

# Dispersion Report

## Workspace: 72341-1RiempimFSRU

### Study: Riempimento FSRU-ME4

### Equipment Item: 5R Linee mandata pompe LNG Feed e collettore GNL durante riempimento

72341-1RiempimFSRU\Riempimento FSRU-ME4\5R Linee mandata pompe LNG Feed e collettore GNL durante riempimento

Material	<b>GAS NATURALE</b>	
East	0	m
North	0	m

### Scenario (Leak) : 70mm

72341-1RiempimFSRU\Riempimento FSRU-ME4\5R Linee mandata pompe LNG Feed e collettore GNL durante riempimento\70mm

Material to track	<b>GAS NATURALE</b>
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### Weather: Category 2/F

Wind speed [m/s]	2
Pasquill stability	F stable - night with moderate clouds and light/moderate wind
Atmospheric temperature [degC]	25
Relative humidity [fraction]	0,75
Solar radiation flux [kW/m2]	0,5
Mixing layer height [m]	100

### Observer Release Data and Observer Mass Data

					Masses or mass rates			
Observer number	Release type	Start time [s]	Start downwind distance [m]	Unit	Release	Rainout	Pool vapour pick-up	Final

1	Continuou s	0	0	kg/s	66,9133	66,5946		0,31866 6
2	Continuou s	0,22	-0,373878	kg/s	66,9133	66,5946		19,0302
3	Continuou s	39,863	-12,7307	kg/s	66,9133	66,5946		52,4951
4	Continuou s	66,616 1	-15,1257	kg/s	66,9133	66,5946		54,3574
5	Continuou s	93,418 4	-16,7384	kg/s	66,9133	66,5946		55,8566
6	Continuou s	119,48 7	-18,0146	kg/s	66,9133	66,5946		56,9234
7	Continuou s	144,99 4	-19,0617	kg/s	66,9133	66,5946		50,4166
8	Continuou s	153,62 7	-19,3831	kg/s	66,9133	66,5946		45,9948
9	Continuou s	153,62 8	-19,3831	kg/s	0	0	45,676 2	45,6762
10	Continuou s	163,90 2	-19,7477	kg/s	0	0		39,6744
11	Continuou s	170,11 5	-19,9636	kg/s	0	0		36,1478
12	Continuou s	194,90 5	-20,7423	kg/s	0	0		23,4833
13	Continuou s	241,21 4	-20,7645	kg/s	0	0		12,1336
14	Continuou s	472,46 6	-20,7645	kg/s	0	0		0,99053 8

### Time-varying Observer Dispersion Data (before along-wind-diffusion effects)

Dispersion data correspond to an averaging time of: 18,75 s

Obser ver num ber	Time [s]	Down wind distan ce [m]	C/Li ne heig ht [m]	C/Lin e conc [ppm]	Effecti ve width [m]	Effecti ve depth [m]	C/Line vapour tempera ture [degC]	C/Li ne liqui d fracti	Centr oid veloci ty [m/s]	C/Lin e cloud densi ty
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								on	]	[kg/ m3]
1	0	0	0	999.87 5,80	0,1463 87	0,0710 111	-160,932	0	16,047 7	1,9106 7
1	0,01	0,14634 1	0	944.09 3,58	0,1572 15	0,0925 242	-150,115	0	13,427 6	1,7948 3
1	0,02	0,27158 9	0	901.25 0,66	0,1693 68	0,1104 64	-141,657	0	11,741 7	1,7193
1	0,03	0,38254 5	0	866.57 5,76	0,1823 26	0,1255 27	-134,718	0	10,539 5	1,6649 2
1	0,04	0,48308 1	0	837.57 9,48	0,1957 91	0,1383 38	-128,852	0	9,6233 2	1,6233 3
1	0,05	0,57550 8	0	812.80 6,11	0,2095 81	0,1493 24	-123,794	0	8,8958 6	1,5902 5
1	0,06	0,66141 7	0	791.28 6,24	0,2235 76	0,1588 37	-119,366	0	8,3001 8	1,5631 5
1	0,07	0,74190 3	0	772.35 0,90	0,2376 99	0,1671 32	-115,442	0	7,8016	1,5404 6
1	0,08	0,81777 4	0	755.51 2,77	0,2518 96	0,1744 07	-111,933	0	7,3771 5	1,5211
1	0,09	0,88967 8	0	740.40 0,38	0,2661 28	0,1808 35	-108,765	0	7,0104	1,5043 6
1	0,1	0,95813 1	0	726.72 7,07	0,2803 66	0,1865 6	-105,886	0	6,6894	1,4896 9
1	0,11	1,02356	0	714.26 7,58	0,2945 9	0,1917 03	-103,25	0	6,4052 1	1,4766 9
1	0,12	1,08631	0	702.84 4,18	0,3087 84	0,1963 58	-100,824	0	6,1512 1	1,4650 7
1	0,13	1,14666	0	692.31 2,28	0,3229 36	0,2006 05	-98,5782	0	5,9222 8	1,4546
1	0,14	1,20486	0	682.55 6,73	0,3370 41	0,2044 99	-96,4909	0	5,7146	1,4451 1
1	0,15	1,26107	0	673.48 4,43	0,3510 92	0,2080 83	-94,5433	0	5,5252 4	1,4364 4
1	0,16	1,31547	0	665.01 7,28	0,3650 87	0,2113 91	-92,7201	0	5,3517 8	1,4284 9
1	0,17	1,36821	0	657.08 1,79	0,3790 22	0,2144 69	-91,0058	0	5,1919 5	1,4211 5

1	0,18	1,41942	0	649.62 6,55	0,3928 96	0,2173 36	-89,39	0	5,0442	1,4143 5
1	0,19	1,4692	0	642.60 1,01	0,4067 06	0,2200 22	-87,8623	0	4,9070 2	1,4080 3
1	0,2	1,51766	0	635.96 2,77	0,4204 52	0,2225 46	-86,4141	0	4,7792 3	1,4021 2
1	0,212	1,57424	0	628.44 7,56	0,4368 62	0,2254 06	-84,7691	0	4,6365 9	1,3955
1	0,226 4	1,63998	0	620.02 2,40	0,4564 31	0,2285 99	-82,9176	0	4,4793 1	1,3881 8
1	0,243 68	1,71599	0	610.66 8,18	0,4797 39	0,2321 25	-80,8523	0	4,3079 4	1,3801 5
1	0,264 416	1,8035	0	600.37 9,64	0,5074 56	0,2359 92	-78,5686	0	4,1233 5	1,3714 6
1	0,289 299	1,90369	0	589.18 7,74	0,5403 62	0,2401 79	-76,0689	0	3,9272	1,3621 3
1	0,319 159	2,01777	0	577.14 3,88	0,5793 47	0,2446 7	-73,3596	0	3,7215 2	1,3522 5
1	0,354 991	2,14712	0	564.30 1,31	0,6254 32	0,2494 99	-70,4468	0	3,5082	1,3418 6
1	0,397 989	2,29318	0	550.72 5,34	0,6797 78	0,2547 32	-67,3386	0	3,2892 6	1,3310 2
1	0,449 587	2,45721	0	536.53 1,35	0,7436 97	0,2603 66	-64,0533	0	3,0676 7	1,3198 4
1	0,511 504	2,64038	0	521.86 0,46	0,8186 52	0,2663 57	-60,6142	0	2,8468 8	1,3083 9
1	0,585 805	2,84426	0	506.81 1,51	0,9062 49	0,2728 26	-57,035	0	2,6288 9	1,2967 4
1	0,674 966	3,06971	0	491.56 9,45	1,0081 8	0,2796 91	-53,3471	0	2,4171 6	1,2849 7
1	0,781 959	3,31801	0	476.27 3,37	1,1262 1	0,2869 79	-49,5714	0	2,2140 1	1,2731 4
1	0,910 351	3,59007	0	461.09 6,13	1,2620 2	0,2946 16	-45,7366	0	2,0219 7	1,2613 2
1	1,064 42	3,88713	0	446.17 6,57	1,4171 2	0,3025 81	-41,886	0	1,8425 6	1,2496 4
1	1,249 31	4,21154	0	431.58 4,47	1,5928 2	0,3110 47	-38,0678	0	1,6758 2	1,2383 1

1	1,471 17	4,56547	0	417.43 5,13	1,7899 4	0,3200 33	-34,3213	0	1,5223 9	1,2274 4
1	1,737 4	4,95087	0	403.52 7,19	2,0082 7	0,3299 89	-30,6153	0	1,3824 4	1,2169 5
1	2,056 88	5,37039	0	387.42 1,96	2,2450 6	0,3453 76	-26,489	0	1,2516 2	1,2059 9
1	2,440 26	5,82586	0	367.53 5,46	2,4913 4	0,3701 74	-21,7383	0	1,1307 2	1,1945 3
1	2,900 31	6,32002	0	344.47 6,83	2,7259 9	0,4065 07	-16,6585	0	1,0244 6	1,1836 7
1	3,452 37	6,85936	0	320.59 7,29	2,8973 8	0,4581 21	-11,8337	0	0,9365 1	1,1746 8
1	4,114 84	7,45351	0	290.59 1,85	2,9557 1	0,5503 17	-6,5932	0	0,8604 76	1,1672 5
1	4,909 81	8,10987	0	251.99 7,92	3,0534 5	0,6791 64	- 0,977116	0	0,7953 83	1,1625 7
1	5,863 77	8,84311	0	214.02 4,15	3,1892 7	0,8311 12	3,69782	0	0,7460 73	1,1614 7
1	7,008 53	9,67445	0	179.23 7,27	3,3660 5	1,0036	7,59081	0	0,7096 44	1,1618 8
1	8,382 23	10,6291	0	148.93 5,13	3,5839 5	1,1923	10,6147	0	0,6831 92	1,1635 6
1	8,879 55	10,967	0	140.22 9,13	3,6623 5	1,2557 4	11,4279	0	0,6763 6	1,1642 3
1	8,879 55	10,967	0	140.22 9,13	3,6623 5	1,2557 4	11,4279	0	0,6763 6	1,1642 3
1	10,03 07	11,7368	0	123.97 4,32	3,8286	1,3912	12,888	0	0,6643 87	1,1656 8
1	12,00 88	13,0371	0	104.72 5,52	4,0676 9	1,5919 2	14,5305	0	0,6511 8	1,1676 7
1	14,38 26	14,5892	0	90.004, 00	4,2853 8	1,7423	15,7324	0	0,6603 05	1,1693 5
1	17,23 11	16,4943	0	78.699, 63	4,4754 5	1,8678 1	16,6329	0	0,6769 46	1,1707
1	20,64 93	18,8355	0	70.163, 26	4,6407 2	1,9807 3	17,3099	0	0,6924 21	1,1716 9
1	24,75 12	21,7037	0	64.393, 14	4,7970 6	2,0729 6	17,8227	0	0,7049 84	1,1723 5

1	29,67 34	25,2011	0	60.746, 37	4,9760 7	2,1522 3	18,2636	0	0,7158	1,1728 6
1	35,58 01	29,4695	0	56.975, 01	5,1943 2	2,2495 6	18,723	0	0,7298 69	1,1734 9
1	42,66 81	34,7036	0	52.988, 68	5,4586 7	2,3656 5	19,1805	0	0,7470 56	1,1742 2
1	51,17 37	41,1492	0	49.039, 34	5,7821 7	2,5082 5	19,7046	0	0,7686 39	1,1748
1	61,38 05	49,1319	0	45.015, 52	6,1789 6	2,6868 5	20,8559	0	0,7955 91	1,1731 9
1	73,62 86	59,0762	0	40.938, 56	6,6683 9	2,9077 1	21,8712	0	0,8282 74	1,1720 4
1	84,70 39	68,4142	0	38.042, 07	7,1237 2	3,1141 6	22,5453	0	0,8580 38	1,1714 6
1	88,32 63	71,5462	0	36.990, 02	7,2755 3	3,1839 4	22,7281	0	0,8678 96	1,1713 4
1	105,9 64	87,2952	0	33.766, 93	8,0333 1	3,5325 4	23,4177	0	0,9159 39	1,1710 6
1	127,1 28	107,258	0	25.909, 08	8,9819 8	3,9217 1	23,9239	0	0,9671 09	1,1710 5
1	152,5 26	132,44	0	19.940, 26	10,162 4	4,3071 6	24,2731	0	1,0154 3	1,1711 6
1	177,2 22	164,23	0	14.995, 43	11,631 1	4,7639 6	24,5255	0	1,0701 6	1,1714
1	184,0 8	173,962	0	13.853, 98	12,076 5	4,8984 8	24,5785	0	1,0857 8	1,1714 8
1	205,2 33	204,565	0	11.008, 41	13,465 1	5,3106 5	24,7007	0	1,1324 6	1,1717
1	239,5 99	255,806	0	7.914,8 3	15,757 6	5,9568 8	24,8173	0	1,2022 2	1,172
1	281,7 66	321,204	0	5.573,2 0	18,632 5	6,7259 1	24,892	0	1,2806 1	1,1722 8
1	333,5 29	404,942	0	3.849,7 6	22,245 5	7,6401 7	24,9379	0	1,3683 5	1,1725 3
1	396,9 47	512,472	0	2.613,1 0	26,794 6	8,7270 6	24,9653	0	1,4662 5	1,1727 2
1	473,9 05	650,921	0	1.746,4 9	32,531 1	10,017 1	24,9811	0	1,5750 1	1,1728 7

1	568,281	829,578	0	1.151,99	39,7727	11,544	24,9899	0	1,69525	1,17298
1	684,639	1060,53	0	751,75	48,9202	13,3448	24,9947	0	1,82745	1,17306
1	708,618	1104,62	0	700,10	50,6435	13,6704	24,9952	0	1,85041	1,17307
2	0,22	-0,373878	0	1,00	0,00177245	0,782428	24,6246	0	0,614873	1,1739
2	0,32	-0,356652	0	924.911,86	0,495088	0,130922	-146,86	0	0,0877794	1,76739
2	0,42	-0,34927	0	951.397,07	0,776003	0,191991	-151,922	0	0,0654529	1,81481
2	0,52	-0,34313	0	960.688,84	1,03792	0,226091	-153,679	0	0,0587933	1,8323
2	0,62	-0,337378	0	965.206,38	1,29013	0,246536	-154,528	0	0,0566041	1,84093
2	0,72	-0,331739	0	967.675,24	1,53374	0,259934	-154,968	0	0,0563435	1,84532
2	0,82	-0,326067	0	969.059,55	1,77044	0,269319	-155,179	0	0,0571003	1,8472
2	0,92	-0,320289	0	969.802,71	2,00106	0,27647	-155,254	0	0,0584401	1,84755
2	1,02	-0,314361	0	970.126,71	2,231	0,281611	-155,24	0	0,0601566	1,84693
2	1,12	-0,308247	0	970.160,55	2,46226	0,28524	-155,163	0	0,0621366	1,84559
2	1,22	-0,301926	0	969.982,58	2,69445	0,287874	-155,039	0	0,064313	1,84372
2	1,32	-	0	969.64	2,9272	0,2898	-154,88	0	0,0666	1,8414

		0,29538		5,79	1	58			376	5
2	1,42	- 0,288596	0	969.191,92	3,16029	0,291516	-154,693	0	0,0690661	1,83886
2	1,52	- 0,281565	0	968.648,79	3,39356	0,293006	-154,484	0	0,0715694	1,83604
2	1,62	- 0,27428	0	968.035,71	3,62696	0,294404	-154,259	0	0,074129	1,83303
2	1,72	- 0,266739	0	967.368,44	3,86045	0,295773	-154,021	0	0,0767278	1,82989
2	1,82	- 0,258936	0	966.659,88	4,09403	0,29717	-153,773	0	0,079351	1,82665
2	1,92	- 0,25087	0	965.919,12	4,32768	0,29861	-153,516	0	0,0819892	1,82332
2	2,02	- 0,242539	0	965.153,25	4,56142	0,300099	-153,253	0	0,0846352	1,81995
2	2,12	- 0,233944	0	964.367,99	4,79527	0,301639	-152,986	0	0,0872833	1,81653
2	2,22	- 0,225085	0	963.569,08	5,02924	0,30324	-152,715	0	0,0899262	1,81309
2	2,34	- 0,214106	0	962.597,85	5,31021	0,305245	-152,386	0	0,0930852	1,80895
2	2,484	- 0,200433	0	961.420,51	5,6477	0,307751	-151,988	0	0,0968526	1,80397
2	2,6568	- 0,183311	0	959.998,41	6,05321	0,310868	-151,508	0	0,101335	1,79802
2	2,86416	- 0,161751	0	958.294,84	6,54071	0,314793	-150,932	0	0,106635	1,79094
2	3,112	-	0	956.26	7,1270	0,3196	-150,243	0	0,1128	1,7825



	99	0,13444 1		6,28	9	82			79	8
2	3,411 59	- 0,09964 18	0	953.87 0,35	7,8329 7	0,3257 27	-149,426	0	0,1201 93	1,7727 8
2	3,769 91	- 0,05504 3	0	951.06 5,46	8,6833 8	0,3331 29	-148,462	0	0,1287 09	1,7613 7
2	4,182 32	7,03122 E-15	0	947.93 9,87	9,6668 1	0,3416 8	-147,377	0	0,1381 75	1,7487 5
2	4,182 32	7,03122 E-15	0	974.05 9,43	6,8267 8	0,0184 691	-154,226	0	4,7634	1,8252
2	4,199 89	0,06947 82	0	933.11 6,56	6,7946 7	0,0335 555	-146,521	0	3,3969 1	1,7530 4
2	4,715 87	0,84048	0	910.11 3,40	7,607	0,2696 55	-142,431	0	0,9940 01	1,7202 8
2	5,335 04	1,35501	0	926.51 4,29	9,1193	0,4179 04	-145,199	0	0,7154 98	1,7412 3
2	6,078 05	1,83055	0	937.64 5,97	11,226 4	0,5127 41	-146,536	0	0,5813 89	1,7481
2	6,969 66	2,30865	0	944.59 5,54	13,937 3	0,5723 65	-146,672	0	0,4998 32	1,7421 9
2	8,039 59	2,8121	0	947.27 0,23	17,286 4	0,6097 23	-145,574	0	0,4469 03	1,7232 2
2	9,323 51	3,36152	0	946.35 8,45	21,321 6	0,6313 17	-143,34	0	0,4133 01	1,6927 6
2	10,86 42	3,98141	0	942.44 7,41	26,092 7	0,6416 08	-140,039	0	0,3943 64	1,6526
2	12,71 31	4,70293	0	935.76 9,27	31,646	0,6434 2	-135,659	0	0,3878 83	1,6041 7
2	14,93 17	5,56683	0	926.45 3,82	38,016 3	0,6384 99	-130,139	0	0,3928 94	1,5486 9
2	17,59 4	6,63021	0	914.71 2,77	45,199	0,6286 22	-123,378	0	0,4087 82	1,4871 4
2	20,78 88	7,97581	0	900.53 3,24	53,093 5	0,6145 93	-115,068	0	0,4355 25	1,4190 7
2	24,62 26	9,72284	0	874.23 8,89	61,345 3	0,5981 11	-102,563	0	0,4785 49	1,3342 5

2	25,64 29	10,2192	0	861.31 3,77	63,244 3	0,5921 92	-97,6148	0	0,4948 28	1,3063 4
2	25,64 29	10,2192	0	861.31 3,77	63,244 3	0,5921 92	-97,6148	0	0,4948 28	1,3063 4
2	29,22 31	12,1415	0	770.09 7,44	65,571	0,6287 34	-72,5828	0	0,5533 45	1,2063
2	29,90 02	12,5217	0	743.13 7,82	66,046 5	0,6552 17	-66,7607	0	0,5617 33	1,1908 2
2	29,90 02	12,5217	0	743.13 7,82	66,046 5	0,6552 17	-66,7607	0	0,5617 33	1,1908 2
2	34,74 37	15,3581	0	370.62 0,25	67,160 5	1,5573 8	-6,98439	0	0,6016 36	1,1246 2
2	41,36 84	19,9321	0	189.82 8,70	68,186 7	2,5229 4	10,1975	0	0,7634 72	1,1442 1
2	49,31 81	26,3293	0	154.34 0,87	68,611 6	2,924	13,1051	0	0,8266 38	1,1501 4
2	58,85 77	34,3379	0	144.17 6,37	69,017 9	3,0959 7	14,1981	0	0,8525 62	1,1516 3
2	70,30 53	44,2775	0	134.00 4,51	69,515 6	3,3129	15,2926	0	0,8839 57	1,1535 8
2	84,04 23	56,6782	0	123.14 8,10	70,128 3	3,5835 5	16,3492	0	0,9214 78	1,1559 3
2	100,5 27	72,2386	0	111.60 3,88	70,886 7	3,9228 9	17,3424	0	0,9663 98	1,1586 2
2	120,3 08	91,8883	0	99.672, 76	71,830 5	4,3509 8	18,2505	0	1,0203	1,1615 9
2	144,0 46	116,786	0	92.192, 90	73,008 5	4,7955 6	18,9721	0	1,0735 4	1,1640 7
2	169,0 1	148,128	0	84.852, 52	74,467 8	5,2622 1	20,1512	0	1,1268 6	1,1640 7
2	196,8 91	187,687	0	72.940, 77	76,279 5	5,8162	21,3932	0	1,1872 4	1,1636 3
2	230,9 64	237,784	0	60.666, 57	78,534 3	6,4682 2	22,3861	0	1,2547 8	1,1637 8
2	272,5 37	301,429	0	49.692, 51	81,347 1	7,2367 1	23,155	0	1,3302 6	1,1643 8
2	323,2 42	382,521	0	40.038, 80	84,863 4	8,1434 7	23,7326	0	1,4144 5	1,1652 8

2	354,368	434,508	0	35.557,55	87,0843	8,69118	23,9739	0	1,4631	1,16583
2	385,28	486,138	0	31.581,01	89,2676	9,21366	24,1531	0	1,50813	1,16634
2	459,907	618,884	0	24.617,27	94,7931	10,476	24,4495	0	1,61203	1,16746
2	551,086	789,361	0	18.761,63	101,735	11,9621	24,6516	0	1,72679	1,16854
2	661,975	1008,7	0	14.255,25	110,465	13,7074	24,7854	0	1,85296	1,16952
2	709,723	1104,61	0	13.314,29	114,222	14,4229	24,8217	0	1,90246	1,16985
3	39,863	-12,7307	0	1,00	0,00177245	0,782428	24,6246	0	0,614873	1,1739
3	39,963	-12,6915	0	708.320,92	1,7218	0,0117293	-109,442	0	0,341638	1,5392
3	40,063	-12,6579	0	737.708,36	2,39085	0,0205395	-114,864	0	0,333735	1,56641
3	40,163	-12,6247	0	752.518,31	2,91946	0,0289527	-117,664	0	0,329028	1,58164
3	40,263	-12,5921	0	765.210,72	3,37351	0,0368682	-120,135	0	0,324373	1,59597
3	40,363	-12,5599	0	775.780,92	3,77937	0,0443941	-122,201	0	0,320424	1,6084
3	40,463	-12,528	0	784.689,46	4,15213	0,0515861	-123,94	0	0,31713	1,61914
3	40,563	-12,4964	0	792.323,05	4,49943	0,0585078	-125,425	0	0,314369	1,62853
3	40,663	-12,4651	0	798.945,43	4,82798	0,0651726	-126,71	0	0,312048	1,63681
3	40,763	-12,434	0	804.753,55	5,14173	0,0716059	-127,832	0	0,31009	1,64415
3	40,863	-12,4031	0	809.892,85	5,4434	0,0778295	-128,823	0	0,308437	1,65073
3	40,963	-12,3723	0	814.475,54	5,73488	0,083864	-129,703	0	0,307038	1,65665
3	41,06	-	0	818.58	6,0175	0,0897	-130,492	0	0,3058	1,6620

	3	12,3417		9,63	9	269			56	1
3	41,16 3	- 12,3111	0	822.38 2,60	6,2926 6	0,0954 267	-131,218	0	0,3048 16	1,6670 1
3	41,26 3	- 12,2807	0	826.10 1,51	6,5612 4	0,1009 51	-131,932	0	0,3037 84	1,6719 9
3	41,36 3	- 12,2504	0	829.72 9,39	6,8240 9	0,1063 09	-132,63	0	0,3027 77	1,6769 3
3	41,46 3	- 12,2202	0	833.29 6,84	7,0819 6	0,1115 01	-133,318	0	0,3017 84	1,6818 5
3	41,56 3	-12,19	0	836.78 8,57	7,3353 8	0,1165 34	-133,991	0	0,3008 18	1,6867 2
3	41,66 3	-12,16	0	840.17 1,94	7,5847 6	0,1214 21	-134,642	0	0,2998 99	1,6914 9
3	41,76 3	-12,13	0	843.44 0,22	7,8305 3	0,1261 66	-135,271	0	0,2990 35	1,6961 3
3	41,86 3	- 12,1002	0	846.58 3,76	8,0729 8	0,1307 78	-135,874	0	0,2982 33	1,7006 3
3	41,98 3	- 12,0644	0	850.18 6,28	8,3598 7	0,1361 52	-136,564	0	0,2973 54	1,7058 1
3	42,12 7	- 12,0217	0	854.25 9,12	8,6989 4	0,1423 82	-137,341	0	0,2964 27	1,7117 2
3	42,29 98	- 11,9705	0	858.75 6,80	9,0991 8	0,1495 73	-138,195	0	0,2955 16	1,7182 8
3	42,50 71	- 11,9093	0	863.55 4,57	9,5712 9	0,1578 37	-139,099	0	0,2947 39	1,7252 9
3	42,75 6	-11,836	0	868.26 9,91	10,126 9	0,1673 66	-139,964	0	0,2943 57	1,7319 7
3	43,05 46	- 11,7482	0	872.62 3,09	10,780 1	0,1783 71	-140,706	0	0,2945 8	1,7374 4
3	43,41 29	- 11,6425	0	876.44 9,89	11,547 5	0,1911 12	-141,258	0	0,2955 42	1,7409 2
3	43,84 29	- 11,5151	0	879.75 2,98	12,448 7	0,2058 56	-141,604	0	0,2972 76	1,7421 3
3	44,35 88	- 11,3611	0	882.48 7,79	13,507 4	0,2228 45	-141,736	0	0,2998 5	1,7409 7
3	44,97 8	- 11,1743	0	884.56 0,29	14,763 6	0,2421 4	-141,623	0	0,3033 94	1,7371 1
3	45,72	-	0	885.91	16,291	0,2633	-141,234	0	0,3080	1,7302

	1	10,9471		4,31	9	71			56	4
3	46,61 26	- 10,6697	0	886.48 3,28	18,182 2	0,2860 63	-140,522	0	0,3140 8	1,7198 4
3	47,68 26	- 10,3296	0	886.20 2,26	20,520 3	0,3100 32	-139,432	0	0,3217 57	1,7053 7
3	48,96 65	- 9,91029	0	885.00 3,31	23,403 8	0,3351 21	-137,891	0	0,3314 26	1,6862 3
3	50,50 72	- 9,39054	0	882.89 9,47	26,941 9	0,3615 07	-135,863	0	0,3432 54	1,6623
3	52,35 6	- 8,74195	0	879.45 3,98	31,255 9	0,3868	-133,196	0	0,3586 58	1,6326 8
3	54,57 46	- 7,92597	0	875.13 6,08	36,470 8	0,4131 67	-129,939	0	0,3766 45	1,5982 6
3	57,23 7	- 6,89729	0	870.52 7,89	42,754 7	0,4432 04	-126,24	0	0,3956 99	1,5608 7
3	60,43 18	- 5,60101	0	865.82 3,34	50,301 7	0,4774 47	-122,148	0	0,4152 81	1,5214 4
3	64,26 55	- 3,96985	0	861.11 4,60	59,319 4	0,5159 54	-117,664	0	0,4351 03	1,4803 8
3	68,86 6	- 1,92059	0	855.39 7,12	70,004 4	0,5595 3	-112,562	0	0,4553 2	1,4369 6
3	73,00 81	2,28593 E-15	0	846.51 9,10	79,416 6	0,6004 62	-107,565	0	0,4717 82	1,4000 7
3	73,00 81	2,28593 E-15	0	849.90 0,20	78,384 8	0,4575 85	-108,772	0	0,6282 58	1,4076 7
3	74,38 67	0,84176	0	842.16 9,12	81,158 8	0,5140 34	-106,052	0	0,5956 89	1,3908
3	81,01 14	4,54971	0	814.55 9,76	94,962 4	0,6884 07	-96,3063	0	0,5403 31	1,3348 9
3	88,96 11	8,81296	0	777.30 8,19	110,89 4	0,8207 92	-84,8373	0	0,5372 1	1,2806 8
3	98,50 07	14,0165	0	698.00 6,21	126,80 4	1,0081 5	-65,6056	0	0,5563 9	1,2158 8
3	104,3 06	17,2997	0	591.41 2,10	132,06 6	1,2781 5	-44,1775	0	0,5767 12	1,169
3	104,3 06	17,2997	0	591.41 2,10	132,06 6	1,2781 5	-44,1775	0	0,5767 12	1,169
3	109,9	20,8969	0	293.60	133,47	2,3887	-	0	0,7343	1,1361

