

Dispersion Report

Workspace: 72438-1RiempFSRU-3R

Study: Riempimento FSRU-ME4

Equipment Item: 3R Collettore GNL riempimento FSRU

72438-1RiempFSRU-3R\Riempimento FSRU-ME4\3R Collettore GNL riempimento FSRU

Material	GAS NATURALE	
East	0	m
North	0	m

Scenario (Leak) : 120mm

72438-1RiempFSRU-3R\Riempimento FSRU-ME4\3R Collettore GNL riempimento FSRU\120mm

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	0	0	kg/s	149,509	149,301		29,342

	s							9
2	Continuou s	0,22	-0,461952	kg/s	149,509	149,301		49,884 3
3	Continuou s	53,749 7	-20,5227	kg/s	149,509	149,301		122,62 6
4	Continuou s	86,418 6	-24,7647	kg/s	149,509	149,301		124,85 1
5	Continuou s	120,75 5	-27,1046	kg/s	149,509	149,301		127,18 1
6	Continuou s	154,58 7	-29,0762	kg/s	149,509	149,301		126,59 6
7	Continuou s	187,83	-30,7231	kg/s	149,509	149,301		105,01 3
8	Continuou s	194,23 8	-31,0148	kg/s	149,509	149,301		99,672 9
9	Continuou s	194,23 9	-31,0148	kg/s	0	0	99,464 7	99,464 7
10	Continuou s	207,86 2	-31,6083	kg/s	0	0		87,540 7
11	Continuou s	220,61 9	-32,141	kg/s	0	0		75,962 1
12	Continuou s	253,05 6	-33,3899	kg/s	0	0		47,997 2
13	Continuou s	305,43 5	-33,5915	kg/s	0	0		24,939 7
14	Continuou s	578,18 1	-33,5915	kg/s	0	0		1,9626 2

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

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

Observer number	Time [s]	Down wind distance [m]	C/Li ne height [m]	C/Li ne conc [ppm]	Effecti ve width [m]	Effecti ve depth [m]	C/Line vapour temperature [degC]	C/Li ne liquid fraction	Centr oid velocity [m/s]	C/Lin e cloud density [kg/
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										m3]
1	0	0	0	999.54 7,10	0,1349 88	0,0647 599	-160,259	0	11,718 3	2,0337 1
1	0,01	0,1018	0	958.51 6,68	0,1464 3	0,0875 352	-152,387	0	8,9786 3	1,9330 1
1	0,02	0,18361 6	0	929.67 7,91	0,1593 47	0,1043 5	-146,74	0	7,4994 6	1,8696 2
1	0,03	0,25350 3	0	907.43 6,48	0,1731 31	0,1171 72	-142,311	0	6,5354 4	1,8241 3
1	0,04	0,31524 8	0	889.40 7,50	0,1874 67	0,1272 56	-138,665	0	5,8389 3	1,7890 8
1	0,05	0,37094 1	0	874.33 5,24	0,2021 73	0,1353 58	-135,572	0	5,3045 2	1,7608 4
1	0,06	0,42182 8	0	861.48 0,78	0,2171 38	0,1419 23	-132,894	0	4,8792	1,7373 9
1	0,07	0,46879 7	0	850.34 1,02	0,2322 83	0,1473	-130,539	0	4,5309 9	1,7174 5
1	0,08	0,51256 9	0	840.53 4,79	0,2475 47	0,1518 21	-128,435	0	4,2378 6	1,7001 4
1	0,09	0,55366	0	831.79 4,68	0,2628 88	0,1557 13	-126,53	0	3,9859 6	1,6848 3
1	0,1	0,59244 3	0	823.93 0,91	0,2782 81	0,1591 19	-124,789	0	3,7662 6	1,6711 3
1	0,11	0,62918 2	0	816.80 8,26	0,2937 06	0,1620 94	-123,187	0	3,5733 6	1,6587 4
1	0,12	0,6641	0	810.31 8,46	0,3091 49	0,1647 13	-121,703	0	3,4023 8	1,6474 3
1	0,13	0,69739 3	0	804.37 0,90	0,3245 99	0,1670 39	-120,32	0	3,2495 6	1,6370 2
1	0,14	0,72921 3	0	798.89 6,12	0,3400 46	0,1691 11	-119,024	0	3,1121 3	1,6273 8
1	0,15	0,7597	0	793.83 3,45	0,3554 82	0,1709 69	-117,803	0	2,9877 8	1,6183 9
1	0,16	0,78898 1	0	789.13 0,78	0,3708 99	0,1726 52	-116,649	0	2,8745 7	1,6099 5
1	0,17	0,81718 4	0	784.73 8,72	0,3862 92	0,1742 08	-115,55	0	2,7706 8	1,6019 8
1	0,18	0,84438	0	780.62	0,4016	0,1756	-114,502	0	2,6751	1,5944



		3		7,52	58	42			5	3
1	0,19	0,87067	0	776.76	0,4169	0,1769	-113,497	0	2,5867	1,5872
		5		1,35	91	89			1	3
1	0,2	0,89611	0	773.12	0,4322	0,1782	-112,533	0	2,5047	1,5803
		3		0,60	91	47			7	5
1	0,212	0,92561	0	769.01	0,4506	0,1796	-111,421	0	2,4138	1,5724
				4,37	03	68			3	7
1	0,226	0,95965	0	764.42	0,4725	0,1812	-110,145	0	2,3139	1,5634
	4	2		2,11	06	71			6	7
1	0,243	0,99871	0	759.33	0,4986	0,1830	-108,687	0	2,2057	1,5532
	68	4		8,71	81	62			4	3
1	0,264	1,04328	0	753.77	0,5299	0,1850	-107,026	0	2,0900	1,5416
	416			0,86	28	46			9	4
1	0,289	1,09381	0	747.74	0,5671	0,1872	-105,147	0	1,9684	1,5286
	299			4,05	8	1			4	1
1	0,319	1,15073	0	741.29	0,6115	0,1895	-103,053	0	1,8422	1,5142
	159			3,79	23	34			8	6
1	0,354	1,21442	0	734.47	0,6642	0,1919	-100,751	0	1,7136	1,4987
	991			8,64	13	72				
1	0,397	1,28523	0	727.37	0,7266	0,1944	-98,2368	0	1,5845	1,4819
	989			2,90	8	71			9	6
1	0,449	1,36357	0	719.91	0,8005	0,1971	-95,4805	0	1,4565	1,4639
	587			9,97	36	63			5	3
1	0,511	1,44978	0	711.32	0,8876	0,2006	-92,3098	0	1,3301	1,4439
	504			9,61	04	65			5	3
1	0,585	1,54396	0	700.70	0,9899	0,2054	-88,542	0	1,2077	1,4214
	805			6,72	16	39			4	2
1	0,674	1,64628	0	687.99	1,1095	0,2113	-84,1644	0	1,0926	1,3967
	966			0,47	8	08			7	1
1	0,781	1,75724	0	672.53	1,2486	0,2187	-79,0629	0	0,9859	1,3698
	959			2,20	3	19			57	4
1	0,910	1,87742	0	653.84	1,4087	0,2277	-73,1692	0	0,8897	1,3411
	351			0,65	1	79			02	5
1	1,064	2,00788	0	631.19	1,5905	0,2389	-66,3933	0	0,8047	1,3110
	42			2,96	4	59			11	4
1	1,249	2,14977	0	603.72	1,7931	0,2526	-58,6526	0	0,7323	1,2800
	31			5,22	2	97			27	7
1	1,471	2,30513	0	570.33	2,0119	0,2701	-49,867	0	0,6727	1,2489



	17			7,51	6	81			68	7
1	1,737 4	2,47738	0	530.86 5,48	2,2360 4	0,2931 2	-40,1964	0	0,6254 84	1,2190 9
1	2,056 88	2,67113	0	488.58 6,01	2,4422 1	0,3220 3	-30,4776	0	0,5900 38	1,1929 1
1	2,318 62	2,823	0	458.11 1,02	2,5473 9	0,3491 05	-23,9562	0	0,5715 14	1,1775 5
1	2,318 62	2,823	0	458.11 1,02	2,5473 9	0,3491 05	-23,9562	0	0,5715 14	1,1775 5
1	2,440 26	2,89212	0	444.75 0,16	2,5685 5	0,3646 63	-21,2702	0	0,5649 8	1,1718 5
1	2,900 31	3,14764	0	389.29 1,60	2,6290 2	0,4363 34	-11,6829	0	0,5473 15	1,1560 6
1	3,452 37	3,44637	0	332.62 2,08	2,7039 8	0,5226 85	-3,73888	0	0,5361 59	1,1484 1
1	3,910 54	3,69074	0	296.88 0,73	2,7600 8	0,5884 25	0,348202	0	0,5310 92	1,1473 7
1	3,910 54	3,69074	0	296.88 0,73	2,7600 8	0,5884 25	0,348202	0	0,5310 92	1,1473 7
1	4,114 84	3,79799	0	308.98 5,65	2,7619 8	0,6467 5	-2,32263	0	0,5169 78	1,1536 7
1	4,909 81	4,17861	0	441.94 2,13	3,0419	0,8449 67	-34,0825	0	0,4409 43	1,2371 3
1	5,863 77	4,56493	0	577.70 1,95	3,9485 8	0,9156 76	-69,8271	0	0,3743 95	1,3683 3
1	7,008 53	4,96495	0	678.23 0,39	5,0396 4	0,9897 43	-95,1199	0	0,3292 17	1,4917 1
1	8,382 23	5,39585	0	747.99 6,97	6,0495 3	1,1113 1	-112,123	0	0,3011 37	1,5966 3
1	10,03 07	5,87517	0	796.05 3,29	6,6680 6	1,3393	-123,513	0	0,2830 8	1,6806
1	12,00 88	6,42214	0	829.90 7,14	7,4408 1	1,5758 8	-131,103	0	0,2709 78	1,7433 2
1	14,38 26	7,06786	0	854.16 0,46	8,4476 1	1,7254 4	-136,3	0	0,2764 19	1,7898 7
1	17,23 11	7,87672	0	871.07 3,54	9,6468	1,8433 3	-139,827	0	0,2913 63	1,8234 2
1	20,64	8,90539	0	881.49	10,959	1,9778	-141,992	0	0,3105	1,8450



	93			5,90	5	2			55	5
1	24,75 12	10,2298	0	886.20 4,05	12,293 9	2,1351 9	-143,044	0	0,3353 07	1,8562 1
1	29,13 92	11,9575	0	885.57 4,03	13,520 7	2,3233 9	-143,134	0	0,3670 13	1,8582
1	33,94 35	14,2454	0	879.11 8,02	14,410 6	2,5521 1	-142,262	0	0,4080 44	1,8514 4
1	40,17 24	17,3378	0	864.07 5,92	14,667 4	2,8237 6	-138,298	0	0,4664 97	1,8083 1
1	43,34 77	19,0241	0	851.27 1,62	14,665	2,9261 9	-132,24	0	0,5022 81	1,7383 5
1	43,34 77	19,0241	0	851.27 1,62	14,665	2,9261 9	-132,24	0	0,5022 81	1,7383 5
1	47,34 12	21,7018	0	823.15 5,25	14,644 7	3,0044 8	-116,987	0	0,5639 98	1,5850 7
1	54,86 84	28,0095	0	761.65 2,94	14,888 4	3,1935 4	-89,068	0	0,6680 67	1,3819 5
1	63,27 12	36,7932	0	689.14 7,59	15,339 6	3,4884 6	-61,3209	0	0,7613 2	1,2457
1	73,71 93	48,6244	0	599.73 9,40	15,932 4	3,9048 6	-35,6885	0	0,8455 88	1,1598 3
1	86,72 13	64,273	0	501.87 1,99	16,700 8	4,4312	-14,8767	0	0,9262 45	1,1152 4
1	103	84,7678	0	402.51 8,99	17,691 1	5,0630 5	-1,05769	0	1,0087 9	1,1043 4
1	123,2 48	111,503	0	316.60 6,04	18,961	5,7465 6	7,13207	0	1,0900 4	1,1095 2
1	148,0 88	145,829	0	251.65 0,50	20,562 5	6,3853 9	12,0365	0	1,1615 1	1,1177 8
1	178,4 47	189,767	0	195.19 2,29	22,574 8	7,1246 9	15,3971	0	1,2401 2	1,1281 3
1	215,4 91	246,128	0	147.83 3,40	25,106 9	7,9835 5	17,7109	0	1,3272 4	1,1385 8
1	260,6 97	318,681	0	109.29 1,35	28,301 8	9,0196 8	20,9273	0	1,4265 6	1,1426 4
1	316,0 35	412,388	0	78.901, 45	32,343	10,219 8	22,8464	0	1,5370 8	1,1481 9
1	382,9	533,635	0	55.735,	37,459	11,622	23,9115	0	1,6588	1,1539

	93			41		1			9	
1	464,7 18	690,823	0	38.610, 40	43,942 3	13,256 8	24,4722	0	1,7937	1,1589 8
1	564,0 25	894,93	0	26.294, 53	52,162 9	15,162 8	24,7534	0	1,9422 2	1,1630 9
1	600,3 58	971,738	0	23.203, 39	55,208 2	15,829 9	24,8078	0	1,9924 2	1,1641 8
1	684,9 75	1160,42	0	17.645, 29	62,592 4	17,379 8	24,888	0	2,1056 7	1,1662 2
1	830,7 24	1505,77	0	11.713, 60	75,814 7	19,936 3	24,9492	0	2,2837 2	1,1684 8
1	1019, 43	1955,24	0	7.713,2 5	92,566 9	22,869 3	24,9769	0	2,4766 4	1,1700 6
1	1245, 88	2540	0	5.054,2 4	113,76 2	26,206 6	24,9894	0	2,6840 6	1,1711 3
1	1295, 02	2672,95	0	4.653,1 7	118,50 1	26,905 8	24,9909	0	2,7261 1	1,1713
2	0,22	- 0,46195 2	0	1,00	0,0017 7245	0,9259 14	24,6396	0	0,5195 59	1,1739 6
2	0,32	- 0,44554	0	916.87 1,36	0,5921 2	0,1086 6	-145,501	0	0,0980 5	1,8631 9
2	0,42	- 0,43672 9	0	946.59 1,73	0,9183 98	0,1565 43	-150,968	0	0,0827 133	1,9213 5
2	0,52	- 0,42864 6	0	957.58 4,12	1,2145 4	0,1853 25	-152,957	0	0,0799 28	1,9439 3
2	0,62	- 0,42063 6	0	963.33 8,07	1,4961 4	0,2044 72	-153,99	0	0,0806 897	1,956
2	0,72	- 0,41246 3	0	966.72 2,97	1,7665 9	0,2184 51	-154,596	0	0,0830 076	1,9631 8
2	0,82	- 0,40401 6	0	968.83 0,49	2,0291 5	0,2293 22	-154,972	0	0,0861 157	1,9676 7



2	0,92	-	0	970.18	2,2848	0,2385	-155,189	0	0,0896	1,9701
		0,39523		0,04	5	06			281	3
		1								
2	1,02	-	0	971.03	2,5353	0,2465	-155,278	0	0,0933	1,9708
		0,38608		8,03	7	41			717	2
		3								
2	1,12	-	0	971.57	2,7808	0,2539	-155,278	0	0,0972	1,9702
		0,37655		0,86	1	96			137	4
		4								
2	1,22	-	0	971.87	3,0220	0,2610	-155,219	0	0,1010	1,9688
		0,36664		9,00	2	45			85	2
2	1,32	-	0	972.02	3,2601	0,2676	-155,119	0	0,1049	1,9668
		0,35633		2,92	3	84			62	6
		7								
2	1,42	-	0	972.04	3,4974	0,2738	-154,988	0	0,1088	1,9644
		0,34564		5,99	3	72			19	5
		8								
2	1,52	-	0	971.97	3,7368	0,2794	-154,829	0	0,1126	1,9616
		0,33457		2,47	1	66			58	6
		4								
2	1,62	-	0	971.81	3,9780	0,2845	-154,648	0	0,1164	1,9585
		0,32311		6,80	8	21			91	7
		7								
2	1,72	-	0	971.59	4,2209	0,2891	-154,446	0	0,1203	1,9551
		0,31127		3,92	5	72			13	9
		6								
2	1,82	-	0	971.31	4,4652	0,2935	-154,226	0	0,1241	1,9515
		0,29905		7,68	3	53			08	7
		5								
2	1,92	-	0	970.99	4,7107	0,2977	-153,991	0	0,1278	1,9477
		0,28645		6,54	7	08			78	3
		6								
2	2,02	-	0	970.63	4,9574	0,3016	-153,743	0	0,1316	1,9437
		0,27348		6,33	5	55			25	3
2	2,12	-	0	970.24	5,2051	0,3054	-153,484	0	0,1353	1,9395
		0,26013		2,31	7	21			5	8
		1								
2	2,22	-	0	969.81	5,4538	0,3090	-153,214	0	0,1390	1,9353
		0,24641		9,04	2	38			51	



		1								
2	2,34	-	0	969.27	5,7533	0,3132	-152,877	0	0,1434	1,93
		0,22946		7,25		05			63	
2	2,484	-	0	968.58	6,1141	0,3179	-152,458	0	0,1487	1,9234
		0,20842		4,72	2	85			12	7
		3								
2	2,656	-	0	967.70	6,5489	0,3234	-151,938	0	0,1549	1,9154
	8	0,18218		2,44	6	63			45	8
		6								
2	2,864	-	0	966.58	7,0731	0,3298	-151,293	0	0,1622	1,9056
	16	0,14929		9,28	4	52			94	8
		5								
2	3,112	-	0	965.19	7,7051	0,3373	-150,497	0	0,1709	1,8937
	99	0,10783		2,01	7	02			23	9
		5								
2	3,411	-	0	963.45	8,4675	0,3460	-149,521	0	0,1809	1,8794
	59	0,05529		2,23	4	52			84	8
		03								
2	3,709	2,36492	0	961.67	9,231	0,3546	-148,534	0	0,1906	1,8653
	1	E-18		3,78		73			69	1
2	3,709	2,36492	0	972.61	7,8256	0,0466	-151,927	0	1,9534	1,9100
	1	E-18		9,76	9	311			2	6
2	3,769	0,09439	0	954.21	7,8674	0,0887	-148,416	0	1,2935	1,8711
	91	26		3,33	6	688			8	5
2	4,199	0,45283	0	938.50	8,6643	0,2843	-145,492	0	0,6318	1,8411
	89	5		6,00	2	6			95	1
2	4,715	0,73446	0	940.92	10,000	0,4208	-145,537	0	0,4852	1,8393
	87	6		6,27	7	65			46	5
2	5,335	1,01012	0	943.62	11,833	0,5161	-145,16	0	0,4143	1,8308
	04			3,38	6	7			33	2
2	6,078	1,30143	0	945.39	14,182	0,5793	-144,097	0	0,3744	1,8129
	05			8,05	5	37			84	2
2	6,969	1,62431	0	945.93	17,079	0,6185	-142,244	0	0,3528	1,785
	66			7,70	8	36			34	
2	8,039	1,99616	0	944.91	20,564	0,6417	-139,5	0	0,3441	1,747
	59			0,40	5	18			13	
2	9,323	2,4381	0	941.80	24,685	0,6559	-135,763	0	0,3457	1,6995
	51			9,48	8	81			19	9



