
0.95	24	10	24	11	10	10	10	10	5.15	22
1.20	24	10	26	10	10	10	10	10	5.16	18
1.05	24	10	24	11	10	10	10	10	5.16	20
1.15	24	10	24	10	10	10	10	10	5.16	22
1.40	24	10	24	10	10	10	10	10	5.16	18
1.00	24	10	26	10	10	10	10	10	5.17	22
1.10	24	10	26	10	10	10	10	10	5.17	20
0.85	24	10	24	12	10	10	10	10	5.18	20
1.20	24	10	24	11	10	10	11	10	5.18	16
0.95	24	10	24	12	10	10	10	10	5.18	18
1.30	24	10	24	10	10	10	10	10	5.19	20
1.25	24	10	26	10	10	10	10	10	5.19	18
0.80	24	10	24	12	10	10	10	10	5.20	22
1.45	24	10	24	10	10	10	10	10	5.20	18
0.90	24	10	26	11	10	10	10	10	5.20	20
1.00	24	10	26	11	10	10	10	10	5.20	18
1.20	24	10	24	10	10	10	10	10	5.21	22
1.50	24	10	24	10	10	10	11	10	5.21	16
1.05	24	10	26	10	10	10	10	10	5.21	22
1.25	24	10	24	11	10	10	11	10	5.21	16
0.85	24	10	26	11	10	10	10	10	5.23	22
1.35	24	10	24	10	10	10	10	10	5.23	20
1.50	24	10	24	10	10	10	10	10	5.24	18
0.95	24	10	26	11	10	10	10	10	5.24	20

1.55	24	10	24	10	10	10	11	10	5.24	16
1.30	24	10	24	11	10	10	11	10	5.25	16
1.35	24	10	26	10	10	10	11	10	5.25	16
1.25	24	10	24	10	10	10	10	10	5.25	22
0.75	24	10	24	13	10	10	10	10	5.28	20
1.55	24	10	24	10	10	10	10	10	5.28	18
1.40	24	10	24	10	10	10	10	10	5.28	20
1.60	24	10	24	10	10	10	11	10	5.28	16
1.40	24	10	26	10	10	10	11	10	5.29	16
0.70	24	10	24	13	10	10	10	10	5.29	22
1.40	24	10	24	11	10	10	11	11	5.30	14
1.30	24	10	24	10	10	10	10	10	5.30	22
1.00	24	10	24	12	10	10	12	10	5.31	16
0.80	24	10	24	13	10	10	10	10	5.31	20
1.65	24	10	24	10	10	10	11	10	5.32	16
1.60	24	10	24	10	10	10	10	10	5.32	18
1.45	24	10	26	10	10	10	11	10	5.32	16
1.45	24	10	24	10	10	10	10	10	5.32	20
1.45	24	10	24	11	10	10	11	11	5.33	14
0.75	24	10	24	13	10	10	10	10	5.33	22
0.80	24	10	24	13	10	10	11	10	5.34	18
1.75	24	10	24	10	10	10	11	11	5.34	14
1.05	24	10	24	12	10	10	12	10	5.34	16
1.35	24	10	24	10	10	10	10	10	5.35	22
1.70	24	10	24	10	10	10	11	10	5.35	16
1.20	24	10	24	12	10	10	11	11	5.36	14
1.65	24	10	24	10	10	10	10	10	5.36	18
1.50	24	10	24	11	10	10	11	11	5.36	14
1.10	24	10	26	11	10	10	12	10	5.36	16
1.50	24	10	24	10	10	10	10	10	5.37	20
0.85	24	10	24	13	10	10	11	10	5.37	18
1.80	24	10	24	10	10	10	11	11	5.37	14
1.25	24	10	24	12	10	10	11	11	5.38	14
1.75	24	10	24	10	10	10	11	10	5.39	16
1.55	24	10	24	11	10	10	11	11	5.39	14
1.60	24	10	26	10	10	10	11	11	5.39	14
1.15	24	10	26	11	10	10	12	10	5.40	16
1.70	24	10	24	10	10	10	10	10	5.40	18
1.40	24	10	24	10	10	10	10	10	5.40	22
1.30	24	10	26	11	10	10	11	11	5.40	14
1.85	24	10	24	10	10	10	11	11	5.41	14
1.55	24	10	24	10	10	10	10	10	5.41	20
0.70	24	10	24	14	10	10	10	10	5.42	20
1.15	24	10	24	12	10	10	12	11	5.42	14
