

Dispersion Report

Workspace: 72438-1RiempFSRU-5R

Study: Riempimento FSRU-ME4

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

72438-1RiempFSRU-5R\Riempimento FSRU-ME4\5R Linee mandata pompe LNG Feed e collettore GNL durante riempimento

Material	GAS NATURALE	
East	0	m
North	0	m

Scenario (Leak) : 70mm

72438-1RiempFSRU-5R\Riempimento FSRU-ME4\5R Linee mandata pompe LNG Feed e collettore GNL durante riempimento\70mm

Material to track	GAS NATURALE
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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

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

1	Continuou s	0	0	kg/s	68,255	68,2008		0,054219 6
2	Continuou s	0,22	-0,372439	kg/s	68,255	68,2008		20,9172
3	Continuou s	48,367 4	-13,8221	kg/s	68,255	68,2008		53,881
4	Continuou s	83,669 8	-16,3067	kg/s	68,255	68,2008		56,0555
5	Continuou s	117,96 4	-18,081	kg/s	68,255	68,2008		57,641
6	Continuou s	151,27 2	-19,457	kg/s	68,255	68,2008		58,7236
7	Continuou s	183,88	-20,5773	kg/s	68,255	68,2008		56,9572
8	Continuou s	208,75 8	-21,3305	kg/s	68,255	68,2008		47,3967
9	Continuou s	208,75 9	-21,3305	kg/s	0	0	47,342 4	47,3424
10	Continuou s	216,02 6	-21,5408	kg/s	0	0		43,7545
11	Continuou s	222,08 7	-21,7162	kg/s	0	0		40,6049
12	Continuou s	247,79 9	-22,3722	kg/s	0	0		27,4115
13	Continuou s	299,38 1	-22,5288	kg/s	0	0		13,7538
14	Continuou s	562,10 8	-22,5288	kg/s	0	0		1,10182

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 heig ht [m]	C/Lin e conc [ppm]	Effecti ve width [m]	Effecti ve depth [m]	C/Line vapour temperature [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	999.20 6,39	0,0595 091	0,0285 531	-160,196	0	15,716 7	2,0328 4
1	0,01	0,11350 3	0	902.92 7,81	0,0676 97	0,0583 94	-141,656	0	8,8255	1,8189 2
1	0,02	0,18980 2	0	851.66 6,84	0,0780 125	0,0766 723	-131,437	0	6,6952 8	1,7276 5
1	0,03	0,25057	0	816.87 4,57	0,0891 838	0,0888 243	-124,332	0	5,5482 2	1,6719 6
1	0,04	0,30215 2	0	791.05 7,32	0,1007 61	0,0973 322	-118,947	0	4,8022 6	1,6331 8
1	0,05	0,34750 6	0	770.84 2,03	0,1125 35	0,1035 83	-114,645	0	4,2662 5	1,6039 9
1	0,06	0,38816 2	0	754.49 6,28	0,1244 04	0,1082 7	-111,094	0	3,8594 1	1,5809 3
1	0,07	0,42515 6	0	740.93 1,38	0,1363 07	0,1118 78	-108,084	0	3,5376 3	1,5620 2
1	0,08	0,45916	0	729.46 6,93	0,1482 06	0,1146 83	-105,483	0	3,2761 5	1,5460 7
1	0,09	0,49075 4	0	719.57 8,09	0,1600 73	0,1169 72	-103,188	0	3,0571 3	1,5322 7
1	0,1	0,52036 5	0	710.89 9,66	0,1718 93	0,1189 45	-101,126	0	2,8690 7	1,5200 6
1	0,11	0,54826 1	0	703.20 1,12	0,1836 61	0,1206 78	-99,2514	0	2,7055	1,5090 9
1	0,12	0,57463 8	0	696.31 9,82	0,1953 72	0,1221 89	-97,5332	0	2,5623 1	1,4991 2
1	0,13	0,59967	0	690.12 5,10	0,2070 24	0,1235 03	-95,945	0	2,4361 3	1,4899 8
1	0,14	0,62350 6	0	684.50 9,20	0,2186 11	0,1246 69	-94,4655	0	2,3238	1,4815
1	0,15	0,64627 2	0	679.38 6,74	0,2301 33	0,1257 17	-93,0779	0	2,2230 3	1,4735 8
1	0,16	0,66806 9	0	674.69 0,69	0,2415 88	0,1266 66	-91,7687	0	2,1320 6	1,4661 3
1	0,17	0,68897 9	0	670.36 8,90	0,2529 74	0,1275 27	-90,528	0	2,0495 7	1,4590 8



1	0,187	0,70908	0	666.372,81	0,264291	0,128312	-89,3509	0	1,97437	1,45242
1	0,195	0,72847	0	662.657,43	0,275539	0,129042	-88,2321	0	1,90534	1,4461
1	0,24	0,74719	0	659.194,12	0,286717	0,129717	-87,1674	0	1,84181	1,44012
1	0,2121	0,76886	0	655.325,75	0,300041	0,130478	-85,9553	0	1,77174	1,43334
1	0,2264	0,79381	0	651.047,47	0,315903	0,13133	-84,5857	0	1,69536	1,42573
1	0,24368	0,82240	0	646.356,22	0,334757	0,132274	-83,046	0	1,61325	1,41723
1	0,264416	0,85493	0	641.079,64	0,357131	0,133393	-81,2872	0	1,52603	1,40765
1	0,289299	0,89175	0	634.781,92	0,383625	0,134919	-79,208	0	1,43409	1,39659
1	0,319159	0,93311	0	627.168,12	0,414925	0,136974	-76,7392	0	1,33891	1,38387
1	0,354991	0,97928	0	618.009,86	0,451794	0,139644	-73,8274	0	1,24237	1,36942
1	0,397989	1,03054	0	607.032,92	0,495057	0,143062	-70,4137	0	1,14622	1,35319
1	0,449587	1,08718	0	593.905,51	0,545557	0,147363	-66,4344	0	1,05253	1,33519
1	0,511504	1,14902	0	578.165,83	0,603847	0,152575	-61,8176	0	0,964675	1,31552
1	0,585805	1,21738	0	559.482,71	0,670877	0,159166	-56,508	0	0,881868	1,29434
1	0,674966	1,29266	0	537.612,09	0,746579	0,167246	-50,5039	0	0,806489	1,2721
1	0,781959	1,37547	0	512.862,30	0,830255	0,176635	-43,9296	0	0,740774	1,2496
1	0,910351	1,46692	0	485.380,53	0,920553	0,187529	-36,9071	0	0,685382	1,22757
1	1,06442	1,56875	0	455.311,91	1,01275	0,200553	-29,6098	0	0,640253	1,20683
1	1,24931	1,68354	0	423.039,09	1,09797	0,217223	-22,3196	0	0,604491	1,1884



1	1,471 17	1,81443	0	389.15 3,54	1,1551 4	0,2415 38	-15,4027	0	0,5773 73	1,1733 6
1	1,536 54	1,85197	0	379.46 1,97	1,163	0,2503 13	-13,6065	0	0,5715 14	1,1699 9
1	1,536 54	1,85197	0	379.46 1,97	1,163	0,2503 13	-13,6065	0	0,5715 14	1,1699 9
1	1,737 4	1,96528	0	348.97 3,38	1,1879 5	0,2787 27	-8,50757	0	0,5573 37	1,1619 9
1	2,056 88	2,14099	0	306.96 2,15	1,2279 4	0,3217 56	-2,5114	0	0,5434 86	1,1555 3
1	2,440 26	2,34746	0	268.24 5,16	1,2713 1	0,3681 3	2,09896	0	0,5345 12	1,1533 7
1	2,900 31	2,59191	0	234.80 8,70	1,3141 5	0,4171 54	5,79348	0	0,5288 03	1,1525 9
1	3,452 37	2,88276	0	207.37 7,47	1,3530 2	0,4668 9	8,55506	0	0,5252 19	1,1529 1
1	4,114 84	3,22989	0	186.37 7,81	1,3853 1	0,5135 69	10,5631	0	0,523	1,1534 8
1	4,909 81	3,64505	0	172.37 7,42	1,4115	0,5493 84	11,9372	0	0,5216 37	1,1535 9
1	5,863 77	4,14221	0	162.97 5,54	1,4384 5	0,5734 46	12,9502	0	0,5207 76	1,1532
1	7,008 53	4,73801	0	152.79 7,88	1,4706 9	0,6013 46	13,974	0	0,5202 15	1,1530 7
1	8,382 23	5,45237	0	141.83 5,64	1,5092 3	0,6342 86	14,9945	0	0,5198 83	1,1532 8
1	10,03 07	6,3092	0	130.21 4,03	1,5553 1	0,6733 71	15,9915	0	0,5197 04	1,1538 4
1	12,00 88	7,33715	0	118.10 8,80	1,6103 7	0,7199 05	16,9453	0	0,5196 18	1,1547 9
1	14,38 26	8,57055	0	105.73 5,68	1,6761 7	0,7754 57	17,8379	0	0,5195 8	1,1561
1	17,23 11	10,0506	0	93.354, 41	1,7547 6	0,8418 02	18,6543	0	0,5195 66	1,1577 4
1	20,64 93	11,8265	0	81.222, 03	1,8485 8	0,9238 9	20,3599	0	0,5195 61	1,1562 7
1	24,75 12	13,9577	0	69.595, 33	1,9605 4	1,0215 5	21,7551	0	0,5195 59	1,1558 6

1	29,67 34	16,5151	0	58.713, 66	2,0940 7	1,1377 6	22,8052	0	0,5195 59	1,1564 7
1	35,58 01	19,584	0	48.768, 44	2,2532 6	1,2763 3	23,5652	0	0,5195 59	1,1578 1
1	42,66 81	23,2666	0	44.040, 22	2,4429 4	1,4418 6	24,0909	0	0,5195 59	1,1595 9
1	50,25 11	27,6882	0	35.510, 95	2,6689 6	1,6401 2	24,4414	0	0,5195 59	1,1615 7
1	57,00 24	33,1211	0	27.987, 66	2,9444 1	1,7976 2	24,6715	0	0,5460 38	1,1636 1
1	60,10 79	35,7178	0	25.163, 92	3,0752 8	1,8704 4	24,74	0	0,5591 22	1,1644 5
1	65,27 39	40,0375	0	21.248, 58	3,2918	1,9936 6	24,8181	0	0,5807 48	1,1656 7
1	75,49 18	48,8847	0	15.558, 66	3,7318 8	2,2417	24,9056	0	0,6227 45	1,1675 5
1	88,17 64	60,3219	0	10.927, 77	4,2945	2,5628 1	24,9542	0	0,6743 86	1,1691 6
1	103,9 48	75,2702	0	7.340,5 4	5,0207 7	2,9820 9	24,9791	0	0,7383 29	1,1704 5
1	123,5 64	95,0147	0	4.711,4 3	5,967	3,5337 7	24,9909	0	0,8170 76	1,1714 3
1	126,6 43	98,2711	0	4.410,7 0	6,1218 1	3,6251 1	24,9919	0	0,8293 1	1,1715 4
1	147,8 84	121,136	0	3.111,0 0	7,1994 6	4,0760 3	24,9959	0	0,8893 17	1,1720 3
1	177,6 43	155,055	0	2.049,6 2	8,7743 3	4,6772 9	24,9982	0	0,9653 14	1,1724 3
1	213,8 11	199,328	0	1.324,8 2	10,794	5,3998 4	24,9992	0	1,0516 5	1,1727 1
1	256,6 76	257,302	0	842,58 4	13,389 4	6,2648 5	24,9995	0	1,1490 3	1,1729
1	308,4 99	333,415	0	528,06 1	16,729 1	7,3048 2	24,9996	0	1,2585 4	1,1730 2
1	372,2 57	433,597	0	326,63 1	21,032 1	8,5507 4	24,9998	0	1,3826	1,1731
1	450,3 89	565,769	0	200,18 6	26,582 6	10,036 9	24,9999	0	1,5206 4	1,1731 5

1	545,963	740,308	0	121,92	33,7397	11,7993	24,9999	0	1,67338	1,17318
1	662,726	970,851	0	73,91	42,9584	13,8824	25	0	1,84254	1,17319
1	736,688	1110,46	0	57,70	48,4354	15,037	25	0	1,93279	1,1732
2	0,22	-0,372439	0	1,00	0,00177245	0,925914	24,6396	0	0,519559	1,17396
2	0,32	-0,355257	0	910.084,68	0,501439	0,110428	-144,243	0	0,102496	1,85059
2	0,42	-0,34608	0	942.386,09	0,783965	0,155899	-150,217	0	0,0860138	1,91312
2	0,52	-0,33768	0	954.241,14	1,04242	0,18185	-152,373	0	0,0831483	1,93733
2	0,62	-0,329334	0	960.385,62	1,28911	0,198479	-153,482	0	0,0841188	1,95016
2	0,72	-0,320798	0	963.961,51	1,52601	0,210559	-154,093	0	0,0867445	1,95716
2	0,82	-0,311951	0	966.143,62	1,7558	0,22005	-154,384	0	0,0902241	1,96
2	0,92	-0,302731	0	967.494,16	1,9793	0,228149	-154,481	0	0,0941487	1,96027
2	1,02	-0,293107	0	968.305,18	2,19958	0,235123	-154,458	0	0,0983189	1,95898
2	1,12	-0,28306	0	968.742,23	2,42155	0,240927	-154,347	0	0,102637	1,95651
2	1,22	-0,272575	0	968.896,10	2,64546	0,245796	-154,166	0	0,107082	1,95311
2	1,32	-0,26164	0	968.831,35	2,87088	0,249979	-153,932	0	0,111626	1,94901



2	1,42	-	0	968.60	3,0974	0,2537	-153,654	0	0,1162	1,9443
		0,25024		1,26	6	77			19	4
		8								
2	1,52	-	0	968.24	3,3250	0,2573	-153,34	0	0,1208	1,9392
		0,23839		3,52	3	43			33	1
		6								
2	1,62	-	0	967.78	3,5534	0,2607	-153	0	0,1254	1,9337
		0,22608		2,02	5	13			57	5
		1								
2	1,72	-	0	967.23	3,7826	0,2639	-152,638	0	0,1300	1,9280
		0,21330		5,95	1	34			82	3
		5								
2	1,82	-	0	966.62	4,0124	0,2670	-152,256	0	0,1346	1,9220
		0,20006		1,17	1	59			95	8
		6								
2	1,92	-	0	965.94	4,2427	0,2701	-151,858	0	0,1392	1,9159
		0,18636		9,15	9	07			89	7
		7								
2	2,02	-	0	965.22	4,4736	0,2730	-151,448	0	0,1438	1,9097
		0,17220		9,02	9	88			6	6
		9								
2	2,12	-	0	964.46	4,7050	0,2760	-151,028	0	0,1483	1,9034
		0,15759		9,24	9	27			98	7
		7								
2	2,22	-	0	963.67	4,9369	0,2789	-150,6	0	0,1528	1,8971
		0,14253		8,89	5	73			88	1
		4								
2	2,34	-	0	962.69	5,2157	0,2825	-150,077	0	0,1582	1,8894
		0,12386		7,22	8	17			11	4
		9								
2	2,484	-	0	961.47	5,5511	0,2867	-149,441	0	0,1645	1,8802
		0,10063		9,30	9	61			03	4
		3								
2	2,656	-	0	959.97	5,9548	0,2918	-148,67	0	0,1719	1,8692
	8	0,07156		4,51	4	56			06	6
		7								
2	2,864	-	0	958.12	6,4408	0,2980	-147,738	0	0,1805	1,8562
	16	0,03502		7,92	4	25			46	2
		45								



2	3,054 11	7,78058 E-15	0	956.41 0,52	6,8875 6	0,3037 28	-146,88	0	0,1882 26	1,8444 5
2	3,054 11	7,78058 E-15	0	962.39 4,38	6,3948 1	0,0511 252	-148,743	0	1,2721	1,8679 3
2	3,112 99	0,06347 31	0	945.44 8,23	6,4384 9	0,0858 572	-145,14	0	0,9392 87	1,8286 7
2	3,411 59	0,27017 1	0	927.55 2,24	6,9103 1	0,2145 1	-141,234	0	0,5614 66	1,7885 3
2	3,769 91	0,4481	0	927.03 9,28	7,6864 4	0,3145 42	-140,689	0	0,4496 25	1,7812
2	4,199 89	0,62767 4	0	928.85 0,17	8,758	0,3911 95	-140,329	0	0,3924 53	1,7743
2	4,715 87	0,82066 7	0	930.47 9,58	10,147 5	0,4470 97	-139,584	0	0,3594 43	1,7622
2	5,335 04	1,03644	0	931.18 8,91	11,885 1	0,4852 33	-138,247	0	0,3412 21	1,743
2	6,078 05	1,28626	0	930.45 4,13	14,000 7	0,5103 86	-136,164	0	0,3336 92	1,7156 3
2	6,969 66	1,58368	0	927.71 7,39	16,530 7	0,5271 01	-133,188	0	0,3350 21	1,6796 5
2	8,039 59	1,94619	0	922.22 1,28	19,518 6	0,5402 88	-129,177	0	0,3439 41	1,6353 9
2	9,323 51	2,39697	0	912.95 2,46	23,016 2	0,5555 43	-124,004	0	0,3589 45	1,5840 6
2	10,86 42	2,96494	0	898.60 3,87	27,088 5	0,5782 42	-117,55	0	0,3781 38	1,5276 1
2	12,71 31	3,68439	0	877.57 8,71	31,811 9	0,6135 85	-109,713	0	0,3992 65	1,4684 7
2	14,93 17	4,59473	0	847.76 1,93	37,256	0,6664 92	-100,315	0	0,4204 51	1,4087 3
2	17,59 4	5,74215	0	805.76 3,87	43,443 5	0,7437 59	-88,9464	0	0,4406 9	1,3494 9
2	20,78 88	7,18168	0	746.16 3,91	50,278	0,8588 5	-74,8497	0	0,4597 11	1,2912
2	24,62 26	8,97995	0	667.14 7,19	57,337 6	1,0268 7	-57,5931	0	0,4777 81	1,2347
2	28,32 91	10,784	0	567.05 9,11	62,058 1	1,2719 3	-37,0282	0	0,4954 29	1,1821 6

2	28,32 91	10,784	0	567.05 9,11	62,058 1	1,2719 3	-37,0282	0	0,4954 29	1,1821 6
2	29,22 31	11,2296	0	532.56 2,69	62,343 5	1,3717 4	-30,2014	0	0,5009 83	1,1674 2
2	34,74 37	14,3113	0	275.13 3,35	63,546	2,3451 7	3,71604	0	0,6357 68	1,1426 7
2	41,36 84	18,9568	0	181.33 5,95	64,279 8	3,0742 7	11,6419	0	0,7501 57	1,1507 8
2	49,31 81	25,101	0	162.64 3,66	64,616 9	3,3287 3	13,5429	0	0,7872 97	1,1518
2	58,85 77	32,7572	0	149.95 8,44	65,006 1	3,5449 9	14,9319	0	0,8178 26	1,1523 3
2	70,30 53	42,3293	0	135.37 3,34	65,486 5	3,8142 6	16,2339	0	0,8545 48	1,1535 7
2	84,04 23	54,373	0	119.95 7,57	66,082 9	4,1519 2	17,423	0	0,899	1,1554 8
2	100,5 27	69,6369	0	104.04 4,08	66,828 5	4,5785 3	18,4781	0	0,9530 41	1,1579 7
2	120,3 08	89,1479	0	88.453, 93	67,767 5	5,1312 3	20,2785	0	1,0200 8	1,1578 3
2	144,0 46	114,255	0	75.389, 73	68,957 3	5,7349 9	21,8318	0	1,0900 8	1,1576 2
2	172,5 31	146,235	0	65.516, 40	70,448 1	6,3180 5	22,8799	0	1,1546 8	1,1579 7
2	206,7 13	186,962	0	56.062, 01	72,314 3	7,0011 9	23,6315	0	1,2274 7	1,1590 7
2	246,2 27	239,005	0	46.562, 79	74,656 4	7,8020 2	24,1483	0	1,3091 7	1,1606 4
2	292,6 83	305,727	0	37.502, 89	77,602 9	8,7421 8	24,4894	0	1,4008 7	1,1624 4
2	348,7 99	391,538	0	29.549, 41	81,317 9	9,8478 7	24,7052	0	1,5034 3	1,1642 8
2	356,2 49	403,67	0	28.798, 66	81,837 4	9,9961 3	24,7251	0	1,5169 1	1,1645 1
2	416,5 43	502,279	0	22.836, 17	86,012 8	11,146 8	24,836	0	1,6183 5	1,1660 3
2	498,0 19	645,426	0	17.354, 00	91,951 2	12,669 7	24,9123	0	1,7461	1,1675 9



2	596,2 55	830,972	0	12.949, 00	99,474 1	14,451 1	24,9547	0	1,8877 2	1,1689 2
2	714,6 84	1071,89	0	10.528, 89	109,01	16,527 1	24,9775	0	2,0439	1,1700 1
2	733,0 34	1110,45	0	10.457, 24	110,51 6	16,839 3	24,9796	0	2,0666 7	1,1701 4
3	48,36 74	- 13,8221	0	1,00	0,0017 7245	0,9259 14	24,6396	0	0,5195 59	1,1739 6
3	48,46 74	- 13,7808	0	586.37 3,95	1,8076 2	0,0115 104	-95,9054	0	0,3985 53	1,5666 7
3	48,56 74	- 13,7409	0	608.31 0,44	2,5553 9	0,0211 863	-99,5267	0	0,3986 15	1,5833 8
3	48,66 74	- 13,7011	0	613.30 6,65	3,1434 6	0,0309 376	-100,208	0	0,3991 9	1,5859 6
3	48,76 74	- 13,6611	0	614.75 6,37	3,6492 7	0,0406 508	-100,36	0	0,3998 13	1,5862 8
3	48,86 74	- 13,6211	0	616.08 8,73	4,1034 2	0,0501 581	-100,604	0	0,4001 82	1,5875 6
3	48,96 74	- 13,5811	0	619.78 4,47	4,5222 5	0,0590 823	-101,447	0	0,3999 45	1,5926 9
3	49,06 74	- 13,5411	0	624.55 5,20	4,9142 9	0,0674 76	-102,543	0	0,3995 3	1,5994 8
3	49,16 74	- 13,5012	0	629.59 4,91	5,2849 7	0,0754 402	-103,693	0	0,3991 2	1,6066 8
3	49,26 74	- 13,4613	0	634.59 9,70	5,6387 5	0,0830 319	-104,827	0	0,3987 62	1,6138 5
3	49,36 74	- 13,4214	0	639.43 5,80	5,9787 7	0,0903 013	-105,915	0	0,3984 69	1,6208
3	49,46 74	- 13,3816	0	644.05 0,58	6,3067 8	0,0972 976	-106,946	0	0,3982 39	1,6274 7
3	49,56 74	- 13,3418	0	648.42 4,81	6,6245 6	0,1040 52	-107,918	0	0,3980 69	1,6338 1
3	49,66 74	-13,302	0	652.56 0,66	6,9334 3	0,1105 91	-108,832	0	0,3979 52	1,6398 3
3	49,76 74	- 13,2622	0	656.46 5,54	7,2346 2	0,1169 35	-109,692	0	0,3978 83	1,6455 4
3	49,86	-	0	660.14	7,5291	0,1230	-110,498	0	0,3978	1,6509



	74	13,2224		7,30	8	95			58	6
3	49,96	-	0	663.61	7,8180	0,1290	-111,256	0	0,3978	1,6560
	74	13,1826		7,78	5	83			73	8
3	50,06	-	0	666.88	8,1019	0,1349	-111,967	0	0,3979	1,6609
	74	13,1428		8,78	2	1			25	4
3	50,16	-13,103	0	669.97	8,3810	0,1405	-112,637	0	0,3980	1,6655
	74			4,72	9	92			1	5
3	50,26	-	0	672.88	8,6558	0,1461	-113,268	0	0,3981	1,6699
	74	13,0632		7,94	8	42			24	2
3	50,36	-	0	675.64	8,9267	0,1515	-113,864	0	0,3982	1,6740
	74	13,0234		1,83		69			64	8
3	50,48	-	0	678.75	9,2469	0,1579	-114,535	0	0,3984	1,6788
	74	12,9756		0,96	9	28			62	1
3	50,63	-	0	682.22	9,6252	0,1653	-115,284	0	0,3987	1,6841
	14	12,9182		5,76	9	52			37	3
3	50,80	-	0	686.03	10,072	0,1739	-116,107	0	0,3991	1,6900
	42	12,8492		7,46	4	6			21	5
3	51,01	-	0	690.19	10,598	0,1839	-117,004	0	0,3996	1,6965
	16	12,7664		5,90	8	38			36	8
3	51,26	-	0	694.66	11,218	0,1954	-117,964	0	0,4003	1,7036
	04	12,6669		1,89	4	56			17	4
3	51,55	-	0	699.47	11,945	0,2087	-118,92	0	0,4011	1,7104
	9	12,5472		8,84	9	74			83	6
3	51,91	-	0	704.63	12,795	0,2236	-119,827	0	0,4025	1,7165
	73	12,4032		2,87	5	7			69	2
3	52,34	-	0	710.41	13,783	0,2402	-120,681	0	0,4044	1,7215
	73	12,2297		8,70	4	11			19	
3	52,86	-	0	716.87	14,934	0,2587	-121,438	0	0,4065	1,7248
	33	12,0205		4,54	8	8			88	3
3	53,48	-11,768	0	723.81	16,284	0,2795	-122,026	0	0,4091	1,7257
	25			3,55	7	98			07	9
3	54,22	-	0	730.96	17,907	0,3024	-122,351	0	0,4120	1,7234
	55	11,4629		7,14	7	53			6	6
3	55,11	-	0	737.81	19,917	0,3270	-122,196	0	0,4156	1,7157
	71	11,0939		2,30	8	71			08	1
3	56,18	-	0	743.62	22,411	0,3540	-121,305	0	0,4200	1,7002
	7	10,6469		5,19	1	27			07	8
3	57,47	-	0	747.60	25,470	0,3846	-119,484	0	0,4253	1,6760



	09	10,1042		5,95	4	26			69	4
3	59,01 16	- 9,44405	0	748.97 5,33	29,212 5	0,4202 55	-116,583	0	0,4316 11	1,6427 9
3	60,86 05	- 8,63965	0	747.05 6,93	33,779 5	0,4624 12	-112,545	0	0,4385 65	1,6017 3
3	63,07 91	- 7,65826	0	741.11 2,66	39,337 1	0,5129 22	-107,343	0	0,4460 17	1,5546 9
3	65,74 14	- 6,46041	0	730.16 1,69	46,065	0,5742 71	-100,968	0	0,4537	1,5039 3
3	68,93 62	-4,9984	0	713.24 1,14	54,156 7	0,6496 48	-93,4477	0	0,4613 89	1,4518 8
3	72,77	- 3,21456	0	689.31 2,08	63,802 2	0,7436 74	-84,799	0	0,4689 16	1,4005 8
3	77,37 05	- 1,03974	0	656.84 0,12	75,155 5	0,8638 79	-74,9559	0	0,4761 91	1,3514 4
3	79,54 66	4,81959 E-13	0	640.33 3,00	80,408 4	0,9244 55	-70,4685	0	0,4791 42	1,3318 2
3	79,54 66	4,81959 E-13	0	641.32 6,54	80,235 5	0,8933 28	-70,7311	0	0,4965 57	1,3329 2
3	82,89 11	1,64615	0	613.52 2,48	88,063 4	1,0175 6	-63,7505	0	0,4896 42	1,3054 4
3	89,51 58	4,88995	0	557.06 7,40	102,89 5	1,2529 4	-50,8592	0	0,4911 38	1,2625 3
3	97,46 55	8,81625	0	488.17 1,39	118,82 6	1,5768 6	-36,5293	0	0,4967 5	1,2240 2
3	107,0 05	13,7827	0	397.08 3,90	133,43 1	1,9488	-19,3522	0	0,5560 07	1,1878 9
3	113,9 04	17,8907	0	297.42 2,34	136,83 7	2,469	-3,8503	0	0,6486 57	1,1664 1
3	113,9 04	17,8907	0	297.42 2,34	136,83 7	2,4689 6	-3,8503	0	0,6486 67	1,1664 1
3	118,4 53	21,0723	0	212.23 0,77	137,79 2	3,093	6,13963	0	0,7490 16	1,1618 1
3	132,1 9	32,8257	0	123.18 6,59	139,30 1	4,3998 4	14,3283	0	0,9291 21	1,1653
3	148,6 74	48,6689	0	105.85 9,55	140,09 8	4,8805 4	16,1106	0	0,9894 31	1,1652 9
3	168,4	68,9037	0	90.313,	141,09	5,4468	17,5436	0	1,0566	1,1660

