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# Proyecto básico para el concurso del puente de acceso sur al parque de Tempelhof, Berlín. Solución A.

## Trabajo final de grado

### Anejo Nº4. Diseño y comprobación de la estructura

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## I. Objeto

El objeto del presente Anejo consiste en, una vez ya justificada la elección de la propuesta final, exponer los razonamientos y mostrar los cálculos que fundamentan el correcto dimensionamiento de la solución adoptada, así como el cumplimiento de las condiciones de estabilidad, resistencia, rigidez, durabilidad o de cualquier otro aspecto de forma que podamos asegurar su correcto comportamiento en servicio.

## II. Descripción de la estructura

### II.1. Condiciones fundamentales de la estructura

Se trata de un puente que se desarrolla entre el P.K 0+81.200 (apoyo Estribo E-1) y el P.K. 0+139.840 (apoyo Estribo 2) aproximadamente del trazado, por lo que tiene una longitud aproximada de 60 metros. El alzado se desarrolla con una pendiente de entrada de +3.5% y una pendiente de salida de -3%, unidas mediante un acuerdo vertical parabólico. La anchura del puente es constante de 25.5 metros.

La solución adoptada es un puente arco de tablero inferior, atirantado por el propio tablero, el cual se sustenta mediante tirantes que cuelgan del arco.

Los estribos y la cimentación serán definidos y calculados en el anejo de cálculos geotécnicos.

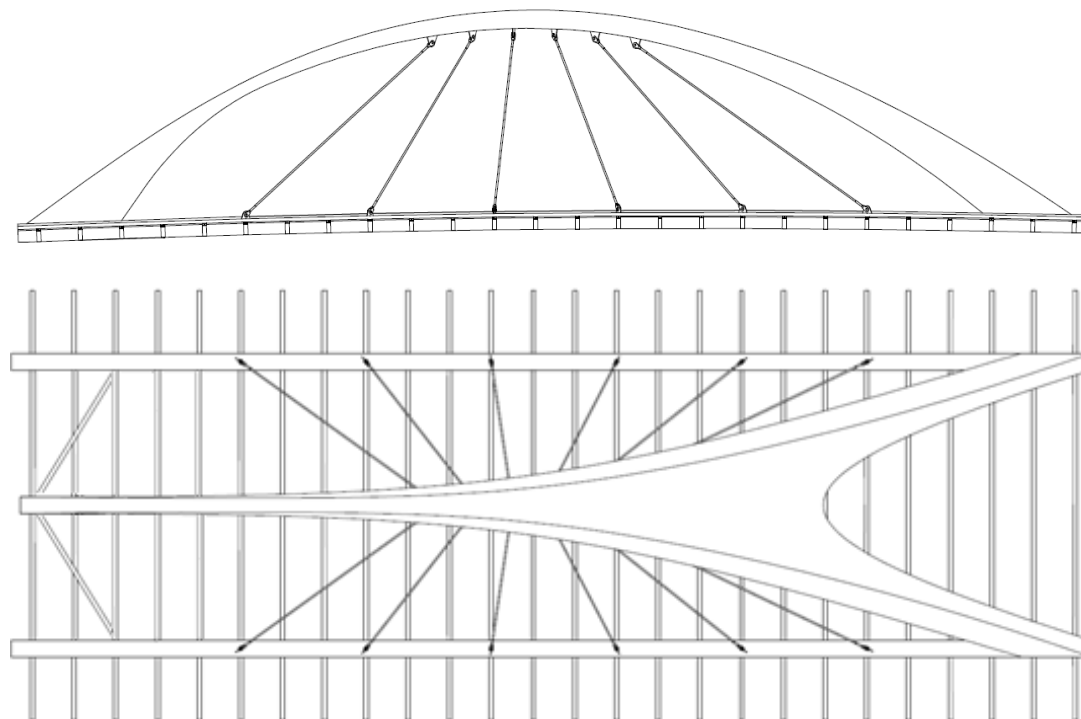


Figura 1. ALZADO Y PLANTA ESTRUCTURALES DEL PUENTE.

### II.2. Arco

El arco es el elemento resistente principal de la estructura. Se trata de un arco metálico embebido dentro de un arco de hormigón, dando lugar a un arco mixto. Tiene además la peculiaridad de que parte de un apoyo y acaba separándose en dos, de manera que apoya en tres puntos.

El alzado de la directriz del arco sigue la ecuación de la parábola:

$$y = -0.0133x^2 + 0.8x$$

La bifurcación del arco sigue la curva que se crea al intersectar una parábola extruida en el espacio con un sólido curvo, dando lugar a una parábola alabeada en el espacio.

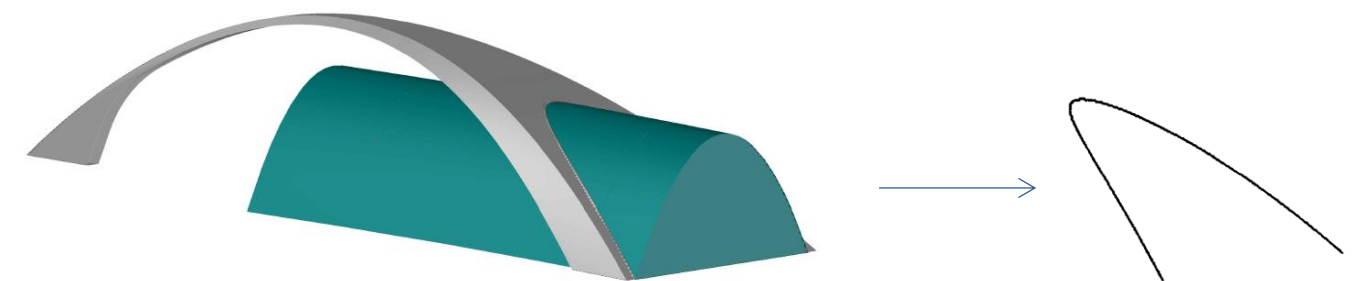


Figura 2. INTERSECCIÓN ARCO CON PARÁBOLA EXTRUIDA

La ecuación de la parábola extruida es:

$$y = -0.1398x^2 + 8.8$$

El canto del arco varía según se avanza por su directriz, disminuyendo de 5.9 metros a 1 metro, y volviendo a aumentar otra vez hasta los 5.8 metros.

La necesidad de la existencia del arco metálico se debe al proceso constructivo, ya que durante un tiempo el arco metálico tendrá que ser capaz de soportar gran parte del peso del puente, además del peso del hormigón del arco cuando todavía no ha endurecido, y la maquinaria, los encofrados y el personal necesarios para la colocación del mismo.

#### II.2.1. Arco metálico

El arco metálico está formado por chapas de acero de 2.5 centímetros de espesor, que se arman de diferente forma según la sección del arco:

En el arranque del arco que se encuentra más cerca de la calle Oberlandstrasse, las secciones son perfiles en doble T, con unas pequeñas aletas de 0.3 metros de canto en los bordes de las alas. Conforme se avanza en la directriz del arco el canto va disminuyendo, de manera que las alas del perfil se van aproximando hasta que las



aletas del ala superior y del ala inferior se juntan. A su vez el ala inferior iba aumentando el ancho mientras que el ala superior lo mantiene.

Se pasa entonces de tener un perfil en doble T a un cajón bicelular trapezoidal, que continúa aumentando el ancho de las alas superior e inferior según se avanza en la directriz del arco. Además el canto deja de disminuir y empieza a aumentar hasta el final del arco.

Cuando el arco se bifurca, el cajón bicelular se separa en dos cajones celulares que avanzan, cada uno, en la directriz de cada una de las dos patas del arco.

Por último, se introduce un alma en el centro de los cajones y se parten las almas exteriores de los cajones, conformando un perfil en doble T con aletas de 0.3 metros de canto situadas en el borde de las alas, similar al perfil del arranque del lado Oberlandstrasse.

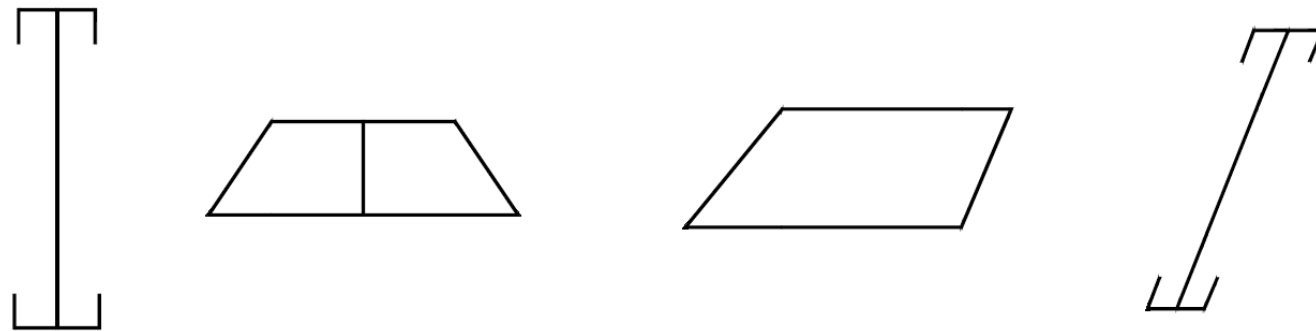


Figura 4. SECCIONES TIPO DEL ARCO METÁLICO.

### II.2.2. Arco mixto

El hormigón envuelve al arco metálico con un espesor constante de 0.2 metros. En las secciones en las que el arco metálico son perfiles en doble T el hormigón envuelve a toda la sección armada, mientras que en las secciones en cajón es solamente en el exterior.

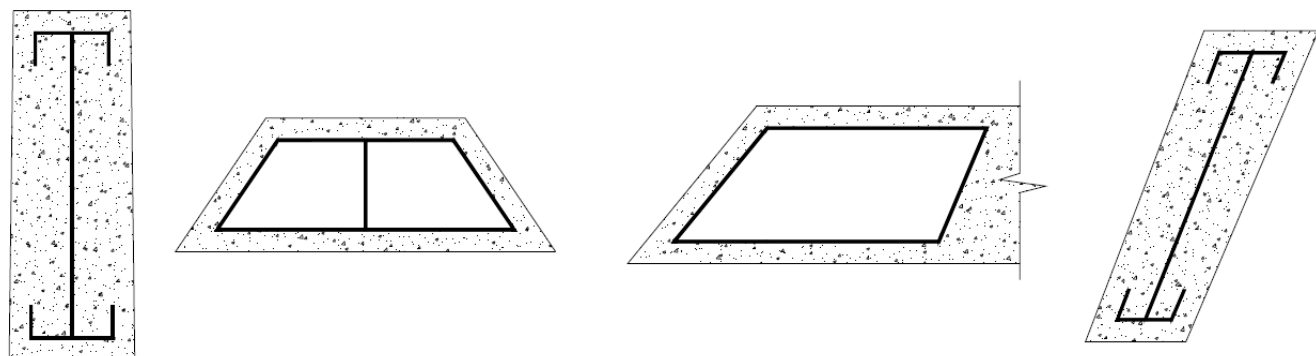


Figura 5. SECCIONES TIPO DEL ARCO MIXTO.

### II.3. Tablero

El tablero es mixto. Se trata de un emparrillado de vigas armadas de acero, coronado por una losa de hormigón armado colaborante. El emparrillado lo forman dos vigas cajón continuas en toda la longitud del puente, con un único vano de 60 metros. Cada 7.5 metros un tirante sujeta la viga longitudinal al arco. Entre vigas longitudinales se encuentran las vigas de piso de 16 metros de longitud, separadas cada 2.5 metros y formadas por perfiles armados en doble T. En el exterior de las vigas longitudinales hay unos cuchillos en voladizo de 3.75 metros de longitud, también separados cada 2.5 metros y formados por perfiles armados en doble T. Hay también unas vigas diagonales que llevan las tracciones que provoca el arranque del arco del lado Oberlandstrasse hasta las vigas longitudinales.

El canto de las secciones en cajón, que se mantiene constante de extremo a extremo del puente, es de 0.7 metros, y el ancho es de 1 metro. El espesor de las chapas es de 2.5 centímetros en todos los tramos excepto en los de los apoyos, donde las alas del cajón tienen un espesor de 3.5 centímetros.

El canto de las vigas de piso es de 0.9 metros en el centro de la viga y de 0.7 metros en la unión con las vigas longitudinales. El canto aumenta mediante la inclinación del ala superior de la viga, lo que quiere decir que el ala inferior se mantiene horizontal en todo momento. Gracias a la variación de canto de la viga se consigue el bombeo del 2.5% exigido en la calzada por el pliego. El ancho de las alas es de 0.25 metros. Los espesores de las alas y del alma son 2.2 centímetros y 1.5 centímetros, respectivamente, en todas las vigas de piso excepto en la que actúa de riostra de las vigas diagonales, en la que los espesores de las chapas son todos de 2.5 centímetros. Sobre las vigas de piso se situarán la calzada y los carriles bici.

El canto de los cuchillos es de 0.7 metros en la unión con la viga longitudinal y de 0.15 metros en el extremo libre. La pendiente del ala superior de los cuchillos es del 2% para cumplir lo exigido en el pliego, de manera que el ala inferior es la que está más inclinada para conseguir la reducción de canto de 0.7 a 0.15 metros. El ancho de las alas es de 0.25 metros. El espesor de las alas y del alma son 2.5 centímetros. Sobre los cuchillos se situarán las aceras, barandillas e impostas.

El canto de las vigas diagonales es de 0.9 metros en la unión con el arranque del arco y de 0.7 metros en la unión con las vigas longitudinales. La variación de canto se debe a la necesidad de mantener el bombeo de la calzada. Los espesores de las alas y del alma son 2.2 centímetros y 1.5 centímetros, respectivamente.

El canto de la losa es de 0.26 m en toda la longitud del puente. Se apoya sobre una chapa grecada que sirve a su vez de encofrado perdido para la losa.

### II.4. Péndolas

Las péndolas son los elementos formados por tendones de acero, que permiten la transmisión de esfuerzos del tablero al arco mediante fuerzas de tracción. Hay 12 tirantes, 6 a cada lado del arco, y cada uno de ellos está compuesto por 4 tendones de 15 milímetros de diámetro.

La necesidad de mantener el gálibo de los vehículos por encima de 5.5 metros hace que los tirantes deban estar lo más alto posible en el arco, separándose tan solo por 2.5 metros y centrando las cargas en el arco, cerca de la



clave. Con el mismo propósito, se alejan los tirantes de la calzada, por ese motivo el tablero es tan ancho. En las vigas longitudinales los tirantes se separan cada 7.5 metros.

## II.5. Subestructuras

Para la definición de las subestructuras se ha optado por un diseño armónico de ambos estribos, de acuerdo con las formas adoptadas para la estructura principal. La principal dificultad se ha visto a la hora de la disposición de los anclajes para la coacción del momento en el arco.

A continuación se analizarán las diversas geometrías adoptadas para cada estribo:

### II.5.1. Estribo 1

Para la definición geométrica de la subestructura más cercana a la calle Oberlandstrasse, se ha optado por una solución de estribo cerrado con el paramento principal curvado, estando en armonía con la curvatura del arco. Para el ahorro de material, se ha optado por dejar vacíos dos huecos en el interior del estribo, dejando suficiente espesor para que el estribo resista las cargas en los puntos donde apoya directamente el tablero. A continuación podemos observar una representación de la aleta y el perfil del Estribo 1:

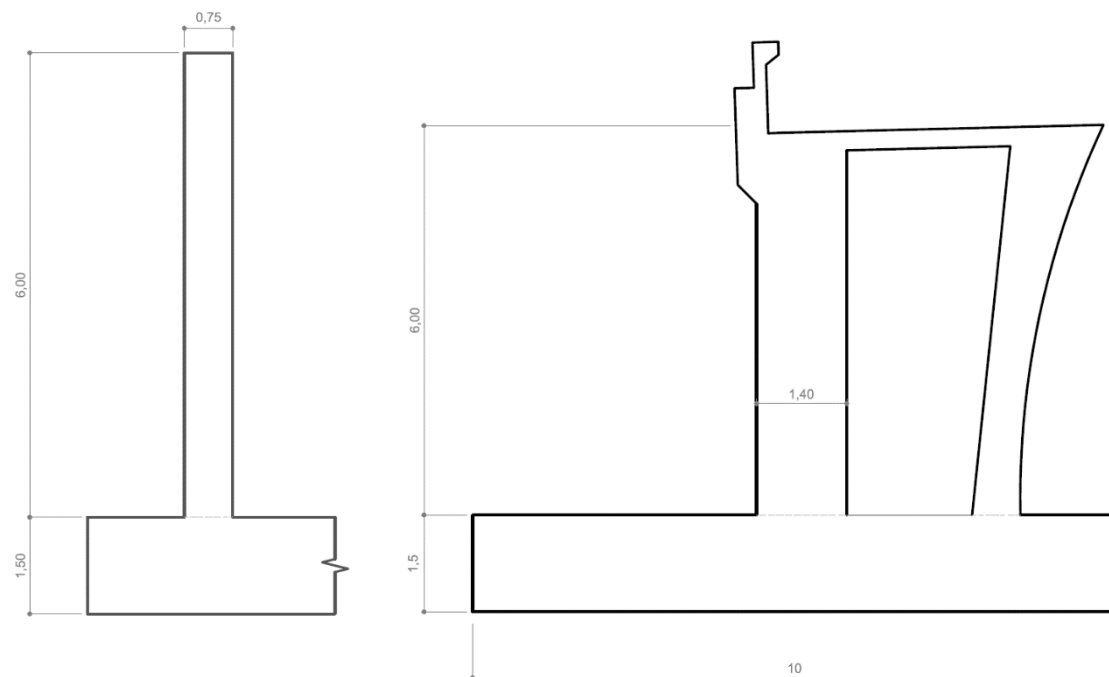


Figura 6. PERFIL ESTRIBO 1.

Para observar las medidas con mayor detalle acudir al plano nº5: "Definición geométrica. Estribo 1".

### II.5.2. Estribo 2

Para la definición geométrica de la subestructura más cercana al parque de Tempelhof, se ha optado por una solución de estribo cerrado con dos paramentos que buscan la continuidad de la bifurcación del arco.

Se ha dejado el espesor suficiente para que la subestructura sea capaz de resistir las cargas transmitidas por el tablero. Los anclajes se han dispuesto en la parte interior del estribo, mientras que los pots están situados a la parte más exterior del paramento de éste.

En la siguiente figura se puede observar el perfil del estribo 2 junto con su aleta lateral:

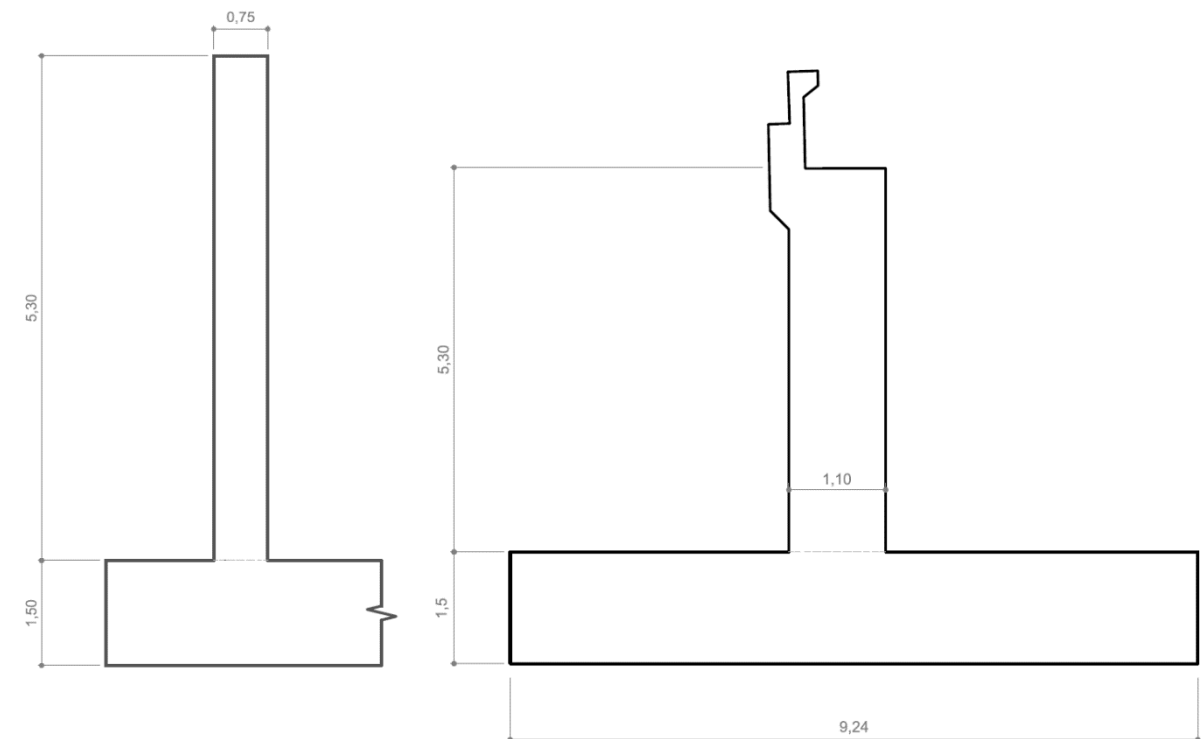


Figura 7. REPRESENTACION DEL ESTRIBO 2 EN 3D

Para un mayor detalle de las secciones del Estribo 2 consultar el plano plano nº5: "Definición geométrica. Estribo 2".



### III. Bases de cálculo

#### III.1. Normativa

Para la elaboración del proyecto se emplean las normas y recomendaciones enumeradas a continuación.

- **IAP-11.** “Instrucción de Acciones a considerar en el proyecto de Puentes de Carretera”.  
Se ha utilizado para la obtención de las diferentes cargas variables, así como para la combinación de las acciones y las limitaciones de flechas.
- **EC-1.** Eurocódigo 1: Bases de proyectos y acciones en estructuras.  
Se ha utilizado para la obtención de los valores locales de viento, temperatura y nieve.
- **EC-2.** Eurocódigo 2: Diseño de estructuras de hormigón.  
Se ha utilizado para las comprobaciones resistentes de los elementos de hormigón armado.
- **EAE.** “Instrucción de Acero Estructural”  
Se ha utilizado para las comprobaciones resistentes de los elementos de acero.
- **EHE-08.** “Instrucción de Hormigón Estructural”

Se ha utilizado como complemento al EC-2, bien en casos en que era más restrictiva o bien por considerar cosas que el EC-2 no considera.

#### III.2. Bases de proyecto

##### III.2.1. Criterios de seguridad

Para justificar la seguridad de las estructuras y su aptitud en servicio se utilizará el método de los estados límites, que se clasifican en:

- Estados límite de servicio
- Estados límite últimos.

Las situaciones de proyecto que se pueden considerar son las siguientes:

- **Persistente:** corresponden a situaciones de uso normal de las estructuras durante su vida útil.

- **Transitoria:** corresponden a condiciones temporales producidas durante construcción inspección o conservación de las estructuras y para las que se considera el periodo de aplicación.
- **Accidental:** Corresponden a condiciones excepcionales cuya probabilidad de ocurrencia durante la vida útil de la estructura es pequeña.
- **Sísmica:** corresponden a condiciones aplicables a la estructura cuando se produce un sismo.

Debido al alcance del proyecto las situaciones a considerar serán la persistente y, en cierto modo, la transitoria. No se considera acción accidental aunque se entiende que el entronque del arco más cercano a Oberlandstrasse está situado en el centro de la calzada y, por tanto, en el proyecto de construcción se debería de considerar la colisión de un vehículo con el arco. No obstante existe un espacio disponible que se propone para colocar unas barreras de protección o biondas.

Los estados límite a comprobar serán:

- Estado límites último:
  - ELU de rotura (STR), por agotamiento resistente o deformación plástica excesiva, donde la resistencia de los materiales estructurales es determinante.
- Estados límite de servicio:
  - ELS de fisuración que afecten a la durabilidad o estética del puente
  - ELS de deformación que afecte a la apariencia o funcionalidad de la obra, o que cause daño a elementos no estructurales.

##### III.2.2. Valores característicos de las acciones

###### a) Acciones permanentes

Se refiere a los pesos de los elementos, resistentes y no resistentes, que constituyen la obra, y se supone que actúan en todo momento, siendo constante en magnitud y posición. Están formadas por el peso propio y la carga muerta.

###### Peso propio

La carga se deduce de la geometría teórica de la estructura, considerando para el peso propio los siguientes valores:

- Acero estructural  $\gamma = 78.5 \text{ KN/m}^3$
- Hormigón  $\gamma = 25 \text{ KN/m}^3$

**Carga muerta**

Son las debidas a los elementos no resistentes:

▪ Pavimento bituminoso	$\gamma = 23 \text{ KN/m}^3$
▪ Pavimento en aceras	$\gamma = 30 \text{ KN/m}^3$
▪ Bordillo bici	$\gamma = 25 \text{ KN/m}^3$
▪ Bloque separador de acera y carril bici:	$\gamma = 25 \text{ KN/m}^3$
▪ Imposta	$\gamma = 25 \text{ KN/m}^3$
▪ Metal de la barandilla	$\gamma = 78.5 \text{ KN/m}^3$
▪ Cristal de la barandilla	$\gamma = 25 \text{ KN/m}^3$
▪ Peso del hormigón fresco del arco	$\gamma = 25 \text{ KN/m}^3$

**b) Acciones variables****Tráfico**División de la plataforma del tablero en carriles virtuales

En primer lugar hay que dividir la plataforma del tablero en carriles virtuales.

La anchura de la plataforma del puente se obtiene de sumar el ancho de los dos carriles de circulación y la separación entre estos.

$$w = 2 \cdot 3.5 + 1.5 = 8.5 \text{ m}$$

Atendiendo a la tabla 4.1-a de la IAP-11 se puede observar que para el puente:

$$w = 8.5 \text{ m} > 6 \text{ m}$$

Entrando en la tabla se obtienen el resto de parámetros necesarios para la obtención de las cargas debidas al tráfico:

$$\text{Número de carriles virtuales: } n_l = \text{ent} \left( \frac{w}{3} \right) = \text{ent} \left( \frac{8.5}{3} \right) = 2.83 \rightarrow 2 \text{ carriles virtuales}$$

$$\text{Anchura del carril virtual: } w_l = 3 \text{ m}$$

$$\text{Anchura del área remanente: } a = w - 3 \cdot n_l = 8.5 - 3 \cdot 2 = 2.5 \text{ m}$$

Cargas verticales debidas al tráfico de vehículos

Se considera la acción simultánea de las cargas siguientes:

- Uno o más vehículos pesados, según el número de carriles virtuales. Cada vehículo pesado estará constituido por dos ejes, siendo  $Q_{ik}$  la carga de cada eje. Se tendrán en cuenta los criterios:
  - En cada carril virtual se considera la actuación de un único vehículo pesado de peso  $2Q_{ik}$ .
  - La separación transversal entre ruedas del mismo eje será de 2 metros. La distancia longitudinal entre ejes será de 1.2 metros.
  - Las dos ruedas de cada eje tendrán la misma carga, que será por tanto igual a  $0.5Q_{ik}$ .
  - A efectos de las comprobaciones generales se supondrá que cada vehículo pesado actúa centrado en el carril.
  - Para las comprobaciones locales, cada vehículo se situará transversalmente dentro de cada carril virtual, en la posición más desfavorable. Cuando se consideren los dos vehículos pesados en carriles virtuales adyacentes, podrán aproximarse transversalmente, manteniendo una distancia entre ruedas mayor o igual a 0.5 m.
  - Para las comprobaciones locales, la carga puntual de cada rueda de un vehículo pesado se supondrá uniformemente repartida en una superficie de contacto cuadrada de 0.4 m x 0.4 m.
- Una sobrecarga uniforme de valor  $q_{ik}$ , según las consideraciones siguientes:
  - La sobrecarga uniforme se extenderá, longitudinal y transversalmente, a todas las zonas donde su efecto resulte desfavorable para el elemento en estudio, incluso en aquellas que ya tengan el vehículo pesado.

Por tanto para el puente estudiado se tendrá:

- Vehículo pesado carril virtual 1

El peso del vehículo pesado para el carril virtual 1 es de  $2Q_{ik} = 2 \cdot 300 = 600 \text{ KN}$ .

- Vehículo pesado carril virtual 2

El peso del vehículo pesado para el carril virtual 2 es de  $2Q_{ik} = 2 \cdot 200 = 400 \text{ KN}$ .

- Sobrecarga uniforme carril virtual 1  $q = 9 \text{ KN/m}^2$
- Sobrecarga uniforme carril virtual 2  $q = 2.5 \text{ KN/m}^2$
- Sobrecarga uniforme área remanente  $q = 2.5 \text{ KN/m}^2$
- Sobrecarga uniforme carril bici  $q = 5 \text{ KN/m}^2$



Cargas verticales en zonas de uso peatonal

En las zonas de uso peatonal de los puentes (aceras, rampas y escaleras), se supondrá aplicada una sobrecarga uniforme de 5 KN/m<sup>2</sup> en las zonas más desfavorables, longitudinal y transversalmente, para el efecto en estudio.

Fuerzas horizontales

- Fuerzas de frenado y arranque:

El puente tiene un trazado rectilíneo en planta, de manera que únicamente se tendrán en cuenta las fuerzas horizontales debidas al frenado y arranque, ya que los vehículos no generan fuerzas centrífugas.

El frenado, arranque o cambio de velocidad de los vehículos, dará lugar a una fuerza horizontal uniformemente distribuida en la dirección longitudinal del puente

El valor característico de esta acción  $Q_{lk}$  será igual a una fracción del valor de la carga característica vertical que se considere actuando sobre el carril virtual número 1, de acuerdo con la expresión:

$$Q_{lk} = 0.6 \cdot 2 \cdot Q_{1k} + 0.1 \cdot q_{1k} \cdot w_1 \cdot L$$

Además este valor está limitado superior e inferiormente:

$$180 \text{ KN} \leq Q_{lk} \leq 900 \text{ KN}$$

De manera que para el puente de estudio:

$$\text{- Carga} \quad Q_{lk} = 0.6 \cdot 2 \cdot 300 + 0.1 \cdot 9 \cdot 3 \cdot 60 = 522 \text{ KN}$$

- Empujes sobre barandillas

Se aplicará una fuerza horizontal perpendicular al elemento superior de la barandilla de 1.5 KN/m, y que será considerada actuando simultáneamente con la sobrecarga uniforme.

**Viento**

La acción del viento se asimilará a una carga estática equivalente:

Velocidad básica del viento

En el *Eurocódigo 1, Acciones en estructuras. Acciones del viento*, se establece en el apartado 4 del capítulo 8: *Acción del viento sobre puentes*, que el valor recomendado para la velocidad básica es de 23 m/s, pero en el artículo 4.1 (1) del *Anejo nacional de Alemania* se dice que para zona WZ2 se tomará la velocidad básica del viento como:

$$v_b = 25 \text{ m/s}$$

Velocidad media del viento

La velocidad media del viento a una altura  $z$  sobre el terreno dependerá de la rugosidad del terreno, de la topografía y de la velocidad básica del viento:

$$v_m(z) = c_r(z) \cdot c_0 \cdot v_b(T)$$

Siendo:

$$v_b(50) = 25 \text{ m/s}$$

$$c_0 \equiv \text{factor de topografía} = 1$$

$$c_r(z) = k_r \cdot \ln\left(\frac{z}{z_0}\right) \text{ para } z \geq z_{min}$$

$$c_r(z) = c_r(z_{min}) \text{ para } z < z_{min}$$

El puente se encuentra en un entorno del Tipo III: zona suburbana, forestal o industrial con construcciones y obstáculos aislados con una separación máxima de 20 veces la altura de los obstáculos. Así, de la tabla 4.2-b de la IAP-11 se obtiene:

$$k_r = 0.216$$

$$z_0(m) = 0.3$$

$$z_{min}(m) = 5$$

El puente tiene una  $z$  media de la base del tablero de 9.12 metros:

$$c_r(9.12) = 0.216 \cdot \ln\left(\frac{9.12}{0.3}\right) = 0.129823$$

$$v_m(9.12) = 0.129823 \cdot 1 \cdot 25 = 3.25 \text{ m/s}$$

Empuje del viento

Se ha calculado por separado para cada elemento del puente, teniendo en cuenta que el área expuesta al viento puede ser modificada por la sobrecarga de uso. El empuje del viento se calcula mediante la expresión:

$$F_w = \left[ \frac{1}{2} \cdot \rho \cdot v_b^2(T) \right] \cdot c_e(z) \cdot c_f \cdot A_{ref}$$

Donde:

$$F_w \equiv \text{empuje horizontal del viento (N)}$$

$$\frac{1}{2} \cdot \rho \cdot v_b^2(T) \equiv \text{presión de la velocidad básica del viento } q_b(\text{N/m}^2)$$

$$\rho \equiv \text{densidad del aire, que se tomará igual a } 1.25 \text{ kg/m}^3$$



$v_b(T) \equiv$  velocidad básica del viento (m/s) para un periodo de retorno de 50 años

$c_f \equiv$  coeficiente de fuerza del elemento considerado estará entre 1.3 y 2.4

$A_{ref} \equiv$  área de referencia, que se obtendrá como la proyección del área sólida expuesta ( $m^2$ )

$c_e(z) \equiv$  coeficiente de exposición en función de la altura calculado según la fórmula:

$$c_e(z) = k_r^2 \cdot \left[ c_0^2 \cdot \ln^2 \left( \frac{z}{z_0} \right) + 7 \cdot k_l \cdot c_0 \cdot \ln \left( \frac{z}{z_0} \right) \right] \quad \text{para } z \geq z_{min}$$

$$c_e(z) = c_e(z_{min}) \quad \text{para } z < z_{min}$$

$k_l \equiv$  factor de turbulencia = 1

▪ Empuje horizontal sobre el tablero:

El puente tiene un tablero de alma llena a una z media de 9.12 metros. La parte expuesta al viento horizontal la forman la altura de la viga en cajón, la losa, el pavimento y 2 metros añadidos por el paso de un vehículo.

- $h_{eq} = 0.7 + 0.25 + 0.1 + 2 = 3.05 \text{ m} \rightarrow A_{ref} = L \cdot h_{eq} = 60 \cdot 3.05 = 183 \text{ m}^2$
- $c_{f,x} = 2.5 - 0.3 \cdot (B/h_{eq}) = 2.5 - 0.3 \cdot \left( \frac{25.5}{3.05} \right) = -0.008197 < 1.3 \rightarrow c_{f,x} = 1.3$
- $c_e(9.12) = 1 \cdot \left[ 1 \cdot \ln^2 \left( \frac{9.12}{0.3} \right) + 7 \cdot 1 \cdot 1 \cdot \ln \left( \frac{9.12}{0.3} \right) \right] = 1.6591$
- $F_{w,x} = \left[ \frac{1}{2} \cdot 1.25 \cdot 25^2 \right] \cdot 1.6591 \cdot 1.3 \cdot 183 \cdot 10^{-3} = 154.18 \text{ KN}$

▪ Empuje vertical sobre el tablero

- $c_{f,z} = \pm 0.9$
- $A_{ref,z} = B \cdot L = 25.5 \cdot 60 = 1530 \text{ m}^2$
- $F_{w,z} = \left[ \frac{1}{2} \cdot 1.25 \cdot 25 \right] \cdot 1.6591 \cdot (\pm 0.9) \cdot 1530 \cdot 10^{-3} = \pm 892.4 \text{ KN}$

▪ Empuje provocado por el viento longitudinal

Se trata de un empuje horizontal paralelo al eje del puente. En tableros con elementos sólidos como el del puente estudiado, será una fracción del 25% del empuje transversal producido por el viento transversal, multiplicado por un coeficiente reductor.

$$coef_{red} = 1 - \left[ \frac{7}{c_0 \cdot \ln \left( \frac{z}{z_0} \right) + 7} \right] \cdot \phi[L/L(z)]$$

Donde:

$$\phi[L/L(z)] = 0.23 + 0.182 \cdot \ln \left[ \frac{L}{L(z)} \right] \quad \text{con } 0 \leq \phi[L/L(z)] \leq 1$$

$L \equiv$  longitud total del puente en metros = 60 m

$$z = 9.12 + 0.6 \cdot (h_{eq} - h_{tablero}) = 9.12 + 0.6 \cdot (3.05 - 1.05) = 10.32 \text{ m}$$

Como  $z_{min} \leq 10.32 \leq 200$

$$L(z) = 300 \cdot \left( \frac{z}{200} \right)^\alpha$$

Para entorno Tipo III  $\alpha=0.61$  (tabla 4.2-d de la IAP-11)

$$L(10.32) = 300 \cdot \left( \frac{10.32}{200} \right)^{0.61} = 49.2 \text{ m}$$

$$\phi[L/L(10.32)] = 0.23 + 0.182 \cdot \ln \left[ \frac{60}{49.2} \right] = 0.26612$$

$$coef_{red} = 1 - \left[ \frac{7}{1 \cdot \ln \left( \frac{10.32}{0.3} \right) + 7} \right] \cdot 0.26612 = 0.82741$$

$$F_{w,y} = F_{w,x} \cdot 0.25 \cdot coef_{red} = 154.18 \cdot 0.25 \cdot 0.82741 = 31.89 \text{ KN}$$

▪ Empuje horizontal sobre el arco

El empuje horizontal del viento depende de la altura y de la superficie sobre la que se aplica, de manera que los valores característicos de los empujes sobre el arco son diferentes a lo largo de su directriz. Por ese motivo se desarrollará la obtención de dichos empujes en el apartado IV.3.3 Acciones en el modelo de este anejo.

▪ Empuje vertical sobre el arco

De igual modo al empuje horizontal, el empuje varía según la altura del arco y de la superficie expuesta al viento, de manera que se desarrollará también en el apartado IV.3.3 de este anejo.



#### ▪ Empuje longitudinal sobre el arco

El empuje es un porcentaje del empuje horizontal, multiplicado además por un coeficiente reductor. Se desarrollará al completo en el apartado IV.3.3 de este anejo.

#### Nieve

Para la sobrecarga de nieve se considerarán dos casos diferentes:

Para la obtención del valor característico de la carga de nieve se ha utilizado el *Eurocódigo 1. Acciones en estructuras. Cargas de nieve*.

En el *Anexo C: Mapas europeos de cargas de nieve* se representa a Alemania como *Región Climática Centro Este* y dentro de esta, Berlín se encuentra en la *Zona 4.5*.

En la tabla C.1 viene dada la expresión para el valor característico de la carga de nieve en la región Centro Este según una relación *altitud-carga de nieve*:

$$s_k = (0.264 \cdot Z - 0.002) \cdot \left[ 1 + \left( \frac{A}{256} \right)^2 \right]$$

Donde:

$s_k$  es el valor característico de la carga de nieve a nivel del terreno (KN/m<sup>2</sup>)

Z es la zona en la que se encuentra Berlín dentro de la región climática

A es la altitud del emplazamiento sobre el nivel del mar (m)

Berlín se encuentra entre los 34 y los 115 metros de altura, de manera que para los 115 metros de altura el valor característico será:

$$s_k = (0.264 \cdot 4.5 - 0.002) \cdot \left[ 1 + \left( \frac{115}{256} \right)^2 \right] = 1.425 \text{ KN/m}^2$$

Para redondear tomaremos  $s_k=1.5 \text{ KN/m}^2$ .

#### Temperatura

##### Acción térmica en tableros

Para evaluar el efecto de la acción térmica se considera el tablero *Tipo 2: Tablero mixto compuesto por acero estructural y hormigón armado, conectados de forma que ambos materiales trabajen de forma solidaria*.

#### ▪ Temperatura uniforme

##### - Temperatura máxima y mínima del aire

Para calcular los efectos de la componente uniforme de temperatura se partirá del valor de la temperatura del aire a la sombra en el lugar del emplazamiento del puente. En el Eurocódigo 1 de 1998, acciones en estructuras, acciones térmicas aparece que la temperatura mínima a la sombra en Alemania es de -24 °C, mientras que la máxima es de 37 °C.

Para un periodo de retorno de 100 años se tomará:

$$T_{max,p} = T_{max} \cdot \{k_1 - k_2 \cdot \ln[-\ln(1-p)]\}$$

$$T_{min,p} = T_{min} \cdot \{k_3 - k_4 \cdot \ln[-\ln(1-p)]\}$$

Siendo  $p$  el inverso del periodo de retorno y considerando para los coeficientes los valores:

$$k_1 = 0.781; k_2 = 0.056; k_3 = 0.393 \text{ y } k_4 = -0.156$$

$$T_{max,p} = 37 \cdot \{0.781 - 0.056 \cdot \ln[-\ln(1-0.01)]\} = 38.4 \text{ °C}$$

$$T_{min,p} = -24 \cdot \{0.393 - (-0.156) \cdot \ln[-\ln(1-0.01)]\} = -26.65 \text{ °C}$$

##### - Componente uniforme e temperatura

La componente uniforme de temperatura del tablero tendrá un valor mínimo y un valor máximo que se determinará a partir de la temperatura del aire:

$$T_{e,min} = T_{min} + \Delta T_{e,min}$$

$$T_{e,max} = T_{max} + \Delta T_{e,max}$$

Los valores de  $\Delta T_{e,min}$  y  $\Delta T_{e,max}$  se obtienen directamente de la tabla 4.3-b de la IAP-11. Para tablero *Tipo 2: Tablero mixto* son +4 °C y +4 °C respectivamente:

$$T_{e,min} = -26.65 + 4 = -22.65 \text{ °C}$$

$$T_{e,max} = 38.4 + 4 = 42.4 \text{ °C}$$

##### - Rango de la componente uniforme de temperatura

La variación de la componente uniforme de temperatura ocasionará, en una estructura sin coacción al movimiento, un cambio en la longitud del elemento. El rango de variación de la componente uniforme de temperatura en el tablero será:



$$\Delta T_N = T_{e,max} - T_{e,min} = 38.4 - (-22.65) = 65.05 \text{ }^{\circ}\text{C}$$

A partir de los valores característicos máximo y mínimo de la componente uniforme de temperatura y a partir de la temperatura inicial  $T_0$  (temperatura media del tablero en el momento en que se coacciona su movimiento), se obtendrán los rangos de variación térmica que permitan determinar la contracción y la dilatación máximas del tablero. El valor característico será:

$$\Delta T_{N,con} = T_0 - T_{e,min} \text{ en contracción}$$

$$\Delta T_{N,exp} = T_{e,max} - T_0 \text{ en dilatación}$$

En el *anexo A* del *Eurocódigo* se indica que se tomará la temperatura inicial  $T_0 = 10 \text{ }^{\circ}\text{C}$ . Así se obtiene:

$$\Delta T_{N,con} = 10 - (-22.65) = 32.65 \text{ }^{\circ}\text{C}$$

$$\Delta T_{N,exp} = 42.4 - 10 = 32.4 \text{ }^{\circ}\text{C}$$

#### ■ Componente de la diferencia de temperatura

##### - Diferencia vertical

Para puentes mixtos, el efecto de la diferencia vertical de temperatura se considerará mediante una diferencia en la temperatura de las secciones parciales de acero y de hormigón.

En las condiciones de **calentamiento**, se considerará que la sección parcial de acero tiene un incremento  $\Delta T_{M,heat} = +18 \text{ }^{\circ}\text{C}$  respecto a la sección parcial de hormigón.

Gradiente térmico: la superficie inferior del tablero (acero) está a  $18 \text{ }^{\circ}\text{C}$  más de temperatura que la superficie superior (hormigón).

$$\text{El canto del tablero resistente es: } h = h_{viga} + h_{losa} = 0.7 + 0.25 = 0.95 \text{ m}$$

$$\text{Por tanto el gradiente es de } \nabla T = \Delta T / h = 18 / 0.95 = 18.95 \text{ }^{\circ}\text{C/m}$$

En las condiciones de **enfriamiento**, se considerará que la sección parcial de acero tiene un incremento  $\Delta T_{M,cool} = -10 \text{ }^{\circ}\text{C}$  respecto a la sección parcial de hormigón.

Gradiente térmico: la superficie inferior del tablero (acero) está a  $10 \text{ }^{\circ}\text{C}$  menos de temperatura que la superficie superior (hormigón).

$$\text{El canto del tablero resistente es: } h = h_{viga} + h_{losa} = 0.7 + 0.25 = 0.95 \text{ m}$$

$$\text{Por tanto el gradiente es de } \nabla T = \Delta T / h = 10 / 0.95 = 10.53 \text{ }^{\circ}\text{C/m}$$

##### - Diferencia horizontal

La diferencia de soleamiento entre un lado y otro de la sección transversal del tablero puede dar lugar a una diferencia horizontal de temperatura.

Mediante la tabla 4.3-f de la IAP-11, para tablero *Tipo 2* (mixto) se obtiene que, siendo:

$$h_a \equiv \text{proyección del paramento lateral del tablero sobre el plano vertical}$$

$$h_a = h_{máx,viga\ trans} + h_{losa} + h_{pavimento} = 0.9 + 0.26 + 0.1 = 1.26 \text{ m}$$

$$l_v \equiv \text{longitud del voladizo} = 3.75 \text{ m}$$

$$\text{Como: } l_v = 3.75 > 2 \cdot h_a = 2.52 \text{ m} \rightarrow \text{La diferencia horizontal se toma como nula}$$

#### ■ Simultaneidad de la componente uniforme y de la diferencia de temperatura

Con el fin de evitar realizar las 32 posibles concomitancias que se dan, se toman los coeficientes de simultaneidad igual a 1 por ser más desfavorable.

#### Diferencia de temperatura uniforme entre los elementos estructurales

Los efectos de la diferencia de temperatura entre distintos elementos estructurales se considerarán simultáneamente con los producidos por la variación de la componente uniforme de temperatura de todos los elementos.

#### ■ Diferencias con péndolas

Se considerará una diferencia entre la temperatura uniforme de los tirantes o péndolas y la temperatura uniforme del resto de los elementos del puente (arco o tablero) con el valor:

$$\text{- Diferencia positiva: } T_{péndolas} - T_{resto\ puente} = +20 \text{ }^{\circ}\text{C}$$

$$\text{En contracción } T_{péndolas} - (-32.65) = +20 \text{ }^{\circ}\text{C} \rightarrow T_{péndolas} = -12.65 \text{ }^{\circ}\text{C}$$

$$\text{En dilatación } T_{péndolas} - 32.41 = +20 \text{ }^{\circ}\text{C} \rightarrow T_{péndolas} = 52.41 \text{ }^{\circ}\text{C}$$

$$\text{- Diferencia negativa: } T_{péndolas} - T_{resto\ puente} = -10 \text{ }^{\circ}\text{C}$$

$$\text{En contracción } T_{péndolas} - (-32.65) = -10 \text{ }^{\circ}\text{C} \rightarrow T_{péndolas} = -42.65 \text{ }^{\circ}\text{C}$$

$$\text{En dilatación } T_{péndolas} - 32.41 = -10 \text{ }^{\circ}\text{C} \rightarrow T_{péndolas} = 22.41 \text{ }^{\circ}\text{C}$$





#### ■ Diferencias con el arco

En cualquier caso, se supondrá una diferencia de temperatura entre arco y tablero superior a  $\pm 15$  °C, es decir:

$$|T_{\text{arco}} - T_{\text{tablero}}| \geq 15 \text{ °C}$$

Únicamente se tendrá en cuenta el valor de arco más dilatado que el tablero, en el caso que estén dilatando y de arco más contraído que el tablero, cuando estén contrayendo:

$$T_{\text{arco}} = 47.41 \text{ °C (en dilatación)}$$

$$T_{\text{arco}} = -47.65 \text{ °C (en contracción)}$$

#### III.2.3. Valores representativos de las acciones

Se siguen, como en el apartado anterior los criterios de la IAP-11 relativos a las acciones a considerar en el proyecto de puentes de carretera.

Las acciones se definen, en su magnitud, por sus valores representativos.

##### a) Acciones permanentes (G)

Para éstas se considerará un único valor representativo, coincidente con el valor característico  $G_k$  excepto para el pavimento para el que se deberán utilizar dos valores representativos:

- $G_{k,inf}$  determinado con los espesores teóricos definidos en el proyecto
- $G_{k,sup}$  obtenido incrementando un 50% los espesores teóricos definidos en proyecto.

Para el peso propio de las tuberías y otros servicios soportados por el puentes, se tomará también dos valores extremos,  $G_{k,inf}$  y  $G_{k,sup}$  considerándose una desviación respecto a su valor medio del  $\pm 20\%$ .

Se ha considerado el valor superior para el pavimento, losa de hormigón y conducciones. No se considerarán las acciones permanentes de valor no constante como acciones reológicas, pretensado, acciones del terreno, etc.

##### b) Acciones variables (Q)

Para cada una de las acciones variables se pueden considerar los siguientes valores:

- Valor característico  $Q_k$ , valor de la acción cuando actúa aisladamente
- Valor de combinación  $\Psi_0 Q_k$ , valor de la acción cuando actúa simultáneamente a otra acción variable

- Valor frecuente  $\Psi_1 Q_k$ , valor de la acción que será sobrepasado durante un período de corta duración
- Valor casi-permanente  $\Psi_2 Q_k$ , valor de la acción que será sobrepasado durante una gran parte de la vida útil del puente.

El valor de los factores de simultaneidad se obtiene directamente de la tabla 6.1-a de la IAP-11. Para el caso del puente en estudio se han considerado los siguientes factores:

ACCIÓN				$\Psi_0$	$\Psi_1$	$\Psi_2$
SOBRECARGA DE USO	$gr_1$	verticales	pesados	0.75	0.75	0
			uniforme	0.4	0.4	0
			aceras	0.4	0.4	0
	$gr_2$	horizontales		0	0	0
VIENTO	$gr_3$	peatones		0	0	0
	$F_{wk}$	persistente		0.6	0.2	0
		construcción		0.8	0	0
TERMICA	$T_k$			0.6	0.6	0.5
NIEVE	$Q_{Sn,k}$	construcción		0.8	0	0
CONSTRUCCIÓN	$Q_c$			1	0	1

Se puede ver que para la sobrecarga de uso se hace referencia a tres grupos de carga ( $gr_1$ ;  $gr_2$  y  $gr_3$ ). Dichos grupos de carga surgen de la tabla 4.1-c de la IAP-11, e indican la concomitancia de las distintas componentes de la sobrecarga de uso. Se considera que estos grupos son excluyentes entre sí.

En la IAP-11 aparece también un  $gr_4$  que hace referencia al en el que el puente entero esté ocupado por peatones (aglomeraciones), pero se ha evitado esa comprobación debido a que es menos desfavorable.

Para el vehículo pesado se tendrá en cuenta su posición en el tablero en función de para qué elemento sea más perjudicial. Se consideran entonces 4 posiciones diferentes para el vehículo pesado: centro de luz y centro de tablero, centro de luz cerca de la viga longitudinal, apoyo y centro de tablero, y apoyo y cerca de la viga longitudinal.



### III.2.4. Valores de cálculo

Con carácter general se han seguido los criterios especificados en la instrucción IAP-11, relativos a las acciones a considerar en el Proyecto de Puentes de Carretera.

Los valores de cálculo de las diferentes acciones son los obtenidos aplicando el correspondiente coeficiente parcial de seguridad y a los valores representativos de las acciones, definidos en el apartado anterior.

- Estados límite últimos (E.L.U.).
  - Para las comprobaciones resistentes (STR) se adoptarán los valores de los coeficientes parciales indicados en la tabla 6.2-b de la IAP-11:

	ACCION	EFECTO	
		FAVOVABLE	DESFAVORABLE
Permanentes	Peso propio	1	1.35
	Carga muerta	1	1.35
Variable	Sobrecarga de uso	0	1.35
	Acciones climáticas	0	1.5
	Sobrecargas de construcción	0	1.35

- No se considera la situación accidental aunque se entiende que en el arranque del arco cercano a la calle Oberlandstrasse deberá ser estudiado el caso del impacto con un vehículo, en el Proyecto de Construcción. Tampoco se ha considerado la situación sísmica.
- Estados límite de servicio (E.L.S.)
  - Para las comprobaciones en estado límite de servicio, se adoptarán los valores de los coeficientes parciales indicados en la tabla 6.2-c de la IAP-11.

	ACCION	EFECTO	
		FAVOVABLE	DESFAVORABLE
Permanentes	Peso propio	1	1
	Carga muerta	1	1
Variable	Sobrecarga de uso	0	1
	Acciones climáticas	0	1
	Sobrecargas de construcción	0	1

### III.2.5. Combinación de acciones

Con carácter general se han seguido los criterios especificados en la IAP, relativos a las Acciones a Considerar en el Proyecto de Puentes De Carretera.

La hipótesis de carga a considerar se llevará a cabo combinando los valores de cálculo de las acciones cuya actuación pueda ser simultánea, según los criterios generales que se indican a continuación.

#### a) Estados límite último (STR)

Las combinaciones de las distintas acciones consideradas en estas situaciones, se realizará de acuerdo con el siguiente criterio:

$$\sum_{j \geq 1} \gamma_{G,j} G_{k,j} + \gamma_{Q,1} Q_{k,1} + \sum_{i > 1} \gamma_{Q,i} \psi_{0,i} Q_{k,i}$$

Donde:

$G_{k,j}$  Valor característico de cada acción permanente

$Q_{k,1}$  Valor característico de la acción variable dominante

$\psi_{0,i} Q_{k,i}$  Valor de combinación de las acciones variables concomitantes con la acción variable dominante

$\gamma_G, \gamma_Q$  Coeficientes parciales

#### b) Estados límite de servicio

Para estos estados se consideran únicamente las situaciones persistentes y transitorias, excluyéndose las accidentales.

Las combinaciones de las distintas acciones consideradas en estas situaciones y se realizará de acuerdo con el siguiente criterio:

- Combinación característica (poco probable o rara):

$$\sum_{j \geq 1} \gamma_{G,j} G_{k,j} + \gamma_{Q,1} Q_{k,1} + \sum_{i > 1} \gamma_{Q,i} \psi_{0,i} Q_{k,i}$$

- Combinación frecuente:

$$\sum_{j \geq 1} \gamma_{G,j} G_{k,j} + \gamma_{Q,1} \psi_{1,1} Q_{k,1} + \sum_{i > 1} \gamma_{Q,i} \psi_{2,i} Q_{k,i}$$



- Combinación casi-permanente

$$\sum_{j \geq 1} \gamma_{G,j} G_{k,j} + \sum_{i \geq 1} \gamma_{Q,i} \psi_{2,i} Q_{k,i}$$

Al combinar las diferentes acciones variables, se tendrán en cuenta las prescripciones siguientes:

- La sobrecarga de uso estará representada, para su combinación con el resto de las acciones, mediante los grupos de cargas definidos en la tabla 4.1-c de la IAP-11, que son excluyentes entre sí.
- Cuando se considere el viento transversal sobre el tablero o el arco, se considerará la actuación simultánea de la componente vertical del viento y el momento de vuelco correspondiente.
- Cuando se considere el viento longitudinal sobre el tablero o el arco, no se considerará la actuación simultánea del viento transversal, ni el empuje vertical, ni el momento de vuelco correspondiente.
- Cuando se considere la acción del viento como predominante, no se tendrá en cuenta la actuación de la sobrecarga de uso.
- Cuando se considere la sobrecarga de uso como predominante, se considerará el viento concomitante correspondiente.
- Cuando se considere el grupo de cargas de tráfico  $gr_2$  (fuerzas horizontales con su valor característico), no se considerará la actuación del viento ni la nieve.
- No se considerará la acción simultánea del viento y de la acción térmica.
- En general, no se considerará la acción simultánea de la carga de nieve y la sobrecarga de uso.

### III.2.6. Criterios de durabilidad

- Generalidades.**

El puente debe ser construido y proyectado de forma que mantenga sus condiciones de seguridad, funcionalidad, durabilidad y aspecto, ajustándose a los costes de conservación y explotación previstos.

Se asegurará que no existan puntos de acumulación de agua con un drenaje adecuado. Y la concepción de los nudos y encuentro de los elementos estructurales se realizará de forma que permita evitar la formación de recintos que favorezcan el depósito de residuos o suciedad. Asimismo, se tendrá en cuenta en la concepción del puente la accesibilidad para limpieza y conservación de apoyos, juntas y sistemas de evacuación de aguas superficiales. En servicio, se permitirá la salida de aguas de filtración o de condensación.

- Elementos de hormigón.**

En el proyecto y ejecución se tienen en cuenta las indicaciones relativas a durabilidad contenidas en la “Instrucción de Hormigón Estructural”, EHE. Se conseguirá una óptima durabilidad si además de un adecuado proyecto y ejecución el mantenimiento es el requerido.

No sólo la durabilidad del hormigón frente a acciones físicas y ataque químico es necesaria, también el acero de las armaduras deberá tener la protección a corrosión exigida. Por este motivo se prestará especial atención a los recubrimientos de las armaduras principales y estribos. Los hormigones deberán ser homogéneos, compactos y suficientemente impermeables.

- Elementos de acero**

En el proyecto y ejecución se tienen en cuenta las indicaciones de durabilidad exigidas por la “Instrucción de Acero Estructural”, EAE. Las formas geométricas y los detalles serán los necesarios para obtener la durabilidad óptima. Éstas son sencillas y los métodos de ejecución serán tales que no se reduzca la eficacia de los sistemas de protección empleados (por transporte y manipulación de los elementos). Se prestará la suficiente atención a las uniones soldadas (cuidando que la superficie de la soldadura esté libre de imperfecciones, fisuras, cráteres y proyecciones) y a los refuerzos que en las secciones se empleen. Las superficies se prepararán y pintarán eficazmente. Todo esto sumado a un adecuado mantenimiento son los requisitos para una buena durabilidad.

- Inspección y mantenimiento**

El proyecto se ha redactado suponiendo que el puente estará adecuadamente inspeccionado y mantenido. Se adoptan las medidas necesarias para posibilitar la accesibilidad a los aparatos de apoyos y a los puntos de puente que vayan a requerir futuras inspecciones de manera que sean visibles y se encuentren al alcance del operario de mantenimiento mediante un método seguro y que este se pueda desplazar por todas las partes de manera segura y con el espacio adecuado para trabajar en ellas. En el dimensionamiento se han previsto los procedimientos necesarios para un eventual cambio de juntas y aparatos de apoyo.

### III.2.7. Características de los materiales

- a) Hormigón**

#### Nomenclaturas

- |                       |        |                           |
|-----------------------|--------|---------------------------|
| Hormigón de limpieza  | C20/25 | $f_{ck} = 20 \text{ MPa}$ |
| Hormigón de cimientos | C30/37 | $f_{ck} = 30 \text{ MPa}$ |
| Hormigón en losa      | C30/37 | $f_{ck} = 30 \text{ MPa}$ |
| Hormigón en arco      | C50/60 | $f_{ck} = 50 \text{ MPa}$ |



Módulo de elasticidad	$E_{C30/37} = 32837 \text{ N/mm}^2$
	$E_{C50/60} = 37278 \text{ N/mm}^2$
Coeficiente de dilatación térmica	$\alpha = 10 \cdot 10^{-6} \text{ }^{\circ}\text{C}^{-1}$
Densidad	$\rho = 2500 \text{ Kg/m}^3$
Coeficiente de Poisson	$\nu = 0.2$

**b) Acero de las armaduras**

Nomenclatura	B 500 S
Límite elástico	$f_{yk} = 500 \text{ N/mm}^2$
Módulo de elasticidad	$E_s = 200000 \text{ N/mm}^2$
Alargamiento de rotura	$\epsilon \geq 0.01 \%$
Densidad	$\rho = 78500 \text{ Kg/m}^3$
Coeficiente de Poisson	$\nu = 0.3$

**c) Acero estructural**

Nomenclatura	S 355 J2
Módulo de elasticidad	$E_s = 210000 \text{ N/mm}^2$
Módulo de rigidez transversal	$G_s = 81000 \text{ N/mm}^2$
Coeficiente de Poisson	$\nu = 0.3$
Densidad	$\rho = 7850 \text{ Kg/m}^3$
Coeficiente de dilatación térmica	$\alpha = 1.2 \cdot 10^{-6} \text{ }^{\circ}\text{C}^{-1}$
Límite elástico	$f_{yk} = 355 \text{ N/mm}^2$
Límite de rotura	$f_u = 510 \text{ N/mm}^2$

**d) Acero tendones**

Módulo de elasticidad	$E_s = 210000 \text{ N/mm}^2$
Módulo de rigidez transversal	$G_s = 81000 \text{ N/mm}^2$
Coeficiente de Poisson	$\nu = 0.3$
Densidad	$\rho = 7850 \text{ Kg/m}^3$
Coeficiente de dilatación térmica	$\alpha = 1.2 \cdot 10^{-6} \text{ }^{\circ}\text{C}^{-1}$
Límite elástico	$f_{yk} = 1000 \text{ N/mm}^2$

**e) Acero anclaje arco**

Módulo de elasticidad	$E_s = 210000 \text{ N/mm}^2$
Módulo de rigidez transversal	$G_s = 81000 \text{ N/mm}^2$
Coeficiente de Poisson	$\nu = 0.3$
Densidad	$\rho = 7850 \text{ Kg/m}^3$
Coeficiente de dilatación térmica	$\alpha = 1.2 \cdot 10^{-6} \text{ }^{\circ}\text{C}^{-1}$
Límite elástico	$f_{yk} = 1800 \text{ N/mm}^2$

**III.2.8. Niveles de control**

El control de calidad de los elementos abarca el control de materiales (hormigón de arco, losa y estribos, acero estructural de los perfiles y acero de las armaduras, así como chapa grecada y el control de la ejecución.

Se efectuará el control según las indicaciones de la Instrucción EHE para hormigón y EAE para aceros.

**a) Hormigón y acero para armar**

Niveles de control	Normal para los materiales Intenso para la ejecución	
Coeficientes parciales de seguridad	Hormigón	$\gamma_c = 1'50$
	Acero corrugado	$\gamma_s = 1'15$





#### b) Acero estructural

<i>Niveles de control</i>	Normal para los materiales Intenso para la ejecución	
<i>Coefficientes parciales de seguridad</i>	Acero estructural	$\gamma_s = 1.05$

#### c) Acero tendones

<i>Niveles de control</i>	Normal para los materiales Intenso para la ejecución	
<i>Coefficientes parciales de seguridad</i>	Acero estructural	$\gamma_s = 1.05$

## IV. Cálculo

### IV.1. Introducción

Se procederá en el presente apartado al cálculo de la estructura. Para ello se modelizará el puente en el software SAP2000 en 3D introduciendo las acciones definidas anteriormente. Se describirá primeramente el método de cálculo empleado y seguidamente se hará un breve comentario sobre el funcionamiento del programa SAP. A continuación se describirá el modelo introducido (posición de barras, nudos, restricciones y materiales). Se nombrarán los casos de carga a partir de las acciones definidas en las bases de cálculo y se ejecutará el programa. Para concluir se comprobará que los elementos que se han definido para la estructura son suficientemente resistentes y la deformación global es menor a la máxima permitida.

### IV.2. Método de cálculo

El cálculo de la estructura se ha realizado mediante un análisis estático lineal. Se ha introducido la estructura definida en el primer apartado de este anejo con los materiales adecuados, se ha analizado para cada una de las hipótesis de carga y se han obtenido los resultados con los que se ha comprobado si los elementos principales soportan los esfuerzos a los que se prevé van a estar sometidos.

### IV.3. Modelo de cálculo

#### IV.3.1. Descripción del software

El SAP2000 es un programa de elementos finitos, con interfaz gráfica 3D orientado a objetos, preparado para realizar, de forma totalmente integrada, la modelación, análisis y dimensionamiento de problemas en la ingeniería de las estructuras.

#### IV.3.2. Descripción del modelo

Se han planteado dos modelos de cálculo, uno que representa el proceso constructivo y otro que representa el puente construido. Es importante resaltar que el modelo al que se le ha dado importancia es al del puente finalizado, mientras que el modelo en fase de construcción se ha utilizado para obtener algunos datos de partida.

En ambos casos, el modelo de cálculo correspondiente al emparrillado formado por las vigas transversales, los cuchillos, las vigas longitudinales y las vigas diagonales, y también la losa, los tirantes y el arco. Estos modelos se han utilizado para obtener los esfuerzos provocados por todas las acciones concomitantes que puedan darse en un momento de la vida útil y durante la construcción de la estructura, atendiendo a los criterios de combinación de acciones apuntados en el punto anterior.

En el modelo se han introducido las siguientes características:

▪ Materiales de cada elemento

Los materiales definidos son los que se han explicado en apartados anteriores.

▪ Secciones y losa

Se han introducido las secciones de las vigas del tablero, del arco, de los tirantes y la losa del tablero.

- Las secciones del emparrillado y de los tirantes son las que se han explicado al principio del anejo.
- Las secciones del arco son diferentes para cada modelo y se explicarán en apartados posteriores.
- La losa se ha modelizado como un elemento superficial unido a las vigas del emparrillado mediante nudos de dimensión finita. De este modo, se han conseguido obtener directamente los esfuerzos en las vigas y en la losa por separado.

▪ Uniones entre elementos

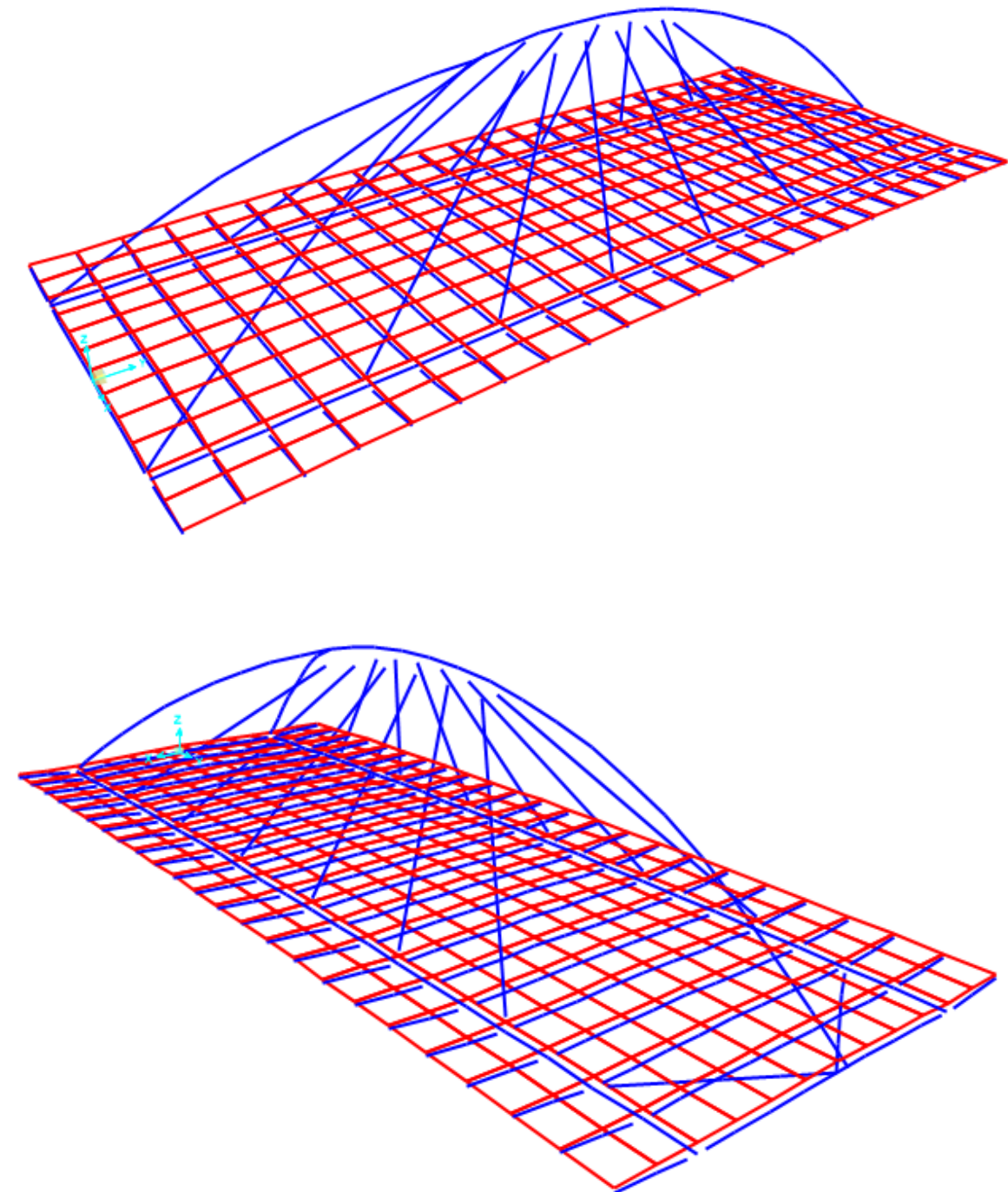
- Las uniones entre elementos metálicos se han considerado como empotramientos.
- Las uniones del arco con el tablero se han considerado como empotramientos.
- Los tirantes se han considerado articulados.

▪ Coacciones

El puente se apoya en cinco puntos, tres en el lado Oberlandstrasse y dos en el lado Tempelhof.

- En los extremos de las vigas del lado Oberlandstrasse se coacciona únicamente el movimiento vertical.
- En el arranque del arco del lado Oberlandsrasse se coaccionan los tres desplazamientos y el giro alrededor de un eje transversal al puente.
- En el arranque del arco del lado Tempelhof, situado a la derecha mirando hacia Tempelhof, se coacciona el movimiento vertical y el transversal al puente, además del giro alrededor de un eje transversal al puente.
- En el arranque del arco del lado Tempelhof, situado a la izquierda mirando hacia Tempelhof, se coacciona el movimiento vertical y el giro alrededor de un eje transversal al puente.

Se muestran a continuación dos imágenes del modelo estructural:



**Figura 8.** MODELO DE ANÁLISIS EN SAP2000



Dado que la estructura está formada fundamentalmente por elementos de canto variable, ha sido necesario considerar varias secciones intermedias para poder interpolar las vigas y demás elementos barra.

#### Modelo en fase de construcción

Como se ha comentado, se ha realizado un modelo simplificado del puente en fase de construcción. Debido al proceso constructivo, hay un momento en el que el arco solo cuenta con la parte metálica en su tramo central, de manera que el arco metálico (con los extremos del arco ya hormigonados) ha de soportar el peso del tablero metálico, el peso del hormigón de la losa sin endurecer y el peso del hormigón del arco sin endurecer.

El modelo permite, por tanto, la determinación de esfuerzos y deformaciones que se dan en dos situaciones concretas:

- Tablero metálico construido, patas del arco hormigonadas y resistiendo, tramo central del arco sin hormigonar y losa del tablero hormigonada pero sin estar endurecida (de manera que pesa pero no resiste).
- Tablero metálico construido, losa hormigonada y resistiendo y tramo central del arco hormigonado pero sin estar endurecido (de manera que pesa pero no resiste).

Para el segundo caso se ha aumentado el peso del hormigón fresco en un 10 % para simular el peso de los encofrados.

Con este modelo se han obtenido las flechas producidas por estas cargas en ambas situaciones y así se tiene la parte de contraflecha necesaria que hay que darle al puente que depende del proceso constructivo.

#### Modelo del puente construido

El modelo del puente finalizado cuenta con todos los elementos resistiendo. Sobre este modelo se analizan las cargas debidas a acciones permanentes y acciones variables definidas anteriormente.

Con el análisis de peso propio y cargas muertas se ha obtenido la flecha debida a cargas permanentes, que sumada a la obtenida en el modelo en fase de construcción nos proporciona la contraflecha total necesaria para la construcción del puente.

Con los esfuerzos más desfavorables obtenidos de este modelo se han comprobado y dimensionado los elementos estructurales.

En ambos modelos se ha incrementado el peso de los elementos de acero en un 10 % para simular los rigidizadores y demás elementos no modelizados.

#### **IV.3.3. Acciones sobre el modelo**

En este apartado se explica cómo se han aplicado las cargas a los diferentes elementos del modelo de análisis.

##### **Peso propio**

Las cargas se asignan automáticamente en función de las dimensiones del elemento y de su material:

- Acero estructural  $\gamma = 78.5 \text{ KN/m}^3$
- Hormigón  $\gamma = 25 \text{ KN/m}^3$

##### **Carga muerta**

Debido al modelo que se ha realizado es necesario traducir las cargas puntuales y cargas repartidas a cargas situadas sobre las vigas de piso:

- Pavimento bituminoso
  - Peso específico  $\gamma = 23 \text{ KN/m}^3$
  - Distancia tributaria  $l = 2.5 \text{ m}$
  - Espesor  $e = 0.1 \text{ m}$
  - Amplificación  $G_{k,sup} = 1 + 50 \% = 1.5$
  - **Carga distribuida**  $g_1 = \gamma \cdot l \cdot e \cdot G_{k,sup} = 8.625 \text{ KN/m}$
- Pavimento en aceras
  - Peso específico  $\gamma = 30 \text{ KN/m}^3$
  - Distancia tributaria  $l = 3.5 \text{ m}$
  - Espesor  $e = 0.012 \text{ m}$
  - Amplificación  $G_{k,sup} = 1 + 50 \% = 1.5$
  - **Carga distribuida**  $g_2 = \gamma \cdot l \cdot e \cdot G_{k,sup} = 1.89 \text{ KN/m}$
- Bordillo bici
  - Peso específico  $\gamma = 25 \text{ KN/m}^3$
  - Volumen unitario (un bordillo)  $V = 0.0061 \text{ m}^3$



- Carga puntual cada 2'5 m  $g_3 = \gamma \cdot V = 0.153 \text{ KN}$

■ Bloque hormigón separador de acera y carril bici:

- Peso específico  $\gamma = 25 \text{ KN/m}^3$
- Volumen unitario (un bloque)  $V = 2.972 \text{ m}^3$
- Longitud tributaria (un bloque)  $l = 2.5 \text{ m}$
- Carga distribuida  $g_4 = \gamma \cdot V/l = 29.72 \text{ KN}$

■ Imposta

- Peso específico  $\gamma = 25 \text{ KN/m}^3$
- Volumen unitario  $V = 0.452 \text{ m}^3$
- Carga puntual cada 2'5 m  $g_5 = \gamma \cdot V = 11.3 \text{ KN}$

■ Barandilla

- Peso específico  $\gamma = 78.5 \text{ KN/m}^3$
- Volumen unitario (un soporte)  $V = 0.0217$
- Carga puntual cada 2'5 m  $g_6 = \gamma \cdot V = 1.703 \text{ KN}$

■ Cristal de la barandilla

- Peso específico  $\gamma = 25 \text{ KN/m}^3$
- Volumen unitario (un bordillo)  $V = 0.0384 \text{ m}^3$
- Carga puntual cada 2'5 m  $g_7 = \gamma \cdot V = 0.96 \text{ KN}$

■ Peso del hormigón fresco del arco (para el modelo en fase de construcción):

Es necesario determinar el peso de hormigón fresco que deberá soportar el arco metálico.

En modelo de análisis el arco está formado por barras de 2.5 metros de longitud. Sacando el área media entre las secciones extremas de cada barra y multiplicándolas por los 2.5 metros obtenemos el volumen de hormigón a resistir por cada barra.

En la siguiente imagen se puede observar las diferentes secciones en las que se divide el arco, que suponen los extremos de las barras modelizadas para el análisis:

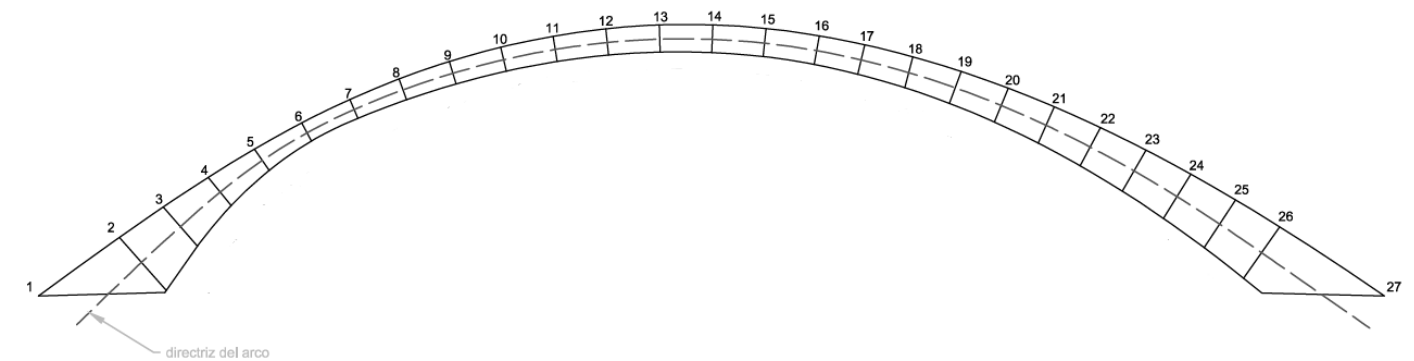


Figura 8. SECCIONES DEL ARCO

Se explicará en el "Anejo nº6 Proceso constructivo", redactado por Álvaro Soria Cabello, que la parte del arco metálico que deberá soportar el hormigón fresco serán las secciones del arco comprendidas entre la 6 y la 22, ya que en el resto de secciones el hormigón estará ya endurecido y colaborando en la resistencia de los esfuerzos.

CARGA DEL HORMIGÓN FRESCO DEL ARCO			
Tramo	Área media (m <sup>2</sup> )	Peso hormigón (KN/m <sup>3</sup> )	Carga (KN/m)
6_7	0.40475	25	10.11875
7_8	0.4331	25	10.8275
8_9	0.47965	25	11.99125
9_10	0.53705	25	13.42625
10_11	0.61255	25	15.31375
11_12	0.7056	25	17.64
12_13	0.8232	25	20.58
13_14	0.9712	25	24.28
14_15	1.14765	25	28.69125
15_16	1.83585	25	45.89625
16_17	3.06325	25	76.58125
17_18	1.832175	25	45.804375
18_19	2.201375	25	55.034375
19_20	2.481275	25	62.031875
20_21	1.838525	25	45.963125
21_22	0.8173	25	20.4325





## c) Acciones variables

## Tráfico

## ▪ Vehículo pesado carril 1

Se ha de tener en cuenta que:

- La separación entre vigas transversales es de 2.5 metros
- La separación entre ruedas del mismo eje es de 2 metros y la separación entre ejes es de 1.2 metros.
- El peso del vehículo pesado es de  $2Q_{pk}=2 \cdot 300=600$  KN. De manera que cada eje transmite 300 KN y cada rueda 150 KN.

Para una comprobación general del modelo será suficiente con decir que el factor de contribución (f) será igual a:

$$f = \frac{2 \cdot (2.5 - 0.6)}{2} = 1.52$$

Por lo tanto las dos cargas puntuales que se situarán en el modelo sobre la viga transversal *b* será:

- **Carga puntual 1**  $q_1 = R_{b1} = q \cdot f = 150 \cdot 1.52 = 228$  KN
- **Carga puntual 2**  $q_2 = R_{b2} = q \cdot f = 150 \cdot 1.52 = 228$  KN

Separadas entre sí 2 metros en la dirección de la viga de piso.

De manera que las otras dos vigas transversales aguantan:

$$R_{a1} = R_{c1} = \frac{300 - 228}{2} = 36$$
 KN

$$R_{a2} = R_{c2} = \frac{300 - 228}{2} = 36$$
 KN

Separadas entre sí 2 metros en la dirección de la viga de piso.

## ▪ Vehículo pesado carril virtual 2

- **Carga puntual 1**  $q_3 = R_b = q \cdot f = 100 \cdot 1.52 = 152$  KN
- **Carga puntual 2**  $q_4 = R_b = q \cdot f = 100 \cdot 1.52 = 152$  KN

Separadas entre sí 2 metros en la dirección de la viga de piso.

De manera que las otras dos vigas transversales aguantan:

$$R_{a3} = R_{c3} = \frac{200 - 152}{2} = 24$$
 KN

$$R_{a4} = R_{c4} = \frac{200 - 152}{2} = 24$$
 KN

Separadas entre sí 2 metros en la dirección de la viga de piso.

## ▪ Sobrecarga uniforme carril virtual 1

- Carga superficial  $q = 9$  KN/m<sup>2</sup>
- Longitud tributaria  $l = 2.5$  m
- **Carga distribuida**  $q_5 = q \cdot l = 22.5$  KN/m

## ▪ Sobrecarga uniforme carril virtual 2

- Carga superficial  $q = 2.5$  KN/m<sup>2</sup>
- Longitud tributaria  $l = 2.5$  m
- **Carga distribuida**  $q_6 = q \cdot l = 6.25$  KN/m

## ▪ Sobrecarga uniforme área remanente

- Carga superficial  $q = 2.5$  KN/m<sup>2</sup>
- Longitud tributaria  $l = 2.5$  m
- **Carga distribuida**  $q_7 = q \cdot l = 6.25$  KN/m

## ▪ Sobrecarga uniforme carril bici

- Carga superficial  $q = 5$  KN/m<sup>2</sup>
- Longitud tributaria  $l = 2.5$  m
- **Carga distribuida**  $q_8 = q \cdot l = 12.5$  KN/m

Cargas verticales en zonas de uso peatonal

- Sobrecarga uniforme peatones

- Carga superficial  $q = 5 \text{ KN/m}^2$
- Longitud tributaria  $l = 2.5 \text{ m}$
- **Carga distribuida**  $q_9 = q \cdot l = 12.5 \text{ KN/m}$

Fuerzas horizontales

- Fuerzas de frenado y arranque

- Carga  $Q_{lk} = 522 \text{ KN}$
- Número de vigas  $n = \frac{L}{s} + 1 = \frac{60}{2.5} + 1 = 25 \text{ vigas}$
- **Carga distribuida**  $q_{10} = \frac{Q_{lk}}{n \cdot w_1} = \frac{522}{25 \cdot 3} = 7.25 \text{ KN/m}$

- Empujes sobre barandillas

Las barandillas del puente se sitúan sobre los cuchillos y tienen 1.1 metros de altura, de manera que la fuerza horizontal de 1.5 KN/m introduce un flector en el extremo libre de los cuchillos.

- Carga horizontal por cuchillo  $F_H = q \cdot s = 1.5 \cdot 2.5 = 3.75 \text{ KN}$
- **Momento introducido a cada cuchillo**  $M = F_H \cdot h = 3.75 \cdot 1.1 = 4.125 \text{ KN} \cdot \text{m}$

**Viento**

- Empuje horizontal sobre el tablero:

En el modelo se aplica la fuerza obtenida como cargas puntuales sobre los extremos de los cuchillos, de manera que a cada viga se le aplica:

- **Carga puntual**  $Q_{w,x} = \frac{F_{w,x}}{n} = \frac{154.18}{25} = 6.42 \text{ KN}$

Además, se aplica sobre el centro de gravedad de la sección, lo que implica la aparición de un momento de vuelco sobre el tablero. Por lo que siendo  $h$  el canto de la viga de piso en ese punto igual a 0.7 metros y con  $h_{eq}$  igual a 3.05 metros

- **Momento de vuelco horizontal**  $M_{w,x} = Q_{w,x} \cdot \left( \frac{h_{eq}}{2} - \frac{h}{2} \right) = 6.42 \cdot \frac{3.05 - 0.35}{2} = 7.55 \text{ KN} \cdot \text{m}$

- Empuje vertical sobre el tablero

El empuje vertical está aplicado a una distancia del borde de barlovento igual a un cuarto de la anchura del tablero, sobre las vigas de piso:

- **Carga por viga transversal**  $Q_{w,z} = \frac{F_{w,z}}{n \text{ vigas}} = \frac{\pm 892.4}{25} = \pm 36.45 \text{ KN (presión y succión)}$

$$d = \frac{B}{4} = \frac{25.5}{4} = 6.375 \text{ m desde el borde del tablero}$$

El momento de vuelco sobre el tablero que aparece en la IAP-11 se produce de forma automática al aplicar el empuje en ese punto.

- Empuje provocado por el viento longitudinal

El empuje se aplica en el modelo como una carga repartida sobre las vigas de piso, en la dirección longitudinal del puente:

- *Carga repartida por metro de ancho del tablero*  $q = \frac{F_{w,y}}{B} = \frac{31.89}{25.5} = 1.251 \text{ KN/m}$
- **Carga repartida por viga transversal**  $q_{w,y} = \frac{q}{n} = \frac{1.251}{25} = 0.053 \text{ KN/m}$

- Empuje horizontal sobre el arco

Como se ha explicado en un apartado anterior, el empuje que recibe el arco del puente varía según la altura del arco así como de la superficie expuesta al viento, ya que el arco va cambiando de canto.

En el modelo de cálculo el arco está formado por barras de 2.5 metros en la directriz del arco, por lo tanto la carga repartida que reciba cada área se calculará en función del área expuesta al viento en cada barra. Además el ancho del arco también varía, por lo que el coeficiente de fuerza también será diferente en cada barra.

La obtención del coeficiente de fuerza se realiza mediante la tabla 4.2-b de la IAP-11, la parte en la que el coeficiente depende de la relación B/h.

Operando de igual modo que con el empuje horizontal sobre el tablero se obtienen los resultados que se resumen en la siguiente tabla:



EMPUJE HORIZONTAL SOBRE EL ARCO DEBIDO AL VIENTO						
Tramo	z	C <sub>e</sub>	C <sub>f</sub>	A <sub>ref</sub>	F <sub>w</sub> total por barra	Carga distribuida
	m			m <sup>2</sup>	KN	KN/m
1_2	9.2532	1.66842979	2	8.2	7.481864817	<b>2.992745927</b>
2_3	10.9121	1.77631699	2	6.7834	6.589553188	<b>2.635821275</b>
3_4	12.55	1.86980084	2	4.7478	4.854850241	<b>1.941940096</b>
4_5	14.1288	1.95043866	2	2.2566	2.406993681	<b>0.962797473</b>
5_6	15.5544	2.01681835	2.1	1.9319	3.196176514	<b>1.278470606</b>
6_7	16.7668	2.06924723	2.1	2.0281	3.442556504	<b>1.377022601</b>
7_8	17.7851	2.11080078	2.1	2.0281	3.511688143	<b>1.404675257</b>
8_9	18.6467	2.1443768	2.1	2.0281	3.567547749	<b>1.4270191</b>
9_10	19.3669	2.17142354	2.1	2.4683	4.396649194	<b>1.758659678</b>
10_11	19.9387	2.19228127	1.65	2.4683	3.487692572	<b>1.395077029</b>
11_12	20.3546	2.2071277	1.65	2.4683	3.511311702	<b>1.404524681</b>
12_13	20.6069	2.21600591	1.65	2.7359	3.907645086	<b>1.563058035</b>
13_14	20.686	2.21876988	1.65	2.7359	3.912519001	<b>1.5650076</b>
14_15	20.5876	2.21533011	1.65	2.7359	3.906453404	<b>1.562581362</b>
15_16	20.3215	2.20595584	1.65	2.6637	3.787268579	<b>1.514907432</b>
16_17	19.9276	2.19188136	1	2.6637	2.280669676	<b>0.912267871</b>
17_18	19.4263	2.17361504	1	2.6637	2.261663433	<b>0.904665373</b>
18_19	18.8443	2.15188672	1	3.8759	3.258006935	<b>1.303202774</b>
19_20	18.2165	2.1277846	2	3.8759	4.510122062	<b>1.804048825</b>
20_21	17.6144	2.10398158	2	3.8759	4.459668387	<b>1.783867355</b>
21_22	17.0737	2.08199621	2	5.13	5.840975301	<b>2.33639012</b>
22_23	16.5926	2.06192046	2	5.13	5.784653424	<b>2.31386137</b>
23_24	16.2087	2.04553546	2	5.13	5.738685803	<b>2.295474321</b>
24_25	15.9677	2.03507683	2	6.33	7.04486362	<b>2.817945448</b>
25_26	15.9412	2.03391849	2	6.33	7.040853756	<b>2.816341502</b>
26_27	8.4213	2.04404657	2	8.0025	8.945498318	<b>3.578199327</b>

▪ Empuje vertical sobre el arco

De igual modo al empuje horizontal, el empuje varía según la altura del arco y de la superficie expuesta al viento, que también cambia puesto que el ancho es variable.

Se divide el arco en tramos de longitud igual a la proyección de cada barra de 2.5 metros sobre la horizontal. Tomando el coeficiente de fuerza igual a  $\pm 0.9$  (presión y succión) y operando de igual modo que con el empuje vertical sobre el tablero se obtienen los resultados que se resumen en la siguiente tabla:

EMPUJE VERTICAL SOBRE EL ARCO DEBIDO AL VIENTO						
Tramo	z	C <sub>e</sub>	A <sub>ref</sub>	F <sub>w</sub> total por barra	L	Carga distribuida
	m		m <sup>2</sup>	KN	m	KN/m
1_2	9.2532	1.66842979	5	2.932786732	1.87	<b>1.568335151</b>
2_3	10.9121	1.77631699	2.529747	1.579792705	1.88	<b>0.840315269</b>
3_4	12.55	1.86980084	3.856887	2.535331838	1.9	<b>1.334385178</b>
4_5	14.1288	1.95043866	2.526414	1.732364835	1.98	<b>0.874931735</b>
5_6	15.5544	2.01681835	2.72082071	1.929164461	2.13	<b>0.905711015</b>
6_7	16.7668	2.06924723	2.98840465	2.173973923	2.25	<b>0.966210632</b>
7_8	17.7851	2.11080078	3.1034808	2.303026068	2.32	<b>0.99268365</b>
8_9	18.6467	2.1443768	3.4510632	2.601696046	2.37	<b>1.097762045</b>
9_10	19.3669	2.17142354	3.94045819	3.00811067	2.42	<b>1.243020938</b>
10_11	19.9387	2.19228127	4.62162708	3.56199838	2.46	<b>1.447966821</b>
11_12	20.3546	2.2071277	5.51214188	4.277109741	2.48	<b>1.724641025</b>
12_13	20.6069	2.21600591	6.68169713	5.205473544	2.5	<b>2.082189417</b>
13_14	20.686	2.21876988	8.14842464	6.356066888	2.5	<b>2.542426755</b>
14_15	20.5876	2.21533011	9.95968512	7.756871598	2.49	<b>3.115209477</b>
15_16	20.3215	2.20595584	12.1263999	9.40440329	2.48	<b>3.792098101</b>
16_17	19.9276	2.19188136	12.6385347	9.739043662	2.3	<b>4.234366809</b>
17_18	19.4263	2.17361504	15.8081975	12.08001652	2.27	<b>5.321593181</b>
18_19	18.8443	2.15188672	18.31728	13.85743769	2.22	<b>6.242089049</b>
19_20	18.2165	2.1277846	20.9346057	15.66011657	2.18	<b>7.183539709</b>
20_21	17.6144	2.10398158	23.6648608	17.50444845	2.13	<b>8.218050915</b>
21_22	17.0737	2.08199621	26.5212017	19.41224108	2.12	<b>9.156717489</b>
22_23	16.5926	2.06192046	9.1549705	6.636382387	2.09	<b>3.175302578</b>
23_24	16.2087	2.04553546	6.92880563	4.982736654	2.04	<b>2.442517968</b>
24_25	15.9677	2.03507683	6.44247296	4.609310431	1.98	<b>2.327934561</b>
25_26	15.9412	2.03391849	6.09282695	4.356672666	1.98	<b>2.20033973</b>
26_27	8.4213	2.04404657	5.8460776	4.201050529	1.96	<b>2.143393127</b>

▪ Empuje longitudinal sobre el arco

El empuje es un porcentaje del empuje horizontal, multiplicado además por un coeficiente reductor. Se tomará al igual que en el empuje longitudinal sobre el tablero, una fracción de un 25 % y un coeficiente reductor de 0.82741.

En este caso la longitud de 2.5 metros de cada barra se proyecta sobre la vertical, para obtener la carga distribuida de cada una de ellas. Operando igual que con el empuje longitudinal sobre el tablero se obtienen los resultados que se resumen en la siguiente tabla:



EMPUJE LONGITUDINAL SOBRE EL ARCO DEBIDO AL VIENTO			
Tramo	F <sub>w</sub> total por viga KN	L m	Carga distribuida KN/m
1_2	0.618405514	1.66	<b>0.410621261</b>
2_3	0.544652453	1.66	<b>0.361649229</b>
3_4	0.401272441	1.63	<b>0.261629632</b>
4_5	0.198947482	1.53	<b>0.121755859</b>
5_6	0.264176543	1.32	<b>0.139485215</b>
6_7	0.284540817	1.1	<b>0.125197959</b>
7_8	0.290254818	0.94	<b>0.109135812</b>
8_9	0.294871834	0.79	<b>0.0931795</b>
9_10	0.363400325	0.65	<b>0.094484084</b>
10_11	0.28827149	0.5	<b>0.057654298</b>
11_12	0.290223704	0.3	<b>0.034826844</b>
12_13	0.322982215	0.18	<b>0.023254719</b>
13_14	0.323385063	0	<b>0</b>
14_15	0.322883718	0.19	<b>0.024539163</b>
15_16	0.313032624	0.35	<b>0.043824567</b>
16_17	0.188506307	0.44	<b>0.03317711</b>
17_18	0.186935366	0.58	<b>0.043369005</b>
18_19	0.26928707	0.74	<b>0.079708973</b>
19_20	0.372779303	0.86	<b>0.12823608</b>
20_21	0.368609109	1.05	<b>0.154815826</b>
21_22	0.482779551	1.12	<b>0.216285239</b>
22_23	0.478124326	1.23	<b>0.235237169</b>
23_24	0.474324922	1.3	<b>0.246648959</b>
24_25	0.582285649	1.36	<b>0.316763393</b>
25_26	0.581954218	1.41	<b>0.328222179</b>
26_27	0.739380572	1.46	<b>0.431798254</b>

- Sobrecarga de nieve sobre el arco:

Al igual que con las cargas del viento, la nieve también se reparte sobre el arco en función del área del arco expuesta (cara exterior del arco). La carga se reparte sobre las barras en función de la proyección horizontal de las mismas. En la siguiente tabla se resume las cargas de cada barra:

CARGA DE LA NIEVE SOBRE EL ARCO				
Tramo	A <sub>ref</sub> m <sup>2</sup>	Carga por barra KN	L m	Carga distribuida KN/m
1_2	5	7.5	1.87	<b>4.01069519</b>
2_3	2.529747	3.7946205	1.88	<b>2.01841516</b>
3_4	3.856887	5.7853305	1.9	<b>3.04491079</b>
4_5	2.526414	3.789621	1.98	<b>1.91395</b>
5_6	2.72082071	4.08123107	2.13	<b>1.91607092</b>
6_7	2.98840465	4.48260698	2.25	<b>1.99226977</b>
7_8	3.1034808	4.6552212	2.32	<b>2.00656086</b>
8_9	3.4510632	5.1765948	2.37	<b>2.18421722</b>
9_10	3.94045819	5.91068729	2.42	<b>2.44243276</b>
10_11	4.62162708	6.93244062	2.46	<b>2.81806529</b>
11_12	5.51214188	8.26821282	2.48	<b>3.33395678</b>
12_13	6.68169713	10.0225457	2.5	<b>4.00901828</b>
13_14	8.14842464	12.222637	2.5	<b>4.88905478</b>
14_15	9.95968512	14.9395277	2.49	<b>5.99981031</b>
15_16	12.1263999	18.1895998	2.48	<b>7.33451606</b>
16_17	12.6385347	18.9578021	2.3	<b>8.24252264</b>
17_18	15.8081975	23.7122963	2.27	<b>10.4459455</b>
18_19	18.31728	27.47592	2.22	<b>12.3765405</b>
19_20	20.9346057	31.4019085	2.18	<b>14.4045452</b>
20_21	23.6648608	35.4972912	2.13	<b>16.6653949</b>
21_22	26.5212017	39.7818025	2.12	<b>18.7650012</b>
22_23	9.1549705	13.7324558	2.09	<b>6.57055299</b>
23_24	6.92880563	10.3932084	2.04	<b>5.09471002</b>
24_25	6.44247296	9.66370944	1.98	<b>4.88066133</b>
25_26	6.09282695	9.13924043	1.98	<b>4.61577799</b>
26_27	5.8460776	8.7691164	1.96	<b>4.47403898</b>

#### Nieve

- Sobrecarga de nieve sobre el tablero. Se aplican sobre las vigas de piso y los cuchillos:

-  $q_{sk} = 1.5 \text{ KN/m}^2$

- **Carga distribuida**

$$q = q_{sk} \cdot s = 1.5 \cdot 2.5 = 3.75 \text{ KN/m}$$

**Temperatura**

La temperatura afecta a todos los elementos estructurales del puente, y se aplica en función de lo descrito en el apartado III.2.2. *Valores característicos de las acciones.*

**IV.3.4. Hipótesis de carga**

En base a los criterios comentados en el apartado III.2.5. *Combinación de acciones*, surge tanto para ELU como para ELS un conjunto de 78 combinaciones de acciones diferentes en función de la acción variable predominante y de sus posibles combinaciones con el resto de acciones.

En la siguiente tabla se enumeran y nombran las hipótesis, y se indica también cual es la acción variable predominante:

Combinación	NOMBRE	Predominante
1	G1 CARRO CENTRO VTRANS	USO
2	G1 CARRO CENTRO VLONG	USO
3	G1 CARRO CENTRO APOYO VTRANS	USO
4	G1 CARRO CENTRO APOYO VLONG	USO
5	G1 CARRO LONG VTRANS	USO
6	G1 CARRO LONG VLONG	USO
7	G1 CARRO LONG APOYO VTRANS	USO
8	G1 CARRO LONG APOYO VLONG	USO
9	G1 CARRO CENTRO DIL P+20	USO
10	G1 CARRO CENTRO DIL P-10	USO
11	G1 CARRO CENTRO APOYO DIL P+20	USO
12	G1 CARRO CENTRO APOYO DIL P-10	USO
13	G1 CARRO LONG VTRANS DIL +20	USO
14	G1 CARRO LONG VLONG DIL-10	USO
15	G1 CARRO LONG APOYO VTRANS DIL+20	USO
16	G1 CARRO LONG APOYO VLONG DIL-10	USO
17	G1 CARRO CENTRO CON P+20	USO
18	G1 CARRO CENTRO CON P-10	USO
19	G1 CARRO CENTRO APOYO CON P+20	USO
20	G1 CARRO CENTRO APOYO CON P-10	USO
21	G1 CARRO LONG VTRANS CON +20	USO
22	G1 CARRO LONG VLONG CON -10	USO
23	G1 CARRO LONG APOYO VTRANS CON+20	USO
24	G1 CARRO LONG APOYO VLONG CON -10	USO

25	G2 CARRO CENTRO DIL P+20	USO
26	G2 CARRO CENTRO DIL P-10	USO
27	G2 CARRO CENTRO APOYO DIL P+20	USO
28	G2 CARRO CENTRO APOYO DIL P-10	USO
29	G2 CARRO LONG VTRANS DIL +20	USO
30	G2 CARRO LONG VLONG DIL-10	USO
31	G2 CARRO LONG APOYO VTRANS DIL+20	USO
32	G2 CARRO LONG APOYO VLONG DIL-10	USO
33	G2 CARRO CENTRO CON P+20	USO
34	G2 CARRO CENTRO CON P-10	USO
35	G2 CARRO CENTRO APOYO CON P+20	USO
36	G2 CARRO CENTRO APOYO CON P-10	USO
37	G2 CARRO LONG VTRANS CON +20	USO
38	G2 CARRO LONG VLONG CON -10	USO
39	G2 CARRO LONG APOYO VTRANS CON+20	USO
40	G2 CARRO LONG APOYO VLONG CON -10	USO
41	G3 VTRANS	USO
42	G3 VLONG	USO
43	G3 DIL P+20	USO
44	G3 DIL P-10	USO
45	G3 CON P+20	USO
46	G3 CON P-10	USO
47	VIENTO DER EMPUJE	VIENTO
48	VIENTO LONG TEMP	VIENTO
49	VIENTO IZQ EMPUJE	VIENTO
50	VIENTO LONG OBER	VIENTO
51	VIENTO DER SUCCION	VIENTO
52	VIENTO IZQ SUCCION	VIENTO
53	NIEVE VIENTO TRANS	NIEVE
54	NIEVE VIENTO LONG	NIEVE
55	NIEVE CONT P+20	NIEVE
56	NIEVE CONT P-10	NIEVE
57	T G1 CARRO CENTRO DIL P+20	TEMPERATURA
58	T G1 CARRO CENTRO DIL P-10	TEMPERATURA
59	T G1 CARRO CENTRO APOYO DIL P+20	TEMPERATURA
60	T G1 CARRO CENTRO APOYO DIL P-10	TEMPERATURA
61	T G1 CARRO LONG VTRANS DIL +20	TEMPERATURA
62	T G1 CARRO LONG VLONG DIL-10	TEMPERATURA



63	T G1 CARRO LONG APOYO VTRANS DIL+20	TEMPERATURA
64	T G1 CARRO LONG APOYO VLONG DIL-10	TEMPERATURA
65	T G1 CARRO CENTRO CON P+20	TEMPERATURA
66	T G1 CARRO CENTRO CON P-10	TEMPERATURA
67	T G1 CARRO CENTRO APOYO CON P+20	TEMPERATURA
68	T G1 CARRO CENTRO APOYO CON P-10	TEMPERATURA
69	T G1 CARRO LONG VTRANS CON +20	TEMPERATURA
70	T G1 CARRO LONG VLONG CON -10	TEMPERATURA
71	T G1 CARRO LONG APOYO VTRANS CON+20	TEMPERATURA
72	T G1 CARRO LONG APOYO VLONG CON -10	TEMPERATURA
73	T G3 DIL P+20	TEMPERATURA
74	T G3 DIL P-10	TEMPERATURA
75	T G3 CON P+20	TEMPERATURA
76	T G3 CON P-10	TEMPERATURA
77	T NIEVE CON P+20	TEMPERATURA
78	T NIEVE CON P-10	TEMPERATURA

En función del valor de los factores de simultaneidad hay combinaciones que se pueden evitar introducir al modelo por ser menos desfavorables, sobre todo en las combinaciones de ELS en las que interviene el factor de simultaneidad  $\Psi_2$ , que en general es igual a cero.

#### IV.3.5. Interpretación de resultados

A partir de los resultados se puede apreciar que el funcionamiento del puente es diferente al de un puente arco de tablero inferior convencional. En el diagrama de axiles se puede comprobar que la forma de arco ayuda a resistir, y es que los axiles en todo el arco son bastante constantes y simulan el antifunicular de una carga distribuida a lo largo del arco:

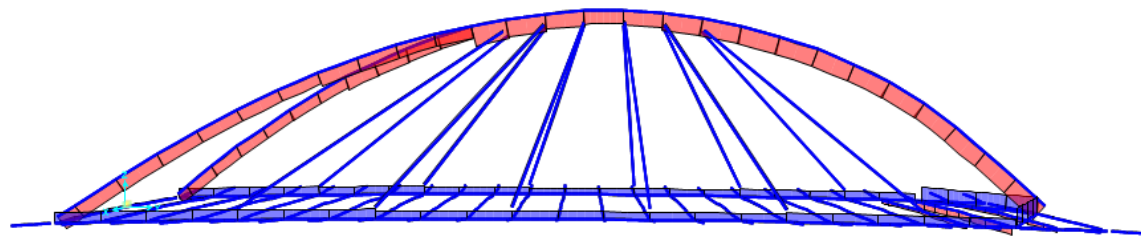


Figura 9. DIAGRAMA DE AXILES

En la bifurcación del arco los axiles se reducen a un valor que parece ser la mitad del de los axiles en el resto del arco. Además se puede comprobar que las vigas longitudinales trabajan a tracción, estirando del arco y evitando

la transmisión de empujes horizontales a las subestructuras. Las vigas diagonales transmiten correctamente las tracciones a las vigas longitudinales. Por lo tanto, el funcionamiento del puente como bowstring es correcto. No obstante en el diagrama de flectores se puede ver como aparecen flexiones de gran importancia y de diferente signo a lo largo de toda la directriz del arco. Esto se debe a que la conexión de los tirantes en el arco se realiza de forma muy centrada, es decir, muy cerca de la clave, para cumplir los gálibos exigidos para los vehículos. Se sacrifica, en cierto modo, la eficiencia estructural del arco por la estética, de manera que el arco no funciona exclusivamente a axil de compresión como se espera que haga, sino que aparecen flexiones de gran importancia y de diferente signo a lo largo de toda la directriz del arco.

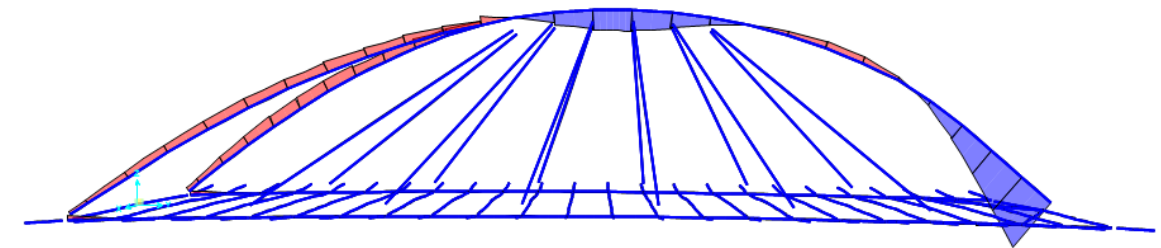


Figura 10. DIAGRAMA DE MOMENTOS

Por ese motivo en los apoyos del arco el giro en el eje transversal al puente debe estar coaccionado, para poder resistir los momentos que se transmiten. Gracias a que las secciones en los apoyos tienen unos cantos importantes, se realizará la coacción del giro apoyando un extremo de la sección (el que esté a compresión) y anclando el otro (el que está a tracción).

Se ha de tener en cuenta que el signo de los flectores que llegan a los extremos del arco es diferente en un lado del puente y en otro. Mientras que en el lado Oberladnstrasse el momento es positivo, en el lado Tempelhof el momento es negativo. Eso quiere decir que el anclaje estará en distinta posición en un lado que en otro del puente. En el lado Oberlandstrasse el tirante estará en el interior del arco y en el lado Tempelhof estará en el exterior.

En la deformada se puede observar que en el lado Oberlandstrasse la rigidez de la sección es capaz de volver a cambiar la curvatura.

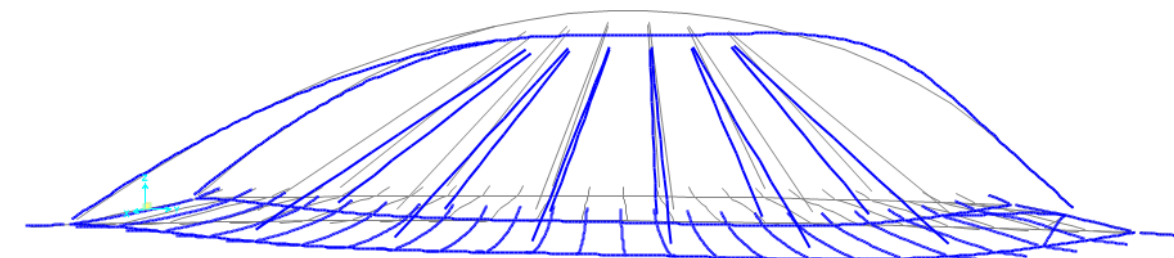


Figura 11. DEFORMADA



## V. Comprobaciones y dimensionamiento

A partir de los resultados obtenidos del análisis se realiza la comprobación y dimensionamiento resistente de los estados límite último, en este caso ELU de rotura, y el cumplimiento de los estados límite de servicio de fisuración en los elementos de hormigón armado (losa y arco). También se comprobará el cumplimiento de flechas exigidas para puentes y para el cumplimiento de los gálibos exigidos para los trenes.

### V.1. Tablero

El tablero formado por vigas metálicas ha de soportar axiles, esfuerzos de flexión y cortante en las almas. Se comprobarán aquellas secciones más desfavorables (con mayores esfuerzos) y aquellas que supongan un punto de especial interés por su posición.

#### V.1.1. Vigas metálicas

##### ■ Vigas de piso

Las vigas de piso son de canto variable. Se comprobarán las secciones de centro de luz y las secciones de unión con los cajones.

##### a) Sección centro de luz

Los esfuerzos más desfavorables y sus concomitantes en centro de luz son, despreciando los cortantes y flectores en la dirección del eje débil y los torsores debido a su pequeña magnitud:

	N	Vy	Mz
	KN	KN	KN-m
<b>N max (T)</b>	2824.933196	-271.0315468	823.5561594
<b>N min (C)</b>	-1551.434253	-141.4999523	-524.6213032
<b>V2 Max</b>	1742.535402	138.597848	635.9335408
<b>V2 Min</b>	1626.399506	-619.8678077	-725.3790853
<b>M3 max</b>	2685.066119	-95.21777956	867.3194884
<b>M3 min</b>	1609.808809	-618.488604	-728.4425193

##### MÁXIMO AXIL DE COMPRESIÓN

##### Clase de la sección

- Para las alas a tracción la clase es 1 o 2.
- Para las alas a compresión se tiene:

$$c = \frac{B - t_w}{2} = \frac{250 - 15}{2} = 117.5 \text{ mm} \quad ; \quad t_f = 22 \text{ mm} \quad y \quad \varepsilon = \sqrt{\frac{235}{f_y}} = \sqrt{\frac{235}{355}} = 0.814$$

$$\frac{c}{t_f} = \frac{117.5}{22} = 5.32 < 9 \cdot \varepsilon = 7.33 \rightarrow \text{El ala es clase 1}$$

- Para el alma a flexo-compresión

- Distribución de tensiones normales (siendo (-) compresión y (+) tracción):

Como no está biempotrado pero tampoco biarticulado suponemos un  $\beta=0.7$  para el pandeo contenido en el plano. La losa de hormigón arriostra frente a pandeo fuera del plano y frente a pandeo lateral. Al tener canto variable obtenemos la inercia y el área media de las secciones:

$$I_{h=0.7} = 1.64 \cdot 10^9 \text{ mm}^4 \quad A_{h=0.7} = 21496 \text{ mm}^2$$

$$I_{h=0.9} = 2.96 \cdot 10^9 \text{ mm}^4 \quad A_{h=0.9} = 24696 \text{ mm}^2$$

$$I_z = 2.3 \cdot 10^9 \text{ mm}^4 \quad A = 23096 \text{ mm}^2$$

$$P_{cr,z} = \frac{\pi^2 \cdot E \cdot I_z}{L_{p,z}^2} = \frac{\pi^2 \cdot 2.1 \cdot 230000}{(0.7 \cdot 16)^2} = 38002 \text{ KN}$$

$$\bar{\lambda}_z = \sqrt{\frac{A \cdot f_y}{P_{cr,z}}} = \sqrt{\frac{23096 \cdot 355}{38002 \cdot 1000}} = 0.4645$$

Para perfiles armados en con secciones en doble T y espesor de ala menor a 40 mm, vamos a la curva c y obtenemos  $\chi=0.8671$

$$\sigma = \frac{N}{A \cdot \chi} \pm \frac{M}{I_z} \cdot v = \frac{-1551.434 \cdot 10^3}{24696 \cdot 0.8671} \pm \frac{524.62 \cdot 10^6}{2.96 \cdot 10^9} \cdot 450$$

$$\sigma_1 = 7.31 \text{ MPa} \quad ; \quad \sigma_2 = -152.21 \text{ MPa}$$

$$\text{En el límite entre clase 2 y 3} \rightarrow \alpha = \frac{152.21}{152.21 + 7.31} = 0.954$$

$$c = H - 2 \cdot t_f = 900 - 44 = 856 \text{ mm} \quad ; \quad t_f = 15 \text{ mm} \quad y \quad \varepsilon = \sqrt{\frac{235}{f_y}} = \sqrt{\frac{235}{355}} = 0.814$$

$$\frac{c}{t_w} = \frac{856}{15} = 53.5$$



$$\alpha > 0.5 \rightarrow \frac{456 \cdot 0.814}{13 \cdot 0.954 - 1} = 32.55 \rightarrow \text{No es clase 2}$$

$$\Psi = \frac{7.31}{-152.21} = -0.048 > -1 \rightarrow \frac{42 \cdot 0.814}{0.67 + 0.33 \cdot (-0.048)} = 54.2 \rightarrow \text{Es clase 3}$$

Por lo tanto la sección es de clase 3

#### Comprobación de resistencia

El cortante de cálculo es  $V_{Ed}=141.5$  KN, por tanto:

$$\tau_{m\acute{a}x} = \frac{V_{Ed}}{A_w} = \frac{141.5 \cdot 10^3}{856 \cdot 15} = 10.33 \text{ MPa}$$

$$\sigma_{COM} = \sqrt{\sigma^2 + 3 \cdot \tau^2} = \sqrt{152.21^2 + 3 \cdot 10.33^2} = 153.26 \text{ MPa} < f_{yd} = \frac{355}{1.05} = 338 \text{ MPa}$$

Con un aprovechamiento de:

$$\mu = \frac{\sigma_{COM}}{f_{yd}} = \frac{153.26}{338} = 0.4534 \rightarrow 45.34 \%$$

#### MÁXIMO AXIL DE TRACCIÓN, MÁXIMO FLECTOR Y MÁXIMO CORTANTE

Como el resto de combinaciones son con axil de tracción y algunas combinaciones son muy similares, comprobamos para una envolvente de los esfuerzos más desfavorables:

#### Clase de la sección

- Para las alas a tracción la clase es 1 o 2.
- Para las alas a compresión se tiene:

$$c = \frac{B - t_w}{2} = \frac{250 - 15}{2} = 117.5 \text{ mm} ; t_f = 22 \text{ mm} \text{ y } \varepsilon = \sqrt{\frac{235}{f_y}} = \sqrt{\frac{235}{355}} = 0.814$$

$$\frac{c}{t_f} = \frac{117.5}{22} = 5.32 < 9 \cdot \varepsilon = 7.33 \rightarrow \text{El ala es clase 1}$$

- Para el alma a flexo-tracción

- Distribución de tensiones normales (siendo (-) compresión y (+) tracción):

Como está a tracción no hay pandeo:

$$\sigma = \frac{N}{A} \pm \frac{M}{I_z} \cdot v = \frac{2824.93 \cdot 10^3}{24696} \pm \frac{867.32 \cdot 10^6}{2.96 \cdot 10^9} \cdot 450$$

$$\sigma_1 = -10.82 \text{ MPa} ; \sigma_2 = 239.59 \text{ MPa}$$

$$\text{En el límite entre clase 2 y 3} \rightarrow \alpha = \frac{10.82}{10.82 + 239.59} = 0.0432$$

$$c = H - 2 \cdot t_f = 900 - 44 = 856 \text{ mm} ; t_w = 15 \text{ mm} \text{ y } \varepsilon = \sqrt{\frac{235}{f_y}} = \sqrt{\frac{235}{355}} = 0.814$$

$$\frac{c}{t_w} = \frac{856}{15} = 53.5$$

$$\alpha < 0.5 \rightarrow \frac{41.5 \cdot 0.814}{0.0432} = 781.97 \rightarrow \text{Es clase 2}$$

Suponemos ahora clase 1 o 2, con  $x = \delta c$  y  $\alpha = 1 - \delta$

$$N_{Ed} = f_{yd} \cdot A_1(x) - f_{yd} \cdot A_2(x)$$

$$N_{Ed} = f_{yd} \cdot A_1(x) - f_{yd} \cdot A - A_1(x)$$

$$N_{Ed} = 2 \cdot f_{yd} \cdot A_1(x) - f_{yd} \cdot A = 2 \cdot f_{yd} \cdot A_1(x) - N_{pl}$$

$$2824.93 = 2 \cdot 338 \cdot 10^3 \cdot A_1(x) - 338 \cdot 10^{-3} \cdot 24696$$

$$2824.93 + 8347.25 = 2 \cdot 338 \cdot 10^{-3} \cdot [250 \cdot 22 + 15 \cdot x]$$

$$11172.18 = 3718 + 10.14 \cdot x \rightarrow x = 735.13 \text{ mm} \rightarrow \delta = \frac{735.13}{900} = 0.8168$$

$$\alpha = 1 - \delta = 1 - 0.8168 = 0.1832$$

$$\alpha < 0.5 \rightarrow \frac{36 \cdot 0.814}{0.1832} = 159.97 > 43.73 \rightarrow \text{Es clase 1}$$

Por lo tanto la sección es de clase 1

*Comprobación de resistencia*

El cortante plástico es:

$$V_{pl} = A_w \cdot \frac{f_{yd}}{\sqrt{3}} = 856 \cdot 15 \cdot \frac{338 \cdot 10^{-3}}{\sqrt{3}} = 2505.65 \text{ KN}$$

El cortante de cálculo es  $V_{Ed}=619.87 \text{ KN} < V_{pl}/2$ , por tanto no hay reducción de la resistencia a flexión:

$$\tau_{m\acute{a}x} = \frac{V_{Ed}}{A_w} = \frac{619.87 \cdot 10^3}{856 \cdot 15} = 48.28 \text{ MPa} < f_{yd} = \frac{355}{1.05} = 338 \text{ MPa}$$

$$\sigma_{max} = 239.59 \text{ MPa} < f_{yd} = \frac{355}{1.05} = 338 \text{ MPa}$$

Con un aprovechamiento de:

$$\mu = \frac{\sigma_{m\acute{a}x}}{f_{yd}} = \frac{239.59}{338} = 0.7088 \rightarrow 70.9 \%$$

## b) Sección apoyo (unión con cajón longitudinal):

Los esfuerzos más desfavorables y sus concomitantes en la sección son, despreciando los cortantes y flectores en la dirección del eje débil y los torsos debido a su pequeño valor:

	N	Vy	Mz
	KN	KN	KN-m
<b>N max (T)</b>	1389.40323	580.286091	-634.98046
<b>N min (C)</b>	-1525.1977	473.392357	-385.934796
<b>V2 Max</b>	557.358844	861.455388	-1092.46383
<b>V2 Min</b>	548.741633	135.813083	19.9220243
<b>M3 max</b>	515.596403	191.480543	56.5513244
<b>M3 min</b>	516.423329	822.555943	-1146.83252

Observando la magnitud de los esfuerzos, y a fin de evitar realizar 6 comprobaciones diferentes, decidimos comprobar para una envolvente de los esfuerzos más desfavorables, con el axil de compresión, ya que es mayor que el de tracción y además se ve penalizado por el pandeo:

*Clase de la sección*

- Para las alas a tracción la clase es 1 o 2.
- Para las alas a compresión se tiene:

$$c = \frac{B - t_w}{2} = \frac{250 - 15}{2} = 117.5 \text{ mm} ; t_f = 22 \text{ mm} \text{ y } \varepsilon = \sqrt{\frac{235}{f_y}} = \sqrt{\frac{235}{355}} = 0.814$$

$$\frac{c}{t_f} = \frac{117.5}{22} = 5.32 < 9 \cdot \varepsilon = 7.33 \rightarrow \text{El ala es clase 1}$$

- Para el alma a flexo-compresión

- Distribución de tensiones normales (siendo (-) compresión y (+) tracción):

Como no está biempotrado pero tampoco biarticulado suponemos una  $\beta=0.7$  para el pandeo contenido en el plano. La losa de hormigón arriostra frente a pandeo fuera del plano y frente a pandeo lateral. Al tener canto variable obtenemos la inercia y el área media de las secciones:

$$I_{h=0.7} = 1.64 \cdot 10^9 \text{ mm}^4 \quad A_{h=0.7} = 21496 \text{ mm}^2$$

$$I_{h=0.9} = 2.96 \cdot 10^9 \text{ mm}^4 \quad A_{h=0.9} = 24696 \text{ mm}^2$$

$$I_z = 2.3 \cdot 10^9 \text{ mm}^4 \quad A = 23096 \text{ mm}^2$$

$$P_{cr,z} = \frac{\pi^2 \cdot E \cdot I_z}{L_{p,z}^2} = \frac{\pi^2 \cdot 2.1 \cdot 230000}{(0.7 \cdot 16)^2} = 38002 \text{ KN}$$

$$\bar{\lambda}_z = \sqrt{\frac{A \cdot f_y}{P_{cr,z}}} = \sqrt{\frac{23096 \cdot 355}{38002 \cdot 1000}} = 0.4645$$

Para perfiles armados en con secciones en doble T y espesor de ala menor a 40 mm, vamos a la curva c y obtenemos  $\chi=0.8671$

$$\sigma = \frac{N}{A \cdot \chi} \pm \frac{M}{I_z} \cdot v = \frac{-1525.2 \cdot 10^3}{21496 \cdot 0.8671} \pm \frac{1146.83 \cdot 10^6}{1.64 \cdot 10^9} \cdot 350$$

$$\sigma_1 = 162.92 \text{ MPa} ; \sigma_2 = -326.58 \text{ MPa}$$

$$\text{En el límite entre clase 2 y 3} \rightarrow \alpha = \frac{326.58}{326.58 + 162.92} = 0.667$$

$$c = H - 2 \cdot t_f = 700 - 44 = 656 \text{ mm} ; t_w = 15 \text{ mm} \text{ y } \varepsilon = \sqrt{\frac{235}{f_y}} = \sqrt{\frac{235}{355}} = 0.814$$



$$\frac{c}{t_w} = \frac{656}{15} = 43.73$$

$$\alpha > 0.5 \rightarrow \frac{456 \cdot 0.814}{13 \cdot 0.667 - 1} = 48.39 \rightarrow \text{Es clase 2}$$

Suponemos ahora clase 1 o 2, con  $x = \alpha c$

$$N_{Ed} = f_{yd} \cdot A_2(x) - f_{yd} \cdot A_1(x)$$

$$N_{Ed} = f_{yd} \cdot A_2(x) - f_{yd} \cdot A - A_2(x)$$

$$N_{Ed} = 2 \cdot f_{yd} \cdot A_2(x) - f_{yd} \cdot A = 2 \cdot f_{yd} \cdot A_2(x) - N_{pl}$$

$$1525.2 = 2 \cdot 338 \cdot 10^3 \cdot A_2(x) - 338 \cdot 10^{-3} \cdot 21496$$

$$1525.2 + 7265.65 = 2 \cdot 338 \cdot 10^{-3} \cdot [250 \cdot 22 + 15 \cdot x]$$

$$8790.85 = 3718 + 10.14 \cdot x \rightarrow x = 500.22 \text{ mm} \rightarrow \alpha = \frac{500.22}{700} = 0.7146$$

$$\alpha > 0.5 \rightarrow \frac{396 \cdot 0.814}{13 \cdot 0.7146 - 1} = 38.88 \rightarrow \text{No es clase 1}$$

$$\alpha > 0.5 \rightarrow \frac{456 \cdot 0.814}{13 \cdot 0.7146 - 1} = 44.78 > 43.73 \rightarrow \text{Es clase 2}$$

**Por lo tanto la sección es de clase 2**

#### Comprobación de resistencia

El cortante plástico es:

$$V_{pl} = A_w \cdot \frac{f_{yd}}{\sqrt{3}} = 656 \cdot 15 \cdot \frac{338 \cdot 10^{-3}}{\sqrt{3}} = 1920.22 \text{ kN}$$

El cortante de cálculo es  $V_{Ed} = 861.46 \text{ kN} < V_{pl}/2$ , por tanto no hay reducción de la resistencia a flexión:

$$\tau_{m\acute{a}x} = \frac{V_{Ed}}{A_w} = \frac{861.46 \cdot 10^3}{656 \cdot 15} = 87.55 \text{ MPa} < f_{yd} = \frac{355}{1.05} = 338 \text{ MPa}$$

$$\sigma_{max} = 326.58 \text{ MPa} < f_{yd} = \frac{355}{1.05} = 338 \text{ MPa}$$

Con un aprovechamiento de:

$$\mu = \frac{\sigma_{m\acute{a}x}}{f_{yd}} = \frac{326.58}{338} = 0.966 \rightarrow 96.6 \%$$

Aunque parece un resultado demasiado ajustado, hemos de recordar que se ha comprobado para una envolvente de los esfuerzos más desfavorables, lo cual es una situación que no se va a dar en la realidad y de ese modo la comprobación está del lado de la seguridad.

#### Dimensionamiento de rigidizadores

Vemos si es necesaria la comprobación de abolladura. Será necesaria si:

$$\frac{h_w}{t_w} > \frac{72 \cdot \varepsilon}{\eta}$$

Para la sección de entronque:

$$\frac{656}{15} = 43.73 < \frac{72 \cdot 0.814}{1.2} = 48.84 \rightarrow \text{No es necesaria}$$

Para la sección centro-luz:

$$\frac{856}{15} = 57.1 > \frac{72 \cdot 0.814}{1.2} = 48.84 \rightarrow \text{Es necesaria}$$

Para bloquear la abolladura por cortante y el aplastamiento del alma suponemos rigidizadores cada 4 metros, en centro de luz y a 1/4 de la luz, para tener en cuenta el paso de un vehículo pesado, que supone una carga concentrada:

$$\frac{h_w}{t_w} \leq \frac{31 \cdot \varepsilon}{\eta} \cdot \sqrt{K_\tau}$$

Con rigidizadores separados cada 4 metros y canto medio del alma 0.756 metros:

$$\frac{a}{h_w} = \frac{4}{0.756} = 5.29 > 1 \rightarrow K_\tau = 5.34 + 4 \cdot \left(\frac{0.756}{4}\right)^2 = 5.483$$

$$\frac{756}{15} = 47.25 < \frac{31 \cdot 0.814}{1.2} \cdot \sqrt{5.483} = 49.24 \rightarrow \text{No abolla por cortante}$$

Para obtener el espesor de chapa de los rigidizadores suponemos que absorben el mayor cortante que al que se encuentra sometido la viga (861.46 kN, en el entronque):

$$t_r = \frac{V_{Ed}}{B_r \cdot f_{yd}} = \frac{861.46 \cdot 10^3}{(250 - 15) \cdot 338} = 10.85 \text{ mm} \rightarrow \text{Rigidizadores de 12 mm de espesor}$$





#### ■ Cuchillos transversales

Los cuchillos son de canto variable. Se comprobará la sección de unión con el cajón longitudinal.

Los esfuerzos más desfavorables y sus concomitantes en la sección son, despreciando los cortantes y flectores en la dirección del eje débil y los torsores debido a su pequeño valor:

	N	Vy	Mz
	KN	KN	KN-m
<b>N máx (T)</b>	540.048148	117.60968	66.4469617
<b>N mín (C)</b>	-1512.9054	84.6137412	40.2631409
<b>Vy máx</b>	349.399577	134.431564	44.0977775
<b>Vy mín</b>	-400.032302	-7.00039878	62.2036261
<b>Mz máx</b>	183.464081	95.1202928	131.06771
<b>Mz mín</b>	-182.174122	87.6657731	-83.5965522

Se puede observar que los esfuerzos son menores que en la sección de unión de las vigas de piso con el cajón, teniendo el mismo canto y el mismo ancho de ala. Además los cuchillos tienen más espesor tanto en el ala como en el alma, de manera que se obviarán las comprobaciones de este elemento, salvo para la combinación de mayor axil a compresión, debido a que la longitud de pandeo es diferente y la inercia y el área media del cuchillo también cambian.

#### MÁXIMO AXIL A COMPRESIÓN

##### Clase de la sección

- Para las alas a tracción la clase es 1 o 2.
- Para las alas a compresión se tiene:

$$c = \frac{B - t_w}{2} = \frac{250 - 25}{2} = 112.5 \text{ mm} \quad ; \quad t_f = 25 \text{ mm} \quad y \quad \varepsilon = \sqrt{\frac{235}{f_y}} = \sqrt{\frac{235}{355}} = 0.814$$

$$\frac{c}{t_f} = \frac{112.5}{25} = 4.5 < 9 \cdot \varepsilon = 7.33 \rightarrow \text{El ala es clase 1}$$

- Para el alma a flexo-compresión

- Distribución de tensiones normales (siendo (-) compresión y (+) tracción):

Está empotrado al cajón longitudinal de manera que suponemos una  $\beta=2$  para el pandeo contenido en el plano. La losa de hormigón arriostra frente a pandeo fuera del plano y frente a pandeo lateral. Al tener canto variable obtenemos la inercia y el área media de las secciones:

$$I_{h=0.7} = 1.997 \cdot 10^9 \text{ mm}^4 \quad A_{h=0.7} = 28750 \text{ mm}^2$$

$$I_{h=0.15} = 5.16 \cdot 10^7 \text{ mm}^4 \quad A_{h=0.15} = 15000 \text{ mm}^2$$

$$I_z = 1.02 \cdot 10^9 \text{ mm}^4 \quad A = 21875 \text{ mm}^2$$

$$P_{cr,z} = \frac{\pi^2 \cdot E \cdot I_z}{L_{p,z}^2} = \frac{\pi^2 \cdot 2.1 \cdot 102000}{(2 \cdot 3.75)^2} = 37583.5 \text{ KN}$$

$$\bar{\lambda}_z = \sqrt{\frac{A \cdot f_y}{P_{cr,z}}} = \sqrt{\frac{21875 \cdot 355}{37583.5 \cdot 1000}} = 0.455$$

Para perfiles armados en con secciones en doble T y espesor de ala menor a 40 mm, vamos a la curva c y obtenemos  $\chi=0.8671$

$$\sigma = \frac{N}{A \cdot \chi} \pm \frac{M}{I_z} \cdot v = \frac{-1512.91 \cdot 10^3}{28750 \cdot 0.8671} \pm \frac{40.263 \cdot 10^6}{1.997 \cdot 10^9} \cdot 350$$

$$\sigma_1 = -53.63 \text{ MPa} \quad ; \quad \sigma_2 = -67.75 \text{ MPa}$$

El alma se encuentra toda comprimida:

$$c = H - 2 \cdot t_f = 700 - 50 = 650 \text{ mm} \quad ; \quad t_w = 25 \text{ mm} \quad y \quad \varepsilon = \sqrt{\frac{235}{f_y}} = \sqrt{\frac{235}{355}} = 0.814$$

$$\frac{c}{t_w} = \frac{650}{25} = 26 < 33 \cdot \varepsilon = 26.814 \rightarrow \text{Es clase 1}$$

**Por lo tanto la sección es de clase 1**

#### Comprobación de resistencia

El cortante plástico es:

$$V_{pl} = A_w \cdot \frac{f_{yd}}{\sqrt{3}} = 650 \cdot 25 \cdot \frac{338 \cdot 10^{-3}}{\sqrt{3}} = 3171.1 \text{ KN}$$

El cortante de cálculo es  $V_{Ed}=84.61 \text{ KN} < V_{pl}/2$ , por tanto no hay reducción de la resistencia a flexión:

$$\tau_{máx} = \frac{V_{Ed}}{A_w} = \frac{84.61 \cdot 10^3}{650 \cdot 25} = 5.21 \text{ MPa} < f_{yd} = \frac{355}{1.05} = 338 \text{ MPa}$$



$$\sigma_{max} = 67.75 \text{ MPa} < f_{yd} = \frac{355}{1.05} = 338 \text{ MPa}$$

Con un aprovechamiento de:

$$\mu = \frac{\sigma_{max}}{f_{yd}} = \frac{67.75}{338} = 0.2 \rightarrow 20 \%$$

#### Dimensionamiento de rigidizadores

Vemos si es necesaria la comprobación de abolladura. Será necesaria si:

$$\frac{h_w}{t_w} > \frac{72 \cdot \varepsilon}{\eta}$$

Para la sección de entronque:

$$\frac{650}{25} = 26 < \frac{72 \cdot 0.814}{1.2} = 48.84 \rightarrow \text{No es necesaria}$$

Para la sección del extremo

$$\frac{100}{15} = 4 < \frac{72 \cdot 0.814}{1.2} = 48.84 \rightarrow \text{No es necesaria}$$

No se disponen rigidizadores en los cuchillos.

#### ■ Vigas longitudinales

Las vigas longitudinales son cajones de 1000 mm de ancho y 700 mm de canto, con un espesor de chapa de 25 mm. Las características mecánicas de la sección son:

$$A = 85000 \text{ mm}^2 \quad I_z = 6.843 \cdot 10^9 \text{ mm}^4 \quad I_y = 1.19 \cdot 10^{10} \text{ mm}^4$$

Los esfuerzos más desfavorables a los se están sometidos son:

	N	Vy	Vz	T	My	Mz
	KN	KN	KN	KN-m	KN-m	KN-m
<b>N max</b>	10355.1145	24.1944839	203.761117	-311.279394	-238.365524	1905.18172
<b>N min</b>	-5682.30264	2014.10086	-151.579612	713.467955	170.647802	-7122.04713
<b>Vy max</b>	-5615.37406	2059.3513	-82.0735254	625.042889	71.7411895	-7121.06002
<b>Vy min</b>	1268.0734	-1014.13807	-114.695728	160.216092	-127.000171	-920.535074
<b>Vz max</b>	-4557.78358	1782.13569	945.369119	-910.40156	52.428945	-2119.63274
<b>Vz min</b>	-4562.81959	1816.65705	-506.049082	884.672471	-160.196206	-2187.34351

<b>T max</b>	-5124.62477	1866.01824	-477.35503	891.39896	-192.007617	-2243.97312
<b>T min</b>	-5074.79191	1846.21897	931.980305	-913.650376	65.5265295	-2207.50749
<b>My max</b>	-4563.29991	1838.0838	-506.049082	884.672471	1104.9265	-6755.76957
<b>My min</b>	-4558.2639	1803.56244	945.369119	-910.40156	-2310.99385	6000
<b>Mz max</b>	8364.74465	-444.318822	390.194674	-691.755791	-437.081773	2256.20352
<b>Mz min</b>	-5637.66766	2028.82532	-167.725837	710.245167	229.923677	-7190.03584

En este apartado únicamente se van a desarrollar el caso del momento *My min*, aunque se han comprobado todos los casos. Las compresiones en el cajón longitudinal únicamente se dan en los extremos del puente, de manera que tomaremos longitud de pandeo igual a la separación entre tramos de viga ( $L_p = 7.5$  metros). El pandeo fuera del plano se evita por el arriostramiento que produce la losa, y no hay pandeo lateral porque la sección es un cajón:

$$P_{cr,z} = \frac{\pi^2 \cdot E \cdot I_z}{L_{p,z}^2} = \frac{\pi^2 \cdot 2.1 \cdot 684300}{7.5^2} = 252141 \text{ KN}$$

$$\bar{\lambda}_z = \sqrt{\frac{A \cdot f_y}{P_{cr,z}}} = \sqrt{\frac{85000 \cdot 355}{252141 \cdot 1000}} = 0.346$$

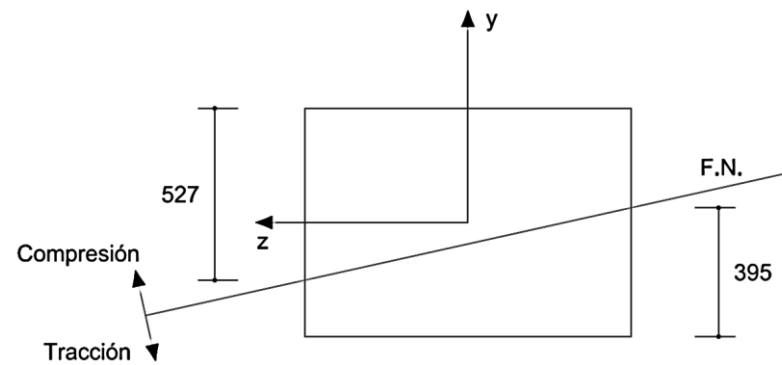
Para secciones armadas en cajón y con  $h/t_w = 28 < 30$  vamos a la curva *c* y obtenemos  $\chi = 0.9261$ .

#### Clase de la sección

Para saber si las chapas están comprimidas o traccionadas es necesario obtener la dirección de la fibra neutra debido a que hay flexión esviada:

$$\text{Para } y = 0 \rightarrow 0 = \frac{-4558.26 \cdot 10^3}{85000 \cdot 0.9261} + \frac{-2310.99 \cdot 10^6}{1.19 \cdot 10^{10}} \cdot z \rightarrow z = -298.17 \text{ mm}$$

$$\text{Para } z = 0 \rightarrow 0 = \frac{-4558.26 \cdot 10^3}{85000 \cdot 0.9261} + \frac{-6000 \cdot 10^6}{6.84 \cdot 10^9} \cdot y \rightarrow y = -66.04 \text{ mm}$$



- Para las alas a tracción la clase es 1 o 2.
- Para las alas a compresión se tiene:

$$c = H - 2 \cdot t_f = 700 - 2 \cdot 25 = 950 \text{ mm} ; \quad t_f = 25 \text{ mm} \quad y \quad \varepsilon = \sqrt{\frac{235}{f_y}} = \sqrt{\frac{235}{355}} = 0.814$$

$$\frac{c}{t_f} = \frac{950}{25} = 38 > 42 \cdot \varepsilon = 34.2 \rightarrow \text{El ala es clase 4}$$

Aumentamos el espesor de las alas para evitar la abolladura:

Con  $t_f=30$  mm

$$\frac{c}{t_f} = \frac{950}{30} = 31.67 < 42 \cdot \varepsilon = 34.2 \rightarrow \text{El ala es clase 3}$$

- Las almas están a flexocompresión

Alma 1:

$$\frac{c}{t} = \frac{650}{25} = 26 \quad \alpha = \frac{527}{700} = 0.753$$

$$\alpha > 0.5 \rightarrow \frac{456 \cdot 0.814}{13 \cdot 0.753 - 1} = 42.23 \gg 26 \rightarrow \text{Es clase 2}$$

Alma 2:

$$\frac{c}{t} = \frac{650}{25} = 26 \quad \alpha = \frac{305}{700} = 0.436$$

$$\alpha > 0.5 \rightarrow \frac{456 \cdot 0.814}{13 \cdot 0.436 - 1} = 79.52 > 26 \rightarrow \text{Es clase 2 incluso puede que clase 1}$$

**No profundizamos porque la sección en todo caso será de clase 3**

Características mecánicas de la nueva sección:

$$A = 105000 \text{ mm}^2 \quad I_z = 8.89 \cdot 10^9 \text{ mm}^4 \quad I_y = 1.36 \cdot 10^{10} \text{ mm}^4$$

$$P_{cr,z} = 327566 \text{ KN} \quad \bar{\lambda}_z = 0.337 \quad \chi = 0.9261$$

$$\sigma = \frac{-4558.26 \cdot 10^3}{105000 \cdot 0.9261} \pm \frac{2310.99 \cdot 10^6}{1.36 \cdot 10^{10}} \cdot 500 \pm \frac{6000 \cdot 10^6}{8.89 \cdot 10^9} \cdot 350$$

$$\sigma_1 = -312.13 \text{ MPa} ; \quad \sigma_2 = 274.31 \text{ MPa}$$

Tensiones debidas al cortante  $V_y$ :

$$\tau = \frac{1803.56 \cdot 10^3}{2 \cdot 650 \cdot 25} = 35.73 \text{ MPa} \quad (\text{en las almas})$$

Tensiones debidas al torsor T:

$$\tau_{almas} = \frac{T}{2 \cdot A_A \cdot e} = \frac{910.4 \cdot 10^6}{2 \cdot 975 \cdot 675 \cdot 25} = 27.67 \text{ MPa}$$

Comprobación final:

$$\sigma_{COM} = \sqrt{\sigma^2 + 3 \cdot \tau^2} = \sqrt{312.13^2 + 3 \cdot (35.73 + 27.67)^2} = 330.46 \text{ MPa} < 338 \text{ MPa}$$

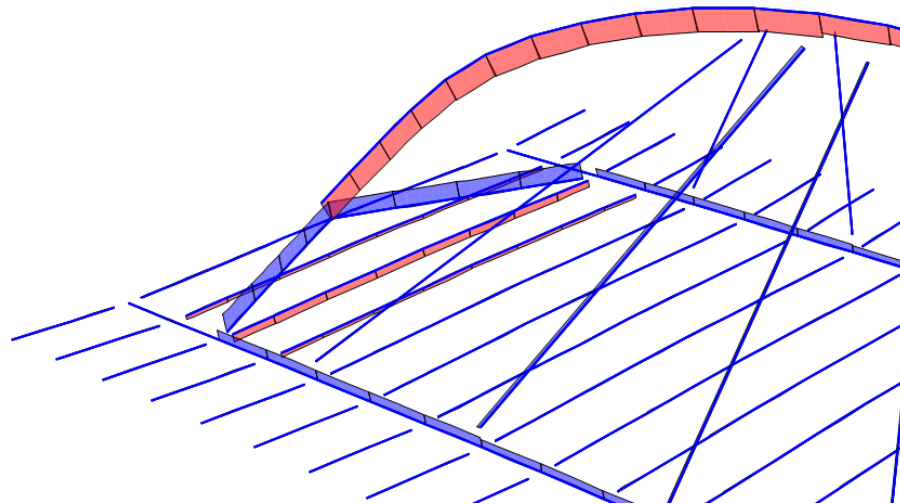
Cumple con un aprovechamiento del 97.7 %.

El resto de secciones se han comprobado siguiendo los mismos criterios. Se ha de tener en cuenta que los axiles de compresión únicamente se dan en las zonas de apoyos. El aumento de espesor en las alas según los datos obtenidos para los otros casos también son necesarios únicamente en las zonas de apoyo, donde los axiles son de compresión. De hecho, los resultados finales indican que es necesario un espesor de 35 mm en las alas del cajón, para las secciones de la zona de apoyo. El resto de las secciones mantienen el espesor constante de 25 mm.

#### ■ Vigas diagonales

Las vigas diagonales se encargan de transmitir los empujes del apoyo del arco de calle Oberlandstrasse a modo de tracciones a las vigas longitudinales, con el fin de atirantar el arco mediante el tablero. Trabajan por tanto a esfuerzos axiles de tracción.

Como consecuencia de las solicitaciones de las vigas diagonales, la viga de piso que las recoge sufre unas solicitaciones de axil de compresión principalmente, de magnitud mucho mayor a las del resto de las vigas de piso, actuando como riostra.



Esa viga de piso, comprobada del mismo modo en que el resto de vigas transversales se han comprobado anteriormente, necesita espesores de chapa de alas y alma de 2.5 cm para evitar la abolladura en la sección central. Los esfuerzos en la riostra son (compresión (-)):

Nmax (KN)	Mconc (KNm)
-5162.1	94.49

$$\sigma = \frac{-5162.1 \cdot 10^3}{28750 \cdot 0.9561} = 187.8 \text{ MPa} < 338 \text{ MPa}$$

Las vigas diagonales tienen el canto máximo en la unión con el arco y el mínimo en Los esfuerzos de las vigas diagonales son (compresión (-)):

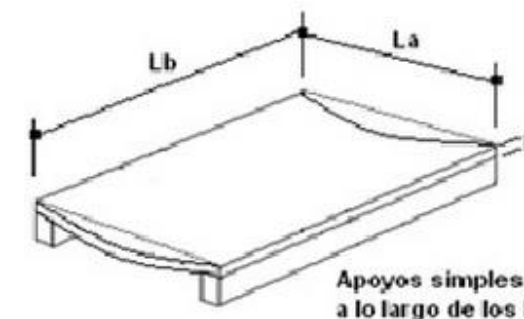
Nmax (KN)	Mconc (KNm)
7335.64	53.21

$$\sigma = \frac{7335.64 \cdot 10^3}{21496} = 312.34 \text{ MPa} < 338 \text{ MPa}$$

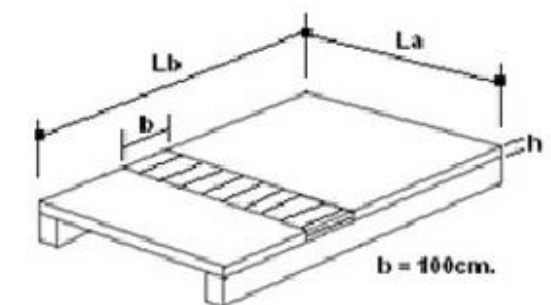
### V.1.2. Losa de hormigón armado

La losa de hormigón tiene un espesor de 20 cm más los 6 cm de canto de la chapa grecada (que se definirá más tarde). A efectos de cálculo se ha considerado la losa con 20 cm de espesor y no se ha considerado la contribución de la chapa de la greca en el dimensionamiento del armado de la losa.

Las losas armadas en una dirección se caracterizan porque la relación entre las dimensiones de sus paños es mayor de dos, por lo que el elemento representa una curvatura de deflexión más marcada en una dirección como se aprecia en la figura siguiente. El refuerzo principal se distribuye paralelo a la dirección donde se presenta la mayor curvatura. Aunque la losa se coloca sobre una chapa grecada, no se tiene en cuenta su contribución en el cálculo, ni el aumento de canto que le supone a la losa.



1.2.a Forma deflectada de una losa en una dirección cargada uniformemente



1.2.b Principio básico de la franja unitaria para el diseño por flexión

La losa se dimensionará como una viga biapoyada cuyo ancho es 1m, su espesor son 0.2 m y la distancia entre apoyos son 2.5 m (distancia real entre vigas transversales). Para evitar que los elevados esfuerzos producidos en arranques de arco afecten a la losa ésta se separa de los mismos mediante unas juntas.

En primer lugar mediante el modelo de SAP 2000 se obtienen los esfuerzos en la losa en Estado Límite Último y los Estados Límites de Servicio quasi-permanente y característico, que nos producen las solicitaciones que tenemos sobre el puente.

Se ha de tener en cuenta que en el modelo de análisis las cargas se han introducido sobre las vigas de piso en lugar de sobre la losa, de manera que para considerar los esfuerzos de flexión y cortante que se producen al tener las cargas encima de la losa y en una posición entre dos vigas de piso, se ha realizado un pequeño modelo de la losa en el SAP.

Se obtiene el máximo axil de tracción y sus concomitantes, el máximo axil de compresión y sus concomitantes, el máximo flector positivo y sus concomitantes y el mínimo flector y sus concomitantes.

Combinación	Máximo axil de tracción	Flector concomitante
ELU	-1582.5	-51.16
ELSqp	-1111.7	-30.077
ELS caract	-1308.2	-41.23



Combinación	Máximo axil de compresión	Flector concomitante
ELU	1102.15	-41.24
ELSqp	-842.72	-24.17
ELScaract	-953.47	-33.95

Combinación	Axil concomitante	Máximo flector positivo
ELU	-1127.23	114.2
ELSqp	-835.20	54.55
ELScaract	-719.73	73.2

Combinación	Axil concomitante	Máximo flector negativo
ELU	-203.61	-78.5
ELSqp	-45.23	-57.91
ELScaract	-46.06	-65.33

Las zonas en las que encontramos los esfuerzos más desfavorables en ELU coinciden con aquellas en las que son más desfavorables en ELSqp y ELS carac. Se procede a dimensionar en ELU estas 4 secciones para después armar la losa tanto superior como inferiormente con la cuantía más desfavorable.

- Dimensionamiento en ELU para la sección de mayor axil de tracción:

Los esfuerzos para los que se dimensiona son los anteriormente mostrados: N=-1582.5KN ; M=-66.16 KN/m. En la parte superior de la losa se dispondrán barras de 16 mm (As'), en la parte inferior barras de 25 mm (As). Puesto que la sección tiene curvatura negativa se girará la sección y se dimensionará como si fuese positiva cambiando al final las armaduras de posición.

*Recubrimiento:*

Par un ambiente XC2, (húmedo, en contacto habitual con agua. Para un ambiente XC2, vida útil de 100 años, fck de 30 MPa, diámetro de armadura de 25 mm y nivel de control *in situ intenso*, el recubrimiento nominal es de 30 mm.

$$X_{lim} \frac{d}{1 + \frac{f_{yd}}{700}} = \frac{0.16}{1 + \frac{434.78}{700}} = 0.099$$

$$M1(-\infty) = 0$$

$$M1c(x_{lim}) = f_{cd} \cdot 0.8 \cdot X_{lim} \cdot b \cdot (d - 0.4 \cdot X_{lim})$$

$$M1c(x_{lim}) = 20 \cdot 10^3 \cdot 0.8 \cdot 0.099 \cdot 1 \cdot (0.16 - 0.4 \cdot 0.099) = 190.32 \text{ KN} \cdot \text{m}$$

$$M2c(x_{lim}) = f_{cd} \cdot 0.8 \cdot X_{lim} \cdot b \cdot (d' - 0.4 \cdot X_{lim})$$

$$M2c(x_{lim}) = 20 \cdot 10^3 \cdot 0.8 \cdot 0.099 \cdot 1 \cdot (0.038 - 0.4 \cdot 0.099) = -2.33 \text{ KN} \cdot \text{m}$$

$$M2c(\infty) = f_{cd} \cdot h \cdot b \cdot \left(d' - \frac{h}{2}\right) = 20 \cdot 10^3 \cdot 0.2 \cdot 1 \cdot \left(0.038 - \frac{0.2}{2}\right) = -248 \text{ KN} \cdot \text{m}$$

$$M1Ed = M_d + N_d \cdot \left(d - \frac{h}{2}\right) = 51.18 - 1582.5 \cdot (0.16 - 0.1) = -43.59 \text{ KN} \cdot \text{m}$$

$$M2Ed = M_d + N_d \cdot \left(d' - \frac{h}{2}\right) = 51.18 - 1582.5 \cdot (0.038 - 0.1) = 139.07 \text{ KN} \cdot \text{m}$$

Como podemos observar, la sección pertenece a la zona B y por tanto:

$$As' = - \frac{M1Ed}{f_{yd} \cdot (d - d')} = - \frac{-43.59}{434.78 \cdot 1000 \cdot (0.016 - 0.038')} = 8.39 \cdot 10^{-4} \text{ m}^2$$

$$As = \frac{M2Ed}{f_{yd} \cdot (d - d')} = \frac{139.07}{434.78 \cdot 1000 \cdot (0.016 - 0.038')} = 2.61 \cdot 10^{-3} \text{ m}^2$$

Como se ha indicado anteriormente la sección se había girado por tanto, la disposición real del armado es: As (inferior)= $8.39 \cdot 10^{-4} \text{ m}^2$  y As' (superior)= $2.61 \cdot 10^{-3} \text{ m}^2$

Una vez justificado un cálculo el resto se obtienen a partir de un Excel que nos permite obtener el armado necesario para el resto de casos:

- Dimensionamiento en ELU para la sección de mayor axil de compresión.  
Los esfuerzos para los que se dimensiona son: N= 1102.15 KN; M=-41.24 KN·m  
As =0 y As'=0
- Dimensionamiento en ELU para la sección de máximo flector positivo.  
Los esfuerzos para los que se dimensiona son: N=-1127.23 KN; M=114.2 KN·m  
As (inferior)= $3.35 \cdot 10^{-3} \text{ m}^2$  y As' (superior)=0
- Dimensionamiento en ELU para la sección de máximo flector negativo.  
Los esfuerzos para los que se dimensiona son: N=-203.61 KN; M=-78.5 KN·m  
As (inferior)=0 y As' (superior)= $1.47 \cdot 10^{-3} \text{ m}^2$

*Armaduras mínimas:*

- Armadura mínima para rotura frágil:

$$A_{s,min} = \frac{f_{ctm,fl} \cdot b \cdot h}{4.8 \cdot f_{yd}}$$

$$f_{ctm} = 0.3 \cdot f_{ck}^{2/3} = 2.89 \text{ MPa}$$



$$f_{ctm,fl} = \max\left\{\left(1.6 - \frac{h}{100}\right) \cdot f_{ctm}; f_{ctm}\right\} = \max\{4.05, 2.89\} = 4.05 \text{ MPa}$$

$$A_{smin} = 3.89 \cdot 10^{-4} \text{ m}^2/\text{m}$$

- Armadura longitudinal mínima geométrica:

$$Acero f_y = 500 \text{ N/mm}^2 \rightarrow A_{s,min} = 0.0018 \cdot 0.2 \cdot 1 = 3.6 \cdot 10^{-4} \text{ m}^2/\text{m}$$

- Área longitudinal máxima de tracción o de compresión:

$$A_{s,max} = 0.04 \cdot A_c = 8 \cdot 10^{-3}$$

- Armadura longitudinal mínima para control de fisuración:

$$A_{s,min} \cdot \sigma_s = k_c \cdot k \cdot f_{ct,eff} \cdot A_{ct}$$

$$k_1 = \frac{2}{3 \cdot \max(h; 1)} = 2/3$$

$$k_c = 0.4 \cdot \left[1 - \frac{\frac{Ned}{b \cdot h}}{\max(h; 1) \cdot k_1 \cdot f_{ct,eff}}\right] \leq 1 = 0.4 \cdot \left[1 - \frac{\frac{-1308.2}{0.2 \cdot 1}}{1 \cdot \frac{2}{3} \cdot 2.89 \cdot 1000}\right] = 1.76 \leq 1 = 1$$

$$1 \leq k = 1 - (h - 300) \cdot 7 \cdot 10^{-4} \geq 0.65 \rightarrow k = 1$$

Para obtener el área de hormigón a tracción ( $A_{ct}$ ) es necesario calcular la profundidad de FN, es decir, aquel punto en el que las tensiones y deformaciones son nulas.

Utilizando la siguiente expresión obtenemos la profundidad a la se encuentra la fibra neutra:

$$\frac{M}{N} = \frac{Ie(x) - Se(x) \cdot (v - x)}{Se(x) - Ae(x) \cdot (v - x)}$$

Donde:

$M \equiv$  momento flector máximo

$N \equiv$  axil concomitante

$v \equiv$  distancia del centro de referencia de esfuerzos al borde más comprimido

$x \equiv$  profundidad de la fibra neutra

$Ae(x) \equiv$  área de la sección colaborante en función de  $x$

$Se(x) \equiv$  momento estático de la sección colaborante en función de  $x$

$Ie(x) \equiv$  momento de inercia de la sección colaborante en función de  $x$

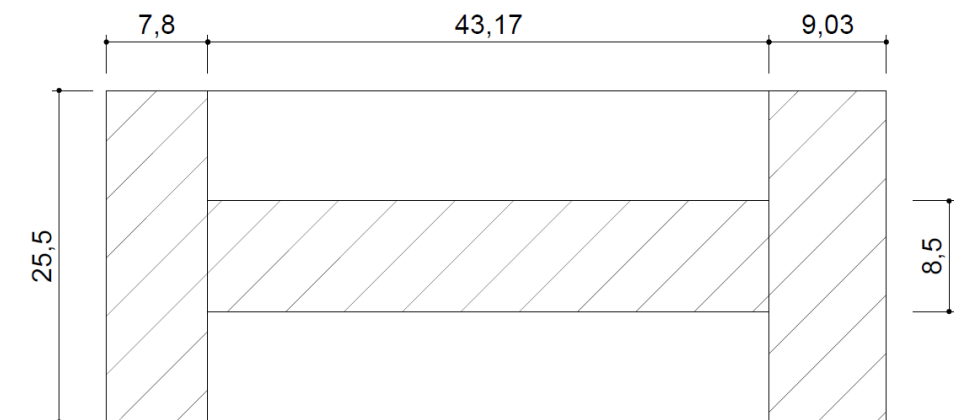
Operando se obtiene la menor  $x$  de profundidad de la fibra neutra (y por tanto mayor área  $a$  de hormigón traccionada) es  $x=0.0804$  m.

Usamos esa profundidad de la fibra neutra para sacar la armadura mínima. Para barras de  $\Phi 25$  mm limitamos la tensión a 200 MPa (impuesta por la tabla 7.2N del EC-2).

$$A_{s,min} = \frac{K_c \cdot K \cdot f_{ct,eff} \cdot A_{ct}}{\sigma_s} = \frac{1 \cdot 0.65 \cdot 2.89 \cdot 0.1196}{200} = 0.001123 \text{ m}^2$$

El armado definitivo que se decide colocar consiste en 13 $\Phi 16$  por metro como armadura superior y 10 $\Phi 25$  por metro como armadura inferior en la dirección longitudinal. En la dirección transversal se colocará el 20% de la longitudinal, pero al obtener esta cuantía de armado las separaciones entre barras eran superiores a las máximas. Por tanto, para cumplir con estas separaciones se colocarán, tanto en la parte superior como inferior de la losa 5 $\Phi 16$ .

La armadura de cortante necesaria para resistir los esfuerzos aplicados son c12 $\Phi/20$  (2 redondos del 12 cada 20) colocados en todo el ancho y largo de los carriles incluyendo la banda central bajo el arco que separa los dos carriles debido a que el cortante resistido debe ser aquel que nos produce el carro durante su desplazamiento. En una franja de 7.8mx25.5m en el lado de Oberlanstrasse y otra de 9.03mx25.5m en el lado del parque de Tempelhof.



#### Longitudes de anclaje y solape

Todas las barras se encuentran en posición de buena adherencia. Debajo de los 0.2 metros de espesor se coloca la chapa grecada, y las barras de armado se colocan entre las grecas, de manera que en total el espesor de la losa es de 0.26 metros y así se está del lado de la seguridad.

La chapa grecada escogida es el perfil: HA – 60/200 (4 grecas).

Todas las barras que se encuentren a una  $z=250\text{mm}$  se encuentra en posición de buena adherencia. Todas las barras de la losa se encuentran por debajo de esa posición.

$$Lb = \frac{\Phi f_{yd}}{4 f_{bd}}$$

$$f_{bd} = 2.25 \cdot \eta_1 \cdot \eta_2 \cdot f_{ctd}; f_{ctd} = 0.30 \cdot 30^{2/3}$$

$$Lb, r_{qd} = l_b \cdot \frac{A_{s, nec}}{A_{s, real}}$$

$$l_o = 1.5 \cdot l_{b, r_{qd}}$$

Φ16:

$$\frac{A_{s, nec}}{A_{s, real}} = 1$$

$$Lb = 0.57\text{m}$$

$$f_{bd} = 3.04\text{MPa}; f_{ctd} = 1.35\text{MPa}$$

$$Lb, r_{qd} = 0.57\text{m}$$

$$L_{dispuesta} = l_{b, r_{qd}} + d = 0.57 + 0.226 = 0.8\text{m}$$

$$l_o = 1.5 \cdot 0.57 = 0.9\text{m}$$

Según lo descrito en el punto 8.7.2 (3). La disposición del empalme por solape de barras debería ser conforme con la figura 8.7:

- La distancia libre entre barras solapadas no debería ser mayor que  $4\phi$  o 50 mm, en caso contrario la longitud de solape debería aumentarse en una longitud igual a la distancia libre donde sea mayor que  $4\phi$  o 50 mm;
- La distancia longitudinal entre dos solapes contiguos no debería ser menor que 0,3 veces la longitud de solape,  $l_o$ ;
- En el caso de solapes adyacentes, la distancia libre entre barras contiguas no debería ser menor que  $2\phi$  o 20 mm.

Si se cumplen las disposiciones del punto anterior, el porcentaje admisible de barras solapadas a tracción puede ser del 100% donde todas las barras formen una sola capa. Si las barras se encuentran en varias capas, el porcentaje se debería reducir al 50%.

Todas las barras en compresión y la armadura secundaria (reparto) pueden montarse en una sección.

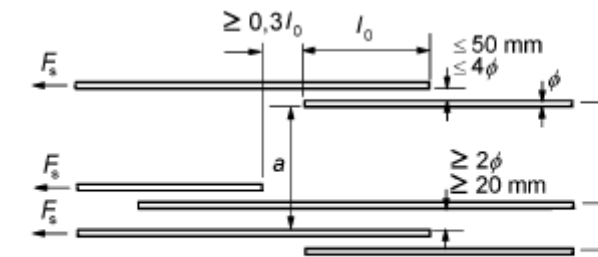


Figura 8.7 – Solapes adyacentes

La separación en caso de solapes adyacentes no debería ser menor que  $2\phi$  o 20mm, este requisito no se cumple en la losa, por este motivo, las barras superiores que van en la dirección principal se solaparán en dos secciones diferentes y en cada una de estas secciones se solaparán 6 y 7 barras de forma que sea fácilmente construible y cumpla con las disposiciones anteriormente descritas. Las barras, que van en las dirección secundaria, tanto superior como inferior, se solaparán el 100% en la misma sección.

Φ25:

$$\frac{A_{s, nec}}{A_{s, real}} = 1$$

$$Lb = 0.893\text{m}$$

$$f_{bd} = 3.04\text{MPa}; f_{ctd} = 1.35\text{MPa}$$

$$Lb, r_{qd} = 0.893\text{m}$$

$$L_{dispuesta} = l_{b, r_{qd}} + d = 0.893 + 0.226 = 1.12\text{m}$$

$$l_o = 1.5 \cdot 0.893 = 1.35\text{m}$$

Como en el caso anterior, la separación exigida por la norma en caso de solapes adyacentes no se cumple, así pues, las barras inferiores que van en la dirección principal se solaparán en dos secciones diferentes y en cada una de estas secciones se solaparán 5 barras para cumplir con lo dispuesto por la norma.

#### Diámetros de doblado:

Como se indica en el artículo 8.3 de la norma los diámetros de doblado normalizados para la realización de anclajes mediante barra doblada son los siguientes:

$$\Phi 16: 12 \cdot \phi = 192\text{mm}$$

$$\Phi 25: 12 \cdot \phi = 300\text{mm}$$

## V.2. Arco

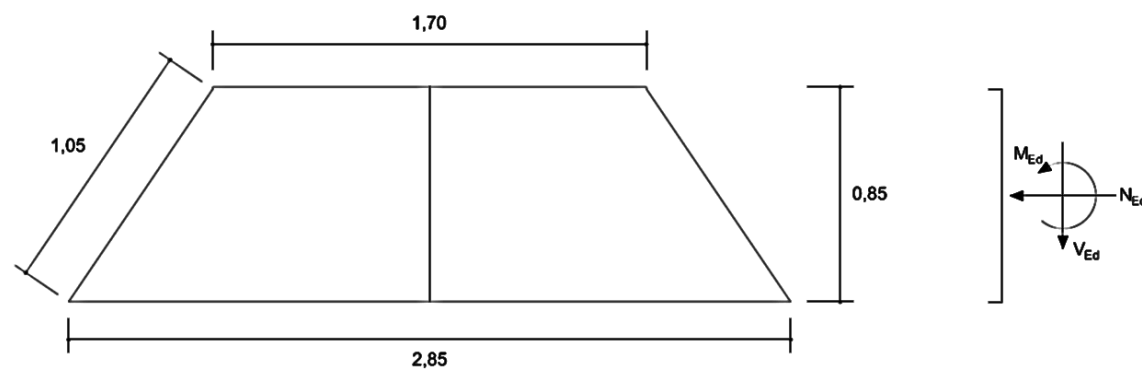
El arco es un elemento mixto formado por un arco metálico de acero con un recubrimiento de hormigón armado colaborante de 0.2 metros de espesor mínimo.

### V.2.1. Arco metálico

El arco metálico está formado por chapas armadas, formando secciones que varían de forma, canto y ancho. Durante el proceso constructivo la parte central del arco ha de soportar casi todo el peso del puente: peso propio del tablero metálico, peso de la losa de hormigón, peso del hormigón del arco que aún no ha endurecido, el peso de los encofrados del arco, etc.

Obtenemos el espesor de chapa necesario para resistir dichos esfuerzos dimensionando la sección de la clave del arco, ya que es una de las más solicitadas. Los esfuerzos se obtienen directamente del modelo de análisis que simula las fases del proceso constructivo.

La sección tiene las siguientes dimensiones:



Sometida a los siguientes esfuerzos (compresión (-)):

N (kN)	V (kN)	M (kNm)
-11500	1260	13300

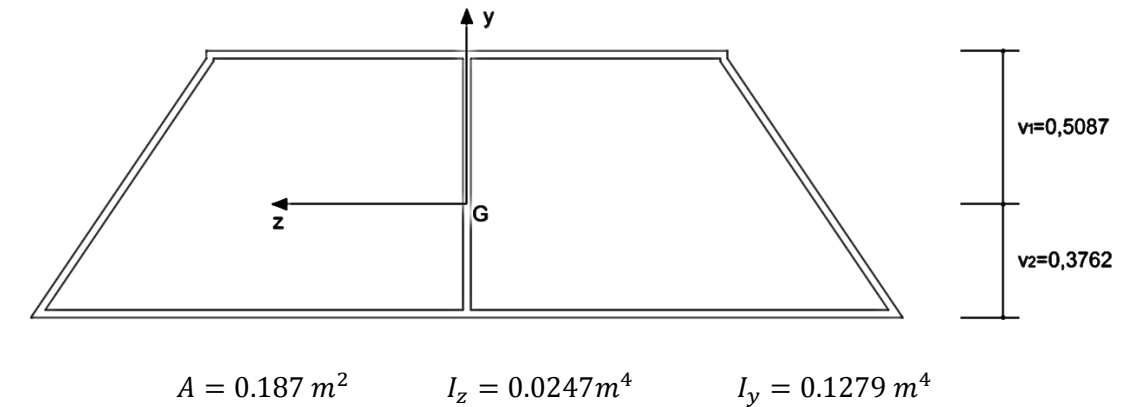
#### Clase de la sección

Para estos esfuerzos el ala superior estará comprimida. Obtenemos el espesor necesario para que, al menos, el ala sea clase 3 y no abolle.

$$\frac{c}{t} = \frac{170/2}{t} \leq 42 \cdot \varepsilon = 34.2 \rightarrow t \geq \frac{170/2}{34.2} = 2.485 \text{ cm}$$

Comprobamos el resto de la sección con espesor de 2.5 cm.

#### Características mecánicas:



#### Distribución de tensiones normales (compresión (-)):

$$\sigma_1 = \frac{-11500 \cdot 10^3}{0.187 \cdot 10^6} + \frac{-13300 \cdot 10^6}{0.0247 \cdot 10^{12}} \cdot 506.7 = -329.41 \text{ MPa}$$

$$\sigma_2 = \frac{-11500 \cdot 10^3}{0.187 \cdot 10^6} + \frac{13300 \cdot 10^6}{0.0247 \cdot 10^{12}} \cdot 376.2 = 133.67 \text{ MPa}$$

Ala superior a compresión: Clase 3

Ala inferior a tracción: Clase 1

Almas flexocomprimidas, suponemos Clase 1 o 2

$$N = f_{yd} \cdot A_1(x) - f_{yd} \cdot A_2(x) \rightarrow [A_2(x) = A - A_1(x)]$$

$$N = f_{yd} \cdot A_1(x) - f_{yd} \cdot A \rightarrow [f_{yd} \cdot A = N_{pl} = 63089 \text{ kN}]$$

$$11500 + 63089 = 2 \cdot 338 \cdot 10^{-3} \cdot (1700 \cdot 25 + 2 \cdot 25 \cdot \frac{x}{\cos 34} + 25 \cdot x)$$

$$x = 797.7 \text{ mm}$$

$$\alpha = \frac{797.7}{850} = 0.9276 > 0.5$$

Almas inclinadas:

$$\frac{c}{t} = 41.2 > \frac{456 \cdot 0.814}{13 \cdot 0.9276 - 1} = 33.56 \rightarrow \text{No es clase 2}$$



$$\Psi = \frac{\sigma_2}{\sigma_1} = -\frac{133.67}{329.41} = -0.583 > -1$$

$$\frac{c}{t} = 41.2 < \frac{42 \cdot \varepsilon}{0.67 + 0.33 \cdot \Psi} = 71.58 \rightarrow \text{Es clase 3}$$

Alma vertical:

$$\frac{c}{t} = 34.4 > \frac{456 \cdot 0.814}{13 \cdot 0.9276 - 1} = 33.56 \rightarrow \text{No es clase 2}$$

$$\frac{c}{t} = 34.4 < \frac{42 \cdot \varepsilon}{0.67 + 0.33 \cdot \Psi} = 71.58 \rightarrow \text{Es clase 3}$$

**La sección es clase 3**

*Abolladura por cortante en el alma*

Para almas no rigidizadas, se deberá comprobar si:

$$\frac{h_w}{t_w} > \frac{72 \cdot \varepsilon}{\eta}$$

Alma vertical:

$$34.4 \nless \frac{72 \cdot 0.814}{1.2} = 48.84 \rightarrow \text{No abolla}$$

Almas inclinadas:

$$41.2 \nless \frac{72 \cdot 0.814}{1.2} = 48.84 \rightarrow \text{No abolla}$$

*Comprobación de resistencia*

$$\sigma_{m\acute{a}x} = 329.41 \text{ MPa} < 338 \text{ MPa}$$

$$V_{Ed} = 1260 \text{ KN} \quad A_w = 2 \cdot 25 \cdot 1050 + 25 \cdot 850 = 73000 \text{ mm}^2$$

$$\tau_{Ed} \frac{V_{Ed}}{A_w} = \frac{1260 \cdot 10^3}{73000} = 17.26 \text{ MPa}$$

$$\sigma_{COM} = \sqrt{\sigma^2 + 3 \cdot \tau^2} = \sqrt{329.41^2 + 3 \cdot 17.26^2} = 330.76 \text{ MPa} < 338 \text{ MPa}$$

Cumple con un aprovechamiento de:

$$\mu = \frac{330.76}{338} = 0.979 \rightarrow 98 \%$$

### V.2.2. Arco mixto

Se ha supuesto para el funcionamiento del arco mixto, que la chapa del arco metálico funciona como armadura pasiva del arco. Sabiendo que el espesor de chapa es de 25 mm, y las dimensiones de cada una de las secciones que se pretenden analizar, se ha dimensionado la armadura suponiendo armadura de configuración dada.

A continuación se va a desarrollar el dimensionamiento de la sección de la clave (Sección 13), cuyos esfuerzos normales más desfavorables son:

ESFUERZOS NORMLES MÁS DESFAVORABLES	
Nmáx (KN)	Mconc (KNm)
21781.8	33748
Mmáx (KNm)	Nconc (KN)
34143.2	21086.41

Los resultados de las demás se resumirán con tablas.

*Armadura longitudinal*

Para el dimensionamiento se ha utilizado el programa del Departamento de Construcción *Calc-Flex* con los siguientes datos de entrada:

#### CARACTERÍSTICAS MECÁNICAS DE LA ARMADURA PASIVA

FASE 1 [Siguiente](#)


Límite elástico	f <sub>yk</sub>	355	MPa
Coefficiente de seguridad (E.L.U.)	γ <sub>s</sub>	1.15	
Tensión de rotura	f <sub>u</sub>	373	MPa
Deformación de rotura	ε <sub>u</sub>	0.01	
Módulo de elasticidad	E <sub>s</sub>	200000	MPa

## CARACTERÍSTICAS MECÁNICAS DEL HORMIGÓN

<b>FASE 1</b>		<b>Siguiente</b>
Resistencia característica	$f_{ck}$	50 MPa
Coeficiente de seguridad (E.L.U.)	$\gamma_c$	1.5
Cansancio (E.L.U.)	$c$	1
Módulo de deformación	$E_c$	37278 MPa
Resistencia a tracción	$f_{ctk}$	0 MPa
Resistencia media a tracción	$f_{ctm}$	-4.91 MPa
Curva constitutiva	E.L.S.	Sargin
	E.L.U.	Parábola-Rectángulo
	M - c	Sargin
Rama de tracción de la curva		sin resistencia a tracción

Obteniendo como resultados:

- Para el axil máximo y el momento flector concomitantes:



**Esfuerzos:**

N =  kN

M<sub>y</sub> =  mkN


M<sub>z</sub> =  mkN

**Centro de Referencia de Esfuerzos:**

y =  m

z =  m

ACEPTAR



**Solicitación de Flexión Recta**

La sección **NO RESISTE** la solicitación de cálculo

**Dimensionamiento**

☐ Dos Capas:
 

$r_{sup} =$   m

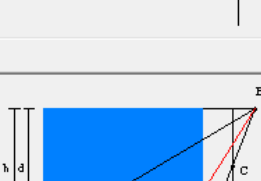
$r_{inf} =$   m

☒ Configuración dada
 

**CALCULAR**

**Envolvente**

☐ F.Recta-Eje Y (2C)
 ☐ F.Recta-Eje Z (2C)
 ☐ F.Recta-Eje Y (CD)
 ☐ F.Recta-Eje Z (CD)
 ☐ Flexión Esviada



Pivota en B

Curvatura Positiva

$A_{s_{tot}} =$   cm<sup>2</sup>

$x =$   cm

SALIR

Dimensionamiento de la armadura pasiva según la configuración dada

- Para el flector máximo y el axil concomitante:

**Esfuerzos:**

N = 21086.41 kN

M<sub>y</sub> = 34143.2 mkN

M<sub>z</sub> = 0 mkN

**Centro de Referencia de Esfuerzos:**

y = 1.79465 m

z = 0.541 m

**Solicitación de Flexión Recta**

-La sección NO RESISTE la solicitación de cálculo

**Dimensionamiento**

☐ Dos Capas:  $r_{sup} = 0.1285$  m

$r_{inf} = 0.1285$  m

☒ Configuración dada

**Envolvente**

☐ F.Recta-Eje Y (2C)

☐ F.Recta-Eje Z (2C)

☐ F.Recta-Eje Y (CD)

☐ F.Recta-Eje Z (CD)

☐ Flexión Esviada

**ACEPTAR**

**Curvatura Positiva**

$A_{s_{tot}} = 2616.717$  cm<sup>2</sup>

$x = 79.204$  cm

**SALIR**

De manera que para esta sección la profundidad de la fibra neutra se encuentra a 79.2 cm desde la cabeza, y la armadura total necesaria para resistir los esfuerzos es de 2616.72 cm<sup>2</sup>.

El espesor de chapa necesario para esa armadura es:

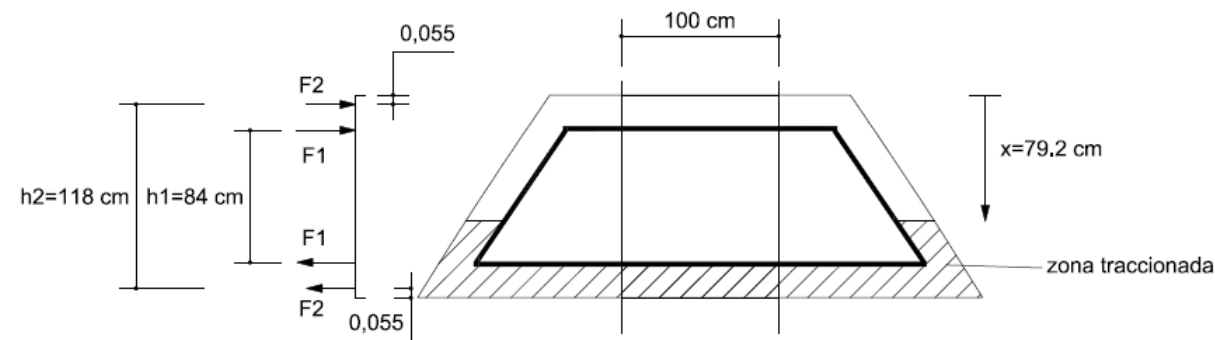
$$e = \frac{A_{s,total,necesaria}}{L_{total,chapa}} = \frac{2616.72 \text{ cm}^2}{661 \text{ cm}} = 3.96 \approx 4 \text{ cm de espesor}$$

Como el espesor de chapa dispuesto es de 2.5 cm, lo que falta de armadura para resistir los esfuerzos lo distribuiremos en barras de armadura pasiva de 500 MPa de resistencia característica y de 25 mm de diámetro.

Para una longitud de 1 metro, obtenemos el área de armadura equivalente para obtener la misma resultante de fuerzas, teniendo en cuenta el cambio de canto útil y la diferencia de límite elástico entre el acero estructural y el acero pasivo. Después se reparte del mismo modo a lo largo de todo el perímetro de la sección (al recubrimiento necesario). Con esta disposición de armado, además, evitamos la disposición de una armadura de piel para evitar el desconchamiento del hormigón.

Para un ambiente XC2, vida útil de 100 años,  $f_{ck}$  de 50 MPa, diámetro de armadura de 25 mm y nivel de control *in situ intenso*, el recubrimiento nominal es de 30 mm. Teniendo en cuenta el diámetro de la armadura de cortante, el recubrimiento mecánico de la armadura longitudinal será de 55 mm.





$$F_{1(e=4cm)} \cdot h_1 = F_{1(e=2.5cm)} \cdot h_1 + F_2 \cdot h_2$$

$$4 \cdot 100 \cdot \frac{355}{1.15} \cdot 0.84 = 2.5 \cdot 100 \cdot \frac{355}{1.15} \cdot 0.84 + A_{s,nec} \cdot \frac{500}{1.15} \cdot 1.18$$

$$A_{s,nec} = 77.37 \text{ cm}^2 \rightarrow 16\phi 25/m \text{ perimetral de la sección}$$

La distancia entre redondos es de:

$$s = \frac{100}{15} = 6.6 \text{ cm} \rightarrow \text{Las disponemos cada 6 cm}$$

La separación libre entre redondos es:

$$s_L = 6 - 2.5 = 3.5 \text{ cm} > s_{min} = 2.5 \text{ cm}$$

Armadura longitudinal mínima

- Armadura mínima de compresión:

$$A'_{s,min} = 0.00084 \cdot A_c = 0.00084 \cdot 1.6702 = 0.0013098 \text{ m}^2 \rightarrow 3\phi 25$$

Para toda la zona comprimida

- Armadura mínima de tracción para evitar la rotura rígida:

$$A_{s,min} = \frac{W_1 \cdot f_{ctm,fl}}{z \cdot f_{yd}} = \frac{0.92378 \cdot 4.07}{0.7748 \cdot 434.78} = 0.011161 \text{ m}^2 \rightarrow 23\phi 25$$

Para toda la zona traccionada.

- Armadura mínima de tracción para el control de fisuración:

Para obtener la armadura mínima para evitar el control de fisuración es necesario tener el área traccionada en las combinaciones de ELS característico y quasi-permanente:

Los esfuerzos para esta sección en esas combinaciones son:

	Mmax	Nconc
	KNm	KN
ELS qp	25227.39	-15782.68
ELS car	28796.4	18055.2

Utilizando la siguiente expresión obtenemos la profundidad a la se encuentra la fibra neutra:

$$\frac{M}{N} = \frac{Ie(x) - Se(x) \cdot (v - x)}{Se(x) - Ae(x) \cdot (v - x)}$$

Donde:

$M \equiv$  momento flector máximo

$N \equiv$  axil concomitante

$v \equiv$  distancia del centro de referencia de esfuerzos al borde más comprimido

$x \equiv$  profundidad de la fibra neutra

$Ae(x) \equiv$  área de la sección colaborante en función de  $x$

$Se(x) \equiv$  momento estático de la sección colaborante en función de  $x$

$Ie(x) \equiv$  momento de inercia de la sección colaborante en función de  $x$

Para	x (m)
ELS qp	0.56106
ELS car	0.557738

Para el ELS característico hay más área a tracción, de manera que usamos esa profundidad de la fibra neutra para sacar la armadura mínima. Para barras de  $\phi 25$  mm limitamos la tensión a 200 MPa.

$$A_{s,min} = \frac{K_c \cdot K \cdot f_{ct,eff} \cdot A_{ct}}{\sigma_s} = \frac{0.4 \cdot 0.65 \cdot 4.07 \cdot 0.9293}{200} = 0.004917 \text{ m}^2 \rightarrow 11\phi 25$$

Para toda la zona traccionada.



Las armaduras mínimas no limitan la cantidad de armado necesario en la sección. De manera que colocando un redondo cada 6 cm, en la sección completa habrá:

$$n = \frac{\text{perímetro de reparto}}{\text{separación}} = \frac{810}{6} = 135 \text{ redondos}$$

- La cantidad de armadura máxima que se puede disponer en la sección es:

$$A_{s,\text{máx}} = 0.04 \cdot A_c = 0.0668 \text{ m}^2 = 137 \text{ redondos}$$

#### Armadura de cortante

Se comprueba si es necesaria la armadura de cortante por cálculo:

$V_{Ed,\text{máx}}$ (KN)	$N_{\text{conc}}$ (KN)
1714.44	-17995

$$VRd,c = (v + k_1 \cdot \sigma_{cp}) \cdot b_w \cdot d$$

$$v = \frac{0.18}{\gamma_c} \cdot k \cdot (100 \cdot \rho_1 \cdot f_{ck})^{1/3} \leq v_{\min}$$

$$k = \sqrt{\frac{200}{d}} + 1 = \sqrt{\frac{200}{1156}} + 1 = 1.42 < 2 \rightarrow 1.42$$

$$\rho_1 = \frac{A_s}{b_w \cdot d} = \frac{330 \cdot 2.5 + 55 \cdot \pi \cdot 1.25^2}{340 \cdot 115.6} = 0.028 > 0.02 \rightarrow 0.02$$

$$v_{\min} = \frac{0.075}{\gamma_c} \cdot k^{3/2} \cdot f_{ck}^{1/2} = \frac{0.075}{1.5} \cdot 1.42^{3/2} \cdot 50^{1/2} = 0.598$$

$$v = \frac{0.18}{1.5} \cdot 1.42 \cdot (100 \cdot 0.02 \cdot 50)^{1/3} = 0.791 > v_{\min} \rightarrow 0.791$$

$$\sigma_{cp} = \frac{N_{Ed}}{A_c} = \frac{17995 \cdot 10^3}{1.6702 \cdot 10^6} = 10.77 > 0.2 \cdot \frac{f_{ck}}{1.5} = 6.66 \rightarrow 6.66$$

$$VRd,c = (0.791 + 0.15 \cdot 6.66) \cdot 3400 \cdot 1156 \cdot 10^{-3} = 7035.42 \text{ KN} > V_{Ed}$$

No hace falta armadura de cortante por cálculo

#### Armadura de cortante mínima

$$\rho_{w,\min} \rightarrow \frac{A_{sw}}{s} = \frac{b_w \cdot f_{ctm}}{7.5 \cdot f_{yk}} = \frac{3.4 \cdot 4.07}{7.5 \cdot 500} = 0.00369 \frac{\text{m}^2}{\text{m}}$$

$$\frac{36.9}{\text{sen } 56} = 44.51 \rightarrow 40 \text{ redondos en cercos de 2 ramas}$$

**cØ12/0.1**

#### Torsión

El valor del torsor máximo que ha de soportar la sección es de 306.1 KN·m. Vemos si el cajón metálico es capaz de soportar las torsiones:

$$\tau_{\max} = \frac{T_{\max}}{2 \cdot A_A \cdot e} = \frac{306.1 \cdot 10^6}{2 \cdot \frac{(2.87 + 1.76) \cdot 0.84}{2} \cdot 10^6 \cdot 25} = 3.15 \text{ MPa}$$

Las tensiones inducidas por el torsor no son de magnitud importante.