2	10,86 42	2,97762	0	935.86 5,82	29,505 3	0,6685 75	-130,933	0	0,3556 61	1,6441 3
2	12,71 31	3,6492	0	926.07 1,50	35,107 8	0,6869 48	-124,958	0	0,3716 26	1,5831 9
2	14,93 17	4,4952	0	911.19 9,37	41,599 9	0,7178 03	-117,827	0	0,3909 74	1,5198 5
2	17,59 4	5,56385	0	889.79 5,32	49,103 8	0,7667 08	-109,525	0	0,4111 64	1,4569 4
2	20,78 88	6,90937	0	860.14 7,32	57,727 6	0,8393 98	-100,006	0	0,4302 45	1,3967 4
2	24,62 26	8,59347	0	819.77 6,07	67,522 6	0,9433 92	-89,0593	0	0,4474 46	1,3403 2
2	29,22 31	10,689	0	764.30 3,11	78,404 6	1,0943 8	-76,1528	0	0,4628 48	1,2877 5
2	34,74 37	13,2848	0	687.94 5,49	89,934 8	1,3240 2	-60,4581	0	0,4770 77	1,2386 2
2	41,36 84	16,4963	0	586.36 6,88	100,52 9	1,6817 9	-41,1563	0	0,4964 64	1,1923 7
2	46,11 51	19,0149	0	451.46 2,80	102,67 8	2,1088 1	-18,5675	0	0,5832 82	1,1556 2
2	46,11 51	19,0149	0	451.46 2,80	102,67 8	2,1088 2	-18,5675	0	0,5832 8	1,1556 2
2	49,31 81	21,0638	0	306.34 4,42	103,76 8	2,7634 7	-0,11879	0	0,6972 37	1,1449 1
2	55,12 4	25,6657	0	170.35 4,41	105,92 6	4,0343 3	11,708	0	0,8807 35	1,1556 2
2	55,12 4	25,6657	0	170.35 4,41	105,92 6	4,0343 1	11,708	0	0,8807 39	1,1556 2
2	58,85 77	29,1298	0	131.37 1,53	107,06 8	4,7435 6	14,4381	0	0,9713 59	1,1608 1
2	70,30 53	41,3221	0	85.960, 40	108,87	6,1539 1	17,3589	0	1,1358 8	1,1674 5
2	84,04 23	57,5122	0	71.776, 74	109,75 9	6,8256 4	18,2864	0	1,2083 9	1,1690 1
2	100,5 27	77,921	0	62.365, 32	110,75 1	7,3952 9	18,9406	0	1,2677 1	1,1699 2
2	120,3 08	103,695	0	53.611, 23	111,98 1	8,0646 5	19,903	0	1,3349 5	1,1695 8

2	144,046	136,089	0	46.984,13	113,5	8,66943	21,0811	0	1,3937	1,16771
2	172,531	176,744	0	40.580,53	115,371	9,37449	22,0723	0	1,46008	1,1665
2	206,713	227,923	0	34.595,52	117,683	10,1806	22,8733	0	1,53346	1,16587
2	247,732	292,52	0	29.157,79	120,546	11,1107	23,5018	0	1,61519	1,16574
2	296,954	374,291	0	24.275,65	124,099	12,1856	23,9782	0	1,7062	1,16602
2	338,464	446,621	0	21.083,65	127,188	13,0643	24,2406	0	1,77813	1,1664
2	356,021	478,155	0	19.873,66	128,52	13,4304	24,3257	0	1,80751	1,16659
2	426,901	610,318	0	16.008,79	134,028	14,8699	24,5706	0	1,91993	1,16734
2	511,957	778,98	0	12.681,76	140,905	16,5335	24,7358	0	2,04437	1,16817
2	614,025	994,748	0	10.039,82	149,504	18,4527	24,841	0	2,18163	1,16903
2	718,097	1228,59	0	7.934,43	158,62	20,3341	24,8988	0	2,31056	1,16973
2	786,638	1389,7	0	6.902,78	164,798	21,5358	24,9226	0	2,39029	1,17011
2	943,893	1779,14	0	5.533,19	179,447	24,1905	24,9552	0	2,56018	1,17079
2	1001,48	1928,26	0	5.052,65	184,963	25,1294	24,9626	0	2,61838	1,17099
3	53,7497	-20,5227	0	1,00	0,00177245	0,925914	24,6396	0	0,519559	1,17396
3	53,8497	-20,4818	0	598.662,82	2,3658	0,0112708	-97,9073	0	0,396501	1,57569
3	53,9497	-20,4421	0	615.830,15	3,34717	0,0211215	-100,588	0	0,396672	1,5876
3	54,0497	-20,4025	0	619.631,75	4,11481	0,0310302	-101,071	0	0,397161	1,58925
3	54,14	-	0	620.71	4,7716	0,0409	-101,169	0	0,3976	1,5893

	97	20,3627		4,37	3	15			61	5
3	54,24	-	0	622.21	5,3594	0,0505	-101,462	0	0,3978	1,5909
	97	20,3229		2,23	7	738			39	8
3	54,34	-	0	626.11	5,8991	0,0596	-102,344	0	0,3974	1,5963
	97	20,2832		1,53	8	672			38	7
3	54,44	-	0	631.16	6,4024	0,0682	-103,489	0	0,3968	1,6034
	97	20,2434		5,32	6	371			45	8
3	54,54	-	0	636.51	6,8768	0,0763	-104,691	0	0,3962	1,6110
	97	20,2038		6,68	4	862			54	2
3	54,64	-	0	641.83	7,3283	0,0841	-105,874	0	0,3957	1,6185
	97	20,1642		7,67	4	712			23	1
3	54,74	-	0	646.98	7,7610	0,0916	-107,007	0	0,3952	1,6257
	97	20,1246		5,39	7	416			65	6
3	54,84	-	0	651.89	8,1776	0,0988	-108,08	0	0,3948	1,6326
	97	20,0851		8,36	3	437			76	9
3	54,94	-	0	656.55	8,5800	0,1058	-109,09	0	0,3945	1,6392
	97	20,0457		6,30	6	13			5	8
3	55,04	-	0	660.93	8,9713	0,1125	-110,033	0	0,3942	1,6454
	97	20,0062		6,28	3	52			92	9
3	55,14	-	0	665.07	9,3519	0,1191	-110,918	0	0,3940	1,6513
	97	19,9668		2,25	4	02			86	6
3	55,24	-	0	668.97	9,7234	0,1254	-111,747	0	0,3939	1,6569
	97	19,9274		2,91	6	75			28	2
3	55,34	-19,888	0	672.66	10,086	0,1317	-112,529	0	0,3938	1,6622
	97			6,18		02			08	
3	55,44	-	0	676.15	10,441	0,1377	-113,264	0	0,3937	1,6672
	97	19,8486		3,27	2	82			27	1
3	55,54	-	0	679.45	10,789	0,1437	-113,957	0	0,3936	1,6719
	97	19,8092		4,22	6	28			78	6
3	55,64	-	0	682.58	11,131	0,1495	-114,613	0	0,3936	1,6764
	97	19,7699		6,56	7	53			58	9
3	55,74	-	0	685.55	11,468	0,1552	-115,231	0	0,3936	1,6807
	97	19,7305		3,96	5	55			65	9
3	55,86	-	0	688.92	11,865	0,1619	-115,932	0	0,3937	1,6857
	97	19,6833		6,35	6	61			02	
3	56,01	-	0	692.71	12,333	0,1698	-116,716	0	0,3937	1,6912
	37	19,6266		8,26	4	14			86	5
3	56,18	-	0	696.93	12,883	0,1789	-117,587	0	0,3939	1,6974



	65	19,5585		9,98	7	82			35	6
3	56,39	-	0	701.57	13,530	0,1896	-118,539	0	0,3941	1,7043
	38	19,4768		7,60	2	37			76	4
3	56,64	-	0	706.63	14,289	0,2019	-119,574	0	0,3945	1,7119
	27	19,3787		0,41	3	41			37	
3	56,94	-	0	712.22	15,178	0,2159	-120,721	0	0,3950	1,7204
	13	19,2608		0,54	6	85			35	3
3	57,29	-	0	718.88	16,214	0,2316	-122,102	0	0,3956	1,7309
	96	19,1192		2,17	3	1			28	4
3	57,72	-	0	726.81	17,419	0,2487	-123,728	0	0,3963	1,7435
	96	18,9489		7,33	9	65			34	3
3	58,24	-	0	735.82	18,822	0,2678	-125,395	0	0,3972	1,756
	55	18,7441		4,30	1	73			52	
3	58,86	-	0	745.60	20,453	0,2894	-126,915	0	0,3984	1,7662
	47	18,4978		3,73	5	32			9	5
3	59,60	-	0	755.84	22,357	0,3137	-128,208	0	0,4001	1,7734
	77	18,2011		0,25	2	76			46	4
3	60,49	-	0	766.18	24,579	0,3414	-129,17	0	0,4023	1,7764
	93	17,8434		3,58	6	15			18	4
3	61,56	-	0	776.17	27,262	0,3718	-129,663	0	0,4051	1,7737
	93	17,4114		5,77		78			69	4
3	62,85	-	0	785.24	30,579	0,4048	-129,487	0	0,4089	1,7632
	32	16,8888		3,18	6	38			68	6
3	64,39	-	0	792.76	34,674	0,4411	-128,445	0	0,4139	1,7432
	39	16,2549		8,44	2	25			09	6
3	66,24	-15,484	0	798.11	39,708	0,4820	-126,377	0	0,4200	1,7129
	27			2,71	4	11			45	1
3	68,46	-14,544	0	800.53	45,867	0,5292	-123,146	0	0,4272	1,6724
	13			6,56	4	33			86	2
3	71,12	-	0	799.23	53,372	0,5845	-118,648	0	0,4354	1,6229
	37	13,3954		9,73	7	48			82	9
3	74,31	-	0	793.28	62,476	0,6502	-112,851	0	0,4442	1,5671
	85	11,9898		5,13		25			92	2
3	78,15	-10,269	0	781.83	73,459	0,7291	-105,853	0	0,4532	1,5085
	22			1,04	1	75			4	2
3	82,75	-	0	763.59	86,599	0,8244	-97,6644	0	0,4622	1,4498
	27	8,16252		4,83	6	56			92	7
3	88,27	-	0	735.46	102,07	0,9407	-87,8473	0	0,4719	1,3912



	34	5,58302		4,94	9	11			11	6
3	94,89 81	- 2,42831	0	696.47 6,14	119,98 8	1,0965 4	-76,7258	0	0,4798 47	1,3371 6
3	99,93 37	9,62392 E-16	0	664.69 4,75	133,05 3	1,2278 7	-68,8651	0	0,4843 57	1,3054 3
3	99,93 37	9,62392 E-16	0	666.30 6,49	132,57 4	1,1760 2	-69,3278	0	0,5069 88	1,3074
3	102,8 48	1,46262	0	646.11 7,44	139,83 4	1,2895 6	-64,7198	0	0,4981 02	1,2908 8
3	112,3 87	6,18163	0	581.62 4,82	162,55 5	1,6212 4	-51,2081	0	0,4942 79	1,2498 4
3	123,8 35	12,1272	0	496.30 5,78	186,12 3	1,9445 6	-35,3011	0	0,5494 28	1,2130 7
3	137,5 72	20,3078	0	380.65 7,77	205,78	2,5268	-16,1047	0	0,6490 22	1,1810 7
3	149,3 24	28,7935	0	239.86 0,64	208,76 3	3,6810 9	2,37904	0	0,8243 46	1,1658 8
3	149,3 24	28,7935	0	239.86 0,64	208,76 3	3,6811	2,37904	0	0,8243 43	1,1658 8
3	154,0 56	32,9264	0	183.67 4,60	209,86 1	4,3827 5	8,44231	0	0,9208 35	1,1647
3	173,8 38	53,8536	0	102.42 0,17	212,19	6,2965 6	15,4658	0	1,1497 7	1,1684 6
3	197,5 75	82,224	0	83.172, 35	213,56 9	7,1144 2	17,1212	0	1,2378 7	1,1688 7
3	226,0 61	118,828	0	68.263, 39	215,30 6	7,9700 4	18,3267	0	1,3251 5	1,1695 2
3	260,2 43	165,508	0	57.292, 55	217,46 9	8,7883 1	19,2033	0	1,4048 5	1,1700 1
3	301,2 61	224,985	0	47.647, 75	220,16 3	9,7443 4	20,9765	0	1,4941 4	1,1670 4
3	350,4 84	300,965	0	39.165, 51	223,52 8	10,843 1	22,3416	0	1,5919 1	1,1653 1
3	409,5 51	398,219	0	31.845, 03	227,73 8	12,105 5	23,2931	0	1,6994 9	1,1647 7
3	480,4 31	522,936	0	25.554, 35	233,01 2	13,560 4	23,9365	0	1,8178 5	1,1650 1
3	565,4	683,17	0	20.253, 239,63	15,238	24,3575	0	1,9479	1,1657	



	87			43		6			8	4
3	574,601	700,985	0	19.821,41	240,357	15,4147	24,3892	0	1,96128	1,16582
3	667,554	889,379	0	15.920,06	247,942	17,1726	24,6223	0	2,09078	1,1667
3	790,035	1155,17	0	12.373,48	258,39	19,3958	24,7801	0	2,2469	1,16776
3	937,013	1498,1	0	9.461,00	271,527	21,9417	24,8729	0	2,41681	1,16877
3	1108,53	1928,24	0	7.367,26	287,575	24,7636	24,926	0	2,59582	1,16966
4	86,4186	-24,7647	0	1,00	0,00177245	0,925914	24,6396	0	0,519559	1,17396
4	86,5186	-24,7207	0	507.603,96	2,39004	0,00969357	-85,2505	0	0,430382	1,53165
4	86,6186	-24,6777	0	524.387,56	3,38189	0,0181896	-88,0527	0	0,430576	1,54321
4	86,7186	-24,6346	0	528.232,16	4,15307	0,0267873	-88,5695	0	0,430886	1,54485
4	86,8186	-24,5915	0	529.435,25	4,8127	0,0353778	-88,6951	0	0,431193	1,54506
4	86,9186	-24,5484	0	529.674,44	5,40499	0,0439017	-88,6928	0	0,431526	1,54486
4	87,0186	-24,5052	0	530.051,87	5,94497	0,0523192	-88,7822	0	0,431758	1,54536
4	87,1186	-24,462	0	532.213,19	6,4475	0,0603131	-89,3492	0	0,431644	1,54865
4	87,2186	-24,4189	0	535.576,88	6,92075	0,0678735	-90,2211	0	0,431355	1,55372
4	87,3186	-24,3758	0	539.538,94	7,37046	0,0750536	-91,2337	0	0,431016	1,55964
4	87,4186	-24,3327	0	543.768,95	7,80109	0,0818936	-92,3007	0	0,430683	1,56591
4	87,5186	-24,2896	0	548.067,07	8,21571	0,0884382	-93,3724	0	0,430379	1,57226
4	87,6186	-24,2466	0	552.316,62	8,61627	0,0947319	-94,4214	0	0,430111	1,57851



4	87,71 86	- 24,2036	0	556.46 1,72	9,0041	0,1008 11	-95,4359	0	0,4298 77	1,5846 2
4	87,81 86	- 24,1606	0	560.48 1,34	9,3809 8	0,1066 94	-96,412	0	0,4296 77	1,5905 3
4	87,91 86	- 24,1177	0	564.35 6,32	9,7485	0,1123 95	-97,3462	0	0,4295 09	1,5962 4
4	88,01 86	- 24,0747	0	568.07 9,81	10,107 8	0,1179 28	-98,238	0	0,4293 73	1,6017 4
4	88,11 86	- 24,0318	0	571.65 4,78	10,459 6	0,1233 12	-99,0893	0	0,4292 63	1,6070 2
4	88,21 86	- 23,9889	0	575.09 1,22	10,804	0,1285 67	-99,9033	0	0,4291 78	1,6121 1
4	88,31 86	- 23,9459	0	578.38 4,11	11,142 3	0,1336 93	-100,679	0	0,4291 15	1,617 15
4	88,41 86	-23,903	0	581.54 9,58	11,474 4	0,1387 12	-101,422	0	0,4290 7	1,6217 2
4	88,53 86	- 23,8515	0	585.17 3,71	11,866 4	0,1445 85	-102,269	0	0,4290 43	1,6271 3
4	88,68 26	- 23,7898	0	589.30 4,05	12,327 2	0,1514 55	-103,229	0	0,4290 38	1,6333 3
4	88,85 54	- 23,7156	0	593.95 9,86	12,868 5	0,1594 52	-104,305	0	0,4290 7	1,6403 4
4	89,06 27	- 23,6266	0	599.15 3,81	13,503 3	0,1687 27	-105,499	0	0,4291 55	1,6482 2
4	89,31 16	- 23,5198	0	604.87 0,55	14,247 5	0,1794 32	-106,805	0	0,4293 16	1,6569 5
4	89,61 02	- 23,3916	0	611.07 4,19	15,118 4	0,1917 39	-108,215	0	0,4295 8	1,6665 1
4	89,96 85	- 23,2376	0	617.69 9,80	16,137 7	0,2058 14	-109,713	0	0,4299 78	1,6768 5
4	90,39 85	- 23,0526	0	624.78 1,31	17,331	0,2217 65	-111,312	0	0,4305 24	1,6881
4	90,91 44	- 22,8303	0	633.19 8,49	18,725 7	0,2391 9	-113,186	0	0,4311 02	1,7015 1
4	91,53 36	- 22,5632	0	643.23 5,20	20,352 6	0,2582 1	-115,195	0	0,4317 41	1,7154 4
4	92,27 66	- 22,2421	0	654.60 6,33	22,249 1	0,2792 06	-117,148	0	0,4325 66	1,7280 1