	56			94		9			3	2
3	192,1 93	94,9567	0	74.964, 72	142,34 1	6,1735 7	18,7334	0	1,1387 1	1,1674 8
3	220,6 78	128,47	0	64.426, 44	143,92	6,8461 5	20,1853	0	1,2110 6	1,1662 4
3	254,8 61	171,208	0	55.331, 42	145,89 3	7,5961 5	21,7868	0	1,2884 7	1,1640 7
3	295,8 79	225,839	0	46.623, 68	148,36 5	8,4637	22,92	0	1,3741	1,1633 2
3	345,1 02	295,843	0	38.323, 65	151,46 7	9,4707 6	23,6956	0	1,4690 7	1,1635 2
3	404,1 68	385,77	0	31.035, 11	155,36 7	10,642 6	24,2077	0	1,5744 8	1,1643 2
3	468,6 97	490,857	0	25.223, 87	159,83 1	11,886 8	24,5127	0	1,6812 7	1,1653 4
3	475,0 49	501,568	0	24.843, 83	160,28 1	12,007 5	24,5342	0	1,6913 8	1,1654 4
3	560,1 05	651,004	0	19.540, 76	166,47 8	13,597	24,7351	0	1,8207 8	1,1666 7
3	662,1 72	844,237	0	15.153, 10	174,30 3	15,444 3	24,8541	0	1,9635 3	1,1678 7
3	784,6 53	1094,48	0	11.628, 99	184,19 1	17,584 5	24,9217	0	2,1203 2	1,1689 7
3	901,4 55	1350,27	0	9.324,0 2	194,06 9	19,554 4	24,9528	0	2,2577 5	1,1697 5
4	83,66 98	- 16,3067	0	1,00	0,0017 7245	0,9259 14	24,6396	0	0,5195 59	1,1739 6
4	83,76 98	- 16,2627	0	502.02 5,46	1,9279 7	0,0099 1554	-84,1731	0	0,4302 89	1,5266 9
4	83,86 98	- 16,2196	0	522.57 8,35	2,7254 9	0,0183 731	-87,7647	0	0,4304 09	1,5420 6
4	83,96 98	- 16,1766	0	527.37 8,64	3,3511 2	0,0269 162	-88,4526	0	0,4307 68	1,5444 6
4	84,06 98	- 16,1335	0	528.84 7,30	3,8879 9	0,0354 452	-88,6211	0	0,4311 68	1,5448 5
4	84,16 98	- 16,0903	0	529.15 8,92	4,3694 3	0,0439 274	-88,6284	0	0,4315 7	1,5446 9

4	84,26 98	- 16,0472	0	529.50 2,12	4,8103 9	0,0522 891	-88,7088	0	0,4318 67	1,5451 2
4	84,36 98	-16,004	0	531.57 6,57	5,2218 8	0,0602 209	-89,2591	0	0,4318 19	1,5483 3
4	84,46 98	- 15,9608	0	534.82 0,37	5,6101 1	0,0677 152	-90,1098	0	0,4315 98	1,5533 1
4	84,56 98	- 15,9177	0	538.63 9,01	5,9794 3	0,0748 27	-91,0985	0	0,4313 33	1,5591 1
4	84,66 98	- 15,8745	0	542.71 2,56	6,3335 6	0,0815 967	-92,1399	0	0,4310 74	1,5652 7
4	84,76 98	- 15,8314	0	546.84 8,24	6,6750 6	0,0880 695	-93,1858	0	0,4308 4	1,5714 9
4	84,86 98	- 15,7884	0	550.93 6,63	7,0054 6	0,0942 904	-94,2102	0	0,4306 39	1,5776 3
4	84,96 98	- 15,7453	0	554.92 2,30	7,3260 7	0,1002 9	-95,2009	0	0,4304 71	1,5836 2
4	85,06 98	- 15,7023	0	558.78 3,71	7,6381 1	0,1060 9	-96,1539	0	0,4303 34	1,5894 3
4	85,16 98	- 15,6592	0	562.50 7,62	7,9427 2	0,1117 09	-97,067	0	0,4302 27	1,5950 5
4	85,26 98	- 15,6162	0	566.07 7,61	8,2411 9	0,1171 53	-97,9372	0	0,4301 51	1,6004 4
4	85,36 98	- 15,5732	0	569.50 5,25	8,5337 3	0,1224 46	-98,7685	0	0,4301 01	1,6056 3
4	85,46 98	- 15,5302	0	572.78 9,22	8,821	0,1275 99	-99,5613	0	0,4300 73	1,6106 2
4	85,56 98	- 15,4872	0	575.93 9,24	9,1032 7	0,1326 29	-100,319	0	0,4300 67	1,6154 2
4	85,66 98	- 15,4442	0	578.95 7,79	9,3811	0,1375 4	-101,042	0	0,4300 79	1,6200 4
4	85,78 98	- 15,3926	0	582.41 3,33	9,7092 6	0,1432 87	-101,867	0	0,4301 16	1,6253 5
4	85,93 38	- 15,3306	0	586.34 1,45	10,095 9	0,1499 97	-102,8	0	0,4301 89	1,6314 2
4	86,10 66	- 15,2563	0	590.75 8,97	10,551 1	0,1577 97	-103,846	0	0,4303 12	1,6382 9
4	86,31 39	-15,167	0	595.67 2,98	11,086 2	0,1668 27	-105,005	0	0,4305 04	1,6459 9



4	86,56 28	- 15,0599	0	601.06 2,88	11,715 1	0,1772 28	-106,272	0	0,4307 89	1,6545 3
4	86,86 14	- 14,9312	0	606.88 5,16	12,453 9	0,1891 5	-107,636	0	0,4311 96	1,6638 7
4	87,21 97	- 14,7766	0	613.06 5,08	13,320 2	0,2028 47	-109,023	0	0,4317 6	1,6733 3
4	87,64 97	- 14,5908	0	619.50 5,33	14,333 4	0,2187 29	-110,293	0	0,4325 13	1,6815 2
4	88,16 56	- 14,3674	0	626.77 5,84	15,518 8	0,2367 39	-111,495	0	0,4333 87	1,6884 5
4	88,78 48	- 14,0988	0	635.44 0,83	16,906 8	0,2566 27	-112,723	0	0,4343 53	1,6946 4
4	89,52 78	- 13,7756	0	645.22 2,72	18,532	0,2786 77	-113,866	0	0,4355 34	1,6991
4	90,41 94	- 13,3866	0	655.65 0,14	20,473 5	0,3028 43	-114,752	0	0,4370 83	1,7002 5
4	91,48 94	- 12,9178	0	665.93 8,15	22,876 5	0,3287	-115,097	0	0,4392 48	1,6955 6
4	92,77 33	- 12,3519	0	675.00 4,12	25,866 8	0,3570 26	-114,527	0	0,4423 15	1,6818 2
4	94,31 4	- 11,6674	0	681.83 3,53	29,521 5	0,3899 33	-112,789	0	0,4463 05	1,6574 9
4	96,16 28	- 10,8379	0	685.56 1,32	33,989 3	0,4288 97	-109,773	0	0,4510 73	1,6230 5
4	98,38 14	- 9,83106	0	685.22 2,45	39,45	0,4756 99	-105,402	0	0,4564 8	1,5799 1
4	101,0 44	- 8,60786	0	679.82 0,35	46,096	0,5327 64	-99,6693	0	0,4623 04	1,5305 2
4	104,2 39	- 7,12102	0	668.38 2,98	54,135	0,6031 91	-92,6405	0	0,4683 09	1,4779 6
4	108,0 72	- 5,31374	0	649.93 0,37	63,782 5	0,6910 87	-84,4133	0	0,4743 16	1,4251 9
4	112,6 73	- 3,11765	0	623.40 6,89	75,238 9	0,8026 53	-75,0453	0	0,4802 08	1,3743 6
4	118,1 93	- 0,45027 7	0	587.51 4,30	88,654 8	0,9480 5	-64,5088	0	0,4859 33	1,3267 7
4	119,1	6,63385	0	581.16	90,858	0,9739	-62,8056	0	0,4867	1,3198



	19	E-13		3,41	5	6			85	9
4	119,1 19	6,63385 E-13	0	582.15 6,61	90,673 7	0,9468 63	-63,0524	0	0,5013 11	1,3208 3
4	124,8 18	2,82891	0	540.30 9,58	103,83 2	1,1461 5	-52,658	0	0,4945 08	1,2830 4
4	132,7 68	6,76891	0	480.08 4,47	121,01	1,4363 6	-39,2596	0	0,4974 45	1,2430 6
4	142,3 08	11,5881	0	409.21 1,13	138,82 9	1,7784 5	-24,9002	0	0,5251 6	1,2084
4	153,7 55	18,098	0	303.01 0,88	152,5	2,3063 5	-6,61046	0	0,6212 46	1,1763 9
4	156,1 72	19,6328	0	276.27 3,83	153,13 9	2,475	-2,64685	0	0,6505 13	1,1713 3
4	156,1 72	19,6328	0	276.27 3,83	153,13 9	2,475	-2,64685	0	0,6505 12	1,1713 3
4	167,4 92	28,1329	0	146.79 7,48	154,88 3	3,7349 8	11,7621	0	0,8416 29	1,1658 7
4	183,9 77	43,1798	0	104.86 7,34	155,90 2	4,5983 2	15,4985	0	0,9545 79	1,1670 4
4	203,7 58	62,7129	0	87.112, 33	156,86 4	5,1405 6	17,1238	0	1,0207 4	1,1671
4	227,4 96	87,9047	0	70.235, 60	158,08	5,8434 8	18,4607	0	1,1020 2	1,1681 4
4	255,9 81	120,575	0	57.091, 03	159,62 6	6,5987 9	19,7886	0	1,1852 6	1,168
4	290,1 63	162,436	0	47.411, 40	161,56 6	7,3476 8	21,5623	0	1,2632 9	1,1651 9
4	331,1 82	216,053	0	38.908, 01	164,00 1	8,2140 8	22,7993	0	1,3498 5	1,1640 3
4	380,4 04	284,887	0	31.555, 02	167,06 1	9,2189 9	23,6339	0	1,4457 4	1,1639 9
4	439,4 71	373,463	0	25.268, 23	170,91 4	10,388 2	24,1781	0	1,5520 3	1,1646 4
4	497,9 39	467,098	0	20.717, 26	174,90 5	11,514 6	24,4758	0	1,6498 4	1,1654 8
4	510,3 51	487,727	0	20.052, 98	175,77 4	11,750 8	24,5206	0	1,6698 3	1,1656 6
4	595,4	635,378	0	15.632,	181,91	13,337	24,7293	0	1,8001	1,1668

	07			38	1	6			1	3
4	697,4 75	826,548	0	12.058, 57	189,66 9	15,182 4	24,8518	0	1,9437 4	1,1679 8
4	819,9 56	1074,42	0	9.169,5 6	199,48 2	17,320 7	24,9209	0	2,1014 4	1,1690 5
4	917,4 01	1284,91	0	7.622,5 4	207,63 9	18,967 9	24,9486	0	2,2174 6	1,1696 9
5	117,9 64	-18,081	0	1,00	0,0017 7245	0,9259 14	24,6396	0	0,5195 59	1,1739 6
5	118,0 64	- 18,0359	0	461.65 6,22	2,0237 8	0,0093 1864	-78,6653	0	0,4428 11	1,5103 5
5	118,1 64	- 17,9916	0	480.86 1,15	2,8639 3	0,0173 093	-82,1478	0	0,4429 54	1,5249 3
5	118,2 64	- 17,9473	0	485.36 4,41	3,5174 1	0,0254 296	-82,8111	0	0,4432 37	1,5271 9
5	118,3 64	- 17,9029	0	486.83 1,80	4,0782 3	0,0335 316	-82,9902	0	0,4435 2	1,5276 2
5	118,4 64	- 17,8586	0	487.20 5,23	4,5803 8	0,0415 938	-83,0129	0	0,4438 23	1,5275 5
5	118,5 64	- 17,8142	0	487.14 1,97	5,0408 7	0,0496 053	-82,9859	0	0,4441 23	1,5273 7
5	118,6 64	- 17,7698	0	487.78 8,02	5,4701 1	0,0573 986	-83,1847	0	0,4442 69	1,5285 4
5	118,7 64	- 17,7253	0	489.80 9,92	5,8749	0,0647 883	-83,7671	0	0,4441 87	1,5319
5	118,8 64	- 17,6809	0	492.78 5,15	6,2601 7	0,0717 692	-84,6028	0	0,4439 87	1,5366 9
5	118,9 64	- 17,6365	0	496.26 8,08	6,6293 1	0,0783 921	-85,5637	0	0,4437 55	1,5422 2
5	119,0 64	- 17,5922	0	499.97 5,67	6,9847 8	0,0847 099	-86,5719	0	0,4435 32	1,5480 5
5	119,1 64	- 17,5478	0	503.75 5,71	7,3283	0,0907 673	-87,5881	0	0,4433 29	1,5539 6
5	119,2 64	- 17,5035	0	507.52 3,27	7,6613 8	0,0965 966	-88,591	0	0,4431 5	1,5598 4
5	119,3 64	- 17,4592	0	511.22 8,47	7,9854 1	0,1022 21	-89,5687	0	0,4429 99	1,5656 1

5	119,4 64	- 17,4149	0	514.84 1,26	8,3017 5	0,1076 56	-90,5141	0	0,4428 76	1,5712 3
5	119,5 64	- 17,3706	0	518.34 9,07	8,611	0,1129 22	-91,4258	0	0,4427 76	1,5766 9
5	119,6 64	- 17,3263	0	521.74 2,50	8,9141 5	0,1180 32	-92,3021	0	0,4427	1,5819 8
5	119,7 64	- 17,2821	0	525.01 8,96	9,2116 1	0,123	-93,1436	0	0,4426 44	1,5871
5	119,8 64	- 17,2378	0	528.17 7,77	9,5039 6	0,1278 38	-93,9508	0	0,4426 08	1,5920 4
5	119,9 64	- 17,1936	0	531.22 0,48	9,7915 7	0,1325 55	-94,7248	0	0,4425 89	1,5968 2
5	120,0 84	- 17,1404	0	534.72 2,13	10,131	0,1380 7	-95,6117	0	0,4425 87	1,6023 4
5	120,2 28	- 17,0767	0	538.71 6,59	10,531	0,1444 91	-96,6189	0	0,4426 14	1,6086 6
5	120,4 01	- 17,0002	0	543.22 7,56	11,001 4	0,1519 43	-97,751	0	0,4426 83	1,6158 5
5	120,6 08	- 16,9084	0	548.26 9,50	11,553 5	0,1605 61	-99,0105	0	0,4428 07	1,6239 4
5	120,8 57	- 16,7982	0	553.83 6,62	12,200 2	0,1704 97	-100,395	0	0,4430 03	1,6329 7
5	121,1 55	- 16,6659	0	559.90 2,94	12,957 1	0,1818 99	-101,898	0	0,4432 92	1,6429 3
5	121,5 14	-16,507	0	566.42 0,80	13,843 1	0,1949 27	-103,502	0	0,4436 96	1,6537 3
5	121,9 44	- 16,3161	0	573.30 2,73	14,879 4	0,2098 71	-105,1	0	0,4442 46	1,6644 1
5	122,4 6	- 16,0867	0	580.50 4,14	16,089 8	0,2271 53	-106,521	0	0,4449 65	1,6732 4
5	123,0 79	- 15,8109	0	588.77 5,39	17,504 4	0,2465 28	-107,882	0	0,4457 7	1,6807 7
5	123,8 22	- 15,4793	0	598.63 3,86	19,159 2	0,2676 92	-109,275	0	0,4466 54	1,6875
5	124,7 13	- 15,0806	0	609.59 6,45	21,096 6	0,2910 61	-110,517	0	0,4477 76	1,6918 7
5	125,7 83	- 14,6007	0	620.95 3,50	23,444 4	0,3163 68	-111,351	0	0,4493 15	1,6916 2



5	127,067	-14,0224	0	631.737,71	26,3572	0,343767	-111,4280	0	0,451505	1,68371
5	128,608	-13,3245	0	640.845,01	29,9589	0,374658	-110,4080	0	0,454493	1,66556
5	130,457	-12,4808	0	647.144,67	34,3846	0,410984	-108,0360	0	0,458279	1,63602
5	132,675	-11,4592	0	649.531,66	39,7969	0,454953	-104,1830	0	0,462724	1,59595
5	135,338	-10,2206	0	646.979,18	46,3928	0,508934	-98,85760	0	0,46761	1,548
5	138,533	-8,71829	0	638.484,53	54,3939	0,575816	-92,13740	0	0,472733	1,49552
5	142,366	-6,89565	0	623.106,90	64,0344	0,659433	-84,15730	0	0,477917	1,44195
5	146,967	-4,68482	0	599.949,50	75,5417	0,76533	-75,04620	0	0,483039	1,39003
5	152,488	-2,00392	0	568.042,60	89,1074	0,902281	-64,85850	0	0,488034	1,34141
5	156,58	8,74057E-13	0	542.513,57	98,9112	1,01262	-57,76080	0	0,49115	1,31241
5	156,58	8,74057E-13	0	543.486,49	98,718	0,987937	-57,99480	0	0,50394	1,31326
5	159,112	1,26898	0	526.354,53	104,612	1,07679	-53,59730	0	0,499207	1,29703
5	167,062	5,22829	0	472.155,28	122,418	1,34929	-40,85210	0	0,498555	1,25621
5	176,602	10,0113	0	408.263,60	141,681	1,69673	-27,33940	0	0,510611	1,22108
5	188,049	16,2537	0	324.935,74	159,611	2,09236	-11,83190	0	0,584348	1,18969
5	195,635	20,9507	0	256.993,38	166,179	2,51008	-1,268950	0	0,656836	1,17445
5	195,635	20,9507	0	256.993,38	166,179	2,51008	-1,268950	0	0,656836	1,17445
5	201,786	25,2519	0	189.383,34	167,142	3,07512	7,245190	0	0,747555	1,16757
5	218,271	39,268	0	109.530,42	168,609	4,34056	14,83420	0	0,922109	1,16829

5	238,052	58,2124	0	90.007,53	169,546	4,88962	16,724	0	0,990689	1,16789
5	261,79	82,6842	0	72.327,56	170,733	5,5738	18,2066	0	1,07142	1,16856
5	290,275	114,531	0	57.990,46	172,245	6,34399	19,3766	0	1,15832	1,16931
5	324,457	155,475	0	47.882,79	174,149	7,09034	21,338	0	1,23681	1,16588
5	365,476	208,021	0	39.075,72	176,542	7,95203	22,6845	0	1,32407	1,16438
5	414,698	275,604	0	31.525,89	179,555	8,95134	23,5793	0	1,42065	1,16417
5	473,765	362,718	0	25.125,23	183,353	10,1145	24,1543	0	1,52761	1,16473
5	531,742	454,145	0	20.592,59	187,26	11,2263	24,4631	0	1,62519	1,16553
5	544,645	475,279	0	19.859,02	188,152	11,4708	24,5116	0	1,64612	1,16572
5	629,701	620,943	0	15.413,59	194,22	13,0513	24,7267	0	1,7771	1,16686
5	731,769	809,803	0	11.851,62	201,9	14,8902	24,8515	0	1,92149	1,16801
5	854,25	1055	0	8.988,56	211,625	17,0232	24,9215	0	2,08	1,16906
5	945,243	1249,29	0	7.562,70	219,171	18,5598	24,948	0	2,18912	1,16966
6	151,272	-19,457	0	1,00	0,00177245	0,925914	24,6396	0	0,519559	1,17396
6	151,372	-19,4112	0	432.939,92	2,08851	0,00895578	-74,7635	0	0,450795	1,49948
6	151,472	-19,3661	0	451.126,77	2,95652	0,0166657	-78,1709	0	0,450938	1,51362
6	151,572	-19,321	0	455.368,16	3,63386	0,0244762	-78,8191	0	0,451195	1,51584
6	151,672	-19,2759	0	456.705,98	4,21325	0,032286	-78,9889	0	0,451464	1,51627
6	151,7	-	0	457.04	4,7300	0,0400	-79,0116	0	0,4517	1,5162

	72	19,2307		4,67	5	794			27	2
6	151,8	-	0	456.95	5,2033	0,0478	-78,9801	0	0,4519	1,5160
	72	19,1856		9,67	3	402			82	3
6	151,9	-	0	457.08	5,6437	0,0554	-79,041	0	0,4521	1,5164
	72	19,1403		2,29		916			68	3
6	152,0	-	0	458.35	6,0591	0,0628	-79,4397	0	0,4521	1,5187
	72	19,0951		1,11	1	087			7	2
6	152,1	-	0	460.62	6,4546	0,0697	-80,1238	0	0,4520	1,5226
	72	19,0499		9,08	6	363			37	
6	152,2	-	0	463.56	6,8336	0,0762	-80,9848	0	0,4518	1,5274
	72	19,0047		5,01	1	982			45	9
6	152,3	-	0	466.86	7,1983	0,0825	-81,9346	0	0,4516	1,5328
	72	18,9595		1,58	7	416			44	9
6	152,4	-	0	470.32	7,5507	0,0885	-82,919	0	0,4514	1,5385
	72	18,9144		7,37	9	105			56	1
6	152,5	-	0	473.84	7,8922	0,0942	-83,9082	0	0,4512	1,5442
	72	18,8692		8,90	8	455			85	
6	152,6	-	0	477.35	8,2242	0,0997	-84,8839	0	0,4511	1,5498
	72	18,8241		5,38	6	737			34	5
6	152,7	-18,779	0	480.81	8,5478	0,1051	-85,8381	0	0,4510	1,5554
	72			4,78	2	13			05	1
6	152,8	-	0	484.19	8,8642	0,1102	-86,7639	0	0,4508	1,5608
	72	18,7339		9,85	8	76			99	5
6	152,9	-	0	487.49	9,1740	0,1152	-87,6602	0	0,4508	1,5661
	72	18,6888		9,01	2	85			11	5
6	153,0	-	0	490.70	9,4781	0,1201	-88,5249	0	0,4507	1,5713
	72	18,6438		2,81	3	44			43	
6	153,1	-	0	493.80	9,7767	0,1248	-89,3587	0	0,4506	1,5763
	72	18,5987		8,75	4	74			91	
6	153,2	-	0	496.81	10,070	0,1294	-90,1613	0	0,4506	1,5811
	72	18,5536		4,51	6	79			56	5
6	153,3	-	0	500.29	10,417	0,1348	-91,0851	0	0,4506	1,5867
	92	18,4995		1,26	3	58			31	8
6	153,5	-	0	504.27	10,825	0,1411	-92,1389	0	0,4506	1,5932
	36	18,4347		8,86	6	17			26	5
6	153,7	-	0	508.80	11,305	0,1483	-93,3295	0	0,4506	1,6006
	09	18,3568		9,72	6	73			51	5
6	153,9	-	0	513.90	11,869	0,1567	-94,6603	0	0,4507	1,6090



	16	18,2633		3,73	1	5			18	1
6	154,1	-	0	519.56	12,529	0,1663	-96,1306	0	0,4508	1,6183
	65	18,1512		4,69	7	81			44	9
6	154,4	-	0	525.77	13,303	0,1774	-97,7337	0	0,4510	1,6287
	64	18,0165		0,66		12			49	8
6	154,8	-	0	532.47	14,207	0,1899	-99,4585	0	0,4513	1,6401
	22	17,8548		8,07	4	95			54	7
6	155,2	-	0	539.61	15,264	0,2043	-101,253	0	0,4517	1,6521
	52	17,6607		2,01	3	39			84	6
6	155,7	-	0	547.06	16,497	0,2208	-102,944	0	0,4523	1,6631
	68	17,4274		1,13	9	46			69	4
6	156,3	-	0	555.11	17,937	0,2397	-104,45	0	0,4530	1,6720
	87	17,1471		6,49	2	09			84	2
6	157,1	-	0	564.75	19,618	0,2603	-105,982	0	0,4538	1,6800
	3	16,8102		5,86	8	48			39	9
6	158,0	-	0	575.83	21,582	0,2829	-107,447	0	0,4547	1,6865
	22	16,4051		6,39	5	16			49	
6	159,0	-	0	587.60	23,916	0,3076	-108,572	0	0,4559	1,6889
	92	15,9179		4,57	8	67			81	2
6	160,3	-	0	599.12	26,803	0,3343	-109,008	0	0,4577	1,6843
	75	15,3313		9,09	8	47			38	
6	161,9	-	0	609.36	30,367	0,3642	-108,412	0	0,4601	1,6699
	16	14,6242		7,77		32			75	1
6	163,7	-	0	617.24	34,752	0,3990	-106,511	0	0,4633	1,6442
	65	13,7705		0,00	5	15			31	1
6	165,9	-	0	621.56	40,128	0,4408	-103,113	0	0,4671	1,6072
	84	12,7383		3,48		91			29	7
6	168,6	-	0	621.09	46,686	0,4924	-98,1463	0	0,4713	1,5610
	46	11,4889		4,72	6	87			96	3
6	171,8	-	0	614.83	54,66	0,5565	-91,7249	0	0,4759	1,5092
	41	9,97542		8,72		28			21	3
6	175,6	-	0	601.80	64,294	0,6367	-83,9793	0	0,4805	1,4554
	75	8,14181		1,41	1	38			43	4
6	180,2	-	0	581.19	75,834	0,7383	-75,0711	0	0,4851	1,4027
	75	5,92027		9,89	8	15			36	3
6	185,7	-	0	552.32	89,505	0,8690	-65,1261	0	0,4896	1,3531
	96	3,22917		5,88	4	79			31	7
6	192,3	4,94082	0	514.41	105,31	1,0407	-54,2316	0	0,4939	1,3080



	6	E-15		6,60	8	7			85	7
6	192,3 6	4,94082 E-15	0	515.37 0,26	105,11 7	1,0177 3	-54,4559	0	0,5056 42	1,3088 5
6	192,4 2	0,03036 61	0	514.98 7,46	105,25 8	1,0198 7	-54,3547	0	0,5054 84	1,3084 7
6	200,3 7	4,01345	0	465.11 5,30	123,45 6	1,2852 3	-42,0246	0	0,4998 06	1,2667 1
6	209,9 1	8,79428	0	405.10 7,79	143,58 3	1,6360 4	-28,8428	0	0,5027 83	1,2304 2
6	221,3 57	14,8813	0	332.59 2,66	163,69 1	1,9808 4	-14,7041	0	0,5649 43	1,1993 7
6	233,0 3	21,9956	0	242.94 4,98	176,84	2,5344 5	- 0,277624	0	0,6612 87	1,1767 3
6	233,0 3	21,9956	0	242.94 4,98	176,84	2,5342 9	- 0,277624	0	0,6613 28	1,1767 3
6	235,0 94	23,3857	0	226.33 6,02	177,70 4	2,6530 8	2,12419	0	0,6817 12	1,1737 3
6	251,5 79	36,3754	0	118.67 4,22	179,42 3	4,0101 4	13,8248	0	0,8792 98	1,1689 3
6	271,3 6	54,7529	0	92.410, 93	180,39	4,6760 6	16,356	0	0,9645 59	1,1685 6
6	295,0 98	78,5978	0	73.962, 67	181,55	5,3429 8	17,977	0	1,0446 4	1,1688 8
6	323,5 83	109,697	0	58.746, 79	183,03 1	6,1171 7	19,1691	0	1,1326 2	1,1698
6	357,7 65	149,79	0	48.230, 10	184,90 1	6,8566 9	21,1409	0	1,2122 9	1,1664
6	398,7 84	201,345	0	39.167, 61	187,25 5	7,7123 6	22,5892	0	1,3001 9	1,1646 1
6	448,0 06	267,766	0	31.456, 62	190,22 2	8,7053 7	23,5378	0	1,3973 1	1,1642 5
6	507,0 73	353,518	0	24.956, 75	193,97	9,8617 6	24,1392	0	1,5048 2	1,1647 6
6	565,3 14	444,061	0	20.391, 26	197,84 6	10,972 8	24,4592	0	1,6033 1	1,1655 5
6	577,9 53	464,484	0	19.654, 54	198,71	11,211 1	24,5079	0	1,6238 8	1,1657 3
6	663,0	608,284	0	15.207, 204,71		12,784	24,7271	0	1,7554	1,1668