#### Resultados de todas las secciones

En la siguiente tabla se muestra la armadura necesaria para todas las secciones, en redondos de Ø25 y la separación entre barras.

A partir de esos resultados se deberá calcular las longitudes de solapo necesarias para el paso del número de redondos de una sección a otra. Ese cálculo no será objeto de este proyecto básico, y se deja su estudio para el proyecto de construcción.

Como se ha podido notar, se ha simplificado en gran medida la modelización y el cálculo del arco. Es por ello que la finalidad del dimensionamiento de la armadura pasiva del arco es, por tanto, dar un predimensionamiento a la justificación resistente, y tener un orden de magnitud de la cantidad de acero necesaria para realizar la valoración de la obra.

Sección	separacion	As nec	As mín Rot Frág	As mín Fis	As mín com	As max	Asw
1	5	270	25	11	12	566	cØ12/0.15
2	5	172	17	8	7	326	cØ12/0.15
3	5	136	15	7	6	227	cØ12/0.15
4	5	106	12	6	4	167	cØ12/0.15
5	5	77	15	7	2	83	cØ12/0.15
6	5	72	18	8	2	76	cØ12/0.15



7	5	75	11	5	2	82	cΦ12/0.15
8	5	87	12	5	2	89	cΦ12/0.15
9	5	95	13	6	2	100	cΦ12/0.15
10	5	98	11	5	2	112	cΦ12/0.15
11	5	115	18	8	2	122	cΦ12/0.15
12	6	119	21	9	3	126	cΦ12/0.1
13	6	135	23	11	3	137	cΦ12/0.1
14	6	157	29	13	3	160	cΦ12/0.1
15	6	184	35	15	4	187	cΦ12/0.1
16	6	220	30	13	5	226	cΦ12/0.1
17	6	265	31	14	5	269	cΦ12/0.1
18	5	382	37	16	9	391	cΦ12/0.1
19	5	458	43	19	12	536	cΦ12/0.1
20	5	410	38	17	10	429	cΦ12/0.1
21	5	361	46	20	7	367	cΦ12/0.1
22	5	172	25	11	8	347	cΦ12/0.1
23	5	157	21	9	7	302	cΦ12/0.1
24	5	156	18	8	6	278	cΦ12/0.1
25	5	162	18	8	7	285	cΦ12/0.1
26	5	172	19	8	7	296	cΦ12/0.1
27	5	183	19	9	7	307	cΦ12/0.1

### V.3. Péndolas

Las péndolas se encargan de transmitir el peso del tablero y las acciones variables que se generan sobre él al arco. Trabajan únicamente a esfuerzos axiales de tracción. El límite elástico es de 1000 MPa y el mayor esfuerzo axial que se da en los tirantes es  $N_{Ed}=3431.72$  KN.

El área necesaria para resistir el axil se obtiene de dividir el axil entre el límite elástico:

$$A = \frac{N_{Ed}}{f_{yd}/\gamma_{M0}} = \frac{3431.72 \cdot 10^3}{1000/1.05} = 3603.31 \text{ mm}^2$$

Del catálogo de tirantes de Freyssinet se obtiene que el tirante necesario es el H1000 4T15 (o similar), con un área de  $4948 \text{ mm}^2 > 3603.31 \text{ mm}^2$ .

### V.4. Subestructuras

#### V.4.1. Anclajes del arco y aparatos de apoyo

##### Anclajes del arco

El tirante que hay que disponer para coaccionar el giro de los arranques del arco depende del momento flector que se produce y de la separación entre dichos anclajes y el aparato de apoyo:

El anclaje estará compuesto por barras de acero de límite elástico  $f_{yk}=1800$  MPa.

$$\frac{M}{s} \cdot f_{yd} = A$$

En el Estribo 1:

$$A = \frac{86057 \cdot 10^6 / 2500}{1800 / 1.05} = 20079.97 \text{ mm}^2$$

Suponiendo la colocación de 4 barras el diámetro de cada barra será:

$$\phi = \sqrt{\frac{4 \cdot 20079.97}{4 \cdot \pi}} = 77.95 \text{ mm} \rightarrow 78 \text{ mm}$$

En el Estribo 2:

$$A = \frac{26577 \cdot 10^6 / 2500}{1800 / 1.05} = 6201.3 \text{ mm}^2$$

Suponiendo la colocación de 2 barras el diámetro de cada barra será:

$$\phi = \sqrt{\frac{4 \cdot 6201.3}{2 \cdot \pi}} = 62.83 \text{ mm} \rightarrow 78 \text{ mm para que sean iguales}$$

##### Aparatos de apoyo

Los aparatos de apoyo elegidos para que descansen el puente sobre los estribos son dos tipos:

Por un lado, se han dispuesto aparatos de apoyo de neopreno zunchado de la marca CTT Elastomeric Bearings o similares.

Por otro lado, debido a las grandes cargas transmitidas por la superestructura, se ha visto la necesidad de recurrir a los aparatos de apoyo tipo POT de la marca Tetron CD®, desarrollados por Freyssinet, que incorporan discos de elastómero confinado, o similares, entre los cuales se pueden distinguir las distintas gamas:



- TETRON CD®/ FX: Está constituido por un pot, un pistón y un disco de elastómero. El aparato De apoyo Tetron CD®/FX actúa como una articulación puntual y puede transmitir esfuerzos horizontales en cualquier dirección, ya sea por adherencia a las estructuras o por medio de dispositivos de anclaje.
- TETRON CD®/ GL: Está constituido por un aparato de apoyo fijo cuyo pistón está recubierto por un disco de politetrafluoretileno (P.T.F.E.) sobre el cual se desliza la placa superior de deslizamiento unida a la superestructura. Este diseño posibilita que el aparato se deslice libremente (es multidireccional), permitiendo desplazamientos en todas las direcciones horizontales. El aparato de apoyo Tetron CD® / GL no ha sido diseñado para transmitir esfuerzos horizontales.
- TETRON CD®/ GG: Se compone de un aparato de apoyo multidireccional provisto de una guía. Este aparato de apoyo deslizante guiado (o unidireccional) sólo permite los desplazamientos en la dirección del guiado, que se obtiene por medio de una guía central fijada en el pistón o en la placa de deslizamiento, o mediante topes laterales unidos a la placa. El aparato de apoyo Tetron CD® / GG puede transmitir esfuerzos horizontales en la dirección perpendicular al eje de guiado.

A continuación, se puede observar la disposición de los distintos aparatos de apoyo en las subestructuras, donde los apoyos 1D y 1I, se trata de neoprenos zunchados, mientras que los restantes son pots.

El proceso seguido para el dimensionamiento es el siguiente:

Para los neoprenos zunchados (apoyos 1D y 1I) se obtienen los esfuerzos horizontales, verticales así como el giro máximo. En el catálogo se escoge el neopreno que cumple tales requisitos. Las fuerzas verticales máximas son de 1500KN y las horizontales son de 60KN, mientras que el giro máximo es de 0.96 °. Para los datos anteriores, un neopreno de 300x400x19 cumplía pero por motivos estéticos se decide colocar un neopreno de 800x800x11(18+5).

Para los apoyos de elastómero reforzado:

El apoyo central del estribo de la calle Oberlandstrasse A1, tiene una reacción vertical total de compresión de  $10909.43 + 74559.65/2.5 = 40733.3$  KN ya que se tiene en cuenta para su dimensionamiento la reacción vertical en el apoyo más la fuerza que nos crea el momento. Por lo que respecta a la fuerza horizontal, ésta es de 60 KN por tanto el aparato escogido es el FX 45000-2250.

El apoyo este del estribo del lado parque de Templehof A28I, soporta un esfuerzo vertical máximo de  $9571.12 + 16803.55/2.5 = 16292.54$  KN, con un desplazamiento longitudinal total de 10 mm y transversal de 6 mm, por tanto, el aparato escogido es GL 18000-50-20.

Finalmente, el apoyo oeste del estribo del lado parque de Templehof A28D, soporta un esfuerzo vertical máximo de  $9811.1 + 21931/2.5 = 18583$  KN, con un desplazamiento longitudinal total de 10mm, siendo el transversal nulo. Teniendo en cuenta los datos anteriores, el apoyo escogido es el GG 20000-1000-50.

En el estribo del lado de la calle Oberlandstrasse se colocan los apoyos:

- **A1:** es FX 45000-2250

- **1D:** Neopreno zunchado 800x800x11(18+5)
- **1I:** Neopreno zunchado 800x800x11(18+5)

En el estribo del lado de parque Tempelhof se colocan los apoyos:

- **A28I:** GG 20000-1000-50
- **A28D:** GL 18000-50-20

#### V.4.2. Armado Estribo 1

Para el dimensionamiento de la armadura del muro y de la aleta del estribo más próximo a la calle Oberlandstrasse, se han adoptado las siguientes simplificaciones:

- Los esfuerzos transmitidos por la superestructura se han distribuido por metro a lo largo del muro principal del estribo (El muro sobre el que se han distribuido los esfuerzos se puede observar en la figura 1). Una vez obtenidos los esfuerzos totales, se ha dimensionado la armadura para el muro del estribo.
- Para tener en cuenta las cargas concentradas, se ha hecho referencia al anejo correspondiente de la EHE.
- Por último, las aletas del estribo se han calculado teniendo en cuenta la acción del empuje de tierras en el trasdós de éste, dimensionando su armadura suponiendo el elemento tal que un muro.

A continuación se pueden observar los esfuerzos más desfavorables con sus concomitantes que se han tenido en cuenta para el cálculo del armado del estribo:

Esfuerzos en ELU:

Apoyo	Esfuerzo Vertical (kN)	Cortante (kN)	Momento (kNm)
1D	1671	0	0
1I	1558	0	0
A1	12803	825	86057

Esfuerzos en ELS característico:

Apoyo	Esfuerzo Vertical (kN)	Cortante (kN)	Momento (kNm)
1D	1426	0	0
1I	1387	0	0
A1	10909	60	74559



Esfuerzos en ELS cuasi permanente:

Apoyo	Esfuerzo Vertical (kN)	Cortante (kN)	Momento (kNm)
1D		1229	0
1I		1239	0
A1		9541	98

Una vez obtenidos los valores, ya se puede pasar al cálculo de los esfuerzos en el entronque del muro.

A continuación se muestran los cálculos descritos para la obtención de estos:

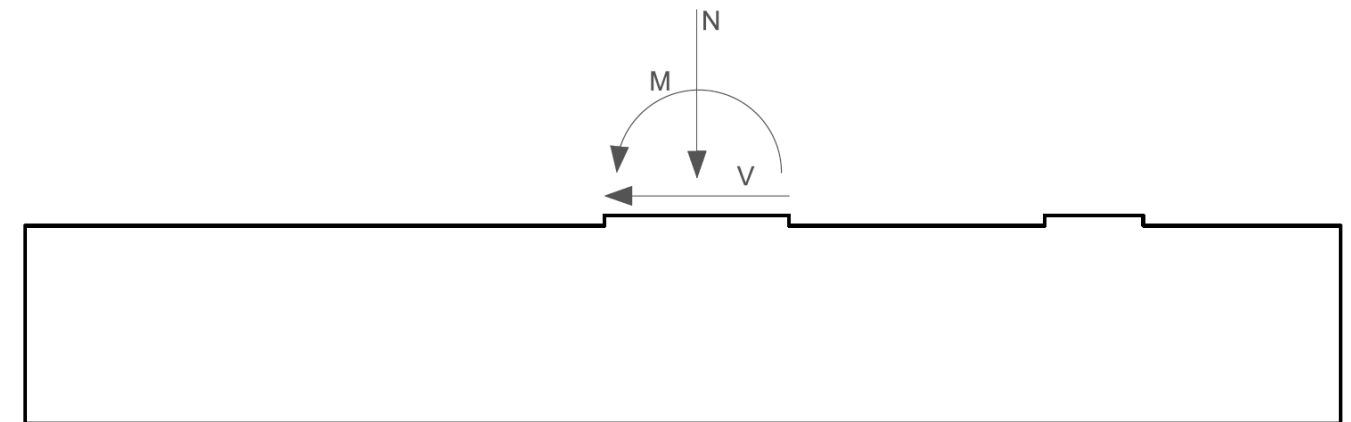


Figura 12. ESFUERZOS POSITIVOS EN EL ENTRONQUE DE LA ZAPATA

$$N = 628.7 + 6 \cdot 1.4 \cdot 1.35 \cdot 25 = 912.2 \text{ kN/m}$$

$$V = 107.89 \cdot 1.35 - 60.86 = 84.78 \text{ kN/m}$$

$$M = 3374.78 - 107.89 \cdot 1.35 \cdot 2.16 + 6 \cdot 60.86 = 3425.35 \text{ kNm/m}$$

Una vez obtenidos los esfuerzos en el entronque del muro, ya se puede obtener el armado.

Para un ambiente XC2 y una vida útil de 100 años, se obtiene un recubrimiento nominal de 35 mm.

#### Dimensionamiento de la armadura por solicitaciones normales

Los valores de cálculo utilizados son los siguientes:

- $f_{ck} = 30 \text{ MPa}$
- $\gamma_c = 1.5$
- $f_{yk} = 500 \text{ MPa}$
- $\gamma_s = 1.15$
- $b = 1 \text{ m}$
- $h = 1.4 \text{ m}$
- $E_s = 200000 \text{ MPa}$
- $E_{yd} = f_{yd}/E_s = 0.0021739$

Los valores utilizados para la ecuación constitutiva del hormigón son:

#### Armado del muro

- Armadura vertical

Para el cálculo de la armadura longitudinal el muro es necesario, en primer lugar, obtener los esfuerzos en coronación del muro. Para ello dividimos los esfuerzos anteriores entre la longitud del estribo, el cual se ha aproximado a 25.5 metros. A continuación se muestran los esfuerzos anteriores por metro lineal de muro:

Esfuerzos en ELU por metro:

Apoyo	Esfuerzo Vertical (kN)	Cortante (kN)	Momento (kNm)
1D	65.52	0	0
1I	61.1	0	0
A1	502.078	32.5	3374.78

Esfuerzos en ELS característico por metro:

Apoyo	Esfuerzo Vertical (kN)	Cortante (kN)	Momento (kNm)
1D	55.92	0	0
1I	54.39	0	0
A1	427.80	2.35	2923.88

Esfuerzos en ELS cuasi permanente por metro:

Apoyo	Esfuerzo Vertical (kN)	Cortante (kN)	Momento (kNm)
1D	48.19	0	0
1I	48.58	0	0
A1	374.15	3.84	2595.60

El empuje de tierras se ha calculado en el anejo geotécnico, obteniendo el siguiente valor, el cual está sin ponderar:

$$E = 107.89 \text{ kN/m} \quad d = 2.16 \text{ metros}$$

La distancia  $d$  esta referenciada desde el paramento superior de la zapata.



- $\lambda = 0.8$
- $\eta = 1$
- $\varepsilon_{cu,c} = 0.00175$
- $\varepsilon_{cu,f} = 0.0035$

Suponiendo para la armadura inferior un diámetro de 25 mm y para la armadura superior un diámetro de 12 mm se obtienen las disposiciones de las armaduras:

- $d = 1.3525 \text{ m}$
- $d' = 0.0410 \text{ m}$

Para hallar la armadura necesaria por solicitaciones normales, es de vital importancia acudir al diagrama de interacción flexión-axil, el cual se va a calcular con los resultados que se muestran a continuación:

Para la determinación de las zonas de dimensionamiento, se obtienen los siguientes límites:

- $X_{ab} = (0.0035 * 1.3525) / (0.0035 + 0.01) = 0.35064 \text{ m}$
- $X_{lim} = (0.0035 * 1.3525) / (0.0021739 + 0.0035) = 0.834 \text{ m}$
- $M1c(x_{lim}) = (20 * 1 * 0.8 * 0.834 * (1.3525 - ((0.8 * 0.834)/2))) * 1000 = 13599 \text{ kN}$
- $M2c(x_{lim}) = (20 * 1 * 0.8 * 0.834 * (0.0410 - ((0.8 * 0.834)/2))) * 1000 = -3907 \text{ kN}$
- $M1c(-\infty) = 0 \text{ kNm}$
- $M2c(-\infty) = 0 \text{ kNm}$
- $N_{uc} = 1000 * 20 * 1 * 1.4 = 28000 \text{ kN}$
- $M_{uc} = 0 \text{ kNm}$
- $M1c(\infty) = 1000 * 20 * 1 * 1.4 * (1.3525 - (1.4/2)) = 18270 \text{ kNm}$
- $M2c(\infty) = 1000 * 20 * 1 * 1.4 * (0.0410 - (1.4/2)) = -18452 \text{ kNm}$

Los esfuerzos aplicados en la estructura estudiada son:

- $M_{ed} = 3425 \text{ kN}$
- $N_{ed} = 912 \text{ kN}$

Esfuerzos obtenidos en el diagrama de interacción flexión-axil:

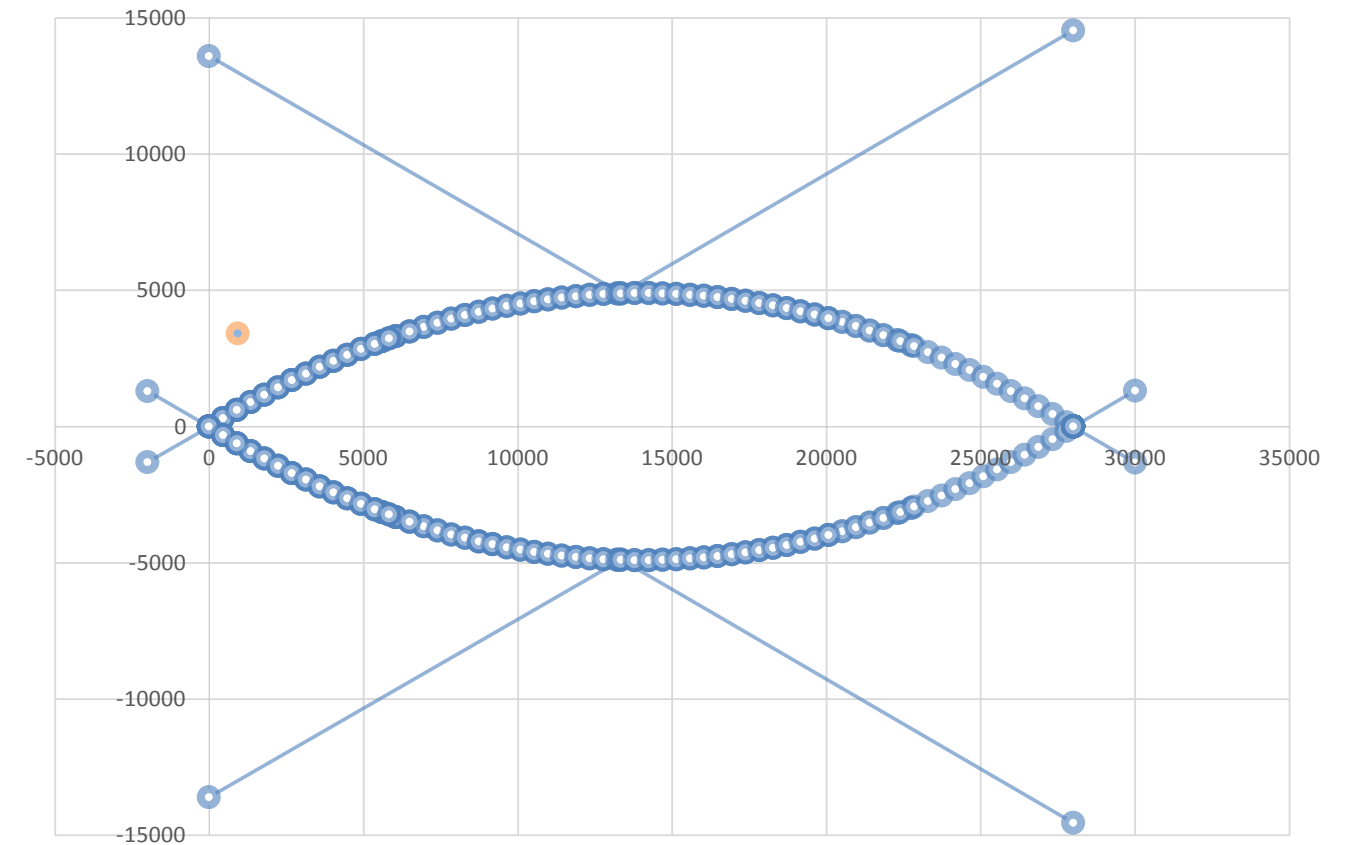
- $M1_{ed} = 3425 + 912 * (1.3525 - (1.4/2)) = 4020 \text{ kN}$
- $M2_{ed} = 3425 + 912 * (0.0410 - (1.4/2)) = 2823 \text{ kN}$

Cálculo de la curvatura del diagrama:

Dado que el momento y el axil son positivos y la estructura estudiada no dispone de elementos de pretensado, se puede afirmar que la curvatura del diagrama flexión-axil es positiva.

Con los resultados anteriores, se puede representar el diagrama de la siguiente manera:

Modelo Flexión - Axil



Tal y como se puede observar, los esfuerzos de cálculo están situados en la zona C.

Por lo tanto la armadura necesaria será:

$$X = 0.19729 \text{ m}$$

$$A_s = \frac{N_{ed} - f_{cd} * \lambda * b * x}{f_{yd}} = \frac{912 - 20 * 1000 * 0.8 * 1 * 0.19729}{-434.78 * 1000} = 0.005162 \text{ m}^2$$

$$A_{s'} = 0 \text{ m}^2$$

Una vez calculada la armadura necesaria por esfuerzos, deben comprobarse las armaduras mínimas especificadas en la norma. A continuación se puede observar el cálculo realizado para su obtención:

- Armadura longitudinal mínima de tracción para control de la fisuración



Para la obtención de la armadura anteriormente dicha deben calcularse los siguientes datos:

- $\sigma_c = 891 / (1.4 * 1) = 636.42 \text{ KPa}$
- $k_1 = 1.5$
- $\sigma_s = 200 \text{ MPa}$
- $f_{ctm} = 0.3 * (30)^{2/3} = 2.8964 \text{ MPa}$
- $f_{ct,eff} = 2.8964 \text{ MPa}$
- $K_c = 0.4 * (1 - (636.42 / (1.4 * 1.5 * 2.8964 * 1000))) = 0.3581$
- $K = 0.65$
- $Inercia = (1/12) * 1 * (1.4)^3 = 0.22866 \text{ m}^4$
- $V = (912 * 0.22866) / (1 * 1.4 * 3425) = 0.0435 \text{ m}^2$
- $Act = 1 * 1.4 - (((1.4/2) + 0.0435) * 1) = 0.65649 \text{ m}^2$

Una vez obtenidos, la armadura mínima se calcula mediante la siguiente expresión:

$$A_{s,min} = \frac{K_c * k * f_{dct,eff} * Act}{\sigma_s} = \frac{0.3581 * 0.65 * 2.8964 * 0.65649}{200} = 0.002207 \text{ m}^2$$

- Armadura geométrica en la cara traccionada

La armadura geométrica en la cara traccionada será:

$$A_{s,min} = 0.0009 * A_c = 0.0009 * 1 * 1.4 = 0.001260 \text{ m}^2$$

- Armadura mecánica a disponer en la cara traccionada

La armadura mecánica a disponer en la cara traccionada será:

$$A_{s,min} = \frac{0.04 * A_c * f_{dc}}{f_{yd}} = \frac{0.04 * 1 * 1.4 * 20}{434.78} = 0.002576 \text{ m}^2$$

- Armadura mecánica en la cara comprimida

$$A_{s,min} = 0.3 * A_{sv,min} = 0.3 * 0.002576 = 0.0007728 \text{ m}^2$$

La separación mínima que ha de cumplir el armado es de:

$$S_{min} = \min(3 * \text{Espesor de muro}, 400 \text{ mm}) = 0.4 \text{ m}$$

Por tanto, el armado longitudinal definitivo para el muro será el siguiente:

$$A_s = 0.051624 \text{ m}^2 \rightarrow 20 \text{ redondos Diámetro} = 25 \text{ mm}$$

$$A_{s'} = 0.000773 \text{ m}^2 \rightarrow 8 \text{ redondos Diámetro} = 12 \text{ mm}$$

- Dimensionamiento de la armadura pasiva por solicitaciones tangenciales

En este apartado debe comprobarse que el muro no necesita armadura de cortante, para ello se necesitan los siguientes cálculos previos:

- $k = 1 + \sqrt{(200 / (1.3525 * 1000))} = 1.384544$
- $\rho = 0.005162 / (1 - 1.3525) = 0.003816$
- $V_{min} = 0.075 / 1.5 * (1.384544)^{3/2} * f_{ck}^{1/2} = 0.44616$
- $k_1 = 0.15$
- $\sigma_{cp} = (912 * (10)^{-3}) / 1.4 = 0.6515 \text{ MPa}$
- $bw = 1 \text{ m}$
- $V = 0.44616$
- $V_{ed} = 84.78 \text{ kN}$

El cortante que resiste la sección se calcula como:

$$V_{Rd,c} = (v + k_1 * \sigma_{cp}) * bw * d = (0.4461 + 0.15 * 0.6515) * 1 * 1000 * 1.3525 = 735.61 \text{ kN} \geq 84.78 \text{ kN}$$

#### La sección no necesita armadura de cortante

- Comprobación de fisuración por estado límite de servicio

En primer lugar se debe comprobar si la sección está o no fisurada mediante la comparación del momento de fisuración con el momento de cálculo. Para ello han de calcularse en la sección del entronque los esfuerzos tanto en la combinación característica como en la cuasi permanente.

A continuación se muestran los resultados comentados anteriormente:

Combinación característica:

$$N = 538.11 + 6 * 1.4 * 25 = 748.11 \text{ kN/m}$$

$$V = 107.89 - 4.70 = 103.18 \text{ kN/m}$$

$$M = 2923.88 - 107.89 * 2.16 + 6 * 4.70 = 2719.07 \text{ kNm/m}$$

Combinación cuasi permanente:

$$N = 470.92 + 6 * 1.4 * 25 = 680.94 \text{ kN/m}$$

$$V = 107.89 - 7.68 = 100.20 \text{ kN/m}$$

$$M = 2595.6 - 107.89 * 2.16 + 6 * 7.68 = 2408.68 \text{ kNm/m}$$



Las direcciones positivas de los esfuerzos están representados en la figura 12.

Una vez obtenidos los esfuerzos con las distintas combinaciones en el entronque del muro, ya se puede calcular si la sección fisura:

$$M_{fis} = 1104 \text{ kNm} \leq 2408 \text{ kNm}$$

Como el momento de cálculo es mayor que el momento de fisuración, la sección fisurará. El siguiente paso a realizar es calcular la  $x$  de la sección fisurada mediante la siguiente fórmula:

$$1 = \frac{N(I - S(v1 - x))}{M(S - A(v1 - x))}$$

Resolviendo la ecuación de tercer grado, se obtiene:

$$X = 0.53645 \text{ m}$$

Con la  $x$  anterior se pueden obtener los siguientes resultados:

$$A_f = 1.973 \text{ m}^2$$

$$S_f = 0.3226 \text{ m}^3$$

$$I_f = 0.09241 \text{ m}^4$$

#### Verificación de la limitación de tensiones

No es necesaria debido a que el ambiente es XC2.

#### Control de la fisuración

Para la obtención de la abertura de fisura es necesario definir ciertas características de los materiales de las barras de armado así como realizar una serie de cálculos previos, los cuales se desarrollaran a continuación:

- Duración cargas largas
- Tipo de armadura postes adherente
- Tipo de acero corrugado
- Barras de alta adherencia
- $K_t = 0.4$
- $\xi = 0.7$
- $\xi_1 = \sqrt{0.7} = 0.83666$
- $hc, eff = \min(2.5 * (1.4 - 1.3525); (1.3525 - 0.53645)/3; 1.4/3) = 0.11875 \text{ m}$

- $\rho_{p, eff} = ((20 * \pi * (25/1000)^2)/4)/(1 * 0.11875) = 0.082673$
- $\alpha_e = E_s/E_c = 200000/32836 = 6.09$
- $\sigma_{s, cal} = (6.09 * 2408 * (0.53645 - 1.3525))/0.09241 = -129.52 \text{ MPa}$
- $\xi_{sm} - \xi_{cm} = 0.0004387 \text{ m}$
- $k_1 = 0.8$
- $k_2 = 0.73$
- $c = (35/1000) = 0.0350 \text{ m}$
- $Sr, max = 3.4 * 0.0350 + 0.425 * 0.8 * 0.73 * (25/(0.082673 * 1000)) = 0.194 \text{ m}$

Con los datos anteriores ya se puede calcular la abertura de fisura, calculada mediante la siguiente expresión:

$$w_k = 0.0004387 * 1000 * 0.194 = 0.085137 \text{ mm} \leq 0.30 \text{ mm}$$

Tal y como se puede observar, cumple la abertura de fisura

- Armadura horizontal

La armadura geométrica a disponer para el control de la fisuración, efectos térmicos, deformaciones impuestas, retracción... se calcula de la siguiente manera:

$$A_{s, h min} = 0.0032 * A_c$$

Estando bloqueada el área de hormigón a 0.5 m de ancho. Como nuestro muro mide 1.4 m se utilizará el valor de 0.5 m.

$$A_{s, h min} = 0.0032 * 500 * 1000 = 1600 \text{ m}^2$$

La armadura obtenida anteriormente es la armadura horizontal que se ha de disponer por metro en los dos lados, por tanto para, un lado del muro se dispondrá solo la mitad. A continuación se puede observar la armadura horizontal dispuesta a un lado del muro:

$$\frac{1600}{2} = 800 \text{ mm} \rightarrow \text{Diámetro} = 12 \text{ mm cada } 0.13 \text{ m}$$

#### Longitudes de anclaje y solape

##### Armadura vertical de diámetro 25 mm

Para el cálculo de las longitudes de anclaje y solape es necesario realizar unos cálculos previos, tal y como indica la norma:

- $f_{ctk 0.05} = 0.7 * f_{ctm} = 0.7 * 2.9 = 2.03 \text{ MPa}$
- $f_{ctd} = (2.03/1.5) = 1.35 \text{ MPa}$
- $f_{bd} = 2.25 * \eta_1 * \eta_2 * f_{ctd} = 2.25 * 1 * 1 * 1.35 = 3.0413 \text{ MPa}$
- $L_b = (25/4) * (434.78/3.0413) = 0.8935 \text{ m}$



La longitud requerida de anclaje se calcula como:

$$L_{b,rqd} = L_b \cdot \left( A_s, \frac{nec}{s}, real \right) = 0.8935 \cdot (0.005162/0.009817) = 0.47 \text{ m}$$

La longitud requerida de solape será por tanto:

$$L_o = 1.5 \cdot 0.47 = 0.705 \text{ m}$$

*Armadura vertical de diámetro 12 mm*

Para el cálculo de las longitudes de anclaje y solape es necesario realizar unos cálculos previos, tal y como indica la norma:

- $f_{tck} 0.05 = 0.7 \cdot f_{ctm} = 0.7 \cdot 2.9 = 2.03 \text{ MPa}$
- $f_{ctd} = (2.03/1.5) = 1.35 \text{ MPa}$
- $f_{bd} = 2.25 \cdot \eta_1 \cdot \eta_2 \cdot f_{ctd} = 2.25 \cdot 1 \cdot 1 \cdot 1.35 = 3.0413 \text{ MPa}$
- $L_b = ((12/1000)/4) \cdot (434.78/3.0413) = 0.4288 \text{ m}$

La longitud requerida de anclaje se calcula como:

$$L_{b,rqd} = L_b \cdot (A_s, nec/A_s, real) = 0.4288 \cdot (0.000773/0.000905) = 0.36 \text{ m}$$

La longitud requerida de solape será por tanto:

$$L_o = 1.5 \cdot 0.47 = 0.55 \text{ m}$$

- Armadura horizontal de diámetro 12 mm

Para el cálculo de las longitudes de anclaje y solape es necesario realizar unos cálculos previos, tal y como indica la norma:

- $f_{tck} 0.05 = 0.7 \cdot f_{ctm} = 0.7 \cdot 2.9 = 2.03 \text{ MPa}$
- $f_{ctd} = (2.03/1.5) = 1.35 \text{ MPa}$
- $f_{bd} = 2.25 \cdot \eta_1 \cdot \eta_2 \cdot f_{ctd} = 2.25 \cdot 1 \cdot 1 \cdot 1.35 = 3.0413 \text{ MPa}$
- $L_b = ((12/1000)/4) \cdot (434.78/3.0413) = 0.4288 \text{ m}$

La longitud requerida de anclaje se calcula como:

$$L_{b,rqd} = L_b \cdot \left( A_s, \frac{nec}{A_s}, real \right) = 0.4288 \cdot (0.000800/0.000905) = 0.379 \text{ m}$$

La longitud requerida de solape será por tanto:

$$L_o = 1.5 \cdot 0.47 = 0.568 \text{ m}$$

#### Armado del muro de la aleta

- Armadura vertical

Para el cálculo de la armadura longitudinal del muro de la aleta es necesario obtener los esfuerzos en el entronque del muro, el cual está solicitado sólo bajo la acción del empuje pasivo del terreno. A continuación se muestran los esfuerzos en el entronque del muro:

$$N = 6 \cdot 0.75 \cdot 1.35 \cdot 25 = 151.57 \text{ kN/m}$$

$$V = 107.89 \cdot 1.35 = -145.65 \text{ kN/m}$$

$$M = -107.89 \cdot 1.35 \cdot 2.16 = -314.60 \text{ kNm/m}$$

Una vez obtenidos los esfuerzos en el entronque del muro, se obtiene la armadura vertical mediante el procedimiento desarrollado anteriormente:

$$A_s \rightarrow 8 \text{ } \emptyset 16 \text{ por metro}$$

$$A_s' \rightarrow 8 \text{ } \emptyset 12 \text{ por metro}$$

Para la obtención de la armadura anterior se han tenido en cuenta las armaduras mínimas.

#### Comprobación de fisuración para el estado límite de servicio

Esfuerzos en la sección del entronque tanto en la combinación característica como en la cuasi permanente:

Combinación característica:

$$N = 6 \cdot 0.75 \cdot 25 = 112.5 \text{ kN/m}$$

$$V = 107.89 = -107.89 \text{ kN/m}$$

$$M = -107.89 \cdot 2.16 = -233.04 \text{ kNm/m}$$

Combinación casi permanente:

$$N = 6 \cdot 0.75 \cdot 25 = 112.5 \text{ kN/m}$$

$$V = 107.89 = -107.89 \text{ kN/m}$$

$$M = -107.89 \cdot 2.16 = -233.04 \text{ kNm/m}$$

Para los esfuerzos anteriores se ha comprobado que la sección no fisura.



- Armadura horizontal

La armadura geométrica a disponer para el control de la fisuración, efectos térmicos, deformaciones impuestas, retracción es de:

$$A_{sh,min} = 800 \text{ mm}^2$$

La armadura a disponer en una cara del muro será de:

$$8 \text{ } \Phi 12 \text{ por metro}$$

**Longitudes de anclaje y solape**

Armadura vertical de diámetro 16 mm

$$L_{b,rqd} = 0.423 \text{ m}$$

$$L_o = 0.581 \text{ m}$$

Armadura vertical de diámetro 12 mm

$$L_{b,rqd} = 0.384 \text{ m}$$

$$L_o = 0.571 \text{ m}$$

Armadura horizontal de diámetro 12 mm

$$L_{b,rqd} = 0.379 \text{ m}$$

$$L_o = 0.568 \text{ m}$$

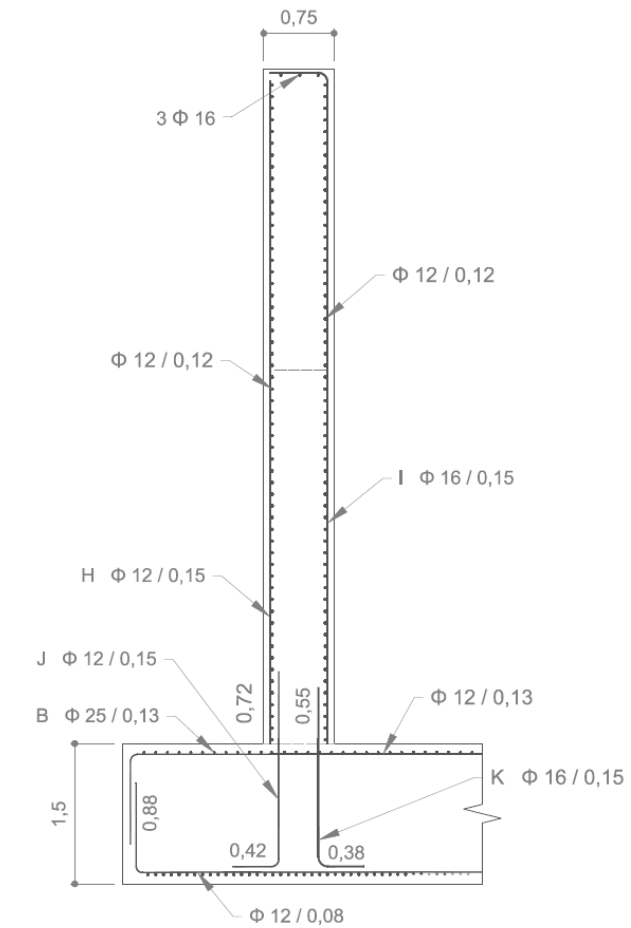


Figura 13. ARMADO DE LA ALETA TRANSVERSAL DEL ESTRIBO 1



### Armado de la zapata

#### Obtención de esfuerzos

Para el cálculo de la armadura longitudinal de la zapata es necesario obtenerse las tensiones del terreno. Para ello, en primer lugar, se calculan los esfuerzos en el centro de gravedad de la zapata. Para ello se ha considerado un empuje de 163.06 kN/m aplicado a 2.62 m desde la cota de cimentación de la zapata, obtenido a partir del anejo geotécnico.

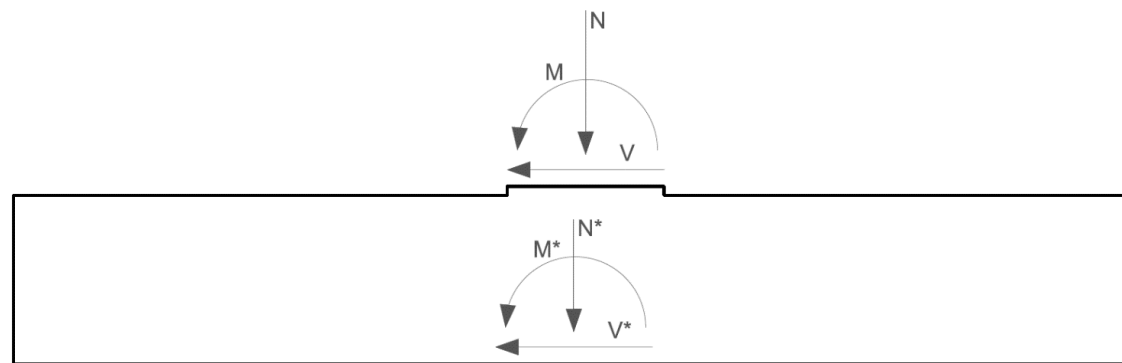


Figura 14. ESFUERZOS POSITIVOS EN EL CENTRO DE GRAVEDAD DE LA ZAPATA

#### Esfuerzos en ELU

$$N^* = 1.35 \cdot 378.75 + 1.35 \cdot 130.2 + 1.35 \cdot 44.86 + 1.35 \cdot 408 + 912.2 = 2210.65 \text{ kN/m}$$

$$V^* = 163.06 \cdot 1.35 - 60.86 = 159.26 \text{ kN/m}$$

$$M^* = 4566.28 \text{ kNm/m}$$

#### Esfuerzos en ELS cuasi permanente

$$N^* = 1642.75 \text{ kN/m}$$

$$V^* = 100.20 \text{ kN/m}$$

$$M^* = 3199.55 \text{ kNm/m}$$

#### Esfuerzos en ELS característico

$$N^* = 1709.93 \text{ kN/m}$$

$$V^* = 103.18 \text{ kN/m}$$

$$M^* = 3528.98 \text{ kNm/m}$$

#### Obtención de las tensiones del terreno

A continuación se pueden observar os distintos valores de las tensiones del terreno para cada combinación de esfuerzos:

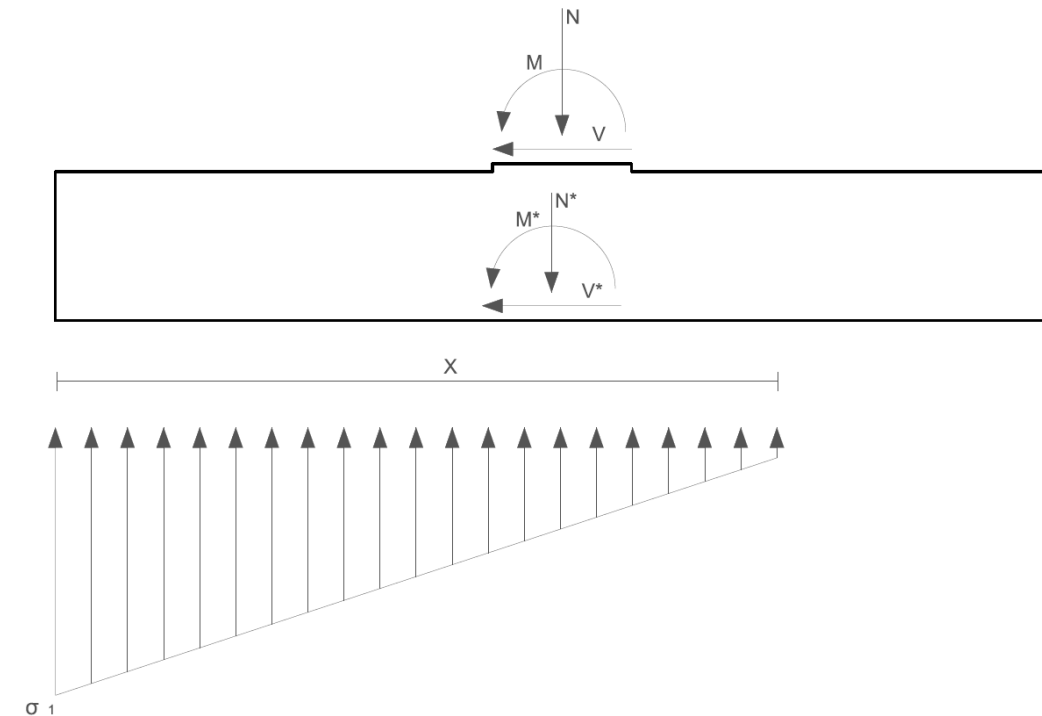


Figura 15. REPRESENTACIÓN DE LAS TENSIONES DEL TERRENO.

#### Tensiones en ELU

$$\sigma_1 = 487.45 \text{ kN/m}^2$$

$$X = 9.165 \text{ m}$$

#### Tensiones en ELS cuasi permanente

$$\sigma_1 = 350.83 \text{ kN/m}^2$$

$$X = 9.412 \text{ m}$$

#### Tensiones en ELS característico

$$\sigma_1 = 376.86 \text{ kN/m}^2$$

$$X = 9.168 \text{ m}$$



### Obtención de los esfuerzos en las secciones representativas de la zapata

Para el correcto dimensionamiento del armado de la zapata, cabe dimensionar el armado de ésta a partir de las secciones más desfavorables, las cuales se pueden observar a continuación junto con sus respectivos esfuerzos para las diferentes combinaciones.

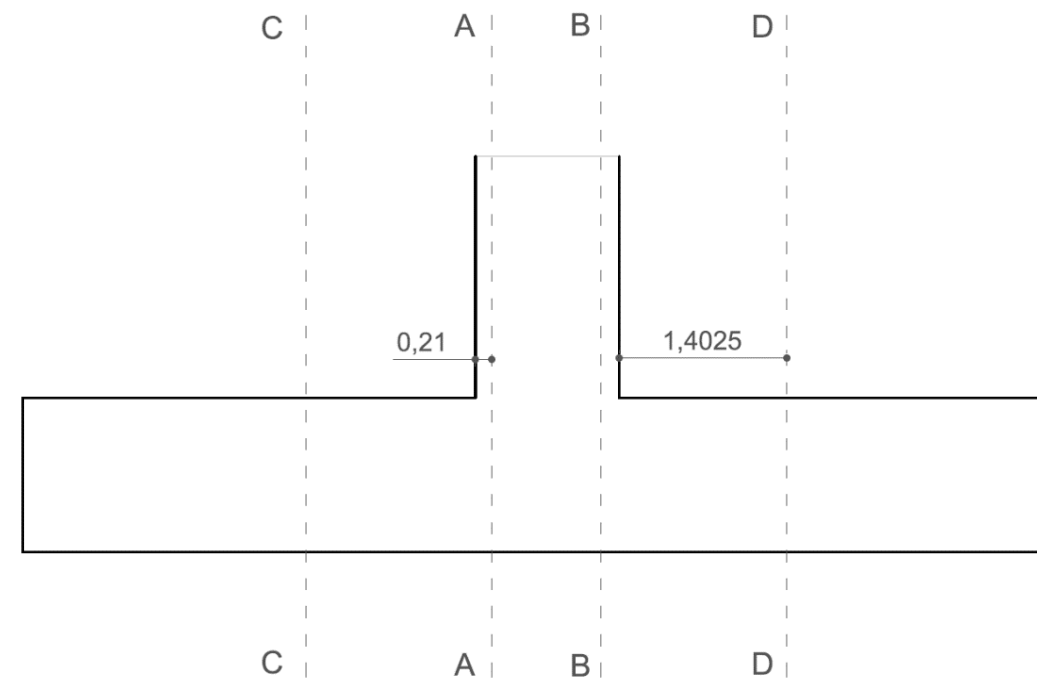


Figura 16. SECCIONES A STUDIAR.

Sección A:

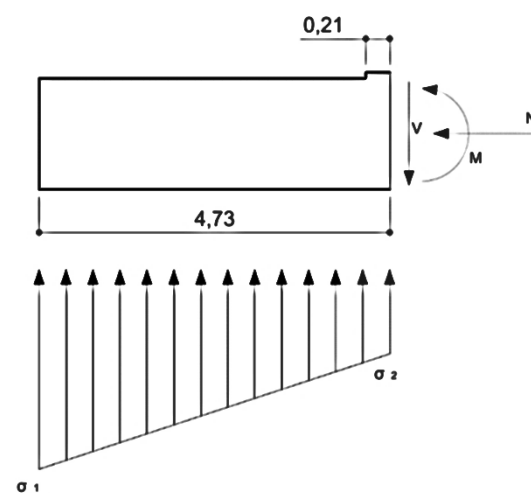


Figura 17. SECCIÓN REPRESENTADA A UNA DISTANCIA R RESPECTO AL PARAMENTO EXTERIOR DEL MURO

Esfuerzos en ELU

$$M = 2575 \text{ kNm/m}$$

$$V = 774 \text{ kN}$$

$$N = 220 \text{ kN}$$

Esfuerzos en ELS cuasi permanente

$$M = 1843 \text{ kNm/m}$$

$$V = 549 \text{ kN}$$

$$N = 163 \text{ kN}$$

Esfuerzos en ELS característico

$$M = 2026 \text{ kNm/m}$$

$$V = 624 \text{ kN}$$

$$N = 163 \text{ kN}$$

Sección B:

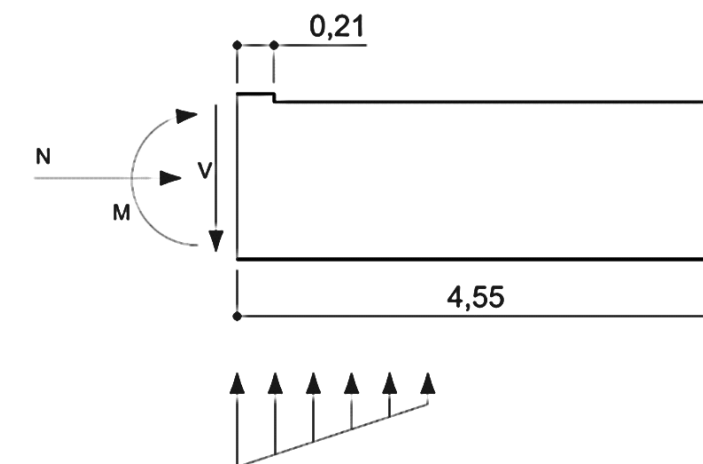


Figura 18. SECCIÓN REPRESENTADA A UNA DISTANCIA R RESPECTO AL PARAMENTO EXTERIOR DEL MURO



Esfuerzos en ELU

$$M = -616 \text{ kNm/m}$$

$$V = -107 \text{ kN}$$

$$N = 0 \text{ kN}$$

Esfuerzos en ELS cuasi permanente

$$M = -433 \text{ kNm/m}$$

$$V = -65 \text{ kN}$$

$$N = 0 \text{ kN}$$

Esfuerzos en ELS característico

$$M = -422 \text{ kNm/m}$$

$$V = -58 \text{ kN}$$

$$N = 0 \text{ kN}$$

Esfuerzos en ELU

$$M = 853 \text{ kNm/m}$$

$$V = 597 \text{ kN}$$

$$N = 0 \text{ kN}$$

Esfuerzos en ELS cuasi permanente

$$M = 604 \text{ kNm/m}$$

$$V = 413 \text{ kN}$$

$$N = 0 \text{ kN}$$

Esfuerzos en ELS característico

$$M = 680 \text{ kNm/m}$$

$$V = 477 \text{ kN}$$

$$N = 0 \text{ kN}$$

Sección C:

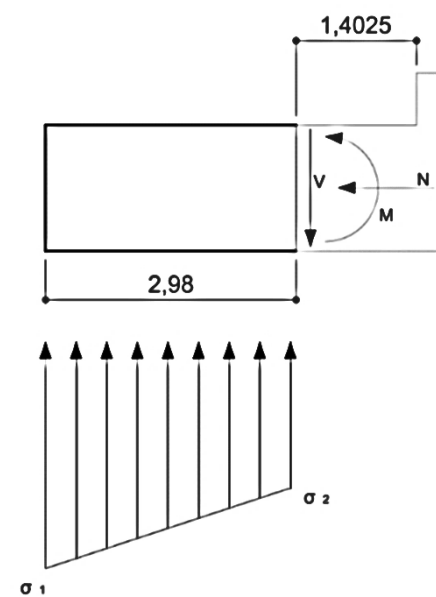


Figura 19. SECCIÓN REPRESENTADA A UNA DISTANCIA d RESPECTO AL PARAMENTO EXTERIOR DEL MURO

Sección D:

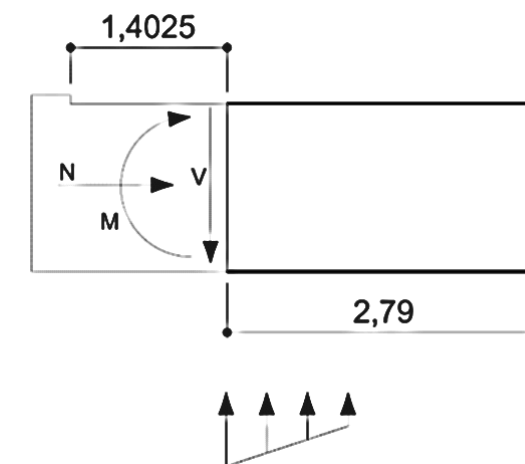


Figura 20 SECCIÓN REPRESENTADA A UNA DISTANCIA d RESPECTO AL PARAMENTO EXTERIOR DEL MURO



Esfuerzos en ELU

$$M = -301 \text{ kNm/m}$$

$$V = -138 \text{ kN}$$

$$N = 0 \text{ kN}$$

Esfuerzos en ELS cuasi permanente

$$M = -204 \text{ kNm/m}$$

$$V = -85 \text{ kN}$$

$$N = 0 \text{ kN}$$

Esfuerzos en ELS característico

$$M = -433 \text{ kNm/m}$$

$$V = -65 \text{ kN}$$

$$N = 0 \text{ kN}$$

Armado de la zapata

Siguiendo el mismo procedimiento empleado en el dimensionamiento del armado del muro, se calcula para cada sección el armado correspondiente, asegurándose de que se cumpla la abertura de fisura. De ésta manera se obtienen los siguientes armados:

Armado Longitudinal	As'	As
Sección A	Diámetro 12 Redondos: 8	Diámetro 25 Redondos: 12
Sección B	Diámetro 25 Redondos: 8	Diámetro 12 Redondos: 8

Para el armado dispuesto anteriormente, las secciones C y D, observadas en la figura 8, cumplen perfectamente.

El armado longitudinal definitivo por metro en la zapata es:

$$As' = 3927 \text{ mm}^2 \rightarrow 8 \text{ Redondos Diámetro 25}$$

$$As = 5890 \text{ mm}^2 \rightarrow 12 \text{ Redondos Diámetro 25}$$

El armado transversal por metro del muro se calcula como un 20% del longitudinal:

$$Ast' = \frac{20}{100} * 3927 = 785 \text{ mm}^2 \rightarrow 8 \text{ Redondos Diámetro 12}$$

$$Ast = \frac{20}{100} * 5890 = 1178 \text{ mm}^2 \rightarrow 12 \text{ Redondos Diámetro 12}$$

Las longitudes de anclaje son las siguientes

	Longitud de solape	Longitud de anclaje
Armadura Longitudinal As	1,32 m	0,88 m
Armadura Longitudinal As'	1,23 m	0,82 m

A continuación se puede observar la sección característica del estribo 1, la cual se puede observar junto con otros planos en el documento PLANOS:

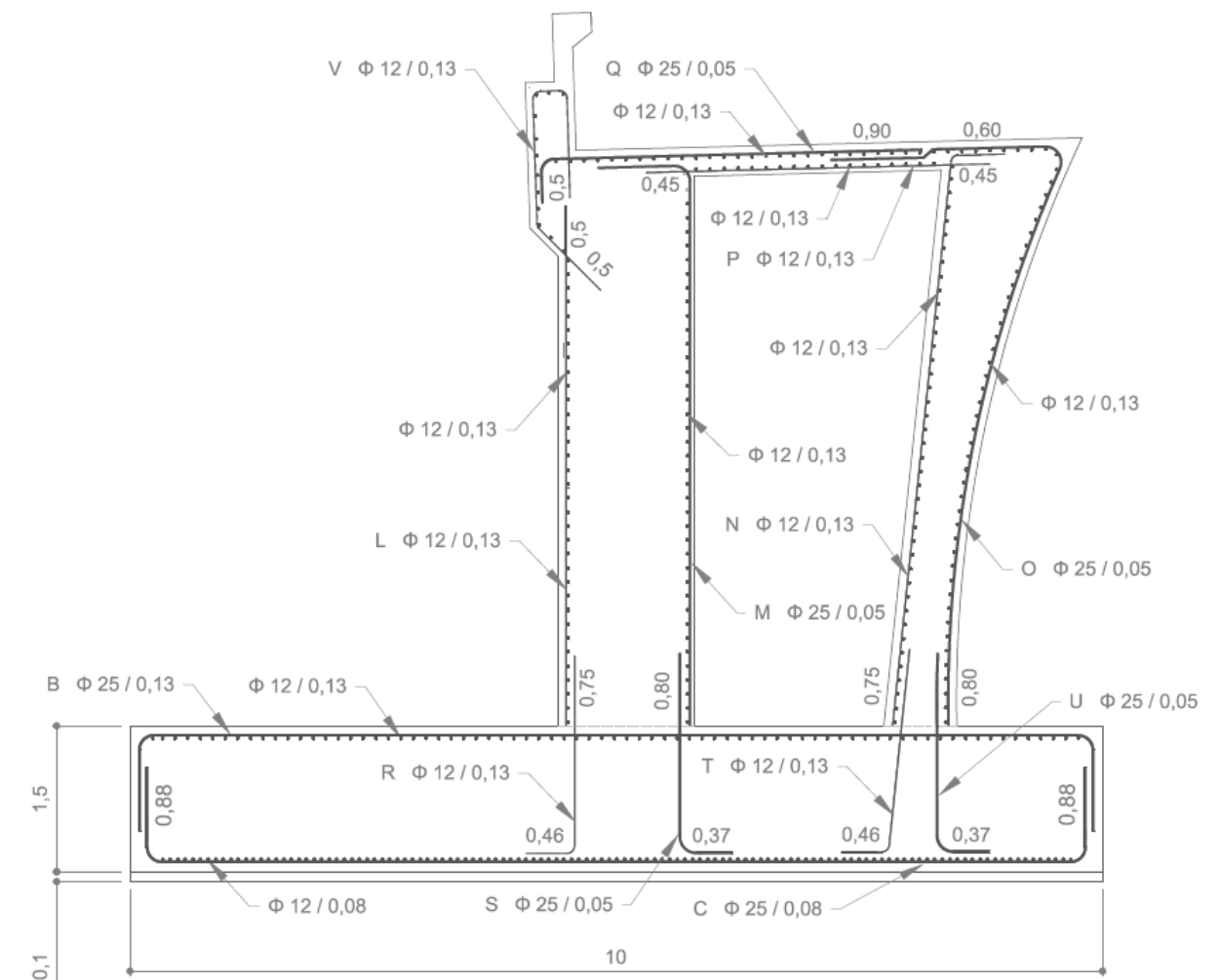


Figura 21. ARMADO DE LA SECCIÓN CARACTERÍSTICA DEL ESTRIBO 1.



### Armado del estribo por cargas concentradas

Para el dimensionamiento del armado bajo en las zonas donde se concentran las cargas transmitidas del puente al estribo, se ha recurrido a lo expuesto en el EHE 08, ya que una carga concentrada sobre un macizo de hormigón constituye una región D.

El modelo de celosía equivalente, en el caso de carga concentrada es el mostrado en la siguiente figura:

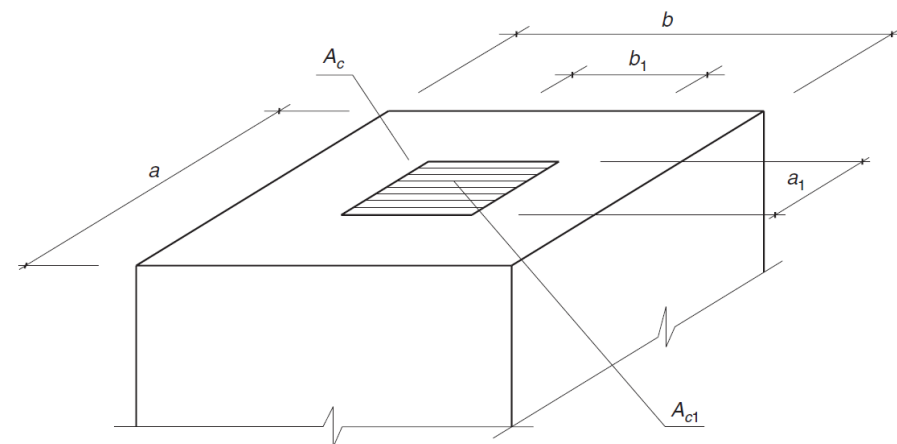


Figura 22. AREAS AFECTADA POR LAS CARGAS CONCENTRADAS.

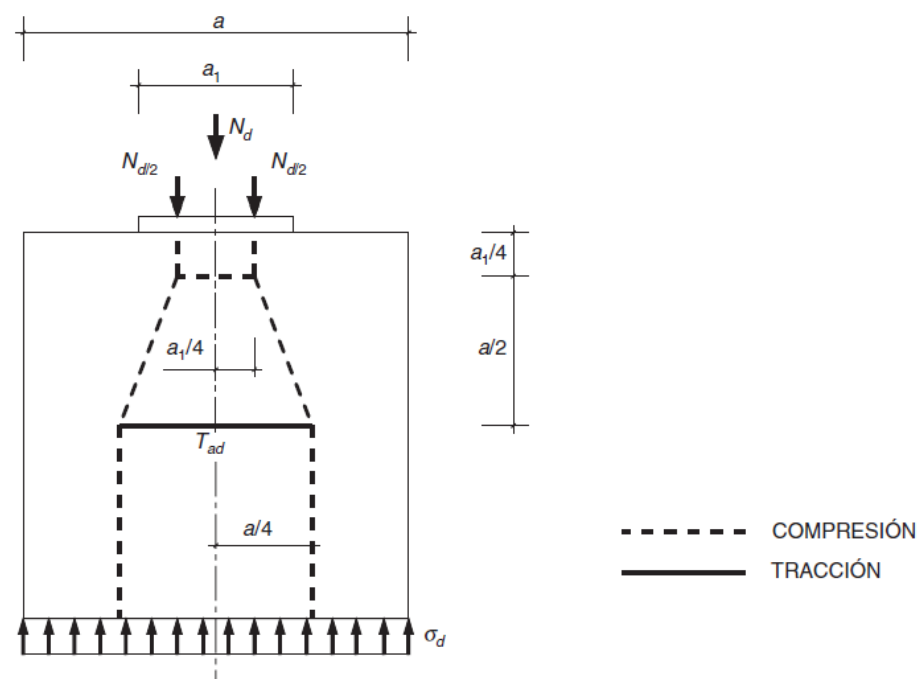


Figura 23. MODELO DE BIELAS Y TIRANTES.

A continuación se muestra una planta del puente donde se pueden observar los diferentes apoyos del puente:



Figura 24. PLANTA DE SITUACIÓN DE LOS ESFUERZOS TRANSMITIDOS A LA CIMENTACIÓN.

A continuación se muestran los esfuerzos transmitidos a la subestructura en los apoyos donde van situados los pots y los neoprenos

Esfuerzos en ELU	Reacción vertical (kN)	Momento (kNm)
1D	1671	0
A1	12803	86057
1I	1668	0

Una vez conocidos estos datos ya se puede pasar a dimensionar la armadura para cada apoyo



### Dimensionamiento de la armadura del apoyo 1D

Las características necesarias del apoyo para llevar a cabo el dimensionamiento de su armadura se describen a continuación, teniendo en cuenta la figura 13:

- Dimensión  $a = 2400 \text{ mm}$
- Dimensión pot en la dirección  $a$  ( $a_1$ ) = 295 mm
- Dimensión  $b = 1800 \text{ mm}$
- Dimensión pot en la dirección  $b$  ( $b_1$ ) = 295 mm
- Área de hormigón  $A_c = 2160000 \text{ mm}^2$
- Área del pot ( $A_{c1}$ ) = 68349 mm<sup>2</sup>

Las características del material empleado son:

- $f_{cd} = 20 \text{ MPa}$
- $f_{yk} = 400 \text{ MPa}$

Los cálculos a realizar son los siguientes:

- $N_d = 1671000 \text{ N}$
- $f_{3cd} = \sqrt{(2160000/68349) * 20} = 112.43 \text{ MPa} \leq 3.3 * f_{3cd} = 66 \text{ MPa} \rightarrow f_{3cd} = 66 \text{ MPa}$
- $N_d \leq A_{c1} * f_{3cd} \rightarrow 1671000 \leq 68349 * 66 = 4511034 \text{ N}$

Las tensiones de los tirantes del modelo se calculan de la siguiente manera:

- $T_{ad} = 0.25 * 1671000 * ((2400 - 295)/2400) = 366401 \text{ N}$
- $T_{bd} = 0.25 * 1671000 * ((1800 - 295)/1800) = 349285 \text{ N}$

De ésta manera las armaduras a disponer son las siguientes:

$$A_{sa} = \frac{366401}{400} = 916 \text{ mm}^2 \rightarrow \text{Diámetro} = 12 \text{ Redondos} = 10$$

$$A_{sb} = \frac{349258}{400} = 873 \text{ mm}^2 \rightarrow \text{Diámetro} = 12 \text{ Redondos} = 8$$

Las armaduras a disponer se dividirá en dos capas, por ello, el armado a disponer será la mitad.

A continuación se puede observar la armadura por cargas concentrada:

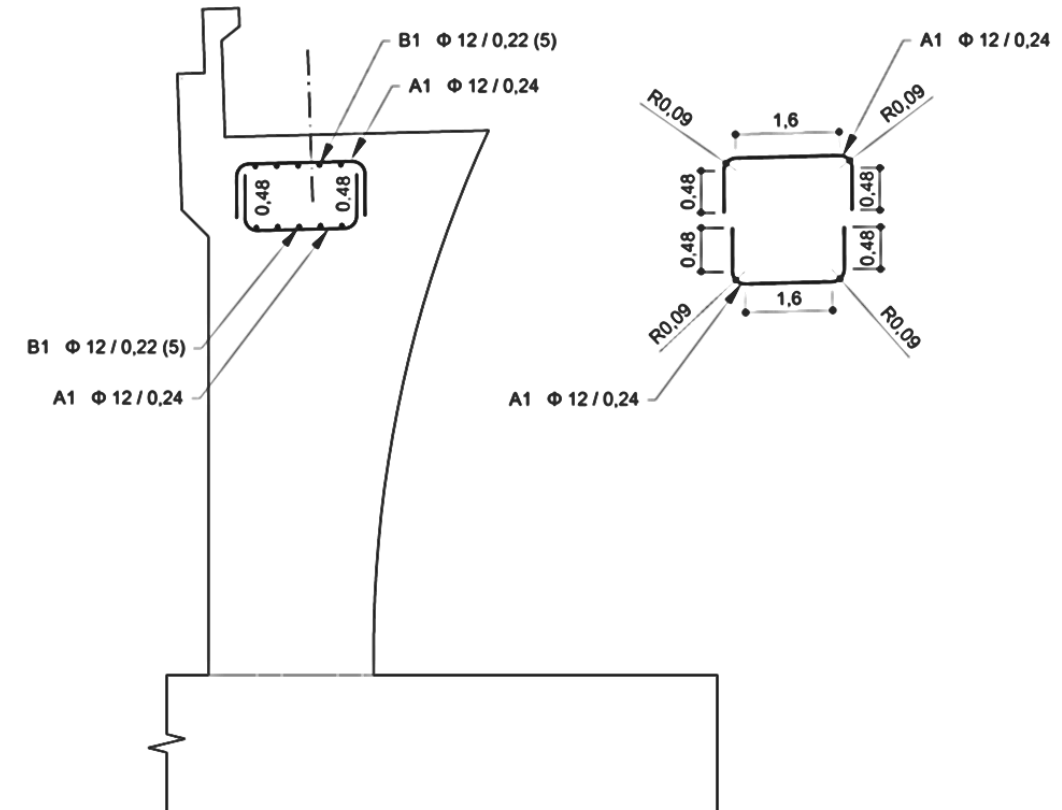


Figura 25. ARMADO Y DESPIECE DEL ESTRIBO POR CARGAS CONCENTRADAS.

Para más detalle del armado del estribo consultar el documento "PLANOS"

### Dimensionamiento de la armadura del apoyo A1

El dimensionamiento del apoyo 1ª se hace con el mismo planteamiento anterior. Para simplificar un poco el cálculo, se muestran los resultados en la siguiente tabla:

	Resultados
Dimensión a	2400 mm
Dimensión pot a1	1590 mm
Dimensión b	2500 mm
Dimensión b1	1590 mm
Área de hormigón	6000000 mm <sup>2</sup>
Área del pot	1985565 mm <sup>2</sup>
Esfuerzo de cálculo (N + M/d)	47225800 N
Tad	3984676 N



Tbd	4297547 N
f <sub>yd</sub>	400 MPa
Asa	9961.69219 mm <sup>2</sup>
Asb	10743.8695 mm <sup>2</sup>

Las armaduras a disponer serán las siguientes:

$$Asa \rightarrow \text{Diámetro} = 25 \quad \text{Redondos} = 22$$

$$Asb \rightarrow \text{Diámetro} = 25 \quad \text{Redondos} = 22$$

Las disposiciones anteriores muestran el total de armadura dispuesta, no obstante, se dispondrán en dos capas, por lo que el número de redondo disminuirá a la mitad:

$$Asa1 \rightarrow \text{Diámetro} = 25 \quad \text{Redondos} = 11$$

$$Asb1 \rightarrow \text{Diámetro} = 25 \quad \text{Redondos} = 11$$

#### Dimensionamiento de la armadura del anclaje A1

El dimensionamiento del apoyo 1ª se hace con el mismo planteamiento anterior. Para simplificar un poco el cálculo, se muestran los resultados en la siguiente tabla:

	Resultados
Dimensión a	2400 mm
Dimensión pot a1	780 mm
Dimensión b	1100 mm
Dimensión b1	780 mm
Área de hormigón	2640000 mm <sup>2</sup>
Área del pot	1985565 mm <sup>2</sup>
Esfuerzo de cálculo (M/d)	34422000 N
Tad	3984676 N
Tbd	1633686 N
f <sub>yd</sub>	400 MPa
Asa	9476.6598 mm <sup>2</sup>
Asb	4084.2170 mm <sup>2</sup>

Las armaduras a disponer serán las siguientes:

$$Asa \rightarrow \text{Diámetro} = 25 \quad \text{Redondos} = 20$$

$$Asb \rightarrow \text{Diámetro} = 20 \quad \text{Redondos} = 14$$

Las disposiciones anteriores muestran el total de armadura dispuesta, no obstante, se dispondrán en dos capas, por lo que el número de redondo disminuirá a la mitad:

$$Asa1 \rightarrow \text{Diámetro} = 25 \quad \text{Redondos} = 10$$

$$Asb1 \rightarrow \text{Diámetro} = 20 \quad \text{Redondos} = 7$$

#### Dimensionamiento de la armadura del apoyo 1I

El dimensionamiento del apoyo 1ª se hace con el mismo planteamiento anterior. Para simplificar un poco el cálculo, se muestran los resultados en la siguiente tabla:

	Resultados
Dimensión a	2400 mm
Dimensión neopreno a1	800 mm
Dimensión b	1800 mm
Dimensión b1	800 mm
Área de hormigón	2160000 mm <sup>2</sup>
Área del neopreno	640000 mm <sup>2</sup>
Esfuerzo de cálculo	1558000 N
Tad	336755 N
Tbd	319173 N
f <sub>yd</sub>	400 MPa
Asa	841.8880 mm <sup>2</sup>
Asb	797.9340 mm <sup>2</sup>

Las armaduras a disponer serán las siguientes:

$$Asa \rightarrow \text{Diámetro} = 12 \quad \text{Redondos} = 8$$

$$Asb \rightarrow \text{Diámetro} = 12 \quad \text{Redondos} = 8$$

Las disposiciones anteriores muestran el total de armadura dispuesta, no obstante, se dispondrán en dos capas, por lo que el número de redondo disminuirá a la mitad:

$$Asa1 \rightarrow \text{Diámetro} = 12 \quad \text{Redondos} = 4$$

$$Asb1 \rightarrow \text{Diámetro} = 12 \quad \text{Redondos} = 4$$

En este caso concreto, para que se cumpla la separación mínima de redondos, se aumentará a 8 redondos dispuestos por capa.

**V.4.3. Armado Estribo 2**

Para el dimensionamiento de la armadura del muro y de la aleta del estribo más próximo al parque de Tempelhof, se han utilizado los siguientes esfuerzos con sus respectivos concomitantes obtenidos directamente del modelo Sap:

Esfuerzos en ELU:

Apoyo	Esfuerzo Vertical (kN)	Cortante (kN)	Momento (kNm)
A28D	11726	0	26577
A28I	10645	0	20550

Esfuerzos en ELS característico:

Apoyo	Esfuerzo Vertical (kN)	Cortante (kN)	Momento (kNm)
A28D	9811	0	21931
A28I	9571	0	16803

Esfuerzos en ELS cuasi permanente:

Apoyo	Esfuerzo Vertical (kN)	Cortante (kN)	Momento (kNm)
A28D	8721	0	20879
A28I	8713	0	15964

**Armado del muro**

- Armadura vertical

Para el cálculo de la armadura longitudinal el muro es necesario, en primer lugar, obtener los esfuerzos en coronación del muro. Para ello dividimos los esfuerzos anteriores entre la longitud del estribo, el cual se ha aproximado a 25.5 metros. A continuación se muestran los esfuerzos anteriores por metro lineal de muro:

Esfuerzos en ELU por metro:

Apoyo	Esfuerzo Vertical (kN)	Cortante (kN)	Momento (kNm)
A28D	459	0	1042
A28I	425	0	805

Esfuerzos en ELS característico por metro:

Apoyo	Esfuerzo Vertical (kN)	Cortante (kN)	Momento (kNm)
A28D	385	0	860
A28I	375	0	659

Esfuerzos en ELS casi permanente por metro:

Apoyo	Esfuerzo Vertical (kN)	Cortante (kN)	Momento (kNm)
A28D	342	0	818
A28I	819	0	626

El empuje de tierras se ha calculado en el anejo geotécnico, obteniéndose el siguiente valor, el cual está sin ponderar:

$$E = 86.01 \text{ kN/m} \quad d = 1.92 \text{ metros}$$

La distancia d esta referenciada desde el paramento superior de la zapata.

Una vez obtenidos los valores, ya se puede pasar al cálculo de los esfuerzos en el entronque del muro.

A continuación se muestran los cálculos descritos para la obtención de estos:

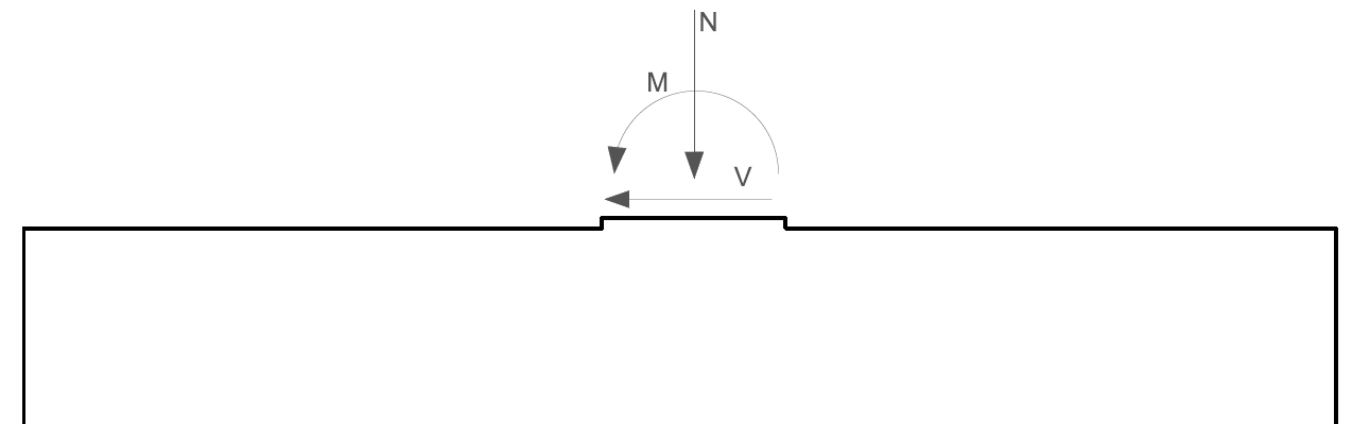


Figura 26. ESFUERZOS POSITIVOS EN EL ENTRONQUE DE LA ZAPATA

$$N = 877.29 + 5.3 * 1.1 * 1.35 * 25 = 1074 \text{ kN/m}$$

$$V = 86.01 * 1.35 = 116 \text{ kN/m}$$

$$M = -1848 - 86.01 * 1.35 * 1.92 = -2071 \text{ kNm/m}$$

Una vez obtenidos los esfuerzos en el entronque del muro, se obtiene la armadura vertical mediante el procedimiento desarrollado para el cálculo del armado en el estribo 1:

$$As \rightarrow 12 \text{ } \varnothing 20 \text{ por metro}$$

$$As' \rightarrow 8 \text{ } \varnothing 12 \text{ por metro}$$

Para la obtención de la armadura anterior se han tenido en cuenta las armaduras mínimas.

*Comprobación de fisuración por estado límite de servicio*

Esfuerzos en la sección del entronque tanto en la combinación característica como en la cuasi permanente:

Combinación característica:

$$N = 905 \text{ kN/m}$$

$$V = 86.01 \text{ kN/m}$$

$$M = -1684 \text{ kNm/m}$$

Combinación cuasi permanente:

$$N = 829 \text{ kN/m}$$

$$V = 86.01 \text{ kN/m}$$

$$M = -1610 \text{ kNm/m}$$

Para los esfuerzos anteriores se ha comprobado que la sección no fisura.

- Armadura horizontal

La armadura geométrica a disponer para el control de la fisuración, efectos térmicos, deformaciones impuestas, retracción en una cara del muro es de:

$$A_{sh, min} = 800 \text{ mm}^2$$

La armadura a disponer en una cara del muro será de:

$$8 \text{ } \varnothing 12 \text{ por metro}$$

**Longitudes de anclaje y solape**

*Armadura vertical de diámetro 20 mm*

$$L_{b, rqd} = 0.433 \text{ m}$$

$$L_o = 0.65 \text{ m}$$

*Armadura vertical de diámetro 12 mm*

$$L_{b, rqd} = 0.40 \text{ m}$$

$$L_o = 0.60 \text{ m}$$

*Armadura horizontal de diámetro 12 mm*

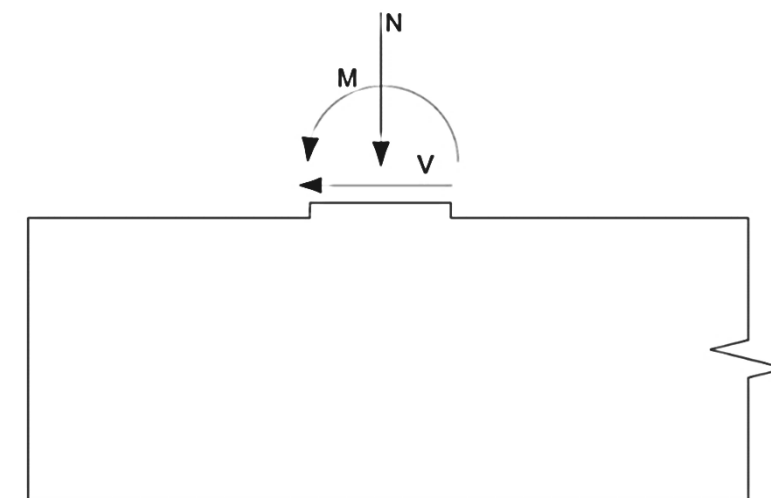
$$L_{b, rqd} = 0.379 \text{ m}$$

$$L_o = 0.568 \text{ m}$$

**Armado del muro de la aleta**

- Armadura vertical

Para el cálculo de la armadura longitudinal del muro de la aleta es necesario obtener los esfuerzos en el entronque del muro, el cual está solicitado sólo bajo la acción del empuje pasivo del terreno. A continuación se muestran los esfuerzos en el entronque del muro:



**Figura 27.** ESFUERZOS POSITIVOS EN EL ENTRONQUE DEL MURO DE LA ALETA

$$N = 5.3 * 0.75 * 1.35 * 25 = 134.15 \text{ kN/m}$$

$$V = 86.01 * 1.35 = -116.11 \text{ kN/m}$$

$$M = -86.01 * 1.35 * 1.92 = -223.76 \text{ kNm/m}$$

Una vez obtenidos los esfuerzos en el entronque del muro, se obtiene la armadura vertical mediante el procedimiento desarrollado a lo largo del anejo:

$$A_s \rightarrow 8 \varnothing 16 \text{ por metro}$$

$$A_s' \rightarrow 8 \varnothing 12 \text{ por metro}$$

Para la obtención de la armadura anterior se han tenido en cuenta las armaduras mínimas.

*Comprobación de fisuración por estado límite de servicio*

Esfuerzos en la sección del entronque tanto en la combinación característica como en la cuasi permanente:

Combinación característica:

$$N = 100 \text{ kN/m}$$

$$V = 86.01 \text{ kN/m}$$

$$M = -165 \text{ kNm/m}$$

Combinación cuasi permanente:

$$N = 100 \text{ kN/m}$$

$$V = 86.01 \text{ kN/m}$$

$$M = -165 \text{ kNm/m}$$

Para los esfuerzos anteriores se ha comprobado que la sección no fisura.

- Armadura horizontal

La armadura geométrica a disponer para el control de la fisuración, efectos térmicos, deformaciones impuestas, retracción en una cara del muro es de:

$$A_{sh, min} = 800 \text{ mm}^2$$

La armadura a disponer en una cara del muro será de:

$$8 \varnothing 12 \text{ por metro}$$

#### Longitudes de anclaje y solape

Armadura vertical de diámetro 16 mm

$$L_{b,rqd} = 0.38 \text{ m}$$

$$L_o = 0.58 \text{ m}$$

Armadura vertical de diámetro 12 mm

$$L_{b,rqd} = 0.42 \text{ m}$$

$$L_o = 0.72 \text{ m}$$

Armadura horizontal de diámetro 12 mm

$$L_{b,rqd} = 0.379 \text{ m}$$

$$L_o = 0.568 \text{ m}$$

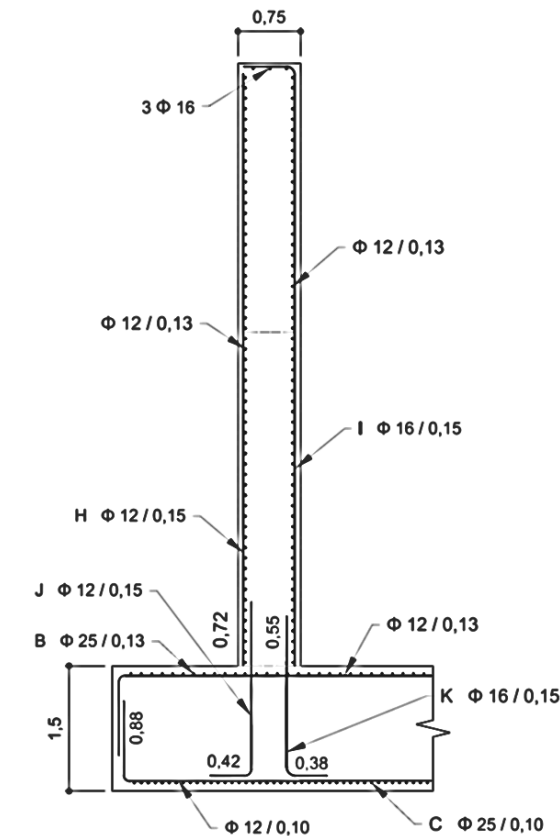
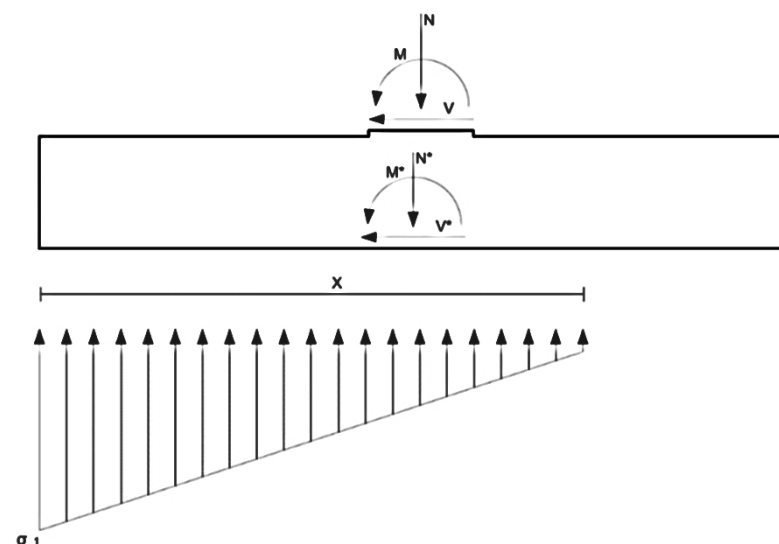


Figura 28. ARMADO DEFINITIVO DE LA ALETA DEL ESTRIBO 2



**Armado de la zapata***Obtención de esfuerzos*

Para el cálculo de la armadura longitudinal de la zapata es necesario obtenerse las tensiones del terreno. Para ello, en primer lugar, se calculan los esfuerzos en el centro de gravedad de la zapata. Para ello se ha considerado un empuje de 135.91 kN/m aplicado a 2.43 m desde la cota de cimentación de la zapata, obtenido a partir del anejo geotécnico.

**Figura 29.** REPRESENTACIÓN DE LAS TENSIONES DEL TERRENO.**Esfuerzos en ELU**

$$N^* = 2239 \text{ kN/m}$$

$$V^* = -183 \text{ kN/m}$$

$$M^* = -974 \text{ kNm/m}$$

**Esfuerzos en ELS cuasi permanente**

$$N^* = 1768 \text{ kN/m}$$

$$V^* = -86.01 \text{ kN/m}$$

$$M^* = -775 \text{ kNm/m}$$

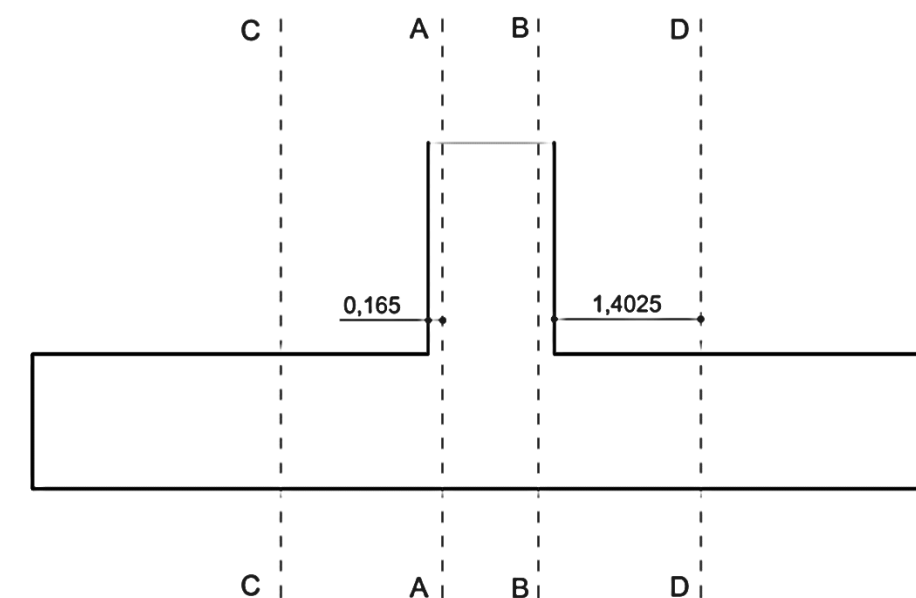
**Esfuerzos en ELS característico**

$$N^* = 1768 \text{ kN/m}$$

$$V^* = 86 \text{ kN/m}$$

$$M^* = -798 \text{ kNm/m}$$

Una vez, obtenidos los esfuerzos en el centro de gravedad de la zapata, se deben calcular las tensiones del terreno y los esfuerzos en las distintas secciones críticas de ésta, al igual que se ha hecho para el cálculo de la zapata del estribo 1. A continuación se muestra una tabla resumen donde se han resumido los distintos valores obtenidos para cada sección:

**Figura 30.** SECCIONES A ANALIZAR PARA EL DIMENSIONAMIENTO DEL ARMADO DE LA ZAPATA

ELU	N (kN)	V (kN)	M (kNm)
Sección A	183	337	-59.6
Sección B	0	534	1356
Sección C	0	101	66
Sección D	0	139	303

ELS característico	N (kN)	V (kN)	M (kNm)
Sección A	136	242	-66
Sección B	0	392	999
Sección C	0	67	39
Sección D	0	89	209





### Dimensionamiento de la armadura del apoyo A28D

El dimensionamiento del armado del apoyo A28D se hace con el mismo planteamiento que en los realizados en apartados anteriores. A continuación se muestran los resultados en la siguiente tabla:

	Resultados
Dimensión a	1500 mm
Dimensión pot a1	1050 mm
Dimensión b	1500 mm
Dimensión b1	1050 mm
Área de hormigón	1800000 mm <sup>2</sup>
Área del pot	865901 mm <sup>2</sup>
Esfuerzo de cálculo (N + M/d)	22356800 N
Tad	1676760 N
Tbd	1676760 N
fyd	400 MPa
Asa	4191.9 mm <sup>2</sup>
Asb	4191.9 mm <sup>2</sup>

Las armaduras a disponer serán las siguientes:

$$Asa \rightarrow \text{Diámetro} = 20 \quad \text{Redondos} = 14$$

$$Asb \rightarrow \text{Diámetro} = 20 \quad \text{Redondos} = 14$$

Las disposiciones anteriores muestran el total de armadura dispuesta, no obstante, se dispondrán en dos capas, por lo que el número de redondo disminuirá a la mitad:

$$Asa1 \rightarrow \text{Diámetro} = 20 \quad \text{Redondos} = 7$$

$$Asb1 \rightarrow \text{Diámetro} = 20 \quad \text{Redondos} = 7$$

### Dimensionamiento de la armadura del anclaje A28D

El dimensionamiento del armado del apoyo A28D se hace con el mismo planteamiento que en los realizados en apartados anteriores. A continuación se muestran los resultados en la siguiente tabla:

	Resultados
Dimensión a	1600 mm
Dimensión pot a1	1050 mm
Dimensión b	1600 mm
Dimensión b1	1050 mm

Área de hormigón	2048000 mm <sup>2</sup>
Área del pot	865901 mm <sup>2</sup>
Esfuerzo de cálculo (M/d)	10630800 N
Tad	913584 N
Tbd	913584 N
fyd	400 MPa
Asa	2283 mm <sup>2</sup>
Asb	2283 mm <sup>2</sup>

Las armaduras a disponer serán las siguientes:

$$Asa \rightarrow \text{Diámetro} = 12 \quad \text{Redondos} = 22$$

$$Asb \rightarrow \text{Diámetro} = 12 \quad \text{Redondos} = 22$$

Las disposiciones anteriores muestran el total de armadura dispuesta, no obstante, se dispondrán en dos capas, por lo que el número de redondo disminuirá a la mitad:

$$Asa1 \rightarrow \text{Diámetro} = 12 \quad \text{Redondos} = 11$$

$$Asb1 \rightarrow \text{Diámetro} = 12 \quad \text{Redondos} = 11$$

### Dimensionamiento de la armadura del apoyo A28I

El dimensionamiento del armado del apoyo A28D se hace con el mismo planteamiento que en los realizados en apartados anteriores. A continuación se muestran los resultados en la siguiente tabla:

	Resultados
Dimensión a	1500 mm
Dimensión pot a28i	985 mm
Dimensión b	1500 mm
Dimensión b1	985 mm
Área de hormigón	1757812 mm <sup>2</sup>
Área del pot	762012 mm <sup>2</sup>
Esfuerzo de cálculo (N + M/d)	18865000 N
Tad	1619245 N
Tbd	1619245 N
fyd	400 MPa
Asa	4048 mm <sup>2</sup>
Asb	4048 mm <sup>2</sup>



Las armaduras a disponer serán las siguientes:

$$Asa \rightarrow \text{Diámetro} = 16 \quad \text{Redondos} = 22$$

$$Asb \rightarrow \text{Diámetro} = 16 \quad \text{Redondos} = 22$$

Las disposiciones anteriores muestran el total de armadura dispuesta, no obstante, se dispondrán en dos capas, por lo que el número de redondo disminuirá a la mitad:

$$Asa1 \rightarrow \text{Diámetro} = 16 \quad \text{Redondos} = 11$$

$$Asb1 \rightarrow \text{Diámetro} = 16 \quad \text{Redondos} = 11$$

#### Dimensionamiento de la armadura del anclaje A28D

El dimensionamiento del armado del apoyo A28D se hace con el mismo planteamiento que en los realizados en apartados anteriores. A continuación se muestran los resultados en la siguiente tabla:

	Resultados
Dimensión a	1600 mm
Dimensión pot a28d	985 mm
Dimensión b	1600 mm
Dimensión b1	985 mm
Área de hormigón	2000000 mm <sup>2</sup>
Área del pot	762012 mm <sup>2</sup>
Esfuerzo de cálculo (M/d)	8220000 N
Tad	789890 N
Tbd	789890 N
f <sub>yd</sub>	400 MPa
Asa	1974 mm <sup>2</sup>
Asb	1974 mm <sup>2</sup>

Las armaduras a disponer serán las siguientes:

$$Asa \rightarrow \text{Diámetro} = 12 \quad \text{Redondos} = 18$$

$$Asb \rightarrow \text{Diámetro} = 12 \quad \text{Redondos} = 18$$

Las disposiciones anteriores muestran el total de armadura dispuesta, no obstante, se dispondrán en dos capas, por lo que el número de redondo disminuirá a la mitad:

$$Asa1 \rightarrow \text{Diámetro} = 12 \quad \text{Redondos} = 9$$

$$Asb1 \rightarrow \text{Diámetro} = 12 \quad \text{Redondos} = 9$$

#### V.5. Comprobación de flechas y cumplimiento de gálibos

Para la comprobación de los estados límite de deformaciones se han de cumplir dos limitaciones, la limitación impuesta por la IAP-11 y la limitación impuesta por el pliego.

##### Limitaciones de la IAP-11

En el artículo 7.1.1 de la IAP-11 se establece que la flecha vertical máxima correspondiente al valor frecuente de la sobrecarga de uso no será superior a  $L/1000$  (en puentes de carretera), siendo  $L$  la luz del vano.

La luz del puente es de 60 metros, de manera que:

$$L_{\text{máx}} = \frac{60}{1000} = 0.06 \text{ m} = 6 \text{ cm}$$

Para el valor frecuente de la sobrecarga de uso el desplazamiento vertical máximo entre todos los puntos es:

$$\delta_v = 3.02 \text{ cm} < 6 \text{ cm} \rightarrow \text{Se cumple la limitación de la IAP} - 11$$

##### Limitación impuesta por el Pliego:

El pliego establece que se han de respetar unos gálibos para los trenes de 1.35 metros por encima de la cota más alta de éstos. Siendo así, el espacio mínimo disponible entre la rasante y los gálibos de los trenes es de 1.3675 metros.

Con el puente construido, el espacio disponible entre la cara inferior del tablero y los gálibos es de:

$$e_{\text{disponible}} = e_{\text{mínimo}} - h_{\text{tablero}} = 1.3675 - (0.9 + 0.26 + 0.1) = 0.1075 \text{ m} = 10.75 \text{ cm}$$

Sabiendo que el desplazamiento vertical máximo de entre todos los puntos del tablero es de 3.02 cm < 10.75 cm, se cumple la limitación.

#### V.6. Contraflechas

Las contraflechas se han calculado obteniendo los desplazamientos verticales correspondientes al valor frecuente del peso propio y cargas muertas. Para obtenerlas se han utilizado los dos modelos de análisis descritos.

##### Con el modelo que simula el proceso constructivo se han obtenido los desplazamientos debidos a:

- Peso del tablero en el momento en que la losa de hormigón se ha colocado, pero aún no trabaja. El arco tiene los arranques hormigonados y el tramo central del arco es únicamente metálico.
- Peso del hormigón del arco recién hormigonado, de manera que pesa pero aún no trabaja.



- Con el modelo del puente construido se ha obtenido los desplazamientos debidos a:

- Cargas muertas: pavimento, imposta, barandillas, etc.

Los valores de desplazamientos verticales obtenidos se resumen en la tabla siguiente:

Desplazamientos		11D		7		H2D		13		3.4I	
Joint	U3	11I		8		H2I		14		3.5D	
Text	m	12D		9		H3D		15		3.5I	
1D	0	12I		A10		H3I		16		3.6D	
1I	0	13D		A11		H4D		17		3.6I	
2D	-0.07557911	13I		A12		H4I		18		3.7D	
2I	-0.07614727	14D		A13		H5D		19		3.7I	
3D	-0.14501235	14I		A14		H5I		2.1D		4.1D	
3I	-0.14613873	15D		A15		H6D		2.1I		4.1I	
4D	-0.20345249	15I		A16		H6I		2.2D		4.2D	
4I	-0.20511394	16D		A17		H7D		2.2I		4.2I	
5D	-0.24504547	16I		C1D		H7I		2.3D		4.3D	
5I	-0.24721436	17D		C1I		H8D		2.3I		4.3I	
6D	-0.26892793	17I		C2D		H8I		2.4D		4.4D	
6I	-0.27156759	18D		C2I		H9D		2.4I		4.4I	
7D	-0.27707484	18I		C3D		H9I		2.5D		4.5D	
7I	-0.2801667	19D		C3I		1.1D		2.5I		4.5I	
8D	-0.27571522	19I		C4D		1.1I		2.6D		4.6D	
8I	-0.27925638	2		C4I		1.2D		2.6I		4.6I	
9D	-0.27288918	20D		C5D		1.2I		2.7D		4.7D	
9I	-0.27688743	20I		C5I		1.3D		2.7I		4.7I	
A1	0	21D		C6D		1.3I		20		5.1D	
A2	0.00035137	21I		C6I		1.4D		21		5.1I	
A3	0.00239416	22D		D1D		1.4I		22		5.2D	
A4	0.0078556	22I		D1I		1.5D		23		5.2I	
A5	0.01928557	23D		D2D		1.5I		24		5.3D	
A6	0.03679481	23I		D2I		1.6D		3.1D		5.3I	
A7	0.04182918	24D		D3D		1.6I		3.1I		5.4D	
A8	0.01594324	24I		D3I		1.7D		3.2D		5.4I	
A9	-0.03626364	3		D4D		1.7I		3.2I		5.5D	
1	0	4		D4I		10		3.3D		5.5I	
10D	-0.26576058	5		H1D		11		3.3I		5.6D	
10I	-0.27021368	6		H1I		12		3.4D		5.6I	





5.7D	-0.23225494	8.5D	-0.27157044	A27D	-0.00110324	H20D	-0.13133156	11.4I	-0.26547325	14.2I	-0.27034581
5.7I	-0.23547839	8.5I	-0.2753168	A27I	-0.00096641	H20I	-0.13590561	11.5D	-0.25151394	14.3D	-0.25093073
6.1D	-0.29974469	8.6D	-0.25892895	A28D	0	H21D	-0.09345999	11.5I	-0.25668915	14.3I	-0.25546966
6.1I	-0.30041156	8.6I	-0.26333933	A28I	0	H21I	-0.09676762	11.6D	-0.23716025	14.4D	-0.23560865
6.2D	-0.29241251	8.7D	-0.24408021	C1DA	-0.16243074	H22D	-0.05242229	11.6I	-0.24324797	14.4I	-0.241262
6.2I	-0.29374393	8.7I	-0.24936019	C1IA	-0.16275042	H22I	-0.05431728	11.7D	-0.22001774	14.5D	-0.22613316
6.3D	-0.28123036	9.1D	-0.31506349	C2DA	-0.20842684	H23D	-0.01626699	11.7I	-0.22730045	14.5I	-0.23246209
6.3I	-0.28322062	9.1I	-0.31606969	C2IA	-0.20884846	H23I	-0.01697188	12.1D	-0.29449888	14.6D	-0.21157317
6.4D	-0.27165937	9.2D	-0.30563848	C3DA	-0.22748364	H24D	0.00128847	12.1I	-0.29584152	14.6I	-0.2189951
6.4I	-0.27414707	9.2I	-0.30764857	C3IA	-0.22805768	H24I	0.00112337	12.2D	-0.28437775	14.7D	-0.1941676
6.5D	-0.26619611	9.3D	-0.29080101	C4DA	-0.2207904	H3.0	-0.14744817	12.2I	-0.28705728	14.7I	-0.20302019
6.5I	-0.26898775	9.3I	-0.29380977	C4IA	-0.22155288	H4.0	-0.21914178	12.3D	-0.26848766	15.1D	-0.26845402
6.6D	-0.25802945	9.4D	-0.27708086	C5DA	-0.19606497	H5.0	-0.27147262	12.3I	-0.27249068	15.1I	-0.27005055
6.6I	-0.26131295	9.4I	-0.28084719	C5IA	-0.19706458	H6.0	-0.30232196	12.4D	-0.25374782	15.2D	-0.2583015
6.7D	-0.24905038	9.5D	-0.26869692	C6AD	-0.16295085	H7.0	-0.31630797	12.4I	-0.25874789	15.2I	-0.26148142
6.7I	-0.25297789	9.5I	-0.27292712	C6IA	-0.16423564	H8.0	-0.32050455	12.5D	-0.24467693	15.3D	-0.24246665
7.1D	-0.31328827	9.6D	-0.25578775	H1.0	0	H9.0	-0.31849078	12.5I	-0.25028486	15.3I	-0.2471994
7.1I	-0.31406751	9.6I	-0.26076864	H10D	-0.26577598	10.1D	-0.30950001	12.6D	-0.23065882	15.4D	-0.22782645
7.2D	-0.30497071	9.7D	-0.24048724	H10I	-0.27022818	10.1I	-0.31062196	12.6I	-0.23725023	15.4I	-0.23371168
7.2I	-0.30652696	9.7I	-0.24645135	H11D	-0.25620478	10.2D	-0.2997245	12.7D	-0.21388562	15.5D	-0.21883842
7.3D	-0.29208377	A18D	-0.10548254	H11I	-0.26109701	10.2I	-0.30196543	12.7I	-0.22176474	15.5I	-0.22541983
7.3I	-0.29441212	A18I	-0.10612626	H12D	-0.24922869	10.3D	-0.28434727	13.1D	-0.28633439	15.6D	-0.20495335
7.4D	-0.28051214	A19D	-0.08040595	H12I	-0.25453161	10.3I	-0.28770015	13.1I	-0.28777556	15.6I	-0.2126612
7.4I	-0.28342514	A19I	-0.08170722	H13D	-0.24082683	10.4D	-0.27012438	13.2D	-0.2761468	15.7D	-0.1883714
7.5D	-0.27363705	A20D	-0.05923502	H13I	-0.24650048	10.4I	-0.27431976	13.2I	-0.27902139	15.7I	-0.19755418
7.5I	-0.2769078	A20I	-0.06119346	H14D	-0.23088795	10.5D	-0.26139617	13.3D	-0.26018323	16.1D	-0.25779524
7.6D	-0.26317819	A21D	-0.04137608	H14I	-0.23687789	10.5I	-0.26610702	13.3I	-0.26447333	16.1I	-0.25943107
7.6I	-0.26702796	A21I	-0.04399118	H15D	-0.22334861	10.6D	-0.24791967	13.4D	-0.24536831	16.2D	-0.24778719
7.7D	-0.25118943	A22D	-0.02802462	H15I	-0.22958068	10.6I	-0.25346467	13.4I	-0.25072025	16.2I	-0.25104229
7.7I	-0.2557975	A22I	-0.03089286	H16D	-0.21349134	10.7D	-0.23186191	13.5D	-0.23625255	16.3D	-0.23221574
8.1D	-0.31725282	A23D	-0.01912909	H16I	-0.21984648	10.7I	-0.23849935	13.5I	-0.24225021	16.3I	-0.23705269
8.1I	-0.31814456	A23I	-0.02142467	H17D	-0.19930713	11.1D	-0.30230074	13.6D	-0.22215554	16.4D	-0.21787214
8.2D	-0.30801951	A24D	-0.0124542	H17I	-0.20561128	11.1I	-0.30353602	13.6I	-0.22919808	16.4I	-0.22387692
8.2I	-0.30980082	A24I	-0.01379151	H18D	-0.18368825	11.2D	-0.29210346	13.7D	-0.20527052	16.5D	-0.20907891
8.3D	-0.29340781	A25D	-0.0075792	H18I	-0.18970451	11.2I	-0.29456985	13.7I	-0.21368129	16.5I	-0.21578691
8.3I	-0.2960734	A25I	-0.00761285	H19D	-0.16196318	11.3D	-0.27598735	14.1D	-0.27771191	16.6D	-0.19550379
8.4D	-0.27985942	A26D	-0.00396088	H19I	-0.16741511	11.3I	-0.27967535	14.1I	-0.27924012	16.6I	-0.20334915
8.4I	-0.28319542	A26I	-0.00345846	H2.0	-0.07792848	11.4D	-0.26086198	14.2D	-0.26730003	16.7D	-0.17934463



16.7I	-0.18867785	19.5I	-0.16392568	22.3I	-0.06701704	H1.1I	-0.00043648	H3.3D	-0.14476014	H7.2D	-0.30497508
17.1D	-0.24379197	19.6D	-0.14663032	22.4D	-0.05545477	H1.2D	-0.00059062	H3.3I	-0.14561735	H7.2I	-0.30653102
17.1I	-0.24541932	19.6I	-0.15336998	22.4I	-0.05714617	H1.2I	-0.00058693	H3.6D	-0.14708824	H7.3D	-0.29209257
17.2D	-0.23379452	19.7D	-0.13315544	22.5D	-0.04936791	H1.3D	-0.0002507	H3.6I	-0.14847947	H7.3I	-0.29442046
17.2I	-0.23703177	19.7I	-0.1411836	22.5I	-0.05146794	H1.3I	-0.00020053	H3.7D	-0.15108062	H7.6D	-0.26314672
17.3D	-0.21819246	20.1D	-0.16883539	22.6D	-0.04002612	H1.5I	-0.00065113	H3.7I	-0.15273692	H7.6I	-0.26699831
17.3I	-0.22299862	20.1I	-0.16997329	22.6I	-0.04278992	H1.6D	-0.00075554	H4.1D	-0.21792185	H7.7D	-0.251126
17.4D	-0.2037276	20.2D	-0.16014374	22.7D	-0.02926848	H1.7D	-0.00251662	H4.1I	-0.21834513	H7.7I	-0.25573833
17.4I	-0.20968679	20.2I	-0.16241968	22.7I	-0.03293289	H1.7I	-0.00272254	H4.2D	-0.21412691	H8.1D	-0.31725409
17.5D	-0.19485475	20.3D	-0.14679991	23.1D	-0.04808456	H10.0	-0.31303796	H4.2I	-0.21497098	H8.1I	-0.31814564
17.5I	-0.20150633	20.3I	-0.15021887	23.1I	-0.04789776	H11.0	-0.30604357	H4.3D	-0.20845847	H8.2D	-0.30802444
17.6D	-0.1812694	20.4D	-0.13487399	23.2D	-0.04036332	H12.0	-0.29823331	H4.3I	-0.20971659	H8.2I	-0.30980538
17.6I	-0.18904141	20.4I	-0.13917541	23.2I	-0.04011722	H13.0	-0.29015179	H4.6D	-0.20042524	H8.3D	-0.29341789
17.7D	-0.16516018	20.5D	-0.12776355	23.3D	-0.02873506	H14.0	-0.28159915	H4.6I	-0.20248546	H8.3I	-0.29608295
17.7I	-0.17439985	20.5I	-0.13261218	23.3I	-0.02872764	H15.0	-0.27231026	H4.7D	-0.19952936	H8.6D	-0.25889063
18.1D	-0.22541633	20.6D	-0.11694855	23.4D	-0.01895743	H16.0	-0.26160276	H4.7I	-0.20198894	H8.6I	-0.2633031
18.1I	-0.2269719	20.6I	-0.12268011	23.4I	-0.0194486	H17.0	-0.24759678	H5.1D	-0.26921747	H8.7D	-0.24400043
18.2D	-0.21587389	20.7D	-0.10454391	23.5D	-0.01355712	H18.0	-0.22905469	H5.1I	-0.26976651	H8.7I	-0.24928531
18.2I	-0.21896617	20.7I	-0.11142926	23.5I	-0.01447726	H19.0	-0.20483837	H5.2D	-0.26315284	H9.1D	-0.31506481
18.3D	-0.20113711	21.1D	-0.12863831	23.6D	-0.00559553	H2.1D	-0.07798607	H5.2I	-0.26424845	H9.1I	-0.3160708
18.3I	-0.2057253	21.1I	-0.12940387	23.6I	-0.00723364	H2.1I	-0.07810855	H5.3D	-0.25424691	H9.2D	-0.30564348
18.4D	-0.18773673	21.2D	-0.12053463	23.7D	0.00297655	H2.2D	-0.07739127	H5.3I	-0.2558838	H9.2I	-0.30765315
18.4I	-0.19342412	21.2I	-0.12208491	23.7I	0.00039269	H2.2I	-0.07764468	H5.6D	-0.2375902	H9.3D	-0.2908113
18.5D	-0.17961054	21.3D	-0.10796228	24.1D	-0.02280821	H2.3D	-0.07605192	H5.6I	-0.24028737	H9.3I	-0.29381945
18.5I	-0.18595801	21.3I	-0.11034566	24.1I	-0.02235502	H2.3I	-0.07645043	H5.7D	-0.23222933	H9.6D	-0.2557485
18.6D	-0.16712786	21.4D	-0.09675174	24.2D	-0.01719944	H2.6D	-0.0768577	H5.7I	-0.23545575	H9.6I	-0.26073176
18.6I	-0.17454244	21.4I	-0.09983329	24.2I	-0.01645654	H2.6I	-0.07760573	H6.1D	-0.2997457	H9.7D	-0.24040462
18.7D	-0.15250098	21.5D	-0.09014447	24.3D	-0.00841612	H2.7D	-0.0800354	H6.1I	-0.30041243	H9.7I	-0.24637428
18.7I	-0.16131056	21.5I	-0.09367979	24.3I	-0.0077662	H2.7I	-0.08096329	H6.2D	-0.29241638	H10.1D	-0.30950136
19.1D	-0.20138399	21.6D	-0.08013058	24.4D	-0.00079764	H20.0	-0.17207838	H6.2I	-0.29374754	H10.1I	-0.31062308
19.1I	-0.20278279	21.6I	-0.08439903	24.4I	-0.00069542	H21.0	-0.13156576	H6.3D	-0.28123779	H10.2D	-0.2997297
19.2D	-0.19230514	21.7D	-0.06853573	24.5D	0.00338963	H22.0	-0.08819617	H6.3I	-0.28322765	H10.2I	-0.30197018
19.2I	-0.1950907	21.7I	-0.0737638	24.5I	0.0029553	H23.0	-0.05063673	H6.6D	-0.25800524	H10.3D	-0.28435791
19.3D	-0.17832731	22.1D	-0.08549771	24.6D	0.00968679	H24.0	-0.02455749	H6.6I	-0.2612903	H10.3I	-0.28771012
19.3I	-0.1824703	22.1I	-0.0857783	24.6I	0.00843522	H3.1D	-0.14699062	H6.7D	-0.24900385	H10.6D	-0.24787863
19.4D	-0.1657303	22.2D	-0.07774975	24.7D	0.01720778	H3.1I	-0.14728096	H6.7I	-0.25293499	H10.6I	-0.25342624
19.4I	-0.1708795	22.2I	-0.07838321	24.7I	0.01495244	H3.2D	-0.14587712	H7.1D	-0.31328944	H10.7D	-0.23177497
19.5D	-0.15816885	22.3D	-0.06587938	H1.1D	-0.00039732	H3.2I	-0.14645405	H7.1I	-0.31406852	H10.7I	-0.23841856



H11.1D	-0.30230216	H13.3D	-0.26019432	H15.7D	-0.18828151	H18.2D	-0.21587891	H20.6D	-0.11691601	H23.1D	-0.04808561
H11.1I	-0.30353719	H13.3I	-0.26448355	H15.7I	-0.19747259	H18.2I	-0.21897057	H20.6I	-0.12265034	H23.1I	-0.04789884
H11.2D	-0.29210887	H13.6D	-0.22211453	H16.1D	-0.25779665	H18.3D	-0.20114722	H20.7D	-0.10447827	H23.2D	-0.04036734
H11.2I	-0.29457476	H13.6I	-0.22916021	H16.1I	-0.25943215	H18.3I	-0.20573451	H20.7I	-0.11137013	H23.2I	-0.04012122
H11.3D	-0.27599856	H13.7D	-0.20517878	H16.2D	-0.24779248	H18.6D	-0.16709004	H21.1D	-0.12863943	H23.3D	-0.02874263
H11.3I	-0.27968582	H13.7I	-0.21359726	H16.2I	-0.25104692	H18.6I	-0.17450798	H21.1I	-0.12940484	H23.3I	-0.02873492
H11.6D	-0.23711651	H14.1D	-0.27771336	H16.3D	-0.2322265	H18.7D	-0.15242273	H21.2D	-0.12053889	H23.6D	-0.00557051
H11.6I	-0.2432071	H14.1I	-0.27924126	H16.3I	-0.23706249	H18.7I	-0.16124016	H21.2I	-0.12208884	H23.6I	-0.00721106
H11.7D	-0.21992471	H14.2D	-0.26730555	H16.6D	-0.19546247	H19.1D	-0.20138527	H21.3D	-0.10797082	H23.7D	0.00302166
H11.7I	-0.22721416	H14.2I	-0.27035071	H16.6I	-0.20331141	H19.1I	-0.20278378	H21.3I	-0.11035366	H23.7I	0.00043241
H12.1D	-0.29450029	H14.3D	-0.25094209	H16.7D	-0.17925724	H19.2D	-0.19230991	H21.6D	-0.0801005	H24.1D	-0.02280894
H12.1I	-0.29584266	H14.3I	-0.25548012	H16.7I	-0.18859884	H19.2I	-0.1950949	H21.6I	-0.08437126	H24.1I	-0.02235584
H12.2D	-0.28438313	H14.6D	-0.21152878	H17.1D	-0.24379338	H19.3D	-0.17833688	H21.7D	-0.06847174	H24.2D	-0.01720235
H12.2I	-0.28706211	H14.6I	-0.21895415	H17.1I	-0.2454204	H19.3I	-0.18247904	H21.7I	-0.07370536	H24.2I	-0.0164595
H12.3D	-0.26849868	H14.7D	-0.19407314	H17.2D	-0.23379979	H19.6D	-0.14659554	H22.1D	-0.08549878	H24.3D	-0.0084219
H12.3I	-0.27250089	H14.7I	-0.20293378	H17.2I	-0.23703639	H19.6I	-0.1533383	H22.1I	-0.08577931	H24.3I	-0.00777174
H12.6D	-0.23061607	H15.1D	-0.26845545	H17.3D	-0.21820325	H19.7D	-0.13308123	H22.2D	-0.0777538	H24.6D	0.00970615
H12.6I	-0.23721058	H15.1I	-0.27005165	H17.3I	-0.22300846	H19.7I	-0.14111684	H22.2I	-0.07838708	H24.6I	0.00845215
H12.7D	-0.21379456	H15.2D	-0.25830686	H17.6D	-0.18122815	H20.1D	-0.16883661	H22.3D	-0.06588733	H24.7D	0.01725142
H12.7I	-0.22168093	H15.2I	-0.26148613	H17.6I	-0.18900368	H20.1I	-0.16997428	H22.3I	-0.0670246	H24.7I	0.01499031
H13.1D	-0.28633582	H15.3D	-0.24247762	H17.7D	-0.1650731	H20.2D	-0.1601483	H22.6D	-0.0399978		
H13.1I	-0.2877767	H15.3I	-0.24720943	H17.7I	-0.17432104	H20.2I	-0.16242378	H22.6I	-0.0427637		
H13.2D	-0.27615219	H15.6D	-0.20491139	H18.1D	-0.22541768	H20.3D	-0.14680897	H22.7D	-0.02920978		
H13.2I	-0.27902619	H15.6I	-0.21262275	H18.1I	-0.22697292	H20.3I	-0.15022722	H22.7I	-0.03287955		



## **ANEXO AL ANEJO Nº4 DISEÑO Y COMPROBACIÓN DE LA ESTRUCTURA**

### *I. DEFINICION DEL MODELO DE CÁLCULO*

- I.1. Coordenadas de los nudos*
- I.2. Coacciones en los apoyos*
- I.3. Puntos de unión de la barras*
- I.4. Sección asignada a cada barra*
- I.5. Sección asignada a los elementos tipo área*
- I.6. Nudos de dimensión finita*
- I.7. Acciones actuantes sobre el puente*
- I.8. Cargas puntuales sobre nudos*
- I.9. Cargas puntuales sobre barras*
- I.10. Cargas uniformemente distribuidas*
- I.11. Acciones térmicas en vigas*
- I.12. Acciones térmicas en losa de hormigón*
- I.13. Combinaciones de acciones*

### *II. RESULTADOS (para ELU5 y frELS3)*

- II.1. Esfuerzos sobre las barras*
- II.2. Esfuerzos en la losa*
- II.3. Reacciones en los apoyos*
- II.4. Desplazamientos en los nudos*





## I. DEFINICIÓN DEL MODELO DE CÁLCULO

## I.1. Coordenadas de los nudos

Nomenclatura nudos	
Nudo tipo	Mirando de Oberland hacia Tempelhof
A1	primer punto del arco lado Oberlandstrasse
A18D	arco arranque derecho
A18I	arco arranque izquierdo
C1DA	primer cable de la derecha union con el arco
C1D	primer cable de la derecha unión tablero
C2IA	segundo cable de la izquierda union con el arco
C2I	segundo cable de la izquierda union tablero
D1D	primer punto de la diagonal derecha
D4I	último punto de la diagonal izquierda
1D	primer punto del cajón longitudinal de la derecha
3I	tercer punto del cajón longitudinal de la izquierda
1.0.	punto central de la primera viga de piso
1.1D	primer punto de la derecha de la primera viga de piso
1.4I	Último punto de la izquierda de la primera viga de piso
1.5D	primer punto de la derecha del primer cuchillo
1.7I	Último punto de la izquierda del primer cuchillo
H1.6D	Punto de la losa situado sobre el punto 1.6D

TABLE: Joint Coordinates			
Joint	GlobalX	GlobalY	GlobalZ
Text	m	m	m
1D	-8.49560625	57.4905108	-0.46326155
1I	8.50321881	57.4905108	-0.46326155
2D	-8.49560625	54.9918908	-0.38020962
2I	8.50321881	54.9918908	-0.38020962
3D	-8.49560625	52.4932367	-0.29819608
3I	8.50321881	52.4932367	-0.29819608
4D	-8.49560625	49.9942961	-0.22541203
4I	8.50321881	49.9942961	-0.22541203
5D	-8.49560625	47.4953131	-0.15411117
5I	8.50321881	47.4953131	-0.15411117
6D	-8.49560625	44.9960248	-9.45E-02
6I	8.50321881	44.9960248	-9.45E-02
7D	-8.49560625	42.4965641	-4.25E-02
7I	8.50321881	42.4965641	-0.04253785
8D	-8.49560625	39.9971034	9.39E-03
8I	8.50321881	39.9971034	9.39E-03
9D	-8.49560625	37.4975893	5.87E-02
9I	8.50321881	37.4975893	5.87E-02
A1	3.81E-03	57.9720864	0.111504
A2	3.81E-03	56.1059494	1.7759432
A3	0.00380558	54.2261979	3.43130544
A4	3.81E-03	52.3223393	5.05632383
A5	3.81E-03	50.3418443	6.58427824
A6	3.81E-03	48.2128975	7.90751265
A7	3.81E-03	45.9643197	9.00901785
A8	0.00380558	43.6446015	9.94409804
A9	3.81E-03	41.2701015	10.7343357
1	3.81E-03	57.4905108	-0.36326847
10D	-8.49560625	34.9977842	8.99E-02
10I	8.50321881	34.9977842	8.99E-02
11D	-8.49560625	32.4979791	0.12110474
11I	8.50321881	32.4979791	0.12110474
12D	-8.49560625	29.9981739	0.15231955
12I	8.50321881	29.9981739	0.15231955

13D	-8.49560625	27.498209	0.16556738
13I	8.50321881	27.498209	0.16556738
14D	-8.49560625	24.9982441	0.1788152
14I	8.50321881	24.9982441	0.1788152
15D	-8.49560625	22.4982452	0.18108411
15I	8.50321881	22.4982452	0.18108411
16D	-8.49560182	19.9982462	0.18335266
16I	8.50321438	19.9982462	0.18335266
17D	-8.49560625	17.4982511	0.17841833
17I	8.50321881	17.4982511	0.17841833
18D	-8.49560625	14.9983073	0.16164738
18I	8.50321881	14.9983073	0.16164738
19D	-8.49560625	12.4983636	0.14487643
19I	8.50321881	12.4983636	0.14487643
2	3.81E-03	54.9918908	-0.28021654
20D	-8.49560625	9.99852248	0.11668986
20I	8.50321881	9.99852248	0.11668986
21D	-8.49560625	7.49868138	8.85E-02
21I	8.50321881	7.49868138	8.85E-02
22D	-8.49560625	4.99894803	5.20E-02
22I	8.50321881	4.99894803	5.20E-02
23D	-8.49560625	2.4993721	5.95E-03
23I	8.50321881	2.4993721	5.95E-03
24D	-8.49560625	0	-5.01E-02
24I	8.50321881	-3.80E-15	-0.05008263
3	3.81E-03	52.4932367	-0.19819165
4	3.81E-03	49.9942961	-0.12541895
5	3.81E-03	47.4953131	-5.41E-02
6	3.81E-03	44.9960248	5.53E-03
7	3.81E-03	42.4965641	5.75E-02
8	3.81E-03	39.9971034	0.10937993
9	3.81E-03	37.4975893	0.15866819
A10	3.81E-03	38.854161	11.3825118
A11	3.81E-03	36.3975799	11.8778026
A12	3.81E-03	33.9180683	12.214497
A13	3.81E-03	31.4188376	12.3823233
A14	3.81E-03	28.9167258	12.372596

A15	3.81E-03	26.4237103	12.185676
A16	3.81E-03	23.9451969	11.8403848
A17	0.00380558	21.8216203	11.3978791
C1D	-8.4982655	47.4951303	0.49586189
C1I	8.50587666	47.4951303	0.49586189
C2D	-8.49560625	39.9971034	0.65938685
C2I	8.50321741	39.9971034	0.65938685
C3D	-8.49341787	32.4979791	0.77092456
C3I	8.50102903	32.4979791	0.77092456
C4D	-8.49560625	24.9982441	0.8288152
C4I	8.50321741	24.9982441	0.8288152
C5D	-8.49545041	17.4982511	0.82842016
C5I	8.50306157	17.4982511	0.82842016
C6D	-8.50068563	9.99852248	0.76712273
C6I	8.50829679	9.99852248	0.76712273
D1D	-1.99627731	56.3152108	-0.3479595
D1I	2.00388923	56.3152108	-0.3479595
D2D	-3.9963602	55.1399107	-0.33265054
D2I	4.00397288	55.1399107	-0.33265054
D3D	-5.99644309	53.9646107	-0.31734157
D3I	6.00405652	53.9646107	-0.31734157
D4D	-7.99652598	52.7893106	-0.3020326
D4I	8.00414017	52.7893106	-0.3020326
H1D	-8.49384229	57.4905108	-1.32E-02
H1I	8.50145345	57.4905108	-1.32E-02
H2D	-8.49384229	54.9918908	6.98E-02
H2I	8.50145345	54.9918908	0.06983189
H3D	-8.49384229	52.4932367	0.15185678
H3I	8.50145345	52.4932367	0.15185678
H4D	-8.49384229	49.9942961	0.22462947
H4I	8.50145345	49.9942961	0.22462947
H5D	-8.49384229	47.4953131	0.29593033
H5I	8.50145345	47.4953131	0.29593033
H6D	-8.49385977	44.9960248	0.35557854
H6I	8.50147093	44.9960248	0.35557854
H7D	-8.49384229	42.4965641	0.40750366
H7I	8.50145345	42.4965641	0.40750366





<b>H8D</b>	-8.49384229	39.9971034	0.45942836	<b>2.6D</b>	-10.6134401	54.9918908	-0.20584015	<b>5.1I</b>	2.12865994	47.4953131	-7.91E-02	<b>7.6I</b>	10.6210527	42.4965641	0.13183161
<b>H8I</b>	8.50145345	39.9971034	0.45942836	<b>2.6I</b>	10.6210527	54.9918908	-0.20584015	<b>5.2D</b>	-4.24590033	47.4953131	-0.10411463	<b>7.7D</b>	-12.731268	42.4965641	0.3062739
<b>H9D</b>	-8.49384229	37.4975893	0.50871662	<b>2.7D</b>	-12.731268	54.9918908	-3.14E-02	<b>5.2I</b>	4.2535129	47.4953131	-0.10411463	<b>7.7I</b>	12.7388806	42.4965641	0.3062739
<b>H9I</b>	8.50145345	37.4975893	0.50871662	<b>2.7I</b>	12.7388806	54.9918908	-3.14E-02	<b>5.3D</b>	-6.37075329	47.4953131	-0.1291129	<b>8.1D</b>	-2.12104738	39.9971034	8.44E-02
<b>1.1D</b>	-2.12104738	57.4905108	-0.38826674	<b>20</b>	3.81E-03	9.99852248	0.21668294	<b>5.3I</b>	6.37836586	47.4953131	-0.1291129	<b>8.1I</b>	2.12865994	39.9971034	0.08438166
<b>1.1I</b>	2.12865994	57.4905108	-0.38826674	<b>21</b>	3.81E-03	7.49868138	0.18849637	<b>5.4D</b>	-7.99567544	47.4953131	-0.14822963	<b>8.2D</b>	-4.24590033	39.9971034	5.94E-02
<b>1.2D</b>	-4.24590033	57.4905108	-0.41326501	<b>22</b>	3.81E-03	4.99894803	0.15198374	<b>5.4I</b>	8.00328801	47.4953131	-0.14822963	<b>8.2I</b>	4.2535129	39.9971034	5.94E-02
<b>1.2I</b>	4.2535129	57.4905108	-0.41326501	<b>23</b>	3.81E-03	2.4993721	0.10593814	<b>5.5D</b>	-8.99560625	47.4953131	-0.11294424	<b>8.3D</b>	-6.37075329	39.9971034	3.44E-02
<b>1.3D</b>	-6.37075329	57.4905108	-0.43826328	<b>24</b>	3.81E-03	0	4.99E-02	<b>5.5I</b>	9.00321881	47.4953131	-0.11294424	<b>8.3I</b>	6.37836586	39.9971034	3.44E-02
<b>1.3I</b>	6.37836586	57.4905108	-0.43826328	<b>3.1D</b>	-2.12104738	52.4932367	-0.22318992	<b>5.6D</b>	-10.6134401	47.4953131	2.03E-02	<b>8.4D</b>	-7.99567544	39.9971034	1.53E-02
<b>1.4D</b>	-7.99567544	57.4905108	-0.45738001	<b>3.1I</b>	2.12865994	52.4932367	-0.22318992	<b>5.6I</b>	10.6210527	47.4953131	2.03E-02	<b>8.4I</b>	8.00328801	39.9971034	0.01526839
<b>1.4I</b>	8.00328801	57.4905108	-0.45738001	<b>3.2D</b>	-4.24590033	52.4932367	-0.24818819	<b>5.7D</b>	-12.731268	47.4953131	0.19470058	<b>8.5D</b>	-8.99560625	39.9971034	5.06E-02
<b>1.5D</b>	-8.99560625	57.4905108	-0.42209462	<b>3.2I</b>	4.2535129	52.4932367	-0.24818819	<b>5.7I</b>	12.7388806	47.4953131	0.19470058	<b>8.5I</b>	9.00321881	39.9971034	5.06E-02
<b>1.5I</b>	9.00321881	57.4905108	-0.42209462	<b>3.3D</b>	-6.37075329	52.4932367	-0.27318646	<b>6.1D</b>	-2.12104738	44.9960248	-1.95E-02	<b>8.6D</b>	-10.6134401	39.9971034	0.18375632
<b>1.6D</b>	-10.6134401	57.4905108	-0.28889209	<b>3.3I</b>	6.37836586	52.4932367	-0.27318646	<b>6.1I</b>	2.12865994	44.9960248	-1.95E-02	<b>8.6I</b>	10.6210527	39.9971034	0.18375632
<b>1.6I</b>	10.6210527	57.4905108	-0.28889209	<b>3.4D</b>	-7.99567544	52.4932367	-0.29230319	<b>6.2D</b>	-4.24590033	44.9960248	-0.04446601	<b>8.7D</b>	-12.731268	39.9971034	0.3581986
<b>1.7D</b>	-12.731268	57.4905108	-0.1144498	<b>3.4I</b>	8.00328801	52.4932367	-0.29230319	<b>6.2I</b>	4.2535129	44.9960248	-4.45E-02	<b>8.7I</b>	12.7388806	39.9971034	0.3581986
<b>1.7I</b>	12.7388806	57.4905108	-0.1144498	<b>3.5D</b>	-8.99560625	52.4932367	-0.25701779	<b>6.3D</b>	-6.37075329	44.9960248	-6.95E-02	<b>9.1D</b>	-2.12104738	37.4975893	0.13366992
<b>10</b>	3.81E-03	34.9977842	0.189883	<b>3.5I</b>	9.00321881	52.4932367	-0.25701779	<b>6.3I</b>	6.37836586	44.9960248	-6.95E-02	<b>9.1I</b>	2.12865994	37.4975893	0.13366992
<b>11</b>	3.81E-03	32.4979791	0.22109782	<b>3.6D</b>	-10.6134401	52.4932367	-0.12381527	<b>6.4D</b>	-7.99567544	44.9960248	-8.86E-02	<b>9.2D</b>	-4.24590033	37.4975893	0.10867165
<b>12</b>	3.81E-03	29.9981739	0.25231263	<b>3.6I</b>	10.6210527	52.4932367	-0.12381527	<b>6.4I</b>	8.00328801	44.9960248	-8.86E-02	<b>9.2I</b>	4.2535129	37.4975893	0.10867165
<b>13</b>	3.81E-03	27.498209	0.26556046	<b>3.7D</b>	-12.731268	52.4932367	5.06E-02	<b>6.5D</b>	-8.99560625	44.9960248	-5.33E-02	<b>9.3D</b>	-6.37075329	37.4975893	8.37E-02
<b>14</b>	3.81E-03	24.9982441	0.27880828	<b>3.7I</b>	12.7388806	52.4932367	5.06E-02	<b>6.5I</b>	9.00321881	44.9960248	-5.33E-02	<b>9.3I</b>	6.37836586	37.4975893	8.37E-02
<b>15</b>	3.81E-03	22.4982452	0.28107719	<b>4.1D</b>	-2.12104738	49.9942961	-0.15041722	<b>6.6D</b>	-10.6134401	44.9960248	7.99E-02	<b>9.4D</b>	-7.99567544	37.4975893	6.46E-02
<b>16</b>	3.81E-03	19.9982462	0.2833461	<b>4.1I</b>	2.12865994	49.9942961	-0.15041722	<b>6.6I</b>	10.6210527	44.9960248	7.99E-02	<b>9.4I</b>	8.00328801	37.4975893	6.46E-02
<b>17</b>	3.81E-03	17.4982511	0.27841141	<b>4.2D</b>	-4.24590033	49.9942961	-0.17541549	<b>6.7D</b>	-12.731268	44.9960248	0.2543492	<b>9.5D</b>	-8.99560625	37.4975893	9.98E-02
<b>18</b>	3.81E-03	14.9983073	0.26164046	<b>4.2I</b>	4.2535129	49.9942961	-0.17541549	<b>6.7I</b>	12.7388806	44.9960248	0.2543492	<b>9.5I</b>	9.00321881	37.4975893	9.98E-02
<b>19</b>	3.81E-03	12.4983636	0.24486951	<b>4.3D</b>	-6.37075329	49.9942961	-0.20041376	<b>7.1D</b>	-2.12104738	42.4965641	0.03245696	<b>9.6D</b>	-10.6134401	37.4975893	0.23304457
<b>2.1D</b>	-2.12104738	54.9918908	-0.30521481	<b>4.3I</b>	6.37836586	49.9942961	-0.20041376	<b>7.1I</b>	2.12865994	42.4965641	3.25E-02	<b>9.6I</b>	10.6210527	37.4975893	0.23304457
<b>2.1I</b>	2.12865994	54.9918908	-0.30521481	<b>4.4D</b>	-7.99567544	49.9942961	-0.2195305	<b>7.2D</b>	-4.24590033	42.4965641	7.46E-03	<b>9.7D</b>	-12.731268	37.4975893	0.40748686
<b>2.2D</b>	-4.24590033	54.9918908	-0.33021308	<b>4.4I</b>	8.00328801	49.9942961	-0.2195305	<b>7.2I</b>	4.2535129	42.4965641	7.46E-03	<b>9.7I</b>	12.7388806	37.4975893	0.40748686
<b>2.2I</b>	4.2535129	54.9918908	-0.33021308	<b>4.5D</b>	-8.99560625	49.9942961	-0.1842451	<b>7.3D</b>	-6.37075329	42.4965641	-0.01753958	<b>A18D</b>	-0.88178158	19.5554103	10.8199013
<b>2.3D</b>	-6.37075329	54.9918908	-0.35521135	<b>4.5I</b>	9.00321881	49.9942961	-0.1842451	<b>7.3I</b>	6.37836586	42.4965641	-1.75E-02	<b>A18I</b>	0.88939274	19.5554103	10.8199013
<b>2.3I</b>	6.37836586	54.9918908	-0.35521135	<b>4.6D</b>	-10.6134401	49.9942961	-5.10E-02	<b>7.4D</b>	-7.99567544	42.4965641	-3.67E-02	<b>A19D</b>	-1.77060807	17.3365295	10.0813011
<b>2.4D</b>	-7.99567544	54.9918908	-0.37432808	<b>4.6I</b>	10.6210527	49.9942961	-5.10E-02	<b>7.4I</b>	8.00328801	42.4965641	-3.67E-02	<b>A19I</b>	1.77821923	17.3365295	10.0813011
<b>2.4I</b>	8.00328801	54.9918908	-0.37432808	<b>4.7D</b>	-12.731268	49.9942961	0.12339971	<b>7.5D</b>	-8.99560625	42.4965641	-1.37E-03	<b>A20D</b>	-2.65846808	15.1613862	9.22573217
<b>2.5D</b>	-8.99560625	54.9918908	-0.33904268	<b>4.7I</b>	12.7388806	49.9942961	0.12339971	<b>7.5I</b>	9.00321881	42.4965641	-1.37E-03	<b>A20I</b>	2.66607924	15.1613862	9.22573217
<b>2.5I</b>	9.00321881	54.9918908	-0.33904268	<b>5.1D</b>	-2.12104738	47.4953131	-7.91E-02	<b>7.6D</b>	-10.6134401	42.4965641	0.13183161	<b>A21D</b>	-3.54545083	13.0077485	8.31584475



<b>A21I</b>	3.55306199	13.0077485	8.31584475
<b>A22D</b>	-4.42368664	10.9110424	7.26683603
<b>A22I</b>	4.4312978	10.9110424	7.26683603
<b>A23D</b>	-5.22489613	8.82614958	6.14386846
<b>A23I</b>	5.23250728	8.82614958	6.14386846
<b>A24D</b>	-5.96190579	6.77945549	4.91153836
<b>A24I</b>	5.96951695	6.77945549	4.91153836
<b>A25D</b>	-6.63667377	4.7509148	3.61529351
<b>A25I</b>	6.64428493	4.7509148	3.61529351
<b>A26D</b>	-7.29901075	2.76166634	2.25212645
<b>A26I</b>	7.30662191	2.76166634	2.25212645
<b>A27D</b>	-7.93438267	0.80010261	0.83839403
<b>A27I</b>	7.94199383	0.80010261	0.83839403
<b>A28D</b>	-8.18615317	-1.42E-14	0.24978917
<b>A28I</b>	8.19376433	-1.42E-14	0.24978917
<b>C1DA</b>	-0.53259442	36.3975799	11.0678026
<b>C1IA</b>	0.54020558	36.3975799	11.0678026
<b>C2DA</b>	-0.66619442	33.9180683	11.384497
<b>C2IA</b>	0.67380558	33.9180683	11.384497
<b>C3DA</b>	-0.87619442	31.4188376	11.5623233
<b>C3IA</b>	0.88380558	31.4188376	11.5623233
<b>C4DA</b>	-1.13619442	28.9167258	11.532596
<b>C4IA</b>	1.14380558	28.9167258	11.532596
<b>C5DA</b>	-1.46619442	26.4237103	11.315676
<b>C5IA</b>	1.47380558	26.4237103	11.315676
<b>C6AD</b>	-1.85619442	23.9451969	10.9503848
<b>C6IA</b>	1.86380558	23.9451969	10.9503848
<b>H1.0</b>	3.81E-03	57.4905108	0.18673153
<b>H10D</b>	-8.49384229	34.9977842	0.53993143
<b>H10I</b>	8.50145345	34.9977842	0.53993143
<b>H11D</b>	-8.49384229	32.4979791	0.57114624
<b>H11I</b>	8.50145345	32.4979791	0.57114624
<b>H12D</b>	-8.49384229	29.9981739	0.60236106
<b>H12I</b>	8.50145345	29.9981739	0.60236106
<b>H13D</b>	-8.49384229	27.498209	0.61560888
<b>H13I</b>	8.50145345	27.498209	0.61560888
<b>H14D</b>	-8.49384229	24.9982441	0.62885671
<b>H14I</b>	8.50145345	24.9982441	0.62885671

<b>H15D</b>	-8.49384229	22.4982452	0.63112562
<b>H15I</b>	8.50145345	22.4982452	0.63112562
<b>H16D</b>	-8.49384229	19.9982462	0.63339453
<b>H16I</b>	8.50145345	19.9982462	0.63339453
<b>H17D</b>	-8.49384229	17.4982511	0.62845983
<b>H17I</b>	8.50145345	17.4982511	0.62845983
<b>H18D</b>	-8.49384229	14.9983073	0.61168889
<b>H18I</b>	8.50145345	14.9983073	0.61168889
<b>H19D</b>	-8.49384229	12.4983636	0.59491794
<b>H19I</b>	8.50145345	12.4983636	0.59491794
<b>H2.0</b>	3.81E-03	54.9918908	0.26978346
<b>H20D</b>	-8.49384229	9.99852248	0.56673137
<b>H20I</b>	8.50145345	9.99852248	0.56673137
<b>H21D</b>	-8.49384229	7.49868138	0.5385448
<b>H21I</b>	8.50145345	7.49868138	0.5385448
<b>H22D</b>	-8.49384229	4.99894803	0.50203217
<b>H22I</b>	8.50145345	4.99894803	0.50203217
<b>H23D</b>	-8.49384229	2.4993721	0.45598657
<b>H23I</b>	8.50145345	2.4993721	0.45598657
<b>H24D</b>	-8.49384229	0	0.39995888
<b>H24I</b>	8.50145345	0	0.39995888
<b>H3.0</b>	3.81E-03	52.4932367	0.35180835
<b>H4.0</b>	3.81E-03	49.9942961	0.42458105
<b>H5.0</b>	3.81E-03	47.4953131	0.49588191
<b>H6.0</b>	3.81E-03	44.9960248	0.55553053
<b>H7.0</b>	3.81E-03	42.4965641	0.60745523
<b>H8.0</b>	3.81E-03	39.9971034	0.65937993
<b>H9.0</b>	3.81E-03	37.4975893	0.70866819
<b>10.1D</b>	-2.12104738	34.9977842	0.16488473
<b>10.1I</b>	2.12865994	34.9977842	0.16488473
<b>10.2D</b>	-4.24590033	34.9977842	0.13988646
<b>10.2I</b>	4.2535129	34.9977842	0.13988646
<b>10.3D</b>	-6.37075329	34.9977842	0.11488819
<b>10.3I</b>	6.37836586	34.9977842	0.11488819
<b>10.4D</b>	-7.99567544	34.9977842	9.58E-02
<b>10.4I</b>	8.00328801	34.9977842	9.58E-02
<b>10.5D</b>	-8.99560625	34.9977842	0.13105686
<b>10.5I</b>	9.00321881	34.9977842	0.13105686

<b>10.6D</b>	-10.6134401	34.9977842	0.26425939
<b>10.6I</b>	10.6210527	34.9977842	0.26425939
<b>10.7D</b>	-12.731268	34.9977842	0.43870167
<b>10.7I</b>	12.7388806	34.9977842	0.43870167
<b>11.1D</b>	-2.12104738	32.4979791	0.19609955
<b>11.1I</b>	2.12865994	32.4979791	0.19609955
<b>11.2D</b>	-4.24590033	32.4979791	0.17110128
<b>11.2I</b>	4.2535129	32.4979791	0.17110128
<b>11.3D</b>	-6.37075329	32.4979791	0.14610301
<b>11.3I</b>	6.37836586	32.4979791	0.14610301
<b>11.4D</b>	-7.99567544	32.4979791	0.12698628
<b>11.4I</b>	8.00328801	32.4979791	0.12698628
<b>11.5D</b>	-8.99560625	32.4979791	0.16227167
<b>11.5I</b>	9.00321881	32.4979791	0.16227167
<b>11.6D</b>	-10.6134401	32.4979791	0.2954742
<b>11.6I</b>	10.6210527	32.4979791	0.2954742
<b>11.7D</b>	-12.731268	32.4979791	0.46991649
<b>11.7I</b>	12.7388806	32.4979791	0.46991649
<b>12.1D</b>	-2.12104738	29.9981739	0.22731436
<b>12.1I</b>	2.12865994	29.9981739	0.22731436
<b>12.2D</b>	-4.24590033	29.9981739	0.20231609
<b>12.2I</b>	4.2535129	29.9981739	0.20231609
<b>12.3D</b>	-6.37075329	29.9981739	0.17731782
<b>12.3I</b>	6.37836586	29.9981739	0.17731782
<b>12.4D</b>	-7.99567544	29.9981739	0.15820109
<b>12.4I</b>	8.00328801	29.9981739	0.15820109
<b>12.5D</b>	-8.99560625	29.9981739	0.19348649
<b>12.5I</b>	9.00321881	29.9981739	0.19348649
<b>12.6D</b>	-10.6134401	29.9981739	0.32668901
<b>12.6I</b>	10.6210527	29.9981739	0.32668901
<b>12.7D</b>	-12.731268	29.9981739	0.5011313
<b>12.7I</b>	12.7388806	29.9981739	0.5011313
<b>13.1D</b>	-2.12104738	27.498209	0.24056219
<b>13.1I</b>	2.12865994	27.498209	0.24056219
<b>13.2D</b>	-4.24590033	27.498209	0.21556392
<b>13.2I</b>	4.2535129	27.498209	0.21556392
<b>13.3D</b>	-6.37075329	27.498209	0.19056565
<b>13.3I</b>	6.37836586	27.498209	0.19056565

<b>13.4D</b>	-7.99567544	27.498209	0.17144892
<b>13.4I</b>	8.00328801	27.498209	0.17144892
<b>13.5D</b>	-8.99560625	27.498209	0.20673431
<b>13.5I</b>	9.00321881	27.498209	0.20673431
<b>13.6D</b>	-10.6134401	27.498209	0.33993684
<b>13.6I</b>	10.6210527	27.498209	0.33993684
<b>13.7D</b>	-12.731268	27.498209	0.51437913
<b>13.7I</b>	12.7388806	27.498209	0.51437913
<b>14.1D</b>	-2.12104738	24.9982441	0.25381001
<b>14.1I</b>	2.12865994	24.9982441	0.25381001
<b>14.2D</b>	-4.24590033	24.9982441	0.22881174
<b>14.2I</b>	4.2535129	24.9982441	0.22881174
<b>14.3D</b>	-6.37075329	24.9982441	0.20381347
<b>14.3I</b>	6.37836586	24.9982441	0.20381347
<b>14.4D</b>	-7.99567544	24.9982441	0.18469674
<b>14.4I</b>	8.00328801	24.9982441	0.18469674
<b>14.5D</b>	-8.99560625	24.9982441	0.21998214
<b>14.5I</b>	9.00321881	24.9982441	0.21998214
<b>14.6D</b>	-10.6134401	24.9982441	0.35318467
<b>14.6I</b>	10.6210527	24.9982441	0.35318467
<b>14.7D</b>	-12.731268	24.9982441	0.52762695
<b>14.7I</b>	12.7388806	24.9982441	0.52762695
<b>15.1D</b>	-2.12104738	22.4982452	0.25607892
<b>15.1I</b>	2.12865994	22.4982452	0.25607892
<b>15.2D</b>	-4.24590033	22.4982452	0.23108065
<b>15.2I</b>	4.2535129	22.4982452	0.23108065
<b>15.3D</b>	-6.37075329	22.4982452	0.20608238
<b>15.3I</b>	6.37836586	22.4982452	0.20608238
<b>15.4D</b>	-7.99567544	22.4982452	0.18696565
<b>15.4I</b>	8.00328801	22.4982452	0.18696565
<b>15.5D</b>	-8.99560625	22.4982452	0.22225105
<b>15.5I</b>	9.00321881	22.4982452	0.22225105
<b>15.6D</b>	-10.6134401	22.4982452	0.35545358
<b>15.6I</b>	10.6210527	22.4982452	0.35545358
<b>15.7D</b>	-12.731268	22.4982452	0.52989586
<b>15.7I</b>	12.7388806	22.4982452	0.52989586
<b>16.1D</b>	-2.12104738	19.9982462	0.25834783
<b>16.1I</b>	2.12865994	19.9982462	0.25834783



16.2D	-4.24590033	19.9982462	0.23334956	18.7D	-12.731268	14.9983073	0.51045913	21.5D	-8.99560625	7.49868138	0.12967023	24.3D	-6.37075329	0	-2.51E-02
16.2I	4.2535129	19.9982462	0.23334956	18.7I	12.7388806	14.9983073	0.51045913	21.5I	9.00321881	7.49868138	0.12967023	24.3I	6.37836586	-2.80E-15	-2.51E-02
16.3D	-6.37075329	19.9982462	0.20835129	19.1D	-2.12104738	12.4983636	0.21987124	21.6D	-10.6134401	7.49868138	0.26287276	24.4D	-7.99567544	0	-4.42E-02
16.3I	6.37836586	19.9982462	0.20835129	19.1I	2.12865994	12.4983636	0.21987124	21.6I	10.6210527	7.49868138	0.26287276	24.4I	8.00328801	-3.60E-15	-4.42E-02
16.4D	-7.99567544	19.9982462	0.18923456	19.2D	-4.24590033	12.4983636	0.19487297	21.7D	-12.731268	7.49868138	0.43731504	24.5D	-8.99560625	0	-8.92E-03
16.4I	8.00328801	19.9982462	0.18923456	19.2I	4.2535129	12.4983636	0.19487297	21.7I	12.7388806	7.49868138	0.43731504	24.5I	9.00321881	-4E-15	-8.92E-03
16.5D	-8.99560625	19.9982462	0.22451996	19.3D	-6.37075329	12.4983636	0.1698747	22.1D	-2.12104738	4.99894803	0.12698547	24.6D	-10.6134401	0	0.12428684
16.5I	9.00321881	19.9982462	0.22451996	19.3I	6.37836586	12.4983636	0.1698747	22.1I	2.12865994	4.99894803	0.12698547	24.6I	10.6210527	-4.70E-15	0.12428684
16.6D	-10.6134401	19.9982462	0.35772248	19.4D	-7.99567544	12.4983636	0.15075797	22.2D	-4.24590033	4.99894803	0.1019872	24.7D	-12.731268	0	0.29872912
16.6I	10.6210527	19.9982462	0.35772248	19.4I	8.00328801	12.4983636	0.15075797	22.2I	4.2535129	4.99894803	0.1019872	24.7I	12.7388806	-5.70E-15	0.29872912
16.7D	-12.731268	19.9982462	0.53216477	19.5D	-8.99560625	12.4983636	0.18604337	22.3D	-6.37075329	4.99894803	7.70E-02	H1.1D	-2.12060639	57.4905108	0.13674363
16.7I	12.7388806	19.9982462	0.53216477	19.5I	9.00321881	12.4983636	0.18604337	22.3I	6.37836586	4.99894803	7.70E-02	H1.1I	2.12821755	57.4905108	0.13674363
17.1D	-2.12104738	17.4982511	0.25341314	19.6D	-10.6134401	12.4983636	0.3192459	22.4D	-7.99567544	4.99894803	5.79E-02	H1.2D	-4.24501836	57.4905108	8.68E-02
17.1I	2.12865994	17.4982511	0.25341314	19.6I	10.6210527	12.4983636	0.3192459	22.4I	8.00328801	4.99894803	5.79E-02	H1.2I	4.25262952	57.4905108	8.68E-02
17.2D	-4.24590033	17.4982511	0.22841487	19.7D	-12.731268	12.4983636	0.49368818	22.5D	-8.99560625	4.99894803	9.32E-02	H1.3D	-6.36943033	57.4905108	3.68E-02
17.2I	4.2535129	17.4982511	0.22841487	19.7I	12.7388806	12.4983636	0.49368818	22.5I	9.00321881	4.99894803	9.32E-02	H1.3I	6.37704148	57.4905108	3.68E-02
17.3D	-6.37075329	17.4982511	0.2034166	20.1D	-2.12104738	9.99852248	0.19168467	22.6D	-10.6134401	4.99894803	0.22636012	H1.5I	10.6245618	57.4905108	2.41E-02
17.3I	6.37836586	17.4982511	0.2034166	20.1I	2.12865994	9.99852248	0.19168467	22.6I	10.6210527	4.99894803	0.22636012	H1.6D	-10.6169506	57.4905108	2.41E-02
17.4D	-7.99567544	17.4982511	0.18429987	20.2D	-4.24590033	9.99852248	0.1666864	22.7D	-12.731268	4.99894803	0.40080241	H1.7D	-12.7431818	57.4905108	6.17E-02
17.4I	8.00328801	17.4982511	0.18429987	20.2I	4.2535129	9.99852248	0.1666864	22.7I	12.7388806	4.99894803	0.40080241	H1.7I	12.7507929	57.4905108	6.17E-02
17.5D	-8.99560625	17.4982511	0.21958526	20.3D	-6.37075329	9.99852248	0.14168813	23.1D	-2.12104738	2.4993721	8.09E-02	H10.0	3.81E-03	34.9977842	0.739883
17.5I	9.00321881	17.4982511	0.21958526	20.3I	6.37836586	9.99852248	0.14168813	23.1I	2.12865994	2.4993721	8.09E-02	H11.0	3.81E-03	32.4979791	0.77109782
17.6D	-10.6134401	17.4982511	0.35278779	20.4D	-7.99567544	9.99852248	0.1225714	23.2D	-4.24590033	2.4993721	5.59E-02	H12.0	3.81E-03	29.9981739	0.80231263
17.6I	10.6210527	17.4982511	0.35278779	20.4I	8.00328801	9.99852248	0.1225714	23.2I	4.2535129	2.4993721	5.59E-02	H13.0	3.81E-03	27.498209	0.81556046
17.7D	-12.731268	17.4982511	0.52723008	20.5D	-8.99560625	9.99852248	0.1578568	23.3D	-6.37075329	2.4993721	3.09E-02	H14.0	3.81E-03	24.9982441	0.82880828
17.7I	12.7388806	17.4982511	0.52723008	20.5I	9.00321881	9.99852248	0.1578568	23.3I	6.37836586	2.4993721	3.09E-02	H15.0	3.81E-03	22.4982452	0.83107719
18.1D	-2.12104738	14.9983073	0.23664219	20.6D	-10.6134401	9.99852248	0.29105933	23.4D	-7.99567544	2.4993721	1.18E-02	H16.0	3.81E-03	19.9982462	0.8333461
18.1I	2.12865994	14.9983073	0.23664219	20.6I	10.6210527	9.99852248	0.29105933	23.4I	8.00328801	2.4993721	1.18E-02	H17.0	3.81E-03	17.4982511	0.82841141
18.2D	-4.24590033	14.9983073	0.21164392	20.7D	-12.731268	9.99852248	0.46550161	23.5D	-8.99560625	2.4993721	4.71E-02	H18.0	3.81E-03	14.9983073	0.81164046
18.2I	4.2535129	14.9983073	0.21164392	20.7I	12.7388806	9.99852248	0.46550161	23.5I	9.00321881	2.4993721	4.71E-02	H19.0	3.81E-03	12.4983636	0.79486951
18.3D	-6.37075329	14.9983073	0.18664565	21.1D	-2.12104738	7.49868138	0.1634981	23.6D	-10.6134401	2.4993721	0.18031452	H2.1D	-2.12060639	54.9918908	0.21979557
18.3I	6.37836586	14.9983073	0.18664565	21.1I	2.12865994	7.49868138	0.1634981	23.6I	10.6210527	2.4993721	0.18031452	H2.1I	2.12821755	54.9918908	0.21979557
18.4D	-7.99567544	14.9983073	0.16752892	21.2D	-4.24590033	7.49868138	0.13849983	23.7D	-12.731268	2.4993721	0.35475681	H2.2D	-4.24501836	54.9918908	0.16980767
18.4I	8.00328801	14.9983073	0.16752892	21.2I	4.2535129	7.49868138	0.13849983	23.7I	12.7388806	2.4993721	0.35475681	H2.2I	4.25262952	54.9918908	0.16980767
18.5D	-8.99560625	14.9983073	0.20281432	21.3D	-6.37075329	7.49868138	0.11350156	24.1D	-2.12104738	0	2.49E-02	H2.3D	-6.36943033	54.9918908	0.11981978
18.5I	9.00321881	14.9983073	0.20281432	21.3I	6.37836586	7.49868138	0.11350156	24.1I	2.12865994	-9.00E-16	2.49E-02	H2.3I	6.37704148	54.9918908	0.11981978
18.6D	-10.6134401	14.9983073	0.33601684	21.4D	-7.99567544	7.49868138	9.44E-02	24.2D	-4.24590033	0	-8.61E-05	H2.6D	-10.6185138	54.9918908	0.10719567
18.6I	10.6210527	14.9983073	0.33601684	21.4I	8.00328801	7.49868138	9.44E-02	24.2I	4.2535129	-1.90E-15	-8.61E-05	H2.6I	10.6261249	54.9918908	0.10719567





<b>H2.7D</b>	-12.7431818	54.9918908	0.14475786
<b>H2.7I</b>	12.7507929	54.9918908	0.14475786
<b>H20.0</b>	3.81E-03	9.99852248	0.76668294
<b>H21.0</b>	3.81E-03	7.49868138	0.73849637
<b>H22.0</b>	3.81E-03	4.99894803	0.70198374
<b>H23.0</b>	3.81E-03	2.4993721	0.65593814
<b>H24.0</b>	3.81E-03	0	0.59991045
<b>H3.1D</b>	-2.12060639	52.4932367	0.30182046
<b>H3.1I</b>	2.12821755	52.4932367	0.30182046
<b>H3.2D</b>	-4.24501836	52.4932367	0.25183256
<b>H3.2I</b>	4.25262952	52.4932367	0.25183256
<b>H3.3D</b>	-6.36943033	52.4932367	0.20184467
<b>H3.3I</b>	6.37704148	52.4932367	0.20184467
<b>H3.6D</b>	-10.6185138	52.4932367	0.18922055
<b>H3.6I</b>	10.6261249	52.4932367	0.18922055
<b>H3.7D</b>	-12.7431818	52.4932367	0.22678275
<b>H3.7I</b>	12.7507929	52.4932367	0.22678275
<b>H4.1D</b>	-2.12060639	49.9942961	0.37459315
<b>H4.1I</b>	2.12821755	49.9942961	0.37459315
<b>H4.2D</b>	-4.24501836	49.9942961	0.32460526
<b>H4.2I</b>	4.25262952	49.9942961	0.32460526
<b>H4.3D</b>	-6.36943033	49.9942961	0.27461736
<b>H4.3I</b>	6.37704148	49.9942961	0.27461736
<b>H4.6D</b>	-10.6185138	49.9942961	0.26199325
<b>H4.6I</b>	10.6261249	49.9942961	0.26199325
<b>H4.7D</b>	-12.7431818	49.9942961	0.29955545
<b>H4.7I</b>	12.7507929	49.9942961	0.29955545
<b>H5.1D</b>	-2.12060639	47.4953131	0.44589401
<b>H5.1I</b>	2.12821755	47.4953131	0.44589401
<b>H5.2D</b>	-4.24501836	47.4953131	0.39590612
<b>H5.2I</b>	4.25262952	47.4953131	0.39590612
<b>H5.3D</b>	-6.36943033	47.4953131	0.34591823
<b>H5.3I</b>	6.37704148	47.4953131	0.34591823
<b>H5.6D</b>	-10.6185138	47.4953131	0.33329411
<b>H5.6I</b>	10.6261249	47.4953131	0.33329411
<b>H5.7D</b>	-12.7431818	47.4953131	0.37085631
<b>H5.7I</b>	12.7507929	47.4953131	0.37085631
<b>H6.1D</b>	-2.12060639	44.9960248	0.50554263

<b>H6.1I</b>	2.12821755	44.9960248	0.50554263
<b>H6.2D</b>	-4.24501836	44.9960248	0.45555474
<b>H6.2I</b>	4.25262952	44.9960248	0.45555474
<b>H6.3D</b>	-6.36943033	44.9960248	0.40556685
<b>H6.3I</b>	6.37704148	44.9960248	0.40556685
<b>H6.6D</b>	-10.6185138	44.9960248	0.39294273
<b>H6.6I</b>	10.6261249	44.9960248	0.39294273
<b>H6.7D</b>	-12.7431818	44.9960248	0.43050493
<b>H6.7I</b>	12.7507929	44.9960248	0.43050493
<b>H7.1D</b>	-2.12060639	42.4965641	0.55746734
<b>H7.1I</b>	2.12821755	42.4965641	0.55746734
<b>H7.2D</b>	-4.24501836	42.4965641	0.50747944
<b>H7.2I</b>	4.25262952	42.4965641	0.50747944
<b>H7.3D</b>	-6.36943033	42.4965641	0.45749155
<b>H7.3I</b>	6.37704148	42.4965641	0.45749155
<b>H7.6D</b>	-10.6185138	42.4965641	0.44486743
<b>H7.6I</b>	10.6261249	42.4965641	0.44486743
<b>H7.7D</b>	-12.7431818	42.4965641	0.48242963
<b>H7.7I</b>	12.7507929	42.4965641	0.48242963
<b>H8.1D</b>	-2.12060639	39.9971034	0.60939204
<b>H8.1I</b>	2.12821755	39.9971034	0.60939204
<b>H8.2D</b>	-4.24501836	39.9971034	0.55940415
<b>H8.2I</b>	4.25262952	39.9971034	0.55940415
<b>H8.3D</b>	-6.36943033	39.9971034	0.50941625
<b>H8.3I</b>	6.37704148	39.9971034	0.50941625
<b>H8.6D</b>	-10.6185138	39.9971034	0.49679214
<b>H8.6I</b>	10.6261249	39.9971034	0.49679214
<b>H8.7D</b>	-12.7431818	39.9971034	0.53435434
<b>H8.7I</b>	12.7507929	39.9971034	0.53435434
<b>H9.1D</b>	-2.12060639	37.4975893	0.6586803
<b>H9.1I</b>	2.12821755	37.4975893	0.6586803
<b>H9.2D</b>	-4.24501836	37.4975893	0.6086924
<b>H9.2I</b>	4.25262952	37.4975893	0.6086924
<b>H9.3D</b>	-6.36943033	37.4975893	0.55870451
<b>H9.3I</b>	6.37704148	37.4975893	0.55870451
<b>H9.6D</b>	-10.6185138	37.4975893	0.54608039
<b>H9.6I</b>	10.6261249	37.4975893	0.54608039
<b>H9.7D</b>	-12.7431818	37.4975893	0.58364259

<b>H9.7I</b>	12.7507929	37.4975893	0.58364259
<b>H10.1D</b>	-2.12060639	34.9977842	0.68989511
<b>H10.1I</b>	2.12821755	34.9977842	0.68989511
<b>H10.2D</b>	-4.24501836	34.9977842	0.63990722
<b>H10.2I</b>	4.25262952	34.9977842	0.63990722
<b>H10.3D</b>	-6.36943033	34.9977842	0.58991932
<b>H10.3I</b>	6.37704148	34.9977842	0.58991932
<b>H10.6D</b>	-10.6185138	34.9977842	0.57729521
<b>H10.6I</b>	10.6261249	34.9977842	0.57729521
<b>H10.7D</b>	-12.7431818	34.9977842	0.6148574
<b>H10.7I</b>	12.7507929	34.9977842	0.6148574
<b>H11.1D</b>	-2.12060639	32.4979791	0.72110992
<b>H11.1I</b>	2.12821755	32.4979791	0.72110992
<b>H11.2D</b>	-4.24501836	32.4979791	0.67112203
<b>H11.2I</b>	4.25262952	32.4979791	0.67112203
<b>H11.3D</b>	-6.36943033	32.4979791	0.62113414
<b>H11.3I</b>	6.37704148	32.4979791	0.62113414
<b>H11.6D</b>	-10.6185138	32.4979791	0.60851002
<b>H11.6I</b>	10.6261249	32.4979791	0.60851002
<b>H11.7D</b>	-12.7431818	32.4979791	0.64607222
<b>H11.7I</b>	12.7507929	32.4979791	0.64607222
<b>H12.1D</b>	-2.12060639	29.9981739	0.75232474
<b>H12.1I</b>	2.12821755	29.9981739	0.75232474
<b>H12.2D</b>	-4.24501836	29.9981739	0.70233684
<b>H12.2I</b>	4.25262952	29.9981739	0.70233684
<b>H12.3D</b>	-6.36943033	29.9981739	0.65234895
<b>H12.3I</b>	6.37704148	29.9981739	0.65234895
<b>H12.6D</b>	-10.6185138	29.9981739	0.63972483
<b>H12.6I</b>	10.6261249	29.9981739	0.63972483
<b>H12.7D</b>	-12.7431818	29.9981739	0.67728703
<b>H12.7I</b>	12.7507929	29.9981739	0.67728703
<b>H13.1D</b>	-2.12060639	27.498209	0.76557256
<b>H13.1I</b>	2.12821755	27.498209	0.76557256
<b>H13.2D</b>	-4.24501836	27.498209	0.71558467
<b>H13.2I</b>	4.25262952	27.498209	0.71558467
<b>H13.3D</b>	-6.36943033	27.498209	0.66559678
<b>H13.3I</b>	6.37704148	27.498209	0.66559678
<b>H13.6D</b>	-10.6182796	27.498209	0.65296852

<b>H13.6I</b>	10.6258908	27.498209	0.65296852
<b>H13.7D</b>	-12.7431818	27.498209	0.69053486
<b>H13.7I</b>	12.7507929	27.498209	0.69053486
<b>H14.1D</b>	-2.12060639	24.9982441	0.77882039
<b>H14.1I</b>	2.12821755	24.9982441	0.77882039
<b>H14.2D</b>	-4.24501836	24.9982441	0.7288325
<b>H14.2I</b>	4.25262952	24.9982441	0.7288325
<b>H14.3D</b>	-6.36943033	24.9982441	0.6788446
<b>H14.3I</b>	6.37704148	24.9982441	0.6788446
<b>H14.6D</b>	-10.6185138	24.9982441	0.66622049
<b>H14.6I</b>	10.6261249	24.9982441	0.66622049
<b>H14.7D</b>	-12.7431818	24.9982441	0.70378269
<b>H14.7I</b>	12.7507929	24.9982441	0.70378269
<b>H15.1D</b>	-2.12060639	22.4982452	0.7810893
<b>H15.1I</b>	2.12821755	22.4982452	0.7810893
<b>H15.2D</b>	-4.24501836	22.4982452	0.73110141
<b>H15.2I</b>	4.25262952	22.4982452	0.73110141
<b>H15.3D</b>	-6.36943033	22.4982452	0.68111351
<b>H15.3I</b>	6.37704148	22.4982452	0.68111351
<b>H15.6D</b>	-10.6184737	22.4982452	0.66848869
<b>H15.6I</b>	10.6260848	22.4982452	0.66848869
<b>H15.7D</b>	-12.7431818	22.4982452	0.70605159
<b>H15.7I</b>	12.7507929	22.4982452	0.70605159
<b>H16.1D</b>	-2.12060639	19.9982462	0.78335821
<b>H16.1I</b>	2.12821755	19.9982462	0.78335821
<b>H16.2D</b>	-4.24501836	19.9982462	0.73337031
<b>H16.2I</b>	4.25262952	19.9982462	0.73337031
<b>H16.3D</b>	-6.36943033	19.9982462	0.68338242
<b>H16.3I</b>	6.37704148	19.9982462	0.68338242
<b>H16.6D</b>	-10.6185138	19.9982462	0.6707583
<b>H16.6I</b>	10.6261249	19.9982462	0.6707583
<b>H16.7D</b>	-12.7431818	19.9982462	0.7083205
<b>H16.7I</b>	12.7507929	19.9982462	0.7083205
<b>H17.1D</b>	-2.12060639	17.4982511	0.77842351
<b>H17.1I</b>	2.12821755	17.4982511	0.77842351
<b>H17.2D</b>	-4.24501836	17.4982511	0.72843562
<b>H17.2I</b>	4.25262952	17.4982511	0.72843562
<b>H17.3D</b>	-6.36943033	17.4982511	0.67844773



H17.3I	6.37704148	17.4982511	0.67844773
H17.6D	-10.6185138	17.4982511	0.66582361
H17.6I	10.6261249	17.4982511	0.66582361
H17.7D	-12.7431818	17.4982511	0.70338581
H17.7I	12.7507929	17.4982511	0.70338581
H18.1D	-2.12060717	14.9983073	0.76165255
H18.1I	2.12821833	14.9983073	0.76165255
H18.2D	-4.24501836	14.9983073	0.71166467
H18.2I	4.25262952	14.9983073	0.71166467
H18.3D	-6.36943148	14.9983073	0.66167675
H18.3I	6.37704264	14.9983073	0.66167675
H18.6D	-10.6185138	14.9983073	0.64905266
H18.6I	10.6261249	14.9983073	0.64905266
H18.7D	-12.7431818	14.9983073	0.68661486
H18.7I	12.7507929	14.9983073	0.68661486
H19.1D	-2.12060639	12.4983636	0.74488162
H19.1I	2.12821755	12.4983636	0.74488162
H19.2D	-4.24501836	12.4983636	0.69489372
H19.2I	4.25262952	12.4983636	0.69489372
H19.3D	-6.36943033	12.4983636	0.64490583
H19.3I	6.37704148	12.4983636	0.64490583
H19.6D	-10.6185138	12.4983636	0.63228172
H19.6I	10.6261249	12.4983636	0.63228172
H19.7D	-12.7434782	12.4983636	0.66984915
H19.7I	12.7510893	12.4983636	0.66984915
H20.1D	-2.12060639	9.99852242	0.71669505
H20.1I	2.12821755	9.99852242	0.71669505
H20.2D	-4.24501836	9.99852248	0.66670716
H20.2I	4.25262952	9.99852248	0.66670716
H20.3D	-6.36943033	9.99852248	0.61671926
H20.3I	6.37704148	9.99852248	0.61671926
H20.6D	-10.6185138	9.99852248	0.60409515
H20.6I	10.6261249	9.99852248	0.60409515
H20.7D	-12.7431818	9.99852248	0.64165734
H20.7I	12.7507929	9.99852248	0.64165734
H21.1D	-2.12060639	7.49868138	0.68850848
H21.1I	2.12821755	7.49868138	0.68850848
H21.2D	-4.24501836	7.49868138	0.63852059

H21.2I	4.25262952	7.49868138	0.63852059
H21.3D	-6.36943033	7.49868144	0.58853269
H21.3I	6.37704148	7.49868144	0.58853269
H21.6D	-10.6185138	7.49868138	0.57590858
H21.6I	10.6261249	7.49868138	0.57590858
H21.7D	-12.7434782	7.49868138	0.61347601
H21.7I	12.7510893	7.49868138	0.61347601
H22.1D	-2.12060639	4.99894803	0.65199585
H22.1I	2.12821755	4.99894803	0.65199585
H22.2D	-4.24501836	4.99894803	0.60200795
H22.2I	4.25262952	4.99894803	0.60200795
H22.3D	-6.36942953	4.99894803	0.55202008
H22.3I	6.37704069	4.99894803	0.55202008
H22.6D	-10.6185138	4.99894803	0.53939595
H22.6I	10.6261249	4.99894803	0.53939595
H22.7D	-12.7434782	4.99894803	0.57696338
H22.7I	12.7510893	4.99894803	0.57696338
H23.1D	-2.12060639	2.4993721	0.60595025
H23.1I	2.12821755	2.4993721	0.60595025
H23.2D	-4.24501836	2.4993721	0.55596235
H23.2I	4.25262952	2.4993721	0.55596235
H23.3D	-6.36943033	2.4993721	0.50597446
H23.3I	6.37704148	2.4993721	0.50597446
H23.6D	-10.6188102	2.4993721	0.49335558
H23.6I	10.6264213	2.4993721	0.49335558
H23.7D	-12.7434782	2.4993721	0.53091778
H23.7I	12.7510893	2.4993721	0.53091778
H24.1D	-2.12060639	0	0.54992256
H24.1I	2.12821755	0	0.54992256
H24.2D	-4.24501836	0	0.49993467
H24.2I	4.25262952	0	0.49993467
H24.3D	-6.36943033	0	0.44994677
H24.3I	6.37704148	0	0.44994677
H24.6D	-10.6185138	0	0.43732266
H24.6I	10.6261249	0	0.43732266
H24.7D	-12.7434782	0	0.4748901
H24.7I	12.7510893	0	0.4748901

## I.2. Coacciones de los apoyos

TABLE: Joint Restraint Assignments						
Joint	U1	U2	U3	R1	R2	R3
Text	Yes/ No	Yes/ No	Yes/ No	Yes/ No	Yes/ No	Yes/ No
1D	No	No	Yes	No	No	No
1I	No	No	Yes	No	No	No
A1	Yes	Yes	Yes	Yes	No	No
A28D	Yes	No	Yes	Yes	No	No
A28I	No	No	Yes	Yes	No	No

## I.3. Puntos de unión de las barras

TABLE: Connectivity - Frame			
Frame	JointI	JointJ	Length
Text	Text	Text	m
T1D	C1DA	C1D	17.27349046
T1I	C1IA	C1I	17.27349046
T2D	C2DA	C2D	14.60418926
T2I	C2IA	C2I	14.60418926
T3D	C3DA	C3D	13.25295913
T3I	C3IA	C3I	13.25295913
T4D	C4DA	C4D	13.567843
T4I	C4IA	C4I	13.567843
T5D	C5DA	C5D	15.46146163
T5I	C5IA	C5I	15.46146163
T6D	C6AD	C6D	18.50291374
T6I	C6IA	C6I	18.50291374
A1-2	A1	A2	2.500565021
A2-3	A2	A3	2.504733498
A3-4	A3	A4	2.503070531
A4-5	A4	A5	2.501400637
A5-6	A5	A6	2.506663877
A6-7	A6	A7	2.50388014
A7-8	A7	A8	2.501093285
A8-9	A8	A9	2.502543863

A9-10	A9	A10	2.501379801
D1-2D	D2D	D1D	2.319891408
D1-2I	D2I	D1I	2.319892063
D2-3D	D3D	D2D	2.319891408
D2-3I	D3I	D2I	2.319892063
D3-4D	D4D	D3D	2.319891408
D3-4I	D4I	D3I	2.319892063
1J5-6D	1.6D	1.5D	1.623308146
1J5-6I	1.6I	1.5I	1.623308146
1J6-7D	1.6D	1.7D	2.125
1J6-7I	1.6I	1.7I	2.125
1T0-1D	1	1.1D	2.125
1T0-1I	1	1.1I	2.125001407
1T1-2D	1.1D	1.2D	2.125
1T1-2I	1.1I	1.2I	2.125
1T2-3D	1.2D	1.3D	2.125
1T2-3I	1.2I	1.3I	2.125
1T3-4D	1.3D	1.4D	1.625034598
1T3-4I	1.3I	1.4I	1.625034598
2J5-6D	2.6D	2.5D	1.623308146
2J5-6I	2.6I	2.5I	1.623308146
2J6-7D	2.6D	2.7D	2.125
2J6-7I	2.6I	2.7I	2.125
2T0-1D	2	2.1D	2.125
2T0-1I	2	2.1I	2.125001407
2T1-2D	2.1D	2.2D	2.125
2T1-2I	2.1I	2.2I	2.125
2T2-3D	2.2D	2.3D	2.125
2T2-3I	2.2I	2.3I	2.125
2T3-4D	2.3D	2.4D	1.625034598
2T3-4I	2.3I	2.4I	1.625034598
3J5-6D	3.6D	3.5D	1.623308146
3J5-6I	3.6I	3.5I	1.623308146
3J6-7D	3.6D	3.7D	2.125
3J6-7I	3.6I	3.7I	2.125
3T0-1D	3	3.1D	2.125
3T0-1I	3	3.1I	2.125001407
3T1-2D	3.1D	3.2D	2.125





3T1-2I	3.1I	3.2I	2.125
3T2-3D	3.2D	3.3D	2.125
3T2-3I	3.2I	3.3I	2.125
3T3-4D	3.3D	3.4D	1.625034598
3T3-4I	3.3I	3.4I	1.625034598
4J5-6D	4.6D	4.5D	1.623308146
4J5-6I	4.6I	4.5I	1.623308146
4J6-7D	4.6D	4.7D	2.125
4J6-7I	4.6I	4.7I	2.125
4T0-1D	4	4.1D	2.125
4T0-1I	4	4.1I	2.125001407
4T1-2D	4.1D	4.2D	2.125
4T1-2I	4.1I	4.2I	2.125
4T2-3D	4.2D	4.3D	2.125
4T2-3I	4.2I	4.3I	2.125
4T3-4D	4.3D	4.4D	1.625034598
4T3-4I	4.3I	4.4I	1.625034598
5J5-6D	5.6D	5.5D	1.623308146
5J5-6I	5.6I	5.5I	1.623308146
5J6-7D	5.6D	5.7D	2.125
5J6-7I	5.6I	5.7I	2.125
5T0-1D	5	5.1D	2.125
5T0-1I	5	5.1I	2.125001407
5T1-2D	5.1D	5.2D	2.125
5T1-2I	5.1I	5.2I	2.125
5T2-3D	5.2D	5.3D	2.125
5T2-3I	5.2I	5.3I	2.125
5T3-4D	5.3D	5.4D	1.625034598
5T3-4I	5.3I	5.4I	1.625034598
6J5-6D	6.6D	6.5D	1.623308146
6J5-6I	6.6I	6.5I	1.623308146
6J6-7D	6.6D	6.7D	2.125
6J6-7I	6.6I	6.7I	2.125
6T0-1D	6	6.1D	2.125
6T0-1I	6	6.1I	2.125001407
6T1-2D	6.1D	6.2D	2.125
6T1-2I	6.1I	6.2I	2.125
6T2-3D	6.2D	6.3D	2.125

6T2-3I	6.2I	6.3I	2.125
6T3-4D	6.3D	6.4D	1.625034598
6T3-4I	6.3I	6.4I	1.625034598
7J5-6D	7.6D	7.5D	1.623308146
7J5-6I	7.6I	7.5I	1.623308146
7J6-7D	7.6D	7.7D	2.125
7J6-7I	7.6I	7.7I	2.125
7T0-1D	7	7.1D	2.125
7T0-1I	7	7.1I	2.125001407
7T1-2D	7.1D	7.2D	2.125
7T1-2I	7.1I	7.2I	2.125
7T2-3D	7.2D	7.3D	2.125
7T2-3I	7.2I	7.3I	2.125
7T3-4D	7.3D	7.4D	1.625034598
7T3-4I	7.3I	7.4I	1.625034598
8J5-6D	8.6D	8.5D	1.623308146
8J5-6I	8.6I	8.5I	1.623308146
8J6-7D	8.6D	8.7D	2.125
8J6-7I	8.6I	8.7I	2.125
8T0-1D	8	8.1D	2.125
8T0-1I	8	8.1I	2.125001407
8T1-2D	8.1D	8.2D	2.125
8T1-2I	8.1I	8.2I	2.125
8T2-3D	8.2D	8.3D	2.125
8T2-3I	8.2I	8.3I	2.125
8T3-4D	8.3D	8.4D	1.625034598
8T3-4I	8.3I	8.4I	1.625034598
9J5-6D	9.6D	9.5D	1.623308146
9J5-6I	9.6I	9.5I	1.623308146
9J6-7D	9.6D	9.7D	2.125
9J6-7I	9.6I	9.7I	2.125
9T0-1D	9	9.1D	2.125
9T0-1I	9	9.1I	2.125001407
9T1-2D	9.1D	9.2D	2.125
9T1-2I	9.1I	9.2I	2.125
9T2-3D	9.2D	9.3D	2.125
9T2-3I	9.2I	9.3I	2.125
9T3-4D	9.3D	9.4D	1.625034598

9T3-4I	9.3I	9.4I	1.625034598
A10-11	A10	A11	2.506013508
A11-12	A11	A12	2.502267089
A12-13	A12	A13	2.504859218
A13-14	A13	A14	2.502130727
A14-15	A14	A15	2.500013131
A15-16	A15	A16	2.502449696
A16-17	A16	A17	2.169190823
L1D-2D	1D	2D	2.5
L1I-2I	1I	2I	2.5
L2D-3D	2D	3D	2.499999628
L2I-3I	2I	3I	2.499999628
L3D-4D	3D	4D	2.50000033
L3I-4I	3I	4I	2.50000033
L4D-5D	4D	5D	2.5
L4I-5I	4I	5I	2.5
L5D-6D	5D	6D	2.5
L5I-6I	5I	6I	2.5
L6D-7D	6D	7D	2.5
L6I-7I	6I	7I	2.5
L7D-8D	7D	8D	2.5
L7I-8I	7I	8I	2.5
L8D-9D	8D	9D	2.5
L8I-9I	8I	9I	2.5
10J5-6D	10.6D	10.5D	1.623308146
10J5-6I	10.6I	10.5I	1.623308146
10J6-7D	10.6D	10.7D	2.125
10J6-7I	10.6I	10.7I	2.125
10T0-1D	10	10.1D	2.125
10T0-1I	10	10.1I	2.125001407
10T1-2D	10.1D	10.2D	2.125
10T1-2I	10.1I	10.2I	2.125
10T2-3D	10.2D	10.3D	2.125
10T2-3I	10.2I	10.3I	2.125
10T3-4D	10.3D	10.4D	1.625034598
10T3-4I	10.3I	10.4I	1.625034598
11J5-6D	11.6D	11.5D	1.623308146
11J5-6I	11.6I	11.5I	1.623308146

11J6-7D	11.6D	11.7D	2.125
11J6-7I	11.6I	11.7I	2.125
11T0-1D	11	11.1D	2.125
11T0-1I	11	11.1I	2.125001407
11T1-2D	11.1D	11.2D	2.125
11T1-2I	11.1I	11.2I	2.125
11T2-3D	11.2D	11.3D	2.125
11T2-3I	11.2I	11.3I	2.125
11T3-4D	11.3D	11.4D	1.625034598
11T3-4I	11.3I	11.4I	1.625034598
12J5-6D	12.6D	12.5D	1.623308146
12J5-6I	12.6I	12.5I	1.623308146
12J6-7D	12.6D	12.7D	2.125
12J6-7I	12.6I	12.7I	2.125
12T0-1D	12	12.1D	2.125
12T0-1I	12	12.1I	2.125001407
12T1-2D	12.1D	12.2D	2.125
12T1-2I	12.1I	12.2I	2.125
12T2-3D	12.2D	12.3D	2.125
12T2-3I	12.2I	12.3I	2.125
12T3-4D	12.3D	12.4D	1.625034598
12T3-4I	12.3I	12.4I	1.625034598
13J5-6D	13.6D	13.5D	1.623308146
13J5-6I	13.6I	13.5I	1.623308146
13J6-7D	13.6D	13.7D	2.125
13J6-7I	13.6I	13.7I	2.125
13T0-1D	13	13.1D	2.125
13T0-1I	13	13.1I	2.125001407
13T1-2D	13.1D	13.2D	2.125
13T1-2I	13.1I	13.2I	2.125
13T2-3D	13.2D	13.3D	2.125
13T2-3I	13.2I	13.3I	2.125
13T3-4D	13.3D	13.4D	1.625034598
13T3-4I	13.3I	13.4I	1.625034598
14J5-6D	14.6D	14.5D	1.623308146
14J5-6I	14.6I	14.5I	1.623308146
14J6-7D	14.6D	14.7D	2.125
14J6-7I	14.6I	14.7I	2.125