	48			6,94		5	0,132243		08	6
3	123,6 85	33,0506	0	138.64 0,92	135,19 6	3,9920 1	13,4927	0	0,9718 97	1,1554 8
3	140,1 7	49,5292	0	123.47 2,33	136,01 9	4,3720 6	14,9817	0	1,0205 5	1,1576
3	159,9 51	70,2636	0	109.27 5,54	137,03 4	4,8241 9	16,284	0	1,0753 1	1,1599 9
3	183,6 89	96,567	0	96.507, 76	138,29 6	5,3974 2	17,4488	0	1,1408 4	1,1627 3
3	209,9 46	129,903	0	87.809, 92	139,86 5	5,9268 8	18,2879	0	1,1982 6	1,1647
3	240,0 38	171,929	0	76.248, 97	141,80 5	6,5245 5	19,0034	0	1,2600 1	1,1665 9
3	276,5 72	225,044	0	64.542, 57	144,20 8	7,2283 3	20,161	0	1,3292 1	1,1665 6
3	320,8 6	292,393	0	53.991, 89	147,19 4	8,0558 3	21,455	0	1,4064 9	1,1657 2
3	374,5 29	378,012	0	44.614, 11	150,91 3	9,0240 2	22,4637	0	1,4918 2	1,1655 4
3	439,8 69	487,145	0	36.353, 82	155,55 3	10,156 2	23,2273	0	1,5862 5	1,1658 5
3	518,2 06	626,559	0	29.124, 06	161,35 2	11,481 3	23,7904	0	1,6904 3	1,1664 9
3	520,3 16	630,38	0	28.940, 74	161,50 9	11,516 1	23,802	0	1,6930 8	1,1665
3	613,6 82	805,511	0	22.964, 48	168,62 2	13,038 4	24,1935	0	1,8055 8	1,1673 2
3	728,9 14	1034,43	0	17.991, 91	177,71 3	14,846 7	24,4757	0	1,9311 5	1,1682 1
3	874,6 82	1328,44	0	13.848, 65	189,10 6	16,949 7	24,6667	0	2,0681	1,1691
3	1003, 77	1602,6	0	11.281, 48	199,50 1	18,740 1	24,7645	0	2,1782 5	1,1697 2
4	66,61 61	- 15,1257	0	1,00	0,0017 7245	0,7824 28	24,6246	0	0,6148 73	1,1739
4	66,71 61	- 15,0821	0	635.12 7,91	1,8562 5	0,0093 7182	-97,1273	0	0,3973 2	1,4896 9

4	66,81 61	- 15,0427	0	663.62 5,40	2,5853 1	0,0166 338	-102,471	0	0,3925 18	1,5129 7
4	66,91 61	- 15,0035	0	671.86 1,55	3,1584	0,0238 879	-103,915	0	0,3917 57	1,5190 8
4	67,01 61	- 14,9644	0	680.42 2,82	3,6509 8	0,0307 935	-105,617	0	0,3896 13	1,5274 2
4	67,11 61	- 14,9256	0	689.66 1,40	4,0914 8	0,0372 928	-107,52	0	0,3868 47	1,5372 7
4	67,21 61	-14,887	0	698.45 1,22	4,4942 5	0,0434 628	-109,338	0	0,3841 72	1,5469 6
4	67,31 61	- 14,8487	0	706.51 9,92	4,8686 4	0,0493 613	-111,003	0	0,3817 49	1,5560 2
4	67,41 61	- 14,8107	0	713.87 1,78	5,2202 7	0,0550 393	-112,514	0	0,3795 87	1,5643 9
4	67,51 61	- 14,7728	0	720.56 0,71	5,5541 3	0,0605 16	-113,883	0	0,3776 75	1,5721 1
4	67,61 61	- 14,7351	0	726.65 1,35	5,8744 5	0,0657 968	-115,123	0	0,3759 95	1,5792
4	67,71 61	- 14,6976	0	732.22 2,39	6,1828 5	0,0709 131	-116,253	0	0,3745 14	1,5857 5
4	67,81 61	- 14,6602	0	737.32 9,93	6,4814 1	0,0758 753	-117,284	0	0,3732 12	1,5918
4	67,91 61	-14,623	0	742.02 5,54	6,7712 6	0,0807 003	-118,229	0	0,3720 7	1,5974
4	68,01 61	- 14,5858	0	746.35 8,85	7,0534 2	0,0854 011	-119,098	0	0,3710 67	1,6026 1
4	68,11 61	- 14,5487	0	750.37 5,45	7,3285 4	0,0899 923	-119,9	0	0,3701 83	1,6074 7
4	68,21 61	- 14,5118	0	754.10 9,05	7,5974 1	0,0944 819	-120,645	0	0,3694 05	1,6120 2
4	68,31 61	- 14,4749	0	757.60 3,70	7,8607 6	0,0988 725	-121,34	0	0,3687 15	1,6163
4	68,41 61	- 14,4381	0	760.99 8,69	8,1192	0,1031 49	-122,015	0	0,3680 53	1,6205 1
4	68,51 61	- 14,4013	0	764.29 0,66	8,3734 8	0,1073 14	-122,67	0	0,3674 21	1,6246 3
4	68,61 61	- 14,3646	0	767.51 3,91	8,6240 4	0,1113 66	-123,311	0	0,3668 06	1,6287 1

4	68,73 61	- 14,3206	0	771.33 5,72	8,9199 1	0,1160 85	-124,072	0	0,3660 73	1,6336
4	68,88 01	-14,268	0	775.86 5,62	9,2692 8	0,1215 36	-124,975	0	0,3652	1,6394 8
4	69,05 29	-14,205	0	781.15 2,64	9,6807 5	0,1278 11	-126,027	0	0,3642	1,6464 2
4	69,26 03	- 14,1296	0	787.26 1,35	10,164 7	0,1349 82	-127,24	0	0,3630 87	1,6545 6
4	69,50 91	- 14,0393	0	794.19 1,66	10,733 1	0,1431 3	-128,609	0	0,3619 15	1,6639
4	69,80 77	- 13,9314	0	801.88 4,58	11,399 5	0,1523 36	-130,12	0	0,3607 72	1,6743 9
4	70,16 6	- 13,8023	0	810.21 0,02	12,180 4	0,1627 13	-131,716	0	0,3597 8	1,6855 6
4	70,59 6	- 13,6478	0	819.03 3,04	13,093 8	0,1744 57	-133,299	0	0,3590 64	1,6963 4
4	71,11 2	- 13,4625	0	828.14 3,00	14,162	0,1877 55	-134,784	0	0,3587 9	1,7058 5
4	71,73 11	- 13,2402	0	837.01 5,15	15,410 6	0,2029 17	-136,042	0	0,3592 6	1,7128 7
4	72,47 41	- 12,9726	0	844.78 7,82	16,868 5	0,2204 92	-136,884	0	0,3608 95	1,7157 3
4	73,36 58	- 12,6495	0	851.14 6,35	18,606 2	0,2404 86	-137,238	0	0,3638 69	1,7136 6
4	74,43 57	- 12,2578	0	856.06 4,37	20,756 8	0,2621 91	-137,065	0	0,3683 45	1,7061 7
4	75,71 96	-11,781	0	859.53 1,23	23,428 8	0,2854 74	-136,311	0	0,3745 68	1,6926 6
4	77,26 03	- 11,1978	0	861.58 3,25	26,727 8	0,3105 73	-134,938	0	0,3827	1,6729
4	79,10 91	-10,481	0	862.33 0,47	30,782 3	0,3377 97	-132,933	0	0,3927 75	1,6471 2
4	81,32 78	- 9,59633	0	861.93 5,08	35,744 6	0,3675 33	-130,309	0	0,4046 78	1,6159 3
4	83,99 01	- 8,50079	0	860.58 1,04	41,791 7	0,4001 63	-127,096	0	0,4181 98	1,5802 5
4	87,18 49	- 7,14061	0	858.45 7,83	49,120 3	0,4360 55	-123,324	0	0,4330 7	1,5409 7



4	91,01 87	-5,449 0	855.47 8,17	57,942 1	0,4757 24	-118,971 0	0,4490 63	1,4986 8
4	95,61 92	- 3,34165	848.69 4,29	68,457 7	0,5225 17	-113,517 0	0,4665 27	1,4519 3
4	101,1 4	- 0,71327 9	835.35 3,46	80,836 7	0,5805 84	-106,57 0	0,4852 59	1,4012
4	102,6 03	3,70773 E-13	830.94 6,56	84,054 8	0,5965 58	-104,671 0	0,4898 26	1,3887 7
4	102,6 03	3,70773 E-13	834.42 3,04	83,016 5	0,4669 34	-105,861 0	0,6342 8	1,3959
4	107,7 65	3,04353 0	808.22 2,11	93,475 7	0,6292 06	-97,2248 0	0,5622 65	1,3472 7
4	115,7 14	7,40664 0	772.49 5,58	109,51 4	0,7794 53	-86,2152 0	0,5433 61	1,2940 5
4	125,2 54	12,6248 0	709.87 4,81	126,56 3	0,9477 39	-70,2628 0	0,5536 37	1,2356 5
4	136,0 03	18,7098 0	524.72 9,05	137,27 6	1,4829 7	-33,7668 0	0,5833 36	1,1585 6
4	136,0 03	18,7098 0	524.72 9,05	137,27 6	1,4829 7	-33,7668 0	0,5833 36	1,1585 6
4	136,7 01	19,1187 0	483.49 9,29	137,43 5	1,6423 5	-26,7732 0	0,5876 11	1,1499
4	150,4 38	30,2016 0	143.53 4,87	140,25 1	3,8683 2	12,8349 0	0,9553 42	1,1553 9
4	166,9 23	46,8082 0	117.49 9,27	141,18 6	4,5027 9	15,1503 0	1,0362 1	1,1595 8
4	186,7 04	67,848 0	106.41 0,66	142,21 8	4,9610 2	16,399 0	1,0909 8	1,1617
4	208,6 03	94,524 0	95.185, 24	143,50 1	5,5421 5	17,5223 0	1,1565 8	1,1641 7
4	233,8 05	128,368 0	84.356, 75	145,09 5	6,1015 5	18,3547 0	1,2164 4	1,1660 5
4	264,3 72	171,02 0	72.487, 43	147,06 4	6,7094 2	19,0465 0	1,2784 1	1,1677 5
4	301,4 32	224,893 0	61.520, 87	149,50 2	7,4234 5	20,1578 0	1,3477 3	1,1676 3
4	346,3	293,156 0	51.536, 152,52	8,2621	21,434 0	1,4249	1,1666	

	21			41	9	7			1	3
4	400,6 57	379,878	0	42.611, 46	156,29 4	9,2408 6	22,4324	0	1,5103 6	1,1663
4	466,7 25	490,316	0	34.741, 57	160,98 8	10,384 5	23,1945	0	1,6046 3	1,1664 5
4	536,2 5	614,039	0	28.667, 36	166,13 8	11,563 9	23,7063	0	1,6967 1	1,1668 8
4	545,7 87	631,307	0	28.030, 19	166,84 8	11,721 6	23,76	0	1,7086 6	1,1669 5
4	642,0 31	811,872	0	22.174, 32	174,18 1	13,286 6	24,168	0	1,8232 9	1,1676 6
4	758,1 44	1042,93	0	17.414, 21	183,35	15,106 5	24,4557	0	1,9485 5	1,1684 5
4	905,1 21	1339,49	0	13.452, 67	194,83 4	17,220 4	24,6512	0	2,0851	1,1692 6
4	1009, 13	1561,06	0	11.412, 26	203,24 3	18,673 5	24,7358	0	2,1742 4	1,1697 4
5	93,41 84	- 16,7384	0	1,00	0,0017 7245	0,7824 28	24,6246	0	0,6148 73	1,1739
5	93,51 84	- 16,6928	0	599.03 7,69	1,9652 3	0,0085 3118	-91,1221	0	0,4212 05	1,4686
5	93,61 84	- 16,6509	0	626.40 8,38	2,7443 4	0,0152 365	-96,323	0	0,4176 25	1,4899 8
5	93,71 84	- 16,6092	0	633.57 4,81	3,3536 9	0,0220 134	-97,5536	0	0,4173 94	1,4946 7
5	93,81 84	- 16,5675	0	638.82 3,71	3,8782 9	0,0286 129	-98,5599	0	0,4166 85	1,4990 7
5	93,91 84	- 16,5259	0	646.47 9,61	4,3447 6	0,0348 266	-100,177	0	0,4146 52	1,5069 1
5	94,01 84	- 16,4845	0	654.50 2,10	4,7706 6	0,0407 096	-101,89	0	0,4124 04	1,5154 8
5	94,11 84	- 16,4434	0	662.24 9,44	5,1672	0,0463 02	-103,542	0	0,4102 54	1,5239 1
5	94,21 84	- 16,4025	0	669.52 8,19	5,5403 4	0,0516 522	-105,089	0	0,4082 81	1,5319 4
5	94,31 84	- 16,3617	0	676.29 6,06	5,8943	0,0567 979	-106,52	0	0,4065 01	1,5394 9

5	94,41 84	- 16,3212	0	682.56 8,80	6,2321 5	0,0617 688	-107,84	0	0,4049 01	1,5465 5
5	94,51 84	- 16,2808	0	688.38 0,58	6,5567 5	0,0665 803	-109,057	0	0,4034 69	1,5531 6
5	94,61 84	- 16,2405	0	693.77 1,37	6,8702 1	0,0712 462	-110,181	0	0,4021 89	1,5593 3
5	94,71 84	- 16,2003	0	698.78 0,28	7,1741 7	0,0757 788	-111,22	0	0,4010 45	1,5651
5	94,81 84	- 16,1603	0	703.44 4,60	7,4696 9	0,0801 923	-112,185	0	0,4000 23	1,5705 1
5	94,91 84	- 16,1203	0	707.79 7,60	7,7577 6	0,0844 964	-113,082	0	0,3991 11	1,5756
5	95,01 84	- 16,0804	0	711.86 8,07	8,0392 5	0,0886 986	-113,917	0	0,3982 96	1,5803 8
5	95,11 84	- 16,0407	0	715.68 3,04	8,3148 7	0,0928 061	-114,698	0	0,3975 7	1,5848 9
5	95,21 84	- 16,0009	0	719.26 5,61	8,5852 9	0,0968 239	-115,429	0	0,3969 23	1,5891 4
5	95,31 84	- 15,9613	0	722.64 5,48	8,8509 6	0,1007 57	-116,117	0	0,3963 45	1,5931 8
5	95,41 84	- 15,9217	0	725.85 6,92	9,1121 5	0,1046 1	-116,769	0	0,3958 21	1,5970 4
5	95,53 84	- 15,8742	0	729.52 1,34	9,4199 6	0,1091 34	-117,512	0	0,3952 52	1,6014 7
5	95,68 24	- 15,8173	0	733.81 0,73	9,7824 7	0,1143 92	-118,382	0	0,3945 91	1,6067 3
5	95,85 52	- 15,7492	0	738.97 7,93	10,208 5	0,1204 35	-119,433	0	0,3937 59	1,6131 8
5	96,06 26	- 15,6677	0	745.10 2,55	10,708 8	0,1273 35	-120,68	0	0,3927 59	1,6209 6
5	96,31 14	-15,57	0	752.31 8,67	11,295 4	0,1351 43	-122,146	0	0,3915 86	1,6302 9
5	96,61	- 15,4533	0	760.58 6,75	11,982 6	0,1439 19	-123,817	0	0,3903 23	1,6411 3
5	96,96 83	- 15,3137	0	769.80 3,02	12,787 2	0,1537 29	-125,666	0	0,3890 8	1,6533 8
5	97,39 83	- 15,1466	0	779.80 2,16	13,727 7	0,1646 81	-127,632	0	0,3879 92	1,6666

5	97,91 43	- 14,9467	0	790.38 9,15	14,825 2	0,1770 01	-129,578	0	0,3872 07	1,6793 9
5	98,53 35	-14,707	0	801.31 6,98	16,104 3	0,1909 24	-131,385	0	0,3868 97	1,6905 2
5	99,27 65	- 14,4194	0	812.30 0,04	17,595 8	0,2066 62	-132,973	0	0,3872 43	1,6991 7
5	100,1 68	- 14,0736	0	822.97 5,53	19,339 3	0,2244 87	-134,25	0	0,3884 47	1,7043 6
5	101,2 38	- 13,6565	0	832.26 1,04	21,429 2	0,2445 37	-134,97	0	0,3910 19	1,7039 5
5	102,5 22	- 13,1518	0	839.68 3,99	24,017 2	0,2663 67	-134,999	0	0,3953 03	1,6965 6
5	104,0 63	- 12,5382	0	845.19 7,63	27,223 7	0,2900 71	-134,276	0	0,4015 03	1,6816
5	105,9 11	- 11,7884	0	848.91 2,58	31,174 2	0,3159 86	-132,783	0	0,4096 89	1,6590 8
5	108,1 3	- 10,8683	0	851.03 5,05	36,020 8	0,3444 75	-130,541	0	0,4197 61	1,6297 3
5	110,7 92	- 9,73501	0	851.79 9,34	41,942 9	0,3758 97	-127,59	0	0,4315 18	1,5945 6
5	113,9 87	- 8,33512	0	851.43 1,92	49,136 4	0,4106 8	-123,972	0	0,4446 96	1,5547 3
5	117,8 21	- 6,60161	0	848.60 5,65	57,811 3	0,4505 62	-119,463	0	0,4593 34	1,5101 3
5	122,4 21	- 4,45071	0	840.90 9,97	68,183 8	0,4987 38	-113,708	0	0,4753 94	1,4608 1
5	127,9 42	- 1,77833	0	826.89 6,62	80,448 2	0,5583 33	-106,586	0	0,4923 21	1,4087 2
5	131,5 18	4,98738 E-13	0	815.45 4,97	88,219 4	0,5984 99	-101,896	0	0,5020 87	1,3788 1
5	131,5 18	4,98738 E-13	0	819.03 3,82	87,172 5	0,4777 37	-103,077	0	0,6368 86	1,3855 7
5	134,5 67	1,85261	0	801.74 4,46	93,231 4	0,5803 03	-97,6304	0	0,5859 26	1,3558 3
5	142,5 17	6,32298	0	765.15 9,19	109,19 1	0,7491 17	-86,5166	0	0,5506 58	1,3019 1
5	152,0 56	11,5754	0	709.54 6,84	126,74	0,9138 22	-72,0471	0	0,5543 2	1,2470 1

5	163,5 04	18,0326	0	577.73 5,74	141,46	1,2783 1	-44,4822	0	0,5760 59	1,1793 5
5	166,6 14	19,8439	0	460.46 4,12	141,68 7	1,7033 5	-24,0124	0	0,5995 72	1,1505 9
5	166,6 14	19,8439	0	460.46 4,12	141,68 7	1,7033 3	-24,0124	0	0,5995 8	1,1505 9
5	176,1 16	27,263	0	149.54 4,07	144,98	3,7523 6	12,1647	0	0,9393 04	1,1556 2
5	176,1 16	27,263	0	149.54 4,07	144,98	3,7521 9	12,1647	0	0,9393 45	1,1556 2
5	177,2 41	28,342	0	137.60 9,99	145,32 9	3,9754 3	13,1083	0	0,9688 26	1,1576 3
5	193,7 25	46,5748	0	77.390, 47	147,84 9	5,9100 4	17,4441	0	1,1950 7	1,1685 6
5	213,5 07	70,9584	0	69.092, 67	149,05 2	6,5424 8	18,2393	0	1,2607 3	1,1702 3
5	237,2 44	101,655	0	60.409, 56	150,52 3	7,1837 4	18,8673	0	1,3240 5	1,1715 7
5	265,7 29	140,304	0	52.874, 73	152,33 1	7,7709 2	19,3491	0	1,3796 2	1,1725 2
5	299,9 12	188,533	0	45.881, 75	154,54 3	8,4471 6	20,265	0	1,4410 1	1,1717 6
5	340,9 3	249,044	0	39.394, 42	157,26 1	9,23	21,2872	0	1,5090 8	1,1705
5	390,1 53	325,183	0	33.415, 06	160,61	10,134 1	22,1492	0	1,5842 2	1,1696 7
5	449,2 19	421,241	0	28.014, 91	164,74 5	11,181	22,8578	0	1,6671 9	1,1692 2
5	480,3 83	473,846	0	25.862, 65	166,97 5	11,719 8	23,1371	0	1,7084	1,1691 2
5	520,1	542,927	0	23.218, 35	169,86 8	12,398 5	23,4258	0	1,759	1,1690 9
5	605,1 56	696,923	0	18.781, 98	176,21 2	13,808 2	23,871	0	1,8599 4	1,1692
5	707,2 23	892,457	0	15.062, 73	184,08 5	15,442 3	24,21	0	1,9708	1,1694 9
5	829,7 04	1141,36	0	12.389, 65	193,87 5	17,333 6	24,459	0	2,0921 5	1,1699

5	859,77	1204,68	0	12.055,10	196,33	17,7874	24,5032	0	2,12028	1,17
5	862,711	1210,92	0	11.995,29	196,571	17,8316	24,5073	0	2,123	1,17001
6	119,487	-18,0146	0	1,00	0,00177245	0,782428	24,6246	0	0,614873	1,1739
6	119,587	-17,9677	0	572.345,90	2,04065	0,00803355	-86,6887	0	0,437386	1,45404
6	119,687	-17,9242	0	598.988,58	2,85329	0,0144205	-91,8057	0	0,434406	1,47426
6	119,787	-17,8808	0	605.854,36	3,4898	0,0208713	-92,9951	0	0,434301	1,4786
6	119,887	-17,8373	0	609.569,66	4,03313	0,0272709	-93,6676	0	0,43417	1,48122
6	119,987	-17,794	0	615.376,30	4,51954	0,0333327	-94,9035	0	0,432863	1,48692
6	120,087	-17,7508	0	622.419,06	4,96442	0,0390424	-96,4448	0	0,43103	1,49431
6	120,187	-17,7078	0	629.665,45	5,37739	0,0444598	-98,0338	0	0,429135	1,50209
6	120,287	-17,6649	0	636.684,95	5,76534	0,0496345	-99,5675	0	0,42734	1,50973
6	120,387	-17,6223	0	643.334,19	6,13372	0,054593	-101,013	0	0,425693	1,51704
6	120,487	-17,5798	0	649.577,50	6,48623	0,0593605	-102,363	0	0,424202	1,52395
6	120,587	-17,5375	0	655.422,32	6,82459	0,063969	-103,62	0	0,422856	1,53048
6	120,687	-17,4952	0	660.886,05	7,15009	0,068443	-104,79	0	0,42164	1,53663
6	120,787	-17,4531	0	666.001,54	7,46479	0,072793	-105,881	0	0,420542	1,54242
6	120,887	-17,4111	0	670.786,07	7,77076	0,0770206	-106,897	0	0,419555	1,54788
6	120,987	-17,3692	0	675.274,01	8,06894	0,0811384	-107,845	0	0,418667	1,55302
6	121,0	-	0	679.49	8,3600	0,0851	-108,734	0	0,4178	1,5578

	87	17,3274		1,44	6	569			66	8
6	121,1 87	- 17,2856	0	683.47 2,74	8,6443 8	0,0890 917	-109,569	0	0,4171 41	1,5625
6	121,2 87	- 17,2439	0	687.22 8,22	8,9229 3	0,0929 421	-110,355	0	0,4164 87	1,5668 8
6	121,3 87	- 17,2023	0	690.78 3,77	9,1959 6	0,0967 187	-111,097	0	0,4158 95	1,5710 4
6	121,4 87	- 17,1607	0	694.14 9,06	9,4642 8	0,1004 21	-111,797	0	0,4153 62	1,575
6	121,6 07	- 17,1109	0	697.96 6,82	9,7802 1	0,1047 78	-112,589	0	0,4147 89	1,5795 2
6	121,7 51	- 17,0512	0	702.33 5,67	10,151 9	0,1098 66	-113,493	0	0,4141 6	1,5847 3
6	121,9 24	- 16,9797	0	707.36 2,89	10,588 3	0,1157 73	-114,533	0	0,4134 57	1,5908
6	122,1 31	- 16,8941	0	713.33 6,75	11,100 3	0,1225 27	-115,769	0	0,4126 02	1,5981 4
6	122,3 8	- 16,7915	0	720.46 1,19	11,700 5	0,1301 59	-117,244	0	0,4115 55	1,6070 6
6	122,6 78	- 16,6688	0	728.85 5,06	12,403 5	0,1386 93	-118,978	0	0,4103 27	1,6177 9
6	123,0 37	-16,522	0	738.42 9,17	13,225 5	0,1481 91	-120,944	0	0,4090 29	1,6302 2
6	123,4 67	- 16,3463	0	748.98 0,95	14,184 1	0,1587 44	-123,089	0	0,4078 15	1,6440 9
6	123,9 83	- 16,1362	0	760.38 0,18	15,300 5	0,1704 94	-125,33	0	0,4067 93	1,6587 1
6	124,6 02	- 15,8845	0	772.37 0,02	16,602 4	0,1836 72	-127,489	0	0,4061 35	1,6722 8
6	125,3 45	- 15,5828	0	784.63 3,62	18,121 5	0,1984 99	-129,453	0	0,4060 33	1,6836 7
6	126,2 37	- 15,2205	0	796.82 1,08	19,890 9	0,2152 78	-131,131	0	0,4066 68	1,6919 6
6	127,3 06	- 14,7846	0	808.64 4,85	21,970 7	0,2341 39	-132,443	0	0,4082 01	1,6962 4
6	128,5 9	- 14,2588	0	819.63 2,26	24,511 2	0,2545 28	-133,244	0	0,4109 74	1,6950 2
6	130,1	-13,622	0	828.56	27,655	0,2767	-133,218	0	0,4156	1,6854

	31			4,66	2	39			39	8
6	131,9 8	- 12,8474	0	835.30 1,89	31,537 7	0,3011 3	-132,303	0	0,4223 45	1,6671 4
6	134,1 99	-11,901	0	839.99 8,82	36,308 4	0,3281 27	-130,497	0	0,4310 36	1,6403 9
6	136,8 61	- 10,7395	0	842.90 8,92	42,139 6	0,3582 18	-127,842	0	0,4415 13	1,6062 9
6	140,0 56	-9,3095	0	843.64 8,78	49,229 6	0,3923 63	-124,286	0	0,4536 23	1,5657 1
6	143,8 89	- 7,54387	0	840.51 9,56	57,795 1	0,4328 08	-119,583	0	0,4673 43	1,5189 8
6	148,4 9	- 5,35905	0	832.54 7,55	68,068 2	0,4816 54	-113,684	0	0,4821 99	1,4681 9
6	154,0 11	- 2,65292	0	818.49 9,33	80,259 3	0,5416 66	-106,503	0	0,4977 65	1,4153 1
6	159,2 69	1,65531 E-12	0	801.25 2,94	91,609 7	0,6013 26	-99,5975	0	0,5107 18	1,3719 9
6	159,2 69	1,65531 E-12	0	804.93 7,10	90,552 4	0,4867 54	-100,772	0	0,6383 7	1,3784 6
6	160,6 35	0,85224 2	0	796.51 7,82	93,225 2	0,5355 28	-98,178	0	0,6114 88	1,3645 2
6	168,5 85	5,43227	0	758.31 4,97	109,07 7	0,7228 87	-86,663	0	0,5578 74	1,3083 1
6	178,1 25	10,724	0	706.75 1,68	126,92 3	0,8874 82	-73,0172	0	0,5558 55	1,2551 9
6	189,5 72	17,173	0	597.53 0,56	143,47	1,1900 9	-49,4478	0	0,5728 06	1,1928 2
6	195,7 26	20,7645	0	417.20 5,55	145,63 3	1,8285 7	-17,8023	0	0,6264 02	1,1470 4
6	195,7 26	20,7645	0	417.20 5,55	145,63 3	1,8285 8	-17,8023	0	0,6263 97	1,1470 4
6	203,3 09	26,6074	0	169.72 6,73	148,25 6	3,4618 1	10,6157	0	0,8994 48	1,1534 8
6	204,3 68	27,5749	0	155.34 2,96	148,60 9	3,6808 8	11,7943	0	0,9296 54	1,1556 2
6	204,3 68	27,5749	0	155.34 2,96	148,60 9	3,6809	11,7943	0	0,9296 49	1,1556 2
6	219,7	44,1566	0	79.337,	151,32	5,6985	17,1436	0	1,1722	1,1680