4	93,16 82	- 21,8559	0	666.88 8,66	24,458 4	0,3026 73	-118,884	0	0,4336 97	1,7376 5
4	94,23 82	- 21,3911	0	679.53 3,47	27,037 9	0,3292 39	-120,225	0	0,4352 39	1,7425 6
4	95,52 21	-20,831	0	691.96 9,18	30,131 2	0,3588 57	-120,995	0	0,4372 94	1,741
4	97,06 28	- 20,1551	0	703.38 1,70	33,988 9	0,3910 13	-120,911	0	0,4401 1	1,7302 3
4	98,91 16	-19,338	0	712.72 6,77	38,736 2	0,4277 14	-119,65	0	0,4438 9	1,7075 9
4	101,1 3	- 18,3481	0	719.15 8,61	44,543 9	0,4709 11	-117,079	0	0,4485 13	1,6731 6
4	103,7 93	- 17,1469	0	721.84 2,64	51,658 1	0,5223 65	-113,135	0	0,4538 2	1,6284 5
4	106,9 87	- 15,6876	0	719.90 0,73	60,340 3	0,5844 58	-107,833	0	0,4595 89	1,5762 6
4	110,8 21	- 13,9139	0	712.46 5,54	70,883 5	0,6600 11	-101,268	0	0,4655 77	1,5201 5
4	115,4 22	- 11,7577	0	698.69 2,08	83,602 6	0,7527 29	-93,5706	0	0,4715 59	1,4635 6
4	120,9 42	- 9,13779	0	677.71 7,79	98,805 9	0,8679 1	-84,8626	0	0,4773 82	1,4091 8
4	127,5 67	- 5,95609	0	648.60 9,49	116,76 9	1,0135 3	-75,2196	0	0,4829 67	1,3587 6
4	135,5 17	- 2,09486	0	610.20 4,49	137,69 3	1,2025 9	-64,6279	0	0,4882 86	1,3131 2
4	139,7 96	7,9127E -13	0	588.43 6,91	148,60 5	1,3127 9	-59,2701	0	0,4907 05	1,2932 9
4	139,7 96	7,9127E -13	0	590.15 0,12	148,08 1	1,2667 4	-59,7176	0	0,5095 88	1,2949 7
4	145,0 56	2,64751	0	561.58 7,29	161,04 8	1,4506 8	-53,1563	0	0,4994 63	1,2731 3
4	156,5 04	8,40642	0	497.25 9,78	187,59 9	1,7723 3	-39,7329	0	0,5204 56	1,2358 1
4	170,2 41	16,0392	0	409.44 1,19	213,83 2	2,1807 9	-23,5885	0	0,5932 13	1,2018 2
4	186,7 25	26,7913	0	291.21 5,74	233,20 8	2,9766 9	-5,14946	0	0,7217 8	1,1755 1



4	192,2 15	30,9228	0	242.61 6,44	234,14 2	3,4289	1,1005	0	0,7902 68	1,1704 4
4	192,2 15	30,9228	0	242.61 6,44	234,14 2	3,4291 7	1,1005	0	0,7902 05	1,1704 4
4	206,5 07	43,9168	0	129.38 3,82	236,50 8	5,11	12,9303	0	1,0138 6	1,1679 7
4	230,2 44	70,1757	0	88.800, 44	238,13 4	6,4078 7	16,4058	0	1,163	1,1694 1
4	258,7 3	104,739	0	70.288, 74	239,78 9	7,3330 2	17,9623	0	1,2610 3	1,1699 5
4	292,9 12	149,268	0	58.132, 81	241,86 8	8,1434 6	18,9798	0	1,3425 8	1,1702 2
4	333,9 3	206,213	0	47.642, 92	244,46 6	9,0829 7	20,6334	0	1,4332 9	1,1678 6
4	383,1 53	279,232	0	38.660, 05	247,71 9	10,171 2	22,1812	0	1,5326	1,1656 3
4	442,2 2	373,032	0	31.039, 88	251,80 3	11,420 8	23,2304	0	1,6418	1,1648 6
4	513,1	493,715	0	24.652, 84	256,93 4	12,862 2	23,9209	0	1,7617 6	1,1650 2
4	598,1 56	649,251	0	19.297, 30	263,38 9	14,526 5	24,3609	0	1,8935 4	1,1657 3
4	606,9 56	665,972	0	18.947, 60	264,07 4	14,695 2	24,3924	0	1,9065 4	1,1658 1
4	700,2 23	849,994	0	15.063, 67	271,51 6	16,447 2	24,6324	0	2,0380 5	1,1667
4	822,7 04	1109,43	0	11.568, 77	281,75 7	18,658 4	24,791	0	2,1959 8	1,1677 6
4	969,6 82	1445,03	0	8.789,6 9	294,66 2	21,194 1	24,8815	0	2,3678 1	1,1687 8
4	1127, 43	1831,94	0	6.969,0 9	309,16 4	23,788 1	24,9293	0	2,5349 5	1,1696 1
5	120,7 55	- 27,1046	0	1,00	0,0017 7245	0,9259 14	24,6396	0	0,5195 59	1,1739 6
5	120,8 55	- 27,0595	0	463.66 4,69	2,5191 9	0,0090 7356	-79,2781	0	0,4438 14	1,5138 1
5	120,9	-	0	479.25	3,5655	0,0170	-81,9845	0	0,444	1,5247

	55	27,0151		9,58	9	807				2
5	121,0	-	0	482.87	4,3768	0,0251	-82,4873	0	0,4442	1,5262
	55	26,9707		2,35	2	97			32	9
5	121,1	-	0	484.04	5,0711	0,0333	-82,6176	0	0,4444	1,5265
	55	26,9262		1,16		004			6	3
5	121,2	-	0	484.30	5,6923	0,0413	-82,6247	0	0,4447	1,5264
	55	26,8818		8,67	8	605			17	
5	121,3	-	0	484.22	6,2580	0,0494	-82,5926	0	0,4449	1,5262
	55	26,8373		3,43	4	024			61	
5	121,4	-	0	484.92	6,7842	0,0572	-82,8026	0	0,4450	1,5274
	55	26,7928		4,71	1	312			37	2
5	121,5	-	0	487.15	7,2801	0,0646	-83,4301	0	0,4448	1,5309
	55	26,7483		0,77		224			87	9
5	121,6	-	0	490.24	7,7509	0,0716	-84,2837	0	0,4446	1,5358
	55	26,7038		1,42	7	298			4	4
5	121,7	-	0	493.79	8,2012	0,0782	-85,2504	0	0,4443	1,5413
	55	26,6594		8,88	7	958			67	5
5	121,8	-	0	497.58	8,6329	0,0846	-86,2668	0	0,4440	1,5471
	55	26,6149		5,49	7	822			93	8
5	121,9	-	0	501.45	9,0487	0,0908	-87,2945	0	0,4438	1,5531
	55	26,5705		7,75	2	197			37	
5	122,0	-	0	505.33	9,4508	0,0967	-88,3123	0	0,4436	1,5590
	55	26,5262		2,60	8	327			03	2
5	122,1	-	0	509.16	9,8410	0,1024	-89,3094	0	0,4433	1,5648
	55	26,4818		2,71	7	48			92	5
5	122,2	-	0	512.91	10,221	0,1079	-90,278	0	0,4432	1,5705
	55	26,4375		4,81	3	76			07	6
5	122,3	-	0	516.57	10,592	0,1133	-91,2146	0	0,4430	1,5761
	55	26,3932		1,00	7	34			45	2
5	122,4	-	0	520.11	10,956	0,1185	-92,1168	0	0,4429	1,5815
	55	26,3489		9,12		38			06	2
5	122,5	-	0	523.55	11,312	0,1235	-92,9843	0	0,4427	1,5867
	55	26,3046		4,38	3	95			89	4
5	122,6	-	0	526.87	11,661	0,1285	-93,8181	0	0,4426	1,5918
	55	26,2603		5,59	9	25			91	
5	122,7	-26,216	0	530.08	12,005	0,1333	-94,6183	0	0,4426	1,5966
	55			2,10	7	3			12	9
5	122,8	-	0	533.78	12,410	0,1389	-95,5369	0	0,4425	1,6023



	75	26,1629		3,36	8	54			39	5
5	123,0	-	0	538.01	12,887	0,1455	-96,5815	0	0,4424	1,6088
	19	26,0992		8,97	6	08			8	4
5	123,1	-	0	542.82	13,447	0,1531	-97,758	0	0,4424	1,6162
	92	26,0228		2,35	2	24			44	2
5	123,3	-25,931	0	548.21	14,103	0,1619	-99,0685	0	0,4424	1,6245
	99			1,48	1	4			46	4
5	123,6	-	0	554.18	14,871	0,1721	-100,511	0	0,4425	1,6338
	48	25,8209		7,23					02	2
5	123,9	-	0	560.73	15,768	0,1837	-102,078	0	0,4426	1,6440
	47	25,6888		1,32	1	74			31	6
5	124,3	-	0	567.80	16,814	0,1971	-103,76	0	0,4428	1,6552
	05	25,5301		2,85	4	48			55	3
5	124,7	-	0	575.33	18,034	0,2124	-105,539	0	0,4431	1,6672
	35	25,3396		1,82	3	02			99	8
5	125,2	-	0	583.40	19,457	0,2295	-107,441	0	0,4436	1,6804
	51	25,1108		7,38	3	95			66	4
5	125,8	-24,836	0	593.09	21,120	0,2480	-109,663	0	0,4441	1,6960
	7			1,60	2	96			34	5
5	126,6	-	0	604.69	23,059	0,2680	-111,992	0	0,4446	1,7117
	13	24,5058		1,11	1	42			48	4
5	127,5	-24,109	0	617.68	25,314	0,2900	-114,162	0	0,4453	1,7250
	05			4,65	7	25			76	1
5	128,5	-	0	631.48	27,934	0,3147	-116,002	0	0,4464	1,7342
	75	23,6319		6,87	4	54			17	7
5	129,8	-	0	645.50	31,000	0,3428	-117,336	0	0,4478	1,7377
	59	23,0578		8,23	6	28			44	8
5	131,3	-	0	658.98	34,759	0,3736	-117,9	0	0,4498	1,7329
	99	22,3663		3,13	9	78			22	5
5	133,2	-	0	670.85	39,417	0,4082	-117,332	0	0,4525	1,7164
	48	21,5321		7,19	7	98			86	8
5	135,4	-	0	680.08	45,147	0,4487	-115,389	0	0,4561	1,6870
	67	20,5241		2,97	2	66			65	6
5	138,1	-	0	685.67	52,170	0,4972	-111,959	0	0,4604	1,6455
	29	19,3039		2,00	1	63			41	9
5	141,3	-	0	686.67	60,753	0,5561	-107,051	0	0,4652	1,5948
	24	17,8251		3,10	1	48			22	6
5	145,1	-	0	682.16	71,204	0,6281	-100,761	0	0,4702	1,5386

	58	16,0316		0,48	3	73			89	7
5	149,7 58	- 13,8559	0	671.25 0,46	83,859 4	0,7168 14	-93,2513	0	0,4754 38	1,4809 9
5	155,2 79	- 11,2167	0	653.17 8,55	99,053 6	0,8269 88	-84,6902	0	0,4805 11	1,4250 5
5	161,9 04	- 8,01645	0	627.16 3,35	117,10 1	0,9660 07	-75,2073	0	0,4854 09	1,373
5	169,8 53	-4,1381	0	592.38 5,00	138,26 1	1,1451 5	-64,8694	0	0,4900 99	1,3259 9
5	178,2 61	1,03507 E-12	0	553.13 6,84	159,84	1,3538 7	-54,8943	0	0,4941 1	1,2885 2
5	178,2 61	1,03507 E-12	0	554.83 6,72	159,29 3	1,3113 2	-55,3229	0	0,5110 77	1,2900 5
5	179,3 93	0,57653 4	0	549.05 1,12	162,10 2	1,3524 6	-53,9551	0	0,5078 84	1,2854 2
5	190,8 4	6,33298	0	492.12 3,20	189,62 7	1,6979 1	-41,3975	0	0,5084 44	1,2477 3
5	204,5 78	13,7449	0	413.40 1,97	218,27 7	2,0563 7	-26,2101	0	0,5730 59	1,2126 4
5	221,0 62	23,9981	0	314.26 6,45	243,70 1	2,6769 7	-9,70427	0	0,6759 55	1,1851 3
5	232,9 21	32,6237	0	236.41 2,10	252,91 7	3,3584 2	1,1317	0	0,7809	1,1733 3
5	232,9 21	32,6237	0	236.41 2,10	252,91 7	3,3584 2	1,1317	0	0,7809	1,1733 3
5	240,8 43	39,2535	0	169.30 1,03	254,15 3	4,1795 5	9,08252	0	0,8971 16	1,1683 1
5	264,5 81	63,6751	0	94.676, 87	256,33 6	5,9866 9	15,8348	0	1,1166 1	1,1699 8
5	293,0 66	96,9333	0	74.166, 72	257,93 1	6,9165 2	17,6489	0	1,2178 7	1,1702 1
5	327,2 48	140,072	0	60.803, 52	259,95 6	7,7438	18,8018	0	1,303	1,1703 7
5	368,2 67	195,404	0	49.708, 50	262,49	8,6720 5	20,3558	0	1,3943 1	1,1685
5	417,4 89	266,54	0	40.266, 94	265,67 2	9,7529 3	22,0525	0	1,4945 2	1,1658 5
5	476,5	358,132	0	32.299, 269,67	10,990	23,1783	0	1,6051	1,1649	

	56			10	4	1			4	
5	547,4 36	476,242	0	25.647, 71	274,71 1	12,423 1	23,9052	0	1,7258 3	1,165
5	632,4 93	628,765	0	20.111, 31	281,06	14,077 1	24,3599	0	1,8586 1	1,1656 9
5	642,6 83	647,782	0	19.716, 11	281,84 1	14,271 3	24,3971	0	1,8737 5	1,1657 9
5	734,5 6	826,11	0	15.699, 45	289,07 1	15,989 1	24,6362	0	2,0042 5	1,1666 8
5	857,0 41	1081,47	0	12.086, 00	299,17 7	18,191 3	24,7966	0	2,1633	1,1677 4
5	1004, 02	1412,36	0	9.205,9 9	311,93 2	20,719 3	24,8863	0	2,3363 2	1,1687 7
5	1156, 77	1781,9	0	7.346,3 5	325,82	23,227 9	24,9318	0	2,4995 2	1,1695 8
6	154,5 87	- 29,0762	0	1,00	0,0017 7245	0,9259 14	24,6396	0	0,5195 59	1,1739 6
6	154,6 87	- 29,0304	0	434.94 9,95	2,5944	0,0087 3636	-75,3921	0	0,4516 36	1,5029 5
6	154,7 87	- 28,9852	0	449.87 2,30	3,6718 2	0,0164 772	-78,061	0	0,4517 64	1,5136 1
6	154,8 87	-28,94	0	453.26 7,55	4,5112 3	0,0242 931	-78,5504	0	0,4519 9	1,5151 5
6	154,9 87	- 28,8948	0	454.31 2,38	5,2265 9	0,0321 142	-78,6706	0	0,4522 16	1,5153 9
6	155,0 87	- 28,8496	0	454.56 8,89	5,8630 9	0,0399 175	-78,6814	0	0,4524 27	1,5153
6	155,1 87	- 28,8043	0	454.46 8,39	6,4454 8	0,0476 859	-78,6468	0	0,4526 37	1,5150 9
6	155,2 87	-28,759	0	454.51 6,45	6,9863 2	0,0553 688	-78,6833	0	0,4527 95	1,5153 5
6	155,3 87	- 28,7138	0	455.81 9,74	7,4946 7	0,0627 263	-79,0869	0	0,4527 5	1,5176 5
6	155,4 87	- 28,6685	0	458.23 0,42	7,9772 6	0,0696 894	-79,8004	0	0,4525 62	1,5216 7
6	155,5 87	- 28,6233	0	461.29 9,20	8,4385 1	0,0762 947	-80,6872	0	0,4523 22	1,5266 5

6	155,6 87	-28,578	0	464.71 4,44	8,8815 1	0,0825 933	-81,6574	0	0,4520 75	1,5321 3
6	155,7 87	- 28,5328	0	468.29 3,35	9,3088 5	0,0886 251	-82,66	0	0,4518 38	1,5378 1
6	155,8 87	- 28,4877	0	471.93 0,00	9,7228 1	0,0944 182	-83,6664	0	0,4516 22	1,5435 4
6	155,9 87	- 28,4425	0	475.56 0,59	10,125 2	0,0999 972	-84,6607	0	0,4514 28	1,5492 5
6	156,0 87	- 28,3974	0	479.14 5,75	10,517 1	0,1053 86	-85,6337	0	0,4512 56	1,5548 7
6	156,1 87	- 28,3523	0	482.66 0,76	10,899 5	0,1106 06	-86,58	0	0,4511 03	1,5603 8
6	156,2 87	- 28,3072	0	486.08 9,10	11,273	0,1156 75	-87,4962	0	0,4509 7	1,5657 5
6	156,3 87	- 28,2621	0	489.42 4,80	11,638 6	0,1206 04	-88,3816	0	0,4508 54	1,5709 7
6	156,4 87	-28,217	0	492.66 5,20	11,997 1	0,1254 06	-89,2362	0	0,4507 55	1,5760 5
6	156,5 87	- 28,1719	0	495.80 4,49	12,349 3	0,1300 85	-90,0592	0	0,4506 72	1,5809 8
6	156,7 07	- 28,1178	0	499.43 7,92	12,764 7	0,1355 49	-91,0059	0	0,4505 91	1,5866 9
6	156,8 51	-28,053	0	503.61 6,50	13,253	0,1419 15	-92,0876	0	0,4505 2	1,5932 7
6	157,0 23	- 27,9751	0	508.38 6,12	13,825 4	0,1493 12	-93,3135	0	0,4504 63	1,6008 1
6	157,2 31	- 27,8817	0	513.76 9,27	14,495 6	0,1578 68	-94,6864	0	0,4504 34	1,6093 5
6	157,4 8	- 27,7696	0	519.77 9,90	15,278 9	0,1677 28	-96,2068	0	0,4504 46	1,6189 4
6	157,7 78	- 27,6351	0	526.41 8,96	16,192 6	0,1790 53	-97,8719	0	0,4505 14	1,6296
6	158,1 37	- 27,4737	0	533.65 5,46	17,257 7	0,1920 02	-99,6709	0	0,4506 59	1,6413 2
6	158,5 67	- 27,2798	0	541.41 6,72	18,500 2	0,2067 27	-101,584	0	0,4509 05	1,6540 2
6	159,0 83	- 27,0471	0	549.67 0,82	19,950 2	0,2233 42	-103,604	0	0,4512 74	1,6677 2