14T0-1D	14	14.1D	2.125
14T0-1I	14	14.1I	2.125001407
14T1-2D	14.1D	14.2D	2.125
14T1-2I	14.1I	14.2I	2.125
14T2-3D	14.2D	14.3D	2.125
14T2-3I	14.2I	14.3I	2.125
14T3-4D	14.3D	14.4D	1.625034598
14T3-4I	14.3I	14.4I	1.625034598
15J5-6D	15.6D	15.5D	1.623308146
15J5-6I	15.6I	15.5I	1.623308146
15J6-7D	15.6D	15.7D	2.125
15J6-7I	15.6I	15.7I	2.125
15T0-1D	15	15.1D	2.125
15T0-1I	15	15.1I	2.125001407
15T1-2D	15.1D	15.2D	2.125
15T1-2I	15.1I	15.2I	2.125
15T2-3D	15.2D	15.3D	2.125
15T2-3I	15.2I	15.3I	2.125
15T3-4D	15.3D	15.4D	1.625034598
15T3-4I	15.3I	15.4I	1.625034598
16J5-6D	16.6D	16.5D	1.623308146
16J5-6I	16.6I	16.5I	1.623308146
16J6-7D	16.6D	16.7D	2.125
16J6-7I	16.6I	16.7I	2.125
16T0-1D	16	16.1D	2.125
16T0-1I	16	16.1I	2.125001407
16T1-2D	16.1D	16.2D	2.125
16T1-2I	16.1I	16.2I	2.125
16T2-3D	16.2D	16.3D	2.125
16T2-3I	16.2I	16.3I	2.125
16T3-4D	16.3D	16.4D	1.625034598
16T3-4I	16.3I	16.4I	1.625034598
17J5-6D	17.6D	17.5D	1.623308146
17J5-6I	17.6I	17.5I	1.623308146
17J6-7D	17.6D	17.7D	2.125
17J6-7I	17.6I	17.7I	2.125
17T0-1D	17	17.1D	2.125
17T0-1I	17	17.1I	2.125001407

17T1-2D	17.1D	17.2D	2.125
17T1-2I	17.1I	17.2I	2.125
17T2-3D	17.2D	17.3D	2.125
17T2-3I	17.2I	17.3I	2.125
17T3-4D	17.3D	17.4D	1.625034598
17T3-4I	17.3I	17.4I	1.625034598
18J5-6D	18.6D	18.5D	1.623308146
18J5-6I	18.6I	18.5I	1.623308146
18J6-7D	18.6D	18.7D	2.125
18J6-7I	18.6I	18.7I	2.125
18T0-1D	18	18.1D	2.125
18T0-1I	18	18.1I	2.125001407
18T1-2D	18.1D	18.2D	2.125
18T1-2I	18.1I	18.2I	2.125
18T2-3D	18.2D	18.3D	2.125
18T2-3I	18.2I	18.3I	2.125
18T3-4D	18.3D	18.4D	1.625034598
18T3-4I	18.3I	18.4I	1.625034598
19J5-6D	19.6D	19.5D	1.623308146
19J5-6I	19.6I	19.5I	1.623308146
19J6-7D	19.6D	19.7D	2.125
19J6-7I	19.6I	19.7I	2.125
19T0-1D	19	19.1D	2.125
19T0-1I	19	19.1I	2.125001407
19T1-2D	19.1D	19.2D	2.125
19T1-2I	19.1I	19.2I	2.125
19T2-3D	19.2D	19.3D	2.125
19T2-3I	19.2I	19.3I	2.125
19T3-4D	19.3D	19.4D	1.625034598
19T3-4I	19.3I	19.4I	1.625034598
20J5-6D	20.6D	20.5D	1.623308146
20J5-6I	20.6I	20.5I	1.623308146
20J6-7D	20.6D	20.7D	2.125
20J6-7I	20.6I	20.7I	2.125
20T0-1D	20	20.1D	2.125
20T0-1I	20	20.1I	2.125001407
20T1-2D	20.1D	20.2D	2.125
20T1-2I	20.1I	20.2I	2.125

20T2-3D	20.2D	20.3D	2.125
20T2-3I	20.2I	20.3I	2.125
20T3-4D	20.3D	20.4D	1.625034598
20T3-4I	20.3I	20.4I	1.625034598
21J5-6D	21.6D	21.5D	1.623308146
21J5-6I	21.6I	21.5I	1.623308146
21J6-7D	21.6D	21.7D	2.125
21J6-7I	21.6I	21.7I	2.125
21T0-1D	21	21.1D	2.125
21T0-1I	21	21.1I	2.125001407
21T1-2D	21.1D	21.2D	2.125
21T1-2I	21.1I	21.2I	2.125
21T2-3D	21.2D	21.3D	2.125
21T2-3I	21.2I	21.3I	2.125
21T3-4D	21.3D	21.4D	1.625034598
21T3-4I	21.3I	21.4I	1.625034598
22J5-6D	22.6D	22.5D	1.623308146
22J5-6I	22.6I	22.5I	1.623308146
22J6-7D	22.6D	22.7D	2.125
22J6-7I	22.6I	22.7I	2.125
22T0-1D	22	22.1D	2.125
22T0-1I	22	22.1I	2.125001407
22T1-2D	22.1D	22.2D	2.125
22T1-2I	22.1I	22.2I	2.125
22T2-3D	22.2D	22.3D	2.125
22T2-3I	22.2I	22.3I	2.125
22T3-4D	22.3D	22.4D	1.625034598
22T3-4I	22.3I	22.4I	1.625034598
23J5-6D	23.6D	23.5D	1.623308146
23J5-6I	23.6I	23.5I	1.623308146
23J6-7D	23.6D	23.7D	2.125
23J6-7I	23.6I	23.7I	2.125
23T0-1D	23	23.1D	2.125
23T0-1I	23	23.1I	2.125001407
23T1-2D	23.1D	23.2D	2.125
23T1-2I	23.1I	23.2I	2.125
23T2-3D	23.2D	23.3D	2.125
23T2-3I	23.2I	23.3I	2.125

23T3-4D	23.3D	23.4D	1.625034598
23T3-4I	23.3I	23.4I	1.625034598
24J5-6D	24.6D	24.5D	1.623308146
24J5-6I	24.6I	24.5I	1.623308146
24J6-7D	24.6D	24.7D	2.125
24J6-7I	24.6I	24.7I	2.125
24T0-1D	24	24.1D	2.125
24T0-1I	24	24.1I	2.125001407
24T1-2D	24.1D	24.2D	2.125
24T1-2I	24.1I	24.2I	2.125
24T2-3D	24.2D	24.3D	2.125
24T2-3I	24.2I	24.3I	2.125
24T3-4D	24.3D	24.4D	1.625034598
24T3-4I	24.3I	24.4I	1.625034598
A17-18D	A17	A18D	2.500806012
A17-18I	A17	A18I	2.500806012
A18-19D	A18D	A19D	2.501794295
A18-19I	A18I	A19I	2.501794295
A19-20D	A19D	A20D	2.50030837
A19-20I	A19I	A20I	2.50030837
A20-21D	A20D	A21D	2.500557771
A20-21I	A20I	A21I	2.500557771
A21-22D	A21D	A22D	2.503576168
A21-22I	A21I	A22I	2.503576168
A22-23D	A22D	A23D	2.499954212
A22-23I	A22I	A23I	2.499954212
A23-24D	A23D	A24D	2.500155473
A23-24I	A23I	A24I	2.500155473
A24-25D	A24D	A25D	2.500107975
A24-25I	A24I	A25I	2.500107975
A25-26D	A25D	A26D	2.500804696
A25-26I	A25I	A26I	2.500804696
A26-27D	A26D	A27D	2.500013823
A26-27I	A26I	A27I	2.500013823
D1.0-1D	D1D	1	2.319891408
D1.0-1I	D1I	1	2.319892063
L12-13D	12D	13D	2.5
L9D-10D	9D	10D	2.5



L9I-10I	9I	10I	2.5
L10D-11D	10D	11D	2.5
L10I-11I	10I	11I	2.5
L11D-12D	11D	12D	2.5
L11I-12I	11I	12I	2.5
L12I-13I	12I	13I	2.5
L13D-14D	13D	14D	2.5
L13I-14I	13I	14I	2.5
L14D-15D	14D	15D	2.5
L14I-15I	14I	15I	2.5
L15D-16D	15D	16D	2.5
L15I-16I	15I	16I	2.5
L16D-17D	16D	17D	2.499999999
L16I-17I	16I	17I	2.499999999
L17D-18D	17D	18D	2.5
L17I-18I	17I	18I	2.5
L18D-19D	18D	19D	2.5
L18I-19I	18I	19I	2.5
L19D-20D	19D	20D	2.5
L19I-20I	19I	20I	2.5
L20D-21D	20D	21D	2.5
L20I-21I	20I	21I	2.5
L21D-22D	21D	22D	2.5
L21I-22I	21I	22I	2.5
L22D-23D	22D	23D	2.5
L22I-23I	22I	23I	2.5
L23D-24D	23D	24D	2.5
L23I-24I	23I	24I	2.5

T3D	Circle	Tirantes
T3I	Circle	Tirantes
T4D	Circle	Tirantes
T4I	Circle	Tirantes
T5D	Circle	Tirantes
T5I	Circle	Tirantes
T6D	Circle	Tirantes
T6I	Circle	Tirantes
A1-2	Nonprismatic	1-2
A2-3	Nonprismatic	2-3
A3-4	Nonprismatic	3-4
A4-5	Nonprismatic	4-5
A5-6	Nonprismatic	5-6
A6-7	Nonprismatic	6-7
A7-8	Nonprismatic	7-8
A8-9	Nonprismatic	8-9
A9-10	Nonprismatic	9-10
D1-2D	Nonprismatic	Viga Inclínada 2-3
D1-2I	Nonprismatic	Viga Inclínada 2-3
D2-3D	Nonprismatic	Viga Inclínada 3-4
D2-3I	Nonprismatic	Viga Inclínada 3-4
D3-4D	Nonprismatic	Viga Inclínada 4-5
D3-4I	Nonprismatic	Viga Inclínada 4-5
1J5-6D	Nonprismatic	Jabalcon 1-2
1J5-6I	Nonprismatic	Jabalcon 1-2
1J6-7D	Nonprismatic	Jabalcon 2-3
1J6-7I	Nonprismatic	Jabalcon 2-3
1T0-1D	Nonprismatic	Viga Transversal 1-2
1T0-1I	Nonprismatic	Viga Transversal 1-2
1T1-2D	Nonprismatic	Viga Transversal 2-3
1T1-2I	Nonprismatic	Viga Transversal 2-3
1T2-3D	Nonprismatic	Viga Transversal 3-4
1T2-3I	Nonprismatic	Viga Transversal 3-4
1T3-4D	Nonprismatic	Viga Transversal 4-5
1T3-4I	Nonprismatic	Viga Transversal 4-5
2J5-6D	Nonprismatic	Jabalcon 1-2
2J5-6I	Nonprismatic	Jabalcon 1-2
2J6-7D	Nonprismatic	Jabalcon 2-3

2J6-7I	Nonprismatic	Jabalcon 2-3
2T0-1D	Nonprismatic	Viga Transversal 1-2
2T0-1I	Nonprismatic	Viga Transversal 1-2
2T1-2D	Nonprismatic	Viga Transversal 2-3
2T1-2I	Nonprismatic	Viga Transversal 2-3
2T2-3D	Nonprismatic	Viga Transversal 3-4
2T2-3I	Nonprismatic	Viga Transversal 3-4
2T3-4D	Nonprismatic	Viga Transversal 4-5
2T3-4I	Nonprismatic	Viga Transversal 4-5
3J5-6D	Nonprismatic	Jabalcon 1-2
3J5-6I	Nonprismatic	Jabalcon 1-2
3J6-7D	Nonprismatic	Jabalcon 2-3
3J6-7I	Nonprismatic	Jabalcon 2-3
3T0-1D	Nonprismatic	Viga Transversal 1-2
3T0-1I	Nonprismatic	Viga Transversal 1-2
3T1-2D	Nonprismatic	Viga Transversal 2-3
3T1-2I	Nonprismatic	Viga Transversal 2-3
3T2-3D	Nonprismatic	Viga Transversal 3-4
3T2-3I	Nonprismatic	Viga Transversal 3-4
3T3-4D	Nonprismatic	Viga Transversal 4-5
3T3-4I	Nonprismatic	Viga Transversal 4-5
4J5-6D	Nonprismatic	Jabalcon 1-2
4J5-6I	Nonprismatic	Jabalcon 1-2
4J6-7D	Nonprismatic	Jabalcon 2-3
4J6-7I	Nonprismatic	Jabalcon 2-3
4T0-1D	Nonprismatic	Viga Transversal 1-2
4T0-1I	Nonprismatic	Viga Transversal 1-2
4T1-2D	Nonprismatic	Viga Transversal 2-3
4T1-2I	Nonprismatic	Viga Transversal 2-3
4T2-3D	Nonprismatic	Viga Transversal 3-4
4T2-3I	Nonprismatic	Viga Transversal 3-4
4T3-4D	Nonprismatic	Viga Transversal 4-5
4T3-4I	Nonprismatic	Viga Transversal 4-5
5J5-6D	Nonprismatic	Jabalcon 1-2
5J5-6I	Nonprismatic	Jabalcon 1-2
5J6-7D	Nonprismatic	Jabalcon 2-3
5J6-7I	Nonprismatic	Jabalcon 2-3
5T0-1D	Nonprismatic	Viga Transversal 1-2

5T0-1I	Nonprismatic	Viga Transversal 1-2
5T1-2D	Nonprismatic	Viga Transversal 2-3
5T1-2I	Nonprismatic	Viga Transversal 2-3
5T2-3D	Nonprismatic	Viga Transversal 3-4
5T2-3I	Nonprismatic	Viga Transversal 3-4
5T3-4D	Nonprismatic	Viga Transversal 4-5
5T3-4I	Nonprismatic	Viga Transversal 4-5
6J5-6D	Nonprismatic	Jabalcon 1-2
6J5-6I	Nonprismatic	Jabalcon 1-2
6J6-7D	Nonprismatic	Jabalcon 2-3
6J6-7I	Nonprismatic	Jabalcon 2-3
6T0-1D	Nonprismatic	Viga Transversal 1-2
6T0-1I	Nonprismatic	Viga Transversal 1-2
6T1-2D	Nonprismatic	Viga Transversal 2-3
6T1-2I	Nonprismatic	Viga Transversal 2-3
6T2-3D	Nonprismatic	Viga Transversal 3-4
6T2-3I	Nonprismatic	Viga Transversal 3-4
6T3-4D	Nonprismatic	Viga Transversal 4-5
6T3-4I	Nonprismatic	Viga Transversal 4-5
7J5-6D	Nonprismatic	Jabalcon 1-2
7J5-6I	Nonprismatic	Jabalcon 1-2
7J6-7D	Nonprismatic	Jabalcon 2-3
7J6-7I	Nonprismatic	Jabalcon 2-3
7T0-1D	Nonprismatic	Viga Transversal 1-2
7T0-1I	Nonprismatic	Viga Transversal 1-2
7T1-2D	Nonprismatic	Viga Transversal 2-3
7T1-2I	Nonprismatic	Viga Transversal 2-3
7T2-3D	Nonprismatic	Viga Transversal 3-4
7T2-3I	Nonprismatic	Viga Transversal 3-4
7T3-4D	Nonprismatic	Viga Transversal 4-5
7T3-4I	Nonprismatic	Viga Transversal 4-5
8J5-6D	Nonprismatic	Jabalcon 1-2
8J5-6I	Nonprismatic	Jabalcon 1-2
8J6-7D	Nonprismatic	Jabalcon 2-3
8J6-7I	Nonprismatic	Jabalcon 2-3
8T0-1D	Nonprismatic	Viga Transversal 1-2
8T0-1I	Nonprismatic	Viga Transversal 1-2
8T1-2D	Nonprismatic	Viga Transversal 2-3

## I.4. Sección asignada a cada barra

TABLE: Frame Section Assignments		
Frame	SectionType	AnalSect
Text	Text	Text
T1D	Circle	Tirantes
T1I	Circle	Tirantes
T2D	Circle	Tirantes
T2I	Circle	Tirantes



8T1-2I	Nonprismatic	Viga Transversal 2-3
8T2-3D	Nonprismatic	Viga Transversal 3-4
8T2-3I	Nonprismatic	Viga Transversal 3-4
8T3-4D	Nonprismatic	Viga Transversal 4-5
8T3-4I	Nonprismatic	Viga Transversal 4-5
9J5-6D	Nonprismatic	Jabalcon 1-2
9J5-6I	Nonprismatic	Jabalcon 1-2
9J6-7D	Nonprismatic	Jabalcon 2-3
9J6-7I	Nonprismatic	Jabalcon 2-3
9T0-1D	Nonprismatic	Viga Transversal 1-2
9T0-1I	Nonprismatic	Viga Transversal 1-2
9T1-2D	Nonprismatic	Viga Transversal 2-3
9T1-2I	Nonprismatic	Viga Transversal 2-3
9T2-3D	Nonprismatic	Viga Transversal 3-4
9T2-3I	Nonprismatic	Viga Transversal 3-4
9T3-4D	Nonprismatic	Viga Transversal 4-5
9T3-4I	Nonprismatic	Viga Transversal 4-5
A10-11	Nonprismatic	10-11
A11-12	Nonprismatic	11-12
A12-13	Nonprismatic	12-13
A13-14	Nonprismatic	13-14
A14-15	Nonprismatic	14-15
A15-16	Nonprismatic	15-16
A16-17	Nonprismatic	16-17
L1D-2D	Box/Tube	Cajon Longitudinal
L1I-2I	Box/Tube	Cajon Longitudinal
L2D-3D	Box/Tube	Cajon Longitudinal
L2I-3I	Box/Tube	Cajon Longitudinal
L3D-4D	Box/Tube	Cajon Longitudinal
L3I-4I	Box/Tube	Cajon Longitudinal
L4D-5D	Box/Tube	Cajon Longitudinal
L4I-5I	Box/Tube	Cajon Longitudinal
L5D-6D	Box/Tube	Cajon Longitudinal
L5I-6I	Box/Tube	Cajon Longitudinal
L6D-7D	Box/Tube	Cajon Longitudinal
L6I-7I	Box/Tube	Cajon Longitudinal
L7D-8D	Box/Tube	Cajon Longitudinal
L7I-8I	Box/Tube	Cajon Longitudinal

L8D-9D	Box/Tube	Cajon Longitudinal
L8I-9I	Box/Tube	Cajon Longitudinal
10J5-6D	Nonprismatic	Jabalcon 1-2
10J5-6I	Nonprismatic	Jabalcon 1-2
10J6-7D	Nonprismatic	Jabalcon 2-3
10J6-7I	Nonprismatic	Jabalcon 2-3
10T0-1D	Nonprismatic	Viga Transversal 1-2
10T0-1I	Nonprismatic	Viga Transversal 1-2
10T1-2D	Nonprismatic	Viga Transversal 2-3
10T1-2I	Nonprismatic	Viga Transversal 2-3
10T2-3D	Nonprismatic	Viga Transversal 3-4
10T2-3I	Nonprismatic	Viga Transversal 3-4
10T3-4D	Nonprismatic	Viga Transversal 4-5
10T3-4I	Nonprismatic	Viga Transversal 4-5
11J5-6D	Nonprismatic	Jabalcon 1-2
11J5-6I	Nonprismatic	Jabalcon 1-2
11J6-7D	Nonprismatic	Jabalcon 2-3
11J6-7I	Nonprismatic	Jabalcon 2-3
11T0-1D	Nonprismatic	Viga Transversal 1-2
11T0-1I	Nonprismatic	Viga Transversal 1-2
11T1-2D	Nonprismatic	Viga Transversal 2-3
11T1-2I	Nonprismatic	Viga Transversal 2-3
11T2-3D	Nonprismatic	Viga Transversal 3-4
11T2-3I	Nonprismatic	Viga Transversal 3-4
11T3-4D	Nonprismatic	Viga Transversal 4-5
11T3-4I	Nonprismatic	Viga Transversal 4-5
12J5-6D	Nonprismatic	Jabalcon 1-2
12J5-6I	Nonprismatic	Jabalcon 1-2
12J6-7D	Nonprismatic	Jabalcon 2-3
12J6-7I	Nonprismatic	Jabalcon 2-3
12T0-1D	Nonprismatic	Viga Transversal 1-2
12T0-1I	Nonprismatic	Viga Transversal 1-2
12T1-2D	Nonprismatic	Viga Transversal 2-3
12T1-2I	Nonprismatic	Viga Transversal 2-3
12T2-3D	Nonprismatic	Viga Transversal 3-4
12T2-3I	Nonprismatic	Viga Transversal 3-4
12T3-4D	Nonprismatic	Viga Transversal 4-5
12T3-4I	Nonprismatic	Viga Transversal 4-5

13J5-6D	Nonprismatic	Jabalcon 1-2
13J5-6I	Nonprismatic	Jabalcon 1-2
13J6-7D	Nonprismatic	Jabalcon 2-3
13J6-7I	Nonprismatic	Jabalcon 2-3
13T0-1D	Nonprismatic	Viga Transversal 1-2
13T0-1I	Nonprismatic	Viga Transversal 1-2
13T1-2D	Nonprismatic	Viga Transversal 2-3
13T1-2I	Nonprismatic	Viga Transversal 2-3
13T2-3D	Nonprismatic	Viga Transversal 3-4
13T2-3I	Nonprismatic	Viga Transversal 3-4
13T3-4D	Nonprismatic	Viga Transversal 4-5
13T3-4I	Nonprismatic	Viga Transversal 4-5
14J5-6D	Nonprismatic	Jabalcon 1-2
14J5-6I	Nonprismatic	Jabalcon 1-2
14J6-7D	Nonprismatic	Jabalcon 2-3
14J6-7I	Nonprismatic	Jabalcon 2-3
14T0-1D	Nonprismatic	Viga Transversal 1-2
14T0-1I	Nonprismatic	Viga Transversal 1-2
14T1-2D	Nonprismatic	Viga Transversal 2-3
14T1-2I	Nonprismatic	Viga Transversal 2-3
14T2-3D	Nonprismatic	Viga Transversal 3-4
14T2-3I	Nonprismatic	Viga Transversal 3-4
14T3-4D	Nonprismatic	Viga Transversal 4-5
14T3-4I	Nonprismatic	Viga Transversal 4-5
15J5-6D	Nonprismatic	Jabalcon 1-2
15J5-6I	Nonprismatic	Jabalcon 1-2
15J6-7D	Nonprismatic	Jabalcon 2-3
15J6-7I	Nonprismatic	Jabalcon 2-3
15T0-1D	Nonprismatic	Viga Transversal 1-2
15T0-1I	Nonprismatic	Viga Transversal 1-2
15T1-2D	Nonprismatic	Viga Transversal 2-3
15T1-2I	Nonprismatic	Viga Transversal 2-3
15T2-3D	Nonprismatic	Viga Transversal 3-4
15T2-3I	Nonprismatic	Viga Transversal 3-4
15T3-4D	Nonprismatic	Viga Transversal 4-5
15T3-4I	Nonprismatic	Viga Transversal 4-5
16J5-6D	Nonprismatic	Jabalcon 1-2
16J5-6I	Nonprismatic	Jabalcon 1-2

16J6-7D	Nonprismatic	Jabalcon 2-3
16J6-7I	Nonprismatic	Jabalcon 2-3
16T0-1D	Nonprismatic	Viga Transversal 1-2
16T0-1I	Nonprismatic	Viga Transversal 1-2
16T1-2D	Nonprismatic	Viga Transversal 2-3
16T1-2I	Nonprismatic	Viga Transversal 2-3
16T2-3D	Nonprismatic	Viga Transversal 3-4
16T2-3I	Nonprismatic	Viga Transversal 3-4
16T3-4D	Nonprismatic	Viga Transversal 4-5
16T3-4I	Nonprismatic	Viga Transversal 4-5
17J5-6D	Nonprismatic	Jabalcon 1-2
17J5-6I	Nonprismatic	Jabalcon 1-2
17J6-7D	Nonprismatic	Jabalcon 2-3
17J6-7I	Nonprismatic	Jabalcon 2-3
17T0-1D	Nonprismatic	Viga Transversal 1-2
17T0-1I	Nonprismatic	Viga Transversal 1-2
17T1-2D	Nonprismatic	Viga Transversal 2-3
17T1-2I	Nonprismatic	Viga Transversal 2-3
17T2-3D	Nonprismatic	Viga Transversal 3-4
17T2-3I	Nonprismatic	Viga Transversal 3-4
17T3-4D	Nonprismatic	Viga Transversal 4-5
17T3-4I	Nonprismatic	Viga Transversal 4-5
18J5-6D	Nonprismatic	Jabalcon 1-2
18J5-6I	Nonprismatic	Jabalcon 1-2
18J6-7D	Nonprismatic	Jabalcon 2-3
18J6-7I	Nonprismatic	Jabalcon 2-3
18T0-1D	Nonprismatic	Viga Transversal 1-2
18T0-1I	Nonprismatic	Viga Transversal 1-2
18T1-2D	Nonprismatic	Viga Transversal 2-3
18T1-2I	Nonprismatic	Viga Transversal 2-3
18T2-3D	Nonprismatic	Viga Transversal 3-4
18T2-3I	Nonprismatic	Viga Transversal 3-4
18T3-4D	Nonprismatic	Viga Transversal 4-5
18T3-4I	Nonprismatic	Viga Transversal 4-5
19J5-6D	Nonprismatic	Jabalcon 1-2
19J5-6I	Nonprismatic	Jabalcon 1-2
19J6-7D	Nonprismatic	Jabalcon 2-3
19J6-7I	Nonprismatic	Jabalcon 2-3





19T0-1D	Nonprismatic	Viga Transversal 1-2
19T0-1I	Nonprismatic	Viga Transversal 1-2
19T1-2D	Nonprismatic	Viga Transversal 2-3
19T1-2I	Nonprismatic	Viga Transversal 2-3
19T2-3D	Nonprismatic	Viga Transversal 3-4
19T2-3I	Nonprismatic	Viga Transversal 3-4
19T3-4D	Nonprismatic	Viga Transversal 4-5
19T3-4I	Nonprismatic	Viga Transversal 4-5
20J5-6D	Nonprismatic	Jabalcon 1-2
20J5-6I	Nonprismatic	Jabalcon 1-2
20J6-7D	Nonprismatic	Jabalcon 2-3
20J6-7I	Nonprismatic	Jabalcon 2-3
20T0-1D	Nonprismatic	Viga Transversal 1-2
20T0-1I	Nonprismatic	Viga Transversal 1-2
20T1-2D	Nonprismatic	Viga Transversal 2-3
20T1-2I	Nonprismatic	Viga Transversal 2-3
20T2-3D	Nonprismatic	Viga Transversal 3-4
20T2-3I	Nonprismatic	Viga Transversal 3-4
20T3-4D	Nonprismatic	Viga Transversal 4-5
20T3-4I	Nonprismatic	Viga Transversal 4-5
21J5-6D	Nonprismatic	Jabalcon 1-2
21J5-6I	Nonprismatic	Jabalcon 1-2
21J6-7D	Nonprismatic	Jabalcon 2-3
21J6-7I	Nonprismatic	Jabalcon 2-3
21T0-1D	Nonprismatic	Viga Transversal 1-2
21T0-1I	Nonprismatic	Viga Transversal 1-2
21T1-2D	Nonprismatic	Viga Transversal 2-3
21T1-2I	Nonprismatic	Viga Transversal 2-3
21T2-3D	Nonprismatic	Viga Transversal 3-4
21T2-3I	Nonprismatic	Viga Transversal 3-4
21T3-4D	Nonprismatic	Viga Transversal 4-5
21T3-4I	Nonprismatic	Viga Transversal 4-5
22J5-6D	Nonprismatic	Jabalcon 1-2
22J5-6I	Nonprismatic	Jabalcon 1-2
22J6-7D	Nonprismatic	Jabalcon 2-3
22J6-7I	Nonprismatic	Jabalcon 2-3
22T0-1D	Nonprismatic	Viga Transversal 1-2
22T0-1I	Nonprismatic	Viga Transversal 1-2

22T1-2D	Nonprismatic	Viga Transversal 2-3
22T1-2I	Nonprismatic	Viga Transversal 2-3
22T2-3D	Nonprismatic	Viga Transversal 3-4
22T2-3I	Nonprismatic	Viga Transversal 3-4
22T3-4D	Nonprismatic	Viga Transversal 4-5
22T3-4I	Nonprismatic	Viga Transversal 4-5
23J5-6D	Nonprismatic	Jabalcon 1-2
23J5-6I	Nonprismatic	Jabalcon 1-2
23J6-7D	Nonprismatic	Jabalcon 2-3
23J6-7I	Nonprismatic	Jabalcon 2-3
23T0-1D	Nonprismatic	Viga Transversal 1-2
23T0-1I	Nonprismatic	Viga Transversal 1-2
23T1-2D	Nonprismatic	Viga Transversal 2-3
23T1-2I	Nonprismatic	Viga Transversal 2-3
23T2-3D	Nonprismatic	Viga Transversal 3-4
23T2-3I	Nonprismatic	Viga Transversal 3-4
23T3-4D	Nonprismatic	Viga Transversal 4-5
23T3-4I	Nonprismatic	Viga Transversal 4-5
24J5-6D	Nonprismatic	Jabalcon 1-2
24J5-6I	Nonprismatic	Jabalcon 1-2
24J6-7D	Nonprismatic	Jabalcon 2-3
24J6-7I	Nonprismatic	Jabalcon 2-3
24T0-1D	Nonprismatic	Viga Transversal 1-2
24T0-1I	Nonprismatic	Viga Transversal 1-2
24T1-2D	Nonprismatic	Viga Transversal 2-3
24T1-2I	Nonprismatic	Viga Transversal 2-3
24T2-3D	Nonprismatic	Viga Transversal 3-4
24T2-3I	Nonprismatic	Viga Transversal 3-4
24T3-4D	Nonprismatic	Viga Transversal 4-5
24T3-4I	Nonprismatic	Viga Transversal 4-5
A17-18D	Nonprismatic	17-18D
A17-18I	Nonprismatic	17-18I
A18-19D	Nonprismatic	18-19D
A18-19I	Nonprismatic	18-19I
A19-20D	Nonprismatic	19-20D
A19-20I	Nonprismatic	19-20I
A20-21D	Nonprismatic	20-21D
A20-21I	Nonprismatic	20-21I

A21-22D	Nonprismatic	21-22D
A21-22I	Nonprismatic	21-22I
A22-23D	Nonprismatic	22-23D
A22-23I	Nonprismatic	22-23I
A23-24D	Nonprismatic	23-24D
A23-24I	Nonprismatic	23-24I
A24-25D	Nonprismatic	24-25D
A24-25I	Nonprismatic	24-25I
A25-26D	Nonprismatic	25-26D
A25-26I	Nonprismatic	25-26I
A26-27D	Nonprismatic	26-27D
A27-26I	Nonprismatic	27-26I
D1.0-1D	Nonprismatic	Viga Inclínada 1-2
D1.0-1I	Nonprismatic	Viga Inclínada 1-2
L12-13D	Box/Tube	Cajon Longitudinal
L9D-10D	Box/Tube	Cajon Longitudinal
L9I-10I	Box/Tube	Cajon Longitudinal
L10D-11D	Box/Tube	Cajon Longitudinal
L10I-11I	Box/Tube	Cajon Longitudinal
L11D-12D	Box/Tube	Cajon Longitudinal
L11I-12I	Box/Tube	Cajon Longitudinal
L12I-13I	Box/Tube	Cajon Longitudinal
L13D-14D	Box/Tube	Cajon Longitudinal
L13I-14I	Box/Tube	Cajon Longitudinal
L14D-15D	Box/Tube	Cajon Longitudinal
L14I-15I	Box/Tube	Cajon Longitudinal
L15D-16D	Box/Tube	Cajon Longitudinal
L15I-16I	Box/Tube	Cajon Longitudinal
L16D-17D	Box/Tube	Cajon Longitudinal
L16I-17I	Box/Tube	Cajon Longitudinal
L17D-18D	Box/Tube	Cajon Longitudinal
L17I-18I	Box/Tube	Cajon Longitudinal
L18D-19D	Box/Tube	Cajon Longitudinal
L18I-19I	Box/Tube	Cajon Longitudinal
L19D-20D	Box/Tube	Cajon Longitudinal
L19I-20I	Box/Tube	Cajon Longitudinal
L20D-21D	Box/Tube	Cajon Longitudinal
L20I-21I	Box/Tube	Cajon Longitudinal

L21D-22D	Box/Tube	Cajon Longitudinal
L21I-22I	Box/Tube	Cajon Longitudinal
L22D-23D	Box/Tube	Cajon Longitudinal
L22I-23I	Box/Tube	Cajon Longitudinal
L23D-24D	Box/Tube	Cajon Longitudinal
L23I-24I	Box/Tube	Cajon Longitudinal

I.5. Sección asignada a los elementos tipo área

TABLE: Area Section Assignments		
Area	Section	MatProp
Text	Text	Text
S1.1D	Losa Hormigon	Default
S1.1I	Losa Hormigon	Default
S1.2D	Losa Hormigon	Default
S1.2I	Losa Hormigon	Default
S1.3D	Losa Hormigon	Default
S1.3I	Losa Hormigon	Default
S1.4D	Losa Hormigon	Default
S1.4I	Losa Hormigon	Default
S1.5D	Losa Hormigon	Default
S1.5I	Losa Hormigon	Default
S1.6D	Losa Hormigon	Default
S1.6I	Losa Hormigon	Default
S2.1D	Losa Hormigon	Default
S2.1I	Losa Hormigon	Default
S2.2D	Losa Hormigon	Default
S2.2I	Losa Hormigon	Default
S2.3D	Losa Hormigon	Default
S2.3I	Losa Hormigon	Default
S2.4D	Losa Hormigon	Default
S2.4I	Losa Hormigon	Default
S2.5D	Losa Hormigon	Default
S2.5I	Losa Hormigon	Default
S2.6D	Losa Hormigon	Default
S2.6I	Losa Hormigon	Default
S3.1D	Losa Hormigon	Default
S3.1I	Losa Hormigon	Default





<b>S3.2D</b>	Losa Hormigon	Default
<b>S3.2I</b>	Losa Hormigon	Default
<b>S3.3D</b>	Losa Hormigon	Default
<b>S3.3I</b>	Losa Hormigon	Default
<b>S3.4D</b>	Losa Hormigon	Default
<b>S3.4I</b>	Losa Hormigon	Default
<b>S3.5D</b>	Losa Hormigon	Default
<b>S3.5I</b>	Losa Hormigon	Default
<b>S3.6D</b>	Losa Hormigon	Default
<b>S3.6I</b>	Losa Hormigon	Default
<b>S4.1D</b>	Losa Hormigon	Default
<b>S4.1I</b>	Losa Hormigon	Default
<b>S4.2D</b>	Losa Hormigon	Default
<b>S4.2I</b>	Losa Hormigon	Default
<b>S4.3D</b>	Losa Hormigon	Default
<b>S4.3I</b>	Losa Hormigon	Default
<b>S4.4D</b>	Losa Hormigon	Default
<b>S4.4I</b>	Losa Hormigon	Default
<b>S4.5D</b>	Losa Hormigon	Default
<b>S4.5I</b>	Losa Hormigon	Default
<b>S4.6D</b>	Losa Hormigon	Default
<b>S4.6I</b>	Losa Hormigon	Default
<b>S5.1D</b>	Losa Hormigon	Default
<b>S5.1I</b>	Losa Hormigon	Default
<b>S5.2D</b>	Losa Hormigon	Default
<b>S5.2I</b>	Losa Hormigon	Default
<b>S5.3D</b>	Losa Hormigon	Default
<b>S5.3I</b>	Losa Hormigon	Default
<b>S5.4D</b>	Losa Hormigon	Default
<b>S5.4I</b>	Losa Hormigon	Default
<b>S5.5D</b>	Losa Hormigon	Default
<b>S5.5I</b>	Losa Hormigon	Default
<b>S5.6D</b>	Losa Hormigon	Default
<b>S5.6I</b>	Losa Hormigon	Default
<b>S6.1D</b>	Losa Hormigon	Default
<b>S6.1I</b>	Losa Hormigon	Default
<b>S6.2D</b>	Losa Hormigon	Default
<b>S6.2I</b>	Losa Hormigon	Default

<b>S6.3D</b>	Losa Hormigon	Default
<b>S6.3I</b>	Losa Hormigon	Default
<b>S6.4D</b>	Losa Hormigon	Default
<b>S6.4I</b>	Losa Hormigon	Default
<b>S6.5D</b>	Losa Hormigon	Default
<b>S6.5I</b>	Losa Hormigon	Default
<b>S6.6D</b>	Losa Hormigon	Default
<b>S6.6I</b>	Losa Hormigon	Default
<b>S7.1D</b>	Losa Hormigon	Default
<b>S7.1I</b>	Losa Hormigon	Default
<b>S7.2D</b>	Losa Hormigon	Default
<b>S7.2I</b>	Losa Hormigon	Default
<b>S7.3D</b>	Losa Hormigon	Default
<b>S7.3I</b>	Losa Hormigon	Default
<b>S7.4D</b>	Losa Hormigon	Default
<b>S7.4I</b>	Losa Hormigon	Default
<b>S7.5D</b>	Losa Hormigon	Default
<b>S7.5I</b>	Losa Hormigon	Default
<b>S7.6D</b>	Losa Hormigon	Default
<b>S7.6I</b>	Losa Hormigon	Default
<b>S8.1D</b>	Losa Hormigon	Default
<b>S8.1I</b>	Losa Hormigon	Default
<b>S8.2D</b>	Losa Hormigon	Default
<b>S8.2I</b>	Losa Hormigon	Default
<b>S8.3D</b>	Losa Hormigon	Default
<b>S8.3I</b>	Losa Hormigon	Default
<b>S8.4D</b>	Losa Hormigon	Default
<b>S8.4I</b>	Losa Hormigon	Default
<b>S8.5D</b>	Losa Hormigon	Default
<b>S8.5I</b>	Losa Hormigon	Default
<b>S8.6D</b>	Losa Hormigon	Default
<b>S8.6I</b>	Losa Hormigon	Default
<b>S9.1D</b>	Losa Hormigon	Default
<b>S9.1I</b>	Losa Hormigon	Default
<b>S9.2D</b>	Losa Hormigon	Default
<b>S9.2I</b>	Losa Hormigon	Default
<b>S9.3D</b>	Losa Hormigon	Default
<b>S9.3I</b>	Losa Hormigon	Default

<b>S9.4D</b>	Losa Hormigon	Default
<b>S9.4I</b>	Losa Hormigon	Default
<b>S9.5D</b>	Losa Hormigon	Default
<b>S9.5I</b>	Losa Hormigon	Default
<b>S9.6D</b>	Losa Hormigon	Default
<b>S9.6I</b>	Losa Hormigon	Default
<b>D16.2D</b>	Losa Hormigon	Default
<b>D17.2D</b>	Losa Hormigon	Default
<b>D17.3D</b>	Losa Hormigon	Default
<b>D17.4D</b>	Losa Hormigon	Default
<b>D17.5D</b>	Losa Hormigon	Default
<b>D17.6D</b>	Losa Hormigon	Default
<b>D18.3D</b>	Losa Hormigon	Default
<b>D18.4D</b>	Losa Hormigon	Default
<b>S10.1D</b>	Losa Hormigon	Default
<b>S10.1I</b>	Losa Hormigon	Default
<b>S10.2D</b>	Losa Hormigon	Default
<b>S10.2I</b>	Losa Hormigon	Default
<b>S10.3D</b>	Losa Hormigon	Default
<b>S10.3I</b>	Losa Hormigon	Default
<b>S10.4D</b>	Losa Hormigon	Default
<b>S10.4I</b>	Losa Hormigon	Default
<b>S10.5D</b>	Losa Hormigon	Default
<b>S10.5I</b>	Losa Hormigon	Default
<b>S10.6D</b>	Losa Hormigon	Default
<b>S10.6I</b>	Losa Hormigon	Default
<b>S11.1D</b>	Losa Hormigon	Default
<b>S11.1I</b>	Losa Hormigon	Default
<b>S11.2D</b>	Losa Hormigon	Default
<b>S11.2I</b>	Losa Hormigon	Default
<b>S11.3D</b>	Losa Hormigon	Default
<b>S11.3I</b>	Losa Hormigon	Default
<b>S11.4D</b>	Losa Hormigon	Default
<b>S11.4I</b>	Losa Hormigon	Default
<b>S11.5D</b>	Losa Hormigon	Default
<b>S11.5I</b>	Losa Hormigon	Default
<b>S11.6D</b>	Losa Hormigon	Default
<b>S11.6I</b>	Losa Hormigon	Default

<b>S12.1D</b>	Losa Hormigon	Default
<b>S12.1I</b>	Losa Hormigon	Default
<b>S12.2D</b>	Losa Hormigon	Default
<b>S12.2I</b>	Losa Hormigon	Default
<b>S12.3D</b>	Losa Hormigon	Default
<b>S12.3I</b>	Losa Hormigon	Default
<b>S12.4D</b>	Losa Hormigon	Default
<b>S12.4I</b>	Losa Hormigon	Default
<b>S12.5D</b>	Losa Hormigon	Default
<b>S12.5I</b>	Losa Hormigon	Default
<b>S12.6D</b>	Losa Hormigon	Default
<b>S12.6I</b>	Losa Hormigon	Default
<b>S13.1D</b>	Losa Hormigon	Default
<b>S13.1I</b>	Losa Hormigon	Default
<b>S13.2D</b>	Losa Hormigon	Default
<b>S13.2I</b>	Losa Hormigon	Default
<b>S13.3D</b>	Losa Hormigon	Default
<b>S13.3I</b>	Losa Hormigon	Default
<b>S13.4D</b>	Losa Hormigon	Default
<b>S13.4I</b>	Losa Hormigon	Default
<b>S13.5D</b>	Losa Hormigon	Default
<b>S13.5I</b>	Losa Hormigon	Default
<b>S13.6D</b>	Losa Hormigon	Default
<b>S13.6I</b>	Losa Hormigon	Default
<b>S14.1D</b>	Losa Hormigon	Default
<b>S14.1I</b>	Losa Hormigon	Default
<b>S14.2D</b>	Losa Hormigon	Default
<b>S14.2I</b>	Losa Hormigon	Default
<b>S14.3D</b>	Losa Hormigon	Default
<b>S14.3I</b>	Losa Hormigon	Default
<b>S14.4D</b>	Losa Hormigon	Default
<b>S14.4I</b>	Losa Hormigon	Default
<b>S14.5D</b>	Losa Hormigon	Default
<b>S14.5I</b>	Losa Hormigon	Default
<b>S14.6D</b>	Losa Hormigon	Default
<b>S14.6I</b>	Losa Hormigon	Default
<b>S15.1D</b>	Losa Hormigon	Default
<b>S15.1I</b>	Losa Hormigon	Default



<b>S15.2D</b>	Losa Hormigon	Default
<b>S15.2I</b>	Losa Hormigon	Default
<b>S15.3D</b>	Losa Hormigon	Default
<b>S15.3I</b>	Losa Hormigon	Default
<b>S15.4D</b>	Losa Hormigon	Default
<b>S15.4I</b>	Losa Hormigon	Default
<b>S15.5D</b>	Losa Hormigon	Default
<b>S15.5I</b>	Losa Hormigon	Default
<b>S15.6D</b>	Losa Hormigon	Default
<b>S15.6I</b>	Losa Hormigon	Default
<b>S16.1D</b>	Losa Hormigon	Default
<b>S16.1I</b>	Losa Hormigon	Default
<b>S16.2I</b>	Losa Hormigon	Default
<b>S16.3D</b>	Losa Hormigon	Default
<b>S16.3I</b>	Losa Hormigon	Default
<b>S16.4D</b>	Losa Hormigon	Default
<b>S16.4I</b>	Losa Hormigon	Default
<b>S16.5D</b>	Losa Hormigon	Default
<b>S16.5I</b>	Losa Hormigon	Default
<b>S16.6D</b>	Losa Hormigon	Default
<b>S16.6I</b>	Losa Hormigon	Default
<b>S17.1D</b>	Losa Hormigon	Default
<b>S17.1I</b>	Losa Hormigon	Default
<b>S17.2I</b>	Losa Hormigon	Default
<b>S17.3I</b>	Losa Hormigon	Default
<b>S17.4I</b>	Losa Hormigon	Default
<b>S17.5I</b>	Losa Hormigon	Default
<b>S17.6I</b>	Losa Hormigon	Default
<b>S18.1D</b>	Losa Hormigon	Default
<b>S18.1I</b>	Losa Hormigon	Default
<b>S18.2D</b>	Losa Hormigon	Default
<b>S18.2I</b>	Losa Hormigon	Default
<b>S18.3I</b>	Losa Hormigon	Default
<b>S18.4I</b>	Losa Hormigon	Default
<b>S18.5D</b>	Losa Hormigon	Default
<b>S18.5I</b>	Losa Hormigon	Default
<b>S18.6D</b>	Losa Hormigon	Default
<b>S18.6I</b>	Losa Hormigon	Default

<b>S19.1D</b>	Losa Hormigon	Default
<b>S19.1I</b>	Losa Hormigon	Default
<b>S19.2D</b>	Losa Hormigon	Default
<b>S19.2I</b>	Losa Hormigon	Default
<b>S19.3D</b>	Losa Hormigon	Default
<b>S19.3I</b>	Losa Hormigon	Default
<b>S19.4D</b>	Losa Hormigon	Default
<b>S19.4I</b>	Losa Hormigon	Default
<b>S19.5D</b>	Losa Hormigon	Default
<b>S19.5I</b>	Losa Hormigon	Default
<b>S19.6D</b>	Losa Hormigon	Default
<b>S19.6I</b>	Losa Hormigon	Default
<b>S20.1D</b>	Losa Hormigon	Default
<b>S20.1I</b>	Losa Hormigon	Default
<b>S20.2D</b>	Losa Hormigon	Default
<b>S20.2I</b>	Losa Hormigon	Default
<b>S20.3D</b>	Losa Hormigon	Default
<b>S20.3I</b>	Losa Hormigon	Default
<b>S20.4D</b>	Losa Hormigon	Default
<b>S20.4I</b>	Losa Hormigon	Default
<b>S20.5D</b>	Losa Hormigon	Default
<b>S20.5I</b>	Losa Hormigon	Default
<b>S20.6D</b>	Losa Hormigon	Default
<b>S20.6I</b>	Losa Hormigon	Default
<b>S21.1D</b>	Losa Hormigon	Default
<b>S21.1I</b>	Losa Hormigon	Default
<b>S21.2D</b>	Losa Hormigon	Default
<b>S21.2I</b>	Losa Hormigon	Default
<b>S21.3D</b>	Losa Hormigon	Default
<b>S21.3I</b>	Losa Hormigon	Default
<b>S21.4D</b>	Losa Hormigon	Default
<b>S21.4I</b>	Losa Hormigon	Default
<b>S21.5D</b>	Losa Hormigon	Default
<b>S21.5I</b>	Losa Hormigon	Default
<b>S21.6D</b>	Losa Hormigon	Default
<b>S21.6I</b>	Losa Hormigon	Default
<b>S22.1D</b>	Losa Hormigon	Default
<b>S22.1I</b>	Losa Hormigon	Default

<b>S22.2D</b>	Losa Hormigon	Default
<b>S22.2I</b>	Losa Hormigon	Default
<b>S22.3D</b>	Losa Hormigon	Default
<b>S22.3I</b>	Losa Hormigon	Default
<b>S22.4D</b>	Losa Hormigon	Default
<b>S22.4I</b>	Losa Hormigon	Default
<b>S22.5D</b>	Losa Hormigon	Default
<b>S22.5I</b>	Losa Hormigon	Default
<b>S22.6D</b>	Losa Hormigon	Default
<b>S22.6I</b>	Losa Hormigon	Default
<b>S23.1D</b>	Losa Hormigon	Default
<b>S23.1I</b>	Losa Hormigon	Default
<b>S23.2D</b>	Losa Hormigon	Default
<b>S23.2I</b>	Losa Hormigon	Default
<b>S23.3D</b>	Losa Hormigon	Default
<b>S23.3I</b>	Losa Hormigon	Default
<b>S23.4D</b>	Losa Hormigon	Default
<b>S23.4I</b>	Losa Hormigon	Default
<b>S23.5D</b>	Losa Hormigon	Default
<b>S23.5I</b>	Losa Hormigon	Default
<b>S23.6D</b>	Losa Hormigon	Default
<b>S23.6I</b>	Losa Hormigon	Default

<b>5.6D</b>	BODY259	Body
<b>5.7D</b>	BODY260	Body
<b>6.6D</b>	BODY246	Body
<b>6.7D</b>	BODY247	Body
<b>7.6D</b>	BODY233	Body
<b>7.7D</b>	BODY234	Body
<b>8.6D</b>	BODY220	Body
<b>8.7D</b>	BODY221	Body
<b>9.6D</b>	BODY207	Body
<b>9.7D</b>	BODY208	Body
<b>10.6D</b>	BODY194	Body
<b>10.7D</b>	BODY195	Body
<b>11.6D</b>	BODY181	Body
<b>11.7D</b>	BODY182	Body
<b>12.6D</b>	BODY168	Body
<b>12.7D</b>	BODY169	Body
<b>13.6D</b>	BODY155	Body
<b>13.7D</b>	BODY156	Body
<b>14.6D</b>	BODY142	Body
<b>14.7D</b>	BODY143	Body
<b>15.6D</b>	BODY129	Body
<b>15.7D</b>	BODY130	Body
<b>16.6D</b>	BODY116	Body
<b>16.7D</b>	BODY117	Body
<b>17.6D</b>	BODY103	Body
<b>17.7D</b>	BODY104	Body
<b>18.6D</b>	BODY90	Body
<b>18.7D</b>	BODY91	Body
<b>19.6D</b>	BODY77	Body
<b>19.7D</b>	BODY78	Body
<b>20.6D</b>	BODY64	Body
<b>20.7D</b>	BODY65	Body
<b>21.6D</b>	BODY51	Body
<b>21.7D</b>	BODY52	Body
<b>22.6D</b>	BODY38	Body
<b>22.7D</b>	BODY39	Body

## I.6. Nudos de dimensión finita

TABLE: Joint Constraint Assignments		
Joint	Constraint	Type
Text	Text	Text
<b>1.6D</b>	BODY311	Body
<b>1.7D</b>	BODY312	Body
<b>2.6D</b>	BODY298	Body
<b>2.7D</b>	BODY299	Body
<b>3.6D</b>	BODY285	Body
<b>3.7D</b>	BODY286	Body
<b>4.6D</b>	BODY272	Body
<b>4.7D</b>	BODY273	Body



<b>23.6D</b>	BODY25	Body
<b>23.7D</b>	BODY26	Body
<b>24.6D</b>	BODY12	Body
<b>24.7D</b>	BODY13	Body
<b>1.5D</b>	BODY310	Body
<b>2.5D</b>	BODY297	Body
<b>3.5D</b>	BODY284	Body
<b>4.5D</b>	BODY271	Body
<b>5.5D</b>	BODY258	Body
<b>6.5D</b>	BODY245	Body
<b>7.5D</b>	BODY232	Body
<b>8.5D</b>	BODY219	Body
<b>9.5D</b>	BODY206	Body
<b>10.5D</b>	BODY193	Body
<b>11.5D</b>	BODY180	Body
<b>12.5D</b>	BODY167	Body
<b>13.5D</b>	BODY154	Body
<b>14.5D</b>	BODY141	Body
<b>15.5D</b>	BODY128	Body
<b>16.5D</b>	BODY115	Body
<b>17.5D</b>	BODY102	Body
<b>18.5D</b>	BODY89	Body
<b>19.5D</b>	BODY76	Body
<b>20.5D</b>	BODY63	Body
<b>21.5D</b>	BODY50	Body
<b>22.5D</b>	BODY37	Body
<b>23.5D</b>	BODY24	Body
<b>24.5D</b>	BODY11	Body
<b>1</b>	BODY306	Body
<b>1.1D</b>	BODY307	Body
<b>2</b>	BODY293	Body
<b>2.1D</b>	BODY294	Body
<b>3</b>	BODY280	Body
<b>3.1D</b>	BODY281	Body
<b>4</b>	BODY267	Body
<b>4.1D</b>	BODY268	Body

<b>5</b>	BODY254	Body
<b>5.1D</b>	BODY255	Body
<b>6</b>	BODY241	Body
<b>6.1D</b>	BODY242	Body
<b>7</b>	BODY228	Body
<b>7.1D</b>	BODY229	Body
<b>8</b>	BODY215	Body
<b>8.1D</b>	BODY216	Body
<b>9</b>	BODY202	Body
<b>9.1D</b>	BODY203	Body
<b>10</b>	BODY189	Body
<b>10.1D</b>	BODY190	Body
<b>11</b>	BODY176	Body
<b>11.1D</b>	BODY177	Body
<b>12</b>	BODY163	Body
<b>12.1D</b>	BODY164	Body
<b>13</b>	BODY150	Body
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<b>H21.7D</b>	BODY52	Body
<b>H21.6D</b>	BODY51	Body
<b>H21D</b>	BODY50	Body
<b>H21.3D</b>	BODY49	Body
<b>H21.2D</b>	BODY48	Body
<b>H21.1D</b>	BODY47	Body
<b>H21.0</b>	BODY46	Body
<b>H20.7D</b>	BODY65	Body
<b>H20.6D</b>	BODY64	Body
<b>H20D</b>	BODY63	Body
<b>H20.3D</b>	BODY62	Body
<b>H20.2D</b>	BODY61	Body
<b>H20.1D</b>	BODY60	Body
<b>H20.0</b>	BODY59	Body
<b>H19.7D</b>	BODY78	Body
<b>H19.6D</b>	BODY77	Body
<b>H19D</b>	BODY76	Body
<b>H19.3D</b>	BODY75	Body
<b>H19.2D</b>	BODY74	Body
<b>H19.1D</b>	BODY73	Body
<b>H19.0</b>	BODY72	Body
<b>H24.0</b>	BODY7	Body
<b>H24.1D</b>	BODY8	Body
<b>H24.2D</b>	BODY9	Body
<b>H24.3D</b>	BODY10	Body
<b>H24D</b>	BODY11	Body
<b>H24.6D</b>	BODY12	Body
<b>H24.7D</b>	BODY13	Body
<b>H1.5I</b>	BODY301	Body
<b>H2.6I</b>	BODY288	Body
<b>H2.7I</b>	BODY287	Body
<b>H1.7I</b>	BODY300	Body
<b>H1I</b>	BODY302	Body
<b>H2I</b>	BODY289	Body

<b>H1.3I</b>	BODY303	Body
<b>H2.3I</b>	BODY290	Body
<b>H1.2I</b>	BODY304	Body
<b>H2.2I</b>	BODY291	Body
<b>H1.1I</b>	BODY305	Body
<b>H2.1I</b>	BODY292	Body
<b>H3.6I</b>	BODY275	Body
<b>H3.7I</b>	BODY274	Body
<b>H3I</b>	BODY276	Body
<b>H3.3I</b>	BODY277	Body
<b>H3.2I</b>	BODY278	Body
<b>H3.1I</b>	BODY279	Body
<b>H4.6I</b>	BODY262	Body
<b>H4.7I</b>	BODY261	Body
<b>H4I</b>	BODY263	Body
<b>H4.3I</b>	BODY264	Body
<b>H4.2I</b>	BODY265	Body
<b>H4.1I</b>	BODY266	Body
<b>H5.6I</b>	BODY249	Body
<b>H5.7I</b>	BODY248	Body
<b>H5I</b>	BODY250	Body
<b>H5.3I</b>	BODY251	Body
<b>H5.2I</b>	BODY252	Body
<b>H5.1I</b>	BODY253	Body
<b>H6.6I</b>	BODY236	Body
<b>H6.7I</b>	BODY235	Body
<b>H6I</b>	BODY237	Body
<b>H6.3I</b>	BODY238	Body
<b>H6.2I</b>	BODY239	Body
<b>H6.1I</b>	BODY240	Body
<b>H7.6I</b>	BODY223	Body
<b>H7.7I</b>	BODY222	Body
<b>H7I</b>	BODY224	Body
<b>H7.3I</b>	BODY225	Body
<b>H7.2I</b>	BODY226	Body
<b>H7.1I</b>	BODY227	Body



<b>H8.6I</b>	BODY210	Body
<b>H8.7I</b>	BODY209	Body
<b>H8I</b>	BODY211	Body
<b>H8.3I</b>	BODY212	Body
<b>H8.2I</b>	BODY213	Body
<b>H8.1I</b>	BODY214	Body
<b>H9.6I</b>	BODY197	Body
<b>H9.7I</b>	BODY196	Body
<b>H9I</b>	BODY198	Body
<b>H9.3I</b>	BODY199	Body
<b>H9.2I</b>	BODY200	Body
<b>H9.1I</b>	BODY201	Body
<b>H10.6I</b>	BODY184	Body
<b>H10.7I</b>	BODY183	Body
<b>H10I</b>	BODY185	Body
<b>H10.3I</b>	BODY186	Body
<b>H10.2I</b>	BODY187	Body
<b>H10.1I</b>	BODY188	Body
<b>H11.6I</b>	BODY171	Body
<b>H11.7I</b>	BODY170	Body
<b>H11I</b>	BODY172	Body
<b>H11.3I</b>	BODY173	Body
<b>H11.2I</b>	BODY174	Body
<b>H11.1I</b>	BODY175	Body
<b>H12.6I</b>	BODY158	Body
<b>H12.7I</b>	BODY157	Body
<b>H12I</b>	BODY159	Body
<b>H12.3I</b>	BODY160	Body
<b>H12.2I</b>	BODY161	Body
<b>H12.1I</b>	BODY162	Body
<b>H13.6I</b>	BODY145	Body
<b>H13.7I</b>	BODY144	Body
<b>H13I</b>	BODY146	Body
<b>H13.3I</b>	BODY147	Body
<b>H13.2I</b>	BODY148	Body
<b>H13.1I</b>	BODY149	Body

<b>H14.6I</b>	BODY132	Body
<b>H14.7I</b>	BODY131	Body
<b>H14I</b>	BODY133	Body
<b>H14.3I</b>	BODY134	Body
<b>H14.2I</b>	BODY135	Body
<b>H14.1I</b>	BODY136	Body
<b>H15.6I</b>	BODY119	Body
<b>H15.7I</b>	BODY118	Body
<b>H15I</b>	BODY120	Body
<b>H15.3I</b>	BODY121	Body
<b>H15.2I</b>	BODY122	Body
<b>H15.1I</b>	BODY123	Body
<b>H16.6I</b>	BODY106	Body
<b>H16.7I</b>	BODY105	Body
<b>H16I</b>	BODY107	Body
<b>H16.3I</b>	BODY108	Body
<b>H16.2I</b>	BODY109	Body
<b>H16.1I</b>	BODY110	Body
<b>H17.6I</b>	BODY93	Body
<b>H17.7I</b>	BODY92	Body
<b>H17I</b>	BODY94	Body
<b>H17.3I</b>	BODY95	Body
<b>H17.2I</b>	BODY96	Body
<b>H17.1I</b>	BODY97	Body
<b>H18.6I</b>	BODY80	Body
<b>H18.7I</b>	BODY79	Body
<b>H18I</b>	BODY81	Body
<b>H18.3I</b>	BODY82	Body
<b>H18.2I</b>	BODY83	Body
<b>H18.1I</b>	BODY84	Body
<b>H23.6I</b>	BODY15	Body
<b>H22.6I</b>	BODY28	Body
<b>H22.7I</b>	BODY27	Body
<b>H23.7I</b>	BODY14	Body
<b>H23I</b>	BODY16	Body

<b>H22I</b>	BODY29	Body
<b>H23.3I</b>	BODY17	Body
<b>H22.3I</b>	BODY30	Body
<b>H23.2I</b>	BODY18	Body
<b>H22.2I</b>	BODY31	Body
<b>H23.1I</b>	BODY19	Body
<b>H22.1I</b>	BODY32	Body
<b>H21.6I</b>	BODY41	Body
<b>H21.7I</b>	BODY40	Body
<b>H21I</b>	BODY42	Body
<b>H21.3I</b>	BODY43	Body
<b>H21.2I</b>	BODY44	Body
<b>H21.1I</b>	BODY45	Body
<b>H20.6I</b>	BODY54	Body
<b>H20.7I</b>	BODY53	Body
<b>H20I</b>	BODY55	Body
<b>H20.3I</b>	BODY56	Body
<b>H20.2I</b>	BODY57	Body
<b>H20.1I</b>	BODY58	Body
<b>H19.6I</b>	BODY67	Body
<b>H19.7I</b>	BODY66	Body
<b>H19I</b>	BODY68	Body
<b>H19.3I</b>	BODY69	Body
<b>H19.2I</b>	BODY70	Body
<b>H19.1I</b>	BODY71	Body
<b>H24.1I</b>	BODY6	Body
<b>H24.2I</b>	BODY5	Body
<b>H24.3I</b>	BODY4	Body
<b>H24I</b>	BODY3	Body
<b>H24.6I</b>	BODY2	Body
<b>H24.7I</b>	BODY1	Body
<b>A1</b>	BODY306	Body
<b>A11</b>	BODY317	Body
<b>A12</b>	BODY318	Body
<b>A13</b>	BODY319	Body
<b>A14</b>	BODY320	Body

<b>A15</b>	BODY321	Body
<b>A16</b>	BODY322	Body
<b>A18D</b>	BODY313	Body
<b>A19D</b>	BODY314	Body
<b>A20D</b>	BODY315	Body
<b>A21D</b>	BODY316	Body
<b>A28D</b>	BODY11	Body
<b>A18I</b>	BODY313	Body
<b>A19I</b>	BODY314	Body
<b>A20I</b>	BODY315	Body
<b>A21I</b>	BODY316	Body
<b>A28I</b>	BODY3	Body
<b>C1I</b>	BODY250	Body
<b>C2I</b>	BODY211	Body
<b>C3I</b>	BODY172	Body
<b>C4I</b>	BODY133	Body
<b>C5I</b>	BODY94	Body
<b>C6I</b>	BODY55	Body
<b>C2IA</b>	BODY318	Body
<b>C1IA</b>	BODY317	Body
<b>C4IA</b>	BODY320	Body
<b>C3IA</b>	BODY319	Body
<b>C6IA</b>	BODY322	Body
<b>C5IA</b>	BODY321	Body
<b>C1DA</b>	BODY317	Body
<b>C1D</b>	BODY258	Body
<b>C2DA</b>	BODY318	Body
<b>C2D</b>	BODY219	Body
<b>C3DA</b>	BODY319	Body
<b>C3D</b>	BODY180	Body
<b>C4DA</b>	BODY320	Body
<b>C4D</b>	BODY141	Body
<b>C5DA</b>	BODY321	Body
<b>C5D</b>	BODY102	Body
<b>C6AD</b>	BODY322	Body
<b>C6D</b>	BODY63	Body



## I.7. Acciones actuantes sobre el puente

TABLE: Load Pattern Definitions		
LoadPat	DesignType	SelfWtMult
Text	Text	Unitless
Peso Propio	DEAD	1
Pavimento Bituminoso	DEAD	0
Pavimento Aceras	DEAD	0
Bordillo Bici	DEAD	0
Bloque Hormigon	DEAD	0
Imporsta	DEAD	0
Barandilla	DEAD	0
Cristal de Barandilla	DEAD	0
Sobrecarga Uniforme Carril Virtual 1 Transversal	LIVE	0
Sobrecarga Uniforme Carril Virtual 2 Transversal	LIVE	0
Sobrecarga Uniforme Area Remanente Transversal	LIVE	0
Sobrecarga Uniforme Carril Bici	LIVE	0
Sobrecarga Uniforme Carril Virtual 1 Longitudinal	LIVE	0
Sobrecarga Uniforme Carril Virtual 2 Longitudinal	LIVE	0
Sobrecarga Uniforme Area Remanente Longitudinal	LIVE	0
Vehiculo Pesado Carril Virtual 1 Transversal	LIVE	0
Vehiculo Pesado Carril Virtual 2 Transversal	LIVE	0
Vehiculo Pesado Carril Virtual 1 Transversal Apoyo	LIVE	0
Vehiculo Pesado Carril Virtual 2 Transversal Apoyo	LIVE	0
Vehiculo Pesado Carril Virtual 1 Longitudinal	LIVE	0
Vehiculo Pesado Carril Virtual 2 Longitudinal	LIVE	0
Vehiculo Pesado Carril Virtual 1 Longitudinal Apoyo	LIVE	0
Vehiculo Pesado Carril Virtual 2 Longitudinal Apoyo	LIVE	0
Frenado y Arranque Carga Horizontal Overstrasse	LIVE	0
Frenado y Arranque Carga Horizontal Tempelhof	LIVE	0
Sobrecarga Uniforme Peatones	LIVE	0
Viento Transversal - Horizontal Derecha	LIVE	0
Viento Transversal - Horizontal Izquierdo	LIVE	0
Viento Transversal Vertical Succion Derecho	LIVE	0
Viento Transversal - Vertical Succion Izquierdo	LIVE	0
Viento Transversal - Vertical Empuje Derecho	LIVE	0
Viento Transversal - Vertical Empuje Izquierdo	LIVE	0
Viento Longitudinal Tempelhof	LIVE	0

Viento Longitudinal Overstrassen	LIVE	0
Viento Arco Horizontal Derecha	LIVE	0
Viento Arco Horizontal Izquierda	LIVE	0
Viento Arco Vertical Succion	LIVE	0
Viento Arco Vertical Empuje	LIVE	0
Viento Arco Longitudinal Tempelhof	LIVE	0
Viento Arco Longitudinal Overstrassen	LIVE	0
Nieve Arco	LIVE	0
Nieve Tablero	LIVE	0
Temperatura Tablero Dilatado	LIVE	0
Temperatura Tablero Contraido	LIVE	0
Temperatura Gradiente de Calentamiento	LIVE	0
Temperatura Gradiente de Enfriamiento	LIVE	0
Temperatura Arco +15 Dilatando	LIVE	0
Temperatura Tirante +20 Dilatando	LIVE	0
Temperatura Tirante -10 Dilatando	LIVE	0
Temperatura Arco -15 Contrayendo	LIVE	0
Temperatura Tirante +20 Contrayendo	LIVE	0
Temperatura Tirante -10 Contrayendo	LIVE	0

## I.8. Cargas puntuales sobre nudos

TABLE: Joint Loads - Force							
Joint	LoadPat	F1	F2	F3	M1	M2	M3
Text	Text	KN	KN	KN	KN-m	KN-m	KN-m
1.7D	Imporsta	0	0	-11.3	0	0	0
1.7D	Barandilla	0	0	-1.703	0	0	0
1.7D	Cristal de Barandilla	0	0	-0.96	0	0	0
1.7D	Viento Transversal - Horizontal Derecha	6.42	0	0	0	7.55	0
2.7D	Imporsta	0	0	-11.3	0	0	0
2.7D	Barandilla	0	0	-1.703	0	0	0
2.7D	Cristal de Barandilla	0	0	-0.96	0	0	0
2.7D	Viento Transversal - Horizontal Derecha	6.42	0	0	0	7.55	0
3.7D	Imporsta	0	0	-11.3	0	0	0
3.7D	Barandilla	0	0	-1.703	0	0	0
3.7D	Cristal de Barandilla	0	0	-0.96	0	0	0
3.7D	Viento Transversal - Horizontal Derecha	6.42	0	0	0	7.55	0
4.7D	Imporsta	0	0	-11.3	0	0	0



4.7D	Barandilla	0	0	-1.703	0	0	0
4.7D	Cristal de Barandilla	0	0	-0.96	0	0	0
4.7D	Viento Transversal - Horizontal Derecha	6.42	0	0	0	7.55	0
5.7D	Imporsta	0	0	-11.3	0	0	0
5.7D	Barandilla	0	0	-1.703	0	0	0
5.7D	Cristal de Barandilla	0	0	-0.96	0	0	0
5.7D	Viento Transversal - Horizontal Derecha	6.42	0	0	0	7.55	0
6.7D	Imporsta	0	0	-11.3	0	0	0
6.7D	Barandilla	0	0	-1.703	0	0	0
6.7D	Cristal de Barandilla	0	0	-0.96	0	0	0
6.7D	Viento Transversal - Horizontal Derecha	6.42	0	0	0	7.55	0
7.7D	Imporsta	0	0	-11.3	0	0	0
7.7D	Barandilla	0	0	-1.703	0	0	0
7.7D	Cristal de Barandilla	0	0	-0.96	0	0	0
7.7D	Viento Transversal - Horizontal Derecha	6.42	0	0	0	7.55	0
8.7D	Imporsta	0	0	-11.3	0	0	0
8.7D	Barandilla	0	0	-1.703	0	0	0
8.7D	Cristal de Barandilla	0	0	-0.96	0	0	0
8.7D	Viento Transversal - Horizontal Derecha	6.42	0	0	0	7.55	0
9.7D	Imporsta	0	0	-11.3	0	0	0
9.7D	Barandilla	0	0	-1.703	0	0	0
9.7D	Cristal de Barandilla	0	0	-0.96	0	0	0
9.7D	Viento Transversal - Horizontal Derecha	6.42	0	0	0	7.55	0
10.7D	Imporsta	0	0	-11.3	0	0	0
10.7D	Barandilla	0	0	-1.703	0	0	0
10.7D	Cristal de Barandilla	0	0	-0.96	0	0	0
10.7D	Viento Transversal - Horizontal Derecha	6.42	0	0	0	7.55	0
11.7D	Imporsta	0	0	-11.3	0	0	0
11.7D	Barandilla	0	0	-1.703	0	0	0
11.7D	Cristal de Barandilla	0	0	-0.96	0	0	0
11.7D	Viento Transversal - Horizontal Derecha	6.42	0	0	0	7.55	0
12.7D	Imporsta	0	0	-11.3	0	0	0
12.7D	Barandilla	0	0	-1.703	0	0	0
12.7D	Cristal de Barandilla	0	0	-0.96	0	0	0
12.7D	Viento Transversal - Horizontal Derecha	6.42	0	0	0	7.55	0
13.7D	Imporsta	0	0	-11.3	0	0	0
13.7D	Barandilla	0	0	-1.703	0	0	0
13.7D	Cristal de Barandilla	0	0	-0.96	0	0	0
13.7D	Viento Transversal - Horizontal Derecha	6.42	0	0	0	7.55	0
14.7D	Imporsta	0	0	-11.3	0	0	0
14.7D	Barandilla	0	0	-1.703	0	0	0
14.7D	Cristal de Barandilla	0	0	-0.96	0	0	0
14.7D	Viento Transversal - Horizontal Derecha	6.42	0	0	0	7.55	0
15.7D	Imporsta	0	0	-11.3	0	0	0
15.7D	Barandilla	0	0	-1.703	0	0	0
15.7D	Cristal de Barandilla	0	0	-0.96	0	0	0
15.7D	Viento Transversal - Horizontal Derecha	6.42	0	0	0	7.55	0
16.7D	Imporsta	0	0	-11.3	0	0	0
16.7D	Barandilla	0	0	-1.703	0	0	0
16.7D	Cristal de Barandilla	0	0	-0.96	0	0	0
16.7D	Viento Transversal - Horizontal Derecha	6.42	0	0	0	7.55	0
17.7D	Imporsta	0	0	-11.3	0	0	0
17.7D	Barandilla	0	0	-1.703	0	0	0
17.7D	Cristal de Barandilla	0	0	-0.96	0	0	0
17.7D	Viento Transversal - Horizontal Derecha	6.42	0	0	0	7.55	0
18.7D	Imporsta	0	0	-11.3	0	0	0
18.7D	Barandilla	0	0	-1.703	0	0	0
18.7D	Cristal de Barandilla	0	0	-0.96	0	0	0
18.7D	Viento Transversal - Horizontal Derecha	6.42	0	0	0	7.55	0
19.7D	Imporsta	0	0	-11.3	0	0	0
19.7D	Barandilla	0	0	-1.703	0	0	0
19.7D	Cristal de Barandilla	0	0	-0.96	0	0	0
19.7D	Viento Transversal - Horizontal Derecha	6.42	0	0	0	7.55	0
20.7D	Imporsta	0	0	-11.3	0	0	0
20.7D	Barandilla	0	0	-1.703	0	0	0
20.7D	Cristal de Barandilla	0	0	-0.96	0	0	0
20.7D	Viento Transversal - Horizontal Derecha	6.42	0	0	0	7.55	0
21.7D	Imporsta	0	0	-11.3	0	0	0
21.7D	Barandilla	0	0	-1.703	0	0	0
21.7D	Cristal de Barandilla	0	0	-0.96	0	0	0
21.7D	Viento Transversal - Horizontal Derecha	6.42	0	0	0	7.55	0
22.7D	Imporsta	0	0	-11.3	0	0	0
22.7D	Barandilla	0	0	-1.703	0	0	0
22.7D	Cristal de Barandilla	0	0	-0.96	0	0	0
22.7D	Viento Transversal - Horizontal Derecha	6.42	0	0	0	7.55	0
23.7D	Imporsta	0	0	-11.3	0	0	0





23.7D	Barandilla	0	0	-1.703	0	0	0
23.7D	Cristal de Barandilla	0	0	-0.96	0	0	0
23.7D	Viento Transversal - Horizontal Derecha	6.42	0	0	0	7.55	0
24.7D	Imporsta	0	0	-11.3	0	0	0
24.7D	Barandilla	0	0	-1.703	0	0	0
24.7D	Cristal de Barandilla	0	0	-0.96	0	0	0
24.7D	Viento Transversal - Horizontal Derecha	6.42	0	0	0	7.55	0
1.7I	Imporsta	0	0	-11.3	0	0	0
1.7I	Barandilla	0	0	-1.703	0	0	0
1.7I	Cristal de Barandilla	0	0	-0.96	0	0	0
1.7I	Viento Transversal - Horizontal Izquierdo	-6.42	0	0	0	-7.55	0
2.7I	Imporsta	0	0	-11.3	0	0	0
2.7I	Barandilla	0	0	-1.703	0	0	0
2.7I	Cristal de Barandilla	0	0	-0.96	0	0	0
2.7I	Viento Transversal - Horizontal Izquierdo	-6.42	0	0	0	-7.55	0
3.7I	Imporsta	0	0	-11.3	0	0	0
3.7I	Barandilla	0	0	-1.703	0	0	0
3.7I	Cristal de Barandilla	0	0	-0.96	0	0	0
3.7I	Viento Transversal - Horizontal Izquierdo	-6.42	0	0	0	-7.55	0
4.7I	Imporsta	0	0	-11.3	0	0	0
4.7I	Barandilla	0	0	-1.703	0	0	0
4.7I	Cristal de Barandilla	0	0	-0.96	0	0	0
4.7I	Viento Transversal - Horizontal Izquierdo	-6.42	0	0	0	-7.55	0
5.7I	Imporsta	0	0	-11.3	0	0	0
5.7I	Barandilla	0	0	-1.703	0	0	0
5.7I	Cristal de Barandilla	0	0	-0.96	0	0	0
5.7I	Viento Transversal - Horizontal Izquierdo	-6.42	0	0	0	-7.55	0
6.7I	Imporsta	0	0	-11.3	0	0	0
6.7I	Barandilla	0	0	-1.703	0	0	0
6.7I	Cristal de Barandilla	0	0	-0.96	0	0	0
6.7I	Viento Transversal - Horizontal Izquierdo	-6.42	0	0	0	-7.55	0
7.7I	Imporsta	0	0	-11.3	0	0	0
7.7I	Barandilla	0	0	-1.703	0	0	0
7.7I	Cristal de Barandilla	0	0	-0.96	0	0	0
7.7I	Viento Transversal - Horizontal Izquierdo	-6.42	0	0	0	-7.55	0
8.7I	Imporsta	0	0	-11.3	0	0	0
8.7I	Barandilla	0	0	-1.703	0	0	0
8.7I	Cristal de Barandilla	0	0	-0.96	0	0	0
8.7I	Viento Transversal - Horizontal Izquierdo	-6.42	0	0	0	-7.55	0
9.7I	Imporsta	0	0	-11.3	0	0	0
9.7I	Barandilla	0	0	-1.703	0	0	0
9.7I	Cristal de Barandilla	0	0	-0.96	0	0	0
9.7I	Viento Transversal - Horizontal Izquierdo	-6.42	0	0	0	-7.55	0
10.7I	Imporsta	0	0	-11.3	0	0	0
10.7I	Barandilla	0	0	-1.703	0	0	0
10.7I	Cristal de Barandilla	0	0	-0.96	0	0	0
10.7I	Viento Transversal - Horizontal Izquierdo	-6.42	0	0	0	-7.55	0
11.7I	Imporsta	0	0	-11.3	0	0	0
11.7I	Barandilla	0	0	-1.703	0	0	0
11.7I	Cristal de Barandilla	0	0	-0.96	0	0	0
11.7I	Viento Transversal - Horizontal Izquierdo	-6.42	0	0	0	-7.55	0
12.7I	Imporsta	0	0	-11.3	0	0	0
12.7I	Barandilla	0	0	-1.703	0	0	0
12.7I	Cristal de Barandilla	0	0	-0.96	0	0	0
12.7I	Viento Transversal - Horizontal Izquierdo	-6.42	0	0	0	-7.55	0
13.7I	Imporsta	0	0	-11.3	0	0	0
13.7I	Barandilla	0	0	-1.703	0	0	0
13.7I	Cristal de Barandilla	0	0	-0.96	0	0	0
13.7I	Viento Transversal - Horizontal Izquierdo	-6.42	0	0	0	-7.55	0
14.7I	Imporsta	0	0	-11.3	0	0	0
14.7I	Barandilla	0	0	-1.703	0	0	0
14.7I	Cristal de Barandilla	0	0	-0.96	0	0	0
14.7I	Viento Transversal - Horizontal Izquierdo	-6.42	0	0	0	-7.55	0
15.7I	Imporsta	0	0	-11.3	0	0	0
15.7I	Barandilla	0	0	-1.703	0	0	0
15.7I	Cristal de Barandilla	0	0	-0.96	0	0	0
15.7I	Viento Transversal - Horizontal Izquierdo	-6.42	0	0	0	-7.55	0
16.7I	Imporsta	0	0	-11.3	0	0	0
16.7I	Barandilla	0	0	-1.703	0	0	0
16.7I	Cristal de Barandilla	0	0	-0.96	0	0	0
16.7I	Viento Transversal - Horizontal Izquierdo	-6.42	0	0	0	-7.55	0
17.7I	Imporsta	0	0	-11.3	0	0	0
17.7I	Barandilla	0	0	-1.703	0	0	0
17.7I	Cristal de Barandilla	0	0	-0.96	0	0	0
17.7I	Viento Transversal - Horizontal Izquierdo	-6.42	0	0	0	-7.55	0
18.7I	Imporsta	0	0	-11.3	0	0	0





18.7I	Barandilla	0	0	-1.703	0	0	0
18.7I	Cristal de Barandilla	0	0	-0.96	0	0	0
18.7I	Viento Transversal - Horizontal Izquierdo	-6.42	0	0	0	-7.55	0
19.7I	Imporsta	0	0	-11.3	0	0	0
19.7I	Barandilla	0	0	-1.703	0	0	0
19.7I	Cristal de Barandilla	0	0	-0.96	0	0	0
19.7I	Viento Transversal - Horizontal Izquierdo	-6.42	0	0	0	-7.55	0
20.7I	Imporsta	0	0	-11.3	0	0	0
20.7I	Barandilla	0	0	-1.703	0	0	0
20.7I	Cristal de Barandilla	0	0	-0.96	0	0	0
20.7I	Viento Transversal - Horizontal Izquierdo	-6.42	0	0	0	-7.55	0
21.7I	Imporsta	0	0	-11.3	0	0	0
21.7I	Barandilla	0	0	-1.703	0	0	0
21.7I	Cristal de Barandilla	0	0	-0.96	0	0	0
21.7I	Viento Transversal - Horizontal Izquierdo	-6.42	0	0	0	-7.55	0
22.7I	Imporsta	0	0	-11.3	0	0	0
22.7I	Barandilla	0	0	-1.703	0	0	0
22.7I	Cristal de Barandilla	0	0	-0.96	0	0	0
22.7I	Viento Transversal - Horizontal Izquierdo	-6.42	0	0	0	-7.55	0
23.7I	Imporsta	0	0	-11.3	0	0	0
23.7I	Barandilla	0	0	-1.703	0	0	0
23.7I	Cristal de Barandilla	0	0	-0.96	0	0	0
23.7I	Viento Transversal - Horizontal Izquierdo	-6.42	0	0	0	-7.55	0
24.7I	Imporsta	0	0	-11.3	0	0	0
24.7I	Barandilla	0	0	-1.703	0	0	0
24.7I	Cristal de Barandilla	0	0	-0.96	0	0	0
24.7I	Viento Transversal - Horizontal Izquierdo	-6.42	0	0	0	-7.55	0

Apoyo				
24T0-1D	Vehiculo Pesado Carril Virtual 2 Longitudinal	0.729411765	1.55	152
Apoyo				
1T1-2D	Bordillo Bici	0.941176471	2	0.153
1T1-2D	Vehiculo Pesado Carril Virtual 1 Transversal	0.388235294	0.825	228
Apoyo				
2T1-2D	Bordillo Bici	0.941176471	2	0.153
3T1-2D	Bordillo Bici	0.941176471	2	0.153
4T1-2D	Bordillo Bici	0.941176471	2	0.153
5T1-2D	Bordillo Bici	0.941176471	2	0.153
6T1-2D	Bordillo Bici	0.941176471	2	0.153
7T1-2D	Bordillo Bici	0.941176471	2	0.153
8T1-2D	Bordillo Bici	0.941176471	2	0.153
9T1-2D	Bordillo Bici	0.941176471	2	0.153
10T1-2D	Bordillo Bici	0.941176471	2	0.153
11T1-2D	Bordillo Bici	0.941176471	2	0.153
12T1-2D	Bordillo Bici	0.941176471	2	0.153
13T1-2D	Bordillo Bici	0.941176471	2	0.153
14T1-2D	Bordillo Bici	0.941176471	2	0.153
14T1-2D	Vehiculo Pesado Carril Virtual 1 Transversal	3.53E-02	0.075	228
14T1-2D	Vehiculo Pesado Carril Virtual 1 Longitudinal	0.905882353	1.925	228
15T1-2D	Bordillo Bici	0.941176471	2	0.153
16T1-2D	Bordillo Bici	0.941176471	2	0.153
17T1-2D	Bordillo Bici	0.941176471	2	0.153
18T1-2D	Bordillo Bici	0.941176471	2	0.153
19T1-2D	Bordillo Bici	0.941176471	2	0.153
20T1-2D	Bordillo Bici	0.941176471	2	0.153
21T1-2D	Bordillo Bici	0.941176471	2	0.153
22T1-2D	Bordillo Bici	0.941176471	2	0.153
23T1-2D	Bordillo Bici	0.941176471	2	0.153
24T1-2D	Bordillo Bici	0.941176471	2	0.153
24T1-2D	Vehiculo Pesado Carril Virtual 1 Longitudinal	0.905882353	1.925	228
Apoyo				
1T2-3D	Viento Transversal Vertical Succion Derecho	0.941176471	2	36.45
1T2-3D	Viento Transversal - Vertical Empuje Derecho	0.941176471	2	-36.45
2T2-3D	Viento Transversal Vertical Succion Derecho	0.941176471	2	36.45
2T2-3D	Viento Transversal - Vertical Empuje Derecho	0.941176471	2	-36.45
3T2-3D	Viento Transversal Vertical Succion Derecho	0.941176471	2	36.45
3T2-3D	Viento Transversal - Vertical Empuje Derecho	0.941176471	2	-36.45

## I.9. Cargas puntuales sobre barras

TABLE: Frame Loads - Point				
Frame	LoadPat	RelDist	AbsDist	Force
Text	Text	Unitless	m	KN
1T0-1D	Vehiculo Pesado Carril Virtual 1 Transversal	0.447058824	0.95	228
	Apoyo			
14T0-1D	Vehiculo Pesado Carril Virtual 1 Transversal	9.41E-02	0.2	228
14T0-1D	Vehiculo Pesado Carril Virtual 1 Longitudinal	0.964705882	2.05	228
14T0-1D	Vehiculo Pesado Carril Virtual 2 Longitudinal	0.729411765	1.55	152
24T0-1D	Vehiculo Pesado Carril Virtual 1 Longitudinal	0.964705882	2.05	228



4T2-3D	Viento Transversal Vertical Succion Derecho	0.941176471	2	36.45
4T2-3D	Viento Transversal - Vertical Empuje Derecho	0.941176471	2	-36.45
5T2-3D	Viento Transversal Vertical Succion Derecho	0.941176471	2	36.45
5T2-3D	Viento Transversal - Vertical Empuje Derecho	0.941176471	2	-36.45
6T2-3D	Viento Transversal Vertical Succion Derecho	0.941176471	2	36.45
6T2-3D	Viento Transversal - Vertical Empuje Derecho	0.941176471	2	-36.45
7T2-3D	Viento Transversal Vertical Succion Derecho	0.941176471	2	36.45
7T2-3D	Viento Transversal - Vertical Empuje Derecho	0.941176471	2	-36.45
8T2-3D	Viento Transversal Vertical Succion Derecho	0.941176471	2	36.45
8T2-3D	Viento Transversal - Vertical Empuje Derecho	0.941176471	2	-36.45
9T2-3D	Viento Transversal Vertical Succion Derecho	0.941176471	2	36.45
9T2-3D	Viento Transversal - Vertical Empuje Derecho	0.941176471	2	-36.45
10T2-3D	Viento Transversal Vertical Succion Derecho	0.941176471	2	36.45
10T2-3D	Viento Transversal - Vertical Empuje Derecho	0.941176471	2	-36.45
11T2-3D	Viento Transversal Vertical Succion Derecho	0.941176471	2	36.45
11T2-3D	Viento Transversal - Vertical Empuje Derecho	0.941176471	2	-36.45
12T2-3D	Viento Transversal Vertical Succion Derecho	0.941176471	2	36.45
12T2-3D	Viento Transversal - Vertical Empuje Derecho	0.941176471	2	-36.45
13T2-3D	Viento Transversal Vertical Succion Derecho	0.941176471	2	36.45
13T2-3D	Viento Transversal - Vertical Empuje Derecho	0.941176471	2	-36.45
14T2-3D	Viento Transversal Vertical Succion Derecho	0.941176471	2	36.45
14T2-3D	Viento Transversal - Vertical Empuje Derecho	0.941176471	2	-36.45
15T2-3D	Viento Transversal Vertical Succion Derecho	0.941176471	2	36.45
15T2-3D	Viento Transversal - Vertical Empuje Derecho	0.941176471	2	-36.45
16T2-3D	Viento Transversal Vertical Succion Derecho	0.941176471	2	36.45
16T2-3D	Viento Transversal - Vertical Empuje Derecho	0.941176471	2	-36.45
17T2-3D	Viento Transversal Vertical Succion Derecho	0.941176471	2	36.45
17T2-3D	Viento Transversal - Vertical Empuje Derecho	0.941176471	2	-36.45
18T2-3D	Viento Transversal Vertical Succion Derecho	0.941176471	2	36.45
18T2-3D	Viento Transversal - Vertical Empuje Derecho	0.941176471	2	-36.45
19T2-3D	Viento Transversal Vertical Succion Derecho	0.941176471	2	36.45
19T2-3D	Viento Transversal - Vertical Empuje Derecho	0.941176471	2	-36.45
20T2-3D	Viento Transversal Vertical Succion Derecho	0.941176471	2	36.45
20T2-3D	Viento Transversal - Vertical Empuje Derecho	0.941176471	2	-36.45
21T2-3D	Viento Transversal Vertical Succion Derecho	0.941176471	2	36.45
21T2-3D	Viento Transversal - Vertical Empuje Derecho	0.941176471	2	-36.45
22T2-3D	Viento Transversal Vertical Succion Derecho	0.941176471	2	36.45
22T2-3D	Viento Transversal - Vertical Empuje Derecho	0.941176471	2	-36.45

23T2-3D	Viento Transversal Vertical Succion Derecho	0.941176471	2	36.45
23T2-3D	Viento Transversal - Vertical Empuje Derecho	0.941176471	2	-36.45
24T2-3D	Viento Transversal Vertical Succion Derecho	0.941176471	2	36.45
24T2-3D	Viento Transversal - Vertical Empuje Derecho	0.941176471	2	-36.45
1T3-4D	Bloque Hormigon	0.846135831	1.375	74.3
2T3-4D	Bloque Hormigon	0.846135831	1.375	74.3
3T3-4D	Bloque Hormigon	0.846135831	1.375	74.3
4T3-4D	Bloque Hormigon	0.846135831	1.375	74.3
5T3-4D	Bloque Hormigon	0.846135831	1.375	74.3
6T3-4D	Bloque Hormigon	0.846135831	1.375	74.3
7T3-4D	Bloque Hormigon	0.846135831	1.375	74.3
8T3-4D	Bloque Hormigon	0.846135831	1.375	74.3
9T3-4D	Bloque Hormigon	0.846135831	1.375	74.3
10T3-4D	Bloque Hormigon	0.846135831	1.375	74.3
11T3-4D	Bloque Hormigon	0.846135831	1.375	74.3
12T3-4D	Bloque Hormigon	0.846135831	1.375	74.3
13T3-4D	Bloque Hormigon	0.846135831	1.375	74.3
14T3-4D	Bloque Hormigon	0.846135831	1.375	74.3
15T3-4D	Bloque Hormigon	0.846135831	1.375	74.3
16T3-4D	Bloque Hormigon	0.846135831	1.375	74.3
17T3-4D	Bloque Hormigon	0.846135831	1.375	74.3
18T3-4D	Bloque Hormigon	0.846135831	1.375	74.3
19T3-4D	Bloque Hormigon	0.846135831	1.375	74.3
20T3-4D	Bloque Hormigon	0.846135831	1.375	74.3
21T3-4D	Bloque Hormigon	0.846135831	1.375	74.3
22T3-4D	Bloque Hormigon	0.846135831	1.375	74.3
23T3-4D	Bloque Hormigon	0.846135831	1.375	74.3
24T3-4D	Bloque Hormigon	0.846135831	1.375	74.3
1T3-4I	Bloque Hormigon	0.846135831	1.375	74.3
2T3-4I	Bloque Hormigon	0.846135831	1.375	74.3
3T3-4I	Bloque Hormigon	0.846135831	1.375	74.3
4T3-4I	Bloque Hormigon	0.846135831	1.375	74.3
5T3-4I	Bloque Hormigon	0.846135831	1.375	74.3
6T3-4I	Bloque Hormigon	0.846135831	1.375	74.3
7T3-4I	Bloque Hormigon	0.846135831	1.375	74.3
8T3-4I	Bloque Hormigon	0.846135831	1.375	74.3
9T3-4I	Bloque Hormigon	0.846135831	1.375	74.3
10T3-4I	Bloque Hormigon	0.846135831	1.375	74.3



11T3-4I	Bloque Hormigon	0.846135831	1.375	74.3
12T3-4I	Bloque Hormigon	0.846135831	1.375	74.3
13T3-4I	Bloque Hormigon	0.846135831	1.375	74.3
14T3-4I	Bloque Hormigon	0.846135831	1.375	74.3
15T3-4I	Bloque Hormigon	0.846135831	1.375	74.3
16T3-4I	Bloque Hormigon	0.846135831	1.375	74.3
17T3-4I	Bloque Hormigon	0.846135831	1.375	74.3
18T3-4I	Bloque Hormigon	0.846135831	1.375	74.3
19T3-4I	Bloque Hormigon	0.846135831	1.375	74.3
20T3-4I	Bloque Hormigon	0.846135831	1.375	74.3
21T3-4I	Bloque Hormigon	0.846135831	1.375	74.3
22T3-4I	Bloque Hormigon	0.846135831	1.375	74.3
23T3-4I	Bloque Hormigon	0.846135831	1.375	74.3
24T3-4I	Bloque Hormigon	0.846135831	1.375	74.3
1T2-3I	Viento Transversal - Vertical Succion Izquierdo	0.941176471	2	36.45
1T2-3I	Viento Transversal - Vertical Empuje Izquierdo	0.941176471	2	-36.45
2T2-3I	Viento Transversal - Vertical Succion Izquierdo	0.941176471	2	36.45
2T2-3I	Viento Transversal - Vertical Empuje Izquierdo	0.941176471	2	-36.45
3T2-3I	Viento Transversal - Vertical Succion Izquierdo	0.941176471	2	36.45
3T2-3I	Viento Transversal - Vertical Empuje Izquierdo	0.941176471	2	-36.45
4T2-3I	Viento Transversal - Vertical Succion Izquierdo	0.941176471	2	36.45
4T2-3I	Viento Transversal - Vertical Empuje Izquierdo	0.941176471	2	-36.45
5T2-3I	Viento Transversal - Vertical Succion Izquierdo	0.941176471	2	36.45
5T2-3I	Viento Transversal - Vertical Empuje Izquierdo	0.941176471	2	-36.45
6T2-3I	Viento Transversal - Vertical Succion Izquierdo	0.941176471	2	36.45
6T2-3I	Viento Transversal - Vertical Empuje Izquierdo	0.941176471	2	-36.45
7T2-3I	Viento Transversal - Vertical Succion Izquierdo	0.941176471	2	36.45
7T2-3I	Viento Transversal - Vertical Empuje Izquierdo	0.941176471	2	-36.45
8T2-3I	Viento Transversal - Vertical Succion Izquierdo	0.941176471	2	36.45
8T2-3I	Viento Transversal - Vertical Empuje Izquierdo	0.941176471	2	-36.45
9T2-3I	Viento Transversal - Vertical Succion Izquierdo	0.941176471	2	36.45
9T2-3I	Viento Transversal - Vertical Empuje Izquierdo	0.941176471	2	-36.45
10T2-3I	Viento Transversal - Vertical Succion Izquierdo	0.941176471	2	36.45
10T2-3I	Viento Transversal - Vertical Empuje Izquierdo	0.941176471	2	-36.45
11T2-3I	Viento Transversal - Vertical Succion Izquierdo	0.941176471	2	36.45
11T2-3I	Viento Transversal - Vertical Empuje Izquierdo	0.941176471	2	-36.45
12T2-3I	Viento Transversal - Vertical Succion Izquierdo	0.941176471	2	36.45
12T2-3I	Viento Transversal - Vertical Empuje Izquierdo	0.941176471	2	-36.45

13T2-3I	Viento Transversal - Vertical Succion Izquierdo	0.941176471	2	36.45
13T2-3I	Viento Transversal - Vertical Empuje Izquierdo	0.941176471	2	-36.45
14T2-3I	Viento Transversal - Vertical Succion Izquierdo	0.941176471	2	36.45
14T2-3I	Viento Transversal - Vertical Empuje Izquierdo	0.941176471	2	-36.45
15T2-3I	Viento Transversal - Vertical Succion Izquierdo	0.941176471	2	36.45
15T2-3I	Viento Transversal - Vertical Empuje Izquierdo	0.941176471	2	-36.45
16T2-3I	Viento Transversal - Vertical Succion Izquierdo	0.941176471	2	36.45
16T2-3I	Viento Transversal - Vertical Empuje Izquierdo	0.941176471	2	-36.45
17T2-3I	Viento Transversal - Vertical Succion Izquierdo	0.941176471	2	36.45
17T2-3I	Viento Transversal - Vertical Empuje Izquierdo	0.941176471	2	-36.45
18T2-3I	Viento Transversal - Vertical Succion Izquierdo	0.941176471	2	36.45
18T2-3I	Viento Transversal - Vertical Empuje Izquierdo	0.941176471	2	-36.45
19T2-3I	Viento Transversal - Vertical Succion Izquierdo	0.941176471	2	36.45
19T2-3I	Viento Transversal - Vertical Empuje Izquierdo	0.941176471	2	-36.45
20T2-3I	Viento Transversal - Vertical Succion Izquierdo	0.941176471	2	36.45
20T2-3I	Viento Transversal - Vertical Empuje Izquierdo	0.941176471	2	-36.45
21T2-3I	Viento Transversal - Vertical Succion Izquierdo	0.941176471	2	36.45
21T2-3I	Viento Transversal - Vertical Empuje Izquierdo	0.941176471	2	-36.45
22T2-3I	Viento Transversal - Vertical Succion Izquierdo	0.941176471	2	36.45
22T2-3I	Viento Transversal - Vertical Empuje Izquierdo	0.941176471	2	-36.45
23T2-3I	Viento Transversal - Vertical Succion Izquierdo	0.941176471	2	36.45
23T2-3I	Viento Transversal - Vertical Empuje Izquierdo	0.941176471	2	-36.45
24T2-3I	Viento Transversal - Vertical Succion Izquierdo	0.941176471	2	36.45
24T2-3I	Viento Transversal - Vertical Empuje Izquierdo	0.941176471	2	-36.45
1T1-2I	Bordillo Bici	0.941176471	2	0.153
1T1-2I	Vehiculo Pesado Carril Virtual 2 Transversal Apoyo	0.388235294	0.825	152
2T1-2I	Bordillo Bici	0.941176471	2	0.153
3T1-2I	Bordillo Bici	0.941176471	2	0.153
4T1-2I	Bordillo Bici	0.941176471	2	0.153
5T1-2I	Bordillo Bici	0.941176471	2	0.153
6T1-2I	Bordillo Bici	0.941176471	2	0.153
7T1-2I	Bordillo Bici	0.941176471	2	0.153
8T1-2I	Bordillo Bici	0.941176471	2	0.153
9T1-2I	Bordillo Bici	0.941176471	2	0.153
10T1-2I	Bordillo Bici	0.941176471	2	0.153
11T1-2I	Bordillo Bici	0.941176471	2	0.153
12T1-2I	Bordillo Bici	0.941176471	2	0.153



13T1-2I	Bordillo Bici	0.941176471	2	0.153
14T1-2I	Bordillo Bici	0.941176471	2	0.153
14T1-2I	Vehiculo Pesado Carril Virtual 2 Transversal	3.53E-02	0.075	152
15T1-2I	Bordillo Bici	0.941176471	2	0.153
16T1-2I	Bordillo Bici	0.941176471	2	0.153
17T1-2I	Bordillo Bici	0.941176471	2	0.153
18T1-2I	Bordillo Bici	0.941176471	2	0.153
19T1-2I	Bordillo Bici	0.941176471	2	0.153
20T1-2I	Bordillo Bici	0.941176471	2	0.153
21T1-2I	Bordillo Bici	0.941176471	2	0.153

22T1-2I	Bordillo Bici	0.941176471	2	0.153
23T1-2I	Bordillo Bici	0.941176471	2	0.153
24T1-2I	Bordillo Bici	0.941176471	2	0.153
1T0-1I	Vehiculo Pesado Carril Virtual 2 Transversal Apoyo	0.447058527	0.95	152
14T0-1I	Vehiculo Pesado Carril Virtual 2 Transversal	9.41E-02	0.2	152
14T0-1I	Vehiculo Pesado Carril Virtual 2 Longitudinal	0.211764566	0.45	152
24T0-1I	Vehiculo Pesado Carril Virtual 2 Longitudinal Apoyo	0.211764566	0.45	152

## I.10. Cargas uniformemente distribuidas

TABLE: Frame Loads - Distributed								
Frame	LoadPat	Dir	RelDistA	RelDistB	AbsDistA	AbsDistB	FOverLA	FOverLB
Text	Text	Text	Unitless	Unitless	m	m	KN/m	KN/m
1J6-7D	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
1J6-7D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
1J6-7D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
1J6-7D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
1J6-7D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
2J6-7D	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
2J6-7D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
2J6-7D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
2J6-7D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
2J6-7D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
3J6-7D	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
3J6-7D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
3J6-7D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
3J6-7D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
3J6-7D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
4J6-7D	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
4J6-7D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
4J6-7D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
4J6-7D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
4J6-7D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
5J6-7D	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89





5J6-7D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
5J6-7D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
5J6-7D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
5J6-7D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
6J6-7D	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
6J6-7D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
6J6-7D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
6J6-7D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
6J6-7D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
7J6-7D	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
7J6-7D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
7J6-7D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
7J6-7D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
7J6-7D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
8J6-7D	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
8J6-7D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
8J6-7D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
8J6-7D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
8J6-7D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
9J6-7D	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
9J6-7D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
9J6-7D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
9J6-7D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
9J6-7D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
10J6-7D	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
10J6-7D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
10J6-7D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
10J6-7D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
10J6-7D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
11J6-7D	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
11J6-7D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
11J6-7D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
11J6-7D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
11J6-7D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
12J6-7D	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
12J6-7D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
12J6-7D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
12J6-7D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053





12J6-7D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
13J6-7D	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
13J6-7D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
13J6-7D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
13J6-7D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
13J6-7D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
14J6-7D	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
14J6-7D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
14J6-7D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
14J6-7D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
14J6-7D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
15J6-7D	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
15J6-7D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
15J6-7D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
15J6-7D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
15J6-7D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
16J6-7D	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
16J6-7D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
16J6-7D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
16J6-7D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
16J6-7D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
17J6-7D	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
17J6-7D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
17J6-7D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
17J6-7D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
17J6-7D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
18J6-7D	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
18J6-7D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
18J6-7D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
18J6-7D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
18J6-7D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
19J6-7D	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
19J6-7D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
19J6-7D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
19J6-7D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
19J6-7D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
20J6-7D	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
20J6-7D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5



20J6-7D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
20J6-7D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
20J6-7D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
21J6-7D	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
21J6-7D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
21J6-7D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
21J6-7D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
21J6-7D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
22J6-7D	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
22J6-7D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
22J6-7D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
22J6-7D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
22J6-7D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
23J6-7D	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
23J6-7D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
23J6-7D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
23J6-7D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
23J6-7D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
24J6-7D	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
24J6-7D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
24J6-7D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
24J6-7D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
24J6-7D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
1J5-6D	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
1J5-6D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
1J5-6D	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
1J5-6D	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
1J5-6D	Nieve Tablero	Gravity	0	1	0	1.623308146	3.75	3.75
2J5-6D	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
2J5-6D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
2J5-6D	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
2J5-6D	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
2J5-6D	Nieve Tablero	Gravity	0	1	0	1.623308146	3.75	3.75
3J5-6D	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
3J5-6D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
3J5-6D	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
3J5-6D	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
3J5-6D	Nieve Tablero	Gravity	0	1	0	1.623308146	3.75	3.75



4J5-6D	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
4J5-6D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
4J5-6D	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
4J5-6D	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
4J5-6D	Nieve Tablero	Gravity	0	1	0	1.623308146	3.75	3.75
5J5-6D	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
5J5-6D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
5J5-6D	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
5J5-6D	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
5J5-6D	Nieve Tablero	Gravity	0	1	0	1.623308146	3.75	3.75
6J5-6D	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
6J5-6D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
6J5-6D	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
6J5-6D	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
6J5-6D	Nieve Tablero	Gravity	0	1	0	1.623308146	3.75	3.75
7J5-6D	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
7J5-6D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
7J5-6D	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
7J5-6D	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
7J5-6D	Nieve Tablero	Gravity	0	1	0	1.623308146	3.75	3.75
8J5-6D	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
8J5-6D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
8J5-6D	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
8J5-6D	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
8J5-6D	Nieve Tablero	Gravity	0	1	0	1.623308146	3.75	3.75
9J5-6D	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
9J5-6D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
9J5-6D	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
9J5-6D	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
9J5-6D	Nieve Tablero	Gravity	0	1	0	1.623308146	3.75	3.75
10J5-6D	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
10J5-6D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
10J5-6D	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
10J5-6D	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
10J5-6D	Nieve Tablero	Gravity	0	1	0	1.623308146	3.75	3.75
11J5-6D	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
11J5-6D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
11J5-6D	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053



11J5-6D	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
11J5-6D	Nieve Tablero	Gravity	0	1	0	1.623308146	3.75	3.75
12J5-6D	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
12J5-6D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
12J5-6D	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
12J5-6D	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
12J5-6D	Nieve Tablero	Gravity	0	1	0	1.623308146	3.75	3.75
13J5-6D	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
13J5-6D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
13J5-6D	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
13J5-6D	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
13J5-6D	Nieve Tablero	Gravity	0	1	0	1.623308146	3.75	3.75
14J5-6D	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
14J5-6D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
14J5-6D	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
14J5-6D	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
14J5-6D	Nieve Tablero	Gravity	0	1	0	1.623308146	3.75	3.75
15J5-6D	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
15J5-6D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
15J5-6D	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
15J5-6D	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
15J5-6D	Nieve Tablero	Gravity	0	1	0	1.623308146	3.75	3.75
16J5-6D	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
16J5-6D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
16J5-6D	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
16J5-6D	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
16J5-6D	Nieve Tablero	Gravity	0	1	0	1.623308146	3.75	3.75
17J5-6D	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
17J5-6D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
17J5-6D	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
17J5-6D	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
17J5-6D	Nieve Tablero	Gravity	0	1	0	1.623308146	3.75	3.75
18J5-6D	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
18J5-6D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
18J5-6D	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
18J5-6D	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
18J5-6D	Nieve Tablero	Gravity	0	1	0	1.623308146	3.75	3.75
19J5-6D	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89



19J5-6D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
19J5-6D	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
19J5-6D	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
19J5-6D	Nieve Tablero	Gravity	0	1	0	1.623308146	3.75	3.75
20J5-6D	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
20J5-6D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
20J5-6D	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
20J5-6D	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
20J5-6D	Nieve Tablero	Gravity	0	1	0	1.623308146	3.75	3.75
21J5-6D	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
21J5-6D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
21J5-6D	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
21J5-6D	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
21J5-6D	Nieve Tablero	Gravity	0	1	0	1.623308146	3.75	3.75
22J5-6D	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
22J5-6D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
22J5-6D	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
22J5-6D	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
22J5-6D	Nieve Tablero	Gravity	0	1	0	1.623308146	3.75	3.75
23J5-6D	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
23J5-6D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
23J5-6D	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
23J5-6D	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
23J5-6D	Nieve Tablero	Gravity	0	1	0	1.623308146	3.75	3.75
24J5-6D	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
24J5-6D	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
24J5-6D	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
24J5-6D	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
24J5-6D	Nieve Tablero	Gravity	0	1	0	1.623308146	3.75	3.75
1T0-1D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
1T0-1D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	1	0	2.125	22.5	22.5
1T0-1D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0.588235294	1	1.25	2.125	22.5	22.5
1T0-1D	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.588235294	0	1.25	6.25	6.25
1T0-1D	Frenado y Arranque Carga Horizontal Tempelhof	Y	0	1	0	2.125	-7.25	-7.25
1T0-1D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
1T0-1D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
1T0-1D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
2T0-1D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625





2T0-1D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	1	0	2.125	22.5	22.5
2T0-1D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0.588235294	1	1.25	2.125	22.5	22.5
2T0-1D	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.588235294	0	1.25	6.25	6.25
2T0-1D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
2T0-1D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
2T0-1D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
3T0-1D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
3T0-1D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	1	0	2.125	22.5	22.5
3T0-1D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0.588235294	1	1.25	2.125	22.5	22.5
3T0-1D	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.588235294	0	1.25	6.25	6.25
3T0-1D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
3T0-1D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
3T0-1D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
4T0-1D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
4T0-1D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	1	0	2.125	22.5	22.5
4T0-1D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0.588235294	1	1.25	2.125	22.5	22.5
4T0-1D	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.588235294	0	1.25	6.25	6.25
4T0-1D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
4T0-1D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
4T0-1D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
5T0-1D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
5T0-1D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	1	0	2.125	22.5	22.5
5T0-1D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0.588235294	1	1.25	2.125	22.5	22.5
5T0-1D	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.588235294	0	1.25	6.25	6.25
5T0-1D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
5T0-1D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
5T0-1D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
6T0-1D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
6T0-1D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	1	0	2.125	22.5	22.5
6T0-1D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0.588235294	1	1.25	2.125	22.5	22.5
6T0-1D	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.588235294	0	1.25	6.25	6.25
6T0-1D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
6T0-1D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
6T0-1D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
7T0-1D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
7T0-1D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	1	0	2.125	22.5	22.5
7T0-1D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0.588235294	1	1.25	2.125	22.5	22.5
7T0-1D	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.588235294	0	1.25	6.25	6.25



7T0-1D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
7T0-1D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
7T0-1D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
8T0-1D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
8T0-1D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	1	0	2.125	22.5	22.5
8T0-1D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0.588235294	1	1.25	2.125	22.5	22.5
8T0-1D	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.588235294	0	1.25	6.25	6.25
8T0-1D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
8T0-1D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
8T0-1D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
9T0-1D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
9T0-1D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	1	0	2.125	22.5	22.5
9T0-1D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0.588235294	1	1.25	2.125	22.5	22.5
9T0-1D	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.588235294	0	1.25	6.25	6.25
9T0-1D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
9T0-1D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
9T0-1D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
10T0-1D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
10T0-1D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	1	0	2.125	22.5	22.5
10T0-1D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0.588235294	1	1.25	2.125	22.5	22.5
10T0-1D	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.588235294	0	1.25	6.25	6.25
10T0-1D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
10T0-1D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
10T0-1D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
11T0-1D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
11T0-1D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	1	0	2.125	22.5	22.5
11T0-1D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0.588235294	1	1.25	2.125	22.5	22.5
11T0-1D	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.588235294	0	1.25	6.25	6.25
11T0-1D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
11T0-1D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
11T0-1D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
12T0-1D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
12T0-1D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	1	0	2.125	22.5	22.5
12T0-1D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0.588235294	1	1.25	2.125	22.5	22.5
12T0-1D	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.588235294	0	1.25	6.25	6.25
12T0-1D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
12T0-1D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
12T0-1D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75



13T0-1D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
13T0-1D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	1	0	2.125	22.5	22.5
13T0-1D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0.588235294	1	1.25	2.125	22.5	22.5
13T0-1D	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.588235294	0	1.25	6.25	6.25
13T0-1D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
13T0-1D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
13T0-1D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
14T0-1D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
14T0-1D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	1	0	2.125	22.5	22.5
14T0-1D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0.588235294	1	1.25	2.125	22.5	22.5
14T0-1D	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.588235294	0	1.25	6.25	6.25
14T0-1D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
14T0-1D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
14T0-1D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
15T0-1D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
15T0-1D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	1	0	2.125	22.5	22.5
15T0-1D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0.588235294	1	1.25	2.125	22.5	22.5
15T0-1D	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.588235294	0	1.25	6.25	6.25
15T0-1D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
15T0-1D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
15T0-1D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
16T0-1D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
16T0-1D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	1	0	2.125	22.5	22.5
16T0-1D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0.588235294	1	1.25	2.125	22.5	22.5
16T0-1D	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.588235294	0	1.25	6.25	6.25
16T0-1D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
16T0-1D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
16T0-1D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
17T0-1D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
17T0-1D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	1	0	2.125	22.5	22.5
17T0-1D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0.588235294	1	1.25	2.125	22.5	22.5
17T0-1D	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.588235294	0	1.25	6.25	6.25
17T0-1D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
17T0-1D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
17T0-1D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
18T0-1D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
18T0-1D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	1	0	2.125	22.5	22.5
18T0-1D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0.588235294	1	1.25	2.125	22.5	22.5



18T0-1D	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.588235294	0	1.25	6.25	6.25
18T0-1D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
18T0-1D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
18T0-1D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
19T0-1D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
19T0-1D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	1	0	2.125	22.5	22.5
19T0-1D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0.588235294	1	1.25	2.125	22.5	22.5
19T0-1D	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.588235294	0	1.25	6.25	6.25
19T0-1D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
19T0-1D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
19T0-1D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
20T0-1D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
20T0-1D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	1	0	2.125	22.5	22.5
20T0-1D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0.588235294	1	1.25	2.125	22.5	22.5
20T0-1D	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.588235294	0	1.25	6.25	6.25
20T0-1D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
20T0-1D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
20T0-1D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
21T0-1D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
21T0-1D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	1	0	2.125	22.5	22.5
21T0-1D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0.588235294	1	1.25	2.125	22.5	22.5
21T0-1D	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.588235294	0	1.25	6.25	6.25
21T0-1D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
21T0-1D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
21T0-1D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
22T0-1D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
22T0-1D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	1	0	2.125	22.5	22.5
22T0-1D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0.588235294	1	1.25	2.125	22.5	22.5
22T0-1D	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.588235294	0	1.25	6.25	6.25
22T0-1D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
22T0-1D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
22T0-1D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
23T0-1D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
23T0-1D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	1	0	2.125	22.5	22.5
23T0-1D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0.588235294	1	1.25	2.125	22.5	22.5
23T0-1D	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.588235294	0	1.25	6.25	6.25
23T0-1D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
23T0-1D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053



23T0-1D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
24T0-1D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
24T0-1D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	1	0	2.125	22.5	22.5
24T0-1D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0.588235294	1	1.25	2.125	22.5	22.5
24T0-1D	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.588235294	0	1.25	6.25	6.25
24T0-1D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
24T0-1D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
24T0-1D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
1T1-2D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
1T1-2D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	0.411764706	0	0.875	22.5	22.5
1T1-2D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0	1	0	2.125	22.5	22.5
1T1-2D	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
1T1-2D	Frenado y Arranque Carga Horizontal Tempelhof	Y	0	0.411764706	0	0.875	-7.25	-7.25
1T1-2D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
1T1-2D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
1T1-2D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
2T1-2D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
2T1-2D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	0.411764706	0	0.875	22.5	22.5
2T1-2D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0	1	0	2.125	22.5	22.5
2T1-2D	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
2T1-2D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
2T1-2D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
2T1-2D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
3T1-2D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
3T1-2D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	0.411764706	0	0.875	22.5	22.5
3T1-2D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0	1	0	2.125	22.5	22.5
3T1-2D	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
3T1-2D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
3T1-2D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
3T1-2D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
4T1-2D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
4T1-2D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	0.411764706	0	0.875	22.5	22.5
4T1-2D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0	1	0	2.125	22.5	22.5
4T1-2D	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
4T1-2D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
4T1-2D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
4T1-2D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
5T1-2D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625





5T1-2D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	0.411764706	0	0.875	22.5	22.5
5T1-2D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0	1	0	2.125	22.5	22.5
5T1-2D	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
5T1-2D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
5T1-2D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
5T1-2D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
6T1-2D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
6T1-2D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	0.411764706	0	0.875	22.5	22.5
6T1-2D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0	1	0	2.125	22.5	22.5
6T1-2D	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
6T1-2D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
6T1-2D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
6T1-2D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
7T1-2D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
7T1-2D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	0.411764706	0	0.875	22.5	22.5
7T1-2D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0	1	0	2.125	22.5	22.5
7T1-2D	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
7T1-2D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
7T1-2D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
7T1-2D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
8T1-2D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
8T1-2D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	0.411764706	0	0.875	22.5	22.5
8T1-2D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0	1	0	2.125	22.5	22.5
8T1-2D	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
8T1-2D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
8T1-2D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
8T1-2D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
9T1-2D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
9T1-2D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	0.411764706	0	0.875	22.5	22.5
9T1-2D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0	1	0	2.125	22.5	22.5
9T1-2D	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
9T1-2D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
9T1-2D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
9T1-2D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
10T1-2D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
10T1-2D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	0.411764706	0	0.875	22.5	22.5
10T1-2D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0	1	0	2.125	22.5	22.5
10T1-2D	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25



10T1-2D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
10T1-2D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
10T1-2D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
11T1-2D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
11T1-2D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	0.411764706	0	0.875	22.5	22.5
11T1-2D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0	1	0	2.125	22.5	22.5
11T1-2D	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
11T1-2D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
11T1-2D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
11T1-2D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
12T1-2D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
12T1-2D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	0.411764706	0	0.875	22.5	22.5
12T1-2D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0	1	0	2.125	22.5	22.5
12T1-2D	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
12T1-2D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
12T1-2D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
12T1-2D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
13T1-2D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
13T1-2D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	0.411764706	0	0.875	22.5	22.5
13T1-2D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0	1	0	2.125	22.5	22.5
13T1-2D	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
13T1-2D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
13T1-2D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
13T1-2D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
14T1-2D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
14T1-2D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	0.411764706	0	0.875	22.5	22.5
14T1-2D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0	1	0	2.125	22.5	22.5
14T1-2D	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
14T1-2D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
14T1-2D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
14T1-2D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
15T1-2D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
15T1-2D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	0.411764706	0	0.875	22.5	22.5
15T1-2D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0	1	0	2.125	22.5	22.5
15T1-2D	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
15T1-2D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
15T1-2D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
15T1-2D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75



16T1-2D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
16T1-2D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	0.411764706	0	0.875	22.5	22.5
16T1-2D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0	1	0	2.125	22.5	22.5
16T1-2D	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
16T1-2D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
16T1-2D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
16T1-2D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
17T1-2D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
17T1-2D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	0.411764706	0	0.875	22.5	22.5
17T1-2D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0	1	0	2.125	22.5	22.5
17T1-2D	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
17T1-2D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
17T1-2D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
17T1-2D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
18T1-2D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
18T1-2D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	0.411764706	0	0.875	22.5	22.5
18T1-2D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0	1	0	2.125	22.5	22.5
18T1-2D	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
18T1-2D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
18T1-2D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
18T1-2D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
19T1-2D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
19T1-2D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	0.411764706	0	0.875	22.5	22.5
19T1-2D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0	1	0	2.125	22.5	22.5
19T1-2D	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
19T1-2D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
19T1-2D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
19T1-2D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
20T1-2D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
20T1-2D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	0.411764706	0	0.875	22.5	22.5
20T1-2D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0	1	0	2.125	22.5	22.5
20T1-2D	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
20T1-2D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
20T1-2D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
20T1-2D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
21T1-2D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
21T1-2D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	0.411764706	0	0.875	22.5	22.5
21T1-2D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0	1	0	2.125	22.5	22.5



21T1-2D	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
21T1-2D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
21T1-2D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
21T1-2D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
22T1-2D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
22T1-2D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	0.411764706	0	0.875	22.5	22.5
22T1-2D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0	1	0	2.125	22.5	22.5
22T1-2D	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
22T1-2D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
22T1-2D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
22T1-2D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
23T1-2D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
23T1-2D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	0.411764706	0	0.875	22.5	22.5
23T1-2D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0	1	0	2.125	22.5	22.5
23T1-2D	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
23T1-2D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
23T1-2D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
23T1-2D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
24T1-2D	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
24T1-2D	Sobrecarga Uniforme Carril Virtual 1 Transversal	Gravity	0	0.411764706	0	0.875	22.5	22.5
24T1-2D	Sobrecarga Uniforme Carril Virtual 1 Longitudinal	Gravity	0	1	0	2.125	22.5	22.5
24T1-2D	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
24T1-2D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
24T1-2D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
24T1-2D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
1T2-3D	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
1T2-3D	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
1T2-3D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
1T2-3D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
1T2-3D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
2T2-3D	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
2T2-3D	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
2T2-3D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
2T2-3D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
2T2-3D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
3T2-3D	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
3T2-3D	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
3T2-3D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053



3T2-3D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
3T2-3D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
4T2-3D	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
4T2-3D	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
4T2-3D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
4T2-3D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
4T2-3D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
5T2-3D	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
5T2-3D	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
5T2-3D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
5T2-3D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
5T2-3D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
6T2-3D	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
6T2-3D	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
6T2-3D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
6T2-3D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
6T2-3D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
7T2-3D	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
7T2-3D	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
7T2-3D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
7T2-3D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
7T2-3D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
8T2-3D	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
8T2-3D	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
8T2-3D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
8T2-3D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
8T2-3D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
9T2-3D	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
9T2-3D	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
9T2-3D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
9T2-3D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
9T2-3D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
10T2-3D	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
10T2-3D	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
10T2-3D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
10T2-3D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
10T2-3D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
11T2-3D	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625





11T2-3D	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
11T2-3D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
11T2-3D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
11T2-3D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
12T2-3D	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
12T2-3D	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
12T2-3D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
12T2-3D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
12T2-3D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
13T2-3D	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
13T2-3D	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
13T2-3D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
13T2-3D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
13T2-3D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
14T2-3D	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
14T2-3D	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
14T2-3D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
14T2-3D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
14T2-3D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
15T2-3D	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
15T2-3D	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
15T2-3D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
15T2-3D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
15T2-3D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
16T2-3D	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
16T2-3D	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
16T2-3D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
16T2-3D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
16T2-3D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
17T2-3D	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
17T2-3D	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
17T2-3D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
17T2-3D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
17T2-3D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
18T2-3D	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
18T2-3D	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
18T2-3D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
18T2-3D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053



18T2-3D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
19T2-3D	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
19T2-3D	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
19T2-3D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
19T2-3D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
19T2-3D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
20T2-3D	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
20T2-3D	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
20T2-3D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
20T2-3D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
20T2-3D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
21T2-3D	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
21T2-3D	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
21T2-3D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
21T2-3D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
21T2-3D	Nieve Tablero	Gravity	0	1	0	2.125	3.75	3.75
22T2-3D	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
22T2-3D	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
22T2-3D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
22T2-3D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
22T2-3D	Nieve Tablero	Gravity	0	1	0	2.125	3	3
23T2-3D	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
23T2-3D	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
23T2-3D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
23T2-3D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
23T2-3D	Nieve Tablero	Gravity	0	1	0	2.125	3	3
24T2-3D	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
24T2-3D	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
24T2-3D	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
24T2-3D	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
24T2-3D	Nieve Tablero	Gravity	0	1	0	2.125	3	3
1T3-4D	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
1T3-4D	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
1T3-4D	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
2T3-4D	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
2T3-4D	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
2T3-4D	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
3T3-4D	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053



3T3-4D	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
3T3-4D	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
4T3-4D	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
4T3-4D	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
4T3-4D	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
5T3-4D	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
5T3-4D	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
5T3-4D	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
6T3-4D	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
6T3-4D	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
6T3-4D	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
7T3-4D	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
7T3-4D	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
7T3-4D	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
8T3-4D	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
8T3-4D	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
8T3-4D	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
9T3-4D	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
9T3-4D	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
9T3-4D	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
10T3-4D	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
10T3-4D	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
10T3-4D	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
11T3-4D	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
11T3-4D	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
11T3-4D	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
12T3-4D	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
12T3-4D	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
12T3-4D	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
13T3-4D	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
13T3-4D	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
13T3-4D	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
14T3-4D	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
14T3-4D	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
14T3-4D	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
15T3-4D	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
15T3-4D	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
15T3-4D	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3



16T3-4D	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
16T3-4D	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
16T3-4D	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
17T3-4D	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
17T3-4D	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
17T3-4D	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
18T3-4D	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
18T3-4D	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
18T3-4D	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
19T3-4D	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
19T3-4D	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
19T3-4D	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
20T3-4D	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
20T3-4D	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
20T3-4D	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
21T3-4D	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
21T3-4D	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
21T3-4D	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
22T3-4D	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
22T3-4D	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
22T3-4D	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
23T3-4D	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
23T3-4D	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
23T3-4D	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
24T3-4D	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
24T3-4D	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
24T3-4D	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
1J6-7I	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
1J6-7I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
1J6-7I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
1J6-7I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
1J6-7I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
2J6-7I	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
2J6-7I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
2J6-7I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
2J6-7I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
2J6-7I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
3J6-7I	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89



3J6-7I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
3J6-7I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
3J6-7I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
3J6-7I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
4J6-7I	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
4J6-7I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
4J6-7I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
4J6-7I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
4J6-7I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
5J6-7I	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
5J6-7I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
5J6-7I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
5J6-7I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
5J6-7I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
6J6-7I	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
6J6-7I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
6J6-7I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
6J6-7I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
6J6-7I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
7J6-7I	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
7J6-7I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
7J6-7I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
7J6-7I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
7J6-7I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
8J6-7I	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
8J6-7I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
8J6-7I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
8J6-7I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
8J6-7I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
9J6-7I	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
9J6-7I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
9J6-7I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
9J6-7I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
9J6-7I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
10J6-7I	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
10J6-7I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
10J6-7I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
10J6-7I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053





10J6-7I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
11J6-7I	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
11J6-7I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
11J6-7I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
11J6-7I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
11J6-7I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
12J6-7I	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
12J6-7I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
12J6-7I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
12J6-7I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
12J6-7I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
13J6-7I	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
13J6-7I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
13J6-7I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
13J6-7I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
13J6-7I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
14J6-7I	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
14J6-7I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
14J6-7I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
14J6-7I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
14J6-7I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
15J6-7I	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
15J6-7I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
15J6-7I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
15J6-7I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
15J6-7I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
16J6-7I	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
16J6-7I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
16J6-7I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
16J6-7I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
16J6-7I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
17J6-7I	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
17J6-7I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
17J6-7I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
17J6-7I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
17J6-7I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
18J6-7I	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
18J6-7I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5



18J6-7I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
18J6-7I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
18J6-7I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
19J6-7I	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
19J6-7I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
19J6-7I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
19J6-7I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
19J6-7I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
20J6-7I	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
20J6-7I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
20J6-7I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
20J6-7I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
20J6-7I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
21J6-7I	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
21J6-7I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
21J6-7I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
21J6-7I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
21J6-7I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
22J6-7I	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
22J6-7I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
22J6-7I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
22J6-7I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
22J6-7I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
23J6-7I	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
23J6-7I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
23J6-7I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
23J6-7I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
23J6-7I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
24J6-7I	Pavimento Aceras	Gravity	0	1	0	2.125	1.89	1.89
24J6-7I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	2.125	12.5	12.5
24J6-7I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
24J6-7I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
24J6-7I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
1J5-6I	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
1J5-6I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
1J5-6I	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
1J5-6I	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
1J5-6I	Nieve Tablero	Gravity	0	1	0	1.623308146	3	3



2J5-6I	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
2J5-6I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
2J5-6I	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
2J5-6I	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
2J5-6I	Nieve Tablero	Gravity	0	1	0	1.623308146	3	3
3J5-6I	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
3J5-6I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
3J5-6I	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
3J5-6I	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
3J5-6I	Nieve Tablero	Gravity	0	1	0	1.623308146	3	3
4J5-6I	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
4J5-6I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
4J5-6I	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
4J5-6I	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
4J5-6I	Nieve Tablero	Gravity	0	1	0	1.623308146	3	3
5J5-6I	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
5J5-6I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
5J5-6I	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
5J5-6I	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
5J5-6I	Nieve Tablero	Gravity	0	1	0	1.623308146	3	3
6J5-6I	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
6J5-6I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
6J5-6I	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
6J5-6I	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
6J5-6I	Nieve Tablero	Gravity	0	1	0	1.623308146	3	3
7J5-6I	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
7J5-6I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
7J5-6I	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
7J5-6I	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
7J5-6I	Nieve Tablero	Gravity	0	1	0	1.623308146	3	3
8J5-6I	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
8J5-6I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
8J5-6I	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
8J5-6I	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
8J5-6I	Nieve Tablero	Gravity	0	1	0	1.623308146	3	3
9J5-6I	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
9J5-6I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
9J5-6I	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053



9J5-6I	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
9J5-6I	Nieve Tablero	Gravity	0	1	0	1.623308146	3	3
10J5-6I	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
10J5-6I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
10J5-6I	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
10J5-6I	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
10J5-6I	Nieve Tablero	Gravity	0	1	0	1.623308146	3	3
11J5-6I	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
11J5-6I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
11J5-6I	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
11J5-6I	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
11J5-6I	Nieve Tablero	Gravity	0	1	0	1.623308146	3	3
12J5-6I	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
12J5-6I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
12J5-6I	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
12J5-6I	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
12J5-6I	Nieve Tablero	Gravity	0	1	0	1.623308146	3	3
13J5-6I	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
13J5-6I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
13J5-6I	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
13J5-6I	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
13J5-6I	Nieve Tablero	Gravity	0	1	0	1.623308146	3	3
14J5-6I	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
14J5-6I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
14J5-6I	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
14J5-6I	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
14J5-6I	Nieve Tablero	Gravity	0	1	0	1.623308146	3	3
15J5-6I	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
15J5-6I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
15J5-6I	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
15J5-6I	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
15J5-6I	Nieve Tablero	Gravity	0	1	0	1.623308146	3	3
16J5-6I	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
16J5-6I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
16J5-6I	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
16J5-6I	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
16J5-6I	Nieve Tablero	Gravity	0	1	0	1.623308146	3	3
17J5-6I	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89



17J5-6I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
17J5-6I	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
17J5-6I	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
17J5-6I	Nieve Tablero	Gravity	0	1	0	1.623308146	3	3
18J5-6I	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
18J5-6I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
18J5-6I	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
18J5-6I	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
18J5-6I	Nieve Tablero	Gravity	0	1	0	1.623308146	3	3
19J5-6I	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
19J5-6I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
19J5-6I	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
19J5-6I	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
19J5-6I	Nieve Tablero	Gravity	0	1	0	1.623308146	3	3
20J5-6I	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
20J5-6I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
20J5-6I	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
20J5-6I	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
20J5-6I	Nieve Tablero	Gravity	0	1	0	1.623308146	3	3
21J5-6I	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
21J5-6I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
21J5-6I	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
21J5-6I	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
21J5-6I	Nieve Tablero	Gravity	0	1	0	1.623308146	3	3
22J5-6I	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
22J5-6I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
22J5-6I	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
22J5-6I	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
22J5-6I	Nieve Tablero	Gravity	0	1	0	1.623308146	3	3
23J5-6I	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
23J5-6I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
23J5-6I	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
23J5-6I	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053
23J5-6I	Nieve Tablero	Gravity	0	1	0	1.623308146	3	3
24J5-6I	Pavimento Aceras	Gravity	0	1	0	1.623308146	1.89	1.89
24J5-6I	Sobrecarga Uniforme Peatones	Gravity	0	1	0	1.623308146	12.5	12.5
24J5-6I	Viento Longitudinal Tempelhof	Y	0	1	0	1.623308146	-0.053	-0.053
24J5-6I	Viento Longitudinal Overstrassen	Y	0	1	0	1.623308146	0.053	0.053





24J5-6I	Nieve Tablero	Gravity	0	1	0	1.623308146	3	3
1T3-4I	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
1T3-4I	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
1T3-4I	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
2T3-4I	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
2T3-4I	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
2T3-4I	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
3T3-4I	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
3T3-4I	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
3T3-4I	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
4T3-4I	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
4T3-4I	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
4T3-4I	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
5T3-4I	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
5T3-4I	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
5T3-4I	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
6T3-4I	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
6T3-4I	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
6T3-4I	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
7T3-4I	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
7T3-4I	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
7T3-4I	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
8T3-4I	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
8T3-4I	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
8T3-4I	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
9T3-4I	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
9T3-4I	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
9T3-4I	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
10T3-4I	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
10T3-4I	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
10T3-4I	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
11T3-4I	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
11T3-4I	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
11T3-4I	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
12T3-4I	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
12T3-4I	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
12T3-4I	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
13T3-4I	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053



13T3-4I	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
13T3-4I	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
14T3-4I	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
14T3-4I	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
14T3-4I	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
15T3-4I	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
15T3-4I	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
15T3-4I	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
16T3-4I	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
16T3-4I	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
16T3-4I	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
17T3-4I	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
17T3-4I	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
17T3-4I	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
18T3-4I	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
18T3-4I	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
18T3-4I	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
19T3-4I	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
19T3-4I	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
19T3-4I	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
20T3-4I	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
20T3-4I	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
20T3-4I	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
21T3-4I	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
21T3-4I	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
21T3-4I	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
22T3-4I	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
22T3-4I	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
22T3-4I	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
23T3-4I	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
23T3-4I	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
23T3-4I	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
24T3-4I	Viento Longitudinal Tempelhof	Y	0	1	0	1.625034598	-0.053	-0.053
24T3-4I	Viento Longitudinal Overstrassen	Y	0	1	0	1.625034598	0.053	0.053
24T3-4I	Nieve Tablero	Gravity	0	1	0	1.625034598	3	3
1T2-3I	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
1T2-3I	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
1T2-3I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053



1T2-3I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
1T2-3I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
2T2-3I	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
2T2-3I	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
2T2-3I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
2T2-3I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
2T2-3I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
3T2-3I	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
3T2-3I	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
3T2-3I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
3T2-3I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
3T2-3I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
4T2-3I	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
4T2-3I	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
4T2-3I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
4T2-3I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
4T2-3I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
5T2-3I	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
5T2-3I	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
5T2-3I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
5T2-3I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
5T2-3I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
6T2-3I	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
6T2-3I	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
6T2-3I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
6T2-3I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
6T2-3I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
7T2-3I	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
7T2-3I	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
7T2-3I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
7T2-3I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
7T2-3I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
8T2-3I	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
8T2-3I	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
8T2-3I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
8T2-3I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
8T2-3I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
9T2-3I	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625



9T2-3I	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
9T2-3I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
9T2-3I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
9T2-3I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
10T2-3I	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
10T2-3I	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
10T2-3I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
10T2-3I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
10T2-3I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
11T2-3I	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
11T2-3I	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
11T2-3I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
11T2-3I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
11T2-3I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
12T2-3I	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
12T2-3I	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
12T2-3I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
12T2-3I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
12T2-3I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
13T2-3I	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
13T2-3I	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
13T2-3I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
13T2-3I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
13T2-3I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
14T2-3I	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
14T2-3I	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
14T2-3I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
14T2-3I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
14T2-3I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
15T2-3I	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
15T2-3I	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
15T2-3I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
15T2-3I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
15T2-3I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
16T2-3I	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
16T2-3I	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
16T2-3I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
16T2-3I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053



16T2-3I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
17T2-3I	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
17T2-3I	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
17T2-3I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
17T2-3I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
17T2-3I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
18T2-3I	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
18T2-3I	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
18T2-3I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
18T2-3I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
18T2-3I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
19T2-3I	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
19T2-3I	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
19T2-3I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
19T2-3I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
19T2-3I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
20T2-3I	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
20T2-3I	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
20T2-3I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
20T2-3I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
20T2-3I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
21T2-3I	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
21T2-3I	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
21T2-3I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
21T2-3I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
21T2-3I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
22T2-3I	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
22T2-3I	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
22T2-3I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
22T2-3I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
22T2-3I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
23T2-3I	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
23T2-3I	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5
23T2-3I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
23T2-3I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
23T2-3I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
24T2-3I	Pavimento Bituminoso	Gravity	0	0.964705882	0	2.05	8.625	8.625
24T2-3I	Sobrecarga Uniforme Carril Bici	Gravity	7.06E-02	1	0.15	2.125	12.5	12.5





24T2-3I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
24T2-3I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
24T2-3I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
1T1-2I	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
1T1-2I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	0.411764706	0	0.875	6.25	6.25
1T1-2I	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
1T1-2I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0	1	0	2.125	6.25	6.25
1T1-2I	Frenado y Arranque Carga Horizontal Overstrasse	Y	0	0.411764706	0	0.875	7.25	7.25
1T1-2I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
1T1-2I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
1T1-2I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
2T1-2I	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
2T1-2I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	0.411764706	0	0.875	6.25	6.25
2T1-2I	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
2T1-2I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0	1	0	2.125	6.25	6.25
2T1-2I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
2T1-2I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
2T1-2I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
3T1-2I	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
3T1-2I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	0.411764706	0	0.875	6.25	6.25
3T1-2I	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
3T1-2I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0	1	0	2.125	6.25	6.25
3T1-2I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
3T1-2I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
3T1-2I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
4T1-2I	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
4T1-2I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	0.411764706	0	0.875	6.25	6.25
4T1-2I	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
4T1-2I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0	1	0	2.125	6.25	6.25
4T1-2I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
4T1-2I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
4T1-2I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
5T1-2I	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
5T1-2I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	0.411764706	0	0.875	6.25	6.25
5T1-2I	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
5T1-2I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0	1	0	2.125	6.25	6.25
5T1-2I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
5T1-2I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053



5T1-2I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
6T1-2I	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
6T1-2I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	0.411764706	0	0.875	6.25	6.25
6T1-2I	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
6T1-2I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0	1	0	2.125	6.25	6.25
6T1-2I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
6T1-2I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
6T1-2I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
7T1-2I	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
7T1-2I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	0.411764706	0	0.875	6.25	6.25
7T1-2I	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
7T1-2I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0	1	0	2.125	6.25	6.25
7T1-2I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
7T1-2I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
7T1-2I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
8T1-2I	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
8T1-2I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	0.411764706	0	0.875	6.25	6.25
8T1-2I	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
8T1-2I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0	1	0	2.125	6.25	6.25
8T1-2I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
8T1-2I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
8T1-2I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
9T1-2I	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
9T1-2I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	0.411764706	0	0.875	6.25	6.25
9T1-2I	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
9T1-2I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0	1	0	2.125	6.25	6.25
9T1-2I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
9T1-2I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
9T1-2I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
10T1-2I	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
10T1-2I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	0.411764706	0	0.875	6.25	6.25
10T1-2I	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
10T1-2I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0	1	0	2.125	6.25	6.25
10T1-2I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
10T1-2I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
10T1-2I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
11T1-2I	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
11T1-2I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	0.411764706	0	0.875	6.25	6.25



11T1-2I	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
11T1-2I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0	1	0	2.125	6.25	6.25
11T1-2I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
11T1-2I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
11T1-2I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
12T1-2I	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
12T1-2I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	0.411764706	0	0.875	6.25	6.25
12T1-2I	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
12T1-2I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0	1	0	2.125	6.25	6.25
12T1-2I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
12T1-2I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
12T1-2I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
13T1-2I	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
13T1-2I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	0.411764706	0	0.875	6.25	6.25
13T1-2I	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
13T1-2I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0	1	0	2.125	6.25	6.25
13T1-2I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
13T1-2I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
13T1-2I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
14T1-2I	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
14T1-2I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	0.411764706	0	0.875	6.25	6.25
14T1-2I	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
14T1-2I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0	1	0	2.125	6.25	6.25
14T1-2I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
14T1-2I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
14T1-2I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
15T1-2I	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
15T1-2I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	0.411764706	0	0.875	6.25	6.25
15T1-2I	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
15T1-2I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0	1	0	2.125	6.25	6.25
15T1-2I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
15T1-2I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
15T1-2I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
16T1-2I	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
16T1-2I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	0.411764706	0	0.875	6.25	6.25
16T1-2I	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
16T1-2I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0	1	0	2.125	6.25	6.25
16T1-2I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053



16T1-2I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
16T1-2I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
17T1-2I	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
17T1-2I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	0.411764706	0	0.875	6.25	6.25
17T1-2I	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
17T1-2I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0	1	0	2.125	6.25	6.25
17T1-2I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
17T1-2I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
17T1-2I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
18T1-2I	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
18T1-2I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	0.411764706	0	0.875	6.25	6.25
18T1-2I	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
18T1-2I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0	1	0	2.125	6.25	6.25
18T1-2I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
18T1-2I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
18T1-2I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
19T1-2I	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
19T1-2I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	0.411764706	0	0.875	6.25	6.25
19T1-2I	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
19T1-2I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0	1	0	2.125	6.25	6.25
19T1-2I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
19T1-2I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
19T1-2I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
20T1-2I	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
20T1-2I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	0.411764706	0	0.875	6.25	6.25
20T1-2I	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
20T1-2I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0	1	0	2.125	6.25	6.25
20T1-2I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
20T1-2I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
20T1-2I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
21T1-2I	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
21T1-2I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	0.411764706	0	0.875	6.25	6.25
21T1-2I	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
21T1-2I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0	1	0	2.125	6.25	6.25
21T1-2I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
21T1-2I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
21T1-2I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
22T1-2I	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625



22T1-2I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	0.411764706	0	0.875	6.25	6.25
22T1-2I	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
22T1-2I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0	1	0	2.125	6.25	6.25
22T1-2I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
22T1-2I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
22T1-2I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
23T1-2I	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
23T1-2I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	0.411764706	0	0.875	6.25	6.25
23T1-2I	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
23T1-2I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0	1	0	2.125	6.25	6.25
23T1-2I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
23T1-2I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
23T1-2I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
24T1-2I	Pavimento Bituminoso	Gravity	0	1	0	2.125	8.625	8.625
24T1-2I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	0.411764706	0	0.875	6.25	6.25
24T1-2I	Sobrecarga Uniforme Area Remanente Transversal	Gravity	0.411764706	1	0.875	2.125	6.25	6.25
24T1-2I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0	1	0	2.125	6.25	6.25
24T1-2I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125	-0.053	-0.053
24T1-2I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125	0.053	0.053
24T1-2I	Nieve Tablero	Gravity	0	1	0	2.125	3	3
1T0-1I	Pavimento Bituminoso	Gravity	0	1	0	2.125001407	8.625	8.625
1T0-1I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	1	0	2.125001407	6.25	6.25
1T0-1I	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.823528866	0	1.75	6.25	6.25
1T0-1I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0.823528866	0.999999338	1.75	2.125	6.25	6.25
1T0-1I	Frenado y Arranque Carga Horizontal Overstrasse	Y	0	1	0	2.125001407	7.25	7.25
1T0-1I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125001407	-0.053	-0.053
1T0-1I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125001407	0.053	0.053
1T0-1I	Nieve Tablero	Gravity	0	1	0	2.125001407	3	3
2T0-1I	Pavimento Bituminoso	Gravity	0	1	0	2.125001407	8.625	8.625
2T0-1I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	1	0	2.125001407	6.25	6.25
2T0-1I	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.823528866	0	1.75	6.25	6.25
2T0-1I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0.823528866	0.999999338	1.75	2.125	6.25	6.25
2T0-1I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125001407	-0.053	-0.053
2T0-1I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125001407	0.053	0.053
2T0-1I	Nieve Tablero	Gravity	0	1	0	2.125001407	3	3
3T0-1I	Pavimento Bituminoso	Gravity	0	1	0	2.125001407	8.625	8.625
3T0-1I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	1	0	2.125001407	6.25	6.25
3T0-1I	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.823528866	0	1.75	6.25	6.25





3T0-1I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0.823528866	0.999999338	1.75	2.125	6.25	6.25
3T0-1I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125001407	-0.053	-0.053
3T0-1I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125001407	0.053	0.053
3T0-1I	Nieve Tablero	Gravity	0	1	0	2.125001407	3	3
4T0-1I	Pavimento Bituminoso	Gravity	0	1	0	2.125001407	8.625	8.625
4T0-1I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	1	0	2.125001407	6.25	6.25
4T0-1I	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.823528866	0	1.75	6.25	6.25
4T0-1I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0.823528866	0.999999338	1.75	2.125	6.25	6.25
4T0-1I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125001407	-0.053	-0.053
4T0-1I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125001407	0.053	0.053
4T0-1I	Nieve Tablero	Gravity	0	1	0	2.125001407	3	3
5T0-1I	Pavimento Bituminoso	Gravity	0	1	0	2.125001407	8.625	8.625
5T0-1I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	1	0	2.125001407	6.25	6.25
5T0-1I	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.823528866	0	1.75	6.25	6.25
5T0-1I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0.823528866	0.999999338	1.75	2.125	6.25	6.25
5T0-1I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125001407	-0.053	-0.053
5T0-1I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125001407	0.053	0.053
5T0-1I	Nieve Tablero	Gravity	0	1	0	2.125001407	3	3
6T0-1I	Pavimento Bituminoso	Gravity	0	1	0	2.125001407	8.625	8.625
6T0-1I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	1	0	2.125001407	6.25	6.25
6T0-1I	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.823528866	0	1.75	6.25	6.25
6T0-1I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0.823528866	0.999999338	1.75	2.125	6.25	6.25
6T0-1I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125001407	-0.053	-0.053
6T0-1I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125001407	0.053	0.053
6T0-1I	Nieve Tablero	Gravity	0	1	0	2.125001407	3	3
7T0-1I	Pavimento Bituminoso	Gravity	0	1	0	2.125001407	8.625	8.625
7T0-1I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	1	0	2.125001407	6.25	6.25
7T0-1I	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.823528866	0	1.75	6.25	6.25
7T0-1I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0.823528866	0.999999338	1.75	2.125	6.25	6.25
7T0-1I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125001407	-0.053	-0.053
7T0-1I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125001407	0.053	0.053
7T0-1I	Nieve Tablero	Gravity	0	1	0	2.125001407	3	3
8T0-1I	Pavimento Bituminoso	Gravity	0	1	0	2.125001407	8.625	8.625
8T0-1I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	1	0	2.125001407	6.25	6.25
8T0-1I	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.823528866	0	1.75	6.25	6.25
8T0-1I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0.823528866	0.999999338	1.75	2.125	6.25	6.25
8T0-1I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125001407	-0.053	-0.053
8T0-1I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125001407	0.053	0.053



8T0-1I	Nieve Tablero	Gravity	0	1	0	2.125001407	3	3
9T0-1I	Pavimento Bituminoso	Gravity	0	1	0	2.125001407	8.625	8.625
9T0-1I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	1	0	2.125001407	6.25	6.25
9T0-1I	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.823528866	0	1.75	6.25	6.25
9T0-1I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0.823528866	0.999999338	1.75	2.125	6.25	6.25
9T0-1I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125001407	-0.053	-0.053
9T0-1I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125001407	0.053	0.053
9T0-1I	Nieve Tablero	Gravity	0	1	0	2.125001407	3	3
10T0-1I	Pavimento Bituminoso	Gravity	0	1	0	2.125001407	8.625	8.625
10T0-1I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	1	0	2.125001407	6.25	6.25
10T0-1I	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.823528866	0	1.75	6.25	6.25
10T0-1I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0.823528866	0.999999338	1.75	2.125	6.25	6.25
10T0-1I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125001407	-0.053	-0.053
10T0-1I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125001407	0.053	0.053
10T0-1I	Nieve Tablero	Gravity	0	1	0	2.125001407	3	3
11T0-1I	Pavimento Bituminoso	Gravity	0	1	0	2.125001407	8.625	8.625
11T0-1I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	1	0	2.125001407	6.25	6.25
11T0-1I	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.823528866	0	1.75	6.25	6.25
11T0-1I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0.823528866	0.999999338	1.75	2.125	6.25	6.25
11T0-1I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125001407	-0.053	-0.053
11T0-1I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125001407	0.053	0.053
11T0-1I	Nieve Tablero	Gravity	0	1	0	2.125001407	3	3
12T0-1I	Pavimento Bituminoso	Gravity	0	1	0	2.125001407	8.625	8.625
12T0-1I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	1	0	2.125001407	6.25	6.25
12T0-1I	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.823528866	0	1.75	6.25	6.25
12T0-1I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0.823528866	0.999999338	1.75	2.125	6.25	6.25
12T0-1I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125001407	-0.053	-0.053
12T0-1I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125001407	0.053	0.053
12T0-1I	Nieve Tablero	Gravity	0	1	0	2.125001407	3	3
13T0-1I	Pavimento Bituminoso	Gravity	0	1	0	2.125001407	8.625	8.625
13T0-1I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	1	0	2.125001407	6.25	6.25
13T0-1I	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.823528866	0	1.75	6.25	6.25
13T0-1I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0.823528866	0.999999338	1.75	2.125	6.25	6.25
13T0-1I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125001407	-0.053	-0.053
13T0-1I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125001407	0.053	0.053
13T0-1I	Nieve Tablero	Gravity	0	1	0	2.125001407	3	3
14T0-1I	Pavimento Bituminoso	Gravity	0	1	0	2.125001407	8.625	8.625
14T0-1I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	1	0	2.125001407	6.25	6.25



14T0-1I	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.823528866	0	1.75	6.25	6.25
14T0-1I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0.823528866	0.999999338	1.75	2.125	6.25	6.25
14T0-1I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125001407	-0.053	-0.053
14T0-1I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125001407	0.053	0.053
14T0-1I	Nieve Tablero	Gravity	0	1	0	2.125001407	3	3
15T0-1I	Pavimento Bituminoso	Gravity	0	1	0	2.125001407	8.625	8.625
15T0-1I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	1	0	2.125001407	6.25	6.25
15T0-1I	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.823528866	0	1.75	6.25	6.25
15T0-1I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0.823528866	0.999999338	1.75	2.125	6.25	6.25
15T0-1I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125001407	-0.053	-0.053
15T0-1I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125001407	0.053	0.053
15T0-1I	Nieve Tablero	Gravity	0	1	0	2.125001407	3	3
16T0-1I	Pavimento Bituminoso	Gravity	0	1	0	2.125001407	8.625	8.625
16T0-1I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	1	0	2.125001407	6.25	6.25
16T0-1I	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.823528866	0	1.75	6.25	6.25
16T0-1I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0.823528866	0.999999338	1.75	2.125	6.25	6.25
16T0-1I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125001407	-0.053	-0.053
16T0-1I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125001407	0.053	0.053
16T0-1I	Nieve Tablero	Gravity	0	1	0	2.125001407	3	3
17T0-1I	Pavimento Bituminoso	Gravity	0	1	0	2.125001407	8.625	8.625
17T0-1I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	1	0	2.125001407	6.25	6.25
17T0-1I	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.823528866	0	1.75	6.25	6.25
17T0-1I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0.823528866	0.999999338	1.75	2.125	6.25	6.25
17T0-1I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125001407	-0.053	-0.053
17T0-1I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125001407	0.053	0.053
17T0-1I	Nieve Tablero	Gravity	0	1	0	2.125001407	3	3
18T0-1I	Pavimento Bituminoso	Gravity	0	1	0	2.125001407	8.625	8.625
18T0-1I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	1	0	2.125001407	6.25	6.25
18T0-1I	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.823528866	0	1.75	6.25	6.25
18T0-1I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0.823528866	0.999999338	1.75	2.125	6.25	6.25
18T0-1I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125001407	-0.053	-0.053
18T0-1I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125001407	0.053	0.053
18T0-1I	Nieve Tablero	Gravity	0	1	0	2.125001407	3	3
19T0-1I	Pavimento Bituminoso	Gravity	0	1	0	2.125001407	8.625	8.625
19T0-1I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	1	0	2.125001407	6.25	6.25
19T0-1I	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.823528866	0	1.75	6.25	6.25
19T0-1I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0.823528866	0.999999338	1.75	2.125	6.25	6.25
19T0-1I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125001407	-0.053	-0.053



19T0-1I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125001407	0.053	0.053
19T0-1I	Nieve Tablero	Gravity	0	1	0	2.125001407	3	3
20T0-1I	Pavimento Bituminoso	Gravity	0	1	0	2.125001407	8.625	8.625
20T0-1I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	1	0	2.125001407	6.25	6.25
20T0-1I	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.823528866	0	1.75	6.25	6.25
20T0-1I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0.823528866	0.999999338	1.75	2.125	6.25	6.25
20T0-1I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125001407	-0.053	-0.053
20T0-1I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125001407	0.053	0.053
20T0-1I	Nieve Tablero	Gravity	0	1	0	2.125001407	3	3
21T0-1I	Pavimento Bituminoso	Gravity	0	1	0	2.125001407	8.625	8.625
21T0-1I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	1	0	2.125001407	6.25	6.25
21T0-1I	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.823528866	0	1.75	6.25	6.25
21T0-1I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0.823528866	0.999999338	1.75	2.125	6.25	6.25
21T0-1I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125001407	-0.053	-0.053
21T0-1I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125001407	0.053	0.053
21T0-1I	Nieve Tablero	Gravity	0	1	0	2.125001407	3	3
22T0-1I	Pavimento Bituminoso	Gravity	0	1	0	2.125001407	8.625	8.625
22T0-1I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	1	0	2.125001407	6.25	6.25
22T0-1I	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.823528866	0	1.75	6.25	6.25
22T0-1I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0.823528866	0.999999338	1.75	2.125	6.25	6.25
22T0-1I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125001407	-0.053	-0.053
22T0-1I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125001407	0.053	0.053
22T0-1I	Nieve Tablero	Gravity	0	1	0	2.125001407	3	3
23T0-1I	Pavimento Bituminoso	Gravity	0	1	0	2.125001407	8.625	8.625
23T0-1I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	1	0	2.125001407	6.25	6.25
23T0-1I	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.823528866	0	1.75	6.25	6.25
23T0-1I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0.823528866	0.999999338	1.75	2.125	6.25	6.25
23T0-1I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125001407	-0.053	-0.053
23T0-1I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125001407	0.053	0.053
23T0-1I	Nieve Tablero	Gravity	0	1	0	2.125001407	3	3
24T0-1I	Pavimento Bituminoso	Gravity	0	1	0	2.125001407	8.625	8.625
24T0-1I	Sobrecarga Uniforme Carril Virtual 2 Transversal	Gravity	0	1	0	2.125001407	6.25	6.25
24T0-1I	Sobrecarga Uniforme Carril Virtual 2 Longitudinal	Gravity	0	0.823528866	0	1.75	6.25	6.25
24T0-1I	Sobrecarga Uniforme Area Remanente Longitudinal	Gravity	0.823528866	0.999999338	1.75	2.125	6.25	6.25
24T0-1I	Viento Longitudinal Tempelhof	Y	0	1	0	2.125001407	-0.053	-0.053
24T0-1I	Viento Longitudinal Overstrassen	Y	0	1	0	2.125001407	0.053	0.053
24T0-1I	Nieve Tablero	Gravity	0	1	0	2.125001407	3	3
A1-2	Viento Arco Horizontal Izquierda	X	0	1	0	2.500565021	3	3



A1-2	Viento Arco Horizontal Derecha	X	0	1	0	2.500565021	-3	-3
A1-2	Viento Arco Vertical Succion	Z	0	1	0	2.500565021	1.56	1.56
A1-2	Viento Arco Vertical Empuje	Z	0	1	0	2.500565021	-1.57	-1.57
A1-2	Nieve Arco	Z	0	1	0	2.500565021	-8.02	-8.02
A1-2	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.500565021	-0.37	-0.37
A1-2	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.500565021	0.37	0.37
A2-3	Viento Arco Horizontal Izquierda	X	0	1	0	2.504733498	2.64	2.64
A2-3	Viento Arco Horizontal Derecha	X	0	1	0	2.504733498	-2.64	-2.64
A2-3	Viento Arco Vertical Succion	Z	0	1	0	2.504733498	0.84	0.84
A2-3	Viento Arco Vertical Empuje	Z	0	1	0	2.504733498	-0.84	-0.84
A2-3	Nieve Arco	Z	0	1	0	2.504733498	-7	-7
A2-3	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.504733498	-0.33	-0.33
A2-3	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.504733498	0.33	0.33
A3-4	Viento Arco Horizontal Izquierda	X	0	1	0	2.503070531	1.94	1.94
A3-4	Viento Arco Horizontal Derecha	X	0	1	0	2.503070531	-1.94	-1.94
A3-4	Viento Arco Vertical Succion	Z	0	1	0	2.503070531	1.33	1.33
A3-4	Viento Arco Vertical Empuje	Z	0	1	0	2.503070531	-1.33	-1.33
A3-4	Nieve Arco	Z	0	1	0	2.503070531	-6.09	-6.09
A3-4	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.503070531	-0.25	-0.25
A3-4	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.503070531	0.25	0.25
A4-5	Viento Arco Horizontal Izquierda	X	0	1	0	2.501400637	0.96	0.96
A4-5	Viento Arco Horizontal Derecha	X	0	1	0	2.501400637	-0.96	-0.96
A4-5	Viento Arco Vertical Succion	Z	0	1	0	2.501400637	0.87	0.87
A4-5	Viento Arco Vertical Empuje	Z	0	1	0	2.501400637	-0.87	-0.87
A4-5	Nieve Arco	Z	0	1	0	2.501400637	-3.83	-3.83
A4-5	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.501400637	-0.22	-0.22
A4-5	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.501400637	0.24	0.24
A5-6	Viento Arco Horizontal Izquierda	X	0	1	0	2.506663877	1.28	1.28
A5-6	Viento Arco Horizontal Derecha	X	0	1	0	2.506663877	-1.28	-1.28
A5-6	Viento Arco Vertical Succion	Z	0	1	0	2.506663877	0.91	0.91
A5-6	Viento Arco Vertical Empuje	Z	0	1	0	2.506663877	-0.91	-0.91
A5-6	Nieve Arco	Z	0	1	0	2.506663877	-3.83	-3.83
A5-6	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.506663877	-0.2	-0.2
A5-6	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.506663877	0.2	0.2
A6-7	Viento Arco Horizontal Izquierda	X	0	1	0	2.50388014	1.38	1.38
A6-7	Viento Arco Horizontal Derecha	X	0	1	0	2.50388014	-1.38	-1.38
A6-7	Viento Arco Vertical Succion	Z	0	1	0	2.50388014	0.97	0.97
A6-7	Viento Arco Vertical Empuje	Z	0	1	0	2.50388014	-0.97	-0.97





A6-7	Nieve Arco	Z	0	1	0	2.50388014	-3.98	-3.98
A6-7	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.50388014	-0.26	-0.26
A6-7	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.50388014	0.26	0.26
A7-8	Viento Arco Horizontal Izquierda	X	0	1	0	2.501093285	1.41	1.41
A7-8	Viento Arco Horizontal Derecha	X	0	1	0	2.501093285	-1.41	-1.41
A7-8	Viento Arco Vertical Succion	Z	0	1	0	2.501093285	0.99	0.99
A7-8	Viento Arco Vertical Empuje	Z	0	1	0	2.501093285	-0.99	-0.99
A7-8	Nieve Arco	Z	0	1	0	2.501093285	-4.01	-4.01
A7-8	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.501093285	-0.31	-0.31
A7-8	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.501093285	0.2	0.2
A8-9	Viento Arco Horizontal Izquierda	X	0	1	0	2.502543863	1.43	1.43
A8-9	Viento Arco Horizontal Derecha	X	0	1	0	2.502543863	-1.43	-1.43
A8-9	Viento Arco Vertical Succion	Z	0	1	0	2.502543863	1.1	1.1
A8-9	Viento Arco Vertical Empuje	Z	0	1	0	2.502543863	-1.1	-1.1
A8-9	Nieve Arco	Z	0	1	0	2.502543863	-4.37	-4.37
A8-9	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.502543863	-0.3	-0.3
A9-10	Viento Arco Horizontal Izquierda	X	0	1	0	2.501379801	1.76	1.76
A9-10	Viento Arco Horizontal Derecha	X	0	1	0	2.501379801	-1.76	-1.76
A9-10	Viento Arco Vertical Succion	Z	0	1	0	2.501379801	1.24	1.24
A9-10	Viento Arco Vertical Empuje	Z	0	1	0	2.501379801	-1.24	-1.24
A9-10	Nieve Arco	Z	0	1	0	2.501379801	-4.88	-4.88
A9-10	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.501379801	-0.25	-0.25
A10-11	Viento Arco Horizontal Izquierda	X	0	1	0	2.506013508	1.4	1.4
A10-11	Viento Arco Horizontal Derecha	X	0	1	0	2.506013508	-1.4	-1.4
A10-11	Viento Arco Vertical Succion	Z	0	1	0	2.506013508	1.44	1.44
A10-11	Viento Arco Vertical Empuje	Z	0	1	0	2.506013508	-1.45	-1.45
A10-11	Nieve Arco	Z	0	1	0	2.506013508	-5.64	-5.64
A11-12	Viento Arco Horizontal Izquierda	X	0	1	0	2.502267089	1.41	1.41
A11-12	Viento Arco Horizontal Derecha	X	0	1	0	2.502267089	-1.41	-1.41
A11-12	Viento Arco Vertical Succion	Z	0	1	0	2.502267089	1.72	1.72
A11-12	Viento Arco Vertical Empuje	Z	0	1	0	2.502267089	-1.72	-1.72
A11-12	Nieve Arco	Z	0	1	0	2.502267089	-6.67	-6.67
A12-13	Viento Arco Horizontal Izquierda	X	0	1	0	2.504859218	1.56	1.56
A12-13	Viento Arco Horizontal Derecha	X	0	1	0	2.504859218	-1.57	-1.57
A12-13	Viento Arco Vertical Succion	Z	0	1	0	2.504859218	2.08	2.08
A12-13	Viento Arco Vertical Empuje	Z	0	1	0	2.504859218	-2.08	-2.08
A12-13	Nieve Arco	Z	0	1	0	2.504859218	-8.02	-8.02
A13-14	Viento Arco Horizontal Izquierda	X	0	1	0	2.502130727	1.57	1.57



<b>A13-14</b>	Viento Arco Horizontal Derecha	X	0	1	0	2.502130727	-1.57	-1.57
<b>A13-14</b>	Viento Arco Vertical Succion	Z	0	1	0	2.502130727	2.54	2.54
<b>A13-14</b>	Viento Arco Vertical Empuje	Z	0	1	0	2.502130727	-2.54	-2.54
<b>A13-14</b>	Nieve Arco	Z	0	1	0	2.502130727	-9.78	-9.78
<b>A14-15</b>	Viento Arco Horizontal Izquierda	X	0	1	0	2.500013131	1.56	1.56
<b>A14-15</b>	Viento Arco Horizontal Derecha	X	0	1	0	2.500013131	-1.57	-1.57
<b>A14-15</b>	Viento Arco Vertical Succion	Z	0	1	0	2.500013131	3.12	3.12
<b>A14-15</b>	Viento Arco Vertical Empuje	Z	0	1	0	2.500013131	-3.11	-3.11
<b>A14-15</b>	Nieve Arco	Z	0	1	0	2.500013131	-12	-12
<b>A15-16</b>	Viento Arco Horizontal Izquierda	X	0	1	0	2.502449696	1.52	1.52
<b>A15-16</b>	Viento Arco Horizontal Derecha	X	0	1	0	2.502449696	-1.52	-1.52
<b>A15-16</b>	Viento Arco Vertical Succion	Z	0	1	0	2.502449696	3.79	3.79
<b>A15-16</b>	Viento Arco Vertical Empuje	Z	0	1	0	2.502449696	-3.79	-3.79
<b>A15-16</b>	Nieve Arco	Z	0	1	0	2.502449696	-14.67	-14.67
<b>A16-17</b>	Viento Arco Horizontal Izquierda	X	0	1	0	2.169190823	0.91	0.91
<b>A16-17</b>	Viento Arco Horizontal Derecha	X	0	1	0	2.169190823	-0.91	-0.91
<b>A16-17</b>	Viento Arco Vertical Succion	Z	0	1	0	2.169190823	4.23	4.23
<b>A16-17</b>	Viento Arco Vertical Empuje	Z	0	1	0	2.169190823	-4.23	-4.23
<b>A16-17</b>	Nieve Arco	Z	0	1	0	2.169190823	-16.5	-16.5
<b>A17-18D</b>	Viento Arco Horizontal Izquierda	X	0	1	0	2.500806012	0.9	0.9
<b>A17-18D</b>	Viento Arco Horizontal Derecha	X	0	1	0	2.500806012	-0.9	-0.9
<b>A17-18D</b>	Viento Arco Vertical Succion	Z	0	1	0	2.500806012	2.66	2.66
<b>A17-18D</b>	Viento Arco Vertical Empuje	Z	0	1	0	2.500806012	-2.76	-2.76
<b>A17-18D</b>	Nieve Arco	Z	0	1	0	2.500806012	-10.44	-10.44
<b>A18-19D</b>	Viento Arco Horizontal Izquierda	X	0	1	0	2.501794295	1.3	1.3
<b>A18-19D</b>	Viento Arco Horizontal Derecha	X	0	1	0	2.501794295	-1.3	-1.3
<b>A18-19D</b>	Viento Arco Vertical Succion	Z	0	1	0	2.501794295	3.12	3.12
<b>A18-19D</b>	Viento Arco Vertical Empuje	Z	0	1	0	2.501794295	-3.12	-3.12
<b>A18-19D</b>	Nieve Arco	Z	0	1	0	2.501794295	-12.38	-12.38
<b>A18-19D</b>	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.501794295	-0.32	-0.32
<b>A18-19D</b>	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.501794295	0.36	0.36
<b>A19-20D</b>	Viento Arco Horizontal Izquierda	X	0	1	0	2.50030837	1.8	1.8
<b>A19-20D</b>	Viento Arco Horizontal Derecha	X	0	1	0	2.50030837	-1.8	-1.8
<b>A19-20D</b>	Viento Arco Vertical Succion	Z	0	1	0	2.50030837	3.59	3.59
<b>A19-20D</b>	Viento Arco Vertical Empuje	Z	0	1	0	2.50030837	-3.59	-3.59
<b>A19-20D</b>	Nieve Arco	Z	0	1	0	2.50030837	-14.4	-14.4
<b>A19-20D</b>	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.50030837	-0.3	-0.3
<b>A19-20D</b>	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.50030837	0.31	0.31



A20-21D	Viento Arco Horizontal Izquierda	X	0	1	0	2.500557771	1.8	1.8
A20-21D	Viento Arco Horizontal Derecha	X	0	1	0	2.500557771	-1.78	-1.78
A20-21D	Viento Arco Vertical Succion	Z	0	1	0	2.500557771	4.11	4.11
A20-21D	Viento Arco Vertical Empuje	Z	0	1	0	2.500557771	-4.11	-4.11
A20-21D	Nieve Arco	Z	0	1	0	2.500557771	-16.67	-16.67
A20-21D	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.500557771	-0.26	-0.26
A20-21D	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.500557771	0.27	0.27
A21-22D	Viento Arco Horizontal Izquierda	X	0	1	0	2.503576168	2.3	2.3
A21-22D	Viento Arco Horizontal Derecha	X	0	1	0	2.503576168	-2.336	-2.336
A21-22D	Viento Arco Vertical Succion	Z	0	1	0	2.503576168	4.57	4.57
A21-22D	Viento Arco Vertical Empuje	Z	0	1	0	2.503576168	-4.58	-4.58
A21-22D	Nieve Arco	Z	0	1	0	2.503576168	-18.77	-18.77
A21-22D	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.503576168	-0.26	-0.26
A21-22D	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.503576168	0.24	0.24
A22-23D	Viento Arco Horizontal Izquierda	X	0	1	0	2.499954212	2.3	2.3
A22-23D	Viento Arco Horizontal Derecha	X	0	1	0	2.499954212	-2.314	-2.314
A22-23D	Viento Arco Vertical Succion	Z	0	1	0	2.499954212	3.18	3.18
A22-23D	Viento Arco Vertical Empuje	Z	0	1	0	2.499954212	-3.18	-3.18
A22-23D	Nieve Arco	Z	0	1	0	2.499954212	-13.14	-13.14
A22-23D	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.499954212	-0.2	-0.2
A22-23D	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.499954212	0.21	0.21
A23-24D	Viento Arco Horizontal Izquierda	X	0	1	0	2.500155473	2.3	2.3
A23-24D	Viento Arco Horizontal Derecha	X	0	1	0	2.500155473	-2.295	-2.295
A23-24D	Viento Arco Vertical Succion	Z	0	1	0	2.500155473	2.44	2.44
A23-24D	Viento Arco Vertical Empuje	Z	0	1	0	2.500155473	-2.44	-2.44
A23-24D	Nieve Arco	Z	0	1	0	2.500155473	-10.19	-10.19
A23-24D	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.500155473	-0.2	-0.2
A23-24D	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.500155473	0.19	0.19
A24-25D	Viento Arco Horizontal Izquierda	X	0	1	0	2.500107975	2.8	2.8
A24-25D	Viento Arco Horizontal Derecha	X	0	1	0	2.500107975	-2.818	-2.818
A24-25D	Viento Arco Vertical Succion	Z	0	1	0	2.500107975	2.33	2.33
A24-25D	Viento Arco Vertical Empuje	Z	0	1	0	2.500107975	-2.33	-2.33
A24-25D	Nieve Arco	Z	0	1	0	2.500107975	-9.76	-9.76
A24-25D	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.500107975	-0.18	-0.18
A24-25D	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.500107975	0.17	0.17
A25-26D	Viento Arco Horizontal Izquierda	X	0	1	0	2.500804696	2.8	2.8
A25-26D	Viento Arco Horizontal Derecha	X	0	1	0	2.500804696	-2.816	-2.816
A25-26D	Viento Arco Vertical Succion	Z	0	1	0	2.500804696	2.32	2.32



A25-26D	Viento Arco Vertical Empuje	Z	0	1	0	2.500804696	-2.2	-2.2
A25-26D	Nieve Arco	Z	0	1	0	2.500804696	-9.23	-9.23
A25-26D	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.500804696	-0.15	-0.15
A25-26D	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.500804696	0.15	0.15
A26-27D	Viento Arco Horizontal Izquierda	X	0	1	0	2.500013823	3.6	3.6
A26-27D	Viento Arco Horizontal Derecha	X	0	1	0	2.500013823	-3.578	-3.578
A26-27D	Viento Arco Vertical Succion	Z	0	1	0	2.500013823	2.2	2.2
A26-27D	Viento Arco Vertical Empuje	Z	0	1	0	2.500013823	-2.14	-2.14
A26-27D	Nieve Arco	Z	0	1	0	2.500013823	-8.94	-8.94
A26-27D	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.500013823	-0.13	-0.13
A26-27D	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.500013823	0.12	0.12
A27-28D	Viento Arco Horizontal Derecha	X	0	1	0	1.0246991	-2.815	-2.815
A27-28D	Viento Arco Horizontal Izquierda	X	0	1	0	1.0246991	2.815	2.815
A27-28D	Viento Arco Vertical Succion	Z	0	1	0	1.0246991	2.14	2.14
A27-28D	Viento Arco Vertical Empuje	Z	0	1	0	1.0246991	-3.08	-3.08
A27-28D	Nieve Arco	Z	0	1	0	1.0246991	-8.21	-8.21
A27-28D	Viento Arco Longitudinal Tempelhof	Y	0	1	0	1.0246991	-0.11	-0.11
A27-28D	Viento Arco Longitudinal Overstrassen	Y	0	1	0	1.0246991	0.11	0.11
A17-18I	Viento Arco Horizontal Izquierda	X	0	1	0	2.500806012	0.9	0.9
A17-18I	Viento Arco Horizontal Derecha	X	0	1	0	2.500806012	-0.9	-0.9
A17-18I	Viento Arco Vertical Succion	Z	0	1	0	2.500806012	2.66	2.66
A17-18I	Viento Arco Vertical Empuje	Z	0	1	0	2.500806012	-2.76	-2.76
A17-18I	Nieve Arco	Z	0	1	0	2.500806012	-10.44	-10.44
A18-19I	Viento Arco Horizontal Izquierda	X	0	1	0	2.501794295	1.3	1.3
A18-19I	Viento Arco Horizontal Derecha	X	0	1	0	2.501794295	-1.3	-1.3
A18-19I	Viento Arco Vertical Succion	Z	0	1	0	2.501794295	3.12	3.12
A18-19I	Viento Arco Vertical Empuje	Z	0	1	0	2.501794295	-3.12	-3.12
A18-19I	Nieve Arco	Z	0	1	0	2.501794295	-12.38	-12.38
A18-19I	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.501794295	-0.32	-0.32
A18-19I	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.501794295	0.36	0.36
A19-20I	Viento Arco Horizontal Izquierda	X	0	1	0	2.50030837	1.8	1.8
A19-20I	Viento Arco Horizontal Derecha	X	0	1	0	2.50030837	-1.8	-1.8
A19-20I	Viento Arco Vertical Succion	Z	0	1	0	2.50030837	3.59	3.59
A19-20I	Viento Arco Vertical Empuje	Z	0	1	0	2.50030837	-3.59	-3.59
A19-20I	Nieve Arco	Z	0	1	0	2.50030837	-14.4	-14.4
A19-20I	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.50030837	-0.3	-0.3
A19-20I	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.50030837	0.31	0.31
A20-21I	Viento Arco Horizontal Izquierda	X	0	1	0	2.500557771	1.8	1.8



A20-21I	Viento Arco Horizontal Derecha	X	0	1	0	2.500557771	-1.78	-1.78
A20-21I	Viento Arco Vertical Succion	Z	0	1	0	2.500557771	4.11	4.11
A20-21I	Viento Arco Vertical Empuje	Z	0	1	0	2.500557771	-4.11	-4.11
A20-21I	Nieve Arco	Z	0	1	0	2.500557771	-16.67	-16.67
A20-21I	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.500557771	-0.26	-0.26
A20-21I	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.500557771	0.27	0.27
A21-22I	Viento Arco Horizontal Izquierda	X	0	1	0	2.503576168	2.3	2.3
A21-22I	Viento Arco Horizontal Derecha	X	0	1	0	2.503576168	-2.336	-2.336
A21-22I	Viento Arco Vertical Succion	Z	0	1	0	2.503576168	4.57	4.57
A21-22I	Viento Arco Vertical Empuje	Z	0	1	0	2.503576168	-4.58	-4.58
A21-22I	Nieve Arco	Z	0	1	0	2.503576168	-18.77	-18.77
A21-22I	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.503576168	-0.26	-0.26
A21-22I	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.503576168	0.24	0.24
A22-23I	Viento Arco Horizontal Izquierda	X	0	1	0	2.499954212	2.3	2.3
A22-23I	Viento Arco Horizontal Derecha	X	0	1	0	2.499954212	-2.314	-2.314
A22-23I	Viento Arco Vertical Succion	Z	0	1	0	2.499954212	3.18	3.18
A22-23I	Viento Arco Vertical Empuje	Z	0	1	0	2.499954212	-3.18	-3.18
A22-23I	Nieve Arco	Z	0	1	0	2.499954212	-13.14	-13.14
A22-23I	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.499954212	-0.2	-0.2
A22-23I	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.499954212	0.21	0.21
A23-24I	Viento Arco Horizontal Izquierda	X	0	1	0	2.500155473	2.3	2.3
A23-24I	Viento Arco Horizontal Derecha	X	0	1	0	2.500155473	-2.295	-2.295
A23-24I	Viento Arco Vertical Succion	Z	0	1	0	2.500155473	2.44	2.44
A23-24I	Viento Arco Vertical Empuje	Z	0	1	0	2.500155473	-2.44	-2.44
A23-24I	Nieve Arco	Z	0	1	0	2.500155473	-10.19	-10.19
A23-24I	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.500155473	-0.2	-0.2
A23-24I	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.500155473	0.19	0.19
A24-25I	Viento Arco Horizontal Izquierda	X	0	1	0	2.500107975	2.8	2.8
A24-25I	Viento Arco Horizontal Derecha	X	0	1	0	2.500107975	-2.818	-2.818
A24-25I	Viento Arco Vertical Succion	Z	0	1	0	2.500107975	2.33	2.33
A24-25I	Viento Arco Vertical Empuje	Z	0	1	0	2.500107975	-2.33	-2.33
A24-25I	Nieve Arco	Z	0	1	0	2.500107975	-9.76	-9.76
A24-25I	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.500107975	-0.18	-0.18
A24-25I	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.500107975	0.17	0.17
A25-26I	Viento Arco Horizontal Izquierda	X	0	1	0	2.500804696	2.8	2.8
A25-26I	Viento Arco Horizontal Derecha	X	0	1	0	2.500804696	-2.816	-2.816
A25-26I	Viento Arco Vertical Succion	Z	0	1	0	2.500804696	2.32	2.32
A25-26I	Viento Arco Vertical Empuje	Z	0	1	0	2.500804696	-2.2	-2.2





<b>A25-26I</b>	Nieve Arco	Z	0	1	0	2.500804696	-9.23	-9.23
<b>A25-26I</b>	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.500804696	-0.15	-0.15
<b>A25-26I</b>	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.500804696	0.15	0.15
<b>A27-26I</b>	Viento Arco Horizontal Izquierda	X	0	1	0	2.500013823	3.6	3.6
<b>A27-26I</b>	Viento Arco Horizontal Derecha	X	0	1	0	2.500013823	-3.578	-3.578
<b>A27-26I</b>	Viento Arco Vertical Succion	Z	0	1	0	2.500013823	2.2	2.2
<b>A27-26I</b>	Viento Arco Vertical Empuje	Z	0	1	0	2.500013823	-2.14	-2.14
<b>A27-26I</b>	Nieve Arco	Z	0	1	0	2.500013823	-8.94	-8.94
<b>A27-26I</b>	Viento Arco Longitudinal Tempelhof	Y	0	1	0	2.500013823	-0.13	-0.13
<b>A27-26I</b>	Viento Arco Longitudinal Overstrassen	Y	0	1	0	2.500013823	0.12	0.12

## I.11. Acciones térmicas en vigas

TABLE: Frame Loads - Temperature					
Frame	LoadPat	Type	Temp	TempGrad2	TempGrad3
Text	Text	Text	C	C/m	C/m
<b>1J6-7D</b>	Temperatura Gradiente de Calentamiento	Gradient2		-18.95	
<b>1J6-7D</b>	Temperatura Gradiente de Enfriamiento	Gradient2		10.53	
<b>1J6-7D</b>	Temperatura Tablero Dilatado	Temperature	32.41		
<b>1J6-7D</b>	Temperatura Tablero Contraído	Temperature	-32.65		
<b>2J6-7D</b>	Temperatura Gradiente de Calentamiento	Gradient2		-18.95	
<b>2J6-7D</b>	Temperatura Gradiente de Enfriamiento	Gradient2		10.53	
<b>2J6-7D</b>	Temperatura Tablero Dilatado	Temperature	32.41		
<b>2J6-7D</b>	Temperatura Tablero Contraído	Temperature	-32.65		
<b>3J6-7D</b>	Temperatura Gradiente de Calentamiento	Gradient2		-18.95	
<b>3J6-7D</b>	Temperatura Gradiente de Enfriamiento	Gradient2		10.53	
<b>3J6-7D</b>	Temperatura Tablero Dilatado	Temperature	32.41		
<b>3J6-7D</b>	Temperatura Tablero Contraído	Temperature	-32.65		
<b>4J6-7D</b>	Temperatura Gradiente de Calentamiento	Gradient2		-18.95	
<b>4J6-7D</b>	Temperatura Gradiente de Enfriamiento	Gradient2		10.53	
<b>4J6-7D</b>	Temperatura Tablero Dilatado	Temperature	32.41		
<b>4J6-7D</b>	Temperatura Tablero Contraído	Temperature	-32.65		
<b>5J6-7D</b>	Temperatura Gradiente de Calentamiento	Gradient2		-18.95	
<b>5J6-7D</b>	Temperatura Gradiente de Enfriamiento	Gradient2		10.53	

<b>5J6-7D</b>	Temperatura Tablero Dilatado	Temperature	32.41
<b>5J6-7D</b>	Temperatura Tablero Contraído	Temperature	-32.65
<b>6J6-7D</b>	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
<b>6J6-7D</b>	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
<b>6J6-7D</b>	Temperatura Tablero Dilatado	Temperature	32.41
<b>6J6-7D</b>	Temperatura Tablero Contraído	Temperature	-32.65
<b>7J6-7D</b>	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
<b>7J6-7D</b>	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
<b>7J6-7D</b>	Temperatura Tablero Dilatado	Temperature	32.41
<b>7J6-7D</b>	Temperatura Tablero Contraído	Temperature	-32.65
<b>8J6-7D</b>	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
<b>8J6-7D</b>	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
<b>8J6-7D</b>	Temperatura Tablero Dilatado	Temperature	32.41
<b>8J6-7D</b>	Temperatura Tablero Contraído	Temperature	-32.65
<b>9J6-7D</b>	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
<b>9J6-7D</b>	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
<b>9J6-7D</b>	Temperatura Tablero Dilatado	Temperature	32.41
<b>9J6-7D</b>	Temperatura Tablero Contraído	Temperature	-32.65
<b>10J6-7D</b>	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
<b>10J6-7D</b>	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
<b>10J6-7D</b>	Temperatura Tablero Dilatado	Temperature	32.41



10J6-7D	Temperatura Tablero Contraído	Temperature	-32.65
11J6-7D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
11J6-7D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
11J6-7D	Temperatura Tablero Dilatado	Temperature	32.41
11J6-7D	Temperatura Tablero Contraído	Temperature	-32.65
12J6-7D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
12J6-7D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
12J6-7D	Temperatura Tablero Dilatado	Temperature	32.41
12J6-7D	Temperatura Tablero Contraído	Temperature	-32.65
13J6-7D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
13J6-7D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
13J6-7D	Temperatura Tablero Dilatado	Temperature	32.41
13J6-7D	Temperatura Tablero Contraído	Temperature	-32.65
14J6-7D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
14J6-7D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
14J6-7D	Temperatura Tablero Dilatado	Temperature	32.41
14J6-7D	Temperatura Tablero Contraído	Temperature	-32.65
15J6-7D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
15J6-7D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
15J6-7D	Temperatura Tablero Dilatado	Temperature	32.41
15J6-7D	Temperatura Tablero Contraído	Temperature	-32.65
16J6-7D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
16J6-7D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
16J6-7D	Temperatura Tablero Dilatado	Temperature	32.41
16J6-7D	Temperatura Tablero Contraído	Temperature	-32.65
17J6-7D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
17J6-7D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
17J6-7D	Temperatura Tablero Dilatado	Temperature	32.41
17J6-7D	Temperatura Tablero Contraído	Temperature	-32.65
18J6-7D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
18J6-7D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
18J6-7D	Temperatura Tablero Dilatado	Temperature	32.41