	94			37	3	7			2	9
6	239,5 75	68,259	0	64.966, 20	152,56	6,4278 3	18,1071	0	1,2490 2	1,1701 6
6	263,3 13	98,6871	0	54.873, 76	154,02 1	7,0792 2	18,7737	0	1,3139 4	1,1715 4
6	291,7 98	136,933	0	47.266, 74	155,81 7	7,6725 4	19,2785	0	1,3704 5	1,1725
6	325,9 8	184,838	0	40.411, 67	158,01 8	8,3470 5	20,1115	0	1,4321 1	1,1720 8
6	366,9 99	245,004	0	34.160, 97	160,72 4	9,1294 6	21,1738	0	1,5004 7	1,1707 2
6	416,2 21	320,742	0	28.509, 97	164,05 8	10,033 5	22,0663	0	1,5758 4	1,1698 1
6	475,2 88	416,316	0	23.433, 72	168,17 8	11,079 1	22,7998	0	1,6592 7	1,1693
6	510,9 3	476,297	0	21.090, 20	170,72 1	11,694 3	23,1258	0	1,7064 8	1,1691 7
6	546,1 68	537,396	0	19.064, 91	173,28	12,295 1	23,3863	0	1,7513 8	1,1691 3
6	631,2 24	690,761	0	15.242, 94	179,60 3	13,704	23,8444	0	1,8526 6	1,1692 1
6	733,2 92	885,58	0	12.019, 01	187,45 4	15,337 2	24,1923	0	1,9638 5	1,1694 8
6	855,7 73	1133,68	0	9.294,4 7	197,21 9	17,227 3	24,4475	0	2,0855 1	1,1698 8
6	892,4 99	1210,91	0	8.727,0 4	200,21 3	17,780 8	24,5021	0	2,1198 8	1,17
7	144,9 94	- 19,0617	0	1,00	0,0017 7245	0,7824 28	24,6246	0	0,6148 73	1,1739
7	145,0 94	- 19,0139	0	551.19 1,55	2,1118 7	0,0076 781	-83,1926	0	0,4494 03	1,4431 8
7	145,1 94	- 18,9692	0	577.02 6,18	2,9553 3	0,0138 417	-88,2037	0	0,4469 13	1,4624 3
7	145,2 94	- 18,9245	0	583.74 6,22	3,6137 1	0,0200 841	-89,3751	0	0,4468 1	1,4665 6
7	145,3 94	- 18,8798	0	586.82 0,48	4,1780 7	0,0262 893	-89,9093	0	0,4468 81	1,4684 5

7	145,4	-	0	591.22	4,6811	0,0322	-90,8431	0	0,4460	1,4725
	94	18,8352		5,68	1	527			9	7
7	145,5	-	0	597.30	5,1413	0,0378	-92,1975	0	0,4446	1,4788
	94	18,7906		6,48		725			11	7
7	145,6	-	0	603.99	5,5686	0,0431	-93,6972	0	0,4429	1,4859
	94	18,7462		7,16	7	886			37	9
7	145,7	-18,702	0	610.70	5,9699	0,0482	-95,1965	0	0,4412	1,4932
	94			5,76	7	517			91	4
7	145,8	-18,658	0	617.18	6,3500	0,0531	-96,6378	0	0,4397	1,5003
	94			7,74	8	021			48	
7	145,9	-	0	623.35	6,7126	0,0577	-98,0019	0	0,4383	1,5070
	94	18,6141		6,11	3	69			28	7
7	146,0	-	0	629.19	7,0603	0,0622	-99,2855	0	0,4370	1,5135
	94	18,5703		0,27	4	767			26	2
7	146,1	-	0	634.69	7,3951	0,0666	-100,491	0	0,4358	1,5196
	94	18,5267		4,58	7	446			37	4
7	146,2	-	0	639.88	7,7188	0,0708	-101,621	0	0,4347	1,5254
	94	18,4831		3,38	5	862			54	6
7	146,3	-	0	644.77	8,0330	0,0750	-102,682	0	0,4337	1,5309
	94	18,4397		5,35	5	097			7	6
7	146,4	-	0	649.39	8,3391	0,0790	-103,678	0	0,4328	1,5361
	94	18,3964		0,59	2	232			76	9
7	146,5	-	0	653.74	8,6379	0,0829	-104,615	0	0,4320	1,5411
	94	18,3531		8,48	6	357			65	5
7	146,6	-	0	657.86	8,9301	0,0867	-105,497	0	0,4313	1,5458
	94	18,3099		7,90	6	568			29	7
7	146,7	-	0	661.76	9,2162	0,0904	-106,329	0	0,4306	1,5503
	94	18,2669		7,02	9	94			62	5
7	146,8	-	0	665.46	9,4968	0,0941	-107,115	0	0,4300	1,5546
	94	18,2238		2,97	9	534			58	2
7	146,9	-	0	668.97	9,7723	0,0977	-107,859	0	0,4295	1,5587
	94	18,1808		2,30	9	41			09	
7	147,1	-	0	672.95	10,096	0,1019	-108,701	0	0,4289	1,5633
	14	18,1293		6,10	9	57			19	5
7	147,2	-	0	677.43	10,478	0,1068	-109,645	0	0,4282	1,5686
	58	18,0676		7,95	4	96			98	1
7	147,4	-	0	682.48	10,926	0,1126	-110,706	0	0,4276	1,5745
	31	17,9937		7,94	2	49			44	8

7	147,638	-17,9051	0	688.308,19	11,4509	0,119274	-111,927	0	0,426907	1,58157
7	147,887	-17,799	0	695.270,13	12,0647	0,126775	-113,389	0	0,425995	1,5901
7	148,186	-17,672	0	703.565,45	12,7824	0,13516	-115,13	0	0,424886	1,60047
7	148,544	-17,52	0	713.143,20	13,6206	0,144491	-117,132	0	0,423659	1,61268
7	148,974	-17,3381	0	723.981,22	14,5988	0,15477	-119,379	0	0,422409	1,62673
7	149,49	-17,1204	0	735.803,77	15,739	0,166097	-121,79	0	0,421312	1,64213
7	150,109	-16,8597	0	748.382,43	17,0648	0,178735	-124,183	0	0,420521	1,65716
7	150,852	-16,5474	0	761.460,84	18,6054	0,192925	-126,433	0	0,420189	1,67056
7	151,744	-16,1727	0	774.676,29	20,3965	0,20895	-128,423	0	0,420497	1,68117
7	152,814	-15,7223	0	787.644,10	22,4829	0,227121	-130,043	0	0,421622	1,68784
7	154,098	-15,1797	0	799.971,30	24,9847	0,247157	-131,188	0	0,423775	1,68945
7	155,638	-14,5239	0	811.126,94	28,0835	0,268547	-131,672	0	0,427386	1,68407
7	157,487	-13,7288	0	820.644,72	31,916	0,291647	-131,339	0	0,432793	1,67026
7	159,706	-12,7606	0	827.957,92	36,6305	0,31722	-130,029	0	0,440244	1,64695
7	162,368	-11,576	0	832.504,84	42,3976	0,346325	-127,628	0	0,449763	1,61418
7	165,563	-10,1209	0	833.710,14	49,4146	0,380269	-124,081	0	0,461133	1,57312
7	169,397	-8,3282	0	830.937,09	57,9078	0,420564	-119,368	0	0,473971	1,52582
7	173,997	-6,11522	0	823.350,81	68,1173	0,469162	-113,464	0	0,487841	1,47446
7	179,518	-3,38095	0	809.735,52	80,2676	0,528772	-106,289	0	0,502368	1,42108

7	186,143	-0,00158596	0	788.128,99	94,4963	0,603826	-97,6357	0	0,517327	1,36716
7	186,146	1,11109E-12	0	788.117,71	94,5028	0,603862	-97,6317	0	0,517333	1,36714
7	186,146	1,11109E-12	0	791.905,97	93,4335	0,494048	-98,8029	0	0,63942	1,37338
7	194,092	4,69092	0	751.551,94	109,153	0,699908	-86,6676	0	0,564986	1,31363
7	203,632	10,055	0	690.683,44	126,832	0,852669	-70,6106	0	0,566652	1,25165
7	215,079	16,6591	0	539.342,30	141,017	1,22627	-39,3786	0	0,587497	1,17748
7	221,582	20,7645	0	271.347,00	141,209	2,36034	0,322796	0	0,7311	1,14608
7	221,582	20,7645	0	271.347,00	141,209	2,36062	0,322796	0	0,731013	1,14608
7	226,455	24,7185	0	164.377,16	142,803	3,35456	10,8229	0	0,885725	1,15562
7	226,455	24,7185	0	164.377,16	142,803	3,35448	10,8229	0	0,885747	1,15562
7	228,817	26,8815	0	138.359,28	143,473	3,78702	12,9773	0	0,94511	1,15944
7	245,301	44,4965	0	78.946,69	145,568	5,45406	17,1568	0	1,14649	1,16868
7	265,082	67,8146	0	65.525,72	146,72	6,01658	17,996	0	1,20702	1,17013
7	288,82	97,2468	0	53.742,46	148,134	6,65717	18,7133	0	1,27277	1,17154
7	317,305	134,339	0	45.016,77	149,877	7,24255	19,2506	0	1,33013	1,17252
7	351,487	180,87	0	37.382,89	152,018	7,90131	20,0912	0	1,39195	1,17215
7	392,506	239,395	0	30.637,59	154,654	8,66782	21,1958	0	1,46064	1,17074
7	441,728	313,185	0	24.763,98	157,909	9,55458	22,113	0	1,53651	1,16975
7	500,7	406,451	0	19.699,	161,93	10,583	22,8576	0	1,6203	1,1692

	95			14	7	1			9	4
7	530,3 07	454,853	0	17.757, 35	163,99 5	11,085 4	23,134	0	1,6598 7	1,1691 3
7	571,6 75	524,867	0	15.535, 94	166,93 6	11,782 2	23,4453	0	1,7131 7	1,1690 9
7	656,7 32	675,013	0	11.992, 08	173,14	13,172 6	23,8988	0	1,8151 3	1,1692 1
7	758,7 99	866,031	0	9.143,6 5	180,85 4	14,787 2	24,239	0	1,9271 2	1,1695
7	881,2 8	1109,65	0	6.838,7 5	190,46 3	16,659 5	24,4861	0	2,0496 9	1,1699 2
7	903,9 67	1156,4	0	6.569,4 4	192,28 1	16,999 1	24,5194	0	2,0711 9	1,17
8	153,6 27	- 19,3831	0	1,00	0,0017 7245	0,7824 28	24,6246	0	0,6148 73	1,1739
8	153,7 27	-19,335	0	544.72 5,12	2,1278 4	0,0075 8255	-82,1209	0	0,4529 05	1,4399 2
8	153,8 27	- 19,2899	0	570.35 9,18	2,9785	0,0136 813	-87,1113	0	0,4505 35	1,4589 5
8	153,9 27	- 19,2448	0	577.02 4,83	3,6421	0,0198 616	-88,2765	0	0,4504 47	1,4630 2
8	154,0 27	- 19,1998	0	579.91 6,12	4,2109 2	0,0260 149	-88,7708	0	0,4505 72	1,4647 1
8	154,1 27	- 19,1548	0	583.89 7,95	4,7177 4	0,0319 525	-89,6114	0	0,4499 25	1,4683 5
8	154,2 27	- 19,1098	0	589.68 5,11	5,1814 6	0,0375 482	-90,9076	0	0,4485 47	1,4743 3
8	154,3 27	-19,065	0	596.19 4,55	5,6120 7	0,0428 387	-92,3769	0	0,4469 38	1,4812 5
8	154,4 27	- 19,0204	0	602.79 8,08	6,0163 9	0,0478 731	-93,8634	0	0,4453 36	1,4883 7
8	154,5 27	-18,976	0	609.21 7,75	6,3992 5	0,0526 935	-95,3012	0	0,4438 26	1,4953 5
8	154,6 27	- 18,9317	0	615.35 1,69	6,7643 6	0,0573 295	-96,6674	0	0,4424 3	1,5020 7
8	154,7 27	- 18,8875	0	621.17 0,46	7,1145	0,0618 045	-97,9565	0	0,4411 49	1,5084 8

8	154,8 27	- 18,8434	0	626.66 8,55	7,4520 9	0,0661 332	-99,1682	0	0,4399 8	1,5145 9
8	154,9 27	- 18,7995	0	631.85 3,82	7,7790 6	0,0703 273	-100,305	0	0,4389 2	1,5203 7
8	155,0 27	- 18,7557	0	636.74 7,64	8,0963 4	0,0744 047	-101,373	0	0,4379 58	1,5258 6
8	155,1 27	- 18,7119	0	641.37 8,79	8,4043 8	0,0783 857	-102,379	0	0,4370 75	1,5311
8	155,2 27	- 18,6682	0	645.75 8,79	8,7046 5	0,0822 712	-103,328	0	0,4362 69	1,5360 7
8	155,3 27	- 18,6247	0	649.90 7,56	8,9978 9	0,0860 697	-104,223	0	0,4355 35	1,5408 1
8	155,4 27	- 18,5811	0	653.83 9,07	9,2851 5	0,0897 821	-105,068	0	0,4348 66	1,5453 2
8	155,5 27	- 18,5377	0	657.56 9,28	9,5671 2	0,0934 127	-105,867	0	0,4342 59	1,5496 2
8	155,6 27	- 18,4943	0	661.11 5,34	9,8439 6	0,0969 714	-106,624	0	0,4337 07	1,5537 3
8	155,7 47	- 18,4423	0	665.14 1,85	10,170 6	0,1011 44	-107,48	0	0,4331 12	1,5584 1
8	155,8 91	-18,38	0	669.67 7,05	10,554 6	0,1060 33	-108,442	0	0,4324 86	1,5637 2
8	156,0 64	- 18,3053	0	674.75 2,07	11,005 4	0,1117 3	-109,513	0	0,4318 39	1,5697
8	156,2 71	- 18,2158	0	680.48 4,03	11,533 3	0,1183 23	-110,721	0	0,4311 55	1,5765 2
8	156,5 2	- 18,1087	0	687.30 3,99	12,150 5	0,1258 05	-112,16	0	0,4303 12	1,5848 2
8	156,8 18	- 17,9804	0	695.51 4,64	12,871 3	0,1341 68	-113,894	0	0,4292 46	1,5950 4
8	157,1 77	- 17,8268	0	705.14 7,49	13,712 8	0,1434 34	-115,921	0	0,4280 15	1,6072 8
8	157,6 07	-17,643	0	716.07 3,95	14,694 8	0,1536 42	-118,202	0	0,4267 48	1,6214
8	158,1 23	- 17,4231	0	728.07 8,60	15,839 5	0,1648 64	-120,672	0	0,4256 01	1,6370 5
8	158,7 42	- 17,1599	0	740.87 5,34	17,171 8	0,1773 34	-123,147	0	0,4247 44	1,6525 7

8	159,4 85	- 16,8444	0	754.14 9,88	18,721 6	0,1913 21	-125,468	0	0,4243 48	1,6664 2
8	160,3 76	- 16,4659	0	767.59 6,20	20,522 8	0,2071 14	-127,536	0	0,4245 72	1,6775 8
8	161,4 46	- 16,0111	0	780.88 8,93	22,616 2	0,2250 48	-129,258	0	0,4255 64	1,6850 6
8	162,7 3	- 15,4636	0	793.63 4,58	25,118 5	0,2448 83	-130,516	0	0,4275 54	1,6876
8	164,2 71	- 14,8024	0	805.31 4,04	28,196 4	0,2662 17	-131,144	0	0,4308 92	1,6834 8
8	166,1 2	- 14,0013	0	815.34 3,04	32,008 9	0,2891 94	-130,947	0	0,4359 89	1,6708 5
8	168,3 38	- 13,0263	0	823.12 5,90	36,708 3	0,3145 53	-129,748	0	0,4431 37	1,6484 7
8	171,0 01	- 11,8343	0	828.10 0,46	42,458 8	0,3434 42	-127,431	0	0,4523 56	1,6162 8
8	174,1 96	- 10,3714	0	829.71 2,80	49,458 6	0,3771 74	-123,942	0	0,4634 09	1,5754 9
8	178,0 29	- 8,57046	0	827.31 3,24	57,934 9	0,4172 7	-119,265	0	0,4759 25	1,5281 6
8	182,6 3	-6,3491	0	820.07 3,22	68,124 5	0,4656 8	-113,381	0	0,4894 76	1,4766 5
8	188,1 5	- 3,60686	0	806.74 5,22	80,251 1	0,5250 78	-106,222	0	0,5036 88	1,4230 9
8	194,7 75	- 0,22028 9	0	785.27 7,82	94,467	0,5993 23	-97,5575	0	0,5185 58	1,3689
8	195,2	1,39101 E-15	0	783.69 2,30	95,360 1	0,6041 65	-96,9912	0	0,5194 84	1,3657
8	195,2	1,39101 E-15	0	787.52 1,89	94,285 7	0,4957 94	-98,1635	0	0,6400 4	1,3718 9
8	202,7 25	4,49811	0	737.56 8,76	108,84 6	0,6753 54	-83,7202	0	0,5781 51	1,3035 7
8	212,2 65	9,99453	0	651.58 7,46	125,11 6	0,8574 84	-63,2706	0	0,5785 89	1,2345 4
8	223,7 12	16,7012	0	453.50 8,77	135,79 4	1,4477 3	-25,6547	0	0,5947 65	1,1624 8
8	229,7	20,7645	0	223.72	135,78	2,6118	4,77304	0	0,7733	1,1513

	56			6,60	7	6			07	6
8	229,7 56	20,7645	0	223.72 6,60	135,78 7	2,6119 4	4,77304	0	0,7732 85	1,1513 6
8	232,2 18	22,7595	0	175.16 1,22	136,54 3	3,0841	9,38502	0	0,8466 2	1,1556 2
8	232,2 18	22,7595	0	175.16 1,22	136,54 3	3,0841 1	9,38502	0	0,8466 18	1,1556 2
8	237,4 49	27,516	0	123.37 2,09	137,80 1	3,9336 5	13,8116	0	0,9644 99	1,1624 8
8	253,9 34	44,9957	0	79.268, 93	139,34	5,1936 9	16,9422	0	1,1176 1	1,1687 2
8	273,7 15	67,7333	0	64.957, 26	140,45 5	5,6940 8	17,7912	0	1,1728 2	1,1699 6
8	297,4 53	96,3628	0	51.447, 10	141,83	6,3174 6	18,5692	0	1,2385 1	1,1713 7
8	325,9 38	132,498	0	41.569, 23	143,53	6,8961 1	19,152	0	1,2966 3	1,1723 7
8	360,1 2	177,884	0	33.331, 54	145,62	7,5402 4	19,912	0	1,3583 8	1,1724 1
8	401,1 39	235,043	0	26.379, 74	148,19 8	8,2931 2	21,0894	0	1,4273 4	1,1708 1
8	450,3 61	307,209	0	20.600, 96	151,38 7	9,1626 8	22,0591	0	1,5040 7	1,1697 7
8	509,4 28	398,543	0	15.868, 90	155,33 7	10,178 7	22,8384	0	1,5879 9	1,1692 1
8	541,4 06	450,011	0	14.057, 94	157,52 9	10,715 6	23,1468	0	1,6309 3	1,1690 8
8	580,3 08	514,655	0	12.118, 49	160,24 8	11,362 3	23,4466	0	1,6812 6	1,1690 5
8	665,3 64	662,106	0	9.033,7 5	166,35 1	12,737	23,9106	0	1,7838	1,1691 7
8	767,4 32	849,966	0	6.685,6 9	173,95 1	14,336	24,2547	0	1,8964 7	1,1694 8
8	889,9 13	1089,89	0	4.885,3 8	183,43	16,192 8	24,5019	0	2,0198 1	1,1699 2
8	916,5 78	1144,09	0	4.651,0 0	185,54 2	16,588 8	24,5407	0	2,0452	1,1700 1



9	153,6 28	- 19,3831	0	0,99	0,0017 7245	0,7824 28	24,6246	0	0,6148 73	1,1739
9	153,7 28	-19,335	0	540.95 1,10	2,1278 4	0,0075 8255	-82,1209	0	0,4529 05	1,4399 2
9	153,8 28	- 19,2899	0	566.40 7,57	2,9785	0,0136 813	-87,1113	0	0,4505 35	1,4589 5
9	153,9 28	- 19,2448	0	573.02 7,03	3,6421	0,0198 616	-88,2765	0	0,4504 47	1,4630 2
9	154,0 28	- 19,1998	0	575.89 8,29	4,2109 2	0,0260 149	-88,7708	0	0,4505 72	1,4647 1
9	154,1 28	- 19,1548	0	579.85 2,53	4,7177 4	0,0319 525	-89,6114	0	0,4499 25	1,4683 5
9	154,2 28	- 19,1098	0	585.59 9,60	5,1814 6	0,0375 482	-90,9076	0	0,4485 47	1,4743 3
9	154,3 28	-19,065	0	592.06 3,93	5,6120 7	0,0428 387	-92,3769	0	0,4469 38	1,4812 5
9	154,4 28	- 19,0204	0	598.62 1,71	6,0163 9	0,0478 731	-93,8634	0	0,4453 36	1,4883 7
9	154,5 28	-18,976	0	604.99 6,91	6,3992 5	0,0526 935	-95,3012	0	0,4438 26	1,4953 5
9	154,6 28	- 18,9317	0	611.08 8,35	6,7643 6	0,0573 295	-96,6674	0	0,4424 3	1,5020 7
9	154,7 28	- 18,8875	0	616.86 6,80	7,1145	0,0618 045	-97,9565	0	0,4411 49	1,5084 8
9	154,8 28	- 18,8434	0	622.32 6,80	7,4520 9	0,0661 332	-99,1682	0	0,4399 8	1,5145 9
9	154,9 28	- 18,7995	0	627.47 6,15	7,7790 6	0,0703 273	-100,305	0	0,4389 2	1,5203 7
9	155,0 28	- 18,7557	0	632.33 6,07	8,0963 4	0,0744 047	-101,373	0	0,4379 58	1,5258 6
9	155,1 28	- 18,7119	0	636.93 5,12	8,4043 8	0,0783 857	-102,379	0	0,4370 75	1,5311
9	155,2 28	- 18,6682	0	641.28 4,78	8,7046 5	0,0822 712	-103,328	0	0,4362 69	1,5360 7
9	155,3 28	- 18,6247	0	645.40 4,81	8,9978 9	0,0860 697	-104,223	0	0,4355 35	1,5408 1
9	155,4 28	- 18,5811	0	649.30 9,08	9,2851 5	0,0897 821	-105,068	0	0,4348 66	1,5453 2

9	155,5 28	- 18,5377	0	653.01 3,44	9,5671 2	0,0934 127	-105,867	0	0,4342 59	1,5496 2
9	155,6 28	- 18,4943	0	656.53 4,93	9,8439 6	0,0969 714	-106,624	0	0,4337 07	1,5537 3
9	155,7 48	- 18,4423	0	660.53 3,55	10,170 6	0,1011 44	-107,48	0	0,4331 12	1,5584 1
9	155,8 92	-18,38	0	665.03 7,32	10,554 6	0,1060 33	-108,442	0	0,4324 86	1,5637 2
9	156,0 65	- 18,3053	0	670.07 7,18	11,005 4	0,1117 3	-109,513	0	0,4318 39	1,5697
9	156,2 72	- 18,2158	0	675.76 9,43	11,533 3	0,1183 23	-110,721	0	0,4311 55	1,5765 2
9	156,5 21	- 18,1087	0	682.54 2,14	12,150 5	0,1258 05	-112,16	0	0,4303 12	1,5848 2
9	156,8 19	- 17,9804	0	690.69 5,91	12,871 3	0,1341 68	-113,894	0	0,4292 46	1,5950 4
9	157,1 78	- 17,8268	0	700.26 2,02	13,712 8	0,1434 34	-115,921	0	0,4280 15	1,6072 8
9	157,6 08	-17,643	0	711.11 2,78	14,694 8	0,1536 42	-118,202	0	0,4267 48	1,6214
9	158,1 24	- 17,4231	0	723.03 4,26	15,839 5	0,1648 64	-120,672	0	0,4256 01	1,6370 5
9	158,7 43	- 17,1599	0	735.74 2,33	17,171 8	0,1773 34	-123,147	0	0,4247 44	1,6525 7
9	159,4 86	- 16,8444	0	748.92 4,91	18,721 6	0,1913 21	-125,468	0	0,4243 48	1,6664 2
9	160,3 77	- 16,4659	0	762.27 8,07	20,522 8	0,2071 14	-127,536	0	0,4245 72	1,6775 8
9	161,4 47	- 16,0111	0	775.47 8,70	22,616 2	0,2250 48	-129,258	0	0,4255 64	1,6850 6
9	162,7 31	- 15,4636	0	788.13 6,04	25,118 5	0,2448 83	-130,516	0	0,4275 54	1,6876
9	164,2 72	- 14,8024	0	799.73 4,59	28,196 4	0,2662 17	-131,144	0	0,4308 92	1,6834 8
9	166,1 21	- 14,0013	0	809.69 4,10	32,008 9	0,2891 94	-130,947	0	0,4359 89	1,6708 5
9	168,3 39	- 13,0263	0	817.42 3,04	36,708 3	0,3145 53	-129,748	0	0,4431 37	1,6484 7

9	171,0 02	- 11,8343	0	822.36 3,14	42,458 8	0,3434 42	-127,431	0	0,4523 56	1,6162 8
9	174,1 97	- 10,3714	0	823.96 4,30	49,458 6	0,3771 74	-123,942	0	0,4634 09	1,5754 9
9	178,0 3	- 8,57046	0	821.58 1,36	57,934 9	0,4172 7	-119,265	0	0,4759 25	1,5281 6
9	182,6 31	-6,3491	0	814.39 1,51	68,124 5	0,4656 8	-113,381	0	0,4894 76	1,4766 5
9	188,1 51	- 3,60686	0	801.15 5,85	80,251 1	0,5250 78	-106,222	0	0,5036 88	1,4230 9
9	194,7 76	- 0,22028 9	0	779.83 7,18	94,467	0,5993 23	-97,5575	0	0,5185 58	1,3689
9	195,2 01	1,39101 E-15	0	778.26 2,65	95,360 1	0,6041 65	-96,9912	0	0,5194 84	1,3657
9	195,2 01	1,39101 E-15	0	782.06 5,71	94,285 7	0,4957 94	-98,1635	0	0,6400 4	1,3718 9
9	202,7 26	4,49811	0	732.45 8,66	108,84 6	0,6753 54	-83,7202	0	0,5781 51	1,3035 7
9	212,2 66	9,99453	0	647.07 3,07	125,11 6	0,8574 84	-63,2706	0	0,5785 89	1,2345 4
9	223,7 13	16,7012	0	450.36 6,72	135,79 4	1,4477 3	-25,6547	0	0,5947 65	1,1624 8
9	229,7 57	20,7645	0	222.17 6,56	135,78 7	2,6118 6	4,77304	0	0,7733 07	1,1513 6
9	229,7 57	20,7645	0	222.17 6,56	135,78 7	2,6119 4	4,77304	0	0,7732 85	1,1513 6
9	232,2 19	22,7595	0	177.05 8,59	136,54 3	3,0841	9,38502	0	0,8466 2	1,1556 2
9	232,2 19	22,7595	0	177.05 8,59	136,54 3	3,0841 1	9,38502	0	0,8466 18	1,1556 2
9	237,4 5	27,516	0	122.04 9,47	137,80 1	3,9336 5	13,8116	0	0,9644 99	1,1624 8
9	253,9 35	44,9957	0	76.669, 71	139,34	5,1936 9	16,9422	0	1,1176 1	1,1687 2
9	273,7 16	67,7333	0	61.658, 62	140,45 5	5,6940 8	17,7912	0	1,1728 2	1,1699 6
9	297,4	96,3628	0	48.775,	141,83	6,3174	18,5692	0	1,2385	1,1713

	54			44		6			1	7
9	325,9 39	132,498	0	39.470, 53	143,53	6,8961 1	19,152	0	1,2966 3	1,1723 7
9	360,1 21	177,884	0	31.634, 46	145,62	7,5402 4	19,912	0	1,3583 8	1,1724 1
9	401,1 4	235,043	0	25.041, 09	148,19 8	8,2931 2	21,0894	0	1,4273 4	1,1708 1
9	450,3 62	307,209	0	19.579, 61	151,38 7	9,1626 8	22,0591	0	1,5040 7	1,1697 7
9	509,4 29	398,543	0	14.992, 86	155,33 7	10,178 7	22,8384	0	1,5879 9	1,1692 1
9	541,4 07	450,011	0	13.284, 94	157,52 9	10,715 6	23,1468	0	1,6309 3	1,1690 8
9	580,3 09	514,655	0	11.471, 30	160,24 8	11,362 3	23,4466	0	1,6812 6	1,1690 5
9	665,3 65	662,106	0	8.620,1 3	166,35 1	12,737	23,9106	0	1,7838	1,1691 7
9	767,4 33	849,966	0	6.406,3 8	173,95 1	14,336	24,2547	0	1,8964 7	1,1694 8
9	889,9 14	1089,89	0	5.046,3 9	183,43	16,192 8	24,5019	0	2,0198 1	1,1699 2
9	916,5 79	1144,09	0	4.808,6 8	185,54 2	16,588 8	24,5407	0	2,0452	1,1700 1
10	163,9 02	- 19,7477	0	1,00	0,0017 7245	0,7824 28	24,6246	0	0,6148 73	1,1739
10	164,0 02	- 19,6993	0	537.51 9,95	2,1539 1	0,0074 7302	-80,9326	0	0,4567 88	1,4363 9
10	164,1 02	- 19,6538	0	562.84 0,49	3,0163 7	0,0135 005	-85,8813	0	0,4545 64	1,4550 9
10	164,2 02	- 19,6083	0	569.41 5,06	3,6887 1	0,0196 123	-87,0338	0	0,4544 96	1,4590 8
10	164,3 02	- 19,5629	0	572.11 6,50	4,2649 2	0,0257 07	-87,4875	0	0,4546 72	1,4605 7
10	164,4 02	- 19,5174	0	575.60 5,79	4,7781 6	0,0316 167	-88,2189	0	0,4541 86	1,4636 8
10	164,5 02	- 19,4721	0	581.04 0,12	5,2476 5	0,0371 887	-89,4439	0	0,4529 25	1,4692 7