0.65	24	10	24	14	10	10	10	10	5.42	22

1.65	24	10	26	10	10	10	11	11	5.42	14
1.80	24	10	24	10	10	10	11	10	5.42	16
1.35	24	10	26	11	10	10	11	11	5.43	14
0.90	24	10	24	13	10	10	11	11	5.43	16
1.75	24	10	24	10	10	10	10	10	5.44	18
1.90	24	10	24	10	10	10	11	11	5.44	14
1.45	24	10	24	10	10	10	10	10	5.45	22
0.95	24	10	24	13	10	10	12	10	5.45	16
1.60	24	10	24	10	10	10	10	10	5.45	20
1.70	24	10	26	10	10	10	11	11	5.46	14
1.85	24	10	24	10	10	10	11	10	5.46	16
1.95	24	10	24	10	10	10	11	11	5.47	14
1.80	24	10	24	10	10	10	10	10	5.48	18
1.50	24	10	24	10	10	10	10	10	5.50	22
1.65	24	10	24	10	10	10	10	10	5.50	20
2.00	24	10	24	10	10	10	11	11	5.51	14
1.00	24	10	24	13	10	10	12	11	5.51	14
1.85	24	10	24	10	10	10	10	10	5.52	18
0.70	24	10	24	14	10	10	12	10	5.53	18
1.05	24	10	24	13	10	10	12	11	5.54	14
2.05	24	10	24	10	10	10	11	11	5.54	14
0.80	24	10	24	14	10	10	11	11	5.54	16
1.70	24	10	24	10	10	10	10	10	5.54	20
1.55	24	10	24	10	10	10	10	10	5.54	22
1.40	24	10	24	12	10	10	12	12	5.55	12
1.90	24	10	24	10	10	10	10	10	5.56	18
0.75	24	10	24	14	10	10	12	10	5.56	18
0.60	24	10	24	15	10	10	10	10	5.56	22
1.75	24	10	24	11	10	10	13	11	5.56	12
1.10	24	10	24	13	10	10	12	11	5.56	14
2.10	24	10	24	10	10	10	11	11	5.57	14
0.85	24	10	24	14	10	10	11	11	5.57	16
1.45	24	10	24	12	10	10	12	12	5.58	12
1.75	24	10	24	10	10	10	10	10	5.59	20
1.80	24	10	24	11	10	10	13	11	5.59	12
1.60	24	10	24	10	10	10	10	10	5.59	22
1.95	24	10	24	10	10	10	10	10	5.60	18
1.90	24	10	24	10	10	10	12	10	5.60	16
2.15	24	10	24	10	10	10	11	11	5.61	14
1.50	24	10	24	12	10	10	12	12	5.61	12
1.85	24	10	24	11	10	10	13	11	5.62	12
1.20	24	10	24	13	10	10	12	12	5.63	12
1.80	24	10	24	10	10	10	10	10	5.63	20
0.65	24	10	24	15	10	10	11	10	5.64	20
1.55	24	10	24	12	10	10	12	12	5.64	12

2.20	24	10	24	10	10	10	11	11	5.64	14
1.95	24	10	24	10	10	10	12	10	5.64	16
1.65	24	10	24	10	10	10	10	10	5.64	22
1.60	24	10	26	11	10	10	12	12	5.65	12
1.25	24	10	24	13	10	10	12	12	5.65	12
1.90	24	10	24	11	10	10	13	11	5.65	12
2.20	24	10	24	10	10	10	12	12	5.67	12
2.25	24	10	24	10	10	10	11	11	5.68	14
1.30	24	10	24	13	10	10	12	12	5.68	12
1.65	24	10	26	11	10	10	12	12	5.68	12
1.85	24	10	24	10	10	10	10	10	5.68	20
1.95	24	10	24	11	10	10	13	11	5.68	12
2.00	24	10	24	10	10	10	12	10	5.68	16
0.85	24	10	24	14	10	10	12	12	5.69	14
1.70	24	10	24	10	10	10	10	10	5.69	22
2.25	24	10	24	10	10	10	12	12	5.70	12
1.35	24	10	24	13	10	10	12	12	5.70	12
1.70	24	10	26	11	10	10	12	12	5.71	12
2.30	24	10	24	10	10	10	11	11	5.71	14
2.00	24	10	24	11	10	10	13	11	5.71	12
2.05	24	10	26	10	10	10	13	11	5.71	12