18J6-7D	Temperatura Tablero Contraído	Temperature	-32.65
19J6-7D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
19J6-7D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
19J6-7D	Temperatura Tablero Dilatado	Temperature	32.41
19J6-7D	Temperatura Tablero Contraído	Temperature	-32.65
20J6-7D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
20J6-7D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
20J6-7D	Temperatura Tablero Dilatado	Temperature	32.41
20J6-7D	Temperatura Tablero Contraído	Temperature	-32.65
21J6-7D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
21J6-7D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
21J6-7D	Temperatura Tablero Dilatado	Temperature	32.41
21J6-7D	Temperatura Tablero Contraído	Temperature	-32.65
22J6-7D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
22J6-7D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
22J6-7D	Temperatura Tablero Dilatado	Temperature	32.41
22J6-7D	Temperatura Tablero Contraído	Temperature	-32.65
23J6-7D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
23J6-7D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
23J6-7D	Temperatura Tablero Dilatado	Temperature	32.41
23J6-7D	Temperatura Tablero Contraído	Temperature	-32.65
24J6-7D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
24J6-7D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
24J6-7D	Temperatura Tablero Dilatado	Temperature	32.41
24J6-7D	Temperatura Tablero Contraído	Temperature	-32.65
1J5-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
1J5-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
1J5-6D	Temperatura Tablero Dilatado	Temperature	32.41
1J5-6D	Temperatura Tablero Contraído	Temperature	-32.65
2J5-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
2J5-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
2J5-6D	Temperatura Tablero Dilatado	Temperature	32.41



2J5-6D	Temperatura Tablero Contraído	Temperature	-32.65
3J5-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
3J5-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
3J5-6D	Temperatura Tablero Dilatado	Temperature	32.41
3J5-6D	Temperatura Tablero Contraído	Temperature	-32.65
4J5-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
4J5-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
4J5-6D	Temperatura Tablero Dilatado	Temperature	32.41
4J5-6D	Temperatura Tablero Contraído	Temperature	-32.65
5J5-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
5J5-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
5J5-6D	Temperatura Tablero Dilatado	Temperature	32.41
5J5-6D	Temperatura Tablero Contraído	Temperature	-32.65
6J5-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
6J5-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
6J5-6D	Temperatura Tablero Dilatado	Temperature	32.41
6J5-6D	Temperatura Tablero Contraído	Temperature	-32.65
7J5-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
7J5-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
7J5-6D	Temperatura Tablero Dilatado	Temperature	32.41
7J5-6D	Temperatura Tablero Contraído	Temperature	-32.65
8J5-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
8J5-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
8J5-6D	Temperatura Tablero Dilatado	Temperature	32.41
8J5-6D	Temperatura Tablero Contraído	Temperature	-32.65
9J5-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
9J5-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
9J5-6D	Temperatura Tablero Dilatado	Temperature	32.41
9J5-6D	Temperatura Tablero Contraído	Temperature	-32.65
10J5-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
10J5-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
10J5-6D	Temperatura Tablero Dilatado	Temperature	32.41

10J5-6D	Temperatura Tablero Contraído	Temperature	-32.65
11J5-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
11J5-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
11J5-6D	Temperatura Tablero Dilatado	Temperature	32.41
11J5-6D	Temperatura Tablero Contraído	Temperature	-32.65
12J5-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
12J5-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
12J5-6D	Temperatura Tablero Dilatado	Temperature	32.41
12J5-6D	Temperatura Tablero Contraído	Temperature	-32.65
13J5-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
13J5-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
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13J5-6D	Temperatura Tablero Contraído	Temperature	-32.65
14J5-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
14J5-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
14J5-6D	Temperatura Tablero Dilatado	Temperature	32.41
14J5-6D	Temperatura Tablero Contraído	Temperature	-32.65
15J5-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
15J5-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
15J5-6D	Temperatura Tablero Dilatado	Temperature	32.41
15J5-6D	Temperatura Tablero Contraído	Temperature	-32.65
16J5-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
16J5-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
16J5-6D	Temperatura Tablero Dilatado	Temperature	32.41
16J5-6D	Temperatura Tablero Contraído	Temperature	-32.65
17J5-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
17J5-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
17J5-6D	Temperatura Tablero Dilatado	Temperature	32.41
17J5-6D	Temperatura Tablero Contraído	Temperature	-32.65
18J5-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
18J5-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
18J5-6D	Temperatura Tablero Dilatado	Temperature	32.41



18J5-6D	Temperatura Tablero Contraído	Temperature	-32.65
19J5-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
19J5-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
19J5-6D	Temperatura Tablero Dilatado	Temperature	32.41
19J5-6D	Temperatura Tablero Contraído	Temperature	-32.65
20J5-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
20J5-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
20J5-6D	Temperatura Tablero Dilatado	Temperature	32.41
20J5-6D	Temperatura Tablero Contraído	Temperature	-32.65
21J5-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
21J5-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
21J5-6D	Temperatura Tablero Dilatado	Temperature	32.41
21J5-6D	Temperatura Tablero Contraído	Temperature	-32.65
22J5-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
22J5-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
22J5-6D	Temperatura Tablero Dilatado	Temperature	32.41
22J5-6D	Temperatura Tablero Contraído	Temperature	-32.65
23J5-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
23J5-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
23J5-6D	Temperatura Tablero Dilatado	Temperature	32.41
23J5-6D	Temperatura Tablero Contraído	Temperature	-32.65
24J5-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
24J5-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
24J5-6D	Temperatura Tablero Dilatado	Temperature	32.41
24J5-6D	Temperatura Tablero Contraído	Temperature	-32.65
1T0-1D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
1T0-1D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
1T0-1D	Temperatura Tablero Dilatado	Temperature	32.41
1T0-1D	Temperatura Tablero Contraído	Temperature	-32.65
2T0-1D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
2T0-1D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
2T0-1D	Temperatura Tablero Dilatado	Temperature	32.41

2T0-1D	Temperatura Tablero Contraído	Temperature	-32.65
3T0-1D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
3T0-1D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
3T0-1D	Temperatura Tablero Dilatado	Temperature	32.41
3T0-1D	Temperatura Tablero Contraído	Temperature	-32.65
4T0-1D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
4T0-1D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
4T0-1D	Temperatura Tablero Dilatado	Temperature	32.41
4T0-1D	Temperatura Tablero Contraído	Temperature	-32.65
5T0-1D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
5T0-1D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
5T0-1D	Temperatura Tablero Dilatado	Temperature	32.41
5T0-1D	Temperatura Tablero Contraído	Temperature	-32.65
6T0-1D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
6T0-1D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
6T0-1D	Temperatura Tablero Dilatado	Temperature	32.41
6T0-1D	Temperatura Tablero Contraído	Temperature	-32.65
7T0-1D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
7T0-1D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
7T0-1D	Temperatura Tablero Dilatado	Temperature	32.41
7T0-1D	Temperatura Tablero Contraído	Temperature	-32.65
8T0-1D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
8T0-1D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
8T0-1D	Temperatura Tablero Dilatado	Temperature	32.41
8T0-1D	Temperatura Tablero Contraído	Temperature	-32.65
9T0-1D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
9T0-1D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
9T0-1D	Temperatura Tablero Dilatado	Temperature	32.41
9T0-1D	Temperatura Tablero Contraído	Temperature	-32.65
10T0-1D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
10T0-1D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
10T0-1D	Temperatura Tablero Dilatado	Temperature	32.41





10T0-1D	Temperatura Tablero Contraído	Temperature	-32.65
11T0-1D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
11T0-1D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
11T0-1D	Temperatura Tablero Dilatado	Temperature	32.41
11T0-1D	Temperatura Tablero Contraído	Temperature	-32.65
12T0-1D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
12T0-1D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
12T0-1D	Temperatura Tablero Dilatado	Temperature	32.41
12T0-1D	Temperatura Tablero Contraído	Temperature	-32.65
13T0-1D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
13T0-1D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
13T0-1D	Temperatura Tablero Dilatado	Temperature	32.41
13T0-1D	Temperatura Tablero Contraído	Temperature	-32.65
14T0-1D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
14T0-1D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
14T0-1D	Temperatura Tablero Dilatado	Temperature	32.41
14T0-1D	Temperatura Tablero Contraído	Temperature	-32.65
15T0-1D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
15T0-1D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
15T0-1D	Temperatura Tablero Dilatado	Temperature	32.41
15T0-1D	Temperatura Tablero Contraído	Temperature	-32.65
16T0-1D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
16T0-1D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
16T0-1D	Temperatura Tablero Dilatado	Temperature	32.41
16T0-1D	Temperatura Tablero Contraído	Temperature	-32.65
17T0-1D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
17T0-1D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
17T0-1D	Temperatura Tablero Dilatado	Temperature	32.41
17T0-1D	Temperatura Tablero Contraído	Temperature	-32.65
18T0-1D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
18T0-1D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
18T0-1D	Temperatura Tablero Dilatado	Temperature	32.41

18T0-1D	Temperatura Tablero Contraído	Temperature	-32.65
19T0-1D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
19T0-1D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
19T0-1D	Temperatura Tablero Dilatado	Temperature	32.41
19T0-1D	Temperatura Tablero Contraído	Temperature	-32.65
20T0-1D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
20T0-1D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
20T0-1D	Temperatura Tablero Dilatado	Temperature	32.41
20T0-1D	Temperatura Tablero Contraído	Temperature	-32.65
21T0-1D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
21T0-1D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
21T0-1D	Temperatura Tablero Dilatado	Temperature	32.41
21T0-1D	Temperatura Tablero Contraído	Temperature	-32.65
22T0-1D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
22T0-1D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
22T0-1D	Temperatura Tablero Dilatado	Temperature	32.41
22T0-1D	Temperatura Tablero Contraído	Temperature	-32.65
23T0-1D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
23T0-1D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
23T0-1D	Temperatura Tablero Dilatado	Temperature	32.41
23T0-1D	Temperatura Tablero Contraído	Temperature	-32.65
24T0-1D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
24T0-1D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
24T0-1D	Temperatura Tablero Dilatado	Temperature	32.41
24T0-1D	Temperatura Tablero Contraído	Temperature	-32.65
1T1-2D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
1T1-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
1T1-2D	Temperatura Tablero Dilatado	Temperature	32.41
1T1-2D	Temperatura Tablero Contraído	Temperature	-32.65
2T1-2D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
2T1-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
2T1-2D	Temperatura Tablero Dilatado	Temperature	32.41





2T1-2D	Temperatura Tablero Contraído	Temperature	-32.65
3T1-2D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
3T1-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
3T1-2D	Temperatura Tablero Dilatado	Temperature	32.41
3T1-2D	Temperatura Tablero Contraído	Temperature	-32.65
4T1-2D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
4T1-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
4T1-2D	Temperatura Tablero Dilatado	Temperature	32.41
4T1-2D	Temperatura Tablero Contraído	Temperature	-32.65
5T1-2D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
5T1-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
5T1-2D	Temperatura Tablero Dilatado	Temperature	32.41
5T1-2D	Temperatura Tablero Contraído	Temperature	-32.65
6T1-2D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
6T1-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
6T1-2D	Temperatura Tablero Dilatado	Temperature	32.41
6T1-2D	Temperatura Tablero Contraído	Temperature	-32.65
7T1-2D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
7T1-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
7T1-2D	Temperatura Tablero Dilatado	Temperature	32.41
7T1-2D	Temperatura Tablero Contraído	Temperature	-32.65
8T1-2D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
8T1-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
8T1-2D	Temperatura Tablero Dilatado	Temperature	32.41
8T1-2D	Temperatura Tablero Contraído	Temperature	-32.65
9T1-2D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
9T1-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
9T1-2D	Temperatura Tablero Dilatado	Temperature	32.41
9T1-2D	Temperatura Tablero Contraído	Temperature	-32.65
10T1-2D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
10T1-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
10T1-2D	Temperatura Tablero Dilatado	Temperature	32.41

10T1-2D	Temperatura Tablero Contraído	Temperature	-32.65
11T1-2D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
11T1-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
11T1-2D	Temperatura Tablero Dilatado	Temperature	32.41
11T1-2D	Temperatura Tablero Contraído	Temperature	-32.65
12T1-2D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
12T1-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
12T1-2D	Temperatura Tablero Dilatado	Temperature	32.41
12T1-2D	Temperatura Tablero Contraído	Temperature	-32.65
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13T1-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
13T1-2D	Temperatura Tablero Dilatado	Temperature	32.41
13T1-2D	Temperatura Tablero Contraído	Temperature	-32.65
14T1-2D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
14T1-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
14T1-2D	Temperatura Tablero Dilatado	Temperature	32.41
14T1-2D	Temperatura Tablero Contraído	Temperature	-32.65
15T1-2D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
15T1-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
15T1-2D	Temperatura Tablero Dilatado	Temperature	32.41
15T1-2D	Temperatura Tablero Contraído	Temperature	-32.65
16T1-2D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
16T1-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
16T1-2D	Temperatura Tablero Dilatado	Temperature	32.41
16T1-2D	Temperatura Tablero Contraído	Temperature	-32.65
17T1-2D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
17T1-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
17T1-2D	Temperatura Tablero Dilatado	Temperature	32.41
17T1-2D	Temperatura Tablero Contraído	Temperature	-32.65
18T1-2D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
18T1-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
18T1-2D	Temperatura Tablero Dilatado	Temperature	32.41



18T1-2D	Temperatura Tablero Contraído	Temperature	-32.65
19T1-2D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
19T1-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
19T1-2D	Temperatura Tablero Dilatado	Temperature	32.41
19T1-2D	Temperatura Tablero Contraído	Temperature	-32.65
20T1-2D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
20T1-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
20T1-2D	Temperatura Tablero Dilatado	Temperature	32.41
20T1-2D	Temperatura Tablero Contraído	Temperature	-32.65
21T1-2D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
21T1-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
21T1-2D	Temperatura Tablero Dilatado	Temperature	32.41
21T1-2D	Temperatura Tablero Contraído	Temperature	-32.65
22T1-2D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
22T1-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
22T1-2D	Temperatura Tablero Dilatado	Temperature	32.41
22T1-2D	Temperatura Tablero Contraído	Temperature	-32.65
23T1-2D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
23T1-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
23T1-2D	Temperatura Tablero Dilatado	Temperature	32.41
23T1-2D	Temperatura Tablero Contraído	Temperature	-32.65
24T1-2D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
24T1-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
24T1-2D	Temperatura Tablero Dilatado	Temperature	32.41
24T1-2D	Temperatura Tablero Contraído	Temperature	-32.65
1T2-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
1T2-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
1T2-3D	Temperatura Tablero Dilatado	Temperature	32.41
1T2-3D	Temperatura Tablero Contraído	Temperature	-32.65
2T2-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
2T2-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
2T2-3D	Temperatura Tablero Dilatado	Temperature	32.41

2T2-3D	Temperatura Tablero Contraído	Temperature	-32.65
3T2-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
3T2-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
3T2-3D	Temperatura Tablero Dilatado	Temperature	32.41
3T2-3D	Temperatura Tablero Contraído	Temperature	-32.65
4T2-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
4T2-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
4T2-3D	Temperatura Tablero Dilatado	Temperature	32.41
4T2-3D	Temperatura Tablero Contraído	Temperature	-32.65
5T2-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
5T2-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
5T2-3D	Temperatura Tablero Dilatado	Temperature	32.41
5T2-3D	Temperatura Tablero Contraído	Temperature	-32.65
6T2-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
6T2-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
6T2-3D	Temperatura Tablero Dilatado	Temperature	32.41
6T2-3D	Temperatura Tablero Contraído	Temperature	-32.65
7T2-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
7T2-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
7T2-3D	Temperatura Tablero Dilatado	Temperature	32.41
7T2-3D	Temperatura Tablero Contraído	Temperature	-32.65
8T2-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
8T2-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
8T2-3D	Temperatura Tablero Dilatado	Temperature	32.41
8T2-3D	Temperatura Tablero Contraído	Temperature	-32.65
9T2-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
9T2-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
9T2-3D	Temperatura Tablero Dilatado	Temperature	32.41
9T2-3D	Temperatura Tablero Contraído	Temperature	-32.65
10T2-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
10T2-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
10T2-3D	Temperatura Tablero Dilatado	Temperature	32.41



10T2-3D	Temperatura Tablero Contraído	Temperature	-32.65
11T2-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
11T2-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
11T2-3D	Temperatura Tablero Dilatado	Temperature	32.41
11T2-3D	Temperatura Tablero Contraído	Temperature	-32.65
12T2-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
12T2-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
12T2-3D	Temperatura Tablero Dilatado	Temperature	32.41
12T2-3D	Temperatura Tablero Contraído	Temperature	-32.65
13T2-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
13T2-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
13T2-3D	Temperatura Tablero Dilatado	Temperature	32.41
13T2-3D	Temperatura Tablero Contraído	Temperature	-32.65
14T2-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
14T2-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
14T2-3D	Temperatura Tablero Dilatado	Temperature	32.41
14T2-3D	Temperatura Tablero Contraído	Temperature	-32.65
15T2-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
15T2-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
15T2-3D	Temperatura Tablero Dilatado	Temperature	32.41
15T2-3D	Temperatura Tablero Contraído	Temperature	-32.65
16T2-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
16T2-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
16T2-3D	Temperatura Tablero Dilatado	Temperature	32.41
16T2-3D	Temperatura Tablero Contraído	Temperature	-32.65
17T2-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
17T2-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
17T2-3D	Temperatura Tablero Dilatado	Temperature	32.41
17T2-3D	Temperatura Tablero Contraído	Temperature	-32.65
18T2-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
18T2-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
18T2-3D	Temperatura Tablero Dilatado	Temperature	32.41

18T2-3D	Temperatura Tablero Contraído	Temperature	-32.65
19T2-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
19T2-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
19T2-3D	Temperatura Tablero Dilatado	Temperature	32.41
19T2-3D	Temperatura Tablero Contraído	Temperature	-32.65
20T2-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
20T2-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
20T2-3D	Temperatura Tablero Dilatado	Temperature	32.41
20T2-3D	Temperatura Tablero Contraído	Temperature	-32.65
21T2-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
21T2-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
21T2-3D	Temperatura Tablero Dilatado	Temperature	32.41
21T2-3D	Temperatura Tablero Contraído	Temperature	-32.65
22T2-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
22T2-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
22T2-3D	Temperatura Tablero Dilatado	Temperature	32.41
22T2-3D	Temperatura Tablero Contraído	Temperature	-32.65
23T2-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
23T2-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
23T2-3D	Temperatura Tablero Dilatado	Temperature	32.41
23T2-3D	Temperatura Tablero Contraído	Temperature	-32.65
24T2-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
24T2-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
24T2-3D	Temperatura Tablero Dilatado	Temperature	32.41
24T2-3D	Temperatura Tablero Contraído	Temperature	-32.65
1T3-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
1T3-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
1T3-4D	Temperatura Tablero Dilatado	Temperature	32.41
1T3-4D	Temperatura Tablero Contraído	Temperature	-32.65
2T3-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
2T3-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
2T3-4D	Temperatura Tablero Dilatado	Temperature	32.41



2T3-4D	Temperatura Tablero Contraído	Temperature	-32.65
3T3-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
3T3-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
3T3-4D	Temperatura Tablero Dilatado	Temperature	32.41
3T3-4D	Temperatura Tablero Contraído	Temperature	-32.65
4T3-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
4T3-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
4T3-4D	Temperatura Tablero Dilatado	Temperature	32.41
4T3-4D	Temperatura Tablero Contraído	Temperature	-32.65
5T3-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
5T3-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
5T3-4D	Temperatura Tablero Dilatado	Temperature	32.41
5T3-4D	Temperatura Tablero Contraído	Temperature	-32.65
6T3-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
6T3-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
6T3-4D	Temperatura Tablero Dilatado	Temperature	32.41
6T3-4D	Temperatura Tablero Contraído	Temperature	-32.65
7T3-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
7T3-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
7T3-4D	Temperatura Tablero Dilatado	Temperature	32.41
7T3-4D	Temperatura Tablero Contraído	Temperature	-32.65
8T3-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
8T3-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
8T3-4D	Temperatura Tablero Dilatado	Temperature	32.41
8T3-4D	Temperatura Tablero Contraído	Temperature	-32.65
9T3-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
9T3-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
9T3-4D	Temperatura Tablero Dilatado	Temperature	32.41
9T3-4D	Temperatura Tablero Contraído	Temperature	-32.65
10T3-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
10T3-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
10T3-4D	Temperatura Tablero Dilatado	Temperature	32.41

10T3-4D	Temperatura Tablero Contraído	Temperature	-32.65
11T3-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
11T3-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
11T3-4D	Temperatura Tablero Dilatado	Temperature	32.41
11T3-4D	Temperatura Tablero Contraído	Temperature	-32.65
12T3-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
12T3-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
12T3-4D	Temperatura Tablero Dilatado	Temperature	32.41
12T3-4D	Temperatura Tablero Contraído	Temperature	-32.65
13T3-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
13T3-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
13T3-4D	Temperatura Tablero Dilatado	Temperature	32.41
13T3-4D	Temperatura Tablero Contraído	Temperature	-32.65
14T3-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
14T3-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
14T3-4D	Temperatura Tablero Dilatado	Temperature	32.41
14T3-4D	Temperatura Tablero Contraído	Temperature	-32.65
15T3-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
15T3-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
15T3-4D	Temperatura Tablero Dilatado	Temperature	32.41
15T3-4D	Temperatura Tablero Contraído	Temperature	-32.65
16T3-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
16T3-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
16T3-4D	Temperatura Tablero Dilatado	Temperature	32.41
16T3-4D	Temperatura Tablero Contraído	Temperature	-32.65
17T3-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
17T3-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
17T3-4D	Temperatura Tablero Dilatado	Temperature	32.41
17T3-4D	Temperatura Tablero Contraído	Temperature	-32.65
18T3-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
18T3-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
18T3-4D	Temperatura Tablero Dilatado	Temperature	32.41





18T3-4D	Temperatura Tablero Contraído	Temperature	-32.65
19T3-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
19T3-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
19T3-4D	Temperatura Tablero Dilatado	Temperature	32.41
19T3-4D	Temperatura Tablero Contraído	Temperature	-32.65
20T3-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
20T3-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
20T3-4D	Temperatura Tablero Dilatado	Temperature	32.41
20T3-4D	Temperatura Tablero Contraído	Temperature	-32.65
21T3-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
21T3-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
21T3-4D	Temperatura Tablero Dilatado	Temperature	32.41
21T3-4D	Temperatura Tablero Contraído	Temperature	-32.65
22T3-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
22T3-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
22T3-4D	Temperatura Tablero Dilatado	Temperature	32.41
22T3-4D	Temperatura Tablero Contraído	Temperature	-32.65
23T3-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
23T3-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
23T3-4D	Temperatura Tablero Dilatado	Temperature	32.41
23T3-4D	Temperatura Tablero Contraído	Temperature	-32.65
24T3-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
24T3-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
24T3-4D	Temperatura Tablero Dilatado	Temperature	32.41
24T3-4D	Temperatura Tablero Contraído	Temperature	-32.65
L1D-2D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L1D-2D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L1D-2D	Temperatura Tablero Dilatado	Temperature	32.41
L1D-2D	Temperatura Tablero Contraído	Temperature	-32.65
L2D-3D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L2D-3D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L2D-3D	Temperatura Tablero Dilatado	Temperature	32.41

L2D-3D	Temperatura Tablero Contraído	Temperature	-32.65
L3D-4D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L3D-4D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L3D-4D	Temperatura Tablero Dilatado	Temperature	32.41
L3D-4D	Temperatura Tablero Contraído	Temperature	-32.65
L4D-5D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L4D-5D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L4D-5D	Temperatura Tablero Dilatado	Temperature	32.41
L4D-5D	Temperatura Tablero Contraído	Temperature	-32.65
L5D-6D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L5D-6D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L5D-6D	Temperatura Tablero Dilatado	Temperature	32.41
L5D-6D	Temperatura Tablero Contraído	Temperature	-32.65
L6D-7D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L6D-7D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L6D-7D	Temperatura Tablero Dilatado	Temperature	32.41
L6D-7D	Temperatura Tablero Contraído	Temperature	-32.65
L7D-8D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L7D-8D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L7D-8D	Temperatura Tablero Dilatado	Temperature	32.41
L7D-8D	Temperatura Tablero Contraído	Temperature	-32.65
L8D-9D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L8D-9D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L8D-9D	Temperatura Tablero Dilatado	Temperature	32.41
L8D-9D	Temperatura Tablero Contraído	Temperature	-32.65
L9D-10D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L9D-10D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L9D-10D	Temperatura Tablero Dilatado	Temperature	32.41
L9D-10D	Temperatura Tablero Contraído	Temperature	-32.65
L10D-11D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L10D-11D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L10D-11D	Temperatura Tablero Dilatado	Temperature	32.41





L10D-11D	Temperatura Tablero Contraído	Temperature	-32.65
L11D-12D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L11D-12D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L11D-12D	Temperatura Tablero Dilatado	Temperature	32.41
L11D-12D	Temperatura Tablero Contraído	Temperature	-32.65
L12-13D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L12-13D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L12-13D	Temperatura Tablero Dilatado	Temperature	32.41
L12-13D	Temperatura Tablero Contraído	Temperature	-32.65
L13D-14D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L13D-14D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L13D-14D	Temperatura Tablero Dilatado	Temperature	32.41
L13D-14D	Temperatura Tablero Contraído	Temperature	-32.65
L14D-15D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L14D-15D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L14D-15D	Temperatura Tablero Dilatado	Temperature	32.41
L14D-15D	Temperatura Tablero Contraído	Temperature	-32.65
L15D-16D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L15D-16D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L15D-16D	Temperatura Tablero Dilatado	Temperature	32.41
L15D-16D	Temperatura Tablero Contraído	Temperature	-32.65
L16D-17D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L16D-17D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L16D-17D	Temperatura Tablero Dilatado	Temperature	32.41
L16D-17D	Temperatura Tablero Contraído	Temperature	-32.65
L17D-18D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L17D-18D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L17D-18D	Temperatura Tablero Dilatado	Temperature	32.41
L17D-18D	Temperatura Tablero Contraído	Temperature	-32.65
L18D-19D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L18D-19D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L18D-19D	Temperatura Tablero Dilatado	Temperature	32.41

L18D-19D	Temperatura Tablero Contraído	Temperature	-32.65
L19D-20D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L19D-20D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L19D-20D	Temperatura Tablero Dilatado	Temperature	32.41
L19D-20D	Temperatura Tablero Contraído	Temperature	-32.65
L20D-21D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L20D-21D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L20D-21D	Temperatura Tablero Dilatado	Temperature	32.41
L20D-21D	Temperatura Tablero Contraído	Temperature	-32.65
L21D-22D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L21D-22D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L21D-22D	Temperatura Tablero Dilatado	Temperature	32.41
L21D-22D	Temperatura Tablero Contraído	Temperature	-32.65
L22D-23D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L22D-23D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L22D-23D	Temperatura Tablero Dilatado	Temperature	32.41
L22D-23D	Temperatura Tablero Contraído	Temperature	-32.65
L23D-24D	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L23D-24D	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L23D-24D	Temperatura Tablero Dilatado	Temperature	32.41
L23D-24D	Temperatura Tablero Contraído	Temperature	-32.65
1J6-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
1J6-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
1J6-7I	Temperatura Tablero Dilatado	Temperature	32.41
1J6-7I	Temperatura Tablero Contraído	Temperature	-32.65
2J6-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
2J6-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
2J6-7I	Temperatura Tablero Dilatado	Temperature	32.41
2J6-7I	Temperatura Tablero Contraído	Temperature	-32.65
3J6-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
3J6-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
3J6-7I	Temperatura Tablero Dilatado	Temperature	32.41



3J6-7I	Temperatura Tablero Contraído	Temperature	-32.65
4J6-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
4J6-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
4J6-7I	Temperatura Tablero Dilatado	Temperature	32.41
4J6-7I	Temperatura Tablero Contraído	Temperature	-32.65
5J6-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
5J6-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
5J6-7I	Temperatura Tablero Dilatado	Temperature	32.41
5J6-7I	Temperatura Tablero Contraído	Temperature	-32.65
6J6-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
6J6-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
6J6-7I	Temperatura Tablero Dilatado	Temperature	32.41
6J6-7I	Temperatura Tablero Contraído	Temperature	-32.65
7J6-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
7J6-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
7J6-7I	Temperatura Tablero Dilatado	Temperature	32.41
7J6-7I	Temperatura Tablero Contraído	Temperature	-32.65
8J6-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
8J6-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
8J6-7I	Temperatura Tablero Dilatado	Temperature	32.41
8J6-7I	Temperatura Tablero Contraído	Temperature	-32.65
9J6-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
9J6-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
9J6-7I	Temperatura Tablero Dilatado	Temperature	32.41
9J6-7I	Temperatura Tablero Contraído	Temperature	-32.65
10J6-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
10J6-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
10J6-7I	Temperatura Tablero Dilatado	Temperature	32.41
10J6-7I	Temperatura Tablero Contraído	Temperature	-32.65
11J6-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
11J6-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
11J6-7I	Temperatura Tablero Dilatado	Temperature	32.41

11J6-7I	Temperatura Tablero Contraído	Temperature	-32.65
12J6-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
12J6-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
12J6-7I	Temperatura Tablero Dilatado	Temperature	32.41
12J6-7I	Temperatura Tablero Contraído	Temperature	-32.65
13J6-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
13J6-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
13J6-7I	Temperatura Tablero Dilatado	Temperature	32.41
13J6-7I	Temperatura Tablero Contraído	Temperature	-32.65
14J6-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
14J6-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
14J6-7I	Temperatura Tablero Dilatado	Temperature	32.41
14J6-7I	Temperatura Tablero Contraído	Temperature	-32.65
15J6-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
15J6-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
15J6-7I	Temperatura Tablero Dilatado	Temperature	32.41
15J6-7I	Temperatura Tablero Contraído	Temperature	-32.65
16J6-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
16J6-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
16J6-7I	Temperatura Tablero Dilatado	Temperature	32.41
16J6-7I	Temperatura Tablero Contraído	Temperature	-32.65
17J6-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
17J6-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
17J6-7I	Temperatura Tablero Dilatado	Temperature	32.41
17J6-7I	Temperatura Tablero Contraído	Temperature	-32.65
18J6-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
18J6-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
18J6-7I	Temperatura Tablero Dilatado	Temperature	32.41
18J6-7I	Temperatura Tablero Contraído	Temperature	-32.65
19J6-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
19J6-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
19J6-7I	Temperatura Tablero Dilatado	Temperature	32.41



19J6-7I	Temperatura Tablero Contraído	Temperature	-32.65
20J6-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
20J6-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
20J6-7I	Temperatura Tablero Dilatado	Temperature	32.41
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21J6-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
21J6-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
21J6-7I	Temperatura Tablero Dilatado	Temperature	32.41
21J6-7I	Temperatura Tablero Contraído	Temperature	-32.65
22J6-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
22J6-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
22J6-7I	Temperatura Tablero Dilatado	Temperature	32.41
22J6-7I	Temperatura Tablero Contraído	Temperature	-32.65
23J6-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
23J6-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
23J6-7I	Temperatura Tablero Dilatado	Temperature	32.41
23J6-7I	Temperatura Tablero Contraído	Temperature	-32.65
24J6-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
24J6-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
24J6-7I	Temperatura Tablero Dilatado	Temperature	32.41
24J6-7I	Temperatura Tablero Contraído	Temperature	-32.65
1J5-6I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
1J5-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
1J5-6I	Temperatura Tablero Dilatado	Temperature	32.41
1J5-6I	Temperatura Tablero Contraído	Temperature	-32.65
2J5-6I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
2J5-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
2J5-6I	Temperatura Tablero Dilatado	Temperature	32.41
2J5-6I	Temperatura Tablero Contraído	Temperature	-32.65
3J5-6I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
3J5-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
3J5-6I	Temperatura Tablero Dilatado	Temperature	32.41

3J5-6I	Temperatura Tablero Contraído	Temperature	-32.65
4J5-6I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
4J5-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
4J5-6I	Temperatura Tablero Dilatado	Temperature	32.41
4J5-6I	Temperatura Tablero Contraído	Temperature	-32.65
5J5-6I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
5J5-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
5J5-6I	Temperatura Tablero Dilatado	Temperature	32.41
5J5-6I	Temperatura Tablero Contraído	Temperature	-32.65
6J5-6I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
6J5-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
6J5-6I	Temperatura Tablero Dilatado	Temperature	32.41
6J5-6I	Temperatura Tablero Contraído	Temperature	-32.65
7J5-6I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
7J5-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
7J5-6I	Temperatura Tablero Dilatado	Temperature	32.41
7J5-6I	Temperatura Tablero Contraído	Temperature	-32.65
8J5-6I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
8J5-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
8J5-6I	Temperatura Tablero Dilatado	Temperature	32.41
8J5-6I	Temperatura Tablero Contraído	Temperature	-32.65
9J5-6I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
9J5-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
9J5-6I	Temperatura Tablero Dilatado	Temperature	32.41
9J5-6I	Temperatura Tablero Contraído	Temperature	-32.65
10J5-6I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
10J5-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
10J5-6I	Temperatura Tablero Dilatado	Temperature	32.41
10J5-6I	Temperatura Tablero Contraído	Temperature	-32.65
11J5-6I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
11J5-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
11J5-6I	Temperatura Tablero Dilatado	Temperature	32.41



11J5-6I	Temperatura Tablero Contraído	Temperature	-32.65
12J5-6I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
12J5-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
12J5-6I	Temperatura Tablero Dilatado	Temperature	32.41
12J5-6I	Temperatura Tablero Contraído	Temperature	-32.65
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13J5-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
13J5-6I	Temperatura Tablero Dilatado	Temperature	32.41
13J5-6I	Temperatura Tablero Contraído	Temperature	-32.65
14J5-6I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
14J5-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
14J5-6I	Temperatura Tablero Dilatado	Temperature	32.41
14J5-6I	Temperatura Tablero Contraído	Temperature	-32.65
15J5-6I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
15J5-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
15J5-6I	Temperatura Tablero Dilatado	Temperature	32.41
15J5-6I	Temperatura Tablero Contraído	Temperature	-32.65
16J5-6I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
16J5-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
16J5-6I	Temperatura Tablero Dilatado	Temperature	32.41
16J5-6I	Temperatura Tablero Contraído	Temperature	-32.65
17J5-6I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
17J5-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
17J5-6I	Temperatura Tablero Dilatado	Temperature	32.41
17J5-6I	Temperatura Tablero Contraído	Temperature	-32.65
18J5-6I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
18J5-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
18J5-6I	Temperatura Tablero Dilatado	Temperature	32.41
18J5-6I	Temperatura Tablero Contraído	Temperature	-32.65
19J5-6I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
19J5-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
19J5-6I	Temperatura Tablero Dilatado	Temperature	32.41

19J5-6I	Temperatura Tablero Contraído	Temperature	-32.65
20J5-6I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
20J5-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
20J5-6I	Temperatura Tablero Dilatado	Temperature	32.41
20J5-6I	Temperatura Tablero Contraído	Temperature	-32.65
21J5-6I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
21J5-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
21J5-6I	Temperatura Tablero Dilatado	Temperature	32.41
21J5-6I	Temperatura Tablero Contraído	Temperature	-32.65
22J5-6I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
22J5-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
22J5-6I	Temperatura Tablero Dilatado	Temperature	32.41
22J5-6I	Temperatura Tablero Contraído	Temperature	-32.65
23J5-6I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
23J5-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
23J5-6I	Temperatura Tablero Dilatado	Temperature	32.41
23J5-6I	Temperatura Tablero Contraído	Temperature	-32.65
24J5-6I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
24J5-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
24J5-6I	Temperatura Tablero Dilatado	Temperature	32.41
24J5-6I	Temperatura Tablero Contraído	Temperature	-32.65
1T3-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
1T3-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
1T3-4I	Temperatura Tablero Dilatado	Temperature	32.41
1T3-4I	Temperatura Tablero Contraído	Temperature	-32.65
2T3-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
2T3-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
2T3-4I	Temperatura Tablero Dilatado	Temperature	32.41
2T3-4I	Temperatura Tablero Contraído	Temperature	-32.65
3T3-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
3T3-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
3T3-4I	Temperatura Tablero Dilatado	Temperature	32.41





3T3-4I	Temperatura Tablero Contraído	Temperature	-32.65
4T3-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
4T3-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
4T3-4I	Temperatura Tablero Dilatado	Temperature	32.41
4T3-4I	Temperatura Tablero Contraído	Temperature	-32.65
5T3-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
5T3-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
5T3-4I	Temperatura Tablero Dilatado	Temperature	32.41
5T3-4I	Temperatura Tablero Contraído	Temperature	-32.65
6T3-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
6T3-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
6T3-4I	Temperatura Tablero Dilatado	Temperature	32.41
6T3-4I	Temperatura Tablero Contraído	Temperature	-32.65
7T3-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
7T3-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
7T3-4I	Temperatura Tablero Dilatado	Temperature	32.41
7T3-4I	Temperatura Tablero Contraído	Temperature	-32.65
8T3-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
8T3-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
8T3-4I	Temperatura Tablero Dilatado	Temperature	32.41
8T3-4I	Temperatura Tablero Contraído	Temperature	-32.65
9T3-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
9T3-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
9T3-4I	Temperatura Tablero Dilatado	Temperature	32.41
9T3-4I	Temperatura Tablero Contraído	Temperature	-32.65
10T3-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
10T3-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
10T3-4I	Temperatura Tablero Dilatado	Temperature	32.41
10T3-4I	Temperatura Tablero Contraído	Temperature	-32.65
11T3-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
11T3-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
11T3-4I	Temperatura Tablero Dilatado	Temperature	32.41

11T3-4I	Temperatura Tablero Contraído	Temperature	-32.65
12T3-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
12T3-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
12T3-4I	Temperatura Tablero Dilatado	Temperature	32.41
12T3-4I	Temperatura Tablero Contraído	Temperature	-32.65
13T3-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
13T3-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
13T3-4I	Temperatura Tablero Dilatado	Temperature	32.41
13T3-4I	Temperatura Tablero Contraído	Temperature	-32.65
14T3-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
14T3-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
14T3-4I	Temperatura Tablero Dilatado	Temperature	32.41
14T3-4I	Temperatura Tablero Contraído	Temperature	-32.65
15T3-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
15T3-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
15T3-4I	Temperatura Tablero Dilatado	Temperature	32.41
15T3-4I	Temperatura Tablero Contraído	Temperature	-32.65
16T3-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
16T3-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
16T3-4I	Temperatura Tablero Dilatado	Temperature	32.41
16T3-4I	Temperatura Tablero Contraído	Temperature	-32.65
17T3-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
17T3-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
17T3-4I	Temperatura Tablero Dilatado	Temperature	32.41
17T3-4I	Temperatura Tablero Contraído	Temperature	-32.65
18T3-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
18T3-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
18T3-4I	Temperatura Tablero Dilatado	Temperature	32.41
18T3-4I	Temperatura Tablero Contraído	Temperature	-32.65
19T3-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
19T3-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
19T3-4I	Temperatura Tablero Dilatado	Temperature	32.41





19T3-4I	Temperatura Tablero Contraído	Temperature	-32.65
20T3-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
20T3-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
20T3-4I	Temperatura Tablero Dilatado	Temperature	32.41
20T3-4I	Temperatura Tablero Contraído	Temperature	-32.65
21T3-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
21T3-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
21T3-4I	Temperatura Tablero Dilatado	Temperature	32.41
21T3-4I	Temperatura Tablero Contraído	Temperature	-32.65
22T3-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
22T3-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
22T3-4I	Temperatura Tablero Dilatado	Temperature	32.41
22T3-4I	Temperatura Tablero Contraído	Temperature	-32.65
23T3-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
23T3-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
23T3-4I	Temperatura Tablero Dilatado	Temperature	32.41
23T3-4I	Temperatura Tablero Contraído	Temperature	-32.65
24T3-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
24T3-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
24T3-4I	Temperatura Tablero Dilatado	Temperature	32.41
24T3-4I	Temperatura Tablero Contraído	Temperature	-32.65
1T2-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
1T2-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
1T2-3I	Temperatura Tablero Dilatado	Temperature	32.41
1T2-3I	Temperatura Tablero Contraído	Temperature	-32.65
2T2-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
2T2-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
2T2-3I	Temperatura Tablero Dilatado	Temperature	32.41
2T2-3I	Temperatura Tablero Contraído	Temperature	-32.65
3T2-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
3T2-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
3T2-3I	Temperatura Tablero Dilatado	Temperature	32.41

3T2-3I	Temperatura Tablero Contraído	Temperature	-32.65
4T2-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
4T2-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
4T2-3I	Temperatura Tablero Dilatado	Temperature	32.41
4T2-3I	Temperatura Tablero Contraído	Temperature	-32.65
5T2-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
5T2-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
5T2-3I	Temperatura Tablero Dilatado	Temperature	32.41
5T2-3I	Temperatura Tablero Contraído	Temperature	-32.65
6T2-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
6T2-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
6T2-3I	Temperatura Tablero Dilatado	Temperature	32.41
6T2-3I	Temperatura Tablero Contraído	Temperature	-32.65
7T2-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
7T2-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
7T2-3I	Temperatura Tablero Dilatado	Temperature	32.41
7T2-3I	Temperatura Tablero Contraído	Temperature	-32.65
8T2-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
8T2-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
8T2-3I	Temperatura Tablero Dilatado	Temperature	32.41
8T2-3I	Temperatura Tablero Contraído	Temperature	-32.65
9T2-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
9T2-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
9T2-3I	Temperatura Tablero Dilatado	Temperature	32.41
9T2-3I	Temperatura Tablero Contraído	Temperature	-32.65
10T2-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
10T2-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
10T2-3I	Temperatura Tablero Dilatado	Temperature	32.41
10T2-3I	Temperatura Tablero Contraído	Temperature	-32.65
11T2-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
11T2-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
11T2-3I	Temperatura Tablero Dilatado	Temperature	32.41



11T2-3I	Temperatura Tablero Contraído	Temperature	-32.65
12T2-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
12T2-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
12T2-3I	Temperatura Tablero Dilatado	Temperature	32.41
12T2-3I	Temperatura Tablero Contraído	Temperature	-32.65
13T2-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
13T2-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
13T2-3I	Temperatura Tablero Dilatado	Temperature	32.41
13T2-3I	Temperatura Tablero Contraído	Temperature	-32.65
14T2-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
14T2-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
14T2-3I	Temperatura Tablero Dilatado	Temperature	32.41
14T2-3I	Temperatura Tablero Contraído	Temperature	-32.65
15T2-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
15T2-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
15T2-3I	Temperatura Tablero Dilatado	Temperature	32.41
15T2-3I	Temperatura Tablero Contraído	Temperature	-32.65
16T2-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
16T2-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
16T2-3I	Temperatura Tablero Dilatado	Temperature	32.41
16T2-3I	Temperatura Tablero Contraído	Temperature	-32.65
17T2-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
17T2-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
17T2-3I	Temperatura Tablero Dilatado	Temperature	32.41
17T2-3I	Temperatura Tablero Contraído	Temperature	-32.65
18T2-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
18T2-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
18T2-3I	Temperatura Tablero Dilatado	Temperature	32.41
18T2-3I	Temperatura Tablero Contraído	Temperature	-32.65
19T2-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
19T2-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
19T2-3I	Temperatura Tablero Dilatado	Temperature	32.41

19T2-3I	Temperatura Tablero Contraído	Temperature	-32.65
20T2-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
20T2-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
20T2-3I	Temperatura Tablero Dilatado	Temperature	32.41
20T2-3I	Temperatura Tablero Contraído	Temperature	-32.65
21T2-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
21T2-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
21T2-3I	Temperatura Tablero Dilatado	Temperature	32.41
21T2-3I	Temperatura Tablero Contraído	Temperature	-32.65
22T2-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
22T2-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
22T2-3I	Temperatura Tablero Dilatado	Temperature	32.41
22T2-3I	Temperatura Tablero Contraído	Temperature	-32.65
23T2-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
23T2-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
23T2-3I	Temperatura Tablero Dilatado	Temperature	32.41
23T2-3I	Temperatura Tablero Contraído	Temperature	-32.65
24T2-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
24T2-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
24T2-3I	Temperatura Tablero Dilatado	Temperature	32.41
24T2-3I	Temperatura Tablero Contraído	Temperature	-32.65
1T1-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
1T1-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
1T1-2I	Temperatura Tablero Dilatado	Temperature	32.41
1T1-2I	Temperatura Tablero Contraído	Temperature	-32.65
2T1-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
2T1-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
2T1-2I	Temperatura Tablero Dilatado	Temperature	32.41
2T1-2I	Temperatura Tablero Contraído	Temperature	-32.65
3T1-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
3T1-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
3T1-2I	Temperatura Tablero Dilatado	Temperature	32.41



3T1-2I	Temperatura Tablero Contraído	Temperature	-32.65
4T1-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
4T1-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
4T1-2I	Temperatura Tablero Dilatado	Temperature	32.41
4T1-2I	Temperatura Tablero Contraído	Temperature	-32.65
5T1-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
5T1-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
5T1-2I	Temperatura Tablero Dilatado	Temperature	32.41
5T1-2I	Temperatura Tablero Contraído	Temperature	-32.65
6T1-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
6T1-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
6T1-2I	Temperatura Tablero Dilatado	Temperature	32.41
6T1-2I	Temperatura Tablero Contraído	Temperature	-32.65
7T1-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
7T1-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
7T1-2I	Temperatura Tablero Dilatado	Temperature	32.41
7T1-2I	Temperatura Tablero Contraído	Temperature	-32.65
8T1-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
8T1-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
8T1-2I	Temperatura Tablero Dilatado	Temperature	32.41
8T1-2I	Temperatura Tablero Contraído	Temperature	-32.65
9T1-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
9T1-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
9T1-2I	Temperatura Tablero Dilatado	Temperature	32.41
9T1-2I	Temperatura Tablero Contraído	Temperature	-32.65
10T1-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
10T1-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
10T1-2I	Temperatura Tablero Dilatado	Temperature	32.41
10T1-2I	Temperatura Tablero Contraído	Temperature	-32.65
11T1-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
11T1-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
11T1-2I	Temperatura Tablero Dilatado	Temperature	32.41

11T1-2I	Temperatura Tablero Contraído	Temperature	-32.65
12T1-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
12T1-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
12T1-2I	Temperatura Tablero Dilatado	Temperature	32.41
12T1-2I	Temperatura Tablero Contraído	Temperature	-32.65
13T1-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
13T1-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
13T1-2I	Temperatura Tablero Dilatado	Temperature	32.41
13T1-2I	Temperatura Tablero Contraído	Temperature	-32.65
14T1-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
14T1-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
14T1-2I	Temperatura Tablero Dilatado	Temperature	32.41
14T1-2I	Temperatura Tablero Contraído	Temperature	-32.65
15T1-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
15T1-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
15T1-2I	Temperatura Tablero Dilatado	Temperature	32.41
15T1-2I	Temperatura Tablero Contraído	Temperature	-32.65
16T1-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
16T1-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
16T1-2I	Temperatura Tablero Dilatado	Temperature	32.41
16T1-2I	Temperatura Tablero Contraído	Temperature	-32.65
17T1-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
17T1-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
17T1-2I	Temperatura Tablero Dilatado	Temperature	32.41
17T1-2I	Temperatura Tablero Contraído	Temperature	-32.65
18T1-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
18T1-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
18T1-2I	Temperatura Tablero Dilatado	Temperature	32.41
18T1-2I	Temperatura Tablero Contraído	Temperature	-32.65
19T1-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
19T1-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
19T1-2I	Temperatura Tablero Dilatado	Temperature	32.41



19T1-2I	Temperatura Tablero Contraído	Temperature	-32.65
20T1-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
20T1-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
20T1-2I	Temperatura Tablero Dilatado	Temperature	32.41
20T1-2I	Temperatura Tablero Contraído	Temperature	-32.65
21T1-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
21T1-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
21T1-2I	Temperatura Tablero Dilatado	Temperature	32.41
21T1-2I	Temperatura Tablero Contraído	Temperature	-32.65
22T1-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
22T1-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
22T1-2I	Temperatura Tablero Dilatado	Temperature	32.41
22T1-2I	Temperatura Tablero Contraído	Temperature	-32.65
23T1-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
23T1-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
23T1-2I	Temperatura Tablero Dilatado	Temperature	32.41
23T1-2I	Temperatura Tablero Contraído	Temperature	-32.65
24T1-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
24T1-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
24T1-2I	Temperatura Tablero Dilatado	Temperature	32.41
24T1-2I	Temperatura Tablero Contraído	Temperature	-32.65
1T0-1I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
1T0-1I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
1T0-1I	Temperatura Tablero Dilatado	Temperature	32.41
1T0-1I	Temperatura Tablero Contraído	Temperature	-32.65
2T0-1I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
2T0-1I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
2T0-1I	Temperatura Tablero Dilatado	Temperature	32.41
2T0-1I	Temperatura Tablero Contraído	Temperature	-32.65
3T0-1I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
3T0-1I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
3T0-1I	Temperatura Tablero Dilatado	Temperature	32.41

3T0-1I	Temperatura Tablero Contraído	Temperature	-32.65
4T0-1I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
4T0-1I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
4T0-1I	Temperatura Tablero Dilatado	Temperature	32.41
4T0-1I	Temperatura Tablero Contraído	Temperature	-32.65
5T0-1I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
5T0-1I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
5T0-1I	Temperatura Tablero Dilatado	Temperature	32.41
5T0-1I	Temperatura Tablero Contraído	Temperature	-32.65
6T0-1I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
6T0-1I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
6T0-1I	Temperatura Tablero Dilatado	Temperature	32.41
6T0-1I	Temperatura Tablero Contraído	Temperature	-32.65
7T0-1I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
7T0-1I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
7T0-1I	Temperatura Tablero Dilatado	Temperature	32.41
7T0-1I	Temperatura Tablero Contraído	Temperature	-32.65
8T0-1I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
8T0-1I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
8T0-1I	Temperatura Tablero Dilatado	Temperature	32.41
8T0-1I	Temperatura Tablero Contraído	Temperature	-32.65
9T0-1I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
9T0-1I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
9T0-1I	Temperatura Tablero Dilatado	Temperature	32.41
9T0-1I	Temperatura Tablero Contraído	Temperature	-32.65
10T0-1I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
10T0-1I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
10T0-1I	Temperatura Tablero Dilatado	Temperature	32.41
10T0-1I	Temperatura Tablero Contraído	Temperature	-32.65
11T0-1I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
11T0-1I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
11T0-1I	Temperatura Tablero Dilatado	Temperature	32.41





11T0-1I	Temperatura Tablero Contraído	Temperature	-32.65
12T0-1I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
12T0-1I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
12T0-1I	Temperatura Tablero Dilatado	Temperature	32.41
12T0-1I	Temperatura Tablero Contraído	Temperature	-32.65
13T0-1I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
13T0-1I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
13T0-1I	Temperatura Tablero Dilatado	Temperature	32.41
13T0-1I	Temperatura Tablero Contraído	Temperature	-32.65
14T0-1I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
14T0-1I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
14T0-1I	Temperatura Tablero Dilatado	Temperature	32.41
14T0-1I	Temperatura Tablero Contraído	Temperature	-32.65
15T0-1I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
15T0-1I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
15T0-1I	Temperatura Tablero Dilatado	Temperature	32.41
15T0-1I	Temperatura Tablero Contraído	Temperature	-32.65
16T0-1I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
16T0-1I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
16T0-1I	Temperatura Tablero Dilatado	Temperature	32.41
16T0-1I	Temperatura Tablero Contraído	Temperature	-32.65
17T0-1I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
17T0-1I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
17T0-1I	Temperatura Tablero Dilatado	Temperature	32.41
17T0-1I	Temperatura Tablero Contraído	Temperature	-32.65
18T0-1I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
18T0-1I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
18T0-1I	Temperatura Tablero Dilatado	Temperature	32.41
18T0-1I	Temperatura Tablero Contraído	Temperature	-32.65
19T0-1I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
19T0-1I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
19T0-1I	Temperatura Tablero Dilatado	Temperature	32.41

19T0-1I	Temperatura Tablero Contraído	Temperature	-32.65
20T0-1I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
20T0-1I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
20T0-1I	Temperatura Tablero Dilatado	Temperature	32.41
20T0-1I	Temperatura Tablero Contraído	Temperature	-32.65
21T0-1I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
21T0-1I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
21T0-1I	Temperatura Tablero Dilatado	Temperature	32.41
21T0-1I	Temperatura Tablero Contraído	Temperature	-32.65
22T0-1I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
22T0-1I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
22T0-1I	Temperatura Tablero Dilatado	Temperature	32.41
22T0-1I	Temperatura Tablero Contraído	Temperature	-32.65
23T0-1I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
23T0-1I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
23T0-1I	Temperatura Tablero Dilatado	Temperature	32.41
23T0-1I	Temperatura Tablero Contraído	Temperature	-32.65
24T0-1I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
24T0-1I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
24T0-1I	Temperatura Tablero Dilatado	Temperature	32.41
24T0-1I	Temperatura Tablero Contraído	Temperature	-32.65
L1I-2I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L1I-2I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L1I-2I	Temperatura Tablero Dilatado	Temperature	32.41
L1I-2I	Temperatura Tablero Contraído	Temperature	-32.65
L2I-3I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L2I-3I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L2I-3I	Temperatura Tablero Dilatado	Temperature	32.41
L2I-3I	Temperatura Tablero Contraído	Temperature	-32.65
L3I-4I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L3I-4I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L3I-4I	Temperatura Tablero Dilatado	Temperature	32.41





L3I-4I	Temperatura Tablero Contraído	Temperature	-32.65
L4I-5I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L4I-5I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L4I-5I	Temperatura Tablero Dilatado	Temperature	32.41
L4I-5I	Temperatura Tablero Contraído	Temperature	-32.65
L5I-6I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L5I-6I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L5I-6I	Temperatura Tablero Dilatado	Temperature	32.41
L5I-6I	Temperatura Tablero Contraído	Temperature	-32.65
L6I-7I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L6I-7I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L6I-7I	Temperatura Tablero Dilatado	Temperature	32.41
L6I-7I	Temperatura Tablero Contraído	Temperature	-32.65
L7I-8I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L7I-8I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L7I-8I	Temperatura Tablero Dilatado	Temperature	32.41
L7I-8I	Temperatura Tablero Contraído	Temperature	-32.65
L8I-9I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L8I-9I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L8I-9I	Temperatura Tablero Dilatado	Temperature	32.41
L8I-9I	Temperatura Tablero Contraído	Temperature	-32.65
L9I-10I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L9I-10I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L9I-10I	Temperatura Tablero Dilatado	Temperature	32.41
L9I-10I	Temperatura Tablero Contraído	Temperature	-32.65
L10I-11I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L10I-11I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L10I-11I	Temperatura Tablero Dilatado	Temperature	32.41
L10I-11I	Temperatura Tablero Contraído	Temperature	-32.65
L11I-12I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L11I-12I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L11I-12I	Temperatura Tablero Dilatado	Temperature	32.41

L11I-12I	Temperatura Tablero Contraído	Temperature	-32.65
L12I-13I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L12I-13I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L12I-13I	Temperatura Tablero Dilatado	Temperature	32.41
L12I-13I	Temperatura Tablero Contraído	Temperature	-32.65
L13I-14I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L13I-14I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L13I-14I	Temperatura Tablero Dilatado	Temperature	32.41
L13I-14I	Temperatura Tablero Contraído	Temperature	-32.65
L14I-15I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L14I-15I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L14I-15I	Temperatura Tablero Dilatado	Temperature	32.41
L14I-15I	Temperatura Tablero Contraído	Temperature	-32.65
L15I-16I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L15I-16I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L15I-16I	Temperatura Tablero Dilatado	Temperature	32.41
L15I-16I	Temperatura Tablero Contraído	Temperature	-32.65
L16I-17I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L16I-17I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L16I-17I	Temperatura Tablero Dilatado	Temperature	32.41
L16I-17I	Temperatura Tablero Contraído	Temperature	-32.65
L17I-18I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L17I-18I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L17I-18I	Temperatura Tablero Dilatado	Temperature	32.41
L17I-18I	Temperatura Tablero Contraído	Temperature	-32.65
L18I-19I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L18I-19I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L18I-19I	Temperatura Tablero Dilatado	Temperature	32.41
L18I-19I	Temperatura Tablero Contraído	Temperature	-32.65
L19I-20I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L19I-20I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L19I-20I	Temperatura Tablero Dilatado	Temperature	32.41



L19I-20I	Temperatura Tablero Contraído	Temperature	-32.65
L20I-21I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L20I-21I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L20I-21I	Temperatura Tablero Dilatado	Temperature	32.41
L20I-21I	Temperatura Tablero Contraído	Temperature	-32.65
L21I-22I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L21I-22I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L21I-22I	Temperatura Tablero Dilatado	Temperature	32.41
L21I-22I	Temperatura Tablero Contraído	Temperature	-32.65
L22I-23I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L22I-23I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L22I-23I	Temperatura Tablero Dilatado	Temperature	32.41
L22I-23I	Temperatura Tablero Contraído	Temperature	-32.65
L23I-24I	Temperatura Gradiente de Calentamiento	Gradient2	-18.95
L23I-24I	Temperatura Gradiente de Enfriamiento	Gradient2	10.53
L23I-24I	Temperatura Tablero Dilatado	Temperature	32.41
L23I-24I	Temperatura Tablero Contraído	Temperature	-32.65
D3-4D	Temperatura Gradiente de Calentamiento	Gradient3	-18.95
D3-4D	Temperatura Tablero Dilatado	Temperature	32.41
D3-4D	Temperatura Tablero Contraído	Temperature	-32.65
D2-3D	Temperatura Gradiente de Calentamiento	Gradient3	-18.95
D2-3D	Temperatura Tablero Dilatado	Temperature	32.41
D2-3D	Temperatura Tablero Contraído	Temperature	-32.65
D1-2D	Temperatura Gradiente de Calentamiento	Gradient3	-18.95
D1-2D	Temperatura Tablero Dilatado	Temperature	32.41
D1-2D	Temperatura Tablero Contraído	Temperature	-32.65
D1.0-1D	Temperatura Gradiente de Calentamiento	Gradient3	-18.95
D1.0-1D	Temperatura Tablero Dilatado	Temperature	32.41
D1.0-1D	Temperatura Tablero Contraído	Temperature	-32.65
D3-4I	Temperatura Gradiente de Calentamiento	Gradient3	-18.95
D3-4I	Temperatura Tablero Dilatado	Temperature	32.41

D3-4I	Temperatura Tablero Contraído	Temperature	-32.65
D2-3I	Temperatura Gradiente de Calentamiento	Gradient3	-18.95
D2-3I	Temperatura Tablero Dilatado	Temperature	32.41
D2-3I	Temperatura Tablero Contraído	Temperature	-32.65
D1-2I	Temperatura Gradiente de Calentamiento	Gradient3	-18.95
D1-2I	Temperatura Tablero Dilatado	Temperature	32.41
D1-2I	Temperatura Tablero Contraído	Temperature	-32.65
D1.0-1I	Temperatura Gradiente de Calentamiento	Gradient3	-18.95
D1.0-1I	Temperatura Tablero Dilatado	Temperature	32.41
D1.0-1I	Temperatura Tablero Contraído	Temperature	-32.65
A1-2	Temperatura Arco -15 Contrayendo	Temperature	-47.65
A1-2	Temperatura Arco +15 Dilatando	Temperature	47.41
A2-3	Temperatura Arco -15 Contrayendo	Temperature	-47.65
A2-3	Temperatura Arco +15 Dilatando	Temperature	47.41
A3-4	Temperatura Arco -15 Contrayendo	Temperature	-47.65
A3-4	Temperatura Arco +15 Dilatando	Temperature	47.41
A4-5	Temperatura Arco -15 Contrayendo	Temperature	-47.65
A4-5	Temperatura Arco +15 Dilatando	Temperature	47.41
A5-6	Temperatura Arco -15 Contrayendo	Temperature	-47.65
A5-6	Temperatura Arco +15 Dilatando	Temperature	47.41
A6-7	Temperatura Arco -15 Contrayendo	Temperature	-47.65
A6-7	Temperatura Arco +15 Dilatando	Temperature	47.41
A7-8	Temperatura Arco -15 Contrayendo	Temperature	-47.65
A7-8	Temperatura Arco +15 Dilatando	Temperature	47.41
A8-9	Temperatura Arco -15 Contrayendo	Temperature	-47.65
A8-9	Temperatura Arco +15 Dilatando	Temperature	47.41
A9-10	Temperatura Arco -15 Contrayendo	Temperature	-47.65
A9-10	Temperatura Arco +15 Dilatando	Temperature	47.41
A10-11	Temperatura Arco -15 Contrayendo	Temperature	-47.65
A10-11	Temperatura Arco +15 Dilatando	Temperature	47.41
A11-12	Temperatura Arco -15 Contrayendo	Temperature	-47.65
A11-12	Temperatura Arco +15 Dilatando	Temperature	47.41
A12-13	Temperatura Arco -15 Contrayendo	Temperature	-47.65
A12-13	Temperatura Arco +15 Dilatando	Temperature	47.41
A13-14	Temperatura Arco -15 Contrayendo	Temperature	-47.65
A13-14	Temperatura Arco +15 Dilatando	Temperature	47.41



<b>A14-15</b>	Temperatura Arco -15 Contrayendo	Temperature	-47.65
<b>A14-15</b>	Temperatura Arco +15 Dilatando	Temperature	47.41
<b>A15-16</b>	Temperatura Arco -15 Contrayendo	Temperature	-47.65
<b>A15-16</b>	Temperatura Arco +15 Dilatando	Temperature	47.41
<b>A16-17</b>	Temperatura Arco -15 Contrayendo	Temperature	-47.65
<b>A16-17</b>	Temperatura Arco +15 Dilatando	Temperature	47.41
<b>A17-18D</b>	Temperatura Arco -15 Contrayendo	Temperature	-47.65
<b>A17-18D</b>	Temperatura Arco +15 Dilatando	Temperature	47.41
<b>A18-19D</b>	Temperatura Arco -15 Contrayendo	Temperature	-47.65
<b>A18-19D</b>	Temperatura Arco +15 Dilatando	Temperature	47.41
<b>A19-20D</b>	Temperatura Arco -15 Contrayendo	Temperature	-47.65
<b>A19-20D</b>	Temperatura Arco +15 Dilatando	Temperature	47.41
<b>A20-21D</b>	Temperatura Arco -15 Contrayendo	Temperature	-47.65
<b>A20-21D</b>	Temperatura Arco +15 Dilatando	Temperature	47.41
<b>A21-22D</b>	Temperatura Arco -15 Contrayendo	Temperature	-47.65
<b>A21-22D</b>	Temperatura Arco +15 Dilatando	Temperature	47.41
<b>A22-23D</b>	Temperatura Arco -15 Contrayendo	Temperature	-47.65
<b>A22-23D</b>	Temperatura Arco +15 Dilatando	Temperature	47.41
<b>A23-24D</b>	Temperatura Arco -15 Contrayendo	Temperature	-47.65
<b>A23-24D</b>	Temperatura Arco +15 Dilatando	Temperature	47.41
<b>A24-25D</b>	Temperatura Arco -15 Contrayendo	Temperature	-47.65
<b>A24-25D</b>	Temperatura Arco +15 Dilatando	Temperature	47.41
<b>A25-26D</b>	Temperatura Arco -15 Contrayendo	Temperature	-47.65
<b>A25-26D</b>	Temperatura Arco +15 Dilatando	Temperature	47.41
<b>A26-27D</b>	Temperatura Arco -15 Contrayendo	Temperature	-47.65
<b>A26-27D</b>	Temperatura Arco +15 Dilatando	Temperature	47.41
<b>A17-18I</b>	Temperatura Arco -15 Contrayendo	Temperature	-47.65
<b>A17-18I</b>	Temperatura Arco +15 Dilatando	Temperature	47.41
<b>A18-19I</b>	Temperatura Arco -15 Contrayendo	Temperature	-47.65
<b>A18-19I</b>	Temperatura Arco +15 Dilatando	Temperature	47.41
<b>A19-20I</b>	Temperatura Arco -15 Contrayendo	Temperature	-47.65
<b>A19-20I</b>	Temperatura Arco +15 Dilatando	Temperature	47.41
<b>A20-21I</b>	Temperatura Arco -15 Contrayendo	Temperature	-47.65
<b>A20-21I</b>	Temperatura Arco +15 Dilatando	Temperature	47.41
<b>A21-22I</b>	Temperatura Arco -15 Contrayendo	Temperature	-47.65
<b>A21-22I</b>	Temperatura Arco +15 Dilatando	Temperature	47.41
<b>A22-23I</b>	Temperatura Arco -15 Contrayendo	Temperature	-47.65
<b>A22-23I</b>	Temperatura Arco +15 Dilatando	Temperature	47.41

<b>A23-24I</b>	Temperatura Arco -15 Contrayendo	Temperature	-47.65
<b>A23-24I</b>	Temperatura Arco +15 Dilatando	Temperature	47.41
<b>A24-25I</b>	Temperatura Arco -15 Contrayendo	Temperature	-47.65
<b>A24-25I</b>	Temperatura Arco +15 Dilatando	Temperature	47.41
<b>A25-26I</b>	Temperatura Arco -15 Contrayendo	Temperature	-47.65
<b>A25-26I</b>	Temperatura Arco +15 Dilatando	Temperature	47.41
<b>A27-26I</b>	Temperatura Arco -15 Contrayendo	Temperature	-47.65
<b>A27-26I</b>	Temperatura Arco +15 Dilatando	Temperature	47.41
<b>T1I</b>	Temperatura Tirante -10 Contrayendo	Temperature	-42.65
<b>T1I</b>	Temperatura Tirante +20 Contrayendo	Temperature	-12.65
<b>T1I</b>	Temperatura Tirante +20 Dilatando	Temperature	47.41
<b>T1I</b>	Temperatura Tirante -10 Dilatando	Temperature	22.41
<b>T2I</b>	Temperatura Tirante -10 Contrayendo	Temperature	-42.65
<b>T2I</b>	Temperatura Tirante +20 Contrayendo	Temperature	-12.65
<b>T2I</b>	Temperatura Tirante +20 Dilatando	Temperature	47.41
<b>T2I</b>	Temperatura Tirante -10 Dilatando	Temperature	22.41
<b>T3I</b>	Temperatura Tirante -10 Contrayendo	Temperature	-42.65
<b>T3I</b>	Temperatura Tirante +20 Contrayendo	Temperature	-12.65
<b>T3I</b>	Temperatura Tirante +20 Dilatando	Temperature	47.41
<b>T3I</b>	Temperatura Tirante -10 Dilatando	Temperature	22.41
<b>T4I</b>	Temperatura Tirante -10 Contrayendo	Temperature	-42.65
<b>T4I</b>	Temperatura Tirante +20 Contrayendo	Temperature	-12.65
<b>T4I</b>	Temperatura Tirante +20 Dilatando	Temperature	47.41
<b>T4I</b>	Temperatura Tirante -10 Dilatando	Temperature	22.41
<b>T5I</b>	Temperatura Tirante -10 Contrayendo	Temperature	-42.65
<b>T5I</b>	Temperatura Tirante +20 Contrayendo	Temperature	-12.65
<b>T5I</b>	Temperatura Tirante +20 Dilatando	Temperature	47.41
<b>T5I</b>	Temperatura Tirante -10 Dilatando	Temperature	22.41
<b>T6I</b>	Temperatura Tirante -10 Contrayendo	Temperature	-42.65
<b>T6I</b>	Temperatura Tirante +20 Contrayendo	Temperature	-12.65
<b>T6I</b>	Temperatura Tirante +20 Dilatando	Temperature	47.41
<b>T6I</b>	Temperatura Tirante -10 Dilatando	Temperature	22.41
<b>T1D</b>	Temperatura Tirante -10 Contrayendo	Temperature	-42.65
<b>T1D</b>	Temperatura Tirante +20 Contrayendo	Temperature	-12.65
<b>T1D</b>	Temperatura Tirante +20 Dilatando	Temperature	47.41
<b>T1D</b>	Temperatura Tirante -10 Dilatando	Temperature	22.41
<b>T2D</b>	Temperatura Tirante -10 Contrayendo	Temperature	-42.65
<b>T2D</b>	Temperatura Tirante +20 Contrayendo	Temperature	-12.65



<b>T2D</b>	Temperatura Tirante +20 Dilatando	Temperature	47.41
<b>T2D</b>	Temperatura Tirante -10 Dilatando	Temperature	22.41
<b>T3D</b>	Temperatura Tirante -10 Contrayendo	Temperature	-42.65
<b>T3D</b>	Temperatura Tirante +20 Contrayendo	Temperature	-12.65
<b>T3D</b>	Temperatura Tirante +20 Dilatando	Temperature	47.41
<b>T3D</b>	Temperatura Tirante -10 Dilatando	Temperature	22.41
<b>T3D</b>	Tesado de Tirantes 3	Temperature	-100
<b>T4D</b>	Temperatura Tirante -10 Contrayendo	Temperature	-42.65
<b>T4D</b>	Temperatura Tirante +20 Contrayendo	Temperature	-12.65
<b>T4D</b>	Temperatura Tirante +20 Dilatando	Temperature	47.41

## I.12 Acciones térmicas en losa de hormigón

TABLE: Area Loads - Temperature					
Area	LoadPat	Type	Temp	TempGrad3	JtPattern
Text	Text	Text	C	C/m	Text
<b>S1.6D</b>	Temperatura Gradiente de Calentamiento	Gradient		-18.95	None
<b>S1.6D</b>	Temperatura Gradiente de Enfriamiento	Gradient		10.53	None
<b>S1.6D</b>	Temperatura Tablero Dilatado	Temperature	32.41		None
<b>S1.6D</b>	Temperatura Tablero Contraído	Temperature	-32.65		None
<b>S1.5D</b>	Temperatura Gradiente de Calentamiento	Gradient		-18.95	None
<b>S1.5D</b>	Temperatura Gradiente de Enfriamiento	Gradient		10.53	None
<b>S1.5D</b>	Temperatura Tablero Dilatado	Temperature	32.41		None
<b>S1.5D</b>	Temperatura Tablero Contraído	Temperature	-32.65		None
<b>S1.4D</b>	Temperatura Gradiente de Calentamiento	Gradient		-18.95	None
<b>S1.4D</b>	Temperatura Gradiente de Enfriamiento	Gradient		10.53	None
<b>S1.4D</b>	Temperatura Tablero Dilatado	Temperature	32.41		None
<b>S1.4D</b>	Temperatura Tablero Contraído	Temperature	-32.65		None
<b>S1.3D</b>	Temperatura Gradiente de Calentamiento	Gradient		-18.95	None
<b>S1.3D</b>	Temperatura Gradiente de Enfriamiento	Gradient		10.53	None
<b>S1.3D</b>	Temperatura Tablero Dilatado	Temperature	32.41		None
<b>S1.3D</b>	Temperatura Tablero Contraído	Temperature	-32.65		None
<b>S1.2D</b>	Temperatura Gradiente de Calentamiento	Gradient		-18.95	None
<b>S1.2D</b>	Temperatura Gradiente de Enfriamiento	Gradient		10.53	None
<b>S1.2D</b>	Temperatura Tablero Dilatado	Temperature	32.41		None
<b>S1.2D</b>	Temperatura Tablero Contraído	Temperature	-32.65		None
<b>S1.1D</b>	Temperatura Gradiente de Calentamiento	Gradient		-18.95	None
<b>S1.1D</b>	Temperatura Gradiente de Enfriamiento	Gradient		10.53	None

T4D	Temperatura Tirante -10 Dilatando	Temperature	22.41	
T4D	Tesado de Tirantes 4	Temperature	-100	
T5D	Temperatura Tirante -10 Contrayendo	Temperature	-42.65	
T5D	Temperatura Tirante +20 Contrayendo	Temperature	-12.65	
T5D	Temperatura Tirante +20 Dilatando	Temperature	47.41	
T5D	Temperatura Tirante -10 Dilatando	Temperature	22.41	
T6D	Temperatura Tirante -10 Contrayendo	Temperature	-42.65	
T6D	Temperatura Tirante +20 Contrayendo	Temperature	-12.65	
T6D	Temperatura Tirante +20 Dilatando	Temperature	47.41	
T6D	Temperatura Tirante -10 Dilatando	Temperature	22.41	
S1.1D	Temperatura Tablero Dilatado	Temperature	32.41	None
S1.1D	Temperatura Tablero Contraído	Temperature	-32.65	None
S2.6D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S2.6D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S2.6D	Temperatura Tablero Dilatado	Temperature	32.41	None
S2.6D	Temperatura Tablero Contraído	Temperature	-32.65	None
S2.5D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S2.5D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S2.5D	Temperatura Tablero Dilatado	Temperature	32.41	None
S2.5D	Temperatura Tablero Contraído	Temperature	-32.65	None
S2.4D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S2.4D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S2.4D	Temperatura Tablero Dilatado	Temperature	32.41	None
S2.4D	Temperatura Tablero Contraído	Temperature	-32.65	None
S2.3D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S2.3D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S2.3D	Temperatura Tablero Dilatado	Temperature	32.41	None
S2.3D	Temperatura Tablero Contraído	Temperature	-32.65	None
S2.2D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S2.2D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S2.2D	Temperatura Tablero Dilatado	Temperature	32.41	None
S2.2D	Temperatura Tablero Contraído	Temperature	-32.65	None
S2.1D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S2.1D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S2.1D	Temperatura Tablero Dilatado	Temperature	32.41	None
S2.1D	Temperatura Tablero Contraído	Temperature	-32.65	None
S3.6D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S3.6D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None





S3.6D	Temperatura Tablero Dilatado	Temperature	32.41	None
S3.6D	Temperatura Tablero Contraído	Temperature	-32.65	None
S3.5D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S3.5D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S3.5D	Temperatura Tablero Dilatado	Temperature	32.41	None
S3.5D	Temperatura Tablero Contraído	Temperature	-32.65	None
S3.4D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S3.4D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S3.4D	Temperatura Tablero Dilatado	Temperature	32.41	None
S3.4D	Temperatura Tablero Contraído	Temperature	-32.65	None
S3.3D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S3.3D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S3.3D	Temperatura Tablero Dilatado	Temperature	32.41	None
S3.3D	Temperatura Tablero Contraído	Temperature	-32.65	None
S3.2D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S3.2D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S3.2D	Temperatura Tablero Dilatado	Temperature	32.41	None
S3.2D	Temperatura Tablero Contraído	Temperature	-32.65	None
S3.1D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S3.1D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S3.1D	Temperatura Tablero Dilatado	Temperature	32.41	None
S3.1D	Temperatura Tablero Contraído	Temperature	-32.65	None
S4.6D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S4.6D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S4.6D	Temperatura Tablero Dilatado	Temperature	32.41	None
S4.6D	Temperatura Tablero Contraído	Temperature	-32.65	None
S4.5D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S4.5D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S4.5D	Temperatura Tablero Dilatado	Temperature	32.41	None
S4.5D	Temperatura Tablero Contraído	Temperature	-32.65	None
S4.4D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S4.4D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S4.4D	Temperatura Tablero Dilatado	Temperature	32.41	None
S4.4D	Temperatura Tablero Contraído	Temperature	-32.65	None
S4.3D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S4.3D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S4.3D	Temperatura Tablero Dilatado	Temperature	32.41	None
S4.3D	Temperatura Tablero Contraído	Temperature	-32.65	None

S4.2D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S4.2D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S4.2D	Temperatura Tablero Dilatado	Temperature	32.41	None
S4.2D	Temperatura Tablero Contraído	Temperature	-32.65	None
S4.1D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S4.1D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S4.1D	Temperatura Tablero Dilatado	Temperature	32.41	None
S4.1D	Temperatura Tablero Contraído	Temperature	-32.65	None
S5.6D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S5.6D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S5.6D	Temperatura Tablero Dilatado	Temperature	32.41	None
S5.6D	Temperatura Tablero Contraído	Temperature	-32.65	None
S5.5D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S5.5D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S5.5D	Temperatura Tablero Dilatado	Temperature	32.41	None
S5.5D	Temperatura Tablero Contraído	Temperature	-32.65	None
S5.4D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S5.4D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S5.4D	Temperatura Tablero Dilatado	Temperature	32.41	None
S5.4D	Temperatura Tablero Contraído	Temperature	-32.65	None
S5.3D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S5.3D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S5.3D	Temperatura Tablero Dilatado	Temperature	32.41	None
S5.3D	Temperatura Tablero Contraído	Temperature	-32.65	None
S5.2D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S5.2D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S5.2D	Temperatura Tablero Dilatado	Temperature	32.41	None
S5.2D	Temperatura Tablero Contraído	Temperature	-32.65	None
S5.1D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S5.1D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S5.1D	Temperatura Tablero Dilatado	Temperature	32.41	None
S5.1D	Temperatura Tablero Contraído	Temperature	-32.65	None
S6.6D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S6.6D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S6.6D	Temperatura Tablero Dilatado	Temperature	32.41	None
S6.6D	Temperatura Tablero Contraído	Temperature	-32.65	None
S6.5D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S6.5D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None





S6.5D	Temperatura Tablero Dilatado	Temperature	32.41	None
S6.5D	Temperatura Tablero Contraído	Temperature	-32.65	None
S6.4D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S6.4D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S6.4D	Temperatura Tablero Dilatado	Temperature	32.41	None
S6.4D	Temperatura Tablero Contraído	Temperature	-32.65	None
S6.3D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S6.3D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S6.3D	Temperatura Tablero Dilatado	Temperature	32.41	None
S6.3D	Temperatura Tablero Contraído	Temperature	-32.65	None
S6.2D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S6.2D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S6.2D	Temperatura Tablero Dilatado	Temperature	32.41	None
S6.2D	Temperatura Tablero Contraído	Temperature	-32.65	None
S6.1D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S6.1D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S6.1D	Temperatura Tablero Dilatado	Temperature	32.41	None
S6.1D	Temperatura Tablero Contraído	Temperature	-32.65	None
S7.6D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S7.6D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S7.6D	Temperatura Tablero Dilatado	Temperature	32.41	None
S7.6D	Temperatura Tablero Contraído	Temperature	-32.65	None
S7.5D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S7.5D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S7.5D	Temperatura Tablero Dilatado	Temperature	32.41	None
S7.5D	Temperatura Tablero Contraído	Temperature	-32.65	None
S7.4D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S7.4D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S7.4D	Temperatura Tablero Dilatado	Temperature	32.41	None
S7.4D	Temperatura Tablero Contraído	Temperature	-32.65	None
S7.3D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S7.3D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S7.3D	Temperatura Tablero Dilatado	Temperature	32.41	None
S7.3D	Temperatura Tablero Contraído	Temperature	-32.65	None
S7.2D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S7.2D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S7.2D	Temperatura Tablero Dilatado	Temperature	32.41	None
S7.2D	Temperatura Tablero Contraído	Temperature	-32.65	None

S7.1D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S7.1D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S7.1D	Temperatura Tablero Dilatado	Temperature	32.41	None
S7.1D	Temperatura Tablero Contraído	Temperature	-32.65	None
S8.6D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S8.6D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S8.6D	Temperatura Tablero Dilatado	Temperature	32.41	None
S8.6D	Temperatura Tablero Contraído	Temperature	-32.65	None
S8.5D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S8.5D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S8.5D	Temperatura Tablero Dilatado	Temperature	32.41	None
S8.5D	Temperatura Tablero Contraído	Temperature	-32.65	None
S8.4D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S8.4D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S8.4D	Temperatura Tablero Dilatado	Temperature	32.41	None
S8.4D	Temperatura Tablero Contraído	Temperature	-32.65	None
S8.3D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S8.3D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S8.3D	Temperatura Tablero Dilatado	Temperature	32.41	None
S8.3D	Temperatura Tablero Contraído	Temperature	-32.65	None
S8.2D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S8.2D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S8.2D	Temperatura Tablero Dilatado	Temperature	32.41	None
S8.2D	Temperatura Tablero Contraído	Temperature	-32.65	None
S8.1D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S8.1D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S8.1D	Temperatura Tablero Dilatado	Temperature	32.41	None
S8.1D	Temperatura Tablero Contraído	Temperature	-32.65	None
S9.6D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S9.6D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S9.6D	Temperatura Tablero Dilatado	Temperature	32.41	None
S9.6D	Temperatura Tablero Contraído	Temperature	-32.65	None
S9.5D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S9.5D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S9.5D	Temperatura Tablero Dilatado	Temperature	32.41	None
S9.5D	Temperatura Tablero Contraído	Temperature	-32.65	None
S9.4D	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S9.4D	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None



<b>S9.4D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S9.4D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S9.3D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S9.3D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S9.3D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S9.3D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S9.2D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S9.2D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S9.2D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S9.2D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S9.1D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S9.1D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S9.1D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S9.1D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S10.6D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S10.6D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S10.6D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S10.6D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S10.5D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S10.5D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S10.5D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S10.5D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S10.4D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S10.4D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S10.4D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S10.4D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S10.3D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S10.3D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S10.3D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S10.3D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S10.2D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S10.2D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S10.2D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S10.2D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S10.1D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S10.1D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S10.1D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S10.1D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None

<b>S11.6D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S11.6D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S11.6D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S11.6D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S11.5D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S11.5D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S11.5D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S11.5D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S11.4D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S11.4D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S11.4D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S11.4D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S11.3D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S11.3D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S11.3D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S11.3D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S11.2D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S11.2D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S11.2D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S11.2D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S11.1D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S11.1D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S11.1D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S11.1D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S12.6D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S12.6D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S12.6D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S12.6D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S12.5D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S12.5D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S12.5D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S12.5D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S12.4D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S12.4D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S12.4D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S12.4D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S12.3D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S12.3D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None





<b>S15.2D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S15.2D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S15.1D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S15.1D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S15.1D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S15.1D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S16.6D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S16.6D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S16.6D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S16.6D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S16.5D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S16.5D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S16.5D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S16.5D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S16.4D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S16.4D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S16.4D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S16.4D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S16.3D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S16.3D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S16.3D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S16.3D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>D16.2D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>D16.2D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>D16.2D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>D16.2D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S16.1D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S16.1D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S16.1D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S16.1D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>D17.6D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>D17.6D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>D17.6D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>D17.6D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>D17.5D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>D17.5D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>D17.5D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>D17.5D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None

<b>D17.4D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>D17.4D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>D17.4D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>D17.4D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>D17.3D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>D17.3D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>D17.3D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>D17.3D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>D17.2D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>D17.2D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>D17.2D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>D17.2D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S17.1D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S17.1D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S17.1D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S17.1D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S22.6D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S22.6D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S22.6D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S22.6D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S22.5D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S22.5D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S22.5D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S22.5D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S22.4D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S22.4D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S22.4D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S22.4D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S22.3D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S22.3D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S22.3D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S22.3D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S22.2D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S22.2D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S22.2D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S22.2D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S22.1D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S22.1D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None









<b>S18.6D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S18.6D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S18.5D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S18.5D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S18.5D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S18.5D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>D18.4D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>D18.4D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>D18.4D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>D18.4D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>D18.3D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>D18.3D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>D18.3D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>D18.3D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S18.2D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S18.2D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S18.2D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S18.2D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S18.1D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S18.1D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S18.1D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S18.1D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S23.1D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S23.1D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S23.1D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S23.1D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S23.2D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S23.2D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S23.2D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S23.2D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S23.3D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S23.3D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S23.3D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S23.3D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S23.4D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S23.4D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S23.4D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S23.4D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None

<b>S23.5D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S23.5D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S23.5D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S23.5D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S23.6D</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S23.6D</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S23.6D</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S23.6D</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S1.6I</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S1.6I</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S1.6I</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S1.6I</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S1.5I</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S1.5I</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S1.5I</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S1.5I</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S1.4I</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S1.4I</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S1.4I</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S1.4I</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S1.3I</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S1.3I</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S1.3I</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S1.3I</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S1.2I</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S1.2I</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S1.2I</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S1.2I</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S1.1I</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S1.1I</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S1.1I</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S1.1I</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S2.6I</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S2.6I</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S2.6I</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S2.6I</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S2.5I</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S2.5I</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None



S2.5I	Temperatura Tablero Dilatado	Temperature	32.41	None
S2.5I	Temperatura Tablero Contraído	Temperature	-32.65	None
S2.4I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S2.4I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S2.4I	Temperatura Tablero Dilatado	Temperature	32.41	None
S2.4I	Temperatura Tablero Contraído	Temperature	-32.65	None
S2.3I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S2.3I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S2.3I	Temperatura Tablero Dilatado	Temperature	32.41	None
S2.3I	Temperatura Tablero Contraído	Temperature	-32.65	None
S2.2I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S2.2I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S2.2I	Temperatura Tablero Dilatado	Temperature	32.41	None
S2.2I	Temperatura Tablero Contraído	Temperature	-32.65	None
S2.1I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S2.1I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S2.1I	Temperatura Tablero Dilatado	Temperature	32.41	None
S2.1I	Temperatura Tablero Contraído	Temperature	-32.65	None
S3.6I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S3.6I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S3.6I	Temperatura Tablero Dilatado	Temperature	32.41	None
S3.6I	Temperatura Tablero Contraído	Temperature	-32.65	None
S3.5I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S3.5I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S3.5I	Temperatura Tablero Dilatado	Temperature	32.41	None
S3.5I	Temperatura Tablero Contraído	Temperature	-32.65	None
S3.4I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S3.4I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S3.4I	Temperatura Tablero Dilatado	Temperature	32.41	None
S3.4I	Temperatura Tablero Contraído	Temperature	-32.65	None
S3.3I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S3.3I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S3.3I	Temperatura Tablero Dilatado	Temperature	32.41	None
S3.3I	Temperatura Tablero Contraído	Temperature	-32.65	None
S3.2I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S3.2I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S3.2I	Temperatura Tablero Dilatado	Temperature	32.41	None
S3.2I	Temperatura Tablero Contraído	Temperature	-32.65	None

S3.1I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S3.1I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S3.1I	Temperatura Tablero Dilatado	Temperature	32.41	None
S3.1I	Temperatura Tablero Contraído	Temperature	-32.65	None
S4.6I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S4.6I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S4.6I	Temperatura Tablero Dilatado	Temperature	32.41	None
S4.6I	Temperatura Tablero Contraído	Temperature	-32.65	None
S4.5I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S4.5I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S4.5I	Temperatura Tablero Dilatado	Temperature	32.41	None
S4.5I	Temperatura Tablero Contraído	Temperature	-32.65	None
S4.4I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S4.4I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S4.4I	Temperatura Tablero Dilatado	Temperature	32.41	None
S4.4I	Temperatura Tablero Contraído	Temperature	-32.65	None
S4.3I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S4.3I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S4.3I	Temperatura Tablero Dilatado	Temperature	32.41	None
S4.3I	Temperatura Tablero Contraído	Temperature	-32.65	None
S4.2I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S4.2I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S4.2I	Temperatura Tablero Dilatado	Temperature	32.41	None
S4.2I	Temperatura Tablero Contraído	Temperature	-32.65	None
S4.1I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S4.1I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S4.1I	Temperatura Tablero Dilatado	Temperature	32.41	None
S4.1I	Temperatura Tablero Contraído	Temperature	-32.65	None
S5.6I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S5.6I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S5.6I	Temperatura Tablero Dilatado	Temperature	32.41	None
S5.6I	Temperatura Tablero Contraído	Temperature	-32.65	None
S5.5I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S5.5I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S5.5I	Temperatura Tablero Dilatado	Temperature	32.41	None
S5.5I	Temperatura Tablero Contraído	Temperature	-32.65	None
S5.4I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S5.4I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None



S5.4I	Temperatura Tablero Dilatado	Temperature	32.41	None
S5.4I	Temperatura Tablero Contraído	Temperature	-32.65	None
S5.3I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S5.3I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S5.3I	Temperatura Tablero Dilatado	Temperature	32.41	None
S5.3I	Temperatura Tablero Contraído	Temperature	-32.65	None
S5.2I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S5.2I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S5.2I	Temperatura Tablero Dilatado	Temperature	32.41	None
S5.2I	Temperatura Tablero Contraído	Temperature	-32.65	None
S5.1I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S5.1I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S5.1I	Temperatura Tablero Dilatado	Temperature	32.41	None
S5.1I	Temperatura Tablero Contraído	Temperature	-32.65	None
S6.6I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S6.6I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S6.6I	Temperatura Tablero Dilatado	Temperature	32.41	None
S6.6I	Temperatura Tablero Contraído	Temperature	-32.65	None
S6.5I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S6.5I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S6.5I	Temperatura Tablero Dilatado	Temperature	32.41	None
S6.5I	Temperatura Tablero Contraído	Temperature	-32.65	None
S6.4I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S6.4I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S6.4I	Temperatura Tablero Dilatado	Temperature	32.41	None
S6.4I	Temperatura Tablero Contraído	Temperature	-32.65	None
S6.3I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S6.3I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S6.3I	Temperatura Tablero Dilatado	Temperature	32.41	None
S6.3I	Temperatura Tablero Contraído	Temperature	-32.65	None
S6.2I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S6.2I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S6.2I	Temperatura Tablero Dilatado	Temperature	32.41	None
S6.2I	Temperatura Tablero Contraído	Temperature	-32.65	None
S6.1I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S6.1I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S6.1I	Temperatura Tablero Dilatado	Temperature	32.41	None
S6.1I	Temperatura Tablero Contraído	Temperature	-32.65	None

S7.6I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S7.6I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S7.6I	Temperatura Tablero Dilatado	Temperature	32.41	None
S7.6I	Temperatura Tablero Contraído	Temperature	-32.65	None
S7.5I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S7.5I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S7.5I	Temperatura Tablero Dilatado	Temperature	32.41	None
S7.5I	Temperatura Tablero Contraído	Temperature	-32.65	None
S7.4I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S7.4I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S7.4I	Temperatura Tablero Dilatado	Temperature	32.41	None
S7.4I	Temperatura Tablero Contraído	Temperature	-32.65	None
S7.3I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S7.3I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S7.3I	Temperatura Tablero Dilatado	Temperature	32.41	None
S7.3I	Temperatura Tablero Contraído	Temperature	-32.65	None
S7.2I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S7.2I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S7.2I	Temperatura Tablero Dilatado	Temperature	32.41	None
S7.2I	Temperatura Tablero Contraído	Temperature	-32.65	None
S7.1I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S7.1I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S7.1I	Temperatura Tablero Dilatado	Temperature	32.41	None
S7.1I	Temperatura Tablero Contraído	Temperature	-32.65	None
S8.6I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S8.6I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S8.6I	Temperatura Tablero Dilatado	Temperature	32.41	None
S8.6I	Temperatura Tablero Contraído	Temperature	-32.65	None
S8.5I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S8.5I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S8.5I	Temperatura Tablero Dilatado	Temperature	32.41	None
S8.5I	Temperatura Tablero Contraído	Temperature	-32.65	None
S8.4I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S8.4I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S8.4I	Temperatura Tablero Dilatado	Temperature	32.41	None
S8.4I	Temperatura Tablero Contraído	Temperature	-32.65	None
S8.3I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S8.3I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None



S8.3I	Temperatura Tablero Dilatado	Temperature	32.41	None
S8.3I	Temperatura Tablero Contraído	Temperature	-32.65	None
S8.2I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S8.2I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S8.2I	Temperatura Tablero Dilatado	Temperature	32.41	None
S8.2I	Temperatura Tablero Contraído	Temperature	-32.65	None
S8.1I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S8.1I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S8.1I	Temperatura Tablero Dilatado	Temperature	32.41	None
S8.1I	Temperatura Tablero Contraído	Temperature	-32.65	None
S9.6I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S9.6I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S9.6I	Temperatura Tablero Dilatado	Temperature	32.41	None
S9.6I	Temperatura Tablero Contraído	Temperature	-32.65	None
S9.5I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S9.5I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S9.5I	Temperatura Tablero Dilatado	Temperature	32.41	None
S9.5I	Temperatura Tablero Contraído	Temperature	-32.65	None
S9.4I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S9.4I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S9.4I	Temperatura Tablero Dilatado	Temperature	32.41	None
S9.4I	Temperatura Tablero Contraído	Temperature	-32.65	None
S9.3I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S9.3I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S9.3I	Temperatura Tablero Dilatado	Temperature	32.41	None
S9.3I	Temperatura Tablero Contraído	Temperature	-32.65	None
S9.2I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S9.2I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S9.2I	Temperatura Tablero Dilatado	Temperature	32.41	None
S9.2I	Temperatura Tablero Contraído	Temperature	-32.65	None
S9.1I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S9.1I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S9.1I	Temperatura Tablero Dilatado	Temperature	32.41	None
S9.1I	Temperatura Tablero Contraído	Temperature	-32.65	None
S10.6I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S10.6I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S10.6I	Temperatura Tablero Dilatado	Temperature	32.41	None
S10.6I	Temperatura Tablero Contraído	Temperature	-32.65	None

S10.5I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S10.5I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S10.5I	Temperatura Tablero Dilatado	Temperature	32.41	None
S10.5I	Temperatura Tablero Contraído	Temperature	-32.65	None
S10.4I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S10.4I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S10.4I	Temperatura Tablero Dilatado	Temperature	32.41	None
S10.4I	Temperatura Tablero Contraído	Temperature	-32.65	None
S10.3I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S10.3I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S10.3I	Temperatura Tablero Dilatado	Temperature	32.41	None
S10.3I	Temperatura Tablero Contraído	Temperature	-32.65	None
S10.2I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S10.2I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S10.2I	Temperatura Tablero Dilatado	Temperature	32.41	None
S10.2I	Temperatura Tablero Contraído	Temperature	-32.65	None
S10.1I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S10.1I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S10.1I	Temperatura Tablero Dilatado	Temperature	32.41	None
S10.1I	Temperatura Tablero Contraído	Temperature	-32.65	None
S11.6I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S11.6I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S11.6I	Temperatura Tablero Dilatado	Temperature	32.41	None
S11.6I	Temperatura Tablero Contraído	Temperature	-32.65	None
S11.5I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S11.5I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S11.5I	Temperatura Tablero Dilatado	Temperature	32.41	None
S11.5I	Temperatura Tablero Contraído	Temperature	-32.65	None
S11.4I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S11.4I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S11.4I	Temperatura Tablero Dilatado	Temperature	32.41	None
S11.4I	Temperatura Tablero Contraído	Temperature	-32.65	None
S11.3I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S11.3I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S11.3I	Temperatura Tablero Dilatado	Temperature	32.41	None
S11.3I	Temperatura Tablero Contraído	Temperature	-32.65	None
S11.2I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S11.2I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None





S13.4I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S13.4I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S13.4I	Temperatura Tablero Dilatado	Temperature	32.41	None
S13.4I	Temperatura Tablero Contraído	Temperature	-32.65	None
S13.3I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S13.3I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S13.3I	Temperatura Tablero Dilatado	Temperature	32.41	None
S13.3I	Temperatura Tablero Contraído	Temperature	-32.65	None
S13.2I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S13.2I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S13.2I	Temperatura Tablero Dilatado	Temperature	32.41	None
S13.2I	Temperatura Tablero Contraído	Temperature	-32.65	None
S13.1I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S13.1I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S13.1I	Temperatura Tablero Dilatado	Temperature	32.41	None
S13.1I	Temperatura Tablero Contraído	Temperature	-32.65	None
S14.6I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S14.6I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S14.6I	Temperatura Tablero Dilatado	Temperature	32.41	None
S14.6I	Temperatura Tablero Contraído	Temperature	-32.65	None
S14.5I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S14.5I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S14.5I	Temperatura Tablero Dilatado	Temperature	32.41	None
S14.5I	Temperatura Tablero Contraído	Temperature	-32.65	None
S14.4I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S14.4I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S14.4I	Temperatura Tablero Dilatado	Temperature	32.41	None
S14.4I	Temperatura Tablero Contraído	Temperature	-32.65	None
S14.3I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S14.3I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S14.3I	Temperatura Tablero Dilatado	Temperature	32.41	None
S14.3I	Temperatura Tablero Contraído	Temperature	-32.65	None
S14.2I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S14.2I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S14.2I	Temperatura Tablero Dilatado	Temperature	32.41	None
S14.2I	Temperatura Tablero Contraído	Temperature	-32.65	None
S14.1I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S14.1I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None







S21.2I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S21.2I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S21.2I	Temperatura Tablero Dilatado	Temperature	32.41	None
S21.2I	Temperatura Tablero Contraído	Temperature	-32.65	None
S21.1I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S21.1I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S21.1I	Temperatura Tablero Dilatado	Temperature	32.41	None
S21.1I	Temperatura Tablero Contraído	Temperature	-32.65	None
S20.6I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S20.6I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S20.6I	Temperatura Tablero Dilatado	Temperature	32.41	None
S20.6I	Temperatura Tablero Contraído	Temperature	-32.65	None
S20.5I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S20.5I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S20.5I	Temperatura Tablero Dilatado	Temperature	32.41	None
S20.5I	Temperatura Tablero Contraído	Temperature	-32.65	None
S20.4I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S20.4I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S20.4I	Temperatura Tablero Dilatado	Temperature	32.41	None
S20.4I	Temperatura Tablero Contraído	Temperature	-32.65	None
S20.3I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S20.3I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S20.3I	Temperatura Tablero Dilatado	Temperature	32.41	None
S20.3I	Temperatura Tablero Contraído	Temperature	-32.65	None
S20.2I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S20.2I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S20.2I	Temperatura Tablero Dilatado	Temperature	32.41	None
S20.2I	Temperatura Tablero Contraído	Temperature	-32.65	None
S20.1I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S20.1I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S20.1I	Temperatura Tablero Dilatado	Temperature	32.41	None
S20.1I	Temperatura Tablero Contraído	Temperature	-32.65	None
S19.6I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S19.6I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
S19.6I	Temperatura Tablero Dilatado	Temperature	32.41	None
S19.6I	Temperatura Tablero Contraído	Temperature	-32.65	None
S19.5I	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
S19.5I	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None



<b>S19.5I</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S19.5I</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S19.4I</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S19.4I</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S19.4I</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S19.4I</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S19.3I</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S19.3I</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S19.3I</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S19.3I</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S19.2I</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S19.2I</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S19.2I</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S19.2I</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S19.1I</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S19.1I</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S19.1I</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S19.1I</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S18.6I</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S18.6I</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S18.6I</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S18.6I</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S18.5I</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S18.5I</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S18.5I</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S18.5I</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S18.4I</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S18.4I</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S18.4I</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S18.4I</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S18.3I</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S18.3I</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S18.3I</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S18.3I</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S18.2I</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S18.2I</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S18.2I</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S18.2I</b>	Temperatura Tablero Contraído	Temperature	-32.65	None

<b>S18.1I</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S18.1I</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S18.1I</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S18.1I</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S23.1I</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S23.1I</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S23.1I</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S23.1I</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S23.2I</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S23.2I</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S23.2I</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S23.2I</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S23.3I</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S23.3I</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S23.3I</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S23.3I</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S23.4I</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S23.4I</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S23.4I</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S23.4I</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S23.5I</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S23.5I</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S23.5I</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S23.5I</b>	Temperatura Tablero Contraído	Temperature	-32.65	None
<b>S23.6I</b>	Temperatura Gradiente de Calentamiento	Gradient	-18.95	None
<b>S23.6I</b>	Temperatura Gradiente de Enfriamiento	Gradient	10.53	None
<b>S23.6I</b>	Temperatura Tablero Dilatado	Temperature	32.41	None
<b>S23.6I</b>	Temperatura Tablero Contraído	Temperature	-32.65	None

## I.13 Combinaciones de acciones

TABLE: Combination Definitions					
ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
Text	Text	Yes/No	Text	Text	Unitless
<b>ELU1</b>	Linear Add	No	Linear Static	perm	1.35
<b>ELU1</b>			Linear Static	Sobr unif trans	1.35
<b>ELU1</b>			Linear Static	veh pes trans	1.35
<b>ELU1</b>			Linear Static	Sobrecarga Uniforme Peatones	0.5



ELU1			Linear Static	viento trans	0.9
ELU2	Linear Add	No	Linear Static	perm	1.35
ELU2			Linear Static	Sobr unif trans	1.35
ELU2			Linear Static	veh pes trans	1.35
ELU2			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU2			Linear Static	vient long	0.9
ELU3	Linear Add	No	Linear Static	perm	1.35
ELU3			Linear Static	Sobr unif trans	1.35
ELU3			Linear Static	veh pes trans apo	1.35
ELU3			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU3			Linear Static	viento trans	0.9
ELU4	Linear Add	No	Linear Static	perm	1.35
ELU4			Linear Static	Sobr unif trans	1.35
ELU4			Linear Static	veh pes trans apo	1.35
ELU4			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU4			Linear Static	vient long	0.9
ELU5	Linear Add	No	Linear Static	perm	1.35
ELU5			Linear Static	sobr unif long	1.35
ELU5			Linear Static	veh pes long	1.35
ELU5			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU5			Linear Static	viento trans	0.9
ELU6	Linear Add	No	Linear Static	perm	1.35
ELU6			Linear Static	sobr unif long	1.35
ELU6			Linear Static	veh pes long	1.35
ELU6			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU6			Linear Static	vient long	0.9
ELU7	Linear Add	No	Linear Static	perm	1.35
ELU7			Linear Static	sobr unif long	1.35
ELU7			Linear Static	veh pes long apo	1.35
ELU7			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU7			Linear Static	viento trans	0.9
ELU8	Linear Add	No	Linear Static	perm	1.35
ELU8			Linear Static	sobr unif long	1.35
ELU8			Linear Static	veh pes long apo	1.35
ELU8			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU8			Linear Static	vient long	0.9
ELU9	Linear Add	No	Linear Static	perm	1.35
ELU9			Linear Static	Sobr unif trans	1.35

ELU9			Linear Static	veh pes trans	1.35
ELU9			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU9			Linear Static	temp dil p+20	0.9
ELU10	Linear Add	No	Linear Static	perm	1.35
ELU10			Linear Static	Sobr unif trans	1.35
ELU10			Linear Static	veh pes trans	1.35
ELU10			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU10			Linear Static	temp dil p-10	0.9
ELU11	Linear Add	No	Linear Static	perm	1.35
ELU11			Linear Static	Sobr unif trans	1.35
ELU11			Linear Static	veh pes trans apo	1.35
ELU11			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU11			Linear Static	temp dil p+20	0.9
ELU12	Linear Add	No	Linear Static	perm	1.35
ELU12			Linear Static	Sobr unif trans	1.35
ELU12			Linear Static	veh pes trans apo	1.35
ELU12			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU12			Linear Static	temp dil p-10	0.9
ELU13	Linear Add	No	Linear Static	perm	1.35
ELU13			Linear Static	sobr unif long	1.35
ELU13			Linear Static	veh pes long	1.35
ELU13			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU13			Linear Static	temp dil p+20	0.9
ELU14	Linear Add	No	Linear Static	perm	1.35
ELU14			Linear Static	sobr unif long	1.35
ELU14			Linear Static	veh pes long	1.35
ELU14			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU14			Linear Static	temp dil p-10	0.9
ELU15	Linear Add	No	Linear Static	perm	1.35
ELU15			Linear Static	sobr unif long	1.35
ELU15			Linear Static	veh pes long apo	1.35
ELU15			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU15			Linear Static	temp dil p+20	0.9
ELU16	Linear Add	No	Linear Static	perm	1.35
ELU16			Linear Static	sobr unif long	1.35
ELU16			Linear Static	veh pes long apo	1.35
ELU16			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU16			Linear Static	temp dil p-10	0.9





ELU17	Linear Add	No	Linear Static	perm	1.35
ELU17			Linear Static	Sobr unif trans	1.35
ELU17			Linear Static	veh pes trans	1.35
ELU17			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU17			Linear Static	temp con p+20	0.9
ELU18	Linear Add	No	Linear Static	perm	1.35
ELU18			Linear Static	Sobr unif trans	1.35
ELU18			Linear Static	veh pes trans	1.35
ELU18			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU18			Linear Static	temp con p-10	0.9
ELU19	Linear Add	No	Linear Static	perm	1.35
ELU19			Linear Static	Sobr unif trans	1.35
ELU19			Linear Static	veh pes trans apo	1.35
ELU19			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU19			Linear Static	temp con p+20	0.9
ELU20	Linear Add	No	Linear Static	perm	1.35
ELU20			Linear Static	Sobr unif trans	1.35
ELU20			Linear Static	veh pes trans apo	1.35
ELU20			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU20			Linear Static	temp con p-10	0.9
ELU21	Linear Add	No	Linear Static	perm	1.35
ELU21			Linear Static	sobr unif long	1.35
ELU21			Linear Static	veh pes long	1.35
ELU21			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU21			Linear Static	temp con p+20	0.9
ELU22	Linear Add	No	Linear Static	perm	1.35
ELU22			Linear Static	sobr unif long	1.35
ELU22			Linear Static	veh pes long	1.35
ELU22			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU22			Linear Static	temp con p-10	0.9
ELU23	Linear Add	No	Linear Static	perm	1.35
ELU23			Linear Static	sobr unif long	1.35
ELU23			Linear Static	veh pes long apo	1.35
ELU23			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU23			Linear Static	temp con p+20	0.9
ELU24	Linear Add	No	Linear Static	perm	1.35
ELU24			Linear Static	sobr unif long	1.35
ELU24			Linear Static	veh pes long apo	1.35

ELU24			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU24			Linear Static	temp con p-10	0.9
ELU25	Linear Add	No	Linear Static	perm	1.35
ELU25			Linear Static	Sobr unif trans	0.54
ELU25			Linear Static	veh pes trans	1.0125
ELU25			Linear Static	Frenado y Arranque Carga Horizontal Overstrasse	1.35
ELU25			Linear Static	temp dil p+20	0.9
ELU27	Linear Add	No	Linear Static	perm	1.35
ELU27			Linear Static	Sobr unif trans	0.54
ELU27			Linear Static	veh pes trans apo	1.0125
ELU27			Linear Static	Frenado y Arranque Carga Horizontal Overstrasse	1.35
ELU27			Linear Static	temp dil p+20	0.9
ELU27			Linear Static	Tesado de Tirantes	1.35
ELU28	Linear Add	No	Linear Static	perm	1.35
ELU28			Linear Static	Sobr unif trans	0.54
ELU28			Linear Static	veh pes trans apo	1.0125
ELU28			Linear Static	Frenado y Arranque Carga Horizontal Overstrasse	1.35
ELU28			Linear Static	temp dil p-10	0.9
ELU28			Linear Static	Tesado de Tirantes	1.35
ELU29	Linear Add	No	Linear Static	perm	1.35
ELU29			Linear Static	sobr unif long	0.54
ELU29			Linear Static	veh pes long	1.0125
ELU29			Linear Static	Frenado y Arranque Carga Horizontal Overstrasse	1.35
ELU29			Linear Static	temp dil p+20	0.9
ELU29			Linear Static	Tesado de Tirantes	1.35
ELU30	Linear Add	No	Linear Static	perm	1.35
ELU30			Linear Static	sobr unif long	0.54
ELU30			Linear Static	veh pes long	1.0125
ELU30			Linear Static	Frenado y Arranque Carga Horizontal Overstrasse	1.35
ELU30			Linear Static	temp dil p-10	0.9
ELU30			Linear Static	Tesado de Tirantes	1.35
ELU31	Linear Add	No	Linear Static	perm	1.35
ELU31			Linear Static	sobr unif long	0.54
ELU31			Linear Static	veh pes long apo	1.0125





ELU31			Linear Static	Frenado y Arranque Carga Horizontal Overstrasse	1.35
ELU31			Linear Static	temp dil p+20	0.9
ELU31			Linear Static	Tesado de Tirantes	1.35
ELU32	Linear Add	No	Linear Static	perm	1.35
ELU32			Linear Static	sobr unif long	0.54
ELU32			Linear Static	veh pes long apo	1.0125
ELU32			Linear Static	Frenado y Arranque Carga Horizontal Overstrasse	1.35
ELU32			Linear Static	temp dil p-10	0.9
ELU32			Linear Static	Tesado de Tirantes	1.35
ELU33	Linear Add	No	Linear Static	perm	1.35
ELU33			Linear Static	Sobr unif trans	0.54
ELU33			Linear Static	veh pes trans	1.0125
ELU33			Linear Static	Frenado y Arranque Carga Horizontal Overstrasse	1.35
ELU33			Linear Static	temp con p+20	0.9
ELU33			Linear Static	Tesado de Tirantes	1.35
ELU34	Linear Add	No	Linear Static	perm	1.35
ELU34			Linear Static	Sobr unif trans	0.54
ELU34			Linear Static	veh pes trans	1.0125
ELU34			Linear Static	Frenado y Arranque Carga Horizontal Overstrasse	1.35
ELU34			Linear Static	temp con p-10	0.9
ELU34			Linear Static	Tesado de Tirantes	1.35
ELU35	Linear Add	No	Linear Static	perm	1.35
ELU35			Linear Static	Sobr unif trans	0.54
ELU35			Linear Static	veh pes trans apo	1.0125
ELU35			Linear Static	Frenado y Arranque Carga Horizontal Overstrasse	1.35
ELU35			Linear Static	temp con p+20	0.9
ELU35			Linear Static	Tesado de Tirantes	1.35
ELU36	Linear Add	No	Linear Static	perm	1.35
ELU36			Linear Static	Sobr unif trans	0.54
ELU36			Linear Static	veh pes trans apo	1.0125
ELU36			Linear Static	Frenado y Arranque Carga Horizontal Overstrasse	1.35
ELU36			Linear Static	temp con p-10	0.9
ELU36			Linear Static	Tesado de Tirantes	1.35
ELU37	Linear Add	No	Linear Static	perm	1.35

ELU37			Linear Static	sobr unif long	0.54
ELU37			Linear Static	veh pes long	1.0125
ELU37			Linear Static	Frenado y Arranque Carga Horizontal Overstrasse	1.35
ELU37			Linear Static	temp con p+20	0.9
ELU37			Linear Static	Tesado de Tirantes	1.35
ELU38	Linear Add	No	Linear Static	perm	1.35
ELU38			Linear Static	sobr unif long	0.54
ELU38			Linear Static	veh pes long	1.0125
ELU38			Linear Static	Frenado y Arranque Carga Horizontal Overstrasse	1.35
ELU38			Linear Static	temp con p-10	0.9
ELU38			Linear Static	Tesado de Tirantes	1.35
ELU39	Linear Add	No	Linear Static	perm	1.35
ELU39			Linear Static	sobr unif long	0.54
ELU39			Linear Static	veh pes long apo	1.0125
ELU39			Linear Static	Frenado y Arranque Carga Horizontal Overstrasse	1.35
ELU39			Linear Static	temp con p+20	0.9
ELU39			Linear Static	Tesado de Tirantes	1.35
ELU40	Linear Add	No	Linear Static	perm	1.35
ELU40			Linear Static	sobr unif long	0.54
ELU40			Linear Static	veh pes long apo	1.0125
ELU40			Linear Static	Frenado y Arranque Carga Horizontal Overstrasse	1.35
ELU40			Linear Static	temp con p-10	0.9
ELU40			Linear Static	Tesado de Tirantes	1.35
ELU41	Linear Add	No	Linear Static	perm	1.35
ELU41			Linear Static	Sobrecarga Uniforme Peatones	1.35
ELU41			Linear Static	viento trans	0.9
ELU41			Linear Static	Tesado de Tirantes	1.35
ELU42	Linear Add	No	Linear Static	perm	1.35
ELU42			Linear Static	Sobrecarga Uniforme Peatones	1.35
ELU42			Linear Static	vient long	0.9
ELU42			Linear Static	Tesado de Tirantes	1.35
ELU43	Linear Add	No	Linear Static	perm	1.35
ELU43			Linear Static	Sobrecarga Uniforme Peatones	1.35
ELU43			Linear Static	temp dil p+20	0.9
ELU43			Linear Static	Tesado de Tirantes	1.35



ELU44	Linear Add	No	Linear Static	perm	1.35
ELU44			Linear Static	Sobrecarga Uniforme Peatones	1.35
ELU44			Linear Static	temp dil p-10	0.9
ELU44			Linear Static	Tesado de Tirantes	1.35
ELU45	Linear Add	No	Linear Static	perm	1.35
ELU45			Linear Static	Sobrecarga Uniforme Peatones	1.35
ELU45			Linear Static	temp con p+20	0.9
ELU45			Linear Static	Tesado de Tirantes	1.35
ELU46	Linear Add	No	Linear Static	perm	1.35
ELU46			Linear Static	Sobrecarga Uniforme Peatones	1.35
ELU46			Linear Static	temp con p-10	0.9
ELU46			Linear Static	Tesado de Tirantes	1.35
ELU47	Linear Add	No	Linear Static	perm	1.35
ELU47			Linear Static	Viento Transversal - Horizontal	1.5
ELU47			Linear Static	Viento Transversal - Vertical Empuje Izquierdo	1.5
ELU47			Linear Static	Viento Arco Horizontal Izquierda	1.5
ELU47			Linear Static	Viento Arco Vertical Empuje	1.5
ELU47			Linear Static	Nieve	1.2
ELU47			Linear Static	Nieve Arco	1.2
ELU47			Linear Static	Tesado de Tirantes	1.35
ELU48	Linear Add	No	Linear Static	perm	1.35
ELU48			Linear Static	Viento Longitudinal	1.5
ELU48			Linear Static	Viento Arco Longitudinal Tempelhof	1.5
ELU48			Linear Static	Nieve	1.2
ELU48			Linear Static	Nieve Arco	1.2
ELU48			Linear Static	Tesado de Tirantes	1.35
ELU49	Linear Add	No	Linear Static	perm	1.35
ELU49			Linear Static	Viento Transversal - Horizontal Izquierdo	1.5
ELU49			Linear Static	Viento Transversal - Vertical Empuje	1.5
ELU49			Linear Static	Nieve	1.2
ELU49			Linear Static	Nieve Arco	1.2
ELU49			Linear Static	Viento Arco Horizontal Derecha	1.5
ELU49			Linear Static	Viento Arco Vertical Empuje	1.5
ELU49			Linear Static	Tesado de Tirantes	1.35
ELU50	Linear Add	No	Linear Static	perm	1.35
ELU50			Linear Static	Viento Longitudinal Overstrassen	1.5

ELU50			Linear Static	Viento Arco Longitudinal Overstrassen	1.5
ELU50			Linear Static	Nieve	1.2
ELU50			Linear Static	Nieve Arco	1.2
ELU50			Linear Static	Tesado de Tirantes	1.35
ELU51	Linear Add	No	Linear Static	perm	1.35
ELU51			Linear Static	Viento Transversal Vertical Succion Derecho	1.5
ELU51			Linear Static	Viento Arco Horizontal Izquierda	1.5
ELU51			Linear Static	Nieve	1.2
ELU51			Linear Static	Nieve Arco	1.2
ELU51			Linear Static	Viento Arco Vertical Succion	1.5
ELU51			Linear Static	Tesado de Tirantes	1.35
ELU52	Linear Add	No	Linear Static	perm	1.35
ELU52			Linear Static	Viento Transversal - Horizontal Izquierdo	1.5
ELU52			Linear Static	Viento Transversal - Vertical	1.5
ELU52			Linear Static	Nieve	1.2
ELU52			Linear Static	Nieve Arco	1.2
ELU52			Linear Static	Viento Arco Horizontal Derecha	1.5
ELU52			Linear Static	Viento Arco Vertical Succion	1.5
ELU52			Linear Static	Tesado de Tirantes	1.35
ELU53	Linear Add	No	Linear Static	perm	1.35
ELU53			Linear Static	Viento Transversal - Horizontal Izquierdo	0.9
ELU53			Linear Static	Viento Transversal - Vertical Empuje	0.9
ELU53			Linear Static	Nieve	1.5
ELU53			Linear Static	Nieve Arco	1.5
ELU53			Linear Static	Viento Arco Horizontal Derecha	0.9
ELU53			Linear Static	Viento Arco Vertical Empuje	0.9
ELU53			Linear Static	Tesado de Tirantes	1.35
ELU54	Linear Add	No	Linear Static	perm	1.35
ELU54			Linear Static	Viento Longitudinal	0.9
ELU54			Linear Static	Viento Arco Longitudinal Tempelhof	0.9
ELU54			Linear Static	Nieve	1.5
ELU54			Linear Static	Nieve Arco	1.5
ELU54			Linear Static	Tesado de Tirantes	1.35
ELU55	Linear Add	No	Linear Static	perm	1.35
ELU55			Linear Static	temp dil p+20	0.9



ELU55			Linear Static	Nieve	1.5
ELU55			Linear Static	Nieve Arco	1.5
ELU55			Linear Static	Tesado de Tirantes	1.35
ELU56	Linear Add	No	Linear Static	perm	1.35
ELU56			Linear Static	temp dil p-10	0.9
ELU56			Linear Static	Nieve	1.5
ELU56			Linear Static	Nieve Arco	1.5
ELU56			Linear Static	Tesado de Tirantes	1.35
ELU57	Linear Add	No	Linear Static	perm	1.35
ELU57			Linear Static	Sobr unif trans	0.54
ELU57			Linear Static	veh pes trans	1.0125
ELU57			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU57			Linear Static	temp dil p+20	1.5
ELU57			Linear Static	Tesado de Tirantes	1.35
ELU58	Linear Add	No	Linear Static	perm	1.35
ELU58			Linear Static	Sobr unif trans	0.54
ELU58			Linear Static	veh pes trans	1.0125
ELU58			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU58			Linear Static	temp dil p-10	1.5
ELU58			Linear Static	Tesado de Tirantes	1.35
ELU59	Linear Add	No	Linear Static	perm	1.35
ELU59			Linear Static	Sobr unif trans	0.54
ELU59			Linear Static	veh pes trans apo	1.0125
ELU59			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU59			Linear Static	temp dil p+20	1.5
ELU59			Linear Static	Tesado de Tirantes	1.35
ELU60	Linear Add	No	Linear Static	perm	1.35
ELU60			Linear Static	Sobr unif trans	0.54
ELU60			Linear Static	veh pes trans apo	1.0125
ELU60			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU60			Linear Static	temp dil p-10	1.5
ELU60			Linear Static	Tesado de Tirantes	1.35
ELU61	Linear Add	No	Linear Static	perm	1.35
ELU61			Linear Static	sobr unif long	0.54
ELU61			Linear Static	veh pes long	1.0125
ELU61			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU61			Linear Static	temp dil p+20	1.5
ELU61			Linear Static	Tesado de Tirantes	1.35

ELU62	Linear Add	No	Linear Static	perm	1.35
ELU62			Linear Static	sobr unif long	0.54
ELU62			Linear Static	veh pes long	1.0125
ELU62			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU62			Linear Static	temp dil p-10	1.5
ELU62			Linear Static	Tesado de Tirantes	1.35
ELU63	Linear Add	No	Linear Static	perm	1.35
ELU63			Linear Static	sobr unif long	0.54
ELU63			Linear Static	veh pes long apo	1.0125
ELU63			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU63			Linear Static	temp dil p+20	1.5
ELU63			Linear Static	Tesado de Tirantes	1.35
ELU64	Linear Add	No	Linear Static	perm	1.35
ELU64			Linear Static	sobr unif long	0.54
ELU64			Linear Static	veh pes long apo	1.0125
ELU64			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU64			Linear Static	temp dil p-10	1.5
ELU64			Linear Static	Tesado de Tirantes	1.35
ELU65	Linear Add	No	Linear Static	perm	1.35
ELU65			Linear Static	Sobr unif trans	0.54
ELU65			Linear Static	veh pes trans	1.0125
ELU65			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU65			Linear Static	temp con p+20	1.5
ELU65			Linear Static	Tesado de Tirantes	1.35
ELU66	Linear Add	No	Linear Static	perm	1.35
ELU66			Linear Static	Sobr unif trans	0.54
ELU66			Linear Static	veh pes trans	1.0125
ELU66			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU66			Linear Static	temp con p-10	1.5
ELU66			Linear Static	Tesado de Tirantes	1.35
ELU67	Linear Add	No	Linear Static	perm	1.35
ELU67			Linear Static	Sobr unif trans	0.54
ELU67			Linear Static	veh pes trans apo	1.0125
ELU67			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU67			Linear Static	temp con p+20	1.5
ELU67			Linear Static	Tesado de Tirantes	1.35
ELU68	Linear Add	No	Linear Static	perm	1.35
ELU68			Linear Static	Sobr unif trans	0.54



ELU68			Linear Static	veh pes trans apo	1.0125
ELU68			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU68			Linear Static	temp con p-10	1.5
ELU68			Linear Static	Tesado de Tirantes	1.35
ELU69	Linear Add	No	Linear Static	perm	1.35
ELU69			Linear Static	sobr unif long	0.54
ELU69			Linear Static	veh pes long	1.0125
ELU69			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU69			Linear Static	temp con p+20	1.5
ELU69			Linear Static	Tesado de Tirantes	1.35
ELU70	Linear Add	No	Linear Static	perm	1.35
ELU70			Linear Static	sobr unif long	0.54
ELU70			Linear Static	veh pes long	1.0125
ELU70			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU70			Linear Static	temp con p-10	1.5
ELU70			Linear Static	Tesado de Tirantes	1.35
ELU71	Linear Add	No	Linear Static	perm	1.35
ELU71			Linear Static	sobr unif long	0.54
ELU71			Linear Static	veh pes long apo	1.0125
ELU71			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU71			Linear Static	temp con p+20	1.5
ELU71			Linear Static	Tesado de Tirantes	1.35
ELU72	Linear Add	No	Linear Static	perm	1.35
ELU72			Linear Static	sobr unif long	0.54
ELU72			Linear Static	veh pes long apo	1.0125
ELU72			Linear Static	Sobrecarga Uniforme Peatones	0.5
ELU72			Linear Static	temp con p-10	1.5
ELU72			Linear Static	Tesado de Tirantes	1.35
ELU73	Linear Add	No	Linear Static	perm	1.35
ELU73			Linear Static	Sobrecarga Uniforme Peatones	0.54
ELU73			Linear Static	temp dil p+20	1.5
ELU73			Linear Static	Tesado de Tirantes	1.35
ELU74	Linear Add	No	Linear Static	perm	1.35
ELU74			Linear Static	Sobrecarga Uniforme Peatones	0.54
ELU74			Linear Static	temp dil p-10	1.5
ELU74			Linear Static	Tesado de Tirantes	1.35
ELU75	Linear Add	No	Linear Static	perm	1.35
ELU75			Linear Static	Sobrecarga Uniforme Peatones	0.54

ELU75			Linear Static	temp con p+20	1.5
ELU75			Linear Static	Tesado de Tirantes	1.35
ELU76	Linear Add	No	Linear Static	perm	1.35
ELU76			Linear Static	Sobrecarga Uniforme Peatones	0.54
ELU76			Linear Static	temp con p-10	1.5
ELU76			Linear Static	Tesado de Tirantes	1.35
ELU77	Linear Add	No	Linear Static	perm	1.35
ELU77			Linear Static	Nieve	1.2
ELU77			Linear Static	temp con p+20	1.5
ELU77			Linear Static	Nieve Arco	1.2
ELU77			Linear Static	Tesado de Tirantes	1.35
ELU78	Linear Add	No	Linear Static	perm	1.35
ELU78			Linear Static	Nieve	1.2
ELU78			Linear Static	temp con p-10	1.5
ELU78			Linear Static	Nieve Arco	1.2
ELU78			Linear Static	Tesado de Tirantes	1.35
ELU26	Linear Add	No	Linear Static	perm	1.35
ELU26			Linear Static	Sobr unif trans	0.54
ELU26			Linear Static	veh pes trans	1.0125
ELU26			Linear Static	Frenado y Arranque Carga Horizontal Overstrasse	1.35
ELU26			Linear Static	temp dil p-10	0.9
frELS1	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS1			Linear Static	Sobr unif trans	0.4
frELS1			Linear Static	veh pes trans	0.75
frELS1			Linear Static	Sobrecarga Uniforme Peatones	0.5
frELS3	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS3			Linear Static	Sobr unif trans	0.4
frELS3			Linear Static	veh pes trans apo	0.75
frELS3			Linear Static	Sobrecarga Uniforme Peatones	0.5
frELS5	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS5			Linear Static	sobr unif long	0.4
frELS5			Linear Static	veh pes long	0.75
frELS5			Linear Static	Sobrecarga Uniforme Peatones	0.5
frELS7	Linear Add	No	Response Combo	Cargas Permanentes	1





frELS7			Linear Static	sobr unif long	0.4
frELS7			Linear Static	veh pes long apo	0.75
frELS7			Linear Static	Sobrecarga Uniforme Peatones	0.5
frELS9	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS9			Linear Static	Sobr unif trans	0.4
frELS9			Linear Static	veh pes trans	0.75
frELS9			Linear Static	Sobrecarga Uniforme Peatones	0.5
frELS9			Linear Static	temp dil p+20	0.5
frELS10	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS10			Linear Static	Sobr unif trans	0.4
frELS10			Linear Static	veh pes trans	0.75
frELS10			Linear Static	Sobrecarga Uniforme Peatones	0.5
frELS10			Linear Static	temp dil p-10	0.5
frELS11	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS11			Linear Static	Sobr unif trans	0.4
frELS11			Linear Static	veh pes trans apo	0.75
frELS11			Linear Static	Sobrecarga Uniforme Peatones	0.5
frELS11			Linear Static	temp dil p+20	0.5
frELS12	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS12			Linear Static	Sobr unif trans	0.4
frELS12			Linear Static	veh pes trans apo	0.75
frELS12			Linear Static	Sobrecarga Uniforme Peatones	0.5
frELS12			Linear Static	temp dil p-10	0.5
frELS13	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS13			Linear Static	sobr unif long	0.4
frELS13			Linear Static	veh pes long	0.75
frELS13			Linear Static	Sobrecarga Uniforme Peatones	0.5
frELS13			Linear Static	temp dil p+20	0.5
frELS14	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS14			Linear Static	sobr unif long	0.4
frELS14			Linear Static	veh pes long	0.75
frELS14			Linear Static	Sobrecarga Uniforme Peatones	0.5
frELS14			Linear Static	temp dil p-10	0.5
frELS15	Linear Add	No	Response	Cargas Permanentes	1

			Combo		
frELS15			Linear Static	sobr unif long	0.4
frELS15			Linear Static	veh pes long apo	0.75
frELS15			Linear Static	Sobrecarga Uniforme Peatones	0.5
frELS15			Linear Static	temp dil p+20	0.5
frELS16	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS16			Linear Static	sobr unif long	0.4
frELS16			Linear Static	veh pes long apo	0.75
frELS16			Linear Static	Sobrecarga Uniforme Peatones	0.5
frELS16			Linear Static	temp dil p-10	0.5
frELS17	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS17			Linear Static	Sobr unif trans	0.4
frELS17			Linear Static	veh pes trans	0.75
frELS17			Linear Static	Sobrecarga Uniforme Peatones	0.5
frELS17			Linear Static	temp con p+20	0.5
frELS18	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS18			Linear Static	Sobr unif trans	0.4
frELS18			Linear Static	veh pes trans	0.75
frELS18			Linear Static	Sobrecarga Uniforme Peatones	0.5
frELS18			Linear Static	temp con p-10	0.5
frELS19	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS19			Linear Static	Sobr unif trans	0.4
frELS19			Linear Static	veh pes trans apo	0.75
frELS19			Linear Static	Sobrecarga Uniforme Peatones	0.5
frELS19			Linear Static	temp con p+20	0.5
frELS20	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS20			Linear Static	Sobr unif trans	0.4
frELS20			Linear Static	veh pes trans apo	0.75
frELS20			Linear Static	Sobrecarga Uniforme Peatones	0.5
frELS20			Linear Static	temp con p-10	0.5
frELS21	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS21			Linear Static	sobr unif long	0.4
frELS21			Linear Static	veh pes long	0.75
frELS21			Linear Static	Sobrecarga Uniforme Peatones	0.5





frELS21			Linear Static	temp con p+20	0.5
frELS22	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS22			Linear Static	sobr unif long	0.4
frELS22			Linear Static	veh pes long	0.75
frELS22			Linear Static	Sobrecarga Uniforme Peatones	0.5
frELS22			Linear Static	temp con p-10	0.5
frELS23	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS23			Linear Static	sobr unif long	0.4
frELS23			Linear Static	veh pes long apo	0.75
frELS23			Linear Static	Sobrecarga Uniforme Peatones	0.5
frELS23			Linear Static	temp con p+20	0.5
frELS24	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS24			Linear Static	sobr unif long	0.4
frELS24			Linear Static	veh pes long apo	0.75
frELS24			Linear Static	Sobrecarga Uniforme Peatones	0.5
frELS24			Linear Static	temp con p-10	0.5
frELS25	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS25			Linear Static	Sobr unif trans	0.4
frELS25			Linear Static	veh pes trans	0.75
frELS25			Linear Static	temp dil p+20	0.5
frELS26	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS26			Linear Static	Sobr unif trans	0.4
frELS26			Linear Static	veh pes trans	0.75
frELS26			Linear Static	temp dil p-10	0.5
frELS27	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS27			Linear Static	Sobr unif trans	0.4
frELS27			Linear Static	veh pes trans apo	0.75
frELS27			Linear Static	temp dil p+20	0.5
frELS28	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS28			Linear Static	Sobr unif trans	0.4
frELS28			Linear Static	veh pes trans apo	0.75
frELS28			Linear Static	temp dil p-10	0.5
frELS29	Linear Add	No	Response	Cargas Permanentes	1

				Combo	
frELS29			Linear Static	sobr unif long	0.4
frELS29			Linear Static	veh pes long	0.75
frELS29			Linear Static	temp dil p+20	0.5
frELS30	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS30			Linear Static	sobr unif long	0.4
frELS30			Linear Static	veh pes long	0.75
frELS30			Linear Static	temp dil p-10	0.5
frELS31	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS31			Linear Static	sobr unif long	0.4
frELS31			Linear Static	veh pes long apo	0.75
frELS31			Linear Static	temp dil p+20	0.5
frELS32	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS32			Linear Static	sobr unif long	0.4
frELS32			Linear Static	veh pes long apo	0.75
frELS32			Linear Static	temp dil p-10	0.5
frELS33	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS33			Linear Static	Sobr unif trans	0.4
frELS33			Linear Static	veh pes trans	0.75
frELS33			Linear Static	temp con p+20	0.5
frELS34	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS34			Linear Static	Sobr unif trans	0.4
frELS34			Linear Static	veh pes trans	0.75
frELS34			Linear Static	temp con p-10	0.5
frELS35	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS35			Linear Static	Sobr unif trans	0.4
frELS35			Linear Static	veh pes trans apo	0.75
frELS35			Linear Static	temp con p+20	0.5
frELS36	Linear Add	No	Response Combo	Cargas Permanentes	1
frELS36			Linear Static	Sobr unif trans	0.4
frELS36			Linear Static	veh pes trans apo	0.75
frELS36			Linear Static	temp con p-10	0.5
frELS37	Linear Add	No	Response	Cargas Permanentes	1



Combo				
frELS37	Linear Static		sobr unif long	0.4
frELS37	Linear Static		veh pes long	0.75
frELS37	Linear Static		temp con p+20	0.5
frELS38	Linear Add	No	Response Combo	Cargas Permanentes
frELS38	Linear Static		sobr unif long	0.4
frELS38	Linear Static		veh pes long	0.75
frELS38	Linear Static		temp con p-10	0.5
frELS39	Linear Add	No	Response Combo	Cargas Permanentes
frELS39	Linear Static		sobr unif long	0.4
frELS39	Linear Static		veh pes long apo	0.75
frELS39	Linear Static		temp con p+20	0.5
frELS40	Linear Add	No	Response Combo	Cargas Permanentes
frELS40	Linear Static		sobr unif long	0.4
frELS40	Linear Static		veh pes long apo	0.75
frELS40	Linear Static		temp con p-10	0.5
qpELS1	Linear Add	No	Response Combo	Cargas Permanentes
qpELS1	Linear Static		Sobr unif trans	0
qpELS1	Linear Static		veh pes trans	0
qpELS1	Linear Static		Sobrecarga Uniforme Peatones	0
qpELS3	Linear Add	No	Response Combo	Cargas Permanentes
qpELS3	Linear Static		Sobr unif trans	0
qpELS3	Linear Static		veh pes trans apo	0
qpELS3	Linear Static		Sobrecarga Uniforme Peatones	0
qpELS5	Linear Add	No	Response Combo	Cargas Permanentes
qpELS5	Linear Static		sobr unif long	0
qpELS5	Linear Static		veh pes long	0
qpELS5	Linear Static		Sobrecarga Uniforme Peatones	0
qpELS7	Linear Add	No	Response Combo	Cargas Permanentes
qpELS7	Linear Static		sobr unif long	0
qpELS7	Linear Static		veh pes long apo	0
qpELS7	Linear Static		Sobrecarga Uniforme Peatones	0
qpELS9	Linear Add	No	Response	Cargas Permanentes

Combo				
qpELS9	Linear Static		Sobr unif trans	0
qpELS9	Linear Static		veh pes trans	0
qpELS9	Linear Static		Sobrecarga Uniforme Peatones	0
qpELS9	Linear Static		temp dil p+20	0.5
qpELS10	Linear Add	No	Response Combo	Cargas Permanentes
qpELS10	Linear Static		Sobr unif trans	0
qpELS10	Linear Static		veh pes trans	0
qpELS10	Linear Static		Sobrecarga Uniforme Peatones	0
qpELS10	Linear Static		temp dil p-10	0.5
qpELS11	Linear Add	No	Response Combo	Cargas Permanentes
qpELS11	Linear Static		Sobr unif trans	0
qpELS11	Linear Static		veh pes trans apo	0
qpELS11	Linear Static		Sobrecarga Uniforme Peatones	0
qpELS11	Linear Static		temp dil p+20	0.5
qpELS12	Linear Add	No	Response Combo	Cargas Permanentes
qpELS12	Linear Static		Sobr unif trans	0
qpELS12	Linear Static		veh pes trans apo	0
qpELS12	Linear Static		Sobrecarga Uniforme Peatones	0
qpELS12	Linear Static		temp dil p-10	0.5
qpELS13	Linear Add	No	Response Combo	Cargas Permanentes
qpELS13	Linear Static		sobr unif long	0
qpELS13	Linear Static		veh pes long	0
qpELS13	Linear Static		Sobrecarga Uniforme Peatones	0
qpELS13	Linear Static		temp dil p+20	0.5
qpELS14	Linear Add	No	Response Combo	Cargas Permanentes
qpELS14	Linear Static		sobr unif long	0
qpELS14	Linear Static		veh pes long	0
qpELS14	Linear Static		Sobrecarga Uniforme Peatones	0
qpELS14	Linear Static		temp dil p-10	0.5
qpELS15	Linear Add	No	Response Combo	Cargas Permanentes
qpELS15	Linear Static		sobr unif long	0
qpELS15	Linear Static		veh pes long apo	0
qpELS15	Linear Static		Sobrecarga Uniforme Peatones	0



qpELS15			Linear Static	temp dil p+20	0.5
qpELS16	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS16			Linear Static	sobr unif long	0
qpELS16			Linear Static	veh pes long apo	0
qpELS16			Linear Static	Sobrecarga Uniforme Peatones	0
qpELS16			Linear Static	temp dil p-10	0.5
qpELS17	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS17			Linear Static	Sobr unif trans	0
qpELS17			Linear Static	veh pes trans	0
qpELS17			Linear Static	Sobrecarga Uniforme Peatones	0
qpELS17			Linear Static	temp con p+20	0.5
qpELS18	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS18			Linear Static	Sobr unif trans	0
qpELS18			Linear Static	veh pes trans	0
qpELS18			Linear Static	Sobrecarga Uniforme Peatones	0
qpELS18			Linear Static	temp con p-10	0.5
qpELS19	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS19			Linear Static	Sobr unif trans	0
qpELS19			Linear Static	veh pes trans apo	0
qpELS19			Linear Static	Sobrecarga Uniforme Peatones	0
qpELS19			Linear Static	temp con p+20	0.5
qpELS20	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS20			Linear Static	Sobr unif trans	0
qpELS20			Linear Static	veh pes trans apo	0
qpELS20			Linear Static	Sobrecarga Uniforme Peatones	0
qpELS20			Linear Static	temp con p-10	0.5
qpELS21	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS21			Linear Static	sobr unif long	0
qpELS21			Linear Static	veh pes long	0
qpELS21			Linear Static	Sobrecarga Uniforme Peatones	0
qpELS21			Linear Static	temp con p+20	0.5
qpELS22	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS22			Linear Static	sobr unif long	0

qpELS22			Linear Static	veh pes long	0
qpELS22			Linear Static	Sobrecarga Uniforme Peatones	0
qpELS22			Linear Static	temp con p-10	0.5
qpELS23	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS23			Linear Static	sobr unif long	0
qpELS23			Linear Static	veh pes long apo	0
qpELS23			Linear Static	Sobrecarga Uniforme Peatones	0
qpELS23			Linear Static	temp con p+20	0.5
qpELS24	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS24			Linear Static	sobr unif long	0
qpELS24			Linear Static	veh pes long apo	0
qpELS24			Linear Static	Sobrecarga Uniforme Peatones	0
qpELS24			Linear Static	temp con p-10	0.5
qpELS25	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS25			Linear Static	Sobr unif trans	0
qpELS25			Linear Static	veh pes trans	0
qpELS25			Linear Static	temp dil p+20	0.5
qpELS26	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS26			Linear Static	Sobr unif trans	0
qpELS26			Linear Static	veh pes trans	0
qpELS26			Linear Static	temp dil p-10	0.5
qpELS27	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS27			Linear Static	Sobr unif trans	0
qpELS27			Linear Static	veh pes trans apo	0
qpELS27			Linear Static	temp dil p+20	0.5
qpELS28	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS28			Linear Static	Sobr unif trans	0
qpELS28			Linear Static	veh pes trans apo	0
qpELS28			Linear Static	temp dil p-10	0.5
qpELS29	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS29			Linear Static	sobr unif long	0
qpELS29			Linear Static	veh pes long	0
qpELS29			Linear Static	temp dil p+20	0.5



qpELS30	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS30			Linear Static	sobr unif long	0
qpELS30			Linear Static	veh pes long	0
qpELS30			Linear Static	temp dil p-10	0.5
qpELS31	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS31			Linear Static	sobr unif long	0
qpELS31			Linear Static	veh pes long apo	0
qpELS31			Linear Static	temp dil p+20	0.5
qpELS32	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS32			Linear Static	sobr unif long	0
qpELS32			Linear Static	veh pes long apo	0
qpELS32			Linear Static	temp dil p-10	0.5
qpELS33	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS33			Linear Static	Sobr unif trans	0
qpELS33			Linear Static	veh pes trans	0
qpELS33			Linear Static	temp con p+20	0.5
qpELS34	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS34			Linear Static	Sobr unif trans	0
qpELS34			Linear Static	veh pes trans	0
qpELS34			Linear Static	temp con p-10	0.5
qpELS35	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS35			Linear Static	Sobr unif trans	0
qpELS35			Linear Static	veh pes trans apo	0
qpELS35			Linear Static	temp con p+20	0.5
qpELS36	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS36			Linear Static	Sobr unif trans	0
qpELS36			Linear Static	veh pes trans apo	0
qpELS36			Linear Static	temp con p-10	0.5
qpELS37	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS37			Linear Static	sobr unif long	0
qpELS37			Linear Static	veh pes long	0
qpELS37			Linear Static	temp con p+20	0.5

qpELS38	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS38			Linear Static	sobr unif long	0
qpELS38			Linear Static	veh pes long	0
qpELS38			Linear Static	temp con p-10	0.5
qpELS39	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS39			Linear Static	sobr unif long	0
qpELS39			Linear Static	veh pes long apo	0
qpELS39			Linear Static	temp con p+20	0.5
qpELS40	Linear Add	No	Response Combo	Cargas Permanentes	1
qpELS40			Linear Static	sobr unif long	0
qpELS40			Linear Static	veh pes long apo	0
qpELS40			Linear Static	temp con p-10	0.5
carELS1	Linear Add	No	Response Combo	Cargas Permanentes	1
carELS1			Linear Static	Sobr unif trans	1
carELS1			Linear Static	veh pes trans	0
carELS1			Linear Static	Sobrecarga Uniforme Peatones	0
carELS3	Linear Add	No	Response Combo	Cargas Permanentes	1
carELS3			Linear Static	Sobr unif trans	1
carELS3			Linear Static	veh pes trans apo	0
carELS3			Linear Static	Sobrecarga Uniforme Peatones	0
carELS5	Linear Add	No	Response Combo	Cargas Permanentes	1
carELS5			Linear Static	sobr unif long	1
carELS5			Linear Static	veh pes long	0
carELS5			Linear Static	Sobrecarga Uniforme Peatones	0
carELS7	Linear Add	No	Response Combo	Cargas Permanentes	1
carELS7			Linear Static	sobr unif long	11
carELS7			Linear Static	veh pes long apo	0
carELS7			Linear Static	Sobrecarga Uniforme Peatones	0
carELS9	Linear Add	No	Response Combo	Cargas Permanentes	1
carELS9			Linear Static	Sobr unif trans	1
carELS9			Linear Static	veh pes trans	0
carELS9			Linear Static	Sobrecarga Uniforme Peatones	0





carELS9			Linear Static	temp dil p+20	0.5
carELS10	Linear Add	No	Response Combo	Cargas Permanentes	1
carELS10			Linear Static	Sobr unif trans	1
carELS10			Linear Static	veh pes trans	0
carELS10			Linear Static	Sobrecarga Uniforme Peatones	0
carELS10			Linear Static	temp dil p-10	0.5
carELS11	Linear Add	No	Response Combo	Cargas Permanentes	1
carELS11			Linear Static	Sobr unif trans	1
carELS11			Linear Static	veh pes trans apo	0
carELS11			Linear Static	Sobrecarga Uniforme Peatones	0
carELS11			Linear Static	temp dil p+20	0.5
carELS12	Linear Add	No	Response Combo	Cargas Permanentes	1
carELS12			Linear Static	Sobr unif trans	1
carELS12			Linear Static	veh pes trans apo	0
carELS12			Linear Static	Sobrecarga Uniforme Peatones	0
carELS12			Linear Static	temp dil p-10	0.5
carELS13	Linear Add	No	Response Combo	Cargas Permanentes	1
carELS13			Linear Static	sobr unif long	1
carELS13			Linear Static	veh pes long	0
carELS13			Linear Static	Sobrecarga Uniforme Peatones	0
carELS13			Linear Static	temp dil p+20	0.5
carELS14	Linear Add	No	Response Combo	Cargas Permanentes	1
carELS14			Linear Static	sobr unif long	1
carELS14			Linear Static	veh pes long	0
carELS14			Linear Static	Sobrecarga Uniforme Peatones	0
carELS14			Linear Static	temp dil p-10	0.5
carELS15	Linear Add	No	Response Combo	Cargas Permanentes	1
carELS15			Linear Static	sobr unif long	1
carELS15			Linear Static	veh pes long apo	0
carELS15			Linear Static	Sobrecarga Uniforme Peatones	0
carELS15			Linear Static	temp dil p+20	0.5
carELS16	Linear Add	No	Response Combo	Cargas Permanentes	1
carELS16			Linear Static	sobr unif long	1

carELS16			Linear Static	veh pes long apo	0
carELS16			Linear Static	Sobrecarga Uniforme Peatones	0
carELS16			Linear Static	temp dil p-10	0.5
carELS17	Linear Add	No	Response Combo	Cargas Permanentes	1
carELS17			Linear Static	Sobr unif trans	0
carELS17			Linear Static	veh pes trans	0
carELS17			Linear Static	Sobrecarga Uniforme Peatones	0
carELS17			Linear Static	temp con p+20	0.5
carELS18	Linear Add	No	Response Combo	Cargas Permanentes	1
carELS18			Linear Static	Sobr unif trans	0
carELS18			Linear Static	veh pes trans	0
carELS18			Linear Static	Sobrecarga Uniforme Peatones	0
carELS18			Linear Static	temp con p-10	0.5
carELS19	Linear Add	No	Response Combo	Cargas Permanentes	1
carELS19			Linear Static	Sobr unif trans	1
carELS19			Linear Static	veh pes trans apo	0
carELS19			Linear Static	Sobrecarga Uniforme Peatones	0
carELS19			Linear Static	temp con p+20	0.5
carELS20	Linear Add	No	Response Combo	Cargas Permanentes	1
carELS20			Linear Static	Sobr unif trans	1
carELS20			Linear Static	veh pes trans apo	0
carELS20			Linear Static	Sobrecarga Uniforme Peatones	0
carELS20			Linear Static	temp con p-10	0.5
carELS21	Linear Add	No	Response Combo	Cargas Permanentes	1
carELS21			Linear Static	sobr unif long	1
carELS21			Linear Static	veh pes long	0
carELS21			Linear Static	Sobrecarga Uniforme Peatones	0
carELS21			Linear Static	temp con p+20	0.5
carELS22	Linear Add	No	Response Combo	Cargas Permanentes	1
carELS22			Linear Static	sobr unif long	1
carELS22			Linear Static	veh pes long	0
carELS22			Linear Static	Sobrecarga Uniforme Peatones	0
carELS22			Linear Static	temp con p-10	0.5
carELS23	Linear Add	No	Response	Cargas Permanentes	1





Combo				
carELS23	Linear Static	sobr unif long	1	
carELS23	Linear Static	veh pes long apo	0	
carELS23	Linear Static	Sobrecarga Uniforme Peatones	0	
carELS23	Linear Static	temp con p+20	0.5	
carELS24	Linear Add	No	Response Combo	Cargas Permanentes
carELS24	Linear Static	sobr unif long	1	
carELS24	Linear Static	veh pes long apo	0	
carELS24	Linear Static	Sobrecarga Uniforme Peatones	0	
carELS24	Linear Static	temp con p-10	0.5	
carELS25	Linear Add	No	Response Combo	Cargas Permanentes
carELS25	Linear Static	Sobr unif trans	1	
carELS25	Linear Static	veh pes trans	0	
carELS25	Linear Static	temp dil p+20	0.5	
carELS26	Linear Add	No	Response Combo	Cargas Permanentes
carELS26	Linear Static	Sobr unif trans	1	
carELS26	Linear Static	veh pes trans	0	
carELS26	Linear Static	temp dil p-10	0.5	
carELS27	Linear Add	No	Response Combo	Cargas Permanentes
carELS27	Linear Static	Sobr unif trans	1	
carELS27	Linear Static	veh pes trans apo	0	
carELS27	Linear Static	temp dil p+20	0.5	
carELS28	Linear Add	No	Response Combo	Cargas Permanentes
carELS28	Linear Static	Sobr unif trans	1	
carELS28	Linear Static	veh pes trans apo	0	
carELS28	Linear Static	temp dil p-10	0.5	
carELS29	Linear Add	No	Response Combo	Cargas Permanentes
carELS29	Linear Static	sobr unif long	1	
carELS29	Linear Static	veh pes long	0	
carELS29	Linear Static	temp dil p+20	0.5	
carELS30	Linear Add	No	Response Combo	Cargas Permanentes
carELS30	Linear Static	sobr unif long	1	
carELS30	Linear Static	veh pes long	0	

carELS30	Linear Static	temp dil p-10	0.5	
carELS31	Linear Add	No	Response Combo	Cargas Permanentes
carELS31	Linear Static	sobr unif long	1	
carELS31	Linear Static	veh pes long apo	0	
carELS31	Linear Static	temp dil p+20	0.5	
carELS32	Linear Add	No	Response Combo	Cargas Permanentes
carELS32	Linear Static	sobr unif long	1	
carELS32	Linear Static	veh pes long apo	0	
carELS32	Linear Static	temp dil p-10	0.5	
carELS33	Linear Add	No	Response Combo	Cargas Permanentes
carELS33	Linear Static	Sobr unif trans	1	
carELS33	Linear Static	veh pes trans	0	
carELS33	Linear Static	temp con p+20	0.5	
carELS34	Linear Add	No	Response Combo	Cargas Permanentes
carELS34	Linear Static	Sobr unif trans	1	
carELS34	Linear Static	veh pes trans	0	
carELS34	Linear Static	temp con p-10	0.5	
carELS35	Linear Add	No	Response Combo	Cargas Permanentes
carELS35	Linear Static	Sobr unif trans	1	
carELS35	Linear Static	veh pes trans apo	0	
carELS35	Linear Static	temp con p+20	0.5	
carELS36	Linear Add	No	Response Combo	Cargas Permanentes
carELS36	Linear Static	Sobr unif trans	1	
carELS36	Linear Static	veh pes trans apo	0	
carELS36	Linear Static	temp con p-10	0.5	
carELS37	Linear Add	No	Response Combo	Cargas Permanentes
carELS37	Linear Static	sobr unif long	1	
carELS37	Linear Static	veh pes long	0	
carELS37	Linear Static	temp con p+20	0.5	
carELS38	Linear Add	No	Response Combo	Cargas Permanentes
carELS38	Linear Static	sobr unif long	1	
carELS38	Linear Static	veh pes long	0	



carELS38			Linear Static	temp con p-10	0.5
carELS39	Linear Add	No	Response Combo	Cargas Permanentes	1
carELS39			Linear Static	sobr unif long	1
carELS39			Linear Static	veh pes long apo	0
carELS39			Linear Static	temp con p+20	0.5
carELS40	Linear Add	No	Response Combo	Cargas Permanentes	1
carELS40			Linear Static	sobr unif long	1
carELS40			Linear Static	veh pes long apo	0
carELS40			Linear Static	temp con p-10	0.5

## II. RESULTADOS

Se han incluido los resultados obtenidos para las combinaciones ELU5 y frELS3, que son bastante relevantes, con el fin de reducir la extensión del documento.

### II.1. Esfuerzos sobre las barras

TABLE: Element Forces - Frames								
Frame	Station	OutputCase	P	V2	V3	T	M2	M3
Text	m	Text	KN	KN	KN	KN-m	KN-m	KN-m
T1D	0.00	ELU5	1039.06	-5.24	0.00	0.26	0.00	0.00
T1D	8.64	ELU5	1035.01	0.00	0.00	0.26	0.00	22.65
T1D	17.27	ELU5	1030.95	5.24	0.00	0.26	0.00	0.00
T1D	0.00	ELS3	944.45	-5.24	0.00	0.20	0.00	0.00
T1D	8.64	ELS3	940.39	0.00	0.00	0.20	0.00	22.65
T1D	17.27	ELS3	936.33	5.24	0.00	0.20	0.00	0.00
T1I	0.00	ELU5	1052.90	-5.24	0.00	-0.30	0.00	0.00
T1I	8.64	ELU5	1048.85	0.00	0.00	-0.30	0.00	22.65
T1I	17.27	ELU5	1044.79	5.24	0.00	-0.30	0.00	0.00
T1I	0.00	ELS3	947.17	-5.24	0.00	-0.22	0.00	0.00
T1I	8.64	ELS3	943.11	0.00	0.00	-0.22	0.00	22.65
T1I	17.27	ELS3	939.05	5.24	0.00	-0.22	0.00	0.00
T2D	0.00	ELU5	3015.91	-3.81	0.00	0.40	0.00	0.00
T2D	7.30	ELU5	3011.79	0.00	0.00	0.40	0.00	13.90
T2D	14.60	ELU5	3007.67	3.81	0.00	0.40	0.00	0.00
T2D	0.00	ELS3	2496.74	-3.81	0.00	0.31	0.00	0.00

T2D	7.30	ELS3	2492.62	0.00	0.00	0.31	0.00	13.90
T2D	14.60	ELS3	2488.51	3.81	0.00	0.31	0.00	0.00
T2I	0.00	ELU5	2805.40	-3.81	0.00	-0.41	0.00	0.00
T2I	7.30	ELU5	2801.28	0.00	0.00	-0.41	0.00	13.90
T2I	14.60	ELU5	2797.17	3.81	0.00	-0.41	0.00	0.00
T2I	0.00	ELS3	2480.90	-3.81	0.00	-0.32	0.00	0.00
T2I	7.30	ELS3	2476.78	0.00	0.00	-0.32	0.00	13.90
T2I	14.60	ELS3	2472.67	3.81	0.00	-0.32	0.00	0.00
T3D	0.00	ELU5	3108.77	-2.95	0.00	0.18	0.00	0.00
T3D	6.63	ELU5	3104.62	0.00	0.00	0.18	0.00	9.79
T3D	13.25	ELU5	3100.48	2.95	0.00	0.18	0.00	0.00
T3D	0.00	ELS3	2403.30	-2.95	0.00	0.14	0.00	0.00
T3D	6.63	ELS3	2399.16	0.00	0.00	0.14	0.00	9.79
T3D	13.25	ELS3	2395.02	2.95	0.00	0.14	0.00	0.00
T3I	0.00	ELU5	2811.56	-2.95	0.00	-0.15	0.00	0.00
T3I	6.63	ELU5	2807.42	0.00	0.00	-0.15	0.00	9.79
T3I	13.25	ELU5	2803.28	2.95	0.00	-0.15	0.00	0.00
T3I	0.00	ELS3	2385.67	-2.95	0.00	-0.14	0.00	0.00
T3I	6.63	ELS3	2381.53	0.00	0.00	-0.14	0.00	9.79



<b>T3I</b>	13.25	ELS3	2377.39	2.95	0.00	-0.14	0.00	0.00
<b>T4D</b>	0.00	ELU5	3434.79	-3.20	0.00	-0.17	0.00	0.00
<b>T4D</b>	6.78	ELU5	3430.69	0.00	0.00	-0.17	0.00	10.86
<b>T4D</b>	13.57	ELU5	3426.58	3.20	0.00	-0.17	0.00	0.00
<b>T4D</b>	0.00	ELS3	2443.65	-3.20	0.00	-0.11	0.00	0.00
<b>T4D</b>	6.78	ELS3	2439.54	0.00	0.00	-0.11	0.00	10.86
<b>T4D</b>	13.57	ELS3	2435.43	3.20	0.00	-0.11	0.00	0.00
<b>T4I</b>	0.00	ELU5	3014.73	-3.20	0.00	0.23	0.00	0.00
<b>T4I</b>	6.78	ELU5	3010.62	0.00	0.00	0.23	0.00	10.86
<b>T4I</b>	13.57	ELU5	3006.51	3.20	0.00	0.23	0.00	0.00
<b>T4I</b>	0.00	ELS3	2428.81	-3.20	0.00	0.12	0.00	0.00
<b>T4I</b>	6.78	ELS3	2424.70	0.00	0.00	0.12	0.00	10.86
<b>T4I</b>	13.57	ELS3	2420.59	3.20	0.00	0.12	0.00	0.00
<b>T5D</b>	0.00	ELU5	3039.74	-4.36	0.00	-0.23	0.00	0.00
<b>T5D</b>	7.73	ELU5	3035.72	0.00	0.00	-0.23	0.00	16.86
<b>T5D</b>	15.46	ELU5	3031.69	4.36	0.00	-0.23	0.00	0.00
<b>T5D</b>	0.00	ELS3	2362.83	-4.36	0.00	-0.17	0.00	0.00
<b>T5D</b>	7.73	ELS3	2358.80	0.00	0.00	-0.17	0.00	16.86
<b>T5D</b>	15.46	ELS3	2354.77	4.36	0.00	-0.17	0.00	0.00
<b>T5I</b>	0.00	ELU5	2766.48	-4.36	0.00	0.31	0.00	0.00
<b>T5I</b>	7.73	ELU5	2762.46	0.00	0.00	0.31	0.00	16.86
<b>T5I</b>	15.46	ELU5	2758.43	4.36	0.00	0.31	0.00	0.00
<b>T5I</b>	0.00	ELS3	2353.29	-4.36	0.00	0.19	0.00	0.00
<b>T5I</b>	7.73	ELS3	2349.27	0.00	0.00	0.19	0.00	16.86
<b>T5I</b>	15.46	ELS3	2345.24	4.36	0.00	0.19	0.00	0.00
<b>T6D</b>	0.00	ELU5	1025.95	-5.93	0.00	-0.12	0.00	0.00
<b>T6D</b>	9.25	ELU5	1022.04	0.00	0.00	-0.12	0.00	27.44
<b>T6D</b>	18.50	ELU5	1018.13	5.93	0.00	-0.12	0.00	0.00
<b>T6D</b>	0.00	ELS3	863.86	-5.93	0.00	-0.09	0.00	0.00
<b>T6D</b>	9.25	ELS3	859.95	0.00	0.00	-0.09	0.00	27.44
<b>T6D</b>	18.50	ELS3	856.04	5.93	0.00	-0.09	0.00	0.00
<b>T6I</b>	0.00	ELU5	957.48	-5.93	0.00	0.19	0.00	0.00
<b>T6I</b>	9.25	ELU5	953.57	0.00	0.00	0.19	0.00	27.44
<b>T6I</b>	18.50	ELU5	949.66	5.93	0.00	0.19	0.00	0.00
<b>T6I</b>	0.00	ELS3	864.11	-5.93	0.00	0.10	0.00	0.00
<b>T6I</b>	9.25	ELS3	860.20	0.00	0.00	0.10	0.00	27.44
<b>T6I</b>	18.50	ELS3	856.29	5.93	0.00	0.10	0.00	0.00
<b>A1-2</b>	0.00	ELU5	-26228.56	8638.37	63.42	4.10	430.52	91654.39

<b>A1-2</b>	1.25	ELU5	-26077.34	8807.91	60.04	4.10	353.34	80743.64
<b>A1-2</b>	2.50	ELU5	-25963.42	8935.64	56.67	4.10	280.38	69647.06
<b>A1-2</b>	0.00	ELS3	-22035.45	7109.07	3.41	-23.11	6.24	76195.32
<b>A1-2</b>	1.25	ELS3	-21885.41	7277.29	3.41	-23.11	1.97	67197.47
<b>A1-2</b>	2.50	ELS3	-21772.66	7403.70	3.41	-23.11	-2.30	58015.42
<b>A2-3</b>	0.00	ELU5	-26019.40	8771.31	56.67	5.87	280.35	69647.06
<b>A2-3</b>	1.25	ELU5	-25931.71	8870.88	53.69	5.87	211.24	58598.28
<b>A2-3</b>	2.50	ELU5	-25857.09	8955.62	50.72	5.87	145.86	47434.07
<b>A2-3</b>	0.00	ELS3	-21819.03	7265.89	3.41	-23.13	-2.15	58015.42
<b>A2-3</b>	1.25	ELS3	-21731.98	7364.75	3.41	-23.13	-6.43	48852.41
<b>A2-3</b>	2.50	ELS3	-21657.98	7448.78	3.41	-23.13	-10.70	39574.87
<b>A3-4</b>	0.00	ELU5	-25992.48	8554.72	50.72	8.12	145.75	47434.07
<b>A3-4</b>	1.25	ELU5	-25930.33	8627.53	48.53	8.12	83.65	36680.74
<b>A3-4</b>	2.50	ELU5	-25878.32	8688.46	46.35	8.12	24.28	25843.71
<b>A3-4</b>	0.00	ELS3	-21770.57	7113.00	3.41	-23.29	-10.34	39574.87
<b>A3-4</b>	1.25	ELS3	-21709.40	7184.66	3.41	-23.29	-14.61	30626.62
<b>A3-4</b>	2.50	ELS3	-21658.36	7244.46	3.41	-23.29	-18.89	21596.10
<b>A4-5</b>	0.00	ELU5	-26275.97	7399.34	46.35	9.31	23.85	25843.71
<b>A4-5</b>	1.25	ELU5	-26238.74	7447.60	45.26	9.31	-33.44	16557.39
<b>A4-5</b>	2.50	ELU5	-26214.69	7478.78	44.18	9.31	-89.38	7221.40
<b>A4-5</b>	0.00	ELS3	-21989.82	6165.59	3.41	-24.19	-17.71	21596.10
<b>A4-5</b>	1.25	ELS3	-21953.19	6213.07	3.41	-24.19	-21.98	13853.32
<b>A4-5</b>	2.50	ELS3	-21929.73	6243.47	3.41	-24.19	-26.25	6061.84
<b>A5-6</b>	0.00	ELU5	-26835.22	4797.21	44.18	0.25	-89.86	7221.40
<b>A5-6</b>	1.25	ELU5	-26820.70	4820.57	42.74	0.25	-144.33	1194.06
<b>A5-6</b>	2.51	ELU5	-26807.43	4841.91	41.30	0.25	-197.00	-4861.30
<b>A5-6</b>	0.00	ELS3	-22447.54	4000.29	3.41	-26.72	-23.68	6061.84
<b>A5-6</b>	1.25	ELS3	-22433.56	4022.78	3.41	-26.72	-27.96	1033.85
<b>A5-6</b>	2.51	ELS3	-22420.83	4043.25	3.41	-26.72	-32.24	-4021.06
<b>A6-7</b>	0.00	ELU5	-27158.17	2125.11	41.30	-19.53	-196.02	-4861.30
<b>A6-7</b>	1.25	ELU5	-27147.35	2147.20	39.74	-19.53	-246.75	-7535.52
<b>A6-7</b>	2.50	ELU5	-27135.99	2170.39	38.19	-19.53	-295.53	-10238.08
<b>A6-7</b>	0.00	ELS3	-22713.54	1771.04	3.41	-29.82	-29.39	-4021.06
<b>A6-7</b>	1.25	ELS3	-22703.20	1792.14	3.41	-29.82	-33.66	-6251.39
<b>A6-7</b>	2.50	ELS3	-22692.32	1814.36	3.41	-29.82	-37.94	-8508.83
<b>A7-8</b>	0.00	ELU5	-27221.89	203.62	38.19	-40.84	-293.35	-10238.08
<b>A7-8</b>	1.25	ELU5	-27211.87	228.47	36.60	-40.84	-340.11	-10508.18
<b>A7-8</b>	2.50	ELU5	-27201.59	253.98	35.01	-40.84	-384.89	-10809.78



<b>A7-8</b>	0.00	ELS3	-22764.11	169.66	3.41	-32.48	-35.68	-8508.83
<b>A7-8</b>	1.25	ELS3	-22754.51	193.47	3.41	-32.48	-39.95	-8735.82
<b>A7-8</b>	2.50	ELS3	-22744.64	217.95	3.41	-32.48	-44.22	-8993.00
<b>A8-9</b>	0.00	ELU5	-27165.20	-1429.33	35.01	-64.57	-381.62	-10809.78
<b>A8-9</b>	1.25	ELU5	-27155.89	-1401.37	33.40	-64.57	-424.43	-9038.50
<b>A8-9</b>	2.50	ELU5	-27145.65	-1370.61	31.79	-64.57	-465.21	-7303.96
<b>A8-9</b>	0.00	ELS3	-22714.56	-1189.56	3.41	-35.16	-42.13	-8993.00
<b>A8-9</b>	1.25	ELS3	-22705.64	-1162.77	3.41	-35.16	-46.40	-7521.00
<b>A8-9</b>	2.50	ELS3	-22695.80	-1133.20	3.41	-35.16	-50.67	-6084.27
<b>A9-10</b>	0.00	ELU5	-27017.14	-2973.04	31.79	-91.96	-460.58	-7303.96
<b>A9-10</b>	1.25	ELU5	-27008.24	-2939.84	29.81	-91.96	-499.11	-3606.30
<b>A9-10</b>	2.50	ELU5	-26999.15	-2905.97	27.83	-91.96	-535.15	49.42
<b>A9-10</b>	0.00	ELS3	-22589.11	-2472.96	3.41	-38.09	-48.50	-6084.27
<b>A9-10</b>	1.25	ELS3	-22580.56	-2441.11	3.41	-38.09	-52.77	-3011.21
<b>A9-10</b>	2.50	ELS3	-22571.84	-2408.59	3.41	-38.09	-57.04	21.61
<b>D1-2D</b>	0.00	ELU5	119.05	286.10	-0.33	-0.33	0.61	-420.00
<b>D1-2D</b>	0.46	ELU5	119.05	287.21	-0.33	-0.33	0.76	-553.01
<b>D1-2D</b>	0.93	ELU5	119.04	288.31	-0.33	-0.33	0.92	-686.52
<b>D1-2D</b>	1.39	ELU5	119.03	289.40	-0.33	-0.33	1.07	-820.54
<b>D1-2D</b>	1.86	ELU5	119.02	290.48	-0.33	-0.33	1.22	-955.07
<b>D1-2D</b>	2.32	ELU5	119.02	291.56	-0.33	-0.33	1.37	-1090.10
<b>D1-2D</b>	0.00	ELS3	86.92	230.50	-0.08	-0.26	0.17	-351.41
<b>D1-2D</b>	0.46	ELS3	86.91	231.60	-0.08	-0.26	0.21	-458.62
<b>D1-2D</b>	0.93	ELS3	86.90	232.70	-0.08	-0.26	0.24	-566.33
<b>D1-2D</b>	1.39	ELS3	86.90	233.79	-0.08	-0.26	0.28	-674.55
<b>D1-2D</b>	1.86	ELS3	86.89	234.88	-0.08	-0.26	0.32	-783.28
<b>D1-2D</b>	2.32	ELS3	86.88	235.95	-0.08	-0.26	0.36	-892.51
<b>D1-2I</b>	0.00	ELU5	228.04	289.83	-0.15	0.30	0.33	-401.77
<b>D1-2I</b>	0.46	ELU5	228.03	290.94	-0.15	0.30	0.40	-536.50
<b>D1-2I</b>	0.93	ELU5	228.03	292.04	-0.15	0.30	0.47	-671.75
<b>D1-2I</b>	1.39	ELU5	228.02	293.13	-0.15	0.30	0.54	-807.50
<b>D1-2I</b>	1.86	ELU5	228.01	294.21	-0.15	0.30	0.61	-943.76
<b>D1-2I</b>	2.32	ELU5	228.01	295.29	-0.15	0.30	0.67	-1080.51
<b>D1-2I</b>	0.00	ELS3	74.04	233.77	0.07	0.25	-0.13	-357.63
<b>D1-2I</b>	0.46	ELS3	74.03	234.88	0.07	0.25	-0.16	-466.35
<b>D1-2I</b>	0.93	ELS3	74.02	235.98	0.07	0.25	-0.20	-575.59
<b>D1-2I</b>	1.39	ELS3	74.02	237.07	0.07	0.25	-0.23	-685.33
<b>D1-2I</b>	1.86	ELS3	74.01	238.15	0.07	0.25	-0.27	-795.57

<b>D1-2I</b>	2.32	ELS3	74.00	239.23	0.07	0.25	-0.30	-906.32
<b>D2-3D</b>	0.00	ELU5	119.09	280.83	-0.33	-0.33	-0.15	237.65
<b>D2-3D</b>	0.46	ELU5	119.08	281.90	-0.33	-0.33	0.00	107.10
<b>D2-3D</b>	0.93	ELU5	119.07	282.96	-0.33	-0.33	0.16	-23.94
<b>D2-3D</b>	1.39	ELU5	119.07	284.02	-0.33	-0.33	0.31	-155.48
<b>D2-3D</b>	1.86	ELU5	119.06	285.06	-0.33	-0.33	0.46	-287.50
<b>D2-3D</b>	2.32	ELU5	119.05	286.10	-0.33	-0.33	0.61	-420.00
<b>D2-3D</b>	0.00	ELS3	86.95	225.23	-0.08	-0.26	-0.02	177.24
<b>D2-3D</b>	0.46	ELS3	86.95	226.30	-0.08	-0.26	0.02	72.49
<b>D2-3D</b>	0.93	ELS3	86.94	227.36	-0.08	-0.26	0.05	-32.75
<b>D2-3D</b>	1.39	ELS3	86.93	228.41	-0.08	-0.26	0.09	-138.49
<b>D2-3D</b>	1.86	ELS3	86.93	229.46	-0.08	-0.26	0.13	-244.71
<b>D2-3D</b>	2.32	ELS3	86.92	230.50	-0.08	-0.26	0.17	-351.41
<b>D2-3I</b>	0.00	ELU5	228.08	284.56	-0.15	0.30	-0.01	264.53
<b>D2-3I</b>	0.46	ELU5	228.07	285.63	-0.15	0.30	0.06	132.25
<b>D2-3I</b>	0.93	ELU5	228.06	286.69	-0.15	0.30	0.13	-0.52
<b>D2-3I</b>	1.39	ELU5	228.06	287.75	-0.15	0.30	0.20	-133.78
<b>D2-3I</b>	1.86	ELU5	228.05	288.79	-0.15	0.30	0.26	-267.54
<b>D2-3I</b>	2.32	ELU5	228.04	289.83	-0.15	0.30	0.33	-401.77
<b>D2-3I</b>	0.00	ELS3	74.07	228.50	0.07	0.25	0.04	178.62
<b>D2-3I</b>	0.46	ELS3	74.07	229.57	0.07	0.25	0.00	72.35
<b>D2-3I</b>	0.93	ELS3	74.06	230.63	0.07	0.25	-0.03	-34.42
<b>D2-3I</b>	1.39	ELS3	74.05	231.69	0.07	0.25	-0.06	-141.67
<b>D2-3I</b>	1.86	ELS3	74.05	232.73	0.07	0.25	-0.10	-249.41
<b>D2-3I</b>	2.32	ELS3	74.04	233.77	0.07	0.25	-0.13	-357.63
<b>D3-4D</b>	0.00	ELU5	119.12	275.74	-0.33	-0.33	-0.91	883.27
<b>D3-4D</b>	0.46	ELU5	119.11	276.77	-0.33	-0.33	-0.76	755.10
<b>D3-4D</b>	0.93	ELU5	119.11	277.79	-0.33	-0.33	-0.60	626.44
<b>D3-4D</b>	1.39	ELU5	119.10	278.81	-0.33	-0.33	-0.45	497.32
<b>D3-4D</b>	1.86	ELU5	119.09	279.83	-0.33	-0.33	-0.30	367.72
<b>D3-4D</b>	2.32	ELU5	119.09	280.83	-0.33	-0.33	-0.15	237.65
<b>D3-4D</b>	0.00	ELS3	86.99	220.13	-0.08	-0.26	-0.21	693.86
<b>D3-4D</b>	0.46	ELS3	86.98	221.16	-0.08	-0.26	-0.17	591.49
<b>D3-4D</b>	0.93	ELS3	86.97	222.19	-0.08	-0.26	-0.13	488.63
<b>D3-4D</b>	1.39	ELS3	86.97	223.21	-0.08	-0.26	-0.10	385.31
<b>D3-4D</b>	1.86	ELS3	86.96	224.22	-0.08	-0.26	-0.06	281.51
<b>D3-4D</b>	2.32	ELS3	86.95	225.23	-0.08	-0.26	-0.02	177.24
<b>D3-4I</b>	0.00	ELU5	228.11	279.47	-0.15	0.30	-0.35	918.80





D3-4I	0.46	ELU5	228.10	280.50	-0.15	0.30	-0.28	788.90
D3-4I	0.93	ELU5	228.10	281.52	-0.15	0.30	-0.21	658.52
D3-4I	1.39	ELU5	228.09	282.54	-0.15	0.30	-0.15	527.66
D3-4I	1.86	ELU5	228.08	283.56	-0.15	0.30	-0.08	396.33
D3-4I	2.32	ELU5	228.08	284.56	-0.15	0.30	-0.01	264.53
D3-4I	0.00	ELS3	74.11	223.41	0.07	0.25	0.21	702.83
D3-4I	0.46	ELS3	74.10	224.44	0.07	0.25	0.17	598.94
D3-4I	0.93	ELS3	74.09	225.46	0.07	0.25	0.14	494.57
D3-4I	1.39	ELS3	74.09	226.48	0.07	0.25	0.11	389.72
D3-4I	1.86	ELS3	74.08	227.49	0.07	0.25	0.07	284.40
D3-4I	2.32	ELS3	74.07	228.50	0.07	0.25	0.04	178.62
1J5-6D	0.00	ELU5	-610.06	71.95	18.33	-0.19	13.69	42.70
1J5-6D	0.81	ELU5	-610.82	81.11	18.33	-0.19	-1.18	-19.41
1J5-6D	1.62	ELU5	-611.59	90.52	18.33	-0.19	-16.06	-89.04
1J5-6D	0.00	ELS3	-552.30	69.62	16.28	-0.17	12.15	33.49
1J5-6D	0.81	ELS3	-553.05	78.78	16.28	-0.17	-1.06	-26.72
1J5-6D	1.62	ELS3	-553.83	88.19	16.28	-0.17	-14.27	-94.46
1J5-6I	0.00	ELU5	-546.43	69.31	-13.17	0.11	-9.59	43.47
1J5-6I	0.81	ELU5	-547.18	78.47	-13.17	0.11	1.10	-16.48
1J5-6I	1.62	ELU5	-547.96	87.88	-13.17	0.11	11.79	-83.97
1J5-6I	0.00	ELS3	-544.94	68.97	-15.34	0.16	-11.42	33.97
1J5-6I	0.81	ELS3	-545.70	78.13	-15.34	0.16	1.03	-25.71
1J5-6I	1.62	ELS3	-546.47	87.54	-15.34	0.16	13.48	-92.93
1J6-7D	0.00	ELU5	-194.32	-34.88	3.70	-0.14	3.30	-44.28
1J6-7D	1.06	ELU5	-193.36	-23.27	3.70	-0.14	-0.63	-13.42
1J6-7D	2.13	ELU5	-192.44	-12.09	3.70	-0.14	-4.55	5.32
1J6-7D	0.00	ELS3	-180.03	-34.46	3.18	-0.12	2.78	-43.52
1J6-7D	1.06	ELS3	-179.07	-22.85	3.18	-0.12	-0.60	-13.11
1J6-7D	2.13	ELS3	-178.15	-11.67	3.18	-0.12	-3.98	5.19
1J6-7I	0.00	ELU5	-160.95	-33.64	-2.79	0.10	-2.44	-40.69
1J6-7I	1.06	ELU5	-159.99	-22.03	-2.79	0.10	0.52	-11.16
1J6-7I	2.13	ELU5	-159.07	-10.85	-2.79	0.10	3.48	6.27
1J6-7I	0.00	ELS3	-176.85	-34.30	-3.02	0.12	-2.63	-43.12
1J6-7I	1.06	ELS3	-175.89	-22.69	-3.02	0.12	0.57	-12.88
1J6-7I	2.13	ELS3	-174.97	-11.51	-3.02	0.12	3.78	5.25
1T0-1D	0.00	ELU5	2180.34	-210.42	11.34	-0.78	2.93	-217.94
1T0-1D	0.95	ELU5	2180.08	-189.00	11.34	-0.78	-7.84	-28.22
1T0-1D	0.95	ELU5	2180.08	-189.00	11.34	-0.78	-7.84	-28.22

1T0-1D	1.06	ELU5	2180.05	-186.47	11.34	-0.78	-9.12	-7.10
1T0-1D	2.13	ELU5	2179.55	-143.38	11.34	-0.78	-21.16	169.93
1T0-1D	0.00	ELS3	1642.32	-347.07	8.74	-0.61	3.79	-356.74
1T0-1D	0.95	ELS3	1642.06	-325.13	8.74	-0.61	-4.51	-37.45
1T0-1D	0.95	ELS3	1640.05	-154.14	8.74	-0.61	-4.51	-37.45
1T0-1D	1.06	ELS3	1640.02	-151.54	8.74	-0.61	-5.49	-20.25
1T0-1D	2.13	ELS3	1639.73	-127.04	8.74	-0.61	-14.78	127.74
1T0-1I	0.00	ELU5	1786.69	-197.52	-15.04	0.76	-12.63	-304.86
1T0-1I	0.95	ELU5	1786.44	-176.11	-15.04	0.76	1.65	-127.39
1T0-1I	0.95	ELU5	1786.44	-176.11	-15.04	0.76	1.65	-127.39
1T0-1I	1.06	ELU5	1786.41	-173.58	-15.04	0.76	3.34	-107.72
1T0-1I	2.13	ELU5	1786.12	-149.68	-15.04	0.76	19.32	64.01
1T0-1I	0.00	ELS3	1590.88	-271.38	-9.63	0.62	-5.01	-315.87
1T0-1I	0.95	ELS3	1590.70	-255.61	-9.63	0.62	4.13	-65.56
1T0-1I	0.95	ELS3	1589.35	-141.61	-9.63	0.62	4.13	-65.56
1T0-1I	1.06	ELS3	1589.33	-139.75	-9.63	0.62	5.22	-49.73
1T0-1I	2.13	ELS3	1589.13	-122.16	-9.63	0.62	15.45	89.40
1T1-2D	0.00	ELU5	1009.22	-111.77	45.33	-0.67	56.75	10.10
1T1-2D	0.83	ELU5	1008.78	-75.15	45.33	-0.67	19.35	87.20
1T1-2D	0.83	ELU5	1008.78	-75.15	45.33	-0.67	19.35	87.20
1T1-2D	1.06	ELU5	1008.66	-64.61	45.33	-0.67	8.59	103.79
1T1-2D	2.00	ELU5	1008.17	-23.03	45.33	-0.67	-33.91	144.87
1T1-2D	2.00	ELU5	1008.17	-22.82	45.33	-0.67	-33.91	144.87
1T1-2D	2.13	ELU5	1008.10	-17.28	45.33	-0.67	-39.58	147.38
1T1-2D	0.00	ELS3	860.27	-178.46	35.71	-0.53	44.19	-8.33
1T1-2D	0.83	ELS3	860.04	-159.46	35.71	-0.53	14.73	131.06
1T1-2D	0.83	ELS3	858.03	11.52	35.71	-0.53	14.73	131.06
1T1-2D	1.06	ELS3	857.98	15.77	35.71	-0.53	6.25	127.79
1T1-2D	2.00	ELS3	857.80	31.22	35.71	-0.53	-27.23	105.76
1T1-2D	2.00	ELS3	857.80	31.42	35.71	-0.53	-27.23	105.76
1T1-2D	2.13	ELS3	857.78	33.48	35.71	-0.53	-31.69	101.70
1T1-2I	0.00	ELU5	700.86	-108.36	-40.75	0.62	-48.86	-82.05
1T1-2I	0.83	ELU5	700.65	-89.83	-40.75	0.62	-15.23	-0.30
1T1-2I	0.83	ELU5	700.65	-89.83	-40.75	0.62	-15.23	-0.30
1T1-2I	1.06	ELU5	700.58	-84.50	-40.75	0.62	-5.56	20.40
1T1-2I	2.00	ELU5	700.34	-63.49	-40.75	0.62	32.65	89.77
1T1-2I	2.00	ELU5	700.33	-63.28	-40.75	0.62	32.65	89.77
1T1-2I	2.13	ELU5	700.30	-60.48	-40.75	0.62	37.74	97.50