6	159,7 02	- 26,7675	0	558.94 5,55	21,640 5	0,2416	-105,85	0	0,4517 13	1,6832 9
6	160,4 45	- 26,4317	0	570.23 3,34	23,611 3	0,2609 84	-108,374	0	0,4521 39	1,7006 5
6	161,3 36	- 26,0284	0	583.39 9,55	25,902 1	0,2819 8	-110,845	0	0,4526 82	1,7165 2
6	162,4 06	- 25,5436	0	597.56 6,97	28,563 3	0,3054 53	-112,984	0	0,4535 12	1,7284 3
6	163,6 9	- 24,9607	0	612.21 1,75	31,656 5	0,3321 23	-114,651	0	0,4546 58	1,7349 9
6	165,2 31	- 24,2589	0	626.56 9,21	35,384 1	0,3618 79	-115,582	0	0,4562 5	1,7336
6	167,0 8	- 23,4133	0	639.66 7,69	39,986 5	0,3951 78	-115,443	0	0,4584 86	1,7211 7
6	169,2 98	- 22,3929	0	650.47 8,16	45,656 9	0,4338 01	-113,956	0	0,4614 49	1,6957 7
6	171,9 61	- 21,1595	0	657.93 2,10	52,618 6	0,4799 95	-110,946	0	0,4650 91	1,6574 2
6	175,1 55	- 19,6669	0	660.85 7,43	61,131 3	0,5364 47	-106,342	0	0,4692 55	1,6082
6	178,9 89	-17,859	0	658.31 6,81	71,511	0,6057 53	-100,286	0	0,4737 14	1,5524 7
6	183,5 9	- 15,6688	0	649.50 2,39	84,113	0,6910 82	-92,9716	0	0,4782 94	1,4945 3
6	189,1 1	- 13,0153	0	633.59 4,12	99,291 1	0,7972 92	-84,5513	0	0,4828 45	1,4376 8
6	195,7 35	- 9,80142	0	609.91 1,93	117,38 5	0,9310 82	-75,2143	0	0,4872 66	1,3845 7
6	203,6 85	- 5,91022	0	577.85 2,37	138,70 5	1,1025 8	-65,0744	0	0,4915 18	1,3365 7
6	213,2 24	-1,201	0	536.61 2,93	163,46 2	1,3287 3	-54,1208	0	0,4956 04	1,2939 4
6	215,6 45	5,40418 E-15	0	525.81 3,63	169,57 2	1,3906 2	-51,5007	0	0,4965 14	1,2849 6
6	215,6 45	5,40418 E-15	0	527.48 6,87	169,00 5	1,3506 7	-51,9123	0	0,5120 52	1,2863 7
6	224,6 72	4,56038	0	485.83 9,19	191,05 2	1,6406 9	-42,4384	0	0,5021 77	1,2570 4



6	238,409	11,8195	0	414.681,60	221,358	1,96813	-28,1122	0	0,558807	1,22148
6	254,893	21,7446	0	326.295,37	250,213	2,50045	-12,729	0	0,648461	1,19323
6	271,611	33,5915	0	225.624,11	268,312	3,3232	1,87266	0	0,778059	1,17515
6	271,611	33,5915	0	225.624,11	268,312	3,32336	1,87266	0	0,778022	1,17515
6	274,675	36,0206	0	205.965,13	269,082	3,53125	4,62495	0	0,809166	1,17196
6	298,412	58,6666	0	100.443,84	271,639	5,53683	15,1993	0	1,06579	1,17033
6	326,898	90,736	0	75.429,70	273,211	6,53169	17,3956	0	1,17713	1,17045
6	361,08	132,617	0	60.154,13	275,184	7,38916	18,6872	0	1,26722	1,17057
6	402,098	186,496	0	48.313,27	277,661	8,3073	20,1947	0	1,35897	1,16897
6	451,321	255,918	0	38.458,29	280,777	9,37635	21,9992	0	1,46031	1,16601
6	510,388	345,5	0	30.322,27	284,702	10,6067	23,1732	0	1,57117	1,16495
6	581,268	461,25	0	23.625,06	289,653	12,0282	23,9175	0	1,69277	1,16502
6	666,324	611,017	0	18.315,88	295,904	13,6707	24,3759	0	1,82652	1,16572
6	672,531	622,384	0	18.066,62	296,373	13,7879	24,3989	0	1,83589	1,16578
6	768,391	805,15	0	14.026,57	303,805	15,572	24,6498	0	1,97313	1,16672
6	890,872	1056,76	0	10.639,07	313,785	17,7648	24,8073	0	2,13315	1,16779
6	1037,85	1383,29	0	7.948,01	326,399	20,2847	24,8937	0	2,30722	1,16882
6	1175,82	1712,04	0	6.467,20	338,794	22,5501	24,9339	0	2,45618	1,16956
7	187,8	-	0	1,00	0,0017	0,9259	24,6396	0	0,5195	1,1739



	3	30,7231			7245	14			59	6
7	187,9	-	0	412.75	2,6618	0,0084	-72,4142	0	0,4572	1,4950
	3	30,6768		1,79	2	8632			38	9
7	188,0	-	0	426.92	3,7670	0,0160	-75,0237	0	0,4573	1,5054
	3	30,6311		9,73	8	303			83	9
7	188,1	-	0	430.21	4,6254	0,0236	-75,5101	0	0,4575	1,5070
	3	30,5853		9,12	4	604			62	3
7	188,2	-	0	431.27	5,3572	0,0312	-75,6381	0	0,4577	1,5073
	3	30,5396		9,71	3	918			42	1
7	188,3	-	0	431.56	6,0091	0,0389	-75,6555	0	0,4579	1,5072
	3	30,4938		3,61	7	05			23	5
7	188,4	-30,448	0	431.50	6,6040	0,0465	-75,6278	0	0,4581	1,5070
	3			1,08	1	006			05	8
7	188,5	-	0	431.42	7,1568	0,0540	-75,6279	0	0,4582	1,5071
	3	30,4022		9,90	2	35			6	3
7	188,6	-	0	432.04	7,6772	0,0613	-75,8441	0	0,4583	1,5083
	3	30,3563		2,97	5	55			04	8
7	188,7	-	0	433.79	8,1712	0,0683	-76,3971	0	0,4581	1,5114
	3	30,3105		2,04	2	038			9	9
7	188,8	-	0	436.33	8,6427	0,0748	-77,1754	0	0,4579	1,5158
	3	30,2647		7,88	2	934			94	4
7	188,9	-	0	439.40	9,0951	0,0811	-78,0915	0	0,4577	1,5209
	3	30,2189		6,25	8	498			7	6
7	189,0	-	0	442.73	9,5315	0,0871	-79,0687	0	0,4575	1,5264
	3	30,1731		3,81	6	228			48	3
7	189,1	-	0	446.17	9,9539	0,0928	-80,065	0	0,4573	1,5320
	3	30,1274		3,47	8	514			41	4
7	189,2	-	0	449.64	10,364	0,0983	-81,0581	0	0,4571	1,5376
	3	30,0817		2,39	1	656			52	7
7	189,3	-30,036	0	453.08	10,763	0,1036	-82,0342	0	0,4569	1,5432
	3			7,45	5	85			83	3
7	189,4	-	0	456.47	11,153	0,1088	-82,9841	0	0,4568	1,5486
	3	29,9903		1,04	8	2			36	8
7	189,5	-	0	459.79	11,535	0,1138	-83,909	0	0,4567	1,5540
	3	29,9446		1,01	2	02			06	3
7	189,6	-	0	463.02	11,908	0,1186	-84,8045	0	0,4565	1,5592
	3	29,8989		9,17	8	37			93	4
7	189,7	-	0	466.19	12,274	0,1233	-85,675	0	0,4564	1,5643

	3	29,8533		5,67	3	55			93	4
7	189,8	-	0	469.26	12,633	0,1279	-86,5138	0	0,4564	1,5692
	3	29,8076		7,13	6	44			09	9
7	189,9	-	0	472.84	13,055	0,1333	-87,4862	0	0,4563	1,5750
	5	29,7529		8,97	9	17			23	8
7	190,0	-	0	476.97	13,552	0,1395	-88,5991	0	0,4562	1,5817
	94	29,6871		7,64	6	65			42	6
7	190,2	-	0	481.71	14,134	0,1468	-89,8663	0	0,4561	1,5894
	67	29,6083		4,22	1	25			71	4
7	190,4	-	0	487.08	14,814	0,1552	-91,2924	0	0,4561	1,5981
	74	29,5137		9,65	7	15			21	9
7	190,7	-	0	493.12	15,609	0,1648	-92,8793	0	0,4561	1,6080
	23	29,4002		5,31	6	72			03	6
7	191,0	-29,264	0	499.81	16,537	0,1759	-94,6197	0	0,4561	1,6190
	21			0,20	7	3			34	4
7	191,3	-	0	507.11	17,621	0,1885	-96,5016	0	0,4562	1,6311
	8	29,1006		1,77	3	24			35	3
7	191,8	-	0	514.96	18,887	0,2027	-98,5056	0	0,4564	1,6442
	1	28,9044		2,77	1	94			32	5
7	192,3	-	0	523.28	20,359	0,2189	-100,613	0	0,4567	1,6583
	26	28,6688		3,15	6	73			46	5
7	192,9	-	0	532.42	22,071	0,2369	-102,912	0	0,4571	1,6741
	45	28,3859		4,26	3	11			4	2
7	193,6	-	0	543.47	24,064	0,2559	-105,516	0	0,4575	1,6919
	88	28,0461		9,48	3	74			22	9
7	194,5	-	0	556.41	26,381	0,2764	-108,139	0	0,4579	1,7091
	8	27,6379		0,06	5	97			84	7
7	195,6	-	0	570.73	29,072	0,2990	-110,553	0	0,4586	1,7235
	49	27,1476		9,16	3	65			43	6
7	196,9	-	0	585.79	32,197	0,3245	-112,511	0	0,4595	1,7328
	33	26,5581		1,75	2	37			96	1
7	198,4	-25,849	0	600.87	35,889	0,3533	-113,799	0	0,4609	1,7347
	74			9,07	3	98			12	7
7	200,3	-	0	615.02	40,452	0,3853	-114,074	0	0,4627	1,7262
	23	24,9952		4,33	8	83			68	2
7	202,5	-	0	626.99	46,080	0,4224	-112,957	0	0,4653	1,7040
	42	23,9656		2,35	1	6			18	9
7	205,2	-	0	635.65	52,986	0,4669	-110,249	0	0,4685	1,6680



	04	22,7225		2,20	6	73			2	7
7	208,3 99	- 21,2197	0	640.01 7,71	61,445 4	0,5212 65	-105,933	0	0,4722 32	1,6205 2
7	212,2 32	- 19,4014	0	639.17 8,96	71,783 4	0,5879 59	-100,098	0	0,4762 81	1,5652 7
7	216,8 33	- 17,2004	0	632.06 6,92	84,353 1	0,6705 11	-92,9026	0	0,4804 79	1,5066 9
7	222,3 54	- 14,5359	0	617.83 5,90	99,517 8	0,7734 66	-84,5653	0	0,4846 7	1,4488 1
7	228,9 78	-11,311	0	595.91 5,08	117,65 1	0,9029 85	-75,3105	0	0,4887 6	1,3946 1
7	236,9 28	- 7,40925	0	565.83 6,57	139,08 9	1,0686 2	-65,2741	0	0,4926 95	1,3455 3
7	246,4 68	- 2,69022	0	527.04 8,78	164,09 9	1,2855 4	-54,5092	0	0,4964 77	1,3020 8
7	251,8 76	1,43861 E-12	0	504.31 6,51	177,84 2	1,4194 6	-48,8813	0	0,4983 16	1,2825 4
7	251,8 76	1,43861 E-12	0	505.96 3,89	177,25 8	1,3814 8	-49,279	0	0,5128 05	1,2838 7
7	257,9 15	3,0662	0	479.24 6,52	192,13 4	1,5741 9	-43,0842	0	0,5046 52	1,2644 2
7	271,6 52	10,2396	0	400.24 0,44	222,92 3	1,8997 4	-26,687	0	0,5518 09	1,2221 5
7	288,1 37	20,0775	0	291.17 0,79	250,36 5	2,4414 8	-8,36414	0	0,6463 29	1,1905 5
7	307,0 54	33,5915	0	183.57 0,83	271,04 9	3,3616 9	5,7233	0	0,7878 24	1,1775
7	307,0 54	33,5915	0	183.57 0,83	271,04 9	3,3616 8	5,7233	0	0,7878 26	1,1775
7	307,9 18	34,2762	0	179.32 6,38	271,69 1	3,4110 6	6,31707	0	0,7950 86	1,1767 8
7	331,6 56	55,4908	0	99.713, 43	276,01 5	4,8710 5	14,8812	0	0,9880 06	1,1719
7	360,1 41	85,4472	0	71.538, 66	277,51 5	5,8538 7	17,3897	0	1,1029 6	1,1714 9
7	394,3 23	124,913	0	54.730, 45	279,38 1	6,7204 7	18,802	0	1,1977 8	1,1714 5
7	435,3	175,951	0	42.695, 281,73	7,6114	20,5249	0	1,2897	1,1690	



	42			65	7	5			2	4
7	484,5 64	241,986	0	33.023, 13	284,71 4	8,6467 8	22,2944	0	1,3915	1,1661 5
7	543,6 31	327,522	0	25.313, 18	288,47 8	9,8422 2	23,4071	0	1,5029 9	1,1652 2
7	614,5 11	438,458	0	19.199, 93	293,24 4	11,228 6	24,0861	0	1,6254 2	1,1654 2
7	667,8 49	527,461	0	15.913, 86	296,99 2	12,244 5	24,3713	0	1,7111 1	1,1658 9
7	699,5 67	582,565	0	14.487, 66	299,28 4	12,839 5	24,489	0	1,7599 4	1,1662 1
7	801,6 35	769,838	0	10.813, 92	306,93 9	14,707 9	24,722	0	1,9075 2	1,1672 3
7	924,1 16	1013,51	0	8.001,2 3	316,64 5	16,870 5	24,8522	0	2,0689 4	1,1682 8
7	1071, 09	1330,73	0	5.854,9 4	328,94 8	19,363 3	24,9213	0	2,2446 8	1,1692 6
7	1123, 95	1450,95	0	5.382,5 4	333,53	20,234 3	24,9356	0	2,3038 3	1,1695 5
8	194,2 38	- 31,0148	0	1,00	0,0017 7245	0,9259 14	24,6396	0	0,5195 59	1,1739 6
8	194,3 38	- 30,9684	0	409.08 1,49	2,6760 4	0,0084 4646	-71,9252	0	0,4581 39	1,4938 4
8	194,4 38	- 30,9226	0	423.11 1,94	3,7876 1	0,0159 586	-74,5191	0	0,4582 87	1,5041 7
8	194,5 38	- 30,8768	0	426.36 2,15	4,6508 9	0,0235 556	-75,0021	0	0,4584 63	1,5057 1
8	194,6 38	- 30,8309	0	427.40 9,07	5,3863 6	0,0311 575	-75,1291	0	0,4586 4	1,5059 8
8	194,7 38	- 30,7851	0	427.68 9,32	6,0419	0,0387 384	-75,1466	0	0,4588 18	1,5059 3
8	194,8 38	- 30,7392	0	427.62 5,57	6,6399 4	0,0463 023	-75,1192	0	0,4589 96	1,5057 6
8	194,9 38	- 30,6933	0	427.51 7,12	7,195	0,0538 206	-75,1086	0	0,4591 52	1,5057 5
8	195,0 38	- 30,6473	0	428.16 3,69	7,7168 5	0,0611 198	-75,3347	0	0,4591 89	1,5070 6



8	195,138	-30,6014	0	429.923,62	8,21228	0,068049	-75,8909	0	0,459075	1,51017
8	195,238	-30,5555	0	432.439,58	8,68575	0,0746217	-76,662	0	0,458885	1,51446
8	195,338	-30,5096	0	435.433,62	9,14052	0,08087	-77,5613	0	0,458668	1,51948
8	195,438	-30,4638	0	438.693,19	9,57915	0,0868343	-78,5247	0	0,458452	1,52487
8	195,538	-30,418	0	442.075,18	10,0034	0,0925586	-79,5118	0	0,458247	1,53042
8	195,638	-30,3721	0	445.492,81	10,4149	0,0980726	-80,4979	0	0,458058	1,53599
8	195,738	-30,3263	0	448.906,03	10,8154	0,103392	-81,4728	0	0,457888	1,54154
8	195,838	-30,2806	0	452.279,52	11,2062	0,108535	-82,4272	0	0,457737	1,54701
8	195,938	-30,2348	0	455.592,89	11,5882	0,11352	-83,3569	0	0,457604	1,55238
8	196,038	-30,189	0	458.833,67	11,9623	0,118359	-84,2593	0	0,457487	1,55762
8	196,138	-30,1433	0	461.994,65	12,3292	0,123066	-85,1335	0	0,457386	1,56273
8	196,238	-30,0976	0	465.071,79	12,6894	0,12765	-85,979	0	0,457298	1,56771
8	196,358	-30,0427	0	468.651,21	13,1137	0,133003	-86,9563	0	0,457211	1,57351
8	196,502	-29,9769	0	472.786,58	13,6119	0,139237	-88,0775	0	0,457127	1,58022
8	196,675	-29,8979	0	477.522,13	14,1959	0,146468	-89,3514	0	0,457054	1,58793
8	196,882	-29,8031	0	482.892,07	14,8792	0,154824	-90,7839	0	0,457002	1,596702
8	197,131	-29,6894	0	488.911,64	15,6782	0,164426	-92,3748	0	0,456985	1,60657
8	197,429	-29,5529	0	495.580,50	16,6106	0,175424	-94,1206	0	0,457015	1,61757
8	197,788	-29,3892	0	502.868,76	17,6977	0,187968	-96,0103	0	0,457114	1,62969



