

APÉNDICES

ANEJO 4

APÉNDICE 2.I: PROCESO DE CÁLCULO DE LA ARMADURA ACTIVA

x	Sección	Station	Mmax	Mmin	Mmaxf	Mminf	Ab	lb	v1	v2	e0	Caso
m		m	KN	KN	KN	KN-m	m ²	m ⁴	m	m	m	
0	A	0	2,779E-11	-5,864E-11	7,458E-12	-2,565E-11	21,1198	19,162	1,2094	-1,3486	0,094447738	2
0,5	A	0,5	4341,4914	917,4835	2727,636	1569,9669	21,1198	19,162	1,2094	-1,3486	0,046048777	2
1	A	1	8173,7084	1478,4817	5090,5567	2783,5686	21,1198	19,162	1,2094	-1,3486	0	2
1	B	0	8173,7084	1478,4817	5090,5567	2783,5686	21,1198	19,162	1,2094	-1,3486	0	2
1,5	B	0,5	11630,0674	1782,0016	7187,5891	3739,6319	21,12047438	19,17299649	1,209580737	1,348865161	0,043517855	2
2	B	1	14843,7535	1926,6388	9117,3888	4536,8125	21,1224975	19,20598597	1,210122949	-	-0,08432405	2
2,5	B	1,5	17814,4201	1912,1364	10879,6989	5174,8537	21,12586938	19,26096843	1,211026635	1,350986445	0,122418587	2
3	B	2	20541,7204	1738,2378	12474,2628	5653,4985	21,13059001	19,33794388	1,212291795	-	-	2
3,5	B	2,5	23025,3077	1404,6861	13900,8236	5972,4902	21,13665939	19,43691231	1,21391843	1,355229013	0,190472682	2
4	B	3	25264,8354	911,2244	15159,1244	6131,572	21,14407753	19,55787372	1,21590654	1,358145779	0,220432241	2
4,5	B	3,5	27259,9567	257,596	16248,9085	6130,487	21,15284441	19,70082812	1,218256124	1,361592866	0,247680141	2
5	B	4	29010,325	-556,4559	17169,9191	5968,9785	21,16296005	19,86577551	1,220967182	1,365570273	0,272216382	2
5,5	B	4,5	30515,5936	-1531,1882	17921,8993	5646,7896	21,17442444	20,05271587	1,224039715	1,370078002	0,294040964	2
6	B	5	31775,4158	-2666,8577	18504,5923	5163,6636	21,18723757	20,26164923	1,227473722	1,375116052	0,313153887	2
6,5	B	5,5	32789,4448	-3963,7212	18917,7413	4519,3436	21,20139946	20,49257556	1,231269203	1,380684423	-0,32955515	2
7	B	6	33557,334	-5422,0354	19161,0896	3713,5728	21,21691011	20,74549489	1,235426159	1,386783115	0,343244755	2
7,5	B	6,5	34078,7367	-7042,0572	19234,3802	2746,0944	21,2337695	21,02040719	1,23994459	1,393412128	-0,3542227	2
8	B	7	34353,3062	-8824,0435	19137,3565	1616,6516	21,25197765	21,31731249	1,244824495	1,400571463	0,362488986	2
8,5	B	7,5	34380,6958	-10768,251	18869,7615	324,9875	21,27153454	21,63621076	1,250065874	1,408261118	0,368043614	2
9	B	8	34160,5588	-	18431,3385	-1129,1545	21,29244019	21,97710202	1,255668728	1,416481094	0,370886582	2
9,5	B	8,5	33692,5485	-	17821,8307	-2746,0314	21,31469459	22,33998627	1,261633056	1,425231391	0,371017891	2
10	B	9	32976,3182	-	17040,9812	-4525,9	21,33829774	22,7248635	1,267958859	-1,43451201	-0,36843754	2
10,5	B	9,5	32011,5213	-	16088,5332	-6469,017	21,36324964	23,13173371	1,274646136	1,444322949	0,365145531	2
11	B	10	30797,811	-22931,595	14964,23	-8575,6393	21,3895503	23,56059691	1,281694887	1,454664209	0,355141863	2
11,5	B	10,5	29334,8406	-	13667,8147	-	21,4171997	24,01145309	1,289105113	1,465535791	0,344426535	2
12	B	11	27826,3565	-	12199,0305	-	21,44619786	24,48430226	1,296876813	1,476937693	0,330999549	2

12,5	B	11,5	26588,1946	-	33121,1535	10557,6206	-	15879,1058	21,47654477	24,97914441	1,305009988	-	1,488869917	-	0,314860903	2
13	B	12	25157,3189	-	37318,8634	8743,3282	-	18642,3173	21,50824043	25,49597955	1,313504637	-	1,501332461	-	0,296010598	2
13,5	B	12,5	23533,4726	-	41739,0389	6755,8964	-	21570,3181	21,54128484	26,03480767	1,322360761	-	1,514325327	-	0,274448634	2
14	B	13	21716,399	-	46382,0267	4595,0686	-	-24663,365	21,575678	26,59562878	1,331578359	-	1,527848514	-	0,250175011	2
14,5	B	13,5	19705,8411	-	51248,1734	2260,5878	-	27921,7149	21,61141992	27,17844287	1,341157432	-	1,541902021	-	0,223189729	2
15	B	14	17501,5422	-	56337,8259	-247,8028	-	31345,6245	21,64851058	27,78324994	1,351097979	-1,55648585	-	0,193492788	2	
15,5	B	14,5	15103,2456	-	61651,3307	-2930,3599	-	34935,3507	21,68695	28,41005	1,3614	-1,5716	-	0,161084187	2	
15,5	B	14,5	15103,2456	-	61651,3307	-2930,3599	-	34935,3507	21,68695	28,41005	1,3614	-1,5716	-	0,161084187	2	
16	B	15	11700,6943	-	67189,0345	-6237,3405	-	38691,1503	21,72673817	29,05884304	1,372063496	-	1,587244471	-	0,125963928	2
16,5	B	15,5	8103,6315	-	72951,2841	-9719,0011	-	-42613,28	21,76787509	29,72962907	1,383088466	-	1,603419263	-	0,088132009	2
17	B	16	4311,8005	-	78938,4261	-13375,5988	-	46701,9968	21,81036076	30,42240809	1,394474911	-	1,620124376	-	0,047588432	2
17,5	B	16,5	324,9445	-	85150,8073	-17207,3903	-	50957,5573	21,85419518	31,13718008	1,40622283	-1,63735981	-	0,004333195	2	
18	B	17	-3857,1934	-	91588,7743	-21214,6324	-	55380,2185	21,89937836	31,87394507	1,418332224	-	1,655125565	-	0,041633701	2
18,5	B	17,5	-7904,6349	-	98252,6738	-25397,582	-	59970,2371	21,94591029	32,63270303	1,430803092	-	1,673421641	-	0,090312256	2
19	B	18	-11978,2533	-	105142,853	-29756,4958	-	64727,8699	21,99379096	33,41345398	1,443635434	-	1,692248038	-	0,14170247	2
19,5	B	18,5	-16231,0152	-	112259,657	-34291,6306	-	69653,3738	22,04302039	34,21619792	1,456829251	-	1,711604756	-	0,195804343	2
20	B	19	-20663,1775	-	119603,435	-39003,2433	-	74747,0056	22,09359857	35,04093484	1,470384542	-	1,731491795	-	0,252617876	2
20,5	B	19,5	-25274,9969	-	127174,531	-43891,5906	-	-80009,022	22,14552551	35,88766474	1,484301308	-	1,751909156	-	0,309958126	2
21	B	20	-30066,7304	-	134973,294	-48956,9294	-	85439,6799	22,19880119	36,75638763	1,498579548	-	1,772856837	-	0,365640154	2
21,5	B	20,5	-35038,6346	-	143000,069	-54199,5166	-	-91039,236	22,25342562	37,64710351	1,513219263	-	1,794334839	-	0,41966396	2
22	B	21	-40190,9664	-	151255,204	-59619,6088	-	96807,9473	22,30939881	38,55981237	1,528220452	-	1,816343163	-	0,472029543	2
22,5	B	21,5	-45523,9826	-	159739,044	-65217,4629	-	-102746,07	22,36672075	39,49451421	1,543583115	-	1,838881807	-	0,522736903	2
23	B	22	-51037,9401	-	168451,938	-70993,3358	-	108853,862	22,42539144	40,45120904	1,559307253	-	1,861950773	-	0,571786041	2
23,5	B	22,5	-56733,0956	-	177394,231	-76947,4841	-	-115131,58	22,48541088	41,42989685	1,575392866	-	1,885550059	-	0,619176957	2
24	B	23	-62609,7059	-	186566,27	-83080,1648	-	-121579,48	22,54677907	42,43057765	1,591839952	-	1,909679667	-	0,664909649	2

24,5	B	23,5	-68668,0279	-	-89391,6347	-	22,60949602	43,45325143	1,608648514	-	1,934339596	0,70898412	2
25	B	24	-74908,3183	205600,973	-95882,1505	134986,853	22,67356171	44,49791819	1,625818549	1,959529845	0,751400368	2	
25,5	B	24,5	-81167,3476	-	-102430,868	141946,841	22,73897616	45,56457794	1,643350059	-	1,985250416	0,792158393	2
26	B	25	-87399,875	-	-109004,342	149078,038	22,80573936	46,65323068	1,661243044	2,011501308	0,831258196	2	
26,5	B	25,5	-93815,1414	-	-115585,64	156380,702	22,87385131	47,7638764	1,679497503	2,038282521	0,868699776	2	
27	B	26	-100413,403	-	-122290,309	163855,089	22,94331201	48,8965151	1,698113436	-	2,065594055	0,904483133	2
27,5	B	26,5	-107194,918	-	-129166,958	171501,456	23,01412146	50,05114679	1,717090844	-2,09343591	0,938608268	2	
28	B	27	-114002,856	268647,761	-136215,843	179436,419	23,08627967	51,22777146	1,736429727	-	2,121808086	0,971075181	2
28,5	B	27,5	-120827,575	-	-143437,222	187667,569	23,15978662	52,42638912	1,756130083	-	2,150710583	1,001883871	2
29	B	28	-127825,044	293040,224	-150831,352	-196079,82	23,23464233	53,64699976	1,776191914	2,180143401	1,031034339	2	
29,5	B	28,5	-134995,521	305628,894	-158398,489	-	23,31084679	54,88960339	1,79661522	-2,21010654	1,058526584	2	
30	B	29	-142339,261	-318479,65	-166138,89	213448,649	23,3884	56,1542	1,8174	-2,2406	1,084360606	2	
30	C	0	-142339,261	-318479,65	-166138,89	213448,649	23,3884	56,1542	1,8174	-2,2406	1,084360606	2	
30,5	C	0,5	-150030,251	-331827,38	-174226,54	222579,471	23,3884	56,1542	1,8174	-2,2406	1,087390152	2	
31	C	1	-158242,305	-345906,72	-182835,255	-	23,3884	56,1542	1,8174	-2,2406	1,0884	2	
31	D	0	-158242,305	-345906,72	-182835,255	-	23,3884	56,1542	1,8174	-2,2406	1,0884	2	
31,5	D	0,5	-147890,816	-329699,09	-172421,403	221084,135	23,3884	56,1542	1,8174	-2,2406	1,087390152	2	
32	D	1	-138060,392	314223,082	-162528,615	-	23,3884	56,1542	1,8174	-2,2406	1,084360606	2	
32	E	0	-138060,392	314223,082	-162528,615	210457,978	23,3884	56,1542	1,8174	-2,2406	1,084360606	2	
32,5	E	0,5	-128577,216	-299244,04	-152983,077	200187,421	23,31084679	54,88960339	1,79661522	-2,21010654	1,058526584	2	
33	E	1	-119267,305	-	-143610,803	190098,477	23,23464233	53,64699976	1,776191914	-	2,180143401	1,031034339	2
33,5	E	1,5	-110130,401	-	-134411,536	180190,891	23,15978662	52,42638912	1,756130083	-	2,150710583	1,001883871	2
34	E	2	-101166,248	258850,172	-125385,02	170464,405	23,08627967	51,22777146	1,736429727	-	2,121808086	0,971075181	2
34,5	E	2,5	-92374,5883	-	-116530,997	160918,763	23,01412146	50,05114679	1,717090844	-2,09343591	0,938608268	2	
35	E	3	-83755,1653	233320,731	-107849,211	151553,708	22,94331201	48,8965151	1,698113436	-	2,065594055	0,904483133	2

35,5	E	3,5	-75307,7224	-	-99339,4056	-	22,87385131	47,7638764	1,679497503	-	2,038282521	0,868699776	2
36	E	4	-67032,0026	-	-91001,3229	-	22,80573936	46,65323068	1,661243044	-	2,011501308	0,831258196	2
36,5	E	4,5	-58927,7493	-	-82834,7067	-	22,73897616	45,56457794	1,643350059	-	1,985250416	0,792158393	2
37	E	5	-50994,7055	-185180,42	-74839,3	115894,219	22,67356171	44,49791819	1,625818549	-	1,959529845	0,751400368	2
37,5	E	5,5	-43232,6145	-	-67014,846	107428,246	22,60949602	43,45325143	1,608648514	-	1,934339596	0,70898412	2
38	E	6	-35641,2195	-	-59361,0881	99141,3181	22,54677907	42,43057765	1,591833952	-	1,909679667	0,664909649	2
38,5	E	6,5	-28220,2636	-	-51877,7693	91033,1799	22,48541088	41,42989685	1,575392866	-	1,885550059	0,619176957	2
39	E	7	-20969,49	-140913,05	-44564,6328	83103,5741	22,42539144	40,45120904	1,559307253	-	1,861950773	0,571786041	2
39,5	E	7,5	-13888,6442	-	-37421,4218	75352,2437	22,36672075	39,49451421	1,543583115	-	1,838881807	0,522736903	2
40	E	8	-6977,4627	-	-30447,8796	67778,9321	22,30939881	38,55981237	1,528220452	-	1,816343163	0,472029543	2
40,5	E	8,5	-235,6953	-	-23643,7493	60383,3824	22,25342562	37,64710351	1,513219263	-	1,794334839	0,41966396	2
41	E	9	6336,9169	100496,431	-17008,7741	53165,3378	22,19880119	36,75638763	1,498579548	-	1,772856837	0,365640154	2
41,5	E	9,5	12740,6309	-	-10542,6972	46353,4713	22,14552551	35,88766474	1,484301308	-	1,751909156	0,309958126	2
42	E	10	18975,7035	-	-4245,2617	40056,0358	22,09359857	35,04093484	1,470384542	-	1,731491795	0,252617876	2
42,5	E	10,5	25431,2092	-	1883,7891	-33926,985	22,04302039	34,21619792	1,456829251	-	1,711604756	0,1952139	2
43	E	11	31741,2155	-	7844,712	27966,0621	21,99379096	33,41345398	1,443635434	-	1,692248038	0,139340697	2
43,5	E	11,5	37872,0782	-	13637,7639	22173,0102	21,94591029	32,63270303	1,430803092	-	1,673421641	0,084998267	2
44	E	12	45343,77	-	19263,2015	16547,5725	21,89937836	31,87394507	1,418332224	-	1,655125565	0,03218661	2
44,5	E	12,5	53027,4441	-	24721,2817	11089,4923	21,85419518	31,13718008	1,406222283	-1,63735981	0,019094275	-	2
45	E	13	60474,2599	-	30012,2613	-5798,5127	21,81036076	30,42240809	1,394474911	-	1,620124376	0,068844387	2
45,5	E	13,5	67684,564	-	35136,3971	-674,3769	21,76787509	29,72962907	1,383088466	-	1,603419263	0,117063727	2
46	E	14	74982,0708	-	40344,8009	4283,1719	21,72673817	29,05884304	1,372063496	1,587244471	0,163752294	-	2
46,5	E	14,5	82059,6473	-	45587,4501	9074,3905	21,68695	28,41005	1,3614	-1,5716	0,208910088	-	2
47	E	15	88901,7522	-	50655,6759	13699,5358	21,64851058	27,78324994	1,351097979	-1,55648585	0,252537109	-	2
47,5	E	15,5	95508,7322	-16389,921	55549,7352	18158,8645	21,61141992	27,17844287	1,341157432	-	1,541902021	0,294633358	2