10	164,6 02	- 19,4268	0	587.33 8,57	5,6836 4	0,0424 515	-90,8773	0	0,4513 9	1,4759 6
10	164,7 02	- 19,3818	0	593.81 1,47	6,0929 3	0,0474 56	-92,3469	0	0,4498 39	1,4829 3
10	164,8 02	- 19,3369	0	600.15 1,13	6,4804 3	0,0522 447	-93,7787	0	0,4483 67	1,4898 1
10	164,9 02	- 19,2921	0	606.23 7,60	6,8498 8	0,0568 476	-95,1457	0	0,4470 01	1,4964 6
10	165,0 02	- 19,2475	0	612.03 0,93	7,2041 2	0,0612 884	-96,4397	0	0,4457 42	1,5028 4
10	165,1 02	- 19,2029	0	617.52 1,26	7,5455 2	0,0655 834	-97,6596	0	0,4445 9	1,5089 2
10	165,2 02	- 19,1585	0	622.71 0,78	7,8760 9	0,0697 436	-98,8066	0	0,4435 43	1,5146 9
10	165,3 02	- 19,1142	0	627.61 4,72	8,1970 3	0,0737 839	-99,8851	0	0,4425 93	1,5201 8
10	165,4 02	-19,07	0	632.26 4,13	8,5084 8	0,0777 286	-100,904	0	0,4417 18	1,5254 2
10	165,5 02	- 19,0259	0	636.66 8,13	8,8119 7	0,0815 783	-101,865	0	0,4409 18	1,5304
10	165,6 02	- 18,9818	0	640.84 4,26	9,1083 4	0,0853 404	-102,773	0	0,4401 88	1,5351 6
10	165,7 02	- 18,9379	0	644.80 7,25	9,3984 9	0,0890 182	-103,631	0	0,4395 21	1,5396 9
10	165,8 02	- 18,8939	0	648.57 0,32	9,6833 5	0,0926 13	-104,443	0	0,4389 15	1,5440 1
10	165,9 02	- 18,8501	0	652.15 1,76	9,9628 7	0,0961 374	-105,213	0	0,4383 62	1,5481 5
10	166,0 22	- 18,7975	0	656.22 2,68	10,292 6	0,1002 7	-106,086	0	0,4377 65	1,5528 7
10	166,1 66	- 18,7345	0	660.81 1,83	10,680 3	0,1051 08	-107,066	0	0,4371 35	1,5582 2
10	166,3 38	- 18,6591	0	665.93 6,66	11,135 3	0,1107 5	-108,156	0	0,4364 87	1,5642 4
10	166,5 46	- 18,5686	0	671.65 1,13	11,668	0,1172 99	-109,367	0	0,4358 26	1,5710 1
10	166,7 95	- 18,4603	0	678.37 1,68	12,290 6	0,1247 53	-110,792	0	0,4350 4	1,5791 2

10	167,093	-18,3306	0	686.491,05	13,0173	0,133087	-112,516	0	0,434027	1,58916
10	167,452	-18,1753	0	696.096,22	13,8654	0,142307	-114,552	0	0,432825	1,6013
10	167,882	-17,9894	0	707.076,20	14,8548	0,152444	-116,861	0	0,431558	1,61543
10	168,398	-17,7671	0	719.209,88	16,0078	0,16356	-119,382	0	0,430387	1,63126
10	169,017	-17,5009	0	732.205,23	17,3495	0,175859	-121,944	0	0,429483	1,64731
10	169,76	-17,1819	0	745.732,59	18,9085	0,189635	-124,363	0	0,429027	1,6618
10	170,651	-16,7993	0	759.482,51	20,7184	0,205179	-126,53	0	0,429172	1,67365
10	171,721	-16,3396	0	773.116,96	22,8192	0,222839	-128,349	0	0,430066	1,68184
10	173,005	-15,7863	0	786.252,66	25,2958	0,242685	-129,714	0	0,431883	1,68522
10	174,546	-15,1187	0	798.402,16	28,3596	0,263873	-130,462	0	0,434972	1,6821
10	176,395	-14,3102	0	808.938,24	32,1565	0,286685	-130,385	0	0,439761	1,67049
10	178,613	-13,3273	0	817.235,33	36,8386	0,311867	-129,297	0	0,446561	1,64901
10	181,276	-12,1267	0	822.707,83	42,5697	0,340568	-127,074	0	0,455412	1,61751
10	184,47	-10,6546	0	824.795,51	49,5495	0,374073	-123,67	0	0,466078	1,57727
10	188,304	-8,84416	0	822.842,66	58,007	0,413886	-119,063	0	0,478212	1,5303
10	192,905	-6,61302	0	815.983,56	68,1812	0,461875	-113,227	0	0,49145	1,47889
10	198,425	-3,85294	0	799.991,70	80,245	0,512649	-105,291	0	0,51029	1,42083
10	205,05	-0,377418	0	762.564,09	93,8898	0,567827	-92,7983	0	0,537976	1,35031
10	213	3,99977	0	695.69	108,52	0,6686	-75,5576	0	0,5617	1,2797

				2,56	2	21				6
10	222,5 39	9,45639	0	580.92 2,68	122,81 5	0,8851 99	-51,4533	0	0,5806 65	1,2147 1
10	233,9 87	16,2153	0	336.04 3,61	129,91 2	1,7797 8	-9,32567	0	0,6248 7	1,1544 3
10	240,2 87	20,7645	0	177.55 8,15	129,91 2	2,8638 8	8,43236	0	0,8125 32	1,1588 4
10	240,2 87	20,7645	0	177.55 8,15	129,91 2	2,8639	8,43236	0	0,8125 26	1,1588 4
10	247,7 24	27,3859	0	112.95 3,44	131,34 7	3,8663 6	14,0909	0	0,9554 14	1,1654 9
10	264,2 08	44,3301	0	78.181, 74	132,52 4	4,7771 9	16,5879	0	1,0692 6	1,1692 9
10	283,9 9	66,0122	0	63.280, 50	133,59	5,2455 2	17,5278	0	1,1232 4	1,1703 3
10	307,7 27	93,4708	0	49.962, 33	134,91 1	5,8428 4	18,3928	0	1,1889 9	1,1716 5
10	336,2 13	128,293	0	40.231, 24	136,55 1	6,4146 4	19,0426	0	1,2486 2	1,1726 2
10	370,3 95	172,045	0	32.250, 89	138,57	7,0387 8	19,7067	0	1,3107 3	1,1731 1
10	411,4 13	227,255	0	25.515, 48	141,06 7	7,7737 7	20,9872	0	1,3803 3	1,1712 3
10	460,6 36	297,12	0	19.918, 18	144,16 2	8,6270 5	22,0246	0	1,4572 8	1,1700 1
10	519,7 03	385,739	0	15.294, 92	148,00 5	9,6214 3	22,8436	0	1,5422 5	1,1693 6
10	545,7 28	426,339	0	13.941, 58	149,74	10,050 8	23,1092	0	1,5776 7	1,1692 3
10	590,5 83	498,519	0	11.693, 39	152,79	10,782 5	23,473	0	1,6362 4	1,1691 5
10	675,6 39	642,144	0	8.710,6 6	158,75 2	12,136	23,9448	0	1,7397 6	1,1692 6
10	777,7 06	825,598	0	6.437,8 6	166,19 4	13,713 7	24,2879	0	1,8534 8	1,1695 8
10	900,1 87	1060,35	0	5.034,6 9	175,49 4	15,549 8	24,5312	0	1,9779 2	1,1700 2
10	912,0	1083,91	0	4.923,7	176,41	15,724	24,5487	0	1,9894	1,1700

	69			2	6	8				6
11	170,1 15	- 19,9636	0	1,00	0,0017 7245	0,7824 28	24,6246	0	0,6148 73	1,1739
11	170,2 15	-19,915	0	533.15 8,62	2,1618 8	0,0074 1509	-80,2086	0	0,4590 51	1,4342 4
11	170,3 15	- 19,8693	0	558.36 8,73	3,0279 1	0,0134 02	-85,1493	0	0,4568 94	1,4528 2
11	170,4 15	- 19,8236	0	564.91 6,79	3,7028	0,0194 748	-86,2998	0	0,4568 32	1,4567 8
11	170,5 15	- 19,7779	0	567.54 1,10	4,2812	0,0255 35	-86,7367	0	0,4570 27	1,4581 8
11	170,6 15	- 19,7322	0	570.79 5,50	4,7961 8	0,0314 26	-87,4146	0	0,4566 21	1,4610 3
11	170,7 15	- 19,6866	0	576.06 2,16	5,2672 2	0,0369 803	-88,6054	0	0,4554 21	1,4664 3
11	170,8 15	- 19,6412	0	582.23 1,61	5,7048 1	0,0422 269	-90,0158	0	0,4539 28	1,4729 8
11	170,9 15	- 19,5958	0	588.61 6,92	6,1155 8	0,0472 156	-91,4725	0	0,4524 09	1,4798 5
11	171,0 15	- 19,5507	0	594.90 1,75	6,5044 8	0,0519 876	-92,899	0	0,4509 58	1,4866 6
11	171,1 15	- 19,5056	0	600.95 9,34	6,8749 7	0,0565 766	-94,2665	0	0,4496 03	1,4932 8
11	171,2 15	- 19,4607	0	606.73 9,23	7,2301	0,0610 035	-95,564	0	0,4483 53	1,4996 4
11	171,3 15	-19,416	0	612.22 7,27	7,5723 4	0,0652 832	-96,7893	0	0,4472 07	1,5057 1
11	171,4 15	- 19,3713	0	617.42 7,47	7,9034 5	0,0694 306	-97,9443	0	0,4461 59	1,5114 9
11	171,5 15	- 19,3267	0	622.35 1,05	8,2247 5	0,0734 593	-99,0326	0	0,4452 03	1,517
11	171,6 15	- 19,2823	0	627.01 6,35	8,5370 2	0,0773 848	-100,059	0	0,4443 28	1,5222 4
11	171,7 15	- 19,2379	0	631.43 8,17	8,8412 8	0,0812 15	-101,028	0	0,4435 29	1,5272 4
11	171,8 15	- 19,1936	0	635.63 2,73	9,1384 2	0,0849 564	-101,944	0	0,4427 99	1,532



11	171,9 15	- 19,1493	0	639.61 5,72	9,4292 9	0,0886 138	-102,81	0	0,4421 32	1,5365 5
11	172,0 15	- 19,1051	0	643.39 9,18	9,7148 5	0,0921 879	-103,629	0	0,4415 26	1,5408 9
11	172,1 15	-19,061	0	647.00 1,97	9,9949 9	0,0956 923	-104,407	0	0,4409 72	1,5450 3
11	172,2 35	- 19,0081	0	651.10 0,14	10,325 2	0,0998 04	-105,289	0	0,4403 73	1,5497 8
11	172,3 79	- 18,9448	0	655.72 1,88	10,713 5	0,1046 16	-106,28	0	0,4397 38	1,5551 5
11	172,5 52	- 18,8688	0	660.88 3,16	11,169 1	0,1102 29	-107,381	0	0,4390 85	1,5611 9
11	172,7 59	- 18,7779	0	666.62 3,24	11,702 6	0,1167 47	-108,602	0	0,4384 24	1,5679 7
11	173,0 08	- 18,6689	0	673.25 4,45	12,326 5	0,1241 95	-110,011	0	0,4376 73	1,5759 4
11	173,3 07	- 18,5383	0	681.27 5,67	13,055 2	0,1325 23	-111,721	0	0,4366 93	1,5858 3
11	173,6 65	-18,382	0	690.83 5,55	13,905 3	0,1417 22	-113,754	0	0,4355 13	1,5978 7
11	174,0 95	-18,195	0	701.84 5,01	14,896 5	0,1518 15	-116,08	0	0,4342 46	1,612
11	174,6 11	- 17,9713	0	714.06 5,02	16,051 1	0,1628 7	-118,632	0	0,4330 56	1,6279 3
11	175,2 3	- 17,7034	0	727.18 5,40	17,394 9	0,1750 76	-121,241	0	0,4321 19	1,6442 3
11	175,9 73	- 17,3825	0	740.88 1,37	18,957 4	0,1887 25	-123,718	0	0,4316 07	1,6591
11	176,8 65	- 16,9976	0	754.83 9,37	20,772 2	0,2041 11	-125,953	0	0,4316 77	1,6714 2
11	177,9 35	- 16,5353	0	768.71 4,79	22,879 2	0,2215 78	-127,844	0	0,4324 79	1,6801 6
11	179,2 18	-15,979	0	782.13 0,67	25,363 7	0,2411 89	-129,287	0	0,4341 84	1,6841 7
11	180,7 59	-15,308	0	794.56 9,49	28,408	0,2623 87	-130,116	0	0,4371 25	1,6817 3
11	182,6 08	- 14,4957	0	805.41 6,99	32,190 6	0,2851 22	-130,122	0	0,4417 32	1,6708 6

11	184,827	-13,5086	0	814.027,53	36,8629	0,310154	-129,112	0	0,448337	1,65002
11	187,489	-12,3036	0	819.800,06	42,5901	0,338629	-126,954	0	0,456993	1,61902
11	190,684	-10,8269	0	822.165,66	49,5619	0,371923	-123,599	0	0,467477	1,57905
11	194,517	-9,01105	0	820.329,06	58,0059	0,411211	-118,993	0	0,479673	1,53194
11	199,118	-6,76183	0	808.952,38	68,081	0,447569	-112,002	0	0,50036	1,47364
11	204,639	-3,9225	0	780.857,84	79,6546	0,488801	-101,372	0	0,527072	1,40378
11	211,263	-0,348751	0	732.570,11	92,5862	0,556737	-87,3283	0	0,550346	1,33328
11	219,213	4,10687	0	656.779,53	106,481	0,674131	-69,3392	0	0,569149	1,26806
11	228,753	9,61539	0	538.911,48	120,083	0,910714	-45,4212	0	0,5847	1,20931
11	240,2	16,4173	0	310.697,69	126,655	1,8041	-6,81691	0	0,630774	1,15711
11	246,265	20,7645	0	174.987,00	126,655	2,7645	8,32997	0	0,797848	1,16067
11	246,265	20,7645	0	174.987,00	126,655	2,76451	8,32997	0	0,797847	1,16067
11	253,937	27,469	0	105.704,74	128,028	3,72585	14,025	0	0,93727	1,16648
11	270,422	44,0648	0	70.079,78	129,154	4,59416	16,5349	0	1,04772	1,16989
11	290,203	65,3237	0	55.230,14	130,204	5,05628	17,5091	0	1,10222	1,17085
11	313,941	92,2647	0	42.529,61	131,502	5,64283	18,3942	0	1,16771	1,17208
11	342,426	126,466	0	33.227,50	133,115	6,22601	19,0703	0	1,22945	1,17305
11	376,608	169,566	0	26.102,91	135,107	6,84443	19,7747	0	1,29171	1,17337
11	417,6	224,006	0	20.293,	137,57	7,5714	21,0628	0	1,3616	1,1714

	27			37	1	7			4	2
11	466,8 49	292,954	0	15.529, 08	140,62 9	8,4182 1	22,0977	0	1,4386 9	1,1701 8
11	525,9 16	380,49	0	11.864, 63	144,42 9	9,4039 4	22,9102	0	1,5241	1,1695 1
11	540,1 99	402,399	0	11.157, 62	145,36 9	9,6385 6	23,0598	0	1,5437 3	1,1694 3
11	596,7 96	492,05	0	8.906,5 0	149,16 7	10,557 9	23,5293	0	1,6184 9	1,1693
11	681,8 52	634,178	0	6.606,2 6	155,07 3	11,903 2	23,9904	0	1,7223 4	1,1694
11	783,9 2	815,871	0	5.220,3 7	162,45 3	13,472 8	24,3232	0	1,8364 8	1,1697 1
11	893,3 41	1023,05	0	4.172,2 4	170,68	15,108 4	24,5375	0	1,9486 8	1,1701
12	194,9 05	- 20,7423	0	1,00	0,0017 7245	0,7824 28	24,6246	0	0,6148 73	1,1739
12	195,0 05	- 20,6929	0	514.53 2,78	2,2091 3	0,0071 6863	-77,1246	0	0,4685 24	1,4253 1
12	195,1 05	- 20,6462	0	538.95 9,33	3,0973 8	0,0129 836	-81,9741	0	0,4667 43	1,4432 1
12	195,2 05	- 20,5996	0	545.17 6,25	3,7901 7	0,0188 787	-83,0797	0	0,4668	1,4469 3
12	195,3 05	- 20,5529	0	547.45 0,77	4,3826 4	0,0247 758	-83,4518	0	0,4671 1	1,4480 6
12	195,4 05	- 20,5061	0	549.47 7,73	4,9106 7	0,0305 734	-83,8576	0	0,4671 15	1,4496 4
12	195,5 05	- 20,4595	0	553.67 1,65	5,3923 8	0,0360 671	-84,8269	0	0,4662 81	1,4539 5
12	195,6 05	- 20,4129	0	559.15 2,78	5,8395	0,0412 447	-86,1143	0	0,4650 39	1,4598 1
12	195,7 05	- 20,3664	0	565.00 2,70	6,2590 4	0,0461 568	-87,4864	0	0,4637 44	1,4661 6
12	195,8 05	- 20,3201	0	570.30 0,19	6,6506 7	0,0508 046	-88,7529	0	0,4629 2	1,4721 8
12	195,9 05	- 20,2738	0	574.90 8,55	7,0177 7	0,0552 132	-89,8836	0	0,4625 66	1,4777 3

12	196,0 05	- 20,2276	0	579.09 7,24	7,3664 5	0,0594 267	-90,9249	0	0,4624 16	1,4829 5
12	196,1 05	- 20,1813	0	582.97 7,10	7,7009	0,0634 691	-91,8956	0	0,4623 67	1,4879
12	196,2 05	- 20,1351	0	586.60 1,39	8,0230 4	0,0673 655	-92,8062	0	0,4623 83	1,4926
12	196,3 05	- 20,0888	0	590.01 1,98	8,3341 4	0,0711 377	-93,665	0	0,4624 41	1,4970 9
12	196,4 05	- 20,0426	0	593.23 6,06	8,6361 8	0,0747 946	-94,4774	0	0,4625 23	1,5013 8
12	196,5 05	- 19,9963	0	596.28 4,67	8,9309 2	0,0783 394	-95,2457	0	0,4626 24	1,5054 8
12	196,6 05	- 19,9501	0	599.17 8,06	9,2187 6	0,0817 861	-95,9751	0	0,4627 42	1,5094
12	196,7 05	- 19,9038	0	601.92 0,72	9,5012 3	0,0851 33	-96,6667	0	0,4628 8	1,5131 5
12	196,8 05	- 19,8575	0	604.52 5,45	9,7785 7	0,0883 908	-97,3238	0	0,4630 35	1,5167 5
12	196,9 05	- 19,8112	0	606.99 9,26	10,051 2	0,0915 661	-97,9483	0	0,4632 07	1,5202
12	197,0 25	- 19,7556	0	609.80 5,42	10,372 4	0,0952 767	-98,6577	0	0,4634 37	1,5241 5
12	197,1 69	- 19,6888	0	612.95 8,60	10,750 2	0,0995 974	-99,4563	0	0,4637 43	1,5286 4
12	197,3 42	- 19,6087	0	616.45 1,83	11,193 9	0,1046 03	-100,344	0	0,4641 53	1,5337
12	197,5 49	- 19,5124	0	620.27 1,33	11,714 2	0,1103 77	-101,319	0	0,4647 01	1,5393 4
12	197,7 98	- 19,3966	0	624.39 0,52	12,322 5	0,1170 12	-102,378	0	0,4654 26	1,5455 6
12	198,0 97	- 19,2575	0	628.96 3,72	13,032 8	0,1245 44	-103,56	0	0,4663 13	1,5526 3
12	198,4 55	- 19,0903	0	634.58 1,19	13,861 3	0,1328 3	-105,007	0	0,4672 39	1,5614 1
12	198,8 85	- 18,8892	0	641.47 1,26	14,826 9	0,1417 81	-106,772	0	0,4682 08	1,5723 1
12	199,4 01	- 18,6473	0	649.62 5,45	15,952 5	0,1513 05	-108,848	0	0,4693 31	1,5854 1

12	200,0 2	- 18,3562	0	658.83 7,31	17,263 1	0,1613 58	-111,173	0	0,4707 84	1,6004 4
12	200,7 63	- 18,0057	0	668.78 9,19	18,789 5	0,1719 92	-113,584	0	0,4727 68	1,6161 7
12	201,6 55	- 17,5831	0	679.06 8,14	20,564 1	0,1834 98	-115,8	0	0,4754 7	1,6300 6
12	202,7 25	- 17,0725	0	689.17 5,71	22,619 7	0,1962 11	-117,638	0	0,4790 44	1,6404 2
12	204,0 09	- 16,4545	0	698.55 4,37	25,002 5	0,2103 82	-118,962	0	0,4836 31	1,6460 9
12	205,5 49	- 15,7049	0	706.69 9,56	27,814 7	0,2260 03	-119,627	0	0,4893 46	1,6457 4
12	207,3 98	- 14,7936	0	712.84 0,02	31,242 4	0,2427 77	-119,393	0	0,4964 19	1,6373 8
12	209,6 17	- 13,6827	0	716.08 9,36	35,443 6	0,2611 58	-117,993	0	0,5050 05	1,6191 4
12	212,2 79	- 12,3247	0	715.16 5,86	40,561 1	0,2823 32	-115,104	0	0,5151 07	1,5895 5
12	215,4 74	- 10,6607	0	708.63 4,84	46,751 6	0,3078 93	-110,467	0	0,5264 3	1,5488 7
12	219,3 08	- 8,61889	0	694.91 0,48	54,192	0,3398 74	-103,905	0	0,5384 34	1,4991 8
12	223,9 08	- 6,11257	0	671.98 6,55	63,053 5	0,3810 33	-95,2515	0	0,5506 36	1,4435
12	229,4 29	- 3,03847	0	637.42 4,82	73,474 5	0,4358 4	-84,3349	0	0,5625 37	1,3853
12	236,0 54	0,72745 1	0	588.14 9,48	85,479 9	0,5126 1	-70,8831	0	0,5737 79	1,3275 2
12	244,0 03	5,33299	0	519.58 3,33	98,862 4	0,6298 92	-54,303	0	0,5842 29	1,2718 3
12	253,5 43	10,9554	0	422.70 5,50	112,70 1	0,8441 56	-33,1848	0	0,5940 3	1,2183 3
12	264,9 9	17,8126	0	298.16 8,28	123,52 2	1,3094 2	-9,63304	0	0,6030 71	1,1770 9
12	269,8 57	20,7645	0	230.34 3,84	124,10 3	1,7284 7	0,244373	0	0,6228 06	1,1686 1
12	269,8 57	20,7645	0	230.34 3,84	124,10 3	1,7282	0,244373	0	0,6229 03	1,1686 1

12	278,7 28	26,9852	0	125.31 4,62	125,26 8	2,5578 1	11,7788	0	0,7707 34	1,1676 9
12	295,2 12	40,9119	0	75.271, 95	126,27 4	3,3693 3	15,8496	0	0,8920 04	1,1707 2
12	314,9 93	59,0948	0	57.725, 20	127,17 4	3,7689 2	17,1457	0	0,9463 14	1,1713 1
12	338,7 31	82,3256	0	43.304, 76	128,3	4,2752 2	18,2547	0	1,0109 8	1,1723 5
12	367,2 16	112,17	0	32.514, 73	129,71 9	4,8475 1	19,1191	0	1,0796 4	1,1734 3
12	401,3 98	150,176	0	25.008, 70	131,49	5,4126 2	20,1179	0	1,1436	1,1729 4
12	442,4 17	198,575	0	18.991, 64	133,7	6,0832 4	21,5089	0	1,2153 2	1,1708
12	491,6 39	260,376	0	14.345, 35	136,46 6	6,8690 9	22,5577	0	1,2946 7	1,1696 2
12	530,7 83	312,218	0	11.752, 21	138,74 6	7,4831 9	23,111	0	1,3536 3	1,1692 2
12	550,7 06	339,539	0	10.688, 55	139,93 4	7,7937 9	23,3291	0	1,3825 5	1,1691 4
12	621,5 86	441,027	0	7.875,5 1	144,28 7	8,8810 1	23,883	0	1,4796 1	1,1691 3
12	706,6 43	571,482	0	6.179,5 8	149,75 9	10,160 4	24,2701	0	1,5866 6	1,1694 2
12	808,7 1	739,528	0	4.786,3 7	156,64 8	11,664 5	24,5333	0	1,7044	1,1698 8
12	840,2 31	793,798	0	4.451,0 9	158,84	12,122 7	24,589	0	1,7387 6	1,1700 2
13	241,2 14	- 20,7645	0	1,00	0,0017 7245	0,7824 28	24,6246	0	0,6148 73	1,1739
13	241,3 14	- 20,7078	0	270.74 4,50	2,3043 5	0,0054 1635	-36,5094	0	0,5573 9	1,3304 1
13	241,4 14	- 20,6521	0	287.39 2,50	3,2536 3	0,0098 8248	-41,1049	0	0,5571 66	1,3463 3
13	241,5 14	- 20,5964	0	291.52 3,52	3,9878 6	0,0144 507	-42,143	0	0,5573 08	1,3497 7
13	241,6	-	0	292.98	4,6112	0,0190	-42,4992	0	0,5574	1,3509

	14	20,5406		6,56	1	44			79	3
13	241,7	-	0	293.51	5,1637	0,0236	-42,6333	0	0,5576	1,3513
	14	20,4849		6,73	6	434			52	8
13	241,8	-	0	293.62	5,6671	0,0282	-42,6727	0	0,5578	1,3515
	14	20,4291		5,99	2	367			25	5
13	241,9	-	0	293.51	6,1327	0,0328	-42,6645	0	0,5579	1,3515
	14	20,3733		3,96	5	251			99	7
13	242,0	-	0	293.27	6,5683	0,0374	-42,6298	0	0,5581	1,3515
	14	20,3175		5,20	3	088			72	2
13	242,1	-	0	293.09	6,9796	0,0419	-42,6253	0	0,5583	1,3516
	14	20,2617		5,75	9	597			16	1
13	242,2	-	0	293.39	7,3710	0,0463	-42,7865	0	0,5583	1,3523
	14	20,2058		3,38	1	85			56	7
13	242,3	-20,15	0	294.33	7,7453	0,0506	-43,1637	0	0,5582	1,354
	14			0,88	2	176			73	
13	242,4	-	0	295.71	8,1051	0,0546	-43,6916	0	0,5581	1,3562
	14	20,0942		8,98	4	663			14	4
13	242,5	-	0	297.47	8,4522	0,0585	-44,3393	0	0,5579	1,3589
	14	20,0384		3,95	3	299			04	7
13	242,6	-	0	299.44	8,7879	0,0622	-45,0547	0	0,5576	1,3619
	14	19,9826		0,22	5	376			74	8
13	242,7	-	0	301.54	9,1137	0,0658	-45,8135	0	0,5574	1,3651
	14	19,9268		6,26					37	8
13	242,8	-	0	303.76	9,4305	0,0692	-46,605	0	0,5571	1,3685
	14	19,8711		1,08	2	233			98	4
13	242,9	-	0	306.04	9,7395	0,0725	-47,4148	0	0,5569	1,3719
	14	19,8154		0,95	4	168			65	9
13	243,0	-	0	308.35	10,041	0,0756	-48,2312	0	0,5567	1,3754
	14	19,7597		0,82	5	943			4	8
13	243,1	-19,704	0	310.67	10,337	0,0787	-49,0477	0	0,5565	1,3789
	14			0,20	1	646			26	9
13	243,2	-	0	312.98	10,626	0,0817	-49,8584	0	0,5563	1,3825
	14	19,6484		0,69	7	386			24	
13	243,3	-	0	315.72	10,966	0,0851	-50,8191	0	0,5560	1,3866
	34	19,5816		6,83	8	924			97	9
13	243,4	-	0	318.96	11,365	0,0891	-51,9495	0	0,5558	1,3916
	78	19,5016		7,44	1	863			47	6
13	243,6	-	0	322.76	11,830	0,0937	-53,2703	0	0,5555	1,3975