8	198,2 18	- 29,1926	0	510.71 8,86	18,963 9	0,2022 23	-98,0266	0	0,4573 02	1,6428 7
8	198,7 34	- 28,9566	0	519.04 2,41	20,438 6	0,2183 61	-100,146	0	0,4576 03	1,6570 2
8	199,3 53	- 28,6731	0	528.08 3,25	22,157	0,2363 03	-102,421	0	0,4580 01	1,6725 5
8	200,0 96	- 28,3327	0	538.93 3,77	24,157 6	0,2553 99	-105,017	0	0,4583 95	1,6904
8	200,9 87	- 27,9237	0	551.78 8,80	26,484	0,2757 92	-107,698	0	0,4588 37	1,7081 8
8	202,0 57	- 27,4325	0	566.13 9,23	29,183 3	0,2981 45	-110,166	0	0,4594 76	1,7230 8
8	203,3 41	- 26,8419	0	581.24 3,31	32,312 7	0,3234 04	-112,161	0	0,4604 18	1,7326 5
8	204,8 82	- 26,1316	0	596.38 7,27	36,004 9	0,3520 61	-113,485	0	0,4617 09	1,7349 5
8	206,7 31	- 25,2763	0	610.67 8,41	40,559 1	0,3838 61	-113,807	0	0,4635 22	1,7268 2
8	208,9 49	- 24,2452	0	622.92 9,51	46,181 6	0,4205 75	-112,764	0	0,4660 06	1,7052 9
8	211,6 12	- 23,0004	0	631.94 9,94	53,089 9	0,4646 08	-110,125	0	0,4691 44	1,6697 4
8	214,8 07	- 21,4958	0	636.65 6,48	61,550 7	0,5184 4	-105,855	0	0,4727 89	1,6223 9
8	218,6 4	- 19,6755	0	635.98 6,30	71,879	0,5848 85	-100,029	0	0,4767 62	1,5670 6
8	223,2 41	- 17,4724	0	629.02 5,67	84,435 8	0,6671 6	-92,844	0	0,4808 83	1,5084 1
8	228,7 61	- 14,8058	0	615.02 8,87	99,605 7	0,7695 95	-84,522	0	0,4850 1	1,4504 4
8	235,3 86	- 11,5789	0	593.34 3,80	117,74 3	0,8986 02	-75,2736	0	0,4890 32	1,3960 7
8	243,3 36	-7,6752	0	563.55 8,46	139,19 3	1,0633 9	-65,2643	0	0,4929 08	1,3469 2
8	252,8 75	- 2,95438	0	525.13 5,63	164,23 8	1,2786 5	-54,5364	0	0,4966 62	1,3034
8	258,8 1	7,83918 E-15	0	499.93 4,20	179,32 4	1,4240 2	-48,2932	0	0,4988 6	1,2817 5

8	258,8 1	7,83918 E-15	0	501.57 9,68	178,73 6	1,3864	-48,6892	0	0,5131 76	1,2830 6
8	264,3 23	2,80615	0	473.46 3,44	192,23 7	1,5571 6	-42,1971	0	0,5070 42	1,2628 5
8	278,0 6	10,0105	0	385.25 2,74	222,16 8	1,9042 9	-24,3725	0	0,5543 79	1,2186 6
8	294,5 45	19,8987	0	277.33 3,57	249,02 8	2,4535 2	-6,92774	0	0,6490 76	1,1907 8
8	313,7 32	33,5915	0	177.47 5,74	271,48 7	3,3211 6	6,02425	0	0,7825	1,1790 1
8	313,7 32	33,5915	0	177.47 5,74	271,48 7	3,3211 5	6,02425	0	0,7825 03	1,1790 1
8	314,3 26	34,0583	0	174.45 0,05	272,01 4	3,3543 8	6,43111	0	0,7874 09	1,1785
8	338,0 64	54,8524	0	98.703, 90	278,49 2	4,6366 1	14,6255	0	0,9593 22	1,1723 5
8	366,5 49	84,0015	0	67.438, 56	279,96 4	5,6015 3	17,2971	0	1,0744 3	1,1716 3
8	400,7 31	122,559	0	49.252, 49	281,78 2	6,4849 8	18,7975	0	1,1726 4	1,1715 8
8	441,7 5	172,566	0	37.176, 23	284,09 4	7,3631 1	20,5648	0	1,2647 1	1,1690 4
8	490,9 72	237,365	0	27.864, 14	287,01 9	8,3849 6	22,3558	0	1,3666 8	1,1661 1
8	550,0 39	321,428	0	20.742, 87	290,72 4	9,5679 6	23,4634	0	1,4782 4	1,1652 1
8	620,9 19	430,606	0	15.330, 67	295,42 1	10,942 7	24,1301	0	1,6006 9	1,1654 6
8	666,7 77	505,724	0	12.837, 59	298,59 4	11,810 1	24,3749	0	1,6748 3	1,1658 8
8	705,9 75	572,652	0	11.402, 51	301,38 4	12,541	24,5192	0	1,7355 6	1,1662 9
8	808,0 43	757,445	0	8.212,4 9	308,94 9	14,396 9	24,7416	0	1,8835 2	1,1673 2
8	930,5 24	998,211	0	5.951,2 2	318,55 4	16,548	24,8642	0	2,0454 3	1,1683 8
8	1077, 5	1312,02	0	4.286,6 3	330,74 2	19,030 2	24,9288	0	2,2217 6	1,1693 6



8	1112,81	1391,160	0	4.031,14	333,767	19,6113	24,938	0	2,26163	1,16955
9	194,239	-31,0148	0	1,00	0,00177245	0,925914	24,6396	0	0,519559	1,17396
9	194,339	-30,9684	0	408.227,06	2,67604	0,00844646	-71,9252	0	0,458139	1,49384
9	194,439	-30,9226	0	422.228,20	3,78761	0,0159586	-74,5191	0	0,458287	1,50417
9	194,539	-30,8768	0	425.471,62	4,65089	0,0235556	-75,0021	0	0,458463	1,50571
9	194,639	-30,8309	0	426.516,36	5,38636	0,0311575	-75,1291	0	0,45864	1,50598
9	194,739	-30,7851	0	426.796,03	6,0419	0,0387384	-75,1466	0	0,458818	1,50593
9	194,839	-30,7392	0	426.732,41	6,63994	0,0463023	-75,1192	0	0,458996	1,50576
9	194,939	-30,6933	0	426.624,18	7,195	0,0538206	-75,1086	0	0,459152	1,50575
9	195,039	-30,6473	0	427.269,40	7,71685	0,0611198	-75,3347	0	0,459189	1,50706
9	195,139	-30,6014	0	429.025,66	8,21228	0,068049	-75,8909	0	0,459075	1,51017
9	195,239	-30,5555	0	431.536,36	8,68575	0,0746217	-76,662	0	0,458885	1,51446
9	195,339	-30,5096	0	434.524,15	9,14052	0,08087	-77,5613	0	0,458668	1,51948
9	195,439	-30,4638	0	437.776,91	9,57915	0,0868343	-78,5247	0	0,458452	1,52487
9	195,539	-30,418	0	441.151,84	10,0034	0,0925586	-79,5118	0	0,458247	1,53042
9	195,639	-30,3721	0	444.562,33	10,4149	0,0980726	-80,4979	0	0,458058	1,53599
9	195,739	-30,3263	0	447.968,42	10,8154	0,103392	-81,4728	0	0,457888	1,54154
9	195,839	-30,2806	0	451.334,87	11,2062	0,108535	-82,4272	0	0,457737	1,54701
9	195,9	-	0	454.64	11,588	0,1135	-83,3569	0	0,4576	1,5523



	39	30,2348		1,31	2	2			04	8
9	196,0 39	-30,189	0	457.87 5,33	11,962 3	0,1183 59	-84,2593	0	0,4574 87	1,5576 2
9	196,1 39	- 30,1433	0	461.02 9,70	12,329 2	0,1230 66	-85,1335	0	0,4573 86	1,5627 3
9	196,2 39	- 30,0976	0	464.10 0,41	12,689 4	0,1276 5	-85,979	0	0,4572 98	1,5677 1
9	196,3 59	- 30,0427	0	467.67 2,36	13,113 7	0,1330 03	-86,9563	0	0,4572 11	1,5735 1
9	196,5 03	- 29,9769	0	471.79 9,10	13,611 9	0,1392 37	-88,0775	0	0,4571 27	1,5802 2
9	196,6 76	- 29,8979	0	476.52 4,75	14,195 9	0,1464 68	-89,3514	0	0,4570 54	1,5879 3
9	196,8 83	- 29,8031	0	481.88 3,47	14,879 2	0,1548 24	-90,7839	0	0,4570 02	1,5967
9	197,1 32	- 29,6894	0	487.89 0,47	15,678 2	0,1644 26	-92,3748	0	0,4569 85	1,6065 7
9	197,4 3	- 29,5529	0	494.54 5,41	16,610 6	0,1754 24	-94,1206	0	0,4570 15	1,6175 7
9	197,7 89	- 29,3892	0	501.81 8,45	17,697 7	0,1879 68	-96,0103	0	0,4571 14	1,6296 9
9	198,2 19	- 29,1926	0	509.65 2,15	18,963 9	0,2022 23	-98,0266	0	0,4573 02	1,6428 7
9	198,7 35	- 28,9566	0	517.95 8,31	20,438 6	0,2183 61	-100,146	0	0,4576 03	1,6570 2
9	199,3 54	- 28,6731	0	526.98 0,27	22,157	0,2363 03	-102,421	0	0,4580 01	1,6725 5
9	200,0 97	- 28,3327	0	537.80 8,12	24,157 6	0,2553 99	-105,017	0	0,4583 95	1,6904
9	200,9 88	- 27,9237	0	550.63 6,30	26,484	0,2757 92	-107,698	0	0,4588 37	1,7081 8
9	202,0 58	- 27,4325	0	564.95 6,76	29,183 3	0,2981 45	-110,166	0	0,4594 76	1,7230 8
9	203,3 42	- 26,8419	0	580.02 9,30	32,312 7	0,3234 04	-112,161	0	0,4604 18	1,7326 5
9	204,8 83	- 26,1316	0	595.14 1,63	36,004 9	0,3520 61	-113,485	0	0,4617 09	1,7349 5
9	206,7	-	0	609.40	40,559	0,3838	-113,807	0	0,4635	1,7268

	32	25,2763		2,91	1	61			22	2
9	208,95	-24,2452	0	621.628,43	46,1816	0,420575	-112,764	0	0,466006	1,70529
9	211,613	-23,0004	0	630.630,01	53,0899	0,464608	-110,125	0	0,469144	1,66974
9	214,808	-21,4958	0	635.326,73	61,5507	0,51844	-105,855	0	0,472789	1,62239
9	218,641	-19,6755	0	634.657,95	71,879	0,584885	-100,029	0	0,476762	1,56706
9	223,242	-17,4724	0	627.711,85	84,4358	0,66716	-92,844	0	0,480883	1,50841
9	228,762	-14,8058	0	613.744,28	99,6057	0,769595	-84,522	0	0,48501	1,45044
9	235,387	-11,5789	0	592.104,51	117,743	0,898602	-75,2736	0	0,489032	1,39607
9	243,337	-7,6752	0	562.381,38	139,193	1,06339	-65,2643	0	0,492908	1,34692
9	252,876	-2,95438	0	524.038,81	164,238	1,27865	-54,5364	0	0,496662	1,3034
9	258,811	7,83918E-15	0	498.890,01	179,324	1,42402	-48,2932	0	0,49886	1,28175
9	258,811	7,83918E-15	0	500.532,05	178,736	1,3864	-48,6892	0	0,513176	1,28306
9	264,324	2,80615	0	472.474,54	192,237	1,55716	-42,1971	0	0,507042	1,26285
9	278,061	10,0105	0	384.448,08	222,168	1,90429	-24,3725	0	0,554379	1,21866
9	294,546	19,8987	0	276.754,31	249,028	2,45352	-6,92774	0	0,649076	1,19078
9	313,733	33,5915	0	177.105,05	271,487	3,32116	6,02425	0	0,7825	1,17901
9	313,733	33,5915	0	177.105,05	271,487	3,32115	6,02425	0	0,782503	1,17901
9	314,327	34,0583	0	174.594,82	272,014	3,35438	6,43111	0	0,787409	1,1785
9	338,065	54,8524	0	99.917,89	278,492	4,63661	14,6255	0	0,959322	1,17235
9	366,5	84,0015	0	68.735,	279,96	5,6015	17,2971	0	1,0744	1,1716

	5			98	4	3			3	3
9	400,7 32	122,559	0	50.330, 52	281,78 2	6,4849 8	18,7975	0	1,1726 4	1,1715 8
9	441,7 51	172,566	0	38.103, 03	284,09 4	7,3631 1	20,5648	0	1,2647 1	1,1690 4
9	490,9 73	237,365	0	28.661, 17	287,01 9	8,3849 6	22,3558	0	1,3666 8	1,1661 1
9	550,0 4	321,428	0	21.410, 99	290,72 4	9,5679 6	23,4634	0	1,4782 4	1,1652 1
9	620,9 2	430,606	0	15.660, 47	295,42 1	10,942 7	24,1301	0	1,6006 9	1,1654 6
9	666,7 78	505,724	0	13.468, 86	298,59 4	11,810 1	24,3749	0	1,6748 3	1,1658 8
9	705,9 76	572,652	0	11.703, 28	301,38 4	12,541	24,5192	0	1,7355 6	1,1662 9
9	808,0 44	757,445	0	8.572,5 3	308,94 9	14,396 9	24,7416	0	1,8835 2	1,1673 2
9	930,5 25	998,211	0	6.212,6 2	318,55 4	16,548	24,8642	0	2,0454 3	1,1683 8
9	1077, 5	1312,02	0	4.784,3 8	330,74 2	19,030 2	24,9288	0	2,2217 6	1,1693 6
9	1112, 81	1391,16	0	4.518,3 6	333,76 7	19,611 3	24,938	0	2,2616 3	1,1695 5
10	207,8 62	- 31,6083	0	1,00	0,0017 7245	0,9259 14	24,6396	0	0,5195 59	1,1739 6
10	207,9 62	- 31,5618	0	401.48 6,91	2,6969 2	0,0083 6599	-70,9058	0	0,4599 5	1,4912 2
10	208,0 62	- 31,5157	0	415.18 0,56	3,8185 1	0,0158 028	-73,4715	0	0,4601 31	1,5014 7
10	208,1 62	- 31,4697	0	418.37 8,69	4,6859 6	0,0233 496	-73,9512	0	0,4602 91	1,5029 9
10	208,2 62	- 31,4237	0	419.43 0,09	5,4277 2	0,0308 855	-74,0815	0	0,4604 51	1,5032 9
10	208,3 62	- 31,3776	0	419.70 7,77	6,0880 1	0,0384 035	-74,0998	0	0,4606 25	1,5032 4
10	208,4 62	- 31,3316	0	419.65 0,39	6,6903 2	0,0459 022	-74,0742	0	0,4607 94	1,5030 8

10	208,5 62	- 31,2855	0	419.49 8,01	7,2509 9	0,0533 42	-74,052	0	0,4609 53	1,5030 1
10	208,6 62	- 31,2394	0	420.11 5,33	7,7777	0,0605 637	-74,2736	0	0,4609 95	1,5043
10	208,7 62	- 31,1933	0	421.79 6,75	8,2767 5	0,0674 382	-74,8133	0	0,4609	1,5073 1
10	208,8 62	- 31,1472	0	424.21 6,02	8,7529 4	0,0739 738	-75,5651	0	0,4607 28	1,5114 8
10	208,9 62	- 31,1012	0	427.08 3,80	9,2098 6	0,0802 077	-76,4391	0	0,4605 27	1,5163 4
10	209,0 62	- 31,0551	0	430.21 0,48	9,6503 9	0,0861 704	-77,3771	0	0,4603 22	1,5215 7
10	209,1 62	- 31,0091	0	433.47 2,82	10,076 6	0,0918 929	-78,3433	0	0,4601 25	1,5269 8
10	209,2 62	- 30,9631	0	436.79 3,29	10,490 5	0,0973 967	-79,3155	0	0,4599 42	1,5324 6
10	209,3 62	- 30,9171	0	440.12 1,36	10,893 6	0,1027	-80,2798	0	0,4597 77	1,5379 2
10	209,4 62	- 30,8711	0	443.42 1,97	11,287 3	0,1078 21	-81,2273	0	0,4596 3	1,5433 3
10	209,5 62	- 30,8252	0	446.67 2,46	11,672 5	0,1127 76	-82,1526	0	0,4595 01	1,5486 4
10	209,6 62	- 30,7792	0	449.85 7,15	12,049 8	0,1175 85	-83,0527	0	0,4593 88	1,5538 5
10	209,7 62	- 30,7333	0	452.96 7,15	12,419 7	0,1222 59	-83,9258	0	0,4592 9	1,5589 4
10	209,8 62	- 30,6874	0	455.99 7,72	12,782 7	0,1268 16	-84,7715	0	0,4592 05	1,5639
10	209,9 82	- 30,6323	0	459.52 8,94	13,209 4	0,1321 43	-85,7509	0	0,4591 18	1,5696 9
10	210,1 26	- 30,5662	0	463.61 0,95	13,710 4	0,1383 45	-86,8749	0	0,4590 34	1,5763 9
10	210,2 99	- 30,4869	0	468.29 2,30	14,297 6	0,1455 33	-88,1537	0	0,4589 59	1,5840 9
10	210,5 06	- 30,3917	0	473.60 0,36	14,985 5	0,1538 22	-89,5913	0	0,4589 05	1,5928 6
10	210,7 55	- 30,2775	0	479.55 7,11	15,789 6	0,1633 46	-91,19	0	0,4588 83	1,6027 3