48	E	16	101880,934	12033,7891	60269,8847	22452,6334	21,575678	26,59562878	1,331578359	-	-	1,527848514	0,335198834	2
48,5	E	16,5	108018,7044	-7842,9602	64816,3813	26581,0994	21,54128484	26,03480767	1,322360761	-	-	1,514325327	0,374233537	2
49	E	17	113936,9679	-3831,7554	69200,2803	30544,5192	21,50824043	25,49597955	1,313504637	-	-	1,501332461	0,411737468	2
49,5	E	17,5	119633,7729	2,3807	73420,1358	34343,1498	21,47654477	24,97914441	1,305009988	-	-	1,488869917	0,447710626	2
50	E	18	125097,1864	3671,9842	77467,1088	37977,2478	21,44619786	24,48430226	1,296876813	-	-	1,476937693	0,482153011	2
50,5	E	18,5	130327,5553	7177,312	81341,4561	41447,0701	21,4171997	24,01145309	1,289105113	-	-	1,465535791	0,515064624	2
51	E	19	135325,2261	10518,621	85043,4345	44752,8735	21,3895503	23,56059691	1,281694887	-	-	1,454664209	0,546445464	2
51,5	E	19,5	140090,5456	13696,1678	88573,3008	47894,9149	21,36324964	23,13173371	1,274646136	-	-	1,444322949	0,576295531	2
52	E	20	144623,8605	16710,2094	91931,3118	50873,4509	21,33829774	22,7248635	1,267958859	-1,43451201	-	0,604614826	-	2
52,5	E	20,5	148925,5175	19561,0025	95117,7244	53688,7385	21,31469459	22,33998627	1,261633056	-	-	1,425231391	0,631403348	2
53	E	21	152995,8633	22248,804	98132,7954	56341,0345	21,29244019	21,97710202	1,255668728	-	-	1,416481094	0,656661097	2
53,5	E	21,5	156835,2445	24773,8706	100976,7815	58830,5956	21,27153454	21,63621076	1,250065874	-	-	1,408261118	0,680388073	2
54	E	22	160444,0079	27136,4592	103649,9395	61157,6787	21,25197765	21,31731249	1,244824495	-	-	1,400571463	0,702584277	2
54,5	E	22,5	163822,5001	29336,8266	106152,5264	63322,5406	21,2337695	21,02040719	1,23994459	-	-	1,393412128	0,723249708	2
55	E	23	166971,0679	31375,2296	108484,7988	65325,438	21,21691011	20,74549489	1,235426159	-	-	1,386783115	0,742384367	2
55,5	E	23,5	169890,0579	33251,925	110647,0137	67166,6279	21,20139946	20,49257556	1,231269203	-	-	1,380684423	0,759988253	2
56	E	24	172579,8169	34967,1695	112639,4277	68846,3669	21,18723757	20,26164923	1,227473722	-	-	1,375116052	0,776061366	2
56,5	E	24,5	175040,6915	36521,2202	114462,2978	70364,912	21,17442444	20,05271587	1,224039715	-	-	1,370078002	0,790603706	1
57	E	25	177273,0284	37914,3336	116115,8807	71722,52	21,16296005	19,86577551	1,220967182	-	-	1,365570273	0,803615274	1
57,5	E	25,5	179277,1743	39146,7667	117600,4333	72919,4475	21,15284441	19,70082812	1,218256124	-	-	1,361592866	0,815096069	1
58	E	26	181053,476	40218,7762	118916,2123	73955,9515	21,14407753	19,55787372	1,21590654	-	-	1,358145779	0,825046092	1
58,5	E	26,5	182602,28	41130,619	120063,4745	74832,2888	21,13665939	19,43691231	1,21391843	-	-	1,355229013	0,833465341	1
59	E	27	183923,9332	41882,5519	121042,4769	75548,7162	21,13059001	19,33794388	1,212291795	-	-	1,352842568	0,840355819	1
59,5	E	27,5	185084,9292	42474,8316	121853,4761	76105,4904	21,12586938	19,26096843	1,211026635	-	-	1,350986445	0,845711523	1
60	E	28	186096,8426	42907,7151	122496,729	76502,8683	21,1224975	19,20598597	1,210122949	-	-	1,349660642	0,849538455	1

60,5	E	28,5	186865,7363	43181,459	122972,4924	76741,1068	21,12047438	19,17299649	1,209580737	-	1,348865161	0,851834614	1
61	E	29	187391,9572	43296,3203	123281,0231	76820,4625	21,1198	19,162	1,2094	-1,3486	-0,8526	1	
61	F	0	187391,9572	43296,3203	123281,0231	76820,4625	21,1198	19,162	1,2094	-1,3486	-0,8526	1	
61,5	F	0,5	186865,7363	43181,4591	122972,4924	76741,1068	21,12047438	19,17299649	1,209580737	-	1,348865161	0,851834614	1
62	F	1	186096,8425	42907,7152	122496,729	76502,8684	21,1224975	19,20598597	1,2101222949	-	1,349660642	0,849538455	1
62,5	F	1,5	185084,9292	42474,8318	121853,476	76105,4905	21,12586938	19,26096843	1,211026635	-	1,350986445	0,845711523	1
63	F	2	183923,933	41882,5521	121042,4768	75548,7163	21,13059001	19,33794388	1,212291795	-	1,352842568	0,840353819	1
63,5	F	2,5	182602,2798	41130,6192	120063,4745	74832,2889	21,13665939	19,43691231	1,21391843	-	1,355229013	0,833465341	1
64	F	3	181053,4757	40218,7765	118916,2122	73955,9517	21,14407753	19,55787372	1,21590654	-	1,358145779	0,825046092	1
64,5	F	3,5	179277,1741	39146,767	117600,4332	72919,4477	21,15284441	19,70082812	1,218256124	-	1,361592866	0,815096069	1
65	F	4	177273,0281	37914,334	116115,8806	71722,5201	21,16296005	19,86577551	1,220967182	-	1,365570273	0,803615274	1
65,5	F	4,5	175040,6912	36521,2206	114462,2977	70364,9122	21,17442444	20,05271587	1,224039715	-	1,370078002	0,790603706	1
66	F	5	172579,8165	34967,1701	112639,4276	68846,3672	21,18723757	20,26164923	1,227473722	-	1,375116052	0,776061366	2
66,5	F	5,5	169890,0575	33251,9255	110647,0135	67166,6281	21,20139946	20,49257556	1,231269203	-	1,380684423	0,759988253	2
67	F	6	166971,0675	31375,2302	108484,7987	65325,4383	21,21691011	20,74549489	1,235426159	-	1,386783115	0,742384367	2
67,5	F	6,5	163822,4997	29336,8273	106152,5262	63322,5408	21,2337695	21,02040719	1,23994459	-	1,393412128	0,723249708	2
68	F	7	160444,0074	27136,46	103649,9394	61157,679	21,25197765	21,31731249	1,244824495	-	1,400571463	0,702584277	2
68,5	F	7,5	156835,244	24773,8714	100976,7813	58830,5959	21,27153454	21,63621076	1,250065874	-	1,408261118	0,680388073	2
69	F	8	152995,8627	22248,8048	98132,7952	56341,0348	21,29244019	21,97710202	1,255668728	-	1,416481094	0,656661097	2
69,5	F	8,5	148925,5169	19561,0034	95117,7242	53688,7389	21,31469459	22,33998627	1,261633056	-	1,425231391	0,631403348	2
70	F	9	144623,8599	16710,2103	91931,3116	50873,4513	21,33829774	22,7248635	1,267958859	-1,43451201	0,604614826	2	
70,5	F	9,5	140090,5449	13696,1688	88573,3006	47894,9153	21,36324964	23,13173371	1,274646136	-	1,444322949	0,576295531	2
71	F	10	135325,2254	10518,622	85043,4342	44752,8739	21,3895503	23,56059691	1,281694887	-	1,454664209	0,546445464	2
71,5	F	10,5	130327,5545	7177,3131	81341,4558	41447,0705	21,4171997	24,01145309	1,289105113	-	1,465535791	0,515064624	2
72	F	11	125097,1856	3671,9853	77467,1085	37977,2482	21,44619786	24,48430226	1,296876813	-	1,476937693	0,482153011	2
72,5	F	11,5	119633,772	2,3818	73420,1355	34343,1502	21,47654477	24,97914441	1,305009988	-	1,488869917	0,447710626	2

73	F	12	113936,9671	-3831,7541	69200,28	30544,5197	21,50824043	25,49597955	1,313504637	-	-	0,411737468	2
73,5	F	12,5	108018,7035	-7842,959	64816,381	26581,0999	21,54128484	26,03480767	1,322360761	-	-	0,374233537	2
74	F	13	101880,9331	12033,7878	60269,8844	22452,6339	21,575678	26,59562878	1,331578359	1,527848514	0,335198834	-	2
74,5	F	13,5	95508,7312	16389,9196	55549,7349	18158,865	21,61141992	27,17844287	1,341157432	-	-	0,294633358	2
75	F	14	88901,7511	20911,6112	50655,6756	13699,5364	21,64851058	27,78324994	1,351097979	-1,55648585	0,252537109	-	2
75,5	F	14,5	82059,6462	25599,1193	45587,4497	9074,3911	21,68695	28,41005	1,3614	-1,5716	0,208910088	-	2
76	F	15	74982,0697	30452,7008	40344,8005	4283,1725	21,72673817	29,05884304	1,372063496	1,587244471	0,163752294	-	2
76,5	F	15,5	67684,5629	35472,6125	35136,3966	-674,3763	21,76787509	29,72962907	1,383088466	1,603419263	0,117063727	-	2
77	F	16	60474,2587	40659,1112	30012,2608	-5798,512	21,81036076	30,42240809	1,394474911	1,620124376	0,068844387	-	2
77,5	F	16,5	53027,4429	46012,4537	24721,2812	11089,4916	21,85419518	31,13718008	1,406222283	-1,63735981	0,019094275	-	2
78	F	17	45343,7688	51532,8968	19263,201	16547,5718	21,89937836	31,87394507	1,418332224	1,655125565	0,03218661	-	2
78,5	F	17,5	37872,0769	57669,8847	13637,7634	22173,0095	21,94591029	32,63270303	1,430803092	-	1,673421641	0,084998267	2
79	F	18	31741,2142	65552,8676	7844,7115	27966,0614	21,99379096	33,41345398	1,443635434	-	1,692248038	0,139340697	2
79,5	F	18,5	25431,2079	73662,4764	1883,7885	33926,9843	22,04302039	34,21619792	1,456829251	-	1,711604756	0,1952139	2
80	F	19	18975,7021	82032,9587	-4245,2623	-40056,035	22,09359857	35,04093484	1,470384542	-	1,731491795	0,252617876	2
80,5	F	19,5	12740,6295	91030,8507	-10542,6977	46353,4705	22,14552551	35,88766474	1,484301308	-	1,751909156	0,30958126	2
81	F	20	6336,9155	100496,429	-17008,7747	53165,3371	22,19880119	36,75638763	1,498579548	1,772856837	0,365640154	-	2
81,5	F	20,5	-235,6968	110240,789	-23643,7499	60383,3817	22,25342562	37,64710351	1,513219263	-	1,794334839	0,41966396	2
82	F	21	-6977,4643	120224,781	-30447,8802	67778,9314	22,30939881	38,55981237	1,528220452	-	1,816343163	0,472029543	2
82,5	F	21,5	-13888,6436	130448,752	-37421,4225	-75352,243	22,36672075	39,49451421	1,543583115	-	1,838881807	0,522736903	2
83	F	22	-20969,4916	140913,047	-44564,6334	83103,5733	22,42539144	40,45120904	1,559307253	-	1,861950773	0,571786041	2
83,5	F	22,5	-28220,2652	151618,015	-51877,7699	91033,1792	22,48541088	41,42989685	1,575392866	-	1,885550059	0,619176957	2
84	F	23	-35641,2211	162564,002	-59361,0887	99141,3174	22,54677907	42,43057765	1,591839952	-	1,909679667	0,664909649	2
84,5	F	23,5	-43232,6162	173751,354	-67014,8467	107428,245	22,60949602	43,45325143	1,608648514	-	1,934339596	0,70898412	2
85	F	24	-50994,7072	185180,418	-74839,3007	115894,218	22,67356171	44,49791819	1,625818549	-	1,959529845	0,751400368	2

85,5	F	24,5	-58927,7511	-196851,54	-82834,7074	-	22,73897616	45,56457794	1,643350059	-	1,985250416	0,792158393	2
86	F	25	-67032,0044	208765,069	-91001,3237	-133364,33	22,80573936	46,65323068	1,661243044	-	2,011501308	0,831258196	2
86,5	F	25,5	-75307,7242	220921,349	-99339,4064	142368,982	22,87385131	47,7638764	1,679497503	2,038282521	0,868699776	2	
87	F	26	-83755,1672	233320,728	-107849,212	151553,707	22,94331201	48,8965151	1,698113436	2,065594055	0,904483133	2	
87,5	F	26,5	-92374,5902	245963,553	-116530,998	160918,762	23,01412146	50,05114679	1,717090844	-2,09343591	0,938608268	2	
88	F	27	-101166,25	258850,169	-125385,021	170464,404	23,08627967	51,22777146	1,736429727	-	2,121808086	0,971075181	2
88,5	F	27,5	-110130,403	271980,925	-134411,537	-180190,89	23,15978662	52,42638912	1,756130083	2,150710583	1,001883871	2	
89	F	28	-119267,307	285356,166	-143610,804	190098,476	23,23464233	53,64699976	1,776191914	-	2,180143401	1,031034339	2
89,5	F	28,5	-128577,219	299244,038	-152983,078	-200187,42	23,31084679	54,88960339	1,79661522	-2,21010654	1,058526584	2	
90	F	29	-138060,394	-314223,08	-162528,616	-	23,3884	56,1542	1,8174	-2,2406	1,084360606	2	
90	G	0	-138060,394	-314223,08	-162528,616	210457,977	23,3884	56,1542	1,8174	-2,2406	1,084360606	2	
90,5	G	0,5	-147890,819	-329699,09	-172421,404	221084,134	23,3884	56,1542	1,8174	-2,2406	1,087390152	2	
91	G	1	-158242,307	-345906,72	-182835,256	232239,705	23,3884	56,1542	1,8174	-2,2406	1,0884	2	
91	H	0	-158242,307	-345906,72	-182835,256	232239,705	23,3884	56,1542	1,8174	-2,2406	1,0884	2	
91,5	H	0,5	-150030,253	-331827,37	-174226,541	-222579,47	23,3884	56,1542	1,8174	-2,2406	1,087390152	2	
92	H	1	-142339,263	-318479,65	-166138,891	213448,648	23,3884	56,1542	1,8174	-2,2406	1,084360606	2	
92	I	0	-142339,263	-318479,65	-166138,891	213448,648	23,3884	56,1542	1,8174	-2,2406	1,084360606	2	
92,5	I	0,5	-134995,523	305628,892	-158398,49	204673,427	23,31084679	54,88960339	1,79661522	-2,21010654	1,058526584	2	
93	I	1	-127825,046	293040,222	-150831,353	196079,819	23,23464233	53,64699976	1,776191914	-	2,180143401	1,031034339	2
93,5	I	1,5	-120827,577	280713,294	-143437,223	187667,568	23,15978662	52,42638912	1,756130083	-	2,150710583	1,001883871	2
94	I	2	-114002,858	-268647,76	-136215,844	179436,418	23,08627967	51,22777146	1,736429727	-	2,121808086	0,971075181	2
94,5	I	2,5	-107194,92	257232,557	-129166,958	171501,455	23,01412146	50,05114679	1,717090844	-2,09343591	0,938608268	2	
95	I	3	-100413,405	246442,587	-122290,31	163855,088	22,94331201	48,8965151	1,698113436	-	2,065594055	0,904483133	2
95,5	I	3,5	-93815,1432	235884,791	-115585,641	156380,701	22,87385131	47,7638764	1,679497503	-	2,038282521	0,868699776	2
96	I	4	-87399,8768	-225558,82	-109004,343	149078,037	22,80573936	46,65323068	1,661243044	-	2,011501308	0,831258196	2
96,5	I	4,5	-81167,3493	-215464,33	-102430,869	-141946,84	22,73897616	45,56457794	1,643350059	-	1,985250416	0,792158393	2

97	I	5	-74908,3201	-	-95882,1511	-	134986,853	22,67356171	44,49791819	1,625818549	-	1,959529845	0,751400368	2
97,5	I	5,5	-68668,0296	-195968,4	-89391,6353	-	128197,818	22,60949602	43,45325143	1,608648514	-	1,934339596	0,70898412	2
98	I	6	-62609,7076	-	-83080,1654	-	121579,479	22,54677907	42,43057765	1,591839952	-	1,909679667	0,664909649	2
98,5	I	6,5	-56733,0972	-	-76947,4847	-	115131,579	22,48541088	41,42989685	1,575392866	-	1,885550059	0,619176957	2
99	I	7	-51037,9417	-	-70993,3363	-	108853,862	22,42539144	40,45120904	1,559307253	-	1,861950773	0,571786041	2
99,5	I	7,5	-45523,9842	-	-65217,4634	-	102746,07	22,36672075	39,49451421	1,543583115	-	1,838881807	0,522736903	2
100	I	8	-40190,968	-	-59619,6093	-	96807,9466	22,30939881	38,55981237	1,528220452	-	1,816343163	0,472029543	2
100,5	I	8,5	-35038,6361	-	-54199,5171	-	91039,2353	22,25342562	37,64710351	1,513219263	-	1,794334839	0,41966396	2
101	I	9	-30066,7318	-	-48956,9299	-	85439,6792	22,19880119	36,75638763	1,498579548	-	1,772856837	0,365640154	2
101,5	I	9,5	-25274,9984	-127174,53	-43891,5911	-	80009,0213	22,14552551	35,88766474	1,484301308	-	1,751909156	0,309958126	2
102	I	10	-20663,1789	-	-39003,2437	-	74747,0049	22,09359857	35,04093484	1,470384542	-	1,731491795	0,252617876	2
102,5	I	10,5	-16231,0166	-	-34291,631	-	69653,3732	22,04302039	34,21619792	1,456829251	-	1,711604756	0,195804343	2
103	I	11	-11978,2546	-	-29756,4962	-	64727,8693	21,99379096	33,41345398	1,443635434	-	1,692248038	0,14170247	2
103,5	I	11,5	-7904,6362	-	-25397,5824	-	59970,2365	21,94591029	32,63270303	1,430803092	-	1,673421641	0,090312256	2
104	I	12	-3857,1941	-	-21214,6329	-	55380,2179	21,89937836	31,87394507	1,418332224	-	1,655125565	0,041633701	2
104,5	I	12,5	324,9438	-	-17207,3907	-	50957,5568	21,85419518	31,13718008	1,40622283	-1,63735981	0,004333195	-	2
105	I	13	4311,7998	-	-13375,5992	-	46701,9962	21,81036076	30,42240809	1,394474911	-	1,620124376	0,047588432	2
105,5	I	13,5	8103,6308	-	-9719,0015	-	42613,2795	21,76787509	29,72962907	1,383088466	-	1,603419263	0,088132009	2
106	I	14	11700,6936	-	-6237,3408	-	38691,1498	21,72673817	29,05884304	1,372063496	-	1,587244471	0,125963928	2
106,5	I	14,5	15103,2449	-	-2930,3603	-	34935,3502	21,68695	28,41005	1,3614	-1,5716	0,161084187	-	2
106,5	I	14,5	15103,2449	-	-2930,3603	-	34935,3502	21,68695	28,41005	1,3614	-1,5716	0,161084187	-	2
107	I	15	17501,5416	-56337,825	-247,8032	-	31345,624	21,64851058	27,78324994	1,351097979	-1,55648585	0,193492788	-	2
107,5	I	15,5	19705,8405	-	2260,5874	-	27921,7144	21,61141992	27,17844287	1,341157432	-	1,541902021	0,222189729	2
108	I	16	21716,3984	-	4595,0682	-	24663,3646	21,575678	26,59562878	1,331578359	-	1,527848514	0,250175011	2
108,5	I	16,5	23533,472	-	6755,8961	-	21570,3177	21,54128484	26,03480767	1,322360761	-	1,514325327	0,274448634	2