	09			96	2	7			8	7
6	765,077	794,971	0	11.661,67	212,317	14,617	24,853	0	1,90053	1,16801
6	887,558	1037,65	0	8.818,51	221,958	16,7441	24,923	0	2,05975	1,16907
6	974,6	1221,55	0	7.472,61	229,115	18,2115	24,9485	0	2,16473	1,16965
7	183,88	-20,5773	0	1,00	0,00177245	0,925914	24,6396	0	0,519559	1,17396
7	183,98	-20,531	0	410.997,04	2,15204	0,00869022	-71,8135	0	0,456463	1,49174
7	184,08	-20,4853	0	428.373,41	3,04583	0,0162065	-75,1531	0	0,456586	1,50552
7	184,18	-20,4396	0	432.441,94	3,74104	0,0238384	-75,7882	0	0,456809	1,50768
7	184,28	-20,3939	0	433.793,88	4,33452	0,0314784	-75,9656	0	0,457017	1,50815
7	184,38	-20,3482	0	434.174,27	4,86587	0,0390812	-75,9984	0	0,457236	1,50814
7	184,48	-20,3025	0	434.105,06	5,35256	0,0466514	-75,9693	0	0,457465	1,50797
7	184,58	-20,2567	0	433.922,21	5,80566	0,0541645	-75,9448	0	0,457678	1,5079
7	184,68	-20,211	0	434.559,23	6,23246	0,0614336	-76,178	0	0,457756	1,50928
7	184,78	-20,1652	0	436.299,35	6,63842	0,0683253	-76,7379	0	0,457681	1,51245
7	184,88	-20,1194	0	438.873,80	7,02697	0,0748338	-77,5354	0	0,457513	1,51694
7	184,98	-20,0737	0	441.937,14	7,40111	0,0809997	-78,4637	0	0,457315	1,52218
7	185,08	-20,028	0	445.186,64	7,76255	0,0868943	-79,4314	0	0,457135	1,52765
7	185,18	-19,9822	0	448.480,36	8,11247	0,0925645	-80,3979	0	0,456982	1,53314
7	185,28	-19,9366	0	451.782,80	8,45298	0,0980154	-81,3562	0	0,456848	1,53861

7	185,38	-19,8909	0	455.065,14	8,78493	0,103274	-82,3002	0	0,456732	1,54404
7	185,48	-19,8452	0	458.292,27	9,10942	0,108356	-83,2208	0	0,456633	1,54937
7	185,58	-19,7995	0	461.463,14	9,42633	0,113293	-84,1195	0	0,456548	1,55461
7	185,68	-19,7539	0	464.551,41	9,73737	0,118078	-84,9889	0	0,45648	1,55972
7	185,78	-19,7082	0	467.566,39	10,0422	0,122741	-85,8331	0	0,456423	1,56472
7	185,88	-19,6626	0	470.492,62	10,3421	0,127277	-86,6479	0	0,456381	1,56957
7	186	-19,6078	0	473.899,63	10,6953	0,132581	-87,5918	0	0,456345	1,57524
7	186,144	-19,5421	0	477.828,68	11,111	0,138749	-88,6739	0	0,456322	1,5818
7	186,317	-19,4633	0	482.324,49	11,5994	0,145895	-89,9043	0	0,456321	1,58933
7	186,524	-19,3686	0	487.409,94	12,172	0,154143	-91,2869	0	0,456352	1,59791
7	186,773	-19,2551	0	493.092,07	12,8436	0,163602	-92,8207	0	0,456434	1,60755
7	187,072	-19,1188	0	499.353,03	13,6311	0,174393	-94,499	0	0,456584	1,61827
7	187,43	-18,9551	0	506.147,55	14,5538	0,186649	-96,3096	0	0,456828	1,63005
7	187,86	-18,7586	0	513.398,87	15,6325	0,200555	-98,227	0	0,45719	1,64277
7	188,376	-18,5226	0	520.987,01	16,8867	0,216572	-100,068	0	0,457689	1,65479
7	188,995	-18,239	0	528.999,05	18,3466	0,235003	-101,713	0	0,458324	1,66481
7	189,738	-17,8982	0	538.443,42	20,0499	0,255268	-103,368	0	0,459002	1,67404
7	190,63	-17,4886	0	549.446,95	22,0379	0,277333	-104,996	0	0,459781	1,68199
7	191,7	-16,9961	0	561.511,87	24,3682	0,301604	-106,39	0	0,46079	1,68684



7	192,9 84	- 16,4036	0	573.82 2,86	27,211 6	0,3277 47	-107,236	0	0,4621 98	1,6859
7	194,5 24	-15,69	0	585.13 4,20	30,766 3	0,3562 82	-107,066	0	0,4642 55	1,6752
7	196,3 73	- 14,8291	0	594.07 9,90	35,126 4	0,3898 16	-105,498	0	0,4670 19	1,6521 8
7	198,5 92	- 13,7892	0	599.56 1,95	40,468 8	0,4303 17	-102,379	0	0,4703 9	1,6171 3
7	201,2 54	- 12,5318	0	600.51 3,48	46,998 4	0,4800 84	-97,6812	0	0,4742 19	1,5722 3
7	204,4 49	- 11,0101	0	595.92 0,30	54,952 9	0,5418 64	-91,4751	0	0,4783 36	1,5208 4
7	208,2 83	- 9,16791	0	584.83 4,63	64,59	0,6192 34	-83,9034	0	0,4825 77	1,4666 8
7	212,8 83	- 6,93766	0	566.22 9,84	76,155 7	0,7173 89	-75,1315	0	0,4868 05	1,4131 6
7	218,4 04	- 4,23829	0	539.44 0,71	89,896 4	0,8435 36	-65,3334	0	0,4909 56	1,3627 6
7	225,0 29	- 0,97191 5	0	503.74 2,78	106,00 5	1,0094 4	-54,5694	0	0,4950 2	1,3166 1
7	226,9 9	5,73297 E-15	0	492.66 4,35	110,66 7	1,0622 5	-51,5491	0	0,4960 93	1,3051 3
7	226,9 9	5,73297 E-15	0	493.60 0,82	110,46 1	1,0404 2	-51,7658	0	0,5069 4	1,3058 6
7	232,9 78	3,01288	0	457.91 3,89	124,28 8	1,2367 1	-42,7425	0	0,5013 71	1,2748 5
7	242,5 18	7,80271	0	400.38 0,67	144,96 5	1,5712	-29,7188	0	0,5033 86	1,2374 9
7	253,9 66	13,8067	0	332.38 8,43	166,29 3	1,9131 7	-16,1025	0	0,5535 23	1,2061 8
7	267,7 03	22,0551	0	232.67 0,59	183,86 6	2,4895 9	0,089654 5	0	0,6557 67	1,18
7	268,4 21	22,5288	0	226.85 5,74	184,45 8	2,5309 5	0,96556	0	0,6625 83	1,1787 7
7	268,4 21	22,5288	0	226.85 5,74	184,45 8	2,5299 5	0,96556	0	0,6628 44	1,1787 7
7	284,1	34,322	0	125.97	187,50	3,6782	12,9363	0	0,8353	1,1697



	87			8,48	9	7			22	8
7	303,9 68	52,0688	0	91.404, 21	188,52 8	4,4574 7	16,1819	0	0,9375 59	1,1693 8
7	327,7 06	75,2646	0	71.913, 44	189,65 9	5,1067 3	17,8936	0	1,0170 1	1,1693 8
7	356,1 91	105,583	0	55.727, 37	191,10 7	5,8888 9	19,1563	0	1,1072	1,1702 2
7	390,3 73	144,805	0	44.995, 89	192,94	6,6167 5	21,1458	0	1,1868 4	1,1667 4
7	431,3 92	195,324	0	35.898, 44	195,25 2	7,4652 2	22,6248	0	1,2749 4	1,1648 3
7	480,6 14	260,52	0	28.322, 42	198,17 1	8,4491 4	23,5779	0	1,3725 1	1,1644 4
7	539,6 81	344,831	0	22.003, 20	201,86 3	9,5950 8	24,1732	0	1,4807 2	1,1649 4
7	588,6 24	419,357	0	18.323, 40	205,06 5	10,524 9	24,4472	0	1,5641 2	1,1655 9
7	610,5 61	454,093	0	17.082, 95	206,54 1	10,936 2	24,5329	0	1,6001 3	1,1659
7	695,6 18	595,89	0	12.993, 50	212,47	12,500 7	24,7438	0	1,7322 5	1,1670 4
7	797,6 85	780,237	0	9.798,3 6	219,99 3	14,324 4	24,8634	0	1,8778 9	1,1681 7
7	920,1 66	1020,18	0	7.534,7 2	229,54 2	16,443 6	24,9292	0	2,0377 9	1,1692
7	984,3 91	1153,6	0	6.654,6 7	234,75 4	17,526 5	24,9478	0	2,1161 8	1,1696 3
8	208,7 58	- 21,3305	0	1,00	0,0017 7245	0,9259 14	24,6396	0	0,5195 59	1,1739 6
8	208,8 58	- 21,2839	0	397.00 5,94	2,1889 2	0,0085 384	-69,9274	0	0,4598 88	1,4869
8	208,9 58	- 21,2379	0	413.79 9,23	3,0984 9	0,0159 368	-73,2211	0	0,4600 15	1,5004 8
8	209,0 58	- 21,1918	0	417.70 2,23	3,8080 9	0,0234 303	-73,8452	0	0,4602 37	1,5026 3
8	209,1 58	- 21,1458	0	418.92 5,25	4,4151 4	0,0309 235	-74,0095	0	0,4604 63	1,5030 7



8	209,2 58	- 21,0998	0	419.23 5,65	4,9549 9	0,0384 113	-74,035	0	0,4606 81	1,5030 6
8	209,3 58	- 21,0537	0	419.14 1,42	5,4496 9	0,0458 599	-74,0046	0	0,4608 93	1,5028 9
8	209,4 58	- 21,0076	0	418.83 8,14	5,9097 8	0,0532 823	-73,9472	0	0,4611 03	1,5026 6
8	209,5 58	- 20,9615	0	419.21 4,84	6,3425 6	0,0605 071	-74,1108	0	0,4612	1,5036 5
8	209,6 58	- 20,9153	0	420.71 8,76	6,7536 3	0,0673 708	-74,6158	0	0,4611 4	1,5065 1
8	209,7 58	- 20,8692	0	423.00 3,15	7,1469 6	0,0738 763	-75,3476	0	0,4609 98	1,5106 1
8	209,8 58	- 20,8231	0	425.75 9,91	7,5253 3	0,0800 595	-76,2081	0	0,4608 31	1,5154 3
8	209,9 58	- 20,7771	0	428.77 8,62	7,8907 7	0,0859 621	-77,1338	0	0,4606 63	1,5206 2
8	210,0 58	-20,731	0	431.92 7,72	8,2449 4	0,0916 188	-78,0862	0	0,4605 06	1,5259 9
8	210,1 58	-20,685	0	435.12 7,77	8,5893 8	0,0970 54	-79,0427	0	0,4603 64	1,5314 1
8	210,2 58	- 20,6389	0	438.32 8,39	8,9252 8	0,1022 9	-79,99	0	0,4602 4	1,5368 2
8	210,3 58	- 20,5929	0	441.49 7,03	9,2536 4	0,1073 44	-80,9197	0	0,4601 33	1,5421 5
8	210,4 58	- 20,5469	0	444.61 3,07	9,5751	0,1122 36	-81,8272	0	0,4600	1,5474 43
8	210,5 58	- 20,5009	0	447.66 3,99	9,8898 7	0,1169 86	-82,7101	0	0,4599 67	1,5525 4
8	210,6 58	- 20,4549	0	450.63 7,83	10,198 9	0,1216	-83,5654	0	0,4599 05	1,5575 6
8	210,7 58	- 20,4089	0	453.53 4,39	10,502 5	0,1260 92	-84,3939	0	0,4598 56	1,5624 5
8	210,8 78	- 20,3538	0	456.90 1,57	10,860 6	0,1313 29	-85,3517	0	0,4598 14	1,5681 6
8	211,0 22	- 20,2875	0	460.78 0,19	11,282 5	0,1374 07	-86,4482	0	0,4597 85	1,5747 4
8	211,1 95	- 20,2081	0	465.21 8,36	11,778 2	0,1444 42	-87,6952	0	0,4597 78	1,5823 1

8	211,402	-20,1127	0	470.251,90	12,3589	0,152561	-89,1001	0	0,459801	1,59095
8	211,651	-19,9983	0	475.888,39	13,0387	0,161885	-90,6627	0	0,459868	1,60069
8	211,949	-19,861	0	482.124,28	13,8333	0,172548	-92,3798	0	0,459995	1,61157
8	212,308	-19,6961	0	488.939,55	14,7611	0,184696	-94,2443	0	0,460199	1,62369
8	212,738	-19,4982	0	496.274,20	15,8445	0,198476	-96,2331	0	0,460503	1,63668
8	213,254	-19,2605	0	504.014,20	17,1099	0,214125	-98,2476	0	0,460934	1,65002
8	213,873	-18,9749	0	512.148,90	18,585	0,232083	-100,07	0	0,461505	1,66152
8	214,616	-18,6318	0	521.335,80	20,3055	0,252163	-101,752	0	0,462155	1,67108
8	215,508	-18,2194	0	532.243,17	22,3121	0,273893	-103,445	0	0,462868	1,67962
8	216,577	-17,7236	0	544.440,91	24,6542	0,297645	-104,985	0	0,463776	1,68578
8	217,861	-17,1274	0	557.015,56	27,4897	0,323364	-106,012	0	0,465036	1,68648
8	219,402	-16,4096	0	568.787,37	31,0157	0,351508	-106,063	0	0,466874	1,67775
8	221,251	-15,5441	0	578.488,75	35,3602	0,38412	-104,769	0	0,46937	1,65703
8	223,47	-14,4993	0	584.904,40	40,6897	0,423377	-101,912	0	0,472483	1,62388
8	226,132	-13,2365	0	586.856,30	47,2083	0,471603	-97,4113	0	0,476108	1,58
8	229,327	-11,709	0	583.200,31	55,1519	0,531659	-91,3137	0	0,480052	1,52868
8	233,16	-9,86048	0	572.765,66	64,7698	0,607297	-83,7572	0	0,484124	1,47395
8	237,761	-7,62353	0	554.770,58	76,3307	0,703157	-74,9822	0	0,488197	1,41974
8	243,282	-4,91695	0	528.622,89	90,0934	0,826211	-65,168	0	0,492198	1,36856



8	249,906	-1,6429	0	493.668,80	106,257	0,987851	-54,4052	0	0,496093	1,32173
8	253,212	1,42695	0	475.361,06	114,128	1,07548	-49,385	0	0,497771	1,30267
8	253,212	1,42695	0	476.294,46	113,915	1,0544	-49,5983	0	0,508144	1,30337
8	257,856	2,34699	0	445.844,61	124,626	1,20126	-41,966	0	0,504566	1,27749
8	267,396	7,17609	0	373.907,43	144,87	1,53259	-26,1231	0	0,508234	1,23357
8	278,843	13,1971	0	292.339,65	165,083	1,89563	-10,9596	0	0,555874	1,20223
8	292,58	21,4591	0	201.337,37	182,9	2,44345	2,58804	0	0,650958	1,18363
8	294,207	22,5288	0	190.873,18	184,546	2,525	4,11777	0	0,664502	1,18152
8	294,207	22,5288	0	190.873,18	184,546	2,525	4,11777	0	0,664502	1,18152
8	309,065	33,307	0	122.729,44	190,335	3,29432	12,6645	0	0,782367	1,17251
8	328,846	49,9366	0	86.899,83	191,325	4,02051	16,1614	0	0,881766	1,17094
8	352,584	71,7887	0	66.673,18	192,393	4,63228	17,9696	0	0,959657	1,17045
8	381,069	100,477	0	49.778,94	193,767	5,41273	19,3026	0	1,05302	1,17116
8	415,251	137,864	0	39.179,07	195,521	6,12339	21,4764	0	1,13336	1,16695
8	456,27	186,19	0	30.482,04	197,74	6,94637	22,8951	0	1,22173	1,16515
8	505,492	248,765	0	23.454,53	200,552	7,90548	23,7778	0	1,31948	1,16488
8	564,559	329,943	0	17.849,19	204,12	9,02727	24,3101	0	1,4278	1,16547
8	583,006	356,58	0	16.578,34	205,274	9,37234	24,4145	0	1,45999	1,16572
8	635,439	435,457	0	13.548,69	208,653	10,3414	24,6213	0	1,54787	1,16647

8	720,495	572,843	0	10.006,95	214,418	11,8806	24,7977	0	1,68075	1,16758
8	822,563	751,982	0	7.378,58	221,754	13,68	24,8949	0	1,82736	1,16867
8	942,581	980,918	0	5.409,16	230,898	15,7349	24,9462	0	1,98533	1,16962
9	208,759	-21,3305	0	1,00	0,00177245	0,925914	24,6396	0	0,519559	1,17396
9	208,859	-21,2839	0	396.551,78	2,18892	0,0085384	-69,9274	0	0,459888	1,4869
9	208,959	-21,2379	0	413.325,86	3,09849	0,0159368	-73,2211	0	0,460015	1,50048
9	209,059	-21,1918	0	417.224,40	3,80809	0,0234303	-73,8452	0	0,460237	1,50263
9	209,159	-21,1458	0	418.446,02	4,41514	0,0309235	-74,0095	0	0,460463	1,50307
9	209,259	-21,0998	0	418.756,07	4,95499	0,0384113	-74,035	0	0,460681	1,50306
9	209,359	-21,0537	0	418.661,94	5,44969	0,0458599	-74,0046	0	0,460893	1,50289
9	209,459	-21,0076	0	418.359,01	5,90978	0,0532823	-73,9472	0	0,461103	1,50266
9	209,559	-20,9615	0	418.735,28	6,34256	0,0605071	-74,1108	0	0,4612	1,50365
9	209,659	-20,9153	0	420.237,48	6,75363	0,0673708	-74,6158	0	0,46114	1,50651
9	209,759	-20,8692	0	422.519,25	7,14696	0,0738763	-75,3476	0	0,460998	1,51061
9	209,859	-20,8231	0	425.272,86	7,52533	0,0800595	-76,2081	0	0,460831	1,51543
9	209,959	-20,7771	0	428.288,11	7,89077	0,0859621	-77,1338	0	0,460663	1,52062
9	210,059	-20,731	0	431.433,62	8,24494	0,0916188	-78,0862	0	0,460506	1,52599
9	210,159	-20,685	0	434.630,00	8,58938	0,097054	-79,0427	0	0,460364	1,53141
9	210,2	-	0	437.82	8,9252	0,1022	-79,99	0	0,4602	1,5368

	59	20,6389		6,96	8	9			4	2
9	210,3 59	- 20,5929	0	440.99 1,98	9,2536 4	0,1073 44	-80,9197	0	0,4601 33	1,5421 5
9	210,4 59	- 20,5469	0	444.10 4,46	9,5751	0,1122 36	-81,8272	0	0,4600 43	1,5474
9	210,5 59	- 20,5009	0	447.15 1,88	9,8898 7	0,1169 86	-82,7101	0	0,4599 67	1,5525 4
9	210,6 59	- 20,4549	0	450.12 2,32	10,198 9	0,1216	-83,5654	0	0,4599 05	1,5575 6
9	210,7 59	- 20,4089	0	453.01 5,57	10,502 5	0,1260 92	-84,3939	0	0,4598 56	1,5624 5
9	210,8 79	- 20,3538	0	456.37 8,90	10,860 6	0,1313 29	-85,3517	0	0,4598 14	1,5681 6
9	211,0 23	- 20,2875	0	460.25 3,08	11,282 5	0,1374 07	-86,4482	0	0,4597 85	1,5747 4
9	211,1 96	- 20,2081	0	464.68 6,17	11,778 2	0,1444 42	-87,6952	0	0,4597 78	1,5823 1
9	211,4 03	- 20,1127	0	469.71 3,96	12,358 9	0,1525 61	-89,1001	0	0,4598 01	1,5909 5
9	211,6 52	- 19,9983	0	475.34 4,00	13,038 7	0,1618 85	-90,6627	0	0,4598 68	1,6006 9
9	211,9 5	-19,861	0	481.57 2,75	13,833 3	0,1725 48	-92,3798	0	0,4599 95	1,6115 7
9	212,3 09	- 19,6961	0	488.38 0,23	14,761 1	0,1846 96	-94,2443	0	0,4601 99	1,6236
9	212,7 39	- 19,4982	0	495.70 6,49	15,844 5	0,1984 76	-96,2331	0	0,4605 03	1,6366 8
9	213,2 55	- 19,2605	0	503.43 7,63	17,109 9	0,2141 25	-98,2476	0	0,4609 34	1,6500 2
9	213,8 74	- 18,9749	0	511.56 3,02	18,585	0,2320 83	-100,07	0	0,4615 05	1,6615 2
9	214,6 17	- 18,6318	0	520.73 9,41	20,305 5	0,2521 63	-101,752	0	0,4621 55	1,6710 8
9	215,5 09	- 18,2194	0	531.63 4,30	22,312 1	0,2738 93	-103,445	0	0,4628 68	1,6796 2
9	216,5 78	- 17,7236	0	543.81 8,09	24,654 2	0,2976 45	-104,985	0	0,4637 76	1,6857 8
9	217,8	-	0	556.37	27,489	0,3233	-106,012	0	0,4650	1,6864

	62	17,1274		8,36	7	64			36	8
9	219,4 03	- 16,4096	0	568.13 6,71	31,015 7	0,3515 08	-106,063	0	0,4668 74	1,6777 5
9	221,2 52	- 15,5441	0	577.82 6,99	35,360 2	0,3841 2	-104,769	0	0,4693 7	1,6570 3
9	223,4 71	- 14,4993	0	584.23 5,30	40,689 7	0,4233 77	-101,912	0	0,4724 83	1,6238 8
9	226,1 33	- 13,2365	0	586.18 4,96	47,208 3	0,4716 03	-97,4113	0	0,4761 08	1,58
9	229,3 28	-11,709	0	582.53 3,15	55,151 9	0,5316 59	-91,3137	0	0,4800 52	1,5286 8
9	233,1 61	- 9,86048	0	572.11 0,45	64,769 8	0,6072 97	-83,7572	0	0,4841 24	1,4739 5
9	237,7 62	- 7,62353	0	554.13 5,95	76,330 7	0,7031 57	-74,9822	0	0,4881 97	1,4197 4
9	243,2 83	- 4,91695	0	528.01 8,17	90,093 4	0,8262 11	-65,168	0	0,4921 98	1,3685 6
9	249,9 07	-1,6429	0	493.10 4,07	106,25 7	0,9878 51	-54,4052	0	0,4960 93	1,3217 3
9	253,2 13	1,42695 E-12	0	474.81 7,27	114,12 8	1,0754 8	-49,385	0	0,4977 71	1,3026 7
9	253,2 13	1,42695 E-12	0	475.74 9,60	113,91 5	1,0544	-49,5983	0	0,5081 44	1,3033 7
9	257,8 57	2,34699	0	445.33 4,58	124,62 6	1,2012 6	-41,966	0	0,5045 66	1,2774 9
9	267,3 97	7,17609	0	373.47 9,69	144,87	1,5325 9	-26,1231	0	0,5082 34	1,2335 7
9	278,8 44	13,1971	0	292.00 5,22	165,08 3	1,8956 3	-10,9596	0	0,5558 74	1,2022 3
9	292,5 81	21,4591	0	201.10 7,05	182,9	2,4434 5	2,58804	0	0,6509 58	1,1836 3
9	294,2 08	22,5288	0	190.65 4,83	184,54 6	2,525	4,11777	0	0,6645 02	1,1815 2
9	294,2 08	22,5288	0	190.65 4,83	184,54 6	2,525	4,11777	0	0,6645 02	1,1815 2
9	309,0 66	33,307	0	122.32 1,38	190,33 5	3,2943 2	12,6645	0	0,7823 67	1,1725 1
9	328,8	49,9366	0	84.417,	191,32	4,0205	16,1614	0	0,8817	1,1709

	47			12	5	1			66	4
9	352,5 85	71,7887	0	63.087, 45	192,39 3	4,6322 8	17,9696	0	0,9596 57	1,1704 5
9	381,0 7	100,477	0	45.889, 58	193,76 7	5,4127 3	19,3026	0	1,0530 2	1,1711 6
9	415,2 52	137,864	0	35.503, 08	195,52 1	6,1233 9	21,4764	0	1,1333 6	1,1669 5
9	456,2 71	186,19	0	27.170, 66	197,74	6,9463 7	22,8951	0	1,2217 3	1,1651 5
9	505,4 93	248,765	0	20.588, 71	200,55 2	7,9054 8	23,7778	0	1,3194 8	1,1648 8
9	564,5 6	329,943	0	15.265, 25	204,12	9,0272 7	24,3101	0	1,4278	1,1654 7
9	583,0 07	356,58	0	14.653, 43	205,27 4	9,3723 4	24,4145	0	1,4599 9	1,1657 2
9	635,4 4	435,457	0	11.494, 69	208,65 3	10,341 4	24,6213	0	1,5478 7	1,1664 7
9	720,4 96	572,843	0	8.462,8 2	214,41 8	11,880 6	24,7977	0	1,6807 5	1,1675 8
9	822,5 64	751,982	0	6.137,3 8	221,75 4	13,68	24,8949	0	1,8273 6	1,1686 7
9	942,5 82	980,918	0	4.711,6 9	230,89 8	15,734 9	24,9462	0	1,9853 3	1,1696 2
10	216,0 26	- 21,5408	0	1,00	0,0017 7245	0,9259 14	24,6396	0	0,5195 59	1,1739 6
10	216,1 26	- 21,4941	0	393.14 3,33	2,2020 5	0,0084 9216	-69,4155	0	0,4608 1	1,4856 4
10	216,2 26	-21,448	0	409.67 1,85	3,1178 8	0,0158 533	-72,6812	0	0,4609 72	1,4991 3
10	216,3 26	- 21,4019	0	413.55 0,00	3,8306 6	0,0233 197	-73,3034	0	0,4611 72	1,5012 7
10	216,4 26	- 21,3558	0	414.80 6,63	4,4386 6	0,0307 984	-73,4727	0	0,4613 75	1,5017 3
10	216,5 26	- 21,3096	0	415.15 4,14	4,9814 8	0,0382 551	-73,5037	0	0,4615 77	1,5017 3
10	216,6 26	- 21,2635	0	415.08 8,59	5,4784 2	0,0456 839	-73,4772	0	0,4617 8	1,5015 7