	51	19,4056		3,35	1	828			78	2
13	243,8 58	- 19,2904	0	327.16 4,91	12,372	0,0990 442	-54,7983	0	0,5553	1,4043 9
13	244,1 07	- 19,1523	0	332.20 7,46	13,002 3	0,1050 3	-56,5453	0	0,5550 27	1,4123 5
13	244,4 06	- 18,9866	0	337.91 4,34	13,734 1	0,1118	-58,5204	0	0,5547 77	1,4215 1
13	244,7 64	- 18,7878	0	344.27 8,61	14,582 9	0,1194 08	-60,7234	0	0,5545 77	1,4319 4
13	245,1 94	- 18,5494	0	351.26 1,40	15,565 9	0,1279 16	-63,1456	0	0,5544 6	1,4436 7
13	245,7 1	- 18,2633	0	358.78 4,48	16,703 5	0,1373 75	-65,7683	0	0,5544 66	1,4567 2
13	246,3 29	- 17,9199	0	366.72 8,24	18,019 7	0,1478 41	-68,5629	0	0,5546 41	1,4710 6
13	247,0 72	- 17,5077	0	375.37 2,92	19,540 4	0,1591 13	-71,6388	0	0,5549 6	1,4873 9
13	247,9 64	- 17,0128	0	386.13 9,56	21,300 3	0,1701 07	-75,4223	0	0,5552 48	1,5080 9
13	249,0 34	- 16,4185	0	399.02 5,92	23,338 9	0,1806 83	-79,6396	0	0,5556 42	1,5314 9
13	250,3 17	- 15,7046	0	413.27 7,27	25,697 7	0,1912 56	-83,8222	0	0,5564 1	1,5546 3
13	251,8 58	- 14,8464	0	427.87 4,14	28,417 7	0,2024 91	-87,5602	0	0,5577 41	1,5747 7
13	253,7 07	- 13,8133	0	441.85 7,18	31,599 3	0,2148 32	-90,4776	0	0,5597 1	1,5890 1
13	255,9 26	- 12,5685	0	454.26 1,74	35,475 7	0,2282 75	-92,1739	0	0,5624 29	1,5940 8
13	258,5 88	- 11,0663	0	463.53 8,80	40,231 5	0,2439 03	-92,1068	0	0,5660 65	1,5859 9
13	261,7 83	- 9,25056	0	467.77 9,20	46,030 6	0,2635 36	-89,7635	0	0,5706 59	1,5620 9
13	265,6 17	-7,0525	0	464.84 9,74	53,051 7	0,2895 21	-84,7786	0	0,5760 23	1,5225 3
13	270,2 17	- 4,38896	0	452.84 1,35	61,489 5	0,3249 12	-77,0309	0	0,5817 18	1,4707
13	275,7	-1,1605	0	429.79	71,531	0,3737	-66,5611	0	0,5875	1,4118



	38			4,30	8	81			48	4
13	282,3 62	2,7517	0	393.63 0,80	83,288 8	0,4434 77	-53,3908	0	0,5933 49	1,3507 8
13	290,3 12	7,49099	0	342.64 7,57	96,659 6	0,5498 83	-37,5305	0	0,5988 44	1,2911 3
13	299,8 52	13,2301	0	274.57 4,43	111,09 4	0,7315 85	-19,1783	0	0,6041 56	1,2363 9
13	311,2 99	20,1762	0	196.98 5,70	125,18 2	1,0458 7	-2,08805	0	0,6093 8	1,1977 5
13	312,2 64	20,7645	0	190.80 8,19	126,18 4	1,0775 1	- 0,868644	0	0,6098 71	1,1953 4
13	312,2 64	20,7645	0	190.80 8,19	126,18 4	1,0775 1	- 0,868644	0	0,6098 71	1,1953 4
13	314,2 88	22,0016	0	177.62 0,10	127,77	1,1476 4	1,57455	0	0,6109 72	1,1908 2
13	314,2 88	22,0016	0	177.62 0,10	127,77	1,1476 4	1,57455	0	0,6109 72	1,1908 2
13	325,0 36	28,5865	0	123.94 8,48	134,79 9	1,5980 4	10,1124	0	0,6136 23	1,1786 4
13	341,5 21	39,3007	0	85.084, 01	139,14 4	2,0298 8	14,8154	0	0,6854 42	1,1755 4
13	361,3 02	53,433	0	66.475, 18	140,14	2,3564	16,8451	0	0,7411 72	1,1745 1
13	385,0 4	71,7797	0	50.976, 06	141,04 2	2,7577 9	18,3348	0	0,8046 26	1,1745 6
13	413,5 25	95,7867	0	38.016, 02	142,19 4	3,2812 3	19,4594	0	0,8810 19	1,1753 5
13	447,7 07	127,202	0	29.476, 26	143,67 4	3,8079	21,2059	0	0,9520 95	1,1723 9
13	488,7 26	167,796	0	22.924, 07	145,55	4,3963 3	22,5378	0	1,0262 7	1,1703 3
13	507,7 25	187,605	0	20.635, 31	146,45 3	4,6678 2	22,9476	0	1,0588	1,1698 7
13	537,9 48	220,425	0	17.608, 03	147,93 4	5,0989 6	23,432	0	1,1086 8	1,1694 8
13	597,0 15	288,637	0	13.383, 20	150,96 3	5,9354 3	24,021	0	1,1999 4	1,1693 6
13	667,8	377,318	0	10.040,	154,81	6,9334	24,3993	0	1,3010	1,1696

	95			54	7	1			1	4
13	741,7 13	476,996	0	7.723,5 6	159,05 9	7,9665 4	24,6142	0	1,3984 2	1,1700 5
14	472,4 66	- 20,7645	0	1,00	0,0017 7245	0,7824 28	24,6246	0	0,6148 73	1,1739
14	472,5 66	- 20,7034	0	26.693, 48	2,3744 3	0,0044 2693	-1,4578	0	0,6104 83	1,2877 9
14	472,6 66	- 20,6423	0	28.162, 01	3,3801 5	0,0082 0387	-3,72078	0	0,6105 2	1,2985 3
14	472,7 66	- 20,5813	0	28.485, 01	4,1494 4	0,0120 806	-4,30813	0	0,6105 4	1,3013 7
14	472,8 66	- 20,5202	0	28.585, 92	4,8009	0,0159 786	-4,54675	0	0,6105 54	1,3025 3
14	472,9 66	- 20,4592	0	28.609, 76	5,3779 2	0,0198 786	-4,6666	0	0,6105 68	1,3031 3
14	473,0 66	- 20,3981	0	28.600, 91	5,9005 9	0,0237 834	-4,73452	0	0,6105 8	1,3034 9
14	473,1 66	-20,337	0	28.575, 25	6,3838 8	0,0276 824	-4,77589	0	0,6105 92	1,3037 2
14	473,2 66	-20,276	0	28.540, 73	6,8345 7	0,0315 865	-4,80225	0	0,6106 03	1,3038 7
14	473,3 66	- 20,2149	0	28.501, 17	7,2590 3	0,0354 918	-4,81944	0	0,6106 15	1,3039 8
14	473,4 66	- 20,1539	0	28.458, 65	7,6615 3	0,0393 996	-4,8307	0	0,6106 25	1,3040 6
14	473,5 66	- 20,0928	0	28.414, 31	8,0456 3	0,0433 079	-4,83796	0	0,6106 36	1,3041 2
14	473,6 66	- 20,0317	0	28.368, 75	8,4141 1	0,0472 122	-4,84239	0	0,6106 46	1,3041 7
14	473,7 66	- 19,9707	0	28.322, 13	8,7695	0,0511 084	-4,84476	0	0,6106 57	1,3042 1
14	473,8 66	- 19,9096	0	28.276, 11	9,1139 8	0,0549 879	-4,84775	0	0,6106 67	1,3042 5
14	473,9 66	- 19,8485	0	28.255, 10	9,4474 3	0,0588 033	-4,88595	0	0,6106 74	1,3044 6
14	474,0 66	- 19,7875	0	28.262, 03	9,7712 6	0,0625 324	-4,96381	0	0,6106 77	1,3048 5

14	474,1 66	- 19,7264	0	28.304, 45	10,086 2	0,0661 436	-5,09224	0	0,6106 76	1,3054 9
14	474,2 66	- 19,6653	0	28.378, 40	10,393	0,0696 34	-5,26596	0	0,6106 71	1,3063 4
14	474,3 66	- 19,6043	0	28.481, 13	10,692 4	0,0729 982	-5,48158	0	0,6106 64	1,3074
14	474,4 66	- 19,5432	0	28.603, 12	10,985 3	0,0762 502	-5,72598	0	0,6106 55	1,3085 9
14	474,5 86	- 19,4699	0	28.769, 80	11,328 6	0,0800 187	-6,0506	0	0,6106 43	1,3101 7
14	474,7 3	-19,382	0	28.990, 45	11,729 9	0,0843 654	-6,4739	0	0,6106 28	1,3122 3
14	474,9 03	- 19,2765	0	29.275, 84	12,197 8	0,0893 502	-7,01852	0	0,6106 11	1,3148 8
14	475,1 1	- 19,1499	0	29.637, 55	12,741 7	0,0950 32	-7,71112	0	0,6105 9	1,3182 7
14	475,3 59	- 18,9979	0	30.087, 45	13,372 2	0,1014 62	-8,58262	0	0,6105 67	1,3225 5
14	475,6 58	- 18,8156	0	30.636, 79	14,101 7	0,1086 76	-9,66821	0	0,6105 43	1,3279 1
14	476,0 16	- 18,5968	0	31.295, 49	14,944 9	0,1166 88	-11,0078	0	0,6105 18	1,3345 6
14	476,4 46	- 18,3343	0	32.071, 34	15,918 2	0,1254 96	-12,6461	0	0,6104 97	1,3427 8
14	476,9 62	- 18,0193	0	32.968, 82	17,038 5	0,1350 95	-14,6307	0	0,6104 79	1,3528 5
14	477,5 81	- 17,6414	0	33.988, 39	18,328 8	0,1454 23	-17,0115	0	0,6104 7	1,3651 2
14	478,3 24	- 17,1878	0	35.125, 92	19,816 5	0,1563 89	-19,8388	0	0,6104 73	1,3799 7
14	479,2 16	- 16,6435	0	36.376, 95	21,529 7	0,1679 14	-23,1648	0	0,6104 92	1,3978 4
14	480,2 86	- 15,9902	0	37.728, 93	23,506 9	0,1798 37	-27,0115	0	0,6105 31	1,4190 8
14	481,5 7	- 15,2063	0	39.293, 92	25,795 1	0,1913 47	-31,3824	0	0,6105 84	1,4439 5
14	483,1 1	- 14,2656	0	41.304, 55	28,449 9	0,2006 75	-36,5254	0	0,6106 41	1,4742 2

14	484,959	-13,1365	0	43.703,71	31,5279	0,207946	-42,1418	0	0,610731	1,50862
14	487,178	-11,7814	0	46.303,45	35,1314	0,214067	-47,6256	0	0,610877	1,54367
14	489,84	-10,1547	0	48.830,71	39,6086	0,219387	-52,0694	0	0,611104	1,57304
14	493,035	-8,20188	0	50.911,40	45,1615	0,226545	-54,2857	0	0,611411	1,58759
14	496,869	-5,85718	0	52.154,08	51,9242	0,238982	-53,3046	0	0,61177	1,57965
14	501,469	-3,04179	0	52.089,72	60,101	0,259781	-48,7104	0	0,612176	1,54731
14	506,99	0,33903	0	50.296,22	69,957	0,292351	-40,6779	0	0,612613	1,49489
14	513,615	4,39898	0	46.458,34	81,7711	0,34156	-29,9368	0	0,613065	1,43094
14	521,564	9,27451	0	40.544,32	95,762	0,415085	-17,6885	0	0,613523	1,36499
14	531,104	15,1295	0	32.895,91	112,006	0,525161	-5,57084	0	0,613987	1,30548
14	540,278	20,7645	0	25.585,86	126,826	0,658467	3,75422	0	0,614433	1,26207
14	540,278	20,7645	0	25.585,86	126,826	0,658467	3,75422	0	0,614433	1,26207
14	542,234	21,9731	0	23.923,41	128,345	0,693729	5,88506	0	0,614557	1,25232
14	542,551	22,1696	0	23.660,31	128,595	0,699735	6,20022	0	0,614573	1,25089
14	556,288	30,9119	0	14.866,21	140,224	1,00371	14,3873	0	0,614831	1,21456
14	572,773	41,5366	0	9.476,8	154,684	1,39602	17,8813	0	0,614865	1,19961
14	592,554	54,5168	0	6.191,6	172,452	1,78768	19,6094	0	0,642274	1,1924
14	596,919	57,4675	0	5.682,4	176,453	1,85765	19,8512	0	0,654699	1,1914
14	599,803	59,4456	0	5.378,2	179,125	1,90322	19,9936	0	0,663165	1,19082

14	599,8 03	59,4456	0	5.378,0 2	179,12 5	1,9032 2	19,9936	0	0,6631 65	1,1908 2
14	616,2 92	70,7824	0	4.005,5 0	196,33 3	2,1868 8	21,5418	0	0,7129 84	1,1850 2
14	644,7 77	92,4203	0	2.580,8 2	213,54	2,7686 1	23,2283	0	0,8063 22	1,1789 6
14	678,9 59	121,597	0	1.866,1 4	219,66	3,3553 3	23,974	0	0,8914 02	1,1763 5
14	719,9 78	159,706	0	1.455,1 3	221,41 2	3,9139	24,3623	0	0,9659 01	1,1750 1
14	769,2	209,319	0	1.124,8 4	223,67 1	4,5845 9	24,6096	0	1,0489 2	1,1741 9
14	828,2 67	274,036	0	861,12	226,55 8	5,3900 8	24,7643	0	1,1412 1	1,1737 1
14	899,1 47	358,602	0	654,33	230,25	6,3571 2	24,8595	0	1,2435 8	1,1734 4
14	984,2 03	469,258	0	494,09	234,97 4	7,5163 5	24,9172	0	1,3567 9	1,1732 9
14	991,1 31	478,687	0	484,08	235,37 2	7,6106 2	24,9204	0	1,3656 1	1,1732 9

### Weather: Category 5/D

Wind speed [m/s]	5
Pasquill stability	D neutral - little sun and high wind or overcast/windy night
Atmospheric temperature [degC]	25
Relative humidity [fraction]	0,75
Solar radiation flux [kW/m2]	0,5
Mixing layer height [m]	800

### Observer Release Data and Observer Mass Data

Observer number	Release type	Start time [s]	Start downwind distance [m]	Unit	Masses or mass rates			
					Release	Rainout	Pool vapour pick-up	Final
1	Continuous	0	0	kg/s	66,9133	66,5946		0,318666
2	Continuous	0,22	-0,373937	kg/s	66,9133	66,5946		2,39964
3	Continuous	39,4709	-12,6187	kg/s	66,9133	66,5946		55,6539
4	Continuous	65,9767	-14,9063	kg/s	66,9133	66,5946		53,6683
5	Continuous	92,5022	-16,4533	kg/s	66,9133	66,5946		55,3956
6	Continuous	118,29	-17,6675	kg/s	66,9133	66,5946		56,7545
7	Continuous	143,524	-18,6584	kg/s	66,9133	66,5946		57,7131
8	Continuous	168,382	-19,5087	kg/s	66,9133	66,5946		58,4158
9	Continuous	188,068	-20,1034	kg/s	66,9133	66,5946		53,6652
10	Continuous	188,069	-20,1034	kg/s	0	0	53,3466	53,3466

11	Continuou s	192,92 3	-20,241	kg/s	0	0	46,2135
12	Continuou s	198,34 2	-20,3121	kg/s	0	0	38,8813
13	Continuou s	234,27 5	-20,3121	kg/s	0	0	19,6839
14	Continuou s	433,19 5	-20,3121	kg/s	0	0	1,43864

### Time-varying Observer Dispersion Data (before along-wind-diffusion effects)

Dispersion data correspond to an averaging time of: 18,75 s

Observer number	Time [s]	Down wind distance [m]	C/Li ne height [m]	C/Li ne conc [ppm]	Effecti ve width [m]	Effecti ve depth [m]	C/Line vapour temperature [degC]	C/Li ne liquid fraction	Centr oid velocity [m/s]	C/Lin e cloud density [kg/m <sup>3</sup> ]
1	0	0	0	999.875,80	0,146461	0,0709749	-160,932	0	16,0477	1,91067
1	0,01	0,152493	0	950.836,35	0,160968	0,0822618	-151,111	0	14,5179	1,80255
1	0,02	0,291804	0	910.171,83	0,174373	0,0925037	-142,801	0	13,3606	1,72537
1	0,03	0,420778	0	875.717,65	0,186927	0,101833	-135,64	0	12,4516	1,66701
1	0,04	0,541447	0	846.009,48	0,198935	0,110296	-129,375	0	11,7161	1,62101
1	0,05	0,655463	0	819.994,01	0,210977	0,117765	-123,818	0	11,1049	1,58355
1	0,06	0,763947	0	796.943,34	0,223254	0,124266	-118,836	0	10,5867	1,55237
1	0,07	0,867672	0	776.329,31	0,2356	0,130002	-114,33	0	10,1405	1,52571
1	0,08	0,967206	0	757.754,00	0,247863	0,135144	-110,228	0	9,75159	1,50275

1	0,09	1,06306	0	740.89 9,00	0,26007 1	0,1397 58	-106,469	0	9,4089 1	1,4826 6
1	0,1	1,15568	0	725.50 6,68	0,27220 8	0,1439 23	-103,003	0	9,1039 6	1,4648 8
1	0,11	1,24535	0	711.38 2,18	0,28425 9	0,1476 97	-99,7935	0	8,8306 3	1,4490 1
1	0,12	1,33237	0	698.35 7,20	0,29621 3	0,1511 37	-96,8079	0	8,5838 4	1,4347 1
1	0,13	1,41703	0	686.28 5,02	0,30805 9	0,1542 96	-94,0173	0	8,3593 5	1,4217 3
1	0,14	1,49947	0	675.06 4,92	0,31979 3	0,1571 99	-91,402	0	8,1544	1,4098 8
1	0,15	1,57988	0	664.59 7,95	0,33141 1	0,1598 79	-88,9426	0	7,9663 4	1,399
1	0,16	1,65846	0	654.79 4,97	0,34290 6	0,1623 71	-86,6212	0	7,7928 3	1,3889 6
1	0,17	1,73536	0	645.58 6,63	0,35427 7	0,1646 99	-84,424	0	7,6320 5	1,3796 5
1	0,18	1,81073	0	636.90 8,52	0,36552 1	0,1668 89	-82,338	0	7,4823 7	1,3709 7
1	0,19	1,88476	0	628.69 6,86	0,37663 2	0,1689 72	-80,3503	0	7,3422 3	1,3628 4
1	0,2	1,95736	0	620.93 5,88	0,38761 8	0,1709 3	-78,458	0	7,2113 2	1,3552 3
1	0,212	2,04285	0	612.14 4,58	0,40062 9	0,1731 52	-76,2982	0	7,0646 8	1,3466 8
1	0,226 4	2,14325	0	602.27 0,90	0,41599 8	0,1756 56	-73,8509	0	6,9020 1	1,3371 7
1	0,243 68	2,26082	0	591.28 7,02	0,43409	0,1784 59	-71,1001	0	6,7235 6	1,3266 9
1	0,264 416	2,39807	0	579.19 5,82	0,45529 9	0,1815 71	-68,0353	0	6,5301 6	1,3152 6
1	0,289 299	2,55783	0	566.02 7,37	0,48003 6	0,1850 1	-64,6507	0	6,3230 8	1,3029 2
1	0,319 159	2,74325	0	551.85 1,54	0,50870 6	0,1887 93	-60,9485	0	6,1042 9	1,2897 4
1	0,354 991	2,9577	0	536.52 4,68	0,54166 9	0,1931 29	-56,8885	0	5,8748 1	1,2756 8



1	0,397 989	3,2049	0	519.40 0,82	0,57916 1	0,1986 81	-52,3331	0	5,6335	1,2605
1	0,449 587	3,48896	0	499.81 6,11	0,62114	0,2062 8	-47,1565	0	5,3808 5	1,2441 1
1	0,511 504	3,81407	0	477.60 2,83	0,66704 7	0,2165 74	-41,3605	0	5,1224 5	1,2268 2
1	0,585 805	4,18507	0	452.98 2,19	0,71532 6	0,2302 08	-35,0788	0	4,8664 6	1,2093 8
1	0,674 966	4,60754	0	426.21 0,39	0,76288 6	0,2482 79	-28,5333	0	4,6203 7	1,1928
1	0,781 959	5,08899	0	397.69 8,87	0,81209 2	0,2701 22	-21,9921	0	4,3900 9	1,1780 3
1	0,910 351	5,63814	0	366.39 1,74	0,8685	0,2957 47	-15,4839	0	4,1759 6	1,1655 7
1	1,064 42	6,26559	0	330.33 6,08	0,93278 3	0,3291 21	-8,99381	0	3,9746	1,1561 1
1	1,249 31	6,98386	0	292.57 0,06	1,00639	0,3685 02	-3,2199	0	3,7988 9	1,1507 1
1	1,471 17	7,80977	0	254.93 8,55	1,09104	0,4133 35	1,54152	0	3,6519 7	1,1494
1	1,737 4	8,76491	0	218.84 3,65	1,18893	0,4641 29	5,70788	0	3,5331 8	1,1496 7
1	2,056 88	9,87762	0	185.15 9,72	1,30296	0,5210 93	9,11491	0	3,4391 6	1,1516 8
1	2,440 26	11,1817	0	154.55 5,24	1,43661	0,5846 95	11,868	0	3,3665 4	1,1547 2
1	2,554 65	11,5659	0	146.98 1,24	1,47599	0,6028 2	12,5044	0	3,3503 8	1,1556 2
1	2,554 65	11,5659	0	146.98 1,24	1,47599	0,6028 2	12,5044	0	3,3503 8	1,1556 2
1	2,900 31	12,7171	0	126.99 9,07	1,59384	0,6578 27	14,101	0	3,3114 5	1,1583 1
1	3,452 37	14,5332	0	101.88 1,39	1,77935	0,7493 49	15,9478	0	3,2699 1	1,1622 4
1	4,114 84	16,6885	0	79.606, 79	1,99885	0,8668 76	17,4474	0	3,2397 3	1,1662 1
1	4,909 81	19,2543	0	60.358, 00	2,26252	1,0217	18,6436	0	3,2185	1,1700 1

1	5,863 77	22,3165	0	44.123, 93	2,5797	1,2366 7	19,6785	0	3,204	1,1731 3
1	7,008 53	25,9786	0	31.756, 55	2,95011	1,5389 4	21,4616	0	3,1946 2	1,1722 2
1	8,026 9	29,2716	0	24.811, 00	3,28031	1,7752 7	22,4225	0	3,2673 5	1,1719 5
1	8,382 23	30,4394	0	22.843, 71	3,39702	1,858	22,6761	0	3,2955 8	1,1719 1
1	10,03 07	35,9776	0	16.194, 72	3,94855	2,2470 7	23,5004	0	3,4172	1,1719 3
1	12,00 88	42,8677	0	11.339, 77	4,63035	2,7284 4	24,0472	0	3,5478 1	1,1721
1	12,74 4	45,4923	0	10.017, 57	4,88887	2,9116 7	24,1822	0	3,5929 1	1,1721 7
1	14,38 26	51,4576	0	7.830,5 8	5,47414	3,3276	24,4029	0	3,6875 4	1,1723 2
1	17,23 11	62,1767	0	5.367,2 0	6,51848	4,0751 6	24,6303	0	3,8365 9	1,1725 3
1	20,64 93	75,5668	0	3.639,4 2	7,81119	5,0073	24,7732	0	3,9946 5	1,1727 2
1	23,12 95	85,6044	0	2.772,9 5	8,77254	5,7059 5	24,8336	0	4,0982 4	1,1728 1
2	0,22	- 0,37393 7	0	1,00	0,00177 245	0,1512 76	24,6246	0	3,1802 3	1,1739
2	0,32	- 0,30425	0	920.43 8,34	0,58807 2	0,0929 474	-146,541	0	0,5512 74	1,7677 5
2	0,42	- 0,24781	0	918.48 1,99	0,88853 4	0,1403 67	-146,132	0	0,5824 94	1,7639 2
2	0,52	- 0,18770 3	0	914.82 6,62	1,15272	0,1771 74	-145,487	0	0,6190 84	1,7585 9
2	0,62	- 0,12403 4	0	911.22 3,29	1,39916	0,2070 64	-144,87	0	0,6539 54	1,7536 6
2	0,72	- 0,05693	0	907.56 9,69	1,63341	0,2322 5	-144,17	0	0,6879 44	1,7476 6

43

2	0,801 152	6,71716 E-15	0	904.54 4,13	1,81704	0,2501 01	-143,517	0	0,7151 88	1,7417 2
2	0,801 152	6,71716 E-15	0	963.24 1,09	1,21925	0,0587 021	-154,314	0	6,4598 1	1,8397 4
2	0,82	0,10836 5	0	950.95 5,04	1,36016	0,0828 421	-151,972	0	5,1810 7	1,8161 3
2	0,92	0,49997	0	923.72 9,67	1,69187	0,1884 22	-146,94	0	3,2092 4	1,7699 3
2	1,02	0,78990 9	0	912.32 8,30	1,89314	0,2612 26	-144,397	0	2,6711 6	1,7456
2	1,12	1,04383	0	902.13 4,62	2,10592	0,3028 8	-141,41	0	2,4399 7	1,7149 3
2	1,22	1,283	0	888.67 4,02	2,32126	0,3164 28	-136,914	0	2,3703 7	1,6696 4
2	1,221 87	1,28744	0	888.34 0,12	2,3252	0,3163 24	-136,797	0	2,3708 5	1,6684 9
2	1,221 87	1,28744	0	888.34 0,12	2,3252	0,3163 24	-136,797	0	2,3708 5	1,6684 9
2	1,32	1,52285	0	867.98 7,26	2,52445	0,3069 46	-129,798	0	2,4273 5	1,6038 2
2	1,42	1,76854	0	844.67 1,95	2,71653	0,3018 89	-122,235	0	2,4864	1,5426 5
2	1,52	2,02014	0	818.98 2,68	2,89862	0,3004 53	-114,341	0	2,5455 5	1,4868 5
2	1,62	2,27759	0	791.22 7,26	3,07099	0,3020 99	-106,221	0	2,6035 2	1,4366
2	1,72	2,54072	0	762.03 0,02	3,2335	0,3063 45	-98,0333	0	2,6589 4	1,3920 2
2	1,82	2,8092	0	732.70 8,96	3,38577	0,3123 94	-90,0455	0	2,7101 8	1,3533 4
2	1,92	3,08259	0	703.93 7,77	3,52748	0,3198 47	-82,3891	0	2,7567 3	1,3200 3
2	2,02	3,36042	0	675.99 0,07	3,6584	0,3285 45	-75,1112	0	2,7986 5	1,2913 6
2	2,12	3,64223	0	648.94 9,52	3,7783	0,3384 56	-68,2184	0	2,8362 4	1,2666 2
2	2,22	3,92757	0	622.90	3,88688	0,3495	-61,7172	0	2,8698	1,2452

				6,37		52			3	2
2	2,34	4,27403	0	593.16 1,06	4,00144	0,3643 63	-54,4541	0	2,9052 8	1,2233 4
2	2,484	4,69497	0	559.74 8,74	4,11446	0,3843 52	-46,5141	0	2,9415 9	1,2016 9
2	2,569 85	4,94827	0	541.04 4,19	4,16734	0,3975 59	-42,1806	0	2,9604	1,1908 2
2	2,569 85	4,94827	0	541.04 4,19	4,16734	0,3975 59	-42,1806	0	2,9604	1,1908 2
2	2,656 8	5,20642	0	522.80 8,44	4,20781	0,4123 41	-38,0557	0	2,9776 3	1,1811 3
2	2,864 16	5,82765	0	478.53 9,92	4,27792	0,4552 1	-28,6845	0	3,0138 7	1,162
2	3,112 99	6,58209	0	425.64 1,77	4,35572	0,5171 45	-18,7152	0	3,0490 6	1,1463 6
2	3,411 59	7,49738	0	370.20 5,84	4,44956	0,5968 33	-9,73622	0	3,0797 4	1,1371 5
2	3,769 91	8,60567	0	316.99 4,41	4,5641	0,6929 27	-2,59526	0	3,1046 5	1,1345 4
2	4,199 89	9,94506	0	268.30 5,79	4,702	0,8062 41	2,77233	0	3,1241	1,1366 6
2	4,715 87	11,5609	0	224.58 4,65	4,86765	0,9415 27	7,08846	0	3,1390 7	1,1403 1
2	5,335 04	13,508	0	185.84 4,47	5,06685	1,1033 8	10,4318	0	3,1504	1,1452
2	6,078 05	15,8521	0	152.06 9,82	5,30591	1,2973 9	13,0286	0	3,1588 3	1,1505 2
2	6,969 66	18,6722	0	123.06 5,17	5,59244	1,5302 5	15,0512	0	3,1650 2	1,1557 6
2	8,039 59	22,0989	0	98.043, 99	5,93909	1,7731 6	16,6513	0	3,2460 1	1,1607 1
2	9,323 51	26,3328	0	76.437, 95	6,36525	2,0644 2	17,9347	0	3,3484 1	1,1653 1
2	10,86 42	31,5773	0	58.370, 67	6,89009	2,4252 7	18,9458	0	3,4586 7	1,1693 9
2	12,71 31	38,0844	0	43.655, 48	7,53705	2,8752 5	20,1444	0	3,5782 4	1,1713 9
2	14,93	46,1695	0	31.975,	8,33499	3,4396	21,6287	0	3,7076	1,1711