109	I	17	25157,3183	-	8743,3279	18642,3169	21,50824043	25,49597955	1,313504637	-	1,501332461	0,296010598	2
109,5	I	17,5	26588,1941	-	10557,6203	15879,1054	21,47654477	24,97914441	1,305009988	1,488869917	0,314860903	2	
110	I	18	27826,356	-	12199,0302	13280,4265	21,44619786	24,48430226	1,296876813	1,476937693	0,330999549	2	
110,5	I	18,5	29334,8402	-	13667,8144	10846,0232	21,4171997	24,01145309	1,289105113	1,465535791	0,344426535	2	
111	I	19	30797,8105	-	14964,2298	-8575,6389	21,3895503	23,56059691	1,281694887	1,454664209	0,355141863	2	
111,5	I	19,5	32011,5209	-	16088,533	-6469,0166	21,36324964	23,13173371	1,274646136	1,444322949	0,363145531	2	
112	I	20	32976,3178	-	17040,981	-4525,8996	21,33829774	22,7248635	1,267958859	-1,43451201	-0,36843754	2	
112,5	I	20,5	33692,5481	-	17821,8305	-2746,0311	21,31469459	22,33998627	1,261633056	1,425231391	0,371017891	2	
113	I	21	34160,5584	-	18431,3383	-1129,1542	21,29244019	21,97710202	1,255668728	1,416481094	0,370886582	2	
113,5	I	21,5	34380,6954	-	18869,7613	324,9878	21,27153454	21,63621076	1,250065874	1,408261118	0,368043614	2	
114	I	22	34353,3058	-8824,043	19137,3563	1616,6518	21,25197765	21,31731249	1,244824495	1,400571463	0,362488986	2	
114,5	I	22,5	34078,7364	-7042,0568	19234,3801	2746,0946	21,2337695	21,02040719	1,23994459	1,393412128	-0,3542227	2	
115	I	23	33557,3337	-5422,035	19161,0894	3713,573	21,21691011	20,74549489	1,235426159	1,386783115	0,343244755	2	
115,5	I	23,5	32789,4445	-3963,7208	18917,7412	4519,3438	21,20139946	20,49257556	1,231269203	1,380684423	-0,32955515	2	
116	I	24	31775,4155	-2666,8574	18504,5921	5163,6638	21,18723757	20,26164923	1,227473722	1,375116052	0,313153887	2	
116,5	I	24,5	30515,5934	-1531,1879	17921,8991	5646,7898	21,17442444	20,05271587	1,224039715	1,370078002	0,294040964	2	
117	I	25	29010,3248	-556,4556	17169,9189	5968,9787	21,16296005	19,86577551	1,220967182	1,365570273	0,272216382	2	
117,5	I	25,5	27259,9566	257,5963	16248,9084	6130,4871	21,15284441	19,70082812	1,218256124	1,361592866	0,247680141	2	
118	I	26	25264,8352	911,2247	15159,1243	6131,5721	21,14407753	19,55787372	1,21590654	1,358145779	0,220432241	2	
118,5	I	26,5	23025,3076	1404,6863	13900,8235	5972,4903	21,13665939	19,43691231	1,21391843	1,355229013	0,190472682	2	
119	I	27	20541,7203	1738,238	12474,2627	5653,4986	21,13059001	19,33794388	1,212291795	1,352842568	0,157801464	2	
119,5	I	27,5	17814,42	1912,1366	10879,6989	5174,8537	21,12586938	19,26096843	1,211026635	1,350986445	0,122418587	2	
120	I	28	14843,7535	1926,6389	9117,3887	4536,8126	21,1224975	19,20598597	1,210122949	1,349660642	-0,08432405	2	
120,5	I	28,5	11630,0674	1782,0017	7187,589	3739,632	21,12047438	19,17299649	1,209580737	1,348865161	0,043517855	2	
121	I	29	8173,7084	1478,4818	5090,5567	2783,5686	21,1198	19,162	1,2094	-1,3486	-2,22045E-15	2	

121	J	0	8173,7084	1478,4818	5090,5567	2783,5686	21,1198	19,162	1,2094	-1,3486	-2,22045E-15	2
121,5	J	0,5	4341,4914	917,4235	2727,636	1569,9669	21,1198	19,162	1,2094	-1,3486	0,046048777	2
122	J	1	2,412E-11	-3,481E-11	9,935E-12	-1,308E-11	21,1198	19,162	1,2094	-1,3486	0,094447738	2

Tabla 1. Características mecánicas y esfuerzos.

Cond. 1			Cond. 2			Cond. 3			Cond. 4		
Pksup	<=	562746,6793	Pksup	>=	1,28959E-11	Pkinf	>=	3,03674E-11	Pkinf	<=	737067,9998
Pksup	<=	591499,8338	Pksup	>=	4352,218162	Pkinf	>=	-1971,686848	Pkinf	<=	681611,455
Pksup	<=	622698,7282	Pksup	>=	7566,541177	Pkinf	>=	-3710,401086	Pkinf	<=	635791,5971
Pksup	<=	622698,7282	Pksup	>=	7566,541177	Pkinf	>=	-3710,401086	Pkinf	<=	635791,5971
Pksup	<=	656165,6279	Pksup	>=	10031,21797	Pkinf	>=	-5289,560599	Pkinf	<=	597618,7869
Pksup	<=	691526,2363	Pksup	>=	12027,83064	Pkinf	>=	-6801,208317	Pkinf	<=	565725,3985
Pksup	<=	728586,2766	Pksup	>=	13646,07487	Pkinf	>=	-8208,401362	Pkinf	<=	538860,6948
Pksup	<=	767046,3793	Pksup	>=	14952,2026	Pkinf	>=	-9468,226631	Pkinf	<=	516097,0858
Pksup	<=	806486,0628	Pksup	>=	15996,03133	Pkinf	>=	-10532,37637	Pkinf	<=	496733,0832
Pksup	<=	846352,5507	Pksup	>=	16815,55739	Pkinf	>=	-11348,42596	Pkinf	<=	480229,3814
Pksup	<=	885958,0237	Pksup	>=	17440,07291	Pkinf	>=	-11861,95722	Pkinf	<=	466165,6043
Pksup	<=	924489,1443	Pksup	>=	17892,31908	Pkinf	>=	-12019,58414	Pkinf	<=	454210,3444
Pksup	<=	961032,153	Pksup	>=	18190,00249	Pkinf	>=	-11772,79257	Pkinf	<=	444099,9863
Pksup	<=	994615,1792	Pksup	>=	18346,87906	Pkinf	>=	-11082,31595	Pkinf	<=	435623,4788
Pksup	<=	1024266,62	Pksup	>=	18373,5373	Pkinf	>=	-9922,553825	Pkinf	<=	428611,2225
Pksup	<=	1049084,841	Pksup	>=	18277,9679	Pkinf	>=	-8285,382427	Pkinf	<=	422926,6667
Pksup	<=	1068310,948	Pksup	>=	18065,97744	Pkinf	>=	-6182,653182	Pkinf	<=	418461,2025
Pksup	<=	1081394,034	Pksup	>=	17741,48674	Pkinf	>=	-3646,801068	Pkinf	<=	415127,5981
Pksup	<=	1088038,345	Pksup	>=	17306,73844	Pkinf	>=	-729,2788293	Pkinf	<=	412858,5918
Pksup	<=	1088224,422	Pksup	>=	16762,43455	Pkinf	>=	2503,059079	Pkinf	<=	411603,3744
Pksup	<=	1082201,127	Pksup	>=	16107,81347	Pkinf	>=	5973,102642	Pkinf	<=	411325,9772

Pksup	<=	1070451,024	Pksup	>=	15340,67525	Pkinf	>=	9599,358577	Pkinf	<=	412004,0353
Pksup	<=	1053636,26	Pksup	>=	14457,3583	Pkinf	>=	13301,68322	Pkinf	<=	413628,0447
Pksup	<=	1032534,633	Pksup	>=	13452,66775	Pkinf	>=	17006,13776	Pkinf	<=	416201,0604
Pksup	<=	1007975,557	Pksup	>=	12319,75259	Pkinf	>=	20648,49809	Pkinf	<=	419738,8187
Pksup	<=	980412,1201	Pksup	>=	11049,9266	Pkinf	>=	24176,26821	Pkinf	<=	424085,4172
Pksup	<=	950123,9165	Pksup	>=	9632,422614	Pkinf	>=	27549,30473	Pkinf	<=	428991,5695
Pksup	<=	918705,4364	Pksup	>=	8054,066533	Pkinf	>=	30739,34	Pkinf	<=	434927,3687
Pksup	<=	886770,5718	Pksup	>=	6298,850762	Pkinf	>=	33728,74948	Pkinf	<=	441962,5218
Pksup	<=	854828,264	Pksup	>=	4347,379628	Pkinf	>=	36508,90666	Pkinf	<=	450186,1835
Pksup	<=	823285,4667	Pksup	>=	2176,145959	Pkinf	>=	39078,39978	Pkinf	<=	459710,5773
Pksup	<=	792455,5592	Pksup	>=	-243,4142326	Pkinf	>=	41441,30827	Pkinf	<=	470675,8254
Pksup	<=	762569,758	Pksup	>=	-2946,169375	Pkinf	>=	43605,66099	Pkinf	<=	483256,3976
Pksup	<=	762569,758	Pksup	>=	-2946,169375	Pkinf	>=	43605,66099	Pkinf	<=	483256,3976
Pksup	<=	734743,9199	Pksup	>=	-6439,543168	Pkinf	>=	45582,13241	Pkinf	<=	497669,7713
Pksup	<=	708020,9394	Pksup	>=	-10340,35413	Pkinf	>=	47382,992	Pkinf	<=	514188,175
Pksup	<=	682468,8616	Pksup	>=	-14721,96267	Pkinf	>=	49021,29249	Pkinf	<=	533154,121
Pksup	<=	658119,7808	Pksup	>=	-19676,93097	Pkinf	>=	50510,26586	Pkinf	<=	555005,8431
Pksup	<=	634978,2234	Pksup	>=	-25323,67113	Pkinf	>=	51862,89522	Pkinf	<=	580303,3011
Pksup	<=	612735,7741	Pksup	>=	-31816,07011	Pkinf	>=	53091,62415	Pkinf	<=	609780,3569
Pksup	<=	591543,3653	Pksup	>=	-39357,77116	Pkinf	>=	54208,17474	Pkinf	<=	644410,5186
Pksup	<=	571500,3237	Pksup	>=	-48223,97072	Pkinf	>=	55223,44545	Pkinf	<=	685512,4306
Pksup	<=	552556,2343	Pksup	>=	-58795,78461	Pkinf	>=	56147,46731	Pkinf	<=	734915,2966
Pksup	<=	535490,1086	Pksup	>=	-71362,12452	Pkinf	>=	57078,23231	Pkinf	<=	792404,8999
Pksup	<=	520822,6281	Pksup	>=	-86142,82636	Pkinf	>=	58100,82903	Pkinf	<=	856929,2848
Pksup	<=	508183,1069	Pksup	>=	-103600,0136	Pkinf	>=	59207,08665	Pkinf	<=	929794,8604
Pksup	<=	497276,0293	Pksup	>=	-124321,7748	Pkinf	>=	60390,77338	Pkinf	<=	1012650,983
Pksup	<=	487863,0967	Pksup	>=	-149066,7901	Pkinf	>=	61647,14692	Pkinf	<=	1107609,833
Pksup	<=	479750,1967	Pksup	>=	-178829,1387	Pkinf	>=	62972,63116	Pkinf	<=	1217420,222
Pksup	<=	472777,7887	Pksup	>=	-214934,7558	Pkinf	>=	64364,57567	Pkinf	<=	1345725,984
Pksup	<=	466813,7055	Pksup	>=	-259189,1047	Pkinf	>=	65821,07842	Pkinf	<=	1497461,099
Pksup	<=	461747,6918	Pksup	>=	-314110,7608	Pkinf	>=	67340,85302	Pkinf	<=	1679474,177
Pksup	<=	457487,2104	Pksup	>=	-383315,3422	Pkinf	>=	68923,126	Pkinf	<=	1901554,168
Pksup	<=	453872,9106	Pksup	>=	-471618,4395	Pkinf	>=	70567,5612	Pkinf	<=	2178193,99
Pksup	<=	450822,6176	Pksup	>=	-586886,9132	Pkinf	>=	72274,1965	Pkinf	<=	2531795,783
Pksup	<=	448385,6108	Pksup	>=	-742064,2196	Pkinf	>=	74043,40143	Pkinf	<=	2998909,051
Pksup	<=	446512,886	Pksup	>=	-960854,6321	Pkinf	>=	75875,83942	Pkinf	<=	3643476,357
Pksup	<=	445162,5417	Pksup	>=	-1288335,901	Pkinf	>=	77772,44231	Pkinf	<=	4588385,166
Pksup	<=	444228,8599	Pksup	>=	-1823089,165	Pkinf	>=	79786,12843	Pkinf	<=	6098417,972
Pksup	<=	443680,6483	Pksup	>=	-2832289,824	Pkinf	>=	81918,6703	Pkinf	<=	8897006,384
Pksup	<=	443561,9093	Pksup	>=	-5380112,642	Pkinf	>=	84119,65789	Pkinf	<=	15879186,5
Pksup	<=	443849,9186	Pksup	>=	-22994692,07	Pkinf	>=	86391,18499	Pkinf	<=	63793883,56
Pksup	<=	444525,347	Pksup	>=	12981254,48	Pkinf	>=	88735,54569	Pkinf	>=	-33862449,45
Pksup	<=	444525,347	Pksup	>=	12981254,48	Pkinf	>=	88735,54569	Pkinf	>=	-33862449,45
Pksup	<=	447159,4936	Pksup	>=	11007548,48	Pkinf	>=	92415,04748	Pkinf	>=	-26537696,89
Pksup	<=	450380,3006	Pksup	>=	10858642,65	Pkinf	>=	96385,56625	Pkinf	>=	-24109916,42
Pksup	<=	450380,3006	Pksup	>=	10858642,65	Pkinf	>=	96385,56625	Pkinf	>=	-24109916,42