0.90	24	10	24	14	10	10	13	11	5.71	14
2.05	24	10	24	10	10	10	12	10	5.72	16
1.90	24	10	24	10	10	10	10	10	5.73	20
2.30	24	10	24	10	10	10	12	12	5.73	12
0.95	24	10	24	14	10	10	13	11	5.74	14
0.60	26	10	24	15	10	10	11	10	5.75	20
1.75	24	10	24	10	10	10	10	10	5.75	22
2.10	24	10	26	10	10	10	12	12	5.75	12
2.00	24	10	24	10	10	10	11	10	5.76	18
2.35	24	10	24	10	10	10	12	12	5.76	12
2.10	24	10	24	10	10	10	12	10	5.76	16
1.95	24	10	24	10	10	10	10	10	5.77	20
0.75	24	10	24	15	10	10	12	11	5.78	16
2.15	24	10	26	10	10	10	12	12	5.78	12
2.40	24	10	24	10	10	10	12	12	5.79	12
1.80	24	10	24	10	10	10	10	10	5.80	22
2.05	24	10	24	10	10	10	11	10	5.80	18
2.15	24	10	24	10	10	10	12	10	5.80	16
2.00	24	10	24	10	10	10	10	10	5.82	20
2.45	24	10	24	10	10	10	12	12	5.82	12
1.05	24	10	24	14	10	10	13	12	5.82	12
0.65	26	10	24	15	10	10	11	11	5.82	18
2.20	24	10	24	10	10	10	12	10	5.84	16
2.10	24	10	24	10	10	10	11	10	5.84	18

0.55	26	10	24	16	10	10	10	10	5.84	22
1.85	24	10	24	10	10	10	10	10	5.85	22
1.10	24	10	24	14	10	10	13	12	5.85	12
2.50	24	10	24	10	10	10	12	12	5.85	12
1.85	24	10	24	12	10	10	13	13	5.86	10
2.35	24	10	24	10	10	10	12	11	5.87	14
2.05	24	10	24	10	10	10	10	10	5.87	20
1.15	24	10	24	14	10	10	13	12	5.87	12
1.90	24	10	24	12	10	10	13	13	5.88	10
2.55	24	10	24	10	10	10	12	12	5.88	12
2.15	24	10	24	10	10	10	11	10	5.89	18
1.55	24	10	24	13	10	10	13	13	5.89	10
2.25	24	10	24	10	10	10	11	11	5.89	16
1.00	24	10	24	14	10	10	14	12	5.89	12
0.70	26	10	24	15	10	10	12	11	5.89	16
1.90	24	10	24	10	10	10	10	10	5.90	22
2.40	24	10	24	10	10	10	12	11	5.90	14
2.30	24	10	24	11	10	10	14	12	5.90	10
1.95	24	10	24	12	10	10	13	13	5.91	10
1.60	24	10	24	13	10	10	13	13	5.91	10
2.10	24	10	24	10	10	10	10	10	5.91	20
2.60	24	10	24	10	10	10	12	12	5.92	12
2.20	24	10	24	10	10	10	11	10	5.93	18
2.30	24	10	24	10	10	10	11	11	5.93	16
2.35	24	10	24	11	10	10	14	12	5.93	10
2.00	24	10	24	12	10	10	13	13	5.93	10
1.65	24	10	24	13	10	10	13	13	5.94	10
2.45	24	10	24	10	10	10	12	11	5.94	14
2.65	24	10	24	10	10	10	12	12	5.95	12
1.95	24	10	24	10	10	10	10	10	5.95	22
2.05	24	10	24	12	10	10	14	12	5.95	10
2.40	24	10	24	11	10	10	14	12	5.96	10
2.15	24	10	24	10	10	10	10	10	5.96	20
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3.35	24	10	24	10	10	10	13	11	7.52	18
3.20	24	10	24	10	10	10	12	11	7.53	20
3.85	24	10	24	10	10	10	14	12	7.55	14
3.10	24	10	24	10	10	10	11	11	7.56	22
1.05	24	12	26	17	10	10	16	16	7.56	8
1.10	24	12	26	17	10	10	16	16	7.58	8
3.40	24	10	24	10	10	10	12	12	7.59	18
4.25	24	10	24	10	10	10	14	13	7.59	12
3.25	24	10	24	10	10	10	12	11	7.59	20