10	211,054	-30,1405	0	486.171,20	16,727	0,174259	-92,9487	0	0,458907	1,61377
10	211,412	-29,976	0	493.417,87	17,8187	0,186713	-94,8571	0	0,458994	1,62596
10	211,842	-29,7786	0	501.255,38	19,0886	0,200877	-96,9014	0	0,459161	1,63927
10	212,358	-29,5416	0	509.618,99	20,5654	0,216927	-99,0627	0	0,459431	1,65365
10	212,977	-29,2571	0	518.817,92	22,285	0,234686	-101,429	0	0,459778	1,6698
10	213,72	-28,9153	0	529.544,46	24,2927	0,253672	-104,072	0	0,460153	1,68806
10	214,612	-28,5048	0	542.392,28	26,6345	0,273696	-106,853	0	0,460561	1,70672
10	215,682	-28,0117	0	556.771,90	29,3474	0,295719	-109,382	0	0,461164	1,72214
10	216,966	-27,419	0	571.846,85	32,4949	0,320641	-111,421	0	0,462053	1,73213
10	218,506	-26,7061	0	586.978,26	36,2124	0,348897	-112,772	0	0,463292	1,73472
10	220,355	-25,8479	0	601.328,37	40,7646	0,380518	-113,145	0	0,465027	1,72714
10	222,574	-24,8135	0	613.772,72	46,3696	0,417007	-112,204	0	0,467376	1,70666
10	225,236	-23,5653	0	623.269,88	53,2594	0,460438	-109,736	0	0,470347	1,67262
10	228,431	-22,057	0	628.576,01	61,7004	0,513507	-105,608	0	0,473836	1,62627
10	232,265	-20,233	0	628.568,58	72,0114	0,579045	-99,8887	0	0,477662	1,57139
10	236,865	-18,0261	0	622.277,31	84,5519	0,66035	-92,7687	0	0,481643	1,5127
10	242,386	-15,3556	0	608.942,66	99,7055	0,761661	-84,4973	0	0,485637	1,45451
10	249,011	-12,125	0	588.001,35	117,855	0,889008	-75,3039	0	0,48955	1,39985
10	256,96	-8,21701	0	558.702,26	139,346	1,05089	-65,2808	0	0,493506	1,35013

10	266,5	-	0	511.58	164,23	1,2527	-52,5841	0	0,5007	1,2999
		3,47729		1,44	9	8			11	1
10	277,9	2,29723	0	436.95	191,57	1,5655	-36,1728	0	0,5072	1,2509
	48			4,92	2	9			43	6
10	291,6	9,57178	0	342.88	219,65	1,9341	-18,8229	0	0,5615	1,2138
	85			1,96	3	8			7	6
10	308,1	19,5507	0	247.61	246,82	2,4546	-4,5403	0	0,6504	1,1944
	69			0,44	5	2			37	3
10	327,9	33,5151	0	165.25	274,34	3,1810	6,27799	0	0,7631	1,1836
	5			4,62	5	3			97	8
10	328,0	33,5915	0	164.86	274,46	3,1852	6,33626	0	0,7638	1,1835
	51			7,30	5	9			37	9
10	328,0	33,5915	0	164.86	274,46	3,1852	6,33626	0	0,7638	1,1835
	51			7,30	5	9			37	9
10	351,6	53,4889	0	96.288,	289,01	4,2583	14,4579	0	0,9119	1,1746
	88			93		1			39	9
10	380,1	81,1127	0	66.988,	291,54	5,1310	17,2521	0	1,0198	1,1729
	73			86	5	7				3
10	414,3	117,843	0	48.640,	293,28	6,0087	18,8635	0	1,1205	1,1725
	55			63	8	6			8	7
10	455,3	165,721	0	36.755,	295,50	6,8625	20,7672	0	1,2129	1,1694
	74			59	8	8				4
10	504,5	227,968	0	27.586,	298,32	7,8580	22,5516	0	1,3147	1,1664
	96			81	6	5			5	3
10	563,6	308,974	0	20.521,	301,90	9,0135	23,6178	0	1,4264	1,1655
	63			95	7	4			9	8
10	634,5	414,504	0	15.217,	306,46	10,359	24,2382	0	1,5494	1,1658
	43			51	3	8			3	8
10	651,9	441,673	0	14.441,	307,61	10,683	24,3338	0	1,5782	1,1660
	17			56	9	1			3	4
10	719,6	552,198	0	11.238,	312,26	11,930	24,5901	0	1,6849	1,1667
				68	1	3			2	3
10	821,6	731,871	0	8.164,6	319,64	13,760	24,7849	0	1,8337	1,1677
	67			9		1				6
10	944,1	966,599	0	5.889,2	329,03	15,886	24,8897	0	1,9966	1,1687
	48			4	4	6			4	8
10	1064,	1214,98	0	4.725,9	338,73	17,901	24,9371	0	2,1428	1,1695
	1			6	5	5			5	5

11	220,6 19	-32,141	0	1,00	0,0017 7245	0,9259 14	24,6396	0	0,5195 59	1,1739 6
11	220,7 19	- 32,0943	0	394.75 6,81	2,7220 9	0,0083 0064	-70,0073	0	0,4615 34	1,4889 6
11	220,8 19	- 32,0482	0	408.34 8,70	3,8528 1	0,0156 96	-72,571	0	0,4616 7	1,4991 8
11	220,9 19	-32,002	0	411.50 5,01	4,7308 9	0,0231 733	-73,0496	0	0,4618 3	1,5007 1
11	221,0 19	- 31,9558	0	412.52 2,95	5,4782 8	0,0306 604	-73,1763	0	0,4619 94	1,5009 9
11	221,1 19	- 31,9096	0	412.80 1,85	6,1440 6	0,0381 283	-73,1959	0	0,4621 57	1,5009 5
11	221,2 19	- 31,8634	0	412.74 8,08	6,7523 5	0,0455 727	-73,1714	0	0,4623 2	1,5008 1
11	221,3 19	- 31,8171	0	412.53 4,21	7,3165 6	0,0529 958	-73,1297	0	0,4624 82	1,5006 3
11	221,4 19	- 31,7709	0	412.79 0,45	7,8466 3	0,0602 688	-73,246	0	0,4625 64	1,5013 4
11	221,5 19	- 31,7246	0	414.18 3,48	8,3496 9	0,0671 855	-73,7112	0	0,4624 86	1,5039 5
11	221,6 19	- 31,6784	0	416.48 9,93	8,8303 7	0,0737 193	-74,4455	0	0,4623 1	1,5080 3
11	221,7 19	- 31,6322	0	419.30 7,83	9,2919 5	0,0799 267	-75,3208	0	0,4621 05	1,5128 8
11	221,8 19	-31,586	0	422.39 0,19	9,7369	0,0858 581	-76,2605	0	0,4619 05	1,5181
11	221,9 19	- 31,5398	0	425.60 1,05	10,168	0,0915 378	-77,2248	0	0,4617 18	1,5234 9
11	222,0 19	- 31,4936	0	428.86 9,32	10,586 4	0,0969 991	-78,1951	0	0,4615 44	1,5289 3
11	222,1 19	- 31,4475	0	432.14 4,94	10,993 5	0,1022 67	-79,1579	0	0,4613 86	1,5343 7
11	222,2 19	- 31,4013	0	435.39 7,12	11,390 3	0,1073 64	-80,1054	0	0,4612 44	1,5397 6
11	222,3 19	- 31,3552	0	438.60 6,73	11,777 6	0,1123 07	-81,0331	0	0,4611 15	1,5450 7
11	222,4	-	0	441.75	12,156	0,1171	-81,9361	0	0,4610	1,5502

	19	31,3091		5,03	8	03			01	7
11	222,5 19	-31,263	0	444.84 0,01	12,528 1	0,1217 72	-82,8151	0	0,4609	1,5553 7
11	222,6 19	- 31,2169	0	447.85 3,08	12,892 5	0,1263 19	-83,6681	0	0,4608 11	1,5603 6
11	222,7 39	- 31,1616	0	451.37 2,13	13,321 5	0,1316 28	-84,6577	0	0,4607 2	1,5661 9
11	222,8 83	- 31,0953	0	455.45 0,16	13,825 4	0,1378 04	-85,7961	0	0,4606 3	1,5729 5
11	223,0 56	- 31,0157	0	460.13 4,75	14,416 8	0,1449 49	-87,0927	0	0,4605 5	1,5807 3
11	223,2 63	- 30,9202	0	465.46 0,63	15,109 5	0,1531 86	-88,5537	0	0,4604 9	1,5896
11	223,5 12	- 30,8056	0	471.44 5,25	15,919 8	0,1626 37	-90,1795	0	0,4604 61	1,5996
11	223,8 11	- 30,6681	0	478.08 7,04	16,863 9	0,1734 65	-91,9667	0	0,4604 77	1,6107 8
11	224,1 69	- 30,5031	0	485.36 1,67	17,963 1	0,1858 21	-93,9048	0	0,4605 56	1,6231 1
11	224,5 99	- 30,3051	0	493.21 5,63	19,242	0,1998 56	-95,9768	0	0,4607 14	1,6365 5
11	225,1 15	- 30,0673	0	501.56 9,07	20,728 5	0,2157 48	-98,1612	0	0,4609 78	1,6510 4
11	225,7 34	- 29,7817	0	510.69 5,51	22,459 1	0,2333 31	-100,538	0	0,4613 28	1,6672 1
11	226,4 77	- 29,4388	0	521.47 3,43	24,473 3	0,2521 39	-103,192	0	0,4616 92	1,6853 9
11	227,3 69	-29,027	0	534.15 8,28	26,812 7	0,2722 79	-105,921	0	0,4621 09	1,7034 8
11	228,4 39	- 28,5323	0	548.38 6,57	29,527	0,2942 72	-108,491	0	0,4626 83	1,7192 9
11	229,7 23	- 27,9377	0	563.62 1,23	32,674 8	0,3188 83	-110,672	0	0,4634 99	1,7305 9
11	231,2 63	- 27,2227	0	579.13 3,01	36,362 4	0,3468 43	-112,225	0	0,4646 31	1,7350 7
11	233,1 12	- 26,3622	0	593.96 7,29	40,880 3	0,3779 55	-112,816	0	0,4662 2	1,7295 1
11	235,3	-	0	606.90	46,511	0,4134	-111,995	0	0,4684	1,7099

	31	25,3254		3,18	3	09			72	8
11	237,9 93	- 24,0744	0	616.65 1,58	53,387 5	0,4563 85	-109,563	0	0,4713 55	1,6761 2
11	241,1 88	- 22,5631	0	622.05 4,76	61,798 9	0,5091 41	-105,462	0	0,4747 19	1,6299 2
11	245,0 22	- 20,7361	0	622.31 9,41	72,082 9	0,5740 6	-99,8067	0	0,4784 15	1,5753 7
11	249,6 22	- 18,5261	0	616.51 4,85	84,611 6	0,6543 24	-92,7666	0	0,4822 86	1,5168 9
11	255,1 43	- 15,8521	0	603.56 3,12	99,773 3	0,7538 39	-84,499	0	0,4863 43	1,4582 8
11	261,7 68	-12,614	0	580.04 4,07	117,89 3	0,8750 15	-74,6743	0	0,4918 43	1,4006 5
11	269,7 17	- 8,66834	0	533.93 6,16	138,92 3	1,0254 7	-61,3124	0	0,5000 87	1,3400 4
11	279,2 57	-3,8681	0	468.55 4,63	162,64 9	1,2494 5	-45,971	0	0,5057 32	1,2869
11	290,7 04	1,94633	0	389.15 7,24	188,87 2	1,5916 4	-30,002	0	0,5097 5	1,2451 1
11	304,4 41	9,27066	0	304.32 6,62	216,84 5	1,9384 8	-15,2378	0	0,5636 63	1,2165 9
11	320,9 26	19,2009	0	224.68 4,48	246,20 6	2,3920 3	-3,51039	0	0,6413 84	1,2009 8
11	340,7 07	32,8129	0	155.67 3,85	278,01 6	2,9914 7	6,01828	0	0,7361 22	1,1895 1
11	341,7 61	33,5915	0	152.28 2,41	279,53 4	3,0280 1	6,55727	0	0,7417 11	1,1885 7
11	341,7 61	33,5915	0	152.28 2,41	279,53 4	3,0280 5	6,55727	0	0,7417	1,1885 7
11	364,4 45	51,8912	0	92.381, 17	298,47 5	3,9398 2	14,355	0	0,8708 18	1,1775 2
11	392,9 3	78,3949	0	63.870, 34	302,68 6	4,8052 8	17,3581	0	0,9806 42	1,1748 9
11	427,1 12	113,801	0	46.839, 85	304,37 4	5,6751	19,0067	0	1,0831 1	1,1740 8
11	468,1 31	160,139	0	35.969, 44	306,53 1	6,5100 3	21,03	0	1,1754 4	1,1702 4
11	517,3	220,545	0	27.488,	309,27	7,4863	22,7576	0	1,2774	1,1671



	53			67	2	9				9
11	576,4 2	299,352	0	20.814, 59	312,76 5	8,6223 8	23,7627	0	1,3893 8	1,1663 3
11	628,8 84	374,691	0	16.567, 36	316,03 6	9,6076 5	24,2234	0	1,4816 6	1,1664 7
11	647,3	402,284	0	15.643, 17	317,21 9	9,9493 4	24,3327	0	1,5127 4	1,1666 1
11	732,3 56	536,81	0	12.196, 52	322,9	11,500 5	24,6487	0	1,6486 4	1,1673 9
11	834,4 24	712,823	0	9.444,5 8	330,14 6	13,312 2	24,8189	0	1,7980 8	1,1683 5
11	956,9 05	943,237	0	7.264,8 6	339,38 9	15,421 8	24,9088	0	1,9618 3	1,1692 8
11	1000, 88	1030,73	0	6.672,7 4	342,84	16,163 1	24,927	0	2,0171 3	1,1695 6
12	253,0 56	- 33,3899	0	1,00	0,0017 7245	0,9259 14	24,6396	0	0,5195 59	1,1739 6
12	253,1 56	-33,343	0	379.28 1,02	2,7533 4	0,0081 582	-67,926	0	0,4650 26	1,4837 3
12	253,2 56	- 33,2964	0	392.42 1,42	3,8961 4	0,0154 377	-70,4672	0	0,4651 6	1,4938 9
12	253,3 56	- 33,2499	0	395.42 6,21	4,7842 6	0,0227 903	-70,9369	0	0,4653 28	1,4954 3
12	253,4 56	- 33,2034	0	396.34 5,11	5,5404	0,0301 487	-71,0554	0	0,4655 02	1,4957 1
12	253,5 56	- 33,1568	0	396.55 0,85	6,2127 4	0,0374 968	-71,0676	0	0,4656 71	1,4956 6
12	253,6 56	- 33,1102	0	396.44 2,31	6,8257 5	0,0448 316	-71,0373	0	0,4658 37	1,4955 1
12	253,7 56	- 33,0637	0	396.18 1,04	7,3948 7	0,0521 406	-70,9898	0	0,466 2	1,4953 2
12	253,8 56	- 33,0171	0	396.10 7,71	7,9302	0,0593 537	-71,0179	0	0,4661 27	1,4955 8
12	253,9 56	- 32,9704	0	397.08 4,25	8,4382 3	0,0662 384	-71,3786	0	0,4661 11	1,4976 4
12	254,0 56	- 32,9238	0	398.99 1,73	8,9236 9	0,0727 412	-72,0246	0	0,4659 92	1,5012 4

12	254,156	-32,8772	0	401.460,10	9,38905	0,0789206	-72,8333	0	0,465833	1,50572
12	254,256	-32,8307	0	404.244,90	9,83709	0,0848225	-73,7268	0	0,465665	1,51068
12	254,356	-32,7841	0	407.204,47	10,2703	0,0904778	-74,6613	0	0,465503	1,51589
12	254,456	-32,7376	0	410.247,56	10,6911	0,0959081	-75,6097	0	0,465353	1,5212
12	254,556	-32,691	0	413.310,95	11,1015	0,101128	-76,5538	0	0,465221	1,52651
12	254,656	-32,6445	0	416.364,48	11,5019	0,106167	-77,4863	0	0,465104	1,5318
12	254,756	-32,598	0	419.390,75	11,8926	0,11105	-78,4034	0	0,465001	1,53703
12	254,856	-32,5515	0	422.364,01	12,2752	0,115782	-79,2977	0	0,464912	1,54217
12	254,956	-32,505	0	425.284,58	12,6497	0,120387	-80,1706	0	0,464834	1,54722
12	255,056	-32,4585	0	428.137,62	13,0173	0,124863	-81,018	0	0,46477	1,55215
12	255,176	-32,4028	0	431.477,00	13,4496	0,130091	-82,0039	0	0,464705	1,55794
12	255,32	-32,3359	0	435.352,48	13,9572	0,136167	-83,1405	0	0,464647	1,56467
12	255,493	-32,2556	0	439.815,10	14,5521	0,143199	-84,4396	0	0,464602	1,57245
12	255,701	-32,1592	0	444.898,45	15,2481	0,1513	-85,9075	0	0,464578	1,58134
12	255,949	-32,0436	0	450.620,74	16,0618	0,160582	-87,5459	0	0,464591	1,59141
12	256,248	-31,9049	0	456.974,59	17,012	0,171166	-89,3495	0	0,464656	1,60267
12	256,606	-31,7384	0	463.931,36	18,1174	0,18322	-91,3092	0	0,46479	1,61514
12	257,036	-31,5385	0	471.433,63	19,4025	0,196891	-93,4076	0	0,465013	1,62876
12	257,552	-31,2985	0	479.392,76	20,8967	0,21232	-95,621	0	0,465346	1,64348

12	258,1 71	- 31,0102	0	487.70 1,27	22,633 6	0,2296 73	-97,9236	0	0,4658 13	1,6591 8
12	258,9 15	- 30,6639	0	497.42 1,95	24,657 7	0,2481	-100,579	0	0,4663 13	1,6777 3
12	259,8 06	- 30,2478	0	508.65 3,20	27,002 3	0,2672 34	-103,333	0	0,4671 58	1,6967 4
12	260,8 76	- 29,7467	0	518.60 1,50	29,681 2	0,2865 49	-105,543	0	0,4696 53	1,7117 5
12	262,1 6	- 29,1417	0	527.11 6,46	32,763 9	0,3073 73	-107,042	0	0,4728 72	1,7207 7
12	263,7 01	- 28,4104	0	534.19 6,01	36,345 7	0,3309 81	-107,719	0	0,4761 65	1,7223 4
12	265,5 5	- 27,5268	0	539.30 0,48	40,715 4	0,3569 03	-107,335	0	0,4796 02	1,7142 4
12	267,7 68	- 26,4586	0	541.37 8,23	46,083 1	0,3866 48	-105,494	0	0,4832 76	1,6934
12	270,4 3	- 25,1667	0	539.23 3,03	52,636 4	0,4225 82	-101,911	0	0,4871 49	1,6589 2
12	273,6 25	- 23,6032	0	531.30 9,69	60,621 2	0,4678 14	-96,3437	0	0,4911 42	1,6116 3
12	277,4 59	- 21,7121	0	516.90 1,96	70,328 6	0,5241 98	-89,0565	0	0,4950 51	1,5571 2
12	282,0 6	- 19,4257	0	495.37 0,03	82,084 9	0,5946 4	-80,2569	0	0,4988	1,4998 4
12	287,5 8	- 16,6622	0	465.81 9,71	96,241 8	0,6844 18	-70,1062	0	0,5023 07	1,4432 5
12	294,2 05	- 13,3237	0	428.55 8,88	113,16 8	0,7996 87	-58,9676	0	0,5054 99	1,3905 7
12	302,1 55	- 9,29304	0	384.44 3,67	133,22 9	0,9493 02	-47,2109	0	0,5083 66	1,3436 2
12	311,6 94	- 4,43097	0	335.02 5,71	156,79 2	1,1460 8	-35,2556	0	0,5108 76	1,3033
12	323,1 42	1,43026	0	282.49 4,49	184,25 3	1,4083 4	-23,5594	0	0,5130 56	1,2697 1
12	336,8 79	8,52782	0	229.06 5,38	215,95 7	1,7230 8	-12,6958	0	0,5278 64	1,2431
12	353,3 63	17,7187	0	173.72 6,44	251,41 2	2,0556 9	-2,66064	0	0,5879 09	1,2222 3