Pksup	<=	446271,1997	Pksup	<=	10893500,8	Pkinf	>=	91794,18363	Pkinf	>=	-26672161,22
Pksup	<=	442746,5221	Pksup	<=	12699165,81	Pkinf	>=	87492,25451	Pkinf	>=	-34195036,2
Pksup	<=	442746,5221	Pksup	<=	12699165,81	Pkinf	>=	87492,25451	Pkinf	>=	-34195036,2
Pksup	<=	441140,7981	Pksup	>=	-22208537,28	Pkinf	>=	84497,67405	Pkinf	<=	64720772,15
Pksup	<=	439890,5776	Pksup	>=	-5122557,655	Pkinf	>=	81553,61857	Pkinf	<=	16153274,62
Pksup	<=	439011,2306	Pksup	>=	-2654069,985	Pkinf	>=	78655,02958	Pkinf	<=	9069434,41
Pksup	<=	438521,0818	Pksup	>=	-1678131,313	Pkinf	>=	75796,73617	Pkinf	<=	6229547,2
Pksup	<=	438441,8218	Pksup	>=	-1162302,414	Pkinf	>=	72973,40503	Pkinf	<=	4700784,353
Pksup	<=	438799,0104	Pksup	>=	-847388,6018	Pkinf	>=	70179,47921	Pkinf	<=	3746576,906
Pksup	<=	439622,6865	Pksup	>=	-637762,7748	Pkinf	>=	67409,10883	Pkinf	<=	3094974,913
Pksup	<=	440948,114	Pksup	>=	-489957,4138	Pkinf	>=	64656,06868	Pkinf	<=	2622214,499
Pksup	<=	442816,6997	Pksup	>=	-381392,6004	Pkinf	>=	61913,65988	Pkinf	<=	2263892,122
Pksup	<=	445277,1254	Pksup	>=	-299190,7434	Pkinf	>=	59174,59131	Pkinf	<=	1983190,961
Pksup	<=	448386,759	Pksup	>=	-235481,5899	Pkinf	>=	56430,83307	Pkinf	<=	1757542,033
Pksup	<=	452213,4221	Pksup	>=	-185191,5835	Pkinf	>=	53673,43629	Pkinf	<=	1572342,099
Pksup	<=	456837,6242	Pksup	>=	-144908,3853	Pkinf	>=	50892,30944	Pkinf	<=	1417725,792
Pksup	<=	462355,4127	Pksup	>=	-112256,3803	Pkinf	>=	48075,93065	Pkinf	<=	1286789,489
Pksup	<=	468882,0447	Pksup	>=	-85533,70492	Pkinf	>=	45210,98314	Pkinf	<=	1174558,306
Pksup	<=	476556,7678	Pksup	>=	-63491,43355	Pkinf	>=	42281,88122	Pkinf	<=	1077357,161
Pksup	<=	485549,1226	Pksup	>=	-45193,99625	Pkinf	>=	39270,14671	Pkinf	<=	992412,7925
Pksup	<=	496067,3611	Pksup	>=	-29928,0182	Pkinf	>=	36153,57883	Pkinf	<=	917593,5148
Pksup	<=	508369,8566	Pksup	>=	-17141,0801	Pkinf	>=	33068,44825	Pkinf	<=	851169,9079
Pksup	<=	522780,8238	Pksup	>=	-6399,557354	Pkinf	>=	30088,76333	Pkinf	<=	791551,2408
Pksup	<=	538721,3535	Pksup	>=	2646,95556	Pkinf	>=	26911,00764	Pkinf	<=	739177,4854
Pksup	<=	556029,0551	Pksup	>=	10343,58692	Pkinf	>=	23467,382	Pkinf	<=	694604,8407
Pksup	<=	574914,3388	Pksup	>=	16971,32844	Pkinf	>=	19722,54018	Pkinf	<=	656250,6215
Pksup	<=	594158,6975	Pksup	>=	22737,85746	Pkinf	>=	15634,92213	Pkinf	<=	621113,3296
Pksup	<=	614876,4614	Pksup	>=	27799,93807	Pkinf	>=	11155,37173	Pkinf	<=	589805,542
Pksup	<=	637746,4021	Pksup	>=	32278,07873	Pkinf	>=	6225,3739	Pkinf	<=	562133,6836
Pksup	<=	663103,1643	Pksup	>=	36266,39987	Pkinf	>=	774,7848949	Pkinf	<=	537517,3991
Pksup	<=	690952,1819	Pksup	>=	40088,70589	Pkinf	>=	-5281,122553	Pkinf	<=	515486,1613
Pksup	<=	722102,196	Pksup	>=	43730,65572	Pkinf	>=	-12045,55109	Pkinf	<=	495669,3825
Pksup	<=	757164,0933	Pksup	>=	47030,84258	Pkinf	>=	-19645,37134	Pkinf	<=	477764,9223
Pksup	<=	796873,6985	Pksup	>=	50033,67201	Pkinf	>=	-28238,1484	Pkinf	<=	461525,3631
Pksup	<=	842155,0798	Pksup	>=	52775,81701	Pkinf	>=	-38021,80253	Pkinf	<=	446746,3244
Pksup	<=	894183,5786	Pksup	>=	55287,8015	Pkinf	>=	-49248,12472	Pkinf	<=	433257,6541
Pksup	<=	954446,0353	Pksup	>=	57604,1978	Pkinf	>=	-62242,06108	Pkinf	<=	420904,5701
Pksup	<=	1024927,098	Pksup	>=	59744,59176	Pkinf	>=	-77429,84854	Pkinf	<=	409569,4239
Pksup	<=	1108304,043	Pksup	>=	61719,62651	Pkinf	>=	-95381,11023	Pkinf	<=	399160,4713
Pksup	<=	1208201,288	Pksup	>=	63544,98866	Pkinf	>=	-116873,7001	Pkinf	<=	389590,6698
Pksup	<=	1329694,261	Pksup	>=	65234,11027	Pkinf	>=	-142997,0076	Pkinf	<=	380785,1052
Pksup	<=	1480106,876	Pksup	>=	66798,53878	Pkinf	>=	-175323,1972	Pkinf	<=	372679,9466
Pksup	<=	1670397,453	Pksup	>=	68248,23648	Pkinf	>=	-216204,8011	Pkinf	<=	365219,7933
Pksup	<=	1917709,823	Pksup	>=	69591,82487	Pkinf	>=	-269322,5242	Pkinf	<=	358356,8274
Pksup	<=	2250417,317	Pksup	>=	70836,78513	Pkinf	>=	-340768,3479	Pkinf	<=	352049,6092
Pksup	<=	2719051,671	Pksup	>=	71989,62404	Pkinf	>=	-441392,335	Pkinf	<=	346262,1657

Pksup	<=	3423055,252	Pksup	>=	73056,01204	Pkinf	>=	-592547,2588	Pkinf	<=	340963,2351
Pksup	<=	4588572,092	Pksup	>=	74040,89867	Pkinf	>=	-842793,0633	Pkinf	<=	336125,6359
Pksup	<=	6863804,25	Pksup	>=	74948,6091	Pkinf	>=	-1331320,308	Pkinf	<=	331725,7393
Pksup	<=	13161470,77	Pksup	>=	75782,92647	Pkinf	>=	-2683591,391	Pkinf	<=	327743,0263
Pksup	<=	106485258	Pksup	>=	76547,16066	Pkinf	>=	-22723438,92	Pkinf	<=	324159,7137
Pkinf	>=	-18706798,11	Pkinf	>=	77244,2077	Pksup	<=	4159833,073	Pksup	<=	320960,4398
Pkinf	>=	-8933677,805	Pkinf	>=	77876,59935	Pksup	<=	2061318,857	Pksup	<=	318131,9978
Pkinf	>=	-6045109,442	Pkinf	>=	78446,54608	Pksup	<=	1441188,413	Pksup	<=	315663,1127
Pkinf	>=	-4688012,796	Pkinf	>=	78955,97307	Pksup	<=	1149950,12	Pksup	<=	313544,2529
Pkinf	>=	-3921229,713	Pkinf	>=	79406,55112	Pksup	<=	985509,6584	Pksup	<=	311767,4737
Pkinf	>=	-3447889,221	Pkinf	>=	79799,72272	Pksup	<=	884125,657	Pksup	<=	310326,2881
Pkinf	>=	-3145139,35	Pkinf	>=	80136,72324	Pksup	<=	819580,0346	Pksup	<=	309215,562
Pkinf	>=	-2954891,213	Pkinf	>=	80418,5993	Pksup	<=	779411,7296	Pksup	<=	308431,4318
Pkinf	>=	-2848645,12	Pkinf	>=	80646,2229	Pksup	<=	757313,8758	Pksup	<=	307971,2425
Pkinf	>=	-2812052,075	Pkinf	>=	80820,30268	Pksup	<=	750250,587	Pksup	<=	307833,5044
Pkinf	>=	-2812052,075	Pkinf	>=	80820,30268	Pksup	<=	750250,587	Pksup	<=	307833,5044
Pkinf	>=	-2848645,12	Pkinf	>=	80646,2229	Pksup	<=	757313,8758	Pksup	<=	307971,2426
Pkinf	>=	-2954891,214	Pkinf	>=	80418,5993	Pksup	<=	779411,7306	Pksup	<=	308431,4319
Pkinf	>=	-3145139,35	Pkinf	>=	80136,72317	Pksup	<=	819580,0357	Pksup	<=	309215,5621
Pkinf	>=	-3447889,223	Pkinf	>=	79799,72265	Pksup	<=	884125,6582	Pksup	<=	310326,2883
Pkinf	>=	-3921229,715	Pkinf	>=	79406,55112	Pksup	<=	985509,6597	Pksup	<=	311767,4739
Pkinf	>=	-4688012,801	Pkinf	>=	78955,973	Pksup	<=	1149950,123	Pksup	<=	313544,2531
Pkinf	>=	-6045109,446	Pkinf	>=	78446,54602	Pksup	<=	1441188,417	Pksup	<=	315663,1129
Pkinf	>=	-8933677,813	Pkinf	>=	77876,59929	Pksup	<=	2061318,86	Pksup	<=	318131,998
Pkinf	>=	-18706798,13	Pkinf	>=	77244,20764	Pksup	<=	4159833,085	Pksup	<=	320960,44
Pksup	<=	106485258,1	Pksup	>=	76547,16059	Pkinf	>=	-22723439,02	Pkinf	<=	324159,7141
Pksup	<=	13161470,78	Pksup	>=	75782,92633	Pkinf	>=	-2683591,399	Pkinf	<=	327743,0267
Pksup	<=	6863804,258	Pksup	>=	74948,60903	Pkinf	>=	-1331320,314	Pkinf	<=	331725,7398
Pksup	<=	4588572,097	Pksup	>=	74040,89853	Pkinf	>=	-842793,0659	Pkinf	<=	336125,6364
Pksup	<=	3423055,257	Pksup	>=	73056,01197	Pkinf	>=	-592547,2617	Pkinf	<=	340963,2357
Pksup	<=	2719051,675	Pksup	>=	71989,6239	Pkinf	>=	-441392,3373	Pkinf	<=	346262,1663
Pksup	<=	2250417,32	Pksup	>=	70836,78499	Pkinf	>=	-340768,3498	Pkinf	<=	352049,6098
Pksup	<=	1917709,826	Pksup	>=	69591,82472	Pkinf	>=	-269322,5262	Pkinf	<=	358356,8281
Pksup	<=	1670397,455	Pksup	>=	68248,23633	Pkinf	>=	-216204,8028	Pkinf	<=	365219,794
Pksup	<=	1480106,879	Pksup	>=	66798,53863	Pkinf	>=	-175323,1986	Pkinf	<=	372679,9474
Pksup	<=	1329694,263	Pksup	>=	65234,11004	Pkinf	>=	-142997,0089	Pkinf	<=	380785,106
Pksup	<=	1208201,29	Pksup	>=	63544,98842	Pkinf	>=	-116873,7012	Pkinf	<=	389590,5707
Pksup	<=	1108304,045	Pksup	>=	61719,62627	Pkinf	>=	-95381,11123	Pkinf	<=	399160,4722
Pksup	<=	1024927,1	Pksup	>=	59744,59152	Pkinf	>=	-77429,84945	Pkinf	<=	409569,4248
Pksup	<=	954446,0369	Pksup	>=	57604,19755	Pkinf	>=	-62242,0621	Pkinf	<=	420904,5712
Pksup	<=	894183,5803	Pksup	>=	55287,80124	Pkinf	>=	-49248,12564	Pkinf	<=	433257,6551
Pksup	<=	842155,0813	Pksup	>=	52775,81675	Pkinf	>=	-38021,80337	Pkinf	<=	446746,3255
Pksup	<=	796873,7	Pksup	>=	50033,67174	Pkinf	>=	-28238,14918	Pkinf	<=	461523,3644
Pksup	<=	757164,0949	Pksup	>=	47030,8423	Pkinf	>=	-19645,3722	Pkinf	<=	477764,9236
Pksup	<=	722102,1974	Pksup	>=	43730,65534	Pkinf	>=	-12045,55189	Pkinf	<=	495663,3839
Pksup	<=	690952,1833	Pksup	>=	40088,7055	Pkinf	>=	-5281,123293	Pkinf	<=	515486,1629

Pksup	<=	663103,1656	Pksup	>=	36266,39935	Pkinf	>=	774,7842055	Pkinf	<=	537517,4008
Pksup	<=	637746,4034	Pksup	>=	32278,07819	Pkinf	>=	6225,373148	Pkinf	<=	562135,6853
Pksup	<=	614876,4626	Pksup	>=	27799,93751	Pkinf	>=	11155,37103	Pkinf	<=	589805,5439
Pksup	<=	594158,6986	Pksup	>=	22737,85687	Pkinf	>=	15634,92147	Pkinf	<=	621113,3317
Pksup	<=	574914,34	Pksup	>=	16971,32782	Pkinf	>=	19722,53955	Pkinf	<=	656250,6236
Pksup	<=	556029,0562	Pksup	>=	10343,58626	Pkinf	>=	23467,38141	Pkinf	<=	694604,8431
Pksup	<=	538721,3546	Pksup	>=	2646,954717	Pkinf	>=	26911,00708	Pkinf	<=	739177,4881
Pksup	<=	522780,8248	Pksup	>=	-6399,558259	Pkinf	>=	30088,76272	Pkinf	<=	791551,2439
Pksup	<=	508369,8576	Pksup	>=	-17141,08092	Pkinf	>=	33068,44768	Pkinf	<=	851169,9111
Pksup	<=	496067,362	Pksup	>=	-29928,01925	Pkinf	>=	36153,57835	Pkinf	<=	917593,5183
Pksup	<=	485549,1235	Pksup	>=	-45193,9974	Pkinf	>=	39270,14626	Pkinf	<=	992412,7963
Pksup	<=	476556,7688	Pksup	>=	-63491,4348	Pkinf	>=	42281,88078	Pkinf	<=	1077357,165
Pksup	<=	468882,0457	Pksup	>=	-85533,70652	Pkinf	>=	45210,98272	Pkinf	<=	1174558,31
Pksup	<=	462355,4136	Pksup	>=	-112256,3818	Pkinf	>=	48075,93018	Pkinf	<=	1286789,496
Pksup	<=	456837,6251	Pksup	>=	-144908,387	Pkinf	>=	50892,30905	Pkinf	<=	1417725,8
Pksup	<=	452213,423	Pksup	>=	-185191,5854	Pkinf	>=	53673,43591	Pkinf	<=	1572342,105
Pksup	<=	448386,7599	Pksup	>=	-235481,5924	Pkinf	>=	56430,83255	Pkinf	<=	1757542,04
Pksup	<=	445277,1263	Pksup	>=	-299190,7462	Pkinf	>=	59174,5908	Pkinf	<=	1983190,969
Pksup	<=	442816,7006	Pksup	>=	-381392,6036	Pkinf	>=	61913,65939	Pkinf	<=	2263892,135
Pksup	<=	440948,1149	Pksup	>=	-489957,4181	Pkinf	>=	64656,0682	Pkinf	<=	2622214,51
Pksup	<=	439622,6873	Pksup	>=	-637762,7799	Pkinf	>=	67409,10835	Pkinf	<=	3094974,926
Pksup	<=	438799,0113	Pksup	>=	-847388,6097	Pkinf	>=	70179,47875	Pkinf	<=	3746576,93
Pksup	<=	438441,8227	Pksup	>=	-1162302,424	Pkinf	>=	72973,40457	Pkinf	<=	4700784,373
Pksup	<=	438521,0827	Pksup	>=	-1678131,326	Pkinf	>=	75796,73573	Pkinf	<=	6229547,24
Pksup	<=	439011,2315	Pksup	>=	-2654070,005	Pkinf	>=	78655,02914	Pkinf	<=	9069434,469
Pksup	<=	439890,5784	Pksup	>=	-5122557,691	Pkinf	>=	81553,61814	Pkinf	<=	16153274,72
Pksup	<=	441140,7994	Pksup	>=	-22208537,42	Pkinf	>=	84497,67362	Pkinf	<=	64720772,44
Pksup	<=	442746,5229	Pksup	>=	12699165,89	Pkinf	>=	87492,25409	Pkinf	>=	-34195036,35
Pksup	<=	442746,5229	Pksup	>=	12699165,89	Pkinf	>=	87492,25409	Pkinf	>=	-34195036,35
Pksup	<=	446271,2009	Pksup	>=	10893500,86	Pkinf	>=	91794,18321	Pkinf	>=	-26672161,22
Pksup	<=	450380,3015	Pksup	>=	10858642,71	Pkinf	>=	96385,56542	Pkinf	>=	-24109916,42
Pksup	<=	450380,3015	Pksup	>=	10858642,71	Pkinf	>=	96385,56542	Pkinf	>=	-24109916,42
Pksup	<=	447159,4944	Pksup	>=	11007548,55	Pkinf	>=	92415,04706	Pkinf	>=	-26537697,52
Pksup	<=	444525,3478	Pksup	>=	12981254,56	Pkinf	>=	88735,54527	Pkinf	>=	-33862449,45
Pksup	<=	444525,3478	Pksup	>=	12981254,56	Pkinf	>=	88735,54527	Pkinf	>=	-33862449,45
Pksup	<=	443849,9194	Pksup	>=	-22994692,22	Pkinf	>=	86391,18499	Pkinf	<=	63793883,85
Pksup	<=	443561,9102	Pksup	>=	-5380112,678	Pkinf	>=	84119,65746	Pkinf	<=	15879186,57
Pksup	<=	443680,6492	Pksup	>=	-2832289,844	Pkinf	>=	81918,66986	Pkinf	<=	8897006,424
Pksup	<=	444228,8608	Pksup	>=	-1823089,179	Pkinf	>=	79786,12799	Pkinf	<=	6098417,985
Pksup	<=	445162,5426	Pksup	>=	-1288335,901	Pkinf	>=	77772,44185	Pkinf	<=	4588385,176
Pksup	<=	446512,8869	Pksup	>=	-960854,64	Pkinf	>=	75875,83896	Pkinf	<=	3643476,372
Pksup	<=	448385,6116	Pksup	>=	-742064,226	Pkinf	>=	74043,40096	Pkinf	<=	2998909,057
Pksup	<=	450822,6184	Pksup	>=	-586886,9186	Pkinf	>=	72274,19601	Pkinf	<=	2531795,793
Pksup	<=	453872,9115	Pksup	>=	-471618,4441	Pkinf	>=	70567,5607	Pkinf	<=	2178193,994
Pksup	<=	457487,2113	Pksup	>=	-383315,3446	Pkinf	>=	68923,126	Pkinf	<=	1901554,172
Pksup	<=	461747,6927	Pksup	>=	-314110,7629	Pkinf	>=	67340,8525	Pkinf	<=	1679474,184