1T1-2I	0.00	ELS3	740.81	-142.59	-35.50	0.53	-43.74	-32.88
1T1-2I	0.83	ELS3	740.65	-128.96	-35.50	0.53	-14.45	79.13
1T1-2I	0.83	ELS3	739.31	-14.96	-35.50	0.53	-14.45	79.13
1T1-2I	1.06	ELS3	739.26	-11.04	-35.50	0.53	-6.02	82.22
1T1-2I	2.00	ELS3	739.08	4.40	-35.50	0.53	27.27	85.33
1T1-2I	2.00	ELS3	739.08	4.61	-35.50	0.53	27.27	85.33
1T1-2I	2.13	ELS3	739.05	6.67	-35.50	0.53	31.70	84.63
1T2-3D	0.00	ELU5	332.62	24.38	14.46	-0.36	11.27	105.04
1T2-3D	1.06	ELU5	332.27	54.59	14.46	-0.36	-4.09	64.23
1T2-3D	2.00	ELU5	331.93	83.43	14.46	-0.36	-17.64	-0.46
1T2-3D	2.00	ELU5	331.54	116.23	14.46	-0.36	-17.64	-0.46
1T2-3D	2.13	ELU5	331.51	119.20	14.46	-0.36	-19.45	-15.20
1T2-3D	0.00	ELS3	219.01	43.40	12.68	-0.30	10.62	96.51
1T2-3D	1.06	ELS3	218.78	62.76	12.68	-0.30	-2.85	40.45
1T2-3D	2.00	ELS3	218.57	80.48	12.68	-0.30	-14.74	-26.70
1T2-3D	2.00	ELS3	218.57	80.48	12.68	-0.30	-14.74	-26.70
1T2-3D	2.13	ELS3	218.56	81.96	12.68	-0.30	-16.32	-36.88
1T2-3I	0.00	ELU5	198.32	-15.67	-12.18	0.29	-10.35	30.93
1T2-3I	1.06	ELU5	197.96	14.53	-12.18	0.29	2.58	32.69
1T2-3I	2.00	ELU5	197.62	43.38	-12.18	0.29	14.00	5.54
1T2-3I	2.00	ELU5	197.62	43.38	-12.18	0.29	14.00	5.54
1T2-3I	2.13	ELU5	197.59	46.35	-12.18	0.29	15.52	-0.09
1T2-3I	0.00	ELS3	158.99	27.62	-12.04	0.29	-10.00	64.27
1T2-3I	1.06	ELS3	158.76	46.99	-12.04	0.29	2.79	24.97
1T2-3I	2.00	ELS3	158.55	64.70	-12.04	0.29	14.08	-27.39
1T2-3I	2.00	ELS3	158.55	64.70	-12.04	0.29	14.08	-27.39
1T2-3I	2.13	ELS3	158.53	66.19	-12.04	0.29	15.59	-35.59
1T3-4D	0.00	ELU5	-508.71	174.42	11.61	-0.18	12.09	120.41
1T3-4D	0.81	ELU5	-508.73	176.22	11.61	-0.18	2.66	-22.04
1T3-4D	1.38	ELU5	-508.74	177.45	11.61	-0.18	-3.87	-121.51
1T3-4D	1.38	ELU5	-509.92	277.75	11.61	-0.18	-3.87	-121.51
1T3-4D	1.63	ELU5	-509.93	278.29	11.61	-0.18	-6.77	-191.02
1T3-4D	0.00	ELS3	-517.31	140.42	10.77	-0.16	10.57	70.08
1T3-4D	0.81	ELS3	-517.33	142.22	10.77	-0.16	1.82	-44.75
1T3-4D	1.38	ELS3	-517.35	143.45	10.77	-0.16	-4.24	-125.10
1T3-4D	1.38	ELS3	-518.53	243.75	10.77	-0.16	-4.24	-125.10
1T3-4D	1.63	ELS3	-518.53	244.29	10.77	-0.16	-6.93	-186.11
1T3-4I	0.00	ELU5	-391.96	88.96	-5.60	0.12	-6.77	75.42

1T3-4I	0.81	ELU5	-391.98	90.75	-5.60	0.12	-2.21	2.41
1T3-4I	1.38	ELU5	-391.99	91.98	-5.60	0.12	0.94	-48.99
1T3-4I	1.38	ELU5	-393.17	192.28	-5.60	0.12	0.94	-48.99
1T3-4I	1.63	ELU5	-393.18	192.82	-5.60	0.12	2.34	-97.13
1T3-4I	0.00	ELS3	-506.59	120.81	-9.38	0.15	-9.49	57.97
1T3-4I	0.81	ELS3	-506.61	122.61	-9.38	0.15	-1.86	-40.93
1T3-4I	1.38	ELS3	-506.63	123.84	-9.38	0.15	3.41	-110.24
1T3-4I	1.38	ELS3	-507.81	224.14	-9.38	0.15	3.41	-110.24
1T3-4I	1.63	ELS3	-507.81	224.68	-9.38	0.15	5.76	-166.35
2J5-6D	0.00	ELU5	-88.11	71.32	12.31	-0.10	8.90	3.06
2J5-6D	0.81	ELU5	-88.87	80.48	12.31	-0.10	-1.09	-58.52
2J5-6D	1.62	ELU5	-89.64	89.89	12.31	-0.10	-11.08	-127.65
2J5-6D	0.00	ELS3	-120.91	69.64	10.66	-0.09	7.81	2.16
2J5-6D	0.81	ELS3	-121.67	78.80	10.66	-0.09	-0.84	-58.06
2J5-6D	1.62	ELS3	-122.44	88.21	10.66	-0.09	-9.49	-125.83
2J5-6I	0.00	ELU5	-86.05	70.86	-6.81	0.02	-4.82	7.03
2J5-6I	0.81	ELU5	-86.80	80.02	-6.81	0.02	0.70	-54.18
2J5-6I	1.62	ELU5	-87.58	89.43	-6.81	0.02	6.23	-122.93
2J5-6I	0.00	ELS3	-122.08	69.82	-9.77	0.08	-7.13	2.26
2J5-6I	0.81	ELS3	-122.83	78.98	-9.77	0.08	0.80	-58.11
2J5-6I	1.62	ELS3	-123.61	88.39	-9.77	0.08	8.73	-126.02
2J6-7D	0.00	ELU5	-50.86	-29.15	1.10	-0.02	0.85	-33.20
2J6-7D	1.06	ELU5	-49.90	-17.54	1.10	-0.02	-0.32	-8.43
2J6-7D	2.13	ELU5	-48.98	-6.35	1.10	-0.02	-1.49	4.22
2J6-7D	0.00	ELS3	-60.00	-29.44	1.03	-0.03	0.84	-33.72
2J6-7D	1.06	ELS3	-59.04	-17.82	1.03	-0.03	-0.26	-8.65
2J6-7D	2.13	ELS3	-58.12	-6.64	1.03	-0.03	-1.36	4.31
2J6-7I	0.00	ELU5	-33.90	-28.88	-0.07	-0.02	-0.01	-31.75
2J6-7I	1.06	ELU5	-32.95	-17.27	-0.07	-0.02	0.06	-7.27
2J6-7I	2.13	ELU5	-32.03	-6.09	-0.07	-0.02	0.13	5.10
2J6-7I	0.00	ELS3	-59.94	-29.46	-0.87	0.02	-0.69	-33.73
2J6-7I	1.06	ELS3	-58.98	-17.84	-0.87	0.02	0.23	-8.64
2J6-7I	2.13	ELS3	-58.06	-6.66	-0.87	0.02	1.15	4.34
2T0-1D	0.00	ELU5	-1397.24	-167.63	-45.91	0.61	-49.65	-461.49
2T0-1D	1.06	ELU5	-1397.52	-143.69	-45.91	0.61	-0.88	-296.10
2T0-1D	2.13	ELU5	-1398.03	-100.59	-45.91	0.61	47.90	-164.53
2T0-1D	0.00	ELS3	-1209.63	-155.88	-38.62	0.51	-43.02	-411.28
2T0-1D	1.06	ELS3	-1209.92	-131.34	-38.62	0.51	-1.99	-258.69



2T0-1D	2.13	ELS3	-1210.21	-106.84	-38.62	0.51	39.05	-132.16
2T0-1I	0.00	ELU5	-1461.30	-132.96	49.00	-0.64	56.30	-453.68
2T0-1I	1.06	ELU5	-1461.59	-109.02	49.00	-0.64	4.23	-325.13
2T0-1I	2.13	ELU5	-1461.87	-85.12	49.00	-0.64	-47.83	-222.00
2T0-1I	0.00	ELS3	-1230.86	-129.47	38.53	-0.50	43.11	-394.53
2T0-1I	1.06	ELS3	-1231.07	-111.83	38.53	-0.50	2.18	-266.34
2T0-1I	2.13	ELS3	-1231.28	-94.24	38.53	-0.50	-38.76	-156.87
2T1-2D	0.00	ELU5	834.01	-58.96	-31.89	0.37	-37.59	-15.69
2T1-2D	1.06	ELU5	833.46	-11.80	-31.89	0.37	-3.71	21.89
2T1-2D	2.00	ELU5	832.97	29.78	-31.89	0.37	26.19	13.45
2T1-2D	2.00	ELU5	832.97	29.99	-31.89	0.37	26.19	13.45
2T1-2D	2.13	ELU5	832.90	35.53	-31.89	0.37	30.17	9.36
2T1-2D	0.00	ELS3	570.56	-28.98	-26.05	0.31	-29.89	-37.04
2T1-2D	1.06	ELS3	570.29	-5.75	-26.05	0.31	-2.22	-19.13
2T1-2D	2.00	ELS3	570.11	9.70	-26.05	0.31	22.20	-20.98
2T1-2D	2.00	ELS3	570.11	9.91	-26.05	0.31	22.20	-20.98
2T1-2D	2.13	ELS3	570.08	11.96	-26.05	0.31	25.46	-22.35
2T1-2I	0.00	ELU5	650.71	-38.34	33.37	-0.42	36.86	-55.19
2T1-2I	1.06	ELU5	650.43	-14.48	33.37	-0.42	1.40	-27.13
2T1-2I	2.00	ELU5	650.18	6.53	33.37	-0.42	-29.89	-23.40
2T1-2I	2.00	ELU5	650.18	6.74	33.37	-0.42	-29.89	-23.40
2T1-2I	2.13	ELU5	650.15	9.54	33.37	-0.42	-34.06	-24.42
2T1-2I	0.00	ELS3	529.25	-26.24	26.12	-0.31	29.88	-48.28
2T1-2I	1.06	ELS3	529.05	-8.70	26.12	-0.31	2.13	-29.72
2T1-2I	2.00	ELS3	528.87	6.75	26.12	-0.31	-22.36	-28.81
2T1-2I	2.00	ELS3	528.86	6.96	26.12	-0.31	-22.36	-28.81
2T1-2I	2.13	ELS3	528.84	9.02	26.12	-0.31	-25.63	-29.81
2T2-3D	0.00	ELU5	1032.90	49.19	-6.26	0.08	-3.08	217.76
2T2-3D	1.06	ELU5	1032.55	79.39	-6.26	0.08	3.57	150.60
2T2-3D	2.00	ELU5	1032.21	108.23	-6.26	0.08	9.44	62.65
2T2-3D	2.00	ELU5	1031.82	141.04	-6.26	0.08	9.44	62.65
2T2-3D	2.13	ELU5	1031.79	144.01	-6.26	0.08	10.22	44.82
2T2-3D	0.00	ELS3	725.57	46.53	-5.16	0.06	-2.99	152.90
2T2-3D	1.06	ELS3	725.34	65.90	-5.16	0.06	2.49	93.51
2T2-3D	2.00	ELS3	725.13	83.61	-5.16	0.06	7.33	23.42
2T2-3D	2.00	ELS3	725.13	83.61	-5.16	0.06	7.33	23.42
2T2-3D	2.13	ELS3	725.11	85.10	-5.16	0.06	7.97	12.86
2T2-3I	0.00	ELU5	866.96	28.94	9.47	-0.12	7.82	157.34

2T2-3I	1.06	ELU5	866.61	59.14	9.47	-0.12	-2.24	111.70
2T2-3I	2.00	ELU5	866.27	87.99	9.47	-0.12	-11.12	42.73
2T2-3I	2.00	ELU5	866.27	87.99	9.47	-0.12	-11.12	42.73
2T2-3I	2.13	ELU5	866.23	90.96	9.47	-0.12	-12.30	31.52
2T2-3I	0.00	ELS3	692.18	39.36	5.56	-0.07	3.50	136.50
2T2-3I	1.06	ELS3	691.95	58.73	5.56	-0.07	-2.41	84.73
2T2-3I	2.00	ELS3	691.74	76.44	5.56	-0.07	-7.62	21.37
2T2-3I	2.00	ELS3	691.74	76.44	5.56	-0.07	-7.62	21.37
2T2-3I	2.13	ELS3	691.73	77.93	5.56	-0.07	-8.32	11.70
2T3-4D	0.00	ELU5	862.25	126.41	-12.50	-0.02	-10.49	232.68
2T3-4D	0.81	ELU5	862.23	128.21	-12.50	-0.02	-0.33	129.23
2T3-4D	1.38	ELU5	862.22	129.44	-12.50	-0.02	6.70	56.77
2T3-4D	1.38	ELU5	861.04	229.74	-12.50	-0.02	6.70	56.77
2T3-4D	1.63	ELU5	861.03	230.28	-12.50	-0.02	9.83	-0.74
2T3-4D	0.00	ELS3	629.87	79.25	-9.10	-0.02	-7.52	153.76
2T3-4D	0.81	ELS3	629.85	81.05	-9.10	-0.02	-0.13	88.63
2T3-4D	1.38	ELS3	629.83	82.28	-9.10	-0.02	4.99	42.70
2T3-4D	1.38	ELS3	628.65	182.58	-9.10	-0.02	4.99	42.70
2T3-4D	1.63	ELS3	628.64	183.12	-9.10	-0.02	7.27	-3.02
2T3-4I	0.00	ELU5	775.35	79.16	16.16	-0.03	12.60	175.66
2T3-4I	0.81	ELU5	775.33	80.95	16.16	-0.03	-0.53	110.61
2T3-4I	1.38	ELU5	775.32	82.18	16.16	-0.03	-9.62	64.73
2T3-4I	1.38	ELU5	774.14	182.48	16.16	-0.03	-9.62	64.73
2T3-4I	1.63	ELU5	774.13	183.02	16.16	-0.03	-13.66	19.03
2T3-4I	0.00	ELS3	608.23	72.86	10.00	0.02	8.17	142.66
2T3-4I	0.81	ELS3	608.20	74.65	10.00	0.02	0.04	82.73
2T3-4I	1.38	ELS3	608.19	75.88	10.00	0.02	-5.58	40.39
2T3-4I	1.38	ELS3	607.01	176.18	10.00	0.02	-5.58	40.39
2T3-4I	1.63	ELS3	607.00	176.72	10.00	0.02	-8.08	-3.73
3J5-6D	0.00	ELU5	-63.23	45.02	-12.14	0.29	-9.52	-4.86
3J5-6D	0.81	ELU5	-63.98	54.17	-12.14	0.29	0.33	-45.10
3J5-6D	1.62	ELU5	-64.76	63.58	-12.14	0.29	10.18	-92.87
3J5-6D	0.00	ELS3	-107.34	48.76	-9.72	0.23	-7.64	-4.26
3J5-6D	0.81	ELS3	-108.09	57.92	-9.72	0.23	0.24	-47.54
3J5-6D	1.62	ELS3	-108.87	67.33	-9.72	0.23	8.13	-98.35
3J5-6I	0.00	ELU5	-57.23	46.17	16.88	-0.37	13.36	-0.38
3J5-6I	0.81	ELU5	-57.98	55.33	16.88	-0.37	-0.34	-41.55
3J5-6I	1.62	ELU5	-58.75	64.74	16.88	-0.37	-14.03	-90.26



3J5-6I	0.00	ELS3	-109.89	49.11	10.32	-0.24	8.13	-4.27
3J5-6I	0.81	ELS3	-110.65	58.27	10.32	-0.24	-0.25	-47.83
3J5-6I	1.62	ELS3	-111.42	67.68	10.32	-0.24	-8.63	-98.92
3J6-7D	0.00	ELU5	-55.13	-30.68	-2.42	0.12	-2.29	-38.09
3J6-7D	1.06	ELU5	-54.17	-19.07	-2.42	0.12	0.27	-11.70
3J6-7D	2.13	ELU5	-53.25	-7.89	-2.42	0.12	2.84	2.58
3J6-7D	0.00	ELS3	-64.42	-30.69	-1.94	0.09	-1.88	-37.74
3J6-7D	1.06	ELS3	-63.47	-19.08	-1.94	0.09	0.18	-11.33
3J6-7D	2.13	ELS3	-62.55	-7.90	-1.94	0.09	2.24	2.96
3J6-7I	0.00	ELU5	-42.24	-30.35	3.45	-0.16	3.32	-36.43
3J6-7I	1.06	ELU5	-41.29	-18.74	3.45	-0.16	-0.35	-10.39
3J6-7I	2.13	ELU5	-40.36	-7.55	3.45	-0.16	-4.02	3.54
3J6-7I	0.00	ELS3	-65.23	-30.74	2.08	-0.10	2.01	-37.81
3J6-7I	1.06	ELS3	-64.27	-19.13	2.08	-0.10	-0.19	-11.36
3J6-7I	2.13	ELS3	-63.35	-7.94	2.08	-0.10	-2.40	2.99
3T0-1D	0.00	ELU5	624.98	-54.87	20.92	-0.37	20.54	249.98
3T0-1D	1.06	ELU5	624.70	-30.93	20.92	-0.37	-1.68	295.55
3T0-1D	2.13	ELU5	624.19	12.17	20.92	-0.37	-23.90	307.32
3T0-1D	0.00	ELS3	372.53	-42.76	16.33	-0.29	16.72	176.83
3T0-1D	1.06	ELS3	372.24	-18.22	16.33	-0.29	-0.62	209.22
3T0-1D	2.13	ELS3	371.96	6.28	16.33	-0.29	-17.97	215.56
3T0-1I	0.00	ELU5	544.88	-11.25	-18.90	0.33	-20.42	282.29
3T0-1I	1.06	ELU5	544.60	12.69	-18.90	0.33	-0.34	281.52
3T0-1I	2.13	ELU5	544.32	36.59	-18.90	0.33	19.74	255.33
3T0-1I	0.00	ELS3	356.71	-23.04	-16.19	0.29	-16.68	189.47
3T0-1I	1.06	ELS3	356.50	-5.40	-16.19	0.29	0.52	204.58
3T0-1I	2.13	ELS3	356.29	12.19	-16.19	0.29	17.72	200.96
3T1-2D	0.00	ELU5	-121.82	-22.47	-10.32	0.05	-10.76	21.11
3T1-2D	1.06	ELU5	-122.37	24.69	-10.32	0.05	0.21	19.92
3T1-2D	2.00	ELU5	-122.86	66.27	-10.32	0.05	9.89	-22.72
3T1-2D	2.00	ELU5	-122.86	66.48	-10.32	0.05	9.89	-22.72
3T1-2D	2.13	ELU5	-122.93	72.02	-10.32	0.05	11.18	-31.37
3T1-2D	0.00	ELS3	-274.18	1.53	-9.10	0.05	-10.12	-15.90
3T1-2D	1.06	ELS3	-274.46	24.77	-9.10	0.05	-0.46	-30.41
3T1-2D	2.00	ELS3	-274.64	40.21	-9.10	0.05	8.07	-60.87
3T1-2D	2.00	ELS3	-274.64	40.42	-9.10	0.05	8.07	-60.87
3T1-2D	2.13	ELS3	-274.67	42.48	-9.10	0.05	9.21	-66.05
3T1-2I	0.00	ELU5	-289.60	10.17	12.84	-0.08	15.04	-4.25

3T1-2I	1.06	ELU5	-289.88	34.03	12.84	-0.08	1.39	-27.74
3T1-2I	2.00	ELU5	-290.13	55.04	12.84	-0.08	-10.64	-69.49
3T1-2I	2.00	ELU5	-290.13	55.25	12.84	-0.08	-10.64	-69.49
3T1-2I	2.13	ELU5	-290.17	58.05	12.84	-0.08	-12.25	-76.57
3T1-2I	0.00	ELS3	-299.03	5.45	9.28	-0.05	10.40	-21.80
3T1-2I	1.06	ELS3	-299.24	23.00	9.28	-0.05	0.54	-36.91
3T1-2I	2.00	ELS3	-299.42	38.44	9.28	-0.05	-8.16	-65.71
3T1-2I	2.00	ELS3	-299.42	38.65	9.28	-0.05	-8.16	-65.71
3T1-2I	2.13	ELS3	-299.44	40.71	9.28	-0.05	-9.32	-70.67
3T2-3D	0.00	ELU5	94.58	69.76	-20.17	0.24	-23.15	78.38
3T2-3D	1.06	ELU5	94.22	99.96	-20.17	0.24	-1.72	-10.63
3T2-3D	2.00	ELU5	93.89	128.81	-20.17	0.24	17.19	-117.87
3T2-3D	2.00	ELU5	93.50	161.61	-20.17	0.24	17.19	-117.87
3T2-3D	2.13	ELU5	93.46	164.58	-20.17	0.24	19.71	-138.28
3T2-3D	0.00	ELS3	-83.83	56.22	-16.50	0.20	-18.60	21.61
3T2-3D	1.06	ELS3	-84.06	75.59	-16.50	0.20	-1.07	-48.08
3T2-3D	2.00	ELS3	-84.26	93.30	-16.50	0.20	14.39	-127.25
3T2-3D	2.00	ELS3	-84.26	93.30	-16.50	0.20	14.39	-127.25
3T2-3D	2.13	ELS3	-84.28	94.79	-16.50	0.20	16.45	-139.02
3T2-3I	0.00	ELU5	-102.88	60.70	21.30	-0.27	23.39	26.31
3T2-3I	1.06	ELU5	-103.24	90.91	21.30	-0.27	0.76	-53.08
3T2-3I	2.00	ELU5	-103.58	119.75	21.30	-0.27	-19.20	-151.83
3T2-3I	2.00	ELU5	-103.58	119.75	21.30	-0.27	-19.20	-151.83
3T2-3I	2.13	ELU5	-103.61	122.72	21.30	-0.27	-21.87	-167.00
3T2-3I	0.00	ELS3	-106.86	52.83	16.60	-0.20	18.67	12.66
3T2-3I	1.06	ELS3	-107.08	72.20	16.60	-0.20	1.04	-53.42
3T2-3I	2.00	ELS3	-107.29	89.91	16.60	-0.20	-14.53	-129.41
3T2-3I	2.00	ELS3	-107.29	89.91	16.60	-0.20	-14.53	-129.41
3T2-3I	2.13	ELS3	-107.31	91.40	16.60	-0.20	-16.60	-140.77
3T3-4D	0.00	ELU5	-82.58	209.81	-36.50	0.22	-26.57	104.99
3T3-4D	0.81	ELU5	-82.60	211.61	-36.50	0.22	3.08	-66.22
3T3-4D	1.38	ELU5	-82.62	212.84	-36.50	0.22	23.61	-185.59
3T3-4D	1.38	ELU5	-83.80	313.14	-36.50	0.22	23.61	-185.59
3T3-4D	1.63	ELU5	-83.80	313.68	-36.50	0.22	32.74	-263.95
3T3-4D	0.00	ELS3	-147.93	140.87	-29.97	0.18	-22.04	42.42
3T3-4D	0.81	ELS3	-147.96	142.67	-29.97	0.18	2.31	-72.78
3T3-4D	1.38	ELS3	-147.97	143.90	-29.97	0.18	19.17	-153.37
3T3-4D	1.38	ELS3	-149.15	244.20	-29.97	0.18	19.17	-153.37



3T3-4D	1.63	ELS3	-149.16	244.74	-29.97	0.18	26.66	-214.50
3T3-4I	0.00	ELU5	-248.93	180.53	41.29	-0.25	30.81	49.41
3T3-4I	0.81	ELU5	-248.95	182.33	41.29	-0.25	-2.74	-98.01
3T3-4I	1.38	ELU5	-248.97	183.56	41.29	-0.25	-25.96	-200.91
3T3-4I	1.38	ELU5	-250.15	283.85	41.29	-0.25	-25.96	-200.91
3T3-4I	1.63	ELU5	-250.15	284.40	41.29	-0.25	-36.29	-271.95
3T3-4I	0.00	ELS3	-171.16	138.60	30.51	-0.18	22.48	34.89
3T3-4I	0.81	ELS3	-171.18	140.40	30.51	-0.18	-2.31	-78.45
3T3-4I	1.38	ELS3	-171.20	141.63	30.51	-0.18	-19.47	-157.77
3T3-4I	1.38	ELS3	-172.38	241.93	30.51	-0.18	-19.47	-157.77
3T3-4I	1.63	ELS3	-172.38	242.47	30.51	-0.18	-27.10	-218.33
4J5-6D	0.00	ELU5	-369.90	68.02	-20.52	0.36	-16.18	-34.92
4J5-6D	0.81	ELU5	-370.66	77.18	-20.52	0.36	0.48	-93.83
4J5-6D	1.62	ELU5	-371.43	86.59	-20.52	0.36	17.13	-160.28
4J5-6D	0.00	ELS3	-362.22	67.43	-16.88	0.29	-13.25	-28.31
4J5-6D	0.81	ELS3	-362.97	76.59	-16.88	0.29	0.45	-86.74
4J5-6D	1.62	ELS3	-363.75	86.00	-16.88	0.29	14.15	-152.71
4J5-6I	0.00	ELU5	-380.31	69.81	24.62	-0.42	19.25	-31.06
4J5-6I	0.81	ELU5	-381.06	78.97	24.62	-0.42	-0.74	-91.42
4J5-6I	1.62	ELU5	-381.83	88.38	24.62	-0.42	-20.72	-159.32
4J5-6I	0.00	ELS3	-363.49	67.59	17.29	-0.30	13.56	-28.27
4J5-6I	0.81	ELS3	-364.25	76.75	17.29	-0.30	-0.47	-86.83
4J5-6I	1.62	ELS3	-365.02	86.16	17.29	-0.30	-14.51	-152.92
4J6-7D	0.00	ELU5	-141.48	-33.65	-3.84	0.17	-3.46	-45.77
4J6-7D	1.06	ELU5	-140.53	-22.04	-3.84	0.17	0.62	-16.22
4J6-7D	2.13	ELU5	-139.60	-10.85	-3.84	0.17	4.70	1.21
4J6-7D	0.00	ELS3	-136.40	-33.22	-3.13	0.13	-2.79	-44.23
4J6-7D	1.06	ELS3	-135.44	-21.61	-3.13	0.13	0.53	-15.14
4J6-7D	2.13	ELS3	-134.52	-10.42	-3.13	0.13	3.86	1.83
4J6-7I	0.00	ELU5	-131.03	-33.37	4.65	-0.20	4.11	-44.20
4J6-7I	1.06	ELU5	-130.08	-21.76	4.65	-0.20	-0.83	-14.96
4J6-7I	2.13	ELU5	-129.15	-10.57	4.65	-0.20	-5.77	2.18
4J6-7I	0.00	ELS3	-136.70	-33.23	3.22	-0.14	2.86	-44.23
4J6-7I	1.06	ELS3	-135.74	-21.62	3.22	-0.14	-0.55	-15.13
4J6-7I	2.13	ELS3	-134.82	-10.44	3.22	-0.14	-3.97	1.87
4T0-1D	0.00	ELU5	319.89	-88.98	-19.61	0.28	-20.75	133.53
4T0-1D	1.06	ELU5	319.60	-65.04	-19.61	0.28	0.08	215.35
4T0-1D	2.13	ELU5	319.10	-21.95	-19.61	0.28	20.91	263.36

4T0-1D	0.00	ELS3	98.44	-61.81	-16.55	0.24	-18.02	80.75
4T0-1D	1.06	ELS3	98.15	-37.27	-16.55	0.24	-0.44	133.38
4T0-1D	2.13	ELS3	97.86	-12.77	-16.55	0.24	17.14	159.96
4T0-1I	0.00	ELU5	247.66	-40.83	21.15	-0.31	23.64	160.95
4T0-1I	1.06	ELU5	247.38	-16.88	21.15	-0.31	1.18	191.61
4T0-1I	2.13	ELU5	247.10	7.02	21.15	-0.31	-21.29	196.84
4T0-1I	0.00	ELS3	82.03	-44.78	16.62	-0.24	18.17	89.61
4T0-1I	1.06	ELS3	81.82	-27.15	16.62	-0.24	0.51	127.82
4T0-1I	2.13	ELS3	81.61	-9.55	16.62	-0.24	-17.16	147.31
4T1-2D	0.00	ELU5	884.84	2.86	-3.86	0.00	-4.77	351.71
4T1-2D	1.06	ELU5	884.28	50.03	-3.86	0.00	-0.67	323.61
4T1-2D	2.00	ELU5	883.79	91.61	-3.86	0.00	2.94	257.22
4T1-2D	2.00	ELU5	883.79	91.81	-3.86	0.00	2.94	257.22
4T1-2D	2.13	ELU5	883.73	97.35	-3.86	0.00	3.43	245.39
4T1-2D	0.00	ELS3	510.78	22.60	-3.52	0.01	-3.93	248.24
4T1-2D	1.06	ELS3	510.50	45.84	-3.52	0.01	-0.19	211.35
4T1-2D	2.00	ELS3	510.32	61.29	-3.52	0.01	3.11	161.13
4T1-2D	2.00	ELS3	510.32	61.49	-3.52	0.01	3.11	161.13
4T1-2D	2.13	ELS3	510.30	63.55	-3.52	0.01	3.55	153.32
4T1-2I	0.00	ELU5	690.54	40.16	5.04	-0.03	5.00	331.75
4T1-2I	1.06	ELU5	690.25	64.01	5.04	-0.03	-0.36	276.40
4T1-2I	2.00	ELU5	690.01	85.03	5.04	-0.03	-5.09	206.54
4T1-2I	2.00	ELU5	690.00	85.23	5.04	-0.03	-5.09	206.54
4T1-2I	2.13	ELU5	689.97	88.03	5.04	-0.03	-5.72	195.71
4T1-2I	0.00	ELS3	482.57	26.61	3.61	-0.01	3.98	242.10
4T1-2I	1.06	ELS3	482.36	44.16	3.61	-0.01	0.14	204.50
4T1-2I	2.00	ELS3	482.18	59.60	3.61	-0.01	-3.24	155.86
4T1-2I	2.00	ELS3	482.18	59.81	3.61	-0.01	-3.24	155.86
4T1-2I	2.13	ELS3	482.15	61.87	3.61	-0.01	-3.69	148.26
4T2-3D	0.00	ELU5	306.48	88.18	-4.45	0.00	-4.69	216.12
4T2-3D	1.06	ELU5	306.12	118.38	-4.45	0.00	0.04	107.54
4T2-3D	2.00	ELU5	305.78	147.23	-4.45	0.00	4.21	-16.97
4T2-3D	2.00	ELU5	305.40	180.03	-4.45	0.00	4.21	-16.97
4T2-3D	2.13	ELU5	305.36	183.00	-4.45	0.00	4.76	-39.68
4T2-3D	0.00	ELS3	56.68	69.40	-4.06	0.01	-4.57	126.73
4T2-3D	1.06	ELS3	56.45	88.77	-4.06	0.01	-0.25	43.04
4T2-3D	2.00	ELS3	56.25	106.48	-4.06	0.01	3.56	-48.49
4T2-3D	2.00	ELS3	56.25	106.48	-4.06	0.01	3.56	-48.49





4T2-3D	2.13	ELS3	56.23	107.97	-4.06	0.01	4.07	-61.92
4T2-3I	0.00	ELU5	102.92	84.88	6.19	-0.03	7.27	167.59
4T2-3I	1.06	ELU5	102.57	115.08	6.19	-0.03	0.70	62.52
4T2-3I	2.00	ELU5	102.23	143.93	6.19	-0.03	-5.10	-58.90
4T2-3I	2.00	ELU5	102.23	143.93	6.19	-0.03	-5.10	-58.90
4T2-3I	2.13	ELU5	102.19	146.90	6.19	-0.03	-5.88	-77.09
4T2-3I	0.00	ELS3	34.10	67.23	4.21	-0.01	4.77	119.45
4T2-3I	1.06	ELS3	33.87	86.59	4.21	-0.01	0.29	38.07
4T2-3I	2.00	ELS3	33.67	104.31	4.21	-0.01	-3.66	-51.42
4T2-3I	2.00	ELS3	33.67	104.31	4.21	-0.01	-3.66	-51.42
4T2-3I	2.13	ELS3	33.65	105.79	4.21	-0.01	-4.18	-64.57
4T3-4D	0.00	ELU5	-310.89	223.12	-30.48	0.15	-23.54	95.25
4T3-4D	0.81	ELU5	-310.91	224.92	-30.48	0.15	1.23	-86.77
4T3-4D	1.38	ELU5	-310.93	226.15	-30.48	0.15	18.38	-213.63
4T3-4D	1.38	ELU5	-312.11	326.45	-30.48	0.15	18.38	-213.63
4T3-4D	1.63	ELU5	-312.11	326.99	-30.48	0.15	26.00	-295.32
4T3-4D	0.00	ELS3	-378.41	152.15	-24.76	0.13	-19.01	26.71
4T3-4D	0.81	ELS3	-378.43	153.95	-24.76	0.13	1.11	-97.64
4T3-4D	1.38	ELS3	-378.45	155.18	-24.76	0.13	15.03	-184.58
4T3-4D	1.38	ELS3	-379.63	255.48	-24.76	0.13	15.03	-184.58
4T3-4D	1.63	ELS3	-379.63	256.02	-24.76	0.13	21.22	-248.53
4T3-4I	0.00	ELU5	-467.87	197.00	33.61	-0.18	25.52	44.10
4T3-4I	0.81	ELU5	-467.89	198.80	33.61	-0.18	-1.79	-116.70
4T3-4I	1.38	ELU5	-467.91	200.03	33.61	-0.18	-20.70	-228.87
4T3-4I	1.38	ELU5	-469.09	300.33	33.61	-0.18	-20.70	-228.87
4T3-4I	1.63	ELU5	-469.09	300.87	33.61	-0.18	-29.11	-304.03
4T3-4I	0.00	ELS3	-395.40	150.30	25.10	-0.13	19.25	21.78
4T3-4I	0.81	ELS3	-395.42	152.09	25.10	-0.13	-1.14	-101.07
4T3-4I	1.38	ELS3	-395.44	153.32	25.10	-0.13	-15.26	-186.96
4T3-4I	1.38	ELS3	-396.62	253.62	25.10	-0.13	-15.26	-186.96
4T3-4I	1.63	ELS3	-396.62	254.16	25.10	-0.13	-21.54	-250.45
5J5-6D	0.00	ELU5	-328.01	65.69	-15.54	0.21	-12.05	-26.84
5J5-6D	0.81	ELU5	-328.76	74.85	-15.54	0.21	0.57	-83.86
5J5-6D	1.62	ELU5	-329.54	84.26	-15.54	0.21	13.18	-148.42
5J5-6D	0.00	ELS3	-330.99	67.38	-12.47	0.17	-9.70	-21.58
5J5-6D	0.81	ELS3	-331.74	76.54	-12.47	0.17	0.42	-79.97
5J5-6D	1.62	ELS3	-332.52	85.95	-12.47	0.17	10.54	-145.89
5J5-6I	0.00	ELU5	-338.84	67.81	17.50	-0.25	13.67	-22.99

5J5-6I	0.81	ELU5	-339.59	76.97	17.50	-0.25	-0.53	-81.73
5J5-6I	1.62	ELU5	-340.37	86.38	17.50	-0.25	-14.73	-148.01
5J5-6I	0.00	ELS3	-332.97	67.54	12.68	-0.17	9.86	-21.49
5J5-6I	0.81	ELS3	-333.72	76.70	12.68	-0.17	-0.42	-80.01
5J5-6I	1.62	ELS3	-334.50	86.11	12.68	-0.17	-10.71	-146.06
5J6-7D	0.00	ELU5	-140.80	-33.73	-3.96	0.15	-3.86	-45.82
5J6-7D	1.06	ELU5	-139.84	-22.11	-3.96	0.15	0.35	-16.19
5J6-7D	2.13	ELU5	-138.92	-10.93	-3.96	0.15	4.56	1.33
5J6-7D	0.00	ELS3	-135.36	-33.30	-3.23	0.12	-3.19	-44.28
5J6-7D	1.06	ELS3	-134.41	-21.69	-3.23	0.12	0.24	-15.10
5J6-7D	2.13	ELS3	-133.49	-10.51	-3.23	0.12	3.68	1.96
5J6-7I	0.00	ELU5	-131.97	-33.51	4.47	-0.17	4.38	-44.40
5J6-7I	1.06	ELU5	-131.02	-21.90	4.47	-0.17	-0.36	-15.01
5J6-7I	2.13	ELU5	-130.10	-10.71	4.47	-0.17	-5.11	2.28
5J6-7I	0.00	ELS3	-135.78	-33.31	3.28	-0.12	3.24	-44.27
5J6-7I	1.06	ELS3	-134.82	-21.70	3.28	-0.12	-0.24	-15.08
5J6-7I	2.13	ELS3	-133.90	-10.52	3.28	-0.12	-3.73	1.99
5T0-1D	0.00	ELU5	918.63	-50.39	12.80	-0.21	13.30	339.61
5T0-1D	1.06	ELU5	918.35	-26.45	12.80	-0.21	-0.29	380.43
5T0-1D	2.13	ELU5	917.84	16.64	12.80	-0.21	-13.89	387.43
5T0-1D	0.00	ELS3	568.25	-26.77	10.13	-0.17	10.80	250.48
5T0-1D	1.06	ELS3	567.96	-2.23	10.13	-0.17	0.04	265.88
5T0-1D	2.13	ELS3	567.67	22.27	10.13	-0.17	-10.72	255.23
5T0-1I	0.00	ELU5	839.79	-0.09	-11.94	0.20	-13.18	374.68
5T0-1I	1.06	ELU5	839.51	23.86	-11.94	0.20	-0.50	362.04
5T0-1I	2.13	ELU5	839.23	47.76	-11.94	0.20	12.19	323.99
5T0-1I	0.00	ELS3	552.30	-10.86	-10.09	0.17	-10.80	258.61
5T0-1I	1.06	ELS3	552.09	6.78	-10.09	0.17	-0.08	260.78
5T0-1I	2.13	ELS3	551.89	24.37	-10.09	0.17	10.64	244.23
5T1-2D	0.00	ELU5	584.81	-1.08	-6.29	0.07	-6.52	266.55
5T1-2D	1.06	ELU5	584.26	46.08	-6.29	0.07	0.16	242.64
5T1-2D	2.00	ELU5	583.77	87.66	-6.29	0.07	6.05	179.94
5T1-2D	2.00	ELU5	583.77	87.87	-6.29	0.07	6.05	179.94
5T1-2D	2.13	ELU5	583.70	93.41	-6.29	0.07	6.84	168.61
5T1-2D	0.00	ELS3	251.08	20.34	-5.35	0.06	-5.84	174.87
5T1-2D	1.06	ELS3	250.81	43.57	-5.35	0.06	-0.16	140.38
5T1-2D	2.00	ELS3	250.62	59.02	-5.35	0.06	4.86	92.28
5T1-2D	2.00	ELS3	250.62	59.23	-5.35	0.06	4.86	92.28





5T1-2D	2.13	ELS3	250.60	61.29	-5.35	0.06	5.52	84.75
5T1-2I	0.00	ELU5	404.80	38.61	7.31	-0.08	8.30	247.30
5T1-2I	1.06	ELU5	404.52	62.47	7.31	-0.08	0.54	193.60
5T1-2I	2.00	ELU5	404.27	83.48	7.31	-0.08	-6.32	125.18
5T1-2I	2.00	ELU5	404.27	83.69	7.31	-0.08	-6.32	125.18
5T1-2I	2.13	ELU5	404.23	86.49	7.31	-0.08	-7.23	114.54
5T1-2I	0.00	ELS3	225.29	24.33	5.42	-0.06	5.95	168.98
5T1-2I	1.06	ELS3	225.09	41.87	5.42	-0.06	0.20	133.80
5T1-2I	2.00	ELS3	224.90	57.32	5.42	-0.06	-4.88	87.30
5T1-2I	2.00	ELS3	224.90	57.53	5.42	-0.06	-4.88	87.30
5T1-2I	2.13	ELS3	224.88	59.59	5.42	-0.06	-5.56	79.98
5T2-3D	0.00	ELU5	537.12	102.46	-7.03	0.07	-7.77	312.44
5T2-3D	1.06	ELU5	536.76	132.66	-7.03	0.07	-0.29	188.68
5T2-3D	2.00	ELU5	536.42	161.51	-7.03	0.07	6.30	50.78
5T2-3D	2.00	ELU5	536.04	194.31	-7.03	0.07	6.30	50.78
5T2-3D	2.13	ELU5	536.00	197.28	-7.03	0.07	7.18	26.28
5T2-3D	0.00	ELS3	220.20	80.81	-5.74	0.06	-6.21	200.68
5T2-3D	1.06	ELS3	219.97	100.17	-5.74	0.06	-0.11	104.87
5T2-3D	2.00	ELS3	219.76	117.89	-5.74	0.06	5.27	2.65
5T2-3D	2.00	ELS3	219.76	117.89	-5.74	0.06	5.27	2.65
5T2-3D	2.13	ELS3	219.75	119.37	-5.74	0.06	5.99	-12.20
5T2-3I	0.00	ELU5	336.12	101.37	7.68	-0.09	8.03	268.33
5T2-3I	1.06	ELU5	335.77	131.58	7.68	-0.09	-0.13	145.73
5T2-3I	2.00	ELU5	335.43	160.42	7.68	-0.09	-7.32	8.85
5T2-3I	2.00	ELU5	335.43	160.42	7.68	-0.09	-7.32	8.85
5T2-3I	2.13	ELU5	335.39	163.39	7.68	-0.09	-8.28	-11.41
5T2-3I	0.00	ELS3	199.42	79.05	5.79	-0.06	6.25	194.39
5T2-3I	1.06	ELS3	199.19	98.42	5.79	-0.06	0.09	100.44
5T2-3I	2.00	ELS3	198.98	116.13	5.79	-0.06	-5.34	-0.13
5T2-3I	2.00	ELS3	198.98	116.13	5.79	-0.06	-5.34	-0.13
5T2-3I	2.13	ELS3	198.97	117.62	5.79	-0.06	-6.06	-14.76
5T3-4D	0.00	ELU5	-93.62	222.81	-15.86	0.05	-11.74	189.71
5T3-4D	0.81	ELU5	-93.65	224.61	-15.86	0.05	1.14	7.94
5T3-4D	1.38	ELU5	-93.66	225.84	-15.86	0.05	10.06	-118.74
5T3-4D	1.38	ELU5	-94.84	326.13	-15.86	0.05	10.06	-118.74
5T3-4D	1.63	ELU5	-94.85	326.68	-15.86	0.05	14.02	-200.35
5T3-4D	0.00	ELS3	-224.88	153.21	-13.30	0.05	-9.99	101.68
5T3-4D	0.81	ELS3	-224.90	155.01	-13.30	0.05	0.82	-23.54

5T3-4D	1.38	ELS3	-224.91	156.24	-13.30	0.05	8.30	-111.07
5T3-4D	1.38	ELS3	-226.09	256.54	-13.30	0.05	8.30	-111.07
5T3-4D	1.63	ELS3	-226.10	257.08	-13.30	0.05	11.62	-175.29
5T3-4I	0.00	ELU5	-244.09	199.35	18.72	-0.07	14.22	141.09
5T3-4I	0.81	ELU5	-244.12	201.14	18.72	-0.07	-0.99	-21.61
5T3-4I	1.38	ELU5	-244.13	202.37	18.72	-0.07	-11.52	-135.10
5T3-4I	1.38	ELU5	-245.31	302.67	18.72	-0.07	-11.52	-135.10
5T3-4I	1.63	ELU5	-245.32	303.21	18.72	-0.07	-16.20	-210.84
5T3-4I	0.00	ELS3	-239.84	151.73	13.55	-0.05	10.20	97.57
5T3-4I	0.81	ELS3	-239.86	153.53	13.55	-0.05	-0.81	-26.45
5T3-4I	1.38	ELS3	-239.87	154.76	13.55	-0.05	-8.44	-113.15
5T3-4I	1.38	ELS3	-241.05	255.06	13.55	-0.05	-8.44	-113.15
5T3-4I	1.63	ELS3	-241.06	255.60	13.55	-0.05	-11.82	-176.99
6J5-6D	0.00	ELU5	-288.06	41.14	-16.43	0.17	-12.66	-15.25
6J5-6D	0.81	ELU5	-288.81	50.30	-16.43	0.17	0.67	-52.34
6J5-6D	1.62	ELU5	-289.59	59.71	-16.43	0.17	14.01	-96.97
6J5-6D	0.00	ELS3	-295.95	45.76	-12.89	0.13	-9.90	-12.42
6J5-6D	0.81	ELS3	-296.70	54.92	-12.89	0.13	0.57	-53.26
6J5-6D	1.62	ELS3	-297.48	64.33	-12.89	0.13	11.03	-101.64
6J5-6I	0.00	ELU5	-294.73	42.99	17.01	-0.19	13.07	-11.93
6J5-6I	0.81	ELU5	-295.49	52.15	17.01	-0.19	-0.73	-50.52
6J5-6I	1.62	ELU5	-296.26	61.56	17.01	-0.19	-14.54	-96.65
6J5-6I	0.00	ELS3	-297.51	45.87	12.94	-0.13	9.94	-12.33
6J5-6I	0.81	ELS3	-298.26	55.03	12.94	-0.13	-0.57	-53.26
6J5-6I	1.62	ELS3	-299.04	64.44	12.94	-0.13	-11.08	-101.73
6J6-7D	0.00	ELU5	-133.69	-29.31	-3.12	0.11	-3.01	-35.52
6J6-7D	1.06	ELU5	-132.73	-17.70	-3.12	0.11	0.30	-10.58
6J6-7D	2.13	ELU5	-131.81	-6.51	-3.12	0.11	3.61	2.24
6J6-7D	0.00	ELS3	-130.74	-29.68	-2.48	0.09	-2.39	-35.87
6J6-7D	1.06	ELS3	-129.79	-18.06	-2.48	0.09	0.24	-10.55
6J6-7D	2.13	ELS3	-128.86	-6.88	-2.48	0.09	2.88	2.67
6J6-7I	0.00	ELU5	-123.06	-29.09	3.29	-0.12	3.11	-34.16
6J6-7I	1.06	ELU5	-122.11	-17.48	3.29	-0.12	-0.38	-9.46
6J6-7I	2.13	ELU5	-121.19	-6.29	3.29	-0.12	-3.88	3.13
6J6-7I	0.00	ELS3	-131.16	-29.68	2.50	-0.09	2.40	-35.86
6J6-7I	1.06	ELS3	-130.20	-18.07	2.50	-0.09	-0.25	-10.53
6J6-7I	2.13	ELS3	-129.28	-6.89	2.50	-0.09	-2.90	2.69
6T0-1D	0.00	ELU5	871.67	-73.95	-11.16	0.17	-11.64	272.75



6T0-1D	1.06	ELU5	871.39	-50.01	-11.16	0.17	0.22	338.60
6T0-1D	2.13	ELU5	870.88	-6.91	-11.16	0.17	12.08	370.63
6T0-1D	0.00	ELS3	514.70	-45.31	-9.16	0.14	-9.78	191.62
6T0-1D	1.06	ELS3	514.41	-20.77	-9.16	0.14	-0.04	226.72
6T0-1D	2.13	ELS3	514.12	3.73	-9.16	0.14	9.70	235.77
6T0-1I	0.00	ELU5	800.48	-24.14	11.48	-0.18	12.49	304.73
6T0-1I	1.06	ELU5	800.20	-0.19	11.48	-0.18	0.30	317.65
6T0-1I	2.13	ELU5	799.92	23.71	11.48	-0.18	-11.90	305.16
6T0-1I	0.00	ELS3	499.11	-30.00	9.17	-0.14	9.81	198.95
6T0-1I	1.06	ELS3	498.91	-12.36	9.17	-0.14	0.07	221.46
6T0-1I	2.13	ELS3	498.70	5.23	9.17	-0.14	-9.68	225.24
6T1-2D	0.00	ELU5	1124.84	12.78	1.39	-0.04	1.58	419.50
6T1-2D	1.06	ELU5	1124.28	59.95	1.39	-0.04	0.11	380.85
6T1-2D	2.00	ELU5	1123.79	101.53	1.39	-0.04	-1.19	305.16
6T1-2D	2.00	ELU5	1123.79	101.73	1.39	-0.04	-1.19	305.16
6T1-2D	2.13	ELU5	1123.72	107.28	1.39	-0.04	-1.37	292.09
6T1-2D	0.00	ELS3	673.98	30.81	1.11	-0.03	1.40	296.16
6T1-2D	1.06	ELS3	673.71	54.05	1.11	-0.03	0.22	250.54
6T1-2D	2.00	ELS3	673.53	69.50	1.11	-0.03	-0.82	192.62
6T1-2D	2.00	ELS3	673.53	69.70	1.11	-0.03	-0.82	192.62
6T1-2D	2.13	ELS3	673.50	71.76	1.11	-0.03	-0.96	183.78
6T1-2I	0.00	ELU5	944.46	52.06	-1.10	0.03	-1.68	402.75
6T1-2I	1.06	ELU5	944.18	75.92	-1.10	0.03	-0.52	334.76
6T1-2I	2.00	ELU5	943.93	96.93	-1.10	0.03	0.51	253.73
6T1-2I	2.00	ELU5	943.93	97.14	-1.10	0.03	0.51	253.73
6T1-2I	2.13	ELU5	943.90	99.94	-1.10	0.03	0.65	241.42
6T1-2I	0.00	ELS3	648.64	34.59	-1.10	0.03	-1.41	290.27
6T1-2I	1.06	ELS3	648.43	52.13	-1.10	0.03	-0.24	244.19
6T1-2I	2.00	ELS3	648.25	67.58	-1.10	0.03	0.79	188.07
6T1-2I	2.00	ELS3	648.25	67.79	-1.10	0.03	0.79	188.07
6T1-2I	2.13	ELS3	648.22	69.85	-1.10	0.03	0.93	179.47
6T2-3D	0.00	ELU5	603.02	101.97	-1.78	0.01	-1.86	321.30
6T2-3D	1.06	ELU5	602.66	132.17	-1.78	0.01	0.03	198.07
6T2-3D	2.00	ELU5	602.32	161.01	-1.78	0.01	1.69	60.64
6T2-3D	2.00	ELU5	601.94	193.82	-1.78	0.01	1.69	60.64
6T2-3D	2.13	ELU5	601.90	196.79	-1.78	0.01	1.91	36.21
6T2-3D	0.00	ELS3	263.20	78.91	-1.50	0.01	-1.72	203.75
6T2-3D	1.06	ELS3	262.97	98.27	-1.50	0.01	-0.13	109.97

6T2-3D	2.00	ELS3	262.76	115.99	-1.50	0.01	1.28	9.53
6T2-3D	2.00	ELS3	262.76	115.99	-1.50	0.01	1.28	9.53
6T2-3D	2.13	ELS3	262.75	117.47	-1.50	0.01	1.47	-5.08
6T2-3I	0.00	ELU5	413.16	100.53	2.33	-0.02	2.79	277.11
6T2-3I	1.06	ELU5	412.81	130.73	2.33	-0.02	0.31	155.41
6T2-3I	2.00	ELU5	412.47	159.57	2.33	-0.02	-1.87	19.33
6T2-3I	2.00	ELU5	412.47	159.57	2.33	-0.02	-1.87	19.33
6T2-3I	2.13	ELU5	412.43	162.54	2.33	-0.02	-2.16	-0.83
6T2-3I	0.00	ELS3	244.16	77.13	1.54	-0.01	1.78	197.69
6T2-3I	1.06	ELS3	243.93	96.49	1.54	-0.01	0.14	105.79
6T2-3I	2.00	ELS3	243.72	114.21	1.54	-0.01	-1.30	7.02
6T2-3I	2.00	ELS3	243.72	114.21	1.54	-0.01	-1.30	7.02
6T2-3I	2.13	ELS3	243.70	115.69	1.54	-0.01	-1.49	-7.37
6T3-4D	0.00	ELU5	84.49	209.98	-11.62	0.08	-8.82	213.73
6T3-4D	0.81	ELU5	84.47	211.78	-11.62	0.08	0.62	42.38
6T3-4D	1.38	ELU5	84.46	213.01	-11.62	0.08	7.15	-77.08
6T3-4D	1.38	ELU5	83.28	313.31	-11.62	0.08	7.15	-77.08
6T3-4D	1.63	ELU5	83.27	313.85	-11.62	0.08	10.06	-155.49
6T3-4D	0.00	ELS3	-87.26	140.53	-9.15	0.06	-6.90	116.33
6T3-4D	0.81	ELS3	-87.28	142.33	-9.15	0.06	0.54	1.41
6T3-4D	1.38	ELS3	-87.29	143.56	-9.15	0.06	5.69	-78.99
6T3-4D	1.38	ELS3	-88.47	243.86	-9.15	0.06	5.69	-78.99
6T3-4D	1.63	ELS3	-88.48	244.40	-9.15	0.06	7.98	-140.03
6T3-4I	0.00	ELU5	-57.12	184.93	12.86	-0.09	9.59	165.22
6T3-4I	0.81	ELU5	-57.14	186.73	12.86	-0.09	-0.86	14.22
6T3-4I	1.38	ELU5	-57.16	187.96	12.86	-0.09	-8.10	-91.16
6T3-4I	1.38	ELU5	-58.34	288.26	12.86	-0.09	-8.10	-91.16
6T3-4I	1.63	ELU5	-58.35	288.80	12.86	-0.09	-11.32	-163.30
6T3-4I	0.00	ELS3	-100.21	138.89	9.25	-0.06	6.97	112.44
6T3-4I	0.81	ELS3	-100.23	140.69	9.25	-0.06	-0.55	-1.14
6T3-4I	1.38	ELS3	-100.25	141.92	9.25	-0.06	-5.76	-80.62
6T3-4I	1.38	ELS3	-101.43	242.22	9.25	-0.06	-5.76	-80.62
6T3-4I	1.63	ELS3	-101.43	242.76	9.25	-0.06	-8.07	-141.25
7J5-6D	0.00	ELU5	-413.38	46.09	-17.14	0.16	-13.03	-3.82
7J5-6D	0.81	ELU5	-414.14	55.25	-17.14	0.16	0.88	-44.93
7J5-6D	1.62	ELU5	-414.91	64.66	-17.14	0.16	14.79	-93.58
7J5-6D	0.00	ELS3	-399.89	49.84	-13.10	0.12	-9.95	-3.46
7J5-6D	0.81	ELS3	-400.65	59.00	-13.10	0.12	0.68	-47.61



7J5-6D	1.62	ELS3	-401.42	68.41	-13.10	0.12	11.31	-99.30
7J5-6I	0.00	ELU5	-408.30	47.44	16.38	-0.16	12.52	-1.41
7J5-6I	0.81	ELU5	-409.05	56.60	16.38	-0.16	-0.78	-43.62
7J5-6I	1.62	ELU5	-409.82	66.01	16.38	-0.16	-14.08	-93.36
7J5-6I	0.00	ELS3	-400.44	49.92	13.03	-0.12	9.90	-3.42
7J5-6I	0.81	ELS3	-401.19	59.07	13.03	-0.12	-0.67	-47.64
7J5-6I	1.62	ELS3	-401.96	68.48	13.03	-0.12	-11.25	-99.39
7J6-7D	0.00	ELU5	-163.77	-31.32	-1.77	0.06	-1.04	-39.11
7J6-7D	1.06	ELU5	-162.82	-19.71	-1.77	0.06	0.84	-12.03
7J6-7D	2.13	ELU5	-161.90	-8.53	-1.77	0.06	2.71	2.93
7J6-7D	0.00	ELS3	-154.55	-31.32	-1.25	0.04	-0.69	-38.82
7J6-7D	1.06	ELS3	-153.60	-19.71	-1.25	0.04	0.64	-11.75
7J6-7D	2.13	ELS3	-152.68	-8.52	-1.25	0.04	1.97	3.21
7J6-7I	0.00	ELU5	-150.47	-30.94	1.79	-0.07	1.13	-37.50
7J6-7I	1.06	ELU5	-149.52	-19.33	1.79	-0.07	-0.77	-10.83
7J6-7I	2.13	ELU5	-148.59	-8.14	1.79	-0.07	-2.67	3.73
7J6-7I	0.00	ELS3	-154.68	-31.30	1.25	-0.04	0.69	-38.77
7J6-7I	1.06	ELS3	-153.72	-19.69	1.25	-0.04	-0.64	-11.72
7J6-7I	2.13	ELS3	-152.80	-8.51	1.25	-0.04	-1.96	3.23
7T0-1D	0.00	ELU5	1274.63	-44.47	7.71	-0.12	8.35	393.74
7T0-1D	1.06	ELU5	1274.35	-20.52	7.71	-0.12	0.15	428.26
7T0-1D	2.13	ELU5	1273.84	22.57	7.71	-0.12	-8.04	428.97
7T0-1D	0.00	ELS3	827.97	-21.64	6.32	-0.10	6.94	287.52
7T0-1D	1.06	ELS3	827.68	2.90	6.32	-0.10	0.23	297.47
7T0-1D	2.13	ELS3	827.40	27.40	6.32	-0.10	-6.49	281.37
7T0-1I	0.00	ELU5	1199.81	3.36	-7.79	0.12	-8.75	425.36
7T0-1I	1.06	ELU5	1199.53	27.31	-7.79	0.12	-0.46	409.06
7T0-1I	2.13	ELU5	1199.25	51.21	-7.79	0.12	7.82	367.34
7T0-1I	0.00	ELS3	812.54	-6.75	-6.35	0.10	-6.99	294.57
7T0-1I	1.06	ELS3	812.34	10.88	-6.35	0.10	-0.24	292.37
7T0-1I	2.13	ELS3	812.13	28.47	-6.35	0.10	6.51	271.46
7T1-2D	0.00	ELU5	1065.31	14.43	-4.91	0.08	-5.09	376.65
7T1-2D	1.06	ELU5	1064.76	61.59	-4.91	0.08	0.13	336.26
7T1-2D	2.00	ELU5	1064.27	103.17	-4.91	0.08	4.73	259.03
7T1-2D	2.00	ELU5	1064.26	103.38	-4.91	0.08	4.73	259.03
7T1-2D	2.13	ELU5	1064.20	108.92	-4.91	0.08	5.35	245.76
7T1-2D	0.00	ELS3	613.82	31.26	-3.86	0.06	-4.13	257.19
7T1-2D	1.06	ELS3	613.55	54.49	-3.86	0.06	-0.03	211.09

7T1-2D	2.00	ELS3	613.36	69.94	-3.86	0.06	3.59	152.76
7T1-2D	2.00	ELS3	613.36	70.15	-3.86	0.06	3.59	152.76
7T1-2D	2.13	ELS3	613.34	72.21	-3.86	0.06	4.07	143.86
7T1-2I	0.00	ELU5	891.88	51.45	4.87	-0.08	5.34	356.73
7T1-2I	1.06	ELU5	891.60	75.31	4.87	-0.08	0.17	289.38
7T1-2I	2.00	ELU5	891.36	96.32	4.87	-0.08	-4.40	208.93
7T1-2I	2.00	ELU5	891.35	96.53	4.87	-0.08	-4.40	208.93
7T1-2I	2.13	ELU5	891.32	99.33	4.87	-0.08	-5.00	196.69
7T1-2I	0.00	ELS3	589.24	34.76	3.85	-0.06	4.14	251.04
7T1-2I	1.06	ELS3	589.03	52.31	3.85	-0.06	0.05	204.78
7T1-2I	2.00	ELS3	588.85	67.75	3.85	-0.06	-3.56	148.50
7T1-2I	2.00	ELS3	588.85	67.96	3.85	-0.06	-3.56	148.50
7T1-2I	2.13	ELS3	588.82	70.02	3.85	-0.06	-4.04	139.88
7T2-3D	0.00	ELU5	860.29	121.11	-3.22	0.05	-3.01	403.64
7T2-3D	1.06	ELU5	859.94	151.32	-3.22	0.05	0.40	260.06
7T2-3D	2.00	ELU5	859.60	180.16	-3.22	0.05	3.42	104.68
7T2-3D	2.00	ELU5	859.21	212.96	-3.22	0.05	3.42	104.68
7T2-3D	2.13	ELU5	859.18	215.94	-3.22	0.05	3.82	77.85
7T2-3D	0.00	ELS3	461.58	93.21	-2.40	0.03	-2.18	267.51
7T2-3D	1.06	ELS3	461.35	112.57	-2.40	0.03	0.38	158.53
7T2-3D	2.00	ELS3	461.14	130.29	-2.40	0.03	2.63	44.68
7T2-3D	2.00	ELS3	461.14	130.29	-2.40	0.03	2.63	44.68
7T2-3D	2.13	ELS3	461.12	131.77	-2.40	0.03	2.93	28.28
7T2-3I	0.00	ELU5	679.91	117.10	3.11	-0.05	2.75	359.27
7T2-3I	1.06	ELU5	679.56	147.30	3.11	-0.05	-0.55	219.96
7T2-3I	2.00	ELU5	679.22	176.15	3.11	-0.05	-3.46	68.34
7T2-3I	2.00	ELU5	679.22	176.15	3.11	-0.05	-3.46	68.34
7T2-3I	2.13	ELU5	679.18	179.12	3.11	-0.05	-3.85	46.11
7T2-3I	0.00	ELS3	443.56	91.19	2.38	-0.03	2.15	261.39
7T2-3I	1.06	ELS3	443.33	110.56	2.38	-0.03	-0.38	154.54
7T2-3I	2.00	ELS3	443.12	128.27	2.38	-0.03	-2.62	42.58
7T2-3I	2.13	ELS3	443.10	129.76	2.38	-0.03	-2.92	26.44
7T3-4D	0.00	ELU5	117.61	237.08	-3.28	0.05	-2.69	263.30
7T3-4D	0.81	ELU5	117.59	238.88	-3.28	0.05	-0.03	69.93
7T3-4D	1.38	ELU5	117.57	240.11	-3.28	0.05	1.81	-64.78
7T3-4D	1.38	ELU5	116.39	340.40	-3.28	0.05	1.81	-64.78
7T3-4D	1.63	ELU5	116.38	340.95	-3.28	0.05	2.63	-149.96



7T3-4D	0.00	ELS3	-69.18	161.08	-2.23	0.04	-1.95	153.67
7T3-4D	0.81	ELS3	-69.20	162.88	-2.23	0.04	-0.13	22.06
7T3-4D	1.38	ELS3	-69.22	164.11	-2.23	0.04	1.12	-69.90
7T3-4D	1.38	ELS3	-70.40	264.40	-2.23	0.04	1.12	-69.90
7T3-4D	1.63	ELS3	-70.40	264.95	-2.23	0.04	1.68	-136.08
7T3-4I	0.00	ELU5	-0.41	207.85	4.17	-0.05	3.48	213.87
7T3-4I	0.81	ELU5	-0.43	209.65	4.17	-0.05	0.10	44.25
7T3-4I	1.38	ELU5	-0.44	210.88	4.17	-0.05	-2.24	-74.02
7T3-4I	1.38	ELU5	-1.62	311.18	4.17	-0.05	-2.24	-74.02
7T3-4I	1.63	ELU5	-1.63	311.72	4.17	-0.05	-3.29	-151.90
7T3-4I	0.00	ELS3	-79.74	159.06	2.28	-0.04	1.99	149.79
7T3-4I	0.81	ELS3	-79.76	160.86	2.28	-0.04	0.14	19.82
7T3-4I	1.38	ELS3	-79.78	162.09	2.28	-0.04	-1.15	-71.00
7T3-4I	1.38	ELS3	-80.96	262.38	2.28	-0.04	-1.15	-71.00
7T3-4I	1.63	ELS3	-80.96	262.93	2.28	-0.04	-1.72	-136.68
8J5-6D	0.00	ELU5	-469.73	106.77	-10.02	0.11	-7.91	12.67
8J5-6D	0.81	ELU5	-470.48	115.93	-10.02	0.11	0.22	-77.70
8J5-6D	1.62	ELU5	-471.26	125.34	-10.02	0.11	8.35	-175.60
8J5-6D	0.00	ELS3	-445.23	99.85	-6.75	0.07	-5.34	9.71
8J5-6D	0.81	ELS3	-445.99	109.01	-6.75	0.07	0.14	-75.04
8J5-6D	1.62	ELS3	-446.76	118.42	-6.75	0.07	5.62	-167.32
8J5-6I	0.00	ELU5	-456.46	103.93	9.08	-0.10	7.15	14.12
8J5-6I	0.81	ELU5	-457.22	113.09	9.08	-0.10	-0.22	-73.94
8J5-6I	1.62	ELU5	-457.99	122.50	9.08	-0.10	-7.58	-169.54
8J5-6I	0.00	ELS3	-445.20	99.63	6.65	-0.07	5.25	9.68
8J5-6I	0.81	ELS3	-445.95	108.79	6.65	-0.07	-0.14	-74.89
8J5-6I	1.62	ELS3	-446.73	118.20	6.65	-0.07	-5.54	-166.99
8J6-7D	0.00	ELU5	-150.93	-32.77	-2.16	0.06	-2.34	-40.20
8J6-7D	1.06	ELU5	-149.98	-21.16	-2.16	0.06	-0.05	-11.59
8J6-7D	2.13	ELU5	-149.06	-9.98	-2.16	0.06	2.24	4.92
8J6-7D	0.00	ELS3	-144.03	-32.60	-1.50	0.04	-1.67	-39.95
8J6-7D	1.06	ELS3	-143.07	-20.99	-1.50	0.04	-0.08	-11.52
8J6-7D	2.13	ELS3	-142.15	-9.80	-1.50	0.04	1.51	4.80
8J6-7I	0.00	ELU5	-137.43	-32.28	1.98	-0.06	2.14	-38.51
8J6-7I	1.06	ELU5	-136.47	-20.67	1.98	-0.06	0.03	-10.43
8J6-7I	2.13	ELU5	-135.55	-9.48	1.98	-0.06	-2.08	5.55
8J6-7I	0.00	ELS3	-144.23	-32.58	1.47	-0.04	1.65	-39.90
8J6-7I	1.06	ELS3	-143.27	-20.97	1.47	-0.04	0.08	-11.49

8J6-7I	2.13	ELS3	-142.35	-9.78	1.47	-0.04	-1.48	4.81
8T0-1D	0.00	ELU5	1355.17	-47.59	-7.06	0.11	-7.28	383.93
8T0-1D	1.06	ELU5	1354.89	-23.65	-7.06	0.11	0.23	421.77
8T0-1D	2.13	ELU5	1354.39	19.44	-7.06	0.11	7.73	425.80
8T0-1D	0.00	ELS3	884.17	-25.35	-5.57	0.09	-5.83	275.08
8T0-1D	1.06	ELS3	883.88	-0.80	-5.57	0.09	0.08	288.96
8T0-1D	2.13	ELS3	883.60	23.69	-5.57	0.09	6.00	276.80
8T0-1I	0.00	ELU5	1287.25	-4.03	6.74	-0.11	7.16	410.81
8T0-1I	1.06	ELU5	1286.97	19.92	6.74	-0.11	0.00	402.37
8T0-1I	2.13	ELU5	1286.69	43.82	6.74	-0.11	-7.17	368.51
8T0-1I	0.00	ELS3	868.93	-10.93	5.52	-0.09	5.80	281.55
8T0-1I	1.06	ELS3	868.72	6.71	5.52	-0.09	-0.07	283.79
8T0-1I	2.13	ELS3	868.52	24.30	5.52	-0.09	-5.94	267.31
8T1-2D	0.00	ELU5	1418.08	49.82	2.51	-0.04	2.98	500.77
8T1-2D	1.06	ELU5	1417.52	96.98	2.51	-0.04	0.31	422.78
8T1-2D	2.00	ELU5	1417.03	138.56	2.51	-0.04	-2.05	312.37
8T1-2D	2.00	ELU5	1417.03	138.77	2.51	-0.04	-2.05	312.37
8T1-2D	2.13	ELU5	1416.97	144.31	2.51	-0.04	-2.36	294.67
8T1-2D	0.00	ELS3	890.43	58.88	2.25	-0.03	2.69	354.77
8T1-2D	1.06	ELS3	890.16	82.11	2.25	-0.03	0.30	279.33
8T1-2D	2.00	ELS3	889.98	97.56	2.25	-0.03	-1.82	195.10
8T1-2D	2.00	ELS3	889.97	97.77	2.25	-0.03	-1.82	195.10
8T1-2D	2.13	ELS3	889.95	99.83	2.25	-0.03	-2.10	182.75
8T1-2I	0.00	ELU5	1251.59	82.41	-2.69	0.04	-3.32	478.38
8T1-2I	1.06	ELU5	1251.31	106.26	-2.69	0.04	-0.46	378.15
8T1-2I	2.00	ELU5	1251.06	127.28	-2.69	0.04	2.06	268.67
8T1-2I	2.00	ELU5	1251.06	127.48	-2.69	0.04	2.06	268.67
8T1-2I	2.13	ELU5	1251.02	130.28	-2.69	0.04	2.39	252.56
8T1-2I	0.00	ELS3	866.54	61.95	-2.29	0.04	-2.74	348.30
8T1-2I	1.06	ELS3	866.34	79.50	-2.29	0.04	-0.30	273.15
8T1-2I	2.00	ELS3	866.15	94.95	-2.29	0.04	1.85	191.37
8T1-2I	2.00	ELS3	866.15	95.16	-2.29	0.04	1.85	191.37
8T1-2I	2.13	ELS3	866.13	97.21	-2.29	0.04	2.13	179.35
8T2-3D	0.00	ELU5	843.73	156.78	-0.50	0.02	-0.57	434.61
8T2-3D	1.06	ELU5	843.38	186.98	-0.50	0.02	-0.04	253.14
8T2-3D	2.00	ELU5	843.04	215.83	-0.50	0.02	0.43	64.32
8T2-3D	2.00	ELU5	842.65	248.63	-0.50	0.02	0.43	64.32
8T2-3D	2.13	ELU5	842.62	251.60	-0.50	0.02	0.49	33.03





8T2-3D	0.00	ELS3	436.71	120.97	-0.15	0.01	-0.26	288.29
8T2-3D	1.06	ELS3	436.48	140.33	-0.15	0.01	-0.11	149.81
8T2-3D	2.00	ELS3	436.27	158.05	-0.15	0.01	0.03	9.94
8T2-3D	2.00	ELS3	436.27	158.05	-0.15	0.01	0.03	9.94
8T2-3D	2.13	ELS3	436.25	159.53	-0.15	0.01	0.05	-9.93
8T2-3I	0.00	ELU5	676.40	147.72	0.49	-0.01	0.70	385.46
8T2-3I	1.06	ELU5	676.04	177.92	0.49	-0.01	0.18	213.61
8T2-3I	2.00	ELU5	675.70	206.77	0.49	-0.01	-0.27	33.29
8T2-3I	2.00	ELU5	675.70	206.77	0.49	-0.01	-0.27	33.29
8T2-3I	2.13	ELU5	675.67	209.74	0.49	-0.01	-0.33	7.24
8T2-3I	0.00	ELS3	420.20	118.56	0.13	-0.01	0.26	281.91
8T2-3I	1.06	ELS3	419.97	137.92	0.13	-0.01	0.12	145.99
8T2-3I	2.00	ELS3	419.76	155.64	0.13	-0.01	-0.01	8.39
8T2-3I	2.00	ELS3	419.76	155.64	0.13	-0.01	-0.01	8.39
8T2-3I	2.13	ELS3	419.75	157.12	0.13	-0.01	-0.02	-11.18
8T3-4D	0.00	ELU5	68.25	297.76	-6.04	0.05	-4.47	366.42
8T3-4D	0.81	ELU5	68.23	299.56	-6.04	0.05	0.44	123.75
8T3-4D	1.38	ELU5	68.21	300.79	-6.04	0.05	3.84	-45.10
8T3-4D	1.38	ELU5	67.03	401.09	-6.04	0.05	3.84	-45.10
8T3-4D	1.63	ELU5	67.03	401.63	-6.04	0.05	5.35	-145.45
8T3-4D	0.00	ELS3	-121.14	209.19	-3.76	0.03	-2.74	234.41
8T3-4D	0.81	ELS3	-121.16	210.99	-3.76	0.03	0.31	63.70
8T3-4D	1.38	ELS3	-121.18	212.22	-3.76	0.03	2.42	-55.32
8T3-4D	1.38	ELS3	-122.36	312.52	-3.76	0.03	2.42	-55.32
8T3-4D	1.63	ELS3	-122.37	313.06	-3.76	0.03	3.36	-133.53
8T3-4I	0.00	ELU5	-26.61	260.66	5.68	-0.05	4.12	310.70
8T3-4I	0.81	ELU5	-26.63	262.45	5.68	-0.05	-0.49	98.19
8T3-4I	1.38	ELU5	-26.65	263.68	5.68	-0.05	-3.68	-49.79
8T3-4I	1.38	ELU5	-27.83	363.98	5.68	-0.05	-3.68	-49.79
8T3-4I	1.63	ELU5	-27.83	364.52	5.68	-0.05	-5.10	-140.86
8T3-4I	0.00	ELS3	-129.56	206.57	3.69	-0.03	2.69	230.10
8T3-4I	0.81	ELS3	-129.58	208.37	3.69	-0.03	-0.31	61.52
8T3-4I	1.38	ELS3	-129.60	209.60	3.69	-0.03	-2.39	-56.03
8T3-4I	1.38	ELS3	-130.78	309.90	3.69	-0.03	-2.39	-56.03
8T3-4I	1.63	ELS3	-130.78	310.44	3.69	-0.03	-3.31	-133.58
9J5-6D	0.00	ELU5	-362.10	52.82	-7.21	0.06	-5.42	11.34
9J5-6D	0.81	ELU5	-362.86	61.98	-7.21	0.06	0.43	-35.23
9J5-6D	1.62	ELU5	-363.63	71.39	-7.21	0.06	6.28	-89.34

9J5-6D	0.00	ELS3	-356.14	55.29	-3.75	0.02	-2.77	7.52
9J5-6D	0.81	ELS3	-356.90	64.45	-3.75	0.02	0.28	-41.06
9J5-6D	1.62	ELS3	-357.67	73.86	-3.75	0.02	3.33	-97.17
9J5-6I	0.00	ELU5	-356.69	54.29	6.06	-0.05	4.56	12.45
9J5-6I	0.81	ELU5	-357.44	63.45	6.06	-0.05	-0.36	-35.32
9J5-6I	1.62	ELU5	-358.22	72.86	6.06	-0.05	-5.27	-90.62
9J5-6I	0.00	ELS3	-356.67	55.41	3.63	-0.02	2.67	7.49
9J5-6I	0.81	ELS3	-357.42	64.57	3.63	-0.02	-0.27	-41.18
9J5-6I	1.62	ELS3	-358.20	73.98	3.63	-0.02	-3.22	-97.40
9J6-7D	0.00	ELU5	-163.56	-28.64	-2.54	0.08	-2.56	-31.41
9J6-7D	1.06	ELU5	-162.61	-17.03	-2.54	0.08	0.14	-7.19
9J6-7D	2.13	ELU5	-161.69	-5.84	-2.54	0.08	2.84	4.92
9J6-7D	0.00	ELS3	-154.07	-29.30	-1.64	0.05	-1.70	-33.01
9J6-7D	1.06	ELS3	-153.11	-17.69	-1.64	0.05	0.04	-8.08
9J6-7D	2.13	ELS3	-152.19	-6.51	-1.64	0.05	1.78	4.74
9J6-7I	0.00	ELU5	-149.24	-28.54	2.24	-0.07	2.28	-30.62
9J6-7I	1.06	ELU5	-148.29	-16.93	2.24	-0.07	-0.10	-6.50
9J6-7I	2.13	ELU5	-147.37	-5.74	2.24	-0.07	-2.48	5.51
9J6-7I	0.00	ELS3	-154.14	-29.31	1.61	-0.05	1.67	-33.01
9J6-7I	1.06	ELS3	-153.19	-17.70	1.61	-0.05	-0.04	-8.08
9J6-7I	2.13	ELS3	-152.27	-6.51	1.61	-0.05	-1.74	4.74
9T0-1D	0.00	ELU5	1517.69	-36.57	5.27	-0.08	5.81	439.47
9T0-1D	1.06	ELU5	1517.41	-12.63	5.27	-0.08	0.21	465.60
9T0-1D	2.13	ELU5	1516.91	30.47	5.27	-0.08	-5.39	457.92
9T0-1D	0.00	ELS3	995.94	-15.62	4.44	-0.07	4.93	316.25
9T0-1D	1.06	ELS3	995.66	8.92	4.44	-0.07	0.21	319.81
9T0-1D	2.13	ELS3	995.37	33.42	4.44	-0.07	-4.51	297.31
9T0-1I	0.00	ELU5	1446.62	9.50	-5.54	0.09	-6.22	468.91
9T0-1I	1.06	ELU5	1446.34	33.44	-5.54	0.09	-0.34	446.09
9T0-1I	2.13	ELU5	1446.06	57.34	-5.54	0.09	5.55	397.86
9T0-1I	0.00	ELS3	981.10	-1.17	-4.50	0.07	-5.00	322.88
9T0-1I	1.06	ELS3	980.90	16.47	-4.50	0.07	-0.22	314.74
9T0-1I	2.13	ELS3	980.69	34.06	-4.50	0.07	4.57	287.89
9T1-2D	0.00	ELU5	1350.34	30.80	-3.36	0.06	-3.35	448.20
9T1-2D	1.06	ELU5	1349.79	77.96	-3.36	0.06	0.22	390.42
9T1-2D	2.00	ELU5	1349.30	119.54	-3.36	0.06	3.37	297.84
9T1-2D	2.00	ELU5	1349.30	119.75	-3.36	0.06	3.37	297.84
9T1-2D	2.13	ELU5	1349.23	125.29	-3.36	0.06	3.79	282.52





9T1-2D	0.00	ELS3	817.91	42.76	-2.31	0.04	-2.35	306.35
9T1-2D	1.06	ELS3	817.64	65.99	-2.31	0.04	0.11	248.04
9T1-2D	2.00	ELS3	817.46	81.44	-2.31	0.04	2.27	178.93
9T1-2D	2.00	ELS3	817.45	81.65	-2.31	0.04	2.27	178.93
9T1-2D	2.13	ELS3	817.43	83.70	-2.31	0.04	2.56	168.60
9T1-2I	0.00	ELU5	1188.40	65.03	2.96	-0.05	3.07	427.08
9T1-2I	1.06	ELU5	1188.12	88.88	2.96	-0.05	-0.07	345.32
9T1-2I	2.00	ELU5	1187.87	109.90	2.96	-0.05	-2.85	252.14
9T1-2I	2.00	ELU5	1187.87	110.10	2.96	-0.05	-2.85	252.14
9T1-2I	2.13	ELU5	1187.84	112.90	2.96	-0.05	-3.22	238.20
9T1-2I	0.00	ELS3	794.76	45.91	2.27	-0.04	2.32	300.03
9T1-2I	1.06	ELS3	794.55	63.46	2.27	-0.04	-0.09	241.92
9T1-2I	2.00	ELS3	794.37	78.91	2.27	-0.04	-2.22	175.19
9T1-2I	2.00	ELS3	794.37	79.12	2.27	-0.04	-2.22	175.19
9T1-2I	2.13	ELS3	794.35	81.17	2.27	-0.04	-2.51	165.17
9T2-3D	0.00	ELU5	1038.83	140.56	-0.51	0.02	-0.45	461.01
9T2-3D	1.06	ELU5	1038.48	170.77	-0.51	0.02	0.09	296.77
9T2-3D	2.00	ELU5	1038.14	199.61	-0.51	0.02	0.56	123.15
9T2-3D	2.00	ELU5	1037.75	232.41	-0.51	0.02	0.56	123.15
9T2-3D	2.13	ELU5	1037.72	235.38	-0.51	0.02	0.63	93.89
9T2-3D	0.00	ELS3	582.92	106.12	0.14	0.01	0.24	304.58
9T2-3D	1.06	ELS3	582.69	125.49	0.14	0.01	0.09	181.88
9T2-3D	2.00	ELS3	582.48	143.20	0.14	0.01	-0.04	55.93
9T2-3D	2.00	ELS3	582.48	143.20	0.14	0.01	-0.04	55.93
9T2-3D	2.13	ELS3	582.46	144.69	0.14	0.01	-0.05	37.91
9T2-3I	0.00	ELU5	882.23	132.89	0.16	-0.01	0.01	415.72
9T2-3I	1.06	ELU5	881.87	163.09	0.16	-0.01	-0.16	259.63
9T2-3I	2.00	ELU5	881.53	191.94	0.16	-0.01	-0.31	93.21
9T2-3I	2.00	ELU5	881.53	191.94	0.16	-0.01	-0.31	93.21
9T2-3I	2.13	ELU5	881.50	194.91	0.16	-0.01	-0.33	69.01
9T2-3I	0.00	ELS3	567.27	103.81	-0.19	0.00	-0.29	298.44
9T2-3I	1.06	ELS3	567.04	123.17	-0.19	0.00	-0.10	178.20
9T2-3I	2.00	ELS3	566.83	140.89	-0.19	0.00	0.08	54.41
9T2-3I	2.00	ELS3	566.83	140.89	-0.19	0.00	0.08	54.41
9T2-3I	2.13	ELS3	566.81	142.37	-0.19	0.00	0.10	36.69
9T3-4D	0.00	ELU5	313.32	259.76	-1.92	0.01	-1.10	318.43
9T3-4D	0.81	ELU5	313.30	261.55	-1.92	0.01	0.46	106.64
9T3-4D	1.38	ELU5	313.28	262.78	-1.92	0.01	1.53	-40.82

9T3-4D	1.38	ELU5	312.10	363.08	-1.92	0.01	1.53	-40.82
9T3-4D	1.63	ELU5	312.10	363.62	-1.92	0.01	2.01	-131.67
9T3-4D	0.00	ELS3	65.36	176.90	0.03	0.00	0.26	189.01
9T3-4D	0.81	ELS3	65.34	178.70	0.03	0.00	0.23	44.54
9T3-4D	1.38	ELS3	65.32	179.93	0.03	0.00	0.21	-56.33
9T3-4D	1.38	ELS3	64.14	280.23	0.03	0.00	0.21	-56.33
9T3-4D	1.63	ELS3	64.14	280.77	0.03	0.00	0.21	-126.46
9T3-4I	0.00	ELU5	217.79	225.66	1.70	-0.01	1.02	268.29
9T3-4I	0.81	ELU5	217.77	227.45	1.70	-0.01	-0.36	84.20
9T3-4I	1.38	ELU5	217.75	228.68	1.70	-0.01	-1.31	-44.08
9T3-4I	1.38	ELU5	216.57	328.98	1.70	-0.01	-1.31	-44.08
9T3-4I	1.63	ELU5	216.56	329.52	1.70	-0.01	-1.74	-126.41
9T3-4I	0.00	ELS3	57.33	174.52	-0.10	0.01	-0.31	185.24
9T3-4I	0.81	ELS3	57.31	176.31	-0.10	0.01	-0.22	42.72
9T3-4I	1.38	ELS3	57.30	177.54	-0.10	0.01	-0.17	-56.80
9T3-4I	1.38	ELS3	56.12	277.84	-0.10	0.01	-0.17	-56.80
9T3-4I	1.63	ELS3	56.11	278.38	-0.10	0.01	-0.14	-126.34
A10-11	0.00	ELU5	-26761.86	-4604.52	27.83	-125.56	-528.28	49.42
A10-11	1.25	ELU5	-26754.55	-4568.24	26.25	-125.56	-562.16	5796.45
A10-11	2.51	ELU5	-26746.72	-4529.43	24.67	-125.56	-594.06	11496.44
A10-11	0.00	ELS3	-22374.78	-3828.66	3.41	-41.62	-54.52	21.61
A10-11	1.25	ELS3	-22367.79	-3793.98	3.41	-41.62	-58.80	4797.48
A10-11	2.51	ELS3	-22360.28	-3756.78	3.41	-41.62	-63.08	9528.32
A11-12	0.00	ELU5	-24902.35	-5133.62	31.05	-164.58	-580.16	12580.60
A11-12	1.25	ELU5	-24896.60	-5091.26	29.47	-164.58	-618.02	18977.28
A11-12	2.50	ELU5	-24890.42	-5045.70	27.88	-164.58	-653.89	25318.96
A11-12	0.00	ELS3	-20718.34	-4186.25	4.67	-45.82	-59.37	10508.29
A11-12	1.25	ELS3	-20712.85	-4145.81	4.67	-45.82	-65.21	15720.88
A11-12	2.50	ELS3	-20706.92	-4102.17	4.67	-45.82	-71.05	20880.88
A12-13	0.00	ELU5	-21789.57	-2614.67	-84.97	-214.53	-700.45	27326.89
A12-13	1.25	ELU5	-21786.22	-2564.69	-86.74	-214.53	-592.92	30570.71
A12-13	2.50	ELU5	-21782.59	-2510.64	-88.51	-214.53	-483.17	33749.38
A12-13	0.00	ELS3	-18071.65	-1984.07	-3.82	-50.99	-72.23	22597.42
A12-13	1.25	ELS3	-18068.46	-1936.43	-3.82	-50.99	-67.44	25052.92
A12-13	2.50	ELS3	-18064.98	-1884.71	-3.82	-50.99	-62.65	27446.19
A13-14	0.00	ELU5	-21087.21	777.73	-259.33	-321.21	-487.78	34143.94
A13-14	0.42	ELU5	-21087.29	796.86	-259.92	-321.21	-379.51	33815.63
A13-14	0.83	ELU5	-21087.36	816.46	-260.51	-321.21	-271.00	33479.25



<b>A13-14</b>	1.25	ELU5	-21087.44	836.53	-261.10	-321.21	-162.23	33134.60
<b>A13-14</b>	1.67	ELU5	-21087.52	857.07	-261.69	-321.21	-53.23	32781.49
<b>A13-14</b>	2.09	ELU5	-21087.60	878.08	-262.28	-321.21	56.03	32419.70
<b>A13-14</b>	2.50	ELU5	-21087.69	899.57	-262.87	-321.21	165.53	32049.06
<b>A13-14</b>	0.00	ELS3	-17511.86	744.01	-13.96	-59.63	-60.12	27765.24
<b>A13-14</b>	0.42	ELS3	-17511.93	762.18	-13.96	-59.63	-54.30	27451.20
<b>A13-14</b>	0.83	ELS3	-17512.01	780.83	-13.96	-59.63	-48.48	27129.48
<b>A13-14</b>	1.25	ELS3	-17512.08	799.95	-13.96	-59.63	-42.66	26799.89
<b>A13-14</b>	1.67	ELS3	-17512.16	819.53	-13.96	-59.63	-36.84	26462.22
<b>A13-14</b>	2.09	ELS3	-17512.23	839.59	-13.96	-59.63	-31.02	26116.29
<b>A13-14</b>	2.50	ELS3	-17512.31	860.13	-13.96	-59.63	-25.20	25761.90
<b>A14-15</b>	0.00	ELU5	-23334.21	4341.07	-490.72	-484.21	339.69	30486.63
<b>A14-15</b>	1.25	ELU5	-23339.38	4410.05	-492.48	-484.21	954.19	25017.86
<b>A14-15</b>	2.50	ELU5	-23345.06	4485.87	-494.25	-484.21	1570.90	19458.59
<b>A14-15</b>	0.00	ELS3	-19217.82	3348.56	-22.00	-67.47	-15.56	24581.98
<b>A14-15</b>	1.25	ELS3	-19222.73	3414.05	-22.00	-67.47	11.95	20356.03
<b>A14-15</b>	2.50	ELS3	-19228.15	3486.38	-22.00	-67.47	39.45	16043.95
<b>A15-16</b>	0.00	ELU5	-27442.33	6438.51	-618.48	-514.28	1850.80	16546.84
<b>A15-16</b>	1.25	ELU5	-27455.11	6530.30	-620.19	-514.28	2625.73	8435.95
<b>A15-16</b>	2.50	ELU5	-27471.32	6646.61	-621.90	-514.28	3402.80	194.87
<b>A15-16</b>	0.00	ELS3	-22544.93	5057.14	-26.34	-69.40	52.46	13679.61
<b>A15-16</b>	1.25	ELS3	-22557.13	5144.70	-26.34	-69.40	85.41	7299.76
<b>A15-16</b>	2.50	ELS3	-22572.74	5256.78	-26.34	-69.40	118.37	795.02
<b>A16-17</b>	0.00	ELU5	-29537.26	5566.65	-646.49	-312.93	3533.39	-1130.35
<b>A16-17</b>	1.08	ELU5	-29560.95	5680.34	-647.38	-312.93	4235.05	-7229.00
<b>A16-17</b>	2.17	ELU5	-29585.94	5800.29	-648.27	-312.93	4937.68	-13454.35
<b>A16-17</b>	0.00	ELS3	-24339.42	4409.61	-26.25	-61.23	122.37	-358.86
<b>A16-17</b>	1.08	ELS3	-24362.27	4519.27	-26.25	-61.23	150.85	-5200.40
<b>A16-17</b>	2.17	ELS3	-24386.42	4635.17	-26.25	-61.23	179.32	-10164.27
<b>L1D-2D</b>	0.00	ELU5	1767.86	-995.80	-143.45	203.86	-157.60	-837.65
<b>L1D-2D</b>	1.25	ELU5	1768.22	-985.09	-143.45	203.86	21.72	400.40
<b>L1D-2D</b>	2.50	ELU5	1768.58	-974.38	-143.45	203.86	201.04	1625.07
<b>L1D-2D</b>	0.00	ELS3	1466.75	-820.24	-132.58	199.61	-136.15	-685.86
<b>L1D-2D</b>	1.25	ELS3	1467.11	-809.53	-132.58	199.61	29.58	332.75
<b>L1D-2D</b>	2.50	ELS3	1467.47	-798.82	-132.58	199.61	195.31	1337.97
<b>L1I-2I</b>	0.00	ELU5	1567.87	-885.77	80.15	-52.07	54.00	-757.46
<b>L1I-2I</b>	1.25	ELU5	1568.23	-875.06	80.15	-52.07	-46.19	343.06
<b>L1I-2I</b>	2.50	ELU5	1568.58	-864.35	80.15	-52.07	-146.38	1430.20

<b>L1I-2I</b>	0.00	ELS3	1448.16	-811.46	119.72	-167.67	119.39	-679.41
<b>L1I-2I</b>	1.25	ELS3	1448.51	-800.75	119.72	-167.67	-30.26	328.23
<b>L1I-2I</b>	2.50	ELS3	1448.87	-790.04	119.72	-167.67	-179.91	1322.47
<b>L2D-3D</b>	0.00	ELU5	5031.35	-622.07	157.59	-179.36	428.91	197.73
<b>L2D-3D</b>	1.25	ELU5	5031.70	-611.36	157.59	-179.36	231.92	968.63
<b>L2D-3D</b>	2.50	ELU5	5032.05	-600.65	157.59	-179.36	34.93	1726.14
<b>L2D-3D</b>	0.00	ELS3	4136.38	-509.41	122.55	-130.68	338.31	174.57
<b>L2D-3D</b>	1.25	ELS3	4136.73	-498.69	122.55	-130.68	185.12	804.63
<b>L2D-3D</b>	2.50	ELS3	4137.08	-487.98	122.55	-130.68	31.93	1421.30
<b>L2I-3I</b>	0.00	ELU5	4437.49	-552.74	-212.15	335.13	-468.28	162.07
<b>L2I-3I</b>	1.25	ELU5	4437.84	-542.03	-212.15	335.13	-203.09	846.30
<b>L2I-3I</b>	2.50	ELU5	4438.19	-531.31	-212.15	335.13	62.10	1517.14
<b>L2I-3I</b>	0.00	ELS3	4084.79	-503.30	-132.62	155.95	-347.82	171.93
<b>L2I-3I</b>	1.25	ELS3	4085.14	-492.59	-132.62	155.95	-182.05	794.36
<b>L2I-3I</b>	2.50	ELS3	4085.49	-481.88	-132.62	155.95	-16.28	1403.41
<b>L3D-4D</b>	0.00	ELU5	8210.19	-419.30	407.67	-722.43	556.22	1128.66
<b>L3D-4D</b>	1.25	ELU5	8210.51	-408.59	407.67	-722.43	46.63	1646.09
<b>L3D-4D</b>	2.50	ELU5	8210.82	-397.87	407.67	-722.43	-462.95	2150.13
<b>L3D-4D</b>	0.00	ELS3	6689.13	-333.83	331.87	-583.27	460.84	928.76
<b>L3D-4D</b>	1.25	ELS3	6689.44	-323.11	331.87	-583.27	46.00	1339.34
<b>L3D-4D</b>	2.50	ELS3	6689.75	-312.40	331.87	-583.27	-368.83	1736.54
<b>L3I-4I</b>	0.00	ELU5	7481.27	-381.90	-473.63	868.68	-651.57	1011.71
<b>L3I-4I</b>	1.25	ELU5	7481.58	-371.19	-473.63	868.68	-59.53	1482.38
<b>L3I-4I</b>	2.50	ELU5	7481.89	-360.47	-473.63	868.68	532.51	1939.67
<b>L3I-4I</b>	0.00	ELS3	6624.15	-331.56	-338.65	599.96	-469.14	918.14
<b>L3I-4I</b>	1.25	ELS3	6624.46	-320.85	-338.65	599.96	-45.82	1325.89
<b>L3I-4I</b>	2.50	ELS3	6624.77	-310.14	-338.65	599.96	377.49	1720.26
<b>L4D-5D</b>	0.00	ELU5	9660.15	-9.59	297.93	-535.51	404.32	1748.13
<b>L4D-5D</b>	1.25	ELU5	9660.45	1.12	297.93	-535.51	31.90	1753.42
<b>L4D-5D</b>	2.50	ELU5	9660.76	11.83	297.93	-535.51	-340.51	1745.33
<b>L4D-5D</b>	0.00	ELS3	7814.26	8.45	242.00	-436.94	324.01	1427.06
<b>L4D-5D</b>	1.25	ELS3	7814.57	19.16	242.00	-436.94	21.52	1409.80
<b>L4D-5D</b>	2.50	ELS3	7814.87	29.87	242.00	-436.94	-280.98	1379.16
<b>L4I-5I</b>	0.00	ELU5	8817.87	2.99	-336.31	641.13	-423.59	1586.58
<b>L4I-5I</b>	1.25	ELU5	8818.17	13.70	-336.31	641.13	-3.20	1576.15
<b>L4I-5I</b>	2.50	ELU5	8818.48	24.41	-336.31	641.13	417.19	1552.33
<b>L4I-5I</b>	0.00	ELS3	7742.41	9.17	-246.20	447.10	-327.45	1412.36
<b>L4I-5I</b>	1.25	ELS3	7742.71	19.88	-246.20	447.10	-19.70	1394.20



L4I-5I	2.50	ELS3	7743.02	30.59	-246.20	447.10	288.06	1362.65
L5D-6D	0.00	ELU5	9845.33	-12.80	211.62	-315.99	278.71	1792.16
L5D-6D	1.25	ELU5	9845.58	-2.09	211.62	-315.99	14.18	1801.46
L5D-6D	2.50	ELU5	9845.84	8.63	211.62	-315.99	-250.35	1797.38
L5D-6D	0.00	ELS3	7967.34	-26.97	171.56	-248.00	229.38	1429.04
L5D-6D	1.25	ELS3	7967.60	-16.26	171.56	-248.00	14.93	1456.06
L5D-6D	2.50	ELS3	7967.85	-5.55	171.56	-248.00	-199.53	1469.68
L5I-6I	0.00	ELU5	9049.95	-30.48	-236.44	375.51	-307.85	1597.95
L5I-6I	1.25	ELU5	9050.20	-19.77	-236.44	375.51	-12.30	1629.36
L5I-6I	2.50	ELU5	9050.46	-9.05	-236.44	375.51	283.25	1647.37
L5I-6I	0.00	ELS3	7899.50	-28.87	-173.79	252.95	-231.57	1411.78
L5I-6I	1.25	ELS3	7899.76	-18.15	-173.79	252.95	-14.33	1441.17
L5I-6I	2.50	ELS3	7900.01	-7.44	-173.79	252.95	202.91	1457.17
L6D-7D	0.00	ELU5	8907.45	432.24	178.96	-299.62	206.37	2084.01
L6D-7D	1.25	ELU5	8907.67	442.95	178.96	-299.62	-17.32	1537.01
L6D-7D	2.50	ELU5	8907.89	453.67	178.96	-299.62	-241.02	976.62
L6D-7D	0.00	ELS3	7257.68	343.81	137.56	-226.22	152.89	1692.01
L6D-7D	1.25	ELS3	7257.90	354.52	137.56	-226.22	-19.06	1255.55
L6D-7D	2.50	ELS3	7258.12	365.24	137.56	-226.22	-191.01	805.70
L6I-7I	0.00	ELU5	8278.29	389.32	-183.20	321.36	-195.80	1901.42
L6I-7I	1.25	ELU5	8278.52	400.03	-183.20	321.36	33.20	1408.08
L6I-7I	2.50	ELU5	8278.74	410.75	-183.20	321.36	262.20	901.34
L6I-7I	0.00	ELS3	7203.61	340.28	-137.85	227.25	-152.03	1676.12
L6I-7I	1.25	ELS3	7203.84	350.99	-137.85	227.25	20.28	1244.08
L6I-7I	2.50	ELS3	7204.06	361.70	-137.85	227.25	192.59	798.64
L7D-8D	0.00	ELU5	6192.79	889.65	98.53	-296.34	125.88	1772.59
L7D-8D	1.25	ELU5	6193.01	900.37	98.53	-296.34	2.72	653.83
L7D-8D	2.50	ELU5	6193.23	911.08	98.53	-296.34	-120.45	-478.32
L7D-8D	0.00	ELS3	5078.04	723.53	66.42	-211.21	85.70	1449.38
L7D-8D	1.25	ELS3	5078.27	734.25	66.42	-211.21	2.67	538.27
L7D-8D	2.50	ELS3	5078.49	744.96	66.42	-211.21	-80.36	-386.24
L7I-8I	0.00	ELU5	5850.66	817.81	-96.40	287.36	-120.77	1631.52
L7I-8I	1.25	ELU5	5850.88	828.52	-96.40	287.36	-0.27	602.56
L7I-8I	2.50	ELU5	5851.10	839.24	-96.40	287.36	120.23	-439.79
L7I-8I	0.00	ELS3	5045.86	717.99	-65.90	209.33	-84.59	1436.95
L7I-8I	1.25	ELS3	5046.09	728.70	-65.90	209.33	-2.22	532.77
L7I-8I	2.50	ELS3	5046.31	739.41	-65.90	209.33	80.15	-384.80
L8D-9D	0.00	ELU5	4578.11	-248.12	114.06	-104.34	149.30	213.95

L8D-9D	1.25	ELU5	4578.32	-237.41	114.06	-104.34	6.72	517.41
L8D-9D	2.50	ELU5	4578.53	-226.70	114.06	-104.34	-135.86	807.48
L8D-9D	0.00	ELS3	3801.95	-220.02	71.24	-34.93	91.67	172.54
L8D-9D	1.25	ELS3	3802.16	-209.31	71.24	-34.93	2.61	440.87
L8D-9D	2.50	ELS3	3802.37	-198.59	71.24	-34.93	-86.44	695.81
L8I-9I	0.00	ELU5	4429.38	-244.35	-102.02	93.04	-126.70	195.78
L8I-9I	1.25	ELU5	4429.59	-233.64	-102.02	93.04	0.84	494.53
L8I-9I	2.50	ELU5	4429.81	-222.93	-102.02	93.04	128.37	779.88
L8I-9I	0.00	ELS3	3784.25	-219.75	-69.82	32.45	-89.16	169.42
L8I-9I	1.25	ELS3	3784.46	-209.04	-69.82	32.45	-1.89	437.41
L8I-9I	2.50	ELS3	3784.67	-198.32	-69.82	32.45	85.38	692.02
10J5-6D	0.00	ELU5	-381.55	49.43	-11.88	0.14	-9.17	14.62
10J5-6D	0.81	ELU5	-382.31	58.59	-11.88	0.14	0.47	-29.20
10J5-6D	1.62	ELU5	-383.08	68.00	-11.88	0.14	10.12	-80.55
10J5-6D	0.00	ELS3	-368.99	52.90	-6.69	0.06	-5.14	9.16
10J5-6D	0.81	ELS3	-369.74	62.06	-6.69	0.06	0.29	-37.48
10J5-6D	1.62	ELS3	-370.51	71.47	-6.69	0.06	5.72	-91.65
10J5-6I	0.00	ELU5	-366.92	50.60	10.27	-0.12	7.91	15.25
10J5-6I	0.81	ELU5	-367.68	59.76	10.27	-0.12	-0.42	-29.52
10J5-6I	1.62	ELU5	-368.45	69.17	10.27	-0.12	-8.75	-81.82
10J5-6I	0.00	ELS3	-368.98	52.98	6.53	-0.06	5.01	9.13
10J5-6I	0.81	ELS3	-369.74	62.14	6.53	-0.06	-0.29	-37.57
10J5-6I	1.62	ELS3	-370.51	71.55	6.53	-0.06	-5.59	-91.81
10J6-7D	0.00	ELU5	-158.81	-28.70	-0.63	0.03	-0.10	-31.12
10J6-7D	1.06	ELU5	-157.86	-17.09	-0.63	0.03	0.57	-6.83
10J6-7D	2.13	ELU5	-156.94	-5.90	-0.63	0.03	1.25	5.34
10J6-7D	0.00	ELS3	-149.45	-29.34	0.08	0.00	0.44	-32.76
10J6-7D	1.06	ELS3	-148.49	-17.72	0.08	0.00	0.36	-7.80
10J6-7D	2.13	ELS3	-147.57	-6.54	0.08	0.00	0.28	5.06
10J6-7I	0.00	ELU5	-141.97	-28.48	0.51	-0.03	0.02	-30.12
10J6-7I	1.06	ELU5	-141.02	-16.87	0.51	-0.03	-0.52	-6.06
10J6-7I	2.13	ELU5	-140.10	-5.69	0.51	-0.03	-1.06	5.89
10J6-7I	0.00	ELS3	-149.47	-29.34	-0.10	0.00	-0.46	-32.76
10J6-7I	1.06	ELS3	-148.51	-17.73	-0.10	0.00	-0.36	-7.80
10J6-7I	2.13	ELS3	-147.59	-6.54	-0.10	0.00	-0.25	5.06
10T0-1D	0.00	ELU5	1619.69	-43.20	-5.06	0.08	-5.18	435.03
10T0-1D	1.06	ELU5	1619.41	-19.25	-5.06	0.08	0.20	468.20
10T0-1D	2.13	ELU5	1618.90	23.84	-5.06	0.08	5.58	467.56



10T0-1D	0.00	ELS3	1050.73	-20.68	-3.84	0.06	-3.96	307.20
10T0-1D	1.06	ELS3	1050.44	3.86	-3.84	0.06	0.12	316.14
10T0-1D	2.13	ELS3	1050.15	28.36	-3.84	0.06	4.20	299.02
10T0-1I	0.00	ELU5	1555.38	3.95	4.60	-0.07	4.79	467.05
10T0-1I	1.06	ELU5	1555.10	27.90	4.60	-0.07	-0.09	450.13
10T0-1I	2.13	ELU5	1554.81	51.80	4.60	-0.07	-4.98	407.78
10T0-1I	0.00	ELS3	1035.72	-6.34	3.77	-0.06	3.90	313.67
10T0-1I	1.06	ELS3	1035.51	11.30	3.77	-0.06	-0.11	311.03
10T0-1I	2.13	ELS3	1035.31	28.89	3.77	-0.06	-4.12	289.67
10T1-2D	0.00	ELU5	1614.86	45.68	1.74	-0.02	1.98	519.85
10T1-2D	1.06	ELU5	1614.30	92.84	1.74	-0.02	0.14	446.25
10T1-2D	2.00	ELU5	1613.81	134.42	1.74	-0.02	-1.49	339.72
10T1-2D	2.00	ELU5	1613.81	134.63	1.74	-0.02	-1.49	339.72
10T1-2D	2.13	ELU5	1613.74	140.17	1.74	-0.02	-1.71	322.55
10T1-2D	0.00	ELS3	1001.30	52.98	1.82	-0.02	2.06	356.66
10T1-2D	1.06	ELS3	1001.02	76.21	1.82	-0.02	0.13	287.49
10T1-2D	2.00	ELS3	1000.84	91.66	1.82	-0.02	-1.57	208.80
10T1-2D	2.00	ELS3	1000.84	91.87	1.82	-0.02	-1.57	208.80
10T1-2D	2.13	ELS3	1000.81	93.92	1.82	-0.02	-1.80	197.18
10T1-2I	0.00	ELU5	1456.01	79.30	-1.91	0.02	-2.24	499.64
10T1-2I	1.06	ELU5	1455.73	103.15	-1.91	0.02	-0.21	402.71
10T1-2I	2.00	ELU5	1455.48	124.17	-1.91	0.02	1.57	296.15
10T1-2I	2.00	ELU5	1455.48	124.37	-1.91	0.02	1.57	296.15
10T1-2I	2.13	ELU5	1455.45	127.17	-1.91	0.02	1.81	280.43
10T1-2I	0.00	ELS3	978.33	56.01	-1.88	0.02	-2.14	350.30
10T1-2I	1.06	ELS3	978.13	73.56	-1.88	0.02	-0.14	281.47
10T1-2I	2.00	ELS3	977.95	89.00	-1.88	0.02	1.62	205.26
10T1-2I	2.00	ELS3	977.94	89.21	-1.88	0.02	1.62	205.26
10T1-2I	2.13	ELS3	977.92	91.27	-1.88	0.02	1.86	193.98
10T2-3D	0.00	ELU5	1091.59	149.12	-1.88	0.03	-1.67	464.78
10T2-3D	1.06	ELU5	1091.24	179.32	-1.88	0.03	0.33	291.44
10T2-3D	2.00	ELU5	1090.90	208.17	-1.88	0.03	2.09	109.80
10T2-3D	2.00	ELU5	1090.51	240.97	-1.88	0.03	2.09	109.80
10T2-3D	2.13	ELU5	1090.48	243.94	-1.88	0.03	2.32	79.47
10T2-3D	0.00	ELS3	586.42	109.15	-0.83	0.02	-0.64	294.61
10T2-3D	1.06	ELS3	586.19	128.52	-0.83	0.02	0.24	168.68
10T2-3D	2.00	ELS3	585.98	146.24	-0.83	0.02	1.02	39.89
10T2-3D	2.00	ELS3	585.98	146.24	-0.83	0.02	1.02	39.89

10T2-3D	2.13	ELS3	585.97	147.72	-0.83	0.02	1.12	21.49
10T2-3I	0.00	ELU5	928.42	138.87	1.67	-0.03	1.53	414.62
10T2-3I	1.06	ELU5	928.06	169.08	1.67	-0.03	-0.24	252.18
10T2-3I	2.00	ELU5	927.72	197.92	1.67	-0.03	-1.81	80.14
10T2-3I	2.00	ELU5	927.72	197.92	1.67	-0.03	-1.81	80.14
10T2-3I	2.13	ELU5	927.69	200.89	1.67	-0.03	-2.02	55.20
10T2-3I	0.00	ELS3	571.18	106.73	0.79	-0.02	0.61	288.48
10T2-3I	1.06	ELS3	570.96	126.10	0.79	-0.02	-0.23	165.12
10T2-3I	2.00	ELS3	570.75	143.82	0.79	-0.02	-0.97	38.59
10T2-3I	2.00	ELS3	570.75	143.82	0.79	-0.02	-0.97	38.59
10T2-3I	2.13	ELS3	570.73	145.30	0.79	-0.02	-1.07	20.50
10T3-4D	0.00	ELU5	391.08	268.53	-3.24	0.07	-2.74	348.09
10T3-4D	0.81	ELU5	391.06	270.33	-3.24	0.07	-0.11	129.18
10T3-4D	1.38	ELU5	391.05	271.56	-3.24	0.07	1.71	-23.23
10T3-4D	1.38	ELU5	389.87	371.86	-3.24	0.07	1.71	-23.23
10T3-4D	1.63	ELU5	389.86	372.40	-3.24	0.07	2.52	-116.27
10T3-4D	0.00	ELS3	93.14	180.62	0.39	0.03	0.06	201.50
10T3-4D	0.81	ELS3	93.11	182.42	0.39	0.03	-0.26	54.02
10T3-4D	1.38	ELS3	93.10	183.65	0.39	0.03	-0.48	-48.94
10T3-4D	1.38	ELS3	91.92	283.94	0.39	0.03	-0.48	-48.94
10T3-4D	1.63	ELS3	91.91	284.49	0.39	0.03	-0.57	-120.00
10T3-4I	0.00	ELU5	298.91	230.82	2.27	-0.05	1.95	294.60
10T3-4I	0.81	ELU5	298.89	232.62	2.27	-0.05	0.10	106.33
10T3-4I	1.38	ELU5	298.87	233.84	2.27	-0.05	-1.17	-24.86
10T3-4I	1.38	ELU5	297.69	334.14	2.27	-0.05	-1.17	-24.86
10T3-4I	1.63	ELU5	297.69	334.69	2.27	-0.05	-1.74	-108.47
10T3-4I	0.00	ELS3	86.03	178.05	-0.51	-0.03	-0.15	197.74
10T3-4I	0.81	ELS3	86.01	179.85	-0.51	-0.03	0.26	52.35
10T3-4I	1.38	ELS3	85.99	181.08	-0.51	-0.03	0.54	-49.16
10T3-4I	1.38	ELS3	84.81	281.37	-0.51	-0.03	0.54	-49.16
10T3-4I	1.63	ELS3	84.81	281.92	-0.51	-0.03	0.67	-119.58
11J5-6D	0.00	ELU5	-471.22	115.89	-7.20	0.11	-5.59	25.72
11J5-6D	0.81	ELU5	-471.98	125.05	-7.20	0.11	0.25	-72.04
11J5-6D	1.62	ELU5	-472.75	134.46	-7.20	0.11	6.09	-177.34
11J5-6D	0.00	ELS3	-446.81	105.88	-1.76	0.01	-1.33	16.76
11J5-6D	0.81	ELS3	-447.56	115.04	-1.76	0.01	0.09	-72.88
11J5-6D	1.62	ELS3	-448.34	124.45	-1.76	0.01	1.52	-170.06
11J5-6I	0.00	ELU5	-444.21	111.08	6.18	-0.09	4.81	24.98





11J5-6I	0.81	ELU5	-444.96	120.24	6.18	-0.09	-0.21	-68.88
11J5-6I	1.62	ELU5	-445.73	129.65	6.18	-0.09	-5.22	-170.28
11J5-6I	0.00	ELS3	-446.20	105.61	1.63	-0.01	1.24	16.67
11J5-6I	0.81	ELS3	-446.96	114.77	1.63	-0.01	-0.09	-72.74
11J5-6I	1.62	ELS3	-447.73	124.18	1.63	-0.01	-1.41	-169.70
11J6-7D	0.00	ELU5	-148.40	-31.98	-1.65	0.06	-1.60	-36.75
11J6-7D	1.06	ELU5	-147.45	-20.37	-1.65	0.06	0.15	-8.98
11J6-7D	2.13	ELU5	-146.53	-9.18	-1.65	0.06	1.90	6.68
11J6-7D	0.00	ELS3	-144.98	-32.11	-0.36	0.01	-0.40	-37.65
11J6-7D	1.06	ELS3	-144.03	-20.50	-0.36	0.01	-0.01	-9.73
11J6-7D	2.13	ELS3	-143.10	-9.32	-0.36	0.01	0.37	6.07
11J6-7I	0.00	ELU5	-132.95	-31.57	1.38	-0.05	1.35	-35.47
11J6-7I	1.06	ELU5	-131.99	-19.95	1.38	-0.05	-0.12	-8.14
11J6-7I	2.13	ELU5	-131.07	-8.77	1.38	-0.05	-1.59	7.09
11J6-7I	0.00	ELS3	-145.00	-32.10	0.34	-0.01	0.37	-37.61
11J6-7I	1.06	ELS3	-144.04	-20.48	0.34	-0.01	0.02	-9.72
11J6-7I	2.13	ELS3	-143.12	-9.30	0.34	-0.01	-0.34	6.06
11T0-1D	0.00	ELU5	1840.69	-24.88	3.63	-0.06	3.98	502.78
11T0-1D	1.06	ELU5	1840.40	-0.93	3.63	-0.06	0.13	516.48
11T0-1D	2.13	ELU5	1839.90	42.16	3.63	-0.06	-3.73	496.37
11T0-1D	0.00	ELS3	1176.90	-4.94	3.03	-0.05	3.36	349.74
11T0-1D	1.06	ELS3	1176.61	19.60	3.03	-0.05	0.13	341.95
11T0-1D	2.13	ELS3	1176.33	44.10	3.03	-0.05	-3.09	308.11
11T0-1I	0.00	ELU5	1759.92	24.18	-3.36	0.05	-3.76	532.72
11T0-1I	1.06	ELU5	1759.64	48.13	-3.36	0.05	-0.19	494.31
11T0-1I	2.13	ELU5	1759.36	72.03	-3.36	0.05	3.38	430.47
11T0-1I	0.00	ELS3	1162.18	9.07	-3.10	0.05	-3.43	355.91
11T0-1I	1.06	ELS3	1161.97	26.71	-3.10	0.05	-0.14	336.90
11T0-1I	2.13	ELS3	1161.76	44.30	-3.10	0.05	3.15	299.17
11T1-2D	0.00	ELU5	1664.28	68.15	-3.29	0.05	-3.35	543.35
11T1-2D	1.06	ELU5	1663.72	115.31	-3.29	0.05	0.14	445.89
11T1-2D	2.00	ELU5	1663.23	156.89	-3.29	0.05	3.22	318.29
11T1-2D	2.00	ELU5	1663.23	157.09	-3.29	0.05	3.22	318.29
11T1-2D	2.13	ELU5	1663.17	162.64	-3.29	0.05	3.63	298.31
11T1-2D	0.00	ELS3	984.65	66.39	-1.76	0.03	-1.77	356.70
11T1-2D	1.06	ELS3	984.38	89.63	-1.76	0.03	0.10	273.28
11T1-2D	2.00	ELS3	984.20	105.08	-1.76	0.03	1.75	182.01
11T1-2D	2.00	ELS3	984.20	105.28	-1.76	0.03	1.75	182.01

11T1-2D	2.13	ELS3	984.17	107.34	-1.76	0.03	1.97	168.72
11T1-2I	0.00	ELU5	1483.89	97.85	2.95	-0.05	3.06	513.16
11T1-2I	1.06	ELU5	1483.61	121.70	2.95	-0.05	-0.07	396.51
11T1-2I	2.00	ELU5	1483.37	142.72	2.95	-0.05	-2.84	272.56
11T1-2I	2.00	ELU5	1483.36	142.92	2.95	-0.05	-2.84	272.56
11T1-2I	2.13	ELU5	1483.33	145.72	2.95	-0.05	-3.20	254.52
11T1-2I	0.00	ELS3	961.77	69.11	1.72	-0.03	1.74	350.01
11T1-2I	1.06	ELS3	961.56	86.65	1.72	-0.03	-0.09	267.26
11T1-2I	2.00	ELS3	961.38	102.10	1.72	-0.03	-1.69	178.78
11T1-2I	2.00	ELS3	961.38	102.31	1.72	-0.03	-1.69	178.78
11T1-2I	2.13	ELS3	961.35	104.37	1.72	-0.03	-1.91	165.86
11T2-3D	0.00	ELU5	1221.09	195.86	-0.91	0.02	-0.93	552.32
11T2-3D	1.06	ELU5	1220.74	226.06	-0.91	0.02	0.04	329.33
11T2-3D	2.00	ELU5	1220.40	254.91	-0.91	0.02	0.90	103.87
11T2-3D	2.00	ELU5	1220.01	287.71	-0.91	0.02	0.90	103.87
11T2-3D	2.13	ELU5	1219.98	290.68	-0.91	0.02	1.01	67.70
11T2-3D	0.00	ELS3	644.07	138.46	0.60	0.00	0.71	345.00
11T2-3D	1.06	ELS3	643.84	157.82	0.60	0.00	0.08	187.94
11T2-3D	2.00	ELS3	643.63	175.54	0.60	0.00	-0.48	31.67
11T2-3D	2.00	ELS3	643.63	175.54	0.60	0.00	-0.48	31.67
11T2-3D	2.13	ELS3	643.61	177.02	0.60	0.00	-0.56	9.62
11T2-3I	0.00	ELU5	1057.10	177.65	0.46	-0.01	0.42	492.80
11T2-3I	1.06	ELU5	1056.74	207.85	0.46	-0.01	-0.07	289.15
11T2-3I	2.00	ELU5	1056.40	236.70	0.46	-0.01	-0.51	80.76
11T2-3I	2.00	ELU5	1056.40	236.70	0.46	-0.01	-0.51	80.76
11T2-3I	2.13	ELU5	1056.37	239.67	0.46	-0.01	-0.57	50.97
11T2-3I	0.00	ELS3	629.54	135.67	-0.66	0.00	-0.78	338.56
11T2-3I	1.06	ELS3	629.31	155.03	-0.66	0.00	-0.08	184.47
11T2-3I	2.00	ELS3	629.10	172.75	-0.66	0.00	0.53	30.82
11T2-3I	2.00	ELS3	629.10	172.75	-0.66	0.00	0.53	30.82
11T2-3I	2.13	ELS3	629.08	174.23	-0.66	0.00	0.61	9.11
11T3-4D	0.00	ELU5	293.44	337.78	-5.87	0.05	-4.33	451.12
11T3-4D	0.81	ELU5	293.42	339.58	-5.87	0.05	0.44	175.94
11T3-4D	1.38	ELU5	293.41	340.81	-5.87	0.05	3.74	-15.42
11T3-4D	1.38	ELU5	292.23	441.11	-5.87	0.05	3.74	-15.42
11T3-4D	1.63	ELU5	292.22	441.65	-5.87	0.05	5.21	-125.78
11T3-4D	0.00	ELS3	-38.31	230.87	-0.02	0.01	0.02	264.47
11T3-4D	0.81	ELS3	-38.33	232.66	-0.02	0.01	0.03	76.16





11T3-4D	1.38	ELS3	-38.34	233.89	-0.02	0.01	0.04	-55.06
11T3-4D	1.38	ELS3	-39.52	334.19	-0.02	0.01	0.04	-55.06
11T3-4D	1.63	ELS3	-39.53	334.74	-0.02	0.01	0.05	-138.68
11T3-4I	0.00	ELU5	209.29	289.61	4.99	-0.04	3.70	382.72
11T3-4I	0.81	ELU5	209.27	291.41	4.99	-0.04	-0.36	146.68
11T3-4I	1.38	ELU5	209.26	292.64	4.99	-0.04	-3.17	-17.58
11T3-4I	1.38	ELU5	208.08	392.94	4.99	-0.04	-3.17	-17.58
11T3-4I	1.63	ELU5	208.07	393.48	4.99	-0.04	-4.41	-115.90
11T3-4I	0.00	ELS3	-43.68	227.75	-0.08	-0.01	-0.09	260.25
11T3-4I	0.81	ELS3	-43.70	229.55	-0.08	-0.01	-0.02	74.47
11T3-4I	1.38	ELS3	-43.72	230.78	-0.08	-0.01	0.03	-55.00
11T3-4I	1.38	ELS3	-44.90	331.08	-0.08	-0.01	0.03	-55.00
11T3-4I	1.63	ELS3	-44.91	331.62	-0.08	-0.01	0.05	-137.85
12J5-6D	0.00	ELU5	-352.38	52.13	-6.08	0.13	-4.77	18.11
12J5-6D	0.81	ELU5	-353.14	61.29	-6.08	0.13	0.16	-27.90
12J5-6D	1.62	ELU5	-353.91	70.70	-6.08	0.13	5.09	-81.45
12J5-6D	0.00	ELS3	-372.64	59.13	1.32	-0.02	1.05	11.20
12J5-6D	0.81	ELS3	-373.40	68.29	1.32	-0.02	-0.02	-40.50
12J5-6D	1.62	ELS3	-374.17	77.70	1.32	-0.02	-1.09	-99.72
12J5-6I	0.00	ELU5	-361.69	56.49	4.40	-0.10	3.43	16.49
12J5-6I	0.81	ELU5	-362.44	65.65	4.40	-0.10	-0.14	-33.06
12J5-6I	1.62	ELU5	-363.22	75.06	4.40	-0.10	-3.71	-90.14
12J5-6I	0.00	ELS3	-372.47	59.19	-1.42	0.02	-1.13	11.17
12J5-6I	0.81	ELS3	-373.23	68.35	-1.42	0.02	0.02	-40.58
12J5-6I	1.62	ELS3	-374.00	77.76	-1.42	0.02	1.17	-99.86
12J6-7D	0.00	ELU5	-153.40	-28.12	-3.01	0.12	-3.21	-29.30
12J6-7D	1.06	ELU5	-152.44	-16.51	-3.01	0.12	-0.01	-5.63
12J6-7D	2.13	ELU5	-151.52	-5.32	-3.01	0.12	3.19	5.93
12J6-7D	0.00	ELS3	-153.51	-29.38	-0.87	0.02	-1.13	-32.40
12J6-7D	1.06	ELS3	-152.55	-17.77	-0.87	0.02	-0.20	-7.40
12J6-7D	2.13	ELS3	-151.63	-6.58	-0.87	0.02	0.73	5.50
12J6-7I	0.00	ELU5	-145.09	-28.41	2.36	-0.09	2.55	-29.48
12J6-7I	1.06	ELU5	-144.13	-16.80	2.36	-0.09	0.04	-5.51
12J6-7I	2.13	ELU5	-143.21	-5.61	2.36	-0.09	-2.46	6.36
12J6-7I	0.00	ELS3	-153.38	-29.38	0.85	-0.02	1.10	-32.41
12J6-7I	1.06	ELS3	-152.43	-17.77	0.85	-0.02	0.20	-7.40
12J6-7I	2.13	ELS3	-151.51	-6.58	0.85	-0.02	-0.70	5.50
12T0-1D	0.00	ELU5	1887.45	-47.39	-4.19	0.06	-4.42	499.68

12T0-1D	1.06	ELU5	1887.17	-23.45	-4.19	0.06	0.03	537.31
12T0-1D	2.13	ELU5	1886.66	19.65	-4.19	0.06	4.48	541.13
12T0-1D	0.00	ELS3	1121.87	-15.66	-2.46	0.04	-2.56	327.54
12T0-1D	1.06	ELS3	1121.58	8.88	-2.46	0.04	0.06	331.14
12T0-1D	2.13	ELS3	1121.29	33.38	-2.46	0.04	2.68	308.69
12T0-1I	0.00	ELU5	1840.08	22.71	3.50	-0.06	3.74	560.57
12T0-1I	1.06	ELU5	1839.80	46.65	3.50	-0.06	0.02	523.71
12T0-1I	2.13	ELU5	1839.52	70.56	3.50	-0.06	-3.70	461.44
12T0-1I	0.00	ELS3	1107.02	-1.40	2.41	-0.04	2.52	333.96
12T0-1I	1.06	ELS3	1106.82	16.24	2.41	-0.04	-0.05	326.07
12T0-1I	2.13	ELS3	1106.61	33.83	2.41	-0.04	-2.61	299.47
12T1-2D	0.00	ELU5	1824.82	62.05	0.00	-0.01	0.05	588.84
12T1-2D	1.06	ELU5	1824.26	109.21	0.00	-0.01	0.06	497.86
12T1-2D	2.00	ELU5	1823.77	150.79	0.00	-0.01	0.06	375.98
12T1-2D	2.00	ELU5	1823.77	150.99	0.00	-0.01	0.06	375.98
12T1-2D	2.13	ELU5	1823.71	156.54	0.00	-0.01	0.06	356.76
12T1-2D	0.00	ELS3	1039.88	56.58	1.75	-0.03	1.98	365.10
12T1-2D	1.06	ELS3	1039.60	79.82	1.75	-0.03	0.12	292.11
12T1-2D	2.00	ELS3	1039.42	95.26	1.75	-0.03	-1.52	210.04
12T1-2D	2.00	ELS3	1039.42	95.47	1.75	-0.03	-1.52	210.04
12T1-2D	2.13	ELS3	1039.39	97.53	1.75	-0.03	-1.74	197.97
12T1-2I	0.00	ELU5	1688.77	100.26	0.34	0.00	0.25	577.98
12T1-2I	1.06	ELU5	1688.49	124.11	0.34	0.00	-0.11	458.77
12T1-2I	2.00	ELU5	1688.24	145.13	0.34	0.00	-0.43	332.56
12T1-2I	2.00	ELU5	1688.24	145.33	0.34	0.00	-0.43	332.56
12T1-2I	2.13	ELU5	1688.21	148.13	0.34	0.00	-0.47	314.22
12T1-2I	0.00	ELS3	1017.62	59.53	-1.81	0.03	-2.05	358.74
12T1-2I	1.06	ELS3	1017.42	77.08	-1.81	0.03	-0.13	286.16
12T1-2I	2.00	ELS3	1017.23	92.53	-1.81	0.03	1.56	206.65
12T1-2I	2.00	ELS3	1017.23	92.74	-1.81	0.03	1.56	206.65
12T1-2I	2.13	ELS3	1017.21	94.79	-1.81	0.03	1.79	194.93
12T2-3D	0.00	ELU5	1300.19	182.19	-3.19	0.06	-3.58	551.06
12T2-3D	1.06	ELU5	1299.83	212.40	-3.19	0.06	-0.18	342.59
12T2-3D	2.00	ELU5	1299.49	241.24	-3.19	0.06	2.81	129.94
12T2-3D	2.00	ELU5	1299.10	274.04	-3.19	0.06	2.81	129.94
12T2-3D	2.13	ELU5	1299.07	277.01	-3.19	0.06	3.21	95.48
12T2-3D	0.00	ELS3	633.92	114.46	-0.21	0.01	-0.31	309.81
12T2-3D	1.06	ELS3	633.69	133.83	-0.21	0.01	-0.09	178.24



12T2-3D	2.00	ELS3	633.49	151.54	-0.21	0.01	0.10	44.47
12T2-3D	2.00	ELS3	633.49	151.54	-0.21	0.01	0.10	44.47
12T2-3D	2.13	ELS3	633.47	153.03	-0.21	0.01	0.13	25.42
12T2-3I	0.00	ELU5	1109.47	162.96	3.68	-0.07	4.07	483.59
12T2-3I	1.06	ELU5	1109.11	193.16	3.68	-0.07	0.15	295.55
12T2-3I	2.00	ELU5	1108.77	222.01	3.68	-0.07	-3.30	100.94
12T2-3I	2.00	ELU5	1108.77	222.01	3.68	-0.07	-3.30	100.94
12T2-3I	2.13	ELU5	1108.74	224.98	3.68	-0.07	-3.76	72.98
12T2-3I	0.00	ELS3	619.47	111.98	0.18	-0.01	0.30	303.74
12T2-3I	1.06	ELS3	619.24	131.35	0.18	-0.01	0.10	174.81
12T2-3I	2.00	ELS3	619.03	149.06	0.18	-0.01	-0.07	43.37
12T2-3I	2.00	ELS3	619.03	149.06	0.18	-0.01	-0.07	43.37
12T2-3I	2.13	ELS3	619.02	150.55	0.18	-0.01	-0.09	24.62
12T3-4D	0.00	ELU5	562.47	295.35	-10.30	0.05	-7.32	405.60
12T3-4D	0.81	ELU5	562.45	297.15	-10.30	0.05	1.04	164.89
12T3-4D	1.38	ELU5	562.44	298.38	-10.30	0.05	6.83	-2.60
12T3-4D	1.38	ELU5	561.26	398.67	-10.30	0.05	6.83	-2.60
12T3-4D	1.63	ELU5	561.25	399.22	-10.30	0.05	9.41	-102.35
12T3-4D	0.00	ELS3	118.85	188.93	0.18	-0.02	0.43	209.57
12T3-4D	0.81	ELS3	118.83	190.72	0.18	-0.02	0.29	55.33
12T3-4D	1.38	ELS3	118.81	191.95	0.18	-0.02	0.19	-52.29
12T3-4D	1.38	ELS3	117.63	292.25	0.18	-0.02	0.19	-52.29
12T3-4D	1.63	ELS3	117.63	292.79	0.18	-0.02	0.15	-125.43
12T3-4I	0.00	ELU5	364.21	255.10	8.31	-0.05	5.92	323.80
12T3-4I	0.81	ELU5	364.19	256.90	8.31	-0.05	-0.83	115.79
12T3-4I	1.38	ELU5	364.17	258.13	8.31	-0.05	-5.51	-29.06
12T3-4I	1.38	ELU5	362.99	358.43	8.31	-0.05	-5.51	-29.06
12T3-4I	1.63	ELU5	362.99	358.97	8.31	-0.05	-7.59	-118.75
12T3-4I	0.00	ELS3	112.68	186.27	-0.32	0.02	-0.55	205.91
12T3-4I	0.81	ELS3	112.66	188.07	-0.32	0.02	-0.29	53.83
12T3-4I	1.38	ELS3	112.64	189.30	-0.32	0.02	-0.11	-52.30
12T3-4I	1.38	ELS3	111.46	289.59	-0.32	0.02	-0.11	-52.30
12T3-4I	1.63	ELS3	111.46	290.14	-0.32	0.02	-0.02	-124.78
13J5-6D	0.00	ELU5	-387.38	51.63	-10.82	0.20	-8.54	7.11
13J5-6D	0.81	ELU5	-388.13	60.79	-10.82	0.20	0.24	-38.50
13J5-6D	1.62	ELU5	-388.91	70.20	-10.82	0.20	9.02	-91.64
13J5-6D	0.00	ELS3	-356.73	55.70	-1.91	0.03	-1.51	9.95
13J5-6D	0.81	ELS3	-357.49	64.86	-1.91	0.03	0.04	-38.96

13J5-6D	1.62	ELS3	-358.26	74.27	-1.91	0.03	1.59	-95.41
13J5-6I	0.00	ELU5	-382.87	53.76	7.28	-0.13	5.73	9.88
13J5-6I	0.81	ELU5	-383.63	62.92	7.28	-0.13	-0.18	-37.45
13J5-6I	1.62	ELU5	-384.40	72.33	7.28	-0.13	-6.09	-92.33
13J5-6I	0.00	ELS3	-356.85	55.80	1.80	-0.03	1.43	9.91
13J5-6I	0.81	ELS3	-357.60	64.96	1.80	-0.03	-0.03	-39.08
13J5-6I	1.62	ELS3	-358.38	74.37	1.80	-0.03	-1.50	-95.61
13J6-7D	0.00	ELU5	-175.65	-28.84	-0.75	0.05	-0.33	-31.29
13J6-7D	1.06	ELU5	-174.70	-17.23	-0.75	0.05	0.47	-6.85
13J6-7D	2.13	ELU5	-173.78	-6.04	-0.75	0.05	1.26	5.47
13J6-7D	0.00	ELS3	-150.81	-28.85	0.56	-0.01	0.76	-31.29
13J6-7D	1.06	ELS3	-149.85	-17.24	0.56	-0.01	0.17	-6.84
13J6-7D	2.13	ELS3	-148.93	-6.06	0.56	-0.01	-0.42	5.50
13J6-7I	0.00	ELU5	-158.24	-28.55	0.29	-0.03	-0.04	-30.05
13J6-7I	1.06	ELU5	-157.29	-16.94	0.29	-0.03	-0.35	-5.92
13J6-7I	2.13	ELU5	-156.37	-5.75	0.29	-0.03	-0.67	6.09
13J6-7I	0.00	ELS3	-150.83	-28.87	-0.58	0.02	-0.78	-31.32
13J6-7I	1.06	ELS3	-149.88	-17.25	-0.58	0.02	-0.16	-6.86
13J6-7I	2.13	ELS3	-148.96	-6.07	-0.58	0.02	0.45	5.49
13T0-1D	0.00	ELU5	2374.96	-55.07	2.83	-0.05	2.76	630.22
13T0-1D	1.06	ELU5	2374.68	-31.13	2.83	-0.05	-0.24	676.01
13T0-1D	2.13	ELU5	2374.17	11.97	2.83	-0.05	-3.25	687.98
13T0-1D	0.00	ELS3	1169.83	-9.85	2.00	-0.03	2.18	343.02
13T0-1D	1.06	ELS3	1169.54	14.70	2.00	-0.03	0.05	340.44
13T0-1D	2.13	ELS3	1169.25	39.19	2.00	-0.03	-2.08	311.81
13T0-1I	0.00	ELU5	2176.23	57.18	2.29	-0.04	2.53	696.19
13T0-1I	1.06	ELU5	2175.95	81.13	2.29	-0.04	0.10	622.71
13T0-1I	2.13	ELU5	2175.67	105.03	2.29	-0.04	-2.33	523.81
13T0-1I	0.00	ELS3	1155.23	4.46	-2.06	0.03	-2.26	349.50
13T0-1I	1.06	ELS3	1155.02	22.10	-2.06	0.03	-0.07	335.39
13T0-1I	2.13	ELS3	1154.81	39.69	-2.06	0.03	2.11	302.56
13T1-2D	0.00	ELU5	2187.37	83.24	-6.85	0.11	-7.29	702.00
13T1-2D	1.06	ELU5	2186.81	130.41	-6.85	0.11	-0.02	588.50
13T1-2D	2.00	ELU5	2186.33	171.98	-6.85	0.11	6.40	446.75
13T1-2D	2.00	ELU5	2186.32	172.19	-6.85	0.11	6.40	446.75
13T1-2D	2.13	ELU5	2186.26	177.73	-6.85	0.11	7.26	424.88
13T1-2D	0.00	ELS3	1007.66	53.84	-1.56	0.03	-1.64	346.69
13T1-2D	1.06	ELS3	1007.38	77.07	-1.56	0.03	0.02	276.61



13T1-2D	2.00	ELS3	1007.20	92.52	-1.56	0.03	1.49	197.11
13T1-2D	2.00	ELS3	1007.20	92.73	-1.56	0.03	1.49	197.11
13T1-2D	2.13	ELS3	1007.18	94.78	-1.56	0.03	1.69	185.39
13T1-2I	0.00	ELU5	1737.62	122.75	7.51	-0.12	7.95	615.52
13T1-2I	1.06	ELU5	1737.34	146.61	7.51	-0.12	-0.03	472.42
13T1-2I	2.00	ELU5	1737.09	167.62	7.51	-0.12	-7.07	325.13
13T1-2I	2.00	ELU5	1737.09	167.83	7.51	-0.12	-7.07	325.13
13T1-2I	2.13	ELU5	1737.05	170.62	7.51	-0.12	-8.01	303.97
13T1-2I	0.00	ELS3	984.76	56.85	1.53	-0.03	1.62	340.37
13T1-2I	1.06	ELS3	984.56	74.40	1.53	-0.03	0.00	270.64
13T1-2I	2.00	ELS3	984.37	89.85	1.53	-0.03	-1.44	193.65
13T1-2I	2.00	ELS3	984.37	90.05	1.53	-0.03	-1.44	193.65
13T1-2I	2.13	ELS3	984.35	92.11	1.53	-0.03	-1.63	182.26
13T2-3D	0.00	ELU5	1488.62	228.34	-6.79	0.11	-7.07	647.85
13T2-3D	1.06	ELU5	1488.26	258.54	-6.79	0.11	0.15	390.34
13T2-3D	2.00	ELU5	1487.92	287.39	-6.79	0.11	6.52	134.43
13T2-3D	2.00	ELU5	1487.53	320.19	-6.79	0.11	6.52	134.43
13T2-3D	2.13	ELU5	1487.50	323.16	-6.79	0.11	7.37	94.20
13T2-3D	0.00	ELS3	680.45	116.02	0.44	-0.01	0.61	322.21
13T2-3D	1.06	ELS3	680.22	135.39	0.44	-0.01	0.15	188.98
13T2-3D	2.00	ELS3	680.01	153.10	0.44	-0.01	-0.27	53.75
13T2-3D	2.00	ELS3	680.01	153.10	0.44	-0.01	-0.27	53.75
13T2-3D	2.13	ELS3	679.99	154.59	0.44	-0.01	-0.32	34.50
13T2-3I	0.00	ELU5	1090.54	186.90	3.92	-0.06	3.97	510.30
13T2-3I	1.06	ELU5	1090.18	217.10	3.92	-0.06	-0.20	296.83
13T2-3I	2.00	ELU5	1089.84	245.94	3.92	-0.06	-3.87	79.78
13T2-3I	2.00	ELU5	1089.84	245.94	3.92	-0.06	-3.87	79.78
13T2-3I	2.13	ELU5	1089.81	248.91	3.92	-0.06	-4.37	48.83
13T2-3I	0.00	ELS3	665.97	113.56	-0.51	0.01	-0.70	316.16
13T2-3I	1.06	ELS3	665.75	132.93	-0.51	0.01	-0.16	185.56
13T2-3I	2.00	ELS3	665.54	150.64	-0.51	0.01	0.32	52.63
13T2-3I	2.00	ELS3	665.54	150.64	-0.51	0.01	0.32	52.63
13T2-3I	2.13	ELS3	665.52	152.12	-0.51	0.01	0.38	33.69
13T3-4D	0.00	ELU5	340.16	359.65	-15.19	0.15	-11.90	399.17
13T3-4D	0.81	ELU5	340.14	361.44	-15.19	0.15	0.44	106.22
13T3-4D	1.38	ELU5	340.13	362.67	-15.19	0.15	8.99	-97.43
13T3-4D	1.38	ELU5	338.95	462.97	-15.19	0.15	8.99	-97.43
13T3-4D	1.63	ELU5	338.94	463.51	-15.19	0.15	12.79	-213.25

13T3-4D	0.00	ELS3	131.15	188.27	-0.33	0.02	-0.49	207.49
13T3-4D	0.81	ELS3	131.13	190.06	-0.33	0.02	-0.22	53.79
13T3-4D	1.38	ELS3	131.12	191.29	-0.33	0.02	-0.03	-53.47
13T3-4D	1.38	ELS3	129.94	291.59	-0.33	0.02	-0.03	-53.47
13T3-4D	1.63	ELS3	129.93	292.13	-0.33	0.02	0.05	-126.44
13T3-4I	0.00	ELU5	170.61	290.72	8.06	-0.09	6.45	306.19
13T3-4I	0.81	ELU5	170.59	292.52	8.06	-0.09	-0.11	69.25
13T3-4I	1.38	ELU5	170.57	293.75	8.06	-0.09	-4.64	-95.63
13T3-4I	1.38	ELU5	169.39	394.04	8.06	-0.09	-4.64	-95.63
13T3-4I	1.63	ELU5	169.39	394.59	8.06	-0.09	-6.66	-194.23
13T3-4I	0.00	ELS3	124.89	185.68	0.25	-0.02	0.44	203.97
13T3-4I	0.81	ELS3	124.87	187.48	0.25	-0.02	0.24	52.37
13T3-4I	1.38	ELS3	124.85	188.71	0.25	-0.02	0.10	-53.43
13T3-4I	1.38	ELS3	123.67	289.01	0.25	-0.02	0.10	-53.43
13T3-4I	1.63	ELS3	123.66	289.55	0.25	-0.02	0.04	-125.76
14J5-6D	0.00	ELU5	-573.65	124.58	0.05	0.00	0.16	4.92
14J5-6D	0.81	ELU5	-574.41	133.74	0.05	0.00	0.13	-99.90
14J5-6D	1.62	ELU5	-575.18	143.15	0.05	0.00	0.09	-212.25
14J5-6D	0.00	ELS3	-441.83	106.18	0.35	-0.01	0.35	17.05
14J5-6D	0.81	ELS3	-442.58	115.33	0.35	-0.01	0.07	-72.83
14J5-6D	1.62	ELS3	-443.35	124.74	0.35	-0.01	-0.21	-170.24
14J5-6I	0.00	ELU5	-516.47	115.63	-0.72	0.01	-0.68	13.70
14J5-6I	0.81	ELU5	-517.22	124.79	-0.72	0.01	-0.10	-83.85
14J5-6I	1.62	ELU5	-518.00	134.20	-0.72	0.01	0.49	-188.94
14J5-6I	0.00	ELS3	-441.31	105.93	-0.45	0.01	-0.44	17.01
14J5-6I	0.81	ELS3	-442.07	115.09	-0.45	0.01	-0.08	-72.67
14J5-6I	1.62	ELS3	-442.84	124.50	-0.45	0.01	0.29	-169.89
14J6-7D	0.00	ELU5	-191.07	-34.24	0.58	-0.02	0.76	-42.45
14J6-7D	1.06	ELU5	-190.11	-22.63	0.58	-0.02	0.15	-12.27
14J6-7D	2.13	ELU5	-189.19	-11.45	0.58	-0.02	-0.46	5.80
14J6-7D	0.00	ELS3	-147.72	-32.31	0.48	-0.01	0.60	-38.10
14J6-7D	1.06	ELS3	-146.76	-20.70	0.48	-0.01	0.09	-9.98
14J6-7D	2.13	ELS3	-145.84	-9.51	0.48	-0.01	-0.42	6.03
14J6-7I	0.00	ELU5	-162.22	-32.95	-0.63	0.02	-0.79	-38.92
14J6-7I	1.06	ELU5	-161.26	-21.34	-0.63	0.02	-0.11	-10.11
14J6-7I	2.13	ELU5	-160.34	-10.16	-0.63	0.02	0.56	6.58
14J6-7I	0.00	ELS3	-147.49	-32.29	-0.49	0.01	-0.62	-38.07
14J6-7I	1.06	ELS3	-146.53	-20.68	-0.49	0.01	-0.09	-9.96



14J6-7I	2.13	ELS3	-145.61	-9.49	-0.49	0.01	0.43	6.03
14T0-1D	0.00	ELU5	2735.31	-139.37	-2.46	0.04	-2.55	666.77
14T0-1D	0.20	ELU5	2735.26	-134.86	-2.46	0.04	-2.06	694.19
14T0-1D	0.20	ELU5	2735.26	-134.86	-2.46	0.04	-2.06	694.19
14T0-1D	1.06	ELU5	2735.03	-115.42	-2.46	0.04	0.06	802.12
14T0-1D	1.55	ELU5	2734.82	-97.87	-2.46	0.04	1.26	854.73
14T0-1D	1.55	ELU5	2732.41	107.32	-2.46	0.04	1.26	854.73
14T0-1D	2.05	ELU5	2732.14	129.53	-2.46	0.04	2.48	795.52
14T0-1D	2.05	ELU5	2728.52	437.31	-2.46	0.04	2.48	795.52
14T0-1D	2.13	ELU5	2728.48	440.64	-2.46	0.04	2.67	762.59
14T0-1D	0.00	ELS3	1177.92	-8.55	-1.86	0.03	-1.95	341.88
14T0-1D	0.20	ELS3	1177.87	-3.92	-1.86	0.03	-1.58	343.13
14T0-1D	0.20	ELS3	1177.87	-3.92	-1.86	0.03	-1.58	343.13
14T0-1D	1.06	ELS3	1177.63	16.00	-1.86	0.03	0.02	337.92
14T0-1D	1.55	ELS3	1177.50	27.24	-1.86	0.03	0.93	327.38
14T0-1D	1.55	ELS3	1177.50	27.24	-1.86	0.03	0.93	327.38
14T0-1D	2.05	ELS3	1177.36	38.77	-1.86	0.03	1.86	310.88
14T0-1D	2.05	ELS3	1177.36	38.77	-1.86	0.03	1.86	310.88
14T0-1D	2.13	ELS3	1177.34	40.49	-1.86	0.03	2.00	307.91
14T0-1I	0.00	ELU5	2305.65	-55.25	2.07	-0.03	2.19	761.15
14T0-1I	0.20	ELU5	2305.60	-50.74	2.07	-0.03	1.78	771.75
14T0-1I	0.20	ELU5	2305.60	-50.74	2.07	-0.03	1.78	771.75
14T0-1I	0.45	ELU5	2305.53	-45.11	2.07	-0.03	1.26	783.73
14T0-1I	0.45	ELU5	2303.12	160.08	2.07	-0.03	1.26	783.73
14T0-1I	1.06	ELU5	2302.96	173.88	2.07	-0.03	-0.01	681.45
14T0-1I	2.13	ELU5	2302.68	197.78	2.07	-0.03	-2.20	484.01
14T0-1I	0.00	ELS3	1162.90	5.60	1.81	-0.03	1.94	348.22
14T0-1I	0.20	ELS3	1162.86	8.93	1.81	-0.03	1.58	346.76
14T0-1I	0.20	ELS3	1162.86	8.93	1.81	-0.03	1.58	346.76
14T0-1I	0.45	ELS3	1162.82	13.08	1.81	-0.03	1.12	344.01
14T0-1I	0.45	ELS3	1162.82	13.08	1.81	-0.03	1.12	344.01
14T0-1I	1.06	ELS3	1162.70	23.24	1.81	-0.03	0.01	332.89
14T0-1I	2.13	ELS3	1162.49	40.83	1.81	-0.03	-1.92	298.85
14T1-2D	0.00	ELU5	2623.07	133.82	1.24	-0.02	1.31	880.72
14T1-2D	0.08	ELU5	2623.03	137.15	1.24	-0.02	1.21	870.56
14T1-2D	0.08	ELU5	2623.03	137.15	1.24	-0.02	1.21	870.56
14T1-2D	1.06	ELU5	2622.51	180.99	1.24	-0.02	-0.01	713.47
14T1-2D	1.93	ELU5	2622.06	219.24	1.24	-0.02	-1.08	540.87

14T1-2D	1.93	ELU5	2618.44	527.02	1.24	-0.02	-1.08	540.87
14T1-2D	2.00	ELU5	2618.40	530.34	1.24	-0.02	-1.17	501.22
14T1-2D	2.00	ELU5	2618.40	530.55	1.24	-0.02	-1.17	501.22
14T1-2D	2.13	ELU5	2618.33	536.09	1.24	-0.02	-1.33	434.56
14T1-2D	0.00	ELS3	1061.58	71.16	1.12	-0.02	1.16	381.87
14T1-2D	0.08	ELS3	1061.56	72.89	1.12	-0.02	1.08	376.47
14T1-2D	0.08	ELS3	1061.56	72.89	1.12	-0.02	1.08	376.47
14T1-2D	1.06	ELS3	1061.31	94.40	1.12	-0.02	-0.03	293.38
14T1-2D	1.93	ELS3	1061.14	108.61	1.12	-0.02	-1.00	205.82
14T1-2D	1.93	ELS3	1061.14	108.61	1.12	-0.02	-1.00	205.82
14T1-2D	2.00	ELS3	1061.12	109.85	1.12	-0.02	-1.08	197.63
14T1-2D	2.00	ELS3	1061.12	110.05	1.12	-0.02	-1.08	197.63
14T1-2D	2.13	ELS3	1061.10	112.11	1.12	-0.02	-1.22	183.75
14T1-2I	0.00	ELU5	1755.82	189.92	-1.61	0.03	-1.71	705.23
14T1-2I	0.08	ELU5	1755.80	191.61	-1.61	0.03	-1.59	690.92
14T1-2I	0.08	ELU5	1755.80	191.61	-1.61	0.03	-1.59	690.92
14T1-2I	1.06	ELU5	1755.53	213.78	-1.61	0.03	-0.01	490.76
14T1-2I	2.00	ELU5	1755.29	234.79	-1.61	0.03	1.50	280.49
14T1-2I	2.00	ELU5	1755.28	235.00	-1.61	0.03	1.50	280.49
14T1-2I	2.12	ELU5	1755.25	237.80	-1.61	0.03	1.70	250.94
14T1-2I	0.00	ELS3	1039.30	73.99	-1.18	0.02	-1.25	375.36
14T1-2I	0.08	ELS3	1039.29	75.23	-1.18	0.02	-1.17	369.77
14T1-2I	0.08	ELS3	1039.29	75.23	-1.18	0.02	-1.17	369.77
14T1-2I	1.06	ELS3	1039.09	91.54	-1.18	0.02	0.00	287.42
14T1-2I	2.00	ELS3	1038.91	106.99	-1.18	0.02	1.11	194.36
14T1-2I	2.00	ELS3	1038.91	107.19	-1.18	0.02	1.11	194.36
14T1-2I	2.12	ELS3	1038.89	109.25	-1.18	0.02	1.26	180.83
14T2-3D	0.00	ELU5	1467.96	338.57	-1.50	0.02	-1.42	767.73
14T2-3D	1.06	ELU5	1467.61	368.77	-1.50	0.02	0.17	393.11
14T2-3D	2.00	ELU5	1467.27	397.61	-1.50	0.02	1.57	33.86
14T2-3D	2.00	ELU5	1466.88	430.42	-1.50	0.02	1.57	33.86
14T2-3D	2.13	ELU5	1466.84	433.39	-1.50	0.02	1.76	-20.15
14T2-3D	0.00	ELS3	628.46	138.36	-1.09	0.01	-1.05	336.56
14T2-3D	1.06	ELS3	628.23	157.73	-1.09	0.01	0.11	179.60
14T2-3D	2.00	ELS3	628.02	175.44	-1.09	0.01	1.13	23.42
14T2-3D	2.00	ELS3	628.02	175.44	-1.09	0.01	1.13	23.42
14T2-3D	2.13	ELS3	628.00	176.93	-1.09	0.01	1.26	1.38
14T2-3I	0.00	ELU5	914.23	249.09	1.13	-0.02	1.09	544.70





14T2-3I	1.06	ELU5	913.87	279.29	1.13	-0.02	-0.12	265.14
14T2-3I	2.00	ELU5	913.53	308.14	1.13	-0.02	-1.18	-10.22
14T2-3I	2.00	ELU5	913.53	308.14	1.13	-0.02	-1.18	-10.22
14T2-3I	2.13	ELU5	913.50	311.11	1.13	-0.02	-1.32	-48.94
14T2-3I	0.00	ELS3	613.77	135.74	1.07	-0.01	1.05	330.35
14T2-3I	1.06	ELS3	613.54	155.11	1.07	-0.01	-0.09	176.18
14T2-3I	2.00	ELS3	613.34	172.82	1.07	-0.01	-1.09	22.45
14T2-3I	2.00	ELS3	613.34	172.82	1.07	-0.01	-1.09	22.45
14T2-3I	2.13	ELS3	613.32	174.31	1.07	-0.01	-1.22	0.74
14T3-4D	0.00	ELU5	-135.28	531.94	1.08	-0.01	0.81	510.62
14T3-4D	0.81	ELU5	-135.30	533.74	1.08	-0.01	-0.07	77.68
14T3-4D	1.38	ELU5	-135.31	534.97	1.08	-0.01	-0.68	-222.89
14T3-4D	1.38	ELU5	-136.49	635.26	1.08	-0.01	-0.68	-222.89
14T3-4D	1.63	ELU5	-136.50	635.81	1.08	-0.01	-0.95	-381.79
14T3-4D	0.00	ELS3	-11.98	231.98	0.99	-0.01	0.74	268.29
14T3-4D	0.81	ELS3	-12.00	233.78	0.99	-0.01	-0.06	79.07
14T3-4D	1.38	ELS3	-12.02	235.00	0.99	-0.01	-0.62	-52.77
14T3-4D	1.38	ELS3	-13.20	335.30	0.99	-0.01	-0.62	-52.77
14T3-4D	1.63	ELS3	-13.21	335.85	0.99	-0.01	-0.86	-136.68
14T3-4I	0.00	ELU5	-156.07	394.52	-1.84	0.01	-1.39	390.71
14T3-4I	0.81	ELU5	-156.10	396.32	-1.84	0.01	0.10	69.42
14T3-4I	1.38	ELU5	-156.11	397.55	-1.84	0.01	1.13	-153.85
14T3-4I	1.38	ELU5	-157.29	497.85	-1.84	0.01	1.13	-153.85
14T3-4I	1.63	ELU5	-157.30	498.39	-1.84	0.01	1.59	-278.39
14T3-4I	0.00	ELS3	-17.61	229.06	-1.14	0.01	-0.87	264.25
14T3-4I	0.81	ELS3	-17.63	230.85	-1.14	0.01	0.05	77.40
14T3-4I	1.38	ELS3	-17.65	232.08	-1.14	0.01	0.69	-52.79
14T3-4I	1.38	ELS3	-18.83	332.38	-1.14	0.01	0.69	-52.79
14T3-4I	1.63	ELS3	-18.83	332.92	-1.14	0.01	0.98	-135.97
15J5-6D	0.00	ELU5	-426.32	50.77	14.58	-0.22	11.32	3.53
15J5-6D	0.81	ELU5	-427.07	59.93	14.58	-0.22	-0.51	-41.38
15J5-6D	1.62	ELU5	-427.84	69.34	14.58	-0.22	-12.34	-93.82
15J5-6D	0.00	ELS3	-384.01	55.00	5.36	-0.05	4.11	7.07
15J5-6D	0.81	ELS3	-384.76	64.16	5.36	-0.05	-0.24	-41.28
15J5-6D	1.62	ELS3	-385.54	73.57	5.36	-0.05	-4.60	-97.16
15J5-6I	0.00	ELU5	-416.24	52.89	-12.04	0.16	-9.30	6.35
15J5-6I	0.81	ELU5	-416.99	62.05	-12.04	0.16	0.47	-40.29
15J5-6I	1.62	ELU5	-417.77	71.46	-12.04	0.16	10.25	-94.45

15J5-6I	0.00	ELS3	-383.91	55.10	-5.42	0.05	-4.14	7.05
15J5-6I	0.81	ELS3	-384.67	64.25	-5.42	0.05	0.26	-41.36
15J5-6I	1.62	ELS3	-385.44	73.66	-5.42	0.05	4.66	-97.32
15J6-7D	0.00	ELU5	-167.79	-29.26	0.60	-0.04	-0.05	-32.73
15J6-7D	1.06	ELU5	-166.83	-17.65	0.60	-0.04	-0.68	-7.84
15J6-7D	2.13	ELU5	-165.91	-6.46	0.60	-0.04	-1.32	4.93
15J6-7D	0.00	ELS3	-144.21	-29.16	-0.59	0.02	-0.96	-32.37
15J6-7D	1.06	ELS3	-143.26	-17.55	-0.59	0.02	-0.33	-7.59
15J6-7D	2.13	ELS3	-142.34	-6.36	-0.59	0.02	0.29	5.07
15J6-7I	0.00	ELU5	-150.49	-28.95	-0.42	0.03	0.15	-31.42
15J6-7I	1.06	ELU5	-149.54	-17.34	-0.42	0.03	0.60	-6.86
15J6-7I	2.13	ELU5	-148.61	-6.15	-0.42	0.03	1.05	5.58
15J6-7I	0.00	ELS3	-144.44	-29.17	0.56	-0.02	0.93	-32.41
15J6-7I	1.06	ELS3	-143.48	-17.56	0.56	-0.02	0.34	-7.62
15J6-7I	2.13	ELS3	-142.56	-6.38	0.56	-0.02	-0.25	5.07
15T0-1D	0.00	ELU5	2359.38	-57.40	1.23	-0.02	1.61	623.08
15T0-1D	1.06	ELU5	2359.10	-33.45	1.23	-0.02	0.30	671.34
15T0-1D	2.13	ELU5	2358.59	9.64	1.23	-0.02	-1.01	685.78
15T0-1D	0.00	ELS3	1152.08	-11.43	1.55	-0.03	1.61	336.76
15T0-1D	1.06	ELS3	1151.79	13.11	1.55	-0.03	-0.04	335.86
15T0-1D	2.13	ELS3	1151.50	37.61	1.55	-0.03	-1.69	308.92
15T0-1I	0.00	ELU5	2159.27	56.10	-7.11	0.11	-7.79	689.99
15T0-1I	1.06	ELU5	2158.99	80.04	-7.11	0.11	-0.23	617.67
15T0-1I	2.13	ELU5	2158.71	103.94	-7.11	0.11	7.32	519.92
15T0-1I	0.00	ELS3	1137.48	3.01	-1.60	0.03	-1.71	343.32
15T0-1I	1.06	ELS3	1137.28	20.65	-1.60	0.03	-0.01	330.74
15T0-1I	2.13	ELS3	1137.07	38.24	-1.60	0.03	1.69	299.45
15T1-2D	0.00	ELU5	2187.73	81.51	3.38	-0.06	3.75	700.45
15T1-2D	1.06	ELU5	2187.18	128.68	3.38	-0.06	0.16	588.78
15T1-2D	2.00	ELU5	2186.69	170.26	3.38	-0.06	-3.01	448.65
15T1-2D	2.00	ELU5	2186.69	170.46	3.38	-0.06	-3.01	448.65
15T1-2D	2.13	ELU5	2186.62	176.00	3.38	-0.06	-3.43	427.00
15T1-2D	0.00	ELS3	1003.10	52.65	-1.01	0.01	-1.02	344.93
15T1-2D	1.06	ELS3	1002.82	75.88	-1.01	0.01	0.05	276.11
15T1-2D	2.00	ELS3	1002.64	91.33	-1.01	0.01	1.00	197.73
15T1-2D	2.00	ELS3	1002.64	91.54	-1.01	0.01	1.00	197.73
15T1-2D	2.13	ELS3	1002.62	93.60	-1.01	0.01	1.12	186.16
15T1-2I	0.00	ELU5	1733.54	122.21	-4.75	0.08	-5.05	614.38





15T1-2I	1.06	ELU5	1733.26	146.06	-4.75	0.08	-0.01	471.86
15T1-2I	2.00	ELU5	1733.01	167.08	-4.75	0.08	4.45	325.08
15T1-2I	2.00	ELU5	1733.01	167.28	-4.75	0.08	4.45	325.08
15T1-2I	2.13	ELU5	1732.98	170.08	-4.75	0.08	5.04	303.99
15T1-2I	0.00	ELS3	979.66	55.81	0.99	-0.01	1.04	338.76
15T1-2I	1.06	ELS3	979.45	73.36	0.99	-0.01	0.00	270.14
15T1-2I	2.00	ELS3	979.27	88.81	0.99	-0.01	-0.93	194.12
15T1-2I	2.00	ELS3	979.27	89.01	0.99	-0.01	-0.93	194.12
15T1-2I	2.13	ELS3	979.24	91.07	0.99	-0.01	-1.05	182.87
15T2-3D	0.00	ELU5	1485.05	224.68	8.79	-0.15	9.13	638.55
15T2-3D	1.06	ELU5	1484.70	254.88	8.79	-0.15	-0.21	384.94
15T2-3D	2.00	ELU5	1484.36	283.73	8.79	-0.15	-8.45	132.46
15T2-3D	2.00	ELU5	1483.97	316.53	8.79	-0.15	-8.45	132.46
15T2-3D	2.13	ELU5	1483.94	319.50	8.79	-0.15	-9.55	92.69
15T2-3D	0.00	ELS3	673.70	113.20	1.33	-0.02	1.20	314.51
15T2-3D	1.06	ELS3	673.48	132.56	1.33	-0.02	-0.21	184.29
15T2-3D	2.00	ELS3	673.27	150.28	1.33	-0.02	-1.46	51.70
15T2-3D	2.00	ELS3	673.27	150.28	1.33	-0.02	-1.46	51.70
15T2-3D	2.13	ELS3	673.25	151.76	1.33	-0.02	-1.62	32.80
15T2-3I	0.00	ELU5	1080.19	184.37	-6.54	0.11	-6.74	501.12
15T2-3I	1.06	ELU5	1079.83	214.57	-6.54	0.11	0.21	290.34
15T2-3I	2.00	ELU5	1079.49	243.41	-6.54	0.11	6.34	75.66
15T2-3I	2.00	ELU5	1079.49	243.41	-6.54	0.11	6.34	75.66
15T2-3I	2.13	ELU5	1079.46	246.38	-6.54	0.11	7.16	45.03
15T2-3I	0.00	ELS3	658.96	110.87	-1.41	0.02	-1.32	308.60
15T2-3I	1.06	ELS3	658.74	130.24	-1.41	0.02	0.18	180.85
15T2-3I	2.00	ELS3	658.53	147.95	-1.41	0.02	1.50	50.44
15T2-3I	2.00	ELS3	658.53	147.95	-1.41	0.02	1.50	50.44
15T2-3I	2.13	ELS3	658.51	149.44	-1.41	0.02	1.67	31.83
15T3-4D	0.00	ELU5	301.60	356.43	12.09	-0.14	9.60	393.08
15T3-4D	0.81	ELU5	301.58	358.23	12.09	-0.14	-0.23	102.74
15T3-4D	1.38	ELU5	301.57	359.46	12.09	-0.14	-7.03	-99.10
15T3-4D	1.38	ELU5	300.39	459.76	12.09	-0.14	-7.03	-99.10
15T3-4D	1.63	ELU5	300.38	460.30	12.09	-0.14	-10.05	-214.13
15T3-4D	0.00	ELS3	102.02	185.74	-1.65	-0.02	-0.99	202.50
15T3-4D	0.81	ELS3	102.00	187.54	-1.65	-0.02	0.35	50.85
15T3-4D	1.38	ELS3	101.98	188.77	-1.65	-0.02	1.28	-54.99
15T3-4D	1.38	ELS3	100.80	289.07	-1.65	-0.02	1.28	-54.99

15T3-4D	1.63	ELS3	100.80	289.61	-1.65	-0.02	1.69	-127.33
15T3-4I	0.00	ELU5	129.37	288.81	-6.87	0.09	-5.53	299.76
15T3-4I	0.81	ELU5	129.35	290.61	-6.87	0.09	0.06	64.36
15T3-4I	1.38	ELU5	129.33	291.84	-6.87	0.09	3.92	-99.45
15T3-4I	1.38	ELU5	128.15	392.14	-6.87	0.09	3.92	-99.45
15T3-4I	1.63	ELU5	128.15	392.68	-6.87	0.09	5.64	-197.57
15T3-4I	0.00	ELS3	95.45	183.31	1.58	0.02	0.96	199.12
15T3-4I	0.81	ELS3	95.43	185.11	1.58	0.02	-0.32	49.44
15T3-4I	1.38	ELS3	95.42	186.34	1.58	0.02	-1.21	-55.02
15T3-4I	1.38	ELS3	94.24	286.64	1.58	0.02	-1.21	-55.02
15T3-4I	1.63	ELS3	94.23	287.18	1.58	0.02	-1.60	-126.76
16J5-6D	0.00	ELU5	-279.86	43.58	8.83	-0.14	6.69	11.70
16J5-6D	0.81	ELU5	-280.61	52.74	8.83	-0.14	-0.47	-27.37
16J5-6D	1.62	ELU5	-281.39	62.15	8.83	-0.14	-7.63	-73.98
16J5-6D	0.00	ELS3	-316.73	52.36	1.26	0.01	0.78	5.94
16J5-6D	0.81	ELS3	-317.49	61.52	1.26	0.01	-0.24	-40.26
16J5-6D	1.62	ELS3	-318.26	70.93	1.26	0.01	-1.26	-93.99
16J5-6I	0.00	ELU5	-295.14	48.34	-8.48	0.12	-6.45	10.02
16J5-6I	0.81	ELU5	-295.90	57.50	-8.48	0.12	0.44	-32.91
16J5-6I	1.62	ELU5	-296.67	66.91	-8.48	0.12	7.32	-83.38
16J5-6I	0.00	ELS3	-317.25	52.41	-1.39	-0.01	-0.91	5.98
16J5-6I	0.81	ELS3	-318.00	61.57	-1.39	-0.01	0.22	-40.25
16J5-6I	1.62	ELS3	-318.77	70.98	-1.39	-0.01	1.35	-94.03
16J6-7D	0.00	ELU5	-161.92	-28.02	3.37	-0.14	3.24	-30.12
16J6-7D	1.06	ELU5	-160.96	-16.40	3.37	-0.14	-0.34	-6.56
16J6-7D	2.13	ELU5	-160.04	-5.22	3.37	-0.14	-3.92	4.90
16J6-7D	0.00	ELS3	-159.86	-29.37	1.26	-0.04	1.24	-33.22
16J6-7D	1.06	ELS3	-158.90	-17.76	1.26	-0.04	-0.10	-8.23
16J6-7D	2.13	ELS3	-157.98	-6.57	1.26	-0.04	-1.44	4.66
16J6-7I	0.00	ELU5	-150.97	-28.38	-2.98	0.12	-2.87	-30.41
16J6-7I	1.06	ELU5	-150.02	-16.76	-2.98	0.12	0.30	-6.47
16J6-7I	2.13	ELU5	-149.09	-5.58	-2.98	0.12	3.47	5.36
16J6-7I	0.00	ELS3	-159.18	-29.35	-1.26	0.04	-1.26	-33.19
16J6-7I	1.06	ELS3	-158.22	-17.74	-1.26	0.04	0.08	-8.21
16J6-7I	2.13	ELS3	-157.30	-6.56	-1.26	0.04	1.43	4.66
16T0-1D	0.00	ELU5	1849.78	-49.03	-0.79	0.01	-0.80	487.84
16T0-1D	1.06	ELU5	1849.50	-25.09	-0.79	0.01	0.04	527.22
16T0-1D	2.13	ELU5	1848.99	18.01	-0.79	0.01	0.88	532.77



16T0-1D	0.00	ELS3	1084.60	-16.24	-1.30	0.02	-1.39	318.03
16T0-1D	1.06	ELS3	1084.31	8.30	-1.30	0.02	-0.02	322.25
16T0-1D	2.13	ELS3	1084.02	32.80	-1.30	0.02	1.36	300.41
16T0-1I	0.00	ELU5	1799.68	23.81	0.63	-0.01	0.68	551.33
16T0-1I	1.06	ELU5	1799.40	47.75	0.63	-0.01	0.01	513.31
16T0-1I	2.13	ELU5	1799.12	71.66	0.63	-0.01	-0.66	449.87
16T0-1I	0.00	ELS3	1069.34	-1.64	1.25	-0.02	1.42	324.98
16T0-1I	1.06	ELS3	1069.13	16.00	1.25	-0.02	0.09	317.34
16T0-1I	2.13	ELS3	1068.92	33.59	1.25	-0.02	-1.23	290.99
16T1-2D	0.00	ELU5	1772.25	54.91	2.97	-0.05	3.23	565.64
16T1-2D	1.06	ELU5	1771.70	102.07	2.97	-0.05	0.07	482.24
16T1-2D	2.00	ELU5	1771.21	143.65	2.97	-0.05	-2.72	367.05
16T1-2D	2.00	ELU5	1771.21	143.86	2.97	-0.05	-2.72	367.05
16T1-2D	2.13	ELU5	1771.14	149.40	2.97	-0.05	-3.09	348.72
16T1-2D	0.00	ELS3	989.83	51.37	0.89	-0.02	0.89	346.22
16T1-2D	1.06	ELS3	989.56	74.61	0.89	-0.02	-0.05	278.76
16T1-2D	2.00	ELS3	989.38	90.06	0.89	-0.02	-0.88	201.57
16T1-2D	2.00	ELS3	989.37	90.26	0.89	-0.02	-0.88	201.57
16T1-2D	2.13	ELS3	989.35	92.32	0.89	-0.02	-0.99	190.15
16T1-2I	0.00	ELU5	1629.14	95.76	-4.13	0.06	-4.47	556.21
16T1-2I	1.06	ELU5	1628.86	119.62	-4.13	0.06	-0.08	441.78
16T1-2I	2.00	ELU5	1628.62	140.63	-4.13	0.06	3.80	319.79
16T1-2I	2.00	ELU5	1628.61	140.84	-4.13	0.06	3.80	319.79
16T1-2I	2.13	ELU5	1628.58	143.64	-4.13	0.06	4.31	302.01
16T1-2I	0.00	ELS3	967.57	54.66	-0.96	0.02	-1.04	340.22
16T1-2I	1.06	ELS3	967.37	72.21	-0.96	0.02	-0.02	272.81
16T1-2I	2.00	ELS3	967.18	87.65	-0.96	0.02	0.88	197.88
16T1-2I	2.00	ELS3	967.18	87.86	-0.96	0.02	0.88	197.88
16T1-2I	2.13	ELS3	967.16	89.92	-0.96	0.02	1.00	186.77
16T2-3D	0.00	ELU5	1286.57	174.30	1.44	-0.03	1.66	538.66
16T2-3D	1.06	ELU5	1286.21	204.50	1.44	-0.03	0.12	338.57
16T2-3D	2.00	ELU5	1285.87	233.35	1.44	-0.03	-1.23	133.32
16T2-3D	2.00	ELU5	1285.49	266.15	1.44	-0.03	-1.23	133.32
16T2-3D	2.13	ELU5	1285.45	269.12	1.44	-0.03	-1.41	99.85
16T2-3D	0.00	ELS3	616.69	108.51	-1.01	0.01	-1.04	299.53
16T2-3D	1.06	ELS3	616.46	127.87	-1.01	0.01	0.03	174.29
16T2-3D	2.00	ELS3	616.25	145.59	-1.01	0.01	0.97	46.11
16T2-3D	2.00	ELS3	616.25	145.59	-1.01	0.01	0.97	46.11

16T2-3D	2.13	ELS3	616.24	147.07	-1.01	0.01	1.10	27.79
16T2-3I	0.00	ELU5	1084.41	157.63	-2.66	0.05	-2.86	471.75
16T2-3I	1.06	ELU5	1084.06	187.83	-2.66	0.05	-0.03	289.38
16T2-3I	2.00	ELU5	1083.72	216.68	-2.66	0.05	2.46	99.76
16T2-3I	2.00	ELU5	1083.72	216.68	-2.66	0.05	2.46	99.76
16T2-3I	2.13	ELU5	1083.68	219.65	-2.66	0.05	2.80	72.47
16T2-3I	0.00	ELS3	600.99	106.38	1.01	-0.01	1.10	293.83
16T2-3I	1.06	ELS3	600.76	125.75	1.01	-0.01	0.02	170.85
16T2-3I	2.00	ELS3	600.55	143.47	1.01	-0.01	-0.93	44.65
16T2-3I	2.00	ELS3	600.55	143.47	1.01	-0.01	-0.93	44.65
16T2-3I	2.13	ELS3	600.54	144.95	1.01	-0.01	-1.06	26.60
16T3-4D	0.00	ELU5	607.61	279.42	10.25	-0.08	7.57	390.35
16T3-4D	0.81	ELU5	607.59	281.22	10.25	-0.08	-0.76	162.58
16T3-4D	1.38	ELU5	607.58	282.45	10.25	-0.08	-6.53	4.06
16T3-4D	1.38	ELU5	606.40	382.75	10.25	-0.08	-6.53	4.06
16T3-4D	1.63	ELU5	606.39	383.29	10.25	-0.08	-9.09	-91.71
16T3-4D	0.00	ELS3	148.47	176.75	0.37	0.00	0.17	197.03
16T3-4D	0.81	ELS3	148.44	178.55	0.37	0.00	-0.13	52.68
16T3-4D	1.38	ELS3	148.43	179.78	0.37	0.00	-0.34	-48.09
16T3-4D	1.38	ELS3	147.25	280.08	0.37	0.00	-0.34	-48.09
16T3-4D	1.63	ELS3	147.24	280.62	0.37	0.00	-0.43	-118.19
16T3-4I	0.00	ELU5	390.44	242.86	-10.45	0.08	-7.81	308.24
16T3-4I	0.81	ELU5	390.42	244.66	-10.45	0.08	0.68	110.18
16T3-4I	1.38	ELU5	390.40	245.89	-10.45	0.08	6.55	-27.78
16T3-4I	1.38	ELU5	389.22	346.19	-10.45	0.08	6.55	-27.78
16T3-4I	1.63	ELU5	389.22	346.73	-10.45	0.08	9.17	-114.41
16T3-4I	0.00	ELS3	141.09	174.51	-0.58	0.00	-0.37	193.60
16T3-4I	0.81	ELS3	141.07	176.31	-0.58	0.00	0.11	51.07
16T3-4I	1.38	ELS3	141.05	177.54	-0.58	0.00	0.43	-48.45
16T3-4I	1.38	ELS3	139.87	277.84	-0.58	0.00	0.43	-48.45
16T3-4I	1.63	ELS3	139.87	278.38	-0.58	0.00	0.58	-117.98
17J5-6D	0.00	ELU5	-458.26	105.63	7.20	-0.15	5.99	13.84
17J5-6D	0.81	ELU5	-459.01	114.79	7.20	-0.15	0.15	-75.59
17J5-6D	1.62	ELU5	-459.78	124.20	7.20	-0.15	-5.70	-172.56
17J5-6D	0.00	ELS3	-435.09	97.93	2.46	-0.05	2.20	6.94
17J5-6D	0.81	ELS3	-435.85	107.08	2.46	-0.05	0.21	-76.24
17J5-6D	1.62	ELS3	-436.62	116.49	2.46	-0.05	-1.79	-166.96
17J5-6I	0.00	ELU5	-431.56	101.96	-8.15	0.15	-6.68	13.19



17J5-6I	0.81	ELU5	-432.32	111.12	-8.15	0.15	-0.06	-73.26
17J5-6I	1.62	ELU5	-433.09	120.53	-8.15	0.15	6.55	-167.25
17J5-6I	0.00	ELS3	-434.74	97.82	-2.55	0.05	-2.24	6.93
17J5-6I	0.81	ELS3	-435.49	106.98	-2.55	0.05	-0.17	-76.17
17J5-6I	1.62	ELS3	-436.27	116.39	-2.55	0.05	1.91	-166.80
17J6-7D	0.00	ELU5	-134.04	-30.50	1.78	-0.06	2.16	-34.76
17J6-7D	1.06	ELU5	-133.09	-18.89	1.78	-0.06	0.27	-8.56
17J6-7D	2.13	ELU5	-132.17	-7.71	1.78	-0.06	-1.61	5.53
17J6-7D	0.00	ELS3	-132.13	-31.01	0.56	-0.01	0.93	-36.25
17J6-7D	1.06	ELS3	-131.17	-19.40	0.56	-0.01	0.34	-9.51
17J6-7D	2.13	ELS3	-130.25	-8.22	0.56	-0.01	-0.26	5.13
17J6-7I	0.00	ELU5	-118.86	-30.40	-1.92	0.07	-2.22	-34.13
17J6-7I	1.06	ELU5	-117.91	-18.79	-1.92	0.07	-0.17	-8.04
17J6-7I	2.13	ELU5	-116.99	-7.61	-1.92	0.07	1.87	5.95
17J6-7I	0.00	ELS3	-133.05	-31.04	-0.62	0.01	-0.95	-36.33
17J6-7I	1.06	ELS3	-132.09	-19.43	-0.62	0.01	-0.29	-9.55
17J6-7I	2.13	ELS3	-131.17	-8.25	-0.62	0.01	0.37	5.11
17T0-1D	0.00	ELU5	1735.70	-33.50	0.72	-0.02	0.75	474.07
17T0-1D	1.06	ELU5	1735.42	-9.55	0.72	-0.02	-0.01	496.93
17T0-1D	2.13	ELU5	1734.91	33.54	0.72	-0.02	-0.77	485.98
17T0-1D	0.00	ELS3	1095.87	-10.39	0.87	-0.02	0.86	328.38
17T0-1D	1.06	ELS3	1095.58	14.15	0.87	-0.02	-0.07	326.37
17T0-1D	2.13	ELS3	1095.29	38.65	0.87	-0.02	-0.99	298.32
17T0-1I	0.00	ELU5	1653.54	20.11	-2.09	0.03	-2.27	508.06
17T0-1I	1.06	ELU5	1653.26	44.06	-2.09	0.03	-0.05	473.97
17T0-1I	2.13	ELU5	1652.98	67.96	-2.09	0.03	2.17	414.46
17T0-1I	0.00	ELS3	1081.35	4.22	-0.93	0.02	-1.04	334.96
17T0-1I	1.06	ELS3	1081.14	21.86	-0.93	0.02	-0.05	321.10
17T0-1I	2.13	ELS3	1080.94	39.45	-0.93	0.02	0.93	288.52
17T1-2D	0.00	ELU5	1620.51	58.52	-0.61	0.01	-0.77	529.52
17T1-2D	1.06	ELU5	1619.96	105.69	-0.61	0.01	-0.12	442.28
17T1-2D	2.00	ELU5	1619.47	147.27	-0.61	0.01	0.46	323.71
17T1-2D	2.00	ELU5	1619.47	147.47	-0.61	0.01	0.46	323.71
17T1-2D	2.13	ELU5	1619.40	153.01	-0.61	0.01	0.53	304.93
17T1-2D	0.00	ELS3	952.01	60.17	-1.08	0.02	-1.24	346.87
17T1-2D	1.06	ELS3	951.74	83.41	-1.08	0.02	-0.09	270.06
17T1-2D	2.00	ELS3	951.56	98.85	-1.08	0.02	0.93	184.62
17T1-2D	2.00	ELS3	951.55	99.06	-1.08	0.02	0.93	184.62

17T1-2D	2.13	ELS3	951.53	101.12	-1.08	0.02	1.07	172.11
17T1-2I	0.00	ELU5	1433.38	92.77	-0.06	0.00	0.11	502.61
17T1-2I	1.06	ELU5	1433.10	116.63	-0.06	0.00	0.18	391.36
17T1-2I	2.00	ELU5	1432.85	137.64	-0.06	0.00	0.24	272.17
17T1-2I	2.00	ELU5	1432.85	137.85	-0.06	0.00	0.24	272.17
17T1-2I	2.13	ELU5	1432.82	140.65	-0.06	0.00	0.25	254.76
17T1-2I	0.00	ELS3	927.73	63.51	1.06	-0.02	1.32	340.96
17T1-2I	1.06	ELS3	927.52	81.06	1.06	-0.02	0.19	264.15
17T1-2I	2.00	ELS3	927.34	96.51	1.06	-0.02	-0.80	180.91
17T1-2I	2.00	ELS3	927.34	96.71	1.06	-0.02	-0.80	180.91
17T1-2I	2.13	ELS3	927.31	98.77	1.06	-0.02	-0.93	168.69
17T2-3D	0.00	ELU5	1183.50	178.01	1.91	-0.04	2.30	521.28
17T2-3D	1.06	ELU5	1183.15	208.21	1.91	-0.04	0.27	317.25
17T2-3D	2.00	ELU5	1182.81	237.06	1.91	-0.04	-1.52	108.53
17T2-3D	2.00	ELU5	1182.42	269.86	1.91	-0.04	-1.52	108.53
17T2-3D	2.13	ELU5	1182.39	272.83	1.91	-0.04	-1.76	74.59
17T2-3D	0.00	ELS3	612.86	125.65	0.46	-0.02	0.64	320.66
17T2-3D	1.06	ELS3	612.63	145.01	0.46	-0.02	0.15	177.21
17T2-3D	2.00	ELS3	612.42	162.73	0.46	-0.02	-0.29	32.95
17T2-3D	2.00	ELS3	612.42	162.73	0.46	-0.02	-0.29	32.95
17T2-3D	2.13	ELS3	612.40	164.21	0.46	-0.02	-0.34	12.50
17T2-3I	0.00	ELU5	1006.05	164.45	-2.44	0.04	-2.90	463.55
17T2-3I	1.06	ELU5	1005.69	194.65	-2.44	0.04	-0.30	273.92
17T2-3I	2.00	ELU5	1005.35	223.50	-2.44	0.04	1.99	77.91
17T2-3I	2.00	ELU5	1005.35	223.50	-2.44	0.04	1.99	77.91
17T2-3I	2.13	ELU5	1005.32	226.47	-2.44	0.04	2.30	49.77
17T2-3I	0.00	ELS3	598.07	123.50	-0.59	0.02	-0.85	314.95
17T2-3I	1.06	ELS3	597.84	142.86	-0.59	0.02	-0.22	173.79
17T2-3I	2.00	ELS3	597.64	160.58	-0.59	0.02	0.33	31.54
17T2-3I	2.00	ELS3	597.64	160.58	-0.59	0.02	0.33	31.54
17T2-3I	2.13	ELS3	597.62	162.06	-0.59	0.02	0.40	11.36
17T3-4D	0.00	ELU5	318.50	313.74	5.43	-0.02	3.87	413.70
17T3-4D	0.81	ELU5	318.48	315.54	5.43	-0.02	-0.54	158.05
17T3-4D	1.38	ELU5	318.46	316.77	5.43	-0.02	-3.60	-19.78
17T3-4D	1.38	ELU5	317.28	417.06	5.43	-0.02	-3.60	-19.78
17T3-4D	1.63	ELU5	317.28	417.61	5.43	-0.02	-4.95	-124.13
17T3-4D	0.00	ELS3	-21.69	213.87	0.29	0.01	0.07	235.36
17T3-4D	0.81	ELS3	-21.71	215.67	0.29	0.01	-0.16	60.85