1.20	26	11	26	17	10	10	17	15	7.59	8
3.90	24	10	24	10	10	10	14	12	7.60	14
1.15	24	12	26	17	10	10	16	16	7.60	8
4.30	24	10	24	10	10	10	14	13	7.63	12
3.65	24	10	24	10	10	10	13	12	7.63	16
3.95	24	10	24	10	10	10	14	12	7.64	14
3.45	24	10	24	10	10	10	12	12	7.64	18
4.35	24	10	24	10	10	10	14	13	7.67	12
3.70	24	10	24	10	10	10	13	12	7.68	16
4.00	24	10	24	10	10	10	14	12	7.68	14
3.50	24	10	24	10	10	10	12	12	7.69	18
0.75	24	13	28	17	10	10	15	15	7.70	10
4.40	24	10	24	10	10	10	14	13	7.71	12
3.75	24	10	24	10	10	10	13	12	7.73	16
4.05	24	10	24	10	10	10	13	13	7.75	14
3.55	24	10	24	10	10	10	12	12	7.75	18
4.45	24	10	24	10	10	10	14	13	7.75	12

3.80	24	10	24	10	10	10	13	12	7.78	16
0.60	24	13	28	18	10	10	15	14	7.78	12
4.50	24	10	24	10	10	10	14	13	7.79	12
4.10	24	10	24	10	10	10	13	13	7.79	14
3.60	24	10	24	10	10	10	12	12	7.80	18
3.15	24	10	24	10	10	10	12	11	7.82	22
3.85	24	10	24	10	10	10	13	12	7.83	16
4.15	24	10	24	10	10	10	13	13	7.84	14
3.30	24	10	24	10	10	10	13	11	7.84	20
3.65	24	10	24	10	10	10	12	12	7.85	18
4.20	24	10	24	10	10	10	13	13	7.88	14
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3.35	24	10	24	10	10	10	13	11	7.90	20
3.70	24	10	24	10	10	10	12	12	7.91	18
4.25	24	10	24	10	10	10	13	13	7.93	14
3.25	24	10	24	10	10	10	12	11	7.95	22
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3.40	24	10	24	10	10	10	13	11	7.96	20
4.30	24	10	24	10	10	10	13	13	7.97	14
0.70	24	13	28	18	10	10	16	15	8.00	10
3.30	24	10	24	10	10	10	12	11	8.01	22
4.35	24	10	24	10	10	10	13	13	8.02	14
3.45	24	10	24	10	10	10	12	12	8.04	20
4.40	24	10	24	10	10	10	13	13	8.06	14
3.90	24	10	24	10	10	10	14	12	8.08	16
1.00	24	13	28	17	10	10	17	16	8.09	8
3.50	24	10	24	10	10	10	12	12	8.10	20
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4.45	24	10	24	10	10	10	13	13	8.11	14
3.95	24	10	24	10	10	10	14	12	8.13	16
3.55	24	10	24	10	10	10	12	12	8.16	20
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3.60	24	10	24	10	10	10	12	12	8.22	20
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4.05	24	10	24	10	10	10	14	12	8.24	16
3.65	24	10	24	10	10	10	12	12	8.28	20
3.35	24	10	24	10	10	10	13	11	8.29	22
3.85	24	10	24	10	10	10	13	12	8.29	18
0.55	24	14	30	18	10	10	16	14	8.30	12
4.10	24	10	24	10	10	10	13	13	8.31	16
3.70	24	10	24	10	10	10	12	12	8.34	20
3.90	24	10	24	10	10	10	13	12	8.35	18
3.40	24	10	24	10	10	10	13	11	8.36	22
4.15	24	10	24	10	10	10	13	13	8.36	16
4.50	24	10	24	10	10	10	14	13	8.38	14

0.90	24	13	28	18	10	10	17	17	8.39	8
3.75	24	10	24	10	10	10	12	12	8.40	20
0.95	24	13	28	18	10	10	18	16	8.40	8
3.95	24	10	24	10	10	10	13	12	8.40	18