Pksup	<=	466813,7064	Pksup	>=	-259189,1066	Pkinf	>=	65821,07788	Pkinf	<=	1497461,105
Pksup	<=	472777,7896	Pksup	>=	-214934,7575	Pkinf	>=	64364,57511	Pkinf	<=	1345725,99
Pksup	<=	479750,1976	Pksup	>=	-178829,1399	Pkinf	>=	62972,63116	Pkinf	<=	1217420,227
Pksup	<=	487863,0976	Pksup	>=	-149066,7912	Pkinf	>=	61647,14692	Pkinf	<=	1107609,835
Pksup	<=	497276,0303	Pksup	>=	-124321,7758	Pkinf	>=	60390,77294	Pkinf	<=	1012650,987
Pksup	<=	508183,1079	Pksup	>=	-103600,0146	Pkinf	>=	59207,0862	Pkinf	<=	929794,8623
Pksup	<=	520822,629	Pksup	>=	-86142,82724	Pkinf	>=	58100,82856	Pkinf	<=	856929,2883
Pksup	<=	535490,1096	Pksup	>=	-71362,12534	Pkinf	>=	57078,23181	Pkinf	<=	792404,9015
Pksup	<=	552556,2353	Pksup	>=	-58795,78521	Pkinf	>=	56147,46679	Pkinf	<=	734915,2996
Pksup	<=	571500,3248	Pksup	>=	-48223,97128	Pkinf	>=	55223,44498	Pkinf	<=	685512,4321
Pksup	<=	591543,3664	Pksup	>=	-39357,77168	Pkinf	>=	54208,17424	Pkinf	<=	644410,5212
Pksup	<=	612735,7752	Pksup	>=	-31816,07061	Pkinf	>=	53091,62362	Pkinf	<=	609780,3583
Pksup	<=	634978,2241	Pksup	>=	-25323,67173	Pkinf	>=	51862,89465	Pkinf	<=	580303,3024
Pksup	<=	658119,7815	Pksup	>=	-19676,93143	Pkinf	>=	50510,26537	Pkinf	<=	555005,8442
Pksup	<=	682468,8623	Pksup	>=	-14721,96311	Pkinf	>=	49021,29186	Pkinf	<=	533154,7133
Pksup	<=	708020,9402	Pksup	>=	-10340,35455	Pkinf	>=	47382,99145	Pkinf	<=	514188,176
Pksup	<=	734743,9207	Pksup	>=	-6439,543478	Pkinf	>=	45582,13182	Pkinf	<=	497669,7724
Pksup	<=	762569,7589	Pksup	>=	-2946,169778	Pkinf	>=	43605,66037	Pkinf	<=	483256,3986
Pksup	<=	762569,7589	Pksup	>=	-2946,169778	Pkinf	>=	43605,66037	Pkinf	<=	483256,3986
Pksup	<=	792455,56	Pksup	>=	-243,4146256	Pkinf	>=	41441,30761	Pkinf	<=	470675,8263
Pksup	<=	823285,4675	Pksup	>=	2176,145574	Pkinf	>=	39078,39908	Pkinf	<=	459710,5781
Pksup	<=	854828,2649	Pksup	>=	4347,379249	Pkinf	>=	36508,90607	Pkinf	<=	450186,1842
Pksup	<=	886770,5727	Pksup	>=	6298,850482	Pkinf	>=	33728,74886	Pkinf	<=	441962,5225
Pksup	<=	918705,4374	Pksup	>=	8054,066257	Pkinf	>=	30739,33934	Pkinf	<=	434927,3694
Pksup	<=	950123,9174	Pksup	>=	9632,42234	Pkinf	>=	27549,30404	Pkinf	<=	428991,5702
Pksup	<=	980412,121	Pksup	>=	11049,92633	Pkinf	>=	24176,26748	Pkinf	<=	424085,4178
Pksup	<=	1007975,557	Pksup	>=	12319,75232	Pkinf	>=	20648,49733	Pkinf	<=	419738,8193
Pksup	<=	1032534,634	Pksup	>=	13452,66757	Pkinf	>=	17006,13697	Pkinf	<=	416201,061
Pksup	<=	1053636,26	Pksup	>=	14457,35812	Pkinf	>=	13301,6824	Pkinf	<=	413628,0452
Pksup	<=	1070451,025	Pksup	>=	15340,67507	Pkinf	>=	9599,357728	Pkinf	<=	412004,0358
Pksup	<=	1082201,128	Pksup	>=	16107,81329	Pkinf	>=	5973,10199	Pkinf	<=	411325,9777
Pksup	<=	1088224,423	Pksup	>=	16762,43436	Pkinf	>=	2503,058414	Pkinf	<=	411603,375
Pksup	<=	1088038,346	Pksup	>=	17306,73825	Pkinf	>=	-729,2795025	Pkinf	<=	412858,5922
Pksup	<=	1081394,034	Pksup	>=	17741,48655	Pkinf	>=	-3646,801519	Pkinf	<=	415127,5986
Pksup	<=	1068310,948	Pksup	>=	18065,97734	Pkinf	>=	-6182,653632	Pkinf	<=	418461,2028
Pksup	<=	1049084,842	Pksup	>=	18277,96771	Pkinf	>=	-8285,382873	Pkinf	<=	422926,8671
Pksup	<=	1024266,62	Pksup	>=	18373,5372	Pkinf	>=	-9922,554264	Pkinf	<=	428611,2229
Pksup	<=	994615,1798	Pksup	>=	18346,87886	Pkinf	>=	-11082,31638	Pkinf	<=	435623,4791
Pksup	<=	961032,1534	Pksup	>=	18190,00228	Pkinf	>=	-11772,79299	Pkinf	<=	444009,9866
Pksup	<=	924489,1447	Pksup	>=	17892,31888	Pkinf	>=	-12019,58454	Pkinf	<=	454210,9447
Pksup	<=	885958,0239	Pksup	>=	17440,0728	Pkinf	>=	-11861,95742	Pkinf	<=	466165,6047
Pksup	<=	846352,5511	Pksup	>=	16815,55728	Pkinf	>=	-11348,42615	Pkinf	<=	480229,3817
Pksup	<=	806486,0629	Pksup	>=	15996,03122	Pkinf	>=	-10532,37654	Pkinf	<=	496733,0834
Pksup	<=	767046,3795	Pksup	>=	14952,20248	Pkinf	>=	-9468,226798	Pkinf	<=	516097,086
Pksup	<=	728586,2768	Pksup	>=	13646,07487	Pkinf	>=	-8208,401362	Pkinf	<=	538860,695
Pksup	<=	691526,2363	Pksup	>=	12027,83051	Pkinf	>=	-6801,208467	Pkinf	<=	565725,3986

Pksup	<=	656165,6279	Pksup	>=	10031,21783	Pkinf	>=	-5289,56074	Pkinf	<=	597618,7871
Pksup	<=	622698,7282	Pksup	>=	7566,541177	Pkinf	>=	-3710,401086	Pkinf	<=	635791,5973
Pksup	<=	622698,7282	Pksup	>=	7566,541177	Pkinf	>=	-3710,401086	Pkinf	<=	635791,5973
Pksup	<=	591499,8338	Pksup	>=	4352,218162	Pkinf	>=	-1971,686848	Pkinf	<=	681611,455
Pksup	<=	562746,6793	Pksup	>=	1,71789E-11	Pkinf	>=	1,54856E-11	Pkinf	<=	737067,9998

Tabla 2. Resolución de inecuaciones para los valores de tesado característicos

F _{maxRd} (kN)		10741,5	Por fila	53707,5
Min Pmax Por cable	9385,249096	Por fila	46926,24548	
Nº cables	15	Max e0	0,539	
Min Pmax	<=Pmax<=	Max Pmax		
140778,7364		295819,4388	Canto	
4,286E-11	<=Pmax<=	529704,6365		2,558
4097,397125	<=Pmax<=	556867,7001		2,558
7124,938124	<=Pmax<=	586356,4084		2,558
7124,938124	<=Pmax<=	586356,4084		2,558
9447,908306	<=Pmax<=	618009,9672		2,558445898
11331,28233	<=Pmax<=	651478,9949		2,559783591
12859,36553	<=Pmax<=	686582,5769		2,56201308
14094,38307	<=Pmax<=	723040,33		2,565134364
15083,08148	<=Pmax<=	702231,5832		2,569147444
15861,07415	<=Pmax<=	679027,9487		2,574052319
16455,77782	<=Pmax<=	659274,2734		2,579848989
16888,44158	<=Pmax<=	642506,5219		2,586537455
17175,57597	<=Pmax<=	628355,4172		2,594117717
17329,9749	<=Pmax<=	616525,1401		2,602589774
17361,45409	<=Pmax<=	606777,792		2,611953627
17277,38835	<=Pmax<=	598921,9308		2,622209275
17083,10165	<=Pmax<=	592804,0408		2,633356718

16782,14856	<=Pmax<=	588302,1601	2,645395957
16376,50981	<=Pmax<=	585321,1284	2,658326992
15866,72172	<=Pmax<=	583789,0787	2,672149822
15251,94845	<=Pmax<=	583654,9151	2,686864447
14530,00519	<=Pmax<=	584886,5967	2,702470868
18892,19415	<=Pmax<=	587470,1115	2,718969084
24165,2054	<=Pmax<=	591409,0696	2,736359096
29355,09465	<=Pmax<=	596724,89	2,754640904
34386,92973	<=Pmax<=	603194,6417	2,773814507
39203,09565	<=Pmax<=	610461,7775	2,793879905
43762,66685	<=Pmax<=	619192,9151	2,814837099
48039,70688	<=Pmax<=	629485,241	2,836686088
52020,97824	<=Pmax<=	641463,3522	2,859426873
55703,44935	<=Pmax<=	655284,3771	2,883059453
59091,87851	<=Pmax<=	671144,8033	2,907583829
62196,64855	<=Pmax<=	689289,5931	2,933
62196,64855	<=Pmax<=	689289,5931	2,933
65031,93282	<=Pmax<=	697449,647	2,959307967
67614,21531	<=Pmax<=	672114,0286	2,986507729
69961,14576	<=Pmax<=	647873,6163	3,014599287
72090,68689	<=Pmax<=	624760,6334	3,04358264
74020,55951	<=Pmax<=	602780,9988	3,073457788
75767,69129	<=Pmax<=	581643,4264	3,104224732
77348,08162	<=Pmax<=	561492,5649	3,135883472
78776,62807	<=Pmax<=	542423,9202	3,168434007
80067,0586	<=Pmax<=	524390,7149	3,201876338
81360,34757	<=Pmax<=	508136,4966	3,236210464
82779,40395	<=Pmax<=	494157,2103	3,271436385
84312,56152	<=Pmax<=	482098,8912	3,307554102
85950,93129	<=Pmax<=	471679,4623	3,344563615
87687,76025	<=Pmax<=	462671,5685	3,382464923
89517,9703	<=Pmax<=	454890,1162	3,421258026
91437,8153	<=Pmax<=	448183,0796	3,460942925
93444,62838	<=Pmax<=	442424,6176	3,50151962
95536,63277	<=Pmax<=	437509,8516	3,542988109
97712,79573	<=Pmax<=	433350,8546	3,585348395
99972,72105	<=Pmax<=	429796,5733	3,628600476
102316,5594	<=Pmax<=	426769,2356	3,6727144352
104744,9481	<=Pmax<=	424315,6037	3,717780024
107258,9586	<=Pmax<=	422389,4235	3,763707491
109860,0601	<=Pmax<=	420951,2387	3,810526754
112623,1236	<=Pmax<=	419901,3443	3,858237812
115550,6878	<=Pmax<=	419210,6241	3,906840666
118571,7618	<=Pmax<=	418921,0438	3,956335315
121689,5431	<=Pmax<=	419011,519	4,00672176
124907,5352	<=Pmax<=	419464,2183	4,058

124907,5352	<=Pmax<=	419464,2183	4,058
129987,8524	<=Pmax<=	421701,9884	4,058
135465,0482	<=Pmax<=	424469,4829	4,058
135465,0482	<=Pmax<=	424469,4829	4,058
129220,4798	<=Pmax<=	421146,8301	4,058
123359,6796	<=Pmax<=	418347,033	4,058
123359,6796	<=Pmax<=	418347,033	4,058
119315,9296	<=Pmax<=	417294,105	4,0672176
115333,129	<=Pmax<=	416571,5849	3,9956335315
111403,7629	<=Pmax<=	416193,8268	3,906840666
107520,1582	<=Pmax<=	416178,0284	3,858237812
103674,411	<=Pmax<=	416544,6302	3,810526754
99858,29922	<=Pmax<=	417317,8008	3,763707491
96063,18239	<=Pmax<=	418526,0269	3,717780024
92279,88397	<=Pmax<=	420202,8346	3,672744352
88498,5502	<=Pmax<=	422387,6753	3,628600476
84708,48046	<=Pmax<=	425127,0208	3,585348395
80897,91754	<=Pmax<=	428475,7259	3,542988109
77053,78986	<=Pmax<=	432498,7353	3,50151962
73161,39166	<=Pmax<=	437273,2416	3,460942925
69203,9714	<=Pmax<=	442891,4369	3,421258026
65162,21032	<=Pmax<=	449464,0568	3,382464923
61013,5441	<=Pmax<=	457124,995	3,344563615
56731,27014	<=Pmax<=	466037,3862	3,307554102
52283,35855	<=Pmax<=	476401,7286	3,271436385
47867,24755	<=Pmax<=	488466,8936	3,236210464
43591,08216	<=Pmax<=	502545,2919	3,201876338
39015,96555	<=Pmax<=	518082,3398	3,168434007
34044,24015	<=Pmax<=	534922,9459	3,135883472
28625,71539	<=Pmax<=	553269,0168	3,104224732
22701,37665	<=Pmax<=	571946,9334	3,073457788
26766,9017	<=Pmax<=	592027,8584	3,04358264
31084,52804	<=Pmax<=	614164,371	3,014599287
34930,52902	<=Pmax<=	638677,7957	2,986507729
38616,16988	<=Pmax<=	665572,1666	2,959307967
42127,19362	<=Pmax<=	695625,0374	2,933
45307,73055	<=Pmax<=	693634,7394	2,907583829
48200,25597	<=Pmax<=	669808,2436	2,883059453
50839,8923	<=Pmax<=	648060,7869	2,859426873
53255,92015	<=Pmax<=	628152,4868	2,836686088
55481,58934	<=Pmax<=	609865,1234	2,814837099
57535,77393	<=Pmax<=	593033,8217	2,793879905
59428,79115	<=Pmax<=	577530,8114	2,773814507
61175,86626	<=Pmax<=	563234,6372	2,754640904
62790,09787	<=Pmax<=	550041,7013	2,736359096
64282,80988	<=Pmax<=	537863,337	2,718969084

65663,8359	<=Pmax<=	526623,4408	2,702470868
66941,7505	<=Pmax<=	516256,5398	2,686864447
68124,05823	<=Pmax<=	506706,2056	2,672149822
69217,34911	<=Pmax<=	497923,7437	2,658326992
70227,42711	<=Pmax<=	489867,1049	2,645395957
71159,41654	<=Pmax<=	482499,9762	2,633356718
72017,84993	<=Pmax<=	475791,0187	2,622209275
72806,742	<=Pmax<=	469713,2261	2,611953627
73529,65034	<=Pmax<=	464243,3841	2,602589774
110552,6398	<=Pmax<=	308268,6463	2,594117717
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112153,4453	<=Pmax<=	303131,2477	2,579848989
112836,5296	<=Pmax<=	301087,8617	2,574052319
113446,1547	<=Pmax<=	299384,8519	2,569147444
113985,3062	<=Pmax<=	298016,5605	2,565134364
114456,5297	<=Pmax<=	296978,5747	2,56201308
114861,9452	<=Pmax<=	296267,6458	2,559783591
115203,2595	<=Pmax<=	295881,6284	2,558445898
115481,7747	<=Pmax<=	295819,4388	2,558
115481,7747	<=Pmax<=	295819,4388	2,558
115276,4813	<=Pmax<=	296036,2193	2,558445898
115008,0397	<=Pmax<=	296577,3603	2,559783591
114675,0621	<=Pmax<=	297444,5037	2,56201308
114275,7504	<=Pmax<=	298640,3575	2,565134364
113807,8843	<=Pmax<=	300168,7401	2,569147444
113268,8074	<=Pmax<=	302034,6439	2,574052319
112655,411	<=Pmax<=	304244,3193	2,579848989
111964,1124	<=Pmax<=	306805,3811	2,586537455
111190,8307	<=Pmax<=	309726,939	2,594117717
73916,56796	<=Pmax<=	467226,3537	2,602589774
73228,66018	<=Pmax<=	473039,3295	2,611953627
72473,69196	<=Pmax<=	479473,5977	2,622209275
71647,9729	<=Pmax<=	486553,8511	2,633356718
70747,34282	<=Pmax<=	494308,6633	2,645395957
69767,10844	<=Pmax<=	502771,0465	2,658326992
68701,96843	<=Pmax<=	511979,1134	2,672149822
67545,92248	<=Pmax<=	521976,8637	2,686864447
66292,16256	<=Pmax<=	532815,1221	2,702470868
64932,94106	<=Pmax<=	544552,6624	2,718969084
63459,41128	<=Pmax<=	557257,5602	2,736359096
61861,4339	<=Pmax<=	571008,8308	2,754640904
60127,33928	<=Pmax<=	585898,4236	2,773814507
58243,63609	<=Pmax<=	602033,6684	2,793879905
56194,65013	<=Pmax<=	619540,297	2,814837099
53969,64782	<=Pmax<=	638550,7664	2,836686088
51549,19727	<=Pmax<=	659235,6002	2,859426873