17T3-4D	1.38	ELS3	-21.73	216.90	0.29	0.01	-0.32	-60.81
17T3-4D	1.38	ELS3	-22.91	317.20	0.29	0.01	-0.32	-60.81
17T3-4D	1.63	ELS3	-22.92	317.74	0.29	0.01	-0.40	-140.19
17T3-4I	0.00	ELU5	213.64	271.83	-6.80	0.03	-4.88	347.78
17T3-4I	0.81	ELU5	213.62	273.63	-6.80	0.03	0.65	126.18
17T3-4I	1.38	ELU5	213.61	274.86	-6.80	0.03	4.48	-28.08
17T3-4I	1.38	ELU5	212.43	375.16	-6.80	0.03	4.48	-28.08
17T3-4I	1.63	ELU5	212.42	375.70	-6.80	0.03	6.18	-121.95
17T3-4I	0.00	ELS3	-28.78	211.55	-0.32	-0.01	-0.04	232.06
17T3-4I	0.81	ELS3	-28.80	213.34	-0.32	-0.01	0.22	59.44
17T3-4I	1.38	ELS3	-28.81	214.57	-0.32	-0.01	0.40	-60.91
17T3-4I	1.38	ELS3	-29.99	314.87	-0.32	-0.01	0.40	-60.91
17T3-4I	1.63	ELS3	-30.00	315.42	-0.32	-0.01	0.48	-139.71
18J5-6D	0.00	ELU5	-387.52	45.89	7.95	-0.08	5.74	0.67
18J5-6D	0.81	ELU5	-388.27	55.05	7.95	-0.08	-0.71	-40.28
18J5-6D	1.62	ELU5	-389.05	64.46	7.95	-0.08	-7.17	-88.76
18J5-6D	0.00	ELS3	-371.58	50.09	4.33	-0.03	2.99	-2.58
18J5-6D	0.81	ELS3	-372.34	59.25	4.33	-0.03	-0.52	-46.94
18J5-6D	1.62	ELS3	-373.11	68.66	4.33	-0.03	-4.04	-98.83
18J5-6I	0.00	ELU5	-371.15	47.29	-9.16	0.10	-6.79	1.26
18J5-6I	0.81	ELU5	-371.91	56.45	-9.16	0.10	0.65	-40.83
18J5-6I	1.62	ELU5	-372.68	65.86	-9.16	0.10	8.08	-90.44
18J5-6I	0.00	ELS3	-372.56	50.07	-4.61	0.03	-3.28	-2.48
18J5-6I	0.81	ELS3	-373.32	59.23	-4.61	0.03	0.46	-46.81
18J5-6I	1.62	ELS3	-374.09	68.64	-4.61	0.03	4.20	-98.69
18J6-7D	0.00	ELU5	-193.15	-31.67	1.12	-0.06	0.33	-39.40
18J6-7D	1.06	ELU5	-192.19	-20.06	1.12	-0.06	-0.85	-11.95
18J6-7D	2.13	ELU5	-191.27	-8.88	1.12	-0.06	-2.04	3.39
18J6-7D	0.00	ELS3	-175.95	-31.82	0.48	-0.03	-0.12	-39.66
18J6-7D	1.06	ELS3	-174.99	-20.21	0.48	-0.03	-0.63	-12.05
18J6-7D	2.13	ELS3	-174.07	-9.03	0.48	-0.03	-1.13	3.44
18J6-7I	0.00	ELU5	-168.89	-31.37	-1.38	0.07	-0.69	-38.13
18J6-7I	1.06	ELU5	-167.94	-19.75	-1.38	0.07	0.77	-11.01
18J6-7I	2.13	ELU5	-167.02	-8.57	-1.38	0.07	2.24	4.00
18J6-7I	0.00	ELS3	-173.94	-31.77	-0.46	0.03	0.07	-39.55
18J6-7I	1.06	ELS3	-172.98	-20.16	-0.46	0.03	0.56	-12.00
18J6-7I	2.13	ELS3	-172.06	-8.98	-0.46	0.03	1.05	3.45
18T0-1D	0.00	ELU5	1615.38	-40.44	-1.06	0.02	-1.16	436.59

18T0-1D	1.06	ELU5	1615.09	-16.50	-1.06	0.02	-0.04	466.83
18T0-1D	2.13	ELU5	1614.59	26.60	-1.06	0.02	1.08	463.26
18T0-1D	0.00	ELS3	1052.48	-17.17	-0.66	0.01	-0.69	310.44
18T0-1D	1.06	ELS3	1052.19	7.37	-0.66	0.01	0.02	315.63
18T0-1D	2.13	ELS3	1051.90	31.87	-0.66	0.01	0.72	294.78
18T0-1I	0.00	ELU5	1547.69	10.54	0.22	-0.01	0.38	472.34
18T0-1I	1.06	ELU5	1547.41	34.48	0.22	-0.01	0.14	448.41
18T0-1I	2.13	ELU5	1547.12	58.38	0.22	-0.01	-0.10	399.07
18T0-1I	0.00	ELS3	1036.70	-2.20	0.61	-0.01	0.82	318.07
18T0-1I	1.06	ELS3	1036.49	15.44	0.61	-0.01	0.17	311.03
18T0-1I	2.13	ELS3	1036.28	33.03	0.61	-0.01	-0.49	285.28
18T1-2D	0.00	ELU5	1559.18	37.33	1.33	-0.02	1.49	491.22
18T1-2D	1.06	ELU5	1558.63	84.50	1.33	-0.02	0.08	426.50
18T1-2D	2.00	ELU5	1558.14	126.07	1.33	-0.02	-1.17	327.79
18T1-2D	2.00	ELU5	1558.13	126.28	1.33	-0.02	-1.17	327.79
18T1-2D	2.13	ELU5	1558.07	131.82	1.33	-0.02	-1.34	311.66
18T1-2D	0.00	ELS3	959.07	47.33	1.11	-0.02	1.18	334.61
18T1-2D	1.06	ELS3	958.79	70.57	1.11	-0.02	0.00	271.44
18T1-2D	2.00	ELS3	958.61	86.02	1.11	-0.02	-1.03	198.04
18T1-2D	2.00	ELS3	958.61	86.22	1.11	-0.02	-1.03	198.04
18T1-2D	2.13	ELS3	958.58	88.28	1.11	-0.02	-1.17	187.13
18T1-2I	0.00	ELU5	1393.06	74.69	-2.44	0.04	-2.74	472.76
18T1-2I	1.06	ELU5	1392.78	98.55	-2.44	0.04	-0.15	380.72
18T1-2I	2.00	ELU5	1392.54	119.56	-2.44	0.04	2.14	278.48
18T1-2I	2.00	ELU5	1392.53	119.77	-2.44	0.04	2.14	278.48
18T1-2I	2.13	ELU5	1392.50	122.57	-2.44	0.04	2.44	263.33
18T1-2I	0.00	ELS3	936.70	50.99	-1.20	0.02	-1.44	329.01
18T1-2I	1.06	ELS3	936.49	68.54	-1.20	0.02	-0.17	265.51
18T1-2I	2.00	ELS3	936.31	83.98	-1.20	0.02	0.96	194.01
18T1-2I	2.00	ELS3	936.31	84.19	-1.20	0.02	0.96	194.01
18T1-2I	2.13	ELS3	936.28	86.25	-1.20	0.02	1.11	183.36
18T2-3D	0.00	ELU5	1092.12	139.63	0.30	0.00	0.04	445.31
18T2-3D	1.06	ELU5	1091.77	169.83	0.30	0.00	-0.27	282.06
18T2-3D	2.00	ELU5	1091.43	198.68	0.30	0.00	-0.55	109.32
18T2-3D	2.00	ELU5	1091.04	231.48	0.30	0.00	-0.55	109.32
18T2-3D	2.13	ELU5	1091.00	234.45	0.30	0.00	-0.59	80.17
18T2-3D	0.00	ELS3	588.74	102.44	-0.08	0.01	-0.28	279.56
18T2-3D	1.06	ELS3	588.51	121.81	-0.08	0.01	-0.20	160.76





18T2-3D	2.00	ELS3	588.30	139.52	-0.08	0.01	-0.13	38.26
18T2-3D	2.00	ELS3	588.30	139.52	-0.08	0.01	-0.13	38.26
18T2-3D	2.13	ELS3	588.28	141.01	-0.08	0.01	-0.12	20.71
18T2-3I	0.00	ELU5	916.32	133.11	-1.14	0.01	-0.89	396.90
18T2-3I	1.06	ELU5	915.96	163.31	-1.14	0.01	0.32	240.58
18T2-3I	2.00	ELU5	915.62	192.16	-1.14	0.01	1.39	73.95
18T2-3I	2.00	ELU5	915.62	192.16	-1.14	0.01	1.39	73.95
18T2-3I	2.13	ELU5	915.59	195.13	-1.14	0.01	1.54	49.72
18T2-3I	0.00	ELS3	571.15	100.71	0.12	-0.01	0.44	274.34
18T2-3I	1.06	ELS3	570.92	120.08	0.12	-0.01	0.31	157.38
18T2-3I	2.00	ELS3	570.71	137.79	0.12	-0.01	0.20	36.50
18T2-3I	2.00	ELS3	570.71	137.79	0.12	-0.01	0.20	36.50
18T2-3I	2.13	ELS3	570.70	139.28	0.12	-0.01	0.19	19.16
18T3-4D	0.00	ELU5	360.96	252.79	5.33	-0.07	4.45	316.37
18T3-4D	0.81	ELU5	360.94	254.58	5.33	-0.07	0.12	110.24
18T3-4D	1.38	ELU5	360.93	255.81	5.33	-0.07	-2.87	-33.30
18T3-4D	1.38	ELU5	359.75	356.11	5.33	-0.07	-2.87	-33.30
18T3-4D	1.63	ELU5	359.74	356.65	5.33	-0.07	-4.21	-122.41
18T3-4D	0.00	ELS3	68.80	169.47	2.03	-0.04	1.85	176.12
18T3-4D	0.81	ELS3	68.78	171.27	2.03	-0.04	0.20	37.69
18T3-4D	1.38	ELS3	68.76	172.50	2.03	-0.04	-0.94	-58.99
18T3-4D	1.38	ELS3	67.58	272.80	2.03	-0.04	-0.94	-58.99
18T3-4D	1.63	ELS3	67.58	273.34	2.03	-0.04	-1.45	-127.27
18T3-4I	0.00	ELU5	254.94	220.18	-7.13	0.08	-5.82	263.41
18T3-4I	0.81	ELU5	254.92	221.98	-7.13	0.08	-0.03	83.78
18T3-4I	1.38	ELU5	254.91	223.21	-7.13	0.08	3.98	-41.43
18T3-4I	1.38	ELU5	253.73	323.51	-7.13	0.08	3.98	-41.43
18T3-4I	1.63	ELU5	253.72	324.05	-7.13	0.08	5.77	-122.39
18T3-4I	0.00	ELS3	60.59	167.53	-2.36	0.04	-2.18	172.85
18T3-4I	0.81	ELS3	60.57	169.33	-2.36	0.04	-0.27	36.00
18T3-4I	1.38	ELS3	60.56	170.56	-2.36	0.04	1.06	-59.59
18T3-4I	1.38	ELS3	59.38	270.86	-2.36	0.04	1.06	-59.59
18T3-4I	1.63	ELS3	59.37	271.40	-2.36	0.04	1.65	-127.39
19J5-6D	0.00	ELU5	-314.49	53.26	6.39	-0.11	5.22	-8.84
19J5-6D	0.81	ELU5	-315.25	62.42	6.39	-0.11	0.03	-55.77
19J5-6D	1.62	ELU5	-316.02	71.83	6.39	-0.11	-5.15	-110.24
19J5-6D	0.00	ELS3	-313.88	55.64	3.90	-0.07	3.26	-9.54
19J5-6D	0.81	ELS3	-314.63	64.80	3.90	-0.07	0.10	-58.40

19J5-6D	1.62	ELS3	-315.41	74.21	3.90	-0.07	-3.07	-114.80
19J5-6I	0.00	ELU5	-304.06	54.20	-7.90	0.14	-6.28	-7.81
19J5-6I	0.81	ELU5	-304.82	63.36	-7.90	0.14	0.13	-55.51
19J5-6I	1.62	ELU5	-305.59	72.77	-7.90	0.14	6.54	-110.73
19J5-6I	0.00	ELS3	-313.11	55.64	-4.01	0.07	-3.23	-9.56
19J5-6I	0.81	ELS3	-313.86	64.80	-4.01	0.07	0.03	-58.42
19J5-6I	1.62	ELS3	-314.64	74.21	-4.01	0.07	3.29	-114.82
19J6-7D	0.00	ELU5	-115.45	-25.40	0.23	-0.02	0.53	-25.28
19J6-7D	1.06	ELU5	-114.50	-13.79	0.23	-0.02	0.28	-4.49
19J6-7D	2.13	ELU5	-113.58	-2.61	0.23	-0.02	0.04	4.18
19J6-7D	0.00	ELS3	-112.83	-26.80	-0.10	0.00	0.20	-28.34
19J6-7D	1.06	ELS3	-111.87	-15.19	-0.10	0.00	0.30	-6.08
19J6-7D	2.13	ELS3	-110.95	-4.00	-0.10	0.00	0.41	4.08
19J6-7I	0.00	ELU5	-103.35	-25.83	-0.75	0.04	-0.86	-25.70
19J6-7I	1.06	ELU5	-102.39	-14.22	-0.75	0.04	-0.06	-4.46
19J6-7I	2.13	ELU5	-101.47	-3.03	-0.75	0.04	0.73	4.66
19J6-7I	0.00	ELS3	-115.64	-26.87	-0.03	0.00	-0.19	-28.53
19J6-7I	1.06	ELS3	-114.68	-15.25	-0.03	0.00	-0.15	-6.19
19J6-7I	2.13	ELS3	-113.76	-4.07	-0.03	0.00	-0.11	4.04
19T0-1D	0.00	ELU5	1513.19	-38.02	0.58	-0.01	0.59	417.10
19T0-1D	1.06	ELU5	1512.91	-14.08	0.58	-0.01	-0.02	444.77
19T0-1D	2.13	ELU5	1512.40	29.02	0.58	-0.01	-0.63	438.63
19T0-1D	0.00	ELS3	999.85	-15.56	0.88	-0.01	0.84	300.75
19T0-1D	1.06	ELS3	999.56	8.98	0.88	-0.01	-0.09	304.24
19T0-1D	2.13	ELS3	999.27	33.48	0.88	-0.01	-1.03	281.68
19T0-1I	0.00	ELU5	1442.04	12.02	-1.86	0.03	-2.10	449.85
19T0-1I	1.06	ELU5	1441.76	35.96	-1.86	0.03	-0.13	424.36
19T0-1I	2.13	ELU5	1441.48	59.86	-1.86	0.03	1.84	373.44
19T0-1I	0.00	ELS3	985.10	-0.29	-0.92	0.01	-1.17	307.73
19T0-1I	1.06	ELS3	984.89	17.35	-0.92	0.01	-0.19	298.67
19T0-1I	2.13	ELS3	984.68	34.94	-0.92	0.01	0.79	270.89
19T1-2D	0.00	ELU5	1420.16	30.36	0.04	0.00	-0.04	451.10
19T1-2D	1.06	ELU5	1419.61	77.53	0.04	0.00	-0.08	393.78
19T1-2D	2.00	ELU5	1419.12	119.10	0.04	0.00	-0.12	301.61
19T1-2D	2.00	ELU5	1419.12	119.31	0.04	0.00	-0.12	301.61
19T1-2D	2.13	ELU5	1419.05	124.85	0.04	0.00	-0.12	286.35
19T1-2D	0.00	ELS3	882.31	43.22	0.11	0.00	0.13	310.41
19T1-2D	1.06	ELS3	882.04	66.45	0.11	0.00	0.02	251.61





19T1-2D	2.00	ELS3	881.86	81.90	0.11	0.00	-0.08	182.07
19T1-2D	2.00	ELS3	881.85	82.11	0.11	0.00	-0.08	182.07
19T1-2D	2.13	ELS3	881.83	84.16	0.11	0.00	-0.10	171.68
19T1-2I	0.00	ELU5	1253.11	68.48	-0.99	0.01	-0.83	433.48
19T1-2I	1.06	ELU5	1252.83	92.34	-0.99	0.01	0.22	348.04
19T1-2I	2.00	ELU5	1252.58	113.35	-0.99	0.01	1.15	251.62
19T1-2I	2.00	ELU5	1252.58	113.56	-0.99	0.01	1.15	251.62
19T1-2I	2.13	ELU5	1252.54	116.36	-0.99	0.01	1.27	237.25
19T1-2I	0.00	ELS3	855.55	47.25	-0.12	0.00	0.10	305.45
19T1-2I	1.06	ELS3	855.35	64.80	-0.12	0.00	0.23	245.92
19T1-2I	2.00	ELS3	855.17	80.25	-0.12	0.00	0.34	177.93
19T1-2I	2.00	ELS3	855.16	80.45	-0.12	0.00	0.34	177.93
19T1-2I	2.13	ELS3	855.14	82.51	-0.12	0.00	0.35	167.74
19T2-3D	0.00	ELU5	1055.19	127.61	2.70	-0.04	2.95	427.31
19T2-3D	1.06	ELU5	1054.84	157.81	2.70	-0.04	0.08	276.83
19T2-3D	2.00	ELU5	1054.50	186.66	2.70	-0.04	-2.45	115.36
19T2-3D	2.00	ELU5	1054.11	219.46	2.70	-0.04	-2.45	115.36
19T2-3D	2.13	ELU5	1054.08	222.43	2.70	-0.04	-2.79	87.72
19T2-3D	0.00	ELS3	602.69	96.02	2.01	-0.03	2.14	278.03
19T2-3D	1.06	ELS3	602.46	115.39	2.01	-0.03	0.01	166.05
19T2-3D	2.00	ELS3	602.25	133.10	2.01	-0.03	-1.88	49.57
19T2-3D	2.00	ELS3	602.25	133.10	2.01	-0.03	-1.88	49.57
19T2-3D	2.13	ELS3	602.23	134.59	2.01	-0.03	-2.13	32.82
19T2-3I	0.00	ELU5	890.67	123.76	-3.63	0.05	-4.06	383.81
19T2-3I	1.06	ELU5	890.31	153.96	-3.63	0.05	-0.20	237.42
19T2-3I	2.00	ELU5	889.97	182.80	-3.63	0.05	3.21	79.56
19T2-3I	2.00	ELU5	889.97	182.80	-3.63	0.05	3.21	79.56
19T2-3I	2.13	ELU5	889.94	185.77	-3.63	0.05	3.66	56.50
19T2-3I	0.00	ELS3	586.71	94.59	-2.21	0.03	-2.54	273.07
19T2-3I	1.06	ELS3	586.48	113.96	-2.21	0.03	-0.19	162.61
19T2-3I	2.00	ELS3	586.27	131.68	-2.21	0.03	1.88	47.47
19T2-3I	2.00	ELS3	586.27	131.68	-2.21	0.03	1.88	47.47
19T2-3I	2.13	ELS3	586.26	133.16	-2.21	0.03	2.15	30.89
19T3-4D	0.00	ELU5	360.93	238.06	1.01	0.01	0.49	281.69
19T3-4D	0.81	ELU5	360.91	239.86	1.01	0.01	-0.33	87.53
19T3-4D	1.38	ELU5	360.89	241.09	1.01	0.01	-0.90	-47.73
19T3-4D	1.38	ELU5	359.71	341.38	1.01	0.01	-0.90	-47.73
19T3-4D	1.63	ELU5	359.71	341.93	1.01	0.01	-1.15	-133.16

19T3-4D	0.00	ELS3	112.88	159.91	0.06	0.01	-0.12	160.02
19T3-4D	0.81	ELS3	112.86	161.71	0.06	0.01	-0.17	29.36
19T3-4D	1.38	ELS3	112.84	162.94	0.06	0.01	-0.20	-61.95
19T3-4D	1.38	ELS3	111.66	263.24	0.06	0.01	-0.20	-61.95
19T3-4D	1.63	ELS3	111.65	263.78	0.06	0.01	-0.21	-127.83
19T3-4I	0.00	ELU5	255.57	208.99	-3.78	0.01	-2.51	234.05
19T3-4I	0.81	ELU5	255.55	210.79	-3.78	0.01	0.56	63.51
19T3-4I	1.38	ELU5	255.54	212.02	-3.78	0.01	2.69	-55.40
19T3-4I	1.38	ELU5	254.36	312.31	-3.78	0.01	2.69	-55.40
19T3-4I	1.63	ELU5	254.35	312.86	-3.78	0.01	3.63	-133.56
19T3-4I	0.00	ELS3	101.82	158.25	-0.06	-0.01	0.26	157.34
19T3-4I	0.81	ELS3	101.80	160.04	-0.06	-0.01	0.30	28.03
19T3-4I	1.38	ELS3	101.79	161.27	-0.06	-0.01	0.34	-62.34
19T3-4I	1.38	ELS3	100.61	261.57	-0.06	-0.01	0.34	-62.34
19T3-4I	1.63	ELS3	100.60	262.12	-0.06	-0.01	0.35	-127.81
20J5-6D	0.00	ELU5	-290.74	56.40	-5.12	0.04	-4.30	-4.83
20J5-6D	0.81	ELU5	-291.49	65.56	-5.12	0.04	-0.14	-54.31
20J5-6D	1.62	ELU5	-292.27	74.97	-5.12	0.04	4.01	-111.33
20J5-6D	0.00	ELS3	-292.83	58.84	-5.09	0.04	-4.28	-5.51
20J5-6D	0.81	ELS3	-293.58	68.00	-5.09	0.04	-0.14	-56.97
20J5-6D	1.62	ELS3	-294.36	77.41	-5.09	0.04	3.99	-115.96
20J5-6I	0.00	ELU5	-284.83	57.01	1.76	0.01	1.44	-3.66
20J5-6I	0.81	ELU5	-285.59	66.17	1.76	0.01	0.00	-53.64
20J5-6I	1.62	ELU5	-286.36	75.58	1.76	0.01	-1.43	-111.15
20J5-6I	0.00	ELS3	-296.50	58.37	4.35	-0.03	3.46	-5.32
20J5-6I	0.81	ELS3	-297.26	67.53	4.35	-0.03	-0.07	-56.39
20J5-6I	1.62	ELS3	-298.03	76.94	4.35	-0.03	-3.60	-115.00
20J6-7D	0.00	ELU5	-208.87	-32.84	1.89	-0.07	1.58	-42.27
20J6-7D	1.06	ELU5	-207.91	-21.23	1.89	-0.07	-0.42	-13.58
20J6-7D	2.13	ELU5	-206.99	-10.04	1.89	-0.07	-2.42	2.99
20J6-7D	0.00	ELS3	-188.98	-32.68	1.38	-0.05	1.09	-41.76
20J6-7D	1.06	ELS3	-188.03	-21.07	1.38	-0.05	-0.38	-13.24
20J6-7D	2.13	ELS3	-187.11	-9.89	1.38	-0.05	-1.84	3.17
20J6-7I	0.00	ELU5	-179.44	-32.53	-2.17	0.09	-2.09	-40.97
20J6-7I	1.06	ELU5	-178.48	-20.92	-2.17	0.09	0.21	-12.61
20J6-7I	2.13	ELU5	-177.56	-9.74	-2.17	0.09	2.51	3.64
20J6-7I	0.00	ELS3	-183.09	-32.65	-1.31	0.05	-1.29	-41.70
20J6-7I	1.06	ELS3	-182.14	-21.04	-1.31	0.05	0.11	-13.21



20J6-7I	2.13	ELS3	-181.22	-9.85	-1.31	0.05	1.50	3.16
20T0-1D	0.00	ELU5	1533.58	-31.10	-1.25	0.02	-1.25	413.04
20T0-1D	1.06	ELU5	1533.30	-7.16	-1.25	0.02	0.08	433.37
20T0-1D	2.13	ELU5	1532.80	35.94	-1.25	0.02	1.40	419.88
20T0-1D	0.00	ELS3	1047.69	-10.58	-0.55	0.01	-0.39	303.05
20T0-1D	1.06	ELS3	1047.40	13.96	-0.55	0.01	0.19	301.25
20T0-1D	2.13	ELS3	1047.11	38.46	-0.55	0.01	0.78	273.40
20T0-1I	0.00	ELU5	1464.97	17.26	-0.12	-0.01	0.03	445.54
20T0-1I	1.06	ELU5	1464.69	41.20	-0.12	-0.01	0.16	414.47
20T0-1I	2.13	ELU5	1464.41	65.10	-0.12	-0.01	0.29	358.00
20T0-1I	0.00	ELS3	1030.42	5.22	0.55	-0.01	0.81	311.93
20T0-1I	1.06	ELS3	1030.22	22.86	0.55	-0.01	0.23	297.01
20T0-1I	2.13	ELS3	1030.01	40.45	0.55	-0.01	-0.36	263.37
20T1-2D	0.00	ELU5	1435.41	39.25	0.29	0.00	0.47	454.84
20T1-2D	1.06	ELU5	1434.86	86.41	0.29	0.00	0.15	388.08
20T1-2D	2.00	ELU5	1434.37	127.99	0.29	0.00	-0.12	287.58
20T1-2D	2.00	ELU5	1434.37	128.19	0.29	0.00	-0.12	287.58
20T1-2D	2.13	ELU5	1434.30	133.74	0.29	0.00	-0.16	271.21
20T1-2D	0.00	ELS3	924.49	50.81	0.57	0.00	0.62	320.65
20T1-2D	1.06	ELS3	924.21	74.04	0.57	0.00	0.01	253.79
20T1-2D	2.00	ELS3	924.03	89.49	0.57	0.00	-0.53	177.13
20T1-2D	2.00	ELS3	924.03	89.70	0.57	0.00	-0.53	177.13
20T1-2D	2.13	ELS3	924.00	91.76	0.57	0.00	-0.60	165.79
20T1-2I	0.00	ELU5	1273.19	76.49	-1.80	0.02	-2.27	436.41
20T1-2I	1.06	ELU5	1272.91	100.35	-1.80	0.02	-0.36	342.45
20T1-2I	2.00	ELU5	1272.66	121.36	-1.80	0.02	1.33	238.52
20T1-2I	2.00	ELU5	1272.66	121.57	-1.80	0.02	1.33	238.52
20T1-2I	2.13	ELU5	1272.63	124.37	-1.80	0.02	1.56	223.15
20T1-2I	0.00	ELS3	899.71	55.31	-0.64	0.00	-1.08	315.47
20T1-2I	1.06	ELS3	899.51	72.86	-0.64	0.00	-0.39	247.37
20T1-2I	2.00	ELS3	899.32	88.31	-0.64	0.00	0.21	171.82
20T1-2I	2.00	ELS3	899.32	88.52	-0.64	0.00	0.21	171.82
20T1-2I	2.13	ELS3	899.30	90.57	-0.64	0.00	0.29	160.63
20T2-3D	0.00	ELU5	933.82	135.99	-0.79	0.02	-0.78	404.30
20T2-3D	1.06	ELU5	933.46	166.19	-0.79	0.02	0.06	244.92
20T2-3D	2.00	ELU5	933.12	195.04	-0.79	0.02	0.80	75.59
20T2-3D	2.00	ELU5	932.74	227.84	-0.79	0.02	0.80	75.59
20T2-3D	2.13	ELU5	932.70	230.81	-0.79	0.02	0.90	46.90

20T2-3D	0.00	ELS3	534.40	103.86	-0.48	0.02	-0.36	266.26
20T2-3D	1.06	ELS3	534.17	123.23	-0.48	0.02	0.15	145.96
20T2-3D	2.00	ELS3	533.96	140.94	-0.48	0.02	0.60	22.13
20T2-3D	2.00	ELS3	533.96	140.94	-0.48	0.02	0.60	22.13
20T2-3D	2.13	ELS3	533.95	142.42	-0.48	0.02	0.66	4.40
20T2-3I	0.00	ELU5	769.87	131.75	-0.47	0.00	-0.38	361.21
20T2-3I	1.06	ELU5	769.52	161.95	-0.47	0.00	0.12	206.33
20T2-3I	2.00	ELU5	769.18	190.80	-0.47	0.00	0.56	40.97
20T2-3I	2.00	ELU5	769.18	190.80	-0.47	0.00	0.56	40.97
20T2-3I	2.13	ELU5	769.14	193.77	-0.47	0.00	0.62	16.92
20T2-3I	0.00	ELS3	509.28	103.01	0.60	-0.02	0.78	261.63
20T2-3I	1.06	ELS3	509.05	122.38	0.60	-0.02	0.14	142.22
20T2-3I	2.00	ELS3	508.84	140.09	0.60	-0.02	-0.42	19.19
20T2-3I	2.00	ELS3	508.84	140.09	0.60	-0.02	-0.42	19.19
20T2-3I	2.13	ELS3	508.83	141.58	0.60	-0.02	-0.50	1.56
20T3-4D	0.00	ELU5	279.75	244.11	11.99	-0.06	9.18	286.52
20T3-4D	0.81	ELU5	279.72	245.91	11.99	-0.06	-0.56	87.45
20T3-4D	1.38	ELU5	279.71	247.14	11.99	-0.06	-7.31	-51.22
20T3-4D	1.38	ELU5	278.53	347.44	11.99	-0.06	-7.31	-51.22
20T3-4D	1.63	ELU5	278.52	347.98	11.99	-0.06	-10.31	-138.16
20T3-4D	0.00	ELS3	77.56	165.62	9.11	-0.04	6.92	172.21
20T3-4D	0.81	ELS3	77.54	167.42	9.11	-0.04	-0.49	36.91
20T3-4D	1.38	ELS3	77.52	168.65	9.11	-0.04	-5.61	-57.61
20T3-4D	1.38	ELS3	76.34	268.95	9.11	-0.04	-5.61	-57.61
20T3-4D	1.63	ELS3	76.34	269.49	9.11	-0.04	-7.89	-124.93
20T3-4I	0.00	ELU5	185.57	214.80	-14.66	0.07	-11.35	238.84
20T3-4I	0.81	ELU5	185.55	216.60	-14.66	0.07	0.57	63.58
20T3-4I	1.38	ELU5	185.53	217.83	-14.66	0.07	8.82	-58.60
20T3-4I	1.38	ELU5	184.35	318.13	-14.66	0.07	8.82	-58.60
20T3-4I	1.63	ELU5	184.35	318.67	-14.66	0.07	12.49	-138.22
20T3-4I	0.00	ELS3	64.17	164.35	-9.72	0.04	-7.61	168.60
20T3-4I	0.81	ELS3	64.15	166.15	-9.72	0.04	0.29	34.33
20T3-4I	1.38	ELS3	64.14	167.38	-9.72	0.04	5.76	-59.47
20T3-4I	1.38	ELS3	62.96	267.68	-9.72	0.04	5.76	-59.47
20T3-4I	1.63	ELS3	62.95	268.22	-9.72	0.04	8.19	-126.47
21J5-6D	0.00	ELU5	-413.41	52.13	2.62	-0.13	3.32	-1.72
21J5-6D	0.81	ELU5	-414.17	61.29	2.62	-0.13	1.20	-47.73
21J5-6D	1.62	ELU5	-414.94	70.70	2.62	-0.13	-0.93	-101.29



21J5-6D	0.00	ELS3	-389.58	54.89	1.12	-0.09	2.03	-2.66
21J5-6D	0.81	ELS3	-390.33	64.05	1.12	-0.09	1.11	-50.91
21J5-6D	1.62	ELS3	-391.11	73.46	1.12	-0.09	0.20	-106.70
21J5-6I	0.00	ELU5	-384.30	53.28	-4.82	0.16	-4.52	-1.19
21J5-6I	0.81	ELU5	-385.05	62.44	-4.82	0.16	-0.61	-48.13
21J5-6I	1.62	ELU5	-385.83	71.85	-4.82	0.16	3.30	-102.61
21J5-6I	0.00	ELS3	-383.75	54.53	-1.37	0.09	-1.75	-3.00
21J5-6I	0.81	ELS3	-384.50	63.69	-1.37	0.09	-0.64	-50.97
21J5-6I	1.62	ELS3	-385.27	73.10	-1.37	0.09	0.47	-106.47
21J6-7D	0.00	ELU5	-42.15	-22.43	-3.00	0.11	-2.00	-17.45
21J6-7D	1.06	ELU5	-41.19	-10.82	-3.00	0.11	1.18	0.17
21J6-7D	2.13	ELU5	-40.27	0.36	-3.00	0.11	4.36	5.69
21J6-7D	0.00	ELS3	-51.58	-24.33	-2.67	0.09	-1.70	-21.83
21J6-7D	1.06	ELS3	-50.62	-12.72	-2.67	0.09	1.14	-2.19
21J6-7D	2.13	ELS3	-49.70	-1.54	-2.67	0.09	3.98	5.35
21J6-7I	0.00	ELU5	-38.10	-22.99	1.91	-0.07	1.56	-18.23
21J6-7I	1.06	ELU5	-37.14	-11.37	1.91	-0.07	-0.47	-0.01
21J6-7I	2.13	ELU5	-36.22	-0.19	1.91	-0.07	-2.50	6.09
21J6-7I	0.00	ELS3	-59.01	-24.27	2.30	-0.09	1.90	-21.77
21J6-7I	1.06	ELS3	-58.06	-12.66	2.30	-0.09	-0.55	-2.19
21J6-7I	2.13	ELS3	-57.14	-1.47	2.30	-0.09	-3.00	5.28
21T0-1D	0.00	ELU5	1528.82	-22.43	0.41	-0.02	0.67	381.72
21T0-1D	1.06	ELU5	1528.54	1.51	0.41	-0.02	0.23	392.83
21T0-1D	2.13	ELU5	1528.03	44.61	0.41	-0.02	-0.20	370.12
21T0-1D	0.00	ELS3	1076.07	-3.82	1.04	-0.02	1.11	284.64
21T0-1D	1.06	ELS3	1075.78	20.73	1.04	-0.02	0.01	275.65
21T0-1D	2.13	ELS3	1075.49	45.22	1.04	-0.02	-1.10	240.61
21T0-1I	0.00	ELU5	1462.07	25.41	-2.23	0.04	-2.89	413.96
21T0-1I	1.06	ELU5	1461.79	49.35	-2.23	0.04	-0.53	374.24
21T0-1I	2.13	ELU5	1461.50	73.26	-2.23	0.04	1.83	309.10
21T0-1I	0.00	ELS3	1059.56	12.65	-0.97	0.02	-1.65	292.65
21T0-1I	1.06	ELS3	1059.36	30.29	-0.97	0.02	-0.62	269.84
21T0-1I	2.13	ELS3	1059.15	47.88	-0.97	0.02	0.42	228.30
21T1-2D	0.00	ELU5	1393.08	44.08	1.45	-0.02	1.27	435.86
21T1-2D	1.06	ELU5	1392.53	91.24	1.45	-0.02	-0.26	363.97
21T1-2D	2.00	ELU5	1392.04	132.82	1.45	-0.02	-1.62	258.94
21T1-2D	2.00	ELU5	1392.03	133.03	1.45	-0.02	-1.62	258.94
21T1-2D	2.13	ELU5	1391.97	138.57	1.45	-0.02	-1.80	241.96

21T1-2D	0.00	ELS3	927.49	54.45	1.56	-0.02	1.64	311.31
21T1-2D	1.06	ELS3	927.22	77.69	1.56	-0.02	-0.02	240.58
21T1-2D	2.00	ELS3	927.04	93.13	1.56	-0.02	-1.48	160.50
21T1-2D	2.00	ELS3	927.03	93.34	1.56	-0.02	-1.48	160.50
21T1-2D	2.13	ELS3	927.01	95.40	1.56	-0.02	-1.67	148.71
21T1-2I	0.00	ELU5	1236.93	81.01	-2.99	0.04	-2.57	419.70
21T1-2I	1.06	ELU5	1236.65	104.87	-2.99	0.04	0.60	320.94
21T1-2I	2.00	ELU5	1236.40	125.88	-2.99	0.04	3.40	212.78
21T1-2I	2.00	ELU5	1236.40	126.09	-2.99	0.04	3.40	212.78
21T1-2I	2.13	ELU5	1236.37	128.89	-2.99	0.04	3.77	196.84
21T1-2I	0.00	ELS3	893.94	59.74	-1.52	0.02	-1.03	307.72
21T1-2I	1.06	ELS3	893.74	77.29	-1.52	0.02	0.59	234.92
21T1-2I	2.00	ELS3	893.56	92.74	-1.52	0.02	2.02	155.21
21T1-2I	2.00	ELS3	893.55	92.94	-1.52	0.02	2.02	155.21
21T1-2I	2.13	ELS3	893.53	95.00	-1.52	0.02	2.21	143.47
21T2-3D	0.00	ELU5	1011.64	140.06	3.64	-0.05	4.37	424.25
21T2-3D	1.06	ELU5	1011.28	170.27	3.64	-0.05	0.50	260.54
21T2-3D	2.00	ELU5	1010.94	199.11	3.64	-0.05	-2.91	87.39
21T2-3D	2.00	ELU5	1010.56	231.91	3.64	-0.05	-2.91	87.39
21T2-3D	2.13	ELU5	1010.52	234.89	3.64	-0.05	-3.37	58.20
21T2-3D	0.00	ELS3	634.09	107.02	3.01	-0.04	3.45	289.95
21T2-3D	1.06	ELS3	633.86	126.39	3.01	-0.04	0.25	166.29
21T2-3D	2.00	ELS3	633.65	144.10	3.01	-0.04	-2.57	39.49
21T2-3D	2.00	ELS3	633.65	144.10	3.01	-0.04	-2.57	39.49
21T2-3D	2.13	ELS3	633.64	145.59	3.01	-0.04	-2.95	21.37
21T2-3I	0.00	ELU5	863.38	135.70	-5.01	0.07	-6.13	381.81
21T2-3I	1.06	ELU5	863.03	165.90	-5.01	0.07	-0.81	222.73
21T2-3I	2.00	ELU5	862.69	194.74	-5.01	0.07	3.90	53.68
21T2-3I	2.00	ELU5	862.69	194.74	-5.01	0.07	3.90	53.68
21T2-3I	2.13	ELU5	862.66	197.71	-5.01	0.07	4.52	29.13
21T2-3I	0.00	ELS3	610.38	106.84	-3.27	0.04	-4.21	284.31
21T2-3I	1.06	ELS3	610.15	126.21	-3.27	0.04	-0.74	160.84
21T2-3I	2.00	ELS3	609.94	143.92	-3.27	0.04	2.32	34.21
21T2-3I	2.00	ELS3	609.94	143.92	-3.27	0.04	2.32	34.21
21T2-3I	2.13	ELS3	609.93	145.41	-3.27	0.04	2.73	16.11
21T3-4D	0.00	ELU5	120.52	252.90	4.35	0.02	2.81	270.63
21T3-4D	0.81	ELU5	120.50	254.70	4.35	0.02	-0.72	64.41
21T3-4D	1.38	ELU5	120.49	255.93	4.35	0.02	-3.17	-79.20



21T3-4D	1.38	ELU5	119.31	356.23	4.35	0.02	-3.17	-79.20
21T3-4D	1.63	ELU5	119.30	356.77	4.35	0.02	-4.25	-168.34
21T3-4D	0.00	ELS3	-8.23	172.22	3.32	0.02	2.27	165.69
21T3-4D	0.81	ELS3	-8.25	174.01	3.32	0.02	-0.43	25.03
21T3-4D	1.38	ELS3	-8.27	175.24	3.32	0.02	-2.30	-73.19
21T3-4D	1.38	ELS3	-9.45	275.54	3.32	0.02	-2.30	-73.19
21T3-4D	1.63	ELS3	-9.46	276.08	3.32	0.02	-3.13	-142.16
21T3-4I	0.00	ELU5	43.81	222.88	-7.54	0.00	-4.96	226.69
21T3-4I	0.81	ELU5	43.79	224.68	-7.54	0.00	1.17	44.87
21T3-4I	1.38	ELU5	43.78	225.91	-7.54	0.00	5.41	-81.86
21T3-4I	1.38	ELU5	42.60	326.21	-7.54	0.00	5.41	-81.86
21T3-4I	1.63	ELU5	42.59	326.75	-7.54	0.00	7.29	-163.49
21T3-4I	0.00	ELS3	-42.77	171.74	-3.29	-0.02	-1.84	161.59
21T3-4I	0.81	ELS3	-42.79	173.54	-3.29	-0.02	0.83	21.31
21T3-4I	1.38	ELS3	-42.80	174.77	-3.29	-0.02	2.68	-76.65
21T3-4I	1.38	ELS3	-43.98	275.07	-3.29	-0.02	2.68	-76.65
21T3-4I	1.63	ELS3	-43.99	275.61	-3.29	-0.02	3.50	-145.50
22J5-6D	0.00	ELU5	-338.80	3.67	-11.78	0.10	-10.75	27.18
22J5-6D	0.81	ELU5	-339.55	12.83	-11.78	0.10	-1.18	20.50
22J5-6D	1.62	ELU5	-340.33	22.24	-11.78	0.10	8.38	6.28
22J5-6D	0.00	ELS3	-305.63	15.90	-11.65	0.11	-10.60	21.30
22J5-6D	0.81	ELS3	-306.38	25.06	-11.65	0.11	-1.14	4.69
22J5-6D	1.62	ELS3	-307.16	34.47	-11.65	0.11	8.31	-19.45
22J5-6I	0.00	ELU5	-360.40	9.55	6.59	-0.03	5.68	25.05
22J5-6I	0.81	ELU5	-361.16	18.71	6.59	-0.03	0.33	13.60
22J5-6I	1.62	ELU5	-361.93	28.12	6.59	-0.03	-5.02	-5.39
22J5-6I	0.00	ELS3	-356.51	15.79	9.10	-0.08	7.65	20.00
22J5-6I	0.81	ELS3	-357.26	24.94	9.10	-0.08	0.27	3.49
22J5-6I	1.62	ELS3	-358.04	34.36	9.10	-0.08	-7.12	-20.56
22J6-7D	0.00	ELU5	-322.02	-29.35	4.92	-0.11	2.73	-32.76
22J6-7D	1.06	ELU5	-321.06	-17.74	4.92	-0.11	-2.50	-7.78
22J6-7D	2.13	ELU5	-320.14	-6.55	4.92	-0.11	-7.73	5.08
22J6-7D	0.00	ELS3	-274.87	-29.38	3.51	-0.07	1.47	-32.92
22J6-7D	1.06	ELS3	-273.91	-17.77	3.51	-0.07	-2.26	-7.91
22J6-7D	2.13	ELS3	-272.99	-6.58	3.51	-0.07	-5.99	4.98
22J6-7I	0.00	ELU5	-284.00	-30.05	-5.16	0.14	-4.12	-33.86
22J6-7I	1.06	ELU5	-283.04	-18.44	-5.16	0.14	1.37	-8.13
22J6-7I	2.13	ELU5	-282.12	-7.26	-5.16	0.14	6.85	5.48

22J6-7I	0.00	ELS3	-273.76	-30.16	-3.79	0.09	-2.84	-34.80
22J6-7I	1.06	ELS3	-272.80	-18.55	-3.79	0.09	1.19	-8.97
22J6-7I	2.13	ELS3	-271.88	-7.36	-3.79	0.09	5.22	4.76
22T0-1D	0.00	ELU5	1826.03	-7.79	-2.23	0.05	-2.86	420.33
22T0-1D	1.06	ELU5	1825.74	16.16	-2.23	0.05	-0.49	415.88
22T0-1D	2.13	ELU5	1825.24	59.25	-2.23	0.05	1.87	377.61
22T0-1D	0.00	ELS3	1364.78	7.00	-1.05	0.03	-1.25	325.26
22T0-1D	1.06	ELS3	1364.49	31.54	-1.05	0.03	-0.13	304.78
22T0-1D	2.13	ELS3	1364.20	56.04	-1.05	0.03	0.99	258.25
22T0-1I	0.00	ELU5	1760.60	37.84	0.43	-0.03	1.35	452.14
22T0-1I	1.06	ELU5	1760.32	61.78	0.43	-0.03	0.89	399.21
22T0-1I	2.13	ELU5	1760.04	85.68	0.43	-0.03	0.43	320.86
22T0-1I	0.00	ELS3	1338.98	24.52	1.45	-0.04	2.49	333.45
22T0-1I	1.06	ELS3	1338.78	42.15	1.45	-0.04	0.95	298.03
22T0-1I	2.13	ELS3	1338.57	59.75	1.45	-0.04	-0.59	243.89
22T1-2D	0.00	ELU5	1507.20	61.14	-4.76	0.05	-3.69	410.20
22T1-2D	1.06	ELU5	1506.64	108.30	-4.76	0.05	1.37	320.18
22T1-2D	2.00	ELU5	1506.15	149.88	-4.76	0.05	5.84	199.15
22T1-2D	2.00	ELU5	1506.15	150.09	-4.76	0.05	5.84	199.15
22T1-2D	2.13	ELU5	1506.08	155.63	-4.76	0.05	6.43	180.05
22T1-2D	0.00	ELS3	1069.21	67.32	-3.36	0.03	-2.75	302.14
22T1-2D	1.06	ELS3	1068.94	90.56	-3.36	0.03	0.82	217.73
22T1-2D	2.00	ELS3	1068.75	106.01	-3.36	0.03	3.97	125.59
22T1-2D	2.00	ELS3	1068.75	106.21	-3.36	0.03	3.97	125.59
22T1-2D	2.13	ELS3	1068.73	108.27	-3.36	0.03	4.39	112.19
22T1-2I	0.00	ELU5	1358.22	95.80	2.92	-0.02	1.29	396.80
22T1-2I	1.06	ELU5	1357.94	119.66	2.92	-0.02	-1.81	282.33
22T1-2I	2.00	ELU5	1357.70	140.67	2.92	-0.02	-4.54	160.29
22T1-2I	2.00	ELU5	1357.69	140.88	2.92	-0.02	-4.54	160.29
22T1-2I	2.13	ELU5	1357.66	143.68	2.92	-0.02	-4.91	142.51
22T1-2I	0.00	ELS3	1018.27	73.40	3.66	-0.03	2.18	293.10
22T1-2I	1.06	ELS3	1018.06	90.95	3.66	-0.03	-1.70	205.79
22T1-2I	2.00	ELS3	1017.88	106.39	3.66	-0.03	-5.13	113.28
22T1-2I	2.00	ELS3	1017.88	106.60	3.66	-0.03	-5.13	113.28
22T1-2I	2.13	ELS3	1017.86	108.66	3.66	-0.03	-5.59	99.82
22T2-3D	0.00	ELU5	659.26	160.87	-3.23	0.02	-3.98	383.14
22T2-3D	1.06	ELU5	658.91	191.07	-3.23	0.02	-0.55	197.32
22T2-3D	2.00	ELU5	658.57	219.92	-3.23	0.02	2.48	4.67





22T2-3D	2.00	ELU5	658.18	252.72	-3.23	0.02	2.48	4.67
22T2-3D	2.13	ELU5	658.15	255.69	-3.23	0.02	2.88	-27.13
22T2-3D	0.00	ELS3	404.02	122.64	-2.50	0.02	-2.84	264.73
22T2-3D	1.06	ELS3	403.79	142.01	-2.50	0.02	-0.18	124.47
22T2-3D	2.00	ELS3	403.58	159.72	-2.50	0.02	2.16	-16.97
22T2-3D	2.00	ELS3	403.58	159.72	-2.50	0.02	2.16	-16.97
22T2-3D	2.13	ELS3	403.56	161.21	-2.50	0.02	2.47	-37.05
22T2-3I	0.00	ELU5	531.45	154.14	1.55	0.00	2.77	345.28
22T2-3I	1.06	ELU5	531.09	184.34	1.55	0.00	1.12	166.62
22T2-3I	2.00	ELU5	530.75	213.18	1.55	0.00	-0.34	-19.73
22T2-3I	2.00	ELU5	530.75	213.18	1.55	0.00	-0.34	-19.73
22T2-3I	2.13	ELU5	530.72	216.15	1.55	0.00	-0.54	-46.58
22T2-3I	0.00	ELS3	338.64	123.47	2.55	-0.01	3.71	256.78
22T2-3I	1.06	ELS3	338.41	142.84	2.55	-0.01	1.00	115.63
22T2-3I	2.00	ELS3	338.20	160.55	2.55	-0.01	-1.39	-26.58
22T2-3I	2.00	ELS3	338.20	160.55	2.55	-0.01	-1.39	-26.58
22T2-3I	2.13	ELS3	338.19	162.04	2.55	-0.01	-1.70	-46.77
22T3-4D	0.00	ELU5	9.81	258.08	21.52	-0.11	17.02	280.37
22T3-4D	0.81	ELU5	9.79	259.88	21.52	-0.11	-0.47	69.95
22T3-4D	1.38	ELU5	9.78	261.11	21.52	-0.11	-12.57	-76.58
22T3-4D	1.38	ELU5	8.60	361.41	21.52	-0.11	-12.57	-76.58
22T3-4D	1.63	ELU5	8.59	361.95	21.52	-0.11	-17.95	-167.01
22T3-4D	0.00	ELS3	-61.87	174.68	16.10	-0.08	12.53	181.62
22T3-4D	0.81	ELS3	-61.89	176.48	16.10	-0.08	-0.55	38.96
22T3-4D	1.38	ELS3	-61.90	177.70	16.10	-0.08	-9.60	-60.66
22T3-4D	1.38	ELS3	-63.08	278.00	16.10	-0.08	-9.60	-60.66
22T3-4D	1.63	ELS3	-63.09	278.55	16.10	-0.08	-13.63	-130.23
22T3-4I	0.00	ELU5	-27.89	227.21	-24.38	0.13	-19.75	233.62
22T3-4I	0.81	ELU5	-27.91	229.01	-24.38	0.13	0.06	48.28
22T3-4I	1.38	ELU5	-27.92	230.24	-24.38	0.13	13.77	-80.88
22T3-4I	1.38	ELU5	-29.10	330.54	-24.38	0.13	13.77	-80.88
22T3-4I	1.63	ELU5	-29.11	331.08	-24.38	0.13	19.86	-163.60
22T3-4I	0.00	ELS3	-92.43	176.20	-17.85	0.09	-14.65	171.66
22T3-4I	0.81	ELS3	-92.45	178.00	-17.85	0.09	-0.15	27.76
22T3-4I	1.38	ELS3	-92.47	179.23	-17.85	0.09	9.89	-72.71
22T3-4I	1.38	ELS3	-93.65	279.53	-17.85	0.09	9.89	-72.71
22T3-4I	1.63	ELS3	-93.65	280.07	-17.85	0.09	14.35	-142.67
23J5-6D	0.00	ELU5	-1360.94	108.13	30.86	-0.60	27.59	2.36

23J5-6D	0.81	ELU5	-1361.69	117.29	30.86	-0.60	2.54	-89.10
23J5-6D	1.62	ELU5	-1362.47	126.70	30.86	-0.60	-22.51	-188.10
23J5-6D	0.00	ELS3	-1179.03	96.27	21.32	-0.43	20.16	2.21
23J5-6D	0.81	ELS3	-1179.78	105.43	21.32	-0.43	2.86	-79.63
23J5-6D	1.62	ELS3	-1180.56	114.84	21.32	-0.43	-14.44	-169.01
23J5-6I	0.00	ELU5	-1136.65	109.54	-30.94	0.59	-25.21	4.45
23J5-6I	0.81	ELU5	-1137.40	118.70	-30.94	0.59	-0.09	-88.16
23J5-6I	1.62	ELU5	-1138.18	128.11	-30.94	0.59	25.02	-188.31
23J5-6I	0.00	ELS3	-1049.35	101.48	-23.17	0.45	-19.20	1.39
23J5-6I	0.81	ELS3	-1050.11	110.64	-23.17	0.45	-0.40	-84.68
23J5-6I	1.62	ELS3	-1050.88	120.05	-23.17	0.45	18.40	-178.28
23J6-7D	0.00	ELU5	-36.91	-42.22	8.39	-0.31	15.19	-58.94
23J6-7D	1.06	ELU5	-35.95	-30.61	8.39	-0.31	6.27	-20.29
23J6-7D	2.13	ELU5	-35.03	-19.43	8.39	-0.31	-2.65	6.26
23J6-7D	0.00	ELS3	-57.72	-39.90	6.23	-0.22	12.31	-54.35
23J6-7D	1.06	ELS3	-56.77	-28.29	6.23	-0.22	5.69	-18.16
23J6-7D	2.13	ELS3	-55.84	-17.11	6.23	-0.22	-0.93	5.92
23J6-7I	0.00	ELU5	-4.65	-40.29	-7.80	0.29	-12.04	-54.13
23J6-7I	1.06	ELU5	-3.70	-28.68	-7.80	0.29	-3.75	-17.52
23J6-7I	2.13	ELU5	-2.78	-17.50	-7.80	0.29	4.54	6.97
23J6-7I	0.00	ELS3	-32.98	-39.30	-6.11	0.22	-10.10	-53.02
23J6-7I	1.06	ELS3	-32.03	-27.68	-6.11	0.22	-3.61	-17.47
23J6-7I	2.13	ELS3	-31.11	-16.50	-6.11	0.22	2.88	5.96
23T0-1D	0.00	ELU5	2123.32	5.34	-1.50	-0.02	-1.24	475.46
23T0-1D	1.06	ELU5	2123.04	29.29	-1.50	-0.02	0.35	457.06
23T0-1D	2.13	ELU5	2122.53	72.38	-1.50	-0.02	1.94	404.84
23T0-1D	0.00	ELS3	1640.58	15.37	-0.67	-0.02	-0.78	376.30
23T0-1D	1.06	ELS3	1640.29	39.91	-0.67	-0.02	-0.06	346.93
23T0-1D	2.13	ELS3	1640.00	64.41	-0.67	-0.02	0.65	291.51
23T0-1I	0.00	ELU5	2051.96	46.17	0.33	0.03	-0.45	501.02
23T0-1I	1.06	ELU5	2051.68	70.12	0.33	0.03	-0.80	439.23
23T0-1I	2.13	ELU5	2051.40	94.02	0.33	0.03	-1.15	352.03
23T0-1I	0.00	ELS3	1616.70	33.89	0.92	0.02	0.01	384.08
23T0-1I	1.06	ELS3	1616.49	51.53	0.92	0.02	-0.97	338.69
23T0-1I	2.13	ELS3	1616.29	69.12	0.92	0.02	-1.94	274.59
23T1-2D	0.00	ELU5	1831.30	88.18	0.63	0.02	-2.70	478.75
23T1-2D	1.06	ELU5	1830.75	135.34	0.63	0.02	-3.37	360.00
23T1-2D	2.00	ELU5	1830.26	176.92	0.63	0.02	-3.96	213.62





23T1-2D	2.00	ELU5	1830.26	177.13	0.63	0.02	-3.96	213.62
23T1-2D	2.13	ELU5	1830.19	182.67	0.63	0.02	-4.04	191.13
23T1-2D	0.00	ELS3	1371.44	86.53	0.76	0.01	-1.48	365.22
23T1-2D	1.06	ELS3	1371.16	109.76	0.76	0.01	-2.29	260.40
23T1-2D	2.00	ELS3	1370.98	125.21	0.76	0.01	-3.00	150.25
23T1-2D	2.00	ELS3	1370.98	125.42	0.76	0.01	-3.00	150.25
23T1-2D	2.13	ELS3	1370.95	127.48	0.76	0.01	-3.10	134.45
23T1-2I	0.00	ELU5	1660.67	117.59	-1.89	0.00	1.87	457.60
23T1-2I	1.06	ELU5	1660.39	141.45	-1.89	0.00	3.87	319.98
23T1-2I	2.00	ELU5	1660.14	162.46	-1.89	0.00	5.64	177.52
23T1-2I	2.00	ELU5	1660.14	162.67	-1.89	0.00	5.64	177.52
23T1-2I	2.13	ELU5	1660.10	165.47	-1.89	0.00	5.88	157.01
23T1-2I	0.00	ELS3	1311.97	93.77	-0.73	-0.01	2.69	354.12
23T1-2I	1.06	ELS3	1311.76	111.32	-0.73	-0.01	3.46	245.16
23T1-2I	2.00	ELS3	1311.58	126.76	-0.73	-0.01	4.15	133.56
23T1-2I	2.00	ELS3	1311.58	126.97	-0.73	-0.01	4.15	133.56
23T1-2I	2.13	ELS3	1311.56	129.03	-0.73	-0.01	4.24	117.56
23T2-3D	0.00	ELU5	1018.60	195.62	-7.67	0.02	-3.74	341.64
23T2-3D	1.06	ELU5	1018.25	225.82	-7.67	0.02	4.41	118.89
23T2-3D	2.00	ELU5	1017.91	254.67	-7.67	0.02	11.61	-106.34
23T2-3D	2.00	ELU5	1017.52	287.47	-7.67	0.02	11.61	-106.34
23T2-3D	2.13	ELU5	1017.48	290.44	-7.67	0.02	12.56	-142.48
23T2-3D	0.00	ELS3	746.87	147.96	-6.00	0.02	-3.36	245.54
23T2-3D	1.06	ELS3	746.64	167.33	-6.00	0.02	3.01	78.38
23T2-3D	2.00	ELS3	746.43	185.04	-6.00	0.02	8.64	-86.80
23T2-3D	2.00	ELS3	746.43	185.04	-6.00	0.02	8.64	-86.80
23T2-3D	2.13	ELS3	746.41	186.53	-6.00	0.02	9.39	-110.04
23T2-3I	0.00	ELU5	846.83	183.24	6.25	0.00	1.38	302.27
23T2-3I	1.06	ELU5	846.47	213.44	6.25	0.00	-5.25	92.69
23T2-3I	2.00	ELU5	846.13	242.28	6.25	0.00	-11.11	-120.93
23T2-3I	2.00	ELU5	846.13	242.28	6.25	0.00	-11.11	-120.93
23T2-3I	2.13	ELU5	846.10	245.25	6.25	0.00	-11.89	-151.42
23T2-3I	0.00	ELS3	651.32	149.67	6.46	-0.02	2.29	227.14
23T2-3I	1.06	ELS3	651.09	169.04	6.46	-0.02	-4.58	58.16
23T2-3I	2.00	ELS3	650.88	186.75	6.46	-0.02	-10.64	-108.61
23T2-3I	2.00	ELS3	650.88	186.75	6.46	-0.02	-10.64	-108.61
23T2-3I	2.13	ELS3	650.87	188.24	6.46	-0.02	-11.44	-132.07
23T3-4D	0.00	ELU5	-1327.66	372.75	-6.01	0.04	-6.59	235.97

23T3-4D	0.81	ELU5	-1327.68	374.54	-6.01	0.04	-1.70	-67.63
23T3-4D	1.38	ELU5	-1327.69	375.77	-6.01	0.04	1.68	-278.65
23T3-4D	1.38	ELU5	-1328.87	476.07	-6.01	0.04	1.68	-278.65
23T3-4D	1.63	ELU5	-1328.88	476.61	-6.01	0.04	3.18	-397.75
23T3-4D	0.00	ELS3	-1023.50	261.92	-6.48	0.05	-5.98	155.13
23T3-4D	0.81	ELS3	-1023.52	263.72	-6.48	0.05	-0.72	-58.42
23T3-4D	1.38	ELS3	-1023.53	264.95	-6.48	0.05	2.93	-207.10
23T3-4D	1.38	ELS3	-1024.71	365.25	-6.48	0.05	2.93	-207.10
23T3-4D	1.63	ELS3	-1024.72	365.79	-6.48	0.05	4.54	-298.49
23T3-4I	0.00	ELU5	-1387.03	332.17	1.00	-0.02	4.27	192.36
23T3-4I	0.81	ELU5	-1387.05	333.97	1.00	-0.02	3.46	-78.26
23T3-4I	1.38	ELU5	-1387.07	335.20	1.00	-0.02	2.89	-266.46
23T3-4I	1.38	ELU5	-1388.25	435.50	1.00	-0.02	2.89	-266.46
23T3-4I	1.63	ELU5	-1388.25	436.04	1.00	-0.02	2.64	-375.42
23T3-4I	0.00	ELS3	-1230.94	267.56	4.85	-0.04	6.61	142.50
23T3-4I	0.81	ELS3	-1230.96	269.35	4.85	-0.04	2.67	-75.63
23T3-4I	1.38	ELS3	-1230.97	270.58	4.85	-0.04	-0.06	-227.48
23T3-4I	1.38	ELS3	-1232.15	370.88	4.85	-0.04	-0.06	-227.48
23T3-4I	1.63	ELS3	-1232.16	371.42	4.85	-0.04	-1.27	-320.28
24J5-6D	0.00	ELU5	486.05	115.34	68.26	-0.04	45.03	100.48
24J5-6D	0.81	ELU5	485.29	124.50	68.26	-0.04	-10.38	3.16
24J5-6D	1.62	ELU5	484.52	133.91	68.26	-0.04	-65.78	-101.69
24J5-6D	0.00	ELS3	341.31	107.92	56.25	0.02	35.29	76.40
24J5-6D	0.81	ELS3	340.56	117.08	56.25	0.02	-10.37	-14.90
24J5-6D	1.62	ELS3	339.78	126.49	56.25	0.02	-56.02	-113.73
24J5-6I	0.00	ELU5	351.95	104.60	-44.25	0.01	-33.19	104.51
24J5-6I	0.81	ELU5	351.20	113.76	-44.25	0.01	2.72	15.92
24J5-6I	1.62	ELU5	350.42	123.17	-44.25	0.01	38.64	-80.22
24J5-6I	0.00	ELS3	248.69	100.78	-36.62	-0.06	-26.77	84.31
24J5-6I	0.81	ELS3	247.93	109.94	-36.62	-0.06	2.95	-1.19
24J5-6I	1.62	ELS3	247.16	119.35	-36.62	-0.06	32.67	-94.22
24J6-7D	0.00	ELU5	46.72	-25.19	-9.05	0.20	-22.00	-13.99
24J6-7D	1.06	ELU5	47.67	-13.58	-9.05	0.20	-12.39	6.57
24J6-7D	2.13	ELU5	48.59	-2.39	-9.05	0.20	-2.78	15.02
24J6-7D	0.00	ELS3	13.16	-27.12	-7.78	0.18	-18.88	-20.23
24J6-7D	1.06	ELS3	14.11	-15.51	-7.78	0.18	-10.61	2.38
24J6-7D	2.13	ELS3	15.03	-4.33	-7.78	0.18	-2.35	12.88
24J6-7I	0.00	ELU5	38.97	-25.26	7.99	-0.20	16.92	-14.19



24J6-7I	1.06	ELU5	39.93	-13.65	7.99	-0.20	8.43	6.44
24J6-7I	2.13	ELU5	40.85	-2.46	7.99	-0.20	-0.05	14.96
24J6-7I	0.00	ELS3	-3.09	-27.00	7.68	-0.20	15.70	-20.12
24J6-7I	1.06	ELS3	-2.13	-15.38	7.68	-0.20	7.54	2.35
24J6-7I	2.13	ELS3	-1.21	-4.20	7.68	-0.20	-0.62	12.72
24T0-1D	0.00	ELU5	1287.21	18.71	3.31	-0.02	1.79	360.32
24T0-1D	1.06	ELU5	1286.93	42.65	3.31	-0.02	-1.73	327.72
24T0-1D	1.55	ELU5	1286.73	60.20	3.31	-0.02	-3.34	303.26
24T0-1D	1.55	ELU5	1286.73	60.20	3.31	-0.02	-3.34	303.26
24T0-1D	2.05	ELU5	1286.46	82.41	3.31	-0.02	-5.00	267.61
24T0-1D	2.05	ELU5	1286.46	82.41	3.31	-0.02	-5.00	267.61
24T0-1D	2.13	ELU5	1286.42	85.75	3.31	-0.02	-5.25	261.30
24T0-1D	0.00	ELS3	969.87	22.26	2.80	-0.02	1.96	279.99
24T0-1D	1.06	ELS3	969.58	46.81	2.80	-0.02	-1.02	243.29
24T0-1D	1.55	ELS3	969.45	58.05	2.80	-0.02	-2.39	217.73
24T0-1D	1.55	ELS3	969.45	58.05	2.80	-0.02	-2.39	217.73
24T0-1D	2.05	ELS3	969.32	69.58	2.80	-0.02	-3.79	185.82
24T0-1D	2.05	ELS3	969.32	69.58	2.80	-0.02	-3.79	185.82
24T0-1D	2.13	ELS3	969.30	71.31	2.80	-0.02	-4.00	180.54
24T0-1I	0.00	ELU5	1233.19	49.88	-3.92	0.03	-1.98	376.59
24T0-1I	0.45	ELU5	1233.07	60.03	-3.92	0.03	-0.21	351.86
24T0-1I	0.45	ELU5	1233.07	60.03	-3.92	0.03	-0.21	351.86
24T0-1I	1.06	ELU5	1232.91	73.83	-3.92	0.03	2.19	310.87
24T0-1I	2.13	ELU5	1232.63	97.73	-3.92	0.03	6.36	219.72
24T0-1I	0.00	ELS3	954.33	40.45	-3.04	0.02	-1.11	288.52
24T0-1I	0.45	ELS3	954.24	47.93	-3.04	0.02	0.26	268.63
24T0-1I	0.45	ELS3	954.24	47.93	-3.04	0.02	0.26	268.63
24T0-1I	1.06	ELS3	954.12	58.09	-3.04	0.02	2.13	236.16
24T0-1I	2.13	ELS3	953.91	75.68	-3.04	0.02	5.36	165.09
24T1-2D	0.00	ELU5	1197.56	123.12	5.48	-0.16	9.29	416.62
24T1-2D	1.06	ELU5	1197.00	170.28	5.48	-0.16	3.46	260.75
24T1-2D	1.93	ELU5	1196.55	208.53	5.48	-0.16	-1.27	97.38
24T1-2D	1.93	ELU5	1196.55	208.53	5.48	-0.16	-1.27	97.38
24T1-2D	2.00	ELU5	1196.51	211.86	5.48	-0.16	-1.68	81.62
24T1-2D	2.00	ELU5	1196.51	212.07	5.48	-0.16	-1.68	81.62
24T1-2D	2.13	ELU5	1196.45	217.61	5.48	-0.16	-2.37	54.76
24T1-2D	0.00	ELS3	877.12	110.73	4.83	-0.13	7.46	314.15
24T1-2D	1.06	ELS3	876.84	133.97	4.83	-0.13	2.32	183.61

24T1-2D	1.93	ELS3	876.67	148.18	4.83	-0.13	-1.84	61.93
24T1-2D	1.93	ELS3	876.67	148.18	4.83	-0.13	-1.84	61.93
24T1-2D	2.00	ELS3	876.66	149.42	4.83	-0.13	-2.20	50.77
24T1-2D	2.00	ELS3	876.66	149.62	4.83	-0.13	-2.20	50.77
24T1-2D	2.13	ELS3	876.63	151.68	4.83	-0.13	-2.81	31.94
24T1-2I	0.00	ELU5	1080.24	141.44	-5.82	0.17	-10.30	386.85
24T1-2I	1.06	ELU5	1079.95	165.30	-5.82	0.17	-4.12	223.89
24T1-2I	2.00	ELU5	1079.71	186.31	-5.82	0.17	1.33	59.07
24T1-2I	2.00	ELU5	1079.70	186.52	-5.82	0.17	1.33	59.07
24T1-2I	2.13	ELU5	1079.67	189.32	-5.82	0.17	2.06	35.58
24T1-2I	0.00	ELS3	857.50	116.77	-4.51	0.14	-8.52	304.41
24T1-2I	1.06	ELS3	857.29	134.32	-4.51	0.14	-3.73	171.01
24T1-2I	2.00	ELS3	857.11	149.77	-4.51	0.14	0.50	37.84
24T1-2I	2.00	ELS3	857.11	149.97	-4.51	0.14	0.50	37.84
24T1-2I	2.13	ELS3	857.09	152.03	-4.51	0.14	1.07	18.97
24T2-3D	0.00	ELU5	951.84	261.47	18.29	-0.21	10.54	411.27
24T2-3D	1.06	ELU5	951.49	291.67	18.29	-0.21	-8.89	118.56
24T2-3D	2.00	ELU5	951.15	320.52	18.29	-0.21	-26.04	-168.41
24T2-3D	2.00	ELU5	950.76	353.32	18.29	-0.21	-26.04	-168.41
24T2-3D	2.13	ELU5	950.73	356.29	18.29	-0.21	-28.32	-212.78
24T2-3D	0.00	ELS3	722.33	196.38	14.65	-0.17	9.17	307.21
24T2-3D	1.06	ELS3	722.10	215.75	14.65	-0.17	-6.39	88.60
24T2-3D	2.00	ELS3	721.90	233.46	14.65	-0.17	-20.13	-121.97
24T2-3D	2.00	ELS3	721.90	233.46	14.65	-0.17	-20.13	-121.97
24T2-3D	2.13	ELS3	721.88	234.95	14.65	-0.17	-21.96	-151.26
24T2-3I	0.00	ELU5	858.51	236.92	-18.61	0.21	-9.90	364.31
24T2-3I	1.06	ELU5	858.15	267.12	-18.61	0.21	9.87	97.69
24T2-3I	2.00	ELU5	857.81	295.97	-18.61	0.21	27.32	-166.26
24T2-3I	2.00	ELU5	857.81	295.97	-18.61	0.21	27.32	-166.26
24T2-3I	2.13	ELU5	857.78	298.94	-18.61	0.21	29.64	-203.46
24T2-3I	0.00	ELS3	721.01	197.37	-15.24	0.17	-7.60	293.98
24T2-3I	1.06	ELS3	720.78	216.73	-15.24	0.17	8.60	74.33
24T2-3I	2.00	ELS3	720.57	234.45	-15.24	0.17	22.89	-137.16
24T2-3I	2.00	ELS3	720.57	234.45	-15.24	0.17	22.89	-137.16
24T2-3I	2.13	ELS3	720.56	235.93	-15.24	0.17	24.80	-166.58
24T3-4D	0.00	ELU5	1350.22	476.92	-43.59	-0.40	-22.56	168.26
24T3-4D	0.81	ELU5	1350.20	478.71	-43.59	-0.40	12.86	-219.98
24T3-4D	1.38	ELU5	1350.18	479.94	-43.59	-0.40	37.38	-489.59



24T3-4D	1.38	ELU5	1349.00	580.24	-43.59	-0.40	37.38	-489.59
24T3-4D	1.63	ELU5	1349.00	580.78	-43.59	-0.40	48.28	-634.74
24T3-4D	0.00	ELS3	1115.40	329.71	-30.64	-0.30	-16.63	131.76
24T3-4D	0.81	ELS3	1115.38	331.51	-30.64	-0.30	8.27	-136.87
24T3-4D	1.38	ELS3	1115.37	332.74	-30.64	-0.30	25.50	-323.68
24T3-4D	1.38	ELS3	1114.19	433.04	-30.64	-0.30	25.50	-323.68
24T3-4D	1.63	ELS3	1114.18	433.58	-30.64	-0.30	33.16	-432.02
24T3-4I	0.00	ELU5	1304.34	411.07	51.95	0.38	25.07	129.34
24T3-4I	0.81	ELU5	1304.32	412.87	51.95	0.38	-17.14	-205.40
24T3-4I	1.38	ELU5	1304.30	414.10	51.95	0.38	-46.36	-437.98
24T3-4I	1.38	ELU5	1303.12	514.40	51.95	0.38	-46.36	-437.98
24T3-4I	1.63	ELU5	1303.12	514.94	51.95	0.38	-59.35	-566.66
24T3-4I	0.00	ELS3	1193.71	332.08	48.20	0.30	24.41	101.94
24T3-4I	0.81	ELS3	1193.69	333.88	48.20	0.30	-14.75	-168.61
24T3-4I	1.38	ELS3	1193.67	335.11	48.20	0.30	-41.86	-356.76
24T3-4I	1.38	ELS3	1192.49	435.41	48.20	0.30	-41.86	-356.76
24T3-4I	1.63	ELS3	1192.49	435.95	48.20	0.30	-53.91	-465.69
A17-18D	0.00	ELU5	-16454.52	2401.75	974.29	-3235.88	10511.79	-5089.47
A17-18D	1.25	ELU5	-16473.14	2478.52	973.35	-3079.20	9294.13	-8139.44
A17-18D	2.50	ELU5	-16494.44	2566.59	972.40	-2909.13	8077.64	-11292.47
A17-18D	0.00	ELS3	-12802.44	1866.79	800.12	-2409.14	6305.49	-3766.53
A17-18D	1.25	ELS3	-12819.98	1940.63	800.12	-2282.47	5305.01	-6145.76
A17-18D	2.50	ELS3	-12840.20	2025.76	800.12	-2142.85	4304.53	-8624.38
A17-18I	0.00	ELU5	-14538.72	2275.55	-953.31	2978.67	-5539.22	-5025.82
A17-18I	1.25	ELU5	-14556.62	2352.50	-954.26	2828.77	-4346.60	-7918.10
A17-18I	2.50	ELU5	-14577.20	2440.74	-955.20	2665.48	-3152.81	-10913.66
A17-18I	0.00	ELS3	-12735.83	1843.77	-805.06	2364.67	-6125.74	-3798.02
A17-18I	1.25	ELS3	-12753.37	1917.61	-805.06	2239.25	-5119.08	-6148.47
A17-18I	2.50	ELS3	-12773.59	2002.74	-805.06	2100.87	-4112.43	-8598.30
A18-19D	0.00	ELU5	-17031.11	1476.11	1482.34	-4472.12	15975.00	-9605.55
A18-19D	1.25	ELU5	-17062.70	1576.49	1480.98	-4334.11	14121.60	-11513.13
A18-19D	2.50	ELU5	-17099.23	1692.89	1479.62	-4174.82	12269.90	-13556.29
A18-19D	0.00	ELS3	-12894.01	1188.66	1057.69	-3505.37	11004.21	-7318.30
A18-19D	1.25	ELS3	-12924.04	1285.85	1057.69	-3386.68	9681.15	-8864.31
A18-19D	2.50	ELS3	-12959.02	1399.05	1057.69	-3247.19	8358.09	-10541.90
A18-19I	0.00	ELU5	-14140.99	1506.90	-1075.30	4516.84	-11981.64	-9379.81
A18-19I	1.25	ELU5	-14171.54	1607.60	-1076.66	4376.74	-10635.70	-11326.09
A18-19I	2.50	ELU5	-14207.03	1724.30	-1078.02	4215.33	-9288.06	-13408.36

A18-19I	0.00	ELS3	-12801.35	1169.67	-1052.75	3491.41	-10837.67	-7336.17
A18-19I	1.25	ELS3	-12831.38	1266.86	-1052.75	3373.88	-9520.79	-8858.42
A18-19I	2.50	ELS3	-12866.35	1380.04	-1052.75	3235.56	-8203.90	-10512.26
A19-20D	0.00	ELU5	-17078.09	883.08	1744.28	-5219.39	19977.40	-12112.96
A19-20D	1.25	ELU5	-17125.82	1011.91	1742.41	-5101.12	17797.95	-13296.19
A19-20D	2.50	ELU5	-17178.05	1153.08	1740.53	-4962.01	15620.84	-14648.19
A19-20D	0.00	ELS3	-12957.36	773.60	1263.54	-4135.73	14558.07	-9293.92
A19-20D	1.25	ELS3	-13002.99	898.90	1263.54	-4024.98	12978.46	-10338.07
A19-20D	2.50	ELS3	-13053.11	1036.54	1263.54	-3893.76	11398.84	-11546.59
A19-20I	0.00	ELU5	-14214.67	1031.97	-1336.14	5327.18	-16937.37	-11799.98
A19-20I	1.25	ELU5	-14260.96	1161.31	-1338.01	5201.18	-15265.82	-13169.67
A19-20I	2.50	ELU5	-14311.75	1303.01	-1339.89	5054.25	-13591.92	-14708.77
A19-20I	0.00	ELS3	-12863.00	763.43	-1257.12	4132.43	-14409.60	-9300.11
A19-20I	1.25	ELS3	-12908.63	888.72	-1257.12	4022.21	-12838.01	-10331.55
A19-20I	2.50	ELS3	-12958.75	1026.36	-1257.12	3891.51	-11266.41	-11527.33
A20-21D	0.00	ELU5	-17332.16	719.02	1445.58	-4731.40	22585.74	-13934.05
A20-21D	1.25	ELU5	-17383.38	848.04	1443.73	-4935.98	20779.52	-14917.35
A20-21D	2.50	ELU5	-17420.86	941.89	1441.88	-5226.89	18975.61	-16039.97
A20-21D	0.00	ELS3	-13182.77	692.91	1025.22	-3703.13	17124.14	-10732.15
A20-21D	1.25	ELS3	-13231.60	817.90	1025.22	-3900.09	15842.32	-11680.28
A20-21D	2.50	ELS3	-13266.69	907.72	1025.22	-4180.62	14560.50	-12762.70
A20-21I	0.00	ELU5	-14461.09	906.88	-1036.60	4737.80	-20516.87	-13500.88
A20-21I	1.25	ELU5	-14510.89	1036.45	-1038.45	5005.37	-19219.67	-14719.39
A20-21I	2.50	ELU5	-14546.95	1130.86	-1040.31	5359.91	-17920.16	-16077.92
A20-21I	0.00	ELS3	-13075.85	686.03	-1013.63	3706.95	-17030.40	-10734.84
A20-21I	1.25	ELS3	-13124.68	811.02	-1013.63	3901.59	-15763.08	-11674.37
A20-21I	2.50	ELS3	-13159.77	900.85	-1013.63	4179.81	-14495.76	-12748.19
A21-22D	0.00	ELU5	-17110.93	183.03	1790.93	-3928.11	20136.46	-18945.43
A21-22D	1.25	ELU5	-17155.84	277.93	1788.50	-3941.15	17896.12	-19229.74
A21-22D	2.50	ELU5	-17219.35	413.13	1786.07	-3964.30	15658.81	-19658.07
A21-22D	0.00	ELS3	-13092.25	217.26	1308.07	-3381.84	15490.26	-14072.36
A21-22D	1.25	ELS3	-13134.09	307.91	1308.07	-3395.55	13852.84	-14396.86
A21-22D	2.50	ELS3	-13194.51	438.84	1308.07	-3419.13	12215.41	-14860.05
A21-22I	0.00	ELU5	-14632.71	105.74	-1593.02	3696.33	-16672.32	-13472.95
A21-22I	1.25	ELU5	-14675.81	201.55	-1595.45	3707.25	-14676.67	-13661.07
A21-22I	2.50	ELU5	-14737.53	337.74	-1597.88	3728.50	-12677.99	-13994.39
A21-22I	0.00	ELS3	-13186.39	101.72	-1392.61	2840.51	-14198.33	-11477.10
A21-22I	1.25	ELS3	-13228.24	192.41	-1392.61	2850.90	-12455.08	-11656.99



<b>A21-22I</b>	2.50	ELS3	-13288.73	323.49	-1392.61	2871.30	-10711.84	-11975.67
<b>A22-23D</b>	0.00	ELU5	-17264.90	-184.93	1325.06	-2844.90	15516.49	-19950.57
<b>A22-23D</b>	1.25	ELU5	-17339.13	-39.37	1322.63	-2862.20	13861.72	-19811.56
<b>A22-23D</b>	2.50	ELU5	-17407.67	94.88	1320.20	-2869.34	12209.98	-19847.44
<b>A22-23D</b>	0.00	ELS3	-13231.92	-18.69	956.36	-2559.23	12121.20	-15096.91
<b>A22-23D</b>	1.25	ELS3	-13303.71	124.09	956.36	-2570.81	10925.77	-15163.97
<b>A22-23D</b>	2.50	ELS3	-13369.80	255.56	956.36	-2572.40	9730.34	-15402.42
<b>A22-23I</b>	0.00	ELU5	-14777.83	-175.03	-1203.08	2869.10	-12605.72	-14246.06
<b>A22-23I</b>	1.25	ELU5	-14850.46	-28.49	-1205.51	2886.32	-11100.37	-14120.05
<b>A22-23I</b>	2.50	ELU5	-14917.35	106.63	-1207.94	2893.16	-9591.99	-14170.08
<b>A22-23I</b>	0.00	ELS3	-13324.42	-138.24	-1036.88	2138.25	-10639.31	-12180.59
<b>A22-23I</b>	1.25	ELS3	-13396.28	4.68	-1036.88	2153.95	-9343.23	-12098.31
<b>A22-23I</b>	2.50	ELS3	-13462.40	136.20	-1036.88	2159.51	-8047.16	-12187.55
<b>A23-24D</b>	0.00	ELU5	-17412.36	-779.66	990.33	-1854.49	12128.15	-20013.90
<b>A23-24D</b>	1.25	ELU5	-17482.32	-657.94	987.90	-1866.92	10891.68	-19115.92
<b>A23-24D</b>	2.50	ELU5	-17549.14	-541.76	985.47	-1876.62	9658.25	-18366.64
<b>A23-24D</b>	0.00	ELS3	-13381.41	-415.75	704.76	-1772.01	9683.21	-15540.44
<b>A23-24D</b>	1.25	ELS3	-13449.25	-295.99	704.76	-1780.43	8802.21	-15096.16
<b>A23-24D</b>	2.50	ELS3	-13513.96	-181.77	704.76	-1786.13	7921.20	-14798.12
<b>A23-24I</b>	0.00	ELU5	-14924.04	-643.62	-925.48	2118.55	-9574.12	-14313.27
<b>A23-24I</b>	1.25	ELU5	-14992.48	-521.04	-927.91	2129.54	-8415.68	-13585.88
<b>A23-24I</b>	2.50	ELU5	-15057.78	-404.00	-930.34	2137.75	-7254.20	-13008.27
<b>A23-24I</b>	0.00	ELS3	-13469.44	-540.38	-782.36	1502.44	-8015.69	-12302.50
<b>A23-24I</b>	1.25	ELS3	-13537.28	-420.62	-782.36	1512.22	-7037.68	-11702.41
<b>A23-24I</b>	2.50	ELS3	-13601.99	-306.39	-782.36	1519.28	-6059.66	-11248.58
<b>A24-25D</b>	0.00	ELU5	-17542.04	-1071.81	604.29	-1191.41	9475.53	-18518.11
<b>A24-25D</b>	1.25	ELU5	-17609.09	-963.15	601.28	-1195.83	8722.01	-17246.74
<b>A24-25D</b>	2.50	ELU5	-17672.99	-859.70	598.27	-1199.71	7972.26	-16107.95
<b>A24-25D</b>	0.00	ELS3	-13514.36	-589.37	414.09	-1230.13	7781.83	-14927.57
<b>A24-25D</b>	1.25	ELS3	-13579.20	-482.44	414.09	-1233.48	7264.20	-14258.20
<b>A24-25D</b>	2.50	ELS3	-13640.89	-380.70	414.09	-1236.28	6746.56	-13719.25
<b>A24-25I</b>	0.00	ELU5	-15055.27	-859.91	-603.99	1637.86	-7148.44	-13137.81
<b>A24-25I</b>	1.25	ELU5	-15120.61	-750.22	-607.00	1641.85	-6391.55	-12131.97
<b>A24-25I</b>	2.50	ELU5	-15182.80	-645.72	-610.00	1645.28	-5630.89	-11260.01
<b>A24-25I</b>	0.00	ELS3	-13600.25	-717.52	-488.29	1093.21	-5958.58	-11350.97
<b>A24-25I</b>	1.25	ELS3	-13665.09	-610.59	-488.29	1096.83	-5348.19	-10521.41
<b>A24-25I</b>	2.50	ELS3	-13726.78	-508.85	-488.29	1099.91	-4737.81	-9822.27
<b>A25-26D</b>	0.00	ELU5	-17637.10	-1414.56	602.77	-942.91	8009.03	-16106.45

<b>A25-26D</b>	1.25	ELU5	-17701.08	-1318.00	599.77	-946.35	7257.20	-14398.51
<b>A25-26D</b>	2.50	ELU5	-17762.21	-1225.81	596.76	-949.47	6509.13	-12808.58
<b>A25-26D</b>	0.00	ELS3	-13622.08	-809.13	417.52	-1019.59	6784.45	-13717.93
<b>A25-26D</b>	1.25	ELS3	-13683.88	-714.09	417.52	-1022.19	6262.38	-12766.07
<b>A25-26D</b>	2.50	ELS3	-13742.82	-623.43	417.52	-1024.47	5740.31	-11930.31
<b>A25-26I</b>	0.00	ELU5	-15154.87	-1122.44	-613.86	1500.71	-5681.94	-11258.76
<b>A25-26I</b>	1.25	ELU5	-15217.17	-1024.78	-616.86	1482.79	-4912.49	-9916.78
<b>A25-26I</b>	2.50	ELU5	-15276.62	-931.50	-619.87	1467.85	-4139.29	-8694.17
<b>A25-26I</b>	0.00	ELS3	-13703.89	-939.90	-491.76	977.82	-4771.86	-9821.28
<b>A25-26I</b>	1.25	ELS3	-13765.68	-844.86	-491.76	962.81	-4156.96	-8705.91
<b>A25-26I</b>	2.50	ELS3	-13824.62	-754.20	-491.76	950.69	-3542.07	-7706.63
<b>A26-27D</b>	0.00	ELU5	-17730.39	-1663.55	469.67	-696.76	6471.67	-12843.75
<b>A26-27D</b>	1.25	ELU5	-17791.95	-1575.97	465.84	-690.22	5886.97	-10819.19
<b>A26-27D</b>	2.50	ELU5	-17852.52	-1489.81	462.01	-684.49	5307.05	-8903.22
<b>A26-27D</b>	0.00	ELS3	-13725.88	-962.01	320.64	-797.97	5708.76	-11962.54
<b>A26-27D</b>	1.25	ELS3	-13785.05	-875.71	320.64	-794.89	5307.96	-10814.11
<b>A26-27D</b>	2.50	ELS3	-13843.24	-790.84	320.64	-792.61	4907.16	-9772.65
<b>A27-26I</b>	0.00	ELU5	-15252.99	-1308.51	-511.11	1301.70	-4134.16	-8722.44
<b>A27-26I</b>	1.25	ELU5	-15312.49	-1219.53	-514.94	1296.95	-3492.87	-7142.56
<b>A27-26I</b>	2.50	ELU5	-15371.03	-1131.97	-518.77	1293.03	-2846.80	-5673.01
<b>A27-26I</b>	0.00	ELS3	-13804.95	-1095.09	-393.73	806.55	-3528.95	-7728.73
<b>A27-26I</b>	1.25	ELS3	-13864.12	-1008.79	-393.73	802.80	-3036.78	-6413.94
<b>A27-26I</b>	2.50	ELS3	-13922.31	-923.92	-393.73	799.86	-2544.61	-5206.14
<b>A27-28D</b>	0.00	ELU5	-17838.01	-1685.59	331.50	-560.77	5271.63	-8933.05
<b>A27-28D</b>	0.51	ELU5	-17863.17	-1650.42	330.26	-561.64	5102.10	-8078.45
<b>A27-28D</b>	1.02	ELU5	-17888.33	-1615.24	329.02	-562.50	4933.21	-7241.87
<b>A27-28D</b>	0.00	ELS3	-13835.69	-942.50	221.17	-668.36	4868.56	-9801.19
<b>A27-28D</b>	0.51	ELS3	-13859.72	-908.26	221.17	-669.20	4755.25	-9327.07
<b>A27-28D</b>	1.02	ELS3	-13883.74	-874.03	221.17	-670.04	4641.93	-8870.49
<b>A27-28I</b>	0.00	ELU5	-15361.00	-1301.13	-407.11	1218.85	-2833.61	-5695.44
<b>A27-28I</b>	0.51	ELU5	-15385.52	-1265.51	-408.34	1219.73	-2624.71	-5037.93
<b>A27-28I</b>	1.02	ELU5	-15410.04	-1229.88	-409.58	1220.60	-2415.18	-4398.68
<b>A27-28I</b>	0.00	ELS3	-13913.81	-1076.78	-293.08	732.62	-2528.28	-5223.71
<b>A27-28I</b>	0.51	ELS3	-13937.83	-1042.54	-293.08	733.46	-2378.12	-4680.79
<b>A27-28I</b>	1.02	ELS3	-13961.86	-1008.30	-293.08	734.30	-2227.97	-4155.41
<b>D1.0-1D</b>	0.00	ELU5	119.02	291.56	-0.33	-0.33	1.37	-1090.10
<b>D1.0-1D</b>	0.46	ELU5	119.01	292.71	-0.33	-0.33	1.52	-1225.64
<b>D1.0-1D</b>	0.93	ELU5	119.00	293.84	-0.33	-0.33	1.68	-1361.71





D1.0-1D	1.39	ELU5	118.99	294.97	-0.33	-0.33	1.83	-1498.31
D1.0-1D	1.86	ELU5	118.99	296.10	-0.33	-0.33	1.98	-1635.44
D1.0-1D	2.32	ELU5	118.98	297.21	-0.33	-0.33	2.13	-1773.08
D1.0-1D	0.00	ELS3	86.88	235.95	-0.08	-0.26	0.36	-892.51
D1.0-1D	0.46	ELS3	86.87	237.10	-0.08	-0.26	0.39	-1002.25
D1.0-1D	0.93	ELS3	86.87	238.24	-0.08	-0.26	0.43	-1112.53
D1.0-1D	1.39	ELS3	86.86	239.37	-0.08	-0.26	0.47	-1223.33
D1.0-1D	1.86	ELS3	86.85	240.49	-0.08	-0.26	0.51	-1334.65
D1.0-1D	2.32	ELS3	86.85	241.61	-0.08	-0.26	0.54	-1446.49
D1.0-1I	0.00	ELU5	228.01	295.29	-0.15	0.30	0.67	-1080.51
D1.0-1I	0.46	ELU5	228.00	296.43	-0.15	0.30	0.74	-1217.79
D1.0-1I	0.93	ELU5	227.99	297.57	-0.15	0.30	0.81	-1355.59
D1.0-1I	1.39	ELU5	227.98	298.70	-0.15	0.30	0.88	-1493.92
D1.0-1I	1.86	ELU5	227.98	299.82	-0.15	0.30	0.95	-1632.77
D1.0-1I	2.32	ELU5	227.97	300.94	-0.15	0.30	1.02	-1772.14
D1.0-1I	0.00	ELS3	74.00	239.23	0.07	0.25	-0.30	-906.32
D1.0-1I	0.46	ELS3	73.99	240.37	0.07	0.25	-0.33	-1017.58
D1.0-1I	0.93	ELS3	73.99	241.51	0.07	0.25	-0.37	-1129.38
D1.0-1I	1.39	ELS3	73.98	242.64	0.07	0.25	-0.40	-1241.69
D1.0-1I	1.86	ELS3	73.97	243.76	0.07	0.25	-0.44	-1354.54
D1.0-1I	2.32	ELS3	73.96	244.88	0.07	0.25	-0.47	-1467.90
L12-13D	0.00	ELU5	3216.03	-83.75	156.32	-350.29	132.93	284.26
L12-13D	0.50	ELU5	3216.06	-79.46	156.32	-350.29	54.77	325.06
L12-13D	1.00	ELU5	3216.08	-75.17	156.32	-350.29	-23.38	363.71
L12-13D	1.50	ELU5	3216.10	-70.89	156.32	-350.29	-101.54	400.23
L12-13D	2.00	ELU5	3216.12	-66.60	156.32	-350.29	-179.70	434.60
L12-13D	2.50	ELU5	3216.15	-62.31	156.32	-350.29	-257.86	466.83
L12-13D	0.00	ELS3	2205.71	-7.56	1.53	-9.44	-42.28	231.18
L12-13D	0.50	ELS3	2205.73	-3.27	1.53	-9.44	-43.05	233.89
L12-13D	1.00	ELS3	2205.75	1.01	1.53	-9.44	-43.81	234.45
L12-13D	1.50	ELS3	2205.77	5.30	1.53	-9.44	-44.58	232.88
L12-13D	2.00	ELS3	2205.80	9.59	1.53	-9.44	-45.34	229.15
L12-13D	2.50	ELS3	2205.82	13.87	1.53	-9.44	-46.11	223.29
L9D-10D	0.00	ELU5	4263.12	272.44	82.23	-185.07	52.38	921.31
L9D-10D	1.25	ELU5	4263.26	283.15	82.23	-185.07	-50.41	574.07
L9D-10D	2.50	ELU5	4263.39	293.87	82.23	-185.07	-153.20	213.44
L9D-10D	0.00	ELS3	3597.54	208.68	32.53	-71.70	-2.31	772.11
L9D-10D	1.25	ELS3	3597.68	219.39	32.53	-71.70	-42.96	504.57

L9D-10D	2.50	ELS3	3597.81	230.11	32.53	-71.70	-83.62	223.63
L9I-10I	0.00	ELU5	4209.72	243.51	-68.05	156.51	-38.86	873.61
L9I-10I	1.25	ELU5	4209.86	254.23	-68.05	156.51	46.21	562.53
L9I-10I	2.50	ELU5	4209.99	264.94	-68.05	156.51	131.27	238.04
L9I-10I	0.00	ELS3	3586.57	206.63	-30.87	67.91	4.19	766.71
L9I-10I	1.25	ELS3	3586.70	217.35	-30.87	67.91	42.78	501.72
L9I-10I	2.50	ELS3	3586.84	228.06	-30.87	67.91	81.36	223.34
L10D-11D	0.00	ELU5	2188.53	752.93	68.37	-300.13	89.53	827.73
L10D-11D	1.25	ELU5	2188.66	763.64	68.37	-300.13	4.06	-120.12
L10D-11D	2.50	ELU5	2188.79	774.36	68.37	-300.13	-81.40	-1081.37
L10D-11D	0.00	ELS3	1918.36	601.14	5.60	-119.31	2.86	718.27
L10D-11D	1.25	ELS3	1918.49	611.85	5.60	-119.31	-4.15	-39.85
L10D-11D	2.50	ELS3	1918.63	622.57	5.60	-119.31	-11.16	-811.36
L10I-11I	0.00	ELU5	2337.86	688.67	-54.71	259.94	-70.65	806.17
L10I-11I	1.25	ELU5	2338.00	699.38	-54.71	259.94	-2.26	-61.36
L10I-11I	2.50	ELU5	2338.13	710.10	-54.71	259.94	66.12	-942.28
L10I-11I	0.00	ELS3	1922.33	596.59	-4.04	114.90	-0.55	714.40
L10I-11I	1.25	ELS3	1922.47	607.30	-4.04	114.90	4.50	-38.04
L10I-11I	2.50	ELS3	1922.60	618.02	-4.04	114.90	9.55	-803.86
L11D-12D	0.00	ELU5	1848.48	-618.98	130.31	-182.50	175.79	-912.94
L11D-12D	1.25	ELU5	1848.61	-608.26	130.31	-182.50	12.89	-145.92
L11D-12D	2.50	ELU5	1848.74	-597.55	130.31	-182.50	-150.00	607.72
L11D-12D	0.00	ELS3	1455.85	-441.72	23.23	47.02	27.08	-640.98
L11D-12D	1.25	ELS3	1455.99	-431.00	23.23	47.02	-1.96	-95.52
L11D-12D	2.50	ELS3	1456.12	-420.29	23.23	47.02	-31.00	436.54
L11I-12I	0.00	ELU5	1981.37	-550.95	-110.44	139.72	-144.02	-768.44
L11I-12I	1.25	ELU5	1981.51	-540.24	-110.44	139.72	-5.97	-86.44
L11I-12I	2.50	ELU5	1981.64	-529.52	-110.44	139.72	132.08	582.16
L11I-12I	0.00	ELS3	1464.32	-438.81	-21.38	-50.34	-25.00	-634.88
L11I-12I	1.25	ELS3	1464.46	-428.09	-21.38	-50.34	1.73	-93.07
L11I-12I	2.50	ELS3	1464.59	-417.38	-21.38	-50.34	28.46	435.35
L12I-13I	0.00	ELU5	3067.61	-47.63	-102.83	228.53	-62.70	302.95
L12I-13I	0.50	ELU5	3067.64	-43.34	-102.83	228.53	-11.28	325.69
L12I-13I	1.00	ELU5	3067.66	-39.06	-102.83	228.53	40.13	346.29
L12I-13I	1.50	ELU5	3067.68	-34.77	-102.83	228.53	91.55	364.75
L12I-13I	2.00	ELU5	3067.71	-30.48	-102.83	228.53	142.97	381.06
L12I-13I	2.50	ELU5	3067.73	-26.20	-102.83	228.53	194.38	395.23
L12I-13I	0.00	ELS3	2207.52	-7.18	-0.16	6.09	44.10	231.68





L12I-13I	0.50	ELS3	2207.54	-2.89	-0.16	6.09	44.18	234.19
L12I-13I	1.00	ELS3	2207.56	1.39	-0.16	6.09	44.26	234.57
L12I-13I	1.50	ELS3	2207.59	5.68	-0.16	6.09	44.34	232.80
L12I-13I	2.00	ELS3	2207.61	9.97	-0.16	6.09	44.42	228.89
L12I-13I	2.50	ELS3	2207.63	14.25	-0.16	6.09	44.50	222.83
L13D-14D	0.00	ELU5	2545.95	425.29	69.05	-281.54	30.71	624.43
L13D-14D	0.50	ELU5	2545.97	429.57	69.05	-281.54	-3.82	410.71
L13D-14D	1.00	ELU5	2545.99	433.86	69.05	-281.54	-38.35	194.85
L13D-14D	1.50	ELU5	2546.01	438.15	69.05	-281.54	-72.88	-23.15
L13D-14D	2.00	ELU5	2546.04	442.43	69.05	-281.54	-107.40	-243.29
L13D-14D	2.50	ELU5	2546.06	446.72	69.05	-281.54	-141.93	-465.58
L13D-14D	0.00	ELS3	1481.32	386.00	-17.24	-65.40	-22.67	432.14
L13D-14D	0.50	ELS3	1481.34	390.28	-17.24	-65.40	-14.05	238.07
L13D-14D	1.00	ELS3	1481.37	394.57	-17.24	-65.40	-5.44	41.86
L13D-14D	1.50	ELS3	1481.39	398.86	-17.24	-65.40	3.18	-156.50
L13D-14D	2.00	ELS3	1481.41	403.14	-17.24	-65.40	11.80	-357.00
L13D-14D	2.50	ELS3	1481.43	407.43	-17.24	-65.40	20.42	-559.64
L13I-14I	0.00	ELU5	2299.45	422.66	-24.26	176.80	11.40	571.02
L13I-14I	0.50	ELU5	2299.48	426.95	-24.26	176.80	23.53	358.62
L13I-14I	1.00	ELU5	2299.50	431.23	-24.26	176.80	35.66	144.08
L13I-14I	1.50	ELU5	2299.52	435.52	-24.26	176.80	47.79	-72.61
L13I-14I	2.00	ELU5	2299.54	439.81	-24.26	176.80	59.92	-291.44
L13I-14I	2.50	ELU5	2299.57	444.09	-24.26	176.80	72.05	-512.42
L13I-14I	0.00	ELS3	1485.85	383.91	18.79	61.58	24.03	430.86
L13I-14I	0.50	ELS3	1485.87	388.20	18.79	61.58	14.64	237.84
L13I-14I	1.00	ELS3	1485.89	392.49	18.79	61.58	5.24	42.67
L13I-14I	1.50	ELS3	1485.92	396.77	18.79	61.58	-4.16	-154.65
L13I-14I	2.00	ELS3	1485.94	401.06	18.79	61.58	-13.55	-354.11
L13I-14I	2.50	ELS3	1485.96	405.34	18.79	61.58	-22.95	-555.71
L14D-15D	0.00	ELU5	3190.23	-714.05	-79.00	300.99	-153.92	-826.86
L14D-15D	0.50	ELU5	3190.24	-709.76	-79.00	300.99	-114.42	-470.91
L14D-15D	1.00	ELU5	3190.24	-705.47	-79.00	300.99	-74.91	-117.10
L14D-15D	1.50	ELU5	3190.25	-701.19	-79.00	300.99	-35.41	234.56
L14D-15D	2.00	ELU5	3190.25	-696.90	-79.00	300.99	4.09	584.09
L14D-15D	2.50	ELU5	3190.25	-692.61	-79.00	300.99	43.59	931.47
L14D-15D	0.00	ELS3	1974.23	-614.69	2.72	91.70	2.75	-829.46
L14D-15D	0.50	ELS3	1974.24	-610.41	2.72	91.70	1.39	-523.18
L14D-15D	1.00	ELS3	1974.24	-606.12	2.72	91.70	0.03	-219.05

L14D-15D	1.50	ELS3	1974.24	-601.84	2.72	91.70	-1.33	82.94
L14D-15D	2.00	ELS3	1974.25	-597.55	2.72	91.70	-2.69	382.79
L14D-15D	2.50	ELS3	1974.25	-593.26	2.72	91.70	-4.05	680.49
L14I-15I	0.00	ELU5	2855.24	-683.32	53.74	-228.37	110.40	-832.94
L14I-15I	0.50	ELU5	2855.24	-679.03	53.74	-228.37	83.54	-492.35
L14I-15I	1.00	ELU5	2855.25	-674.74	53.74	-228.37	56.67	-153.91
L14I-15I	1.50	ELU5	2855.25	-670.46	53.74	-228.37	29.80	182.39
L14I-15I	2.00	ELU5	2855.25	-666.17	53.74	-228.37	2.93	516.55
L14I-15I	2.50	ELU5	2855.26	-661.88	53.74	-228.37	-23.94	848.56
L14I-15I	0.00	ELS3	1973.89	-611.04	-1.55	-94.14	-0.37	-823.45
L14I-15I	0.50	ELS3	1973.89	-606.76	-1.55	-94.14	0.41	-519.00
L14I-15I	1.00	ELS3	1973.90	-602.47	-1.55	-94.14	1.19	-216.69
L14I-15I	1.50	ELS3	1973.90	-598.18	-1.55	-94.14	1.96	83.47
L14I-15I	2.00	ELS3	1973.90	-593.90	-1.55	-94.14	2.74	381.49
L14I-15I	2.50	ELS3	1973.91	-589.61	-1.55	-94.14	3.52	677.37
L15D-16D	0.00	ELU5	4992.88	-203.33	-169.93	376.11	-262.06	453.00
L15D-16D	0.50	ELU5	4992.89	-199.04	-169.93	376.11	-177.09	553.60
L15D-16D	1.00	ELU5	4992.89	-194.76	-169.93	376.11	-92.12	652.05
L15D-16D	1.50	ELU5	4992.90	-190.47	-169.93	376.11	-7.16	748.35
L15D-16D	2.00	ELU5	4992.90	-186.18	-169.93	376.11	77.81	842.52
L15D-16D	2.50	ELU5	4992.90	-181.90	-169.93	376.11	162.78	934.54
L15D-16D	0.00	ELS3	3574.01	-220.15	-18.97	40.68	-58.60	217.23
L15D-16D	0.50	ELS3	3574.01	-215.86	-18.97	40.68	-49.11	326.23
L15D-16D	1.00	ELS3	3574.02	-211.57	-18.97	40.68	-39.63	433.09
L15D-16D	1.50	ELS3	3574.02	-207.29	-18.97	40.68	-30.14	537.81
L15D-16D	2.00	ELS3	3574.02	-203.00	-18.97	40.68	-20.66	640.38
L15D-16D	2.50	ELS3	3574.03	-198.71	-18.97	40.68	-11.17	740.81
L15I-16I	0.00	ELU5	4599.28	-210.79	138.17	-291.21	226.07	383.73
L15I-16I	0.50	ELU5	4599.29	-206.51	138.17	-291.21	156.99	488.05
L15I-16I	1.00	ELU5	4599.29	-202.22	138.17	-291.21	87.90	590.23
L15I-16I	1.50	ELU5	4599.29	-197.93	138.17	-291.21	18.82	690.27
L15I-16I	2.00	ELU5	4599.30	-193.65	138.17	-291.21	-50.27	788.16
L15I-16I	2.50	ELU5	4599.30	-189.36	138.17	-291.21	-119.35	883.92
L15I-16I	0.00	ELS3	3563.26	-218.80	20.94	-44.11	59.47	216.59
L15I-16I	0.50	ELS3	3563.27	-214.52	20.94	-44.11	49.01	324.92
L15I-16I	1.00	ELS3	3563.27	-210.23	20.94	-44.11	38.54	431.10
L15I-16I	1.50	ELS3	3563.27	-205.95	20.94	-44.11	28.07	535.15
L15I-16I	2.00	ELS3	3563.28	-201.66	20.94	-44.11	17.60	637.05



L15I-16I	2.50	ELS3	3563.28	-197.37	20.94	-44.11	7.13	736.81
L16D-17D	0.00	ELU5	4806.67	287.57	-131.52	209.10	-139.03	933.12
L16D-17D	0.50	ELU5	4806.66	291.85	-131.52	209.10	-73.27	788.27
L16D-17D	1.00	ELU5	4806.65	296.14	-131.52	209.10	-7.51	641.27
L16D-17D	1.50	ELU5	4806.64	300.43	-131.52	209.10	58.25	492.13
L16D-17D	2.00	ELU5	4806.63	304.71	-131.52	209.10	124.01	340.84
L16D-17D	2.50	ELU5	4806.63	309.00	-131.52	209.10	189.77	187.41
L16D-17D	0.00	ELS3	3732.53	178.82	-32.72	-13.34	-32.92	692.07
L16D-17D	0.50	ELS3	3732.52	183.11	-32.72	-13.34	-16.56	601.59
L16D-17D	1.00	ELS3	3732.51	187.39	-32.72	-13.34	-0.20	508.96
L16D-17D	1.50	ELS3	3732.50	191.68	-32.72	-13.34	16.15	414.20
L16D-17D	2.00	ELS3	3732.49	195.97	-32.72	-13.34	32.51	317.28
L16D-17D	2.50	ELS3	3732.48	200.25	-32.72	-13.34	48.87	218.23
L16I-17I	0.00	ELU5	4531.30	251.20	138.39	-212.33	159.17	873.13
L16I-17I	0.50	ELU5	4531.29	255.49	138.39	-212.33	89.98	746.46
L16I-17I	1.00	ELU5	4531.28	259.77	138.39	-212.33	20.79	617.65
L16I-17I	1.50	ELU5	4531.27	264.06	138.39	-212.33	-48.41	486.69
L16I-17I	2.00	ELU5	4531.26	268.34	138.39	-212.33	-117.60	353.59
L16I-17I	2.50	ELU5	4531.26	272.63	138.39	-212.33	-186.79	218.35
L16I-17I	0.00	ELS3	3719.42	178.01	33.61	10.00	36.48	689.13
L16I-17I	0.50	ELS3	3719.42	182.29	33.61	10.00	19.67	599.05
L16I-17I	1.00	ELS3	3719.41	186.58	33.61	10.00	2.87	506.83
L16I-17I	1.50	ELS3	3719.40	190.87	33.61	10.00	-13.94	412.47
L16I-17I	2.00	ELS3	3719.39	195.15	33.61	10.00	-30.74	315.97
L16I-17I	2.50	ELS3	3719.38	199.44	33.61	10.00	-47.55	217.32
L17D-18D	0.00	ELU5	5687.94	-709.70	-68.25	265.16	-74.97	-410.61
L17D-18D	0.50	ELU5	5687.91	-705.42	-68.25	265.16	-40.84	-56.83
L17D-18D	1.00	ELU5	5687.88	-701.13	-68.25	265.16	-6.72	294.81
L17D-18D	1.50	ELU5	5687.85	-696.84	-68.25	265.16	27.41	644.30
L17D-18D	2.00	ELU5	5687.82	-692.56	-68.25	265.16	61.54	991.66
L17D-18D	2.50	ELU5	5687.80	-688.27	-68.25	265.16	95.66	1336.86
L17D-18D	0.00	ELS3	4620.47	-578.92	-14.68	109.93	-17.74	-291.25
L17D-18D	0.50	ELS3	4620.45	-574.63	-14.68	109.93	-10.40	-2.86
L17D-18D	1.00	ELS3	4620.42	-570.35	-14.68	109.93	-3.06	283.39
L17D-18D	1.50	ELS3	4620.39	-566.06	-14.68	109.93	4.28	567.49
L17D-18D	2.00	ELS3	4620.36	-561.77	-14.68	109.93	11.62	849.44
L17D-18D	2.50	ELS3	4620.33	-557.49	-14.68	109.93	18.96	1129.26
L17I-18I	0.00	ELU5	5345.60	-652.45	88.51	-291.15	98.67	-343.42

L17I-18I	0.50	ELU5	5345.57	-648.17	88.51	-291.15	54.41	-18.27
L17I-18I	1.00	ELU5	5345.54	-643.88	88.51	-291.15	10.16	304.75
L17I-18I	1.50	ELU5	5345.52	-639.59	88.51	-291.15	-34.10	625.61
L17I-18I	2.00	ELU5	5345.49	-635.31	88.51	-291.15	-78.36	944.34
L17I-18I	2.50	ELU5	5345.46	-631.02	88.51	-291.15	-122.61	1260.92
L17I-18I	0.00	ELS3	4607.41	-577.25	18.27	-114.58	18.29	-290.78
L17I-18I	0.50	ELS3	4607.39	-572.96	18.27	-114.58	9.15	-3.23
L17I-18I	1.00	ELS3	4607.36	-568.68	18.27	-114.58	0.02	282.18
L17I-18I	1.50	ELS3	4607.33	-564.39	18.27	-114.58	-9.11	565.45
L17I-18I	2.00	ELS3	4607.30	-560.10	18.27	-114.58	-18.25	846.57
L17I-18I	2.50	ELS3	4607.27	-555.82	18.27	-114.58	-27.38	1125.55
L18D-19D	0.00	ELU5	7408.84	-246.22	-81.20	157.42	-112.46	857.93
L18D-19D	0.50	ELU5	7408.81	-241.93	-81.20	157.42	-71.86	979.96
L18D-19D	1.00	ELU5	7408.78	-237.64	-81.20	157.42	-31.26	1099.86
L18D-19D	1.50	ELU5	7408.75	-233.36	-81.20	157.42	9.34	1217.61
L18D-19D	2.00	ELU5	7408.72	-229.07	-81.20	157.42	49.94	1333.22
L18D-19D	2.50	ELU5	7408.69	-224.79	-81.20	157.42	90.54	1446.68
L18D-19D	0.00	ELS3	6043.12	-199.12	-43.48	70.87	-63.35	733.37
L18D-19D	0.50	ELS3	6043.09	-194.83	-43.48	70.87	-41.61	831.85
L18D-19D	1.00	ELS3	6043.06	-190.54	-43.48	70.87	-19.87	928.20
L18D-19D	1.50	ELS3	6043.04	-186.26	-43.48	70.87	1.87	1022.40
L18D-19D	2.00	ELS3	6043.01	-181.97	-43.48	70.87	23.61	1114.45
L18D-19D	2.50	ELS3	6042.98	-177.68	-43.48	70.87	45.35	1204.37
L18I-19I	0.00	ELU5	6872.86	-219.84	103.41	-205.53	145.18	822.29
L18I-19I	0.50	ELU5	6872.83	-215.55	103.41	-205.53	93.48	931.14
L18I-19I	1.00	ELU5	6872.80	-211.26	103.41	-205.53	41.77	1037.84
L18I-19I	1.50	ELU5	6872.77	-206.98	103.41	-205.53	-9.93	1142.40
L18I-19I	2.00	ELU5	6872.74	-202.69	103.41	-205.53	-61.63	1244.82
L18I-19I	2.50	ELU5	6872.71	-198.40	103.41	-205.53	-113.34	1345.09
L18I-19I	0.00	ELS3	6029.11	-199.19	43.99	-75.14	70.65	731.34
L18I-19I	0.50	ELS3	6029.08	-194.90	43.99	-75.14	48.65	829.86
L18I-19I	1.00	ELS3	6029.05	-190.61	43.99	-75.14	26.66	926.24
L18I-19I	1.50	ELS3	6029.02	-186.33	43.99	-75.14	4.66	1020.47
L18I-19I	2.00	ELS3	6028.99	-182.04	43.99	-75.14	-17.33	1112.56
L18I-19I	2.50	ELS3	6028.96	-177.75	43.99	-75.14	-39.33	1202.51
L19D-20D	0.00	ELU5	7271.27	238.76	-55.80	82.95	-66.63	1459.45
L19D-20D	1.25	ELU5	7271.15	249.47	-55.80	82.95	3.13	1154.30
L19D-20D	2.50	ELU5	7271.03	260.19	-55.80	82.95	72.88	835.76



L19D-20D	0.00	ELS3	5910.90	199.43	-32.36	35.50	-40.75	1221.59
L19D-20D	1.25	ELS3	5910.78	210.14	-32.36	35.50	-0.30	965.61
L19D-20D	2.50	ELS3	5910.66	220.86	-32.36	35.50	40.15	696.23
L19I-20I	0.00	ELU5	6664.30	233.65	93.80	-157.96	105.17	1374.06
L19I-20I	1.25	ELU5	6664.18	244.36	93.80	-157.96	-12.08	1075.30
L19I-20I	2.50	ELU5	6664.06	255.08	93.80	-157.96	-129.33	763.15
L19I-20I	0.00	ELS3	5907.90	198.00	40.69	-44.51	38.98	1218.80
L19I-20I	1.25	ELS3	5907.78	208.72	40.69	-44.51	-11.88	964.60
L19I-20I	2.50	ELS3	5907.66	219.43	40.69	-44.51	-62.75	697.01
L20D-21D	0.00	ELU5	6010.28	275.38	-58.17	98.37	-51.02	1119.23
L20D-21D	1.25	ELU5	6010.16	286.10	-58.17	98.37	21.69	768.30
L20D-21D	2.50	ELU5	6010.04	296.81	-58.17	98.37	94.40	403.99
L20D-21D	0.00	ELS3	4857.45	224.13	-38.85	55.10	-21.94	930.78
L20D-21D	1.25	ELS3	4857.33	234.84	-38.85	55.10	26.62	643.92
L20D-21D	2.50	ELS3	4857.21	245.56	-38.85	55.10	75.18	343.67
L20I-21I	0.00	ELU5	5412.57	269.14	91.29	-182.75	111.28	1048.13
L20I-21I	1.25	ELU5	5412.45	279.85	91.29	-182.75	-2.84	705.01
L20I-21I	2.50	ELU5	5412.33	290.57	91.29	-182.75	-116.95	348.50
L20I-21I	0.00	ELS3	4873.83	221.86	38.35	-65.64	43.03	930.17
L20I-21I	1.25	ELS3	4873.71	232.58	38.35	-65.64	-4.91	646.14
L20I-21I	2.50	ELS3	4873.59	243.29	38.35	-65.64	-52.85	348.73
L21D-22D	0.00	ELU5	3491.51	784.73	-68.64	150.98	-106.56	1134.35
L21D-22D	1.25	ELU5	3491.35	795.44	-68.64	150.98	-20.75	146.74
L21D-22D	2.50	ELU5	3491.20	806.16	-68.64	150.98	65.06	-854.26
L21D-22D	0.00	ELS3	2775.13	642.92	-36.05	82.36	-69.74	951.43
L21D-22D	1.25	ELS3	2774.97	653.63	-36.05	82.36	-24.67	141.09
L21D-22D	2.50	ELS3	2774.81	664.35	-36.05	82.36	20.39	-682.65
L21I-22I	0.00	ELU5	2991.57	744.45	126.22	-249.11	135.67	1061.44
L21I-22I	1.25	ELU5	2991.41	755.16	126.22	-249.11	-22.11	124.19
L21I-22I	2.50	ELU5	2991.25	765.88	126.22	-249.11	-179.89	-826.46

L21I-22I	0.00	ELS3	2815.87	640.67	64.66	-114.16	60.88	955.01
L21I-22I	1.25	ELS3	2815.72	651.38	64.66	-114.16	-19.95	147.48
L21I-22I	2.50	ELS3	2815.56	662.10	64.66	-114.16	-100.77	-673.45
L22D-23D	0.00	ELU5	-749.40	1313.33	-163.04	319.78	-159.38	527.39
L22D-23D	1.25	ELU5	-749.59	1324.05	-163.04	319.78	44.43	-1120.97
L22D-23D	2.50	ELU5	-749.79	1334.76	-163.04	319.78	248.23	-2782.73
L22D-23D	0.00	ELS3	-732.43	1075.93	-117.94	190.38	-66.08	461.52
L22D-23D	1.25	ELS3	-732.63	1086.64	-117.94	190.38	81.34	-890.08
L22D-23D	2.50	ELS3	-732.83	1097.36	-117.94	190.38	228.76	-2255.08
L22I-23I	0.00	ELU5	-1023.07	1236.72	144.00	-395.89	259.67	494.37
L22I-23I	1.25	ELU5	-1023.26	1247.44	144.00	-395.89	79.66	-1058.23
L22I-23I	2.50	ELU5	-1023.46	1258.15	144.00	-395.89	-100.34	-2624.22
L22I-23I	0.00	ELS3	-667.01	1075.11	81.00	-227.16	156.43	467.26
L22I-23I	1.25	ELS3	-667.21	1085.82	81.00	-227.16	55.18	-883.33
L22I-23I	2.50	ELS3	-667.40	1096.54	81.00	-227.16	-46.07	-2247.30
L23D-24D	0.00	ELU5	-5087.00	1989.80	-385.13	828.10	-177.85	-2201.29
L23D-24D	1.25	ELU5	-5087.24	2000.51	-385.13	828.10	303.56	-4695.24
L23D-24D	2.50	ELU5	-5087.48	2011.23	-385.13	828.10	784.97	-7202.57
L23D-24D	0.00	ELS3	-4365.92	1625.82	-123.28	546.99	-129.90	-1734.21
L23D-24D	1.25	ELS3	-4366.16	1636.53	-123.28	546.99	24.20	-3773.18
L23D-24D	2.50	ELS3	-4366.40	1647.24	-123.28	546.99	178.30	-5825.53
L23I-24I	0.00	ELU5	-5200.50	1863.75	800.13	-819.84	71.71	-2011.06
L23I-24I	1.25	ELU5	-5200.74	1874.47	800.13	-819.84	-928.45	-4347.44
L23I-24I	2.50	ELU5	-5200.98	1885.18	800.13	-819.84	-1928.61	-6697.22
L23I-24I	0.00	ELS3	-4303.04	1628.66	595.04	-571.23	-7.59	-1727.04
L23I-24I	1.25	ELS3	-4303.28	1639.38	595.04	-571.23	-751.39	-3769.56
L23I-24I	2.50	ELS3	-4303.52	1650.09	595.04	-571.23	-1495.19	-5825.48

## II.22. Esfuerzos en la losa

TABLE: Element Forces - Area Shells									
Area	OutputCase	F11	F22	F12	M11	M22	M12	V13	V23
Text	Text	KN/m	KN/m	KN/m	KN-m/m	KN-m/m	KN-m/m	KN/m	KN/m
S1.1D	ELU5	-984.32	-190.98	-2168.14	-73.34	-7.44	-49.54	58.04	-29.74
S1.1D	ELU5	11631.10	2329.11	-573.77	-203.84	-76.82	-58.96	58.04	-29.74

S1.1D	ELU5	12411.23	6229.74	-4005.27	-355.22	-86.47	62.87	58.04	-29.74
S1.1D	ELU5	-204.20	3709.65	-5599.65	-212.08	-29.31	72.29	58.04	-29.74
S1.1D	ELS3	-878.48	-155.40	-1789.85	-60.35	-2.85	-41.51	46.71	-28.78
S1.1D	ELS3	9761.73	1970.69	-752.68	-167.06	-67.95	-48.27	46.71	-28.78
S1.1D	ELS3	10428.47	5304.38	-3358.70	-289.09	-77.92	49.61	46.71	-28.78



<b>S1.1D</b>	ELS3	-211.74	3178.29	-4395.87	-171.83	-20.59	56.36	46.71	-28.78	<b>S1.3I</b>	ELS3	45.52	95.49	650.22	-76.38	-6.78	-27.75	31.54	-3.16
<b>S1.1I</b>	ELU5	-341.13	3798.14	4896.62	-211.79	-36.05	-69.43	57.80	27.25	<b>S1.3I</b>	ELS3	126.06	498.21	216.75	3.89	11.91	5.18	31.54	-3.16
<b>S1.1I</b>	ELU5	12435.66	6351.91	4053.05	-354.68	-88.34	-61.96	57.80	27.25	<b>S1.3I</b>	ELS3	173.21	508.10	461.35	34.67	6.61	8.25	31.54	-3.16
<b>S1.1I</b>	ELU5	11654.75	2447.38	1273.86	-204.00	-75.64	60.74	57.80	27.25	<b>S1.4D</b>	ELU5	-151.99	170.94	-869.29	49.79	1.99	-1.79	36.10	14.46
<b>S1.1I</b>	ELU5	-1122.04	-106.39	2117.43	-73.60	-11.98	53.26	57.80	27.25	<b>S1.4D</b>	ELU5	180.61	237.99	-1154.09	45.81	31.55	4.36	36.10	14.46
<b>S1.1I</b>	ELS3	-213.58	3220.49	4377.67	-172.42	-24.70	-57.10	47.19	25.88	<b>S1.4D</b>	ELU5	29.97	-515.19	-540.80	-45.57	6.05	15.44	36.10	14.46
<b>S1.1I</b>	ELS3	10437.36	5348.80	3382.89	-289.13	-75.55	-50.67	47.19	25.88	<b>S1.4D</b>	ELU5	-302.62	-582.24	-256.00	-39.33	-25.93	9.29	36.10	14.46
<b>S1.1I</b>	ELS3	9765.05	1987.29	801.76	-165.97	-65.20	47.93	47.19	25.88	<b>S1.4D</b>	ELS3	-119.98	174.05	-696.17	40.61	2.42	-1.18	29.24	10.09
<b>S1.1I</b>	ELS3	-885.89	-141.03	1796.54	-59.69	-5.95	41.49	47.19	25.88	<b>S1.4D</b>	ELS3	122.66	222.98	-908.83	35.95	22.72	4.29	29.24	10.09
<b>S1.2D</b>	ELU5	268.99	1384.09	-1028.41	10.84	8.98	-31.56	45.99	-13.72	<b>S1.4D</b>	ELS3	8.24	-349.11	-465.26	-37.96	1.56	13.89	29.24	10.09
<b>S1.2D</b>	ELU5	-707.88	1191.25	-2379.89	-86.04	-22.93	-35.46	45.99	-13.72	<b>S1.4D</b>	ELS3	-234.40	-398.04	-252.60	-31.68	-21.06	8.43	29.24	10.09
<b>S1.2D</b>	ELU5	-792.99	765.69	-958.88	-204.16	-37.74	56.98	45.99	-13.72	<b>S1.4I</b>	ELU5	-254.64	-607.32	223.34	-34.85	-17.71	-6.50	32.61	-8.93
<b>S1.2D</b>	ELU5	183.88	958.53	392.60	-100.92	-11.25	60.88	45.99	-13.72	<b>S1.4I</b>	ELU5	-51.01	-565.95	566.90	-43.17	2.16	-10.90	32.61	-8.93
<b>S1.2D</b>	ELS3	272.02	1239.36	-821.15	4.75	4.05	-25.23	35.23	-10.55	<b>S1.4I</b>	ELU5	112.16	249.89	1019.00	39.57	23.79	-0.14	32.61	-8.93
<b>S1.2D</b>	ELS3	-635.43	1059.84	-1868.86	-73.39	-20.54	-30.41	35.23	-10.55	<b>S1.4I</b>	ELU5	-91.47	208.52	675.44	45.51	5.69	4.26	32.61	-8.93
<b>S1.2D</b>	ELS3	-746.58	504.10	-789.66	-163.95	-28.71	44.32	35.23	-10.55	<b>S1.4I</b>	ELS3	-234.86	-414.49	235.07	-31.36	-19.52	-7.73	29.11	-8.97
<b>S1.2D</b>	ELS3	160.87	683.62	258.04	-80.77	-8.43	49.50	35.23	-10.55	<b>S1.4I</b>	ELS3	-1.91	-367.47	463.48	-37.85	0.60	-12.79	29.11	-8.97
<b>S1.2I</b>	ELU5	314.88	1132.03	-203.39	-99.03	-14.24	-55.96	45.01	14.75	<b>S1.4I</b>	ELS3	119.42	239.18	902.25	35.79	21.24	-3.48	29.11	-8.97
<b>S1.2I</b>	ELU5	-923.45	886.57	972.44	-202.68	-43.35	-53.69	45.01	14.75	<b>S1.4I</b>	ELS3	-113.53	192.16	673.84	40.59	3.21	1.58	29.11	-8.97
<b>S1.2I</b>	ELU5	-854.69	1230.37	2073.71	-87.04	-26.29	38.73	45.01	14.75	<b>S1.5D</b>	ELU5	-80.45	369.65	547.29	51.75	10.88	4.43	32.38	-4.74
<b>S1.2I</b>	ELU5	383.64	1475.83	897.89	10.26	7.36	36.46	45.01	14.75	<b>S1.5D</b>	ELU5	-113.85	362.64	309.90	47.28	0.88	2.17	32.38	-4.74
<b>S1.2I</b>	ELS3	184.86	792.20	-247.51	-81.27	-10.21	-48.86	36.16	10.88	<b>S1.5D</b>	ELU5	-313.84	-637.22	408.10	-34.29	-12.09	5.07	32.38	-4.74
<b>S1.2I</b>	ELS3	-735.67	610.06	799.71	-164.68	-31.24	-44.72	36.16	10.88	<b>S1.5D</b>	ELU5	-280.29	-630.18	645.24	-28.66	-1.97	7.42	32.38	-4.74
<b>S1.2I</b>	ELS3	-642.69	1074.96	1861.40	-71.76	-21.10	30.07	36.16	10.88	<b>S1.5D</b>	ELS3	-68.75	330.38	462.65	42.90	8.65	3.99	26.66	-4.26
<b>S1.2I</b>	ELS3	277.84	1257.10	814.19	6.55	4.16	25.92	36.16	10.88	<b>S1.5D</b>	ELS3	-89.79	325.87	243.64	38.74	-0.35	2.18	26.66	-4.26
<b>S1.3D</b>	ELU5	238.44	527.16	-531.23	44.72	11.27	-10.21	39.85	4.06	<b>S1.5D</b>	ELS3	-253.18	-490.95	329.54	-28.40	-11.09	4.87	26.66	-4.26
<b>S1.3D</b>	ELU5	91.61	497.19	-209.85	7.12	18.32	-5.78	39.85	4.06	<b>S1.5D</b>	ELS3	-232.01	-486.41	548.35	-23.31	-2.01	6.76	26.66	-4.26
<b>S1.3D</b>	ELU5	1.37	45.98	-834.37	-94.34	-6.26	34.64	39.85	4.06	<b>S1.5I</b>	ELU5	-253.63	-575.28	-533.44	-25.11	-0.88	-4.73	28.72	4.93
<b>S1.3D</b>	ELU5	148.20	75.95	-1155.75	-53.04	-16.49	30.21	39.85	4.06	<b>S1.5I</b>	ELU5	-248.23	-574.35	-419.32	-30.82	-11.38	-2.46	28.72	4.93
<b>S1.3D</b>	ELS3	175.10	485.18	-461.29	33.75	5.62	-7.58	31.08	4.51	<b>S1.5I</b>	ELU5	-66.09	336.08	-323.32	41.54	-0.13	0.49	28.72	4.93
<b>S1.3D</b>	ELS3	118.84	473.46	-214.09	2.89	13.64	-4.80	31.08	4.51	<b>S1.5I</b>	ELU5	-71.65	335.13	-437.67	46.19	10.28	-1.69	28.72	4.93
<b>S1.3D</b>	ELS3	35.09	54.72	-666.16	-76.16	-4.24	28.71	31.08	4.51	<b>S1.5I</b>	ELS3	-230.61	-486.19	-533.79	-23.04	-1.86	-6.24	26.34	4.28
<b>S1.3D</b>	ELS3	91.35	66.44	-913.35	-42.57	-15.42	25.93	31.08	4.51	<b>S1.5I</b>	ELS3	-250.23	-490.39	-339.13	-28.09	-10.98	-4.30	26.34	4.28
<b>S1.3I</b>	ELU5	85.92	118.70	959.87	-50.62	-13.73	-24.90	37.57	-0.42	<b>S1.5I</b>	ELS3	-87.05	325.36	-253.93	38.26	-0.48	-1.65	26.34	4.28
<b>S1.3I</b>	ELU5	113.21	123.65	688.41	-91.63	-11.72	-28.81	37.57	-0.42	<b>S1.5I</b>	ELS3	-67.56	329.53	-448.80	42.39	8.56	-3.52	26.34	4.28
<b>S1.3I</b>	ELU5	206.80	591.64	295.54	4.18	11.46	9.77	37.57	-0.42	<b>S1.6D</b>	ELU5	-295.39	-89.95	114.92	-18.41	1.14	8.19	30.80	-9.47
<b>S1.3I</b>	ELU5	179.52	586.69	566.99	41.42	11.69	13.67	37.57	-0.42	<b>S1.6D</b>	ELU5	-262.69	73.53	126.95	58.47	18.11	0.96	30.80	-9.47
<b>S1.3I</b>	ELS3	92.67	105.38	894.83	-42.76	-14.91	-24.68	31.54	-3.16	<b>S1.6D</b>	ELU5	-134.72	99.37	299.54	47.14	-1.82	2.21	30.80	-9.47





<b>S1.6D</b>	ELU5	-167.43	-64.12	287.46	-30.05	-19.26	9.53	30.80	-9.47	<b>S2.2I</b>	ELU5	2933.15	1986.81	1490.54	-14.39	-4.26	37.15	24.88	-3.69
<b>S1.6D</b>	ELS3	-244.06	-57.65	94.71	-14.64	1.95	7.13	25.41	-9.32	<b>S2.2I</b>	ELU5	2595.17	296.93	1517.65	48.24	8.76	7.36	24.88	-3.69
<b>S1.6D</b>	ELS3	-218.78	68.66	104.31	48.80	16.11	1.17	25.41	-9.32	<b>S2.2I</b>	ELU5	44.76	-212.53	1853.95	15.89	0.19	7.29	24.88	-3.69
<b>S1.6D</b>	ELS3	-117.16	89.19	252.23	38.81	-3.53	2.31	25.41	-9.32	<b>S2.2I</b>	ELS3	335.53	1270.12	1626.51	-37.76	-9.85	27.48	20.49	-2.84
<b>S1.6D</b>	ELS3	-142.45	-37.12	242.60	-24.88	-18.10	8.35	25.41	-9.32	<b>S2.2I</b>	ELS3	2437.38	1689.82	1265.61	-13.10	-4.22	27.71	20.49	-2.84
<b>S1.6I</b>	ELU5	-154.76	-79.52	-249.28	-26.64	-17.96	-6.94	27.26	10.13	<b>S2.2I</b>	ELS3	2151.40	259.93	1200.07	38.47	6.09	4.47	20.49	-2.84
<b>S1.6I</b>	ELU5	-121.55	86.37	-259.07	41.69	-2.79	0.63	27.26	10.13	<b>S2.2I</b>	ELS3	49.55	-159.78	1560.97	13.24	-0.37	4.24	20.49	-2.84
<b>S1.6I</b>	ELU5	-232.35	64.01	-120.97	53.56	18.57	1.54	27.26	10.13	<b>S2.3D</b>	ELU5	-55.72	329.13	-1210.30	26.95	-7.36	-18.02	22.03	9.88
<b>S1.6I</b>	ELU5	-265.54	-101.87	-111.22	-14.47	3.84	-5.95	27.26	10.13	<b>S2.3D</b>	ELU5	224.27	386.09	-1729.64	17.44	13.50	-25.79	22.03	9.88
<b>S1.6I</b>	ELS3	-141.39	-38.63	-238.30	-24.60	-17.95	-7.85	25.09	9.34	<b>S2.3D</b>	ELU5	253.34	531.43	-1234.92	-38.34	13.63	-11.63	22.03	9.88
<b>S1.6I</b>	ELS3	-115.86	88.88	-247.54	38.28	-3.65	-1.82	25.09	9.34	<b>S2.3D</b>	ELU5	-26.65	474.47	-715.57	-27.42	-7.56	-3.86	22.03	9.88
<b>S1.6I</b>	ELS3	-216.29	68.60	-104.81	48.28	16.04	-0.75	25.09	9.34	<b>S2.3D</b>	ELS3	-11.01	350.91	-969.26	20.64	-8.42	-14.87	17.45	7.75
<b>S1.6I</b>	ELS3	-241.80	-58.91	-95.61	-14.36	2.15	-6.70	25.09	9.34	<b>S2.3D</b>	ELS3	152.44	384.36	-1377.97	12.01	7.78	-21.63	17.45	7.75
<b>S2.1D</b>	ELU5	2330.60	-751.43	-818.58	55.15	31.17	23.29	27.87	-0.89	<b>S2.3D</b>	ELS3	172.72	485.74	-1025.86	-32.17	8.90	-9.36	17.45	7.75
<b>S2.1D</b>	ELU5	3191.58	-579.93	-442.00	138.96	35.47	43.43	27.87	-0.89	<b>S2.3D</b>	ELS3	9.26	452.29	-617.14	-22.41	-7.88	-2.60	17.45	7.75
<b>S2.1D</b>	ELU5	3446.12	692.73	-912.57	72.49	-13.00	-42.37	27.87	-0.89	<b>S2.3I</b>	ELU5	66.75	564.55	799.33	-27.46	-8.18	7.57	20.59	-8.17
<b>S2.1D</b>	ELU5	2585.13	521.23	-1289.16	-18.07	-4.94	-62.50	27.87	-0.89	<b>S2.3I</b>	ELU5	205.90	593.17	1224.31	-38.31	9.05	15.40	20.59	-8.17
<b>S2.1D</b>	ELS3	1970.26	-580.49	-729.80	43.69	24.07	18.08	22.63	-1.34	<b>S2.3I</b>	ELU5	172.27	425.03	1558.41	13.91	8.42	28.75	20.59	-8.17
<b>S2.1D</b>	ELS3	2699.31	-435.53	-268.93	111.44	26.66	34.09	22.63	-1.34	<b>S2.3I</b>	ELU5	33.12	396.42	1133.43	23.28	-9.09	20.92	20.59	-8.17
<b>S2.1D</b>	ELS3	2906.33	599.54	-725.01	57.39	-12.64	-35.47	22.63	-1.34	<b>S2.3I</b>	ELS3	16.58	477.07	626.38	-22.34	-7.74	3.21	17.57	-7.14
<b>S2.1D</b>	ELS3	2177.28	454.59	-1185.88	-15.71	-4.35	-51.48	22.63	-1.34	<b>S2.3I</b>	ELS3	183.76	511.25	1028.91	-32.02	7.67	9.81	17.57	-7.14
<b>S2.1I</b>	ELU5	2665.79	650.05	1534.41	-18.39	-10.48	65.68	27.78	-2.87	<b>S2.3I</b>	ELS3	160.60	395.44	1374.22	12.47	6.92	21.73	17.57	-7.14
<b>S2.1I</b>	ELU5	3469.45	809.42	801.96	73.03	-10.69	44.76	27.78	-2.87	<b>S2.3I</b>	ELS3	-6.58	361.26	971.69	20.98	-8.07	15.13	17.57	-7.14
<b>S2.1I</b>	ELU5	3185.00	-612.84	177.85	139.32	39.00	-40.36	27.78	-2.87	<b>S2.4D</b>	ELU5	-10.25	441.12	-693.28	41.32	-12.14	-11.54	20.20	14.52
<b>S2.1I</b>	ELU5	2381.34	-772.21	910.30	54.56	26.56	-19.43	27.78	-2.87	<b>S2.4D</b>	ELU5	-34.08	437.30	-1204.55	30.47	18.52	-19.47	20.20	14.52
<b>S2.1I</b>	ELS3	2194.19	473.84	1200.93	-15.84	-6.55	51.35	22.81	-0.33	<b>S2.4D</b>	ELU5	-84.49	185.28	-1338.31	-20.28	19.86	-2.50	20.20	14.52
<b>S2.1I</b>	ELS3	2909.63	616.04	720.11	57.48	-11.14	35.22	22.81	-0.33	<b>S2.4D</b>	ELU5	-60.65	189.10	-827.04	-8.90	-11.28	5.43	20.20	14.52
<b>S2.1I</b>	ELS3	2699.53	-434.44	251.33	111.96	28.26	-33.86	22.81	-0.33	<b>S2.4D</b>	ELS3	-22.01	396.74	-589.98	34.15	-8.05	-9.41	16.32	9.07
<b>S2.1I</b>	ELS3	1984.09	-576.64	732.16	43.99	22.29	-17.73	22.81	-0.33	<b>S2.4D</b>	ELS3	-0.85	401.74	-1000.78	23.57	10.89	-15.97	16.32	9.07
<b>S2.2D</b>	ELU5	89.30	-288.78	-1876.29	18.32	3.99	-4.59	25.64	2.94	<b>S2.4D</b>	ELS3	-43.18	190.08	-1064.63	-17.44	12.35	-1.58	16.32	9.07
<b>S2.2D</b>	ELU5	2520.16	196.37	-1323.27	48.98	10.74	-4.49	25.64	2.94	<b>S2.4D</b>	ELS3	-64.35	185.09	-653.84	-6.41	-7.29	4.98	16.32	9.07
<b>S2.2D</b>	ELU5	2861.58	1903.46	-1500.68	-15.54	-2.67	-32.95	25.64	2.94	<b>S2.4I</b>	ELU5	-21.00	222.49	617.49	-8.09	-7.77	-2.37	18.08	-10.44
<b>S2.2D</b>	ELU5	430.72	1418.31	-2053.70	-45.53	-8.45	-33.05	25.64	2.94	<b>S2.4I</b>	ELU5	-0.62	227.74	1251.25	-20.50	14.52	6.16	18.08	-10.44
<b>S2.2D</b>	ELS3	41.30	-171.38	-1558.00	12.43	-0.31	-3.96	20.20	2.97	<b>S2.4I</b>	ELU5	48.66	474.11	1288.57	24.97	11.43	22.42	18.08	-10.44
<b>S2.2D</b>	ELS3	2135.72	246.82	-1189.58	37.72	6.42	-4.34	20.20	2.97	<b>S2.4I</b>	ELU5	28.27	468.86	654.81	36.80	-10.71	13.88	18.08	-10.44
<b>S2.2D</b>	ELS3	2420.32	1669.82	-1264.66	-13.12	-3.54	-27.60	20.20	2.97	<b>S2.4I</b>	ELS3	-58.83	203.01	635.45	-6.42	-7.00	-4.37	16.21	-8.52
<b>S2.2D</b>	ELS3	325.90	1251.62	-1633.09	-37.87	-9.43	-27.22	20.20	2.97	<b>S2.4I</b>	ELS3	-37.21	208.14	1067.22	-17.33	11.42	2.19	16.21	-8.52
<b>S2.2I</b>	ELU5	382.73	1477.35	1826.84	-46.03	-11.40	37.08	24.88	-3.69	<b>S2.4I</b>	ELS3	4.30	415.69	1014.29	23.41	9.98	16.23	16.21	-8.52





<b>S2.4I</b>	ELS3	-17.32	410.57	582.53	33.85	-7.87	9.67	16.21	-8.52	<b>S3.1D</b>	ELS3	1256.20	-592.41	-591.32	66.29	24.97	-19.92	9.52	-8.28
<b>S2.5D</b>	ELU5	-477.46	213.66	193.74	57.79	10.36	-10.09	20.13	-3.25	<b>S3.1D</b>	ELS3	1272.05	-589.94	-169.28	17.83	4.43	-22.48	9.52	-8.28
<b>S2.5D</b>	ELU5	-38.21	301.30	48.46	43.41	3.23	-9.57	20.13	-3.25	<b>S3.1D</b>	ELS3	1244.73	-726.54	-247.10	-8.03	6.17	23.65	9.52	-8.28
<b>S2.5D</b>	ELU5	-22.30	380.84	317.04	-7.34	-7.34	3.52	20.13	-3.25	<b>S3.1I</b>	ELU5	1470.50	-955.54	322.71	-9.19	12.35	-26.95	11.84	6.83
<b>S2.5D</b>	ELU5	-461.55	293.19	462.32	7.82	-0.63	3.00	20.13	-3.25	<b>S3.1I</b>	ELU5	1512.51	-745.52	259.05	22.89	10.24	28.77	11.84	6.83
<b>S2.5D</b>	ELS3	-389.47	199.35	155.48	47.59	8.22	-8.06	16.42	-3.11	<b>S3.1I</b>	ELU5	1503.03	-746.75	664.94	80.08	28.45	25.66	11.84	6.83
<b>S2.5D</b>	ELS3	-47.86	267.50	27.50	35.44	1.43	-7.65	16.42	-3.11	<b>S3.1I</b>	ELU5	1461.03	-956.77	728.60	53.07	23.21	-30.05	11.84	6.83
<b>S2.5D</b>	ELS3	-33.97	336.96	256.80	-5.95	-7.15	3.26	16.42	-3.11	<b>S3.1I</b>	ELS3	1244.95	-725.42	246.54	-7.88	7.30	-23.35	9.58	7.05
<b>S2.5D</b>	ELS3	-375.58	268.81	384.79	6.84	-0.72	2.85	16.42	-3.11	<b>S3.1I</b>	ELS3	1273.53	-582.52	172.56	18.12	5.48	22.63	9.58	7.05
<b>S2.5I</b>	ELU5	-395.27	270.19	-355.10	8.40	0.24	-0.31	17.81	3.66	<b>S3.1I</b>	ELS3	1263.47	-583.85	585.26	65.92	23.45	20.03	9.58	7.05
<b>S2.5I</b>	ELU5	4.53	350.15	-350.02	-6.88	-7.35	-0.81	17.81	3.66	<b>S3.1I</b>	ELS3	1234.89	-726.75	659.24	44.10	19.33	-25.94	9.58	7.05
<b>S2.5I</b>	ELU5	-9.13	281.83	-95.88	38.04	2.05	12.26	17.81	3.66	<b>S3.2D</b>	ELU5	699.11	-1037.00	-915.34	77.75	29.13	-5.82	12.37	3.56
<b>S2.5I</b>	ELU5	-408.94	201.88	-100.97	52.59	10.03	12.76	17.81	3.66	<b>S3.2D</b>	ELU5	1483.48	-879.98	-1004.29	83.00	38.13	6.17	12.37	3.56
<b>S2.5I</b>	ELS3	-371.02	268.64	-372.39	6.75	-0.73	-2.35	16.20	3.11	<b>S3.2D</b>	ELU5	1664.49	25.04	-1372.47	52.95	13.58	1.63	12.37	3.56
<b>S2.5I</b>	ELS3	-32.19	336.25	-263.41	-5.89	-7.16	-2.75	16.20	3.11	<b>S3.2D</b>	ELU5	880.11	-131.98	-1283.53	45.89	7.45	-10.36	12.37	3.56
<b>S2.5I</b>	ELS3	-45.98	267.30	-36.89	34.97	1.30	8.02	16.20	3.11	<b>S3.2D</b>	ELS3	612.47	-778.34	-764.75	61.95	20.05	-5.36	9.55	3.53
<b>S2.5I</b>	ELS3	-384.81	199.69	-145.88	46.97	8.09	8.41	16.20	3.11	<b>S3.2D</b>	ELS3	1244.30	-651.95	-778.41	66.26	28.75	4.23	9.55	3.53
<b>S2.6D</b>	ELU5	-750.54	-24.02	128.12	20.06	8.93	2.21	18.78	-8.08	<b>S3.2D</b>	ELS3	1394.32	98.19	-1128.01	43.09	9.26	0.78	9.55	3.53
<b>S2.6D</b>	ELU5	-725.06	103.36	111.42	66.84	16.42	-6.69	18.78	-8.08	<b>S3.2D</b>	ELS3	762.50	-28.20	-1114.35	37.34	2.91	-8.81	9.55	3.53
<b>S2.6D</b>	ELU5	-490.09	150.48	197.77	54.51	-0.78	-8.02	18.78	-8.08	<b>S3.2I</b>	ELU5	960.00	-30.63	1393.04	43.58	2.90	13.23	11.99	-5.15
<b>S2.6D</b>	ELU5	-515.57	23.10	214.48	7.34	-8.27	0.87	18.78	-8.08	<b>S3.2I</b>	ELU5	1674.83	112.24	1335.35	51.78	12.32	1.10	11.99	-5.15
<b>S2.6D</b>	ELS3	-623.68	-12.30	103.54	17.44	8.60	2.25	15.32	-8.19	<b>S3.2I</b>	ELU5	1483.47	-844.56	866.35	80.89	36.98	-3.92	11.99	-5.15
<b>S2.6D</b>	ELS3	-603.12	90.49	90.45	55.60	14.69	-5.31	15.32	-8.19	<b>S3.2I</b>	ELU5	768.64	-987.43	924.03	74.46	24.47	8.22	11.99	-5.15
<b>S2.6D</b>	ELS3	-403.23	130.56	161.19	44.55	-2.74	-6.41	15.32	-8.19	<b>S3.2I</b>	ELS3	774.80	-15.77	1121.25	36.93	2.54	9.02	9.67	-3.48
<b>S2.6D</b>	ELS3	-423.79	27.77	174.27	6.07	-8.83	1.16	15.32	-8.19	<b>S3.2I</b>	ELS3	1402.18	109.71	1126.48	42.70	8.77	-0.57	9.67	-3.48
<b>S2.6I</b>	ELU5	-444.99	21.58	-176.40	7.72	-8.14	1.77	16.52	8.81	<b>S3.2I</b>	ELS3	1251.56	-643.42	770.53	66.17	28.30	-4.07	9.67	-3.48
<b>S2.6I</b>	ELU5	-422.56	133.75	-160.71	49.24	-1.73	10.72	16.52	8.81	<b>S3.2I</b>	ELS3	624.18	-768.90	765.30	61.82	19.73	5.52	9.67	-3.48
<b>S2.6I</b>	ELU5	-652.71	87.64	-105.99	61.93	17.04	9.44	16.52	8.81	<b>S3.3D</b>	ELU5	75.83	-393.89	-1289.05	51.41	1.94	-2.78	12.66	15.90
<b>S2.6I</b>	ELU5	-675.14	-24.52	-121.67	20.82	10.59	0.49	16.52	8.81	<b>S3.3D</b>	ELU5	858.96	-237.76	-985.21	79.47	37.12	2.76	12.66	15.90
<b>S2.6I</b>	ELS3	-419.12	28.14	-171.03	5.97	-8.87	-0.69	15.10	8.21	<b>S3.3D</b>	ELU5	1015.09	542.92	-1135.08	48.61	21.64	-18.90	12.66	15.90
<b>S2.6I</b>	ELS3	-398.72	130.13	-157.80	43.91	-2.90	6.79	15.10	8.21	<b>S3.3D</b>	ELU5	231.97	386.79	-1438.92	18.94	-10.85	-24.44	12.66	15.90
<b>S2.6I</b>	ELS3	-597.28	90.33	-90.72	54.89	14.57	5.68	15.10	8.21	<b>S3.3D</b>	ELS3	63.58	-253.13	-1065.83	40.72	-0.70	-2.47	9.78	12.21
<b>S2.6I</b>	ELS3	-617.68	-11.67	-103.95	17.28	8.61	-1.80	15.10	8.21	<b>S3.3D</b>	ELS3	744.69	-117.26	-854.46	63.33	26.32	1.79	9.78	12.21
<b>S3.1D</b>	ELU5	1474.95	-922.65	-868.91	55.43	28.81	33.28	12.03	-11.53	<b>S3.3D</b>	ELS3	873.65	527.58	-933.06	39.51	14.40	-15.92	9.78	12.21
<b>S3.1D</b>	ELU5	1498.35	-805.67	-752.58	82.93	34.95	-23.89	12.03	-11.53	<b>S3.3D</b>	ELS3	192.54	391.71	-1144.43	15.60	-10.53	-20.17	9.78	12.21
<b>S3.1D</b>	ELU5	1500.36	-806.26	-149.91	22.28	6.64	-26.50	12.03	-11.53	<b>S3.3I</b>	ELU5	241.05	438.08	1324.86	16.59	-13.29	27.29	11.90	-15.33
<b>S3.1D</b>	ELU5	1476.96	-923.24	-266.24	-10.30	8.07	30.67	12.03	-11.53	<b>S3.3I</b>	ELU5	1087.52	607.00	1096.09	46.85	17.88	21.95	11.90	-15.33
<b>S3.1D</b>	ELS3	1228.88	-729.02	-669.15	44.63	20.88	26.21	9.52	-8.28	<b>S3.3I</b>	ELU5	934.41	-158.59	1071.19	75.84	32.78	-0.56	11.90	-15.33



<b>S3.3I</b>	ELU5	87.93	-327.51	1299.97	47.12	-1.27	4.78	11.90	-15.33	<b>S3.6D</b>	ELU5	-1074.94	19.27	38.79	51.93	10.30	-9.58	10.79	-6.64
<b>S3.3I</b>	ELS3	198.72	402.40	1142.71	15.33	-10.58	20.36	9.84	-11.88	<b>S3.6D</b>	ELU5	-426.84	148.76	-64.53	46.27	-4.00	-11.24	10.79	-6.64
<b>S3.3I</b>	ELS3	885.85	539.48	933.31	39.09	13.63	16.10	9.84	-11.88	<b>S3.6D</b>	ELU5	-423.92	163.39	-36.50	19.04	-6.86	-8.22	10.79	-6.64
<b>S3.3I</b>	ELS3	756.32	-108.17	859.67	63.06	25.61	-1.61	9.84	-11.88	<b>S3.6D</b>	ELS3	-884.73	34.11	54.95	21.37	7.01	-5.19	8.48	-6.99
<b>S3.3I</b>	ELS3	69.19	-245.25	1069.06	40.59	-0.72	2.66	9.84	-11.88	<b>S3.6D</b>	ELS3	-886.95	22.97	32.93	42.37	9.43	-7.75	8.48	-6.99
<b>S3.4D</b>	ELU5	-290.53	227.00	-495.43	44.73	-13.76	-10.38	12.92	17.02	<b>S3.6D</b>	ELS3	-350.76	130.10	-53.97	36.99	-5.59	-9.14	8.48	-6.99
<b>S3.4D</b>	ELU5	220.81	330.97	-1536.52	55.96	23.26	-11.29	12.92	17.02	<b>S3.6D</b>	ELS3	-348.53	141.24	-31.95	15.58	-7.71	-6.58	8.48	-6.99
<b>S3.4D</b>	ELU5	253.60	494.96	-1432.58	24.28	17.29	-15.80	12.92	17.02	<b>S3.6I</b>	ELU5	-346.57	148.65	61.84	17.00	-7.18	10.95	9.49	7.34
<b>S3.4D</b>	ELU5	-257.73	390.98	-391.50	11.83	-18.10	-14.89	12.92	17.02	<b>S3.6I</b>	ELU5	-350.27	130.14	87.12	41.00	-5.00	13.43	9.49	7.34
<b>S3.4D</b>	ELS3	-221.86	230.48	-388.86	36.25	-9.56	-8.39	10.09	10.71	<b>S3.6I</b>	ELU5	-946.96	10.95	-37.66	46.39	10.83	11.76	9.49	7.34
<b>S3.4D</b>	ELS3	176.51	311.53	-1224.45	44.00	13.84	-9.46	10.09	10.71	<b>S3.6I</b>	ELU5	-943.26	29.46	-62.94	22.92	8.24	9.28	9.49	7.34
<b>S3.4D</b>	ELS3	202.71	442.53	-1175.89	19.27	9.70	-13.07	10.09	10.71	<b>S3.6I</b>	ELS3	-342.42	141.13	33.82	15.26	-7.80	6.96	8.40	7.00
<b>S3.4D</b>	ELS3	-195.66	361.48	-340.30	10.53	-12.47	-12.00	10.09	10.71	<b>S3.6I</b>	ELS3	-344.69	129.75	55.90	36.48	-5.71	9.37	8.40	7.00
<b>S3.4I</b>	ELU5	-174.59	427.70	383.19	10.27	-16.68	17.59	11.88	-13.58	<b>S3.6I</b>	ELS3	-878.25	23.15	-33.25	41.71	9.35	7.99	8.40	7.00
<b>S3.4I</b>	ELU5	256.58	515.73	1479.88	21.59	11.37	18.40	11.88	-13.58	<b>S3.6I</b>	ELS3	-875.97	34.53	-55.32	20.91	6.95	5.58	8.40	7.00
<b>S3.4I</b>	ELU5	223.40	349.84	1478.65	50.71	17.00	13.53	11.88	-13.58	<b>S4.1D</b>	ELU5	528.35	-1000.57	-212.27	74.89	17.36	-21.36	2.35	-1.64
<b>S3.4I</b>	ELU5	-207.77	261.80	381.97	40.52	-12.75	12.72	11.88	-13.58	<b>S4.1D</b>	ELU5	901.20	-925.86	-295.54	29.36	24.04	-26.96	2.35	-1.64
<b>S3.4I</b>	ELS3	-189.01	375.71	338.60	10.31	-12.49	12.32	10.07	-10.38	<b>S4.1D</b>	ELU5	842.34	-1220.15	-203.91	37.31	29.91	16.38	2.35	-1.64
<b>S3.4I</b>	ELS3	209.60	456.82	1185.24	18.96	8.96	13.29	10.07	-10.38	<b>S4.1D</b>	ELU5	469.49	-1294.85	-120.65	78.81	29.60	21.98	2.35	-1.64
<b>S3.4I</b>	ELS3	181.45	316.05	1226.21	43.65	13.23	9.62	10.07	-10.38	<b>S4.1D</b>	ELS3	459.21	-752.53	-155.74	62.12	14.02	-18.10	1.50	0.42
<b>S3.4I</b>	ELS3	-217.16	234.94	379.57	35.98	-9.47	8.65	10.07	-10.38	<b>S4.1D</b>	ELS3	773.79	-689.43	-273.24	24.07	15.79	-22.63	1.50	0.42
<b>S3.5D</b>	ELU5	-397.93	293.31	-277.81	48.94	3.56	-10.78	12.07	-0.82	<b>S4.1D</b>	ELS3	722.83	-944.22	-188.71	29.50	20.25	12.90	1.50	0.42
<b>S3.5D</b>	ELU5	-272.14	318.92	89.81	46.96	1.33	-13.48	12.07	-0.82	<b>S4.1D</b>	ELS3	408.26	-1007.32	-71.21	64.29	23.81	17.43	1.50	0.42
<b>S3.5D</b>	ELU5	-285.49	252.18	328.05	16.12	-0.39	-11.25	12.07	-0.82	<b>S4.1I</b>	ELU5	470.58	-1289.40	45.99	79.61	33.96	-20.72	2.37	-3.32
<b>S3.5D</b>	ELU5	-411.28	226.57	-39.57	19.42	0.86	-8.54	12.07	-0.82	<b>S4.1I</b>	ELU5	869.03	-1209.38	249.56	35.37	23.64	-14.84	2.37	-3.32
<b>S3.5D</b>	ELS3	-326.05	253.65	-231.77	39.55	2.58	-8.80	9.51	-1.15	<b>S4.1I</b>	ELU5	938.88	-860.09	358.76	27.36	17.43	29.12	2.37	-3.32
<b>S3.5D</b>	ELS3	-212.61	276.70	63.55	37.56	-0.26	-10.97	9.51	-1.15	<b>S4.1I</b>	ELU5	540.44	-940.11	155.19	75.65	21.26	23.25	2.37	-3.32
<b>S3.5D</b>	ELS3	-221.34	233.08	258.64	13.24	-1.54	-8.99	9.51	-1.15	<b>S4.1I</b>	ELS3	409.14	-1002.90	66.34	64.50	24.68	-17.35	1.53	-1.44
<b>S3.5D</b>	ELS3	-334.77	210.03	-36.68	16.29	0.50	-6.82	9.51	-1.15	<b>S4.1I</b>	ELS3	728.45	-938.83	189.96	29.23	18.97	-12.80	1.53	-1.44
<b>S3.5I</b>	ELU5	-332.94	216.79	120.58	17.48	1.20	11.19	10.80	1.21	<b>S4.1I</b>	ELS3	780.01	-681.06	274.89	23.73	14.45	22.77	1.53	-1.44
<b>S3.5I</b>	ELU5	-211.81	241.59	-348.82	14.39	-0.86	13.96	10.80	1.21	<b>S4.1I</b>	ELS3	460.69	-745.12	151.26	62.25	14.87	18.22	1.53	-1.44
<b>S3.5I</b>	ELU5	-200.41	298.59	-129.24	42.08	0.11	15.82	10.80	1.21	<b>S4.2D</b>	ELU5	886.34	-1000.18	-546.93	30.37	28.17	-1.73	1.94	3.38
<b>S3.5I</b>	ELU5	-321.54	273.79	340.16	43.83	3.18	13.05	10.80	1.21	<b>S4.2D</b>	ELU5	661.08	-1044.67	-892.42	35.61	20.14	1.44	1.94	3.38
<b>S3.5I</b>	ELS3	-328.51	210.69	44.77	15.98	0.43	7.18	9.44	1.15	<b>S4.2D</b>	ELU5	697.86	-860.74	-714.50	39.74	17.48	-4.42	1.94	3.38
<b>S3.5I</b>	ELS3	-217.50	233.27	-262.69	13.06	-1.61	9.34	9.44	1.15	<b>S4.2D</b>	ELU5	923.12	-816.25	-369.02	35.90	23.82	-7.59	1.94	3.38
<b>S3.5I</b>	ELS3	-208.82	276.64	-69.42	37.19	-0.36	11.20	9.44	1.15	<b>S4.2D</b>	ELS3	761.88	-748.97	-460.10	25.44	21.14	-2.23	1.02	3.58
<b>S3.5I</b>	ELS3	-319.83	254.06	238.05	39.05	2.49	9.03	9.44	1.15	<b>S4.2D</b>	ELS3	560.94	-788.76	-705.48	28.81	12.86	0.58	1.02	3.58
<b>S3.6D</b>	ELU5	-1072.01	33.90	66.82	25.21	7.08	-6.56	10.79	-6.64	<b>S4.2D</b>	ELS3	594.40	-621.49	-582.14	30.78	10.06	-3.66	1.02	3.58



<b>S4.2D</b>	ELS3	795.34	-581.70	-336.76	28.55	17.02	-6.47	1.02	3.58	<b>S4.4I</b>	ELS3	73.72	-90.09	249.89	24.11	-9.01	4.84	-0.30	-12.08
<b>S4.2I</b>	ELU5	964.62	-731.41	443.07	34.96	23.10	8.89	1.83	-5.46	<b>S4.4I</b>	ELS3	153.56	309.12	410.23	24.86	-12.54	10.69	-0.30	-12.08
<b>S4.2I</b>	ELU5	717.88	-780.36	689.27	36.80	12.25	5.56	1.83	-5.46	<b>S4.4I</b>	ELS3	395.87	358.54	1005.09	35.98	12.54	7.64	-0.30	-12.08
<b>S4.2I</b>	ELU5	672.58	-1006.86	806.14	32.91	15.25	0.81	1.83	-5.46	<b>S4.5D</b>	ELU5	-395.71	293.70	-328.63	29.07	-1.24	-12.35	-0.71	0.34
<b>S4.2I</b>	ELU5	919.32	-957.91	559.94	29.70	27.65	4.14	1.83	-5.46	<b>S4.5D</b>	ELU5	-403.83	253.09	-392.04	27.26	-0.62	-7.30	-0.71	0.34
<b>S4.2I</b>	ELS3	801.93	-571.42	339.78	28.49	16.60	6.56	1.07	-3.54	<b>S4.5D</b>	ELU5	150.02	364.27	-53.98	32.58	-0.06	-6.72	-0.71	0.34
<b>S4.2I</b>	ELS3	601.46	-611.13	580.74	30.66	9.74	3.75	1.07	-3.54	<b>S4.5D</b>	ELU5	158.14	404.88	9.43	34.35	-0.37	-11.78	-0.71	0.34
<b>S4.2I</b>	ELS3	567.62	-780.34	700.92	28.57	12.50	-0.42	1.07	-3.54	<b>S4.5D</b>	ELS3	-322.56	254.31	-271.74	23.96	-1.16	-10.04	-1.19	-0.24
<b>S4.2I</b>	ELS3	768.09	-740.64	459.95	25.24	20.69	2.39	1.07	-3.54	<b>S4.5D</b>	ELS3	-327.57	229.25	-314.89	20.97	-1.05	-5.88	-1.19	-0.24
<b>S4.3D</b>	ELU5	216.93	-727.68	-797.22	42.81	4.53	-8.66	1.54	14.72	<b>S4.5D</b>	ELS3	150.71	325.24	-37.60	25.12	-1.68	-5.47	-1.19	-0.24
<b>S4.3D</b>	ELU5	745.61	-621.99	-765.84	42.47	35.97	-4.92	1.54	14.72	<b>S4.5D</b>	ELS3	155.73	350.30	5.55	28.10	-1.53	-9.63	-1.19	-0.24
<b>S4.3D</b>	ELU5	820.92	-245.44	-962.00	38.51	29.80	1.67	1.54	14.72	<b>S4.5I</b>	ELU5	209.91	380.55	-41.70	31.24	-1.20	14.08	-1.09	-0.03
<b>S4.3D</b>	ELU5	292.24	-351.12	-993.38	39.13	-1.39	-2.06	1.54	14.72	<b>S4.5I</b>	ELU5	202.18	341.90	-4.86	28.54	-1.09	8.07	-1.09	-0.03
<b>S4.3D</b>	ELS3	212.35	-521.28	-651.18	33.37	1.18	-7.10	0.66	11.15	<b>S4.5I</b>	ELU5	-306.74	239.60	417.26	22.38	-0.98	8.65	-1.09	-0.03
<b>S4.3D</b>	ELS3	631.17	-437.59	-603.02	32.94	24.99	-4.24	0.66	11.15	<b>S4.5I</b>	ELU5	-299.01	278.26	380.43	25.13	-1.42	14.65	-1.09	-0.03
<b>S4.3D</b>	ELS3	693.16	-127.69	-795.00	31.17	20.52	0.95	0.66	11.15	<b>S4.5I</b>	ELS3	161.88	350.71	-7.50	27.81	-1.61	9.85	-1.21	0.24
<b>S4.3D</b>	ELS3	274.33	-211.37	-843.15	31.86	-3.10	-1.92	0.66	11.15	<b>S4.5I</b>	ELS3	156.61	324.36	33.43	24.78	-1.76	5.59	-1.21	0.24
<b>S4.3I</b>	ELU5	371.63	-271.20	1058.28	36.18	-4.76	4.24	1.37	-14.63	<b>S4.5I</b>	ELS3	-320.19	228.66	318.45	20.53	-1.12	6.01	-1.21	0.24
<b>S4.3I</b>	ELU5	838.35	-178.03	953.07	36.20	26.15	0.36	1.37	-14.63	<b>S4.5I</b>	ELS3	-314.92	255.00	277.52	23.57	-1.23	10.27	-1.21	0.24
<b>S4.3I</b>	ELU5	759.89	-570.32	688.39	39.74	32.53	6.29	1.37	-14.63	<b>S4.6D</b>	ELU5	-937.56	46.69	-6.55	29.17	5.33	-10.41	-0.71	-6.00
<b>S4.3I</b>	ELU5	293.17	-663.49	793.60	39.45	1.20	10.17	1.37	-14.63	<b>S4.6D</b>	ELU5	-937.83	45.33	-60.83	27.30	5.14	-9.28	-0.71	-6.00
<b>S4.3I</b>	ELS3	283.61	-202.76	847.92	31.59	-3.24	2.12	0.70	-10.93	<b>S4.6D</b>	ELU5	-424.89	147.78	-169.86	25.99	-7.75	-9.25	-0.71	-6.00
<b>S4.3I</b>	ELS3	699.76	-119.62	795.10	30.90	19.90	-0.77	0.70	-10.93	<b>S4.6D</b>	ELU5	-424.62	149.15	-115.58	27.70	-7.30	-10.39	-0.71	-6.00
<b>S4.3I</b>	ELS3	637.39	-431.51	599.37	32.75	24.44	4.32	0.70	-10.93	<b>S4.6D</b>	ELS3	-775.88	45.13	-4.03	24.24	5.49	-8.45	-1.15	-6.48
<b>S4.3I</b>	ELS3	221.23	-514.65	652.19	33.18	1.08	7.22	0.70	-10.93	<b>S4.6D</b>	ELS3	-776.10	44.03	-49.39	21.31	5.06	-7.51	-1.15	-6.48
<b>S4.4D</b>	ELU5	437.22	373.73	-1240.79	45.29	22.17	-8.93	0.39	19.14	<b>S4.6D</b>	ELS3	-347.49	129.65	-139.53	19.58	-8.83	-7.48	-1.15	-6.48
<b>S4.4D</b>	ELU5	139.79	313.11	-538.08	29.95	-17.76	-12.82	0.39	19.14	<b>S4.6D</b>	ELS3	-347.27	130.75	-94.17	22.39	-8.19	-8.42	-1.15	-6.48
<b>S4.4D</b>	ELU5	44.28	-164.40	-290.38	30.95	-12.88	-5.80	0.39	19.14	<b>S4.6I</b>	ELU5	-327.74	134.60	127.64	23.66	-8.04	12.58	-1.11	6.69
<b>S4.4D</b>	ELU5	341.71	-103.79	-993.09	46.18	28.63	-1.92	0.39	19.14	<b>S4.6I</b>	ELU5	-328.16	132.52	179.88	20.97	-8.75	10.70	-1.11	6.69
<b>S4.4D</b>	ELS3	387.26	353.28	-1001.79	36.29	13.06	-7.44	-0.31	12.33	<b>S4.6I</b>	ELU5	-795.11	39.28	53.74	21.79	5.63	10.69	-1.11	6.69
<b>S4.4D</b>	ELS3	146.50	304.19	-415.46	25.16	-12.55	-10.47	-0.31	12.33	<b>S4.6I</b>	ELU5	-794.70	41.36	1.49	24.67	6.05	12.57	-1.11	6.69
<b>S4.4D</b>	ELS3	66.93	-93.69	-251.52	24.40	-9.04	-4.71	-0.31	12.33	<b>S4.6I</b>	ELS3	-339.79	130.69	95.60	21.99	-8.28	8.65	-1.17	6.50
<b>S4.4D</b>	ELS3	307.69	-44.60	-837.85	35.49	17.79	-1.68	-0.31	12.33	<b>S4.6I</b>	ELS3	-340.09	129.16	141.11	19.13	-8.93	7.61	-1.17	6.50
<b>S4.4I</b>	ELU5	412.94	-64.68	1074.85	42.21	22.92	3.31	0.10	-16.05	<b>S4.6I</b>	ELS3	-766.04	44.08	49.12	20.76	5.00	7.64	-1.17	6.50
<b>S4.4I</b>	ELU5	108.43	-126.87	271.97	27.39	-12.07	7.19	0.10	-16.05	<b>S4.6I</b>	ELS3	-765.73	45.61	3.61	23.75	5.43	8.68	-1.17	6.50
<b>S4.4I</b>	ELU5	202.59	343.94	434.12	27.08	-16.74	15.10	0.10	-16.05	<b>S5.1D</b>	ELU5	99.31	-1368.99	-70.35	16.82	17.62	17.68	-0.32	-8.54
<b>S4.4I</b>	ELU5	507.10	406.14	1236.99	42.03	16.57	11.22	0.10	-16.05	<b>S5.1D</b>	ELU5	419.46	-1304.68	-281.59	56.39	33.33	19.06	-0.32	-8.54
<b>S4.4I</b>	ELS3	316.02	-40.67	844.75	35.19	17.31	1.79	-0.30	-12.08	<b>S5.1D</b>	ELU5	470.76	-1048.18	-222.61	53.93	33.69	-14.58	-0.32	-8.54



<b>S5.1D</b>	ELU5	150.61	-1112.50	-11.37	17.60	13.06	-15.97	-0.32	-8.54
<b>S5.1D</b>	ELS3	97.43	-1069.51	-69.91	14.45	14.36	13.83	-0.26	-4.94
<b>S5.1D</b>	ELS3	365.16	-1015.76	-215.55	45.40	22.92	15.16	-0.26	-4.94
<b>S5.1D</b>	ELS3	409.88	-792.13	-172.76	43.44	22.89	-11.86	-0.26	-4.94
<b>S5.1D</b>	ELS3	142.15	-845.87	-27.13	15.08	10.42	-13.18	-0.26	-4.94
<b>S5.1I</b>	ELU5	158.56	-1072.74	54.92	18.52	17.33	16.44	-0.27	3.46
<b>S5.1I</b>	ELU5	483.30	-1007.60	192.14	51.75	27.07	14.91	-0.27	3.46
<b>S5.1I</b>	ELU5	425.18	-1298.24	235.46	54.00	26.96	-17.73	-0.27	3.46
<b>S5.1I</b>	ELU5	100.43	-1363.37	98.24	17.69	21.99	-16.21	-0.27	3.46
<b>S5.1I</b>	ELS3	143.42	-839.55	28.59	15.25	11.19	13.20	-0.24	4.01
<b>S5.1I</b>	ELS3	413.75	-785.29	170.84	43.15	21.68	11.87	-0.24	4.01
<b>S5.1I</b>	ELS3	368.65	-1010.81	212.36	45.06	21.71	-15.07	-0.24	4.01
<b>S5.1I</b>	ELS3	98.31	-1065.07	70.11	14.59	15.14	-13.74	-0.24	4.01
<b>S5.2D</b>	ELU5	508.14	-899.32	-387.87	42.99	17.73	-8.45	-0.19	5.40
<b>S5.2D</b>	ELU5	455.41	-1162.96	-257.76	43.24	24.28	0.91	-0.19	5.40
<b>S5.2D</b>	ELU5	447.50	-1164.47	-314.85	54.37	36.84	6.38	-0.19	5.40
<b>S5.2D</b>	ELU5	500.23	-900.82	-444.95	55.55	28.14	-2.98	-0.19	5.40
<b>S5.2D</b>	ELS3	453.58	-650.13	-340.03	34.39	10.46	-7.02	-0.08	5.21
<b>S5.2D</b>	ELS3	408.82	-873.91	-219.22	34.79	15.70	0.69	-0.08	5.21
<b>S5.2D</b>	ELS3	392.90	-877.07	-241.61	44.27	27.68	5.07	-0.08	5.21
<b>S5.2D</b>	ELS3	437.65	-653.29	-362.41	45.07	20.65	-2.65	-0.08	5.21
<b>S5.2I</b>	ELU5	520.76	-820.32	427.85	54.17	27.36	4.12	0.06	-7.54
<b>S5.2I</b>	ELU5	462.60	-1111.13	267.54	53.55	36.49	-5.86	0.06	-7.54
<b>S5.2I</b>	ELU5	503.02	-1103.03	274.65	40.94	19.30	-0.23	0.06	-7.54
<b>S5.2I</b>	ELU5	561.18	-812.23	434.96	40.00	12.48	9.75	0.06	-7.54
<b>S5.2I</b>	ELS3	442.12	-643.45	361.22	44.86	20.19	2.73	-0.03	-5.15
<b>S5.2I</b>	ELS3	397.11	-868.50	239.01	44.17	27.25	-5.06	-0.03	-5.15
<b>S5.2I</b>	ELS3	415.91	-864.76	220.18	34.65	15.41	-0.67	-0.03	-5.15
<b>S5.2I</b>	ELS3	460.92	-639.71	342.39	34.12	10.13	7.12	-0.03	-5.15
<b>S5.3D</b>	ELU5	343.39	-702.84	-618.08	33.56	2.06	-7.02	-0.17	16.67
<b>S5.3D</b>	ELU5	349.28	-673.43	-467.60	33.16	2.53	-1.11	-0.17	16.67
<b>S5.3D</b>	ELU5	561.76	-631.17	-286.12	46.21	38.05	-0.67	-0.17	16.67
<b>S5.3D</b>	ELU5	555.88	-660.58	-436.60	46.72	37.45	-6.57	-0.17	16.67
<b>S5.3D</b>	ELS3	302.96	-503.54	-493.98	26.67	-0.58	-5.79	0.05	12.65
<b>S5.3D</b>	ELS3	308.83	-474.20	-389.88	26.87	-0.28	-0.77	0.05	12.65
<b>S5.3D</b>	ELS3	496.22	-436.91	-255.05	37.28	26.68	-0.53	0.05	12.65
<b>S5.3D</b>	ELS3	490.36	-466.24	-359.15	37.25	26.27	-5.55	0.05	12.65
<b>S5.3I</b>	ELU5	603.19	-602.18	431.93	43.97	34.03	8.02	0.23	-16.71
<b>S5.3I</b>	ELU5	612.68	-554.74	334.95	44.40	34.89	1.20	0.23	-16.71
<b>S5.3I</b>	ELU5	383.65	-600.34	483.20	30.49	-0.81	1.64	0.23	-16.71
<b>S5.3I</b>	ELU5	374.17	-647.79	580.18	29.78	-1.39	8.45	0.23	-16.71
<b>S5.3I</b>	ELS3	496.84	-460.09	359.29	36.93	25.71	5.64	0.11	-12.45
<b>S5.3I</b>	ELS3	502.86	-429.99	258.05	37.11	26.17	0.56	0.11	-12.45
<b>S5.3I</b>	ELS3	314.61	-467.46	392.13	26.72	-0.38	0.81	0.11	-12.45
<b>S5.3I</b>	ELS3	308.59	-497.56	493.36	26.37	-0.71	5.89	0.11	-12.45
<b>S5.4D</b>	ELU5	6.17	-171.93	-421.40	32.13	-14.29	-4.69	-0.21	20.20
<b>S5.4D</b>	ELU5	0.66	-199.52	-129.36	31.42	-12.27	-6.17	-0.21	20.20
<b>S5.4D</b>	ELU5	462.64	-106.60	-521.05	38.64	30.56	-4.76	-0.21	20.20
<b>S5.4D</b>	ELU5	468.16	-79.00	-813.10	39.04	28.82	-3.28	-0.21	20.20
<b>S5.4D</b>	ELS3	17.88	-103.40	-372.42	25.78	-9.97	-3.80	0.21	13.06
<b>S5.4D</b>	ELS3	16.40	-110.86	-110.64	26.21	-8.29	-4.74	0.21	13.06
<b>S5.4D</b>	ELS3	396.79	-34.37	-418.71	30.89	19.37	-3.71	0.21	13.06
<b>S5.4D</b>	ELS3	398.28	-26.91	-680.48	30.29	17.94	-2.78	0.21	13.06
<b>S5.4I</b>	ELU5	493.91	-49.05	861.24	34.66	23.03	4.63	0.40	-17.17
<b>S5.4I</b>	ELU5	488.64	-75.41	517.61	35.71	25.26	5.38	0.40	-17.17
<b>S5.4I</b>	ELU5	74.64	-158.78	96.88	29.11	-11.21	6.85	0.40	-17.17
<b>S5.4I</b>	ELU5	79.90	-132.42	440.51	28.21	-13.54	6.11	0.40	-17.17
<b>S5.4I</b>	ELS3	403.38	-23.64	685.75	29.91	17.46	2.89	0.28	-12.84
<b>S5.4I</b>	ELS3	401.88	-31.14	420.96	30.68	18.95	3.74	0.28	-12.84
<b>S5.4I</b>	ELS3	23.25	-107.28	109.52	26.02	-8.25	4.78	0.28	-12.84
<b>S5.4I</b>	ELS3	24.75	-99.78	374.31	25.41	-9.97	3.93	0.28	-12.84
<b>S5.5D</b>	ELU5	111.87	356.51	-188.94	35.15	0.14	-6.17	-0.38	-0.45
<b>S5.5D</b>	ELU5	-120.17	309.84	-454.52	33.90	1.04	-7.84	-0.38	-0.45
<b>S5.5D</b>	ELU5	-166.26	79.41	-568.78	32.95	3.25	-6.43	-0.38	-0.45
<b>S5.5D</b>	ELU5	65.78	126.09	-303.20	34.18	2.25	-4.76	-0.38	-0.45
<b>S5.5D</b>	ELS3	101.63	315.31	-158.15	27.50	-1.46	-4.96	0.18	-0.86
<b>S5.5D</b>	ELS3	-98.18	275.14	-360.84	26.49	0.33	-6.37	0.18	-0.86
<b>S5.5D</b>	ELS3	-136.84	81.83	-449.51	26.96	2.44	-5.02	0.18	-0.86
<b>S5.5D</b>	ELS3	62.97	122.00	-246.82	27.96	0.59	-3.62	0.18	-0.86
<b>S5.5I</b>	ELU5	129.13	113.69	251.40	31.52	1.51	5.45	0.26	0.75
<b>S5.5I</b>	ELU5	-80.14	71.54	546.58	29.71	3.16	7.10	0.26	0.75
<b>S5.5I</b>	ELU5	-35.68	293.86	459.51	29.09	0.64	9.17	0.26	0.75
<b>S5.5I</b>	ELU5	173.59	336.01	164.33	30.87	-0.89	7.52	0.26	0.75
<b>S5.5I</b>	ELS3	68.97	121.31	243.45	27.75	0.53	3.66	0.25	0.86
<b>S5.5I</b>	ELS3	-129.08	81.50	449.04	26.66	2.40	5.07	0.25	0.86
<b>S5.5I</b>	ELS3	-90.46	274.62	362.80	26.03	0.25	6.49	0.25	0.86





<b>S5.5I</b>	ELS3	107.60	314.44	157.22	27.11	-1.55	5.08	0.25	0.86	<b>S6.2D</b>	ELS3	312.21	-893.30	-193.61	37.13	15.64	3.41	-9.02	4.18
<b>S5.6D</b>	ELU5	-587.05	115.43	-125.70	32.48	6.20	-10.20	-0.28	-6.00	<b>S6.2D</b>	ELS3	361.26	-648.07	-111.87	13.85	9.70	-4.79	-9.02	4.18
<b>S5.6D</b>	ELU5	-624.81	-73.35	-128.32	31.75	8.82	-7.88	-0.28	-6.00	<b>S6.2D</b>	ELS3	274.03	-665.63	-9.93	7.95	17.79	-6.37	-9.02	4.18
<b>S5.6D</b>	ELU5	-179.00	15.71	-236.21	31.60	-4.02	-5.96	-0.28	-6.00	<b>S6.2I</b>	ELU5	325.70	-839.12	34.11	9.88	24.64	7.85	-10.32	-6.21
<b>S5.6D</b>	ELU5	-141.24	204.48	-233.59	32.28	-6.52	-8.29	-0.28	-6.00	<b>S6.2I</b>	ELU5	429.96	-818.14	137.17	16.32	12.35	6.02	-10.32	-6.21
<b>S5.6D</b>	ELS3	-490.23	101.16	-105.19	25.52	5.93	-8.25	0.23	-6.47	<b>S6.2I</b>	ELU5	367.54	-1130.24	221.69	42.94	19.17	-3.64	-10.32	-6.21
<b>S5.6D</b>	ELS3	-521.30	-54.15	-106.23	26.06	8.27	-6.22	0.23	-6.47	<b>S6.2I</b>	ELU5	263.28	-1151.21	118.63	34.93	33.29	-1.81	-10.32	-6.21
<b>S5.6D</b>	ELS3	-149.17	20.19	-187.76	25.41	-5.55	-4.68	0.23	-6.47	<b>S6.2I</b>	ELS3	278.22	-656.05	11.83	7.87	17.35	6.35	-8.97	-4.08
<b>S5.6D</b>	ELS3	-118.10	175.50	-186.71	24.82	-7.80	-6.71	0.23	-6.47	<b>S6.2I</b>	ELS3	365.96	-638.38	112.26	13.77	9.45	4.77	-8.97	-4.08
<b>S5.6I</b>	ELU5	-57.10	186.72	223.45	27.42	-7.44	9.74	0.30	6.66	<b>S6.2I</b>	ELS3	316.70	-884.67	192.61	36.91	15.36	-3.39	-8.97	-4.08
<b>S5.6I</b>	ELU5	-93.43	5.11	226.04	28.19	-4.70	6.53	0.30	6.66	<b>S6.2I</b>	ELS3	228.97	-902.34	92.18	29.62	24.84	-1.81	-8.97	-4.08
<b>S5.6I</b>	ELU5	-487.11	-73.52	121.40	27.71	9.53	8.41	0.30	6.66	<b>S6.3D</b>	ELU5	400.31	-793.06	-106.85	16.36	2.20	-5.68	-12.21	16.82
<b>S5.6I</b>	ELU5	-450.79	108.09	118.81	27.02	6.66	11.62	0.30	6.66	<b>S6.3D</b>	ELU5	427.79	-787.46	-193.11	20.48	37.97	-2.83	-12.21	16.82
<b>S5.6I</b>	ELS3	-110.36	175.09	186.70	24.36	-7.90	6.84	0.29	6.49	<b>S6.3D</b>	ELU5	454.76	-652.64	-274.99	50.67	40.04	0.49	-12.21	16.82
<b>S5.6I</b>	ELS3	-141.39	19.93	187.81	25.10	-5.62	4.72	0.29	6.49	<b>S6.3D</b>	ELU5	427.27	-658.24	-188.74	47.30	4.25	-2.37	-12.21	16.82
<b>S5.6I</b>	ELS3	-510.48	-53.81	106.21	25.67	8.23	6.26	0.29	6.49	<b>S6.3D</b>	ELS3	354.61	-572.52	-87.79	12.96	-0.54	-4.30	-9.99	12.60
<b>S5.6I</b>	ELS3	-479.45	101.35	105.11	24.98	5.86	8.38	0.29	6.49	<b>S6.3D</b>	ELS3	377.29	-567.92	-148.60	16.03	26.28	-2.05	-9.99	12.60
<b>S6.1D</b>	ELU5	-75.06	-1157.61	-26.49	60.76	22.06	-13.11	-9.83	-2.52	<b>S6.3D</b>	ELS3	399.61	-456.30	-228.41	40.76	28.09	0.44	-9.99	12.60
<b>S6.1D</b>	ELU5	261.27	-1090.36	-14.98	34.41	29.40	-16.14	-9.83	-2.52	<b>S6.3D</b>	ELS3	376.93	-460.91	-167.60	38.23	1.28	-1.81	-9.99	12.60
<b>S6.1D</b>	ELU5	256.56	-1113.89	-2.67	10.99	26.79	9.62	-9.83	-2.52	<b>S6.3I</b>	ELU5	471.29	-583.19	235.24	43.57	1.02	2.96	-11.26	-16.63
<b>S6.1D</b>	ELU5	-79.76	-1181.15	-14.18	35.05	23.40	12.65	-9.83	-2.52	<b>S6.3I</b>	ELU5	477.20	-581.96	280.71	47.59	36.32	-0.04	-11.26	-16.63
<b>S6.1D</b>	ELS3	-45.08	-883.34	-14.06	50.57	17.81	-10.79	-8.29	-0.04	<b>S6.3I</b>	ELU5	448.62	-724.84	169.38	19.63	35.00	2.70	-11.26	-16.63
<b>S6.1D</b>	ELS3	241.97	-825.92	-23.97	28.12	19.54	-13.19	-8.29	-0.04	<b>S6.3I</b>	ELU5	442.71	-726.08	123.91	15.13	-0.46	5.70	-11.26	-16.63
<b>S6.1D</b>	ELS3	236.63	-852.63	-11.18	8.37	17.13	7.89	-8.29	-0.04	<b>S6.3I</b>	ELS3	382.06	-454.30	171.19	37.93	1.18	1.85	-9.90	-12.39
<b>S6.1D</b>	ELS3	-50.42	-910.05	-1.26	28.88	18.71	10.30	-8.29	-0.04	<b>S6.3I</b>	ELS3	403.66	-449.91	229.47	40.45	27.53	-0.41	-9.90	-12.39
<b>S6.1I</b>	ELU5	-75.95	-1162.10	-11.92	36.03	27.71	-12.75	-9.64	-2.38	<b>S6.3I</b>	ELS3	381.33	-561.53	148.10	15.92	25.78	2.02	-9.90	-12.39
<b>S6.1I</b>	ELU5	275.16	-1091.83	26.88	9.56	20.57	-9.62	-9.64	-2.38	<b>S6.3I</b>	ELS3	359.73	-565.92	89.82	12.88	-0.59	4.27	-9.90	-12.39
<b>S6.1I</b>	ELU5	283.99	-1047.67	44.45	32.39	23.06	16.58	-9.64	-2.38	<b>S6.4D</b>	ELU5	540.63	-91.42	-241.58	55.73	35.92	-4.94	-14.51	22.36
<b>S6.1I</b>	ELU5	-67.12	-1117.94	5.65	61.39	26.04	13.46	-9.64	-2.38	<b>S6.4D</b>	ELU5	246.55	-150.43	-76.50	44.87	-11.52	-6.02	-14.51	22.36
<b>S6.1I</b>	ELS3	-49.38	-904.84	-0.11	29.05	19.43	-10.34	-8.27	-0.84	<b>S6.4D</b>	ELU5	209.99	-333.21	185.87	8.07	-17.37	-4.20	-14.51	22.36
<b>S6.1I</b>	ELS3	240.05	-846.94	12.26	8.11	15.99	-7.92	-8.27	-0.84	<b>S6.4D</b>	ELU5	504.08	-274.20	20.79	19.89	30.32	-3.12	-14.51	22.36
<b>S6.1I</b>	ELS3	245.61	-819.12	25.02	27.81	18.38	13.21	-8.27	-0.84	<b>S6.4D</b>	ELS3	464.90	-21.08	-196.29	44.20	23.36	-3.82	-11.70	14.56
<b>S6.1I</b>	ELS3	-43.81	-877.02	12.65	50.70	18.51	10.80	-8.27	-0.84	<b>S6.4D</b>	ELS3	203.46	-73.52	-67.06	36.82	-7.50	-4.63	-11.70	14.56
<b>S6.2D</b>	ELU5	238.01	-1206.67	-105.58	36.11	33.98	2.43	-10.85	4.21	<b>S6.4D</b>	ELS3	174.07	-220.45	142.08	7.17	-12.32	-3.09	-11.70	14.56
<b>S6.2D</b>	ELU5	348.40	-1184.42	-248.22	45.92	24.02	4.21	-10.85	4.21	<b>S6.4D</b>	ELS3	435.51	-168.01	12.85	15.26	18.76	-2.29	-11.70	14.56
<b>S6.2D</b>	ELU5	406.93	-891.77	-140.38	17.86	17.11	-6.26	-10.85	4.21	<b>S6.4I</b>	ELU5	542.51	-227.06	44.63	18.53	25.31	3.14	-13.16	-19.14
<b>S6.2D</b>	ELU5	296.54	-914.01	2.26	9.86	25.05	-8.04	-10.85	4.21	<b>S6.4I</b>	ELU5	253.00	-285.21	-163.95	7.64	-15.64	4.32	-13.16	-19.14
<b>S6.2D</b>	ELS3	224.98	-910.87	-91.66	29.82	25.32	1.83	-9.02	4.18	<b>S6.4I</b>	ELU5	286.76	-116.41	60.89	40.92	-10.50	6.71	-13.16	-19.14