	17			98		3			7	3
2	17,30 1	55,1038	0	23.775, 77	9,20993	4,0627 1	22,6133	0	3,8317 1	1,1711 9
2	17,59 4	56,2295	0	22.964, 37	9,31968	4,1415 1	22,7072	0	3,8463 3	1,1712 1
2	20,78 88	68,7683	0	16.174, 08	10,5357	5,0196 4	23,4717	0	3,995	1,1714 7
2	24,62 26	84,39	0	11.210, 60	12,0359	6,1091 1	23,998	0	4,1526 1	1,1717 8
2	24,91 44	85,6036	0	10.924, 50	12,1518	6,1936 9	24,0273	0	4,1638 8	1,1718
3	39,47 09	- 12,6187	0	1,00	0,00177 245	0,1512 76	24,6246	0	3,1802 3	1,1739
3	39,57 09	- 12,3795	0	506.45 4,07	3,77615	0,0178 293	-80,7307	0	2,3708 9	1,4584 9
3	39,67 09	- 12,1423	0	506.50 5,22	5,33479	0,0353 103	-80,6848	0	2,3736 4	1,4580 9
3	39,77 09	- 11,9048	0	505.75 0,13	6,53316	0,0527 492	-80,5471	0	2,3765 4	1,4576 1
3	39,87 09	-11,667	0	504.86 8,01	7,5441	0,0701 499	-80,3991	0	2,3793 7	1,4571 5
3	39,97 09	- 11,4289	0	503.93 9,56	8,43757	0,0874 739	-80,2474	0	2,3821 7	1,4567
3	40,07 09	- 11,1906	0	502.97 9,61	9,24764	0,1047 2	-80,0923	0	2,3850 1	1,4562 4
3	40,17 09	- 10,9519	0	501.99 6,66	9,9948	0,1218 85	-79,9345	0	2,3878 8	1,4557 8
3	40,27 09	-10,713	0	501.00 0,53	10,6906	0,1389 97	-79,7751	0	2,3907 6	1,4553 2
3	40,37 09	- 10,4738	0	499.99 7,98	11,3441	0,1560 61	-79,6152	0	2,3936 4	1,4548 6
3	40,47 09	- 10,2343	0	498.99 2,79	11,9626	0,1730 71	-79,4552	0	2,3965 2	1,4544 1
3	40,57 09	- 9,99448	0	497.98 5,49	12,5516	0,1900 21	-79,295	0	2,3993 8	1,4539 5
3	40,67 09	-9,7544	0	496.97 5,27	13,1152	0,2069 07	-79,1346	0	2,4022 5	1,4535

3	40,77 09	- 9,51403	0	495.96 1,22	13,6567	0,2237 25	-78,9736	0	2,4051 1	1,4530 4
3	40,87 09	- 9,27338	0	494.94 6,25	14,1787	0,2404 73	-78,813	0	2,4079 8	1,4525 9
3	40,97 09	- 9,03245	0	494.00 8,64	14,6829	0,2571 02	-78,673	0	2,4107	1,4522 4
3	41,07 09	- 8,79127	0	493.19 1,98	15,1704	0,2735 82	-78,5652	0	2,4132	1,4520 4
3	41,17 09	- 8,54987	0	492.60 0,35	15,6433	0,2898 04	-78,5165	0	2,4152 8	1,4521 2
3	41,27 09	- 8,30828	0	492.31 0,02	16,1022	0,3056 85	-78,5469	0	2,4168 1	1,4525 7
3	41,37 09	- 8,06653	0	492.24 0,13	16,5487	0,3212 44	-78,6349	0	2,4179 5	1,4532 9
3	41,47 09	- 7,82463	0	492.39 9,64	16,9836	0,3364 45	-78,7824	0	2,4186 9	1,4542 8
3	41,59 09	- 7,53427	0	492.78 3,83	17,4913	0,3542 7	-79,0078	0	2,4192 9	1,4557
3	41,73 49	- 7,18581	0	493.46 6,18	18,082	0,3750 61	-79,333	0	2,4196 9	1,4576 5
3	41,90 77	- 6,76762	0	494.48 3,10	18,7671	0,3992 15	-79,7709	0	2,4199 6	1,4602 2
3	42,11 5	- 6,26577	0	495.85 5,91	19,558	0,4271 58	-80,3313	0	2,4201 8	1,4634 7
3	42,36 38	- 5,66352	0	497.58 1,81	20,4668	0,4593 42	-81,0192	0	2,4205 5	1,4674 6
3	42,66 24	- 4,94064	0	499.62 2,41	21,5055	0,4962 77	-81,8079	0	2,4213 5	1,4720 2
3	43,02 08	- 4,07271	0	501.89 1,82	22,6837	0,5388 43	-82,5728	0	2,4229 9	1,4762 6
3	43,45 07	- 3,03016	0	504.20 8,56	24,0125	0,5879 45	-83,2023	0	2,4260 9	1,4794 3
3	43,96 67	- 1,77696	0	506.26 1,70	25,5071	0,6444 2	-83,5744	0	2,4316 2	1,4807 8
3	44,58 59	- 0,26862 5	0	507.57 9,41	27,2076	0,7086 33	-83,5179	0	2,4409 3	1,4793 2
3	44,69	1,24216	0	507.67	27,5097	0,7194	-83,451	0	2,4429	1,4787

	59	E-12		1,20		62			2	2
3	44,69 59	1,24216 E-12	0	513.51 5,97	27,1936	0,7065 82	-84,4452	0	2,5037 2	1,4820 8
3	45,32 89	1,5846	0	512.44 7,78	28,9794	0,7697 63	-83,5824	0	2,5041	1,4760 7
3	46,22 05	3,82333	0	508.24 2,70	31,5697	0,8483 05	-81,3549	0	2,5174 1	1,4619 3
3	47,29 04	6,53254	0	498.93 2,57	34,7325	0,9319 75	-77,1885	0	2,5485 2	1,4374 4
3	48,57 44	9,83996	0	480.08 7,03	38,5178	1,0253 7	-69,5905	0	2,6072 7	1,3967 9
3	50,07 01	13,8138	0	441.10 2,57	42,7061	1,1340 5	-55,0445	0	2,7164 9	1,3290 8
3	50,07 01	13,8138	0	441.10 2,57	42,7061	1,1340 5	-55,0445	0	2,7164 9	1,3290 8
3	50,11 51	13,9361	0	439.23 6,44	42,8241	1,1371 9	-54,3528	0	2,7216 3	1,3261
3	51,96 39	19,1415	0	359.48 2,02	46,9351	1,3333 4	-28,2762	0	2,8966 3	1,2317 5
3	53,56 68	23,8669	0	297.47 7,35	49,2722	1,5792	-12,5179	0	2,995	1,1908 2
3	53,56 68	23,8669	0	297.47 7,35	49,2722	1,5792 4	-12,5179	0	2,9949 4	1,1908 2
3	54,18 25	25,7292	0	277.63 4,19	49,8505	1,6659 8	-8,36115	0	3,0539 3	1,1824 1
3	56,84 49	34,1815	0	203.07 9,29	50,9149	2,1593 1	3,56114	0	3,2950 3	1,1675
3	60,03 97	45,1173	0	140.94 6,23	51,9976	2,9090 1	10,8519	0	3,5401 2	1,1660 8
3	63,87 34	59,1472	0	98.039, 83	53,3698	3,8763 4	14,8761	0	3,7696 5	1,1689 2
3	68,47 39	77,0201	0	68.506, 41	55,0963	5,1080 3	17,2719	0	3,9928	1,1722 7
3	73,99 45	99,6936	0	48.134, 02	57,2575	6,6660 8	18,7753	0	4,2147 5	1,1751 9
3	80,61 93	128,281	0	35.394, 51	59,9438	8,3128 4	19,6641	0	4,4056 2	1,1772
3	88,56	164,07	0	26.185,	63,2571	10,265	21,2936	0	4,5947	1,1751

	9			55		4			2	8
3	91,64 9	178,318	0	23.600, 44	64,5627	11,019 7	21,7359	0	4,6598 4	1,1746 8
3	98,10 86	208,922	0	19.289, 47	67,3411	12,614 4	22,4439	0	4,7862 7	1,1739 6
3	109,5 56	264,854	0	14.183, 27	72,354	15,391 8	23,2402	0	4,9782 4	1,1732 9
3	111,9 22	276,667	0	13.390, 24	73,4027	15,961 8	23,3588	0	5,0140 9	1,1732 1
4	65,97 67	- 14,9063	0	1,00	0,00177 245	0,1512 76	24,6246	0	3,1802 3	1,1739
4	66,07 67	- 14,6469	0	415.77 8,35	4,22296	0,0160 328	-67,3955	0	2,5800 5	1,4276 2
4	66,17 67	- 14,3888	0	415.89 1,04	5,96475	0,0318 596	-67,3752	0	2,5817 7	1,4274
4	66,27 67	- 14,1305	0	415.36 9,92	7,30273	0,0476 66	-67,2799	0	2,5835 3	1,4271 1
4	66,37 67	- 13,8721	0	414.73 5,75	8,43023	0,0634 52	-67,1741	0	2,5852 6	1,4268 2
4	66,47 67	- 13,6135	0	414.05 8,76	9,42487	0,0791 989	-67,0644	0	2,587 4	1,4265
4	66,57 67	- 13,3547	0	413.35 9,31	10,3229	0,0949 299	-66,9525	0	2,5887 4	1,4262 5
4	66,67 67	- 13,0957	0	412.65 1,14	11,1485	0,1106 34	-66,84	0	2,5904 8	1,4259 7
4	66,77 67	- 12,8366	0	411.93 4,90	11,9176	0,1263	-66,7267	0	2,5922 3	1,4257
4	66,87 67	- 12,5773	0	411.21 3,28	12,6401	0,1419 33	-66,6129	0	2,5939 7	1,4254 2
4	66,97 67	- 12,3178	0	410.48 5,76	13,3232	0,1575 39	-66,4982	0	2,5957 3	1,4251 4
4	67,07 67	- 12,0581	0	409.75 3,80	13,9722	0,1731 25	-66,3831	0	2,5974 9	1,4248 6
4	67,17 67	- 11,7983	0	409.01 8,66	14,5916	0,1886 89	-66,2675	0	2,5992 5	1,4245 8
4	67,27 67	- 11,5383	0	408.28 0,87	15,1854	0,2042 26	-66,1516	0	2,6010 1	1,4243



4	67,37 67	- 11,2781	0	407.53 9,66	15,7567	0,2197 3	-66,0352	0	2,6027 8	1,4240 1
4	67,47 67	- 11,0177	0	406.79 4,56	16,308	0,2352 02	-65,9182	0	2,6045 6	1,4237 3
4	67,57 67	- 10,7572	0	406.04 6,39	16,8412	0,2506 38	-65,8008	0	2,6063 4	1,4234 5
4	67,67 67	- 10,4964	0	405.29 5,06	17,3577	0,2660 48	-65,6829	0	2,6081 2	1,4231 7
4	67,77 67	- 10,2355	0	404.57 7,21	17,8587	0,2813 99	-65,5753	0	2,6098 6	1,4229 3
4	67,87 67	-9,9745	0	403.95 0,32	18,3458	0,2966 23	-65,4947	0	2,6114 4	1,4228 2
4	67,97 67	- 9,71332	0	403.43 5,16	18,8191	0,3116 98	-65,4473	0	2,6128 6	1,4228 5
4	68,09 67	- 9,39972	0	403.02 2,14	19,3714	0,3294 84	-65,4512	0	2,6142 3	1,4231 7
4	68,24 07	-9,0232	0	402.88 4,10	20,0124	0,3502 77	-65,5615	0	2,6153 3	1,4240 3
4	68,41 35	- 8,57112	0	403.10 0,18	20,754	0,3744 69	-65,8058	0	2,6160 8	1,4255 7
4	68,62 09	- 8,02844	0	403.81 2,49	21,6081	0,4023 85	-66,2298	0	2,6163 7	1,4280 1
4	68,86 97	-7,3773	0	405.02 7,95	22,5874	0,4344 86	-66,8379	0	2,6163 7	1,4313 9
4	69,16 83	- 6,59609	0	406.72 2,76	23,7045	0,4712 77	-67,6295	0	2,6162 9	1,4357 4
4	69,52 66	- 5,65865	0	408.86 8,59	24,9718	0,5132 55	-68,5996	0	2,6163 5	1,4410 6
4	69,95 66	- 4,53357	0	411.38 8,42	26,4008	0,5612 75	-69,6007	0	2,6169 3	1,4463 9
4	70,47 26	- 3,18285	0	414.04 8,00	27,999	0,6165 45	-70,4406	0	2,6186 8	1,4505 1
4	71,09 17	-1,5601	0	416.43 7,27	29,7763	0,6802 17	-70,9575	0	2,6226 1	1,4525 1
4	71,68 59	2,11374 E-12	0	417.85 0,69	31,393	0,7385 7	-71,0092	0	2,6282 3	1,4518 6
4	71,68 59	2,11374 E-12	0	423.70 5,81	31,022	0,7288 6	-71,9996	0	2,6768	1,4548

4	71,83 48	0,39828 6	0	423.82 6,11	31,4272	0,7437 25	-71,9452	0	2,6755 6	1,4543 2
4	72,72 64	2,78322	0	423.04 6,83	33,9246	0,8261 27	-70,9295	0	2,6757 8	1,4475 1
4	73,79 63	5,65204	0	418.88 1,87	37,0128	0,9141	-68,3943	0	2,6883 8	1,4324 2
4	75,08 02	9,12203	0	408.15 6,03	40,7779	1,0121 2	-63,1561	0	2,7197 5	1,4039
4	76,62 09	13,3562	0	384.66 7,73	45,2166	1,1300 9	-53,0463	0	2,7811 7	1,3546 5
4	77,42 83	15,6201	0	364.64 6,57	47,4187	1,1960 8	-44,9639	0	2,8298 1	1,3192 7
4	77,42 83	15,6201	0	364.64 6,57	47,4187	1,1960 8	-44,9639	0	2,8298 1	1,3192 7
4	78,46 98	18,609	0	328.75 9,65	49,9605	1,2974 7	-31,5076	0	2,9083 9	1,2671 7
4	80,68 84	25,2034	0	256.36 5,79	54,0444	1,6046 7	-10,3078	0	3,0352 4	1,2037 8
4	81,72 65	28,4005	0	229.22 2,76	55,3962	1,7424 2	-4,37062	0	3,1206 6	1,1908 2
4	81,72 65	28,4005	0	229.22 2,76	55,3962	1,7424 1	-4,37062	0	3,1206 7	1,1908 2
4	83,35 07	33,5663	0	193.90 6,79	56,8965	1,9793 1	1,8442	0	3,2385 9	1,1808 2
4	86,54 55	44,2549	0	141.32 0,34	58,3914	2,5552 6	9,34167	0	3,4492 7	1,1734 4
4	90,37 93	57,9302	0	97.829, 78	59,7308	3,4378 2	14,0992	0	3,6817 7	1,1731 2
4	94,97 98	75,4371	0	66.673, 77	61,4238	4,6490 6	16,9461	0	3,9204 6	1,1750 6
4	100,5	97,7483	0	45.913, 04	63,5527	6,1871 8	18,6354	0	4,1542 8	1,1771 5
4	107,1 25	125,955	0	33.382, 94	66,2062	7,8109 3	19,5949	0	4,3527 2	1,1786 3
4	115,0 75	161,354	0	24.471, 82	69,4869	9,7456 8	21,1209	0	4,5485 1	1,1767 2
4	116,0 78	165,927	0	23.632, 06	69,9072	9,9897 1	21,285	0	4,5709 5	1,1764 8

4	124,614	205,764	0	17.936,51	73,5363	12,072	22,3435	0	4,7455	1,17502
4	135,299	257,466	0	13.417,34	78,1782	14,6492	23,1376	0	4,93032	1,17407
5	92,5022	-16,4533	0	1,00	0,00177245	0,151276	24,6246	0	3,18023	1,1739
5	92,6022	-16,1862	0	376.347,91	4,48872	0,0154122	-61,6638	0	2,65918	1,41604
5	92,7022	-15,9202	0	376.502,58	6,33957	0,0306653	-61,6584	0	2,66047	1,41589
5	92,8022	-15,6541	0	376.057,74	7,76302	0,0458867	-61,5774	0	2,66189	1,41566
5	92,9022	-15,3879	0	375.511,06	8,96071	0,0611082	-61,4867	0	2,66328	1,41543
5	93,0022	-15,1215	0	374.933,13	10,0173	0,0762963	-61,3935	0	2,66466	1,4152
5	93,1022	-14,8549	0	374.332,32	10,9722	0,0914656	-61,2977	0	2,66606	1,41497
5	93,2022	-14,5882	0	373.722,44	11,8485	0,106629	-61,2012	0	2,66746	1,41475
5	93,3022	-14,3214	0	373.110,42	12,6638	0,121773	-61,1049	0	2,66884	1,41452
5	93,4022	-14,0545	0	372.494,93	13,4296	0,13689	-61,0083	0	2,67023	1,4143
5	93,5022	-13,7874	0	371.875,73	14,1542	0,151979	-60,9113	0	2,67161	1,41408
5	93,6022	-13,5202	0	371.252,68	14,8429	0,167049	-60,8137	0	2,67301	1,41386
5	93,7022	-13,2528	0	370.625,62	15,5002	0,182104	-60,7156	0	2,67441	1,41364
5	93,8022	-12,9853	0	369.995,69	16,1299	0,197144	-60,6171	0	2,67581	1,41341
5	93,9022	-12,7176	0	369.363,58	16,7349	0,212172	-60,5183	0	2,67722	1,41319
5	94,0022	-12,4498	0	368.729,63	17,3182	0,22718	-60,4192	0	2,67863	1,41296
5	94,10	-	0	368.09	17,882	0,2421	-60,3198	0	2,6800	1,4127

	22	12,1819		3,24		67			4	4
5	94,20 22	- 11,9138	0	367.45 4,09	18,4282	0,2571 3	-60,22	0	2,6814 5	1,4125 1
5	94,30 22	- 11,6456	0	366.81 3,73	18,9583	0,2720 68	-60,1202	0	2,6828 7	1,4122 9
5	94,40 22	- 11,3772	0	366.17 8,00	19,4737	0,2869 74	-60,0223	0	2,6842 8	1,4120 8
5	94,50 22	- 11,1088	0	365.54 8,10	19,9751	0,3018 53	-59,9265	0	2,6856 9	1,4118 7
5	94,62 22	- 10,7864	0	364.88 7,21	20,5599	0,3195 65	-59,8417	0	2,6872 3	1,4117 6
5	94,76 62	- 10,3994	0	364.39 0,22	21,2391	0,3403 8	-59,833	0	2,6886 4	1,4120 5
5	94,93 9	- 9,93477	0	364.20 7,92	22,0238	0,3646 6	-59,9524	0	2,6897 5	1,4129 7
5	95,14 63	- 9,37698	0	364.48 0,32	22,9274	0,3927 43	-60,2489	0	2,6903 9	1,4147 6
5	95,39 52	- 8,70741	0	365.31 3,40	23,9629	0,4249 99	-60,7609	0	2,6905 4	1,4176 2
5	95,69 38	- 7,90389	0	366.74 6,51	25,1443	0,4618 32	-61,5055	0	2,6902 9	1,4216 5
5	96,05 21	- 6,93987	0	368.72 9,92	26,4852	0,5037 5	-62,474	0	2,6899 4	1,4268 4
5	96,48 21	- 5,78328	0	371.17 8,96	27,9982	0,5513 48	-63,6035	0	2,6898 5	1,4328 7
5	96,99 8	- 4,39517	0	373.92 7,06	29,6927	0,6058 17	-64,6688	0	2,6904 9	1,4383 1
5	97,61 72	-2,7286	0	376.72 1,79	31,5729	0,6684 78	-65,523	0	2,6925 9	1,4422 9
5	98,36 02	- 0,72650 6	0	379.19 7,32	33,6408	0,7409 01	-66,0033	0	2,6967 7	1,4439
5	98,62 95	1,1828E -14	0	379.81 3,81	34,3689	0,7661 27	-66,0314	0	2,6988 7	1,4436 6
5	98,62 95	1,1828E -14	0	385.29 9,49	33,9758	0,7577 36	-66,9556	0	2,7405 5	1,4462 7
5	99,25 18	1,70432	0	385.64 7,99	35,7067	0,8152 25	-66,6482	0	2,7380 7	1,4438 5

5	100,3 22	4,63595	0	383.93 9,35	38,7776	0,9045 12	-65,0793	0	2,7431 8	1,4340 9
5	101,6 06	8,16911	0	377.42 0,56	42,5593	1,0026 5	-61,3259	0	2,7627 3	1,4130 2
5	103,1 46	12,4549	0	361.80 2,03	47,1027	1,1181 8	-53,8055	0	2,8040 2	1,3747 2
5	104,7 7	17,0612	0	331.28 3,18	51,6691	1,2501 7	-40,6529	0	2,8756 6	1,3158 2
5	104,7 7	17,0612	0	331.28 3,18	51,6691	1,2501 7	-40,6529	0	2,8756 6	1,3158 2
5	104,9 95	17,7106	0	324.48 8,47	52,2569	1,2704 2	-37,8521	0	2,8910 5	1,3043 1
5	107,2 14	24,2724	0	258.29 1,48	57,1225	1,5403 3	-14,9918	0	3,0083 2	1,2252 2
5	109,8 16	32,3532	0	196.44 1,10	61,0151	1,8858 5	-0,568109	0	3,1988 4	1,1908 2
5	109,8 16	32,3532	0	196.44 1,10	61,0151	1,8858 5	-0,568109	0	3,1988 4	1,1908 2
5	109,8 76	32,5445	0	195.29 7,14	61,0864	1,8939 6	-0,35496	0	3,2027 7	1,1904 4
5	113,0 71	43,1061	0	143.94 5,51	63,8603	2,3901 4	7,9082	0	3,3997 2	1,1789 1
5	116,9 05	56,5582	0	101.71 2,58	65,773	3,1485 7	13,1399	0	3,6161 2	1,1758 5
5	121,5 05	73,7677	0	68.657, 21	67,5105	4,3059 3	16,4578	0	3,8609 2	1,1765 4
5	127,0 26	95,7803	0	46.578, 81	69,6096	5,8249 9	18,393	0	4,1050 9	1,1780 9
5	133,6 51	123,701	0	33.449, 98	72,2389	7,4596 4	19,4648	0	4,3135 4	1,1793 1
5	141,6	158,812	0	24.400, 90	75,4962	9,3801 9	20,8589	0	4,5144 2	1,1778 5
5	142,4 08	162,466	0	23.716, 36	75,8324	9,5758 4	21,0035	0	4,5330 6	1,1776
5	151,1 4	202,924	0	17.839, 09	79,5224	11,697 7	22,1798	0	4,7162 6	1,1757 5
5	161,3 68	252,102	0	13.483, 08	83,9432	14,158 3	23,0011	0	4,8974 2	1,1746

6	118,2 9	- 17,6675	0	1,00	0,00177 245	0,1512 76	24,6246	0	3,1802 3	1,1739
6	118,3 9	- 17,3955	0	349.30 3,84	4,68337	0,0150 324	-57,7558	0	2,7098 6	1,4086 5
6	118,4 9	- 17,1244	0	349.41 6,90	6,61729	0,0299 12	-57,7489	0	2,7110 5	1,4085 3
6	118,5 9	- 16,8533	0	349.03 1,11	8,10216	0,0447 807	-57,6792	0	2,7122 4	1,4083 3
6	118,6 9	-16,582	0	348.55 0,03	9,35174	0,0596 494	-57,5997	0	2,7134 1	1,4081 4
6	118,7 9	- 16,3106	0	348.04 0,19	10,4535	0,0744 92	-57,5177	0	2,7145 7	1,4079 5
6	118,8 9	- 16,0391	0	347.51 2,08	11,449	0,0893 205	-57,4339	0	2,7157 4	1,4077 6
6	118,9 9	- 15,7675	0	346.97 5,40	12,3629	0,1041 44	-57,3493	0	2,7169 1	1,4075 7
6	119,0 9	- 15,4957	0	346.43 4,75	13,2131	0,1189 51	-57,2644	0	2,7180 7	1,4073 8
6	119,1 9	- 15,2238	0	345.88 9,28	14,0119	0,1337 33	-57,179	0	2,7192 5	1,4071 9
6	119,2 9	- 14,9519	0	345.34 0,73	14,7672	0,1484 96	-57,0933	0	2,7204 2	1,407
6	119,3 9	- 14,6798	0	344.78 8,29	15,4851	0,1632 44	-57,007	0	2,7216	1,4068 1
6	119,4 9	- 14,4075	0	344.23 2,62	16,17	0,1779 85	-56,9203	0	2,7227 8	1,4066 3
6	119,5 9	- 14,1352	0	343.67 4,74	16,8258	0,1927 17	-56,8333	0	2,7239 7	1,4064 4
6	119,6 9	- 13,8627	0	343.11 5,13	17,4563	0,2074 35	-56,7461	0	2,7251 6	1,4062 5
6	119,7 9	- 13,5902	0	342.55 3,39	18,0642	0,2221 37	-56,6586	0	2,7263 5	1,4060 6
6	119,8 9	- 13,3175	0	341.98 9,22	18,6518	0,2368 19	-56,5707	0	2,7275 4	1,4058 7
6	119,9 9	- 13,0447	0	341.42 2,33	19,2212	0,2514 81	-56,4825	0	2,7287 4	1,4056 8
6	120,0	-	0	340.85	19,7738	0,2661	-56,3939	0	2,7299	1,4054

	9	12,7717		3,36		23			4	8
6	120,1 9	- 12,4987	0	340.28 2,17	20,3107	0,2807 51	-56,3049	0	2,7311 5	1,4052 9
6	120,2 9	- 12,2255	0	339.72 4,79	20,833	0,2953 49	-56,2209	0	2,7323 3	1,4051 2
6	120,4 1	- 11,8976	0	339.11 6,32	21,4422	0,3127 61	-56,1402	0	2,7336 7	1,4050 1
6	120,5 54	- 11,5038	0	338.50 3,76	22,149	0,3334 65	-56,0826	0	2,7351 1	1,4050 5
6	120,7 27	- 11,0311	0	338.09 8,16	22,9665	0,3577 42	-56,122	0	2,7363 8	1,4055 8
6	120,9 34	- 10,4636	0	338.11 3,59	23,907	0,3858 77	-56,3346	0	2,7372	1,4069 6
6	121,1 83	- 9,78235	0	338.68 3,89	24,9849	0,4182 09	-56,7696	0	2,7374 8	1,4094 2
6	121,4 82	- 8,96486	0	339.85 6,08	26,2145	0,4551 56	-57,4452	0	2,7373 4	1,4130 6
6	121,8 4	- 7,98406	0	341.64 0,28	27,6109	0,4971 31	-58,3727	0	2,7369 2	1,4179 8
6	122,2 7	- 6,80734	0	343.97 9,81	29,1867	0,5446 44	-59,54	0	2,7365 2	1,4241 6
6	122,7 86	- 5,39537	0	346.76 2,66	30,9514	0,5986 24	-60,7849	0	2,7365	1,4306 4
6	123,4 05	- 3,70061	0	349.71 7,85	32,9137	0,6604 53	-61,8573	0	2,7375 4	1,4358 9
6	124,1 48	- 1,66543	0	352.47 9,83	35,0817	0,7316 15	-62,5835	0	2,7404 5	1,4389 4
6	124,7 55	1,56179 E-14	0	353.98 5,61	36,7603	0,7873 58	-62,7539	0	2,7442 7	1,4390 6
6	124,7 55	1,56179 E-14	0	359.18 1,77	36,35	0,7797 85	-63,6266	0	2,7815 7	1,4414 5
6	125,0 4	0,79068 7	0	359.50 9,88	37,139	0,8058 36	-63,5787	0	2,7799 9	1,4408 9
6	126,1 1	3,76491	0	359.12 1,35	40,1941	0,8962 49	-62,6015	0	2,7810 2	1,4344 3
6	127,3 93	7,34261	0	354.97 5,99	43,9778	0,9945 76	-59,7793	0	2,7939 3	1,4181 8
6	128,9	11,6687	0	343.63	48,5741	1,1083	-53,7613	0	2,8244	1,3866