48899,24192	<=Pmax<=	681820,0406	2,883059453
45989,68252	<=Pmax<=	706551,9556	2,907583829
42784,42446	<=Pmax<=	706477,5654	2,933
39239,82726	<=Pmax<=	676321,2726	2,959307967
35513,81731	<=Pmax<=	649342,783	2,986507729
31620,61198	<=Pmax<=	624756,2649	3,014599287
27243,14931	<=Pmax<=	602561,4723	3,04358264
23217,28079	<=Pmax<=	582435,0451	3,073457788
29295,55918	<=Pmax<=	563715,4138	3,104224732
34863,70552	<=Pmax<=	545312,8779	3,135883472
39981,098	<=Pmax<=	528425,0185	3,168434007
44698,22766	<=Pmax<=	512848,2287	3,201876338
49114,44695	<=Pmax<=	498743,0336	3,236210464
53679,74714	<=Pmax<=	486678,4503	3,271436385
58283,25322	<=Pmax<=	476338,4725	3,307554102
62722,01917	<=Pmax<=	467471,3895	3,344563615
67028,63709	<=Pmax<=	459874,4423	3,382464923
71230,30555	<=Pmax<=	453382,685	3,421258026
75350,03635	<=Pmax<=	447860,767	3,460942925
79407,55944	<=Pmax<=	443196,7789	3,50151962
83420,012	<=Pmax<=	439297,5847	3,542988109
87402,46816	<=Pmax<=	436085,2359	3,585348395
91368,3556	<=Pmax<=	433494,1886	3,628600476
95329,78139	<=Pmax<=	431469,1203	3,672744352
99297,79371	<=Pmax<=	429963,2036	3,717780024
103282,5952	<=Pmax<=	428936,7282	3,763707491
107293,7157	<=Pmax<=	428355,9937	3,810526754
111340,1559	<=Pmax<=	428192,4138	3,858237812
115430,5082	<=Pmax<=	428421,7875	3,906840666
119573,0582	<=Pmax<=	429023,7029	3,956335315
123775,8753	<=Pmax<=	429981,0476	4,00672176
128046,8869	<=Pmax<=	431279,6038	4,058
128046,8869	<=Pmax<=	431279,6038	4,058
134209,9056	<=Pmax<=	434379,7918	4,058
140778,7364	<=Pmax<=	438021,6716	4,058
140778,7364	<=Pmax<=	438021,6716	4,058
135179,4172	<=Pmax<=	435406,6667	4,058
129985,5177	<=Pmax<=	433335,9676	4,058
129985,5177	<=Pmax<=	433335,9676	4,058
126723,9484	<=Pmax<=	433107,4507	4,00672176
123562,6445	<=Pmax<=	433253,783	3,956335315
120498,131	<=Pmax<=	433794,0142	3,906840666
117527,2403	<=Pmax<=	434750,6031	3,858237812
114724,2692	<=Pmax<=	436080,7407	3,810526754
112086,8845	<=Pmax<=	437815,1975	3,763707491
109537,1053	<=Pmax<=	440058,0183	3,717780024

107073,5445	<=Pmax<=	442850,9586	3,672744352
104695,2275	<=Pmax<=	446242,9222	3,628600476
102401,6314	<=Pmax<=	450186,289	3,585348395
100192,7387	<=Pmax<=	454762,7713	3,542988109
98069,10927	<=Pmax<=	460130,4738	3,50151962
96031,9693	<=Pmax<=	466382,1608	3,460942925
94083,33071	<=Pmax<=	473628,4474	3,421258026
92226,14346	<=Pmax<=	482002,0261	3,382464923
90464,5022	<=Pmax<=	491663,1706	3,344563615
88803,91542	<=Pmax<=	502806,989	3,307554102
87251,6686	<=Pmax<=	515673,1123	3,271436385
85817,31901	<=Pmax<=	530558,8244	3,236210464
84513,37925	<=Pmax<=	547837,151	3,201876338
83210,1165	<=Pmax<=	566993,0987	3,168434007
81758,39757	<=Pmax<=	587251,5605	3,135883472
80143,43439	<=Pmax<=	608663,1603	3,104224732
78349,17027	<=Pmax<=	631129,6515	3,073457788
76358,34821	<=Pmax<=	654501,0877	3,04358264
74152,6919	<=Pmax<=	679084,1295	3,014599287
71713,03945	<=Pmax<=	704874,4179	2,986507729
69019,9317	<=Pmax<=	731839,9878	2,959307967
66054,19849	<=Pmax<=	732040,6067	2,933
66054,19849	<=Pmax<=	732040,6067	2,933
62797,86406	<=Pmax<=	713236,0985	2,907583829
59235,36727	<=Pmax<=	696833,1756	2,883059453
55355,14252	<=Pmax<=	682576,4743	2,859426873
51151,58245	<=Pmax<=	670261,518	2,836686088
46627,36294	<=Pmax<=	659725,1843	2,814837099
41796,04186	<=Pmax<=	650838,5692	2,793879905
36684,75073	<=Pmax<=	643501,6428	2,773814507
31336,68022	<=Pmax<=	637006,2163	2,754640904
25812,94531	<=Pmax<=	631735,1932	2,736359096
20193,31225	<=Pmax<=	627929,6125	2,718969084
15343,81156	<=Pmax<=	625569,7618	2,702470868
16114,69324	<=Pmax<=	624654,9164	2,686864447
16773,10469	<=Pmax<=	625203,2013	2,672149822
17321,18267	<=Pmax<=	627252,088	2,658326992
17759,64051	<=Pmax<=	630859,5565	2,645395957
18087,73958	<=Pmax<=	636106,0004	2,633356718
18303,20802	<=Pmax<=	643097,0062	2,622209275
18402,10028	<=Pmax<=	651967,1983	2,611953627
18378,58346	<=Pmax<=	662885,4385	2,602589774
18224,63498	<=Pmax<=	676061,7856	2,594117717
17929,62132	<=Pmax<=	691756,8027	2,586537455
17479,72092	<=Pmax<=	710294,0597	2,579848989
16857,1303	<=Pmax<=	732077,0712	2,574052319

16038,96761	<=Pmax<=	75,7612,5132	2,569147444
14995,73852	<=Pmax<=	769279,7738	2,565134364
13689,15951	<=Pmax<=	730886,6361	2,56201308
12069,00709	<=Pmax<=	693893,6361	2,559783591
10068,45789	<=Pmax<=	658601,5883	2,55845898
7597,00666	<=Pmax<=	625205,9263	2,558
7597,00666	<=Pmax<=	625205,9263	2,558
4371,219048	<=Pmax<=	594082,2	2,558
2,3691E-11	<=Pmax<=	565405,2903	2,558

Tabla 3. Resultados de la fuerza máxima de tesado. Por cable, y filas.

x (m)	P-perd	e0	inercia	area	MPP	sigma cp (kpa)	perd ac el	pm0
0	52630,83	0,094447738	19,162	21,1198	-3,638E-12	2516,514582	760,2124402	51870,61756
0,5	52617,21033	0,046048777	19,162	21,1198	1875,9312	2501,699568	755,7369813	51861,47335
1	52603,59065	0	19,162	21,1198	3415,4549	2490,723901	752,4213484	51851,1693
1	52603,59065	0	19,162	21,1198	3415,4549	2490,723901	752,4213484	51851,1693
1,5	52589,97098	0,043517855	19,17299649	21,12047438	4717,398	2484,486765	750,5371755	51839,4338
2	52576,35131	-0,08432405	19,20598597	21,1224975	5880,4161	2482,763314	750,0165393	51826,33477
2,5	52562,73163	0,122418587	19,26096843	21,12586938	6904,2525	2485,089592	750,719283	51812,01235
3	52549,11196	0,157801464	19,33794388	21,13059001	7788,6504	2490,98396	752,4999094	51796,61205
3,5	52535,49229	0,190472682	19,43691231	21,13665939	8533,3529	2499,952294	755,2091483	51780,28314
4	52521,87261	0,220432241	19,55787372	21,14407753	9138,1032	2511,493277	758,6955572	51763,17706
4,5	52508,25294	0,247680141	19,70082812	21,15284441	9602,6445	2525,103677	762,8071149	51745,44582
5	52494,63327	0,272216382	19,86577551	21,16296005	9926,72	2540,283479	767,3927727	51727,24049
5,5	52481,01359	0,294040964	20,05271587	21,17442444	10110,0729	2556,54077	772,3039284	51708,70966
6	52467,39392	0,313153887	20,26164923	21,18723757	10152,4464	2573,39626	777,3957937	51689,99812
6,5	52453,77424	-0,32955515	20,49257556	21,20139946	10053,5837	2590,387374	782,5286295	51671,24562

% p instant
0,0342016
0,03437186
0,034563714
0,034563714
0,034782222
0,035026118
0,035292792
0,035579536
0,03588357
0,036202075
0,036592219
0,036871191
0,037216224
0,037564621
0,037913781

7	52440,15457	-	20,74549489	21,21691011	9813,2279	2607,071845	787,5688316	51652,58574	0,038261216
7,5	52426,5349	-0,3542227	21,02040719	21,2337695	9431,1223	2623,030757	792,3898501	51634,14505	0,03860457
8	52412,91522	-	21,31731249	21,25197765	8907,01	2637,871032	796,8729402	51616,04228	0,038941632
8,5	52399,29555	-	21,63621076	21,27153454	8240,6343	2651,227327	800,9077359	51598,38782	0,039270347
9	52385,67588	-	21,97710202	21,29244019	7431,7382	2662,763387	804,3926575	51581,28322	0,039588824
9,5	52372,0562	-	22,33998627	21,31469459	6480,0651	2672,172828	807,23515	51564,82105	0,039895339
10	52358,43653	-0,36843754	22,7248635	21,33829774	5385,3581	2679,179452	809,3517771	51549,08475	0,04018834
10,5	52344,81686	-	23,13173371	21,36324964	4147,3604	2683,537081	810,6681707	51534,14869	0,04046644
11	52331,19718	-	23,56059691	21,3895503	2765,8151	2685,028995	811,1188621	51520,07832	0,040728421
11,5	52317,57751	-	24,01145309	21,4171997	1240,4655	2683,467016	810,647005	51506,93051	0,040973225
12	52303,95784	-	24,48430226	21,44619786	-428,9452	2678,690313	809,2040135	51494,75382	0,041199947
12,5	52290,33816	-	24,97914441	21,47654477	-2242,6739	2670,563961	806,7491285	51483,58903	0,041407829
13	52276,71849	-	25,49597955	21,50824043	-4200,9773	2658,977325	803,2489282	51473,46956	0,041596247
13,5	52263,09882	-	26,03480767	21,54128484	-6304,1124	2643,842323	798,6768042	51464,42201	0,041764707
14	52249,47914	-	26,59562878	21,575678	-8552,3358	2625,091598	793,0124084	51456,46673	0,041912829
14,5	52235,85947	-	27,17844287	21,61141992	10945,9043	2602,676658	786,2410923	51449,61838	0,042040341
15	52222,2398	-	27,78324994	21,64851058	13485,0749	2576,566019	778,3533442	51443,88645	0,042147066
15,5	52208,62012	-	28,41005	21,68695	16170,1044	2546,743355	769,344233	51439,27589	0,042232912
15,5	52208,62012	-	28,41005	21,68695	16170,1044	2546,743355	769,344233	51439,27589	0,042232912
15,5	52208,62012	-	28,41005	21,68695	16170,1044	2546,743355	769,344233	51439,27589	0,042232912
16	52195,00045	-	29,05884304	21,72673817	19001,2494	2513,205727	759,2128702	51435,78758	0,042297862
16,5	52181,38078	-	29,72962907	21,76787509	21978,7669	2475,961868	747,9618944	51433,41888	0,042341966
17	52167,7611	-	30,42240809	21,81036076	25102,9136	2435,030564	735,5969802	51432,16412	0,042365328
17,5	52154,14143	-	31,13718008	21,85419518	28373,9464	2390,43913	722,1263797	51432,01505	0,042368104
18	52140,52176	-	31,87394507	21,89937836	-31792,122	2342,222001	707,560495	51432,96126	0,042350486
18,5	52126,90208	-	32,63270303	21,94591029	35357,6973	2290,419425	691,9114844	51434,9906	0,042312701
19	52113,28241	-	33,41345398	21,99379096	39070,9291	2235,076272	675,1929033	51438,0895	0,042255002
19,5	52099,66273	-	34,21619792	22,04302039	42932,0742	2176,240959	657,4193776	51442,24336	0,042177659

20	52086,04306	0,252617876	35,04093484	22,09359857	-	46941,3895	2113,964478	638,6063114	51447,43675
20,5	52072,42339	0,309958126	35,88766474	22,14552551	-	51099,1316	2049,438333	619,1136454	51453,30974
21	52058,80371	0,365640154	36,75638763	22,19880119	-	55405,5574	1983,313652	599,1380785	51459,66564
21,5	52045,18404	0,41966396	37,64710351	22,25342562	-	59860,9238	1914,934856	578,4815676	51466,70247
22	52031,56437	0,472029543	38,55981237	22,30939881	-	64465,4876	1843,773742	556,9845474	51474,57982
22,5	52017,94469	0,522736903	39,49451421	22,36672075	-	69219,5055	1769,418145	534,5225079	51483,42219
23	52004,32502	0,571786041	40,45120904	22,42539144	-	74123,2344	1691,56118	511,0027425	51493,32228
23,5	51990,70535	0,619176957	41,42989685	22,48541088	-79176,931	1609,991087	486,3612799	51504,34407	51504,34407
24	51977,08567	0,664909649	42,43057765	22,54677907	-	84380,8523	1524,581677	460,5600004	51516,52567
24,5	51963,466	0,70898412	43,45325143	22,60949602	-	89735,2549	1435,283431	433,5839449	51529,88206
25	51949,84633	0,751400368	44,49791819	22,67356171	-	95240,3958	1342,115195	405,4388061	51544,40752
25,5	51936,22665	0,792158393	45,56457794	22,73897616	-	100896,532	1245,156496	376,1486086	51560,07804
26	51922,60698	0,831258196	46,65323068	22,80573936	-	106703,919	1144,540481	345,7535744	51576,85341
26,5	51908,98731	0,868699776	47,7638764	22,87385131	-	112662,816	1040,4473	314,3081253	51594,67918
27	51895,36763	0,904483133	48,8965151	22,94331201	-	118773,478	933,0982709	281,8791191	51613,48851
27,5	51881,74796	0,938608268	50,05114679	23,01412146	-	125036,162	822,7503101	248,5441672	51633,20379
28	51868,12829	0,971075181	51,227777146	23,08627967	-	131451,125	709,6909921	214,3901429	51653,73814
28,5	51854,50861	1,001883871	52,42638912	23,15978662	-	138018,624	594,234037	179,5118179	51674,99679
29	51840,88894	1,031034339	53,6469976	23,23464233	-	144738,915	476,7152422	144,0106329	51696,87831
29,5	51827,26927	1,058526584	54,88960339	23,31084679	-	151612,257	357,4887163	107,9935604	51719,2757
30	51813,64959	1,084360606	56,1542	23,3884	-	158638,904	236,923713	71,57214797	51742,07744
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30,5	51800,02992	1,087390152	56,1542	23,3884	-	165992,844	91,16246543	27,53921666	51772,4907
31	51786,41024	1,0884	56,1542	23,3884	-	173847,889	-62,91464254	19,00584812	51805,41609
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31,5	51772,79057	1,087390152	56,1542	23,3884	-	164621,524	115,9789793	35,03602305	51737,75455

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32	51759,1709	1,084360606	56,1542	23,3884	-	286,4151572	86,52298984	51672,64791	0,037887671
32	51759,1709	1,084360606	56,1542	23,3884	-	286,4151572	86,52298984	51672,64791	0,037887671
32,5	51745,55122	1,058526584	54,88960339	23,31084679	-	431,6512637	130,3972816	51615,15394	0,038958173
33	51731,93155	1,031034339	53,64699976	23,23464233	-	575,2876067	173,7883017	51558,14325	0,040019676
33,5	51718,31188	1,001883871	52,42638912	23,15978662	-	716,7772945	216,5308399	51501,78104	0,041069105
34	51704,6922	0,971075181	51,227777146	23,08627967	-	855,5718446	258,4592056	51446,233	0,042103375
34,5	51691,07253	0,938608268	50,05114679	23,01412146	-	991,123326	299,4078746	51391,66466	0,043119403
35	51677,45286	0,904483133	48,8965151	22,94331201	-	1122,88675	339,2122115	51338,24065	0,044114125
35,5	51663,83318	0,868699776	47,7638764	22,87385131	-	1250,322823	377,7093012	51286,12388	0,045084506
36	51650,21351	0,831258196	46,65323068	22,80573936	-	1372,901048	414,7388866	51235,47462	0,046027564
36,5	51636,59384	0,792158393	45,56457794	22,73897616	-	1490,103301	450,1444478	51186,44939	0,046940383
37	51622,97416	0,751400368	44,49791819	22,67356171	-	1601,427756	483,7743882	51139,19978	0,047820141
37,5	51609,35449	0,70898412	43,45325143	22,60949602	-	1706,393358	515,4833866	51093,8711	0,048664133
38	51595,73482	0,664909649	42,43057765	22,54677907	-5182,373	1804,544785	545,1338943	51050,60092	0,049469796
38,5	51582,11514	0,619176957	41,42989685	22,48541088	-	1895,457964	572,5978044	51009,51734	0,050234747
39	51568,49547	0,571786041	40,45120904	22,42539144	-	1978,746192	597,7582972	50970,73717	0,050956809
39,5	51554,8758	0,522736903	39,49451421	22,36672075	-	2054,06687	620,5118773	50934,36392	0,051634056
40	51541,25612	0,472029543	38,55981237	22,30939881	-	2121,128898	640,7706069	50900,48552	0,052264851
40,5	51527,63645	0,41966396	37,64710351	22,25342562	-	2179,70078	658,4645529	50869,1719	0,052847891
41	51514,01678	0,365640154	36,75638763	22,19880119	-	2229,619412	673,544437	50840,47233	0,053382259
41,5	51500,3971	0,309958126	35,88766474	22,14552551	-	2270,799625	685,9845505	50814,41255	0,053867476
42	51486,77743	0,252617876	35,04093484	22,09359857	-	2303,244457	695,785791	50790,99164	0,054303558
42,5	51473,15776	0,1952139	34,21619792	22,04302039	-	2327,457986	703,1004422	50770,05731	0,054693342
43	51459,53808	0,139334067	33,41345398	21,99379096	-6159,2503	2343,946979	708,0815926	50751,45649	0,055039678
43,5	51445,91841	0,084998267	32,63270303	21,94591029	-1074,6986	2352,804964	710,7574962	50735,16091	0,055343092
44	51432,29873	0,03218661	31,87394507	21,89937836	3862,1967	2354,145209	711,1623701	50721,13636	0,05560422
44,5	51418,67906	0,019094275	31,13718008	21,85419518	8651,6923	2348,102474	709,3369235	50709,34214	0,055823821