10	216,7 26	- 21,2173	0	414.81 9,37	5,9402 6	0,0530 871	-73,4261	0	0,4619 82	1,5013 6
10	216,8 26	- 21,1711	0	415.02 3,02	6,3750 7	0,0603 292	-73,5371	0	0,4620 98	1,5020 7
10	216,9 26	- 21,1249	0	416.37 7,87	6,7884 6	0,0672 028	-74,002	0	0,4620 51	1,5047 1
10	217,0 26	- 21,0787	0	418.61 8,79	7,1841 1	0,0736 929	-74,7279	0	0,4619 09	1,5087 8
10	217,1 26	- 21,0325	0	421.34 9,45	7,5646 5	0,0798 563	-75,5885	0	0,4617 42	1,5135 8
10	217,2 26	- 20,9863	0	424.33 1,11	7,9321 1	0,0857 428	-76,5105	0	0,4615 8	1,5187 5
10	217,3 26	- 20,9402	0	427.43 3,69	8,2887 9	0,0913 728	-77,456	0	0,4614 31	1,5240 7
10	217,4 26	-20,894	0	430.58 8,65	8,6355	0,0967 841	-78,4068	0	0,4612 95	1,5294 4
10	217,5 26	- 20,8479	0	433.75 1,18	8,9730 4	0,1020 06	-79,3511	0	0,4611 74	1,5348 2
10	217,6 26	- 20,8018	0	436.88 3,32	9,3027 6	0,1070 49	-80,2783	0	0,4610 69	1,5401 3
10	217,7 26	- 20,7557	0	439.96 9,45	9,6251 7	0,1119 36	-81,1852	0	0,4609 78	1,5453 7
10	217,8 26	- 20,7096	0	442.99 7,48	9,9409 4	0,1166 79	-82,0691	0	0,4609 01	1,5505
10	217,9 26	- 20,6635	0	445.95 6,82	10,250 8	0,1212 89	-82,9277	0	0,4608 38	1,5555 3
10	218,0 26	- 20,6174	0	448.84 4,66	10,555 3	0,1257 77	-83,7608	0	0,4607 86	1,5604 4
10	218,1 46	- 20,5621	0	452.21 1,14	10,914 2	0,1310 12	-84,7264	0	0,4607 4	1,5661 8
10	218,2 9	- 20,4958	0	456.10 3,60	11,336 7	0,1370 93	-85,8358	0	0,4607 04	1,5728 2
10	218,4 63	- 20,4162	0	460.56 3,23	11,833 5	0,1441 2	-87,0979	0	0,4606 89	1,5804 7
10	218,6 7	- 20,3207	0	465.61 5,83	12,417	0,1522 05	-88,5174	0	0,4607 05	1,5891 7
10	218,9 19	-20,206	0	471.27 3,92	13,1	0,1614 85	-90,0961	0	0,4607 66	1,5989 9

10	219,2 18	- 20,0684	0	477.52 5,51	13,898 4	0,1720 95	-91,8285	0	0,4608 88	1,6099 4
10	219,5 76	- 19,9032	0	484.33 8,04	14,830 8	0,1841 72	-93,7041	0	0,4610 89	1,6220 2
10	220,0 06	- 19,7049	0	491.64 6,73	15,919 7	0,1978 56	-95,7057	0	0,4613 9	1,6351 7
10	220,5 22	- 19,4667	0	499.36 6,96	17,189 8	0,2134 24	-97,7262	0	0,4618 13	1,6485 2
10	221,1 41	- 19,1806	0	507.37 4,56	18,669 6	0,2314 05	-99,5044	0	0,4623 85	1,6596 3
10	221,8 84	- 18,8368	0	516.63 0,85	20,394 9	0,2512 91	-101,252	0	0,4630 1	1,6697 3
10	222,7 76	- 18,4237	0	527.49 6,13	22,405 3	0,2728 83	-102,989	0	0,4637 21	1,6787
10	223,8 46	-17,927	0	539.53 8,95	24,754 6	0,2965 65	-104,522	0	0,4646 38	1,6848 7
10	225,1 3	- 17,3297	0	552.04 2,56	27,584	0,3222 75	-105,564	0	0,4659 02	1,6857 7
10	226,6 7	- 16,6105	0	563.82 9,58	31,111 6	0,3501 23	-105,665	0	0,4677 28	1,6775 7
10	228,5 19	- 15,7435	0	573.52 4,79	35,471 3	0,3822 65	-104,388	0	0,4702 46	1,6570 7
10	230,7 38	- 14,6968	0	579.91 2,42	40,791	0,4213 38	-101,531	0	0,4733 42	1,6240 2
10	233,4	- 13,4318	0	581.84 7,17	47,299 9	0,4693 78	-97,041	0	0,4768 81	1,5803 5
10	236,5 95	-11,902	0	578.19 0,04	55,229 4	0,5292 21	-90,9694	0	0,4807 21	1,5293 7
10	240,4 29	- 10,0512	0	567.91 3,17	64,840 3	0,6043 8	-83,4671	0	0,4846 96	1,4750 4
10	245,0 29	- 7,81181	0	550.20 4,39	76,405 5	0,6995 7	-74,7369	0	0,4886 84	1,421
10	250,5 5	- 5,10266	0	524.37 5,20	90,172 1	0,8218 7	-64,9625	0	0,4925 96	1,3699
10	257,1 75	- 1,82407	0	486.81 1,64	106,32 4	0,9780 97	-53,5951	0	0,4979 49	1,3209 5
10	265,1 24	2,16403	0	425.41 2,14	124,52 7	1,2001 3	-38,5692	0	0,5048 52	1,2704 3



10	274,6 64	7,00467	0	350.18 2,58	144,10 2	1,5425 6	-22,8223	0	0,5095 75	1,2297 3
10	286,1 12	13,05	0	272.24 8,52	164,07	1,9004	-8,96223	0	0,5575 03	1,2029 6
10	299,8 49	21,2922	0	190.78 8,30	182,94 8	2,4040 5	3,05789	0	0,6450 08	1,1865 4
10	301,7 45	22,5288	0	180.13 2,85	185,11 1	2,4879 5	4,65699	0	0,6590 06	1,1841 7
10	301,7 45	22,5288	0	180.13 2,85	185,11 1	2,4879 5	4,65699	0	0,6590 06	1,1841 7
10	316,3 33	32,9641	0	116.63 0,04	193,70 8	3,1817 2	12,7539	0	0,7663 7	1,1744 6
10	336,1 14	49,0924	0	83.352, 51	195,25 2	3,8112 9	16,0929	0	0,8541 48	1,1719 2
10	359,8 52	70,2818	0	62.445, 39	196,28 9	4,4054 2	17,973	0	0,9313 72	1,1710 9
10	388,3 37	98,1567	0	45.257, 05	197,62 6	5,1829	19,3606	0	1,0261 6	1,1716 5
10	422,5 19	134,709	0	34.797, 23	199,34 3	5,9	21,6101	0	1,1085 6	1,1672 1
10	463,5 38	182,018	0	26.602, 51	201,51 9	6,7110 9	23,0061	0	1,1970 3	1,1654 1
10	512,7 6	243,376	0	20.110, 26	204,28	7,6584 7	23,8594	0	1,2948 3	1,1651 7
10	571,8 27	323,103	0	15.103, 57	207,79 1	8,7690 9	24,3654	0	1,4031 9	1,1657 8
10	575,6 45	328,474	0	15.033, 01	208,02 4	8,8379 1	24,3875	0	1,4102 8	1,1658 3
10	642,7 07	426,91	0	11.241, 28	212,25 8	10,070 8	24,6564	0	1,5236 9	1,1667 7
10	727,7 64	562,253	0	8.243,7 4	217,94 7	11,598 1	24,8189	0	1,6569 2	1,1678 6
10	829,8 31	738,983	0	5.979,9 0	225,19 6	13,386 1	24,907	0	1,8039 9	1,1689 1
10	918,1 65	903,606	0	4.896,0 6	231,80 4	14,896 8	24,9442	0	1,9219 9	1,1696 1
11	222,0	-	0	1,00	0,0017	0,9259	24,6396	0	0,5195	1,1739



	87	21,7162			7245	14			59	6
11	222,1	-	0	389.95	2,2120	0,0084	-68,9886	0	0,4615	1,4845
	87	21,6694		7,12	6	5883			7	8
11	222,2	-	0	406.23	3,1282	0,0158	-72,226	0	0,4617	1,4979
	87	21,6233		9,18	8	046			6	7
11	222,3	-	0	410.06	3,8410	0,0232	-72,8437	0	0,4619	1,5001
	87	21,5771		2,81	5	52			56	
11	222,4	-	0	411.30	4,4489	0,0307	-73,0128	0	0,4621	1,5005
	87	21,5309		5,60	6	102			53	6
11	222,5	-	0	411.65	4,9918	0,0381	-73,0444	0	0,4623	1,5005
	87	21,4847		0,26	9	437			5	7
11	222,6	-	0	411.58	5,4888	0,0455	-73,0189	0	0,4625	1,5004
	87	21,4384		7,77	2	507			48	2
11	222,7	-	0	411.31	5,9506	0,0529	-72,9657	0	0,4627	1,5002
	87	21,3921		2,42	7	336			47	
11	222,8	-	0	411.36	6,3855	0,0601	-73,032	0	0,4628	1,5006
	87	21,3459		6,16	2	867			83	7
11	222,9	-	0	412.70	6,7990	0,0670	-73,4949	0	0,4628	1,5032
	87	21,2996		5,03	5	435			36	9
11	223,0	-	0	414.93	7,1947	0,0735	-74,2214	0	0,4626	1,5073
	87	21,2533		0,53	8	162			94	5
11	223,1	-21,207	0	417.60	7,5753	0,0796	-75,0704	0	0,4625	1,5120
	87			2,47	4	75			35	9
11	223,2	-	0	420.53	7,9428	0,0855	-75,9836	0	0,4623	1,5172
	87	21,1608		0,45	8	566			78	
11	223,3	-	0	423.59	8,2988	0,0911	-76,9272	0	0,4622	1,5225
	87	21,1146		8,12	3	955			28	
11	223,4	-	0	426.72	8,6447	0,0966	-77,8789	0	0,4620	1,5278
	87	21,0684		7,81	2	158			9	8
11	223,5	-	0	429.86	8,9818	0,1018	-78,8245	0	0,4619	1,5332
	87	21,0222		9,17	7	36			68	6
11	223,6	-20,976	0	432.98	9,3112	0,1068	-79,755	0	0,4618	1,5385
	87			7,89	2	77			61	8
11	223,7	-	0	436.06	9,6334	0,1117	-80,6651	0	0,4617	1,5438
	87	20,9298		1,37	9	56			7	3
11	223,8	-	0	439.07	9,9493	0,1164	-81,5514	0	0,4616	1,5489
	87	20,8836		5,59	9	86			94	7
11	223,9	-	0	442.02	10,259	0,1210	-82,4126	0	0,4616	1,5540

	87	20,8374		2,06	3	83			31	1
11	224,0 87	- 20,7913	0	444.89 4,81	10,563 8	0,1255 57	-83,2474	0	0,4615 81	1,5589 2
11	224,2 07	- 20,7359	0	448.24 1,40	10,922 7	0,1307 74	-84,2145	0	0,4615 36	1,5646 6
11	224,3 51	- 20,6694	0	452.10 9,46	11,345 3	0,1368 32	-85,3252	0	0,4615 04	1,5713
11	224,5 23	- 20,5897	0	456.54 0,35	11,841 9	0,1438 36	-86,5889	0	0,4614 91	1,5789 5
11	224,7 31	-20,494	0	461.56 3,40	12,424 6	0,1519 01	-88,0116	0	0,4615 1	1,5876 6
11	224,9 8	- 20,3792	0	467.19 1,55	13,107	0,1611 5	-89,5947	0	0,4615 73	1,5974 9
11	225,2 78	- 20,2413	0	473.41 5,28	13,905 2	0,1717 12	-91,3334	0	0,4616 98	1,6084 7
11	225,6 37	- 20,0758	0	480.19 8,45	14,838 1	0,1837 21	-93,2167	0	0,4619 03	1,6205 9
11	226,0 67	- 19,8772	0	487.47 6,05	15,928	0,1973 24	-95,2198	0	0,4622 1	1,6337 3
11	226,5 83	- 19,6386	0	495.15 3,29	17,198 9	0,2127 81	-97,2632	0	0,4626 42	1,6472 7
11	227,2 02	- 19,3519	0	503.14 4,89	18,678 5	0,2305 58	-99,1275	0	0,4632 17	1,6591 7
11	227,9 45	- 19,0075	0	512.16 2,23	20,402 2	0,2504 48	-100,866	0	0,4638 69	1,6693 2
11	228,8 36	- 18,5936	0	522.90 1,88	22,413 5	0,2719 54	-102,604	0	0,4645 72	1,6783 7
11	229,9 06	-18,096	0	534.95 7,34	24,760 3	0,2954 54	-104,17	0	0,4654 58	1,6848 6
11	231,1 9	- 17,4977	0	547.47 1,26	27,588 5	0,3209 16	-105,256	0	0,4666 88	1,6861 8
11	232,7 31	- 16,7773	0	559.28 1,78	31,102 2	0,3486 78	-105,394	0	0,4684 61	1,6783 6
11	234,5 8	- 15,9089	0	569.00 8,98	35,431 5	0,3808 37	-104,172	0	0,4708 82	1,6584 1
11	236,7 98	- 14,8609	0	575.54 9,53	40,745 2	0,4194 61	-101,394	0	0,4738 96	1,6260 4
11	239,4	-	0	577.71	47,245	0,4669	-96,9731	0	0,4773	1,5828

	61	13,5945		8,92	5	81			75	2
11	242,6	-	0	574.41	55,171	0,5261	-90,9561	0	0,4811	1,5319
	55	12,0633		2,71	6	67			59	9
11	246,4	-	0	564.45	64,777	0,6007	-83,4741	0	0,4850	1,4775
	89	10,2108		0,92	5	03			78	
11	251,0	-	0	547.01	76,334	0,6952	-74,7565	0	0,4890	1,4232
	9	7,96987		5,52	3	17			07	7
11	256,6	-	0	518.69	90,083	0,8128	-64,4073	0	0,4943	1,3698
	1	5,25712		2,44	2	07			83	3
11	263,2	-	0	469.01	105,95	0,9681	-50,6979	0	0,5016	1,3142
	35	1,95555		0,81		69			36	3
11	271,1	2,05455	0	401.86	123,69	1,2070	-35,1131	0	0,5068	1,2650
	85			6,74	2	9			08	1
11	280,7	6,90865	0	328.82	142,96	1,5506	-20,3708	0	0,5105	1,2288
	24			7,19	3	2			65	9
11	292,1	12,9583	0	256.46	163,18	1,8926	-7,76774	0	0,5566	1,2052
	72			2,43	3	5			69	8
11	305,9	21,1442	0	182.79	183,25	2,3531	3,23063	0	0,6370	1,1896
	09			3,85	3	7			83	1
11	308,0	22,5288	0	171.92	185,95	2,4384	4,91973	0	0,6514	1,1868
	58			9,82		6			18	9
11	308,0	22,5288	0	171.92	185,95	2,4384	4,91973	0	0,6514	1,1868
	58			9,82		6			18	9
11	322,3	32,614	0	111.69	196,28	3,0866	12,8186	0	0,7527	1,1763
	93			4,25	2	9			4	1
11	342,1	48,4493	0	80.511,	199,25	3,6922	16,1874	0	0,8381	1,1732
	75			55	5	5			81	5
11	365,9	69,2532	0	61.794,	200,27	4,2754	18,0666	0	0,9149	1,1721
	12			27	4	3			04	2
11	394,3	96,6518	0	45.877,	201,58	5,0411	19,5303	0	1,0092	1,1721
	98			91	9	7			8	4
11	428,5	132,646	0	35.822,	203,28	5,7594	21,7564	0	1,0927	1,1676
	8			52	1	9			4	8
11	469,5	179,308	0	27.928,	205,43	6,5634	23,1123	0	1,1811	1,1658
	98			63		2			8	8
11	518,8	239,889	0	21.551,	208,15	7,5030	23,9312	0	1,2790	1,1656
	21			15	9	2			9	3
11	564,7	300,676	0	17.201,	210,84	8,3627	24,3325	0	1,3643	1,1660



	96			45	5	9			6	4
11	577,888	318,724	0	16.455,41	211,634	8,60557	24,4107	0	1,38776	1,16621
11	648,768	421,423	0	12.376,17	216,058	9,90007	24,684	0	1,50829	1,16715
11	733,824	555,466	0	9.601,01	221,699	11,4198	24,8348	0	1,64176	1,16819
11	835,891	730,664	0	7.378,02	228,893	13,2006	24,9159	0	1,78912	1,16919
11	888,75	827,142	0	6.526,11	232,784	14,1054	24,9386	0	1,86083	1,1696
12	247,799	-22,3722	0	1,00	0,00177245	0,925914	24,6396	0	0,519559	1,17396
12	247,899	-22,3251	0	373.483,43	2,2446	0,00830055	-66,7658	0	0,465316	1,47905
12	247,999	-22,2786	0	389.394,45	3,17829	0,0155101	-70,002	0	0,465439	1,49242
12	248,099	-22,232	0	393.121,16	3,90253	0,0228407	-70,6175	0	0,465621	1,49456
12	248,199	-22,1855	0	394.363,84	4,52129	0,0301722	-70,7932	0	0,465791	1,49505
12	248,299	-22,1389	0	394.710,82	5,0743	0,0374755	-70,8289	0	0,465973	1,49509
12	248,399	-22,0923	0	394.647,44	5,58016	0,0447531	-70,8056	0	0,466163	1,49496
12	248,499	-22,0456	0	394.373,11	6,05059	0,0520029	-70,7543	0	0,466351	1,49475
12	248,599	-21,999	0	394.326,89	6,49305	0,0591503	-70,7946	0	0,466491	1,49508
12	248,699	-21,9523	0	395.200,56	6,91306	0,0660023	-71,1301	0	0,466503	1,49702
12	248,799	-21,9057	0	396.962,73	7,31481	0,0724915	-71,7401	0	0,466413	1,50043
12	248,899	-21,8591	0	399.309,31	7,70112	0,0786456	-72,5224	0	0,466276	1,50479
12	248,999	-21,8124	0	401.999,61	8,07414	0,0845064	-73,3989	0	0,466129	1,50967



12	249,0	-	0	404.87	8,4355	0,0901	-74,3205	0	0,4659	1,5148
	99	21,7658		5,49	6	126			87	2
12	249,1	-	0	407.84	8,7865	0,0954	-75,2597	0	0,4658	1,5200
	99	21,7192		4,03	8	97			55	9
12	249,2	-	0	410.84	9,1284	0,1006	-76,1989	0	0,4657	1,5253
	99	21,6727		4,92	4	83			36	9
12	249,3	-	0	413.83	9,4621	0,1056	-77,1273	0	0,4656	1,5306
	99	21,6261		9,96	6	89			32	7
12	249,4	-	0	416.80	9,7888	0,1105	-78,038	0	0,4655	1,5358
	99	21,5795		3,36	1	28			43	8
12	249,5	-21,533	0	419.72	10,108	0,1152	-78,928	0	0,4654	1,541
	99			0,66	9	18			68	
12	249,6	-	0	422.58	10,423	0,1197	-79,7945	0	0,4654	1,5460
	99	21,4864		0,39	1	67			06	3
12	249,7	-	0	425.37	10,732	0,1241	-80,6367	0	0,4653	1,5509
	99	21,4399		6,22		9			55	4
12	249,9	-	0	428.64	11,096	0,1293	-81,6143	0	0,4653	1,5566
	19	21,3841		1,57		44			1	9
12	250,0	-	0	432.42	11,524	0,1353	-82,741	0	0,4652	1,5633
	63	21,3171		8,20		31			73	8
12	250,2	-	0	436.77	12,026	0,1422	-84,0269	0	0,4652	1,5711
	35	21,2367		9,31	2	57			53	
12	250,4	-	0	441.72	12,614	0,1502	-85,4794	0	0,4652	1,5799
	43	21,1402		9,88	9	32			59	2
12	250,6	-	0	447.29	13,304	0,1593	-87,0995	0	0,4653	1,5899
	92	21,0244		4,54	6	59			04	
12	250,9	-	0	453.47	14,111	0,1697	-88,8851	0	0,4654	1,6010
	9	20,8855		2,60	1	67			05	9
12	251,3	-	0	460.23	15,053	0,1815	-90,8258	0	0,4655	1,6134
	49	20,7187		3,27	5	84			78	7
12	251,7	-	0	467.51	16,153	0,1949	-92,9042	0	0,4658	1,6270
	78	20,5184		6,23	8	5			45	1
12	252,2	-20,278	0	475.23	17,436	0,2100	-95,0458	0	0,4662	1,6411
	94			2,73	2	99			26	6
12	252,9	-	0	483.24	18,929	0,2274	-97,0286	0	0,4667	1,6539
	14	19,9892		1,94	4	96			46	4
12	253,6	-	0	492.10	20,668	0,2469	-98,8871	0	0,4673	1,6651
	57	19,6421		2,32	2	34			85	8

12	254,5 48	- 19,2247	0	501.05 0,08	22,679 2	0,2674 18	-100,508	0	0,4688 66	1,6742 6
12	255,6 18	- 18,7214	0	508.21 8,61	25,003 7	0,2883 42	-101,518	0	0,4718 79	1,6788
12	256,9 02	- 18,1133	0	513.73 6,36	27,776 8	0,3107 09	-101,764	0	0,4753 2	1,6770 3
12	258,4 43	- 17,3781	0	516.97 4,09	31,194 6	0,3352 02	-100,902	0	0,4789 47	1,6660 1
12	260,2 92	-16,489	0	517.04 7,29	35,390 7	0,3634 74	-98,619	0	0,4827 89	1,6437 7
12	262,5 1	- 15,4133	0	512.78 3,07	40,513 9	0,3978 28	-94,637	0	0,4867 94	1,6096 3
12	265,1 73	- 14,1117	0	502.97 1,04	46,746 8	0,4407 98	-88,8388	0	0,4908 51	1,5652 3
12	268,3 67	- 12,5369	0	486.54 5,99	54,308 4	0,4952 55	-81,2785	0	0,4948 41	1,5140 1
12	272,2 01	-10,632	0	462.59 9,51	63,436 9	0,5652 29	-72,1006	0	0,4986 58	1,4598 5
12	276,8 02	- 8,32847	0	430.23 8,43	74,376 3	0,6571 1	-61,497	0	0,5022 19	1,4062 8
12	282,3 22	- 5,54667	0	391.58 2,15	87,378 3	0,7748 08	-50,1775	0	0,5054 46	1,3573 7
12	288,9 47	-2,1884	0	346.18 3,48	102,65	0,9325 74	-38,1503	0	0,5083 72	1,3131 4
12	296,8 97	1,86373	0	295.69 4,07	120,36 4	1,1482 2	-25,9223	0	0,5109 8	1,2748 7
12	306,4 36	6,74978	0	243.64 2,82	140,64 2	1,4397 9	-14,5243	0	0,5132 61	1,2445 9
12	317,8 84	12,684	0	194.52 7,84	163,60 3	1,7537 6	-4,95415	0	0,5337 2	1,2229 3
12	331,6 21	20,4207	0	144.79 1,76	188,50 4	2,0864 7	3,89289	0	0,5940 02	1,2048 8
12	335,1 19	22,5288	0	132.68 1,40	194,23 9	2,1858 6	6,20687	0	0,6114 1	1,1996 4
12	335,1 19	22,5288	0	132.68 1,40	194,23 9	2,1858 5	6,20687	0	0,6114 14	1,1996 4
12	341,2 85	26,443	0	110.36 7,47	199,34 7	2,3920 8	10,1596	0	0,6463 59	1,1908 2



12	341,285	26,443	0	110.367,47	199,347	2,39208	10,1596	0	0,646358	1,19082
12	348,105	30,9919	0	90.384,66	207,292	2,6492	13,1231	0	0,687438	1,18551
12	367,887	45,6572	0	58.452,03	219,65	3,33707	17,138	0	0,789234	1,18006
12	391,624	65,3775	0	44.063,29	221,777	3,92174	18,854	0	0,869184	1,17788
12	420,11	91,4548	0	32.940,23	223,048	4,65674	20,7609	0	0,962582	1,17449
12	454,292	125,989	0	25.575,92	224,679	5,39368	22,5997	0	1,05085	1,17045
12	494,886	170,451	0	20.511,54	226,733	6,17035	23,6384	0	1,13853	1,16877
12	495,31	170,935	0	20.467,48	226,755	6,17838	23,6459	0	1,13942	1,16876
12	544,533	229,479	0	16.239,98	229,402	7,09878	24,2554	0	1,23762	1,16839
12	603,6	305,844	0	12.774,92	232,779	8,18147	24,6007	0	1,34669	1,16869
12	674,48	405,645	0	9.961,6	237,093	9,45681	24,7911	0	1,4678	1,16928
12	716,563	468,851	0	8.728,95	239,778	10,2034	24,8521	0	1,53557	1,16963
13	299,381	-22,5288	0	1,00	0,00177245	0,925914	24,6396	0	0,519559	1,17396
13	299,481	-22,4788	0	186.736,33	2,25965	0,00705598	-41,2843	0	0,497925	1,42298
13	299,581	-22,429	0	196.207,54	3,20233	0,0131496	-44,6648	0	0,498019	1,43859
13	299,681	-22,3792	0	198.348,91	3,93457	0,019344	-45,3286	0	0,498113	1,44154
13	299,781	-22,3294	0	198.984,79	4,55571	0,0255737	-45,5305	0	0,4982	1,44245
13	299,881	-22,2796	0	199.099,05	5,10928	0,031793	-45,5924	0	0,498287	1,44278
13	299,9	-	0	198.97	5,6144	0,0380	-45,5959	0	0,4983	1,4428

	81	22,2297		0,90		003			75	8
13	300,0	-	0	198.71	6,0836	0,0441	-45,5711	0	0,4984	1,4428
	81	22,1799		4,98	3	852			63	7
13	300,1	-22,13	0	198.38	6,5243	0,0503	-45,531	0	0,4985	1,4428
	81			6,13	6	541			51	1
13	300,2	-	0	198.01	6,9414	0,0565	-45,4825	0	0,4986	1,4427
	81	22,0802		5,06	8	126			39	2
13	300,3	-	0	197.62	7,3391	0,0626	-45,4331	0	0,4987	1,4426
	81	22,0303		6,38	1	554			24	3
13	300,4	-	0	197.34	7,7202	0,0687	-45,4457	0	0,4987	1,4428
	81	21,9804		9,54	6	252			96	7
13	300,5	-	0	197.37	8,0875	0,0746	-45,6138	0	0,4988	1,4439
	81	21,9305		1,83	2	028			41	3
13	300,6	-	0	197.74	8,4430	0,0802	-45,9647	0	0,4988	1,4459
	81	21,8807		9,28	8	125			55	5
13	300,7	-	0	198.43	8,7885	0,0855	-46,4719	0	0,4988	1,4487
	81	21,8308		4,33	6	393			47	9
13	300,8	-	0	199.33	9,1249	0,0906	-47,0846	0	0,4988	1,4522
	81	21,7809		3,86	9	131			3	1
13	300,9	-21,731	0	200.37	9,4531	0,0954	-47,7635	0	0,4988	1,4559
	81			5,89	4	654			12	8
13	301,0	-	0	201.51	9,7737	0,1001	-48,4818	0	0,4987	1,4599
	81	21,6811		0,09	2	2			98	8
13	301,1	-	0	202.71	10,087	0,1045	-49,2276	0	0,4987	1,4641
	81	21,6312		1,17	2	98			86	5
13	301,2	-	0	203.95	10,394	0,1089	-49,9908	0	0,4987	1,4684
	81	21,5814		9,18	2	14			76	3
13	301,3	-	0	205.23	10,695	0,1130	-50,7639	0	0,4987	1,4727
	81	21,5315		8,38	5	79			68	9
13	301,5	-	0	206.79	11,050	0,1178	-51,696	0	0,4987	1,4780
	01	21,4716		6,57	4	89			62	8
13	301,6	-	0	208.67	11,467	0,1234	-52,8111	0	0,4987	1,4844
	45	21,3998		8,03	7	12			6	5
13	301,8	-	0	210.92	11,957	0,1297	-54,1327	0	0,4987	1,4920
	17	21,3136		6,30	5	18			66	7
13	302,0	-	0	213.58	12,531	0,1368	-55,6826	0	0,4987	1,5011
	25	21,2102		0,25	3	73			84	3
13	302,2	-	0	216.67	13,202	0,1449	-57,4787	0	0,4988	1,5117