	34			0,12		8			9	5
6	130,7 83	16,9424	0	317.65 5,48	53,9303	1,2539 9	-41,7774	0	2,8851 2	1,3309 5
6	131,2 17	18,1983	0	308.45 8,36	55,1169	1,2919 3	-37,8017	0	2,9051 6	1,3140 9
6	131,2 17	18,1983	0	308.45 8,36	55,1169	1,2919 3	-37,8017	0	2,9051 6	1,3140 9
6	133,0 02	23,4682	0	260.40 7,83	59,4139	1,485	-19,3484	0	2,9963 7	1,2455 1
6	135,6 64	31,6665	0	197.34 5,59	64,1011	1,8308 8	-2,50039	0	3,1747 8	1,1995
6	137,0 19	36,0264	0	173.16 0,07	65,9243	2,0113 4	2,09323	0	3,2596 2	1,1908
6	137,0 19	36,0264	0	173.16 0,07	65,9243	2,0113 5	2,09323	0	3,2595 9	1,1908 2
6	138,8 59	42,1204	0	146.38 1,28	67,8848	2,2784	6,638	0	3,3643 5	1,1836 6
6	142,6 93	55,4134	0	104.67 5,72	70,6079	2,9515 6	12,3309	0	3,5685 8	1,1782 7
6	147,2 93	72,3749	0	71.244, 12	72,7311	4,0013 5	15,9634	0	3,8046 9	1,1777 1
6	152,8 14	94,108	0	47.568, 66	74,8031	5,5018 4	18,1626	0	4,0589 9	1,1787 8
6	159,4 38	121,772	0	33.653, 14	77,4114	7,1538 2	19,3524	0	4,2782 3	1,1798
6	167,3 88	156,618	0	24.407, 77	80,647	9,0611 4	20,6439	0	4,4840 2	1,1787 2
6	168,1 52	160,052	0	23.747, 82	80,9632	9,2457 1	20,7905	0	4,502 5	1,1784 6
6	176,9 28	200,463	0	17.778, 13	84,6523	11,370 7	22,051	0	4,6901 2	1,1763 1
6	186,9 45	248,361	0	13.484, 82	88,9621	13,774 1	22,9034	0	4,8710 5	1,175
7	143,5 24	- 18,6584	0	1,00	0,00177 245	0,1512 76	24,6246	0	3,1802 3	1,1739
7	143,6 24	- 18,3828	0	328.98 5,18	4,84023	0,0147 649	-54,8307	0	2,7461 8	1,4033 7



7	143,7 24	- 18,1082	0	329.09 3,47	6,83958	0,0293 896	-54,8272	0	2,7472 5	1,4032 7
7	143,8 24	- 17,8334	0	328.74 1,47	8,37447	0,0440 058	-54,7642	0	2,7482 9	1,4031
7	143,9 24	- 17,5585	0	328.29 9,54	9,6659	0,0586 253	-54,6914	0	2,7493 3	1,4029 3
7	144,0 24	- 17,2835	0	327.83 2,53	10,8044	0,0732 219	-54,6166	0	2,7503 6	1,4027 6
7	144,1 24	- 17,0084	0	327.34 8,95	11,8332	0,0878 059	-54,54	0	2,7513 9	1,4025 9
7	144,2 24	- 16,7333	0	326.85 6,82	12,7776	0,1023 87	-54,4626	0	2,7524 3	1,4024 3
7	144,3 24	-16,458	0	326.36 1,45	13,656	0,1169 56	-54,3851	0	2,7534 6	1,4022 6
7	144,4 24	- 16,1826	0	325.86 1,81	14,481	0,1315 04	-54,3071	0	2,7544 9	1,4020 9
7	144,5 24	- 15,9071	0	325.35 9,42	15,2614	0,1460 34	-54,2287	0	2,7555 3	1,4019 3
7	144,6 24	- 15,6315	0	324.85 3,80	16,0031	0,1605 51	-54,15	0	2,7565 7	1,4017 6
7	144,7 24	- 15,3557	0	324.34 5,00	16,7106	0,1750 63	-54,0708	0	2,7576 2	1,4015 9
7	144,8 24	- 15,0799	0	323.83 4,13	17,3882	0,1895 68	-53,9914	0	2,7586 7	1,4014 2
7	144,9 24	-14,804	0	323.32 1,59	18,0395	0,2040 62	-53,9117	0	2,7597 2	1,4012 6
7	145,0 24	-14,528	0	322.80 7,53	18,6673	0,2185 45	-53,8318	0	2,7607 7	1,4010 9
7	145,1 24	- 14,2519	0	322.29 1,37	19,2741	0,2330 12	-53,7516	0	2,7618 2	1,4009 2
7	145,2 24	- 13,9756	0	321.77 2,82	19,862	0,2474 62	-53,6711	0	2,7628 8	1,4007 5
7	145,3 24	- 13,6993	0	321.25 2,26	20,4326	0,2618 93	-53,5902	0	2,7639 4	1,4005 8
7	145,4 24	- 13,4228	0	320.72 9,79	20,9872	0,2763 1	-53,5091	0	2,7650 1	1,4004 1
7	145,5 24	- 13,1463	0	320.20 5,45	21,5264	0,2907 22	-53,4277	0	2,7660 8	1,4002 4

7	145,6 44	- 12,8143	0	319.60 8,49	22,1557	0,3079 46	-53,3414	0	2,7673 2	1,4000 9
7	145,7 88	- 12,4157	0	318.94 7,32	22,886	0,3285 15	-53,2573	0	2,7687 3	1,3999 9
7	145,9 61	- 11,9372	0	318.39 2,19	23,7303	0,3527 83	-53,238	0	2,7700 9	1,4002 4
7	146,1 68	- 11,3627	0	318.21 2,55	24,7018	0,3809 69	-53,3814	0	2,7710 7	1,4012 8
7	146,4 17	-10,673	0	318.56 7,99	25,8152	0,4133 87	-53,7487	0	2,7715	1,4034
7	146,7 16	- 9,84537	0	319.53 9,15	27,085	0,4504 19	-54,3696	0	2,7714 4	1,4067 6
7	147,0 74	- 8,85232	0	321.15 7,09	28,5272	0,4924 46	-55,262	0	2,771	1,4114 6
7	147,5 04	- 7,66096	0	323.37 0,43	30,1557	0,5399 51	-56,4195	0	2,7704 6	1,4175 4
7	148,0 2	- 6,23156	0	326.08 8,98	31,9812	0,5936 39	-57,7511	0	2,7701 5	1,4244 9
7	148,6 39	-4,5162	0	329.13 7,37	34,0058	0,6549 83	-59,0012	0	2,7705 4	1,4307 6
7	149,3 82	- 2,45688	0	332.13 9,39	36,242	0,7254 06	-59,9518	0	2,7724 4	1,4351 1
7	150,2 68	4,65093 E-12	0	334.53 1,90	38,7286	0,8053 3	-60,359	0	2,7769 4	1,4362 2
7	150,2 68	4,65093 E-12	0	339.49 8,47	38,3041	0,7983 22	-61,1907	0	2,8111 4	1,4384 4
7	150,2 74	0,01740 94	0	339.50 8,41	38,3212	0,7988 84	-61,1914	0	2,8111	1,4384 4
7	151,3 44	3,02327	0	339.99 9,78	41,3628	0,8900 03	-60,6493	0	2,8093 8	1,4344
7	152,6 28	6,6348	0	337.40 7,73	45,1457	0,9883 67	-58,4802	0	2,818	1,4215 9
7	154,1 69	10,993	0	328.81 4,18	49,7747	1,1007 8	-53,4787	0	2,8417 6	1,3947 9
7	156,0 17	16,2875	0	308.69 1,28	55,2497	1,2416	-43,5377	0	2,8892 4	1,3469 8
7	156,9 94	19,1279	0	291.18 7,40	57,9938	1,3248 1	-35,6111	0	2,9270 4	1,3126 2

7	156,9 94	19,1279	0	291.18 7,40	57,9938	1,3248 1	-35,6111	0	2,9270 4	1,3126 2
7	158,2 36	22,8004	0	260.31 8,60	61,1276	1,4515 4	-22,9408	0	2,9872 9	1,2637 5
7	160,8 98	30,9514	0	199.03 1,74	66,3711	1,7818	-4,542	0	3,1515 2	1,2082 9
7	163,4 08	39,0592	0	156.75 3,97	70,0011	2,1145 4	3,96277	0	3,3044 9	1,1908 2
7	163,4 08	39,0592	0	156.75 3,97	70,0011	2,1145 5	3,96277	0	3,3044 8	1,1908 2
7	164,0 93	41,3408	0	147.45 1,86	70,8164	2,2109 3	5,57846	0	3,3415 5	1,1881 2
7	167,9 27	54,544	0	106.24 0,56	74,2562	2,8301 5	11,6668	0	3,5375 2	1,1806 9
7	172,5 27	71,336	0	73.140, 33	76,9676	3,7836 5	15,5257	0	3,7622 2	1,1789 2
7	178,0 48	92,8347	0	48.438, 52	79,1358	5,2431 2	17,9459	0	4,0205 3	1,1794 5
7	184,6 73	120,254	0	34.046, 55	81,7224	6,8691 4	19,2328	0	4,2441 4	1,1802 3
7	192,6 22	154,851	0	24.536, 32	84,9373	8,7632 6	20,4257	0	4,4546 7	1,1795 5
7	193,4 89	158,72	0	23.773, 26	85,2938	8,9716 7	20,6031	0	4,4754 8	1,1792 1
7	202,1 62	198,438	0	17.796, 10	88,9218	11,064	21,9239	0	4,665	1,1768 2
7	212,2 2	246,296	0	13.451, 12	93,231	13,470 1	22,8249	0	4,8497 6	1,1753 4
8	168,3 82	- 19,5087	0	1,00	0,00177 245	0,1512 76	24,6246	0	3,1802 3	1,1739
8	168,4 82	- 19,2305	0	312.68 6,84	4,96677	0,0145 597	-52,4915	0	2,7742 9	1,3992 9
8	168,5 82	-18,953	0	312.84 9,04	7,0147	0,0290 121	-52,5002	0	2,7751 3	1,3992 4
8	168,6 82	- 18,6754	0	312.55 2,54	8,58811	0,0434 49	-52,4465	0	2,7760 2	1,3990 9
8	168,7	-	0	312.15	9,91359	0,0578	-52,3816	0	2,7769	1,3989

	82	18,3978		9,17		787			4	4
8	168,8 82	-18,12	0	311.72 6,04	11,0827	0,0722 825	-52,312	0	2,7778 7	1,3987 9
8	168,9 82	- 17,8422	0	311.27 1,67	12,139	0,0866 733	-52,24	0	2,7788 3	1,3986 3
8	169,0 82	- 17,5643	0	310.80 6,77	13,1101	0,1010 5	-52,1669	0	2,7797 8	1,3984 8
8	169,1 82	- 17,2862	0	310.33 7,77	14,0124	0,1154 25	-52,0935	0	2,7807 4	1,3983 2
8	169,2 82	- 17,0081	0	309.86 7,55	14,8587	0,1297 95	-52,0202	0	2,7816 9	1,3981 7
8	169,3 82	- 16,7299	0	309.39 6,96	15,6585	0,1441 57	-51,9469	0	2,7826 3	1,3980 2
8	169,4 82	- 16,4516	0	308.92 5,79	16,4185	0,1585 08	-51,8738	0	2,7835 7	1,3978 7
8	169,5 82	- 16,1732	0	308.45 4,76	17,1434	0,1728 6	-51,8007	0	2,7845 1	1,3977 2
8	169,6 82	- 15,8947	0	307.98 3,74	17,8375	0,1872 1	-51,7277	0	2,7854 5	1,3975 7
8	169,7 82	- 15,6161	0	307.51 1,92	18,5047	0,2015 51	-51,6546	0	2,7863 8	1,3974 2
8	169,8 82	- 15,3374	0	307.03 8,86	19,1487	0,2158 69	-51,5813	0	2,7873 2	1,3972 7
8	169,9 82	- 15,0586	0	306.56 4,26	19,7709	0,2301 78	-51,5078	0	2,7882 6	1,3971 2
8	170,0 82	- 14,7798	0	306.08 7,68	20,374	0,2444 66	-51,434	0	2,7892 1	1,3969 7
8	170,1 82	- 14,5008	0	305.60 8,98	20,959	0,2587 43	-51,3598	0	2,7901 6	1,3968 2
8	170,2 82	- 14,2217	0	305.12 8,02	21,5277	0,2730 06	-51,2853	0	2,7911 1	1,3966 7
8	170,3 82	- 13,9426	0	304.64 4,83	22,0809	0,2872 59	-51,2105	0	2,7920 7	1,3965 1
8	170,5 02	- 13,6075	0	304.08 5,20	22,7263	0,3043 13	-51,1283	0	2,7931 9	1,3963 6
8	170,6 46	- 13,2052	0	303.48 8,19	23,4764	0,3246 33	-51,0565	0	2,7944 4	1,3963 1
8	170,8	-	0	302.95	24,3445	0,3486	-51,035	0	2,7957	1,3965

	19	12,7222		2,81		63				3
8	171,0 26	- 12,1424	0	302.68 8,01	25,3424	0,3767 58	-51,1419	0	2,7967 2	1,3973 8
8	171,2 75	- 11,4464	0	302.87 3,37	26,4849	0,4092 26	-51,447	0	2,7973 1	1,3991 9
8	171,5 74	- 10,6111	0	303.65 1,88	27,788	0,4463 64	-52,0063	0	2,7973 8	1,4022 3
8	171,9 32	- 9,60865	0	305.08 3,68	29,2672	0,4885 34	-52,8477	0	2,7970 2	1,4066 6
8	172,3 62	- 8,40603	0	307.16 3,19	30,9377	0,5361 26	-53,9788	0	2,7964 1	1,4125 6
8	172,8 78	- 6,96325	0	309.80 7,73	32,8122	0,5897 58	-55,3355	0	2,7959 2	1,4196 2
8	173,4 97	-5,2321	0	312.84 6,03	34,9001	0,6506 2	-56,6983	0	2,7959 2	1,4265 4
8	174,2 4	-3,1543	0	315.98 9,95	37,2068	0,7202 27	-57,8402	0	2,7971 5	1,432 5
8	175,1 32	- 0,65898 6	0	318.77 3,30	39,7411	0,8004 5	-58,5092	0	2,8005 1	1,4345 8
8	175,3 67	2,87354 E-14	0	319.29 8,44	40,3963	0,8207 53	-58,5631	0	2,8017 7	1,4345 8
8	175,3 67	2,87354 E-14	0	324.07 6,41	39,9599	0,8141 66	-59,3609	0	2,8336 4	1,4366 7
8	176,2 02	2,36382	0	324.75 7,31	42,3369	0,8845 97	-59,0976	0	2,8315 9	1,4344 2
8	177,4 86	6,00225	0	323.21 1,12	46,1172	0,9830 02	-57,4016	0	2,8372 8	1,4241 4
8	179,0 26	10,3883	0	316.31 0,59	50,7582	1,0949 2	-53,0636	0	2,8566 3	1,4005 2
8	180,8 75	15,7053	0	299.66 9,57	56,2967	1,2330 3	-44,3765	0	2,8960 7	1,3577 7
8	182,3 23	19,9298	0	277.15 3,73	60,4298	1,3543	-33,8151	0	2,9440 1	1,3113 7
8	182,3 23	19,9298	0	277.15 3,73	60,4298	1,3543	-33,8151	0	2,9440 1	1,3113 7
8	183,0 94	22,2169	0	259.05 2,57	62,4305	1,4312 8	-26,0073	0	2,9797 8	1,2804 1

8	185,7 56	30,3249	0	200.62 2,98	68,1311	1,7409 6	-6,5678	0	3,1314 1	1,2171 4
8	188,9 51	40,6494	0	148.28 1,25	73,0987	2,1606 7	4,59986	0	3,3238 8	1,1923 8
8	189,3 4	41,9472	0	143.38 0,73	73,6155	2,2131	5,47768	0	3,3438 3	1,1908 2
8	189,3 4	41,9472	0	143.38 0,73	73,6155	2,2131 1	5,47768	0	3,3438 1	1,1908 2
8	192,7 85	53,7559	0	107.66 5,72	77,2921	2,7313 7	11,0478	0	3,5114 9	1,1829 8
8	197,3 85	70,4056	0	74.869, 39	80,5755	3,6060 2	15,1121	0	3,7259 4	1,1801 1
8	202,9 06	91,6837	0	49.525, 74	83,0352	4,9940 3	17,7192	0	3,9819 3	1,1800 5
8	209,5 31	118,892	0	34.312, 16	85,5936	6,6329 3	19,1289	0	4,2149 9	1,1806 3
8	217,4 8	153,279	0	24.586, 53	88,7912	8,5140 6	20,2378	0	4,4296	1,1802 8
8	218,3 77	157,261	0	23.790, 59	89,1584	8,7290 7	20,4323	0	4,4514 7	1,1799
8	227,0 2	196,656	0	17.746, 66	92,7588	10,809 1	21,8172	0	4,6437	1,1772 6
8	237,0 19	244,036	0	13.402, 96	97,0274	13,195 7	22,7535	0	4,8302	1,1756 4
9	188,0 68	- 20,1034	0	1,00	0,00177 245	0,1512 76	24,6246	0	3,1802 3	1,1739
9	188,1 68	- 19,8233	0	301.97 4,64	5,0581	0,0144 314	-50,958	0	2,7922 7	1,3966 9
9	188,2 68	- 19,5441	0	302.07 7,89	7,14687	0,0287 444	-50,9592	0	2,7931 9	1,3966 3
9	188,3 68	- 19,2647	0	301.79 1,80	8,7483	0,0430 634	-50,9083	0	2,7940 1	1,3965
9	188,4 68	- 18,9853	0	301.40 8,96	10,1008	0,0573 522	-50,8455	0	2,7948 8	1,3963 5
9	188,5 68	- 18,7057	0	300.98 5,94	11,2911	0,0716 359	-50,7778	0	2,7957 8	1,3962 1
9	188,6	-	0	300.55	12,3648	0,0859	-50,7096	0	2,7966	1,3960

	68	18,4261		3,78		242			6	6
9	188,7 68	- 18,1464	0	300.11 9,77	13,3518	0,1002 01	-50,6416	0	2,7975 3	1,3959 2
9	188,8 68	- 17,8666	0	299.68 1,83	14,271	0,1144 57	-50,5734	0	2,7984	1,3957 8
9	188,9 68	- 17,5867	0	299.23 8,76	15,1343	0,1286 98	-50,5044	0	2,7992 8	1,3956 4
9	189,0 68	- 17,3068	0	298.79 1,42	15,9494	0,1429 37	-50,4349	0	2,8001 6	1,3955
9	189,1 68	- 17,0267	0	298.34 2,03	16,7233	0,1571 75	-50,3651	0	2,8010 5	1,3953 6
9	189,2 68	- 16,7465	0	297.89 2,03	17,4617	0,1714 08	-50,2954	0	2,8019 3	1,3952 2
9	189,3 68	- 16,4663	0	297.44 1,64	18,1694	0,1856 31	-50,2256	0	2,8028 1	1,3950 8
9	189,4 68	-16,186	0	296.99 0,34	18,8499	0,1998 41	-50,1558	0	2,8036 9	1,3949 4
9	189,5 68	- 15,9056	0	296.53 7,36	19,5062	0,2140 38	-50,0857	0	2,8045 8	1,3947 9
9	189,6 68	- 15,6251	0	296.08 2,69	20,1407	0,2282 2	-50,0154	0	2,8054 6	1,3946 5
9	189,7 68	- 15,3445	0	295.62 6,50	20,7554	0,2423 89	-49,9448	0	2,8063 5	1,3945 1
9	189,8 68	- 15,0638	0	295.16 8,54	21,3514	0,2565 53	-49,874	0	2,8072 4	1,3943 7
9	189,9 68	-14,783	0	294.70 8,64	21,9307	0,2707 04	-49,8028	0	2,8081 4	1,3942 3
9	190,0 68	- 14,5022	0	294.24 6,83	22,4938	0,2848 55	-49,7314	0	2,8090 4	1,3940 8
9	190,1 88	-14,165	0	293.69 0,49	23,1504	0,3018 26	-49,6453	0	2,8101 2	1,3939 1
9	190,3 32	- 13,7603	0	293.02 4,83	23,9124	0,3221 75	-49,5433	0	2,8114 2	1,3937 1
9	190,5 04	- 13,2744	0	292.39 1,66	24,7938	0,3463 03	-49,4808	0	2,8127 5	1,3937 4
9	190,7 12	-12,691	0	291.99 2,34	25,8087	0,3745 36	-49,5366	0	2,8138 8	1,3943 5
9	190,9	-	0	292.09	26,9724	0,4070	-49,8134	0	2,8144	1,3960

	61	11,9908		4,44		42			8	2
9	191,2 59	- 11,1503	0	292.82 2,85	28,2999	0,4441 27	-50,3617	0	2,8145 2	1,3989 9
9	191,6 18	- 10,1418	0	294.17 1,77	29,8055	0,4862 11	-51,1914	0	2,8142	1,4033 5
9	192,0 48	- 8,93178	0	296.06 7,04	31,5048	0,5337 34	-52,2918	0	2,8138 6	1,4091 2
9	192,5 63	- 7,47992	0	298.44 5,44	33,4076	0,5871 79	-53,6507	0	2,8137 3	1,4162 9
9	193,1 83	- 5,73755	0	301.13 7,09	35,5333	0,6475 72	-55,0099	0	2,8142 8	1,4233 5
9	193,9 26	- 3,64571	0	303.81 7,76	37,8862	0,7165 02	-56,1227	0	2,8161 8	1,4288 6
9	194,8 17	- 1,13288	0	306.09 1,64	40,4616	0,7959 4	-56,795	0	2,8202 2	1,4317 8
9	195,2 19	6,16491 E-12	0	306.73 3,48	41,583	0,8302 25	-56,8723	0	2,8226 9	1,4318 6
9	195,2 19	6,16491 E-12	0	311.40 9,75	41,1336	0,8239 22	-57,6528	0	2,8530 8	1,4338 8
9	195,8 87	1,90658	0	311.51 1,34	43,0329	0,8796 05	-57,4405	0	2,8522 9	1,4323 9
9	197,1 71	5,57566	0	307.11 5,80	46,7912	0,9744 85	-55,4601	0	2,8643 3	1,4222 6
9	198,7 12	10,0094	0	296.28 0,59	51,3932	1,0814 2	-50,7009	0	2,8911 9	1,3988 4
9	200,5 61	15,3939	0	276.41 6,63	56,885	1,2153 1	-41,791	0	2,9342 9	1,3573 5
9	202,2 23	20,3121	0	250.08 1,72	61,5779	1,3566 6	-29,8014	0	2,9851 6	1,3060 1
9	202,2 23	20,3121	0	250.08 1,72	61,5779	1,3566 6	-29,8014	0	2,9851 6	1,3060 1
9	202,7 79	21,9809	0	237.98 2,90	63,0156	1,4143 4	-24,3617	0	3,0071 4	1,2843 8
9	205,4 42	30,1426	0	184.32 5,61	68,824	1,7250 4	-5,6477	0	3,1409 8	1,2218 3
9	208,6 36	40,4864	0	135.86 4,65	74,1175	2,1416 9	5,17159	0	3,3263 4	1,1963 5
9	210,1	45,712	0	119.04	76,2952	2,3486	8,18184	0	3,4005	1,1908



	9			8,25		7			8	2
9	210,1 9	45,712	0	119.04 8,25	76,2952	2,3487 7	8,18184	0	3,4004 3	1,1908 2
9	212,4 7	53,5809	0	99.286, 95	79,041	2,6748 3	11,3106	0	3,5014 8	1,1861 4
9	217,0 71	70,1487	0	69.782, 92	83,1728	3,4728	15,2031	0	3,7008 2	1,1823 2
9	222,5 91	91,2457	0	46.552, 18	86,2882	4,7483 2	17,7468	0	3,9437 6	1,1814 6
9	229,2 16	118,226	0	31.814, 28	88,8344	6,3840 4	19,1878	0	4,1840 6	1,1816 1
9	235,8 74	146,723	0	23.759, 00	91,4883	7,9494 7	20,0479	0	4,3704 2	1,1814 4
9	237,1 66	152,396	0	22.613, 67	92,0125	8,2585 5	20,3503	0	4,4035 7	1,1807 9
9	246,7 05	195,492	0	16.241, 76	95,9574	10,536 5	21,9148	0	4,6208 1	1,1776
9	253,5 76	227,702	0	13.251, 87	98,8673	12,171 8	22,5958	0	4,7542 3	1,1763 2
10	188,0 69	- 20,1034	0	0,99	0,00177 245	0,1512 76	24,6246	0	3,1802 3	1,1739
10	188,1 69	- 19,8233	0	300.18 1,50	5,0581	0,0144 314	-50,958	0	2,7922 7	1,3966 9
10	188,2 69	- 19,5441	0	300.28 4,15	7,14687	0,0287 444	-50,9592	0	2,7931 9	1,3966 3
10	188,3 69	- 19,2647	0	299.99 9,75	8,7483	0,0430 634	-50,9083	0	2,7940 1	1,3965
10	188,4 69	- 18,9853	0	299.61 9,18	10,1008	0,0573 522	-50,8455	0	2,7948 8	1,3963 5
10	188,5 69	- 18,7057	0	299.19 8,68	11,2911	0,0716 359	-50,7778	0	2,7957 8	1,3962 1
10	188,6 69	- 18,4261	0	298.76 9,08	12,3648	0,0859 242	-50,7096	0	2,7966 6	1,3960 6
10	188,7 69	- 18,1464	0	298.33 7,65	13,3518	0,1002 01	-50,6416	0	2,7975 3	1,3959 2
10	188,8 69	- 17,8666	0	297.90 2,31	14,271	0,1144 57	-50,5734	0	2,7984	1,3957 8

10	188,9 69	- 17,5867	0	297.46 1,87	15,1343	0,1286 98	-50,5044	0	2,7992 8	1,3956 4
10	189,0 69	- 17,3068	0	297.01 7,18	15,9494	0,1429 37	-50,4349	0	2,8001 6	1,3955
10	189,1 69	- 17,0267	0	296.57 0,47	16,7233	0,1571 75	-50,3651	0	2,8010 5	1,3953 6
10	189,2 69	- 16,7465	0	296.12 3,14	17,4617	0,1714 08	-50,2954	0	2,8019 3	1,3952 2
10	189,3 69	- 16,4663	0	295.67 5,42	18,1694	0,1856 31	-50,2256	0	2,8028 1	1,3950 8
10	189,4 69	-16,186	0	295.22 6,80	18,8499	0,1998 41	-50,1558	0	2,8036 9	1,3949 4
10	189,5 69	- 15,9056	0	294.77 6,51	19,5062	0,2140 38	-50,0857	0	2,8045 8	1,3947 9
10	189,6 69	- 15,6251	0	294.32 4,54	20,1407	0,2282 2	-50,0154	0	2,8054 6	1,3946 5
10	189,7 69	- 15,3445	0	293.87 1,06	20,7554	0,2423 89	-49,9448	0	2,8063 5	1,3945 1
10	189,8 69	- 15,0638	0	293.41 5,82	21,3514	0,2565 53	-49,874	0	2,8072 4	1,3943 7
10	189,9 69	-14,783	0	292.95 8,65	21,9307	0,2707 04	-49,8028	0	2,8081 4	1,3942 3
10	190,0 69	- 14,5022	0	292.49 9,59	22,4938	0,2848 55	-49,7314	0	2,8090 4	1,3940 8
10	190,1 89	-14,165	0	291.94 6,55	23,1504	0,3018 26	-49,6453	0	2,8101 2	1,3939 1
10	190,3 33	- 13,7603	0	291.28 4,84	23,9124	0,3221 75	-49,5433	0	2,8114 2	1,3937 1
10	190,5 05	- 13,2744	0	290.65 5,43	24,7938	0,3463 03	-49,4808	0	2,8127 5	1,3937 4
10	190,7 13	-12,691	0	290.25 8,48	25,8087	0,3745 36	-49,5366	0	2,8138 8	1,3943 5
10	190,9 62	- 11,9908	0	290.35 9,98	26,9724	0,4070 42	-49,8134	0	2,8144 8	1,3960 2
10	191,2 6	- 11,1503	0	291.08 4,06	28,2999	0,4441 27	-50,3617	0	2,8145 2	1,3989 9
10	191,6 19	- 10,1418	0	292.42 4,97	29,8055	0,4862 11	-51,1914	0	2,8142	1,4033 5

10	192,049	-8,93178	0	294.308,99	31,5048	0,533734	-52,2918	0	2,81386	1,40912
10	192,564	-7,47992	0	296.673,26	33,4076	0,587179	-53,6507	0	2,81373	1,41629
10	193,184	-5,73755	0	299.348,93	35,5333	0,647572	-55,0099	0	2,81428	1,42335
10	193,927	-3,64571	0	302.013,68	37,8862	0,716502	-56,1227	0	2,81618	1,42886
10	194,818	-1,13288	0	304.274,06	40,4616	0,79594	-56,795	0	2,82022	1,43178
10	195,22	6,16491E-12	0	304.912,08	41,583	0,830225	-56,8723	0	2,82269	1,43186
10	195,22	6,16491E-12	0	309.560,59	41,1336	0,823922	-57,6528	0	2,85308	1,43388
10	195,888	1,90658	0	309.661,58	43,0329	0,879605	-57,4405	0	2,85229	1,43239
10	197,172	5,57566	0	305.292,14	46,7912	0,974485	-55,4601	0	2,86433	1,42226
10	198,713	10,0094	0	294.521,26	51,3932	1,08142	-50,7009	0	2,89119	1,39884
10	200,562	15,3939	0	274.775,26	56,885	1,21531	-41,791	0	2,93429	1,35735
10	202,224	20,3121	0	248.596,73	61,5779	1,35666	-29,8014	0	2,98516	1,30601
10	202,224	20,3121	0	248.596,73	61,5779	1,35666	-29,8014	0	2,98516	1,30601
10	202,78	21,9809	0	236.679,15	63,0156	1,41434	-24,3617	0	3,00714	1,28438
10	205,443	30,1426	0	183.607,59	68,824	1,72504	-5,6477	0	3,14098	1,22183
10	208,637	40,4864	0	135.364,95	74,1175	2,14169	5,17159	0	3,32634	1,19635
10	210,191	45,712	0	118.946,64	76,2952	2,34867	8,18184	0	3,40058	1,19082
10	210,191	45,712	0	118.946,64	76,2952	2,34877	8,18184	0	3,40043	1,19082
10	212,471	53,5809	0	98.818,34	79,041	2,67483	11,3106	0	3,50148	1,18614