<b>S6.4I</b>	ELU5	576.27	-58.26	269.47	51.12	29.98	5.53	-13.16	-19.14	<b>S7.1D</b>	ELU5	184.24	-942.89	-13.49	8.70	26.71	-9.98	-18.14	-5.81
<b>S6.4I</b>	ELS3	440.10	-164.08	-7.69	15.14	18.37	2.27	-11.59	-14.32	<b>S7.1D</b>	ELU5	-30.48	-985.91	47.86	-13.60	12.72	-10.21	-18.14	-5.81
<b>S6.4I</b>	ELS3	178.75	-216.51	-139.67	7.11	-12.22	3.09	-11.59	-14.32	<b>S7.1D</b>	ELU5	-69.11	-1179.05	15.92	30.49	23.72	10.48	-18.14	-5.81
<b>S6.4I</b>	ELS3	207.97	-70.41	67.91	36.46	-7.46	4.67	-11.59	-14.32	<b>S7.1D</b>	ELS3	144.14	-871.11	-30.77	45.48	23.67	8.80	-15.35	-2.77
<b>S6.4I</b>	ELS3	469.32	-17.98	199.90	43.81	22.88	3.85	-11.59	-14.32	<b>S7.1D</b>	ELS3	177.54	-704.10	-5.67	6.07	16.88	-7.82	-15.35	-2.77
<b>S6.5D</b>	ELU5	258.45	164.38	-620.29	49.01	7.22	-5.81	-15.41	-1.28	<b>S7.1D</b>	ELS3	-7.80	-741.22	32.80	-11.08	9.70	-8.12	-15.35	-2.77
<b>S6.5D</b>	ELU5	213.57	-60.00	-655.45	10.69	0.16	-5.56	-15.41	-1.28	<b>S7.1D</b>	ELS3	-41.20	-908.22	7.70	26.33	19.08	8.50	-15.35	-2.77
<b>S6.5D</b>	ELU5	266.83	-49.06	-328.57	10.18	-2.56	-5.10	-15.41	-1.28	<b>S7.1I</b>	ELU5	-65.29	-1159.95	-0.21	31.03	27.47	-10.52	-17.88	1.24
<b>S6.5D</b>	ELU5	311.71	175.32	-293.41	48.95	4.47	-5.34	-15.41	-1.28	<b>S7.1I</b>	ELU5	-23.98	-953.40	-27.18	-12.58	16.66	9.74	-17.88	1.24
<b>S6.5D</b>	ELS3	203.96	150.02	-490.63	39.49	5.51	-4.48	-12.34	-1.49	<b>S7.1I</b>	ELU5	194.40	-909.68	5.69	7.50	20.84	9.49	-17.88	1.24
<b>S6.5D</b>	ELS3	167.65	-31.53	-514.55	8.79	-0.16	-4.12	-12.34	-1.49	<b>S7.1I</b>	ELU5	153.09	-1116.24	32.66	53.37	28.57	-10.76	-17.88	1.24
<b>S6.5D</b>	ELS3	213.75	-22.09	-262.57	8.36	-3.32	-3.76	-12.34	-1.49	<b>S7.1I</b>	ELS3	-40.16	-903.00	-7.08	26.45	19.74	-8.53	-15.33	1.94
<b>S6.5D</b>	ELS3	250.06	159.46	-238.64	39.41	2.32	-4.12	-12.34	-1.49	<b>S7.1I</b>	ELS3	-6.57	-735.09	-31.71	-10.92	10.38	8.06	-15.33	1.94
<b>S6.5I</b>	ELU5	341.28	156.15	255.85	44.49	3.46	6.04	-13.93	1.50	<b>S7.1I</b>	ELS3	180.01	-697.73	5.75	5.86	15.79	7.76	-15.33	1.94
<b>S6.5I</b>	ELU5	300.27	-48.92	276.39	9.45	-2.87	5.15	-13.93	1.50	<b>S7.1I</b>	ELS3	146.43	-865.64	30.39	45.20	22.58	-8.84	-15.33	1.94
<b>S6.5I</b>	ELU5	276.97	-53.87	610.44	9.36	0.32	5.58	-13.93	1.50	<b>S7.2D</b>	ELU5	347.14	-903.91	17.09	43.42	19.93	-8.61	-19.82	8.33
<b>S6.5I</b>	ELU5	317.99	151.20	589.91	44.01	6.66	6.47	-13.93	1.50	<b>S7.2D</b>	ELU5	319.91	-1040.07	29.67	-6.17	14.06	1.89	-19.82	8.33
<b>S6.5I</b>	ELS3	253.71	158.30	237.08	39.03	2.24	4.17	-12.22	1.49	<b>S7.2D</b>	ELU5	158.35	-1072.31	-27.92	8.08	32.53	5.28	-19.82	8.33
<b>S6.5I</b>	ELS3	217.71	-21.73	259.61	8.28	-3.35	3.75	-12.22	1.49	<b>S7.2D</b>	ELU5	185.59	-936.15	-40.50	57.64	36.90	-5.23	-19.82	8.33
<b>S6.5I</b>	ELS3	174.15	-30.66	511.77	8.66	-0.18	4.11	-12.22	1.49	<b>S7.2D</b>	ELS3	317.57	-656.95	8.76	35.67	12.34	-6.74	-16.57	7.40
<b>S6.5I</b>	ELS3	210.16	149.37	489.24	39.05	5.43	4.53	-12.22	1.49	<b>S7.2D</b>	ELS3	295.50	-767.27	25.55	-5.74	7.20	1.82	-16.57	7.40
<b>S6.6D</b>	ELU5	-225.95	6.50	-64.69	46.34	12.16	-6.77	-14.75	-6.47	<b>S7.2D</b>	ELS3	159.47	-794.43	-12.73	6.08	23.58	4.50	-16.57	7.40
<b>S6.6D</b>	ELU5	-231.52	-21.38	-33.57	9.49	4.54	-3.98	-14.75	-6.47	<b>S7.2D</b>	ELS3	181.54	-684.11	-29.52	47.56	27.43	-4.06	-16.57	7.40
<b>S6.6D</b>	ELU5	240.12	72.76	-257.48	9.56	-9.36	-4.26	-14.75	-6.47	<b>S7.2I</b>	ELU5	203.64	-863.52	39.89	56.09	35.64	4.95	-18.99	-9.85
<b>S6.6D</b>	ELU5	245.70	100.63	-288.61	46.50	-1.46	-7.06	-14.75	-6.47	<b>S7.2I</b>	ELU5	174.80	-1007.68	12.74	8.42	31.95	-5.55	-18.99	-9.85
<b>S6.6D</b>	ELS3	-203.42	9.49	-50.01	37.29	10.84	-5.32	-11.82	-6.81	<b>S7.2I</b>	ELU5	348.59	-972.96	-18.23	-6.30	10.13	-2.05	-18.99	-9.85
<b>S6.6D</b>	ELS3	-207.45	-10.65	-22.80	7.77	4.70	-2.76	-11.82	-6.81	<b>S7.2I</b>	ELU5	377.42	-828.80	8.92	41.06	15.54	8.45	-18.99	-9.85
<b>S6.6D</b>	ELS3	187.60	68.20	-202.56	7.46	-9.89	-3.00	-11.82	-6.81	<b>S7.2I</b>	ELS3	184.60	-674.75	29.96	47.35	26.91	4.03	-16.50	-7.26
<b>S6.6D</b>	ELS3	191.62	88.34	-229.76	37.07	-3.54	-5.57	-11.82	-6.81	<b>S7.2I</b>	ELS3	162.54	-785.05	12.37	6.04	23.11	-4.57	-16.50	-7.26
<b>S6.6I</b>	ELU5	304.69	84.73	270.31	41.51	-2.38	7.61	-13.35	7.09	<b>S7.2I</b>	ELS3	299.86	-757.63	-24.59	-5.75	7.02	-1.88	-16.50	-7.26
<b>S6.6I</b>	ELU5	300.03	61.40	239.87	8.08	-9.57	4.40	-13.35	7.09	<b>S7.2I</b>	ELS3	321.91	-647.33	-7.00	35.47	12.12	6.71	-16.50	-7.26
<b>S6.6I</b>	ELU5	-118.12	-22.04	26.00	7.84	5.64	4.12	-13.35	7.09	<b>S7.3D</b>	ELU5	490.86	-775.02	-40.65	41.51	3.44	-4.15	-23.21	20.85
<b>S6.6I</b>	ELS3	197.84	87.76	228.89	36.63	-3.63	5.61	-11.70	6.82	<b>S7.3D</b>	ELU5	499.23	-733.20	57.68	-17.62	-8.43	-1.38	-23.21	20.85
<b>S6.6I</b>	ELS3	193.84	67.76	201.70	7.32	-9.92	2.99	-11.70	6.82	<b>S7.3D</b>	ELU5	376.36	-757.78	62.69	-4.91	35.64	-1.78	-23.21	20.85
<b>S6.6I</b>	ELS3	-196.74	-10.20	22.63	7.58	4.71	2.75	-11.70	6.82	<b>S7.3D</b>	ELS3	419.87	-559.55	-21.89	34.18	0.80	-3.02	-19.18	15.73
<b>S6.6I</b>	ELS3	-192.74	9.81	49.82	36.81	10.78	5.37	-11.70	6.82	<b>S7.3D</b>	ELS3	428.52	-516.27	54.65	-14.65	-9.24	-0.63	-19.18	15.73
<b>S7.1D</b>	ELU5	145.61	-1136.03	-45.43	55.37	34.44	10.70	-18.14	-5.81	<b>S7.3D</b>	ELS3	342.25	-533.52	48.58	-4.74	24.00	-1.11	-19.18	15.73



<b>S7.3D</b>	ELS3	333.60	-576.80	-27.96	42.45	34.47	-3.49	-19.18	15.73	<b>S7.5I</b>	ELS3	1095.72	317.08	27.90	-22.11	-12.86	2.89	-24.67	3.11
<b>S7.3I</b>	ELU5	396.08	-735.50	41.13	49.26	44.07	4.48	-21.75	-20.12	<b>S7.5I</b>	ELS3	334.50	164.61	288.89	-21.99	-6.28	1.67	-24.67	3.11
<b>S7.3I</b>	ELU5	408.06	-675.59	-35.05	-4.32	32.48	1.53	-21.75	-20.12	<b>S7.5I</b>	ELS3	300.51	-5.34	455.58	39.26	7.80	3.29	-24.67	3.11
<b>S7.3I</b>	ELU5	515.38	-654.13	-39.90	-16.71	-10.12	1.16	-21.75	-20.12	<b>S7.6D</b>	ELU5	186.37	62.20	-39.93	47.21	13.41	-4.35	-28.32	-8.13
<b>S7.3I</b>	ELU5	503.39	-714.04	36.28	38.59	1.08	4.10	-21.75	-20.12	<b>S7.6D</b>	ELU5	182.63	43.48	-87.67	-23.39	0.14	-4.14	-28.32	-8.13
<b>S7.3I</b>	ELS3	337.28	-570.48	28.84	42.14	33.87	3.45	-19.07	-15.46	<b>S7.6D</b>	ELU5	410.15	88.84	-244.70	-26.84	-17.28	-3.61	-28.32	-8.13
<b>S7.3I</b>	ELS3	346.16	-526.09	-46.44	-4.77	23.49	1.06	-19.07	-15.46	<b>S7.6D</b>	ELU5	413.89	107.56	-196.97	44.23	-3.76	-3.83	-28.32	-8.13
<b>S7.3I</b>	ELS3	431.52	-509.03	-52.66	-14.56	-9.20	0.60	-19.07	-15.46	<b>S7.6D</b>	ELS3	115.34	53.90	-28.15	38.28	11.89	-3.04	-23.09	-8.16
<b>S7.3I</b>	ELS3	422.64	-553.42	22.62	33.96	0.77	2.99	-19.07	-15.46	<b>S7.6D</b>	ELS3	113.27	43.58	-67.23	-19.29	0.99	-2.66	-23.09	-8.16
<b>S7.4D</b>	ELU5	1135.28	-652.08	196.56	-27.68	-26.40	-4.86	-28.11	27.37	<b>S7.6D</b>	ELS3	313.05	83.43	-186.03	-22.54	-16.46	-2.28	-23.09	-8.16
<b>S7.4D</b>	ELU5	489.68	-780.93	-33.82	-14.56	31.47	-2.70	-28.11	27.37	<b>S7.6D</b>	ELS3	315.11	93.75	-146.96	35.41	-5.38	-2.66	-23.09	-8.16
<b>S7.4D</b>	ELU5	594.64	-256.16	86.99	54.30	42.82	-2.72	-28.11	27.37	<b>S7.6I</b>	ELU5	451.11	91.68	173.29	40.09	-4.37	3.99	-26.03	8.62
<b>S7.4D</b>	ELU5	1240.23	-127.31	317.37	44.18	-15.76	-4.88	-28.11	27.37	<b>S7.6I</b>	ELU5	448.26	77.41	217.54	-25.25	-16.80	3.35	-26.03	8.62
<b>S7.4D</b>	ELS3	937.98	-477.20	159.13	-22.19	-19.65	-3.26	-23.03	18.48	<b>S7.6I</b>	ELU5	256.70	39.22	77.34	-22.05	1.64	3.83	-26.03	8.62
<b>S7.4D</b>	ELS3	415.48	-581.51	-5.09	-12.79	19.37	-1.59	-23.03	18.48	<b>S7.6I</b>	ELU5	259.55	53.49	33.09	42.86	13.85	4.47	-26.03	8.62
<b>S7.4D</b>	ELS3	500.77	-155.04	78.74	43.64	28.80	-1.97	-23.03	18.48	<b>S7.6I</b>	ELS3	320.20	93.08	145.58	35.05	-5.44	2.66	-22.91	8.16
<b>S7.4D</b>	ELS3	1023.28	-50.73	242.96	36.62	-10.80	-3.64	-23.03	18.48	<b>S7.6I</b>	ELS3	318.20	83.07	184.38	-22.46	-16.44	2.24	-22.91	8.16
<b>S7.4I</b>	ELU5	1216.71	-92.59	-266.89	40.85	-13.98	4.95	-25.96	-23.66	<b>S7.6I</b>	ELS3	122.16	43.96	66.73	-19.25	1.02	2.61	-22.91	8.16
<b>S7.4I</b>	ELU5	603.20	-215.03	-43.00	49.98	36.59	2.78	-25.96	-23.66	<b>S7.6I</b>	ELS3	124.16	53.98	27.93	37.88	11.84	3.03	-22.91	8.16
<b>S7.4I</b>	ELU5	504.83	-706.87	33.19	-13.69	26.46	2.39	-25.96	-23.66	<b>S8.1D</b>	ELU5	172.22	-945.36	45.16	5.08	25.51	-10.40	3.12	-1.79
<b>S7.4I</b>	ELU5	1118.34	-584.43	-190.70	-25.40	-23.65	4.56	-25.96	-23.66	<b>S8.1D</b>	ELU5	157.85	-1017.21	39.61	13.76	27.89	6.61	3.12	-1.79
<b>S7.4I</b>	ELS3	1022.74	-47.82	-238.19	36.32	-10.70	3.63	-22.86	-18.21	<b>S8.1D</b>	ELU5	-22.88	-1053.31	-0.19	29.48	25.36	8.10	3.12	-1.79
<b>S7.4I</b>	ELS3	503.01	-151.58	-74.89	43.28	28.32	1.96	-22.86	-18.21	<b>S8.1D</b>	ELU5	-8.51	-981.47	5.36	22.54	20.42	-8.91	3.12	-1.79
<b>S7.4I</b>	ELS3	418.26	-575.35	5.77	-12.74	18.98	1.54	-22.86	-18.21	<b>S8.1D</b>	ELS3	173.53	-704.95	34.89	4.23	16.18	-8.14	2.65	0.47
<b>S7.4I</b>	ELS3	937.98	-471.59	-157.52	-22.05	-19.47	3.21	-22.86	-18.21	<b>S8.1D</b>	ELS3	162.53	-759.93	32.31	11.61	17.90	5.63	2.65	0.47
<b>S7.5D</b>	ELU5	387.34	-25.19	-594.85	48.94	10.13	-4.56	-30.48	-3.32	<b>S8.1D</b>	ELS3	1.33	-792.14	5.19	25.13	19.98	6.68	2.65	0.47
<b>S7.5D</b>	ELU5	427.49	175.53	-400.53	-26.75	-7.19	-2.96	-30.48	-3.32	<b>S8.1D</b>	ELS3	12.33	-737.16	7.77	19.21	16.09	-7.09	2.65	0.47
<b>S7.5D</b>	ELU5	1337.26	357.80	-43.28	-27.06	-14.21	-4.42	-30.48	-3.32	<b>S8.1I</b>	ELU5	-2.01	-948.99	-12.12	23.31	24.10	8.43	3.11	-2.63
<b>S7.5D</b>	ELU5	1297.11	157.08	-237.60	49.76	3.04	-6.03	-30.48	-3.32	<b>S8.1I</b>	ELU5	-17.27	-1025.30	-11.07	30.18	29.15	-8.42	3.11	-2.63
<b>S7.5D</b>	ELS3	295.16	-5.98	-458.88	39.63	7.88	-3.30	-24.86	-3.12	<b>S8.1I</b>	ELU5	170.26	-987.82	-30.74	12.79	22.17	-6.92	3.11	-2.63
<b>S7.5D</b>	ELS3	329.31	164.75	-292.12	-22.08	-6.31	-1.71	-24.86	-3.12	<b>S8.1I</b>	ELU5	185.52	-911.50	-31.80	4.08	19.90	9.93	3.11	-2.63
<b>S7.5D</b>	ELS3	1097.13	318.54	-28.59	-22.24	-12.90	-2.94	-24.86	-3.12	<b>S8.1I</b>	ELS3	13.55	-731.03	-7.57	19.33	16.74	7.03	2.66	-1.27
<b>S7.5D</b>	ELS3	1062.99	147.82	-195.35	40.42	1.21	-4.53	-24.86	-3.12	<b>S8.1I</b>	ELS3	2.52	-786.19	-5.20	25.26	20.63	-6.76	2.66	-1.27
<b>S7.5I</b>	ELU5	1264.00	143.88	211.45	45.68	2.23	6.01	-28.04	3.41	<b>S8.1I</b>	ELS3	164.98	-753.73	-31.75	11.38	16.84	-5.70	2.66	-1.27
<b>S7.5I</b>	ELU5	1302.09	334.32	20.62	-24.99	-13.65	4.12	-28.04	3.41	<b>S8.1I</b>	ELS3	176.01	-698.57	-34.13	3.99	15.11	8.08	2.66	-1.27
<b>S7.5I</b>	ELU5	466.15	166.84	352.96	-24.96	-6.42	2.76	-28.04	3.41	<b>S8.2D</b>	ELU5	313.32	-1041.37	13.45	12.07	16.72	4.01	3.58	7.29
<b>S7.5I</b>	ELU5	428.06	-23.60	543.79	44.65	9.52	4.65	-28.04	3.41	<b>S8.2D</b>	ELU5	346.61	-874.92	32.48	20.66	17.59	-4.67	3.58	7.29
<b>S7.5I</b>	ELS3	1061.73	147.13	194.59	40.07	1.14	4.51	-24.67	3.11	<b>S8.2D</b>	ELU5	179.63	-908.33	50.39	15.26	32.24	-5.93	3.58	7.29



<b>S8.2D</b>	ELU5	146.34	-1074.78	31.36	5.96	33.10	2.75	3.58	7.29	<b>S8.4I</b>	ELU5	689.07	-210.57	102.60	27.43	35.56	0.75	6.71	-25.36
<b>S8.2D</b>	ELS3	289.48	-768.47	21.99	9.70	9.61	3.60	3.05	6.50	<b>S8.4I</b>	ELU5	799.80	-188.43	102.03	14.09	-18.19	0.20	6.71	-25.36
<b>S8.2D</b>	ELS3	319.16	-620.06	38.40	17.06	10.09	-3.16	3.05	6.50	<b>S8.4I</b>	ELU5	704.10	-666.95	97.96	-3.08	-20.96	3.13	6.71	-25.36
<b>S8.2D</b>	ELS3	185.14	-646.87	44.70	13.19	23.22	-4.39	3.05	6.50	<b>S8.4I</b>	ELS3	492.70	-560.40	59.79	8.94	24.74	2.69	5.92	-19.48
<b>S8.2D</b>	ELS3	155.46	-795.28	28.29	5.30	24.11	2.37	3.05	6.50	<b>S8.4I</b>	ELS3	579.54	-126.21	52.90	23.36	26.36	0.02	5.92	-19.48
<b>S8.2I</b>	ELU5	165.92	-1009.50	-25.25	5.99	32.17	-2.93	3.55	-8.70	<b>S8.4I</b>	ELS3	655.66	-110.94	95.32	12.72	-14.80	-0.73	5.92	-19.48
<b>S8.2I</b>	ELU5	201.73	-830.45	-37.96	15.17	31.33	5.33	3.55	-8.70	<b>S8.4I</b>	ELS3	568.82	-545.13	102.21	-2.42	-16.97	1.94	5.92	-19.48
<b>S8.2I</b>	ELU5	363.04	-798.18	-33.31	19.58	13.62	4.03	3.55	-8.70	<b>S8.5D</b>	ELU5	733.60	236.83	-334.73	-1.23	-1.21	-4.73	7.87	-3.98
<b>S8.2I</b>	ELU5	327.23	-977.24	-20.59	11.04	12.89	-4.22	3.55	-8.70	<b>S8.5D</b>	ELU5	687.10	4.34	-297.74	18.36	5.40	-3.05	7.87	-3.98
<b>S8.2I</b>	ELS3	158.54	-785.89	-27.92	5.17	23.60	-2.44	3.06	-6.34	<b>S8.5D</b>	ELU5	856.91	38.38	-207.99	18.46	-2.79	-0.97	7.87	-3.98
<b>S8.2I</b>	ELS3	188.39	-636.68	-43.93	13.07	22.71	4.32	3.06	-6.34	<b>S8.5D</b>	ELU5	903.40	270.86	-244.98	-1.30	-9.94	-2.64	7.87	-3.98
<b>S8.2I</b>	ELS3	322.29	-609.89	-37.81	17.00	9.91	3.09	3.06	-6.34	<b>S8.5D</b>	ELS3	566.26	212.19	-236.28	-1.80	-1.59	-3.16	6.92	-3.58
<b>S8.2I</b>	ELS3	292.44	-759.11	-21.79	9.64	9.43	-3.66	3.06	-6.34	<b>S8.5D</b>	ELS3	529.95	30.66	-200.43	15.44	3.98	-1.37	6.92	-3.58
<b>S8.3D</b>	ELU5	588.66	-715.24	-10.56	6.10	-5.13	-2.53	4.95	21.75	<b>S8.5D</b>	ELS3	689.88	62.68	-168.64	15.81	-3.39	0.29	6.92	-3.58
<b>S8.3D</b>	ELU5	574.32	-786.95	-8.66	18.83	0.30	-2.53	4.95	21.75	<b>S8.5D</b>	ELS3	726.19	244.21	-204.49	-1.58	-9.44	-1.49	6.92	-3.58
<b>S8.3D</b>	ELU5	355.43	-830.79	49.04	27.71	46.51	-0.48	4.95	21.75	<b>S8.5I</b>	ELU5	887.75	251.29	214.09	-1.58	-9.78	2.49	7.74	4.04
<b>S8.3D</b>	ELU5	369.77	-759.08	47.15	15.70	41.21	-0.48	4.95	21.75	<b>S8.5I</b>	ELU5	845.99	42.51	176.26	17.87	-2.98	0.73	7.74	4.04
<b>S8.3D</b>	ELS3	503.45	-501.22	-0.22	4.79	-6.35	-1.57	4.27	16.31	<b>S8.5I</b>	ELU5	698.65	12.98	253.03	17.71	5.36	2.62	7.74	4.04
<b>S8.3D</b>	ELS3	493.90	-548.98	10.48	15.76	-2.01	-1.26	4.27	16.31	<b>S8.5I</b>	ELU5	740.41	221.76	290.85	-1.58	-0.93	4.39	7.74	4.04
<b>S8.3D</b>	ELS3	326.68	-582.47	56.18	22.69	32.62	0.26	4.27	16.31	<b>S8.5I</b>	ELS3	726.46	243.08	203.46	-1.64	-9.43	1.46	6.92	3.57
<b>S8.3D</b>	ELS3	336.23	-534.72	45.48	12.34	28.42	-0.05	4.27	16.31	<b>S8.5I</b>	ELS3	690.49	63.23	167.45	15.73	-3.41	-0.34	6.92	3.57
<b>S8.3I</b>	ELU5	386.70	-679.86	-37.96	14.74	37.38	0.19	4.92	-20.78	<b>S8.5I</b>	ELS3	533.51	31.81	197.14	15.35	3.95	1.31	6.92	3.57
<b>S8.3I</b>	ELU5	371.63	-755.22	-56.41	26.64	42.91	-0.09	4.92	-20.78	<b>S8.5I</b>	ELS3	569.48	211.66	233.16	-1.87	-1.59	3.11	6.92	3.57
<b>S8.3I</b>	ELU5	588.84	-711.71	7.24	17.92	-1.31	2.09	4.92	-20.78	<b>S8.6D</b>	ELU5	604.17	127.72	-173.31	2.46	5.94	-4.54	7.09	-8.95
<b>S8.3I</b>	ELU5	603.91	-636.35	25.68	5.24	-6.82	2.36	4.92	-20.78	<b>S8.6D</b>	ELU5	568.85	-48.84	-160.34	20.10	11.36	-5.92	7.09	-8.95
<b>S8.3I</b>	ELS3	338.75	-527.57	-44.09	12.20	27.85	0.01	4.27	-16.03	<b>S8.6D</b>	ELU5	680.95	-26.42	-165.91	14.97	-7.64	-4.57	7.09	-8.95
<b>S8.3I</b>	ELS3	329.25	-575.06	-55.91	22.55	32.07	-0.34	4.27	-16.03	<b>S8.6D</b>	ELU5	716.26	150.13	-178.88	-2.83	-13.12	-3.19	7.09	-8.95
<b>S8.3I</b>	ELS3	496.47	-541.57	-10.26	15.70	-1.97	1.18	4.27	-16.03	<b>S8.6D</b>	ELS3	430.64	107.00	-136.63	1.00	5.55	-2.98	6.24	-8.77
<b>S8.3I</b>	ELS3	505.97	-494.07	1.55	4.72	-6.32	1.53	4.27	-16.03	<b>S8.6D</b>	ELS3	403.21	-30.19	-127.66	16.55	10.10	-3.61	6.24	-8.77
<b>S8.4D</b>	ELU5	701.54	-738.48	-107.05	-3.24	-23.59	-3.37	6.78	29.26	<b>S8.6D</b>	ELS3	522.55	-6.32	-121.27	12.25	-8.52	-2.56	6.24	-8.77
<b>S8.4D</b>	ELU5	802.68	-232.75	-103.47	14.07	-20.83	-0.32	6.78	29.26	<b>S8.6D</b>	ELS3	549.99	130.87	-130.23	-3.43	-13.14	-1.94	6.24	-8.77
<b>S8.4D</b>	ELU5	680.26	-257.24	-98.08	29.22	41.09	-0.99	6.78	29.26	<b>S8.6I</b>	ELU5	722.52	132.32	155.46	-3.24	-12.97	2.98	7.00	9.37
<b>S8.4D</b>	ELU5	579.11	-762.97	-101.67	12.69	38.99	-4.04	6.78	29.26	<b>S8.6I</b>	ELU5	690.91	-25.75	143.47	14.34	-7.76	4.00	7.00	9.37
<b>S8.4D</b>	ELS3	567.13	-551.07	-101.46	-2.39	-17.13	-1.98	5.92	19.76	<b>S8.6I</b>	ELU5	593.81	-45.17	142.63	19.28	12.14	5.19	7.00	9.37
<b>S8.4D</b>	ELS3	654.46	-114.44	-94.25	12.75	-14.98	0.69	5.92	19.76	<b>S8.6I</b>	ELU5	625.43	112.91	154.62	1.86	6.99	4.18	7.00	9.37
<b>S8.4D</b>	ELS3	577.72	-129.84	-52.57	23.52	26.78	-0.07	5.92	19.76	<b>S8.6I</b>	ELS3	553.17	130.11	128.68	-3.50	-13.14	1.90	6.24	8.77
<b>S8.4D</b>	ELS3	490.40	-566.47	-59.77	9.09	25.19	-2.74	5.92	19.76	<b>S8.6I</b>	ELS3	525.96	-5.95	119.75	12.17	-8.54	2.50	6.24	8.77
<b>S8.4I</b>	ELU5	593.37	-689.09	98.53	11.11	33.19	3.68	6.71	-25.36	<b>S8.6I</b>	ELS3	409.22	-29.30	126.60	16.44	10.08	3.53	6.24	8.77



<b>S8.6I</b>	ELS3	436.43	106.76	135.54	0.90	5.55	2.93	6.24	8.77									
<b>S9.1D</b>	ELU5	152.00	-1018.34	14.39	26.81	30.37	6.95	-6.34	-4.69									
<b>S9.1D</b>	ELU5	183.30	-861.81	17.00	10.15	28.45	-7.27	-6.34	-4.69									
<b>S9.1D</b>	ELU5	82.87	-881.90	20.72	-5.57	17.36	-7.18	-6.34	-4.69									
<b>S9.1D</b>	ELU5	51.56	-1038.43	18.11	9.52	21.50	7.04	-6.34	-4.69									
<b>S9.1D</b>	ELS3	168.55	-758.70	22.13	22.77	19.99	5.93	-5.57	-1.79									
<b>S9.1D</b>	ELS3	193.58	-633.52	25.46	8.20	17.90	-5.48	-5.57	-1.79									
<b>S9.1D</b>	ELS3	91.53	-653.93	18.96	-3.58	13.23	-5.61	-5.57	-1.79									
<b>S9.1D</b>	ELS3	66.49	-779.11	15.63	9.75	17.05	5.80	-5.57	-1.79									
<b>S9.1I</b>	ELU5	57.17	-1010.41	-16.41	10.29	25.37	-7.38	-6.29	0.04									
<b>S9.1I</b>	ELU5	88.51	-853.71	-19.67	-4.74	21.42	6.57	-6.29	0.04									
<b>S9.1I</b>	ELU5	192.83	-832.85	-28.02	8.79	22.52	6.70	-6.29	0.04									
<b>S9.1I</b>	ELU5	161.49	-989.55	-24.77	25.26	24.46	-7.24	-6.29	0.04									
<b>S9.1I</b>	ELS3	67.68	-773.16	-15.95	9.87	17.69	-5.88	-5.57	0.99									
<b>S9.1I</b>	ELS3	92.72	-647.98	-19.20	-3.44	13.88	5.52	-5.57	0.99									
<b>S9.1I</b>	ELS3	195.50	-627.43	-25.55	8.00	16.84	5.40	-5.57	0.99									
<b>S9.1I</b>	ELS3	170.47	-752.61	-22.30	22.54	18.94	-6.00	-5.57	0.99									
<b>S9.2D</b>	ELU5	352.01	-873.84	61.26	17.01	17.05	-6.21	-6.83	8.54									
<b>S9.2D</b>	ELU5	347.63	-895.74	72.26	0.15	16.14	1.00	-6.83	8.54									
<b>S9.2D</b>	ELU5	169.39	-931.36	39.55	10.89	34.91	3.19	-6.83	8.54									
<b>S9.2D</b>	ELU5	173.77	-909.47	28.55	28.22	34.63	-4.02	-6.83	8.54									
<b>S9.2D</b>	ELS3	333.52	-617.19	64.55	14.99	9.96	-4.40	-5.89	7.35									
<b>S9.2D</b>	ELS3	329.16	-638.99	81.41	0.47	8.72	1.33	-5.89	7.35									
<b>S9.2D</b>	ELS3	186.80	-667.44	53.63	9.21	24.85	2.89	-5.89	7.35									
<b>S9.2D</b>	ELS3	191.16	-645.64	36.77	24.18	25.12	-2.85	-5.89	7.35									
<b>S9.2I</b>	ELU5	192.97	-832.19	-34.32	27.54	33.57	3.36	-6.61	-9.92									
<b>S9.2I</b>	ELU5	186.90	-862.52	-54.01	10.66	34.16	-3.39	-6.61	-9.92									
<b>S9.2I</b>	ELU5	365.01	-826.92	-77.62	-0.10	12.35	-1.13	-6.61	-9.92									
<b>S9.2I</b>	ELU5	371.08	-796.58	-57.92	16.12	13.17	5.62	-6.61	-9.92									
<b>S9.2I</b>	ELS3	193.88	-635.56	-36.40	24.04	24.60	2.78	-5.87	-7.19									
<b>S9.2I</b>	ELS3	189.41	-657.89	-53.94	9.13	24.36	-2.98	-5.87	-7.19									
<b>S9.2I</b>	ELS3	332.14	-629.37	-81.55	0.44	8.57	-1.42	-5.87	-7.19									
<b>S9.2I</b>	ELS3	336.61	-607.03	-64.02	14.89	9.79	4.33	-5.87	-7.19									
<b>S9.3D</b>	ELU5	532.57	-795.37	85.90	16.52	0.32	-1.45	-7.85	20.98									
<b>S9.3D</b>	ELU5	563.15	-642.48	45.46	-3.52	-3.73	-2.98	-7.85	20.98									
<b>S9.3D</b>	ELU5	391.42	-676.83	41.89	4.22	40.66	-3.24	-7.85	20.98									
<b>S9.3D</b>	ELU5	360.84	-829.72	82.33	23.48	45.19	-1.71	-7.85	20.98									
<b>S9.3D</b>	ELS3	448.62	-558.09	98.48	14.60	-1.55	-0.26	-6.53	15.34									
<b>S9.3D</b>	ELS3	476.35	-419.48	71.58	-2.03	-5.44	-1.35	-6.53	15.34									
<b>S9.3D</b>	ELS3	368.76	-440.99	58.43	3.66	26.95	-1.96	-6.53	15.34									
<b>S9.3D</b>	ELS3	341.04	-579.60	85.32	19.72	31.34	-0.88	-6.53	15.34									
<b>S9.3I</b>	ELU5	379.67	-753.61	-84.74	22.37	41.42	1.25	-7.36	-19.89									
<b>S9.3I</b>	ELU5	412.00	-591.99	-42.77	4.24	37.06	2.96	-7.36	-19.89									
<b>S9.3I</b>	ELU5	568.03	-560.79	-49.44	-2.75	-5.07	2.61	-7.36	-19.89									
<b>S9.3I</b>	ELU5	535.71	-722.41	-91.41	15.96	-1.07	0.90	-7.36	-19.89									
<b>S9.3I</b>	ELS3	343.57	-572.19	-85.07	19.53	30.77	0.79	-6.49	-15.06									
<b>S9.3I</b>	ELS3	371.21	-434.02	-57.88	3.57	26.42	1.89	-6.49	-15.06									
<b>S9.3I</b>	ELS3	478.06	-412.66	-70.98	-1.98	-5.37	1.28	-6.49	-15.06									
<b>S9.3I</b>	ELS3	450.42	-550.83	-98.16	14.54	-1.51	0.18	-6.49	-15.06									
<b>S9.4D</b>	ELU5	493.35	-294.78	72.00	18.35	-19.08	-1.15	-9.09	27.47									
<b>S9.4D</b>	ELU5	478.40	-369.53	252.57	-4.76	-22.24	-5.13	-9.09	27.47									
<b>S9.4D</b>	ELU5	623.56	-340.45	179.20	3.20	36.10	-4.22	-9.09	27.47									
<b>S9.4D</b>	ELU5	638.51	-265.70	-1.37	25.60	39.47	-0.24	-9.09	27.47									
<b>S9.4D</b>	ELS3	381.16	-169.23	31.52	15.87	-13.22	0.08	-7.24	17.91									
<b>S9.4D</b>	ELS3	373.39	-208.06	201.47	-2.53	-16.13	-2.46	-7.24	17.91									
<b>S9.4D</b>	ELS3	524.68	-177.81	206.23	2.74	21.79	-2.09	-7.24	17.91									
<b>S9.4D</b>	ELS3	532.45	-138.97	36.28	20.60	25.06	0.46	-7.24	17.91									
<b>S9.4I</b>	ELU5	635.93	-221.32	2.74	23.90	33.88	0.07	-8.25	-23.66									
<b>S9.4I</b>	ELU5	622.63	-287.79	-181.02	3.51	30.95	3.46	-8.25	-23.66									
<b>S9.4I</b>	ELU5	494.03	-313.55	-236.98	-3.34	-19.32	4.36	-8.25	-23.66									
<b>S9.4I</b>	ELU5	507.33	-247.07	-53.22	17.59	-16.53	0.96	-8.25	-23.66									
<b>S9.4I</b>	ELS3	533.49	-135.50	-35.85	20.43	24.64	-0.51	-7.18	-17.64									
<b>S9.4I</b>	ELS3	525.74	-174.25	-206.19	2.72	21.41	2.00	-7.18	-17.64									
<b>S9.4I</b>	ELS3	376.29	-204.13	-199.37	-2.47	-15.93	2.38	-7.18	-17.64									
<b>S9.4I</b>	ELS3	384.04	-165.39	-29.02	15.76	-13.06	-0.13	-7.18	-17.64									
<b>S9.5D</b>	ELU5	968.80	60.77	-307.47	26.76	6.43	-2.18	-9.79	-3.59									
<b>S9.5D</b>	ELU5	953.24	-17.08	-356.24	2.39	1.89	-4.92	-9.79	-3.59									
<b>S9.5D</b>	ELU5	532.07	-101.19	-138.97	-2.04	-5.64	-4.60	-9.79	-3.59									
<b>S9.5D</b>	ELU5	547.64	-23.35	-90.20	22.56	-1.31	-1.86	-9.79	-3.59									
<b>S9.5D</b>	ELS3	739.03	72.54	-206.84	21.27	4.54	-0.64	-7.60	-3.15									
<b>S9.5D</b>	ELS3	729.52	24.96	-244.08	2.35	0.90	-2.26	-7.60	-3.15									
<b>S9.5D</b>	ELS3	407.11	-39.46	-126.20	-0.73	-5.69	-2.07	-7.60	-3.15									
<b>S9.5D</b>	ELS3	416.63	8.12	-88.97	18.38	-2.26	-0.45	-7.60	-3.15									
<b>S9.5I</b>	ELU5	553.57	-15.87	74.52	21.06	-1.69	1.53	-8.80	3.65									
<b>S9.5I</b>	ELU5	540.71	-80.17	120.46	-1.05	-5.56	3.94	-8.80	3.65									
<b>S9.5I</b>	ELU5	931.12	-2.19	305.90	3.06	2.11	4.24	-8.80	3.65									





<b>S9.5I</b>	ELU5	943.98	62.12	259.96	24.96	6.18	1.83	-8.80	3.65	<b>D17.3D</b>	ELU5	592.20	-546.74	21.50	33.70	1.08	0.79	17.09	22.57
<b>S9.5I</b>	ELS3	418.92	9.01	88.91	18.24	-2.30	0.40	-7.53	3.15	<b>D17.3D</b>	ELU5	400.05	-585.16	41.71	38.93	49.03	-0.77	17.09	22.57
<b>S9.5I</b>	ELS3	409.49	-38.18	125.69	-0.70	-5.70	2.00	-7.53	3.15	<b>D17.3D</b>	ELU5	364.85	-761.13	-37.91	-3.07	42.77	2.73	17.09	22.57
<b>S9.5I</b>	ELS3	730.91	26.05	240.11	2.36	0.90	2.18	-7.53	3.15	<b>D17.3D</b>	ELS3	448.36	-457.53	-89.61	-7.90	-7.01	1.79	14.70	16.15
<b>S9.5I</b>	ELS3	740.35	73.23	203.34	21.10	4.50	0.59	-7.53	3.15	<b>D17.3D</b>	ELS3	471.65	-341.05	-13.18	29.50	-0.83	-0.05	14.70	16.15
<b>S9.6D</b>	ELU5	893.61	16.22	-53.51	24.34	12.07	-5.34	-9.53	-8.37	<b>D17.3D</b>	ELS3	367.22	-361.93	20.98	33.86	33.66	-0.77	14.70	16.15
<b>S9.6D</b>	ELU5	891.92	7.76	16.41	0.53	7.65	-2.14	-9.53	-8.37	<b>D17.3D</b>	ELS3	343.92	-478.40	-55.45	-2.30	27.20	1.07	14.70	16.15
<b>S9.6D</b>	ELU5	960.95	21.50	-107.59	0.22	-10.19	-1.93	-9.53	-8.37	<b>D17.4D</b>	ELU5	1396.06	-521.36	-115.21	-22.92	-26.51	2.75	21.48	30.36
<b>S9.6D</b>	ELU5	962.64	29.96	-177.51	24.09	-5.69	-5.13	-9.53	-8.37	<b>D17.4D</b>	ELU5	1488.86	-57.39	-319.71	31.85	-18.31	6.11	21.48	30.36
<b>S9.6D</b>	ELS3	653.53	19.96	-44.89	19.05	10.47	-3.16	-7.39	-8.26	<b>D17.4D</b>	ELU5	656.81	-223.72	-90.99	47.13	46.11	4.20	21.48	30.36
<b>S9.6D</b>	ELS3	652.60	15.31	8.67	0.59	7.02	-0.04	-7.39	-8.26	<b>D17.4D</b>	ELU5	564.01	-687.68	113.51	-5.56	38.26	0.84	21.48	30.36
<b>S9.6D</b>	ELS3	730.70	30.89	-76.05	0.24	-10.56	0.12	-7.39	-8.26	<b>D17.4D</b>	ELS3	1047.86	-290.55	-93.53	-17.81	-19.92	0.05	17.81	19.57
<b>S9.6D</b>	ELS3	731.63	35.53	-129.60	18.77	-7.08	-3.00	-7.39	-8.26	<b>D17.4D</b>	ELS3	1113.42	37.23	-224.82	27.56	-12.35	3.49	17.81	19.57
<b>S9.6I</b>	ELU5	936.23	23.35	152.38	22.32	-6.01	4.48	-8.57	8.83	<b>D17.4D</b>	ELS3	523.73	-80.68	-131.46	38.56	29.33	2.58	17.81	19.57
<b>S9.6I</b>	ELU5	935.23	18.37	89.12	0.84	-10.01	1.57	-8.57	8.83	<b>D17.4D</b>	ELS3	458.17	-408.45	-0.18	-5.18	21.68	-0.86	17.81	19.57
<b>S9.6I</b>	ELU5	874.40	6.26	-17.31	1.65	8.81	1.79	-8.57	8.83	<b>D17.5D</b>	ELU5	808.64	247.29	106.88	-17.59	-5.01	4.18	23.57	-3.78
<b>S9.6I</b>	ELU5	875.40	11.24	45.95	23.07	12.75	4.70	-8.57	8.83	<b>D17.5D</b>	ELU5	767.17	39.94	233.80	40.98	8.92	1.85	23.57	-3.78
<b>S9.6I</b>	ELS3	732.79	35.45	127.87	18.60	-7.12	2.93	-7.32	8.26	<b>D17.5D</b>	ELU5	1539.22	194.42	-21.57	37.40	1.02	3.48	23.57	-3.78
<b>S9.6I</b>	ELS3	731.92	31.09	74.71	0.25	-10.56	-0.18	-7.32	8.26	<b>D17.5D</b>	ELU5	1580.69	401.77	-148.49	-21.94	-13.19	5.80	23.57	-3.78
<b>S9.6I</b>	ELS3	655.78	15.90	-8.73	0.62	7.03	-0.02	-7.32	8.26	<b>D17.5D</b>	ELS3	574.24	237.69	72.96	-14.77	-5.11	1.00	19.18	-3.14
<b>S9.6I</b>	ELS3	656.65	20.27	44.42	18.90	10.45	3.09	-7.32	8.26	<b>D17.5D</b>	ELS3	540.79	70.42	169.56	32.88	6.31	0.17	19.18	-3.14
<b>D16.2D</b>	ELU5	322.74	-936.94	-32.86	20.28	20.32	5.09	-6.88	9.26	<b>D17.5D</b>	ELS3	1144.20	191.15	31.71	31.03	-0.28	1.54	19.18	-3.14
<b>D16.2D</b>	ELU5	339.69	-852.21	-26.97	2.74	14.91	-0.14	-6.88	9.26	<b>D17.5D</b>	ELS3	1177.65	358.42	-64.89	-17.26	-11.87	2.36	19.18	-3.14
<b>D16.2D</b>	ELU5	126.32	-894.88	-3.17	1.68	34.33	-1.73	-6.88	9.26	<b>D17.6D</b>	ELU5	722.76	79.43	7.43	-13.69	3.85	4.62	21.59	-8.48
<b>D16.2D</b>	ELU5	109.37	-979.61	-9.06	18.54	40.30	3.50	-6.88	9.26	<b>D17.6D</b>	ELU5	726.63	98.76	-50.24	40.09	12.49	4.35	21.59	-8.48
<b>D16.2D</b>	ELS3	338.33	-581.88	-66.88	16.05	10.65	1.76	-2.69	7.38	<b>D17.6D</b>	ELU5	781.11	109.63	39.91	36.44	-5.50	2.88	21.59	-8.48
<b>D16.2D</b>	ELS3	340.42	-571.48	-49.07	9.11	8.84	-1.31	-2.69	7.38	<b>D17.6D</b>	ELU5	777.25	90.31	97.58	-17.78	-14.25	3.14	21.59	-8.48
<b>D16.2D</b>	ELS3	199.95	-599.57	-12.93	9.33	24.51	-1.66	-2.69	7.38	<b>D17.6D</b>	ELS3	474.32	70.62	15.25	-12.60	3.42	1.20	17.59	-8.25
<b>D16.2D</b>	ELS3	197.87	-609.97	-30.75	15.85	26.39	1.40	-2.69	7.38	<b>D17.6D</b>	ELS3	477.71	87.56	-32.74	31.21	10.59	2.21	17.59	-8.25
<b>D17.2D</b>	ELU5	346.93	-850.76	2.34	-5.99	14.01	-0.56	14.32	9.19	<b>D17.6D</b>	ELS3	546.98	101.40	33.76	28.93	-6.93	1.08	17.59	-8.25
<b>D17.2D</b>	ELU5	352.74	-821.69	-21.51	30.34	20.22	2.55	14.32	9.19	<b>D17.6D</b>	ELS3	543.59	84.46	81.75	-15.27	-14.16	0.08	17.59	-8.25
<b>D17.2D</b>	ELU5	172.65	-857.72	-44.41	36.91	39.88	1.96	14.32	9.19	<b>D18.3D</b>	ELU5	593.37	-546.49	56.22	8.66	-0.71	0.05	6.04	20.09
<b>D17.2D</b>	ELS3	324.68	-574.63	-14.00	-4.57	6.43	-1.47	12.78	7.79	<b>D18.3D</b>	ELU5	589.71	-564.81	68.48	23.92	2.15	3.52	6.04	20.09
<b>D17.2D</b>	ELS3	324.55	-575.27	-25.06	27.79	12.74	1.83	12.78	7.79	<b>D18.3D</b>	ELU5	441.83	-594.38	82.04	35.85	44.74	3.30	6.04	20.09
<b>D17.2D</b>	ELS3	194.95	-601.20	-27.43	34.06	29.48	1.90	12.78	7.79	<b>D18.3D</b>	ELU5	445.50	-576.06	69.77	20.87	42.20	-0.17	6.04	20.09
<b>D17.2D</b>	ELS3	195.08	-600.55	-16.37	2.50	22.82	-1.40	12.78	7.79	<b>D18.3D</b>	ELS3	462.95	-342.78	30.59	7.58	-3.16	-0.60	5.27	14.72
<b>D17.3D</b>	ELU5	557.01	-722.70	-58.13	-9.85	-5.31	4.29	17.09	22.57	<b>D18.3D</b>	ELS3	457.49	-370.11	44.72	20.85	-0.09	2.37	5.27	14.72
										<b>D18.3D</b>	ELS3	378.28	-385.94	71.01	30.04	31.15	2.62	5.27	14.72





<b>D18.3D</b>	ELS3	383.74	-358.61	56.88	16.94	28.23	-0.35	5.27	14.72	<b>S10.2I</b>	ELS3	221.41	-651.51	-75.97	18.92	27.68	-1.74	-13.34	-7.45
<b>D18.4D</b>	ELU5	696.20	-32.38	107.91	32.32	37.38	-1.18	7.31	25.02	<b>S10.2I</b>	ELS3	241.14	-552.87	-56.24	-13.81	19.75	3.18	-13.34	-7.45
<b>D18.4D</b>	ELU5	657.98	-223.47	-56.27	14.43	34.97	4.67	7.31	25.02	<b>S10.2I</b>	ELS3	346.29	-531.83	-39.40	-12.59	4.35	2.59	-13.34	-7.45
<b>D18.4D</b>	ELU5	487.37	-257.63	-151.96	9.37	-18.21	5.58	7.31	25.02	<b>S10.3D</b>	ELU5	611.68	-758.11	88.86	-25.73	-9.65	-2.54	-18.49	24.76
<b>D18.4D</b>	ELU5	525.59	-66.54	12.22	28.07	-15.90	-0.27	7.31	25.02	<b>S10.3D</b>	ELU5	342.60	-811.87	6.50	-13.16	43.44	-0.86	-18.49	24.76
<b>D18.4D</b>	ELS3	542.09	52.90	70.60	26.39	23.54	-1.15	6.05	16.01	<b>S10.3D</b>	ELU5	368.71	-681.34	-0.02	32.45	49.89	-2.24	-18.49	24.76
<b>D18.4D</b>	ELS3	515.03	-82.40	-87.69	11.56	20.84	2.83	6.05	16.01	<b>S10.3D</b>	ELU5	637.78	-627.58	82.34	21.22	-2.36	-3.91	-18.49	24.76
<b>D18.4D</b>	ELS3	339.04	-117.61	-119.35	8.53	-13.07	3.16	6.05	16.01	<b>S10.3D</b>	ELS3	515.95	-489.46	137.98	-20.28	-10.18	-0.15	-15.62	17.72
<b>D18.4D</b>	ELS3	366.10	17.69	38.94	23.97	-10.65	-0.82	6.05	16.01	<b>S10.3D</b>	ELS3	347.69	-523.05	53.85	-10.28	27.66	0.69	-15.62	17.72
<b>S10.1D</b>	ELU5	145.17	-874.71	18.27	-7.20	20.89	5.88	-13.72	-1.62	<b>S10.3D</b>	ELS3	363.91	-441.94	35.90	28.27	34.14	-1.22	-15.62	17.72
<b>S10.1D</b>	ELU5	146.27	-869.23	24.72	27.51	24.60	-6.13	-13.72	-1.62	<b>S10.3D</b>	ELS3	532.18	-408.35	120.03	19.33	-3.44	-2.07	-15.62	17.72
<b>S10.1D</b>	ELU5	195.66	-859.36	42.49	15.57	28.90	-7.76	-13.72	-1.62	<b>S10.3I</b>	ELU5	636.89	-547.04	-84.79	20.48	-3.28	3.58	-17.56	-23.03
<b>S10.1D</b>	ELU5	194.56	-864.85	36.04	-18.36	23.50	4.25	-13.72	-1.62	<b>S10.3I</b>	ELU5	385.28	-597.31	-10.48	31.31	45.33	1.94	-17.56	-23.03
<b>S10.1D</b>	ELS3	152.69	-630.73	25.85	-4.41	15.67	4.60	-12.21	0.77	<b>S10.3I</b>	ELU5	360.52	-721.12	-30.58	-12.10	39.27	0.38	-17.56	-23.03
<b>S10.1D</b>	ELS3	150.41	-642.16	29.92	26.46	19.80	-4.88	-12.21	0.77	<b>S10.3I</b>	ELU5	612.13	-670.85	-104.90	-23.97	-10.10	2.03	-17.56	-23.03
<b>S10.1D</b>	ELS3	225.63	-627.13	47.06	16.12	18.92	-5.74	-12.21	0.77	<b>S10.3I</b>	ELS3	533.74	-401.56	-119.64	19.24	-3.36	2.00	-15.53	-17.41
<b>S10.1D</b>	ELS3	227.92	-615.69	42.99	-14.07	13.29	3.74	-12.21	0.77	<b>S10.3I</b>	ELS3	365.63	-435.12	-35.45	28.07	33.55	1.16	-15.53	-17.41
<b>S10.1I</b>	ELU5	207.61	-830.62	-44.93	-18.33	17.44	-3.88	-13.66	-3.06	<b>S10.3I</b>	ELS3	349.49	-515.83	-54.35	-10.26	27.12	-0.78	-15.53	-17.41
<b>S10.1I</b>	ELU5	207.76	-829.88	-47.96	15.32	23.19	7.09	-13.66	-3.06	<b>S10.3I</b>	ELS3	517.60	-482.27	-138.54	-20.14	-10.05	0.07	-15.53	-17.41
<b>S10.1I</b>	ELU5	151.90	-841.04	-40.29	28.30	28.66	5.60	-13.66	-3.06	<b>S10.4D</b>	ELU5	590.89	-862.04	18.98	-21.04	38.54	-2.50	-23.32	32.51
<b>S10.1I</b>	ELU5	151.75	-841.79	-37.26	-6.36	24.98	-5.36	-13.66	-3.06	<b>S10.4D</b>	ELU5	698.19	-325.55	216.08	36.13	47.44	-3.80	-23.32	32.51
<b>S10.1I</b>	ELS3	229.80	-609.57	-43.86	-14.24	12.27	-3.82	-12.19	-1.54	<b>S10.4D</b>	ELU5	1318.04	-201.73	430.55	22.21	-21.61	-5.66	-23.32	32.51
<b>S10.1I</b>	ELS3	227.50	-621.04	-47.58	15.89	17.89	5.66	-12.19	-1.54	<b>S10.4D</b>	ELU5	1210.74	-738.23	233.44	-37.36	-30.75	-4.36	-23.32	32.51
<b>S10.1I</b>	ELS3	151.60	-636.21	-30.05	26.57	20.41	4.80	-12.19	-1.54	<b>S10.4D</b>	ELS3	504.59	-546.26	131.42	-17.26	21.91	-0.21	-19.04	21.17
<b>S10.1I</b>	ELS3	153.89	-624.74	-26.33	-4.27	16.30	-4.68	-12.19	-1.54	<b>S10.4D</b>	ELS3	580.51	-166.68	254.67	29.46	30.29	-1.89	-19.04	21.17
<b>S10.2D</b>	ELU5	343.82	-805.77	-3.77	-16.25	11.31	-4.87	-15.31	9.22	<b>S10.4D</b>	ELS3	1005.94	-81.63	314.59	19.70	-14.84	-2.75	-19.04	21.17
<b>S10.2D</b>	ELU5	200.65	-834.43	30.92	-18.47	30.49	-4.92	-15.31	9.22	<b>S10.4D</b>	ELS3	930.03	-461.21	191.33	-28.89	-23.04	-1.07	-19.04	21.17
<b>S10.2D</b>	ELU5	181.75	-928.91	65.04	19.02	38.64	1.88	-15.31	9.22	<b>S10.4I</b>	ELU5	1150.77	-634.36	-225.38	-33.25	-26.92	3.93	-21.59	-27.88
<b>S10.2D</b>	ELU5	324.93	-900.25	30.35	22.86	18.58	1.93	-15.31	9.22	<b>S10.4I</b>	ELU5	1244.95	-163.48	-398.90	21.78	-18.28	4.76	-21.59	-27.88
<b>S10.2D</b>	ELS3	344.02	-541.39	39.36	-12.67	4.46	-2.65	-13.39	7.64	<b>S10.4I</b>	ELU5	691.49	-274.05	-216.37	33.46	40.92	3.15	-21.59	-27.88
<b>S10.2D</b>	ELS3	238.56	-562.49	55.69	-13.77	20.26	-3.24	-13.39	7.64	<b>S10.4I</b>	ELU5	597.31	-744.92	-42.85	-19.58	32.53	2.32	-21.59	-27.88
<b>S10.2D</b>	ELS3	218.85	-661.05	75.22	19.08	28.23	1.65	-13.39	7.64	<b>S10.4I</b>	ELS3	928.36	-455.57	-188.57	-28.64	-22.78	1.01	-18.91	-20.87
<b>S10.2D</b>	ELS3	324.31	-639.95	58.89	21.49	11.53	2.24	-13.39	7.64	<b>S10.4I</b>	ELS3	1003.73	-78.72	-311.51	19.61	-14.64	2.67	-18.91	-20.87
<b>S10.2I</b>	ELU5	338.30	-832.24	-45.33	22.51	15.13	-2.20	-14.97	-10.41	<b>S10.4I</b>	ELS3	581.42	-163.14	-254.86	29.23	29.84	1.80	-18.91	-20.87
<b>S10.2I</b>	ELU5	201.83	-859.55	-73.95	19.51	37.67	-1.93	-14.97	-10.41	<b>S10.4I</b>	ELS3	506.05	-539.99	-131.92	-17.17	21.53	0.15	-18.91	-20.87
<b>S10.2I</b>	ELU5	223.33	-752.04	-41.44	-17.24	29.41	4.64	-14.97	-10.41	<b>S10.5D</b>	ELU5	943.95	-18.91	-310.08	28.77	8.84	-3.74	-25.72	-4.78
<b>S10.2I</b>	ELU5	359.80	-724.73	-12.82	-15.65	7.66	4.36	-14.97	-10.41	<b>S10.5D</b>	ELU5	994.06	231.62	-169.18	-35.11	-6.80	-2.74	-25.72	-4.78
<b>S10.2I</b>	ELS3	326.57	-630.46	-59.12	21.43	11.39	-2.33	-13.34	-7.45	<b>S10.5D</b>	ELU5	1421.85	317.34	136.68	-36.57	-17.03	-4.77	-25.72	-4.78



<b>S10.5D</b>	ELU5	1371.74	66.81	-4.22	28.22	-1.26	-5.76	-25.72	-4.78	<b>S11.1I</b>	ELU5	193.95	-928.51	19.22	8.74	29.41	4.42	12.44	-1.91
<b>S10.5D</b>	ELS3	715.11	22.10	-209.58	23.01	6.31	-1.31	-20.63	-3.97	<b>S11.1I</b>	ELU5	178.32	-931.64	15.19	16.99	25.93	5.43	12.44	-1.91
<b>S10.5D</b>	ELS3	755.84	225.71	-99.85	-28.22	-6.35	0.44	-20.63	-3.97	<b>S11.1I</b>	ELU5	198.15	-832.48	5.75	-13.70	17.69	-3.88	12.44	-1.91
<b>S10.5D</b>	ELS3	1080.41	290.71	61.30	-28.49	-14.82	-1.25	-20.63	-3.97	<b>S11.1I</b>	ELS3	212.64	-612.97	3.95	-10.32	15.29	-3.88	8.06	-0.11
<b>S10.5D</b>	ELS3	1039.69	87.10	-48.43	23.49	-2.13	-3.00	-20.63	-3.97	<b>S11.1I</b>	ELS3	210.85	-621.91	6.30	10.16	18.21	3.65	8.06	-0.11
<b>S10.5I</b>	ELU5	1291.66	70.08	-1.40	26.73	-1.50	5.01	-23.57	4.71	<b>S11.1I</b>	ELS3	244.32	-615.22	-2.19	17.48	18.57	3.29	8.06	-0.11
<b>S10.5I</b>	ELU5	1339.01	306.83	-121.84	-32.66	-15.95	4.12	-23.57	4.71	<b>S11.1I</b>	ELS3	246.10	-606.28	-4.53	-2.37	14.44	-4.24	8.06	-0.11
<b>S10.5I</b>	ELU5	961.47	231.18	147.68	-31.16	-5.88	2.25	-23.57	4.71	<b>S11.2D</b>	ELU5	352.50	-804.04	-2.28	-22.54	9.38	-5.73	14.52	11.20
<b>S10.5I</b>	ELU5	914.12	-5.57	268.12	27.39	8.48	3.15	-23.57	4.71	<b>S11.2D</b>	ELU5	317.14	-980.86	-42.52	14.51	18.87	-0.46	14.52	11.20
<b>S10.5I</b>	ELS3	1036.95	87.36	48.66	23.33	-2.16	2.92	-20.47	3.97	<b>S11.2D</b>	ELU5	145.66	-1015.14	-67.55	23.92	43.39	1.62	14.52	11.20
<b>S10.5I</b>	ELS3	1077.43	289.75	-60.09	-28.26	-14.76	1.18	-20.47	3.97	<b>S11.2D</b>	ELU5	181.03	-838.32	-27.30	-11.66	32.53	-3.65	14.52	11.20
<b>S10.5I</b>	ELS3	756.40	225.46	97.09	-27.99	-6.31	-0.50	-20.47	3.97	<b>S11.2D</b>	ELS3	365.82	-537.04	54.06	-11.16	4.53	-3.18	8.92	8.82
<b>S10.5I</b>	ELS3	715.92	23.07	205.85	22.86	6.27	1.24	-20.47	3.97	<b>S11.2D</b>	ELS3	351.83	-607.01	34.81	11.64	9.71	2.13	8.92	8.82
<b>S10.6D</b>	ELU5	1033.61	36.12	50.76	30.07	14.49	-1.83	-23.87	-9.85	<b>S11.2D</b>	ELS3	241.20	-629.11	-2.38	20.32	28.83	2.90	8.92	8.82
<b>S10.6D</b>	ELU5	1048.45	110.30	23.97	-29.47	2.13	-3.82	-23.87	-9.85	<b>S11.2D</b>	ELS3	255.20	-559.14	16.86	-1.49	22.95	-2.42	8.92	8.82
<b>S10.6D</b>	ELU5	966.50	93.86	-88.31	-35.86	-18.94	-4.21	-23.87	-9.85	<b>S11.2I</b>	ELU5	213.87	-753.90	9.25	-11.16	31.50	3.06	12.90	-12.52
<b>S10.6D</b>	ELU5	951.67	19.67	-61.52	24.05	-6.36	-2.22	-23.87	-9.85	<b>S11.2I</b>	ELU5	176.20	-942.22	36.90	20.47	42.22	-1.06	12.90	-12.52
<b>S10.6D</b>	ELS3	765.70	37.94	33.99	23.29	12.31	0.25	-19.16	-9.38	<b>S11.2I</b>	ELU5	344.46	-908.59	4.60	11.58	14.81	1.42	12.90	-12.52
<b>S10.6D</b>	ELS3	777.52	97.06	10.40	-24.48	2.26	-0.30	-19.16	-9.38	<b>S11.2I</b>	ELU5	382.13	-720.27	-23.05	-21.33	5.65	5.54	12.90	-12.52
<b>S10.6D</b>	ELS3	728.12	87.14	-65.21	-29.18	-17.77	-0.70	-19.16	-9.38	<b>S11.2I</b>	ELS3	257.44	-549.58	-16.92	-1.54	22.43	2.35	8.89	-8.63
<b>S10.6D</b>	ELS3	716.30	28.02	-41.62	18.91	-7.58	-0.14	-19.16	-9.38	<b>S11.2I</b>	ELS3	243.55	-619.03	1.35	20.19	28.30	-2.97	8.89	-8.63
<b>S10.6I</b>	ELU5	918.24	14.99	51.43	22.88	-6.45	1.86	-21.89	10.16	<b>S11.2I</b>	ELS3	354.51	-596.87	-36.64	11.59	9.58	-2.20	8.89	-8.63
<b>S10.6I</b>	ELU5	932.42	85.91	78.14	-32.07	-18.04	3.49	-21.89	10.16	<b>S11.2I</b>	ELS3	368.40	-527.42	-54.91	-11.13	4.41	3.12	8.89	-8.63
<b>S10.6I</b>	ELU5	1008.27	101.13	-20.77	-25.93	3.67	3.09	-21.89	10.16	<b>S11.3D</b>	ELU5	646.45	-751.01	-123.08	-25.46	-11.28	-1.98	16.34	26.28
<b>S10.6I</b>	ELU5	994.08	30.21	-47.48	28.66	15.06	1.47	-21.89	10.16	<b>S11.3D</b>	ELU5	649.33	-736.62	-124.73	15.96	-2.54	-5.37	16.34	26.28
<b>S10.6I</b>	ELS3	716.93	28.11	40.52	18.77	-7.60	0.08	-19.01	9.38	<b>S11.3D</b>	ELU5	354.16	-795.75	6.34	23.09	53.70	-4.73	16.34	26.28
<b>S10.6I</b>	ELS3	728.69	86.93	63.94	-28.95	-17.71	0.62	-19.01	9.38	<b>S11.3D</b>	ELU5	351.28	-810.13	7.99	-17.17	44.32	-1.34	16.34	26.28
<b>S10.6I</b>	ELS3	778.65	96.96	-10.38	-24.26	2.30	0.24	-19.01	9.38	<b>S11.3D</b>	ELS3	538.16	-484.92	-0.98	-14.95	-9.51	0.47	10.61	17.75
<b>S10.6I</b>	ELS3	766.89	38.14	-33.80	23.14	12.28	-0.31	-19.01	9.38	<b>S11.3D</b>	ELS3	553.20	-409.71	-10.29	11.93	-4.58	-0.58	10.61	17.75
<b>S11.1D</b>	ELU5	174.95	-868.73	-22.18	-11.84	25.15	4.48	13.09	-4.19	<b>S11.3D</b>	ELS3	384.53	-443.49	59.23	18.05	32.98	-0.99	10.61	17.75
<b>S11.1D</b>	ELU5	157.13	-957.78	-36.43	20.65	33.55	-6.07	13.09	-4.19	<b>S11.3D</b>	ELS3	369.49	-518.70	68.54	-8.13	28.48	0.06	10.61	17.75
<b>S11.1D</b>	ELU5	189.39	-951.34	-28.82	8.37	23.83	-5.33	13.09	-4.19	<b>S11.3I</b>	ELU5	382.85	-716.66	-40.82	-15.79	39.73	1.03	14.27	-23.84
<b>S11.1D</b>	ELU5	207.20	-862.29	-14.57	-24.61	17.06	5.22	13.09	-4.19	<b>S11.3I</b>	ELU5	389.38	-684.01	-36.46	19.39	47.50	5.81	14.27	-23.84
<b>S11.1D</b>	ELS3	244.56	-612.34	4.16	-2.20	15.45	4.16	8.07	-0.65	<b>S11.3I</b>	ELU5	641.90	-633.43	72.50	14.63	-3.42	6.13	14.27	-23.84
<b>S11.1D</b>	ELS3	242.78	-621.24	1.86	17.68	19.59	-3.36	8.07	-0.65	<b>S11.3I</b>	ELU5	635.37	-666.08	68.15	-21.55	-10.81	1.35	14.27	-23.84
<b>S11.1D</b>	ELS3	209.66	-627.85	-7.68	10.05	17.59	-3.71	8.07	-0.65	<b>S11.3I</b>	ELS3	371.60	-511.42	-69.86	-8.16	27.92	-0.15	10.56	-17.43
<b>S11.1D</b>	ELS3	211.44	-618.95	-5.37	-10.45	14.67	3.81	8.07	-0.65	<b>S11.3I</b>	ELS3	386.60	-436.43	-59.84	17.88	32.40	0.95	10.56	-17.43
<b>S11.1I</b>	ELU5	213.78	-829.35	9.79	-22.81	22.36	-4.89	12.44	-1.91	<b>S11.3I</b>	ELS3	553.80	-402.94	9.56	11.94	-4.47	0.54	10.56	-17.43



<b>S11.3I</b>	ELS3	538.81	-477.93	-0.47	-14.80	-9.37	-0.56	10.56	-17.43	<b>S11.6D</b>	ELS3	843.39	25.09	-74.03	16.56	11.46	-1.83	13.49	-9.63
<b>S11.4D</b>	ELU5	1111.58	-757.85	-62.06	-32.78	-31.33	-3.09	19.20	34.07	<b>S11.6D</b>	ELS3	771.47	10.73	-33.45	11.51	-8.97	-1.24	13.49	-9.63
<b>S11.4D</b>	ELU5	1209.61	-267.73	-216.26	16.30	-22.76	-3.60	19.20	34.07	<b>S11.6D</b>	ELS3	789.20	99.38	-20.68	-22.35	-16.60	-0.20	13.49	-9.63
<b>S11.4D</b>	ELU5	723.69	-364.83	-347.17	29.19	50.17	-4.00	19.20	34.07	<b>S11.6I</b>	ELU5	994.90	98.43	33.59	-25.14	-16.82	2.96	16.76	10.42
<b>S11.4D</b>	ELU5	625.66	-854.94	-192.96	-17.75	40.69	-3.49	19.20	34.07	<b>S11.6I</b>	ELU5	974.11	-5.52	48.10	16.94	-7.51	5.19	16.76	10.42
<b>S11.4D</b>	ELS3	850.51	-476.93	-81.85	-22.67	-22.27	-0.16	13.25	21.53	<b>S11.6I</b>	ELU5	1083.98	16.44	78.96	23.49	14.63	5.84	16.76	10.42
<b>S11.4D</b>	ELS3	931.90	-69.97	-176.61	11.13	-16.72	1.59	13.25	21.53	<b>S11.6I</b>	ELU5	1104.77	120.38	64.46	-18.27	5.37	3.61	16.76	10.42
<b>S11.4D</b>	ELS3	608.19	-134.76	-102.30	21.39	29.00	0.77	13.25	21.53	<b>S11.6I</b>	ELS3	788.67	98.95	19.95	-22.17	-16.56	0.13	13.41	9.62
<b>S11.4D</b>	ELS3	526.80	-541.72	-7.54	-11.07	23.62	-0.97	13.25	21.53	<b>S11.6I</b>	ELS3	771.10	11.12	32.67	11.46	-8.98	1.17	13.41	9.62
<b>S11.4I</b>	ELU5	620.56	-740.15	130.19	-15.07	34.43	3.64	16.86	-28.94	<b>S11.6I</b>	ELS3	843.07	25.49	73.37	16.52	11.45	1.76	13.41	9.62
<b>S11.4I</b>	ELU5	718.30	-251.43	248.58	26.17	41.39	3.96	16.86	-28.94	<b>S11.6I</b>	ELS3	860.63	113.32	60.64	-16.91	3.97	0.72	13.41	9.62
<b>S11.4I</b>	ELU5	1139.27	-167.28	175.89	15.11	-20.45	2.73	16.86	-28.94	<b>S12.1D</b>	ELU5	193.08	-950.60	-48.00	-18.01	27.58	-7.92	7.03	-4.12
<b>S11.4I</b>	ELU5	1041.53	-656.01	57.50	-27.97	-26.87	2.42	16.86	-28.94	<b>S12.1D</b>	ELU5	137.74	-1227.31	-85.82	0.03	37.59	2.20	7.03	-4.12
<b>S11.4I</b>	ELS3	527.26	-535.65	6.15	-10.99	23.23	0.91	13.16	-21.23	<b>S12.1D</b>	ELU5	74.86	-1239.89	-72.24	8.17	29.07	6.97	7.03	-4.12
<b>S11.4I</b>	ELS3	608.10	-131.45	98.69	21.26	28.58	-0.84	13.16	-21.23	<b>S12.1D</b>	ELU5	130.20	-963.18	-34.42	-8.99	18.59	-3.15	7.03	-4.12
<b>S11.4I</b>	ELS3	930.20	-66.98	175.09	11.12	-16.50	-1.65	13.16	-21.23	<b>S12.1D</b>	ELS3	265.02	-616.79	13.28	1.73	16.65	-3.53	-0.16	0.43
<b>S11.4I</b>	ELS3	849.36	-471.18	82.55	-22.47	-22.02	0.10	13.16	-21.23	<b>S12.1D</b>	ELS3	266.72	-608.27	6.63	1.65	16.50	2.69	-0.16	0.43
<b>S11.5D</b>	ELU5	1061.31	245.10	-112.24	-27.19	-5.03	-4.83	20.50	-5.10	<b>S12.1D</b>	ELS3	209.51	-619.71	-0.92	7.85	17.92	3.00	-0.16	0.43
<b>S11.5D</b>	ELU5	1015.59	16.55	-23.23	23.73	8.08	-5.62	20.50	-5.10	<b>S12.1D</b>	ELS3	207.80	-628.23	5.72	8.58	17.04	-3.22	-0.16	0.43
<b>S11.5D</b>	ELU5	1276.92	68.85	55.25	21.12	-2.65	-3.49	20.50	-5.10	<b>S12.1I</b>	ELU5	134.77	-940.37	-6.91	-5.87	27.65	3.00	5.84	-4.44
<b>S11.5D</b>	ELU5	1322.63	297.41	-33.76	-30.52	-16.00	-2.71	20.50	-5.10	<b>S12.1I</b>	ELU5	91.63	-1156.03	2.34	8.33	36.51	1.21	5.84	-4.44
<b>S11.5D</b>	ELS3	816.92	237.95	-55.52	-20.96	-4.68	-1.20	14.56	-4.20	<b>S12.1I</b>	ELU5	167.45	-1140.86	19.55	5.04	25.87	4.58	5.84	-4.44
<b>S11.5D</b>	ELS3	780.21	54.41	18.96	15.24	4.67	-0.23	14.56	-4.20	<b>S12.1I</b>	ELU5	210.58	-925.20	10.31	-9.99	19.38	6.37	5.84	-4.44
<b>S11.5D</b>	ELS3	964.13	91.16	-42.33	14.67	-4.15	1.33	14.56	-4.20	<b>S12.1I</b>	ELS3	208.99	-622.29	-6.16	8.71	17.67	3.16	-0.16	-1.21
<b>S11.5D</b>	ELS3	1000.84	274.70	-116.82	-21.99	-13.75	0.36	14.56	-4.20	<b>S12.1I</b>	ELS3	210.75	-613.49	0.04	7.98	18.55	-3.06	-0.16	-1.21
<b>S11.5I</b>	ELU5	1229.70	284.88	48.05	-26.38	-14.84	2.35	18.15	4.91	<b>S12.1I</b>	ELS3	268.71	-601.90	-9.42	1.44	15.46	-2.75	-0.16	-1.21
<b>S11.5I</b>	ELU5	1189.55	84.12	-28.24	19.36	-3.27	2.38	18.15	4.91	<b>S12.1I</b>	ELS3	266.95	-610.70	-15.62	1.52	15.62	3.47	-0.16	-1.21
<b>S11.5I</b>	ELU5	983.80	42.94	27.08	21.15	7.08	4.08	18.15	4.91	<b>S12.2D</b>	ELU5	373.32	-969.63	-67.84	-10.35	13.85	-1.32	7.04	10.22
<b>S11.5I</b>	ELU5	1023.96	243.70	103.37	-23.93	-4.29	4.06	18.15	4.91	<b>S12.2D</b>	ELU5	342.01	-1126.20	-53.36	7.08	22.21	-11.37	7.04	10.22
<b>S11.5I</b>	ELS3	998.37	273.84	116.65	-21.81	-13.70	-0.42	14.47	4.20	<b>S12.2D</b>	ELU5	150.29	-1164.54	-59.76	1.34	44.16	-7.79	7.04	10.22
<b>S11.5I</b>	ELS3	961.92	91.61	42.75	14.60	-4.16	-1.38	14.47	4.20	<b>S12.2D</b>	ELU5	181.61	-1007.97	-74.24	-16.44	35.38	2.26	7.04	10.22
<b>S11.5I</b>	ELS3	779.93	55.24	-20.60	15.18	4.64	0.17	14.47	4.20	<b>S12.2D</b>	ELS3	367.34	-603.88	5.51	5.41	9.25	2.70	-0.21	7.10
<b>S11.5I</b>	ELS3	816.37	237.48	53.30	-20.78	-4.64	1.13	14.47	4.20	<b>S12.2D</b>	ELS3	383.47	-523.23	6.53	4.67	8.57	-2.07	-0.21	7.10
<b>S11.6D</b>	ELU5	1146.45	129.86	-65.39	-20.39	4.11	-4.44	18.96	-10.19	<b>S12.2D</b>	ELS3	279.58	-544.01	12.78	3.01	23.38	-2.69	-0.21	7.10
<b>S11.6D</b>	ELU5	1123.98	17.47	-78.87	26.84	14.77	-7.75	18.96	-10.19	<b>S12.2D</b>	ELS3	263.45	-624.66	11.76	3.35	24.65	2.09	-0.21	7.10
<b>S11.6D</b>	ELU5	1011.28	-5.05	-44.60	19.32	-6.88	-6.89	18.96	-10.19	<b>S12.2I</b>	ELU5	208.47	-935.79	28.87	-4.70	37.99	0.05	4.37	-12.34
<b>S11.6D</b>	ELU5	1033.75	107.34	-31.11	-28.28	-17.60	-3.58	18.96	-10.19	<b>S12.2I</b>	ELU5	201.99	-968.19	14.11	6.51	41.08	10.57	4.37	-12.34
<b>S11.6D</b>	ELS3	861.12	113.74	-61.26	-17.08	3.94	-0.79	13.49	-9.63	<b>S12.2I</b>	ELU5	377.16	-933.15	16.85	11.71	14.65	11.09	4.37	-12.34



<b>S12.2I</b>	ELU5	383.64	-900.75	31.62	1.09	11.91	0.57	4.37	-12.34	<b>S12.5D</b>	ELU5	1161.09	99.71	-95.88	12.62	3.25	-6.53	1.99	-3.48
<b>S12.2I</b>	ELS3	266.19	-614.51	-14.47	3.25	24.14	-2.16	-0.22	-6.92	<b>S12.5D</b>	ELU5	544.46	-23.57	116.68	9.03	-4.23	-7.16	1.99	-3.48
<b>S12.2I</b>	ELS3	282.12	-534.84	-14.83	2.90	22.87	2.64	-0.22	-6.92	<b>S12.5D</b>	ELU5	533.20	-79.88	192.80	3.84	-4.26	-4.88	1.99	-3.48
<b>S12.2I</b>	ELS3	385.08	-514.24	-6.75	4.65	8.43	2.02	-0.22	-6.92	<b>S12.5D</b>	ELS3	896.04	77.57	29.44	6.59	1.90	0.52	-0.20	-3.39
<b>S12.2I</b>	ELS3	369.14	-593.92	-6.40	5.41	9.12	-2.78	-0.22	-6.92	<b>S12.5D</b>	ELS3	897.47	84.67	-26.42	6.06	1.88	-0.96	-0.20	-3.39
<b>S12.3D</b>	ELU5	588.34	-748.89	-45.90	-7.78	-8.30	-6.06	5.17	28.03	<b>S12.5D</b>	ELS3	450.45	-4.73	-19.99	3.14	-5.32	-0.90	-0.20	-3.39
<b>S12.3D</b>	ELU5	564.61	-867.54	-70.26	5.33	-4.09	-11.19	5.17	28.03	<b>S12.5D</b>	ELS3	449.04	-11.83	35.86	3.62	-5.32	0.58	-0.20	-3.39
<b>S12.3D</b>	ELU5	386.62	-903.15	-38.19	11.82	56.97	-9.03	5.17	28.03	<b>S12.5I</b>	ELU5	537.58	-46.26	-121.79	4.63	-4.66	3.38	0.92	3.51
<b>S12.3D</b>	ELU5	410.35	-784.50	-13.83	-0.94	49.91	-3.89	5.17	28.03	<b>S12.5I</b>	ELU5	540.92	-29.55	-58.64	7.07	-4.64	4.48	0.92	3.51
<b>S12.3D</b>	ELS3	515.35	-417.30	39.59	0.86	-5.28	-1.02	-0.18	16.54	<b>S12.5I</b>	ELU5	1119.64	86.16	85.19	9.54	2.88	4.20	0.92	3.51
<b>S12.3D</b>	ELS3	511.38	-437.15	-1.66	0.50	-4.80	0.52	-0.18	16.54	<b>S12.5I</b>	ELU5	1116.29	69.45	22.04	7.38	2.77	3.10	0.92	3.51
<b>S12.3D</b>	ELS3	396.08	-460.21	-8.46	9.01	30.52	1.02	-0.18	16.54	<b>S12.5I</b>	ELS3	450.07	-10.73	-34.85	3.63	-5.32	-0.64	-0.21	3.39
<b>S12.3D</b>	ELS3	400.05	-440.35	32.80	9.55	29.77	-0.53	-0.18	16.54	<b>S12.5I</b>	ELS3	451.48	-3.67	20.99	3.12	-5.33	0.84	-0.21	3.39
<b>S12.3I</b>	ELU5	428.56	-676.15	-13.18	9.63	45.64	5.95	2.76	-24.89	<b>S12.5I</b>	ELS3	895.93	85.22	24.74	6.04	1.86	0.90	-0.21	3.39
<b>S12.3I</b>	ELU5	419.43	-721.81	21.61	16.53	47.73	5.85	2.76	-24.89	<b>S12.5I</b>	ELS3	894.51	78.16	-31.10	6.61	1.89	-0.58	-0.21	3.39
<b>S12.3I</b>	ELU5	573.05	-691.08	41.23	5.86	-5.89	5.88	2.76	-24.89	<b>S12.6D</b>	ELU5	1184.12	29.53	-25.16	5.44	9.71	-7.09	1.42	-8.71
<b>S12.3I</b>	ELU5	582.19	-645.42	6.44	-1.05	-6.65	5.99	2.76	-24.89	<b>S12.6D</b>	ELU5	1184.10	29.51	39.24	8.88	9.84	-2.79	1.42	-8.71
<b>S12.3I</b>	ELS3	401.23	-433.47	-32.43	9.47	29.23	0.48	-0.19	-16.24	<b>S12.6D</b>	ELU5	1145.48	21.79	21.32	9.68	-8.78	-3.25	1.42	-8.71
<b>S12.3I</b>	ELS3	397.24	-453.42	7.01	8.92	29.97	-1.10	-0.19	-16.24	<b>S12.6D</b>	ELU5	1145.52	21.81	-43.08	6.03	-8.75	-7.56	1.42	-8.71
<b>S12.3I</b>	ELS3	513.01	-430.27	-1.37	0.49	-4.71	-0.60	-0.19	-16.24	<b>S12.6D</b>	ELS3	900.71	36.58	-32.52	5.60	8.80	-1.62	-0.30	-8.80
<b>S12.3I</b>	ELS3	517.00	-410.32	-40.82	0.88	-5.19	0.98	-0.19	-16.24	<b>S12.6D</b>	ELS3	898.18	23.96	18.33	4.83	8.89	0.83	-0.30	-8.80
<b>S12.4D</b>	ELU5	465.86	-416.63	-17.56	-1.86	-25.38	-2.60	2.94	33.19	<b>S12.6D</b>	ELS3	884.78	21.28	25.86	3.60	-9.83	1.00	-0.30	-8.80
<b>S12.4D</b>	ELU5	499.38	-249.03	194.30	5.63	-28.30	-9.67	2.94	33.19	<b>S12.6D</b>	ELS3	887.33	33.91	-24.99	4.34	-9.93	-1.45	-0.30	-8.80
<b>S12.4D</b>	ELU5	696.20	-209.59	-54.35	12.37	43.24	-12.12	2.94	33.19	<b>S12.6I</b>	ELU5	1106.62	20.99	45.15	5.37	-9.15	5.61	0.53	9.18
<b>S12.4D</b>	ELU5	662.68	-377.19	-266.21	5.17	44.32	-5.06	2.94	33.19	<b>S12.6I</b>	ELU5	1104.50	10.51	-14.04	6.76	-9.19	1.70	0.53	9.18
<b>S12.4D</b>	ELS3	416.78	-173.10	-51.02	1.31	-16.44	1.17	-0.16	18.91	<b>S12.6I</b>	ELU5	1155.74	20.76	-29.00	6.60	10.40	1.52	0.53	9.18
<b>S12.4D</b>	ELS3	423.02	-141.92	82.71	0.92	-16.60	-1.50	-0.16	18.91	<b>S12.6I</b>	ELU5	1157.85	31.24	30.19	5.36	10.34	5.43	0.53	9.18
<b>S12.4D</b>	ELS3	576.57	-111.21	82.27	6.23	23.61	-1.56	-0.16	18.91	<b>S12.6I</b>	ELS3	885.71	34.05	24.17	4.35	-9.93	1.38	-0.31	8.80
<b>S12.4D</b>	ELS3	570.33	-142.39	-51.47	6.63	23.80	1.10	-0.16	18.91	<b>S12.6I</b>	ELS3	883.18	21.53	-26.42	3.59	-9.84	-1.05	-0.31	8.80
<b>S12.4I</b>	ELU5	658.57	-263.49	181.33	8.87	36.30	4.40	1.47	-27.41	<b>S12.6I</b>	ELS3	896.63	24.22	-18.11	4.83	8.88	-0.88	-0.31	8.80
<b>S12.4I</b>	ELU5	679.97	-156.51	-3.61	12.61	34.52	7.40	1.47	-27.41	<b>S12.6I</b>	ELS3	899.15	36.74	32.48	5.62	8.80	1.55	-0.31	8.80
<b>S12.4I</b>	ELU5	508.68	-190.82	-159.07	3.97	-24.03	5.46	1.47	-27.41	<b>S13.1D</b>	ELU5	244.22	-1206.01	-98.02	33.31	46.41	2.51	8.83	-8.35
<b>S12.4I</b>	ELU5	487.28	-297.80	25.87	0.36	-21.79	2.45	1.47	-27.41	<b>S13.1D</b>	ELU5	190.35	-1475.39	-67.00	55.21	57.19	-5.15	8.83	-8.35
<b>S12.4I</b>	ELS3	571.29	-138.87	47.37	6.55	23.42	-1.17	-0.17	-18.63	<b>S13.1D</b>	ELU5	-87.10	-1530.88	-55.07	44.04	38.43	-1.34	8.83	-8.35
<b>S12.4I</b>	ELS3	577.36	-108.52	-83.94	6.12	23.23	1.51	-0.17	-18.63	<b>S13.1D</b>	ELU5	-33.22	-1261.50	-86.09	21.76	29.62	6.32	8.83	-8.35
<b>S12.4I</b>	ELS3	424.40	-139.12	-80.88	0.95	-16.40	1.45	-0.17	-18.63	<b>S13.1D</b>	ELS3	254.49	-610.71	-4.71	15.07	18.84	2.75	-6.73	-0.33
<b>S12.4I</b>	ELS3	418.33	-169.46	50.43	1.37	-16.23	-1.23	-0.17	-18.63	<b>S13.1D</b>	ELS3	261.43	-576.05	-10.24	-2.13	15.74	-2.48	-6.73	-0.33
<b>S12.5D</b>	ELU5	1149.81	43.40	-19.75	7.86	3.08	-4.25	1.99	-3.48	<b>S13.1D</b>	ELS3	228.93	-582.55	1.06	-7.26	14.65	-2.57	-6.73	-0.33





<b>S13.1D</b>	ELS3	222.00	-617.21	6.59	9.24	18.54	2.66	-6.73	-0.33
<b>S13.1I</b>	ELU5	-16.45	-1177.65	-5.34	28.07	44.67	2.32	5.54	-8.89
<b>S13.1I</b>	ELU5	-50.39	-1347.33	-15.16	43.00	49.67	2.16	5.54	-8.89
<b>S13.1I</b>	ELU5	177.22	-1301.80	10.93	37.97	30.81	3.78	5.54	-8.89
<b>S13.1I</b>	ELU5	211.16	-1132.12	20.75	25.22	25.69	3.94	5.54	-8.89
<b>S13.1I</b>	ELS3	223.24	-610.99	-10.25	9.36	19.16	-2.72	-6.73	-0.45
<b>S13.1I</b>	ELS3	230.00	-577.21	-4.37	-7.12	15.28	2.52	-6.73	-0.45
<b>S13.1I</b>	ELS3	262.55	-570.70	10.06	-2.31	14.72	2.43	-6.73	-0.45
<b>S13.1I</b>	ELS3	255.80	-604.48	4.19	14.86	17.81	-2.81	-6.73	-0.45
<b>S13.2D</b>	ELU5	404.63	-1113.68	-40.41	18.31	20.09	-11.95	7.22	17.06
<b>S13.2D</b>	ELU5	343.43	-1419.67	-39.85	35.73	29.68	-0.32	7.22	17.06
<b>S13.2D</b>	ELU5	195.58	-1449.24	-71.41	55.50	66.77	4.47	7.22	17.06
<b>S13.2D</b>	ELU5	256.78	-1143.24	-71.97	36.78	55.62	-7.16	7.22	17.06
<b>S13.2D</b>	ELS3	378.65	-524.19	-6.39	9.76	8.73	-2.63	-7.54	8.81
<b>S13.2D</b>	ELS3	368.33	-575.81	-22.12	-9.18	5.55	1.45	-7.54	8.81
<b>S13.2D</b>	ELS3	257.02	-598.07	-14.31	-1.21	24.61	2.09	-7.54	8.81
<b>S13.2D</b>	ELS3	267.34	-546.46	1.43	17.59	27.15	-1.99	-7.54	8.81
<b>S13.2I</b>	ELU5	245.69	-959.45	15.30	35.54	51.77	10.50	0.43	-19.78
<b>S13.2I</b>	ELU5	220.44	-1085.69	13.82	37.42	53.55	-2.62	0.43	-19.78
<b>S13.2I</b>	ELU5	362.08	-1057.36	13.40	14.83	10.84	-1.96	0.43	-19.78
<b>S13.2I</b>	ELU5	387.32	-931.12	14.89	14.57	10.34	11.15	0.43	-19.78
<b>S13.2I</b>	ELS3	269.21	-537.42	-1.22	17.47	26.63	1.94	-7.52	-8.63
<b>S13.2I</b>	ELS3	259.08	-588.05	13.02	-1.28	24.10	-2.15	-7.52	-8.63
<b>S13.2I</b>	ELS3	371.12	-565.64	18.14	-9.19	5.43	-1.51	-7.52	-8.63
<b>S13.2I</b>	ELS3	381.25	-515.01	3.91	9.70	8.59	2.58	-7.52	-8.63
<b>S13.3D</b>	ELU5	606.34	-859.22	31.49	12.29	-11.82	-10.28	-0.52	39.38
<b>S13.3D</b>	ELU5	595.45	-913.72	-11.95	9.32	-13.12	-1.68	-0.52	39.38
<b>S13.3D</b>	ELU5	438.34	-945.12	-68.68	36.47	71.68	-1.70	-0.52	39.38
<b>S13.3D</b>	ELU5	449.24	-890.63	-25.23	36.14	70.96	-10.30	-0.52	39.38
<b>S13.3D</b>	ELS3	566.96	-426.04	38.56	11.46	-4.15	0.95	-9.32	17.74
<b>S13.3D</b>	ELS3	566.70	-427.37	16.52	-12.35	-9.51	-1.05	-9.32	17.74
<b>S13.3D</b>	ELS3	390.99	-462.50	-43.41	-6.38	28.26	-1.52	-9.32	17.74
<b>S13.3D</b>	ELS3	391.25	-461.17	-21.37	16.46	33.55	0.48	-9.32	17.74
<b>S13.3I</b>	ELU5	429.59	-719.78	19.65	29.51	55.81	6.79	-5.47	-31.02
<b>S13.3I</b>	ELU5	428.12	-727.13	42.77	17.05	51.11	2.24	-5.47	-31.02
<b>S13.3I</b>	ELU5	617.04	-689.37	-15.38	-2.00	-15.13	0.68	-5.47	-31.02
<b>S13.3I</b>	ELU5	618.51	-682.01	-38.50	12.94	-9.95	5.23	-5.47	-31.02
<b>S13.3I</b>	ELS3	393.42	-454.18	17.68	16.30	32.98	-0.56	-9.28	-17.43
<b>S13.3I</b>	ELS3	393.06	-455.96	41.46	-6.45	27.72	1.49	-9.28	-17.43
<b>S13.3I</b>	ELS3	566.64	-421.26	-16.45	-12.23	-9.39	1.02	-9.28	-17.43
<b>S13.3I</b>	ELS3	567.00	-419.48	-40.24	11.47	-4.05	-1.03	-9.28	-17.43
<b>S13.4D</b>	ELU5	964.07	-156.11	262.50	7.48	-35.99	-10.40	-10.38	43.59
<b>S13.4D</b>	ELU5	872.56	-613.68	262.20	-20.25	-43.77	1.12	-10.38	43.59
<b>S13.4D</b>	ELU5	646.42	-658.84	47.10	11.77	49.72	-0.19	-10.38	43.59
<b>S13.4D</b>	ELU5	737.93	-201.27	47.40	35.98	56.01	-11.71	-10.38	43.59
<b>S13.4D</b>	ELS3	847.18	-57.12	194.58	10.29	-16.98	-2.06	-11.97	21.61
<b>S13.4D</b>	ELS3	762.45	-480.75	129.10	-20.30	-21.74	-0.03	-11.97	21.61
<b>S13.4D</b>	ELS3	547.43	-523.74	57.01	-8.42	24.43	0.97	-11.97	21.61
<b>S13.4D</b>	ELS3	632.15	-100.10	122.49	20.90	28.80	-1.06	-11.97	21.61
<b>S13.4I</b>	ELU5	725.43	-147.44	-83.34	30.02	43.12	6.56	-11.71	-33.55
<b>S13.4I</b>	ELU5	629.08	-629.18	-73.71	2.04	37.43	-0.66	-11.71	-33.55
<b>S13.4I</b>	ELU5	892.18	-576.60	-223.27	-20.89	-34.22	-0.74	-11.71	-33.55
<b>S13.4I</b>	ELU5	988.53	-94.87	-232.91	9.72	-28.00	6.49	-11.71	-33.55
<b>S13.4I</b>	ELS3	631.35	-97.74	-122.81	20.80	28.41	1.01	-11.91	-21.32
<b>S13.4I</b>	ELS3	547.22	-518.40	-60.26	-8.38	24.04	-1.04	-11.91	-21.32
<b>S13.4I</b>	ELS3	762.25	-475.41	-129.78	-20.15	-21.51	-0.05	-11.91	-21.32
<b>S13.4I</b>	ELS3	846.38	-54.75	-192.33	10.28	-16.77	2.00	-11.91	-21.32
<b>S13.5D</b>	ELU5	1028.35	73.17	-99.21	12.72	3.71	-5.31	-14.97	-3.16
<b>S13.5D</b>	ELU5	1088.74	375.05	-23.16	-24.59	-7.82	1.68	-14.97	-3.16
<b>S13.5D</b>	ELU5	1069.55	371.26	214.58	-18.94	-14.81	-1.39	-14.97	-3.16
<b>S13.5D</b>	ELU5	1009.18	69.39	138.54	18.66	-2.75	-8.38	-14.97	-3.16
<b>S13.5D</b>	ELS3	804.78	66.13	-30.31	14.19	4.45	-0.12	-13.27	-4.09
<b>S13.5D</b>	ELS3	841.16	248.01	6.38	-18.76	-4.32	1.02	-13.27	-4.09
<b>S13.5D</b>	ELS3	911.01	261.99	92.79	-19.59	-13.17	-0.60	-13.27	-4.09
<b>S13.5D</b>	ELS3	874.63	80.12	56.10	13.87	-4.12	-1.73	-13.27	-4.09
<b>S13.5I</b>	ELU5	1020.80	66.43	-89.70	17.37	-3.29	5.46	-14.66	3.74
<b>S13.5I</b>	ELU5	1067.36	299.27	-168.30	-19.53	-14.02	0.71	-14.66	3.74
<b>S13.5I</b>	ELU5	1054.09	296.58	1.24	-22.58	-5.85	-1.56	-14.66	3.74
<b>S13.5I</b>	ELU5	1007.51	63.74	79.86	13.89	4.46	3.20	-14.66	3.74
<b>S13.5I</b>	ELS3	873.48	80.75	-54.91	13.80	-4.14	1.67	-13.20	4.09
<b>S13.5I</b>	ELS3	909.53	261.02	-91.88	-19.48	-13.13	0.53	-13.20	4.09
<b>S13.5I</b>	ELS3	839.48	246.99	-7.90	-18.65	-4.29	-1.07	-13.20	4.09
<b>S13.5I</b>	ELS3	803.42	66.72	29.08	14.12	4.42	0.07	-13.20	4.09
<b>S13.6D</b>	ELU5	1112.35	15.17	114.54	8.86	10.15	-2.21	-13.86	-9.16
<b>S13.6D</b>	ELU5	1141.18	159.30	98.08	-25.74	1.11	1.74	-13.86	-9.16
<b>S13.6D</b>	ELU5	1041.61	139.36	1.44	-25.68	-18.51	0.15	-13.86	-9.16



<b>S13.6D</b>	ELU5	1012.79	-4.76	17.89	9.09	-9.21	-3.80	-13.86	-9.16	<b>S14.2I</b>	ELU5	238.42	-963.20	-5.26	39.99	52.71	-6.66	6.34	-18.93
<b>S13.6D</b>	ELS3	844.52	13.23	76.35	14.40	11.22	1.35	-12.12	-9.48	<b>S14.2I</b>	ELU5	366.48	-937.59	22.19	28.05	12.92	-7.33	6.34	-18.93
<b>S13.6D</b>	ELS3	865.37	117.49	71.58	-15.80	4.03	1.26	-12.12	-9.48	<b>S14.2I</b>	ELU5	341.71	-1061.44	6.96	11.25	10.22	-2.58	6.34	-18.93
<b>S13.6D</b>	ELS3	812.96	106.99	17.13	-20.03	-16.20	0.42	-12.12	-9.48	<b>S14.2I</b>	ELS3	252.91	-589.29	20.40	-11.43	21.94	-1.46	13.15	-7.90
<b>S13.6D</b>	ELS3	792.12	2.74	21.90	10.41	-8.89	0.50	-12.12	-9.48	<b>S14.2I</b>	ELS3	262.08	-543.44	47.57	21.26	27.41	1.31	13.15	-7.90
<b>S13.6I</b>	ELU5	992.40	-11.91	-19.29	10.08	-8.90	2.19	-13.48	9.73	<b>S14.2I</b>	ELS3	363.95	-523.06	64.58	20.94	10.77	0.65	13.15	-7.90
<b>S13.6I</b>	ELU5	1017.45	113.34	-8.55	-23.75	-17.40	-0.56	-13.48	9.73	<b>S14.2I</b>	ELS3	354.78	-568.92	37.42	-12.18	4.96	-2.12	13.15	-7.90
<b>S13.6I</b>	ELU5	1124.12	134.69	-88.28	-22.32	3.41	-1.74	-13.48	9.73	<b>S14.3D</b>	ELU5	555.39	-921.72	-123.35	-2.79	-15.15	-1.60	8.27	39.83
<b>S13.6I</b>	ELU5	1099.07	9.44	-99.03	11.30	11.71	1.01	-13.48	9.73	<b>S14.3D</b>	ELU5	575.66	-820.38	-107.11	19.82	-10.58	13.83	8.27	39.83
<b>S13.6I</b>	ELS3	790.70	3.03	-22.00	10.35	-8.91	-0.55	-12.05	9.48	<b>S14.3D</b>	ELU5	444.37	-846.64	-76.33	50.54	73.40	13.60	8.27	39.83
<b>S13.6I</b>	ELS3	811.44	106.76	-17.12	-19.92	-16.17	-0.46	-12.05	9.48	<b>S14.3D</b>	ELU5	424.10	-947.98	-92.58	31.79	70.35	-1.83	8.27	39.83
<b>S13.6I</b>	ELS3	863.34	117.15	-71.38	-15.68	4.06	-1.30	-12.05	9.48	<b>S14.3D</b>	ELS3	533.46	-434.01	-102.47	-21.72	-11.10	-1.36	15.41	18.10
<b>S13.6I</b>	ELS3	842.59	13.42	-76.27	14.36	11.20	-1.40	-12.05	9.48	<b>S14.3D</b>	ELS3	540.52	-398.74	-81.81	17.50	-3.17	2.05	15.41	18.10
<b>S14.1D</b>	ELU5	185.92	-1476.29	-16.05	42.85	54.86	-1.02	-2.10	-7.27	<b>S14.3D</b>	ELS3	383.22	-430.21	-36.95	27.99	35.47	2.31	15.41	18.10
<b>S14.1D</b>	ELU5	241.91	-1196.33	22.02	37.81	47.23	3.56	-2.10	-7.27	<b>S14.3D</b>	ELS3	376.16	-465.47	-57.61	-9.88	27.28	-1.10	15.41	18.10
<b>S14.1D</b>	ELU5	-83.32	-1261.38	20.40	39.18	32.75	-0.40	-2.10	-7.27	<b>S14.3I</b>	ELU5	407.75	-731.22	33.82	13.08	50.05	0.74	12.61	-31.53
<b>S14.1D</b>	ELU5	-139.32	-1541.34	-17.67	44.65	38.41	-4.98	-2.10	-7.27	<b>S14.3I</b>	ELU5	418.24	-678.76	-0.44	43.21	58.06	-10.48	12.61	-31.53
<b>S14.1D</b>	ELS3	254.46	-577.45	-23.45	-12.08	13.83	-2.38	12.16	0.57	<b>S14.3I</b>	ELU5	586.61	-645.09	34.32	19.80	-8.94	-9.21	12.61	-31.53
<b>S14.1D</b>	ELS3	248.75	-606.00	-24.23	18.69	19.47	2.32	12.16	0.57	<b>S14.3I</b>	ELU5	576.12	-697.54	68.57	-13.17	-17.10	2.00	12.61	-31.53
<b>S14.1D</b>	ELS3	179.51	-619.85	-24.80	23.38	21.03	2.26	12.16	0.57	<b>S14.3I</b>	ELS3	376.72	-459.24	58.72	-9.87	26.76	1.07	15.33	-17.81
<b>S14.1D</b>	ELS3	185.22	-591.29	-24.01	-6.70	14.68	-2.44	12.16	0.57	<b>S14.3I</b>	ELS3	383.79	-423.86	35.08	27.82	34.90	-2.39	15.33	-17.81
<b>S14.1I</b>	ELU5	-102.60	-1357.77	-5.13	43.70	49.78	3.75	1.10	-10.04	<b>S14.3I</b>	ELS3	542.34	-392.15	76.28	17.39	-3.10	-2.13	15.33	-17.81
<b>S14.1I</b>	ELU5	-66.41	-1176.79	-22.53	45.41	47.77	-8.65	1.10	-10.04	<b>S14.3I</b>	ELS3	535.26	-427.53	99.92	-21.63	-11.00	1.33	15.33	-17.81
<b>S14.1I</b>	ELU5	206.63	-1122.18	-38.65	29.54	26.44	-10.44	1.10	-10.04	<b>S14.4D</b>	ELU5	1265.14	-535.07	-260.20	-31.89	-45.60	-0.05	19.09	43.23
<b>S14.1I</b>	ELU5	170.43	-1303.17	-21.25	25.76	28.40	1.96	1.10	-10.04	<b>S14.4D</b>	ELU5	1351.09	-105.31	-389.97	18.08	-34.16	9.80	19.09	43.23
<b>S14.1I</b>	ELS3	186.29	-585.95	24.49	-6.56	15.32	2.39	12.15	-1.35	<b>S14.4D</b>	ELU5	692.32	-237.07	-193.34	44.26	57.55	10.98	19.09	43.23
<b>S14.1I</b>	ELS3	180.87	-613.04	24.65	23.49	21.65	-2.30	12.15	-1.35	<b>S14.4D</b>	ELU5	606.37	-666.84	-63.57	-1.25	46.62	1.12	19.09	43.23
<b>S14.1I</b>	ELS3	250.96	-599.02	19.27	18.47	18.42	-2.37	12.15	-1.35	<b>S14.4D</b>	ELS3	1035.83	-426.03	-129.46	-29.15	-23.14	1.10	18.76	21.31
<b>S14.1I</b>	ELS3	256.38	-571.94	19.11	-12.26	12.80	2.32	12.15	-1.35	<b>S14.4D</b>	ELS3	1116.88	-20.78	-286.30	18.74	-15.49	1.75	18.76	21.31
<b>S14.2D</b>	ELU5	329.19	-1422.53	-69.04	31.69	29.10	4.39	-0.12	16.15	<b>S14.4D</b>	ELS3	595.25	-125.11	-217.93	27.49	29.99	0.64	18.76	21.31
<b>S14.2D</b>	ELU5	389.98	-1118.59	-83.25	32.28	22.84	7.67	-0.12	16.15	<b>S14.4D</b>	ELS3	514.19	-530.36	-61.10	-18.45	22.05	-0.02	18.76	21.31
<b>S14.2D</b>	ELU5	251.94	-1146.20	-28.74	41.60	56.66	2.90	-0.12	16.15	<b>S14.4I</b>	ELU5	588.16	-637.34	9.73	-9.80	34.67	-0.76	19.56	-33.22
<b>S14.2D</b>	ELU5	191.15	-1450.14	-14.53	42.78	64.01	-0.38	-0.12	16.15	<b>S14.4I</b>	ELU5	680.54	-175.47	139.02	37.45	44.37	-6.38	19.56	-33.22
<b>S14.2D</b>	ELS3	353.50	-578.78	-38.36	-12.24	5.08	2.05	13.19	8.08	<b>S14.4I</b>	ELU5	1318.08	-47.95	320.03	19.28	-26.41	-6.49	19.56	-33.22
<b>S14.2D</b>	ELS3	363.05	-531.03	-63.76	20.99	10.91	-0.69	13.19	8.08	<b>S14.4I</b>	ELU5	1225.71	-509.82	190.74	-31.30	-35.91	-0.88	19.56	-33.22
<b>S14.2D</b>	ELS3	259.60	-551.72	-51.05	21.41	27.93	-1.34	13.19	8.08	<b>S14.4I</b>	ELS3	515.84	-524.65	55.23	-18.42	21.67	-0.06	18.65	-21.02
<b>S14.2D</b>	ELS3	250.05	-599.47	-25.65	-11.38	22.44	1.39	13.19	8.08	<b>S14.4I</b>	ELS3	596.18	-122.97	214.70	27.26	29.58	-0.67	18.65	-21.02
<b>S14.2I</b>	ELU5	213.65	-1087.05	-20.49	25.08	50.98	-1.91	6.34	-18.93	<b>S14.4I</b>	ELS3	1113.23	-19.55	286.95	18.67	-15.30	-1.77	18.65	-21.02



<b>S14.4I</b>	ELS3	1032.90	-421.24	127.48	-28.94	-22.90	-1.16	18.65	-21.02	<b>S15.1D</b>	ELS3	218.97	-619.09	-35.59	18.09	19.41	-1.49	5.42	-0.64
<b>S14.5D</b>	ELU5	1008.49	359.00	50.71	-36.63	-10.52	-1.29	23.94	-2.97	<b>S15.1D</b>	ELS3	116.61	-639.56	-18.82	13.97	17.77	-1.95	5.42	-0.64
<b>S14.5D</b>	ELU5	944.11	37.13	245.71	22.87	5.48	6.03	23.94	-2.97	<b>S15.1D</b>	ELS3	118.09	-632.13	-18.50	0.26	15.98	1.96	5.42	-0.64
<b>S14.5D</b>	ELU5	1397.73	127.84	-20.21	29.45	-0.80	8.93	23.94	-2.97	<b>S15.1I</b>	ELU5	-14.93	-1166.49	-30.82	-0.84	34.35	-7.59	0.59	-3.28
<b>S14.5D</b>	ELU5	1462.10	449.71	-215.21	-30.80	-16.89	1.61	23.94	-2.97	<b>S15.1I</b>	ELU5	28.77	-948.03	-26.63	0.88	28.72	2.97	0.59	-3.28
<b>S14.5D</b>	ELS3	776.07	234.99	39.32	-27.99	-6.39	-0.55	20.24	-3.94	<b>S15.1I</b>	ELU5	155.37	-922.71	-29.00	10.03	22.66	-0.58	0.59	-3.28
<b>S14.5D</b>	ELS3	737.45	41.90	162.80	22.21	5.82	0.91	20.24	-3.94	<b>S15.1I</b>	ELU5	111.68	-1141.17	-33.19	8.78	26.46	-11.14	0.59	-3.28
<b>S14.5D</b>	ELS3	1145.75	123.55	42.92	22.46	-2.57	2.39	20.24	-3.94	<b>S15.1I</b>	ELS3	119.46	-625.32	12.24	0.40	16.64	-2.01	5.42	-0.17
<b>S14.5D</b>	ELS3	1184.37	316.64	-80.56	-28.60	-14.74	0.93	20.24	-3.94	<b>S15.1I</b>	ELS3	117.39	-635.66	13.77	14.11	18.44	1.88	5.42	-0.17
<b>S14.5I</b>	ELU5	1400.86	365.92	153.73	-30.09	-15.86	-1.47	22.69	3.55	<b>S15.1I</b>	ELS3	219.54	-615.23	37.74	17.86	18.35	1.43	5.42	-0.17
<b>S14.5I</b>	ELU5	1351.56	119.43	-29.64	27.09	-1.55	-6.57	22.69	3.55	<b>S15.1I</b>	ELS3	221.61	-604.89	36.21	4.44	16.01	-2.46	5.42	-0.17
<b>S14.5I</b>	ELU5	922.35	33.59	-250.08	22.99	6.00	-4.47	22.69	3.55	<b>S15.2D</b>	ELU5	329.69	-1130.65	-31.69	0.83	21.48	7.37	-0.10	10.63
<b>S14.5I</b>	ELU5	971.66	280.09	-66.71	-33.35	-8.28	0.63	22.69	3.55	<b>S15.2D</b>	ELU5	370.34	-927.41	-4.14	0.82	15.73	6.44	-0.10	10.63
<b>S14.5I</b>	ELS3	1180.17	315.12	80.63	-28.42	-14.69	-0.98	20.12	3.93	<b>S15.2D</b>	ELU5	140.69	-973.34	-14.23	4.14	38.11	2.24	-0.10	10.63
<b>S14.5I</b>	ELS3	1141.87	123.63	-41.53	22.34	-2.60	-2.42	20.12	3.93	<b>S15.2D</b>	ELU5	100.05	-1176.58	-41.78	4.65	44.34	3.17	-0.10	10.63
<b>S14.5I</b>	ELS3	735.91	42.44	-163.69	22.11	5.79	-0.96	20.12	3.93	<b>S15.2D</b>	ELS3	363.71	-530.90	-48.01	-0.34	7.88	-1.03	5.71	7.48
<b>S14.5I</b>	ELS3	774.21	233.93	-41.53	-27.79	-6.34	0.49	20.12	3.93	<b>S15.2D</b>	ELS3	354.15	-578.71	-38.09	14.18	10.65	1.59	5.71	7.48
<b>S14.6D</b>	ELU5	1051.51	141.35	-2.37	-34.77	-0.91	0.38	22.33	-9.19	<b>S15.2D</b>	ELS3	221.75	-605.19	-52.17	19.80	26.81	1.70	5.71	7.48
<b>S14.6D</b>	ELU5	1034.56	56.57	-60.81	20.95	11.77	1.96	22.33	-9.19	<b>S15.2D</b>	ELS3	231.31	-557.38	-62.09	5.73	23.56	-0.92	5.71	7.48
<b>S14.6D</b>	ELU5	944.41	38.55	16.03	18.81	-7.66	3.14	22.33	-9.19	<b>S15.2I</b>	ELU5	143.47	-982.19	0.19	10.10	41.54	-6.38	2.21	-13.00
<b>S14.6D</b>	ELU5	961.35	123.32	74.47	-37.21	-20.60	1.56	22.33	-9.19	<b>S15.2I</b>	ELU5	159.30	-903.05	-29.63	15.34	40.72	-5.12	2.21	-13.00
<b>S14.6D</b>	ELS3	789.91	102.38	2.41	-22.69	2.48	0.58	18.70	-9.50	<b>S15.2I</b>	ELU5	368.85	-861.14	-46.18	11.40	13.35	-6.28	2.21	-13.00
<b>S14.6D</b>	ELS3	778.39	44.77	-33.03	23.93	12.50	-1.34	18.70	-9.50	<b>S15.2I</b>	ELU5	353.02	-940.28	-16.36	5.59	13.62	-7.55	2.21	-13.00
<b>S14.6D</b>	ELS3	736.35	36.36	13.87	18.10	-7.64	-0.81	18.70	-9.50	<b>S15.2I</b>	ELS3	232.72	-549.31	64.51	5.64	23.08	0.88	5.70	-7.34
<b>S14.6D</b>	ELS3	747.87	93.98	49.30	-28.86	-17.80	1.11	18.70	-9.50	<b>S15.2I</b>	ELS3	223.53	-595.27	51.75	19.67	26.32	-1.76	5.70	-7.34
<b>S14.6I</b>	ELU5	935.01	96.86	-75.64	-34.05	-19.26	-1.56	21.06	9.75	<b>S15.2I</b>	ELS3	357.85	-568.40	31.27	14.08	10.47	-1.65	5.70	-7.34
<b>S14.6I</b>	ELU5	921.37	28.63	-28.23	18.78	-7.53	-2.23	21.06	9.75	<b>S15.2I</b>	ELS3	367.04	-522.45	44.03	-0.40	7.71	0.99	5.70	-7.34
<b>S14.6I</b>	ELU5	1017.23	47.80	45.87	22.08	13.10	-1.44	21.06	9.75	<b>S15.3D</b>	ELU5	568.04	-821.91	-54.85	4.39	-3.72	14.59	2.52	26.73
<b>S14.6I</b>	ELU5	1030.87	116.03	-1.55	-30.43	1.58	-0.77	21.06	9.75	<b>S15.3D</b>	ELU5	585.14	-736.38	-58.77	10.86	-4.28	3.52	2.52	26.73
<b>S14.6I</b>	ELS3	746.16	93.71	-49.99	-28.66	-17.75	-1.15	18.59	9.49	<b>S15.3D</b>	ELU5	401.18	-773.17	-28.68	10.75	51.47	1.43	2.52	26.73
<b>S14.6I</b>	ELS3	734.69	36.31	-15.11	18.01	-7.67	0.74	18.59	9.49	<b>S15.3D</b>	ELU5	384.08	-858.70	-24.76	4.61	54.27	12.51	2.52	26.73
<b>S14.6I</b>	ELS3	776.38	44.65	33.22	23.80	12.46	1.26	18.59	9.49	<b>S15.3D</b>	ELS3	497.98	-407.25	-74.89	-0.16	-4.56	2.36	6.21	15.53
<b>S14.6I</b>	ELS3	787.86	102.04	-1.66	-22.54	2.52	-0.63	18.59	9.49	<b>S15.3D</b>	ELS3	496.47	-414.80	-98.68	15.53	-2.18	-0.85	6.21	15.53
<b>S15.1D</b>	ELU5	90.02	-1226.71	8.99	3.81	38.47	3.94	-0.50	-5.50	<b>S15.3D</b>	ELS3	382.37	-437.62	-45.00	18.68	30.94	-1.31	6.21	15.53
<b>S15.1D</b>	ELU5	146.49	-944.38	-21.59	2.40	31.12	1.55	-0.50	-5.50	<b>S15.3D</b>	ELS3	383.88	-430.07	-21.21	3.32	28.40	1.91	6.21	15.53
<b>S15.1D</b>	ELU5	24.62	-968.75	-23.58	-2.20	19.52	-3.40	-0.50	-5.50	<b>S15.3I</b>	ELU5	404.78	-681.46	-38.99	9.78	45.35	-9.71	4.30	-23.87
<b>S15.1D</b>	ELU5	-31.84	-1251.08	7.00	-1.13	26.65	-1.01	-0.50	-5.50	<b>S15.3I</b>	ELU5	407.72	-666.79	-16.45	20.29	47.05	-4.15	4.30	-23.87
<b>S15.1D</b>	ELS3	220.46	-611.66	-35.28	4.67	17.08	2.42	5.42	-0.64	<b>S15.3I</b>	ELU5	553.80	-637.57	20.49	16.08	-3.29	-4.15	4.30	-23.87



<b>S15.3I</b>	ELU5	550.87	-652.24	-2.04	5.08	-5.86	-9.72	4.30	-23.87	<b>S15.6D</b>	ELU5	966.40	14.03	-21.46	21.03	11.46	8.30	7.15	-7.91
<b>S15.3I</b>	ELS3	386.88	-423.24	14.53	3.21	27.88	-1.99	6.18	-15.26	<b>S15.6D</b>	ELU5	1039.05	28.57	127.28	23.69	-5.27	8.69	7.15	-7.91
<b>S15.3I</b>	ELS3	385.03	-432.54	42.67	18.50	30.41	1.29	6.18	-15.26	<b>S15.6D</b>	ELU5	1045.07	58.68	73.69	5.85	-9.48	2.76	7.15	-7.91
<b>S15.3I</b>	ELS3	495.54	-410.43	100.33	15.53	-2.14	0.83	6.18	-15.26	<b>S15.6D</b>	ELS3	718.35	32.76	-41.33	0.48	7.03	-0.93	6.94	-8.16
<b>S15.3I</b>	ELS3	497.40	-401.14	72.18	-0.09	-4.49	-2.44	6.18	-15.26	<b>S15.6D</b>	ELS3	717.07	26.34	1.74	17.80	10.10	2.83	6.94	-8.16
<b>S15.4D</b>	ELU5	518.68	-271.79	-323.89	1.14	-28.38	8.92	5.75	32.51	<b>S15.6D</b>	ELS3	784.63	39.85	98.00	18.22	-7.24	2.55	6.94	-8.16
<b>S15.4D</b>	ELU5	507.86	-325.91	-109.93	15.65	-21.17	4.13	5.75	32.51	<b>S15.6D</b>	ELS3	785.92	46.28	54.93	0.80	-10.32	-1.21	6.94	-8.16
<b>S15.4D</b>	ELU5	673.88	-292.72	72.87	24.42	47.20	6.64	5.75	32.51	<b>S15.6I</b>	ELU5	979.46	40.25	-87.48	3.24	-9.84	-1.89	7.09	8.41
<b>S15.4D</b>	ELU5	684.70	-238.60	-141.09	10.18	41.56	11.44	5.75	32.51	<b>S15.6I</b>	ELU5	977.28	29.29	-136.38	20.97	-6.12	-7.38	7.09	8.41
<b>S15.4D</b>	ELS3	420.37	-160.08	-175.80	-2.49	-16.64	1.09	6.92	18.36	<b>S15.6I</b>	ELU5	925.70	18.97	5.04	18.94	11.71	-7.30	7.09	8.41
<b>S15.4D</b>	ELS3	430.96	-107.12	-37.99	15.01	-13.16	0.24	6.92	18.36	<b>S15.6I</b>	ELU5	927.89	29.93	53.94	1.20	8.12	-1.81	7.09	8.41
<b>S15.4D</b>	ELS3	563.30	-80.66	-73.19	21.74	25.99	0.33	6.92	18.36	<b>S15.6I</b>	ELS3	783.32	46.04	-54.64	0.77	-10.34	1.12	6.90	8.16
<b>S15.4D</b>	ELS3	552.70	-133.62	-211.01	4.64	22.32	1.18	6.92	18.36	<b>S15.6I</b>	ELS3	782.15	40.21	-97.05	18.07	-7.26	-2.58	6.90	8.16
<b>S15.4I</b>	ELU5	644.79	-182.62	102.66	10.89	33.04	-7.26	6.32	-26.86	<b>S15.6I</b>	ELS3	714.16	26.61	-2.89	17.72	10.09	-2.84	6.90	8.16
<b>S15.4I</b>	ELU5	644.51	-184.04	-94.92	26.45	38.73	-6.59	6.32	-26.86	<b>S15.6I</b>	ELS3	715.32	32.44	39.52	0.50	7.03	0.86	6.90	8.16
<b>S15.4I</b>	ELU5	497.83	-213.37	53.10	15.98	-18.23	-4.67	6.32	-26.86	<b>S16.1D</b>	ELU5	115.16	-950.65	-18.30	16.10	32.45	-0.35	-5.97	-3.42
<b>S15.4I</b>	ELU5	498.11	-211.95	250.69	-0.09	-24.28	-5.34	6.32	-26.86	<b>S16.1D</b>	ELU5	124.76	-902.69	-34.61	1.19	27.56	1.93	-5.97	-3.42
<b>S15.4I</b>	ELS3	551.24	-131.95	210.60	4.64	21.98	-1.20	6.88	-18.11	<b>S16.1D</b>	ELU5	32.91	-921.06	-41.82	2.03	20.71	0.87	-5.97	-3.42
<b>S15.4I</b>	ELS3	561.95	-78.42	67.60	21.64	25.62	-0.41	6.88	-18.11	<b>S16.1D</b>	ELU5	23.32	-969.02	-25.51	17.01	24.77	-1.40	-5.97	-3.42
<b>S15.4I</b>	ELS3	432.42	-104.32	33.63	14.95	-13.00	-0.33	6.88	-18.11	<b>S16.1D</b>	ELS3	195.09	-623.87	-15.19	13.72	18.47	-1.71	-2.16	0.10
<b>S15.4I</b>	ELS3	421.71	-157.86	176.62	-2.45	-16.45	-1.12	6.88	-18.11	<b>S16.1D</b>	ELS3	192.39	-637.36	-19.89	8.44	17.33	1.32	-2.16	0.10
<b>S15.5D</b>	ELU5	1044.80	57.27	303.45	8.18	1.51	7.12	7.01	-2.96	<b>S16.1D</b>	ELS3	62.46	-663.34	-7.27	11.47	17.81	1.46	-2.16	0.10
<b>S15.5D</b>	ELU5	1055.20	109.31	212.07	25.83	6.05	4.30	7.01	-2.96	<b>S16.1D</b>	ELS3	65.16	-649.86	-2.57	16.97	18.44	-1.58	-2.16	0.10
<b>S15.5D</b>	ELU5	575.72	13.40	-92.14	21.58	-0.18	5.08	7.01	-2.96	<b>S16.1I</b>	ELU5	27.46	-948.28	-46.65	17.55	30.79	1.74	-5.44	-3.10
<b>S15.5D</b>	ELU5	565.31	-38.64	-0.76	4.16	-4.84	7.90	7.01	-2.96	<b>S16.1I</b>	ELU5	40.35	-883.87	-34.91	3.80	26.31	-2.14	-5.44	-3.10
<b>S15.5D</b>	ELS3	787.03	51.81	203.94	2.77	0.53	1.66	7.19	-2.97	<b>S16.1I</b>	ELU5	138.71	-864.20	-39.33	-1.32	19.57	-3.49	-5.44	-3.10
<b>S15.5D</b>	ELS3	801.82	125.76	134.97	20.71	4.20	-0.32	7.19	-2.97	<b>S16.1I</b>	ELU5	125.83	-928.61	-51.06	12.13	24.34	0.39	-5.44	-3.10
<b>S15.5D</b>	ELS3	464.03	58.20	48.45	17.49	-2.13	-0.27	7.19	-2.97	<b>S16.1I</b>	ELS3	65.94	-645.95	6.96	17.10	19.11	1.52	-2.16	-0.92
<b>S15.5D</b>	ELS3	449.24	-15.75	117.42	-0.55	-5.77	1.70	7.19	-2.97	<b>S16.1I</b>	ELS3	64.10	-655.14	10.62	11.59	18.47	-1.51	-2.16	-0.92
<b>S15.5I</b>	ELU5	531.58	-44.57	-55.84	2.76	-5.15	-5.75	7.10	2.97	<b>S16.1I</b>	ELS3	196.06	-628.75	12.09	8.22	16.24	-1.39	-2.16	-0.92
<b>S15.5I</b>	ELU5	547.86	36.80	17.46	20.46	-0.98	-4.30	7.10	2.97	<b>S16.1I</b>	ELS3	197.89	-619.56	8.42	13.51	17.41	1.64	-2.16	-0.92
<b>S15.5I</b>	ELU5	996.74	126.59	-236.11	23.26	5.29	-3.90	7.10	2.97	<b>S16.2I</b>	ELU5	129.76	-908.95	-52.87	15.18	39.52	-4.64	-5.62	-11.03
<b>S15.5I</b>	ELU5	980.47	45.22	-309.41	5.45	1.23	-5.35	7.10	2.97	<b>S16.2I</b>	ELU5	149.47	-810.39	-62.72	1.44	33.46	1.34	-5.62	-11.03
<b>S15.5I</b>	ELS3	450.35	-14.67	-116.08	-0.54	-5.78	-1.74	7.15	2.97	<b>S16.2I</b>	ELU5	343.44	-771.60	-20.87	2.52	10.41	-0.67	-5.62	-11.03
<b>S15.5I</b>	ELS3	464.82	57.69	-49.55	17.38	-2.16	0.19	7.15	2.97	<b>S16.2I</b>	ELU5	323.73	-870.16	-11.02	16.91	15.63	-6.64	-5.62	-11.03
<b>S15.5I</b>	ELS3	799.02	124.53	-136.77	20.56	4.17	0.24	7.15	2.97	<b>S16.2I</b>	ELS3	201.88	-599.60	21.54	15.75	25.92	-1.47	-2.68	-7.25
<b>S15.5I</b>	ELS3	784.55	52.17	-203.29	2.74	0.52	-1.69	7.15	2.97	<b>S16.2I</b>	ELS3	203.18	-593.11	8.37	9.25	24.05	1.60	-2.68	-7.25
<b>S15.6D</b>	ELU5	972.42	44.15	-75.06	3.12	7.43	2.37	7.15	-7.91	<b>S16.2I</b>	ELS3	340.39	-565.67	54.22	9.09	8.66	1.24	-2.68	-7.25





<b>S16.2I</b>	ELS3	339.09	-572.16	67.39	16.01	10.47	-1.82	-2.68	-7.25	<b>S16.5D</b>	ELS3	713.00	265.47	37.59	-1.11	-1.86	2.54	-6.45	-3.23
<b>S16.3D</b>	ELU5	656.24	-722.15	79.63	16.29	-1.02	3.01	-7.80	25.08	<b>S16.5D</b>	ELS3	639.96	250.85	75.59	-0.48	-9.03	0.77	-6.45	-3.23
<b>S16.3D</b>	ELU5	660.27	-702.02	64.44	-3.58	-6.02	3.94	-7.80	25.08	<b>S16.5D</b>	ELS3	607.15	86.81	114.81	15.66	-3.01	-1.21	-6.45	-3.23
<b>S16.3D</b>	ELU5	357.62	-762.57	-70.56	8.38	47.02	2.94	-7.80	25.08	<b>S16.5I</b>	ELU5	751.62	77.55	-56.52	20.44	-1.94	-3.08	-8.79	3.74
<b>S16.3D</b>	ELU5	353.59	-782.70	-55.37	27.53	52.64	2.01	-7.80	25.08	<b>S16.5I</b>	ELU5	787.20	255.48	2.43	-1.65	-9.39	-4.26	-8.79	3.74
<b>S16.3D</b>	ELS3	537.80	-406.54	-1.03	12.04	-3.58	-1.16	-3.80	16.92	<b>S16.5I</b>	ELU5	879.36	273.91	-105.35	-1.16	-1.15	-6.22	-8.79	3.74
<b>S16.3D</b>	ELS3	530.91	-440.99	-20.99	2.31	-5.53	1.36	-3.80	16.92	<b>S16.5I</b>	ELU5	843.77	95.97	-164.31	20.73	5.73	-5.05	-8.79	3.74
<b>S16.3D</b>	ELS3	359.66	-475.25	-92.62	12.27	30.67	1.47	-3.80	16.92	<b>S16.5I</b>	ELS3	605.69	85.85	-114.59	15.59	-3.03	1.13	-6.42	3.24
<b>S16.3D</b>	ELS3	366.55	-440.79	-72.66	21.57	32.21	-1.05	-3.80	16.92	<b>S16.5I</b>	ELS3	638.59	250.39	-73.47	-0.49	-9.02	-0.80	-6.42	3.24
<b>S16.3I</b>	ELU5	362.60	-675.82	17.25	23.84	46.83	-3.75	-6.39	-23.15	<b>S16.5I</b>	ELS3	709.35	264.54	-41.10	-1.06	-1.85	-2.57	-6.42	3.24
<b>S16.3I</b>	ELU5	364.23	-667.64	25.43	8.23	42.36	-3.54	-6.39	-23.15	<b>S16.5I</b>	ELS3	676.44	100.01	-82.22	14.98	3.57	-0.64	-6.42	3.24
<b>S16.3I</b>	ELU5	618.01	-616.87	-96.37	-1.75	-6.63	-4.27	-6.39	-23.15	<b>S16.6D</b>	ELU5	833.17	-12.62	106.48	28.43	13.31	8.74	-8.94	-9.26
<b>S16.3I</b>	ELU5	616.38	-625.05	-104.56	14.59	-2.65	-4.48	-6.39	-23.15	<b>S16.6D</b>	ELU5	856.94	106.26	121.51	6.21	8.17	4.13	-8.94	-9.26
<b>S16.3I</b>	ELS3	366.26	-436.30	77.69	21.46	31.71	1.03	-3.79	-16.67	<b>S16.6D</b>	ELU5	930.14	120.91	54.31	-2.57	-11.54	3.65	-8.94	-9.26
<b>S16.3I</b>	ELS3	359.67	-469.26	90.67	12.19	30.17	-1.58	-3.79	-16.67	<b>S16.6D</b>	ELU5	906.37	2.02	39.28	19.94	-6.39	8.26	-8.94	-9.26
<b>S16.3I</b>	ELS3	534.38	-434.31	11.45	2.23	-5.50	-1.47	-3.79	-16.67	<b>S16.6D</b>	ELS3	582.29	-0.63	100.80	17.69	10.22	2.85	-5.71	-8.88
<b>S16.3I</b>	ELS3	540.98	-401.35	-1.53	11.93	-3.56	1.14	-3.79	-16.67	<b>S16.6D</b>	ELS3	601.63	96.08	109.10	3.49	6.98	0.79	-5.71	-8.88
<b>S16.4D</b>	ELU5	775.28	-272.43	61.01	18.18	-20.19	5.52	-9.32	31.74	<b>S16.6D</b>	ELS3	682.36	112.23	47.29	-2.46	-11.93	0.50	-5.71	-8.88
<b>S16.4D</b>	ELU5	697.56	-661.01	83.23	-5.62	-25.14	1.87	-9.32	31.74	<b>S16.6D</b>	ELS3	663.02	15.52	39.00	11.90	-8.64	2.56	-5.71	-8.88
<b>S16.4D</b>	ELU5	667.26	-667.05	234.29	4.62	42.37	1.65	-9.32	31.74	<b>S16.6I</b>	ELU5	824.31	-1.31	-63.69	17.24	-7.15	-7.17	-7.76	9.50
<b>S16.4D</b>	ELU5	744.98	-278.47	212.07	27.44	47.34	5.30	-9.32	31.74	<b>S16.6I</b>	ELU5	847.11	112.70	-75.74	-2.32	-11.52	-4.05	-7.76	9.50
<b>S16.4D</b>	ELS3	574.09	-78.49	67.48	12.57	-14.79	0.13	-5.51	19.74	<b>S16.6I</b>	ELU5	778.32	98.93	-119.54	5.04	8.68	-4.41	-7.76	9.50
<b>S16.4D</b>	ELS3	510.18	-398.03	110.32	-1.45	-17.53	-0.56	-5.51	19.74	<b>S16.6I</b>	ELU5	755.52	-15.07	-107.49	24.32	13.07	-7.53	-7.76	9.50
<b>S16.4D</b>	ELS3	540.72	-391.93	67.62	6.49	24.89	-0.25	-5.51	19.74	<b>S16.6I</b>	ELS3	659.58	15.69	-41.66	11.88	-8.63	-2.56	-5.68	8.86
<b>S16.4D</b>	ELS3	604.63	-72.39	24.78	20.01	26.79	0.43	-5.51	19.74	<b>S16.6I</b>	ELS3	678.70	111.32	-51.14	-2.42	-11.95	-0.60	-5.68	8.86
<b>S16.4I</b>	ELU5	707.09	-171.50	-220.37	24.51	38.76	-5.92	-7.94	-26.96	<b>S16.6I</b>	ELS3	597.78	95.13	-107.53	3.42	6.94	-0.92	-5.68	8.86
<b>S16.4I</b>	ELU5	627.95	-567.18	-253.48	5.09	35.78	-2.82	-7.94	-26.96	<b>S16.6I</b>	ELS3	578.65	-0.50	-98.06	17.56	10.19	-2.88	-5.68	8.86
<b>S16.4I</b>	ELU5	622.45	-568.29	-99.91	-3.64	-21.67	-2.19	-7.94	-26.96	<b>S17.1D</b>	ELU5	165.27	-894.61	-54.82	1.49	27.17	1.85	13.08	-3.32
<b>S16.4I</b>	ELU5	701.58	-172.62	-66.80	16.67	-18.50	-5.28	-7.94	-26.96	<b>S17.1D</b>	ELU5	172.10	-860.45	-29.65	34.24	32.38	-0.90	13.08	-3.32
<b>S16.4I</b>	ELS3	607.38	-69.33	-34.59	19.82	26.40	-0.53	-5.49	-19.49	<b>S17.1D</b>	ELU5	-8.85	-896.64	-44.18	30.00	25.20	-1.92	13.08	-3.32
<b>S16.4I</b>	ELS3	543.22	-390.14	-68.65	6.34	24.53	0.22	-5.49	-19.49	<b>S17.1D</b>	ELU5	-15.69	-930.80	-69.36	-2.71	20.21	0.83	13.08	-3.32
<b>S16.4I</b>	ELS3	509.12	-396.95	-104.37	-1.42	-17.36	0.53	-5.49	-19.49	<b>S17.1D</b>	ELS3	187.52	-638.34	-25.11	2.01	16.12	1.51	11.86	-0.46
<b>S16.4I</b>	ELS3	573.29	-76.14	-70.30	12.54	-14.63	-0.21	-5.49	-19.49	<b>S17.1D</b>	ELS3	189.74	-627.23	-3.73	31.65	21.71	-0.86	11.86	-0.46
<b>S16.5D</b>	ELU5	922.51	82.75	124.90	23.57	6.77	5.83	-10.07	-3.91	<b>S17.1D</b>	ELS3	12.57	-662.67	-13.62	29.05	20.57	-1.22	11.86	-0.46
<b>S16.5D</b>	ELU5	961.54	277.89	62.86	-1.52	-1.27	6.14	-10.07	-3.91	<b>S17.1D</b>	ELS3	10.35	-673.78	-35.00	-0.63	15.31	1.16	11.86	-0.46
<b>S16.5D</b>	ELU5	882.17	262.03	-32.44	-2.95	-9.92	3.78	-10.07	-3.91	<b>S17.1I</b>	ELU5	-8.24	-893.59	-6.86	-1.84	24.72	-2.32	13.06	-1.83
<b>S16.5D</b>	ELU5	843.14	66.88	29.61	22.33	-1.21	3.46	-10.07	-3.91	<b>S17.1I</b>	ELU5	-3.78	-871.26	-30.28	30.93	29.71	1.14	13.06	-1.83
<b>S16.5D</b>	ELS3	680.20	101.43	76.81	15.00	3.57	0.57	-6.45	-3.23	<b>S17.1I</b>	ELU5	164.38	-837.63	-37.50	33.58	26.14	0.28	13.06	-1.83



<b>S17.1I</b>	ELU5	159.91	-859.96	-14.08	1.03	20.51	-3.17	13.06	-1.83	<b>S17.6I</b>	ELU5	687.54	102.00	-47.33	33.69	-5.85	-3.60	19.86	8.84
<b>S17.1I</b>	ELS3	11.99	-665.57	24.38	-0.48	15.99	-1.23	11.86	-0.38	<b>S17.6I</b>	ELU5	620.36	88.58	38.84	37.22	12.90	-4.91	19.86	8.84
<b>S17.1I</b>	ELS3	12.69	-662.10	6.12	29.20	21.29	1.10	11.86	-0.38	<b>S17.6I</b>	ELU5	615.94	66.46	-18.29	-12.26	4.90	-4.88	19.86	8.84
<b>S17.1I</b>	ELS3	189.84	-626.67	12.98	31.40	20.63	0.77	11.86	-0.38	<b>S17.6I</b>	ELS3	539.43	83.45	-80.61	-15.34	-14.20	-0.22	17.54	8.26
<b>S17.1I</b>	ELS3	189.14	-630.14	31.23	1.76	15.01	-1.56	11.86	-0.38	<b>S17.6I</b>	ELS3	543.35	103.02	-30.93	28.73	-6.94	-1.10	17.54	8.26
<b>S17.2I</b>	ELU5	170.68	-806.14	-39.44	2.45	32.73	0.45	14.06	-10.90	<b>S17.6I</b>	ELS3	470.30	88.43	28.56	31.14	10.59	-2.19	17.54	8.26
<b>S17.2I</b>	ELU5	174.91	-784.98	-22.92	37.22	39.23	-3.17	14.06	-10.90	<b>S17.6I</b>	ELS3	466.39	68.85	-21.12	-12.55	3.40	-1.31	17.54	8.26
<b>S17.2I</b>	ELU5	337.82	-752.39	-50.36	29.29	16.00	-3.57	14.06	-10.90	<b>S18.1D</b>	ELU5	212.51	-852.36	-7.97	16.68	29.12	-0.98	4.96	-2.95
<b>S17.2I</b>	ELU5	333.58	-773.55	-66.88	-6.26	9.59	0.06	14.06	-10.90	<b>S18.1D</b>	ELU5	212.72	-851.28	-23.20	29.26	30.24	1.45	4.96	-2.95
<b>S17.2I</b>	ELS3	196.27	-594.50	25.93	2.40	22.37	1.33	12.76	-7.67	<b>S18.1D</b>	ELU5	-29.15	-899.67	-43.93	30.31	24.26	0.70	4.96	-2.95
<b>S17.2I</b>	ELS3	196.87	-591.52	30.91	33.91	29.02	-1.97	12.76	-7.67	<b>S18.1D</b>	ELU5	-29.36	-900.74	-28.70	18.08	22.56	-1.73	4.96	-2.95
<b>S17.2I</b>	ELS3	331.56	-564.57	12.97	27.69	12.52	-1.90	12.76	-7.67	<b>S18.1D</b>	ELS3	195.90	-625.99	12.67	13.38	18.32	-0.80	4.60	-0.23
<b>S17.2I</b>	ELS3	330.97	-567.55	7.99	-4.63	6.23	1.41	12.76	-7.67	<b>S18.1D</b>	ELS3	196.06	-625.18	2.43	25.02	19.88	1.46	4.60	-0.23
<b>S17.3I</b>	ELU5	354.37	-669.60	-23.23	-2.74	38.83	-3.22	16.28	-21.44	<b>S18.1D</b>	ELS3	-12.50	-666.89	-1.76	27.10	19.58	1.07	4.60	-0.23
<b>S17.3I</b>	ELU5	386.65	-508.23	-98.12	37.37	44.80	-0.26	16.28	-21.44	<b>S18.1D</b>	ELS3	-12.66	-667.71	8.48	15.71	17.63	-1.19	4.60	-0.23
<b>S17.3I</b>	ELU5	544.75	-476.62	-74.36	31.92	-0.75	-1.75	16.28	-21.44	<b>S18.1I</b>	ELU5	202.01	-819.33	-59.14	27.30	23.78	-2.78	4.92	-2.13
<b>S17.3I</b>	ELU5	512.47	-637.99	0.53	-9.44	-6.83	-4.71	16.28	-21.44	<b>S18.1I</b>	ELU5	199.77	-830.53	-72.44	14.87	22.68	0.23	4.92	-2.13
<b>S17.3I</b>	ELS3	350.25	-471.16	42.37	-2.40	26.71	-1.20	14.67	-15.91	<b>S18.1I</b>	ELU5	-24.29	-875.36	-39.12	18.97	27.03	1.06	4.92	-2.13
<b>S17.3I</b>	ELS3	372.42	-360.27	-23.40	33.68	33.19	0.75	14.67	-15.91	<b>S18.1I</b>	ELU5	-22.05	-864.15	-25.81	31.16	28.52	-1.96	4.92	-2.13
<b>S17.3I</b>	ELS3	469.07	-340.96	21.26	29.54	-0.81	0.03	14.67	-15.91	<b>S18.1I</b>	ELS3	203.86	-613.73	-14.49	24.83	18.71	-1.53	4.60	-0.64
<b>S17.3I</b>	ELS3	446.90	-451.84	87.03	-7.79	-6.97	-1.91	14.67	-15.91	<b>S18.1I</b>	ELS3	201.75	-624.27	-23.28	13.20	17.23	0.68	4.60	-0.64
<b>S17.4I</b>	ELU5	522.42	-588.25	-157.70	-5.31	32.23	-1.67	19.92	-26.12	<b>S18.1I</b>	ELS3	-12.55	-667.14	6.61	15.86	18.37	1.10	4.60	-0.64
<b>S17.4I</b>	ELU5	605.82	-171.24	5.39	43.67	39.58	-4.76	19.92	-26.12	<b>S18.1I</b>	ELS3	-10.44	-656.60	15.40	27.22	20.28	-1.10	4.60	-0.64
<b>S17.4I</b>	ELU5	1343.89	-23.73	265.62	30.27	-15.79	-6.46	19.92	-26.12	<b>S18.2D</b>	ELU5	398.19	-812.59	6.55	17.01	19.17	2.85	5.22	7.12
<b>S17.4I</b>	ELU5	1260.49	-440.74	102.53	-20.40	-23.54	-3.36	19.92	-26.12	<b>S18.2D</b>	ELU5	406.57	-770.71	61.77	30.15	20.01	0.28	5.22	7.12
<b>S17.4I</b>	ELS3	455.74	-407.64	6.11	-5.12	21.37	0.84	17.76	-19.34	<b>S18.2D</b>	ELU5	221.43	-807.75	32.49	30.48	35.12	-1.01	5.22	7.12
<b>S17.4I</b>	ELS3	521.44	-79.14	122.80	38.50	28.97	-2.70	17.76	-19.34	<b>S18.2D</b>	ELU5	213.05	-849.63	-22.73	17.49	34.38	1.56	5.22	7.12
<b>S17.4I</b>	ELS3	1111.75	38.89	213.85	27.50	-12.21	-3.62	17.76	-19.34	<b>S18.2D</b>	ELS3	341.07	-571.96	10.84	13.93	11.03	2.20	4.75	6.32
<b>S17.4I</b>	ELS3	1046.05	-289.62	97.15	-17.75	-19.74	-0.08	17.76	-19.34	<b>S18.2D</b>	ELS3	348.86	-533.04	63.97	25.85	12.34	0.08	4.75	6.32
<b>S17.5I</b>	ELU5	1425.27	383.13	129.93	-19.59	-12.52	-6.01	21.65	3.69	<b>S18.2D</b>	ELS3	208.89	-561.04	42.09	26.33	25.74	-0.70	4.75	6.32
<b>S17.5I</b>	ELU5	1386.04	187.00	11.71	34.92	0.54	-4.16	21.65	3.69	<b>S18.2D</b>	ELS3	201.11	-599.96	-11.04	14.48	24.51	1.42	4.75	6.32
<b>S17.5I</b>	ELU5	676.13	44.94	-253.19	38.02	8.25	-2.66	21.65	3.69	<b>S18.2I</b>	ELU5	375.82	-706.49	-117.03	28.53	15.48	-1.24	5.04	-8.98
<b>S17.5I</b>	ELU5	715.36	241.08	-134.96	-15.79	-4.55	-4.52	21.65	3.69	<b>S18.2I</b>	ELU5	367.84	-746.38	-66.39	15.93	14.64	-3.96	5.04	-8.98
<b>S17.5I</b>	ELS3	1175.53	357.80	64.84	-17.22	-11.85	-2.40	19.12	3.13	<b>S18.2I</b>	ELU5	210.30	-777.89	-57.86	16.95	33.87	-2.68	5.04	-8.98
<b>S17.5I</b>	ELS3	1141.65	188.40	-38.97	30.93	-0.30	-1.67	19.12	3.13	<b>S18.2I</b>	ELU5	218.28	-738.00	-108.51	29.58	34.44	0.04	5.04	-8.98
<b>S17.5I</b>	ELS3	536.20	67.27	-175.31	32.68	6.29	-0.30	19.12	3.13	<b>S18.2I</b>	ELS3	348.58	-533.45	-47.54	25.81	12.11	-0.18	4.75	-6.24
<b>S17.5I</b>	ELS3	570.08	236.67	-71.50	-14.83	-5.11	-1.03	19.12	3.13	<b>S18.2I</b>	ELS3	342.80	-562.32	-4.75	13.89	10.79	-2.27	4.75	-6.24
<b>S17.6I</b>	ELU5	683.12	79.87	-104.47	-16.17	-13.98	-3.57	19.86	8.84	<b>S18.2I</b>	ELS3	208.78	-589.12	-5.34	14.45	24.10	-1.50	4.75	-6.24



<b>S18.2I</b>	ELS3	214.56	-560.25	-48.14	26.29	25.37	0.59	4.75	-6.24	<b>S18.6D</b>	ELS3	602.42	41.68	23.61	23.50	-4.41	1.05	6.28	-7.73
<b>S18.3I</b>	ELU5	535.06	-495.37	-142.04	22.45	-0.11	-4.46	5.60	-19.52	<b>S18.6D</b>	ELS3	617.19	115.43	18.38	7.81	-10.40	2.65	6.28	-7.73
<b>S18.3I</b>	ELU5	538.57	-477.84	-120.08	8.37	-2.91	-1.01	5.60	-19.52	<b>S18.6D</b>	ELS3	428.64	77.74	-31.15	12.70	6.14	0.70	6.28	-7.73
<b>S18.3I</b>	ELU5	416.67	-502.22	-114.15	20.24	38.82	-0.87	5.60	-19.52	<b>S18.6I</b>	ELU5	736.21	26.98	-58.70	27.05	-3.18	-3.35	6.99	8.14
<b>S18.3I</b>	ELU5	413.17	-519.75	-136.11	34.21	41.24	-4.33	5.60	-19.52	<b>S18.6I</b>	ELU5	537.01	-12.83	38.12	32.59	14.01	-1.21	6.99	8.14
<b>S18.3I</b>	ELS3	466.14	-364.29	-63.93	20.69	-0.16	-2.53	5.26	-14.55	<b>S18.6I</b>	ELU5	554.68	75.44	52.17	15.04	7.62	-3.21	6.99	8.14
<b>S18.3I</b>	ELS3	470.89	-340.58	-34.63	7.44	-3.21	0.59	5.26	-14.55	<b>S18.6I</b>	ELU5	753.88	115.26	-44.65	9.60	-9.82	-5.35	6.99	8.14
<b>S18.3I</b>	ELS3	383.66	-358.02	-41.12	16.88	27.81	0.34	5.26	-14.55	<b>S18.6I</b>	ELS3	591.53	37.76	-37.69	23.57	-4.44	-1.25	6.28	7.70
<b>S18.3I</b>	ELS3	378.92	-381.73	-70.41	29.95	30.72	-2.78	5.26	-14.55	<b>S18.6I</b>	ELS3	403.23	0.12	29.71	28.27	11.84	0.65	6.28	7.70
<b>S18.4I</b>	ELU5	599.64	-172.46	-40.33	13.84	29.76	-5.18	6.55	-21.57	<b>S18.6I</b>	ELS3	418.85	78.14	39.88	12.52	6.11	-0.72	6.28	7.70
<b>S18.4I</b>	ELU5	633.95	-0.90	-186.77	29.91	31.92	-0.19	6.55	-21.57	<b>S18.6I</b>	ELS3	607.15	115.78	-27.52	7.88	-10.35	-2.62	6.28	7.70
<b>S18.4I</b>	ELU5	453.53	-37.05	-23.86	26.16	-14.02	-1.01	6.55	-21.57	<b>S19.1D</b>	ELU5	16.26	-766.99	1.17	16.80	21.39	-2.18	-5.30	-2.91
<b>S18.4I</b>	ELU5	419.21	-208.61	122.58	9.45	-16.10	-5.99	6.55	-21.57	<b>S19.1D</b>	ELU5	-9.49	-895.74	-38.36	29.89	24.64	0.82	-5.30	-2.91
<b>S18.4I</b>	ELS3	523.25	-78.75	66.91	11.37	20.48	-2.97	6.04	-15.79	<b>S19.1D</b>	ELU5	291.57	-835.51	-3.37	34.34	30.79	1.22	-5.30	-2.91
<b>S18.4I</b>	ELS3	548.84	49.21	-71.02	26.17	23.22	1.12	6.04	-15.79	<b>S19.1D</b>	ELU5	317.32	-706.76	36.17	20.93	27.61	-1.77	-5.30	-2.91
<b>S18.4I</b>	ELS3	363.28	12.08	-25.56	23.96	-10.53	0.80	6.04	-15.79	<b>S19.1D</b>	ELS3	21.24	-556.33	29.50	14.97	17.24	-1.23	-4.25	-0.31
<b>S18.4I</b>	ELS3	337.69	-115.88	112.37	8.51	-12.94	-3.28	6.04	-15.79	<b>S19.1D</b>	ELS3	-0.39	-664.47	-3.91	25.47	19.59	1.17	-4.25	-0.31
<b>S18.5D</b>	ELU5	537.71	-5.91	104.25	12.00	-2.21	2.23	7.87	-1.68	<b>S19.1D</b>	ELS3	243.65	-615.64	32.78	28.19	20.18	1.28	-4.25	-0.31
<b>S18.5D</b>	ELU5	862.21	58.95	221.90	11.84	1.24	3.08	7.87	-1.68	<b>S19.1D</b>	ELS3	265.27	-507.50	66.18	17.40	17.95	-1.11	-4.25	-0.31
<b>S18.5D</b>	ELU5	907.96	287.73	126.24	31.32	4.10	4.15	7.87	-1.68	<b>S19.1I</b>	ELU5	-2.38	-860.19	-49.67	30.66	28.81	-2.15	-5.24	-1.99
<b>S18.5D</b>	ELU5	583.47	222.86	8.59	31.91	0.40	3.30	7.87	-1.68	<b>S19.1I</b>	ELU5	21.76	-739.51	-88.23	17.73	25.63	0.69	-5.24	-1.99
<b>S18.5D</b>	ELS3	369.81	36.25	102.80	10.27	-2.99	0.53	6.31	-1.56	<b>S19.1I</b>	ELU5	292.18	-685.41	-102.05	19.61	21.48	0.35	-5.24	-1.99
<b>S18.5D</b>	ELS3	610.98	84.47	154.26	9.62	0.22	1.16	6.31	-1.56	<b>S19.1I</b>	ELU5	268.04	-806.10	-63.49	32.88	24.49	-2.49	-5.24	-1.99
<b>S18.5D</b>	ELS3	645.72	258.16	80.50	25.22	2.60	2.62	6.31	-1.56	<b>S19.1I</b>	ELS3	1.68	-654.16	-12.48	25.63	20.31	-1.25	-4.24	-0.61
<b>S18.5D</b>	ELS3	404.55	209.94	29.05	26.22	-0.84	1.99	6.31	-1.56	<b>S19.1I</b>	ELS3	20.27	-561.21	-39.80	15.16	18.08	1.10	-4.24	-0.61
<b>S18.5I</b>	ELU5	742.45	58.21	-250.58	11.45	1.25	-3.81	7.00	1.77	<b>S19.1I</b>	ELS3	266.55	-511.95	-39.60	17.16	16.80	1.04	-4.24	-0.61
<b>S18.5I</b>	ELU5	461.34	2.03	-92.18	11.73	-2.42	-3.00	7.00	1.77	<b>S19.1I</b>	ELS3	247.96	-604.91	-12.29	27.89	18.97	-1.30	-4.24	-0.61
<b>S18.5I</b>	ELU5	504.19	216.25	6.91	29.41	-0.15	-4.18	7.00	1.77	<b>S19.2D</b>	ELU5	316.16	-712.54	53.01	21.35	33.22	-0.10	-5.97	7.62
<b>S18.5I</b>	ELU5	785.30	272.43	-151.49	28.78	3.70	-4.98	7.00	1.77	<b>S19.2D</b>	ELU5	300.28	-791.96	54.46	36.16	36.44	-0.49	-5.97	7.62
<b>S18.5I</b>	ELS3	599.99	80.03	-171.97	9.68	0.25	-1.29	6.31	1.58	<b>S19.2D</b>	ELU5	492.84	-753.41	113.52	32.64	20.33	-0.24	-5.97	7.62
<b>S18.5I</b>	ELS3	367.58	33.57	-106.23	10.23	-3.00	-0.66	6.31	1.58	<b>S19.2D</b>	ELU5	508.72	-673.99	112.08	17.62	16.91	0.14	-5.97	7.62
<b>S18.5I</b>	ELS3	403.00	210.70	-22.42	26.19	-0.85	-2.01	6.31	1.58	<b>S19.2D</b>	ELS3	267.94	-494.18	74.54	18.16	24.50	0.40	-4.79	6.83
<b>S18.5I</b>	ELS3	635.41	257.16	-88.15	25.30	2.61	-2.65	6.31	1.58	<b>S19.2D</b>	ELS3	256.48	-551.49	73.84	30.04	26.71	-0.27	-4.79	6.83
<b>S18.6D</b>	ELU5	657.65	-5.80	-37.20	35.62	13.98	-0.18	7.86	-7.75	<b>S19.2D</b>	ELS3	397.26	-523.32	105.10	26.54	12.25	-0.35	-4.79	6.83
<b>S18.6D</b>	ELU5	857.23	34.10	40.00	29.63	-2.36	2.26	7.86	-7.75	<b>S19.2D</b>	ELS3	408.72	-466.01	105.80	14.48	9.89	0.32	-4.79	6.83
<b>S18.6D</b>	ELU5	876.17	128.63	27.92	10.01	-9.87	4.87	7.86	-7.75	<b>S19.2I</b>	ELU5	284.31	-724.76	-114.34	35.78	35.91	-0.49	-5.85	-9.55
<b>S18.6D</b>	ELU5	676.58	88.74	-49.27	15.91	6.74	2.43	7.86	-7.75	<b>S19.2I</b>	ELU5	301.73	-637.68	-117.14	21.24	32.73	-1.61	-5.85	-9.55
<b>S18.6D</b>	ELS3	413.87	3.98	-25.93	28.45	11.94	-0.91	6.28	-7.73	<b>S19.2I</b>	ELU5	470.16	-603.94	-190.89	15.95	12.33	-1.85	-5.85	-9.55



<b>S19.2I</b>	ELU5	452.75	-691.03	-188.09	30.69	15.68	-0.74	-5.85	-9.55	<b>S19.5D</b>	ELU5	773.92	273.92	-160.45	17.93	1.13	-1.24	-8.02	-2.13
<b>S19.2I</b>	ELS3	258.66	-551.42	-47.15	29.93	26.35	0.19	-4.78	-6.80	<b>S19.5D</b>	ELU5	530.78	225.31	-191.46	11.58	-3.06	-1.14	-8.02	-2.13
<b>S19.2I</b>	ELS3	272.15	-483.96	-57.90	18.06	24.12	-0.41	-4.78	-6.80	<b>S19.5D</b>	ELU5	528.07	211.77	40.95	31.98	0.44	3.86	-8.02	-2.13
<b>S19.2I</b>	ELS3	426.20	-453.11	-126.19	14.48	9.55	-0.38	-4.78	-6.80	<b>S19.5D</b>	ELS3	543.45	237.71	41.57	30.95	3.77	2.32	-6.74	-2.02
<b>S19.2I</b>	ELS3	412.71	-520.56	-115.44	26.50	11.99	0.22	-4.78	-6.80	<b>S19.5D</b>	ELS3	545.54	248.15	-154.10	14.37	0.28	-1.42	-6.74	-2.02
<b>S19.3D</b>	ELU5	608.58	-472.55	210.38	18.59	-1.02	-1.25	-6.90	19.11	<b>S19.5D</b>	ELS3	367.98	212.63	-156.62	9.40	-3.75	-1.32	-6.74	-2.02
<b>S19.3D</b>	ELU5	546.52	-485.00	146.94	21.35	39.72	-2.75	-6.90	19.11	<b>S19.5D</b>	ELS3	365.89	202.20	39.05	26.56	-0.80	2.42	-6.74	-2.02
<b>S19.3D</b>	ELU5	528.11	-577.07	136.31	38.45	45.19	2.66	-6.90	19.11	<b>S19.5I</b>	ELU5	441.60	203.72	-17.41	30.18	0.00	-4.72	-7.86	2.16
<b>S19.3D</b>	ELU5	590.17	-564.62	199.76	36.00	4.63	4.16	-6.90	19.11	<b>S19.5I</b>	ELU5	442.48	208.14	169.57	10.20	-3.41	-0.60	-7.86	2.16
<b>S19.3D</b>	ELS3	473.08	-296.37	186.60	15.24	-2.75	-1.08	-5.59	14.17	<b>S19.5I</b>	ELU5	653.52	250.31	104.30	15.65	0.87	-0.47	-7.86	2.16
<b>S19.3D</b>	ELS3	441.37	-302.75	134.05	17.28	27.46	-2.03	-5.59	14.17	<b>S19.5I</b>	ELU5	652.64	245.90	-82.68	34.97	4.93	-4.59	-7.86	2.16
<b>S19.3D</b>	ELS3	426.68	-376.21	113.76	31.12	31.52	2.01	-5.59	14.17	<b>S19.5I</b>	ELS3	367.42	203.57	-37.98	26.48	-0.82	-2.46	-6.70	2.00
<b>S19.3D</b>	ELS3	458.39	-369.84	166.32	29.36	1.45	2.96	-5.59	14.17	<b>S19.5I</b>	ELS3	367.37	203.34	127.18	9.45	-3.71	1.04	-6.70	2.00
<b>S19.3I</b>	ELU5	507.08	-419.36	-208.67	19.99	36.48	1.07	-6.76	-18.74	<b>S19.5I</b>	ELS3	534.01	236.67	135.48	14.15	0.30	1.18	-6.70	2.00
<b>S19.3I</b>	ELU5	537.73	-413.20	-253.40	16.70	-3.45	-0.38	-6.76	-18.74	<b>S19.5I</b>	ELS3	534.05	236.90	-29.68	30.63	3.70	-2.32	-6.70	2.00
<b>S19.3I</b>	ELU5	520.74	-498.12	-253.93	33.75	2.04	-5.13	-6.76	-18.74	<b>S19.6D</b>	ELU5	798.14	138.95	-17.91	15.48	5.73	6.17	-7.92	-7.07
<b>S19.3I</b>	ELU5	490.10	-504.28	-209.20	36.71	41.84	-3.67	-6.76	-18.74	<b>S19.6D</b>	ELU5	744.78	128.26	10.33	16.21	-9.36	3.15	-7.92	-7.07
<b>S19.3I</b>	ELS3	454.92	-309.48	-137.52	17.26	27.12	2.01	-5.57	-14.03	<b>S19.6D</b>	ELU5	720.49	6.76	-15.61	35.99	-1.08	-0.50	-7.92	-7.07
<b>S19.3I</b>	ELS3	470.17	-306.42	-163.54	15.46	-2.84	1.06	-5.57	-14.03	<b>S19.6D</b>	ELU5	773.86	17.44	-43.85	35.29	13.90	2.53	-7.92	-7.07
<b>S19.3I</b>	ELS3	458.30	-365.78	-165.93	29.50	1.41	-3.13	-5.57	-14.03	<b>S19.6D</b>	ELS3	530.65	113.51	-20.22	12.36	5.41	4.53	-6.62	-7.21
<b>S19.3I</b>	ELS3	443.05	-368.84	-139.91	31.07	31.13	-2.18	-5.57	-14.03	<b>S19.6D</b>	ELS3	518.10	110.98	4.82	12.65	-9.98	2.15	-6.62	-7.21
<b>S19.4D</b>	ELU5	672.83	-151.32	453.05	24.79	34.61	3.95	-7.83	25.24	<b>S19.6D</b>	ELS3	500.16	21.23	-16.67	29.20	-3.26	-1.14	-6.62	-7.21
<b>S19.4D</b>	ELU5	696.66	-32.18	240.35	43.82	39.09	-0.87	-7.83	25.24	<b>S19.6D</b>	ELS3	512.72	23.75	-41.71	28.93	12.03	1.24	-6.62	-7.21
<b>S19.4D</b>	ELU5	470.21	-77.56	94.11	28.73	-15.17	-0.86	-7.83	25.24	<b>S19.6I</b>	ELU5	628.58	125.63	-2.97	13.93	-9.67	-4.27	-7.70	7.56
<b>S19.4D</b>	ELU5	446.38	-196.71	306.81	8.62	-18.53	3.95	-7.83	25.24	<b>S19.6I</b>	ELU5	644.30	128.77	5.52	13.72	6.44	-6.98	-7.70	7.56
<b>S19.4D</b>	ELS3	519.86	-62.48	363.82	19.29	21.96	2.98	-6.47	16.56	<b>S19.6I</b>	ELU5	619.27	3.61	20.00	32.98	14.09	-3.63	-7.70	7.56
<b>S19.4D</b>	ELS3	542.99	53.17	192.56	35.00	25.17	-0.95	-6.47	16.56	<b>S19.6I</b>	ELU5	603.56	0.46	11.52	33.21	-1.96	-0.91	-7.70	7.56
<b>S19.4D</b>	ELS3	327.45	10.00	88.78	24.42	-10.47	-1.26	-6.47	16.56	<b>S19.6I</b>	ELS3	510.93	121.29	9.22	12.43	-10.00	-2.14	-6.58	7.21
<b>S19.4D</b>	ELS3	304.32	-105.65	260.04	7.78	-12.85	2.67	-6.47	16.56	<b>S19.6I</b>	ELS3	505.37	120.18	5.29	12.41	5.40	-4.47	-6.58	7.21
<b>S19.4I</b>	ELU5	619.64	-3.65	-299.21	41.01	33.76	-0.47	-7.68	-21.89	<b>S19.6I</b>	ELS3	484.62	16.39	18.19	28.87	11.94	-1.45	-6.58	7.21
<b>S19.4I</b>	ELU5	598.86	-107.53	-522.72	22.35	29.34	-5.22	-7.68	-21.89	<b>S19.6I</b>	ELS3	490.18	17.51	22.12	28.88	-3.37	0.89	-6.58	7.21
<b>S19.4I</b>	ELU5	370.17	-153.39	-317.69	7.66	-16.65	-5.22	-7.68	-21.89	<b>S20.1D</b>	ELU5	130.01	-435.44	-81.51	15.72	20.29	0.83	-8.11	-1.33
<b>S19.4I</b>	ELU5	390.95	-49.51	-94.18	27.40	-13.38	-0.47	-7.68	-21.89	<b>S20.1D</b>	ELU5	65.68	-757.10	15.07	35.98	26.12	-2.64	-8.11	-1.33
<b>S19.4I</b>	ELS3	541.00	47.72	-173.39	35.10	24.92	0.95	-6.44	-16.38	<b>S20.1D</b>	ELU5	343.83	-701.44	57.05	33.03	29.14	-1.23	-8.11	-1.33
<b>S19.4I</b>	ELS3	519.31	-60.76	-379.04	19.46	21.64	-3.18	-6.44	-16.38	<b>S20.1D</b>	ELU5	408.16	-379.78	-39.54	12.71	22.90	2.24	-8.11	-1.33
<b>S19.4I</b>	ELS3	306.01	-103.48	-286.46	7.83	-12.80	-2.93	-6.44	-16.38	<b>S20.1D</b>	ELS3	109.64	-290.92	-18.68	13.51	16.52	1.55	-6.59	0.93
<b>S19.4I</b>	ELS3	327.70	5.00	-80.80	24.38	-10.35	1.20	-6.44	-16.38	<b>S20.1D</b>	ELS3	58.03	-548.96	56.71	29.97	20.91	-1.58	-6.59	0.93
<b>S19.5D</b>	ELU5	771.21	260.38	71.96	37.64	5.33	3.75	-8.02	-2.13	<b>S20.1D</b>	ELS3	274.23	-505.71	71.56	26.40	19.08	-0.70	-6.59	0.93





<b>S20.1D</b>	ELS3	325.84	-247.67	-3.82	9.89	14.39	2.43	-6.59	0.93	<b>S20.3I</b>	ELS3	652.10	-266.10	-314.05	-2.98	-5.92	-3.35	-7.62	-15.76
<b>S20.1I</b>	ELU5	71.17	-729.63	-82.63	36.75	30.22	1.18	-8.07	-3.50	<b>S20.3I</b>	ELS3	651.30	-270.12	-280.10	16.36	-3.58	2.02	-7.62	-15.76
<b>S20.1I</b>	ELU5	135.65	-407.25	18.61	16.58	24.43	-2.94	-8.07	-3.50	<b>S20.3I</b>	ELS3	540.20	-292.47	-67.08	28.25	30.23	1.18	-7.62	-15.76
<b>S20.1I</b>	ELU5	380.18	-358.30	-46.34	10.88	16.76	-4.34	-8.07	-3.50	<b>S20.4D</b>	ELU5	851.68	-155.13	291.63	-1.70	-22.54	-1.14	-10.03	24.42
<b>S20.1I</b>	ELU5	315.70	-680.68	-147.58	31.07	22.98	-0.23	-8.07	-3.50	<b>S20.4D</b>	ELU5	879.31	-149.43	558.41	2.83	29.48	-2.10	-10.03	24.42
<b>S20.1I</b>	ELS3	57.05	-553.87	-19.52	30.14	21.77	1.51	-6.60	-1.90	<b>S20.4D</b>	ELU5	887.53	-108.31	561.10	27.98	35.77	3.56	-10.03	24.42
<b>S20.1I</b>	ELS3	111.48	-281.72	57.90	13.62	17.32	-1.51	-6.60	-1.90	<b>S20.4D</b>	ELU5	859.90	-114.01	294.32	23.30	-16.11	4.52	-10.03	24.42
<b>S20.1I</b>	ELS3	343.70	-235.24	-9.91	9.73	13.08	-2.47	-6.60	-1.90	<b>S20.4D</b>	ELS3	642.43	-63.61	263.46	-0.57	-15.98	-1.26	-8.13	16.17
<b>S20.1I</b>	ELS3	289.27	-507.38	-87.33	26.25	17.93	0.55	-6.60	-1.90	<b>S20.4D</b>	ELS3	670.30	-57.91	460.43	1.76	18.51	-1.76	-8.13	16.17
<b>S20.2D</b>	ELU5	665.38	-508.01	27.37	7.57	12.79	2.56	-8.75	8.68	<b>S20.4D</b>	ELS3	675.62	-31.27	444.82	22.14	23.19	2.65	-8.13	16.17
<b>S20.2D</b>	ELU5	370.73	-566.93	42.02	13.65	31.09	1.60	-8.75	8.68	<b>S20.4D</b>	ELS3	647.75	-36.97	247.85	19.72	-11.12	3.15	-8.13	16.17
<b>S20.2D</b>	ELU5	342.68	-707.22	73.89	35.29	36.97	-0.50	-8.75	8.68	<b>S20.4I</b>	ELU5	785.75	-119.79	-616.19	1.44	24.75	0.19	-9.82	-21.17
<b>S20.2D</b>	ELU5	637.32	-648.30	59.25	29.71	18.36	0.46	-8.75	8.68	<b>S20.4I</b>	ELU5	735.49	-130.08	-250.46	-2.25	-20.39	-0.59	-9.82	-21.17
<b>S20.2D</b>	ELS3	527.84	-322.88	60.51	5.90	6.84	2.28	-7.09	7.63	<b>S20.4I</b>	ELU5	745.85	-78.28	-287.18	22.21	-14.28	-5.70	-9.82	-21.17
<b>S20.2D</b>	ELS3	301.75	-368.10	59.68	11.07	22.92	1.75	-7.09	7.63	<b>S20.4I</b>	ELU5	796.11	-67.99	-652.91	26.08	30.63	-4.93	-9.82	-21.17
<b>S20.2D</b>	ELS3	276.89	-492.39	79.92	28.59	27.35	0.06	-7.09	7.63	<b>S20.4I</b>	ELS3	690.77	-72.76	-459.49	1.56	18.11	1.71	-8.10	-15.97
<b>S20.2D</b>	ELS3	502.98	-447.17	80.75	23.83	10.99	0.59	-7.09	7.63	<b>S20.4I</b>	ELS3	640.49	-82.97	-223.74	-0.47	-16.01	1.17	-8.10	-15.97
<b>S20.2I</b>	ELU5	350.83	-505.05	-134.53	13.01	30.59	-3.39	-8.63	-10.46	<b>S20.4I</b>	ELS3	650.15	-34.66	-259.86	19.70	-11.05	-3.40	-8.10	-15.97
<b>S20.2I</b>	ELU5	600.32	-455.19	-82.99	6.16	8.49	-4.24	-8.63	-10.46	<b>S20.4I</b>	ELS3	700.43	-24.46	-495.60	21.91	22.76	-2.87	-8.10	-15.97
<b>S20.2I</b>	ELU5	574.74	-583.08	-111.12	27.98	13.85	-2.12	-8.63	-10.46	<b>S20.5D</b>	ELU5	895.44	298.30	-327.91	21.31	2.22	-1.46	-9.86	-1.39
<b>S20.2I</b>	ELU5	325.25	-632.94	-162.67	34.36	36.24	-1.27	-8.63	-10.46	<b>S20.5D</b>	ELU5	853.84	90.30	-247.33	-3.50	-1.97	4.20	-9.86	-1.39
<b>S20.2I</b>	ELS3	315.21	-377.68	-73.09	11.11	22.72	-1.87	-7.08	-7.68	<b>S20.5D</b>	ELU5	902.71	100.02	-126.99	1.83	-5.16	4.56	-9.86	-1.39
<b>S20.2I</b>	ELS3	531.82	-334.39	-23.21	5.88	6.48	-2.35	-7.08	-7.68	<b>S20.5D</b>	ELU5	944.31	308.02	-207.57	26.35	-0.52	-1.10	-9.86	-1.39
<b>S20.2I</b>	ELS3	511.47	-436.10	-55.74	23.75	10.60	-0.61	-7.08	-7.68	<b>S20.5D</b>	ELS3	654.69	270.05	-303.16	17.78	1.34	-1.61	-8.08	-1.51
<b>S20.2I</b>	ELS3	294.87	-479.39	-105.62	28.62	27.03	-0.12	-7.08	-7.68	<b>S20.5D</b>	ELS3	620.34	98.28	-227.36	-2.56	-2.04	2.90	-8.08	-1.51
<b>S20.3D</b>	ELU5	821.35	-439.24	331.62	-3.80	-5.09	4.09	-9.45	21.13	<b>S20.5D</b>	ELS3	677.06	109.56	-95.49	1.51	-5.44	3.23	-8.08	-1.51
<b>S20.3D</b>	ELU5	673.18	-469.02	107.29	12.21	39.50	4.80	-9.45	21.13	<b>S20.5D</b>	ELS3	711.41	281.33	-171.29	21.62	-1.68	-1.28	-8.08	-1.51
<b>S20.3D</b>	ELU5	675.12	-459.32	94.11	35.46	43.58	-1.73	-9.45	21.13	<b>S20.5I</b>	ELU5	702.36	96.90	190.88	-3.85	-2.02	-5.46	-9.61	1.54
<b>S20.3D</b>	ELU5	823.29	-429.54	318.43	20.20	-1.74	-2.43	-9.45	21.13	<b>S20.5I</b>	ELU5	736.37	266.94	216.70	20.29	2.22	-0.31	-9.61	1.54
<b>S20.3D</b>	ELS3	625.68	-280.99	273.63	-2.78	-5.53	3.13	-7.61	15.78	<b>S20.5I</b>	ELU5	818.16	283.29	203.58	24.79	-0.91	-0.61	-9.61	1.54
<b>S20.3D</b>	ELS3	532.47	-299.73	115.03	9.54	27.74	4.06	-7.61	15.78	<b>S20.5I</b>	ELU5	784.16	113.25	177.75	0.83	-5.44	-5.75	-9.61	1.54
<b>S20.3D</b>	ELS3	535.63	-283.91	109.00	28.28	30.53	-1.15	-7.61	15.78	<b>S20.5I</b>	ELS3	588.75	99.43	208.76	-2.27	-2.03	-3.06	-8.01	1.50
<b>S20.3D</b>	ELS3	628.85	-265.17	267.59	16.56	-3.36	-2.08	-7.61	15.78	<b>S20.5I</b>	ELS3	619.63	253.84	237.59	17.86	1.40	1.32	-8.01	1.50
<b>S20.3I</b>	ELU5	614.03	-386.65	-154.67	11.07	36.34	-6.45	-9.28	-20.66	<b>S20.5I</b>	ELS3	711.52	272.18	156.18	21.58	-1.64	1.03	-8.01	1.50
<b>S20.3I</b>	ELU5	737.35	-361.82	-409.36	-4.68	-7.27	-5.72	-9.28	-20.66	<b>S20.5I</b>	ELS3	680.64	117.77	127.35	1.65	-5.39	-3.35	-8.01	1.50
<b>S20.3I</b>	ELU5	734.98	-373.67	-383.59	18.86	-4.02	0.78	-9.28	-20.66	<b>S20.6D</b>	ELU5	837.77	9.83	18.60	11.52	11.90	-9.24	-9.13	-8.92
<b>S20.3I</b>	ELU5	611.66	-398.49	-128.90	33.92	40.27	0.05	-9.28	-20.66	<b>S20.6D</b>	ELU5	837.73	9.93	-205.77	-4.26	-6.96	-4.49	-9.13	-8.92
<b>S20.3I</b>	ELS3	541.00	-288.46	-101.03	9.48	27.34	-4.18	-7.62	-15.76	<b>S20.6D</b>	ELU5	866.30	152.63	-157.15	18.77	-9.24	7.08	-9.13	-8.92