12	373,1 45	30,0881	0	123.36 3,43	290,71 3	2,5079 9	5,85681	0	0,6636 21	1,2058
12	378,3 4	33,5915	0	111.68 7,97	300,20 2	2,6437 2	8,10284	0	0,6853 88	1,2005 7
12	378,3 4	33,5915	0	111.68 7,97	300,20 2	2,6437 2	8,10284	0	0,6853 87	1,2005 7
12	388,5 87	40,9441	0	88.265, 77	309,85 3	2,9597	12,2594	0	0,7342	1,1908 2
12	388,5 87	40,9441	0	88.265, 77	309,85 3	2,9597	12,2594	0	0,7342	1,1908 2
12	396,8 82	47,2088	0	73.438, 51	320,90 9	3,2460 3	14,4884	0	0,7760 88	1,1865 6
12	425,3 67	71,2068	0	45.051, 99	341,90 4	4,1824 3	18,1324	0	0,9029 91	1,1811
12	459,5 5	104,082	0	31.877, 36	345,07 3	5,0931	19,7147	0	1,0155 6	1,1790 8
12	500,5 68	147,677	0	24.589, 10	347,11 3	5,9027 3	22,102	0	1,1088 5	1,1727
12	540,4 56	193,597	0	19.664, 60	349,21 4	6,6696 9	23,2604	0	1,1925 3	1,1702 6
12	549,7 91	204,834	0	18.775, 33	349,72 2	6,8469 8	23,442	0	1,2113	1,1699 6
12	608,8 57	279,765	0	14.681, 35	353,06 1	7,9511 2	24,1795	0	1,324	1,1691
12	679,7 38	378,077	0	11.414, 71	357,33 8	9,2465 1	24,5762	0	1,4483 1	1,1691 8
12	764,7 94	507,179	0	8.824,3 9	362,81 8	10,767 5	24,7852	0	1,5854 3	1,1696 5
12	780,6 07	532,442	0	8.447,6 9	363,87 5	11,046 6	24,8087	0	1,6097	1,1697 5
13	305,4 35	- 33,5915	0	1,00	0,0017 7245	0,9259 14	24,6396	0	0,5195 59	1,1739 6
13	305,5 35	- 33,5416	0	188.18 1,98	2,7534 1	0,0069 2772	-42,1159	0	0,4980 9	1,4272 9
13	305,6 35	- 33,4917	0	196.02 4,74	3,9031 1	0,0130 582	-44,8055	0	0,4981 77	1,4395 8
13	305,7	-	0	197.78	4,7908	0,0192	-45,3229	0	0,4982	1,4418

	35	33,4419		6,13	7	881			5	3
13	305,8	-	0	198.28	5,5469	0,0255	-45,4765	0	0,4983	1,4425
	35	33,3921		7,55	8	24			27	2
13	305,9	-	0	198.35	6,2173	0,0317	-45,5186	0	0,4984	1,4427
	35	33,3423		2,82	1	646			04	5
13	306,0	-	0	198.22	6,8285	0,0379	-45,5158	0	0,4984	1,4428
	35	33,2924		5,20	2	929			79	
13	306,1	-	0	197.99	7,3954	0,0442	-45,4913	0	0,4985	1,4427
	35	33,2426		5,79	8	053			55	8
13	306,2	-	0	197.70	7,9276	0,0504	-45,4547	0	0,4986	1,4427
	35	33,1927		6,33	5	006			31	2
13	306,3	-	0	197.37	8,4318	0,0565	-45,411	0	0,4987	1,4426
	35	33,1428		8,87	1	769			07	3
13	306,4	-33,093	0	197.04	8,9115	0,0627	-45,3693	0	0,4987	1,4425
	35			0,22	2	391			82	7
13	306,5	-	0	196.80	9,3707	0,0688	-45,3868	0	0,4988	1,4428
	35	33,0431		7,62	7	29			45	2
13	306,6	-	0	196.88	9,8124	0,0747	-45,5673	0	0,4988	1,4439
	35	32,9932		8,47	1	235			79	2
13	306,7	-	0	197.32	10,239	0,0803	-45,9329	0	0,4988	1,4459
	35	32,9433		9,50	2	519			81	9
13	306,8	-	0	198.07	10,653	0,0857	-46,4507	0	0,4988	1,4488
	35	32,8934		3,65	2	055			61	7
13	306,9	-	0	199.03	11,055	0,0908	-47,0713	0	0,4988	1,4523
	35	32,8435		0,95	8	122			32	
13	307,0	-	0	200.13	11,448	0,0956	-47,7617	0	0,4988	1,4561
	35	32,7936		9,92	2	95			01	1
13	307,1	-	0	201.34	11,831	0,1003	-48,4954	0	0,4987	1,4601
	35	32,7438		9,91	2	79			72	7
13	307,2	-	0	202.62	12,205	0,1048	-49,2552	0	0,4987	1,4643
	35	32,6939		6,41	8	85			46	8
13	307,3	-32,644	0	203.95	12,572	0,1092	-50,0328	0	0,4987	1,4687
	35			0,56	4	27			22	1
13	307,4	-	0	205.30	12,931	0,1134	-50,8201	0	0,4987	1,4731
	35	32,5941		5,47	8	19				2
13	307,5	-	0	206.95	13,354	0,1182	-51,7685	0	0,4986	1,4784
	55	32,5343		3,26	5	64			78	7
13	307,6	-	0	208.93	13,850	0,1238	-52,9009	0	0,4986	1,4849

	99	32,4625		9,41	6	36			59	
13	307,8	-	0	211.31	14,431	0,1302	-54,2421	0	0,4986	1,4925
	72	32,3763		2,44	9	04			46	9
13	308,0	-	0	214.11	15,111	0,1374	-55,8151	0	0,4986	1,5017
	79	32,2729		7,61	5	36			42	2
13	308,3	-	0	217.39	15,904	0,1455	-57,6384	0	0,4986	1,5124
	28	32,1488		1,37	5	98			53	5
13	308,6	-	0	221.15	16,828	0,1547	-59,7249	0	0,4986	1,5249
	27	31,9999		8,16	2	55			85	5
13	308,9	-	0	225.42	17,902	0,1649	-62,0797	0	0,4987	1,5393
	85	31,8212		5,39	8	6			47	5
13	309,4	-	0	230.17	19,151	0,1762	-64,6982	0	0,4988	1,5557
	15	31,6068		7,84	8	69			49	5
13	309,9	-	0	235.37	20,600	0,1887	-67,5658	0	0,4990	1,5742
	31	31,3493		3,58	7	59			02	
13	310,5	-	0	240.94	22,281	0,2024	-70,6573	0	0,4992	1,5947
	5	31,0403		3,73	4	87			15	
13	311,2	-	0	246.78	24,232	0,2175	-73,935	0	0,4995	1,6172
	93	30,6693		9,20	9	05			02	
13	312,1	-	0	252.79	26,497	0,2340	-77,195	0	0,4998	1,6402
	85	30,2238		5,48	7	83			74	
13	313,2	-	0	259.47	29,127	0,2517	-80,3667	0	0,5003	1,6627
	55	29,6887		2,09	4	47			06	7
13	314,5	-29,046	0	267.34	32,182	0,2696	-83,5039	0	0,5007	1,6849
	39			8,16	9	88			92	7
13	316,0	-28,274	0	276.16	35,726	0,2882	-86,3445	0	0,5013	1,7045
	79			6,56	5	69			96	4
13	317,9	-	0	285.26	39,872	0,3084	-88,4681	0	0,5021	1,7177
	28	27,3463		7,04	5	5			47	8
13	320,1	-	0	293.64	44,963	0,3306	-89,268	0	0,5030	1,7193
	47	26,2312		0,73	1	66			94	
13	322,8	-	0	299.92	51,217	0,3575	-88,0997	0	0,5043	1,7038
	09	24,8902		1,79	3	21			02	6
13	326,0	-	0	302.64	58,850	0,3922	-84,5757	0	0,5057	1,6698
	04	23,2768		8,44	1	2			45	3
13	329,8	-	0	300.52	68,156	0,4377	-78,7013	0	0,5073	1,6204
	38	21,3347		5,30	4	11			31	3
13	334,4	-	0	292.74	79,508	0,4971	-70,8014	0	0,5089	1,5618

	38	18,9969	0,81	1	34				27	1
13	339,9 59	- 16,1827	0	278.78 5,12	93,339 2	0,5739 27	-61,3716	0	0,5105 34	1,5006
13	346,5 83	- 12,7953	0	258.75 9,16	110,10 5	0,6730 82	-50,9381	0	0,5120 75	1,4417 7
13	354,5 33	- 8,71851	0	233.61 1,53	130,28 7	0,8012 9	-40,055	0	0,5134 96	1,3885 2
13	364,0 73	- 3,81337	0	204.63 3,29	154,39 6	0,9672 81	-29,2215	0	0,5148 04	1,3423 2
13	375,5 2	2,08685	0	173.66 1,13	183,00 6	1,1824 1	-18,9679	0	0,5159 62	1,3038 1
13	389,2 57	9,18201	0	142.41 9,19	216,78 5	1,4607 7	-9,73005	0	0,5169 81	1,2727 6
13	405,7 42	17,7922	0	111.90 6,82	256,32 4	1,7650 9	-1,57243	0	0,5382 58	1,2475 4
13	425,5 23	29,0581	0	79.887, 25	300,7	2,1319 8	6,57048	0	0,6034 51	1,2232 2
13	432,8 69	33,5915	0	69.194, 53	315,89 2	2,2990 8	9,53273	0	0,6314 79	1,2138 3
13	432,8 69	33,5915	0	69.194, 53	315,89 2	2,2990 8	9,53273	0	0,6314 79	1,2138 3
13	449,2 61	44,806	0	48.187, 48	329,10 4	2,7511 5	14,9574	0	0,7033 91	1,1967 7
13	461,5 75	54,1044	0	37.082, 48	341,57 4	3,1421 1	17,1675	0	0,7614 49	1,1908 2
13	461,5 75	54,1044	0	37.082, 48	341,57 4	3,1421 1	17,1675	0	0,7614 48	1,1908 2
13	477,7 46	67,0202	0	27.443, 60	363,17 8	3,6652 2	18,8253	0	0,8346 88	1,1868 4
13	491,2 98	78,7128	0	22.354, 44	376,28 6	4,0817 3	19,6322	0	0,8900 13	1,1850 5
13	511,9 28	97,8917	0	17.374, 52	387,24 5	4,7010 3	21,2844	0	0,9682 07	1,1802 8
13	552,9 47	139,717	0	13.351, 71	390,23	5,5258 2	23,0726	0	1,0661 3	1,1749 2
13	602,1 69	194,759	0	10.400, 39	392,75 2	6,4486 1	24,002	0	1,1688 4	1,1725 5
13	619,7	215,56	0	9.590,1	393,69	6,7725	24,1924	0	1,2034	1,1721

	05			5		9			5	5
14	578,1 81	- 33,5915	0	1,00	0,0017 7245	0,9259 14	24,6396	0	0,5195 59	1,1739 6
14	578,2 81	- 33,5397	0	15.619, 62	2,7838 2	0,0060 5789	-19,1368	0	0,5181 04	1,3883 9
14	578,3 81	- 33,4879	0	16.005, 20	3,9668 1	0,0115 434	-21,7605	0	0,5181 19	1,4028 9
14	578,4 81	- 33,4361	0	16.060, 14	4,8769 3	0,0171 123	-22,3206	0	0,5181 26	1,4060 3
14	578,5 81	- 33,3843	0	16.058, 83	5,6476 9	0,0226 992	-22,5263	0	0,5181 32	1,4072
14	578,6 81	- 33,3325	0	16.041, 26	6,3289 2	0,0283 024	-22,6229	0	0,5181 36	1,4077 6
14	578,7 81	- 33,2807	0	16.017, 74	6,9481 9	0,0339 076	-22,6749	0	0,5181 41	1,4080 7
14	578,8 81	- 33,2288	0	15.990, 92	7,5237 2	0,0394 905	-22,7056	0	0,5181 45	1,4082 6
14	578,9 81	-33,177	0	15.961, 35	8,0650 1	0,0450 527	-22,7243	0	0,5181 49	1,4083 8
14	579,0 81	- 33,1252	0	15.930, 13	8,5750 3	0,0506 163	-22,7359	0	0,5181 54	1,4084 6
14	579,1 81	- 33,0734	0	15.898, 48	9,0592 5	0,0561 786	-22,7432	0	0,5181 58	1,4085 2
14	579,2 81	- 33,0216	0	15.866, 60	9,5228 1	0,0617 298	-22,7475	0	0,5181 62	1,4085 6
14	579,3 81	- 32,9698	0	15.834, 44	9,9692 2	0,0672 647	-22,7499	0	0,5181 66	1,4086
14	579,4 81	-32,918	0	15.802, 16	10,400 3	0,0727 868	-22,7508	0	0,5181 71	1,4086 2
14	579,5 81	- 32,8661	0	15.778, 29	10,816 9	0,0782 575	-22,7892	0	0,5181 74	1,4088 5
14	579,6 81	- 32,8143	0	15.783, 35	11,221 4	0,0835 121	-22,9622	0	0,5181 76	1,4098 3
14	579,7 81	- 32,7625	0	15.809, 69	11,614 9	0,0885 727	-23,2343	0	0,5181 76	1,4113 7
14	579,8 81	- 32,7107	0	15.854, 82	11,998 7	0,0934 328	-23,5938	0	0,5181 75	1,4134

14	579,9 81	- 32,6589	0	15.915, 73	12,373 4	0,0980 935	-24,0259	0	0,5181 74	1,4158 5
14	580,0 81	- 32,6071	0	15.988, 45	12,740 3	0,1025 7	-24,5124	0	0,5181 73	1,4186 1
14	580,1 81	- 32,5552	0	16.070, 46	13,099 9	0,1068 77	-25,0417	0	0,5181 71	1,4216 2
14	580,3 01	- 32,4931	0	16.178, 41	13,522 4	0,1118 37	-25,7211	0	0,5181 69	1,4255
14	580,4 45	- 32,4184	0	16.318, 11	14,017 9	0,1175 11	-26,5835	0	0,5181 67	1,4304 5
14	580,6 18	- 32,3289	0	16.495, 81	14,597 7	0,1239 51	-27,6655	0	0,5181 65	1,4367 1
14	580,8 25	- 32,2215	0	16.718, 06	15,275	0,1311 97	-29,0068	0	0,5181 63	1,4445 4
14	581,0 74	- 32,0925	0	16.991, 29	16,065 4	0,1392 71	-30,6481	0	0,5181 62	1,4542 3
14	581,3 73	- 31,9378	0	17.321, 23	16,985 8	0,1481 85	-32,6292	0	0,5181 61	1,4660 8
14	581,7 31	- 31,7521	0	17.712, 38	18,055	0,1579 43	-34,9849	0	0,5181 62	1,4804 2
14	582,1 61	- 31,5293	0	18.165, 46	19,297 5	0,1685 08	-37,7317	0	0,5181 65	1,4975
14	582,6 77	-31,262	0	18.685, 13	20,737 6	0,1798 62	-40,9059	0	0,5181 71	1,5177 2
14	583,2 96	- 30,9411	0	19.268, 18	22,407 9	0,1919 52	-44,5043	0	0,5181 81	1,5413
14	584,0 39	- 30,5561	0	19.911, 93	24,345 6	0,2047 2	-48,5245	0	0,5181 94	1,5685 4
14	584,9 31	- 30,0941	0	20.608, 15	26,596	0,2181 73	-52,8884	0	0,5182 13	1,5992 2
14	586,0 01	- 29,5396	0	21.336, 79	29,208 9	0,2327 92	-57,1603	0	0,5182 38	1,6304 3
14	587,2 85	- 28,8742	0	22.128, 84	32,240 9	0,2484 43	-61,0816	0	0,5182 69	1,6600 9
14	588,8 25	- 28,0757	0	23.084, 41	35,762	0,2634 14	-64,999	0	0,5183 01	1,6907 4
14	590,6 74	- 27,1174	0	24.186, 19	39,841 8	0,2779 32	-68,7077	0	0,5183 41	1,7207 1