	74	21,0861	0,41	4	4				22	7
13	302,5 72	- 20,9371	0	220.21 4,41	13,985 9	0,1539 8	-59,5332	0	0,4988 87	1,5241 7
13	302,9 3	- 20,7583	0	224.30 1,90	14,898 2	0,1640 81	-61,9017	0	0,4989 92	1,5387 6
13	303,3 6	- 20,5437	0	228.79 3,47	15,963 5	0,1752 21	-64,5099	0	0,4991 38	1,5552 2
13	303,8 76	- 20,2862	0	233.58 0,77	17,207 3	0,1874 39	-67,3146	0	0,4993 4	1,5734 3
13	304,4 96	- 19,9769	0	238.62 9,33	18,656 5	0,2008 94	-70,2715	0	0,4996 17	1,5931 7
13	305,2 39	- 19,6055	0	243.80 9,06	20,339 6	0,2161 77	-72,9716	0	0,4999 8	1,6113 5
13	306,1 3	- 19,1595	0	248.91 1,26	22,292 4	0,2338 39	-75,1772	0	0,5004 41	1,6259 8
13	307,2	- 18,6238	0	253.99 6,60	24,560 4	0,2539 37	-76,8951	0	0,5009 94	1,6368 6
13	308,4 84	- 17,9802	0	259.72 0,86	27,218 5	0,2751 28	-78,4279	0	0,5016 14	1,6459 3
13	310,0 25	- 17,2067	0	265.72 2,19	30,438 6	0,2969 14	-79,4815	0	0,5023 8	1,6508 4
13	311,8 74	-16,277	0	271.03 2,28	34,408	0,3204 35	-79,4508	0	0,5033 62	1,6469 4
13	314,0 92	- 15,1589	0	274.63 2,71	39,292	0,3479 45	-77,8022	0	0,5045 65	1,6305
13	316,7 55	- 13,8137	0	275.14 1,99	45,273 4	0,3825 53	-74,0849	0	0,5059 72	1,5995
13	319,9 49	- 12,1947	0	271.26 4,63	52,573 8	0,4275 69	-68,192	0	0,5075 26	1,5557 3
13	323,7 83	- 10,2458	0	262.03 9,39	61,457 7	0,4866 68	-60,3319	0	0,5091 41	1,5037 1
13	328,3 84	- 7,89976	0	247.20 0,95	72,222 8	0,5644 11	-50,9684	0	0,5107 07	1,4489 2
13	333,9 04	- 5,07607	0	226.92 0,09	85,180 5	0,6667 8	-40,6254	0	0,5122 27	1,3957 9
13	340,5 29	- 1,67777	0	202.06 5,94	100,64 4	0,8020 61	-29,8757	0	0,5136 57	1,3473 8
13	348,4	2,41108	0	174.03	118,92	0,9817	-19,3758	0	0,5149	1,3057

	79			5,06	2	94			61	5
13	358,0 18	7,3296	0	144.36 5,05	140,35 8	1,2204 9	-9,75083	0	0,5161 74	1,2718 8
13	369,4 66	13,2451	0	114.91 3,69	165,35 9	1,5366 2	-1,41464	0	0,5172 65	1,2452 8
13	383,2 03	20,5283	0	86.284, 13	193,88 3	1,8465	6,12302	0	0,5536 31	1,2223 4
13	386,7 69	22,5288	0	79.117, 89	200,73 3	1,9281 9	8,1505	0	0,5683 9	1,2158 7
13	386,7 69	22,5288	0	79.117, 89	200,73 3	1,9282	8,1505	0	0,5683 89	1,2158 7
13	399,6 87	30,5095	0	55.192, 15	209,77 3	2,2914 4	14,1852	0	0,6307 62	1,1973 8
13	409,8 59	37,4586	0	41.860, 79	219,07 6	2,6293 2	16,7374	0	0,6847 33	1,1908 2
13	409,8 59	37,4586	0	41.860, 79	219,07 6	2,6293 2	16,7374	0	0,6847 33	1,1908 2
13	419,4 69	44,2801	0	33.169, 27	231,22	2,9558 5	18,1847	0	0,7342 35	1,1875 2
13	441,3 64	61,4376	0	22.465, 82	248,72 2	3,6223	19,8212	0	0,8288 58	1,1840 8
13	443,2 06	62,9726	0	21.903, 58	249,56	3,6729 9	19,9132	0	0,8357 52	1,1838 8
13	471,6 92	88,2055	0	16.133, 11	253,24 8	4,4208 8	22,3435	0	0,9333 81	1,1766 4
13	505,8 74	121,83	0	12.508, 02	254,80 8	5,1770 9	23,5495	0	1,0255	1,1734 5
13	546,8 92	165,735	0	9.964,5 7	256,84 2	5,9494 1	24,1989	0	1,1140 8	1,172
13	549,0 48	168,141	0	9.857,2 9	256,95 2	5,9895 6	24,2218	0	1,1185 5	1,1719 6
14	562,1 08	- 22,5288	0	1,00	0,0017 7245	0,9259 14	24,6396	0	0,5195 59	1,1739 6
14	562,2 08	-22,477	0	16.401, 67	2,2763 6	0,0061 8166	-18,2969	0	0,5180 07	1,3833 2
14	562,3 08	- 22,4252	0	16.943, 34	3,2485 2	0,0116 214	-21,5819	0	0,5180 26	1,4013 8

14	562,4 08	- 22,3734	0	17.031, 82	3,9955 6	0,0171 768	-22,2978	0	0,5180 35	1,4053 8
14	562,5 08	- 22,3216	0	17.039, 70	4,6292 8	0,0227 568	-22,5623	0	0,5180 42	1,4068 8
14	562,6 08	- 22,2698	0	17.022, 58	5,1911 6	0,0283 43	-22,6869	0	0,5180 47	1,4076
14	562,7 08	-22,218	0	16.995, 12	5,7035 2	0,0339 212	-22,7543	0	0,5180 53	1,408
14	562,8 08	- 22,1662	0	16.962, 58	6,1782 1	0,0394 934	-22,7939	0	0,5180 58	1,4082 4
14	562,9 08	- 22,1144	0	16.927, 37	6,6229 3	0,0450 607	-22,8183	0	0,5180 64	1,4084
14	563,0 08	- 22,0626	0	16.890, 76	7,0436 5	0,0506 196	-22,8336	0	0,5180 69	1,4085
14	563,1 08	- 22,0107	0	16.853, 26	7,4448 1	0,0561 661	-22,8433	0	0,5180 74	1,4085 8
14	563,2 08	- 21,9589	0	16.815, 19	7,8295 8	0,0616 987	-22,8493	0	0,5180 79	1,4086 3
14	563,3 08	- 21,9071	0	16.776, 80	8,1999 8	0,0672 213	-22,8527	0	0,5180 84	1,4086 7
14	563,4 08	- 21,8553	0	16.738, 17	8,5580 1	0,0727 319	-22,8542	0	0,5180 89	1,4087
14	563,5 08	- 21,8035	0	16.703, 82	8,9046 9	0,0782 088	-22,874	0	0,5180 94	1,4088 3
14	563,6 08	- 21,7517	0	16.693, 13	9,2416	0,0835 177	-22,9981	0	0,5180 97	1,4095 5
14	563,7 08	- 21,6999	0	16.707, 69	9,5696 6	0,0886 201	-23,2341	0	0,5180 99	1,4108 9
14	563,8 08	- 21,6481	0	16.746, 28	9,8900 7	0,0934 913	-23,5776	0	0,5180 99	1,4128 3
14	563,9 08	- 21,5963	0	16.802, 37	10,203 5	0,0981 572	-23,9986	0	0,5180 98	1,4152 1
14	564,0 08	- 21,5445	0	16.874, 70	10,510 7	0,1026 07	-24,4922	0	0,5180 97	1,4180 1
14	564,1 08	- 21,4927	0	16.957, 10	10,812 3	0,1068 81	-25,0298	0	0,5180 95	1,4210 7
14	564,2 28	- 21,4305	0	17.066, 37	11,167 2	0,1117 91	-25,7203	0	0,5180 94	1,4250 1



14	564,3 72	- 21,3559	0	17.207, 45	11,584	0,1174 04	-26,5922	0	0,5180 93	1,4300 2
14	564,5 45	- 21,2664	0	17.387, 19	12,072 1	0,1237 71	-27,6855	0	0,5180 91	1,4363 4
14	564,7 52	- 21,1589	0	17.611, 61	12,642 7	0,1309 39	-29,0373	0	0,5180 91	1,4442 3
14	565,0 01	-21,03	0	17.886, 11	13,309 2	0,1389 35	-30,683	0	0,5180 91	1,4539 4
14	565,2 99	- 20,8753	0	18.216, 75	14,086 5	0,1477 65	-32,6655	0	0,5180 93	1,4658
14	565,6 58	- 20,6897	0	18.607, 82	14,992 3	0,1574 17	-35,0209	0	0,5180 96	1,4801 4
14	566,0 88	- 20,4669	0	19.062, 03	16,046 3	0,1678 74	-37,7791	0	0,5181 02	1,4972 9
14	566,6 04	- 20,1996	0	19.579, 52	17,273 1	0,1790 79	-40,9593	0	0,5181 12	1,5175 5
14	567,2 23	- 19,8787	0	20.157, 03	18,703 4	0,1909 53	-44,5653	0	0,5181 25	1,5411 9
14	567,9 66	- 19,4938	0	20.784, 51	20,370 3	0,2036 74	-48,3765	0	0,5181 45	1,5669 9
14	568,8 57	- 19,0318	0	21.444, 47	22,308 6	0,2178 26	-51,9033	0	0,5181 7	1,5915 9
14	569,9 27	- 18,4774	0	22.108, 04	24,558 1	0,2340 89	-54,8178	0	0,5182 03	1,6124 5
14	571,2 11	-17,812	0	22.749, 42	27,164 7	0,2530 14	-56,9938	0	0,5182 44	1,6283
14	572,7 52	- 17,0135	0	23.474, 87	30,238	0,2723 82	-58,9781	0	0,5182 88	1,6429 4
14	574,6 01	- 16,0552	0	24.255, 39	34,047 9	0,2910 95	-60,406	0	0,5183 44	1,6534 8
14	576,8 19	- 14,9051	0	24.929, 92	38,769 9	0,3119 19	-60,3293	0	0,5184 21	1,6524 6
14	579,4 82	- 13,5248	0	25.332, 78	44,567 6	0,3382 56	-58,1349	0	0,5185 14	1,6353 3
14	582,6 77	- 11,8681	0	25.307, 33	51,658 9	0,3735 07	-53,5957	0	0,5186 21	1,6015 1
14	586,5 1	- 9,87957	0	24.734, 18	60,329 9	0,4210 3	-46,919	0	0,5187 36	1,5545 4

14	591,1 11	- 7,49284	0	23.523, 82	70,914 1	0,4850 01	-38,6309	0	0,5188 54	1,5001 8
14	596,6 32	- 4,62812	0	21.689, 30	83,795 5	0,5701 15	-29,5082	0	0,5189 7	1,4447 9
14	603,2 56	-1,1897	0	19.331, 15	99,388 6	0,6822 94	-20,3255	0	0,5190 83	1,3930 4
14	611,2 06	2,93727	0	16.649, 84	118,15 8	0,8282 04	-11,7951	0	0,5191 88	1,3479 6
14	620,7 46	7,89057	0	13.890, 88	140,63 4	1,0166	-4,28664	0	0,5192 78	1,3100 6
14	632,1 93	13,8355	0	11.158, 33	167,38 6	1,2608 7	2,18272	0	0,5193 66	1,2783
14	645,9 3	20,9708	0	8.372,3 8	198,61 1	1,6053 4	8,83149	0	0,5194 63	1,2462 3
14	648,9 22	22,5288	0	7.779,5 7	205,15 2	1,6793 4	10,3048	0	0,5243 3	1,2391 2
14	648,9 22	22,5288	0	7.779,5 7	205,15 2	1,6793 5	10,3048	0	0,5243 27	1,2391 2
14	648,9 22	22,529	0	7.779,4 8	205,15 2	1,6793 6	10,305	0	0,5243 29	1,2391 2
14	662,4 15	30,3736	0	5.356,8 2	209,48 5	1,9878 1	15,6189	0	0,5797 15	1,2134 6
14	682,1 96	44,0089	0	3.205,2 1	226,15 2	2,5384 5	18,9853	0	0,6705 8	1,1972 8
14	699,4 28	57,3628	0	2.163,1 2	244,49 2	3,0655 3	20,3599	0	0,7502 94	1,1908 2
14	699,4 28	57,3628	0	2.163,1 2	244,49 2	3,0653 3	20,3599	0	0,7503 43	1,1908 2
14	705,9 34	62,3456	0	1.885,1 9	253,62 4	3,2828 2	21,3463	0	0,7816 35	1,1869 5
14	709,0 17	64,779	0	1.768,5 3	257,40 1	3,3907 7	21,7232	0	0,7968 58	1,1854 9
14	734,4 19	86,6247	0	1.125,6 9	277,89 2	4,3297 2	23,4963	0	0,9218 67	1,1786 8
14	768,6 01	120,442	0	803,05 7	285,00 5	5,2914 5	24,2457	0	1,0389 2	1,1758 5
14	809,6 2	164,916	0	641,97 5	287,08 5	6,0782 5	24,5805	0	1,1283 8	1,1746



14	814,9	170,936	0	624,95	287,36	6,1787	24,6089	0	1,1394	1,1744
	28					2			5	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	Continuou s	0	0	kg/s	68,255	68,2008		0,054219 6
2	Continuou s	0,22	-0,372445	kg/s	68,255	68,2008		2,30858
3	Continuou s	47,796	-13,6682	kg/s	68,255	68,2008		54,2942
4	Continuou s	82,765	-16,0407	kg/s	68,255	68,2008		55,4336
5	Continuou s	116,65 4	-17,733	kg/s	68,255	68,2008		57,389
6	Continuou s	149,56 9	-19,036	kg/s	68,255	68,2008		58,6374
7	Continuou s	181,78 5	-20,0872	kg/s	68,255	68,2008		59,5461
8	Continuou s	213,54 5	-20,9855	kg/s	68,255	68,2008		60,2608
9	Continuou s	244,45 3	-21,7443	kg/s	68,255	68,2008		55,1703
10	Continuou s	244,93 8	-21,7559	kg/s	68,255	68,2008		54,6139

11	Continuou s	244,93 9	-21,7559	kg/s	0	0	54,559 6	54,5596
12	Continuou s	257,78 2	-21,9685	kg/s	0	0		39,617
13	Continuou s	290,95 4	-21,9685	kg/s	0	0		22,8964
14	Continuou s	511,35 6	-21,9685	kg/s	0	0		1,77219

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/Line height [m]	C/Line conc [ppm]	Effective width [m]	Effective depth [m]	C/Line vapour temperature [degC]	C/Line liquid fraction	Centroid velocity [m/s]	C/Line cloud density [kg/m ³]
1	0	0	0	999.20 6,39	0,05954 25	0,0285 371	-160,196	0	15,716 7	2,0328 4
1	0,01	0,12891	0	903.26 7,47	0,07167 11	0,0454 907	-139,183	0	10,910 2	1,7829 8
1	0,02	0,22664 6	0	846.98 0,62	0,08110 6	0,0584 319	-125,835	0	8,8490 2	1,6631
1	0,03	0,30872 2	0	807.78 5,62	0,09025 3	0,0681 547	-115,922	0	7,6502 9	1,5867 3
1	0,04	0,38103 8	0	778.27 7,13	0,09959 77	0,0754 16	-107,981	0	6,8421 9	1,5313 7
1	0,05	0,44644 2	0	755.05 7,72	0,10895	0,0809 897	-101,331	0	6,2521 2	1,4881 6
1	0,06	0,50658 3	0	736.18 3,99	0,11819 7	0,0853 808	-95,577	0	5,7990 8	1,4527
1	0,07	0,56265 1	0	719.60 6,20	0,12726 3	0,0892 261	-90,3199	0	5,4319 7	1,4219 1
1	0,08	0,61539 9	0	703.61 8,36	0,13610 6	0,0930 563	-85,2417	0	5,1215 5	1,3939 1



1	0,09	0,665306	0	688.156,50	0,144702	0,0968586	-80,3663	0	4,85696	1,36857
1	0,1	0,71277	0	673.262,47	0,153031	0,100583	-75,7584	0	4,62998	1,34603
1	0,11	0,758121	0	658.889,11	0,161078	0,104243	-71,405	0	4,43362	1,32593
1	0,12	0,80161	0	645.011,38	0,168833	0,107842	-67,2885	0	4,26288	1,30794
1	0,13	0,843468	0	631.606,99	0,176285	0,111392	-63,3917	0	4,11353	1,29176
1	0,14	0,88391	0	618.655,26	0,183425	0,114911	-59,699	0	3,982	1,27716
1	0,15	0,92312	0	606.138,32	0,190242	0,118415	-56,197	0	3,86539	1,26393
1	0,16	0,961259	0	594.040,10	0,196728	0,121924	-52,8734	0	3,76137	1,25192
1	0,17	0,99843	0	582.346,85	0,202873	0,125443	-49,7184	0	3,66835	1,24099
1	0,18	1,03473	0	571.044,98	0,208666	0,12898	-46,7233	0	3,58494	1,23102
1	0,19	1,07024	0	560.121,57	0,214095	0,132545	-43,8802	0	3,51002	1,22192
1	0,2	1,10501	0	549.564,24	0,219143	0,136146	-41,1829	0	3,44273	1,21361
1	0,212	1,14588	0	537.362,54	0,224675	0,14054	-38,1294	0	3,37073	1,20457
1	0,2264	1,19384	0	523.370,31	0,230496	0,145979	-34,7162	0	3,295	1,19494
1	0,24368	1,25008	0	507.478,55	0,236434	0,152722	-30,9601	0	3,21656	1,18493
1	0,264416	1,31593	0	489.568,70	0,243192	0,160456	-26,8964	0	3,13725	1,17485
1	0,289299	1,39297	0	469.011,89	0,251753	0,168935	-22,5078	0	3,0584	1,16482
1	0,319159	1,48312	0	445.248,59	0,262659	0,178287	-17,8241	0	2,98098	1,15543
1	0,354991	1,58861	0	418.572,73	0,276143	0,188457	-13,0374	0	2,90755	1,14725



1	0,397 989	1,71217	0	389.12 6,53	0,29276	0,1993 83	-8,32303	0	2,8400 2	1,1408 7
1	0,449 587	1,8572	0	357.21 0,70	0,31311 3	0,2110 91	-3,84982	0	2,7799 6	1,1367 1
1	0,511 504	2,02772	0	323.31 9,88	0,33788 5	0,2236 01	0,125263	0	2,7287	1,1354 4
1	0,585 805	2,22879	0	288.13 8,59	0,36782 9	0,2375 68	3,96971	0	2,6867 5	1,1352 4
1	0,674 966	2,46675	0	252.46 2,00	0,40386 3	0,2533 37	7,38116	0	2,6537 7	1,1368 7
1	0,781 959	2,74923	0	217.25 2,15	0,44701 2	0,2715 83	10,338	0	2,6290 8	1,1399 7
1	0,910 351	3,08557	0	183.50 9,19	0,49844 3	0,2931 57	12,8465	0	2,6114 8	1,1441
1	1,064 42	3,48693	0	152.15 0,57	0,55953 5	0,3190 24	14,9298	0	2,5996 4	1,1488 1
1	1,249 31	3,96682	0	123.89 9,56	0,63188 8	0,3502 74	16,6246	0	2,5920 9	1,1536 9
1	1,333 9	4,18601	0	113.50 2,05	0,66465 2	0,3646 61	17,208	0	2,5899 6	1,1556 2
1	1,333 9	4,18601	0	113.50 2,05	0,66465 2	0,3646 61	17,208	0	2,5899 6	1,1556 2
1	1,471 17	4,54134	0	99.133, 58	0,71697 5	0,3886 08	17,9788	0	2,5875 4	1,1584 3
1	1,737 4	5,22985	0	77.804, 43	0,81479 8	0,4382 62	19,2339	0	2,5849 3	1,1622 3
1	2,056 88	6,05543	0	59.799, 27	0,92698	0,5047 96	21,1486	0	2,5835 1	1,1625 1
1	2,440 26	7,04572	0	45.037, 42	1,053	0,5929 26	22,4936	0	2,5827 8	1,1636 3
1	2,900 31	8,23384	0	33.290, 55	1,18807	0,7132 63	23,4039	0	2,5824 1	1,1651 4
1	3,452 37	9,65943	0	24.285, 03	1,33441	0,8723 47	23,9961	0	2,5822 4	1,1667
1	4,114 84	11,3701	0	17.633, 73	1,50974	1,0632 6	24,3705	0	2,5821 5	1,1681
1	4,909 81	13,4228	0	12.747, 85	1,71984	1,2921 6	24,6064	0	2,5821 1	1,1692 8

1	5,863 77	15,8861	0	9.178,2 2	1,97108	1,5667 5	24,7546	0	2,5820 9	1,1702 4
1	7,008 53	18,9074	0	6.513,3 4	2,27798	1,8292 2	24,8495	0	2,6974 6	1,1710 1
1	8,121 14	21,9687	0	4.818,4 3	2,58765	2,0942 1	24,9016	0	2,8043 1	1,1715 4
1	8,382 23	22,7052	0	4.553,7 8	2,66194	2,1587 2	24,9104	0	2,8287 8	1,1716 4
1	10,03 07	27,4931	0	3.221,8 1	3,14331	2,5749	24,948	0	2,9755 9	1,1721 2
1	12,00 88	33,5417	0	2.241,8 3	3,74754	3,0992 8	24,9705	0	3,1382 4	1,1724 7
1	13,99 85	39,9382	0	1.614,1 2	4,38223	3,6530 8	24,982	0	3,2898	1,1727
1	14,38 26	41,2072	0	1.529,1 3	4,50765	3,7629 1	24,9836	0	3,3179	1,1727 3
1	17,23 11	50,9441	0	1.037,2 4	5,46506	4,6070 9	24,991	0	3,5164	1,1729
1	20,64 93	63,3416	0	691,75	6,67261	5,6810 1	24,9951	0	3,7342 8	1,1730 2
1	24,75 12	79,1559	0	448,09	8,19682	7,0495 7	24,9974	0	3,9729 5	1,1731
1	25,78 06	83,2751	0	401,23	8,59117	7,4061 1	24,9977	0	4,0295 9	1,1731 1
2	0,22	- 0,37244 5	0	1,00	0,00177 245	0,1863 1	24,6396	0	2,5820 8	1,1739 6
2	0,32	- 0,28380 7	0	875.79 2,64	0,61794 6	0,0845 829	-139,687	0	0,8232 64	1,8168 2
2	0,42	- 0,19779 1	0	866.46 5,73	0,92860 7	0,1376 35	-138,064	0	0,8984 76	1,8027 1
2	0,52	- 0,10418	0	854.55 9,72	1,19563	0,1804 63	-136,141	0	0,9729 21	1,7873 1
2	0,62	- 0,00336	0	842.54 7,62	1,44079	0,2167 54	-134,18	0	1,0426 5	1,7720 1

616

2	0,623 225	3,85555 E-17	0	842.16 4,92	1,44838	0,2178 62	-134,112	0	1,0448 1	1,7714 5
2	0,623 225	3,85555 E-17	0	870.09 0,89	1,31842	0,1126 51	-138,864	0	2,3200 8	1,8105 4
2	0,72 8	0,19204 8	0	847.55 9,58	1,56988	0,2067 86	-135,026	0	1,7796 6	1,7786 9
2	0,82 2	0,36072 2	0	831.76 4,39	1,78965	0,2749 17	-131,808	0	1,6205 4	1,7507 2
2	0,92 6	0,51958 6	0	817.64 1,99	2,00866	0,3235 28	-128,391	0	1,5645 5	1,7202
2	1,02 3	0,67553 3	0	803.41 2,11	2,23736	0,3576 14	-124,582	0	1,5547 3	1,6867 2
2	1,12 9	0,83182 9	0	788.48 7,65	2,46967	0,3822 6	-120,306	0	1,5711 9	1,6504 4
2	1,22 2	0,99059 2	0	772.45 3,81	2,70184	0,4004 52	-115,498	0	1,6055 3	1,6116 3
2	1,32 8	1,15349 8	0	754.81 6,76	2,93091	0,4138 32	-110,038	0	1,6542 8	1,5701 2
2	1,42 7	1,32197 7	0	734.68 8,41	3,15405	0,4228 57	-103,611	0	1,7178 7	1,5244 9
2	1,52 7	1,49786 7	0	709.64 3,98	3,36735	0,4257 59	-95,292	0	1,8045 7	1,4699 5
2	1,524 98	1,50686 98	0	708.15 8,87	3,3776	0,4256 33	-94,7852	0	1,8099 4	1,4667 7
2	1,524 98	1,50686 98	0	708.15 8,87	3,3776	0,4256 33	-94,7852	0	1,8099 4	1,4667 7
2	1,62 1	1,68432 1	0	676.58 0,90	3,56133	0,4218 55	-84,0339	0	1,9224 1	1,4036 8
2	1,72 7	1,88189 7	0	642.96 3,23	3,74025	0,4238 55	-73,1861	0	2,0286 7	1,3484 6
2	1,82 1	2,0894 1	0	609.67 8,11	3,9001	0,4311 13	-62,9928	0	2,1211 1	1,3031
2	1,92 9	2,30554 9	0	577.33 0,59	4,04042	0,4428 85	-53,5743	0	2,1996 9	1,2660 6
2	2,02 4	2,52892 4	0	546.38 1,23	4,16096	0,4585 73	-45,0105	0	2,2651 4	1,2360 5
2	2,12 2	2,75824 2	0	517.14	4,26104	0,4777	-37,3442	0	2,3188	1,2119



				9,48		26			8	3
2	2,22	2,99236	0	489.82 4,48	4,3388	0,5001 26	-30,5866	0	2,3626 6	1,1927 8
2	2,231 71	3,02005	0	486.75 4,68	4,3463	0,5029 63	-29,8543	0	2,3672 2	1,1908 2
2	2,231 71	3,02005	0	486.75 4,68	4,3463	0,5029 63	-29,8543	0	2,3672 2	1,1908 2
2	2,34	3,27846	0	459.73 2,03	4,39696	0,5314 75	-23,6562	0	2,4045 6	1,1752 4
2	2,484	3,62758	0	425.16 3,98	4,44808	0,5749 61	-16,5969	0	2,4435 7	1,1602 1
2	2,656 8	4,05294	0	387.07 4,96	4,50832	0,6308 05	-9,90489	0	2,4777 8	1,1490 7
2	2,864 16	4,56983	0	348.39 5,51	4,57723	0,6979 98	-4,13994	0	2,5058 1	1,1423 9
2	3,112 99	5,19619	0	311.22 2,04	4,65308	0,7756 45	0,436516	0	2,5276 7	1,1399 6
2	3,411 59	5,95352	0	276.75 2,00	4,73558	0,8645 46	4,36366	0	2,5440 7	1,1389 5
2	3,769 91	6,86738	0	244.56 5,56	4,82954	0,9667 88	7,58853	0	2,5561 3	1,1396 9
2	4,199 89	7,96853	0	213.62 1,73	4,94234	1,0894 2	10,311	0	2,5648 2	1,1418 1
2	4,715 87	9,2936	0	184.34 5,94	5,07816	1,2368 1	12,5951	0	2,5709 2	1,1448 9
2	5,335 04	10,8868	0	157.17 6,35	5,24145	1,4137 6	14,4941	0	2,5750 6	1,1485 6
2	6,078 05	12,8037	0	132.36 1,76	5,43778	1,6132 5	16,062	0	2,5991 6	1,1525 1
2	6,969 66	15,1607	0	109.35 0,01	5,6784	1,8168 9	17,3826	0	2,6893 8	1,1566 8
2	8,039 59	18,0943	0	88.248, 61	5,97673	2,0687 6	18,4863	0	2,7930 6	1,1609 1
2	9,323 51	21,7562	0	69.499, 88	6,34741	2,3865 6	19,9884	0	2,9106 1	1,1628 7
2	10,86 42	26,3441	0	53.391, 46	6,8093	2,7870 2	21,5983	0	3,0435	1,1635 4
2	12,71	32,1098	0	39.940, 7,38613	7,38613	3,2887	22,7596	0	3,1918	1,1648