10	217,0 72	70,1487	0	69.223, 75	83,1728	3,4728	15,2031	0	3,7008 2	1,1823 2
10	222,5 92	91,2457	0	45.776, 57	86,2882	4,7483 2	17,7468	0	3,9437 6	1,1814 6
10	229,2 17	118,226	0	30.889, 77	88,8344	6,3840 4	19,1878	0	4,1840 6	1,1816 1
10	235,8 75	146,723	0	22.934, 74	91,4883	7,9494 7	20,0479	0	4,3704 2	1,1814 4
10	237,1 67	152,396	0	21.724, 99	92,0125	8,2585 5	20,3503	0	4,4035 7	1,1807 9
10	246,7 06	195,492	0	15.430, 19	95,9574	10,536 5	21,9148	0	4,6208 1	1,1776
10	253,5 77	227,702	0	12.627, 34	98,8673	12,171 8	22,5958	0	4,7542 3	1,1763 2
11	192,9 23	-20,241	0	1,00	0,00177 245	0,1512 76	24,6246	0	3,1802 3	1,1739
11	193,0 23	- 19,9602	0	297.20 0,54	5,07652	0,0143 779	-50,2737	0	2,8002 1	1,3955 4
11	193,1 23	- 19,6801	0	297.23 6,99	7,17519	0,0286 262	-50,2661	0	2,8012 2	1,3954 7
11	193,2 23	- 19,3999	0	296.86 5,00	8,78403	0,0428 77	-50,2022	0	2,8022	1,3953 1
11	193,3 23	- 19,1197	0	296.40 8,04	10,1399	0,0571 173	-50,1282	0	2,8032	1,3951 5
11	193,4 23	- 18,8393	0	295.93 0,24	11,3322	0,0713 575	-50,0525	0	2,8041 9	1,3949 9
11	193,5 23	- 18,5588	0	295.44 3,04	12,4105	0,0855 764	-49,9761	0	2,8051 6	1,3948 3
11	193,6 23	- 18,2783	0	294.94 8,04	13,4018	0,0997 813	-49,8988	0	2,8061 4	1,3946 7
11	193,7 23	- 17,9976	0	294.44 7,26	14,3227	0,1139 85	-49,8209	0	2,8071 3	1,3945 1
11	193,8 23	- 17,7168	0	293.94 4,59	15,1863	0,1281 83	-49,7428	0	2,8081 1	1,3943 5
11	193,9 23	-17,436	0	293.44 0,32	16,0026	0,1423 67	-49,6647	0	2,8090 9	1,3942
11	194,0	-17,155	0	292.93	16,7789	0,1565	-49,5862	0	2,8100	1,3940

	23			3,53		34			8	4
11	194,1 23	-16,874	0	292.42 5,20	17,5205	0,1706 83	-49,5075	0	2,8110 7	1,3938 8
11	194,2 23	- 16,5928	0	291.91 5,09	18,231	0,1848 24	-49,4286	0	2,8120 5	1,3937 2
11	194,3 23	- 16,3116	0	291.40 2,72	18,9139	0,1989 56	-49,3494	0	2,8130 5	1,3935 7
11	194,4 23	- 16,0302	0	290.88 8,55	19,5716	0,2130 83	-49,2699	0	2,8140 4	1,3934 1
11	194,5 23	- 15,7487	0	290.37 3,03	20,2067	0,2272 05	-49,1902	0	2,8150 4	1,3932 5
11	194,6 23	- 15,4672	0	289.85 6,28	20,8215	0,2413 17	-49,1103	0	2,8160 3	1,3930 9
11	194,7 23	- 15,1855	0	289.33 8,50	21,4177	0,2554 21	-49,0303	0	2,8170 3	1,3929 3
11	194,8 23	- 14,9038	0	288.81 9,23	21,9971	0,2695 12	-48,9501	0	2,8180 3	1,3927 7
11	194,9 23	- 14,6219	0	288.29 8,37	22,5609	0,2835 9	-48,8697	0	2,8190 3	1,3926 1
11	195,0 43	- 14,2836	0	287.67 0,99	23,2186	0,3004 65	-48,7727	0	2,8202 4	1,3924 2
11	195,1 87	- 13,8774	0	286.97 2,70	23,9831	0,3206	-48,6767	0	2,8216 1	1,3922 8
11	195,3 59	- 13,3897	0	286.23 5,70	24,8672	0,3445 54	-48,5989	0	2,8231 3	1,3922 8
11	195,5 67	- 12,8042	0	285.62 7,14	25,8854	0,3727 08	-48,6068	0	2,8246	1,3927 3
11	195,8 16	- 12,1011	0	285.38 1,85	27,0489	0,4052 09	-48,806	0	2,8258 2	1,3941 3
11	196,1 14	- 11,2567	0	285.08 4,54	28,3495	0,4423 29	-49,1632	0	2,8280 5	1,3965 6
11	196,4 73	- 10,2424	0	284.62 7,87	29,8094	0,4840 68	-49,6826	0	2,8317 6	1,4001 3
11	196,9 02	- 9,02367	0	284.04 5,11	31,4594	0,5307 75	-50,3675	0	2,8367 3	1,4048 4
11	197,4 18	- 7,55845	0	283.40 9,25	33,3181	0,5829 21	-51,2379	0	2,8426 8	1,4108 1
11	198,0	-5,7961	0	282.67	35,396	0,6413	-52,1485	0	2,8496	1,4171

	38			7,83		94			8	4
11	198,781	-3,67561	0	281.592,91	37,7104	0,707709	-52,7763	0	2,85822	1,42192
11	199,672	-1,12252	0	279.746,95	40,264	0,783845	-52,8825	0	2,86897	1,42385
11	200,742	1,95443	0	276.504,93	43,1926	0,869855	-52,1814	0	2,88292	1,42147
11	202,026	5,66785	0	270.673,36	46,8569	0,963782	-50,024	0	2,902	1,41151
11	203,567	10,1592	0	260.288,28	51,3767	1,07245	-45,4029	0	2,929	1,38946
11	205,416	15,6093	0	242.154,20	56,7758	1,21077	-36,7749	0	2,96792	1,34981
11	206,99	20,3121	0	219.722,70	61,1505	1,34858	-25,9683	0	3,01012	1,30374
11	206,99	20,3121	0	219.722,70	61,1505	1,34858	-25,9683	0	3,01012	1,30374
11	207,634	22,2615	0	207.212,36	62,7985	1,41648	-20,0661	0	3,03238	1,28031
11	210,297	30,4713	0	160.408,29	68,6298	1,72286	-3,29863	0	3,15421	1,22382
11	213,491	40,8416	0	118.117,37	74,154	2,1314	6,46494	0	3,33122	1,19968
11	216,469	50,963	0	92.385,47	78,521	2,52226	11,101	0	3,46194	1,19082
11	216,469	50,963	0	92.385,47	78,521	2,52226	11,101	0	3,46194	1,19082
11	217,325	53,9401	0	86.465,67	79,6725	2,63714	12,0311	0	3,4959	1,18932
11	221,926	70,4402	0	61.378,00	84,7817	3,35208	15,5499	0	3,67722	1,18482
11	227,446	91,3485	0	41.292,98	89,0055	4,47416	17,8978	0	3,89904	1,18314
11	234,071	118,026	0	27.517,12	91,8394	6,05755	19,3187	0	4,14213	1,18276
11	237,686	133,199	0	23.065,85	93,2568	6,89826	19,7586	0	4,2502	1,18273
11	242,0	151,901	0	19.084,	94,9902	7,9214	20,6125	0	4,3681	1,1810

	21			51		7			6	9
11	251,5 6	194,666	0	13.637, 07	98,9063	10,181 5	22,1207	0	4,5901 2	1,1778
11	254,1 75	206,739	0	12.578, 42	100,001	10,800 8	22,3971	0	4,6438 9	1,1772 3
12	198,3 42	- 20,3121	0	1,00	0,00177 245	0,1512 76	24,6246	0	3,1802 3	1,1739
12	198,4 42	-20,025	0	256.71 1,84	5,11739	0,0139 34	-44,504	0	2,8644 6	1,3862 8
12	198,5 42	- 19,7385	0	256.42 2,35	7,23146	0,0277 473	-44,4558	0	2,8658 7	1,3861 8
12	198,6 42	- 19,4518	0	255.74 9,47	8,84932	0,0415 66	-44,3485	0	2,8673 1	1,3859 6
12	198,7 42	-19,165	0	255.01 2,83	10,2131	0,0553 615	-44,2332	0	2,8687 3	1,3857 3
12	198,8 42	- 18,8781	0	254.24 8,32	11,4112	0,0691 551	-44,1146	0	2,8701 7	1,3855
12	198,9 42	-18,591	0	253.47 8,72	12,4918	0,0829 402	-43,9958	0	2,8715 8	1,3852 8
12	199,0 42	- 18,3038	0	252.70 7,30	13,4849	0,0967 028	-43,8771	0	2,8729 8	1,3850 5
12	199,1 42	- 18,0164	0	251.94 1,54	14,4082	0,1104 49	-43,7595	0	2,8743 7	1,3848 3
12	199,2 42	- 17,7289	0	251.18 0,30	15,2734	0,1241 89	-43,6429	0	2,8757 4	1,3846 2
12	199,3 42	- 17,4413	0	250.42 3,29	16,0897	0,1379 24	-43,527	0	2,8770 9	1,3844
12	199,4 42	- 17,1535	0	249.66 9,26	16,8645	0,1516 49	-43,4117	0	2,8784 4	1,3841 9
12	199,5 42	- 16,8656	0	248.91 7,08	17,6036	0,1653 62	-43,2966	0	2,8797 8	1,3839 8
12	199,6 42	- 16,5775	0	248.16 7,05	18,3103	0,1790 75	-43,182	0	2,8811 2	1,3837 6
12	199,7 42	- 16,2894	0	247.41 8,97	18,9886	0,1927 83	-43,0677	0	2,8824 5	1,3835 5
12	199,8 42	-16,001	0	246.67 5,94	19,6419	0,2064 82	-42,9542	0	2,8837 7	1,3833 5

12	199,9 42	- 15,7126	0	245.93 6,77	20,2737	0,2201 54	-42,8414	0	2,8850 8	1,3831 4
12	200,0 42	-15,424	0	245.20 0,65	20,8846	0,2338 2	-42,729	0	2,8863 8	1,3829 3
12	200,1 42	- 15,1353	0	244.46 6,96	21,4777	0,2474 6	-42,6171	0	2,8876 8	1,3827 3
12	200,2 42	- 14,8465	0	243.73 4,95	22,0532	0,2610 95	-42,5055	0	2,8889 7	1,3825 3
12	200,3 42	- 14,5575	0	243.00 3,89	22,6133	0,2747 09	-42,394	0	2,8902 6	1,3823 2
12	200,4 62	- 14,2106	0	242.12 7,58	23,2656	0,2910 37	-42,2604	0	2,8918	1,3820 8
12	200,6 06	- 13,7941	0	241.08 3,46	24,0225	0,3105 99	-42,1026	0	2,8936 4	1,3818
12	200,7 79	- 13,2939	0	239.87 2,86	24,896	0,3340 05	-41,9285	0	2,8957 9	1,3815 3
12	200,9 87	- 12,6931	0	238.50 4,71	25,8996	0,3619 06	-41,7513	0	2,8982 4	1,3813 4
12	201,2 35	- 11,9717	0	237.28 5,01	27,0475	0,3943 69	-41,7091	0	2,9006 9	1,3818 6
12	201,5 34	- 11,1053	0	236.35 7,56	28,3557	0,4316 23	-41,877	0	2,9029 9	1,3834 6
12	201,8 92	- 10,0647	0	235.81 3,26	29,8385	0,4739 22	-42,3106	0	2,9051 6	1,3864 3
12	202,3 22	- 8,81496	0	235.65 8,60	31,5102	0,5215 94	-43,0323	0	2,9073 2	1,3909
12	202,8 38	- 7,31415	0	235.84 5,03	33,3827	0,5748 81	-44,0511	0	2,9097 6	1,3969 9
12	203,4 58	- 5,51153	0	236.20 4,39	35,4669	0,6346 2	-45,1928	0	2,9128 6	1,4037 9
12	204,2 01	- 3,34569	0	236.47 9,50	37,7671	0,7023 65	-46,1397	0	2,9171 3	1,4094 9
12	205,0 92	- 0,74207 7	0	236.24 2,96	40,2817	0,7801 43	-46,6269	0	2,9232 9	1,4126 9
12	206,1 62	2,39037	0	234.82 0,32	43,1783	0,8676 5	-46,2885	0	2,9324 2	1,4115
12	207,4	6,16398	0	231.03	46,7726	0,9638	-44,4848	0	2,9463	1,4027



	46			6,86		49			4	6
12	208,9 87	10,7192	0	222.99 4,93	51,2188	1,0750 1	-40,1968	0	2,9677 1	1,3819 2
12	210,8 36	16,2353	0	207.47 7,35	56,5382	1,2168 7	-31,8054	0	3,0006 2	1,3430 9
12	212,1 87	20,3121	0	190.23 1,95	60,2583	1,3372 6	-22,6881	0	3,0328 2	1,3039
12	212,1 87	20,3121	0	190.23 1,95	60,2583	1,3372 6	-22,6881	0	3,0328 2	1,3039
12	213,0 54	22,9547	0	175.32 8,15	62,4441	1,4301 2	-15,3807	0	3,0583 2	1,2748 6
12	215,7 16	31,2202	0	135.32 4,20	68,2538	1,7315 8	-0,85007	0	3,1724 8	1,2255 5
12	218,9 11	41,6296	0	99.681, 82	73,9861	2,1315	7,7946	0	3,3392 9	1,2029
12	222,7 45	54,7433	0	72.940, 13	79,9468	2,6247 1	12,8245	0	3,4968 6	1,1923 8
12	223,7 89	58,4132	0	67.584, 56	81,4794	2,7580 6	13,7012	0	3,5340 5	1,1908 2
12	223,7 89	58,4132	0	67.584, 56	81,4794	2,7580 7	13,7012	0	3,5340 5	1,1908 2
12	227,3 46	71,2022	0	52.762, 99	86,1549	3,2549 3	15,9384	0	3,6581	1,1873 4
12	232,8 66	91,9419	0	36.409, 07	91,7326	4,2243 8	18,0723	0	3,8564 1	1,1849 1
12	239,4 91	118,25	0	24.747, 36	95,7973	5,6151 8	19,4163	0	4,0813 5	1,1839 2
12	240,3 76	121,874	0	23.620, 06	96,1581	5,8154 2	19,5384	0	4,1098 1	1,1838 6
12	247,4 41	151,712	0	17.120, 13	98,9305	7,4585 3	20,8376	0	4,3172 1	1,1814 5
12	255,9 13	189,181	0	12.527, 90	102,365	9,445	22,1929	0	4,5231	1,1782 7
13	234,2 75	- 20,3121	0	1,00	0,00177 245	0,1512 76	24,6246	0	3,1802 3	1,1739
13	234,3 75	- 20,0089	0	136.72 4,55	5,26306	0,0128 279	-27,8023	0	3,0290 7	1,3637 5

13	234,4 75	- 19,7059	0	136.65 5,19	7,43274	0,0256 042	-27,822	0	3,0295 5	1,3639
13	234,5 75	-19,403	0	136.37 3,60	9,09789	0,0383 688	-27,7853	0	3,0300 8	1,3638 7
13	234,6 75	- 19,0999	0	136.05 8,08	10,497	0,0511 299	-27,7405	0	3,0305 9	1,3638 1
13	234,7 75	- 18,7968	0	135.73 8,60	11,7227	0,0639 258	-27,6944	0	3,0310 8	1,3637 4
13	234,8 75	- 18,4937	0	135.42 2,04	12,8257	0,0767 521	-27,6486	0	3,0315 6	1,3636 8
13	234,9 75	- 18,1905	0	135.10 6,43	13,839	0,0895 675	-27,6028	0	3,0320 3	1,3636 1
13	235,0 75	- 17,8873	0	134.78 7,27	14,7829	0,1023 57	-27,5563	0	3,0325 1	1,3635 4
13	235,1 75	-17,584	0	134.46 5,93	15,6666	0,1151 54	-27,5095	0	3,033 7	1,3634
13	235,2 75	- 17,2807	0	134.14 5,13	16,4997	0,1279 57	-27,4627	0	3,0334 8	1,3634 1
13	235,3 75	- 16,9773	0	133.82 4,85	17,2894	0,1407 61	-27,4161	0	3,0339 5	1,3633 4
13	235,4 75	- 16,6739	0	133.50 5,32	18,0414	0,1535 71	-27,3696	0	3,0344 3	1,3632 7
13	235,5 75	- 16,3705	0	133.18 5,10	18,7611	0,1663 76	-27,323	0	3,0349	1,3632
13	235,6 75	- 16,0669	0	132.86 3,06	19,4528	0,1791 66	-27,2761	0	3,0353 8	1,3631 3
13	235,7 75	- 15,7634	0	132.54 0,15	20,1185	0,1919 55	-27,2291	0	3,0358 6	1,3630 7
13	235,8 75	- 15,4598	0	132.21 8,54	20,7589	0,2047 76	-27,1823	0	3,0363 4	1,363
13	235,9 75	- 15,1561	0	131.89 5,19	21,3787	0,2175 81	-27,1353	0	3,0368 2	1,3629 3
13	236,0 75	- 14,8524	0	131.57 3,23	21,9771	0,2304 18	-27,0884	0	3,0373	1,3628 6
13	236,1 75	- 14,5487	0	131.25 0,41	22,5578	0,2432 51	-27,0414	0	3,0377 7	1,3628
13	236,2 75	- 14,2448	0	130.92 8,66	23,1205	0,2561 11	-26,9946	0	3,0382 5	1,3627 3

13	236,3 95	- 13,8802	0	130.54 2,28	23,7752	0,2715 52	-26,9385	0	3,0388 2	1,3626 5
13	236,5 39	- 13,4426	0	130.07 9,05	24,5334	0,2901 02	-26,8711	0	3,0395 1	1,3625 5
13	236,7 12	- 12,9173	0	129.52 2,73	25,4071	0,3123 89	-26,7902	0	3,0403 4	1,3624 3
13	236,9 19	- 12,2867	0	128.85 3,27	26,4104	0,3391 33	-26,6929	0	3,0413 3	1,3622 9
13	237,1 68	- 11,5298	0	128.04 5,33	27,5572	0,3712 22	-26,5754	0	3,0425 3	1,3621 2
13	237,4 67	- 10,6211	0	127.18 4,68	28,8618	0,4092 18	-26,5061	0	3,0438 5	1,3622 6
13	237,8 25	- 9,53028	0	126.52 2,32	30,3318	0,4529 94	-26,6614	0	3,0450 7	1,3635 2
13	238,2 55	- 8,22076	0	126.21 1,53	31,9801	0,5022 15	-27,1648	0	3,0461 1	1,3665 3
13	238,7 71	- 6,64882	0	126.22 1,49	33,8117	0,5573 51	-28,029	0	3,0470 9	1,3713 8
13	239,3 9	- 4,76178	0	126.43 8,39	35,8323	0,6194 23	-29,0434	0	3,0482 6	1,377
13	240,1 33	- 2,49626	0	126.72 3,91	38,0368	0,6899 42	-29,9677	0	3,0498 8	1,3821
13	241,0 25	0,22413 3	0	126.85 1,08	40,4161	0,7708 49	-30,5923	0	3,0523 4	1,3856
13	242,0 95	3,492	0	126.37 2,95	43,134	0,8619 83	-30,5529	0	3,0562 8	1,3856 7
13	243,3 79	7,42009	0	124.48 6,46	46,5555	0,9618 38	-29,1494	0	3,0628 5	1,3787 9
13	244,9 19	12,147	0	119.89 2,14	50,844	1,0777	-25,38	0	3,0737 3	1,3603 7
13	246,7 68	17,846	0	110.30 0,64	55,9017	1,2293 6	-17,8338	0	3,0917 4	1,3251 6
13	247,5 64	20,3121	0	104.08 8,88	58,0188	1,3032	-13,2645	0	3,1023 6	1,3048 5
13	247,5 64	20,3121	0	104.08 8,88	58,0188	1,3032	-13,2645	0	3,1023 6	1,3048 5
13	248,9 87	24,7402	0	90.422, 78	61,5739	1,4529 9	-4,5605	0	3,1236 3	1,2683 8

13	251,6 49	33,1516	0	69.687, 19	67,5189	1,7360 7	4,87261	0	3,2109 1	1,2329 5
13	254,8 44	43,6331	0	51.822, 38	73,8249	2,0978 5	10,9836	0	3,3482 8	1,2123 7
13	258,6 78	56,7529	0	37.726, 38	80,7353	2,5654 9	14,8003	0	3,4920 8	1,2007 3
13	263,2 78	73,1578	0	27.392, 72	88,5975	3,1229 3	17,1791	0	3,6343	1,1940 7
13	265,5 08	81,3276	0	23.906, 28	92,3322	3,3871 4	17,912	0	3,6944 4	1,1921 3
13	267,4 59	88,5986	0	21.379, 28	95,5845	3,6179 7	18,4215	0	3,7432 3	1,1908 2
13	267,4 59	88,5986	0	21.379, 28	95,5845	3,6179 2	18,4215	0	3,7432 8	1,1908 2
13	268,7 99	93,6434	0	19.845, 99	97,7501	3,7815 7	18,7207	0	3,7763 7	1,1900 7
13	275,4 23	119,224	0	14.088, 89	107,107	4,6759 6	19,7788	0	3,9388 2	1,1875 6
13	277,2 09	126,298	0	12.926, 38	109,25	4,9434	19,9791	0	3,9823 6	1,1871 1
14	433,1 95	- 20,3121	0	1,00	0,00177 245	0,1512 74	24,6192	0	3,1802 3	1,1739 2
14	433,2 95	- 19,9952	0	11.331, 30	5,3736	0,0118 472	-12,6672	0	3,1689 4	1,3547 5
14	433,3 95	- 19,6783	0	11.298, 59	7,59304	0,0236 92	-12,7282	0	3,1689 8	1,3550 9
14	433,4 95	- 19,3614	0	11.268, 71	9,28895	0,0355 544	-12,739	0	3,1690 2	1,3551 7
14	433,5 95	- 19,0445	0	11.239, 87	10,7142	0,0474 234	-12,7411	0	3,1690 6	1,3551 9
14	433,6 95	- 18,7275	0	11.211, 27	11,9652	0,0593 057	-12,7405	0	3,1690 9	1,3552 1
14	433,7 95	- 18,4106	0	11.182, 94	13,0906	0,0712 075	-12,7388	0	3,1691 3	1,3552 2
14	433,8 95	- 18,0937	0	11.154, 71	14,1228	0,0831 126	-12,7365	0	3,1691 6	1,3552 2
14	433,9	-	0	11.126,	15,0808	0,0950	-12,7339	0	3,1692	1,3552

	95	17,7768		51		238				2
14	434,0 95	- 17,4599	0	11.098, 23	15,9769	0,1069 49	-12,7311	0	3,1692 3	1,3552 2
14	434,1 95	-17,143	0	11.069, 92	16,8206	0,1188 91	-12,7282	0	3,1692 7	1,3552 2
14	434,2 95	-16,826	0	11.041, 62	17,6194	0,1308 51	-12,7252	0	3,1693	1,3552 2
14	434,3 95	- 16,5091	0	11.013, 34	18,3798	0,1428 21	-12,7221	0	3,1693 4	1,3552 2
14	434,4 95	- 16,1922	0	10.985, 00	19,1067	0,1547 99	-12,719	0	3,1693 7	1,3552 2
14	434,5 95	- 15,8752	0	10.956, 60	19,804	0,1667 82	-12,7158	0	3,1694 1	1,3552 2
14	434,6 95	- 15,5583	0	10.928, 16	20,4747	0,1787 72	-12,7126	0	3,1694 4	1,3552 2
14	434,7 95	- 15,2413	0	10.899, 66	21,1206	0,1907 79	-12,7094	0	3,1694 8	1,3552 2
14	434,8 95	- 14,9244	0	10.871, 09	21,7445	0,2027 93	-12,7061	0	3,1695 1	1,3552 2
14	434,9 95	- 14,6074	0	10.842, 44	22,347	0,2148 3	-12,7028	0	3,1695 5	1,3552 2
14	435,0 95	- 14,2905	0	10.813, 73	22,9309	0,2268 77	-12,6996	0	3,1695 8	1,3552 2
14	435,1 95	- 13,9735	0	10.784, 97	23,4967	0,2389 43	-12,6963	0	3,1696 2	1,3552 1
14	435,3 15	- 13,5932	0	10.750, 39	24,1542	0,2534 42	-12,6923	0	3,1696 6	1,3552 1
14	435,4 59	- 13,1367	0	10.708, 80	24,9149	0,2708 65	-12,6875	0	3,1697 2	1,3552 1
14	435,6 32	-12,589	0	10.658, 73	25,7909	0,2918 03	-12,6817	0	3,1697 8	1,3552 1
14	435,8 39	- 11,9317	0	10.598, 36	26,7946	0,3169 7	-12,6747	0	3,1698 5	1,3552 1
14	436,0 88	- 11,1429	0	10.525, 49	27,9385	0,3472 26	-12,6662	0	3,1699 4	1,3552
14	436,3 87	- 10,1964	0	10.438, 27	29,2326	0,3836 1	-12,6601	0	3,1700 5	1,3552 2
14	436,7	-	0	10.348,	30,6867	0,4266	-12,7384	0	3,1701	1,3556

	45	9,06046		53		25			7	9
14	437,1 75	- 7,69732	0	10.274, 73	32,3065	0,4762 63	-13,0278	0	3,1702 9	1,3572 8
14	437,6 91	- 6,06149	0	10.235, 17	34,0972	0,5319 44	-13,6703	0	3,1703 9	1,3607 6
14	438,3 1	- 4,09843	0	10.226, 72	36,0616	0,5940 38	-14,588	0	3,1704 8	1,3657 2
14	439,0 53	- 1,74269	0	10.228, 34	38,1933	0,6644 81	-15,4593	0	3,1706 2	1,3704 5
14	439,9 45	1,08435	0	10.215, 53	40,469	0,7456 31	-16,0593	0	3,1708 2	1,3737 3
14	441,0 15	4,47707	0	10.149, 58	43,0798	0,8367 45	-16,1215	0	3,1711 3	1,3741
14	442,2 98	8,54888	0	9.953,5 3	46,3832	0,9372 9	-15,0445	0	3,1716 6	1,3683 5
14	443,8 39	13,4361	0	9.514,8 9	50,4611	1,0561 4	-12,0545	0	3,1725 2	1,3525 1
14	445,6 88	19,3029	0	8.580,9 3	55,4237	1,2108 4	-5,88909	0	3,1740 4	1,3205 8
14	446,0 06	20,3121	0	8.327,5 6	56,2622	1,2414 7	-4,32249	0	3,1744 3	1,3126
14	446,0 06	20,3121	0	8.327,5 6	56,2622	1,2414 7	-4,32249	0	3,1744 3	1,3126
14	446,0 06	20,3123	0	8.327,5 0	56,2624	1,2414 7	-4,32214	0	3,1744 3	1,3126
14	447,9 07	26,3478	0	6.831,9 1	61,0601	1,4367 4	3,38151	0	3,1764 9	1,2740 2
14	449,5 49	31,5729	0	5.804,6 1	64,9536	1,6089 6	7,69431	0	3,1928 3	1,2528 7
14	450,5 69	34,8514	0	5.260,6 7	67,2611	1,7077 8	9,66954	0	3,2307 6	1,2432 4
14	453,7 64	45,3564	0	3.942,2 2	74,1318	2,0314 8	13,7913	0	3,3438 9	1,2231 9
14	457,5 98	58,4171	0	2.894,4 9	81,8569	2,4431	16,5095	0	3,4679 5	1,2099 5
14	462,1 98	74,6816	0	2.098,0 8	90,6923	2,9523 2	18,304	0	3,5997 2	1,2011 9
14	467,7	94,9401	0	1.510,3	100,999	3,5652	19,4938	0	3,7358	1,1953

	19			3					5	8
14	474,3 43	120,159	0	1.083,6 7	113,213	4,2885	20,3861	0	3,8740 1	1,1911 4
14	474,6 12	121,202	0	1.070,3 2	113,701	4,3185	20,4659	0	3,8792 6	1,1908 2
14	474,6 12	121,202	0	1.070,3 2	113,701	4,3184 6	20,4659	0	3,8793 5	1,1908 2
14	475,9 22	126,299	0	1.008,0 0	116,015	4,4693 7	20,8335	0	3,9056 4	1,1893 6