45	51405,05939	-	30,42240809	21,81036076	13294,045	2334,8348	705,328895	50699,73049	0,056002784
45,5	51391,43971	-	29,72962907	21,76787509	17789,5117	2314,525313	699,1936183	50692,2461	0,056142139
46	51377,82004	-	29,05884304	21,72673817	22138,3491	2287,38401	690,9945177	50686,82552	0,056243066
46,5	51364,20037	-	28,41005	21,68695	26340,8141	2253,649498	680,8036785	50683,39669	0,056306909
47	51350,58069	-	27,78324994	21,64851058	30397,1635	2213,590653	668,702325	50681,87837	0,056335179
47,5	51336,96102	-	27,17844287	21,61141992	34307,654	2167,50815	654,7812884	50682,17973	0,0563229568
48	51323,34135	-	26,59562878	21,575678	38072,5425	2115,735823	639,141416	50684,19993	0,056291953
48,5	51309,72167	-	26,03480767	21,54128484	41692,0859	2058,641791	621,8939127	50687,82776	0,056224405
49	51296,102	-	25,49597955	21,50824043	45166,5409	1996,62931	603,1605979	50692,9414	0,056129192
49,5	51282,48233	-	24,97914441	21,47654477	48496,1643	1930,137264	583,0740542	50699,40827	0,056008783
50	51268,86265	-	24,48430226	21,44619786	51681,2129	1859,640257	561,7776539	50707,085	0,055865847
50,5	51255,24298	-	24,01145309	21,4171997	54721,9436	1785,64821	539,425439	50715,81754	0,055703253
51	51241,62331	-	23,56059691	21,3895503	57618,6131	1708,705433	516,1818399	50725,44147	0,055524062
51,5	51228,00363	-	23,13173371	21,36324964	60371,4783	1629,389069	492,2212051	50735,78243	0,055331519
52	51214,38396	-	22,7248635	21,33829774	62980,796	1548,306889	467,7271361	50746,65682	0,055129045
52,5	51200,76429	-	22,33998627	21,31469459	65446,823	1466,094366	442,8916024	50757,87268	0,054920213
53	51187,14461	-	21,97710202	21,29244019	67769,816	1383,411006	417,9138339	50769,23078	0,054708732
53,5	51173,52494	-	21,63621076	21,27153454	69950,032	1300,935894	392,9989748	50780,52596	0,054498423
54	51159,90527	-	21,31731249	21,25197765	71987,7277	1219,362499	368,3565149	50791,54875	0,054293185
54,5	51146,28559	-	21,02040719	21,2337695	73883,1599	1139,392705	344,1984857	50802,08711	0,054096968
55	51132,66592	-	20,74549489	21,21691011	75636,5855	1061,730144	320,7374475	50811,92847	0,053913728
55,5	51119,04624	-	20,49257556	21,20139946	77248,2612	987,0729228	298,1842906	50820,86195	0,053747392
56	51105,42657	-	20,26164923	21,18723757	78718,4439	916,1057889	276,74587	50828,6807	0,053601812
56,5	51091,8069	-	20,05271587	21,17442444	80047,3904	849,491929	256,6225274	50835,18437	0,053480717
57	51078,18722	-	19,86577551	21,16296005	81235,3574	787,8645163	238,0055378	50840,18169	0,05338767

57,5	51064,56755	-	19,70082812	21,15284441	82282,6018	731,8181822	221,074533	50843,49302	0,053326016
58	51050,94788	-	19,55787372	21,14407753	83189,3805	681,9006402	205,9949715	50844,95291	0,0533298833
58,5	51037,3282	-	19,43691231	21,13665939	83955,9501	638,6046585	192,9157134	50844,41249	0,053308896
59	51023,70853	-	19,33794388	21,13059001	84582,5676	602,3605439	181,9667497	50841,74178	0,0533358623
59,5	51010,08886	-	19,26096843	21,12586938	85069,4897	573,5294472	173,2571803	50836,83168	0,053450046
60	50996,46918	-	19,20598597	21,1224975	85416,9732	552,397581	166,873467	50829,59572	0,053584775
60,5	50982,84951	-	19,17299649	21,12047438	85625,275	539,1715848	162,8780334	50819,97148	0,053763972
61	50969,22984	-0,8526	19,162	21,1198	85694,6519	533,975175	161,308253	50807,92158	0,0533988333
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61,5	50955,61016	-	19,17299649	21,12047438	85625,275	536,8509702	162,1770003	50793,43316	0,054258099
62	50941,99049	-	19,20598597	21,1224975	85416,9732	547,7712217	165,4758928	50776,5146	0,054573112
62,5	50928,37082	-	19,26096843	21,12586938	85069,4897	566,6268164	171,1719685	50757,19885	0,054932759
63	50914,75114	-	19,33794388	21,13059001	84582,5676	593,2251914	179,2070563	50735,54409	0,055335957
63,5	50901,13147	-	19,43691231	21,13665939	83955,9501	627,2934364	189,4987128	50711,63276	0,055781171
64	50887,5118	-	19,55787372	21,14407753	83189,3805	668,4826984	201,9415532	50685,57024	0,056266439
64,5	50873,89212	-	19,70082812	21,15284441	82282,6018	716,373758	216,4089358	50657,48319	0,056789402
65	50860,27245	-	19,86577551	21,16296005	81235,3574	770,4835438	232,7549298	50627,51752	0,057347344
65,5	50846,65278	-	20,05271587	21,17442444	80047,3904	830,2724985	250,8165407	50595,83623	0,05793723
66	50833,0331	-	20,26164923	21,18723757	78718,4439	895,1524893	270,4160998	50562,617	0,058555751
66,5	50819,41343	-	20,49257556	21,20139946	77248,2612	964,4950975	291,3637683	50528,04966	0,059199373
67	50805,79376	-	20,74549489	21,21691011	75636,5855	1037,640095	313,4600985	50492,33366	0,059864383
67,5	50792,17408	-	21,02040719	21,2337695	73883,1599	1113,903876	336,4985803	50455,6755	0,0606546935
68	50778,55441	-	21,31731249	21,25197765	71987,7277	1192,587669	360,2681217	50418,28629	0,061243099
68,5	50764,93473	-	21,63621076	21,27153454	69950,032	1272,985398	384,5554254	50380,37931	0,061948903
69	50751,31506	-	21,97710202	21,29244019	67769,816	1354,391026	409,1472046	50342,16786	0,062660376
69,5	50737,69539	-	22,33998627	21,31469459	65446,823	1436,105294	433,8322208	50303,86317	0,063373585

70	50724,07571	-	22,7248635	21,33829774	62980,796	1517,441789	458,4031158	50265,6726	0,06408467
70,5	50710,45604	-	23,13173371	21,36324964	60371,4783	1597,732249	482,6580147	50227,79803	0,064789871
71	50696,83637	-	23,56059691	21,3895503	57618,6131	1676,331134	506,4019064	50190,43446	0,065485557
71,5	50683,21669	-	24,01145309	21,4171997	54721,9436	1752,619419	529,4477907	50153,7689	0,066168246
72	50669,59702	-	24,48430226	21,44619786	51681,2129	1826,007655	551,6176004	50117,97942	0,066834624
72,5	50655,97735	-	24,97914441	21,47654477	48496,1643	1895,938293	572,7429066	50083,23444	0,067481554
73	50642,35767	-	25,49597955	21,50824043	45166,5409	1961,887373	592,6654263	50049,69225	0,068106089
73,5	50628,738	-	26,03480767	21,54128484	41692,0859	2023,365576	611,2373412	50017,50066	0,068705476
74	50615,11833	-	26,59562878	21,575678	38072,5425	2079,918737	628,321453	49986,79687	0,069277161
74,5	50601,49865	-	27,17844287	21,61141992	34307,654	2131,127869	643,7911901	49957,70746	0,069818788
75	50587,87898	-	27,78324994	21,64851058	30397,1635	2176,608771	657,5304895	49930,34849	0,070328195
75,5	50574,25931	-	28,41005	21,68695	26340,8141	2216,011274	669,4335691	49904,82574	0,070803412
76	50560,63963	-	29,05884304	21,72673817	22138,3491	2249,018196	679,4046111	49881,23502	0,071242657
76,5	50547,01996	-	29,72962907	21,76787509	17789,5117	2275,34406	687,3573763	49859,66258	0,071644322
77	50533,40029	-	30,42240809	21,81036076	13294,045	2294,733634	693,2147616	49840,18552	0,072006973
77,5	50519,78061	-	31,13718008	21,85419518	8651,6923	2306,960329	696,9083166	49822,8723	0,072329334
78	50506,16094	0,03218661	31,87394507	21,89937836	3862,1967	2311,82451	698,3777344	49807,7832	0,072610283
78,5	50492,54127	0,08498267	32,63270303	21,94591029	-1074,6986	2309,151759	697,5703246	49794,97094	0,07284884
79	50478,92159	0,139340697	33,41345398	21,99379096	-6159,2503	2298,791104	694,4404802	49784,48111	0,073044154
79,5	50465,30192	0,1952139	34,21619792	22,04302039	-	2280,613261	688,9491462	49776,35277	0,073195498
80	50451,68224	0,252617876	35,04093484	22,09359857	-	2254,508907	681,0632969	49770,61895	0,073302259
80,5	50438,06257	0,309958126	35,88766474	22,14552551	-	2219,985057	670,6340068	49767,42856	0,073361662
81	50424,4429	0,365640154	36,75638763	22,19880119	-	2176,573788	657,5199218	49766,92298	0,073371075
81,5	50410,82322	0,41966396	37,64710351	22,25342562	-	2124,290063	641,7255612	49769,09766	0,073330584
82	50397,20355	0,472029543	38,55981237	22,30939881	-	2063,236976	623,2820694	49773,92148	0,073240767
82,5	50383,58388	0,522736903	39,49451421	22,36672075	-	1993,595339	602,2440674	49781,33981	0,073102643
83	50369,9642	0,571786041	40,45120904	22,42539144	-	1915,614012	578,6867332	49791,27747	0,07291761

83,5	50356,34453	0,619176957	41,42989685	22,48541088	-	58607,1318	1829,601002	552,7031126	49803,64142	0,072687401
84	50342,72486	0,664909649	42,43057765	22,54677907	-65182,373	1735,915274	524,4016451	49818,32321	49818,32321	0,072414035
84,5	50329,10518	0,70898412	43,45325143	22,60949602	-	71908,0956	1634,955285	493,9039083	49835,20128	0,072099776
85	50315,48551	0,751400368	44,49791819	22,67356171	-	78784,5564	1527,172179	461,3425637	49854,14295	0,071747094
85,5	50301,86584	0,792158393	45,56457794	22,73897616	-	85812,0122	1413,023635	426,8594958	49875,00634	0,071358631
86	50288,24616	0,831258196	46,65323068	22,80573936	-	92990,7199	1293,008305	390,6041338	49897,64203	0,070937168
86,5	50274,62649	0,868699776	47,7638764	22,87385131	-	100320,936	1167,640831	352,7319459	49921,89454	0,070485602
87	50261,00682	0,904483133	48,8965151	22,94331201	-	107802,918	1037,451357	313,4030827	49947,60373	0,070006913
87,5	50247,38714	0,938608268	50,05114679	23,01412146	-	115436,922	902,981588	272,7811877	49974,60596	0,069504148
88	50233,76747	0,971075181	51,22777146	23,08627967	-	123223,205	764,7812199	231,0323181	50002,73515	0,0689804
88,5	50220,1478	1,001883871	52,42638912	23,15978662	-	131162,024	623,4048336	188,324007	50031,82379	0,068438788
89	50206,52812	1,031034339	53,64699976	23,23464233	-	139253,636	479,4091527	144,8244347	50061,70369	0,067882443
89,5	50192,90845	1,058526584	54,88960339	23,31084679	-	147498,297	333,350623	100,7017095	50092,20674	0,067314495
90	50179,28878	1,084360606	56,1542	23,3884	-	155896,264	185,7834822	56,1232251	50123,16555	0,066738062
90	50179,28878	1,084360606	56,1542	23,3884	-	155896,264	185,7834822	56,1232251	50123,16555	0,066738062
90,5	50165,6691	1,087390152	56,1542	23,3884	-	164621,524	13,42397384	4,055240525	50161,61386	0,066022178
91	50152,04943	1,0884	56,1542	23,3884	-	173847,889	-167,2718182	-50,5310472	50202,58048	0,065259406
91	50152,04943	1,0884	56,1542	23,3884	-	173847,889	-167,2718182	-50,5310472	50202,58048	0,065259406
91,5	50138,42976	1,087390152	56,1542	23,3884	-	165992,844	-14,86898092	-4,49176188	50142,92152	0,066370218
92	50124,81008	1,084360606	56,1542	23,3884	-	158638,904	129,3519225	39,07584774	50085,73423	0,067435009
92	50124,81008	1,084360606	56,1542	23,3884	-	158638,904	129,3519225	39,07584774	50085,73423	0,067435009
92,5	50111,19041	1,058526584	54,88960339	23,31084679	-	151612,257	248,8406832	75,17213861	50036,01827	0,068360689
93	50097,57073	1,031034339	53,64699976	23,23464233	-	144738,915	367,1398661	110,9090706	49986,66166	0,069279679
93,5	50083,95106	1,001883871	52,42638912	23,15978662	-	138018,624	483,8847651	146,1764699	49937,77459	0,070189925
94	50070,33139	0,971075181	51,22777146	23,08627967	-	131451,125	598,724673	180,8683915	49889,463	0,071089457
94,5	50056,71171	0,938608268	50,05114679	23,01412146	-	125036,162	711,3258488	214,8840158	49841,8277	0,071976396

95	50043,09204	0,904483133	48,8965151	22,94331201	-	821,3750639	248,1287198	49794,96332	0,072848982
95,5	50029,47237	0,868699776	47,7638764	22,87385131	-	928,5834283	280,5152329	49748,95713	0,073705588
96	50015,85269	0,831258196	46,65323068	22,80573936	-	1032,69064	311,9649205	49703,88777	0,074544751
96,5	50002,23302	0,792158393	45,56457794	22,73897616	-	1133,469633	342,4091883	49659,82383	0,075365194
97	49988,61335	0,751400368	44,49791819	22,67356171	-	1230,731829	371,7910693	49616,82228	0,076165856
97,5	49974,99367	0,70898412	43,45325143	22,60949602	-	1324,332636	400,066883	49574,92679	0,076945924
98	49961,374	0,664909649	42,43057765	22,54677907	-	1414,177682	427,2081211	49534,16588	0,0777704867
98,5	49947,75433	0,619176957	41,42989685	22,48541088	-79176,931	1500,229483	453,2034602	49494,55087	0,078442473
99	49934,13465	0,571786041	40,45120904	22,42539144	-	1582,514687	478,06095	49456,0737	0,079158894
99,5	49920,51498	0,522736903	39,49451421	22,36672075	-	1661,131915	501,8103831	49418,7046	0,079854683
100	49906,89531	0,472029543	38,55981237	22,30939881	-	1736,260171	524,5058348	49382,38947	0,080530848
100,5	49893,27563	0,41966396	37,64710351	22,25342562	59860,9238	1808,167864	546,2283884	49347,04724	0,081188898
101	49879,65596	0,365640154	36,75638763	22,19880119	-	1877,222404	567,0890346	49312,56692	0,0818309
101,5	49866,03629	0,309958126	35,88766474	22,14552551	51099,1316	1943,900383	587,2317468	49278,80454	0,082459535
102	49852,41661	0,252617876	35,04093484	22,09359857	-	2008,798292	606,8367188	49245,57989	0,083078157
102,5	49838,79694	0,195804343	34,21619792	22,04302039	42932,0742	2071,141591	625,6699701	49213,12697	0,08368241
103	49825,17727	0,14170247	33,41345398	21,99379096	-	2129,66711	643,3499102	49181,82736	0,084265189
103,5	49811,55759	0,090312256	32,63270303	21,94591029	-	2184,3384	659,8655287	49151,69206	0,084826289
104	49797,93792	0,041633701	31,87394507	21,89937836	-31792,122	2235,124272	675,2074037	49122,73051	0,085365535
104,5	49784,31824	0,004333195	31,13718008	21,85419518	28373,9464	2281,999794	689,3680032	49094,95024	0,085882787
105	49770,69857	0,047588432	30,42240809	21,81036076	-	2324,947362	702,3420092	49068,35656	0,086377944
105,5	49757,0789	0,088132009	29,72962907	21,76787509	-	2363,957862	714,1266686	49042,95223	0,086850957
106	49743,45922	0,125963928	29,05884304	21,72673817	-	2399,031902	724,7221652	49018,73706	0,087301828
106,5	49729,83955	0,161084187	28,41005	21,68695	16170,1044	2430,181123	734,1320152	48995,70754	0,087730624
106,5	49729,83955	0,161084187	28,41005	21,68695	-	2430,181123	734,1320152	48995,70754	0,087730624
107	49716,21988	0,193492788	27,78324994	21,64851058	-	2457,429558	742,3634793	48973,8564	0,088137478