	31			15		4			3	1
2	14,93 17	39,3767	0	29.119, 04	8,10794	3,9197 6	23,566	0	3,3568 7	1,1663 2
2	16,81 31	45,8169	0	22.776, 40	8,74324	4,4783 4	23,9798	0	3,4877 7	1,1674 3
2	17,59 4	48,5655	0	20.665, 69	9,01315	4,7185 9	24,1069	0	3,5404 8	1,1678 4
2	20,78 88	60,2058	0	14.303, 94	10,1495	5,7285 8	24,4574	0	3,7432 3	1,1692
2	24,62 26	74,9902	0	9.665,7 3	11,5781	7,0093 5	24,6776	0	3,9664 5	1,1703 3
2	26,68 17	83,2743	0	7.983,9 8	12,3723	7,7265 4	24,7493	0	4,0788 3	1,1707 7
3	47,79 6	- 13,6682	0	1,00	0,00177 245	0,1863 1	24,6396	0	2,5820 8	1,1739 6
3	47,89 6	- 13,4374	0	340.81 4,10	3,85842	0,0223 853	-73,8133	0	2,3047 7	1,5535 6
3	47,99 6	- 13,2069	0	340.45 4,18	5,46591	0,0445 347	-73,7305	0	2,3061 8	1,5531 5
3	48,09 6	- 12,9762	0	339.62 5,37	6,70377	0,0666 389	-73,6191	0	2,3076 1	1,5528 3
3	48,19 6	- 12,7453	0	338.74 6,41	7,75082	0,0887 155	-73,509	0	2,3089 5	1,5525 5
3	48,29 6	- 12,5144	0	337.82 4,48	8,6836	0,1106 27	-73,3959	0	2,3103 4	1,5522 7
3	48,39 6	- 12,2833	0	336.87 5,21	9,52628	0,1325 38	-73,2804	0	2,3117 6	1,552
3	48,49 6	-12,052	0	335.93 3,12	10,3045	0,1543 7	-73,1669	0	2,3131 2	1,5517 4
3	48,59 6	- 11,8207	0	334.98 7,20	11,0332	0,1761 07	-73,0534	0	2,3144 9	1,5514 8
3	48,69 6	- 11,5891	0	334.03 2,03	11,7217	0,1977 37	-72,939	0	2,3158 7	1,5512 2
3	48,79 6	- 11,3575	0	333.07 2,07	12,3759	0,2192 92	-72,8242	0	2,3172 5	1,5509 6
3	48,89 6	- 11,1257	0	332.11 0,89	13,0004	0,2407 9	-72,7094	0	2,3186 3	1,5507



3	48,996	-10,8938	0	331.149,39	13,5993	0,262228	-72,5946	0	2,32	1,55044
3	49,096	-10,6617	0	330.189,46	14,1755	0,283618	-72,4801	0	2,32137	1,55018
3	49,196	-10,4295	0	329.231,35	14,7322	0,304953	-72,3659	0	2,32273	1,54993
3	49,296	-10,1971	0	328.273,65	15,2713	0,326227	-72,2518	0	2,32409	1,54967
3	49,396	-9,96466	0	327.315,50	15,7956	0,347414	-72,1376	0	2,32544	1,54942
3	49,496	-9,73205	0	326.356,10	16,3055	0,368541	-72,0234	0	2,32679	1,54917
3	49,596	-9,4993	0	325.394,38	16,8032	0,389581	-71,9088	0	2,32815	1,54891
3	49,696	-9,26642	0	324.430,58	17,2893	0,410546	-71,7941	0	2,3295	1,54866
3	49,796	-9,0334	0	323.463,81	17,7655	0,431417	-71,679	0	2,33086	1,54841
3	49,916	-8,7536	0	322.300,56	18,3239	0,45637	-71,5405	0	2,33249	1,54819
3	50,06	-8,41759	0	320.896,65	18,9772	0,486166	-71,3734	0	2,33445	1,54773
3	50,2328	-8,01398	0	319.195,62	19,7361	0,521651	-71,1818	0	2,33689	1,54737
3	50,4402	-7,52902	0	317.146,64	20,6119	0,562928	-71,0315	0	2,34028	1,54756
3	50,689	-6,94623	0	315.180,72	21,6255	0,610373	-71,0134	0	2,34394	1,54871
3	50,9876	-6,24578	0	313.425,36	22,7943	0,665033	-71,0035	0	2,34779	1,54979
3	51,3459	-5,40379	0	311.825,45	24,138	0,728176	-70,8737	0	2,35199	1,54984
3	51,7759	-4,39146	0	310.263,67	25,6758	0,801304	-70,5254	0	2,35679	1,54818
3	52,2919	-3,17394	0	308.532,51	27,4338	0,886179	-69,8287	0	2,36251	1,54397
3	52,9111	-1,70894	0	306.302,98	29,5325	0,982537	-68,5763	0	2,36957	1,53597



3	53,63 09	4,95615 E-15	0	303.01 2,26	32,0556	1,0872 1	-66,4558	0	2,3785 4	1,5221 5
3	53,63 09	4,95615 E-15	0	303.85 5,31	31,9922	1,0852 2	-66,5841	0	2,3842 8	1,5225 6
3	53,65 41	0,05521 89	0	303.72 8,70	32,0749	1,0885 4	-66,5029	0	2,3845	1,5220 4
3	54,54 57	2,18691	0	297.50 0,25	35,3116	1,2160 6	-62,549	0	2,3953 7	1,4972 1
3	55,61 56	4,75831	0	287.90 8,69	39,2646	1,3663	-56,6974	0	2,4109 6	1,4623 9
3	56,89 95	7,86765	0	272.87 8,11	44,0312	1,5535 9	-48,0611	0	2,4327 6	1,4148 7
3	58,44 02	11,6992	0	248.30 3,35	49,572	1,7562	-35,0699	0	2,547	1,3509 9
3	59,54 44	14,5662	0	223.37 9,77	53,2271	1,9317 5	-22,9467	0	2,6481 1	1,2982 2
3	59,54 44	14,5662	0	223.37 9,77	53,2271	1,9317 5	-22,9467	0	2,6481	1,2982 2
3	60,28 91	16,5713	0	201.53 8,71	55,3431	2,0730 3	-13,5245	0	2,7280 6	1,2614 1
3	62,50 77	22,8489	0	150.99 0,25	60,5709	2,5052 5	1,69353	0	2,9223 3	1,2123 9
3	65,17	30,8824	0	111.92 1,01	65,38	3,0378 6	9,66522	0	3,1067 9	1,1929
3	65,72 57	32,6183	0	105.75 6,49	66,2593	3,1502 9	10,699	0	3,1412 7	1,1908 2
3	65,72 57	32,6183	0	105.75 6,49	66,2593	3,1503 4	10,699	0	3,1412 2	1,1908 2
3	68,36 48	41,1175	0	82.282, 77	69,7253	3,7119 5	14,1788	0	3,2987 2	1,1848 4
3	72,19 86	54,1918	0	59.334, 50	73,0763	4,6456 3	16,981	0	3,5218 4	1,1815 8
3	76,79 91	71,0253	0	41.365, 06	75,1903	6,0357 7	18,8072	0	3,7983 5	1,1806 3
3	82,31 97	92,8626	0	28.551, 99	77,3279	7,9112 3	20,301	0	4,1059	1,1794 6
3	86,83 98	111,905	0	22.618, 35	79,1138	9,3478 5	21,6711	0	4,3074 7	1,1765 7



3	88,94 44	121,075	0	20.617, 33	79,9739	9,9722 3	22,102	0	4,3884 3	1,1757 3
3	96,89 41	157,084	0	15.123, 23	83,3176	12,324 2	23,1772	0	4,6636 3	1,1738 5
3	106,4 34	202,959	0	11.070, 39	87,508	15,143 8	23,8516	0	4,9478 4	1,1729 5
3	106,5 01	203,293	0	11.047, 97	87,5382	15,163 7	23,855	0	4,9497 1	1,1729 5
4	82,76 5	- 16,0407	0	1,00	0,00177 245	0,1863 1	24,6396	0	2,5820 8	1,1739 6
4	82,86 5	- 15,8023	0	267.35 6,90	4,2088	0,0208 791	-66,1319	0	2,3819 3	1,5426 7
4	82,96 5	- 15,5641	0	267.19 7,91	5,95493	0,0416 406	-66,0867	0	2,3826 9	1,5424 3
4	83,06 5	- 15,3258	0	266.66 6,98	7,30228	0,0623 359	-66,0151	0	2,3835 1	1,5422 4
4	83,16 5	- 15,0874	0	266.05 5,67	8,44432	0,0829 515	-65,9389	0	2,3843 4	1,5420 6
4	83,26 5	- 14,8489	0	265.42 5,95	9,45187	0,1035 68	-65,8626	0	2,3851 6	1,5418 9
4	83,36 5	- 14,6104	0	264.79 6,30	10,3652	0,1241 72	-65,7874	0	2,3859 6	1,5417 3
4	83,46 5	- 14,3717	0	264.16 3,75	11,2108	0,1446 88	-65,7124	0	2,3867 5	1,5415 8
4	83,56 5	-14,133	0	263.51 7,87	12,0046	0,1650 98	-65,6358	0	2,3875 7	1,5414 2
4	83,66 5	- 13,8942	0	262.85 7,54	12,7531	0,1854 54	-65,5575	0	2,3884 6	1,5412 6
4	83,76 5	- 13,6553	0	262.19 4,22	13,4607	0,2058 12	-65,4791	0	2,3892 4	1,5411 6
4	83,86 5	- 13,4164	0	261.53 2,32	14,1354	0,2261 39	-65,4011	0	2,3900 6	1,5409 4
4	83,96 5	- 13,1773	0	260.86 4,61	14,7842	0,2463 66	-65,3225	0	2,3908 9	1,5407 8
4	84,06 5	- 12,9382	0	260.19 7,00	15,4088	0,2665 49	-65,244	0	2,3917 1	1,5406 2
4	84,16	-12,699	0	259.52	16,0118	0,2866	-65,1656	0	2,3925	1,5404



	5			9,21		91			4	7
4	84,26	-	0	258.86	16,5951	0,3068	-65,0873	0	2,3933	1,5403
	5	12,4597		2,28		03			6	1
4	84,36	-	0	258.19	17,1605	0,3268	-65,0094	0	2,3941	1,5401
	5	12,2203		7,78		98			7	6
4	84,46	-	0	257.53	17,7109	0,3469	-64,9313	0	2,3949	1,54
	5	11,9808		1,32		28			8	
4	84,56	-	0	256.86	18,2461	0,3669	-64,8537	0	2,3957	1,5398
	5	11,7413		8,46		54			9	5
4	84,66	-	0	256.20	18,7684	0,3869	-64,7761	0	2,3966	1,5397
	5	11,5017		5,64		4				
4	84,76	-11,262	0	255.54	19,2787	0,4068	-64,6986	0	2,3974	1,5395
	5			4,03		94			1	4
4	84,88	-	0	254.75	19,8767	0,4307	-64,6057	0	2,3983	1,5393
	5	10,9742		1,09		89			7	6
4	85,02	-	0	253.79	20,5751	0,4593	-64,4942	0	2,3995	1,5391
	9	10,6288		9,09		92			3	4
4	85,20	-10,214	0	252.66	21,3897	0,4935	-64,363	0	2,4009	1,5388
	18			0,90		45			1	9
4	85,40	-	0	251.36	22,3361	0,5341	-64,2378	0	2,4025	1,5387
	92	9,71601		1,69		27			3	9
4	85,65	-	0	250.03	23,434	0,5816	-64,1982	0	2,4043	1,5393
	8	9,11799		3,90		31			1	5
4	85,95	-	0	249.00	24,7033	0,6358	-64,3864	0	2,4061	1,5414
	66	8,39983		1,07		71				
4	86,31	-	0	248.42	26,1645	0,6973	-64,7312	0	2,4078	1,5443
	49	7,53733		4,29		64			7	3
4	86,74	-	0	248.28	27,8385	0,7674	-65,0318	0	2,4098	1,5466
	49	6,50143		3,12		27			1	7
4	87,26	-	0	248.26	29,7429	0,8488	-65,0245	0	2,4123	1,5466
	09	5,25736		0,09		22			6	3
4	87,88	-3,7628	0	248.12	31,9057	0,9436	-64,5867	0	2,4157	1,5434
	01			9,42		64			8	5
4	88,62	-	0	247.52	34,5042	1,0506	-63,4979	0	2,4204	1,5357
	31	1,96619		4,29		6			5	7
4	89,43	2,44241	0	245.84	37,4469	1,1605	-61,4809	0	2,4266	1,5221
	44	E-12		4,53					5	2
4	89,43	2,44241	0	246.57	37,3733	1,1588	-61,5907	0	2,4311	1,5224



	44	E-12		8,80		7			4	5
4	89,51 47	0,19532 1	0	246.34 4,82	37,6701	1,1696	-61,3477	0	2,4316	1,5208 4
4	90,58 46	2,8019	0	241.82 7,96	41,6889	1,3126 6	-57,202	0	2,4398 8	1,4942 8
4	91,86 85	5,94235	0	233.94 8,91	46,5964	1,484	-50,917	0	2,4524 4	1,4565 5
4	93,40 92	9,75707	0	220.37 7,46	52,4839	1,6752 9	-41,4179	0	2,5182 4	1,4043 7
4	95,25 81	14,5314	0	196.63 3,88	59,2194	1,9240 8	-26,997	0	2,6499 3	1,3344 3
4	96,08 83	16,76	0	181.75 0,27	62,0116	2,0589 6	-18,901	0	2,7187 8	1,2991 9
4	96,08 83	16,76	0	181.75 0,27	62,0116	2,0588 8	-18,901	0	2,7189	1,2991 9
4	97,47 67	20,6264	0	152.16 4,42	66,0314	2,3215 6	-5,72855	0	2,8454 3	1,2479 5
4	100,1 39	28,4754	0	111.07 5,24	72,3583	2,8428 4	6,18333	0	3,0429 3	1,2101 1
4	103,3 34	38,5134	0	80.711, 57	78,5291	3,4752 9	12,4072	0	3,2350 3	1,1942 9
4	104,7 73	43,2228	0	71.087, 88	81,0314	3,7603 6	14,0312	0	3,3113 6	1,1908 2
4	104,7 73	43,2228	0	71.087, 88	81,0314	3,7603 3	14,0312	0	3,3113 9	1,1908 2
4	107,1 68	51,3	0	58.403, 77	84,6962	4,2537 2	15,9487	0	3,4330 9	1,1872
4	111,7 68	67,628	0	41.432, 17	89,8619	5,3348 5	18,1597	0	3,6658 4	1,1839 3
4	117,2 89	88,67	0	28.308, 06	93,2498	6,9851 7	19,5951	0	3,9617 2	1,1826 3
4	121,1 02	104,162	0	22.580, 45	94,7077	8,2403 4	20,7718	0	4,1545 2	1,1801 7
4	123,9 13	116,017	0	19.795, 99	95,8237	9,0580 3	21,5384	0	4,2689 5	1,1783 2
4	131,8 63	151,128	0	14.295, 00	99,0923	11,373 6	22,8794	0	4,5574	1,1753 6
4	139,9	189,234	0	10.845,	102,586	13,747	23,6006	0	4,8123	1,1740

	92			26		2			1	1
5	116,6 54	-17,733	0	1,00	0,00177 245	0,1863 1	24,6396	0	2,5820 8	1,1739 6
5	116,7 54	- 17,4918	0	236.54 2,96	4,43486	0,0203 487	-62,953	0	2,4107 5	1,5387 3
5	116,8 54	- 17,2507	0	236.40 2,26	6,27878	0,0405 608	-62,9153	0	2,4113 9	1,5385 4
5	116,9 54	- 17,0095	0	235.95 4,83	7,70035	0,0607 336	-62,8555	0	2,4120 4	1,5383 9
5	117,0 54	- 16,7683	0	235.44 9,14	8,90224	0,0808 805	-62,793	0	2,4126 9	1,5382 5
5	117,1 54	-16,527	0	234.92 2,97	9,96697	0,1009 67	-62,7297	0	2,4133 3	1,5381 1
5	117,2 54	- 16,2856	0	234.38 5,39	10,9324	0,1210 26	-62,6657	0	2,4139 8	1,5379 8
5	117,3 54	- 16,0442	0	233.84 4,36	11,8228	0,1410 56	-62,6017	0	2,4146 2	1,5378 6
5	117,4 54	- 15,8027	0	233.30 0,76	12,6552	0,1610 35	-62,5378	0	2,4152 7	1,5377 3
5	117,5 54	- 15,5611	0	232.75 4,97	13,4409	0,1809 59	-62,4737	0	2,4159 1	1,5376 1
5	117,6 54	- 15,3195	0	232.20 7,57	14,1868	0,2008 44	-62,4095	0	2,4165 6	1,5374 8
5	117,7 54	- 15,0778	0	231.65 8,12	14,8984	0,2206 98	-62,3452	0	2,4172	1,5373 6
5	117,8 54	- 14,8361	0	231.10 7,79	15,5805	0,2405 19	-62,2808	0	2,4178 4	1,5372 4
5	117,9 54	- 14,5942	0	230.55 7,13	16,2365	0,2603 09	-62,2165	0	2,4184 9	1,5371 1
5	118,0 54	- 14,3524	0	230.00 6,39	16,8701	0,2800 59	-62,1522	0	2,4191 3	1,5369 9
5	118,1 54	- 14,1104	0	229.45 4,99	17,4837	0,2997 66	-62,0878	0	2,4197 7	1,5368 7
5	118,2 54	- 13,8684	0	228.90 2,63	18,0796	0,3194 26	-62,0233	0	2,4204 1	1,5367 4
5	118,3 54	- 13,6263	0	228.34 9,61	18,6595	0,3390 4	-61,9588	0	2,4210 5	1,5366 2



5	118,4 54	- 13,3842	0	227.79 6,03	19,2247	0,3586 12	-61,8942	0	2,4217	1,5365
5	118,5 54	-13,142	0	227.24 1,91	19,7759	0,3781 55	-61,8296	0	2,4223 4	1,5363 8
5	118,6 54	- 12,8997	0	226.68 6,83	20,315	0,3976 51	-61,7649	0	2,4229 8	1,5362 5
5	118,7 74	- 12,6089	0	226.01 9,70	20,9461	0,4210 1	-61,6871	0	2,4237 5	1,5361 1
5	118,9 18	- 12,2598	0	225.21 7,95	21,683	0,4489 84	-61,5936	0	2,4246 7	1,5359 3
5	119,0 91	- 11,8408	0	224.25 4,72	22,5407	0,4824 68	-61,4813	0	2,4257 8	1,5357 2
5	119,2 98	- 11,3376	0	223.09 7,35	23,5363	0,5225 14	-61,3465	0	2,4271 1	1,5354 6
5	119,5 47	- 10,7335	0	221.89 2,81	24,6891	0,5696 53	-61,2823	0	2,4285 7	1,5357 5
5	119,8 46	- 10,0081	0	220.92 7,97	26,0212	0,6236 92	-61,4569	0	2,4300 2	1,5376 3
5	120,2 04	- 9,13711	0	220.36 6,21	27,5554	0,6848 55	-61,8879	0	2,4314 4	1,5411 4
5	120,6 34	- 8,09128	0	220.24 3,56	29,3154	0,7542 23	-62,3793	0	2,4329 4	1,5448 3
5	121,1 5	- 6,83544	0	220.45 5,91	31,3248	0,8334 9	-62,7295	0	2,4347 3	1,5472 8
5	121,7 69	- 5,32719	0	220.79 1,09	33,6069	0,9250 16	-62,739	0	2,4371 1	1,5471 3
5	122,5 12	- 3,51511	0	220.85 7,34	36,2638	1,0300 8	-62,1586	0	2,4404 6	1,5428 2
5	123,4 04	- 1,33694	0	220.12 5,09	39,5139	1,1487 1	-60,6225	0	2,4453 4	1,5320 7
5	123,9 5	1,62457 E-14	0	219.15 5,10	41,555	1,2186 7	-59,2464	0	2,4488 1	1,5227 7
5	123,9 5	1,62457 E-14	0	219.80 8,38	41,4763	1,2172 3	-59,3434	0	2,4526 2	1,5230 6
5	124,4 74	1,28522	0	218.33 7,27	43,4738	1,2845 1	-57,6475	0	2,4554 7	1,5119 3
5	125,7 58	4,44368	0	213.12 6,50	48,454	1,4484 6	-52,5121	0	2,4643 4	1,4797 3



5	127,2 98	8,2605	0	203.80 4,19	54,4976	1,6347 6	-44,6876	0	2,5073	1,4342 8
5	129,1 47	12,9997	0	187.30 4,75	61,5827	1,8567 5	-32,8437	0	2,6216 4	1,3723 9
5	131,1 32	18,3395	0	161.09 7,94	68,635	2,1534 6	-16,8793	0	2,7648 3	1,2995 5
5	131,1 32	18,3395	0	161.09 7,94	68,635	2,1534 7	-16,8793	0	2,7648 1	1,2995 5
5	131,3 66	18,9901	0	156.66 0,29	69,353	2,1952 1	-14,4351	0	2,7853 3	1,2892 8
5	134,0 28	26,6973	0	113.92 4,79	76,8032	2,7084 5	2,47483	0	2,9953 5	1,2266 9
5	137,2 23	36,5978	0	81.880, 85	83,9459	3,3374 9	10,6592	0	3,1956 1	1,2023
5	141,0 57	49,2404	0	58.850, 81	91,2835	4,0914 4	15,0162	0	3,3941 4	1,1916 5
5	141,5 75	51,0068	0	56.535, 47	92,2183	4,1929 3	15,401	0	3,4185 1	1,1908 2
5	141,5 75	51,0068	0	56.535, 47	92,2183	4,1928 7	15,401	0	3,4185 5	1,1908 2
5	145,6 57	65,3469	0	42.006, 31	98,5565	5,0462 2	17,594	0	3,6074 6	1,1865 5
5	151,1 78	85,9781	0	29.155, 29	104,441	6,4324 2	19,2371	0	3,8689 3	1,1841 1
5	155,3 44	102,526	0	22.664, 41	106,92	7,6938 8	20,133	0	4,0732 6	1,1827 4
5	157,8 03	112,681	0	20.108, 48	107,877	8,3984 6	20,9509	0	4,1772 6	1,1805 7
5	165,7 52	147,109	0	14.360, 46	111,088	10,685	22,5774	0	4,4764 2	1,1765 6
5	174,2 34	186,266	0	10.693, 96	114,682	13,136 9	23,4527	0	4,7499 9	1,1746 8
6	149,5 69	-19,036	0	1,00	0,00177 245	0,1863 1	24,6396	0	2,5820 8	1,1739 6
6	149,6 69	- 18,7929	0	216.04 4,06	4,60051	0,0200 133	-60,8511	0	2,4289 1	1,5362 9
6	149,7	-18,55	0	215.92	6,51424	0,0398	-60,8196	0	2,4294	1,5361

	69			3,80		907			7	4
6	149,8 69	-18,307	0	215.53 3,71	7,98935	0,0597 335	-60,7679	0	2,4300 2	1,5360 1
6	149,9 69	-18,064	0	215.08 6,23	9,23599	0,0795 593	-60,7128	0	2,4305 7	1,5358 9
6	150,0 69	- 17,8209	0	214.62 6,28	10,3392	0,0993 391	-60,6577	0	2,4311	1,5357 8
6	150,1 69	- 17,5778	0	214.15 7,18	11,3412	0,1190 74	-60,6021	0	2,4316 5	1,5356 7
6	150,2 69	- 17,3346	0	213.68 2,33	12,265	0,1387 87	-60,5462	0	2,4322	1,5355 6
6	150,3 69	- 17,0913	0	213.20 6,29	13,1276	0,1584 7	-60,4904	0	2,4327 4	1,5354 5
6	150,4 69	-16,848	0	212.72 8,85	13,9412	0,1781 08	-60,4345	0	2,4332 8	1,5353 5
6	150,5 69	- 16,6047	0	212.25 0,08	14,7142	0,1976 98	-60,3786	0	2,4338 2	1,5352 4
6	150,6 69	- 16,3613	0	211.77 0,52	15,4522	0,2172 53	-60,3227	0	2,4343 6	1,5351 4
6	150,7 69	- 16,1178	0	211.28 9,56	16,1597	0,2367 75	-60,2667	0	2,4349	1,5350 3
6	150,8 69	- 15,8743	0	210.80 7,75	16,8403	0,2562 7	-60,2106	0	2,4354 5	1,5349 3
6	150,9 69	- 15,6307	0	210.32 5,61	17,497	0,2757 37	-60,1544	0	2,4359 9	1,5348 3
6	151,0 69	- 15,3871	0	209.84 3,37	18,1327	0,2951 72	-60,0983	0	2,4365 3	1,5347 2
6	151,1 69	- 15,1434	0	209.36 0,82	18,7498	0,3145 7	-60,0422	0	2,4370 7	1,5346 2
6	151,2 69	- 14,8997	0	208.87 7,72	19,3501	0,3339 27	-59,9861	0	2,4376 1	1,5345 1
6	151,3 69	- 14,6559	0	208.39 3,84	19,9352	0,3532 46	-59,9298	0	2,4381 5	1,5344 1
6	151,4 69	- 14,4121	0	207.90 9,61	20,5066	0,3725 21	-59,8736	0	2,4386 9	1,5343 1
6	151,5 69	- 14,1682	0	207.42 4,96	21,0651	0,3917 61	-59,8173	0	2,4392 3	1,5342
6	151,6	-	0	206.84	21,7192	0,4148	-59,7497	0	2,4398	1,5340



	89	13,8754		2,90		13			8	8
6	151,833	-13,524	0	206.143,17	22,4837	0,442403	-59,6684	0	2,44065	1,53393
6	152,006	-13,1022	0	205.302,04	23,3733	0,475444	-59,5707	0	2,44159	1,53375
6	152,213	-12,5958	0	204.290,99	24,4061	0,514971	-59,4533	0	2,44271	1,53353
6	152,462	-11,9878	0	203.188,65	25,6011	0,561773	-59,375	0	2,44398	1,53366
6	152,761	-11,2579	0	202.256,18	26,9818	0,615754	-59,5021	0	2,44526	1,53516
6	153,119	-10,3815	0	201.761,41	28,5739	0,676369	-60,0026	0	2,44643	1,53909
6	153,549	-9,32926	0	201.759,55	30,4027	0,744326	-60,7266	0	2,44761	1,54436
6	154,065	-8,06595	0	202.111,00	32,492	0,821962	-61,2963	0	2,44902	1,54831
6	154,684	-6,54898	0	202.622,06	34,8618	0,911632	-61,5394	0	2,45091	1,54977
6	155,427	-4,72693	0	203.036,68	37,5731	1,01525	-61,2782	0	2,45354	1,54759
6	156,319	-2,53761	0	202.909,22	40,8446	1,13251	-60,1864	0	2,45735	1,53975
6	157,35	4,31382 E-12	0	201.614,92	44,7528	1,26126	-57,8832	0	2,46279	1,52396
6	157,35	4,31382 E-12	0	202.214,56	44,6701	1,25994	-57,9718	0	2,46618	1,52422
6	157,389	0,0948026	0	202.140,86	44,8182	1,26468	-57,8676	0	2,46633	1,52352
6	158,672	3,26597	0	198.402,01	49,8426	1,42431	-53,4558	0	2,47308	1,49507
6	160,213	7,09035	0	191.367,62	55,9719	1,60866	-46,6421	0	2,50184	1,45406
6	162,062	11,8125	0	178.608,40	63,2498	1,81568	-36,2359	0	2,60674	1,39714
6	164,281	17,7504	0	156.201,30	71,5214	2,11945	-20,8509	0	2,74949	1,32301
6	164,9	19,5598	0	147.26	73,7761	2,2251	-15,4434	0	2,7979	1,2993