4.20	24	10	24	10	10	10	13	13	8.41	16
3.45	24	10	24	10	10	10	13	11	8.42	22
3.80	24	10	24	10	10	10	12	12	8.46	20
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3.50	24	10	24	10	10	10	12	12	8.51	22
4.30	24	10	24	10	10	10	13	13	8.52	16
0.65	24	14	30	18	10	10	16	16	8.54	10
4.35	24	10	24	10	10	10	13	13	8.57	16
3.55	24	10	24	10	10	10	12	12	8.57	22
4.40	24	10	24	10	10	10	13	13	8.62	16
0.50	24	14	30	19	10	10	16	15	8.62	12
0.85	24	13	30	18	10	10	17	17	8.63	8
3.60	24	10	24	10	10	10	12	12	8.64	22
4.45	24	10	24	10	10	10	13	13	8.67	16
4.00	24	10	24	10	10	10	14	12	8.69	18
3.65	24	10	24	10	10	10	12	12	8.71	22
4.05	24	10	24	10	10	10	14	12	8.75	18
3.85	24	10	24	10	10	10	13	12	8.76	20
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4.10	24	10	24	10	10	10	14	12	8.81	18
3.90	24	10	24	10	10	10	13	12	8.83	20
3.75	24	10	24	10	10	10	12	12	8.84	22
0.60	24	14	30	19	10	10	17	16	8.86	10
3.95	24	10	24	10	10	10	13	12	8.89	20
4.15	24	10	24	10	10	10	13	13	8.89	18
3.80	24	10	24	10	10	10	12	12	8.90	22
4.20	24	10	24	10	10	10	13	13	8.95	18
4.00	24	10	24	10	10	10	13	12	8.95	20
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4.30	24	10	24	10	10	10	13	13	9.07	18
4.35	24	10	24	10	10	10	13	13	9.13	18
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4.40	24	10	24	10	10	10	13	13	9.19	18
4.45	24	10	24	10	10	10	13	13	9.25	18
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4.05	24	10	24	10	10	10	14	12	9.27	20
4.50	24	10	24	10	10	10	13	13	9.31	18
3.90	24	10	24	10	10	10	13	12	9.31	22
4.10	24	10	24	10	10	10	14	12	9.34	20

0.55	24	15	30	20	10	10	18	16	9.36	10
3.95	24	10	24	10	10	10	13	12	9.38	22
4.15	24	10	24	10	10	10	14	12	9.40	20
4.00	24	10	24	10	10	10	13	12	9.45	22
4.20	24	10	24	10	10	10	13	13	9.49	20
4.05	24	10	24	10	10	10	13	12	9.52	22
4.25	24	10	24	10	10	10	13	13	9.56	20
4.30	24	10	24	10	10	10	13	13	9.63	20
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4.40	24	10	24	10	10	10	13	13	9.76	20
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4.50	24	10	24	10	10	10	13	13	9.89	20
4.15	24	10	24	10	10	10	14	12	9.94	22
4.20	24	10	24	10	10	10	14	12	10.02	22
4.25	24	10	24	10	10	10	13	13	10.11	22
0.65	24	15	32	20	10	10	20	18	10.18	8
4.30	24	10	24	10	10	10	13	13	10.19	22
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4.35	24	10	24	10	10	10	13	13	10.26	22
4.40	24	10	24	10	10	10	13	13	10.33	22
4.45	24	10	24	10	10	10	13	13	10.41	22
4.50	24	10	24	10	10	10	13	13	10.48	22
0.60	24	16	36	20	10	10	19	19	10.94	8
0.55	24	16	38	20	10	10	21	19	11.50	8
0.50	26	17	44	20	10	10	21	20	12.94	8