107,5	49702,6002	-	27,17844287	21,61141992	-	10945,9043	2480,815059	749,4279919	48953,17221	0,088522605
108	49688,98053	-	26,59562878	21,575678	-8552,3358	2500,390739	755,3415979	48933,63893	0,088886302	0,088886302
108,5	49675,36086	-	26,03480767	21,54128484	-6304,1124	2516,226434	760,1253938	48915,23546	0,089228963	0,089228963
109	49661,74118	-	25,49597955	21,50824043	-4200,9773	2528,410155	763,805967	48897,93522	0,089551083	0,089551083
109,5	49648,12151	-	24,97914441	21,47654477	-2242,6739	2537,049501	766,415822	48881,70569	0,089853267	0,089853267
110	49634,50184	-	24,48430226	21,44619786	-428,9452	2542,272985	767,9937815	48866,50806	0,090136237	0,090136237
110,5	49620,88216	-	24,01145309	21,4171997	1240,4655	2544,231273	768,5853593	48852,2968	0,090400842	0,090400842
111	49607,26249	-	23,56059691	21,3895503	2765,8151	2543,098241	768,2430825	48839,01941	0,090648058	0,090648058
111,5	49593,64282	-	23,13173371	21,36324964	4147,3604	2539,071868	767,0267579	48826,61606	0,090879001	0,090879001
112	49580,02314	-0,36843754	22,7248635	21,33829774	5385,3581	2532,374864	765,0036637	48815,01948	0,091094922	0,091094922
112,5	49566,40347	-	22,33998627	21,31469459	6480,0651	2523,255012	762,248653	48804,15482	0,091297215	0,091297215
113	49552,7838	-	21,97710202	21,29244019	7431,7382	2511,985186	758,8441575	48793,93964	0,091487415	0,091487415
113,5	49539,16412	-	21,63621076	21,27153454	8240,6343	2498,862969	754,8800746	48784,28405	0,091667196	0,091667196
114	49525,54445	0,362488986	21,31731249	21,25197765	8907,01	2484,209874	750,4535296	48775,09092	0,091838367	0,091838367
114,5	49511,92478	-0,3542227	21,02040719	21,2337695	9431,1223	2468,370082	745,668496	48766,25628	0,092002862	0,092002862
115	49498,3051	-	20,74549489	21,21691011	9813,2279	2451,708728	740,6352772	48757,66982	0,092162737	0,092162737
115,5	49484,68543	-0,3295515	20,49257556	21,20139946	10053,5837	2434,609676	735,4698344	48749,21559	0,092320149	0,092320149
116	49471,06576	-	20,26164923	21,18723757	10152,4464	2417,472814	730,2929695	48740,77279	0,092477349	0,092477349
116,5	49457,44608	-	20,05271587	21,17442444	10110,0729	2400,710862	725,2293612	48732,21672	0,092636657	0,092636657
117	49443,82641	-	19,86577551	21,16296005	9926,72	2384,745747	720,4064687	48723,41994	0,092800448	0,092800448
117,5	49430,20673	-	19,70082812	21,15284441	9602,6445	2370,004568	715,9533146	48714,25342	0,092971123	0,092971123
118	49416,58706	-	19,55787372	21,14407753	9138,1032	2356,915243	711,999168	48704,58789	0,093151089	0,093151089
118,5	49402,96739	-	19,43691231	21,13665939	8533,3529	2345,901895	708,672152	48694,29524	0,093342732	0,093342732
119	49389,34771	-	19,33794388	21,13059001	7788,6504	2337,38009	706,0978047	48683,24991	0,093548389	0,093548389
119,5	49375,72804	-	19,26096843	21,12586938	6904,2525	2331,752025	704,3976258	48671,33042	0,093770322	0,093770322
120	49362,10837	-0,08432405	19,20598597	21,1224975	5880,4161	2329,401781	703,6876421	48658,42073	0,094010693	0,094010693
120,5	49348,48869	-	19,17299649	21,12047438	4717,398	2330,690761	704,0770294	48644,41166	0,094271533	0,094271533

121	49334,86902	-2,22045E-15	19,162	21,1198	3415,4549	2335,953419	705,666826	48629,2022
121	49334,86902	-2,22045E-15	19,162	21,1198	3415,4549	2335,953419	705,666826	48629,2022
121,5	49321,24935	0,046048777	19,162	21,1198	1875,9312	2345,274597	708,4826518	48612,7667
122	49307,62967	0,094447738	19,162	21,1198	2,132E-12	2357,617561	712,2113308	48595,41834
							MAX	811,1188621
								6554,495856

0,094554723
0,094554723
0,094860742
0,095183758

Tabla 5. Cálculo de las pérdidas instantáneas a partir de los valores de Pmax- Pérdidas por rozamiento y Penetración de cuñas.

Mqpl	Mqp2	Δσ _{pr} (Mpa)	σ _{cúp} (Mpa)	perd dif
-4,547E-12	-1,91E-11	25,14939033	2,480165436	9589,270308
2299,5744	1818,2468	25,14495677	2,466850667	9594,707591
4242,7836	3280,1284	25,13996087	2,455097553	9596,39455
4242,7836	3280,1284	25,13996087	2,455097553	9596,39455
5928,4544	4484,4716	25,13427094	2,449405315	9594,890764
7455,2426	5529,9321	25,12791989	2,448516494	9590,785706
8822,8912	6416,2531	25,12097568	2,452071557	9584,642441
10031,1435	7143,1778	25,11350887	2,459670283	9576,998494
11079,7427	7710,4494	25,10559182	2,470876909	9568,358401
11968,432	8117,8111	25,09729797	2,48522564	9559,187674
12696,9546	8365,0061	25,08870101	2,502226402	9549,908154
13265,0536	8451,7774	25,07987418	2,5213707	9540,894707
13672,4722	8377,8685	25,07088953	2,542137445	9532,473159
13918,9537	8143,0223	25,06181727	2,563998654	9524,919346
14004,2412	7746,9822	25,05272515	2,586424875	9518,459139
13928,0779	7189,4913	25,04367793	2,608890307	9513,269294
13690,207	6470,2928	25,03473699	2,630877474	9509,478986
13290,3717	5589,1299	25,0259599	2,651881452	9507,17188
12728,3152	4545,7458	25,01740015	2,671413574	9506,388618
12003,7807	3339,8836	25,00910702	2,689004618	9507,129616
11116,5113	1971,2866	25,00112536	2,704207443	9509,358049
10066,2502	439,6979	24,99349564	2,71659912	9513,00298

pm inf	% p dif
42281,34725	0,184869021
42266,76575	0,18500646
42254,77475	0,18507576
42254,77475	0,18507576
42244,54304	0,185088649
42235,54906	0,185056222
42227,36991	0,184988809
42219,61356	0,184896234
42211,92474	0,18478768
42203,98938	0,18467158
42195,53767	0,18455553
42186,34579	0,184446234
42176,2365	0,184349469
42165,07878	0,184270066
42152,78648	0,184211916
42139,31645	0,184177988
42124,66606	0,184170358
42108,8704	0,184190253
42091,9992	0,18428094
42074,1536	0,184313554
42055,46301	0,184445612
42036,08177	0,184542617

8852,7407	-1255,1392	24,98625391	2,725782527	9517,962533	42016,18615	0,18469234
7475,726	-3113,4816	24,97943191	2,731387485	9524,10708	41995,97124	0,184862046
5934,9491	-5135,586	24,97305721	2,733071442	9531,282388	41975,64812	0,185048542
4230,1534	-7321,7094	24,96715337	2,730519753	9539,312709	41955,44111	0,185248244
2361,0819	-9672,1085	24,96174014	2,723445597	9548,003786	41935,58525	0,185457229
327,4779	-12187,04	24,95683373	2,711589591	9557,145756	41916,32381	0,185671295
-1870,9153	-	24,95244704	2,694719135	9566,515965	41897,90605	0,185886008
-4234,3548	-17711,528	24,94858993	2,67262753	9575,881654	41880,58508	0,186096758
-6763,0971	-20721,5979	24,94526952	2,645132915	9585,002554	41864,61582	0,186298808
-9457,3992	-	24,9424904	2,612077083	9593,633359	41850,25309	0,186487336
-12317,5179	-27238,674	24,94025498	2,573324175	9601,526102	41837,74979	0,18665749
-12317,5179	-27238,674	24,94025498	2,573324175	9601,526102	41837,74979	0,18665749
-15343,71	30746,1936	24,93856367	2,52875931	9608,43241	41827,35517	0,186804419
-18536,2322	34420,0435	24,93741522	2,478287187	9614,105665	41819,31322	0,186923325
-21895,3415	-	24,93680685	2,421830656	9618,303048	41813,86107	0,187009495
-25421,2945	-42267,761	24,93673457	2,359329305	9620,787476	41811,22757	0,187058342
-29114,3482	46442,1423	24,93719334	2,313371612	9621,357935	41811,60333	0,187065992
-32974,7593	-50783,881	24,93817726	2,265313321	9619,770716	41815,21988	0,187027753
-37002,7846	-	24,93967976	2,212742022	9615,813377	41822,27613	0,186939551
-41198,681	-	24,94169375	2,155599392	9609,288731	41832,95463	0,186797622
-45562,7052	64815,8098	24,94421176	2,093836118	9600,01322	41847,42353	0,186598475
-50095,1141	-	24,94705927	2,028495914	9588,401163	41864,90858	0,186351494
-54796,1645	75011,9243	24,95014091	1,960206804	9575,24986	41884,41578	0,186072912
-59666,1131	-	24,95355271	1,888405094	9560,931468	41905,77101	0,185769265
-64705,2169	85883,6319	24,95737203	1,812654286	9545,779893	41928,79993	0,185446485
-69913,7326	-	24,96165924	1,732633213	9530,092758	41953,32943	0,185109932
-75291,917	97432,9872	24,96645929	1,648124739	9514,133609	41979,18867	0,184764416
-80840,0269	103462,425	24,97180318	1,559005105	9498,134269	42006,2098	0,184414236
-86558,3192	109662,045	24,97770942	1,465233953	9482,297241	42034,22843	0,184063213
-92447,0506	116032,104	24,98418524	1,366845034	9466,798108	42063,08395	0,183714725

-98506,4779	-	122572,859	24,99122789	1,263937615	9451,787885	42092,61964	0,183371744
-104736,858	-	129284,566	24,99882572	1,156668559	9437,395272	42122,68277	0,183036869
-111138,448	-	136167,484	25,00695923	1,045245067	9423,728796	42153,12461	0,182712364
-117711,504	-	143221,867	25,01560203	0,929918085	9410,878827	42183,80035	0,182400181
-124456,283	-	150447,974	25,0247217	0,810976252	9398,919448	42214,56907	0,182101999
-131373,043	-	157846,061	25,03428063	0,688740455	9387,910185	42245,29361	0,181819246
-138462,039	-	165416,385	25,04423668	0,563558985	9377,897596	42275,84055	0,181553125
-145723,529	-	173159,203	25,0545439	0,435803013	9368,916713	42306,08008	0,18130464
-153157,769	-181074,77	25,06515312	0,305862726	9360,992363	42335,88594	0,181074616	0,181074616
-160765,016	-	189163,346	25,07601246	0,174143731	9354,140351	42365,13535	0,180863715
-168545,528	-	197425,185	25,08706785	0,041063908	9348,368531	42393,70891	0,180672462
-168545,528	-	197425,185	25,08706785	0,041063908	9348,368531	42393,70891	0,180672462
-176673,289	-	206034,274	25,10181367	-0,117414874	9346,465057	42426,02564	0,180529562
-185322,114	-	215164,426	25,1177775	-0,284098453	9345,691303	42459,72479	0,180399889
-185322,114	-	215164,426	25,1177775	-0,284098453	9345,691303	42459,72479	0,180399889
-174908,262	-	204750,575	25,0849719	-0,085452868	9346,502675	42391,25187	0,180651494
-165015,475	-	194857,787	25,05340505	0,104808316	9348,443561	42324,20435	0,180916673
-165015,475	-	194857,787	25,05340505	0,104808316	9348,443561	42324,20435	0,180916673
-155469,937	-	185312,249	25,02552918	0,26966532	9354,252849	42260,90109	0,181230746
-146097,663	-	175939,975	24,99788764	0,432829814	9361,141988	42197,00126	0,181564762
-136898,396	-	166740,708	24,9705605	0,593658326	9369,10286	42132,67818	0,181918036
-127871,879	-	157714,191	24,94362812	0,751498433	9378,119373	42068,11363	0,182289719
-119017,857	-	148860,169	24,91717074	0,905690281	9388,166378	42003,49828	0,182678776
-110336,071	-	140178,383	24,89126819	1,055568553	9399,20849	41939,03216	0,183083962
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-93488,1823	-	123330,494	24,84144224	1,339708856	9424,077244	41811,39738	0,183936566

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42275,84055	0,181553125
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42426,02564	0,180529562
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42459,72479	0,180399889
42391,25187	0,180651494
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42324,20435	0,180916673
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-13029,5565	-	42871,8683	24,63729093	2,318067059	9588,736327	41225,67622	0,188701115
-6732,1211	-	36574,4328	24,62593534	2,342866907	9600,297059	41190,69458	0,189015744
-603,0703	-30445,382	24,61578536	2,356330695	9609,61548	41160,44183	0,189277223	0,189277223
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16776,3421	13065,9696	24,59206612	2,334688831	9621,691508	41099,44486	0,18969787	0,18969787
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27525,4019	-2316,9097	24,58168751	2,337712558	9616,907474	41082,82301	0,189683601	0,189683601
32649,5377	2807,2261	24,57805871	2,341077002	9610,817622	41081,42847	0,189591473	0,189591473
37607,0865	7764,7749	24,57543056	2,335940416	9602,34965	41084,47587	0,189444684	0,189444684
42398,3051	12555,9935	24,57376809	2,322576448	9591,584832	41091,80186	0,189245304	0,189245304
47023,4504	17181,1388	24,57303194	2,301294268	9578,657729	41103,22064	0,18895713	0,18895713
51482,779	21640,4674	24,57317805	2,272440003	9563,65617	41118,52356	0,188698596	0,188698596
55776,548	25934,2364	24,57415754	2,236397931	9546,721095	41137,47884	0,188356946	0,188356946
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67667,0643	37824,7527	24,58153128	2,089576788	9485,813903	41213,59437	0,187099105	0,187099105
71301,1623	41458,8508	24,58525333	2,029413743	9462,70348	41244,38152	0,186615016	0,186615016
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78076,788	48234,4765	24,59413344	1,895679098	9413,389852	41312,05161	0,185575316	0,185575316
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92154,51	62312,1986	24,62086107	1,514236832	9281,81255	41498,71341	0,182782915	0,182782915
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107279,8658	77437,5545	24,65209838	0,907628608	9088,106007	41756,8469	0,178741556
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55776,5476	25934,2368	24,23602273	2,20112804	9546,646241	40440,15063	0,190983356
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8852,7405	-1255,1388	23,67351082	2,583608935	9517,666288	39308,94977	0,194927829	0,194927829
10066,25	439,6983	23,66788823	2,572137772	9512,702873	39302,31661	0,194872459	0,194872459
11116,511	1971,2869	23,66262052	2,557677407	9509,054312	39295,1005	0,194841082	0,194841082
12003,7804	3339,8839	23,6576677	2,54065069	9506,822508	39287,11713	0,194836133	0,194836133
12728,315	4545,746	23,65298621	2,521501189	9506,078419	39278,20563	0,194859443	0,194859443
13290,3715	5589,1302	23,64852893	2,500690655	9506,858883	39268,23204	0,194912171	0,194912171
13690,2068	6470,2931	23,64424547	2,478696013	9509,163495	39257,09278	0,194994741	0,194994741
13928,0777	7189,4915	23,64008234	2,456005813	9512,951613	39244,71821	0,195106773	0,195106773
14004,2411	7746,9824	23,63598332	2,433116184	9518,139552	39231,07603	0,19524703	0,19524703
13918,9536	8143,0225	23,63188984	2,410526349	9524,59615	39216,17464	0,195413359	0,195413359
13672,4721	8377,8687	23,62774144	2,388733683	9532,150592	39200,06613	0,195602647	0,195602647
13265,0535	8451,7776	23,62347633	2,368228444	9540,570975	39182,84896	0,195810782	0,195810782
12696,9545	8365,0062	23,61903196	2,3494882	9549,583412	39164,67001	0,196032634	0,196032634
11968,4319	8117,8112	23,61434565	2,332972105	9558,862012	39145,72588	0,196262045	0,196262045

11079,7427	7710,4496	23,60935527	2,319115091	9568,03183	39126,26341	0,196491843
10031,1435	7143,1779	23,60399996	2,308322132	9576,670934	39106,57898	0,196713879
8822,8911	6416,2532	23,59822081	2,300962681	9584,31371	39087,01671	0,196919082
7455,2425	5529,9322	23,59196156	2,297365457	9590,45504	39067,96522	0,197097755
5928,4544	4484,4716	23,58516929	2,297813669	9594,558655	39049,853	0,197238662
4242,7836	3280,1284	23,57779501	2,302540848	9596,059992	39033,14221	0,197331224
4242,7836	3280,1284	23,57779501	2,302540848	9596,059992	39033,14221	0,197331224
2299,5744	1818,2468	23,56982628	2,312668367	9594,369864	39018,39683	0,197363173
5,388E-12	-5,526E-12	23,56141495	2,323563563	9588,928561	39006,48978	0,197321659
MAX				9621,691508	77751,04249	

Tabla 6. Cálculo de pérdidas diferidas .