	33			4,46		4			1	5
6	164,9 33	19,5598	0	147.26 4,46	73,7761	2,2251 4	-15,4434	0	2,7979 1	1,2993 5
6	166,9 43	25,3488	0	116.49 5,70	79,7717	2,6031 2	-0,979239	0	2,9561 8	1,2423 6
6	170,1 38	35,1372	0	83.000, 91	87,6703	3,2310 7	9,05738	0	3,1641 5	1,2096
6	173,9 71	47,6701	0	59.166, 61	95,6659	3,9844	14,2152	0	3,3677 4	1,1954 9
6	176,7 12	57,0751	0	48.074, 08	100,893	4,5182 3	16,1879	0	3,4938 9	1,1908 2
6	176,7 12	57,0751	0	48.074, 08	100,893	4,5184 3	16,1879	0	3,4937 3	1,1908 2
6	178,5 72	63,6487	0	42.218, 88	104,159	4,8895 7	17,1325	0	3,5746 7	1,1887 9
6	184,0 93	84,0499	0	29.541, 15	111,796	6,1393 6	18,9491	0	3,8173 7	1,1854 2
6	188,5 76	101,618	0	22.707, 63	115,924	7,3373 7	19,8023	0	4,0183 2	1,1841 8
6	190,7 17	110,324	0	20.440, 32	117,182	7,9067 8	20,4122	0	4,1055 1	1,1826 1
6	198,6 67	144,215	0	14.456, 59	120,393	10,165 9	22,3102	0	4,4128 7	1,1776
6	207,5 21	184,614	0	10.562, 51	124,102	12,705 1	23,3373	0	4,7046 4	1,1752 1
7	181,7 85	- 20,0872	0	1,00	0,00177 245	0,1863 1	24,6396	0	2,5820 8	1,1739 6
7	181,8 85	- 19,8429	0	201.13 5,35	4,73722	0,0197 567	-59,3263	0	2,4417	1,5345 9
7	181,9 85	- 19,5987	0	201.01 2,65	6,709	0,0393 921	-59,2986	0	2,4421 8	1,5344 7
7	182,0 85	- 19,3544	0	200.63 0,54	8,22734	0,0589 877	-59,249	0	2,4426 9	1,5343 5
7	182,1 85	- 19,1101	0	200.22 0,15	9,5094	0,0785 879	-59,1991	0	2,4431 6	1,5342 4
7	182,2 85	- 18,8658	0	199.81 2,30	10,6415	0,0981 907	-59,1509	0	2,4436 2	1,5341 5



7	182,3 85	- 18,6214	0	199.39 8,77	11,6729	0,1177 09	-59,1023	0	2,4440 8	1,5340 6
7	182,4 85	-18,377	0	198.97 2,76	12,625	0,1371 89	-59,0522	0	2,4445 6	1,5339 6
7	182,5 85	- 18,1325	0	198.54 1,41	13,514	0,1566 35	-59,0017	0	2,4450 4	1,5338 7
7	182,6 85	-17,888	0	198.10 8,90	14,3512	0,1760 55	-58,9512	0	2,4455 2	1,5337 8
7	182,7 85	- 17,6434	0	197.67 4,04	15,1463	0,1954 25	-58,9006	0	2,446 8	1,5336 8
7	182,8 85	- 17,3988	0	197.23 5,79	15,9063	0,2147 4	-58,8496	0	2,4464 8	1,5335 9
7	182,9 85	- 17,1541	0	196.79 5,98	16,635	0,2340 2	-58,7985	0	2,4469 6	1,5335 6
7	183,0 85	- 16,9094	0	196.35 6,57	17,3356	0,2532 85	-58,7474	0	2,4474 4	1,5334 4
7	183,1 85	- 16,6646	0	195.91 8,08	18,0113	0,2725 37	-58,6966	0	2,4479 2	1,5333 1
7	183,2 85	- 16,4198	0	195.48 0,50	18,6649	0,2917 69	-58,6458	0	2,4484 2	1,5332 2
7	183,3 85	- 16,1749	0	195.04 3,67	19,2989	0,3109 82	-58,5952	0	2,4488 7	1,5331 3
7	183,4 85	-15,93	0	194.60 8,13	19,9151	0,3301 78	-58,5448	0	2,4493 5	1,5330 4
7	183,5 85	-15,685	0	194.17 3,57	20,5153	0,3493 5	-58,4944	0	2,4498 2	1,5329 5
7	183,6 85	-15,44	0	193.73 9,33	21,1007	0,3684 97	-58,4442	0	2,4502 9	1,5328 5
7	183,7 85	-15,195	0	193.30 5,22	21,6734	0,3875 98	-58,3939	0	2,4507 6	1,5327 6
7	183,9 05	- 14,9009	0	192.78 3,77	22,3448	0,4104 68	-58,3336	0	2,4513 2	1,5326 6
7	184,0 49	- 14,5478	0	192.15 6,47	23,1311	0,4378 06	-58,2609	0	2,452 2	1,5325 3
7	184,2 22	- 14,1241	0	191.40 0,45	24,0488	0,4704 85	-58,1734	0	2,4528 2	1,5323 7
7	184,4 3	- 13,6153	0	190.48 7,50	25,1168	0,5095 24	-58,0675	0	2,4538 2	1,5321 8



7	184,678	-13,0046	0	189.421,85	26,3524	0,556068	-57,9615	0	2,45497	1,53208
7	184,977	-12,2714	0	188.525,36	27,7734	0,609934	-58,0651	0	2,45614	1,53338
7	185,335	-11,3911	0	188.071,76	29,4056	0,670501	-58,5612	0	2,45716	1,53722
7	185,765	-10,3344	0	188.089,72	31,284	0,738163	-59,335	0	2,45818	1,54279
7	186,281	-9,06571	0	188.477,73	33,4319	0,815054	-60,0435	0	2,45937	1,54777
7	186,9	-7,54245	0	189.098,27	35,8749	0,90329	-60,496	0	2,46092	1,55062
7	187,643	-5,71319	0	189.748,84	38,644	1,00543	-60,5163	0	2,46306	1,55036
7	188,535	-3,51579	0	190.094,16	41,8857	1,12233	-59,8409	0	2,46619	1,54521
7	189,605	-0,874839	0	189.482,87	45,9434	1,25308	-57,976	0	2,47069	1,53215
7	189,959	5,24362E-12	0	188.977,51	47,319	1,29538	-57,0984	0	2,47246	1,52621
7	189,959	5,24362E-12	0	189.538,26	47,233	1,29415	-57,1807	0	2,47557	1,52645
7	190,889	2,30438	0	187.373,00	50,9125	1,40665	-54,2519	0	2,47966	1,50726
7	192,43	6,13394	0	181.850,00	57,1095	1,58963	-48,1596	0	2,49699	1,46957
7	194,278	10,8429	0	171.448,80	64,5236	1,78536	-38,7046	0	2,59643	1,41598
7	196,497	16,7483	0	153.116,26	73,07	2,06909	-24,7598	0	2,72874	1,34579
7	197,871	20,5594	0	137.297,72	77,9783	2,28135	-14,4531	0	2,82302	1,29943
7	197,871	20,5594	0	137.297,72	77,9783	2,28135	-14,4531	0	2,82302	1,29943
7	199,159	24,2655	0	118.780,84	81,9487	2,51547	-4,62106	0	2,92215	1,25922
7	202,3	33,9553	0	84.148,	90,5025	3,1412	7,50511	0	3,1368	1,2166



	54			27		1			8	2
7	206,1 88	46,3939	0	59.555, 88	99,0384	3,8951 2	13,4714	0	3,3452 9	1,1989 8
7	210,7 37	62,0928	0	42.454, 12	108,077	4,7797 7	16,7057	0	3,5511 8	1,1908 2
7	210,7 37	62,0928	0	42.454, 12	108,077	4,7797 7	16,7057	0	3,5511 8	1,1908 2
7	210,7 88	62,2765	0	42.306, 11	108,175	4,7897 6	16,7311	0	3,5533 3	1,1907 6
7	216,3 09	82,5508	0	29.712, 69	117,129	5,9600 5	18,7032	0	3,7849 2	1,1865 9
7	220,9 01	100,384	0	22.718, 02	122,495	7,1089 8	19,6516	0	3,9818 9	1,1849 5
7	222,9 34	108,575	0	20.555, 44	124,22	7,6070 1	19,9459	0	4,0601 9	1,1844 5
7	230,8 83	142,089	0	14.468, 64	128,062	9,8005 6	22,0751	0	4,3667 4	1,1785 4
7	239,7 96	182,373	0	10.492, 72	131,767	12,341 1	23,2178	0	4,6655 4	1,1757 2
8	213,5 45	- 20,9855	0	1,00	0,00177 245	0,1863 1	24,6396	0	2,5820 8	1,1739 6
8	213,6 45	- 20,7402	0	189.48 3,64	4,84576	0,0195 884	-58,1411	0	2,4513 7	1,5333 3
8	213,7 45	- 20,4951	0	189.37 8,33	6,8611	0,0390 601	-58,1166	0	2,4518 1	1,5332 2
8	213,8 45	- 20,2499	0	189.05 0,52	8,41293	0,0585 111	-58,0738	0	2,4522 4	1,5331 1
8	213,9 45	- 20,0046	0	188.67 8,10	9,72652	0,0779 3	-58,0283	0	2,4526 7	1,5330 2
8	214,0 45	- 19,7593	0	188.29 2,82	10,8872	0,0973 262	-57,9824	0	2,4531	1,5329 3
8	214,1 45	-19,514	0	187.90 1,21	11,9416	0,1166 75	-57,9362	0	2,4535 4	1,5328 4
8	214,2 45	- 19,2686	0	187.50 5,48	12,9148	0,1359 95	-57,8899	0	2,4539 7	1,5327 6
8	214,3 45	- 19,0232	0	187.10 7,36	13,823	0,1552 93	-57,8434	0	2,4544	1,5326 7



8	214,4 45	- 18,7777	0	186.70 8,86	14,6787	0,1745 65	-57,797	0	2,4548 3	1,5325 9
8	214,5 45	- 18,5322	0	186.30 9,55	15,4913	0,1937 98	-57,7506	0	2,4552 6	1,5325
8	214,6 45	- 18,2867	0	185.90 9,21	16,2676	0,2129 89	-57,7041	0	2,4556 9	1,5324 2
8	214,7 45	- 18,0411	0	185.50 8,50	17,0121	0,2321 48	-57,6576	0	2,4561 2	1,5323 4
8	214,8 45	- 17,7955	0	185.10 7,00	17,7288	0,2512 73	-57,6111	0	2,4565 5	1,5322 5
8	214,9 45	- 17,5498	0	184.70 4,77	18,4201	0,2703 79	-57,5645	0	2,4569 8	1,5321 7
8	215,0 45	- 17,3041	0	184.30 2,26	19,0893	0,2894 58	-57,5178	0	2,4574 1	1,5320 9
8	215,1 45	- 17,0583	0	183.89 9,71	19,7382	0,3085 15	-57,4712	0	2,4578 4	1,532
8	215,2 45	- 16,8125	0	183.49 7,22	20,3692	0,3275 42	-57,4247	0	2,4582 7	1,5319 2
8	215,3 45	- 16,5667	0	183.09 4,65	20,984	0,3465 38	-57,3781	0	2,4587	1,5318 4
8	215,4 45	- 16,3208	0	182.69 1,80	21,5841	0,3655	-57,3315	0	2,4591 3	1,5317 5
8	215,5 45	- 16,0748	0	182.28 8,51	22,1707	0,3844 27	-57,2848	0	2,4595 6	1,5316 7
8	215,6 65	- 15,7797	0	181.80 4,06	22,8584	0,4070 92	-57,2288	0	2,4600 7	1,5315 7
8	215,8 09	- 15,4254	0	181.22 2,36	23,6622	0,4342 26	-57,1616	0	2,4606 9	1,5314 5
8	215,9 82	- 15,0001	0	180.52 3,67	24,5982	0,4667 17	-57,0808	0	2,4614 3	1,5313 1
8	216,1 89	- 14,4896	0	179.68 3,64	25,6852	0,5055 87	-56,9837	0	2,4623 1	1,5311 4
8	216,4 38	- 13,8768	0	178.73 8,46	26,9424	0,5518 05	-56,9071	0	2,4633 4	1,5311 8
8	216,7 37	- 13,1411	0	177.89 4,03	28,3936	0,6055 04	-56,9977	0	2,4644	1,5323 4
8	217,0 95	- 12,2579	0	177.42 2,00	30,0663	0,6660 73	-57,4501	0	2,4653 5	1,5358 6



8	217,5 25	- 11,1975	0	177.43 9,50	31,9896	0,7333 91	-58,2955	0	2,4662 3	1,5419 2
8	218,0 41	- 9,92473	0	177.87 2,53	34,1907	0,8092 65	-59,1802	0	2,4672 4	1,5480 5
8	218,6 6	- 8,39669	0	178.56 3,62	36,6973	0,8961 68	-59,7963	0	2,4685 9	1,5521
8	219,4 03	- 6,56183	0	179.31 4,65	39,5354	0,9967 27	-59,9796	0	2,4704 6	1,5529 7
8	220,2 95	- 4,35796	0	179.86 8,35	42,7968	1,1127 9	-59,5458	0	2,4730 7	1,5494 6
8	221,3 65	- 1,70981	0	179.68 4,27	46,8511	1,2423 7	-58,0402	0	2,4769 7	1,5386 9
8	222,0 55	7,11407 E-15	0	178.94 1,08	49,5503	1,3230 7	-56,4834	0	2,48	1,5280 5
8	222,0 55	7,11407 E-15	0	179.47 1,73	49,4615	1,3219	-56,561	0	2,4829	1,5282 7
8	222,6 49	1,47589	0	178.31 1,86	51,8322	1,3922	-54,8108	0	2,4851 7	1,5166 8
8	224,1 9	5,31107	0	173.75 7,89	58,0772	1,5748 4	-49,2132	0	2,4941 8	1,4813 5
8	226,0 38	10,0114	0	165.01 0,75	65,5912	1,7622	-40,4976	0	2,5892 4	1,4306 6
8	228,2 57	15,8921	0	149.50 6,01	74,3443	2,0302 4	-27,634	0	2,7138	1,3636 9
8	230,2 43	21,4066	0	129.65 3,19	81,6277	2,3251 9	-13,8661	0	2,8419 7	1,3003 7
8	230,2 43	21,4066	0	129.65 3,19	81,6277	2,3251 7	-13,8661	0	2,8419 9	1,3003 7
8	230,9 19	23,3499	0	120.41 5,05	83,7558	2,4457 1	-8,4017	0	2,8933 8	1,2772 9
8	234,1 14	32,9538	0	85.259, 27	92,8957	3,0625 6	5,90708	0	3,1122 5	1,2238 8
8	237,9 48	45,3071	0	59.962, 62	101,931	3,8169 9	12,7347	0	3,3252 5	1,2024 3
8	242,5 48	61,1058	0	42.361, 38	111,503	4,7128 3	16,3489	0	3,5366 2	1,1926 5
8	244,1 05	66,6598	0	38.184, 64	114,581	5,0124 2	17,097	0	3,6003 6	1,1908 2



8	244,105	66,6598	0	38.184,64	114,581	5,01241	17,097	0	3,60036	1,19082
8	248,069	81,2471	0	29.848,87	121,576	5,82036	18,4703	0	3,75916	1,18771
8	252,789	99,4459	0	22.725,80	128,058	6,93034	19,5108	0	3,95288	1,18567
8	254,694	107,057	0	20.675,52	130,093	7,3724	19,7953	0	4,02377	1,18514
8	262,643	140,235	0	14.506,80	135,113	9,4654	21,8403	0	4,32333	1,17946
8	271,667	180,673	0	10.421,72	138,831	12,0232	23,1074	0	4,63072	1,17619
9	244,453	-21,7443	0	1,00	0,00177245	0,18631	24,6396	0	2,58208	1,17396
9	244,553	-21,4981	0	177.828,36	4,93772	0,0194116	-56,9556	0	2,46085	1,53208
9	244,653	-21,252	0	177.715,37	6,98903	0,0387293	-56,933	0	2,46125	1,53199
9	244,753	-21,0059	0	177.412,15	8,57127	0,0580061	-56,8939	0	2,46164	1,53194
9	244,853	-20,7597	0	177.053,59	9,91158	0,0772396	-56,8502	0	2,46206	1,53181
9	244,953	-20,5135	0	176.684,17	11,0941	0,0964696	-56,8063	0	2,46246	1,53173
9	245,053	-20,2672	0	176.314,52	12,1676	0,115665	-56,7629	0	2,46285	1,53165
9	245,153	-20,0209	0	175.942,05	13,1597	0,134813	-56,7195	0	2,46325	1,53157
9	245,253	-19,7746	0	175.566,07	14,0862	0,153935	-56,6757	0	2,46365	1,53149
9	245,353	-19,5282	0	175.188,75	14,9585	0,17304	-56,6319	0	2,46405	1,53141
9	245,453	-19,2818	0	174.812,02	15,7858	0,192123	-56,5882	0	2,46445	1,53134
9	245,553	-19,0353	0	174.436,29	16,5754	0,211177	-56,5447	0	2,46484	1,53126
9	245,6	-	0	174.06	17,3328	0,2301	-56,5013	0	2,4652	1,5311

	53	18,7888		0,85		93			3	8
9	245,7	-	0	173.68	18,062	0,2491	-56,4579	0	2,4656	1,5311
	53	18,5422		4,98		75			2	1
9	245,8	-	0	173.30	18,7666	0,2681	-56,4145	0	2,4660	1,5310
	53	18,2957		9,05		18			2	3
9	245,9	-18,049	0	172.93	19,4486	0,2870	-56,371	0	2,4664	1,5309
	53			2,79		37			1	5
9	246,0	-	0	172.55	20,1105	0,3059	-56,3275	0	2,4668	1,5308
	53	17,8024		6,04		25				8
9	246,1	-	0	172.17	20,7535	0,3247	-56,2839	0	2,4672	1,5308
	53	17,5557		8,90		96				
9	246,2	-	0	171.80	21,3799	0,3436	-56,2404	0	2,4675	1,5307
	53	17,3089		1,65		39			9	3
9	246,3	-	0	171.42	21,9907	0,3624	-56,1968	0	2,4679	1,5306
	53	17,0622		4,44		63			8	5
9	246,4	-	0	171.04	22,5875	0,3812	-56,1533	0	2,4683	1,5305
	53	16,8153		7,25		58			8	7
9	246,5	-	0	170.59	23,2867	0,4037	-56,1011	0	2,4688	1,5304
	73	16,5191		4,76		76			5	8
9	246,7	-	0	170.05	24,1038	0,4307	-56,0384	0	2,4694	1,5303
	17	16,1636		1,47		38			1	7
9	246,8	-	0	169.39	25,0558	0,4630	-55,9631	0	2,4700	1,5302
	9	15,7368		8,79		08			9	4
9	247,0	-	0	168.61	26,1619	0,5016	-55,8727	0	2,4709	1,5300
	97	15,2245		4,84		07				8
9	247,3	-	0	167.68	27,4424	0,5477	-55,7704	0	2,4718	1,5299
	46	14,6095		2,80		29			6	3
9	247,6	-	0	166.84	28,9214	0,6012	-55,837	0	2,4728	1,5309
	44	13,8713		9,01		97			6	2
9	248,0	-	0	166.35	30,6242	0,6618	-56,253	0	2,4737	1,5341
	03	12,9851		3,19		98			6	7
9	248,4	-	0	166.33	32,582	0,7291	-57,106	0	2,4745	1,5402
	33	11,9212		0,93		34			8	6
9	248,9	-	0	166.74	34,8236	0,8043	-58,1063	0	2,4754	1,5472
	49	10,6441		6,38		55			6	
9	249,5	-	0	167.44	37,3776	0,8901	-58,8706	0	2,4766	1,5523
	68	9,11101		0,74		99			4	
9	250,3	-	0	168.22	40,2721	0,9893	-59,2097	0	2,4782	1,5542



	11	7,27026		9,87		13			9	8
9	251,202	-5,05958	0	168.869,82	43,5801	1,10397	-58,9466	0	2,48061	1,55196
9	252,272	-2,4037	0	168.899,02	47,6438	1,23257	-57,6809	0	2,48404	1,5428
9	253,239	2,54562 E-14	0	167.984,93	51,4424	1,34452	-55,6055	0	2,48788	1,52859
9	253,239	2,54562 E-14	0	168.495,04	51,3492	1,3434	-55,6799	0	2,49061	1,5288
9	253,556	0,789805	0	167.970,10	52,6211	1,38023	-54,8081	0	2,49164	1,52299
9	255,097	4,63544	0	162.834,73	58,8925	1,55974	-49,3432	0	2,50015	1,48874
9	256,946	9,33865	0	152.686,48	66,4504	1,7416	-40,7834	0	2,58979	1,43953
9	259,164	15,2182	0	136.443,44	75,2917	1,99778	-28,2261	0	2,71136	1,37418
9	261,588	21,9685	0	113.705,75	84,2634	2,35016	-12,2088	0	2,86178	1,30008
9	261,588	21,9685	0	113.705,75	84,2634	2,35012	-12,2088	0	2,86174	1,30008
9	261,827	22,6536	0	110.836,19	85,0266	2,39164	-10,2825	0	2,879	1,2917
9	265,022	32,2066	0	78.490,67	94,6042	2,99914	5,169	0	3,09537	1,23074
9	268,855	44,4992	0	54.872,20	104,108	3,75319	12,4538	0	3,31001	1,20621
9	273,456	60,2304	0	38.568,25	114,174	4,64606	16,2329	0	3,52263	1,19499
9	276,985	72,9131	0	30.635,73	121,423	5,32026	17,7846	0	3,66333	1,19082
9	276,985	72,9131	0	30.635,73	121,423	5,32026	17,7846	0	3,66333	1,19082
9	278,977	80,2845	0	27.198,06	125,258	5,70904	18,4059	0	3,73856	1,18926
9	282,101	92,1528	0	22.714,76	130,559	6,36895	19,1566	0	3,85817	1,18748
9	285,6	105,909	0	18.875,	135,487	7,1605	19,7595	0	3,9903	1,1861



	01			61					3	5
9	293,5 51	138,759	0	13.227, 70	142,566	9,1066 7	21,756	0	4,2757 1	1,1803 6
9	300,0 79	167,431	0	10.296, 09	145,364	10,928 1	22,8076	0	4,5055 1	1,1774 4
10	244,9 38	- 21,7559	0	1,00	0,00177 245	0,1863 1	24,6396	0	2,5820 8	1,1739 6
10	245,0 38	- 21,5097	0	177.64 4,54	4,93917	0,0194 089	-56,9369	0	2,4609 9	1,5320 7
10	245,1 38	- 21,2635	0	177.53 1,70	6,99109	0,0387 239	-56,9144	0	2,4614	1,5319 8
10	245,2 38	- 21,0174	0	177.22 8,83	8,57379	0,0579 981	-56,8754	0	2,4617 9	1,5318 8
10	245,3 38	- 20,7712	0	176.87 0,69	9,91449	0,0772 29	-56,8317	0	2,4622	1,5317 9
10	245,4 38	- 20,5249	0	176.50 1,72	11,0974	0,0964 564	-56,7878	0	2,4626 1	1,5317 1
10	245,5 38	- 20,2787	0	176.13 2,52	12,1711	0,1156 5	-56,7445	0	2,463	1,5316 3
10	245,6 38	- 20,0323	0	175.76 0,50	13,1636	0,1347 95	-56,7012	0	2,4633 9	1,5315 5
10	245,7 38	-19,786	0	175.38 4,98	14,0903	0,1539 14	-56,6574	0	2,4637 9	1,5314 7
10	245,8 38	- 19,5396	0	175.00 8,12	14,9628	0,1730 17	-56,6136	0	2,4641 9	1,5314
10	245,9 38	- 19,2931	0	174.63 1,85	15,7904	0,1920 98	-56,57	0	2,4645 9	1,5313 2
10	246,0 38	- 19,0467	0	174.25 6,58	16,5802	0,2111 49	-56,5266	0	2,4649 8	1,5312 4
10	246,1 38	- 18,8002	0	173.88 1,60	17,3379	0,2301 63	-56,4833	0	2,4653 7	1,5311 7
10	246,2 38	- 18,5536	0	173.50 6,19	18,0673	0,2491 42	-56,4399	0	2,4657 6	1,5310 9
10	246,3 38	-18,307	0	173.13 0,73	18,7721	0,2680 83	-56,3965	0	2,4661 6	1,5310 1
10	246,4 38	- 18,0604	0	172.75 4,93	19,4543	0,287	-56,3531	0	2,4665 5	1,5309 4

10	246,538	-17,8137	0	172.378,63	20,1164	0,305885	-56,3097	0	2,46694	1,53086
10	246,638	-17,567	0	172.001,96	20,7596	0,324754	-56,2661	0	2,46734	1,53078
10	246,738	-17,3202	0	171.625,17	21,3861	0,343595	-56,2226	0	2,46773	1,53071
10	246,838	-17,0734	0	171.248,43	21,997	0,362416	-56,1791	0	2,46812	1,53063
10	246,938	-16,8266	0	170.871,71	22,594	0,381209	-56,1357	0	2,46851	1,53056
10	247,058	-16,5303	0	170.419,78	23,2935	0,403724	-56,0835	0	2,46898	1,53047
10	247,202	-16,1748	0	169.877,16	24,1108	0,430684	-56,0209	0	2,46954	1,53036
10	247,375	-15,748	0	169.225,29	25,063	0,462951	-55,9457	0	2,47022	1,53023
10	247,582	-15,2357	0	168.442,32	26,1694	0,501544	-55,8554	0	2,47103	1,53007
10	247,831	-14,6207	0	167.511,77	27,4502	0,54766	-55,7534	0	2,47199	1,52992
10	248,13	-13,8824	0	166.679,27	28,9297	0,601221	-55,8203	0	2,47298	1,5309
10	248,488	-12,9962	0	166.183,73	30,633	0,66182	-56,2361	0	2,47389	1,53416
10	248,918	-11,9322	0	166.161,24	32,5913	0,72905	-57,09	0	2,4747	1,54025
10	249,434	-10,6551	0	166.576,35	34,8336	0,804262	-58,0915	0	2,47559	1,54719
10	250,053	-9,12187	0	167.270,71	37,3883	0,890093	-58,8576	0	2,47676	1,55231
10	250,796	-7,28103	0	168.060,38	40,2836	0,989187	-59,1987	0	2,47841	1,55431
10	251,688	-5,07024	0	168.701,80	43,5922	1,10383	-58,9382	0	2,48073	1,55201
10	252,758	-2,41425	0	168.734,69	47,6556	1,23242	-57,6766	0	2,48415	1,54287
10	253,729	2,07026E-14	0	167.786,06	51,4713	1,34474	-55,5909	0	2,48806	1,52866