<b>S20.6D</b>	ELU5	866.36	152.54	67.23	34.17	9.85	2.31	-9.13	-8.92	<b>S21.2I</b>	ELU5	743.32	-426.48	-194.69	33.52	12.62	-4.69	-21.05	-11.05
<b>S20.6D</b>	ELS3	580.48	20.35	14.70	9.91	10.54	-7.94	-7.50	-8.76	<b>S21.2I</b>	ELU5	252.42	-524.86	45.61	32.34	35.80	-3.06	-21.05	-11.05
<b>S20.6D</b>	ELS3	605.76	25.51	-191.06	-3.56	-8.02	-4.11	-7.50	-8.76	<b>S21.2I</b>	ELU5	365.78	41.91	270.88	-20.21	23.33	2.62	-21.05	-11.05
<b>S20.6D</b>	ELS3	627.26	132.87	-144.25	15.36	-9.77	5.28	-7.50	-8.76	<b>S21.2I</b>	ELS3	763.61	179.66	53.66	-15.71	-1.02	2.48	-17.83	-8.22
<b>S20.6D</b>	ELS3	601.99	127.72	61.51	28.51	8.97	1.45	-7.50	-8.76	<b>S21.2I</b>	ELS3	666.19	-307.43	-124.14	28.98	9.89	-2.77	-17.83	-8.22
<b>S20.6I</b>	ELU5	680.35	-13.11	137.78	-4.69	-7.45	2.20	-8.90	9.22	<b>S21.2I</b>	ELS3	219.94	-396.86	91.65	27.01	27.12	-1.53	-17.83	-8.22
<b>S20.6I</b>	ELU5	677.30	-13.78	6.57	9.66	12.04	6.56	-8.90	9.22	<b>S21.2I</b>	ELS3	317.35	90.23	269.45	-17.46	16.73	3.72	-17.83	-8.22
<b>S20.6I</b>	ELU5	708.39	141.57	-21.77	31.73	10.44	-3.47	-8.90	9.22	<b>S21.3D</b>	ELU5	1282.94	-346.95	225.54	41.34	1.84	5.96	-23.61	21.71
<b>S20.6I</b>	ELU5	711.43	142.25	109.45	17.75	-9.30	-7.85	-8.90	9.22	<b>S21.3D</b>	ELU5	1277.51	-374.10	-82.77	-18.16	-14.22	-0.15	-23.61	21.71
<b>S20.6I</b>	ELS3	569.63	3.92	138.04	-3.28	-7.93	3.62	-7.43	8.67	<b>S21.3D</b>	ELU5	815.68	-466.51	-137.46	-14.69	32.07	-3.11	-23.61	21.71
<b>S20.6I</b>	ELS3	548.27	-0.42	3.10	9.59	10.42	7.43	-7.43	8.67	<b>S21.3D</b>	ELU5	821.11	-439.36	170.85	43.87	47.93	3.01	-23.61	21.71
<b>S20.6I</b>	ELS3	575.19	134.12	-23.62	28.04	8.83	-1.42	-7.43	8.67	<b>S21.3D</b>	ELS3	995.63	-207.00	210.38	33.37	0.12	4.61	-19.36	16.10
<b>S20.6I</b>	ELS3	596.55	138.46	111.33	15.46	-9.70	-5.24	-7.43	8.67	<b>S21.3D</b>	ELS3	993.20	-219.16	-23.83	-15.43	-12.37	-0.49	-19.36	16.10
<b>S21.1D</b>	ELU5	144.14	-113.34	124.11	-27.22	14.09	-4.11	-20.07	-0.97	<b>S21.3D</b>	ELS3	631.24	-291.61	-87.79	-13.41	21.94	-2.46	-19.36	16.10
<b>S21.1D</b>	ELU5	77.62	-445.92	-71.77	22.83	22.90	1.91	-20.07	-0.97	<b>S21.3D</b>	ELS3	633.67	-279.45	146.43	34.64	34.33	2.64	-19.36	16.10
<b>S21.1D</b>	ELU5	294.29	-402.69	-194.36	29.52	25.06	1.13	-20.07	-0.97	<b>S21.3I</b>	ELU5	1125.56	-341.81	34.08	-18.21	-15.56	-1.53	-22.72	-21.07
<b>S21.1D</b>	ELU5	360.81	-70.10	1.51	-20.84	16.04	-4.89	-20.07	-0.97	<b>S21.3I</b>	ELU5	1137.56	-281.83	-253.40	38.96	-0.39	-7.43	-22.72	-21.07
<b>S21.1D</b>	ELS3	126.52	-30.25	121.90	-22.74	11.60	-2.27	-16.74	1.10	<b>S21.3I</b>	ELU5	757.03	-357.92	-267.87	41.53	44.27	-4.83	-22.72	-21.07
<b>S21.1D</b>	ELS3	72.92	-298.28	-28.34	19.03	18.50	2.47	-16.74	1.10	<b>S21.3I</b>	ELU5	745.03	-417.90	19.61	-14.90	29.41	1.07	-22.72	-21.07
<b>S21.1D</b>	ELS3	231.06	-266.71	-105.42	23.49	16.24	1.49	-16.74	1.10	<b>S21.3I</b>	ELS3	989.72	-252.68	77.57	-14.66	-12.90	0.31	-19.35	-16.18
<b>S21.1D</b>	ELS3	284.67	1.32	44.82	-18.50	9.18	-3.25	-16.74	1.10	<b>S21.3I</b>	ELS3	1000.98	-196.38	-181.86	34.06	-0.16	-4.85	-19.35	-16.18
<b>S21.1I</b>	ELU5	83.27	-417.71	-8.11	23.47	26.79	-4.06	-19.89	-3.66	<b>S21.3I</b>	ELS3	675.38	-261.48	-203.13	35.35	34.15	-2.75	-19.35	-16.18
<b>S21.1I</b>	ELU5	147.10	-98.55	-196.41	-26.22	18.26	1.86	-19.89	-3.66	<b>S21.3I</b>	ELS3	664.12	-317.78	56.30	-12.70	21.65	2.40	-19.35	-16.18
<b>S21.1I</b>	ELU5	345.60	-58.96	-53.42	-21.80	10.29	2.72	-19.89	-3.66	<b>S21.4D</b>	ELU5	1274.97	-70.43	275.25	31.55	-17.01	-2.01	-26.04	26.15
<b>S21.1I</b>	ELU5	281.77	-378.12	134.88	28.00	19.18	-3.20	-19.89	-3.66	<b>S21.4D</b>	ELU5	1232.93	-280.64	475.35	-35.04	-28.05	7.87	-26.04	26.15
<b>S21.1I</b>	ELS3	74.76	-289.04	17.00	19.24	19.35	-2.47	-16.73	-2.14	<b>S21.4D</b>	ELU5	1298.87	-267.30	653.07	-12.39	25.92	8.07	-26.04	26.15
<b>S21.1I</b>	ELS3	126.67	-29.51	-134.00	-22.52	12.52	2.66	-16.73	-2.14	<b>S21.4D</b>	ELU5	1340.91	-57.09	452.97	51.29	40.30	-1.81	-26.04	26.15
<b>S21.1I</b>	ELS3	300.33	5.10	4.71	-18.28	7.83	3.64	-16.73	-2.14	<b>S21.4D</b>	ELS3	962.60	0.47	251.97	26.73	-11.59	-2.02	-21.32	17.69
<b>S21.1I</b>	ELS3	248.42	-254.43	155.72	23.63	14.94	-1.49	-16.73	-2.14	<b>S21.4D</b>	ELS3	923.28	-196.12	381.87	-27.77	-20.13	5.38	-21.32	17.69
<b>S21.2D</b>	ELU5	813.31	-478.37	89.09	35.66	16.84	3.03	-21.56	9.39	<b>S21.4D</b>	ELS3	1000.93	-180.47	527.27	-11.52	16.20	5.94	-21.32	17.69
<b>S21.2D</b>	ELU5	933.40	122.07	-123.75	-18.46	3.25	-3.21	-21.56	9.39	<b>S21.4D</b>	ELS3	1040.25	16.12	397.37	40.62	27.36	-1.46	-21.32	17.69
<b>S21.2D</b>	ELU5	376.96	10.62	-324.12	-20.63	23.48	-5.02	-21.56	9.39	<b>S21.4I</b>	ELU5	1071.10	-192.05	-507.88	-33.46	-25.64	-9.32	-24.85	-22.78
<b>S21.2D</b>	ELU5	256.87	-589.82	-111.27	33.10	36.55	1.22	-21.56	9.39	<b>S21.4I</b>	ELU5	1098.00	-57.53	-250.43	30.02	-14.93	0.12	-24.85	-22.78
<b>S21.2D</b>	ELS3	629.04	-302.61	90.71	28.33	10.17	2.53	-17.82	8.09	<b>S21.4I</b>	ELU5	1185.97	-39.76	-460.44	48.01	35.07	0.02	-24.85	-22.78
<b>S21.2D</b>	ELS3	721.44	159.42	-76.75	-16.37	-0.27	-2.41	-17.82	8.09	<b>S21.4I</b>	ELU5	1159.07	-174.28	-717.90	-12.81	21.27	-9.42	-24.85	-22.78
<b>S21.2D</b>	ELS3	299.38	74.90	-208.35	-17.83	17.14	-3.36	-17.82	8.09	<b>S21.4I</b>	ELS3	936.42	-146.20	-459.58	-27.66	-20.53	-6.26	-21.30	-17.53
<b>S21.2D</b>	ELS3	206.98	-387.13	-40.88	26.60	27.19	1.58	-17.82	8.09	<b>S21.4I</b>	ELS3	961.93	-18.64	-228.65	26.81	-11.56	1.80	-21.30	-17.53
<b>S21.2I</b>	ELU5	856.67	140.29	30.58	-19.21	-0.49	1.00	-21.05	-11.05	<b>S21.4I</b>	ELS3	1039.65	-3.01	-327.46	41.31	27.07	1.57	-21.30	-17.53



<b>S21.4I</b>	ELS3	1014.14	-130.57	-558.39	-10.80	15.43	-6.49	-21.30	-17.53	<b>S22.1D</b>	ELS3	21.21	82.18	-191.16	-58.47	2.44	1.06	-28.35	2.92
<b>S21.5D</b>	ELU5	1192.33	157.89	-14.96	43.76	8.50	2.78	-26.01	-3.27	<b>S22.1D</b>	ELS3	294.61	136.90	-158.72	-52.29	8.50	2.48	-28.35	2.92
<b>S21.5D</b>	ELU5	1089.21	-357.73	-306.80	-20.32	-0.42	-5.19	-26.01	-3.27	<b>S22.1D</b>	ELS3	266.81	-2.11	167.93	18.37	20.80	-2.07	-28.35	2.92
<b>S21.5D</b>	ELU5	1222.88	-330.88	-486.30	-30.84	-6.36	-1.59	-26.01	-3.27	<b>S22.1I</b>	ELU5	9.86	50.11	209.75	-69.86	1.68	-2.32	-33.52	-5.78
<b>S21.5D</b>	ELU5	1326.01	184.74	-194.46	35.21	0.51	6.38	-26.01	-3.27	<b>S22.1I</b>	ELU5	-26.82	-133.27	-212.65	14.20	16.51	2.97	-33.52	-5.78
<b>S21.5D</b>	ELS3	893.02	152.72	-21.24	36.62	6.64	1.76	-21.37	-3.08	<b>S22.1I</b>	ELU5	327.37	-62.44	-202.35	21.86	28.88	1.67	-33.52	-5.78
<b>S21.5D</b>	ELS3	814.56	-239.58	-297.28	-16.04	-0.72	-5.13	-21.37	-3.08	<b>S22.1I</b>	ELU5	364.05	120.94	220.05	-61.77	13.89	-3.61	-33.52	-5.78
<b>S21.5D</b>	ELS3	918.77	-218.66	-424.46	-25.19	-6.44	-2.19	-21.37	-3.08	<b>S22.1I</b>	ELS3	25.31	98.57	189.47	-59.16	0.67	-0.96	-28.41	-4.13
<b>S21.5D</b>	ELS3	997.23	173.64	-148.42	29.08	-0.76	4.69	-21.37	-3.08	<b>S22.1I</b>	ELS3	-5.59	-55.92	-147.02	12.17	12.88	3.84	-28.41	-4.13
<b>S21.5I</b>	ELU5	936.09	-355.30	232.18	-20.71	-0.88	2.47	-24.73	3.19	<b>S22.1I</b>	ELS3	266.95	-1.44	-123.60	18.58	21.80	2.53	-28.41	-4.13
<b>S21.5I</b>	ELU5	1040.02	164.38	61.19	40.24	7.76	-4.13	-24.73	3.19	<b>S22.1I</b>	ELS3	297.84	153.05	212.89	-52.21	9.35	-2.27	-28.41	-4.13
<b>S21.5I</b>	ELU5	1146.67	185.81	225.24	33.04	0.03	-7.41	-24.73	3.19	<b>S22.2D</b>	ELU5	408.59	238.16	-356.87	-78.88	-8.54	-2.55	-36.17	12.83
<b>S21.5I</b>	ELU5	1042.73	-333.87	396.23	-29.73	-6.74	-0.81	-24.73	3.19	<b>S22.2D</b>	ELU5	48.72	166.81	245.72	-69.80	18.12	-0.88	-36.17	12.83
<b>S21.5I</b>	ELS3	801.83	-290.73	249.97	-16.87	-0.99	4.08	-21.33	2.95	<b>S22.2D</b>	ELU5	2.52	-64.18	-174.18	19.66	34.46	-3.42	-36.17	12.83
<b>S21.5I</b>	ELS3	891.99	160.04	86.66	35.72	6.37	-1.91	-21.33	2.95	<b>S22.2D</b>	ELU5	362.39	7.16	-776.77	12.59	6.52	-5.09	-36.17	12.83
<b>S21.5I</b>	ELS3	1002.08	182.10	163.86	29.13	-0.70	-4.80	-21.33	2.95	<b>S22.2D</b>	ELS3	306.49	234.45	-244.76	-65.10	-8.94	-1.89	-30.00	10.59
<b>S21.5I</b>	ELS3	911.93	-268.66	327.17	-25.01	-6.47	1.18	-21.33	2.95	<b>S22.2D</b>	ELS3	41.14	181.84	199.10	-57.77	13.05	-0.14	-30.00	10.59
<b>S21.6D</b>	ELU5	836.79	9.77	-206.33	29.67	16.30	-5.66	-25.35	-7.13	<b>S22.2D</b>	ELS3	8.11	16.70	-116.38	16.49	26.11	-2.13	-30.00	10.59
<b>S21.6D</b>	ELU5	769.74	-325.45	29.42	-33.77	0.32	8.68	-25.35	-7.13	<b>S22.2D</b>	ELS3	273.46	69.31	-560.23	10.71	3.03	-3.88	-30.00	10.59
<b>S21.6D</b>	ELU5	1109.21	-257.70	261.33	-22.15	-15.09	6.16	-25.35	-7.13	<b>S22.2I</b>	ELU5	35.52	178.41	-305.44	-68.16	17.72	-0.66	-35.21	-13.92
<b>S21.6D</b>	ELU5	1176.26	77.52	25.59	41.23	1.36	-8.17	-25.35	-7.13	<b>S22.2I</b>	ELU5	413.61	253.38	312.45	-76.73	-11.38	0.96	-35.21	-13.92
<b>S21.6D</b>	ELS3	631.87	30.76	-200.77	26.23	14.43	-5.18	-20.79	-7.39	<b>S22.2I</b>	ELU5	371.43	42.51	728.16	12.14	3.41	2.75	-35.21	-13.92
<b>S21.6D</b>	ELS3	573.79	-259.61	-6.36	-25.78	1.73	5.69	-20.79	-7.39	<b>S22.2I</b>	ELU5	-6.66	-32.47	110.27	19.11	33.52	1.13	-35.21	-13.92
<b>S21.6D</b>	ELS3	820.39	-210.42	208.48	-17.81	-14.20	3.91	-20.79	-7.39	<b>S22.2I</b>	ELS3	47.30	208.55	-232.23	-58.29	12.48	0.35	-30.09	-10.89
<b>S21.6D</b>	ELS3	878.46	79.94	14.06	34.15	-1.11	-6.96	-20.79	-7.39	<b>S22.2I</b>	ELS3	359.77	270.48	308.28	-65.78	-10.19	2.02	-30.09	-10.89
<b>S21.6I</b>	ELU5	575.29	-279.07	-76.07	-33.09	0.78	-10.35	-24.09	7.62	<b>S22.2I</b>	ELS3	323.88	91.08	657.08	10.25	1.97	4.06	-30.09	-10.89
<b>S21.6I</b>	ELU5	626.32	-23.91	113.76	27.17	16.30	3.12	-24.09	7.62	<b>S22.2I</b>	ELS3	11.42	29.15	116.57	16.21	25.64	2.38	-30.09	-10.89
<b>S21.6I</b>	ELU5	1018.02	54.37	9.16	37.67	0.27	5.73	-24.09	7.62	<b>S22.3D</b>	ELU5	2396.75	-150.26	-75.84	14.14	-12.48	0.19	-40.96	26.58
<b>S21.6I</b>	ELU5	966.99	-200.80	-180.68	-22.59	-15.62	-7.75	-24.09	7.62	<b>S22.3D</b>	ELU5	2688.55	1308.74	-563.05	-89.59	-37.94	-0.08	-40.96	26.58
<b>S21.6I</b>	ELS3	476.11	-239.18	-62.72	-27.34	0.78	-6.96	-20.82	7.27	<b>S22.3D</b>	ELU5	536.47	877.58	-1275.40	-77.26	18.16	-3.95	-40.96	26.58
<b>S21.6I</b>	ELS3	522.86	-5.43	107.62	24.75	14.06	4.48	-20.82	7.27	<b>S22.3D</b>	ELU5	244.67	-581.41	-788.20	23.90	44.51	-3.68	-40.96	26.58
<b>S21.6I</b>	ELS3	872.88	64.52	16.95	33.30	-1.23	6.65	-20.82	7.27	<b>S22.3D</b>	ELS3	1854.99	-46.85	-65.08	12.18	-10.36	-0.43	-33.59	19.69
<b>S21.6I</b>	ELS3	826.13	-169.24	-153.39	-18.75	-14.87	-4.79	-20.82	7.27	<b>S22.3D</b>	ELS3	2075.90	1057.71	-440.01	-72.85	-29.92	-0.73	-33.59	19.69
<b>S22.1D</b>	ELU5	-13.61	-144.83	149.53	15.05	21.72	-5.22	-33.82	1.59	<b>S22.3D</b>	ELS3	404.17	722.84	-944.71	-63.74	11.53	-3.02	-33.59	19.69
<b>S22.1D</b>	ELU5	23.32	39.79	-255.01	-69.97	6.95	0.75	-33.82	1.59	<b>S22.3D</b>	ELS3	183.26	-381.72	-569.78	19.24	31.98	-2.72	-33.59	19.69
<b>S22.1D</b>	ELU5	361.34	107.41	-244.65	-62.77	10.14	2.10	-33.82	1.59	<b>S22.3I</b>	ELU5	2460.12	1203.08	399.23	-85.98	-37.74	-1.71	-39.26	-25.35
<b>S22.1D</b>	ELU5	324.42	-77.22	159.88	21.43	25.32	-3.86	-33.82	1.59	<b>S22.3I</b>	ELU5	2193.91	-127.98	-121.97	13.28	-13.29	-1.97	-39.26	-25.35
<b>S22.1D</b>	ELS3	-6.59	-56.83	135.48	12.73	14.45	-3.49	-28.35	2.92	<b>S22.3I</b>	ELU5	259.80	-515.67	715.32	22.73	40.98	1.72	-39.26	-25.35



<b>S22.3I</b>	ELU5	526.01	815.39	1236.52	-74.37	15.83	1.98	-39.26	-25.35	<b>S22.6D</b>	ELU5	2363.45	981.81	-59.05	-108.11	-39.21	16.54	-45.37	-9.21
<b>S22.3I</b>	ELS3	2163.69	1097.36	382.49	-73.72	-31.80	0.28	-33.78	-19.96	<b>S22.6D</b>	ELU5	2157.30	-47.85	-21.65	5.86	-11.20	5.56	-45.37	-9.21
<b>S22.3I</b>	ELS3	1931.37	-64.24	-49.03	11.76	-11.22	0.01	-33.78	-19.96	<b>S22.6D</b>	ELU5	-757.93	-631.60	874.72	-1.88	8.46	9.41	-45.37	-9.21
<b>S22.3I</b>	ELS3	224.40	-406.37	658.23	18.99	31.61	2.90	-33.78	-19.96	<b>S22.6D</b>	ELS3	-440.81	312.56	698.08	-91.90	-14.61	14.93	-37.28	-9.06
<b>S22.3I</b>	ELS3	456.72	755.23	1089.75	-64.49	10.30	3.17	-33.78	-19.96	<b>S22.6D</b>	ELS3	1863.02	773.95	-106.71	-87.49	-33.87	11.77	-37.28	-9.06
<b>S22.4D</b>	ELU5	2378.08	-835.50	-250.50	-85.50	-50.26	0.11	-45.43	26.94	<b>S22.6D</b>	ELS3	1701.22	-34.00	-83.85	6.15	-10.81	3.27	-37.28	-9.06
<b>S22.4D</b>	ELU5	2254.82	-859.92	-34.20	-84.67	7.45	-5.63	-45.43	26.94	<b>S22.6D</b>	ELS3	-602.61	-495.40	720.98	0.97	8.51	6.44	-37.28	-9.06
<b>S22.4D</b>	ELU5	2418.14	-43.30	660.27	28.36	37.85	5.37	-45.43	26.94	<b>S22.6I</b>	ELU5	2026.94	881.70	-57.87	-99.69	-36.33	-16.26	-42.27	9.77
<b>S22.4D</b>	ELU5	2541.41	-18.87	443.97	28.68	-19.08	11.11	-45.43	26.94	<b>S22.6I</b>	ELU5	-592.50	357.36	-637.63	-103.69	-15.62	-18.96	-42.27	9.77
<b>S22.4D</b>	ELS3	1839.17	-588.87	-123.67	-68.78	-37.39	-1.18	-37.15	18.47	<b>S22.6I</b>	ELU5	-773.99	-549.38	-676.39	1.54	9.41	-10.48	-42.27	9.77
<b>S22.4D</b>	ELS3	1742.74	-608.06	-35.51	-69.67	2.16	-5.27	-37.15	18.47	<b>S22.6I</b>	ELU5	1845.47	-25.04	-96.60	6.52	-11.49	-7.75	-42.27	9.77
<b>S22.4D</b>	ELS3	1862.75	-8.04	485.92	22.73	26.22	3.82	-37.15	18.47	<b>S22.6I</b>	ELS3	1777.40	785.87	-26.45	-86.24	-33.12	-12.12	-36.93	9.08
<b>S22.4D</b>	ELS3	1959.18	11.16	397.76	24.63	-12.81	7.91	-37.15	18.47	<b>S22.6I</b>	ELS3	-542.36	321.49	-576.17	-89.53	-13.86	-14.60	-36.93	9.08
<b>S22.4I</b>	ELU5	2039.04	-902.35	-158.03	-81.20	3.98	3.71	-43.01	-23.32	<b>S22.6I</b>	ELS3	-701.82	-475.18	-609.18	2.44	8.17	-7.18	-36.93	9.08
<b>S22.4I</b>	ELU5	2072.81	-896.09	324.96	-80.59	-46.15	-1.52	-43.01	-23.32	<b>S22.6I</b>	ELS3	1617.94	-10.80	-59.43	6.55	-11.22	-4.68	-36.93	9.08
<b>S22.4I</b>	ELU5	2261.23	45.96	-390.77	27.38	-16.78	-12.26	-43.01	-23.32	<b>S23.1D</b>	ELU5	-72.43	20.61	-230.52	37.56	32.19	-0.77	-42.94	2.61
<b>S22.4I</b>	ELU5	2227.45	39.71	-873.76	25.97	32.33	-7.03	-43.01	-23.32	<b>S23.1D</b>	ELU5	225.99	80.09	-391.10	36.50	26.26	3.63	-42.94	2.61
<b>S22.4I</b>	ELS3	1793.61	-753.02	-51.66	-70.43	0.95	5.07	-37.24	-18.22	<b>S23.1D</b>	ELU5	144.62	-326.75	108.14	-71.51	-1.02	4.12	-42.94	2.61
<b>S22.4I</b>	ELS3	1820.25	-748.02	257.02	-68.87	-38.23	0.79	-37.24	-18.22	<b>S23.1D</b>	ELU5	-153.80	-386.23	268.72	-69.25	4.15	-0.28	-42.94	2.61
<b>S22.4I</b>	ELS3	1982.46	63.02	-376.13	24.67	-13.18	-8.75	-37.24	-18.22	<b>S23.1D</b>	ELS3	-53.75	67.18	-168.80	32.56	26.69	0.00	-36.34	3.38
<b>S22.4I</b>	ELS3	1955.82	58.01	-684.82	22.30	25.16	-4.47	-37.24	-18.22	<b>S23.1D</b>	ELS3	174.68	112.70	-294.74	31.49	19.20	3.55	-36.34	3.38
<b>S22.5D</b>	ELU5	2137.15	-147.86	-588.57	11.07	7.59	-0.84	-46.85	-1.51	<b>S23.1D</b>	ELS3	109.18	-214.80	93.07	-59.81	-3.66	3.54	-36.34	3.38
<b>S22.5D</b>	ELU5	2080.32	-433.23	91.93	-106.34	-23.11	23.30	-46.85	-1.51	<b>S23.1D</b>	ELS3	-119.25	-260.33	219.02	-57.94	3.24	-0.01	-36.34	3.38
<b>S22.5D</b>	ELU5	2474.33	-354.44	108.05	-82.19	-27.03	17.64	-46.85	-1.51	<b>S23.1I</b>	ELU5	237.86	95.45	380.22	35.68	21.70	-5.12	-42.47	-6.03
<b>S22.5D</b>	ELU5	2531.36	-69.03	-572.46	34.78	5.02	-6.47	-46.85	-1.51	<b>S23.1I</b>	ELU5	-69.73	34.15	208.36	37.68	34.85	-0.80	-42.47	-6.03
<b>S22.5D</b>	ELS3	1695.27	-63.15	-588.42	10.68	6.03	-1.72	-38.43	-1.70	<b>S23.1I</b>	ELU5	-146.75	-350.97	-290.80	-68.18	7.22	-0.56	-42.47	-6.03
<b>S22.5D</b>	ELS3	1630.40	-388.59	-16.68	-85.63	-18.71	17.05	-38.43	-1.70	<b>S23.1I</b>	ELU5	160.83	-289.67	-118.94	-70.91	-5.30	-4.89	-42.47	-6.03
<b>S22.5D</b>	ELS3	1889.63	-336.85	118.92	-67.05	-22.91	12.71	-38.43	-1.70	<b>S23.1I</b>	ELS3	197.54	132.79	332.59	30.69	17.37	-3.33	-36.32	-4.66
<b>S22.5D</b>	ELS3	1954.66	-11.38	-452.84	28.88	2.95	-6.04	-38.43	-1.70	<b>S23.1I</b>	ELS3	-50.51	83.38	179.91	32.77	27.59	0.10	-36.32	-4.66
<b>S22.5I</b>	ELU5	1803.28	-235.96	-158.36	-98.23	-21.53	-22.72	-43.96	1.85	<b>S23.1I</b>	ELS3	-114.91	-238.65	-230.97	-57.67	4.30	-0.37	-36.32	-4.66
<b>S22.5I</b>	ELU5	1814.44	-179.53	314.99	11.79	7.38	-1.58	-43.96	1.85	<b>S23.1I</b>	ELS3	133.13	-189.24	-78.29	-60.57	-5.30	-3.80	-36.32	-4.66
<b>S22.5I</b>	ELU5	2232.89	-95.65	564.10	32.45	3.92	3.69	-43.96	1.85	<b>S23.2D</b>	ELU5	200.90	-45.35	-592.39	-71.46	15.48	11.97	-46.69	17.95
<b>S22.5I</b>	ELU5	2221.59	-152.11	90.76	-77.42	-25.98	-17.43	-43.96	1.85	<b>S23.2D</b>	ELU5	251.41	207.23	111.89	43.67	45.80	-3.89	-46.69	17.95
<b>S22.5I</b>	ELS3	1579.03	-205.37	-79.84	-84.66	-19.05	-17.60	-38.31	1.73	<b>S23.2D</b>	ELU5	63.49	169.95	348.50	21.48	6.60	0.36	-46.69	17.95
<b>S22.5I</b>	ELS3	1593.53	-132.28	342.74	11.25	6.09	0.54	-38.31	1.73	<b>S23.2D</b>	ELU5	12.97	-82.63	-355.78	-96.98	-21.70	16.22	-46.69	17.95
<b>S22.5I</b>	ELS3	1957.99	-59.30	454.97	28.89	2.85	5.11	-38.31	1.73	<b>S23.2D</b>	ELS3	154.05	9.55	-447.78	-59.22	10.70	10.06	-39.01	14.31
<b>S22.5I</b>	ELS3	1943.36	-132.41	32.38	-66.83	-23.19	-13.01	-38.31	1.73	<b>S23.2D</b>	ELS3	194.63	212.45	97.08	37.06	35.63	-2.69	-39.01	14.31
<b>S22.6D</b>	ELU5	-551.77	398.06	837.26	-114.87	-19.68	20.37	-45.37	-9.21	<b>S23.2D</b>	ELS3	64.32	186.61	269.04	19.23	4.35	0.58	-39.01	14.31





<b>S23.2D</b>	ELS3	23.74	-16.29	-275.81	-79.63	-18.88	13.33	-39.01	14.31	<b>S23.4I</b>	ELS3	298.73	3142.27	4185.35	-110.89	-11.66	-18.56	-53.80	-25.78
<b>S23.2I</b>	ELU5	263.54	223.87	-136.65	42.39	43.72	2.29	-45.21	-18.07	<b>S23.4I</b>	ELS3	8662.40	4816.65	2884.05	-150.91	-62.32	-22.94	-53.80	-25.78
<b>S23.2I</b>	ELU5	226.43	38.31	602.13	-69.29	14.32	-12.62	-45.21	-18.07	<b>S23.4I</b>	ELS3	7788.27	445.99	-106.92	-12.20	-33.48	1.45	-53.80	-25.78
<b>S23.2I</b>	ELU5	-30.42	-12.74	348.10	-93.64	-23.16	-16.78	-45.21	-18.07	<b>S23.5D</b>	ELU5	10218.88	2520.84	1987.26	-179.65	-42.35	3.74	-65.42	-10.92
<b>S23.2I</b>	ELU5	6.70	172.82	-390.68	20.86	4.31	-1.87	-45.21	-18.07	<b>S23.5D</b>	ELU5	9942.39	1139.52	-201.34	-12.60	-19.41	23.58	-65.42	-10.92
<b>S23.2I</b>	ELS3	219.55	242.87	-90.50	36.47	35.07	2.87	-38.98	-14.65	<b>S23.5D</b>	ELU5	-1034.54	-1057.11	1108.18	8.97	6.27	18.41	-65.42	-10.92
<b>S23.2I</b>	ELS3	188.60	88.11	526.02	-59.73	10.13	-10.28	-38.98	-14.65	<b>S23.5D</b>	ELU5	-758.70	324.09	3296.72	-151.30	-21.46	-1.47	-65.42	-10.92
<b>S23.2I</b>	ELS3	-9.07	48.85	306.81	-80.71	-20.15	-13.53	-38.98	-14.65	<b>S23.5D</b>	ELS3	8092.98	2092.66	1550.88	-145.94	-36.01	0.75	-53.64	-9.14
<b>S23.2I</b>	ELS3	21.88	203.62	-309.72	18.10	3.01	-0.39	-38.98	-14.65	<b>S23.5D</b>	ELS3	7845.16	854.72	-315.01	-9.02	-16.28	17.10	-53.64	-9.14
<b>S23.3D</b>	ELU5	168.76	696.31	808.16	-95.02	20.90	19.17	-53.85	35.37	<b>S23.5D</b>	ELS3	-806.64	-876.78	897.14	8.88	5.20	13.52	-53.64	-9.14
<b>S23.3D</b>	ELU5	191.33	809.16	-567.21	36.59	49.37	-2.11	-53.85	35.37	<b>S23.5D</b>	ELS3	-559.37	361.04	2762.97	-122.59	-18.48	-2.85	-53.64	-9.14
<b>S23.3D</b>	ELU5	-367.22	695.88	-1809.60	2.87	-27.96	-2.46	-53.85	35.37	<b>S23.5I</b>	ELU5	9006.54	1204.50	-317.20	-10.92	-18.78	-23.53	-61.33	10.83
<b>S23.3D</b>	ELU5	-389.79	583.02	-434.23	-134.87	-52.26	18.82	-53.85	35.37	<b>S23.5I</b>	ELU5	9175.22	2047.76	-1908.69	-167.43	-38.79	-3.64	-61.33	10.83
<b>S23.3D</b>	ELS3	133.68	533.40	599.82	-77.99	13.82	16.01	-44.39	26.28	<b>S23.5I</b>	ELU5	-849.10	42.48	-2345.26	-139.36	-17.77	2.42	-61.33	10.83
<b>S23.3D</b>	ELS3	161.97	674.84	-429.02	30.61	36.71	-1.73	-44.39	26.28	<b>S23.5I</b>	ELU5	-1017.32	-800.68	-753.81	10.97	6.40	-17.51	-61.33	10.83
<b>S23.3D</b>	ELS3	-329.26	575.43	-1347.42	3.73	-20.97	-2.45	-44.39	26.28	<b>S23.5I</b>	ELS3	7911.27	1060.88	-270.78	-8.91	-16.75	-18.11	-53.77	9.39
<b>S23.3D</b>	ELS3	-357.55	433.99	-318.58	-109.73	-40.34	15.29	-44.39	26.28	<b>S23.5I</b>	ELS3	8071.47	1861.66	-1708.23	-146.07	-34.93	-0.61	-53.77	9.39
<b>S23.3I</b>	ELU5	119.05	734.61	531.02	34.30	44.65	0.06	-51.10	-32.74	<b>S23.5I</b>	ELS3	-731.79	100.67	-2067.20	-121.50	-16.74	4.25	-53.77	9.39
<b>S23.3I</b>	ELU5	114.97	714.22	-876.76	-90.76	18.07	-19.16	-51.10	-32.74	<b>S23.5I</b>	ELS3	-891.57	-700.02	-629.80	10.34	5.09	-13.29	-53.77	9.39
<b>S23.3I</b>	ELU5	-222.51	645.05	444.18	-127.07	-49.55	-18.49	-51.10	-32.74	<b>S23.6D</b>	ELU5	135.47	-293.43	-975.42	-109.31	-0.05	-16.68	-57.52	-16.73
<b>S23.3I</b>	ELU5	-218.43	665.44	1851.97	3.47	-27.04	0.74	-51.10	-32.74	<b>S23.6D</b>	ELU5	-923.84	-506.50	287.38	-147.81	-35.44	-6.00	-57.52	-16.73
<b>S23.3I</b>	ELS3	118.79	688.19	469.86	29.42	35.39	1.39	-44.29	-26.50	<b>S23.6D</b>	ELU5	-751.61	358.09	956.03	-2.97	-22.03	23.83	-57.52	-16.73
<b>S23.3I</b>	ELS3	113.97	664.06	-737.08	-78.91	13.06	-15.70	-44.29	-26.50	<b>S23.6D</b>	ELU5	307.90	571.20	-306.73	33.64	13.75	13.11	-57.52	-16.73
<b>S23.3I</b>	ELS3	-210.17	597.77	421.53	-110.10	-41.48	-14.56	-44.29	-26.50	<b>S23.6D</b>	ELS3	101.04	-202.39	-808.19	-88.84	0.51	-14.42	-47.29	-15.10
<b>S23.3I</b>	ELS3	-205.34	621.89	1628.47	3.14	-22.83	2.53	-44.29	-26.50	<b>S23.6D</b>	ELS3	-703.66	-364.34	254.10	-120.17	-31.46	-6.13	-47.29	-15.10
<b>S23.4D</b>	ELU5	248.45	3774.21	-4595.00	-135.17	-9.80	24.17	-65.96	36.49	<b>S23.6D</b>	ELS3	-574.20	285.88	805.93	-1.12	-19.72	17.52	-47.29	-15.10
<b>S23.4D</b>	ELU5	-800.93	-1472.66	-1280.43	24.79	37.65	-6.99	-65.96	36.49	<b>S23.6D</b>	ELS3	230.66	447.86	-256.33	28.69	12.53	9.20	-47.29	-15.10
<b>S23.4D</b>	ELU5	9846.02	657.74	-484.63	-17.53	-44.95	-0.21	-65.96	36.49	<b>S23.6I</b>	ELU5	-961.82	-525.16	-126.49	-136.61	-33.63	6.46	-54.16	16.78
<b>S23.4D</b>	ELU5	10895.39	5904.60	-3799.20	-187.56	-82.46	30.94	-65.96	36.49	<b>S23.6I</b>	ELU5	127.07	-306.54	764.28	-99.22	1.90	15.89	-54.16	16.78
<b>S23.4D</b>	ELS3	102.80	2735.76	-3425.97	-110.36	-8.98	19.16	-53.81	26.19	<b>S23.6I</b>	ELU5	295.20	535.79	238.65	35.42	15.75	-12.88	-54.16	16.78
<b>S23.4D</b>	ELS3	-662.40	-1090.25	-942.88	20.19	26.88	-5.66	-53.81	26.19	<b>S23.6I</b>	ELU5	-793.84	317.14	-652.09	-0.25	-20.08	-22.34	-54.16	16.78
<b>S23.4D</b>	ELS3	7794.56	601.70	-497.07	-12.26	-32.83	-2.11	-53.81	26.19	<b>S23.6I</b>	ELS3	-835.50	-421.41	-105.58	-119.38	-31.40	7.58	-47.62	15.12
<b>S23.4D</b>	ELS3	8559.76	4427.71	-2980.16	-150.91	-60.71	22.71	-53.81	26.19	<b>S23.6I</b>	ELS3	100.38	-233.48	683.54	-86.80	0.63	15.45	-47.62	15.12
<b>S23.4I</b>	ELU5	-639.49	-1439.86	1294.81	22.83	32.04	4.85	-61.79	-31.73	<b>S23.6I</b>	ELS3	242.64	479.29	213.84	31.60	13.40	-9.42	-47.62	15.12
<b>S23.4I</b>	ELU5	371.14	3613.33	4774.13	-127.08	-11.85	-23.38	-61.79	-31.73	<b>S23.6I</b>	ELS3	-693.38	291.34	-575.24	0.49	-18.88	-17.31	-47.62	15.12
<b>S23.4I</b>	ELU5	9868.53	5514.63	3326.95	-174.07	-74.60	-29.27	-61.79	-31.73										
<b>S23.4I</b>	ELU5	8857.89	461.45	-152.37	-14.86	-40.21	-1.04	-61.79	-31.73										
<b>S23.4I</b>	ELS3	-575.40	-1228.39	1194.38	19.56	25.56	5.84	-53.80	-25.78										



## II.3. Reacciones en los apoyos

TABLE: Joint Reactions							
Joint	OutputCase	F1	F2	F3	M1	M2	M3
Text	Text	KN	KN	KN	KN-m	KN-m	KN-m
1D	ELU5	0.00	0.00	1593.84	0.00	0.00	0.00
1D	ELS3	0.00	0.00	1362.43	0.00	0.00	0.00
1I	ELU5	0.00	0.00	1344.85	0.00	0.00	0.00
1I	ELS3	0.00	0.00	1321.11	0.00	0.00	0.00
A1	ELU5	126.69	0.00	12244.31	84892.95	0.00	0.00
A1	ELS3	0.00	0.00	10754.64	70421.88	0.00	0.00
A28D	ELU5	173.65	0.00	11643.21	21213.27	0.00	0.00
A28D	ELS3	0.00	0.00	9462.81	20199.14	0.00	0.00
A28I	ELU5	0.00	0.00	10365.90	17334.22	0.00	0.00
A28I	ELS3	0.00	0.00	9393.07	15301.24	0.00	0.00

## II.4. Desplazamientos en los nudos

TABLE: Joint Displacements							
Joint	OutputCase	U1	U2	U3	R1	R2	R3
Text	Text	m	m	m	Radians	Radians	Radians
1D	ELU5	-0.002	0.003	0.000	0.020	0.000	0.000
1D	ELS3	-0.001	0.002	0.000	0.016	0.000	0.000
1I	ELU5	0.001	0.002	0.000	0.018	0.000	0.000
1I	ELS3	0.001	0.002	0.000	0.016	0.000	0.000
2D	ELU5	-0.001	0.001	-0.051	0.019	0.000	0.000
2D	ELS3	0.000	0.000	-0.041	0.015	0.000	0.000
2I	ELU5	0.000	0.001	-0.046	0.018	0.000	0.000
2I	ELS3	0.000	0.001	-0.041	0.015	0.000	0.000
3D	ELU5	0.000	-0.002	-0.097	0.017	0.000	0.000
3D	ELS3	0.000	-0.002	-0.079	0.014	0.000	0.000
3I	ELU5	0.000	-0.002	-0.089	0.016	-0.001	0.000
3I	ELS3	0.000	-0.001	-0.078	0.014	0.000	0.000
4D	ELU5	0.000	-0.004	-0.136	0.013	0.002	0.000
4D	ELS3	0.000	-0.004	-0.110	0.011	0.001	0.000
4I	ELU5	0.001	-0.004	-0.125	0.012	-0.003	0.000
4I	ELS3	0.001	-0.003	-0.109	0.011	-0.001	0.000
5D	ELU5	-0.001	-0.007	-0.165	0.010	0.003	0.000

5D	ELS3	0.000	-0.006	-0.133	0.008	0.002	0.000
5I	ELU5	0.002	-0.006	-0.152	0.009	-0.004	0.000
5I	ELS3	0.001	-0.005	-0.132	0.008	-0.002	0.000
6D	ELU5	-0.001	-0.009	-0.185	0.006	0.004	0.000
6D	ELS3	-0.001	-0.008	-0.148	0.005	0.003	0.000
6I	ELU5	0.002	-0.008	-0.170	0.006	-0.005	0.000
6I	ELS3	0.001	-0.007	-0.147	0.005	-0.003	0.000
7D	ELU5	-0.001	-0.011	-0.194	0.002	0.005	0.000
7D	ELS3	-0.001	-0.009	-0.156	0.002	0.003	0.000
7I	ELU5	0.003	-0.010	-0.179	0.002	-0.006	0.000
7I	ELS3	0.002	-0.009	-0.155	0.002	-0.004	0.000
8D	ELU5	-0.002	-0.012	-0.196	0.001	0.005	0.000
8D	ELS3	-0.001	-0.010	-0.157	0.001	0.004	0.000
8I	ELU5	0.003	-0.011	-0.182	0.001	-0.007	0.000
8I	ELS3	0.002	-0.010	-0.156	0.001	-0.004	0.000
9D	ELU5	-0.002	-0.013	-0.198	0.000	0.006	0.000
9D	ELS3	-0.001	-0.011	-0.158	0.000	0.004	0.000
9I	ELU5	0.003	-0.012	-0.184	0.000	-0.007	0.000
9I	ELS3	0.002	-0.010	-0.157	0.000	-0.004	0.000
A1	ELU5	0.000	0.000	0.000	0.000	0.000	0.000
A1	ELS3	0.000	0.000	0.000	0.000	0.000	0.000
A2	ELU5	-0.001	0.001	0.001	-0.001	0.000	0.000
A2	ELS3	0.000	0.001	0.000	-0.001	0.000	0.000
A3	ELU5	-0.003	0.004	0.003	-0.003	0.000	0.000
A3	ELS3	0.000	0.004	0.003	-0.002	0.000	0.000
A4	ELU5	-0.005	0.012	0.011	-0.006	0.000	-0.001
A4	ELS3	0.000	0.010	0.009	-0.005	0.000	0.000
A5	ELU5	-0.007	0.026	0.027	-0.010	0.000	0.000
A5	ELS3	-0.001	0.022	0.023	-0.009	0.000	0.000
A6	ELU5	-0.008	0.044	0.052	-0.011	0.000	0.000
A6	ELS3	-0.001	0.037	0.043	-0.009	0.000	0.000
A7	ELU5	-0.009	0.053	0.066	-0.001	0.000	0.000
A7	ELS3	-0.001	0.045	0.055	-0.001	0.000	0.000
A8	ELU5	-0.010	0.050	0.052	0.012	0.000	0.000
A8	ELS3	-0.001	0.042	0.044	0.009	0.000	0.000
A9	ELU5	-0.010	0.039	0.013	0.019	0.000	0.000
A9	ELS3	0.000	0.033	0.012	0.016	0.000	0.000



1.000	ELU5	0.000	0.000	0.000	0.000	0.000	0.000
1.000	ELS3	0.000	0.000	0.000	0.000	0.000	0.000
10D	ELU5	-0.002	-0.014	-0.196	-0.001	0.006	0.000
10D	ELS3	-0.001	-0.011	-0.156	-0.001	0.004	0.000
10I	ELU5	0.004	-0.013	-0.182	-0.001	-0.007	0.000
10I	ELS3	0.002	-0.011	-0.155	-0.001	-0.004	0.000
11D	ELU5	-0.002	-0.014	-0.191	-0.001	0.007	0.000
11D	ELS3	-0.001	-0.012	-0.151	-0.001	0.004	0.000
11I	ELU5	0.004	-0.013	-0.178	-0.001	-0.008	0.000
11I	ELS3	0.003	-0.011	-0.151	-0.001	-0.005	0.000
12D	ELU5	-0.002	-0.014	-0.190	-0.001	0.007	0.000
12D	ELS3	-0.001	-0.012	-0.149	-0.001	0.004	0.000
12I	ELU5	0.004	-0.014	-0.177	-0.001	-0.008	0.000
12I	ELS3	0.003	-0.011	-0.149	-0.001	-0.004	0.000
13D	ELU5	-0.003	-0.015	-0.187	-0.002	0.008	0.000
13D	ELS3	-0.001	-0.012	-0.146	-0.002	0.004	0.000
13I	ELU5	0.005	-0.014	-0.174	-0.002	-0.009	0.000
13I	ELS3	0.003	-0.012	-0.145	-0.002	-0.004	0.000
14D	ELU5	-0.003	-0.015	-0.182	-0.002	0.009	0.000
14D	ELS3	-0.001	-0.013	-0.142	-0.001	0.005	0.000
14I	ELU5	0.005	-0.014	-0.169	-0.002	-0.009	0.000
14I	ELS3	0.003	-0.012	-0.141	-0.001	-0.005	0.000
15D	ELU5	-0.003	-0.016	-0.179	-0.002	0.008	0.000
15D	ELS3	-0.001	-0.013	-0.139	-0.001	0.004	0.000
15I	ELU5	0.005	-0.015	-0.166	-0.002	-0.009	0.000
15I	ELS3	0.003	-0.012	-0.139	-0.001	-0.004	0.000
16D	ELU5	-0.002	-0.017	-0.173	-0.003	0.007	0.000
16D	ELS3	-0.001	-0.014	-0.135	-0.002	0.004	0.000
16I	ELU5	0.005	-0.016	-0.161	-0.003	-0.008	0.000
16I	ELS3	0.003	-0.013	-0.135	-0.002	-0.004	0.000
17D	ELU5	-0.002	-0.018	-0.162	-0.005	0.007	0.000
17D	ELS3	-0.001	-0.014	-0.128	-0.003	0.004	0.000
17I	ELU5	0.004	-0.017	-0.151	-0.004	-0.007	0.000
17I	ELS3	0.003	-0.014	-0.128	-0.003	-0.004	0.000
18D	ELU5	-0.001	-0.019	-0.150	-0.006	0.006	0.000
18D	ELS3	-0.001	-0.015	-0.120	-0.004	0.004	0.000
18I	ELU5	0.004	-0.018	-0.140	-0.005	-0.007	0.000
18I	ELS3	0.003	-0.015	-0.119	-0.004	-0.004	0.000

19D	ELU5	-0.001	-0.020	-0.134	-0.008	0.006	0.000
19D	ELS3	0.000	-0.016	-0.107	-0.006	0.004	0.000
19I	ELU5	0.004	-0.019	-0.125	-0.008	-0.006	0.000
19I	ELS3	0.003	-0.016	-0.107	-0.006	-0.004	0.000
2.000	ELU5	0.000	0.011	-0.041	0.030	0.000	0.000
2.000	ELS3	0.000	0.009	-0.033	0.024	0.000	0.000
20D	ELU5	-0.001	-0.022	-0.110	-0.011	0.005	0.000
20D	ELS3	0.000	-0.018	-0.088	-0.008	0.004	0.000
20I	ELU5	0.004	-0.020	-0.102	-0.010	-0.006	0.000
20I	ELS3	0.003	-0.017	-0.088	-0.008	-0.004	0.000
21D	ELU5	-0.001	-0.023	-0.080	-0.012	0.005	0.000
21D	ELS3	0.000	-0.019	-0.065	-0.010	0.004	0.000
21I	ELU5	0.004	-0.022	-0.075	-0.012	-0.005	0.000
21I	ELS3	0.003	-0.018	-0.064	-0.010	-0.004	0.000
22D	ELU5	-0.001	-0.024	-0.047	-0.013	0.005	0.000
22D	ELS3	0.000	-0.020	-0.038	-0.010	0.003	0.000
22I	ELU5	0.004	-0.023	-0.044	-0.012	-0.005	0.000
22I	ELS3	0.003	-0.019	-0.038	-0.010	-0.003	0.000
23D	ELU5	0.000	-0.025	-0.016	-0.010	0.004	0.000
23D	ELS3	0.000	-0.020	-0.013	-0.008	0.003	0.000
23I	ELU5	0.004	-0.023	-0.015	-0.009	-0.004	0.000
23I	ELS3	0.003	-0.019	-0.013	-0.008	-0.003	0.000
24D	ELU5	-0.001	-0.024	0.001	0.000	0.002	0.000
24D	ELS3	-0.001	-0.019	0.001	0.000	0.002	0.000
24I	ELU5	0.005	-0.023	0.001	0.000	-0.002	0.001
24I	ELS3	0.004	-0.019	0.000	0.000	-0.001	0.001
3.000	ELU5	0.000	0.001	-0.103	0.018	-0.001	0.000
3.000	ELS3	0.000	0.001	-0.083	0.015	0.000	0.000
4.000	ELU5	0.000	-0.001	-0.148	0.018	-0.001	0.000
4.000	ELS3	0.000	-0.001	-0.121	0.014	0.000	0.000
5.000	ELU5	0.001	-0.007	-0.182	0.009	-0.001	0.000
5.000	ELS3	0.000	-0.006	-0.148	0.008	0.000	0.000
6.000	ELU5	0.001	-0.008	-0.203	0.008	-0.001	0.000
6.000	ELS3	0.000	-0.007	-0.165	0.006	0.000	0.000
7.000	ELU5	0.001	-0.011	-0.216	0.003	-0.001	0.000
7.000	ELS3	0.000	-0.010	-0.175	0.002	0.000	0.000
8.000	ELU5	0.001	-0.012	-0.222	0.002	-0.001	0.000
8.000	ELS3	0.001	-0.010	-0.179	0.002	0.000	0.000



9.000	ELU5	0.001	-0.013	-0.225	0.000	-0.001	0.000
9.000	ELS3	0.001	-0.011	-0.181	-0.001	0.000	0.000
A10	ELU5	-0.009	0.027	-0.038	0.022	0.000	0.000
A10	ELS3	0.000	0.023	-0.031	0.018	0.000	0.000
A11	ELU5	-0.009	0.018	-0.090	0.019	0.000	0.000
A11	ELS3	0.000	0.015	-0.074	0.016	0.000	0.000
A12	ELU5	-0.008	0.014	-0.130	0.012	0.000	0.000
A12	ELS3	0.000	0.012	-0.107	0.010	0.000	0.000
A13	ELU5	-0.007	0.013	-0.149	0.003	0.000	0.000
A13	ELS3	0.000	0.012	-0.123	0.003	0.000	0.000
A14	ELU5	-0.006	0.014	-0.147	-0.004	0.000	0.000
A14	ELS3	0.000	0.012	-0.121	-0.003	0.000	0.000
A15	ELU5	-0.004	0.014	-0.130	-0.008	0.000	0.000
A15	ELS3	0.000	0.012	-0.108	-0.007	0.000	0.000
A16	ELU5	-0.004	0.011	-0.107	-0.009	0.001	0.000
A16	ELS3	0.000	0.010	-0.089	-0.008	0.000	0.000
A17	ELU5	-0.003	0.007	-0.087	-0.009	0.001	0.000
A17	ELS3	0.000	0.007	-0.073	-0.007	0.000	0.000
C1D	ELU5	0.001	-0.013	-0.165	0.010	0.003	0.000
C1D	ELS3	0.001	-0.011	-0.133	0.008	0.002	0.000
C1I	ELU5	-0.001	-0.012	-0.152	0.009	-0.004	0.000
C1I	ELS3	-0.001	-0.010	-0.132	0.008	-0.002	0.000
C2D	ELU5	0.002	-0.013	-0.196	0.001	0.005	0.000
C2D	ELS3	0.002	-0.011	-0.157	0.001	0.004	0.000
C2I	ELU5	-0.001	-0.012	-0.182	0.001	-0.007	0.000
C2I	ELS3	-0.001	-0.010	-0.156	0.001	-0.004	0.000
C3D	ELU5	0.002	-0.013	-0.191	-0.001	0.007	0.000
C3D	ELS3	0.002	-0.011	-0.151	-0.001	0.004	0.000
C3I	ELU5	-0.001	-0.013	-0.178	-0.001	-0.008	0.000
C3I	ELS3	0.000	-0.010	-0.151	-0.001	-0.005	0.000
C4D	ELU5	0.003	-0.014	-0.182	-0.002	0.009	0.000
C4D	ELS3	0.002	-0.012	-0.142	-0.001	0.005	0.000
C4I	ELU5	-0.001	-0.013	-0.169	-0.002	-0.009	0.000
C4I	ELS3	0.000	-0.011	-0.141	-0.001	-0.005	0.000
C5D	ELU5	0.003	-0.015	-0.162	-0.005	0.007	0.000
C5D	ELS3	0.002	-0.012	-0.128	-0.003	0.004	0.000
C5I	ELU5	0.000	-0.014	-0.151	-0.004	-0.007	0.000
C5I	ELS3	0.000	-0.012	-0.128	-0.003	-0.004	0.000

C6D	ELU5	0.003	-0.015	-0.110	-0.011	0.005	0.000
C6D	ELS3	0.002	-0.012	-0.088	-0.008	0.004	0.000
C6I	ELU5	0.000	-0.014	-0.102	-0.010	-0.006	0.000
C6I	ELS3	0.001	-0.012	-0.088	-0.008	-0.004	0.000
D1D	ELU5	0.000	0.000	-0.011	0.007	-0.005	0.000
D1D	ELS3	0.000	0.000	-0.008	0.006	-0.004	0.000
D1I	ELU5	0.000	-0.001	-0.009	0.007	0.004	0.000
D1I	ELS3	0.000	0.000	-0.008	0.006	0.004	0.000
D2D	ELU5	0.000	0.000	-0.035	0.012	-0.007	0.000
D2D	ELS3	0.000	-0.001	-0.028	0.010	-0.006	0.000
D2I	ELU5	0.000	-0.001	-0.032	0.012	0.006	0.000
D2I	ELS3	0.000	0.000	-0.028	0.010	0.006	0.000
D3D	ELU5	0.000	-0.001	-0.066	0.016	-0.006	0.000
D3D	ELS3	0.000	-0.001	-0.053	0.013	-0.005	0.000
D3I	ELU5	0.000	-0.001	-0.061	0.015	0.005	0.000
D3I	ELS3	0.000	-0.001	-0.052	0.013	0.005	0.000
D4D	ELU5	0.000	-0.002	-0.092	0.017	0.000	0.000
D4D	ELS3	0.000	-0.002	-0.075	0.014	0.000	0.000
D4I	ELU5	0.000	-0.002	-0.085	0.016	-0.001	0.000
D4I	ELS3	0.000	-0.001	-0.074	0.014	0.000	0.000
H1D	ELU5	-0.002	-0.006	0.000	0.020	0.000	0.000
H1D	ELS3	-0.001	-0.005	0.000	0.016	0.000	0.000
H1I	ELU5	0.001	-0.006	0.000	0.018	0.000	0.000
H1I	ELS3	0.001	-0.005	0.000	0.016	0.000	0.000
H2D	ELU5	-0.001	-0.008	-0.051	0.019	0.000	0.000
H2D	ELS3	0.000	-0.007	-0.041	0.015	0.000	0.000
H2I	ELU5	0.000	-0.007	-0.046	0.018	0.000	0.000
H2I	ELS3	0.001	-0.006	-0.041	0.015	0.000	0.000
H3D	ELU5	0.000	-0.009	-0.097	0.017	0.000	0.000
H3D	ELS3	0.000	-0.008	-0.079	0.014	0.000	0.000
H3I	ELU5	0.000	-0.009	-0.089	0.016	-0.001	0.000
H3I	ELS3	0.000	-0.007	-0.078	0.014	0.000	0.000
H4D	ELU5	0.000	-0.010	-0.136	0.013	0.002	0.000
H4D	ELS3	0.001	-0.009	-0.110	0.011	0.001	0.000
H4I	ELU5	0.000	-0.010	-0.125	0.012	-0.003	0.000
H4I	ELS3	0.000	-0.008	-0.109	0.011	-0.001	0.000
H5D	ELU5	0.001	-0.011	-0.165	0.010	0.003	0.000
H5D	ELS3	0.001	-0.009	-0.133	0.008	0.002	0.000





<b>H5I</b>	ELU5	0.000	-0.010	-0.152	0.009	-0.004	0.000
<b>H5I</b>	ELS3	0.000	-0.009	-0.132	0.008	-0.002	0.000
<b>H6D</b>	ELU5	0.001	-0.012	-0.185	0.006	0.004	0.000
<b>H6D</b>	ELS3	0.001	-0.010	-0.148	0.005	0.003	0.000
<b>H6I</b>	ELU5	0.000	-0.011	-0.170	0.006	-0.005	0.000
<b>H6I</b>	ELS3	0.000	-0.009	-0.147	0.005	-0.003	0.000
<b>H7D</b>	ELU5	0.001	-0.012	-0.194	0.002	0.005	0.000
<b>H7D</b>	ELS3	0.001	-0.010	-0.156	0.002	0.003	0.000
<b>H7I</b>	ELU5	0.000	-0.011	-0.179	0.002	-0.006	0.000
<b>H7I</b>	ELS3	0.000	-0.009	-0.155	0.002	-0.004	0.000
<b>H8D</b>	ELU5	0.001	-0.013	-0.196	0.001	0.005	0.000
<b>H8D</b>	ELS3	0.001	-0.010	-0.157	0.001	0.004	0.000
<b>H8I</b>	ELU5	0.000	-0.012	-0.182	0.001	-0.007	0.000
<b>H8I</b>	ELS3	0.000	-0.010	-0.156	0.001	-0.004	0.000
<b>H9D</b>	ELU5	0.001	-0.013	-0.198	0.000	0.006	0.000
<b>H9D</b>	ELS3	0.001	-0.011	-0.158	0.000	0.004	0.000
<b>H9I</b>	ELU5	0.000	-0.012	-0.184	0.000	-0.007	0.000
<b>H9I</b>	ELS3	0.000	-0.010	-0.157	0.000	-0.004	0.000
<b>1.1D</b>	ELU5	-0.001	0.000	-0.002	0.008	0.000	0.002
<b>1.1D</b>	ELS3	-0.001	-0.001	-0.001	0.006	0.000	0.001
<b>1.1I</b>	ELU5	0.001	0.000	0.000	0.008	0.000	-0.001
<b>1.1I</b>	ELS3	0.001	0.000	-0.001	0.006	0.000	-0.001
<b>1.2D</b>	ELU5	-0.002	0.002	-0.002	0.015	0.000	0.000
<b>1.2D</b>	ELS3	-0.001	0.001	-0.002	0.012	0.000	0.000
<b>1.2I</b>	ELU5	0.001	0.002	-0.001	0.014	0.000	0.000
<b>1.2I</b>	ELS3	0.001	0.002	-0.001	0.012	0.000	0.000
<b>1.3D</b>	ELU5	-0.002	0.003	-0.001	0.019	0.000	0.001
<b>1.3D</b>	ELS3	-0.001	0.002	-0.001	0.015	0.000	0.001
<b>1.3I</b>	ELU5	0.001	0.003	-0.001	0.017	0.000	-0.001
<b>1.3I</b>	ELS3	0.001	0.002	-0.001	0.015	0.000	-0.001
<b>1.4D</b>	ELU5	-0.002	0.003	0.000	0.020	0.000	0.000
<b>1.4D</b>	ELS3	-0.001	0.002	0.000	0.016	0.000	0.000
<b>1.4I</b>	ELU5	0.001	0.002	0.000	0.018	0.000	0.000
<b>1.4I</b>	ELS3	0.001	0.002	0.000	0.016	0.000	0.000
<b>1.5D</b>	ELU5	-0.002	0.002	0.000	0.020	0.000	0.000
<b>1.5D</b>	ELS3	-0.001	0.001	0.000	0.016	0.000	0.000
<b>1.5I</b>	ELU5	0.001	0.001	0.000	0.018	0.000	0.000
<b>1.5I</b>	ELS3	0.001	0.002	0.000	0.016	0.000	0.000

<b>1.6D</b>	ELU5	-0.001	-0.001	0.000	0.021	0.000	0.000
<b>1.6D</b>	ELS3	-0.001	-0.001	0.000	0.017	0.000	0.000
<b>1.6I</b>	ELU5	0.001	-0.001	0.000	0.019	0.000	0.000
<b>1.6I</b>	ELS3	0.001	0.000	0.000	0.017	0.000	0.000
<b>1.7D</b>	ELU5	-0.001	-0.005	0.000	0.022	0.000	0.000
<b>1.7D</b>	ELS3	-0.001	-0.004	-0.001	0.018	0.000	0.000
<b>1.7I</b>	ELU5	0.001	-0.004	0.000	0.019	0.000	0.000
<b>1.7I</b>	ELS3	0.001	-0.003	-0.001	0.017	0.001	0.000
<b>10.000</b>	ELU5	0.001	-0.013	-0.224	0.000	-0.001	0.000
<b>10.000</b>	ELS3	0.001	-0.011	-0.179	-0.001	0.000	0.000
<b>11.000</b>	ELU5	0.001	-0.014	-0.223	-0.001	-0.001	0.000
<b>11.000</b>	ELS3	0.001	-0.012	-0.176	-0.001	0.000	0.000
<b>12.000</b>	ELU5	0.001	-0.013	-0.224	0.001	-0.001	0.000
<b>12.000</b>	ELS3	0.001	-0.012	-0.174	-0.001	0.000	0.000
<b>13.000</b>	ELU5	0.001	-0.013	-0.228	0.001	-0.001	0.000
<b>13.000</b>	ELS3	0.001	-0.012	-0.171	-0.002	0.000	0.000
<b>14.000</b>	ELU5	0.002	-0.015	-0.228	-0.001	-0.002	0.000
<b>14.000</b>	ELS3	0.001	-0.012	-0.167	-0.001	0.000	0.000
<b>15.000</b>	ELU5	0.001	-0.017	-0.219	-0.005	-0.001	0.000
<b>15.000</b>	ELS3	0.001	-0.013	-0.164	-0.002	0.000	0.000
<b>16.000</b>	ELU5	0.001	-0.017	-0.207	-0.005	-0.001	0.000
<b>16.000</b>	ELS3	0.001	-0.013	-0.159	-0.002	0.000	0.000
<b>17.000</b>	ELU5	0.002	-0.017	-0.194	-0.005	-0.001	0.000
<b>17.000</b>	ELS3	0.001	-0.014	-0.152	-0.003	0.000	0.000
<b>18.000</b>	ELU5	0.002	-0.018	-0.180	-0.006	-0.001	0.000
<b>18.000</b>	ELS3	0.001	-0.014	-0.142	-0.005	0.000	0.000
<b>19.000</b>	ELU5	0.002	-0.019	-0.162	-0.009	-0.001	0.000
<b>19.000</b>	ELS3	0.001	-0.016	-0.129	-0.007	0.000	0.000
<b>2.1D</b>	ELU5	0.001	0.007	-0.044	0.024	-0.002	0.000
<b>2.1D</b>	ELS3	0.001	0.005	-0.035	0.019	-0.001	0.000
<b>2.1I</b>	ELU5	-0.001	0.007	-0.042	0.023	0.001	-0.001
<b>2.1I</b>	ELS3	-0.001	0.006	-0.035	0.019	0.001	0.000
<b>2.2D</b>	ELU5	0.000	0.003	-0.048	0.020	-0.002	0.001
<b>2.2D</b>	ELS3	0.001	0.002	-0.038	0.016	-0.001	0.001
<b>2.2I</b>	ELU5	0.000	0.003	-0.045	0.019	0.001	-0.001
<b>2.2I</b>	ELS3	0.000	0.003	-0.038	0.016	0.001	-0.001
<b>2.3D</b>	ELU5	0.000	0.002	-0.050	0.019	-0.001	0.000
<b>2.3D</b>	ELS3	0.000	0.001	-0.040	0.015	-0.001	0.000



2.3I	ELU5	0.000	0.001	-0.046	0.018	0.001	0.000
2.3I	ELS3	0.000	0.001	-0.040	0.015	0.001	0.000
2.4D	ELU5	-0.001	0.001	-0.051	0.019	0.000	0.000
2.4D	ELS3	0.000	0.000	-0.041	0.015	0.000	0.000
2.4I	ELU5	0.000	0.001	-0.046	0.018	0.000	0.000
2.4I	ELS3	0.000	0.001	-0.041	0.015	0.000	0.000
2.5D	ELU5	-0.001	0.000	-0.051	0.019	0.000	0.000
2.5D	ELS3	0.000	-0.001	-0.041	0.015	0.000	0.000
2.5I	ELU5	0.000	0.000	-0.046	0.018	0.000	0.000
2.5I	ELS3	0.000	0.000	-0.041	0.015	0.000	0.000
2.6D	ELU5	-0.001	-0.003	-0.052	0.020	-0.001	0.000
2.6D	ELS3	0.000	-0.003	-0.042	0.016	-0.001	0.000
2.6I	ELU5	0.000	-0.003	-0.047	0.018	0.000	0.000
2.6I	ELS3	0.000	-0.002	-0.042	0.016	0.001	0.000
2.7D	ELU5	-0.001	-0.007	-0.054	0.020	-0.001	0.000
2.7D	ELS3	0.000	-0.006	-0.045	0.016	-0.001	0.000
2.7I	ELU5	0.001	-0.006	-0.048	0.017	0.000	0.000
2.7I	ELS3	0.001	-0.005	-0.044	0.016	0.001	0.000
20.000	ELU5	0.002	-0.021	-0.137	-0.011	-0.001	0.000
20.000	ELS3	0.001	-0.017	-0.109	-0.009	0.000	0.000
21.000	ELU5	0.002	-0.022	-0.107	-0.013	0.000	0.000
21.000	ELS3	0.001	-0.018	-0.085	-0.011	0.000	0.000
22.000	ELU5	0.002	-0.023	-0.074	-0.012	0.000	0.000
22.000	ELS3	0.001	-0.019	-0.059	-0.010	0.000	0.000
23.000	ELU5	0.002	-0.022	-0.045	-0.010	0.000	0.000
23.000	ELS3	0.002	-0.018	-0.035	-0.008	0.000	0.000
24.000	ELU5	0.002	-0.021	-0.021	-0.007	0.000	0.000
24.000	ELS3	0.002	-0.017	-0.016	-0.006	0.000	0.000
3.1D	ELU5	0.000	0.003	-0.103	0.022	0.001	0.000
3.1D	ELS3	0.000	0.002	-0.083	0.018	0.001	0.000
3.1I	ELU5	0.001	0.003	-0.100	0.022	-0.002	0.000
3.1I	ELS3	0.000	0.002	-0.082	0.018	-0.001	0.000
3.2D	ELU5	0.000	0.002	-0.101	0.021	0.001	0.000
3.2D	ELS3	0.000	0.002	-0.081	0.017	0.001	0.000
3.2I	ELU5	0.000	0.002	-0.096	0.021	-0.002	0.000
3.2I	ELS3	0.000	0.002	-0.080	0.017	-0.001	0.000
3.3D	ELU5	0.000	0.000	-0.099	0.019	0.001	0.001
3.3D	ELS3	0.000	0.000	-0.079	0.015	0.000	0.001

3.3I	ELU5	0.000	0.000	-0.092	0.018	-0.001	0.000
3.3I	ELS3	0.000	0.000	-0.079	0.015	0.000	0.000
3.4D	ELU5	0.000	-0.002	-0.098	0.017	0.000	0.000
3.4D	ELS3	0.000	-0.002	-0.079	0.014	0.000	0.000
3.4I	ELU5	0.000	-0.002	-0.089	0.016	-0.001	0.000
3.4I	ELS3	0.000	-0.001	-0.078	0.014	0.000	0.000
3.5D	ELU5	0.000	-0.002	-0.097	0.017	0.000	0.000
3.5D	ELS3	0.000	-0.002	-0.079	0.014	0.000	0.000
3.5I	ELU5	0.000	-0.002	-0.089	0.016	-0.001	0.000
3.5I	ELS3	0.000	-0.002	-0.078	0.014	0.000	0.000
3.6D	ELU5	0.000	-0.005	-0.097	0.016	0.000	0.000
3.6D	ELS3	0.000	-0.005	-0.079	0.013	0.000	0.000
3.6I	ELU5	0.000	-0.005	-0.088	0.014	-0.001	0.000
3.6I	ELS3	0.000	-0.004	-0.078	0.013	0.000	0.000
3.7D	ELU5	0.000	-0.009	-0.098	0.015	0.000	0.000
3.7D	ELS3	0.000	-0.007	-0.081	0.012	-0.001	0.000
3.7I	ELU5	0.000	-0.008	-0.087	0.013	0.000	0.000
3.7I	ELS3	0.000	-0.007	-0.080	0.012	0.001	0.000
4.1D	ELU5	0.000	-0.003	-0.149	0.015	0.000	0.000
4.1D	ELS3	0.000	-0.002	-0.120	0.012	0.001	0.000
4.1I	ELU5	0.001	-0.003	-0.145	0.015	-0.002	0.000
4.1I	ELS3	0.000	-0.002	-0.120	0.012	-0.001	0.000
4.2D	ELU5	0.000	-0.003	-0.147	0.015	0.002	0.000
4.2D	ELS3	0.000	-0.003	-0.118	0.012	0.002	0.000
4.2I	ELU5	0.001	-0.003	-0.140	0.014	-0.003	0.000
4.2I	ELS3	0.001	-0.002	-0.117	0.012	-0.002	0.000
4.3D	ELU5	-0.001	-0.003	-0.142	0.015	0.002	0.000
4.3D	ELS3	0.000	-0.003	-0.114	0.012	0.002	0.000
4.3I	ELU5	0.001	-0.003	-0.132	0.014	-0.004	0.000
4.3I	ELS3	0.001	-0.003	-0.113	0.012	-0.002	0.000
4.4D	ELU5	0.000	-0.004	-0.137	0.013	0.002	0.000
4.4D	ELS3	0.000	-0.004	-0.111	0.011	0.001	0.000
4.4I	ELU5	0.001	-0.004	-0.126	0.012	-0.003	0.000
4.4I	ELS3	0.001	-0.003	-0.110	0.011	-0.001	0.000
4.5D	ELU5	0.000	-0.005	-0.135	0.013	0.002	0.000
4.5D	ELS3	0.000	-0.004	-0.109	0.011	0.001	0.000
4.5I	ELU5	0.001	-0.004	-0.124	0.012	-0.003	0.000
4.5I	ELS3	0.000	-0.004	-0.108	0.011	-0.001	0.000



4.6D	ELU5	0.000	-0.007	-0.133	0.012	0.001	0.000
4.6D	ELS3	0.000	-0.006	-0.108	0.010	0.001	0.000
4.6I	ELU5	0.000	-0.007	-0.120	0.011	-0.002	0.000
4.6I	ELS3	0.000	-0.006	-0.107	0.010	-0.001	0.000
4.7D	ELU5	0.000	-0.010	-0.131	0.011	0.001	0.000
4.7D	ELS3	0.000	-0.008	-0.107	0.009	0.000	0.000
4.7I	ELU5	0.000	-0.009	-0.116	0.009	-0.002	0.000
4.7I	ELS3	0.000	-0.008	-0.106	0.009	0.000	0.000
5.1D	ELU5	0.000	-0.006	-0.182	0.012	0.001	0.000
5.1D	ELS3	0.000	-0.005	-0.147	0.009	0.001	0.000
5.1I	ELU5	0.001	-0.005	-0.178	0.011	-0.003	0.000
5.1I	ELS3	0.001	-0.005	-0.147	0.009	-0.001	0.000
5.2D	ELU5	0.000	-0.006	-0.179	0.011	0.002	0.000
5.2D	ELS3	0.000	-0.005	-0.144	0.009	0.002	0.000
5.2I	ELU5	0.001	-0.006	-0.171	0.011	-0.004	0.000
5.2I	ELS3	0.001	-0.005	-0.143	0.009	-0.002	0.000
5.3D	ELU5	-0.001	-0.007	-0.173	0.010	0.003	0.000
5.3D	ELS3	0.000	-0.006	-0.139	0.008	0.002	0.000
5.3I	ELU5	0.002	-0.006	-0.162	0.010	-0.005	0.000
5.3I	ELS3	0.001	-0.005	-0.138	0.008	-0.003	0.000
5.4D	ELU5	-0.001	-0.007	-0.167	0.010	0.003	0.000
5.4D	ELS3	0.000	-0.006	-0.134	0.008	0.002	0.000
5.4I	ELU5	0.002	-0.007	-0.154	0.009	-0.004	0.000
5.4I	ELS3	0.001	-0.006	-0.133	0.008	-0.002	0.000
5.5D	ELU5	-0.001	-0.007	-0.164	0.010	0.003	0.000
5.5D	ELS3	0.000	-0.006	-0.132	0.008	0.002	0.000
5.5I	ELU5	0.001	-0.007	-0.150	0.009	-0.004	0.000
5.5I	ELS3	0.001	-0.006	-0.131	0.008	-0.002	0.000
5.6D	ELU5	0.000	-0.009	-0.159	0.009	0.003	0.000
5.6D	ELS3	0.000	-0.008	-0.129	0.007	0.002	0.000
5.6I	ELU5	0.001	-0.008	-0.143	0.008	-0.004	0.000
5.6I	ELS3	0.000	-0.007	-0.127	0.007	-0.002	0.000
5.7D	ELU5	0.000	-0.011	-0.155	0.008	0.002	0.000
5.7D	ELS3	0.000	-0.009	-0.126	0.006	0.001	0.000
5.7I	ELU5	0.000	-0.010	-0.136	0.007	-0.003	0.000
5.7I	ELS3	0.000	-0.008	-0.124	0.006	-0.001	0.000
6.1D	ELU5	0.000	-0.009	-0.204	0.006	0.001	0.000
6.1D	ELS3	0.000	-0.008	-0.165	0.005	0.001	0.000

6.1I	ELU5	0.001	-0.009	-0.200	0.006	-0.002	0.000
6.1I	ELS3	0.001	-0.008	-0.164	0.005	-0.001	0.000
6.2D	ELU5	-0.001	-0.009	-0.201	0.007	0.003	0.000
6.2D	ELS3	0.000	-0.008	-0.161	0.005	0.002	0.000
6.2I	ELU5	0.002	-0.009	-0.192	0.006	-0.004	0.000
6.2I	ELS3	0.001	-0.007	-0.160	0.005	-0.002	0.000
6.3D	ELU5	-0.001	-0.009	-0.193	0.006	0.004	0.000
6.3D	ELS3	-0.001	-0.008	-0.155	0.005	0.003	0.000
6.3I	ELU5	0.002	-0.008	-0.182	0.006	-0.005	0.000
6.3I	ELS3	0.001	-0.007	-0.154	0.005	-0.003	0.000
6.4D	ELU5	-0.001	-0.009	-0.187	0.006	0.004	0.000
6.4D	ELS3	-0.001	-0.008	-0.150	0.005	0.003	0.000
6.4I	ELU5	0.002	-0.009	-0.173	0.006	-0.005	0.000
6.4I	ELS3	0.001	-0.007	-0.149	0.005	-0.003	0.000
6.5D	ELU5	-0.001	-0.009	-0.183	0.006	0.004	0.000
6.5D	ELS3	0.000	-0.008	-0.147	0.005	0.003	0.000
6.5I	ELU5	0.002	-0.009	-0.167	0.006	-0.005	0.000
6.5I	ELS3	0.001	-0.007	-0.146	0.005	-0.003	0.000
6.6D	ELU5	0.000	-0.011	-0.177	0.005	0.004	0.000
6.6D	ELS3	0.000	-0.009	-0.143	0.004	0.003	0.000
6.6I	ELU5	0.001	-0.010	-0.159	0.005	-0.005	0.000
6.6I	ELS3	0.001	-0.008	-0.141	0.004	-0.003	0.000
6.7D	ELU5	0.000	-0.012	-0.170	0.004	0.003	0.000
6.7D	ELS3	0.000	-0.010	-0.138	0.003	0.002	0.000
6.7I	ELU5	0.000	-0.010	-0.149	0.004	-0.005	0.000
6.7I	ELS3	0.000	-0.009	-0.136	0.003	-0.002	0.000
7.1D	ELU5	0.000	-0.011	-0.216	0.004	0.001	0.000
7.1D	ELS3	0.000	-0.009	-0.174	0.003	0.001	0.000
7.1I	ELU5	0.001	-0.011	-0.212	0.004	-0.003	0.000
7.1I	ELS3	0.001	-0.009	-0.174	0.003	-0.001	0.000
7.2D	ELU5	-0.001	-0.011	-0.212	0.003	0.003	0.000
7.2D	ELS3	0.000	-0.009	-0.170	0.003	0.002	0.000
7.2I	ELU5	0.002	-0.011	-0.204	0.003	-0.004	0.000
7.2I	ELS3	0.001	-0.009	-0.169	0.003	-0.003	0.000
7.3D	ELU5	-0.001	-0.011	-0.204	0.003	0.004	0.000
7.3D	ELS3	-0.001	-0.009	-0.164	0.002	0.003	0.000
7.3I	ELU5	0.003	-0.010	-0.192	0.003	-0.006	0.000
7.3I	ELS3	0.002	-0.009	-0.163	0.002	-0.003	0.000



7.4D	ELU5	-0.001	-0.011	-0.196	0.002	0.005	0.000
7.4D	ELS3	-0.001	-0.009	-0.157	0.002	0.003	0.000
7.4I	ELU5	0.003	-0.010	-0.182	0.002	-0.006	0.000
7.4I	ELS3	0.002	-0.009	-0.156	0.002	-0.004	0.000
7.5D	ELU5	-0.001	-0.011	-0.192	0.002	0.005	0.000
7.5D	ELS3	-0.001	-0.009	-0.154	0.002	0.003	0.000
7.5I	ELU5	0.002	-0.010	-0.176	0.002	-0.006	0.000
7.5I	ELS3	0.002	-0.009	-0.153	0.002	-0.004	0.000
7.6D	ELU5	0.000	-0.012	-0.184	0.002	0.004	0.000
7.6D	ELS3	0.000	-0.010	-0.149	0.001	0.003	0.000
7.6I	ELU5	0.002	-0.011	-0.167	0.002	-0.006	0.000
7.6I	ELS3	0.001	-0.009	-0.147	0.001	-0.003	0.000
7.7D	ELU5	0.000	-0.012	-0.176	0.001	0.004	0.000
7.7D	ELS3	0.001	-0.010	-0.143	0.001	0.003	0.000
7.7I	ELU5	0.000	-0.011	-0.155	0.001	-0.005	0.000
7.7I	ELS3	0.000	-0.009	-0.141	0.001	-0.003	0.000
8.1D	ELU5	0.000	-0.013	-0.222	0.001	0.001	0.000
8.1D	ELS3	0.000	-0.011	-0.178	0.001	0.001	0.000
8.1I	ELU5	0.002	-0.012	-0.218	0.001	-0.003	0.000
8.1I	ELS3	0.001	-0.010	-0.178	0.001	-0.001	0.000
8.2D	ELU5	-0.001	-0.012	-0.217	0.002	0.003	0.000
8.2D	ELS3	-0.001	-0.010	-0.174	0.001	0.003	0.000
8.2I	ELU5	0.002	-0.012	-0.209	0.002	-0.005	0.000
8.2I	ELS3	0.002	-0.010	-0.173	0.001	-0.003	0.000
8.3D	ELU5	-0.001	-0.012	-0.208	0.001	0.005	0.000
8.3D	ELS3	-0.001	-0.010	-0.166	0.001	0.004	0.000
8.3I	ELU5	0.003	-0.011	-0.196	0.002	-0.006	0.000
8.3I	ELS3	0.002	-0.010	-0.165	0.001	-0.004	0.000
8.4D	ELU5	-0.002	-0.012	-0.199	0.001	0.005	0.000
8.4D	ELS3	-0.001	-0.010	-0.159	0.001	0.004	0.000
8.4I	ELU5	0.003	-0.011	-0.185	0.001	-0.007	0.000
8.4I	ELS3	0.002	-0.010	-0.158	0.001	-0.004	0.000
8.5D	ELU5	-0.001	-0.012	-0.194	0.001	0.005	0.000
8.5D	ELS3	-0.001	-0.010	-0.155	0.001	0.004	0.000
8.5I	ELU5	0.003	-0.011	-0.179	0.001	-0.007	0.000
8.5I	ELS3	0.002	-0.010	-0.154	0.001	-0.004	0.000
8.6D	ELU5	-0.001	-0.012	-0.186	0.001	0.005	0.000
8.6D	ELS3	0.000	-0.010	-0.150	0.000	0.003	0.000

8.6I	ELU5	0.002	-0.011	-0.168	0.001	-0.006	0.000
8.6I	ELS3	0.001	-0.010	-0.148	0.000	-0.004	0.000
8.7D	ELU5	0.000	-0.012	-0.176	0.000	0.004	0.000
8.7D	ELS3	0.001	-0.010	-0.143	0.000	0.003	0.000
8.7I	ELU5	0.001	-0.011	-0.156	0.000	-0.006	0.000
8.7I	ELS3	0.000	-0.010	-0.142	0.000	-0.003	0.000
9.1D	ELU5	0.000	-0.013	-0.225	0.001	0.001	0.000
9.1D	ELS3	0.000	-0.011	-0.179	0.000	0.001	0.000
9.1I	ELU5	0.002	-0.013	-0.220	0.001	-0.003	0.000
9.1I	ELS3	0.001	-0.011	-0.179	0.000	-0.002	0.000
9.2D	ELU5	-0.001	-0.013	-0.220	0.000	0.003	0.000
9.2D	ELS3	0.000	-0.011	-0.175	0.000	0.003	0.000
9.2I	ELU5	0.002	-0.013	-0.212	0.000	-0.005	0.000
9.2I	ELS3	0.002	-0.011	-0.174	0.000	-0.003	0.000
9.3D	ELU5	-0.002	-0.013	-0.210	0.000	0.005	0.000
9.3D	ELS3	-0.001	-0.011	-0.167	0.000	0.004	0.000
9.3I	ELU5	0.003	-0.012	-0.199	0.000	-0.006	0.000
9.3I	ELS3	0.002	-0.011	-0.166	0.000	-0.004	0.000
9.4D	ELU5	-0.002	-0.013	-0.201	0.000	0.006	0.000
9.4D	ELS3	-0.001	-0.011	-0.160	0.000	0.004	0.000
9.4I	ELU5	0.003	-0.012	-0.187	0.000	-0.007	0.000
9.4I	ELS3	0.002	-0.010	-0.159	0.000	-0.004	0.000
9.5D	ELU5	-0.002	-0.013	-0.195	0.000	0.006	0.000
9.5D	ELS3	-0.001	-0.011	-0.156	0.000	0.004	0.000
9.5I	ELU5	0.003	-0.012	-0.180	0.000	-0.007	0.000
9.5I	ELS3	0.002	-0.010	-0.155	0.000	-0.004	0.000
9.6D	ELU5	-0.001	-0.013	-0.186	0.000	0.005	0.000
9.6D	ELS3	0.000	-0.011	-0.150	0.000	0.004	0.000
9.6I	ELU5	0.002	-0.012	-0.170	0.000	-0.007	0.000
9.6I	ELS3	0.001	-0.010	-0.149	0.000	-0.004	0.000
9.7D	ELU5	0.000	-0.013	-0.176	-0.001	0.005	0.000
9.7D	ELS3	0.000	-0.011	-0.143	-0.001	0.004	0.000
9.7I	ELU5	0.001	-0.012	-0.156	-0.001	-0.007	0.000
9.7I	ELS3	0.001	-0.010	-0.141	-0.001	-0.004	0.000
A18D	ELU5	-0.002	0.002	-0.067	-0.008	0.001	0.000
A18D	ELS3	0.000	0.003	-0.057	-0.006	0.000	0.000
A18I	ELU5	-0.002	0.003	-0.068	-0.008	0.001	0.000
A18I	ELS3	0.000	0.003	-0.057	-0.006	0.000	0.000





A19D	ELU5	-0.002	-0.003	-0.050	-0.007	0.001	0.000
A19D	ELS3	0.000	-0.001	-0.043	-0.005	0.000	0.000
A19I	ELU5	-0.002	-0.002	-0.052	-0.007	0.001	0.000
A19I	ELS3	0.000	-0.001	-0.044	-0.005	0.000	0.000
A20D	ELU5	-0.002	-0.008	-0.037	-0.006	0.001	0.000
A20D	ELS3	0.000	-0.005	-0.032	-0.005	0.000	0.000
A20I	ELU5	-0.002	-0.006	-0.040	-0.006	0.001	0.000
A20I	ELS3	0.000	-0.005	-0.034	-0.005	0.000	0.000
A21D	ELU5	-0.002	-0.013	-0.025	-0.005	0.001	0.000
A21D	ELS3	0.000	-0.009	-0.023	-0.004	0.000	0.000
A21I	ELU5	-0.002	-0.011	-0.029	-0.005	0.001	0.000
A21I	ELS3	0.000	-0.008	-0.024	-0.004	0.000	0.000
A22D	ELU5	-0.002	-0.017	-0.016	-0.003	0.000	0.000
A22D	ELS3	0.000	-0.012	-0.015	-0.003	0.000	0.000
A22I	ELU5	-0.002	-0.014	-0.021	-0.004	0.001	0.000
A22I	ELS3	0.000	-0.012	-0.017	-0.003	0.000	0.000
A23D	ELU5	-0.001	-0.020	-0.010	-0.002	0.000	0.001
A23D	ELS3	0.000	-0.015	-0.010	-0.002	0.000	0.000
A23I	ELU5	-0.002	-0.018	-0.014	-0.003	0.000	0.000
A23I	ELS3	-0.001	-0.015	-0.012	-0.002	0.000	0.000
A24D	ELU5	0.000	-0.022	-0.006	-0.001	0.000	0.001
A24D	ELS3	0.001	-0.017	-0.006	-0.001	0.000	0.000
A24I	ELU5	-0.003	-0.021	-0.009	-0.002	0.000	0.000
A24I	ELS3	-0.001	-0.017	-0.007	-0.002	0.000	0.000
A25D	ELU5	0.001	-0.024	-0.003	-0.001	0.000	0.001
A25D	ELS3	0.001	-0.019	-0.003	-0.001	0.000	0.001
A25I	ELU5	-0.003	-0.023	-0.005	-0.002	0.000	0.000
A25I	ELS3	-0.002	-0.019	-0.004	-0.002	0.000	0.000
A26D	ELU5	0.002	-0.025	-0.002	0.000	0.001	0.001
A26D	ELS3	0.002	-0.019	-0.002	0.000	0.001	0.000
A26I	ELU5	-0.002	-0.024	-0.002	0.000	-0.001	0.001
A26I	ELS3	-0.001	-0.020	-0.001	0.000	-0.001	0.001
A27D	ELU5	0.001	-0.025	-0.001	0.000	0.002	0.000
A27D	ELS3	0.001	-0.020	0.000	0.000	0.001	0.000
A27I	ELU5	0.002	-0.023	-0.001	0.000	-0.002	0.001
A27I	ELS3	0.002	-0.020	0.000	0.000	-0.001	0.001
A28D	ELU5	0.000	-0.024	0.000	0.000	0.002	0.000
A28D	ELS3	0.000	-0.019	0.000	0.000	0.002	0.000

A28I	ELU5	0.004	-0.023	0.000	0.000	-0.002	0.001
A28I	ELS3	0.003	-0.019	0.000	0.000	-0.001	0.001
C1DA	ELU5	-0.009	0.033	-0.090	0.019	0.000	0.000
C1DA	ELS3	0.000	0.028	-0.074	0.016	0.000	0.000
C1IA	ELU5	-0.009	0.033	-0.091	0.019	0.000	0.000
C1IA	ELS3	0.000	0.028	-0.074	0.016	0.000	0.000
C2DA	ELU5	-0.008	0.023	-0.130	0.012	0.000	0.000
C2DA	ELS3	0.000	0.020	-0.107	0.010	0.000	0.000
C2IA	ELU5	-0.008	0.024	-0.131	0.012	0.000	0.000
C2IA	ELS3	0.000	0.020	-0.107	0.010	0.000	0.000
C3DA	ELU5	-0.007	0.015	-0.149	0.003	0.000	0.000
C3DA	ELS3	0.000	0.014	-0.122	0.003	0.000	0.000
C3IA	ELU5	-0.007	0.016	-0.150	0.003	0.000	0.000
C3IA	ELS3	0.000	0.014	-0.123	0.003	0.000	0.000
C4DA	ELU5	-0.006	0.010	-0.147	-0.004	0.000	0.000
C4DA	ELS3	0.000	0.010	-0.121	-0.003	0.000	0.000
C4IA	ELU5	-0.006	0.011	-0.148	-0.004	0.000	0.000
C4IA	ELS3	0.000	0.010	-0.122	-0.003	0.000	0.000
C5DA	ELU5	-0.005	0.006	-0.130	-0.008	0.000	0.000
C5DA	ELS3	0.000	0.006	-0.107	-0.007	0.000	0.000
C5IA	ELU5	-0.005	0.007	-0.131	-0.008	0.000	0.000
C5IA	ELS3	0.000	0.006	-0.108	-0.007	0.000	0.000
C6AD	ELU5	-0.004	0.002	-0.106	-0.009	0.001	0.000
C6AD	ELS3	0.000	0.003	-0.088	-0.008	0.000	0.000
C6IA	ELU5	-0.004	0.003	-0.108	-0.009	0.001	0.000
C6IA	ELS3	0.000	0.003	-0.089	-0.008	0.000	0.000
H1.0	ELU5	0.000	0.000	0.000	0.000	0.000	0.000
H1.0	ELS3	0.000	0.000	0.000	0.000	0.000	0.000
H10D	ELU5	0.001	-0.013	-0.196	-0.001	0.006	0.000
H10D	ELS3	0.001	-0.011	-0.156	-0.001	0.004	0.000
H10I	ELU5	0.000	-0.012	-0.182	-0.001	-0.007	0.000
H10I	ELS3	0.000	-0.010	-0.155	-0.001	-0.004	0.000
H11D	ELU5	0.001	-0.014	-0.191	-0.001	0.007	0.000
H11D	ELS3	0.001	-0.011	-0.151	-0.001	0.004	0.000
H11I	ELU5	0.000	-0.013	-0.178	-0.001	-0.008	0.000
H11I	ELS3	0.000	-0.011	-0.151	-0.001	-0.005	0.000
H12D	ELU5	0.001	-0.014	-0.190	-0.001	0.007	0.000
H12D	ELS3	0.001	-0.011	-0.149	-0.001	0.004	0.000



H12I	ELU5	0.001	-0.013	-0.177	-0.001	-0.008	0.000
H12I	ELS3	0.001	-0.011	-0.149	-0.001	-0.004	0.000
H13D	ELU5	0.001	-0.014	-0.187	-0.002	0.008	0.000
H13D	ELS3	0.001	-0.012	-0.146	-0.002	0.004	0.000
H13I	ELU5	0.001	-0.013	-0.174	-0.002	-0.009	0.000
H13I	ELS3	0.001	-0.011	-0.145	-0.002	-0.004	0.000
H14D	ELU5	0.001	-0.015	-0.182	-0.002	0.009	0.000
H14D	ELS3	0.001	-0.012	-0.142	-0.001	0.005	0.000
H14I	ELU5	0.001	-0.014	-0.169	-0.002	-0.009	0.000
H14I	ELS3	0.001	-0.011	-0.141	-0.001	-0.005	0.000
H15D	ELU5	0.001	-0.015	-0.179	-0.002	0.008	0.000
H15D	ELS3	0.001	-0.012	-0.139	-0.001	0.004	0.000
H15I	ELU5	0.001	-0.014	-0.166	-0.002	-0.009	0.000
H15I	ELS3	0.001	-0.012	-0.139	-0.001	-0.004	0.000
H16D	ELU5	0.001	-0.015	-0.173	-0.003	0.007	0.000
H16D	ELS3	0.001	-0.013	-0.135	-0.002	0.004	0.000
H16I	ELU5	0.001	-0.014	-0.161	-0.003	-0.008	0.000
H16I	ELS3	0.001	-0.012	-0.135	-0.002	-0.004	0.000
H17D	ELU5	0.001	-0.016	-0.162	-0.005	0.007	0.000
H17D	ELS3	0.001	-0.013	-0.128	-0.003	0.004	0.000
H17I	ELU5	0.001	-0.015	-0.151	-0.004	-0.007	0.000
H17I	ELS3	0.001	-0.012	-0.128	-0.003	-0.004	0.000
H18D	ELU5	0.001	-0.016	-0.150	-0.006	0.006	0.000
H18D	ELS3	0.001	-0.013	-0.120	-0.004	0.004	0.000
H18I	ELU5	0.001	-0.015	-0.140	-0.005	-0.007	0.000
H18I	ELS3	0.001	-0.013	-0.119	-0.004	-0.004	0.000
H19D	ELU5	0.001	-0.017	-0.134	-0.008	0.006	0.000
H19D	ELS3	0.001	-0.013	-0.107	-0.006	0.004	0.000
H19I	ELU5	0.001	-0.016	-0.125	-0.008	-0.006	0.000
H19I	ELS3	0.001	-0.013	-0.107	-0.006	-0.004	0.000
H2.0	ELU5	0.000	-0.006	-0.041	0.030	0.000	0.000
H2.0	ELS3	0.000	-0.005	-0.033	0.024	0.000	0.000
H20D	ELU5	0.002	-0.017	-0.110	-0.011	0.005	0.000
H20D	ELS3	0.001	-0.014	-0.088	-0.008	0.004	0.000
H20I	ELU5	0.002	-0.016	-0.102	-0.010	-0.006	0.000
H20I	ELS3	0.001	-0.013	-0.088	-0.008	-0.004	0.000
H21D	ELU5	0.002	-0.018	-0.080	-0.012	0.005	0.000
H21D	ELS3	0.001	-0.014	-0.065	-0.010	0.004	0.000

H21I	ELU5	0.002	-0.017	-0.075	-0.012	-0.005	0.000
H21I	ELS3	0.001	-0.014	-0.064	-0.010	-0.004	0.000
H22D	ELU5	0.002	-0.019	-0.047	-0.013	0.005	0.000
H22D	ELS3	0.001	-0.015	-0.038	-0.010	0.003	0.000
H22I	ELU5	0.002	-0.017	-0.044	-0.012	-0.005	0.000
H22I	ELS3	0.002	-0.015	-0.038	-0.010	-0.003	0.000
H23D	ELU5	0.001	-0.020	-0.016	-0.010	0.004	0.000
H23D	ELS3	0.001	-0.016	-0.013	-0.008	0.003	0.000
H23I	ELU5	0.002	-0.019	-0.015	-0.009	-0.004	0.000
H23I	ELS3	0.002	-0.016	-0.013	-0.008	-0.003	0.000
H24D	ELU5	0.000	-0.024	0.001	0.000	0.002	0.000
H24D	ELS3	0.000	-0.019	0.001	0.000	0.002	0.000
H24I	ELU5	0.004	-0.023	0.001	0.000	-0.002	0.001
H24I	ELS3	0.003	-0.019	0.000	0.000	-0.001	0.001
H3.0	ELU5	0.000	-0.009	-0.103	0.018	-0.001	0.000
H3.0	ELS3	0.000	-0.007	-0.083	0.015	0.000	0.000
H4.0	ELU5	0.000	-0.011	-0.148	0.018	-0.001	0.000
H4.0	ELS3	0.000	-0.009	-0.121	0.014	0.000	0.000
H5.0	ELU5	0.000	-0.012	-0.182	0.009	-0.001	0.000
H5.0	ELS3	0.000	-0.010	-0.148	0.008	0.000	0.000
H6.0	ELU5	0.000	-0.013	-0.203	0.008	-0.001	0.000
H6.0	ELS3	0.000	-0.011	-0.165	0.006	0.000	0.000
H7.0	ELU5	0.000	-0.013	-0.216	0.003	-0.001	0.000
H7.0	ELS3	0.000	-0.011	-0.175	0.002	0.000	0.000
H8.0	ELU5	0.000	-0.013	-0.222	0.002	-0.001	0.000
H8.0	ELS3	0.000	-0.011	-0.179	0.002	0.000	0.000
H9.0	ELU5	0.000	-0.013	-0.225	0.000	-0.001	0.000
H9.0	ELS3	0.001	-0.011	-0.181	-0.001	0.000	0.000
10.1D	ELU5	0.000	-0.014	-0.224	-0.001	0.001	0.000
10.1D	ELS3	0.000	-0.012	-0.178	-0.001	0.001	0.000
10.1I	ELU5	0.002	-0.014	-0.220	-0.001	-0.003	0.000
10.1I	ELS3	0.001	-0.012	-0.178	-0.001	-0.002	0.000
10.2D	ELU5	-0.001	-0.014	-0.219	0.000	0.004	0.000
10.2D	ELS3	-0.001	-0.012	-0.173	-0.001	0.003	0.000
10.2I	ELU5	0.003	-0.013	-0.211	0.000	-0.005	0.000
10.2I	ELS3	0.002	-0.011	-0.172	-0.001	-0.003	0.000
10.3D	ELU5	-0.002	-0.014	-0.209	-0.001	0.005	0.000
10.3D	ELS3	-0.001	-0.012	-0.165	-0.001	0.004	0.000



10.3I	ELU5	0.003	-0.013	-0.198	-0.001	-0.007	0.000
10.3I	ELS3	0.002	-0.011	-0.164	-0.001	-0.004	0.000
10.4D	ELU5	-0.002	-0.014	-0.199	-0.001	0.006	0.000
10.4D	ELS3	-0.001	-0.011	-0.158	-0.001	0.004	0.000
10.4I	ELU5	0.004	-0.013	-0.186	-0.001	-0.007	0.000
10.4I	ELS3	0.002	-0.011	-0.157	-0.001	-0.004	0.000
10.5D	ELU5	-0.002	-0.014	-0.193	-0.001	0.006	0.000
10.5D	ELS3	-0.001	-0.011	-0.154	-0.001	0.004	0.000
10.5I	ELU5	0.003	-0.013	-0.178	-0.001	-0.007	0.000
10.5I	ELS3	0.002	-0.011	-0.153	-0.001	-0.004	0.000
10.6D	ELU5	-0.001	-0.014	-0.183	-0.002	0.006	0.000
10.6D	ELS3	0.000	-0.011	-0.147	-0.002	0.004	0.000
10.6I	ELU5	0.002	-0.013	-0.167	-0.002	-0.007	0.000
10.6I	ELS3	0.002	-0.011	-0.146	-0.002	-0.004	0.000
10.7D	ELU5	0.000	-0.013	-0.171	-0.002	0.006	0.000
10.7D	ELS3	0.000	-0.011	-0.139	-0.002	0.004	0.000
10.7I	ELU5	0.001	-0.012	-0.152	-0.002	-0.007	0.000
10.7I	ELS3	0.001	-0.010	-0.138	-0.002	-0.004	0.000
11.1D	ELU5	0.000	-0.014	-0.223	0.000	0.001	0.000
11.1D	ELS3	0.000	-0.012	-0.175	-0.001	0.002	0.000
11.1I	ELU5	0.002	-0.013	-0.219	0.000	-0.003	0.000
11.1I	ELS3	0.001	-0.012	-0.174	-0.001	-0.002	0.000
11.2D	ELU5	-0.001	-0.014	-0.217	0.000	0.004	0.000
11.2D	ELS3	-0.001	-0.012	-0.170	-0.001	0.003	0.000
11.2I	ELU5	0.003	-0.013	-0.209	-0.001	-0.005	0.000
11.2I	ELS3	0.002	-0.012	-0.169	-0.001	-0.003	0.000
11.3D	ELU5	-0.002	-0.014	-0.206	-0.001	0.006	0.000
11.3D	ELS3	-0.001	-0.012	-0.161	-0.001	0.004	0.000
11.3I	ELU5	0.004	-0.013	-0.195	-0.001	-0.007	0.000
11.3I	ELS3	0.002	-0.011	-0.161	-0.001	-0.004	0.000
11.4D	ELU5	-0.002	-0.014	-0.194	-0.001	0.007	0.000
11.4D	ELS3	-0.001	-0.012	-0.154	-0.001	0.004	0.000
11.4I	ELU5	0.004	-0.013	-0.182	-0.001	-0.008	0.000
11.4I	ELS3	0.003	-0.011	-0.153	-0.001	-0.005	0.000
11.5D	ELU5	-0.002	-0.014	-0.188	-0.001	0.007	0.000
11.5D	ELS3	-0.001	-0.012	-0.149	-0.001	0.004	0.000
11.5I	ELU5	0.004	-0.013	-0.174	-0.001	-0.008	0.000
11.5I	ELS3	0.002	-0.011	-0.148	-0.001	-0.005	0.000

11.6D	ELU5	-0.001	-0.014	-0.177	-0.002	0.006	0.000
11.6D	ELS3	0.000	-0.011	-0.143	-0.001	0.004	0.000
11.6I	ELU5	0.003	-0.013	-0.162	-0.001	-0.007	0.000
11.6I	ELS3	0.002	-0.011	-0.142	-0.001	-0.004	0.000
11.7D	ELU5	0.000	-0.014	-0.165	-0.002	0.006	0.000
11.7D	ELS3	0.001	-0.011	-0.135	-0.001	0.004	0.000
11.7I	ELU5	0.001	-0.012	-0.147	-0.002	-0.007	0.000
11.7I	ELS3	0.001	-0.010	-0.134	-0.001	-0.004	0.000
12.1D	ELU5	0.000	-0.014	-0.224	0.000	0.002	0.000
12.1D	ELS3	0.000	-0.012	-0.172	-0.001	0.001	0.000
12.1I	ELU5	0.002	-0.013	-0.220	0.000	-0.003	0.000
12.1I	ELS3	0.001	-0.012	-0.172	-0.001	-0.002	0.000
12.2D	ELU5	-0.001	-0.014	-0.217	0.000	0.004	0.000
12.2D	ELS3	0.000	-0.012	-0.167	-0.001	0.003	0.000
12.2I	ELU5	0.003	-0.013	-0.210	0.000	-0.006	0.000
12.2I	ELS3	0.002	-0.012	-0.167	-0.001	-0.003	0.000
12.3D	ELU5	-0.002	-0.014	-0.205	0.000	0.006	0.000
12.3D	ELS3	-0.001	-0.012	-0.159	-0.001	0.004	0.000
12.3I	ELU5	0.004	-0.013	-0.194	0.000	-0.008	0.000
12.3I	ELS3	0.002	-0.012	-0.158	-0.001	-0.004	0.000
12.4D	ELU5	-0.002	-0.014	-0.193	-0.001	0.007	0.000
12.4D	ELS3	-0.001	-0.012	-0.152	-0.001	0.004	0.000
12.4I	ELU5	0.004	-0.014	-0.181	-0.001	-0.008	0.000
12.4I	ELS3	0.003	-0.011	-0.151	-0.001	-0.004	0.000
12.5D	ELU5	-0.002	-0.014	-0.186	-0.001	0.007	0.000
12.5D	ELS3	-0.001	-0.012	-0.147	-0.001	0.004	0.000
12.5I	ELU5	0.004	-0.013	-0.173	-0.001	-0.008	0.000
12.5I	ELS3	0.002	-0.011	-0.146	-0.001	-0.004	0.000
12.6D	ELU5	-0.001	-0.014	-0.175	-0.001	0.007	0.000
12.6D	ELS3	0.000	-0.012	-0.140	-0.001	0.004	0.000
12.6I	ELU5	0.003	-0.013	-0.160	-0.001	-0.008	0.000
12.6I	ELS3	0.002	-0.011	-0.140	-0.001	-0.004	0.000
12.7D	ELU5	0.000	-0.014	-0.161	-0.002	0.007	0.000
12.7D	ELS3	0.001	-0.011	-0.132	-0.001	0.004	0.000
12.7I	ELU5	0.001	-0.013	-0.143	-0.002	-0.008	0.000
12.7I	ELS3	0.001	-0.011	-0.131	-0.001	-0.004	0.000
13.1D	ELU5	0.000	-0.013	-0.227	0.002	0.002	0.000
13.1D	ELS3	0.000	-0.012	-0.169	-0.001	0.002	0.000



13.1I	ELU5	0.003	-0.013	-0.222	0.001	-0.004	0.000
13.1I	ELS3	0.001	-0.012	-0.169	-0.001	-0.002	0.000
13.2D	ELU5	-0.001	-0.014	-0.219	0.001	0.005	0.000
13.2D	ELS3	0.000	-0.012	-0.164	-0.001	0.003	0.000
13.2I	ELU5	0.004	-0.014	-0.210	0.000	-0.007	0.000
13.2I	ELS3	0.002	-0.012	-0.164	-0.001	-0.003	0.000
13.3D	ELU5	-0.002	-0.014	-0.205	0.000	0.007	0.000
13.3D	ELS3	-0.001	-0.012	-0.156	-0.001	0.004	0.000
13.3I	ELU5	0.004	-0.014	-0.193	-0.001	-0.008	0.000
13.3I	ELS3	0.003	-0.012	-0.155	-0.001	-0.004	0.000
13.4D	ELU5	-0.003	-0.015	-0.191	-0.002	0.008	0.000
13.4D	ELS3	-0.001	-0.012	-0.148	-0.002	0.004	0.000
13.4I	ELU5	0.005	-0.014	-0.178	-0.002	-0.009	0.000
13.4I	ELS3	0.003	-0.012	-0.148	-0.002	-0.004	0.000
13.5D	ELU5	-0.002	-0.015	-0.183	-0.002	0.008	0.000
13.5D	ELS3	-0.001	-0.012	-0.144	-0.002	0.004	0.000
13.5I	ELU5	0.004	-0.014	-0.169	-0.002	-0.009	0.000
13.5I	ELS3	0.003	-0.012	-0.143	-0.002	-0.004	0.000
13.6D	ELU5	-0.001	-0.015	-0.171	-0.002	0.008	0.000
13.6D	ELS3	0.000	-0.012	-0.137	-0.002	0.004	0.000
13.6I	ELU5	0.003	-0.014	-0.156	-0.002	-0.009	0.000
13.6I	ELS3	0.002	-0.012	-0.136	-0.002	-0.004	0.000
13.7D	ELU5	0.000	-0.015	-0.155	-0.003	0.008	0.000
13.7D	ELS3	0.001	-0.012	-0.129	-0.002	0.004	0.000
13.7I	ELU5	0.002	-0.013	-0.138	-0.002	-0.008	0.000
13.7I	ELS3	0.001	-0.011	-0.128	-0.002	-0.004	0.000
14.1D	ELU5	0.000	-0.015	-0.228	-0.002	0.002	0.000
14.1D	ELS3	0.000	-0.012	-0.165	-0.002	0.002	0.000
14.1I	ELU5	0.003	-0.015	-0.221	-0.002	-0.005	0.000
14.1I	ELS3	0.002	-0.012	-0.165	-0.002	-0.002	0.000
14.2D	ELU5	-0.002	-0.015	-0.219	-0.002	0.006	0.000
14.2D	ELS3	0.000	-0.012	-0.160	-0.001	0.003	0.000
14.2I	ELU5	0.004	-0.015	-0.208	-0.002	-0.007	0.000
14.2I	ELS3	0.002	-0.012	-0.160	-0.001	-0.003	0.000
14.3D	ELU5	-0.003	-0.015	-0.202	-0.002	0.008	0.000
14.3D	ELS3	-0.001	-0.013	-0.152	-0.001	0.004	0.000
14.3I	ELU5	0.005	-0.015	-0.189	-0.002	-0.009	0.000
14.3I	ELS3	0.003	-0.012	-0.151	-0.001	-0.004	0.000

14.4D	ELU5	-0.003	-0.015	-0.186	-0.002	0.009	0.000
14.4D	ELS3	-0.001	-0.013	-0.144	-0.001	0.005	0.000
14.4I	ELU5	0.005	-0.014	-0.173	-0.002	-0.009	0.000
14.4I	ELS3	0.003	-0.012	-0.143	-0.001	-0.005	0.000
14.5D	ELU5	-0.002	-0.015	-0.178	-0.002	0.009	0.000
14.5D	ELS3	-0.001	-0.013	-0.139	-0.001	0.005	0.000
14.5I	ELU5	0.005	-0.014	-0.164	-0.002	-0.009	0.000
14.5I	ELS3	0.003	-0.012	-0.139	-0.001	-0.005	0.000
14.6D	ELU5	-0.001	-0.015	-0.165	-0.002	0.008	0.000
14.6D	ELS3	0.000	-0.012	-0.133	-0.001	0.004	0.000
14.6I	ELU5	0.003	-0.014	-0.150	-0.002	-0.009	0.000
14.6I	ELS3	0.002	-0.012	-0.132	-0.001	-0.004	0.000
14.7D	ELU5	0.000	-0.015	-0.148	-0.002	0.008	0.000
14.7D	ELS3	0.001	-0.012	-0.125	-0.001	0.004	0.000
14.7I	ELU5	0.002	-0.014	-0.133	-0.001	-0.008	0.000
14.7I	ELS3	0.001	-0.011	-0.124	-0.001	-0.004	0.000
15.1D	ELU5	0.000	-0.017	-0.219	-0.005	0.002	0.000
15.1D	ELS3	0.000	-0.013	-0.162	-0.002	0.001	0.000
15.1I	ELU5	0.003	-0.016	-0.214	-0.004	-0.004	0.000
15.1I	ELS3	0.002	-0.012	-0.162	-0.002	-0.002	0.000
15.2D	ELU5	-0.001	-0.017	-0.211	-0.005	0.005	0.000
15.2D	ELS3	0.000	-0.013	-0.157	-0.002	0.003	0.000
15.2I	ELU5	0.004	-0.016	-0.202	-0.004	-0.007	0.000
15.2I	ELS3	0.002	-0.012	-0.157	-0.002	-0.003	0.000
15.3D	ELU5	-0.002	-0.016	-0.196	-0.003	0.007	0.000
15.3D	ELS3	-0.001	-0.013	-0.149	-0.001	0.004	0.000
15.3I	ELU5	0.005	-0.015	-0.185	-0.002	-0.008	0.000
15.3I	ELS3	0.003	-0.012	-0.149	-0.001	-0.004	0.000
15.4D	ELU5	-0.002	-0.016	-0.183	-0.002	0.008	0.000
15.4D	ELS3	-0.001	-0.013	-0.142	-0.001	0.004	0.000
15.4I	ELU5	0.005	-0.015	-0.170	-0.002	-0.009	0.000
15.4I	ELS3	0.003	-0.012	-0.141	-0.001	-0.004	0.000
15.5D	ELU5	-0.002	-0.016	-0.175	-0.002	0.008	0.000
15.5D	ELS3	-0.001	-0.013	-0.137	-0.001	0.004	0.000
15.5I	ELU5	0.005	-0.015	-0.162	-0.002	-0.009	0.000
15.5I	ELS3	0.003	-0.012	-0.137	-0.001	-0.004	0.000
15.6D	ELU5	-0.001	-0.015	-0.162	-0.001	0.008	0.000
15.6D	ELS3	0.000	-0.013	-0.131	-0.001	0.004	0.000





15.6I	ELU5	0.003	-0.014	-0.148	-0.001	-0.008	0.000
15.6I	ELS3	0.002	-0.012	-0.130	-0.001	-0.004	0.000
15.7D	ELU5	0.000	-0.015	-0.147	-0.001	0.007	0.000
15.7D	ELS3	0.001	-0.012	-0.123	-0.001	0.004	0.000
15.7I	ELU5	0.002	-0.014	-0.131	-0.001	-0.008	0.000
15.7I	ELS3	0.001	-0.012	-0.122	-0.001	-0.004	0.000
16.1D	ELU5	0.000	-0.017	-0.206	-0.005	0.002	0.000
16.1D	ELS3	0.000	-0.013	-0.158	-0.002	0.001	0.000
16.1I	ELU5	0.002	-0.017	-0.202	-0.005	-0.003	0.000
16.1I	ELS3	0.002	-0.013	-0.157	-0.002	-0.002	0.000
16.2D	ELU5	-0.001	-0.017	-0.200	-0.004	0.004	0.000
16.2D	ELS3	0.000	-0.013	-0.153	-0.002	0.003	0.000
16.2I	ELU5	0.003	-0.016	-0.192	-0.004	-0.006	0.000
16.2I	ELS3	0.002	-0.013	-0.152	-0.002	-0.003	0.000
16.3D	ELU5	-0.002	-0.017	-0.188	-0.004	0.006	0.000
16.3D	ELS3	-0.001	-0.013	-0.145	-0.002	0.004	0.000
16.3I	ELU5	0.004	-0.016	-0.178	-0.004	-0.007	0.000
16.3I	ELS3	0.003	-0.013	-0.144	-0.002	-0.004	0.000
16.4D	ELU5	-0.002	-0.017	-0.176	-0.003	0.007	0.000
16.4D	ELS3	-0.001	-0.014	-0.137	-0.002	0.004	0.000
16.4I	ELU5	0.005	-0.016	-0.165	-0.003	-0.008	0.000
16.4I	ELS3	0.003	-0.013	-0.137	-0.002	-0.004	0.000
16.5D	ELU5	-0.002	-0.017	-0.169	-0.003	0.007	0.000
16.5D	ELS3	-0.001	-0.013	-0.133	-0.002	0.004	0.000
16.5I	ELU5	0.004	-0.016	-0.157	-0.003	-0.008	0.000
16.5I	ELS3	0.003	-0.013	-0.133	-0.002	-0.004	0.000
16.6D	ELU5	-0.001	-0.016	-0.158	-0.003	0.007	0.000
16.6D	ELS3	0.000	-0.013	-0.127	-0.002	0.004	0.000
16.6I	ELU5	0.003	-0.015	-0.144	-0.003	-0.008	0.000
16.6I	ELS3	0.002	-0.013	-0.126	-0.002	-0.004	0.000
16.7D	ELU5	0.001	-0.016	-0.144	-0.002	0.007	0.000
16.7D	ELS3	0.001	-0.013	-0.119	-0.002	0.004	0.000
16.7I	ELU5	0.002	-0.014	-0.128	-0.002	-0.008	0.000
16.7I	ELS3	0.001	-0.012	-0.118	-0.002	-0.004	0.000
17.1D	ELU5	0.001	-0.017	-0.193	-0.005	0.001	0.000
17.1D	ELS3	0.001	-0.014	-0.150	-0.003	0.001	0.000
17.1I	ELU5	0.002	-0.017	-0.190	-0.005	-0.003	0.000
17.1I	ELS3	0.002	-0.014	-0.150	-0.003	-0.002	0.000

17.2D	ELU5	0.000	-0.018	-0.187	-0.005	0.004	0.000
17.2D	ELS3	0.000	-0.014	-0.145	-0.003	0.003	0.000
17.2I	ELU5	0.003	-0.017	-0.180	-0.005	-0.005	0.000
17.2I	ELS3	0.002	-0.014	-0.145	-0.003	-0.003	0.000
17.3D	ELU5	-0.001	-0.018	-0.176	-0.005	0.006	0.000
17.3D	ELS3	-0.001	-0.014	-0.137	-0.003	0.004	0.000
17.3I	ELU5	0.004	-0.017	-0.167	-0.005	-0.007	0.000
17.3I	ELS3	0.003	-0.014	-0.137	-0.003	-0.004	0.000
17.4D	ELU5	-0.002	-0.018	-0.165	-0.005	0.007	0.000
17.4D	ELS3	-0.001	-0.014	-0.130	-0.003	0.004	0.000
17.4I	ELU5	0.004	-0.017	-0.155	-0.004	-0.007	0.000
17.4I	ELS3	0.003	-0.014	-0.130	-0.003	-0.004	0.000
17.5D	ELU5	-0.001	-0.018	-0.159	-0.005	0.007	0.000
17.5D	ELS3	0.000	-0.014	-0.126	-0.003	0.004	0.000
17.5I	ELU5	0.004	-0.016	-0.147	-0.004	-0.007	0.000
17.5I	ELS3	0.003	-0.014	-0.125	-0.003	-0.004	0.000
17.6D	ELU5	0.000	-0.017	-0.149	-0.004	0.006	0.000
17.6D	ELS3	0.000	-0.014	-0.120	-0.003	0.004	0.000
17.6I	ELU5	0.003	-0.016	-0.136	-0.004	-0.007	0.000
17.6I	ELS3	0.002	-0.013	-0.119	-0.003	-0.004	0.000
17.7D	ELU5	0.001	-0.016	-0.136	-0.004	0.006	0.000
17.7D	ELS3	0.001	-0.013	-0.112	-0.003	0.004	0.000
17.7I	ELU5	0.002	-0.015	-0.122	-0.003	-0.007	0.000
17.7I	ELS3	0.001	-0.012	-0.112	-0.003	-0.004	0.000
18.1D	ELU5	0.001	-0.018	-0.179	-0.007	0.001	0.000
18.1D	ELS3	0.001	-0.015	-0.141	-0.005	0.001	0.000
18.1I	ELU5	0.002	-0.018	-0.176	-0.006	-0.003	0.000
18.1I	ELS3	0.002	-0.015	-0.141	-0.005	-0.001	0.000
18.2D	ELU5	0.000	-0.018	-0.174	-0.006	0.004	0.000
18.2D	ELS3	0.000	-0.015	-0.136	-0.005	0.003	0.000
18.2I	ELU5	0.003	-0.018	-0.168	-0.006	-0.005	0.000
18.2I	ELS3	0.002	-0.014	-0.136	-0.005	-0.003	0.000
18.3D	ELU5	-0.001	-0.019	-0.163	-0.006	0.005	0.000
18.3D	ELS3	0.000	-0.015	-0.129	-0.005	0.004	0.000
18.3I	ELU5	0.004	-0.018	-0.155	-0.006	-0.006	0.000
18.3I	ELS3	0.003	-0.015	-0.128	-0.005	-0.004	0.000
18.4D	ELU5	-0.001	-0.019	-0.153	-0.006	0.006	0.000
18.4D	ELS3	-0.001	-0.015	-0.122	-0.004	0.004	0.000



18.4I	ELU5	0.004	-0.018	-0.144	-0.005	-0.007	0.000
18.4I	ELS3	0.003	-0.015	-0.121	-0.004	-0.004	0.000
18.5D	ELU5	-0.001	-0.019	-0.148	-0.006	0.006	0.000
18.5D	ELS3	0.000	-0.015	-0.118	-0.004	0.004	0.000
18.5I	ELU5	0.004	-0.017	-0.137	-0.005	-0.007	0.000
18.5I	ELS3	0.003	-0.014	-0.117	-0.004	-0.004	0.000
18.6D	ELU5	0.000	-0.018	-0.138	-0.005	0.006	0.000
18.6D	ELS3	0.000	-0.014	-0.112	-0.004	0.004	0.000
18.6I	ELU5	0.003	-0.016	-0.126	-0.005	-0.006	0.000
18.6I	ELS3	0.002	-0.014	-0.111	-0.004	-0.004	0.000
18.7D	ELU5	0.001	-0.017	-0.127	-0.005	0.005	0.000
18.7D	ELS3	0.001	-0.014	-0.104	-0.004	0.003	0.000
18.7I	ELU5	0.002	-0.015	-0.113	-0.004	-0.006	0.000
18.7I	ELS3	0.001	-0.013	-0.104	-0.004	-0.003	0.000
19.1D	ELU5	0.001	-0.019	-0.161	-0.008	0.001	0.000
19.1D	ELS3	0.001	-0.016	-0.127	-0.006	0.001	0.000
19.1I	ELU5	0.002	-0.019	-0.158	-0.008	-0.003	0.000
19.1I	ELS3	0.002	-0.016	-0.127	-0.006	-0.001	0.000
19.2D	ELU5	0.000	-0.020	-0.156	-0.008	0.003	0.000
19.2D	ELS3	0.000	-0.016	-0.123	-0.007	0.003	0.000
19.2I	ELU5	0.003	-0.019	-0.150	-0.008	-0.005	0.000
19.2I	ELS3	0.002	-0.016	-0.122	-0.007	-0.003	0.000
19.3D	ELU5	-0.001	-0.020	-0.146	-0.008	0.005	0.000
19.3D	ELS3	0.000	-0.016	-0.115	-0.006	0.004	0.000
19.3I	ELU5	0.004	-0.019	-0.138	-0.008	-0.006	0.000
19.3I	ELS3	0.003	-0.016	-0.115	-0.006	-0.004	0.000
19.4D	ELU5	-0.001	-0.020	-0.136	-0.008	0.006	0.000
19.4D	ELS3	0.000	-0.016	-0.109	-0.006	0.004	0.000
19.4I	ELU5	0.004	-0.019	-0.128	-0.008	-0.006	0.000
19.4I	ELS3	0.003	-0.016	-0.108	-0.006	-0.004	0.000
19.5D	ELU5	-0.001	-0.020	-0.131	-0.008	0.006	0.000
19.5D	ELS3	0.000	-0.016	-0.105	-0.006	0.004	0.000
19.5I	ELU5	0.004	-0.019	-0.121	-0.008	-0.006	0.000
19.5I	ELS3	0.003	-0.016	-0.105	-0.006	-0.004	0.000
19.6D	ELU5	0.000	-0.019	-0.122	-0.008	0.005	0.000
19.6D	ELS3	0.000	-0.015	-0.099	-0.006	0.003	0.000
19.6I	ELU5	0.003	-0.017	-0.112	-0.007	-0.006	0.000
19.6I	ELS3	0.002	-0.015	-0.099	-0.006	-0.003	0.000

19.7D	ELU5	0.001	-0.018	-0.112	-0.008	0.005	0.000
19.7D	ELS3	0.001	-0.014	-0.092	-0.006	0.003	0.000
19.7I	ELU5	0.002	-0.016	-0.100	-0.007	-0.006	0.000
19.7I	ELS3	0.002	-0.013	-0.092	-0.006	-0.003	0.000
20.1D	ELU5	0.001	-0.021	-0.137	-0.011	0.001	0.000
20.1D	ELS3	0.001	-0.017	-0.108	-0.009	0.001	0.000
20.1I	ELU5	0.003	-0.021	-0.134	-0.011	-0.003	0.000
20.1I	ELS3	0.002	-0.017	-0.108	-0.009	-0.001	0.000
20.2D	ELU5	0.000	-0.022	-0.131	-0.011	0.003	0.000
20.2D	ELS3	0.000	-0.017	-0.103	-0.009	0.003	0.000
20.2I	ELU5	0.003	-0.021	-0.126	-0.011	-0.004	0.000
20.2I	ELS3	0.002	-0.017	-0.103	-0.009	-0.003	0.000
20.3D	ELU5	-0.001	-0.022	-0.121	-0.011	0.005	0.000
20.3D	ELS3	0.000	-0.018	-0.096	-0.009	0.004	0.000
20.3I	ELU5	0.004	-0.021	-0.115	-0.011	-0.006	0.000
20.3I	ELS3	0.003	-0.017	-0.096	-0.009	-0.004	0.000
20.4D	ELU5	-0.001	-0.022	-0.112	-0.011	0.005	0.000
20.4D	ELS3	0.000	-0.018	-0.090	-0.008	0.004	0.000
20.4I	ELU5	0.004	-0.020	-0.105	-0.010	-0.006	0.000
20.4I	ELS3	0.003	-0.017	-0.090	-0.008	-0.004	0.000
20.5D	ELU5	-0.001	-0.021	-0.107	-0.011	0.005	0.000
20.5D	ELS3	0.000	-0.017	-0.086	-0.008	0.004	0.000
20.5I	ELU5	0.004	-0.020	-0.099	-0.010	-0.006	0.000
20.5I	ELS3	0.003	-0.017	-0.086	-0.008	-0.004	0.000
20.6D	ELU5	0.000	-0.020	-0.099	-0.011	0.005	0.000
20.6D	ELS3	0.000	-0.016	-0.080	-0.009	0.003	0.000
20.6I	ELU5	0.003	-0.019	-0.090	-0.010	-0.006	0.000
20.6I	ELS3	0.002	-0.016	-0.080	-0.009	-0.003	0.000
20.7D	ELU5	0.001	-0.019	-0.089	-0.010	0.005	0.000
20.7D	ELS3	0.001	-0.015	-0.074	-0.008	0.003	0.000
20.7I	ELU5	0.002	-0.017	-0.079	-0.009	-0.005	0.000
20.7I	ELS3	0.002	-0.014	-0.074	-0.008	-0.003	0.000
21.1D	ELU5	0.001	-0.023	-0.106	-0.013	0.001	0.000
21.1D	ELS3	0.001	-0.019	-0.084	-0.010	0.001	0.000
21.1I	ELU5	0.003	-0.022	-0.104	-0.013	-0.002	0.000
21.1I	ELS3	0.002	-0.018	-0.084	-0.010	-0.001	0.000
21.2D	ELU5	0.000	-0.023	-0.101	-0.013	0.003	0.000
21.2D	ELS3	0.000	-0.019	-0.080	-0.010	0.003	0.000



21.2I	ELU5	0.003	-0.022	-0.097	-0.012	-0.004	0.000
21.2I	ELS3	0.003	-0.018	-0.080	-0.010	-0.003	0.000
21.3D	ELU5	-0.001	-0.023	-0.092	-0.012	0.005	0.000
21.3D	ELS3	0.000	-0.019	-0.073	-0.010	0.004	0.000
21.3I	ELU5	0.004	-0.022	-0.087	-0.012	-0.005	0.000
21.3I	ELS3	0.003	-0.018	-0.073	-0.010	-0.003	0.000
21.4D	ELU5	-0.001	-0.023	-0.083	-0.012	0.005	0.000
21.4D	ELS3	0.000	-0.019	-0.066	-0.010	0.004	0.000
21.4I	ELU5	0.004	-0.022	-0.077	-0.012	-0.005	0.000
21.4I	ELS3	0.003	-0.018	-0.066	-0.010	-0.004	0.000
21.5D	ELU5	-0.001	-0.023	-0.078	-0.012	0.005	0.000
21.5D	ELS3	0.000	-0.018	-0.063	-0.010	0.004	0.000
21.5I	ELU5	0.004	-0.021	-0.072	-0.012	-0.005	0.000
21.5I	ELS3	0.003	-0.018	-0.063	-0.010	-0.004	0.000
21.6D	ELU5	0.000	-0.021	-0.070	-0.012	0.005	0.000
21.6D	ELS3	0.000	-0.017	-0.057	-0.009	0.003	0.000
21.6I	ELU5	0.003	-0.020	-0.063	-0.011	-0.005	0.000
21.6I	ELS3	0.002	-0.017	-0.057	-0.009	-0.003	0.000
21.7D	ELU5	0.001	-0.020	-0.060	-0.013	0.005	0.000
21.7D	ELS3	0.001	-0.016	-0.051	-0.010	0.003	0.000
21.7I	ELU5	0.002	-0.018	-0.053	-0.011	-0.005	0.000
21.7I	ELS3	0.002	-0.015	-0.051	-0.010	-0.003	0.000
22.1D	ELU5	0.001	-0.023	-0.073	-0.013	0.002	0.000
22.1D	ELS3	0.001	-0.019	-0.057	-0.010	0.001	0.000
22.1I	ELU5	0.003	-0.023	-0.071	-0.013	-0.002	0.000
22.1I	ELS3	0.002	-0.019	-0.057	-0.010	-0.001	0.000
22.2D	ELU5	0.000	-0.024	-0.067	-0.013	0.003	0.000
22.2D	ELS3	0.000	-0.020	-0.053	-0.011	0.003	0.000
22.2I	ELU5	0.004	-0.023	-0.065	-0.013	-0.004	0.000
22.2I	ELS3	0.003	-0.019	-0.052	-0.011	-0.003	0.000
22.3D	ELU5	0.000	-0.025	-0.058	-0.014	0.004	0.000
22.3D	ELS3	0.000	-0.020	-0.046	-0.011	0.003	0.000
22.3I	ELU5	0.004	-0.023	-0.055	-0.013	-0.005	0.000
22.3I	ELS3	0.003	-0.020	-0.046	-0.011	-0.003	0.000
22.4D	ELU5	-0.001	-0.024	-0.050	-0.013	0.005	0.000
22.4D	ELS3	0.000	-0.020	-0.040	-0.010	0.003	0.000
22.4I	ELU5	0.004	-0.023	-0.046	-0.012	-0.005	0.000
22.4I	ELS3	0.003	-0.019	-0.040	-0.010	-0.003	0.000

22.5D	ELU5	0.000	-0.024	-0.045	-0.013	0.005	0.000
22.5D	ELS3	0.000	-0.019	-0.036	-0.010	0.003	0.000
22.5I	ELU5	0.004	-0.022	-0.042	-0.012	-0.005	0.000
22.5I	ELS3	0.003	-0.019	-0.037	-0.010	-0.003	0.000
22.6D	ELU5	0.000	-0.023	-0.037	-0.013	0.005	0.000
22.6D	ELS3	0.000	-0.018	-0.031	-0.011	0.003	0.000
22.6I	ELU5	0.003	-0.021	-0.034	-0.012	-0.005	0.000
22.6I	ELS3	0.002	-0.018	-0.031	-0.010	-0.003	0.000
22.7D	ELU5	0.001	-0.020	-0.027	-0.012	0.005	0.000
22.7D	ELS3	0.001	-0.016	-0.024	-0.010	0.003	0.000
22.7I	ELU5	0.002	-0.019	-0.024	-0.011	-0.005	0.000
22.7I	ELS3	0.002	-0.016	-0.025	-0.010	-0.003	0.000
23.1D	ELU5	0.001	-0.022	-0.043	-0.009	0.002	0.000
23.1D	ELS3	0.001	-0.018	-0.033	-0.008	0.002	0.000
23.1I	ELU5	0.003	-0.022	-0.042	-0.009	-0.002	0.000
23.1I	ELS3	0.002	-0.018	-0.033	-0.008	-0.002	0.000
23.2D	ELU5	0.000	-0.023	-0.036	-0.010	0.004	0.001
23.2D	ELS3	0.000	-0.019	-0.028	-0.008	0.003	0.000
23.2I	ELU5	0.004	-0.022	-0.035	-0.009	-0.004	-0.001
23.2I	ELS3	0.003	-0.018	-0.028	-0.008	-0.003	-0.001
23.3D	ELU5	-0.001	-0.024	-0.026	-0.010	0.004	0.000
23.3D	ELS3	-0.001	-0.020	-0.021	-0.008	0.003	0.000
23.3I	ELU5	0.005	-0.023	-0.025	-0.009	-0.004	0.001
23.3I	ELS3	0.004	-0.019	-0.020	-0.008	-0.003	0.000
23.4D	ELU5	0.000	-0.025	-0.018	-0.010	0.004	0.000
23.4D	ELS3	0.000	-0.020	-0.015	-0.008	0.003	0.000
23.4I	ELU5	0.004	-0.023	-0.017	-0.009	-0.004	0.000
23.4I	ELS3	0.003	-0.019	-0.015	-0.008	-0.003	0.000
23.5D	ELU5	0.000	-0.024	-0.014	-0.010	0.004	0.000
23.5D	ELS3	0.000	-0.020	-0.012	-0.008	0.003	0.000
23.5I	ELU5	0.004	-0.023	-0.013	-0.009	-0.004	0.000
23.5I	ELS3	0.003	-0.019	-0.012	-0.008	-0.003	0.000
23.6D	ELU5	0.001	-0.022	-0.008	-0.008	0.003	0.000
23.6D	ELS3	0.001	-0.018	-0.007	-0.006	0.002	0.000
23.6I	ELU5	0.003	-0.021	-0.007	-0.007	-0.003	0.000
23.6I	ELS3	0.002	-0.017	-0.008	-0.006	-0.002	0.000
23.7D	ELU5	0.001	-0.019	-0.002	-0.006	0.003	-0.001
23.7D	ELS3	0.001	-0.016	-0.003	-0.005	0.002	-0.001



23.7I	ELU5	0.003	-0.018	-0.001	-0.005	-0.003	0.001
23.7I	ELS3	0.002	-0.015	-0.004	-0.005	-0.002	0.001
24.1D	ELU5	0.001	-0.022	-0.019	-0.007	0.001	0.000
24.1D	ELS3	0.001	-0.018	-0.014	-0.006	0.001	0.000
24.1I	ELU5	0.003	-0.021	-0.019	-0.007	-0.002	0.000
24.1I	ELS3	0.002	-0.017	-0.014	-0.006	-0.001	0.000
24.2D	ELU5	0.001	-0.022	-0.014	-0.006	0.003	0.000
24.2D	ELS3	0.001	-0.017	-0.011	-0.004	0.002	0.000
24.2I	ELU5	0.004	-0.021	-0.014	-0.005	-0.003	0.000
24.2I	ELS3	0.003	-0.017	-0.010	-0.004	-0.002	0.000
24.3D	ELU5	0.000	-0.022	-0.006	-0.003	0.003	0.002
24.3D	ELS3	0.000	-0.017	-0.005	-0.003	0.003	0.001
24.3I	ELU5	0.004	-0.021	-0.006	-0.003	-0.003	-0.002
24.3I	ELS3	0.003	-0.017	-0.005	-0.003	-0.002	-0.001
24.4D	ELU5	-0.001	-0.024	0.000	0.000	0.002	0.000
24.4D	ELS3	0.000	-0.020	0.000	0.000	0.002	0.000
24.4I	ELU5	0.005	-0.023	0.000	0.000	-0.002	0.001
24.4I	ELS3	0.004	-0.019	0.000	0.000	-0.001	0.001
24.5D	ELU5	-0.001	-0.024	0.002	0.000	0.002	0.000
24.5D	ELS3	0.000	-0.019	0.001	0.000	0.002	0.000
24.5I	ELU5	0.005	-0.022	0.002	0.000	-0.002	0.001
24.5I	ELS3	0.004	-0.019	0.001	0.000	-0.001	0.001
24.6D	ELU5	0.000	-0.020	0.005	0.000	0.002	-0.002
24.6D	ELS3	0.000	-0.016	0.004	0.000	0.002	-0.002
24.6I	ELU5	0.005	-0.018	0.005	0.000	-0.002	0.002
24.6I	ELS3	0.004	-0.015	0.003	0.000	-0.002	0.001
24.7D	ELU5	0.000	-0.019	0.010	-0.001	0.003	0.001
24.7D	ELS3	0.000	-0.015	0.007	-0.001	0.002	0.001
24.7I	ELU5	0.004	-0.017	0.010	-0.001	-0.003	0.000
24.7I	ELS3	0.003	-0.015	0.006	-0.002	-0.002	0.000
H1.1D	ELU5	-0.001	-0.004	-0.002	0.008	0.000	0.002
H1.1D	ELS3	-0.001	-0.004	-0.001	0.006	0.000	0.001
H1.1I	ELU5	0.001	-0.004	0.000	0.008	0.000	-0.001
H1.1I	ELS3	0.001	-0.004	-0.001	0.006	0.000	-0.001
H1.2D	ELU5	-0.002	-0.005	-0.002	0.015	0.000	0.000
H1.2D	ELS3	-0.001	-0.004	-0.002	0.012	0.000	0.000
H1.2I	ELU5	0.001	-0.005	-0.001	0.014	0.000	0.000
H1.2I	ELS3	0.001	-0.004	-0.001	0.012	0.000	0.000

H1.3D	ELU5	-0.002	-0.006	-0.001	0.019	0.000	0.001
H1.3D	ELS3	-0.001	-0.005	-0.001	0.015	0.000	0.001
H1.3I	ELU5	0.001	-0.005	-0.001	0.017	0.000	-0.001
H1.3I	ELS3	0.001	-0.005	-0.001	0.015	0.000	-0.001
H1.5I	ELU5	0.001	-0.007	0.000	0.019	0.000	0.000
H1.5I	ELS3	0.001	-0.006	0.000	0.017	0.000	0.000
H1.6D	ELU5	-0.001	-0.007	0.000	0.021	0.000	0.000
H1.6D	ELS3	-0.001	-0.006	0.000	0.017	0.000	0.000
H1.7D	ELU5	-0.001	-0.009	0.000	0.022	0.000	0.000
H1.7D	ELS3	-0.001	-0.007	-0.001	0.018	0.000	0.000
H1.7I	ELU5	0.001	-0.008	0.000	0.019	0.000	0.000
H1.7I	ELS3	0.001	-0.007	-0.001	0.017	0.001	0.000
H10.0	ELU5	0.000	-0.013	-0.224	0.000	-0.001	0.000
H10.0	ELS3	0.001	-0.011	-0.179	-0.001	0.000	0.000
H11.0	ELU5	0.000	-0.014	-0.223	-0.001	-0.001	0.000
H11.0	ELS3	0.001	-0.011	-0.176	-0.001	0.000	0.000
H12.0	ELU5	0.001	-0.014	-0.224	0.001	-0.001	0.000
H12.0	ELS3	0.001	-0.011	-0.174	-0.001	0.000	0.000
H13.0	ELU5	0.001	-0.014	-0.228	0.001	-0.001	0.000
H13.0	ELS3	0.001	-0.011	-0.171	-0.002	0.000	0.000
H14.0	ELU5	0.001	-0.014	-0.228	-0.001	-0.002	0.000
H14.0	ELS3	0.001	-0.011	-0.167	-0.001	0.000	0.000
H15.0	ELU5	0.001	-0.014	-0.219	-0.005	-0.001	0.000
H15.0	ELS3	0.001	-0.012	-0.164	-0.002	0.000	0.000
H16.0	ELU5	0.001	-0.014	-0.207	-0.005	-0.001	0.000
H16.0	ELS3	0.001	-0.012	-0.159	-0.002	0.000	0.000
H17.0	ELU5	0.001	-0.014	-0.194	-0.005	-0.001	0.000
H17.0	ELS3	0.001	-0.012	-0.152	-0.003	0.000	0.000
H18.0	ELU5	0.001	-0.014	-0.180	-0.006	-0.001	0.000
H18.0	ELS3	0.001	-0.012	-0.142	-0.005	0.000	0.000
H19.0	ELU5	0.001	-0.015	-0.162	-0.009	-0.001	0.000
H19.0	ELS3	0.001	-0.012	-0.129	-0.007	0.000	0.000
H2.1D	ELU5	0.000	-0.006	-0.044	0.024	-0.002	0.000
H2.1D	ELS3	0.000	-0.005	-0.035	0.019	-0.001	0.000
H2.1I	ELU5	0.000	-0.005	-0.042	0.023	0.001	-0.001
H2.1I	ELS3	0.000	-0.004	-0.035	0.019	0.001	0.000
H2.2D	ELU5	0.000	-0.007	-0.048	0.020	-0.002	0.001
H2.2D	ELS3	0.000	-0.006	-0.038	0.016	-0.001	0.001





H2.2I	ELU5	0.000	-0.006	-0.045	0.019	0.001	-0.001
H2.2I	ELS3	0.000	-0.005	-0.038	0.016	0.001	-0.001
H2.3D	ELU5	-0.001	-0.007	-0.050	0.019	-0.001	0.000
H2.3D	ELS3	0.000	-0.006	-0.040	0.015	-0.001	0.000
H2.3I	ELU5	0.000	-0.007	-0.046	0.018	0.001	0.000
H2.3I	ELS3	0.000	-0.006	-0.040	0.015	0.001	0.000
H2.6D	ELU5	-0.001	-0.009	-0.052	0.020	-0.001	0.000
H2.6D	ELS3	0.000	-0.008	-0.042	0.016	-0.001	0.000
H2.6I	ELU5	0.001	-0.008	-0.047	0.018	0.000	0.000
H2.6I	ELS3	0.001	-0.007	-0.042	0.016	0.001	0.000
H2.7D	ELU5	-0.001	-0.010	-0.054	0.020	-0.001	0.000
H2.7D	ELS3	-0.001	-0.009	-0.045	0.016	-0.001	0.000
H2.7I	ELU5	0.001	-0.009	-0.048	0.017	0.000	0.000
H2.7I	ELS3	0.001	-0.008	-0.044	0.016	0.001	0.000
H20.0	ELU5	0.001	-0.015	-0.137	-0.011	-0.001	0.000
H20.0	ELS3	0.001	-0.012	-0.109	-0.009	0.000	0.000
H21.0	ELU5	0.002	-0.015	-0.107	-0.013	0.000	0.000
H21.0	ELS3	0.001	-0.013	-0.085	-0.011	0.000	0.000
H22.0	ELU5	0.002	-0.016	-0.074	-0.012	0.000	0.000
H22.0	ELS3	0.001	-0.013	-0.059	-0.010	0.000	0.000
H23.0	ELU5	0.002	-0.016	-0.045	-0.010	0.000	0.000
H23.0	ELS3	0.002	-0.014	-0.035	-0.008	0.000	0.000
H24.0	ELU5	0.002	-0.017	-0.021	-0.007	0.000	0.000
H24.0	ELS3	0.002	-0.014	-0.016	-0.006	0.000	0.000
H3.1D	ELU5	0.000	-0.008	-0.103	0.022	0.001	0.000
H3.1D	ELS3	0.000	-0.007	-0.083	0.018	0.001	0.000
H3.1I	ELU5	0.000	-0.008	-0.100	0.022	-0.002	0.000
H3.1I	ELS3	0.000	-0.007	-0.082	0.018	-0.001	0.000
H3.2D	ELU5	0.000	-0.009	-0.101	0.021	0.001	0.000
H3.2D	ELS3	0.000	-0.007	-0.081	0.017	0.001	0.000
H3.2I	ELU5	0.000	-0.008	-0.096	0.021	-0.002	0.000
H3.2I	ELS3	0.000	-0.007	-0.080	0.017	-0.001	0.000
H3.3D	ELU5	0.000	-0.009	-0.099	0.019	0.001	0.001
H3.3D	ELS3	0.000	-0.008	-0.079	0.015	0.000	0.001
H3.3I	ELU5	0.000	-0.009	-0.092	0.018	-0.001	0.000
H3.3I	ELS3	0.000	-0.007	-0.079	0.015	0.000	0.000
H3.6D	ELU5	0.000	-0.010	-0.097	0.016	0.000	0.000
H3.6D	ELS3	0.000	-0.009	-0.079	0.013	0.000	0.000

H3.6I	ELU5	0.000	-0.009	-0.088	0.014	-0.001	0.000
H3.6I	ELS3	0.000	-0.008	-0.078	0.013	0.000	0.000
H3.7D	ELU5	0.000	-0.011	-0.098	0.015	0.000	0.000
H3.7D	ELS3	0.000	-0.010	-0.081	0.012	-0.001	0.000
H3.7I	ELU5	0.000	-0.010	-0.087	0.013	0.000	0.000
H3.7I	ELS3	0.000	-0.009	-0.080	0.012	0.001	0.000
H4.1D	ELU5	0.000	-0.010	-0.149	0.015	0.000	0.000
H4.1D	ELS3	0.000	-0.009	-0.120	0.012	0.001	0.000
H4.1I	ELU5	0.000	-0.010	-0.145	0.015	-0.002	0.000
H4.1I	ELS3	0.000	-0.008	-0.120	0.012	-0.001	0.000
H4.2D	ELU5	0.001	-0.010	-0.147	0.015	0.002	0.000
H4.2D	ELS3	0.001	-0.008	-0.118	0.012	0.002	0.000
H4.2I	ELU5	-0.001	-0.010	-0.140	0.014	-0.003	0.000
H4.2I	ELS3	0.000	-0.008	-0.117	0.012	-0.002	0.000
H4.3D	ELU5	0.001	-0.010	-0.142	0.015	0.002	0.000
H4.3D	ELS3	0.001	-0.009	-0.114	0.012	0.002	0.000
H4.3I	ELU5	-0.001	-0.010	-0.132	0.014	-0.004	0.000
H4.3I	ELS3	0.000	-0.008	-0.113	0.012	-0.002	0.000
H4.6D	ELU5	0.000	-0.011	-0.133	0.012	0.001	0.000
H4.6D	ELS3	0.000	-0.009	-0.108	0.010	0.001	0.000
H4.6I	ELU5	0.000	-0.010	-0.120	0.011	-0.002	0.000
H4.6I	ELS3	0.000	-0.009	-0.107	0.010	-0.001	0.000
H4.7D	ELU5	0.000	-0.012	-0.131	0.011	0.001	0.000
H4.7D	ELS3	0.000	-0.010	-0.107	0.009	0.000	0.000
H4.7I	ELU5	0.000	-0.011	-0.116	0.009	-0.002	0.000
H4.7I	ELS3	0.000	-0.009	-0.106	0.009	0.000	0.000
H5.1D	ELU5	0.000	-0.012	-0.182	0.012	0.001	0.000
H5.1D	ELS3	0.001	-0.010	-0.147	0.009	0.001	0.000
H5.1I	ELU5	0.000	-0.011	-0.178	0.011	-0.003	0.000
H5.1I	ELS3	0.000	-0.010	-0.147	0.009	-0.001	0.000
H5.2D	ELU5	0.001	-0.011	-0.179	0.011	0.002	0.000
H5.2D	ELS3	0.001	-0.010	-0.144	0.009	0.002	0.000
H5.2I	ELU5	0.000	-0.011	-0.171	0.011	-0.004	0.000
H5.2I	ELS3	0.000	-0.009	-0.143	0.009	-0.002	0.000
H5.3D	ELU5	0.001	-0.011	-0.173	0.010	0.003	0.000
H5.3D	ELS3	0.001	-0.009	-0.139	0.008	0.002	0.000
H5.3I	ELU5	-0.001	-0.011	-0.162	0.010	-0.005	0.000
H5.3I	ELS3	0.000	-0.009	-0.138	0.008	-0.003	0.000



H5.6D	ELU5	0.001	-0.012	-0.159	0.009	0.003	0.000
H5.6D	ELS3	0.001	-0.010	-0.129	0.007	0.002	0.000
H5.6I	ELU5	0.000	-0.011	-0.143	0.008	-0.004	0.000
H5.6I	ELS3	0.000	-0.009	-0.127	0.007	-0.002	0.000
H5.7D	ELU5	0.001	-0.012	-0.155	0.008	0.002	0.000
H5.7D	ELS3	0.001	-0.010	-0.126	0.006	0.001	0.000
H5.7I	ELU5	0.000	-0.011	-0.136	0.007	-0.003	0.000
H5.7I	ELS3	0.000	-0.009	-0.124	0.006	-0.001	0.000
H6.1D	ELU5	0.000	-0.012	-0.204	0.006	0.001	0.000
H6.1D	ELS3	0.001	-0.010	-0.165	0.005	0.001	0.000
H6.1I	ELU5	0.000	-0.012	-0.200	0.006	-0.002	0.000
H6.1I	ELS3	0.000	-0.010	-0.164	0.005	-0.001	0.000
H6.2D	ELU5	0.001	-0.012	-0.201	0.007	0.003	0.000
H6.2D	ELS3	0.001	-0.010	-0.161	0.005	0.002	0.000
H6.2I	ELU5	0.000	-0.012	-0.192	0.006	-0.004	0.000
H6.2I	ELS3	0.000	-0.010	-0.160	0.005	-0.002	0.000
H6.3D	ELU5	0.001	-0.012	-0.193	0.006	0.004	0.000
H6.3D	ELS3	0.001	-0.010	-0.155	0.005	0.003	0.000
H6.3I	ELU5	0.000	-0.011	-0.182	0.006	-0.005	0.000
H6.3I	ELS3	0.000	-0.010	-0.154	0.005	-0.003	0.000
H6.6D	ELU5	0.001	-0.012	-0.177	0.005	0.004	0.000
H6.6D	ELS3	0.001	-0.010	-0.143	0.004	0.003	0.000
H6.6I	ELU5	0.000	-0.011	-0.159	0.005	-0.005	0.000
H6.6I	ELS3	0.000	-0.009	-0.141	0.004	-0.003	0.000
H6.7D	ELU5	0.001	-0.012	-0.170	0.004	0.003	0.000
H6.7D	ELS3	0.001	-0.010	-0.138	0.003	0.002	0.000
H6.7I	ELU5	0.000	-0.011	-0.149	0.004	-0.005	0.000
H6.7I	ELS3	0.000	-0.010	-0.136	0.003	-0.002	0.000
H7.1D	ELU5	0.001	-0.013	-0.216	0.004	0.001	0.000
H7.1D	ELS3	0.001	-0.011	-0.174	0.003	0.001	0.000
H7.1I	ELU5	0.000	-0.013	-0.212	0.004	-0.003	0.000
H7.1I	ELS3	0.000	-0.011	-0.174	0.003	-0.001	0.000
H7.2D	ELU5	0.001	-0.013	-0.212	0.003	0.003	0.000
H7.2D	ELS3	0.001	-0.011	-0.170	0.003	0.002	0.000
H7.2I	ELU5	0.000	-0.012	-0.204	0.003	-0.004	0.000
H7.2I	ELS3	0.000	-0.010	-0.169	0.003	-0.003	0.000
H7.3D	ELU5	0.001	-0.012	-0.204	0.003	0.004	0.000
H7.3D	ELS3	0.001	-0.010	-0.164	0.002	0.003	0.000

H7.3I	ELU5	0.000	-0.012	-0.192	0.003	-0.006	0.000
H7.3I	ELS3	0.000	-0.010	-0.163	0.002	-0.003	0.000
H7.6D	ELU5	0.001	-0.012	-0.184	0.002	0.004	0.000
H7.6D	ELS3	0.001	-0.010	-0.149	0.001	0.003	0.000
H7.6I	ELU5	0.000	-0.011	-0.167	0.002	-0.006	0.000
H7.6I	ELS3	0.000	-0.010	-0.147	0.001	-0.003	0.000
H7.7D	ELU5	0.001	-0.012	-0.176	0.001	0.004	0.000
H7.7D	ELS3	0.001	-0.010	-0.143	0.001	0.003	0.000
H7.7I	ELU5	0.000	-0.011	-0.155	0.001	-0.005	0.000
H7.7I	ELS3	0.000	-0.010	-0.141	0.001	-0.003	0.000
H8.1D	ELU5	0.001	-0.013	-0.222	0.001	0.001	0.000
H8.1D	ELS3	0.001	-0.011	-0.178	0.001	0.001	0.000
H8.1I	ELU5	0.000	-0.013	-0.218	0.001	-0.003	0.000
H8.1I	ELS3	0.000	-0.011	-0.178	0.001	-0.001	0.000
H8.2D	ELU5	0.001	-0.013	-0.217	0.002	0.003	0.000
H8.2D	ELS3	0.001	-0.011	-0.174	0.001	0.003	0.000
H8.2I	ELU5	0.000	-0.013	-0.209	0.002	-0.005	0.000
H8.2I	ELS3	0.000	-0.011	-0.173	0.001	-0.003	0.000
H8.3D	ELU5	0.001	-0.013	-0.208	0.001	0.005	0.000
H8.3D	ELS3	0.001	-0.011	-0.166	0.001	0.004	0.000
H8.3I	ELU5	0.000	-0.012	-0.197	0.002	-0.006	0.000
H8.3I	ELS3	0.000	-0.010	-0.165	0.001	-0.004	0.000
H8.6D	ELU5	0.001	-0.013	-0.186	0.001	0.005	0.000
H8.6D	ELS3	0.001	-0.010	-0.150	0.000	0.003	0.000
H8.6I	ELU5	0.000	-0.012	-0.168	0.001	-0.006	0.000
H8.6I	ELS3	0.000	-0.010	-0.148	0.000	-0.004	0.000
H8.7D	ELU5	0.001	-0.013	-0.176	0.000	0.004	0.000
H8.7D	ELS3	0.001	-0.010	-0.143	0.000	0.003	0.000
H8.7I	ELU5	0.000	-0.011	-0.156	0.000	-0.006	0.000
H8.7I	ELS3	0.000	-0.010	-0.142	0.000	-0.003	0.000
H9.1D	ELU5	0.001	-0.013	-0.225	0.001	0.001	0.000
H9.1D	ELS3	0.001	-0.011	-0.179	0.000	0.001	0.000
H9.1I	ELU5	0.000	-0.013	-0.220	0.001	-0.003	0.000
H9.1I	ELS3	0.000	-0.011	-0.179	0.000	-0.002	0.000
H9.2D	ELU5	0.001	-0.013	-0.220	0.000	0.003	0.000
H9.2D	ELS3	0.001	-0.011	-0.175	0.000	0.003	0.000
H9.2I	ELU5	0.000	-0.013	-0.212	0.000	-0.005	0.000
H9.2I	ELS3	0.000	-0.011	-0.174	0.000	-0.003	0.000



H9.3D	ELU5	0.001	-0.013	-0.210	0.000	0.005	0.000
H9.3D	ELS3	0.001	-0.011	-0.167	0.000	0.004	0.000
H9.3I	ELU5	0.000	-0.013	-0.199	0.000	-0.006	0.000
H9.3I	ELS3	0.000	-0.010	-0.167	0.000	-0.004	0.000
H9.6D	ELU5	0.001	-0.013	-0.186	0.000	0.005	0.000
H9.6D	ELS3	0.001	-0.011	-0.150	0.000	0.004	0.000
H9.6I	ELU5	0.000	-0.012	-0.170	0.000	-0.007	0.000
H9.6I	ELS3	0.000	-0.010	-0.149	0.000	-0.004	0.000
H9.7D	ELU5	0.001	-0.013	-0.175	-0.001	0.005	0.000
H9.7D	ELS3	0.001	-0.011	-0.143	-0.001	0.004	0.000
H9.7I	ELU5	0.000	-0.012	-0.156	-0.001	-0.007	0.000
H9.7I	ELS3	0.000	-0.010	-0.141	-0.001	-0.004	0.000
H10.1D	ELU5	0.001	-0.014	-0.224	-0.001	0.001	0.000
H10.1D	ELS3	0.001	-0.011	-0.178	-0.001	0.001	0.000
H10.1I	ELU5	0.000	-0.013	-0.220	-0.001	-0.003	0.000
H10.1I	ELS3	0.000	-0.011	-0.178	-0.001	-0.002	0.000
H10.2D	ELU5	0.001	-0.013	-0.219	0.000	0.004	0.000
H10.2D	ELS3	0.001	-0.011	-0.173	-0.001	0.003	0.000
H10.2I	ELU5	0.000	-0.013	-0.211	0.000	-0.005	0.000
H10.2I	ELS3	0.000	-0.011	-0.172	-0.001	-0.003	0.000
H10.3D	ELU5	0.001	-0.013	-0.209	-0.001	0.005	0.000
H10.3D	ELS3	0.001	-0.011	-0.165	-0.001	0.004	0.000
H10.3I	ELU5	0.000	-0.013	-0.198	-0.001	-0.007	0.000
H10.3I	ELS3	0.000	-0.011	-0.164	-0.001	-0.004	0.000
H10.6D	ELU5	0.001	-0.013	-0.183	-0.002	0.006	0.000
H10.6D	ELS3	0.001	-0.011	-0.147	-0.002	0.004	0.000
H10.6I	ELU5	0.000	-0.012	-0.167	-0.002	-0.007	0.000
H10.6I	ELS3	0.000	-0.010	-0.146	-0.002	-0.004	0.000
H10.7D	ELU5	0.001	-0.013	-0.171	-0.002	0.006	0.000
H10.7D	ELS3	0.001	-0.011	-0.139	-0.002	0.004	0.000
H10.7I	ELU5	0.000	-0.012	-0.152	-0.002	-0.007	0.000
H10.7I	ELS3	0.000	-0.010	-0.138	-0.002	-0.004	0.000
H11.1D	ELU5	0.001	-0.014	-0.223	0.000	0.001	0.000
H11.1D	ELS3	0.001	-0.011	-0.175	-0.001	0.002	0.000
H11.1I	ELU5	0.000	-0.013	-0.219	0.000	-0.003	0.000
H11.1I	ELS3	0.001	-0.011	-0.174	-0.001	-0.002	0.000
H11.2D	ELU5	0.001	-0.014	-0.217	0.000	0.004	0.000
H11.2D	ELS3	0.001	-0.011	-0.170	-0.001	0.003	0.000

H11.2I	ELU5	0.000	-0.013	-0.209	-0.001	-0.005	0.000
H11.2I	ELS3	0.000	-0.011	-0.169	-0.001	-0.003	0.000
H11.3D	ELU5	0.001	-0.014	-0.206	-0.001	0.006	0.000
H11.3D	ELS3	0.001	-0.011	-0.161	-0.001	0.004	0.000
H11.3I	ELU5	0.000	-0.013	-0.195	-0.001	-0.007	0.000
H11.3I	ELS3	0.000	-0.011	-0.161	-0.001	-0.004	0.000
H11.6D	ELU5	0.001	-0.013	-0.177	-0.002	0.006	0.000
H11.6D	ELS3	0.001	-0.011	-0.143	-0.001	0.004	0.000
H11.6I	ELU5	0.000	-0.012	-0.162	-0.001	-0.007	0.000
H11.6I	ELS3	0.000	-0.010	-0.142	-0.001	-0.004	0.000
H11.7D	ELU5	0.001	-0.013	-0.165	-0.002	0.006	0.000
H11.7D	ELS3	0.001	-0.011	-0.135	-0.001	0.004	0.000
H11.7I	ELU5	0.000	-0.012	-0.147	-0.002	-0.007	0.000
H11.7I	ELS3	0.000	-0.010	-0.134	-0.001	-0.004	0.000
H12.1D	ELU5	0.001	-0.014	-0.224	0.000	0.002	0.000
H12.1D	ELS3	0.001	-0.011	-0.172	-0.001	0.001	0.000
H12.1I	ELU5	0.000	-0.014	-0.220	0.000	-0.003	0.000
H12.1I	ELS3	0.001	-0.011	-0.172	-0.001	-0.002	0.000
H12.2D	ELU5	0.001	-0.014	-0.217	0.000	0.004	0.000
H12.2D	ELS3	0.001	-0.011	-0.167	-0.001	0.003	0.000
H12.2I	ELU5	0.000	-0.013	-0.210	0.000	-0.006	0.000
H12.2I	ELS3	0.000	-0.011	-0.167	-0.001	-0.003	0.000
H12.3D	ELU5	0.001	-0.014	-0.205	0.000	0.006	0.000
H12.3D	ELS3	0.001	-0.011	-0.159	-0.001	0.004	0.000
H12.3I	ELU5	0.000	-0.013	-0.195	0.000	-0.008	0.000
H12.3I	ELS3	0.001	-0.011	-0.158	-0.001	-0.004	0.000
H12.6D	ELU5	0.001	-0.014	-0.175	-0.001	0.007	0.000
H12.6D	ELS3	0.001	-0.011	-0.140	-0.001	0.004	0.000
H12.6I	ELU5	0.000	-0.013	-0.160	-0.001	-0.008	0.000
H12.6I	ELS3	0.000	-0.011	-0.140	-0.001	-0.004	0.000
H12.7D	ELU5	0.001	-0.014	-0.161	-0.002	0.007	0.000
H12.7D	ELS3	0.001	-0.011	-0.132	-0.001	0.004	0.000
H12.7I	ELU5	0.000	-0.013	-0.143	-0.002	-0.008	0.000
H12.7I	ELS3	0.000	-0.011	-0.131	-0.001	-0.004	0.000
H13.1D	ELU5	0.001	-0.014	-0.227	0.002	0.002	0.000
H13.1D	ELS3	0.001	-0.011	-0.169	-0.001	0.002	0.000
H13.1I	ELU5	0.000	-0.014	-0.222	0.001	-0.004	0.000
H13.1I	ELS3	0.001	-0.011	-0.169	-0.001	-0.002	0.000



H13.2D	ELU5	0.001	-0.014	-0.219	0.001	0.005	0.000
H13.2D	ELS3	0.001	-0.012	-0.164	-0.001	0.003	0.000
H13.2I	ELU5	0.000	-0.014	-0.210	0.000	-0.007	0.000
H13.2I	ELS3	0.001	-0.011	-0.164	-0.001	-0.003	0.000
H13.3D	ELU5	0.001	-0.014	-0.205	0.000	0.007	0.000
H13.3D	ELS3	0.001	-0.012	-0.156	-0.001	0.004	0.000
H13.3I	ELU5	0.000	-0.014	-0.193	-0.001	-0.008	0.000
H13.3I	ELS3	0.001	-0.011	-0.155	-0.001	-0.004	0.000
H13.6D	ELU5	0.001	-0.014	-0.170	-0.002	0.008	0.000
H13.6D	ELS3	0.001	-0.012	-0.137	-0.002	0.004	0.000
H13.6I	ELU5	0.000	-0.013	-0.156	-0.002	-0.009	0.000
H13.6I	ELS3	0.001	-0.011	-0.136	-0.002	-0.004	0.000
H13.7D	ELU5	0.002	-0.014	-0.154	-0.003	0.008	0.000
H13.7D	ELS3	0.001	-0.012	-0.129	-0.002	0.004	0.000
H13.7I	ELU5	0.000	-0.013	-0.138	-0.002	-0.008	0.000
H13.7I	ELS3	0.000	-0.011	-0.128	-0.002	-0.004	0.000
H14.1D	ELU5	0.001	-0.014	-0.228	-0.002	0.002	0.000
H14.1D	ELS3	0.001	-0.012	-0.165	-0.002	0.002	0.000
H14.1I	ELU5	0.000	-0.014	-0.221	-0.002	-0.005	0.000
H14.1I	ELS3	0.001	-0.011	-0.165	-0.002	-0.002	0.000
H14.2D	ELU5	0.001	-0.014	-0.219	-0.002	0.006	0.000
H14.2D	ELS3	0.001	-0.012	-0.160	-0.001	0.003	0.000
H14.2I	ELU5	0.000	-0.014	-0.208	-0.002	-0.007	0.000
H14.2I	ELS3	0.001	-0.011	-0.160	-0.001	-0.003	0.000
H14.3D	ELU5	0.001	-0.014	-0.202	-0.002	0.008	0.000
H14.3D	ELS3	0.001	-0.012	-0.152	-0.001	0.004	0.000
H14.3I	ELU5	0.001	-0.014	-0.189	-0.002	-0.009	0.000
H14.3I	ELS3	0.001	-0.011	-0.151	-0.001	-0.004	0.000
H14.6D	ELU5	0.001	-0.015	-0.165	-0.002	0.008	0.000
H14.6D	ELS3	0.001	-0.012	-0.133	-0.001	0.004	0.000
H14.6I	ELU5	0.000	-0.014	-0.150	-0.002	-0.009	0.000
H14.6I	ELS3	0.001	-0.011	-0.132	-0.001	-0.004	0.000
H14.7D	ELU5	0.002	-0.014	-0.148	-0.002	0.008	0.000
H14.7D	ELS3	0.001	-0.012	-0.125	-0.001	0.004	0.000
H14.7I	ELU5	0.000	-0.013	-0.133	-0.001	-0.008	0.000
H14.7I	ELS3	0.000	-0.011	-0.124	-0.001	-0.004	0.000
H15.1D	ELU5	0.001	-0.014	-0.219	-0.005	0.002	0.000
H15.1D	ELS3	0.001	-0.012	-0.162	-0.002	0.001	0.000

H15.1I	ELU5	0.001	-0.014	-0.214	-0.004	-0.004	0.000
H15.1I	ELS3	0.001	-0.012	-0.162	-0.002	-0.002	0.000
H15.2D	ELU5	0.001	-0.015	-0.211	-0.005	0.005	0.000
H15.2D	ELS3	0.001	-0.012	-0.157	-0.002	0.003	0.000
H15.2I	ELU5	0.001	-0.014	-0.202	-0.004	-0.007	0.000
H15.2I	ELS3	0.001	-0.012	-0.157	-0.002	-0.003	0.000
H15.3D	ELU5	0.001	-0.015	-0.196	-0.003	0.007	0.000
H15.3D	ELS3	0.001	-0.012	-0.149	-0.001	0.004	0.000
H15.3I	ELU5	0.001	-0.014	-0.185	-0.002	-0.008	0.000
H15.3I	ELS3	0.001	-0.012	-0.149	-0.001	-0.004	0.000
H15.6D	ELU5	0.001	-0.015	-0.162	-0.001	0.008	0.000
H15.6D	ELS3	0.001	-0.012	-0.131	-0.001	0.004	0.000
H15.6I	ELU5	0.001	-0.014	-0.148	-0.001	-0.008	0.000
H15.6I	ELS3	0.001	-0.012	-0.130	-0.001	-0.004	0.000
H15.7D	ELU5	0.002	-0.015	-0.147	-0.001	0.007	0.000
H15.7D	ELS3	0.001	-0.012	-0.123	-0.001	0.004	0.000
H15.7I	ELU5	0.000	-0.014	-0.131	-0.001	-0.008	0.000
H15.7I	ELS3	0.001	-0.011	-0.122	-0.001	-0.004	0.000
H16.1D	ELU5	0.001	-0.014	-0.206	-0.005	0.002	0.000
H16.1D	ELS3	0.001	-0.012	-0.158	-0.002	0.001	0.000
H16.1I	ELU5	0.001	-0.014	-0.202	-0.005	-0.003	0.000
H16.1I	ELS3	0.001	-0.012	-0.157	-0.002	-0.002	0.000
H16.2D	ELU5	0.001	-0.015	-0.200	-0.004	0.004	0.000
H16.2D	ELS3	0.001	-0.012	-0.153	-0.002	0.003	0.000
H16.2I	ELU5	0.001	-0.014	-0.192	-0.004	-0.006	0.000
H16.2I	ELS3	0.001	-0.012	-0.152	-0.002	-0.003	0.000
H16.3D	ELU5	0.001	-0.015	-0.188	-0.004	0.006	0.000
H16.3D	ELS3	0.001	-0.012	-0.145	-0.002	0.004	0.000
H16.3I	ELU5	0.001	-0.014	-0.178	-0.004	-0.007	0.000
H16.3I	ELS3	0.001	-0.012	-0.144	-0.002	-0.004	0.000
H16.6D	ELU5	0.001	-0.015	-0.158	-0.003	0.007	0.000
H16.6D	ELS3	0.001	-0.012	-0.127	-0.002	0.004	0.000
H16.6I	ELU5	0.001	-0.014	-0.144	-0.003	-0.008	0.000
H16.6I	ELS3	0.001	-0.012	-0.126	-0.002	-0.004	0.000
H16.7D	ELU5	0.002	-0.015	-0.144	-0.002	0.007	0.000
H16.7D	ELS3	0.001	-0.012	-0.119	-0.002	0.004	0.000
H16.7I	ELU5	0.000	-0.014	-0.128	-0.002	-0.008	0.000
H16.7I	ELS3	0.001	-0.012	-0.118	-0.002	-0.004	0.000





<b>H17.1D</b>	ELU5	0.001	-0.015	-0.193	-0.005	0.001	0.000
<b>H17.1D</b>	ELS3	0.001	-0.012	-0.150	-0.003	0.001	0.000
<b>H17.1I</b>	ELU5	0.001	-0.014	-0.190	-0.005	-0.003	0.000
<b>H17.1I</b>	ELS3	0.001	-0.012	-0.150	-0.003	-0.002	0.000
<b>H17.2D</b>	ELU5	0.001	-0.015	-0.187	-0.005	0.004	0.000
<b>H17.2D</b>	ELS3	0.001	-0.012	-0.145	-0.003	0.003	0.000
<b>H17.2I</b>	ELU5	0.001	-0.014	-0.180	-0.005	-0.005	0.000
<b>H17.2I</b>	ELS3	0.001	-0.012	-0.145	-0.003	-0.003	0.000
<b>H17.3D</b>	ELU5	0.001	-0.015	-0.176	-0.005	0.006	0.000
<b>H17.3D</b>	ELS3	0.001	-0.013	-0.137	-0.003	0.004	0.000
<b>H17.3I</b>	ELU5	0.001	-0.015	-0.167	-0.005	-0.007	0.000
<b>H17.3I</b>	ELS3	0.001	-0.012	-0.137	-0.003	-0.004	0.000
<b>H17.6D</b>	ELU5	0.002	-0.016	-0.149	-0.004	0.006	0.000
<b>H17.6D</b>	ELS3	0.001	-0.013	-0.120	-0.003	0.004	0.000
<b>H17.6I</b>	ELU5	0.001	-0.015	-0.136	-0.004	-0.007	0.000
<b>H17.6I</b>	ELS3	0.001	-0.012	-0.119	-0.003	-0.004	0.000
<b>H17.7D</b>	ELU5	0.002	-0.016	-0.136	-0.004	0.006	0.000
<b>H17.7D</b>	ELS3	0.002	-0.013	-0.112	-0.003	0.004	0.000
<b>H17.7I</b>	ELU5	0.001	-0.014	-0.121	-0.003	-0.007	0.000
<b>H17.7I</b>	ELS3	0.001	-0.012	-0.112	-0.003	-0.004	0.000
<b>H18.1D</b>	ELU5	0.001	-0.015	-0.179	-0.007	0.001	0.000
<b>H18.1D</b>	ELS3	0.001	-0.012	-0.141	-0.005	0.001	0.000
<b>H18.1I</b>	ELU5	0.001	-0.015	-0.176	-0.006	-0.003	0.000
<b>H18.1I</b>	ELS3	0.001	-0.012	-0.141	-0.005	-0.001	0.000
<b>H18.2D</b>	ELU5	0.002	-0.015	-0.174	-0.006	0.004	0.000
<b>H18.2D</b>	ELS3	0.001	-0.012	-0.136	-0.005	0.003	0.000
<b>H18.2I</b>	ELU5	0.001	-0.015	-0.168	-0.006	-0.005	0.000
<b>H18.2I</b>	ELS3	0.001	-0.012	-0.136	-0.005	-0.003	0.000
<b>H18.3D</b>	ELU5	0.002	-0.016	-0.163	-0.006	0.005	0.000
<b>H18.3D</b>	ELS3	0.001	-0.013	-0.129	-0.005	0.004	0.000
<b>H18.3I</b>	ELU5	0.001	-0.015	-0.155	-0.006	-0.006	0.000
<b>H18.3I</b>	ELS3	0.001	-0.012	-0.128	-0.005	-0.004	0.000
<b>H18.6D</b>	ELU5	0.002	-0.016	-0.138	-0.005	0.006	0.000
<b>H18.6D</b>	ELS3	0.001	-0.013	-0.112	-0.004	0.004	0.000
<b>H18.6I</b>	ELU5	0.001	-0.015	-0.126	-0.005	-0.006	0.000
<b>H18.6I</b>	ELS3	0.001	-0.012	-0.111	-0.004	-0.004	0.000
<b>H18.7D</b>	ELU5	0.002	-0.016	-0.127	-0.005	0.005	0.000
<b>H18.7D</b>	ELS3	0.002	-0.013	-0.104	-0.004	0.003	0.000

<b>H18.7I</b>	ELU5	0.001	-0.015	-0.113	-0.004	-0.006	0.000
<b>H18.7I</b>	ELS3	0.001	-0.012	-0.104	-0.004	-0.003	0.000
<b>H19.1D</b>	ELU5	0.002	-0.015	-0.161	-0.008	0.001	0.000
<b>H19.1D</b>	ELS3	0.001	-0.012	-0.127	-0.006	0.001	0.000
<b>H19.1I</b>	ELU5	0.001	-0.015	-0.158	-0.008	-0.003	0.000
<b>H19.1I</b>	ELS3	0.001	-0.012	-0.127	-0.006	-0.001	0.000
<b>H19.2D</b>	ELU5	0.002	-0.016	-0.156	-0.008	0.003	0.000
<b>H19.2D</b>	ELS3	0.002	-0.013	-0.123	-0.007	0.003	0.000
<b>H19.2I</b>	ELU5	0.001	-0.015	-0.150	-0.008	-0.005	0.000
<b>H19.2I</b>	ELS3	0.001	-0.012	-0.122	-0.007	-0.003	0.000
<b>H19.3D</b>	ELU5	0.002	-0.016	-0.146	-0.008	0.005	0.000
<b>H19.3D</b>	ELS3	0.001	-0.013	-0.115	-0.006	0.004	0.000
<b>H19.3I</b>	ELU5	0.001	-0.015	-0.138	-0.008	-0.006	0.000
<b>H19.3I</b>	ELS3	0.001	-0.013	-0.115	-0.006	-0.004	0.000
<b>H19.6D</b>	ELU5	0.002	-0.016	-0.122	-0.008	0.005	0.000
<b>H19.6D</b>	ELS3	0.001	-0.013	-0.099	-0.006	0.003	0.000
<b>H19.6I</b>	ELU5	0.001	-0.015	-0.112	-0.007	-0.006	0.000
<b>H19.6I</b>	ELS3	0.001	-0.013	-0.099	-0.006	-0.003	0.000
<b>H19.7D</b>	ELU5	0.002	-0.016	-0.112	-0.008	0.005	0.000
<b>H19.7D</b>	ELS3	0.002	-0.013	-0.092	-0.006	0.003	0.000
<b>H19.7I</b>	ELU5	0.001	-0.015	-0.100	-0.007	-0.006	0.000
<b>H19.7I</b>	ELS3	0.001	-0.012	-0.092	-0.006	-0.003	0.000
<b>H20.1D</b>	ELU5	0.002	-0.015	-0.137	-0.011	0.001	0.000
<b>H20.1D</b>	ELS3	0.001	-0.013	-0.108	-0.009	0.001	0.000
<b>H20.1I</b>	ELU5	0.001	-0.015	-0.134	-0.011	-0.003	0.000
<b>H20.1I</b>	ELS3	0.001	-0.013	-0.108	-0.009	-0.001	0.000
<b>H20.2D</b>	ELU5	0.002	-0.016	-0.131	-0.011	0.003	0.000
<b>H20.2D</b>	ELS3	0.002	-0.013	-0.103	-0.009	0.003	0.000
<b>H20.2I</b>	ELU5	0.001	-0.016	-0.126	-0.011	-0.004	0.000
<b>H20.2I</b>	ELS3	0.001	-0.013	-0.103	-0.009	-0.003	0.000
<b>H20.3D</b>	ELU5	0.002	-0.017	-0.121	-0.011	0.005	0.000
<b>H20.3D</b>	ELS3	0.001	-0.014	-0.096	-0.009	0.004	0.000
<b>H20.3I</b>	ELU5	0.001	-0.016	-0.115	-0.011	-0.006	0.000
<b>H20.3I</b>	ELS3	0.001	-0.013	-0.096	-0.009	-0.004	0.000
<b>H20.6D</b>	ELU5	0.002	-0.017	-0.099	-0.011	0.005	0.000
<b>H20.6D</b>	ELS3	0.001	-0.014	-0.080	-0.009	0.003	0.000
<b>H20.6I</b>	ELU5	0.001	-0.016	-0.090	-0.010	-0.006	0.000
<b>H20.6I</b>	ELS3	0.001	-0.013	-0.080	-0.009	-0.003	0.000



H20.7D	ELU5	0.002	-0.017	-0.089	-0.010	0.005	0.000
H20.7D	ELS3	0.002	-0.014	-0.074	-0.008	0.003	0.000
H20.7I	ELU5	0.001	-0.015	-0.079	-0.009	-0.005	0.000
H20.7I	ELS3	0.001	-0.013	-0.074	-0.008	-0.003	0.000
H21.1D	ELU5	0.002	-0.016	-0.106	-0.013	0.001	0.000
H21.1D	ELS3	0.001	-0.013	-0.084	-0.010	0.001	0.000
H21.1I	ELU5	0.001	-0.016	-0.104	-0.013	-0.002	0.000
H21.1I	ELS3	0.001	-0.013	-0.084	-0.010	-0.001	0.000
H21.2D	ELU5	0.002	-0.017	-0.101	-0.013	0.003	0.000
H21.2D	ELS3	0.001	-0.014	-0.080	-0.010	0.003	0.000
H21.2I	ELU5	0.001	-0.016	-0.097	-0.012	-0.004	0.000
H21.2I	ELS3	0.001	-0.013	-0.080	-0.010	-0.003	0.000
H21.3D	ELU5	0.002	-0.017	-0.092	-0.012	0.005	0.000
H21.3D	ELS3	0.001	-0.014	-0.073	-0.010	0.004	0.000
H21.3I	ELU5	0.002	-0.016	-0.087	-0.012	-0.005	0.000
H21.3I	ELS3	0.001	-0.014	-0.073	-0.010	-0.003	0.000
H21.6D	ELU5	0.002	-0.018	-0.070	-0.012	0.005	0.000
H21.6D	ELS3	0.001	-0.014	-0.057	-0.009	0.003	0.000
H21.6I	ELU5	0.002	-0.016	-0.063	-0.011	-0.005	0.000
H21.6I	ELS3	0.001	-0.014	-0.057	-0.009	-0.003	0.000
H21.7D	ELU5	0.002	-0.017	-0.060	-0.013	0.005	0.000
H21.7D	ELS3	0.002	-0.014	-0.051	-0.010	0.003	0.000
H21.7I	ELU5	0.001	-0.016	-0.053	-0.011	-0.005	0.000
H21.7I	ELS3	0.001	-0.013	-0.051	-0.010	-0.003	0.000
H22.1D	ELU5	0.002	-0.017	-0.073	-0.013	0.002	0.000
H22.1D	ELS3	0.001	-0.014	-0.057	-0.010	0.001	0.000
H22.1I	ELU5	0.002	-0.016	-0.071	-0.013	-0.002	0.000
H22.1I	ELS3	0.001	-0.014	-0.057	-0.010	-0.001	0.000
H22.2D	ELU5	0.002	-0.018	-0.067	-0.013	0.003	0.000
H22.2D	ELS3	0.001	-0.014	-0.053	-0.011	0.003	0.000
H22.2I	ELU5	0.002	-0.017	-0.065	-0.013	-0.004	0.000
H22.2I	ELS3	0.002	-0.014	-0.052	-0.011	-0.003	0.000
H22.3D	ELU5	0.002	-0.018	-0.058	-0.014	0.004	0.000
H22.3D	ELS3	0.001	-0.015	-0.046	-0.011	0.003	0.000
H22.3I	ELU5	0.002	-0.017	-0.055	-0.013	-0.005	0.000
H22.3I	ELS3	0.002	-0.014	-0.046	-0.011	-0.003	0.000
H22.6D	ELU5	0.002	-0.019	-0.037	-0.013	0.005	0.000
H22.6D	ELS3	0.002	-0.015	-0.031	-0.011	0.003	0.000

H22.6I	ELU5	0.002	-0.017	-0.034	-0.012	-0.005	0.000
H22.6I	ELS3	0.001	-0.014	-0.031	-0.010	-0.003	0.000
H22.7D	ELU5	0.002	-0.018	-0.027	-0.012	0.005	0.000
H22.7D	ELS3	0.002	-0.015	-0.024	-0.010	0.003	0.000
H22.7I	ELU5	0.001	-0.017	-0.024	-0.011	-0.005	0.000
H22.7I	ELS3	0.001	-0.014	-0.025	-0.010	-0.003	0.000
H23.1D	ELU5	0.002	-0.017	-0.043	-0.009	0.002	0.000
H23.1D	ELS3	0.001	-0.014	-0.033	-0.008	0.002	0.000
H23.1I	ELU5	0.002	-0.017	-0.042	-0.009	-0.002	0.000
H23.1I	ELS3	0.002	-0.014	-0.033	-0.008	-0.002	0.000
H23.2D	ELU5	0.002	-0.018	-0.036	-0.010	0.004	0.001
H23.2D	ELS3	0.001	-0.015	-0.028	-0.008	0.003	0.000
H23.2I	ELU5	0.002	-0.018	-0.035	-0.009	-0.004	-0.001
H23.2I	ELS3	0.002	-0.015	-0.028	-0.008	-0.003	-0.001
H23.3D	ELU5	0.001	-0.020	-0.026	-0.010	0.004	0.000
H23.3D	ELS3	0.001	-0.016	-0.021	-0.008	0.003	0.000
H23.3I	ELU5	0.003	-0.019	-0.025	-0.009	-0.004	0.001
H23.3I	ELS3	0.002	-0.016	-0.020	-0.008	-0.003	0.000
H23.6D	ELU5	0.002	-0.020	-0.008	-0.008	0.003	0.000
H23.6D	ELS3	0.001	-0.016	-0.007	-0.006	0.002	0.000
H23.6I	ELU5	0.002	-0.018	-0.007	-0.007	-0.003	0.000
H23.6I	ELS3	0.002	-0.015	-0.008	-0.006	-0.002	0.000
H23.7D	ELU5	0.002	-0.018	-0.002	-0.006	0.003	-0.001
H23.7D	ELS3	0.001	-0.015	-0.003	-0.005	0.002	-0.001
H23.7I	ELU5	0.002	-0.017	-0.001	-0.005	-0.003	0.001
H23.7I	ELS3	0.002	-0.014	-0.004	-0.005	-0.002	0.001
H24.1D	ELU5	0.002	-0.018	-0.019	-0.007	0.001	0.000
H24.1D	ELS3	0.002	-0.015	-0.014	-0.006	0.001	0.000
H24.1I	ELU5	0.002	-0.017	-0.019	-0.007	-0.002	0.000
H24.1I	ELS3	0.002	-0.014	-0.014	-0.006	-0.001	0.000
H24.2D	ELU5	0.002	-0.019	-0.014	-0.006	0.003	0.000
H24.2D	ELS3	0.002	-0.015	-0.011	-0.004	0.002	0.000
H24.2I	ELU5	0.002	-0.018	-0.014	-0.005	-0.003	0.000
H24.2I	ELS3	0.002	-0.015	-0.010	-0.004	-0.002	0.000
H24.3D	ELU5	0.002	-0.020	-0.006	-0.003	0.003	0.002
H24.3D	ELS3	0.001	-0.016	-0.005	-0.003	0.003	0.001
H24.3I	ELU5	0.003	-0.019	-0.006	-0.003	-0.003	-0.002
H24.3I	ELS3	0.002	-0.016	-0.005	-0.003	-0.002	-0.001



<b>H24.6D</b>	ELU5	0.000	-0.020	0.005	0.000	0.002	-0.002
<b>H24.6D</b>	ELS3	0.000	-0.016	0.004	0.000	0.002	-0.002
<b>H24.6I</b>	ELU5	0.004	-0.018	0.005	0.000	-0.002	0.002
<b>H24.6I</b>	ELS3	0.003	-0.015	0.003	0.000	-0.002	0.001
<b>H24.7D</b>	ELU5	0.000	-0.019	0.010	-0.001	0.003	0.001
<b>H24.7D</b>	ELS3	0.000	-0.015	0.007	-0.001	0.002	0.001
<b>H24.7I</b>	ELU5	0.004	-0.017	0.010	-0.001	-0.003	0.000
<b>H24.7I</b>	ELS3	0.003	-0.014	0.007	-0.002	-0.002	0.000



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