10	253,7 29	2,07026 E-14	0	168.29 5,93	51,378	1,3436 3	-55,6652	0	2,4907 9	1,5288 2
10	254,0 42	0,77938 9	0	167.72 1,09	52,6323	1,3796 4	-54,8118	0	2,4919 1	1,5231 7
10	255,5 83	4,62605	0	162.13 0,92	58,8948	1,5563 6	-49,3915	0	2,5011 4	1,4894 8
10	257,4 31	9,32885	0	151.74 8,43	66,4505	1,7389	-40,7545	0	2,5898 2	1,4398 9
10	259,6 5	15,2084	0	135.42 5,48	75,285	1,9958 3	-28,1345	0	2,7114 6	1,3742 2
10	262,0 77	21,9685	0	112.64 4,28	84,258	2,3498 2	-12,0056	0	2,8623 8	1,2995 8
10	262,0 77	21,9685	0	112.64 4,28	84,258	2,3498 2	-12,0056	0	2,8623 9	1,2995 8
10	262,3 12	22,6449	0	109.83 8,84	85,0108	2,3908 7	-10,1151	0	2,8794 1	1,2913 6
10	265,5 07	32,1987	0	77.819, 33	94,5828	2,9988 1	5,24889	0	3,0955 5	1,2307 1
10	269,3 41	44,4916	0	54.429, 02	104,088	3,7527 2	12,4953	0	3,3100 3	1,2062 5
10	273,9 41	60,2225	0	38.263, 40	114,162	4,6454 6	16,2571	0	3,5224 3	1,1950 4
10	277,5 24	73,103	0	30.279, 25	121,529	5,3295 3	17,8208	0	3,6651 7	1,1908 2
10	277,5 24	73,103	0	30.279, 25	121,529	5,3295 3	17,8208	0	3,6651 7	1,1908 2
10	279,4 62	80,2756	0	26.985, 25	125,268	5,7071 8	18,4206	0	3,7382 3	1,1893
10	282,4 15	91,4805	0	22.650, 29	130,322	6,3275 8	19,1325	0	3,8509 5	1,1876
10	286,0 87	105,897	0	18.727, 90	135,545	7,1537	19,7679	0	3,9892 8	1,1861 9
10	294,0 36	138,738	0	13.094, 88	142,668	9,0969 2	21,769	0	4,2743 7	1,1803 6
10	300,2 99	166,21	0	10.124, 42	145,352	10,843 7	22,7846	0	4,4954 9	1,1775 3
11	244,9	-	0	1,00	0,00177	0,1863	24,6396	0	2,5820	1,1739



	39	21,7559			245	1			8	6
11	245,0	-	0	177.46	4,93917	0,0194	-56,9369	0	2,4609	1,5320
	39	21,5097		8,18		089			9	7
11	245,1	-	0	177.35	6,99109	0,0387	-56,9144	0	2,4614	1,5319
	39	21,2635		5,45		239				8
11	245,2	-	0	177.05	8,57379	0,0579	-56,8754	0	2,4617	1,5318
	39	21,0174		2,88		981			9	8
11	245,3	-	0	176.69	9,91449	0,0772	-56,8317	0	2,4622	1,5317
	39	20,7712		5,10		29				9
11	245,4	-	0	176.32	11,0974	0,0964	-56,7878	0	2,4626	1,5317
	39	20,5249		6,49		564			1	1
11	245,5	-	0	175.95	12,1711	0,1156	-56,7445	0	2,463	1,5316
	39	20,2787		7,66		5				3
11	245,6	-	0	175.58	13,1636	0,1347	-56,7012	0	2,4633	1,5315
	39	20,0323		6,01		95			9	5
11	245,7	-19,786	0	175.21	14,0903	0,1539	-56,6574	0	2,4637	1,5314
	39			0,86		14			9	7
11	245,8	-	0	174.83	14,9628	0,1730	-56,6136	0	2,4641	1,5314
	39	19,5396		4,37		17			9	
11	245,9	-	0	174.45	15,7904	0,1920	-56,57	0	2,4645	1,5313
	39	19,2931		8,48		98			9	2
11	246,0	-	0	174.08	16,5802	0,2111	-56,5266	0	2,4649	1,5312
	39	19,0467		3,58		49			8	4
11	246,1	-	0	173.70	17,3379	0,2301	-56,4833	0	2,4653	1,5311
	39	18,8002		8,98		63			7	7
11	246,2	-	0	173.33	18,0673	0,2491	-56,4399	0	2,4657	1,5310
	39	18,5536		3,94		42			6	9
11	246,3	-18,307	0	172.95	18,7721	0,2680	-56,3965	0	2,4661	1,5310
	39			8,85		83			6	1
11	246,4	-	0	172.58	19,4543	0,287	-56,3531	0	2,4665	1,5309
	39	18,0604		3,42					5	4
11	246,5	-	0	172.20	20,1164	0,3058	-56,3097	0	2,4669	1,5308
	39	17,8137		7,50		85			4	6
11	246,6	-17,567	0	171.83	20,7596	0,3247	-56,2661	0	2,4673	1,5307
	39			1,20		54			4	8
11	246,7	-	0	171.45	21,3861	0,3435	-56,2226	0	2,4677	1,5307
	39	17,3202		4,79		95			3	1
11	246,8	-	0	171.07	21,997	0,3624	-56,1791	0	2,4681	1,5306



	39	17,0734		8,42		16			2	3
11	246,939	-16,8266	0	170.702,07	22,594	0,381209	-56,1357	0	2,46851	1,53056
11	247,059	-16,5303	0	170.250,59	23,2935	0,403724	-56,0835	0	2,46898	1,53047
11	247,203	-16,1748	0	169.708,51	24,1108	0,430684	-56,0209	0	2,46954	1,53036
11	247,376	-15,748	0	169.057,29	25,063	0,462951	-55,9457	0	2,47022	1,53023
11	247,583	-15,2357	0	168.275,10	26,1694	0,501544	-55,8554	0	2,47103	1,53007
11	247,832	-14,6207	0	167.345,47	27,4502	0,54766	-55,7534	0	2,47199	1,52992
11	248,131	-13,8824	0	166.513,79	28,9297	0,601221	-55,8203	0	2,47298	1,53098
11	248,489	-12,9962	0	166.018,74	30,633	0,66182	-56,2361	0	2,47389	1,53416
11	248,919	-11,9322	0	165.996,28	32,5913	0,72905	-57,09	0	2,4747	1,54025
11	249,435	-10,6551	0	166.410,97	34,8336	0,804262	-58,0915	0	2,47559	1,54719
11	250,054	-9,12187	0	167.104,65	37,3883	0,890093	-58,8576	0	2,47676	1,55231
11	250,797	-7,28103	0	167.893,53	40,2836	0,989187	-59,1987	0	2,47841	1,55431
11	251,689	-5,07024	0	168.534,32	43,5922	1,10383	-58,9382	0	2,48073	1,55201
11	252,759	-2,41425	0	168.567,18	47,6556	1,23242	-57,6766	0	2,48415	1,54287
11	253,73	2,07026 E-14	0	167.619,49	51,4713	1,34474	-55,5909	0	2,48806	1,5286
11	253,73	2,07026 E-14	0	168.128,85	51,378	1,34363	-55,6652	0	2,49079	1,52882
11	254,043	0,779389	0	167.554,58	52,6323	1,37964	-54,8118	0	2,49191	1,52317
11	255,584	4,62605	0	161.969,96	58,8948	1,55636	-49,3915	0	2,50114	1,48948
11	257,4	9,32885	0	151.59	66,4505	1,7389	-40,7545	0	2,5898	1,4398



	32			7,78					2	9
11	259,6 51	15,2084	0	135.29 1,03	75,285	1,9958 3	-28,1345	0	2,7114 6	1,3742 2
11	262,0 78	21,9685	0	112.53 2,45	84,258	2,3498 2	-12,0056	0	2,8623 8	1,2995 8
11	262,0 78	21,9685	0	112.53 2,45	84,258	2,3498 2	-12,0056	0	2,8623 9	1,2995 8
11	262,3 13	22,6449	0	109.72 0,96	85,0108	2,3908 7	-10,1151	0	2,8794 1	1,2913 6
11	265,5 08	32,1987	0	77.646, 64	94,5828	2,9988 1	5,24889	0	3,0955 5	1,2307 1
11	269,3 42	44,4916	0	54.218, 65	104,088	3,7527 2	12,4953	0	3,3100 3	1,2062 5
11	273,9 42	60,2225	0	38.059, 38	114,162	4,6454 6	16,2571	0	3,5224 3	1,1950 4
11	277,5 25	73,103	0	30.127, 80	121,529	5,3295 3	17,8208	0	3,6651 7	1,1908 2
11	277,5 25	73,103	0	30.127, 80	121,529	5,3295 3	17,8208	0	3,6651 7	1,1908 2
11	279,4 63	80,2756	0	26.807, 90	125,268	5,7071 8	18,4206	0	3,7382 3	1,1893
11	282,4 16	91,4805	0	22.663, 31	130,322	6,3275 8	19,1325	0	3,8509 5	1,1876
11	286,0 88	105,897	0	18.558, 86	135,545	7,1537	19,7679	0	3,9892 8	1,1861 9
11	294,0 37	138,738	0	13.031, 45	142,668	9,0969 2	21,769	0	4,2743 7	1,1803 6
11	300,3	166,21	0	10.237, 71	145,352	10,843 7	22,7846	0	4,4954 9	1,1775 3
12	257,7 82	- 21,9685	0	1,00	0,00177 245	0,1863 1	24,6396	0	2,5820 8	1,1739 6
12	257,8 82	- 21,7199	0	146.60 5,06	4,9645	0,0189 608	-53,791	0	2,4852 1	1,5289 3
12	257,9 82	- 21,4713	0	146.32 4,60	7,0269	0,0378 261	-53,7551	0	2,4857	1,5288 5
12	258,0 82	- 21,2227	0	145.85 9,42	8,61632	0,0566 377	-53,6987	0	2,4862 3	1,5287 3

12	258,1 82	- 20,9741	0	145.36 6,43	9,95763	0,0754 52	-53,6406	0	2,4867 4	1,5286 3
12	258,2 82	- 20,7254	0	144.87 6,68	11,1406	0,0942 77	-53,5836	0	2,4872 3	1,5285 3
12	258,3 82	- 20,4766	0	144.38 3,93	12,2179	0,1130 2	-53,5266	0	2,4877 2	1,5284 3
12	258,4 82	- 20,2278	0	143.87 7,92	13,2156	0,1316 86	-53,4679	0	2,4882 4	1,5283 3
12	258,5 82	-19,979 19,7301	0	143.36 6,80	14,1425	0,1503 66	-53,4087	0	2,4887 5	1,5282 3
12	258,6 82	- 19,7301	0	142.85 8,43	15,0137	0,1690 44	-53,3501	0	2,4892 5	1,5281 3
12	258,7 82	- 19,4811	0	142.35 4,10	15,8396	0,1876 99	-53,292	0	2,4897 5	1,5280 3
12	258,8 82	- 19,2321	0	141.85 6,87	16,627	0,2063 4	-53,235	0	2,4902 4	1,5279 4
12	258,9 82	- 18,9831	0	141.36 5,41	17,3817	0,2249 53	-53,1788	0	2,4907 1	1,5278 4
12	259,0 82	-18,734 18,4848	0	140.87 7,69	18,1084	0,2435 24	-53,123	0	2,4911 9	1,5277 5
12	259,1 82	- 18,4848	0	140.39 1,54	18,8108	0,2620 46	-53,0674	0	2,4916 6	1,5276 6
12	259,2 82	- 18,2356	0	139.90 5,63	19,4913	0,2805 24	-53,0118	0	2,4921 3	1,5275 7
12	259,3 82	- 17,9864	0	139.42 0,33	20,1507	0,2989 86	-52,9563	0	2,4926 7	1,5274 7
12	259,4 82	- 17,7371	0	138.93 4,30	20,7918	0,3174 1	-52,9006	0	2,4930 7	1,5273 8
12	259,5 82	- 17,4878	0	138.44 9,20	21,4156	0,3358 12	-52,8451	0	2,4935 5	1,5272 9
12	259,6 82	- 17,2384	0	137.96 4,83	22,024	0,3541 86	-52,7896	0	2,4940 2	1,5272
12	259,7 82	-16,989 16,6896	0	137.47 8,61	22,6199	0,3724 86	-52,734	0	2,4944 9	1,5271 1
12	259,9 02	- 16,6896	0	136.89 8,19	23,3173	0,3944 25	-52,6677	0	2,4950 5	1,527
12	260,0 46	- 16,3303	0	136.20 3,81	24,1324	0,4206 76	-52,5883	0	2,4957 2	1,5268 7



12	260,2 18	-15,899	0	135.37 9,42	25,0795	0,4521 65	-52,4942	0	2,4965 1	1,5267 2
12	260,4 26	- 15,3812	0	134.39 5,82	26,1785	0,4898 39	-52,382	0	2,4974 5	1,5265 3
12	260,6 75	- 14,7596	0	133.22 5,29	27,4489	0,5349 28	-52,2486	0	2,4985 6	1,5263 2
12	260,9 73	- 14,0133	0	131.99 0,26	28,9137	0,5878 67	-52,2176	0	2,4997 9	1,5268 5
12	261,3 31	- 13,1174	0	130.91 6,73	30,6015	0,6479 64	-52,5054	0	2,5010 3	1,5295
12	261,7 61	- 12,0417	0	130.11 5,61	32,5432	0,7147 04	-53,2241	0	2,5022 9	1,535
12	262,2 77	- 10,7502	0	129.57 0,02	34,769	0,7888 43	-54,1737	0	2,5036 8	1,5420 1
12	262,8 97	- 9,19943	0	129.14 5,01	37,3066	0,8729 45	-54,9141	0	2,5053 8	1,5475 2
12	263,6 4	- 7,33713	0	128.67 0,63	40,1875	0,9696 45	-55,2197	0	2,5075 1	1,5499 8
12	264,5 31	-5,1002	0	127.92 2,69	43,4722	1,0816 2	-54,884	0	2,5102 4	1,5480 5
12	265,6 01	- 2,41251	0	126.53 8,43	47,4787	1,2077 7	-53,5267	0	2,5138 6	1,5393
12	266,8 85	0,81817 6	0	123.93 7,72	52,4953	1,3524 1	-50,5392	0	2,5187 7	1,5201 5
12	268,4 26	4,70378	0	119.42 2,31	58,6864	1,5283 7	-45,2716	0	2,5252 8	1,4875 5
12	270,2 75	9,43378	0	112.00 8,82	66,1782	1,7174 4	-37,0016	0	2,6001 5	1,4394 7
12	272,4 93	15,3309	0	100.36 4,48	74,9747	1,9728 9	-25,0192	0	2,7170 6	1,3757 8
12	274,8 76	21,9685	0	84.083, 00	83,8253	2,3136 1	-10,2491	0	2,8586 5	1,3052 2
12	274,8 76	21,9685	0	84.083, 00	83,8253	2,3136 1	-10,2491	0	2,8586 5	1,3052 2
12	275,1 56	22,7721	0	81.559, 41	84,7254	2,3616 3	-8,13974	0	2,878	1,2956 9
12	278,3 5	32,3112	0	57.603, 13	94,4451	2,9563 3	6,19409	0	3,0863 3	1,2357 7

12	282,184	44,5644	0	40.003,82	104,351	3,70327	13,0529	0	3,29887	1,21019
12	286,785	60,2406	0	27.950,84	114,966	4,58547	16,6138	0	3,5099	1,19796
12	289,906	71,3928	0	22.712,85	121,763	5,17396	17,9382	0	3,63511	1,19368
12	292,305	80,229	0	19.624,17	126,865	5,62359	18,6547	0	3,72272	1,19144
12	293,125	83,2919	0	18.717,66	128,594	5,77525	18,8573	0	3,75134	1,19082
12	293,125	83,2919	0	18.717,66	128,594	5,77526	18,8573	0	3,75134	1,19082
12	298,93	105,651	0	13.758,61	139,417	6,91292	19,9036	0	3,95037	1,18773
12	304,874	129,728	0	10.485,11	147,325	8,21532	21,5125	0	4,15118	1,18253
13	290,954	-21,9685	0	1,00	0,00177245	0,18631	24,6396	0	2,58208	1,17396
13	291,054	-21,7154	0	84.152,52	5,00444	0,0181734	-47,5105	0	2,52963	1,5233
13	291,154	-21,4625	0	84.027,41	7,08498	0,03625	-47,5036	0	2,52986	1,52333
13	291,254	-21,2095	0	83.815,14	8,68286	0,0543399	-47,4796	0	2,53008	1,5233
13	291,354	-20,9565	0	83.585,92	10,0358	0,0723925	-47,4531	0	2,53029	1,52325
13	291,454	-20,7034	0	83.345,46	11,233	0,0904061	-47,4253	0	2,53052	1,52321
13	291,554	-20,4504	0	83.100,12	12,3171	0,108414	-47,3971	0	2,53074	1,52316
13	291,654	-20,1973	0	82.854,59	13,3152	0,126419	-47,3689	0	2,53096	1,52312
13	291,754	-19,9442	0	82.610,06	14,2468	0,144405	-47,3409	0	2,53118	1,52307
13	291,854	-19,691	0	82.365,86	15,1247	0,162364	-47,3129	0	2,5314	1,52303
13	291,9	-	0	82.121,	15,9581	0,1802	-47,285	0	2,5316	1,5229

	54	19,4379		29		92			2	9
13	292,0	-	0	81.876,	16,753	0,1981	-47,257	0	2,5318	1,5229
	54	19,1847		22		99			4	4
13	292,1	-	0	81.630,	17,5139	0,2160	-47,2289	0	2,5320	1,5229
	54	18,9315		79		97			5	
13	292,2	-	0	81.385,	18,245	0,2339	-47,2009	0	2,5322	1,5228
	54	18,6783		47		86			7	5
13	292,3	-	0	81.140,	18,95	0,2518	-47,1729	0	2,5324	1,5228
	54	18,4251		49		6			9	1
13	292,4	-	0	80.896,	19,6318	0,2697	-47,145	0	2,5327	1,5227
	54	18,1718		00		19			1	7
13	292,5	-	0	80.651,	20,293	0,2875	-47,1172	0	2,5329	1,5227
	54	17,9185		95		57			2	2
13	292,6	-	0	80.408,	20,9358	0,3053	-47,0894	0	2,5331	1,5226
	54	17,6652		16		71			4	8
13	292,7	-	0	80.164,	21,5617	0,3231	-47,0616	0	2,5333	1,5226
	54	17,4119		46		63			5	4
13	292,8	-	0	79.920,	22,1721	0,3409	-47,0338	0	2,5335	1,5225
	54	17,1585		81		33			7	9
13	292,9	-	0	79.677,	22,7686	0,3586	-47,0061	0	2,5337	1,5225
	54	16,9052		35		77			8	5
13	293,0	-	0	79.385,	23,4669	0,3799	-46,9728	0	2,5340	1,5225
	74	16,6011		35		49			4	
13	293,2	-	0	79.035,	24,2822	0,4054	-46,933	0	2,5343	1,5224
	18	16,2362		76		38			5	4
13	293,3	-	0	78.618,	25,2302	0,4359	-46,8854	0	2,5347	1,5223
	91	15,7982		24		87			2	6
13	293,5	-	0	78.119,	26,3295	0,4725	-46,8288	0	2,5351	1,5222
	98	15,2726		93		82			5	8
13	293,8	-	0	77.526,	27,5995	0,5164	-46,7613	0	2,5356	1,5221
	47	14,6417		18		15			7	7
13	294,1	-	0	76.843,	29,0636	0,5685	-46,7148	0	2,5362	1,5222
	46	13,8844		55		94			7	7
13	294,5	-	0	76.206,	30,7487	0,6287	-46,9018	0	2,5369	1,5239
	04	12,9756		52		59				
13	294,9	-	0	75.777,	32,6845	0,6954	-47,5753	0	2,5374	1,5287
	34	11,8846		25		84			9	2
13	295,4	-	0	75.552,	34,8995	0,7694	-48,5516	0	2,5381	1,5355



	5	10,5751		91		28			1	1
13	296,0 69	- 9,00338	0	75.455, 25	37,4216	0,8531 61	-49,3541	0	2,5388 7	1,5410 9
13	296,8 12	- 7,11662	0	75.364, 80	40,2808	0,9493 11	-49,7367	0	2,5398 6	1,5437 9
13	297,7 04	- 4,85145	0	75.143, 18	43,5425	1,0604 3	-49,4996	0	2,5411 9	1,5422 8
13	298,7 74	- 2,13156	0	74.567, 96	47,5091	1,1860 6	-48,2704	0	2,5430 2	1,5341 8
13	300,0 58	1,13511	0	73.294, 70	52,4565	1,3304 6	-45,4866	0	2,5456	1,5161 2
13	301,5 98	5,05994	0	70.853, 21	58,5768	1,5059	-40,4792	0	2,5491 5	1,4848 1
13	303,4 47	9,81819	0	66.640, 37	66,0106	1,6987 6	-32,5746	0	2,6122 9	1,4381 8
13	305,6 66	15,7382	0	59.761, 95	74,7542	1,9529 7	-21,1326	0	2,7255 4	1,3759 7
13	307,9 01	21,9685	0	50.508, 11	83,064	2,2689 8	-8,06946	0	2,8535 1	1,3111
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13	308,3 28	23,1964	0	48.170, 55	84,4445	2,3412 4	-5,15689	0	2,8815 3	1,2973 3
13	311,5 23	32,7317	0	33.937, 14	94,2717	2,9236 3	7,58089	0	3,0808 5	1,2402 6
13	315,3 57	44,9573	0	23.453, 82	104,545	3,6632 8	13,8225	0	3,2903 2	1,2141
13	315,7 13	46,133	0	22.741, 55	105,444	3,7313 4	14,1794	0	3,3079 1	1,2126 4
13	319,9 57	60,5973	0	16.312, 04	115,673	4,5364 4	17,0853	0	3,4999	1,2009 6
13	325,4 78	80,5162	0	11.413, 85	128,207	5,5603 5	18,9584	0	3,7109 8	1,1936 7
13	326,3 7	83,8415	0	10.838, 54	130,186	5,7235 3	19,1602	0	3,7419 6	1,1929
14	511,3 56	- 21,9685	0	1,00	0,00177	0,1863 05	24,6322	0	2,5820 8	1,1739 9

14	511,456	-21,7106	0	6.801,50	5,0498	0,017078	-42,0465	0	2,57813	1,53213
14	511,556	-21,4528	0	6.773,23	7,15006	0,0341597	-42,0676	0	2,57815	1,53229
14	511,656	-21,195	0	6.751,48	8,76581	0,051226	-42,0697	0	2,57817	1,53231
14	511,756	-20,9372	0	6.731,28	10,1293	0,0682957	-42,0693	0	2,57818	1,53232
14	511,856	-20,6794	0	6.711,73	11,3348	0,0853394	-42,0682	0	2,5782	1,53233
14	511,956	-20,4216	0	6.692,42	12,4272	0,102373	-42,0669	0	2,57821	1,53233
14	512,056	-20,1637	0	6.673,27	13,4329	0,119409	-42,0654	0	2,57823	1,53233
14	512,156	-19,9059	0	6.654,29	14,3711	0,136434	-42,0638	0	2,57824	1,53233
14	512,256	-19,6481	0	6.635,35	15,255	0,153438	-42,0623	0	2,57826	1,53233
14	512,356	-19,3903	0	6.616,48	16,0937	0,170422	-42,0607	0	2,57827	1,53233
14	512,456	-19,1324	0	6.597,63	16,8934	0,187395	-42,0591	0	2,57828	1,53233
14	512,556	-18,8746	0	6.578,78	17,6585	0,204368	-42,0575	0	2,5783	1,53233
14	512,656	-18,6168	0	6.559,95	18,3936	0,221335	-42,0558	0	2,57831	1,53233
14	512,756	-18,3589	0	6.541,17	19,1022	0,238296	-42,0542	0	2,57833	1,53233
14	512,856	-18,1011	0	6.522,42	19,7875	0,255247	-42,0526	0	2,57834	1,53233
14	512,956	-17,8433	0	6.503,69	20,4519	0,272182	-42,051	0	2,57836	1,53233
14	513,056	-17,5854	0	6.484,96	21,0977	0,289102	-42,0494	0	2,57837	1,53233
14	513,156	-17,3276	0	6.466,24	21,7266	0,306004	-42,0477	0	2,57839	1,53233
14	513,256	-17,0698	0	6.447,53	22,3399	0,322889	-42,0461	0	2,5784	1,53233

14	513,3 56	- 16,8119	0	6.428,8 4	22,9386	0,3397 66	-42,0445	0	2,5784 2	1,5323 3
14	513,4 76	- 16,5025	0	6.406,4 1	23,6393	0,3600 04	-42,0426	0	2,5784 3	1,5323 3
14	513,6 2	- 16,1312	0	6.379,5 0	24,4569	0,3842 72	-42,0402	0	2,5784 6	1,5323 3
14	513,7 93	- 15,6857	0	6.347,2 2	25,4068	0,4133 81	-42,0374	0	2,5784 8	1,5323 3
14	514,0 01	-15,151	0	6.308,5 2	26,5072	0,4482 84	-42,0341	0	2,5785 1	1,5323 3
14	514,2 49	- 14,5094	0	6.262,1 4	27,7782	0,4901 14	-42,03	0	2,5785 5	1,5323 3
14	514,5 48	- 13,7394	0	6.208,8 4	29,2416	0,5399 63	-42,0616	0	2,5785 9	1,5325 7
14	514,9 06	- 12,8154	0	6.157,5 6	30,9233	0,5978 12	-42,3026	0	2,5786 3	1,5342 1
14	515,3 36	- 11,7067	0	6.123,9 0	32,8536	0,6620 32	-43,0459	0	2,5786 8	1,5391 9
14	515,8 52	- 10,3761	0	6.106,4 7	35,0606	0,7335 78	-44,062	0	2,5787 2	1,5460 4
14	516,4 71	- 8,77941	0	6.103,5 1	37,5713	0,8139 73	-45,0054	0	2,5787 7	1,5524 4
14	517,2 14	- 6,86334	0	6.106,2 7	40,4118	0,9058 75	-45,5738	0	2,5788 4	1,5563 2
14	518,1 06	- 4,56398	0	6.102,4 9	43,6342	1,0122 2	-45,5284	0	2,5789 3	1,5560 1
14	519,1 76	- 1,80463	0	6.071,6 3	47,5561	1,1325	-44,4648	0	2,5790 6	1,5487 9
14	520,4 6	1,5068	0	5.980,8 5	52,4712	1,2716 2	-41,7391	0	2,5792 5	1,5305 7
14	522,0 01	5,48086	0	5.788,7 5	58,5483	1,4429 1	-36,7106	0	2,5795 2	1,4980 5
14	523,8 49	10,2683	0	5.446,1 8	65,9451	1,6459 7	-28,8541	0	2,6149	1,4498 4
14	526,0 68	16,1892	0	4.872,1 3	74,7046	1,8948 7	-17,6603	0	2,7231 7	1,3858 9
14	528,1 48	21,9685	0	4.145,5 6	82,5206	2,1826 9	-6,06859	0	2,8364 8	1,3242

14	528,1 48	21,9685	0	4.145,5 6	82,5206	2,1826 7	-6,06859	0	2,8365 1	1,3242
14	528,1 48	21,9687	0	4.145,5 2	82,5209	2,1826 8	-6,06805	0	2,8365 2	1,3242
14	528,7 3	23,6324	0	3.881,5 5	84,4202	2,2783 9	-2,45528	0	2,8719 1	1,3056 2
14	531,9 25	33,1254	0	2.723,3 2	94,4247	2,8429 2	8,94654	0	3,0609 9	1,2483 4
14	534,1 12	39,9544	0	2.174,0 0	100,713	3,2604 9	12,7803	0	3,1839 8	1,2293 1
14	535,7 59	45,2699	0	1.863,7 4	105,2	3,5743 4	14,6363	0	3,2691 5	1,2200 7
14	540,3 59	60,8043	0	1.284,6 3	116,987	4,4381 1	17,6082	0	3,4787 7	1,2052 3
14	545,8 8	80,6108	0	891,71	130,275	5,4525 9	19,3049	0	3,6905 5	1,1967
14	546,7 56	83,8585	0	846,68	132,334	5,6114 2	19,4839	0	3,7210 9	1,1958