14	592,8 93	- 25,9673	0	25.343, 46	44,739 7	0,2926 88	-71,5473	0	0,5183 94	1,7442
14	595,5 55	- 24,5871	0	26.388, 03	50,800 5	0,3099 21	-72,4304	0	0,5184 67	1,7511 8
14	598,7 5	- 22,9306	0	27.135, 38	58,199 6	0,3334 18	-70,6921	0	0,5185 57	1,7356 4
14	602,5 84	- 20,9423	0	27.394, 86	67,194 2	0,3666 5	-66,1514	0	0,5186 61	1,6973 8
14	607,1 84	-18,556	0	27.019, 02	78,169 5	0,4124	-59,1969	0	0,5187 72	1,6424
14	612,7 05	- 15,6917	0	25.915, 99	91,614 7	0,4736 99	-50,5111	0	0,5188 87	1,5789 4
14	619,3 3	- 12,2538	0	24.153, 22	108,10 2	0,5541 91	-40,8988	0	0,5189 92	1,5145 1
14	627,2 79	- 8,12763	0	21.899, 22	128,25 9	0,6585 67	-31,0999	0	0,5190 85	1,4542 3
14	636,8 19	- 3,17531	0	19.297, 58	152,76 9	0,7927 99	-21,7016	0	0,5191 76	1,4007 9
14	648,2 66	2,7685	0	16.499, 05	182,39 2	0,9644 7	-13,1178	0	0,5192 61	1,3551
14	662,0 03	9,90219	0	13.643, 18	217,98 9	1,1838 9	-5,51837	0	0,5193 42	1,3165 5
14	678,4 88	18,4639	0	10.831, 84	260,47 3	1,4671 7	1,06275	0	0,5194 17	1,2841 2
14	698,2 69	28,8646	0	8.047,6 2	310,08 8	1,7902 9	7,83066	0	0,5445 98	1,2514 1
14	706,7 53	33,5915	0	6.875,2 3	330,00 2	1,9371 8	10,8854	0	0,5708 81	1,2366 3
14	706,7 53	33,5915	0	6.875,2 3	330,00 2	1,9372 6	10,8854	0	0,5708 59	1,2366 3
14	706,7 54	33,5919	0	6.875,1 4	330,00 2	1,9372 7	10,8857	0	0,5708 61	1,2366 3
14	722,0 07	43,1114	0	4.863,9 9	335,84 6	2,2911 4	15,6949	0	0,6308 58	1,2133
14	750,4 92	64,3945	0	2.683,6 0	362,51 2	3,0811 8	19,3821	0	0,7526 53	1,1954 8
14	766,3 67	77,708	0	2.010,8 6	380,72 2	3,5572 4	20,3754	0	0,8199 09	1,1908 2

14	766,3 67	77,708	0	2.010,8 6	380,72 2	3,5571 2	20,3754	0	0,8199 37	1,1908 2
14	784,6 74	93,4664	0	1.475,1 4	405,44 6	4,1792 7	22,3112	0	0,9026 36	1,1832 5
14	786,5 9	95,2044	0	1.430,9 8	407,46 6	4,2488 8	22,4497	0	0,9115 67	1,1827 2
14	825,6 93	134,111	0	891,64	431,64 2	5,5453 6	23,9304	0	1,0685 5	1,1770 6
14	874,9 15	189,678	0	678,59	436,11 7	6,5653 4	24,4587	0	1,1813 6	1,1750 6
14	898,7 01	218,345	0	609,50	437,40 3	7,0127 1	24,5917	0	1,2287 2	1,1745 7

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			Final
					Release	Rainout	Pool vapour pick-up	
1	Continuou s	0	0	kg/s	149,509	149,301		0,20818 2
2	Continuou s	0,22	-0,46182	kg/s	149,509	149,301		4,17918
3	Continuou s	53,156 1	-20,3177	kg/s	149,509	149,301		131,107
4	Continuou s	85,531 9	-24,3788	kg/s	149,509	149,301		124,704
5	Continuou s	119,55 1	-26,6243	kg/s	149,509	149,301		126,51
6	Continuou s	153,01 6	-28,4909	kg/s	149,509	149,301		129,097
7	Continuou s	185,90 1	-30,042	kg/s	149,509	149,301		130,941
8	Continuou s	218,34	-31,3708	kg/s	149,509	149,301		132,55
9	Continuou s	245,79 5	-32,3699	kg/s	149,509	149,301		119,472
10	Continuou s	245,79 6	-32,3699	kg/s	0	0	119,26 4	119,264

11	Continuou s	250,43 6	-32,5366	kg/s	0	0	108,829
12	Continuou s	259,41 9	-32,826	kg/s	0	0	87,9615
13	Continuou s	297,47 2	-32,8301	kg/s	0	0	47,4092
14	Continuou s	527,82 9	-32,8301	kg/s	0	0	3,49933

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	999.54 7,10	0,13506	0,0647 255	-160,259	0	11,718 3	2,0337 1
1	0,01	0,10890 7	0	962.97 3,95	0,14586 6	0,0777 923	-151,606	0	10,165 2	1,9148 3
1	0,02	0,20489 1	0	934.22 1,09	0,15735 4	0,0883 396	-144,479	0	9,0976	1,8299 2
1	0,03	0,29164	0	910.70 1,44	0,16931	0,0969 42	-138,379	0	8,3052 3	1,7645 6
1	0,04	0,37141 8	0	890.93 0,87	0,18154 5	0,1040 98	-133,017	0	7,6845	1,7116 6
1	0,05	0,44563 4	0	874.00 2,71	0,19393 3	0,1101 34	-128,215	0	7,1814 9	1,6673 6
1	0,06	0,51529 7	0	859.29 4,41	0,20638 6	0,1152 99	-123,851	0	6,7631 9	1,6292 8
1	0,07	0,58114	0	846.31 2,94	0,21883 8	0,1198 04	-119,828	0	6,4080 2	1,5958 3
1	0,08	0,64366 7	0	834.50 2,07	0,23124 2	0,1238 62	-116,04	0	6,1014 3	1,5657 2



1	0,09	0,70326 6	0	823.15 5,06	0,24356 3	0,1277 57	-112,36	0	5,8318 6	1,5378 5
1	0,1	0,76029 5	0	811.85 0,10	0,25577 4	0,1316 88	-108,711	0	5,5908 1	1,5116
1	0,11	0,81507	0	800.69 4,22	0,26785 7	0,1356 43	-105,117	0	5,3735 6	1,4869 9
1	0,12	0,86779 4	0	789.79 9,60	0,27979 9	0,1395 59	-101,604	0	5,1778 6	1,464
1	0,13	0,91866 3	0	779.16 0,29	0,29158	0,1434 31	-98,1757	0	5,0010 2	1,4425 2
1	0,14	0,96785	0	768.75 9,66	0,30318 5	0,1472 51	-94,8483	0	4,8407 1	1,4225 9
1	0,15	1,01551	0	758.57 5,52	0,3146	0,1510 11	-91,6353	0	4,6949	1,4041 9
1	0,16	1,06178	0	748.59 6,53	0,32581 3	0,1547 17	-88,5353	0	4,5618 7	1,3871 9
1	0,17	1,10677	0	738.81 6,04	0,33681 5	0,1583 74	-85,5432	0	4,4401 5	1,3714 6
1	0,18	1,15061	0	729.22 9,21	0,34759 8	0,1619 9	-82,6532	0	4,3284 9	1,3568 6
1	0,19	1,19337	0	719.83 2,14	0,35815 3	0,1655 69	-79,8596	0	4,2258 2	1,3432 9
1	0,2	1,23515	0	710.62 0,55	0,36847 5	0,1691 16	-77,1577	0	4,1312 1	1,3306 3
1	0,212	1,2841	0	699.80 5,56	0,38054 6	0,1733 37	-74,0311	0	4,0271 5	1,3165 4
1	0,226 4	1,34128	0	687.16 4,88	0,39456 4	0,1783 6	-70,4348	0	3,9143 9	1,3010 4
1	0,243 68	1,40787	0	672.46 8,80	0,41069 5	0,1843 41	-66,3283	0	3,7942 5	1,2842 1
1	0,264 416	1,48523	0	655.48 7,27	0,42902 2	0,1914 81	-61,6841	0	3,6686	1,2662 3
1	0,289 299	1,57487	0	636.01 2,18	0,44947 2	0,2000 44	-56,4886	0	3,5398 8	1,2473 7
1	0,319 159	1,67859	0	613.88 1,50	0,47167 3	0,2104 14	-50,7538	0	3,4110 5	1,2280 1
1	0,354 991	1,7985	0	589.02 1,11	0,49466 9	0,2231 99	-44,5285	0	3,2853 7	1,2086 2



1	0,397 989	1,93716	0	561.50 7,45	0,51636	0,2394 85	-37,9196	0	3,1662	1,1898 3
1	0,449 587	2,09762	0	531.36 1,41	0,53501 8	0,2603 56	-31,0703	0	3,0569 5	1,1723 3
1	0,511 504	2,28366	0	497.21 1,57	0,55676 4	0,2843 99	-23,9714	0	2,9584 3	1,1566 9
1	0,585 805	2,50004	0	458.93 7,99	0,58542 9	0,3105 25	-16,8735	0	2,8718 2	1,1439
1	0,674 966	2,75259	0	417.53 7,73	0,62203 3	0,3384	-10,1945	0	2,7982 4	1,1349 1
1	0,781 959	3,04855	0	374.12 1,93	0,66745 8	0,3680 61	-4,25895	0	2,7380 8	1,1301 4
1	0,910 351	3,39681	0	329.85 8,96	0,72302 3	0,3997 26	0,693241	0	2,6908 1	1,1297 1
1	1,064 42	3,80841	0	285.98 7,18	0,79022 2	0,4348 46	5,11106	0	2,6551	1,1311 3
1	1,249 31	4,29674	0	243.66 4,17	0,87086 9	0,4743 53	8,77831	0	2,6292 3	1,1346 7
1	1,471 17	4,87787	0	204.01 9,44	0,96702	0,5197 11	11,771	0	2,6114	1,1395 4
1	1,737 4	5,57131	0	167.95 8,44	1,08099	0,5726 83	14,1772	0	2,5996 4	1,1450 6
1	2,056 88	6,40049	0	136.08 6,10	1,21548	0,6351 91	16,0851	0	2,5922	1,1506 8
1	2,407 31	7,30804	0	110.67 9,51	1,36018	0,7029 38	17,4728	0	2,5879 7	1,1556 2
1	2,407 31	7,30804	0	110.67 9,51	1,36018	0,7029 38	17,4728	0	2,5879 7	1,1556 2
1	2,440 26	7,39331	0	108.66 9,92	1,37361	0,7093 14	17,5777	0	2,5876 9	1,1560 3
1	2,900 31	8,5831	0	85.565, 80	1,5541	0,8007 21	18,7331	0	2,5850 9	1,1609 1
1	3,452 37	10,0098	0	66.342, 36	1,75734	0,9197 84	20,6006	0	2,5836 3	1,1618 2
1	4,114 84	11,7211	0	50.569, 21	1,98415	1,0744 8	22,0793	0	2,5828 6	1,1628 6
1	4,909 81	13,7742	0	37.979, 29	2,22739	1,2790 7	23,0972	0	2,5824 6	1,1643 1

1	5,863 77	16,2379	0	28.157, 22	2,48125	1,5524 4	23,7775	0	2,5822 7	1,1658 9
1	7,008 53	19,2547	0	20.550, 71	2,78739	1,8184	24,228	0	2,6929 5	1,1674
1	8,382 23	23,0456	0	14.605, 42	3,17049	2,1469 5	24,5271	0	2,8243 9	1,1687 9
1	10,03 07	27,8238	0	10.116, 36	3,6507	2,5608	24,7184	0	2,9709 3	1,1699 8
1	11,67 77	32,8304	0	7.277,7 9	4,15095	2,9942 9	24,8218	0	3,1073 1	1,1707 9
1	12,00 88	33,8654	0	6.913,6 2	4,25399	3,0848	24,8365	0	3,1339 7	1,1709 2
1	14,38 26	41,5253	0	4.834,4 5	5,01325	3,7502 1	24,9072	0	3,3146 6	1,1716 5
1	17,23 11	51,2535	0	3.326,9 0	5,96953	4,5933 6	24,9483	0	3,5133 8	1,1721 7
1	19,57 78	59,6781	0	2.495,3 0	6,79121	5,3225 9	24,9661	0	3,6651 4	1,1724
1	20,64 93	63,6411	0	2.267,7 6	7,17583	5,6656 6	24,9716	0	3,7314 4	1,1725
1	24,75 12	79,4434	0	1.531,9 5	8,69856	7,0362 4	24,9846	0	3,9708 6	1,1727 9
1	29,67 34	99,6409	0	1.001,1 6	10,6223	8,7761 9	24,9917	0	4,2308 9	1,1729 5
1	31,50 37	107,453	0	864,10	11,3605	9,3398 4	24,9932	0	4,3070 3	1,1729 9
2	0,22	- 0,46182	0	1,00	0,00177 245	0,1863 1	24,6396	0	2,5820 8	1,1739 6
2	0,32	- 0,37387 5	0	876.69 4,25	0,72279 7	0,0838 331	-139,814	0	0,8217 15	1,8177 8
2	0,42	- 0,28825 5	0	867.84 2,84	1,08604	0,1386 24	-138,276	0	0,8917 58	1,8043 7
2	0,52	- 0,19562	0	856.89 1,53	1,39757	0,1835 71	-136,507	0	0,9601 78	1,7901 2
2	0,62	-	0	845.94	1,68451	0,2218	-134,781	0	1,0239	1,7769



		0,09637 47		9,50		33			9	
2	0,711 653	1,13115 E-14	0	836.19 5,68	1,93209	0,2530 75	-133,248	0	1,0784 9	1,7655 1
2	0,711 653	1,13115 E-14	0	895.10 3,92	1,59224	0,1188 52	-143,179	0	3,1123 4	1,8493 9
2	0,72	0,02532 59	0	891.51 8,15	1,63115	0,1296 59	-142,521	0	2,9609 5	1,8430 4
2	0,82	0,27184 6	0	863.98 8,76	1,97724	0,2355 94	-137,694	0	2,1560 8	1,7998 8
2	0,92	0,47256 1	0	846.53 8,00	2,24812	0,3119 79	-134,693	0	1,8964 1	1,7751 6
2	1,02	0,65549 4	0	832.42 2,99	2,49533	0,3703 01	-131,786	0	1,7772 8	1,7498 3
2	1,12	0,82984 1	0	820.23 7,47	2,74622	0,4135 68	-128,872	0	1,7176 9	1,7238 4
2	1,22	0,99999 7	0	808.51 5,84	3,00464	0,4456 17	-125,76	0	1,6912 6	1,6962 5
2	1,32	1,16863	0	796.49 9,81	3,26594	0,4700 46	-122,359	0	1,6863 8	1,6668 4
2	1,42	1,33762	0	783.77 0,74	3,5271	0,4892 74	-118,6	0	1,6969 2	1,6355 4
2	1,52	1,50833	0	770.00 9,45	3,78607	0,5047 84	-114,427	0	1,7195 5	1,6024 1
2	1,62	1,68184	0	754.88 3,37	4,0412	0,5175 08	-109,77	0	1,7525 1	1,5674 2
2	1,72	1,85915	0	738.06 4,59	4,29084	0,5277 95	-104,515	0	1,7952 5	1,5302 6
2	1,82	2,04128	0	719.10 2,01	4,53297	0,5349 76	-98,4306	0	1,8491	1,4898 6
2	1,888 13	2,16887	0	703.99 0,62	4,69187	0,5368 11	-93,4032	0	1,8961 5	1,4582 9
2	1,888 13	2,16887	0	703.99 0,62	4,69187	0,5368 11	-93,4032	0	1,8961 5	1,4582 9
2	1,92	2,22992	0	695.61 9,10	4,75943	0,5359 53	-90,5232	0	1,9240 6	1,4408 3
2	2,02	2,42799	0	668.91 5,88	4,96715	0,5367 47	-81,6472	0	2,0070 2	1,3911 5



2	2,12	2,63275	0	642.46 8,97	5,16622	0,5412 31	-73,1724	0	2,0819 8	1,3486 9
2	2,22	2,84427	0	616.39 6,45	5,34952	0,5493 06	-65,1353	0	2,1488 5	1,3124 2
2	2,34	3,10636	0	585.86 6,47	5,54699	0,5634 42	-56,1274	0	2,2184 9	1,2759 1
2	2,484	3,43096	0	550.83 5,60	5,75102	0,5859 93	-46,3104	0	2,2878 5	1,2405 9
2	2,656 8	3,83225	0	511.66 3,27	5,94629	0,6202 01	-36,026	0	2,3531 5	1,2082
2	2,777 82	4,11934	0	486.30 6,33	6,04735	0,6485 84	-29,8048	0	2,3892 1	1,1908 2
2	2,777 82	4,11934	0	486.30 6,33	6,04735	0,6485 84	-29,8048	0	2,3892 1	1,1908 2
2	2,864 16	4,32687	0	469.29 3,52	6,09414	0,6717 44	-25,8647	0	2,4106 7	1,1807 5
2	3,112 99	4,93374	0	422.40 6,95	6,18108	0,7497 97	-16,1949	0	2,4589 4	1,1597 8
2	3,411 59	5,67411	0	372.42 2,53	6,2869	0,8509 28	-7,72536	0	2,4974 1	1,1465 9
2	3,769 91	6,57446	0	324.94 7,48	6,40514	0,9708 89	-1,21542	0	2,5252 4	1,1407 6
2	4,199 89	7,66496	0	282.83 7,29	6,53112	1,1060 5	3,58116	0	2,5444 2	1,1395 6
2	4,715 87	8,98167	0	246.22 7,34	6,66802	1,2562 5	7,33205	0	2,5574 1	1,1400 7
2	5,335 04	10,5682	0	212.47 2,06	6,8303	1,4330 4	10,3353	0	2,5663 1	1,1422 4
2	6,078 05	12,4815	0	181.08 4,88	7,02636	1,6283 5	12,7839	0	2,6010 1	1,1455 3
2	6,969 66	14,8407	0	151.45 3,37	7,26733	1,8328 7	14,8268	0	2,6930 5	1,1496 2
2	8,039 59	17,7785	0	123.87 6,71	7,56623	2,0860 5	16,5208	0	2,7976 3	1,1542
2	9,323 51	21,4465	0	98.997, 32	7,93767	2,4015 6	17,8943	0	2,9146 6	1,1589 1
2	10,86 42	26,0392	0	77.235, 26	8,40023	2,7961	19,0104	0	3,0458 3	1,1633 7



2	12,71 31	31,8096	0	58.773, 91	8,97773	3,3001 3	20,9773	0	3,1948 3	1,1636 4
2	14,93 17	39,0827	0	43.602, 73	9,70038	3,9338 6	22,3734	0	3,3601 3	1,1647 2
2	17,59 4	48,2757	0	31.521, 53	10,6063	4,7324 6	23,3303	0	3,5433 7	1,1661 8
2	20,57 55	59,1264	0	22.713, 60	11,6662	5,6736 9	23,9336	0	3,7328 2	1,1676 1
2	20,78 88	59,9243	0	22.212, 27	11,7437	5,7430 6	23,9652	0	3,7458 6	1,1677
2	24,62 26	74,7522	0	15.232, 30	13,1764	7,0397 3	24,374	0	3,9714 2	1,1691
2	29,22 31	93,5922	0	10.232, 94	14,9767	8,6746 4	24,6288	0	4,2166 8	1,1702 5
2	32,45 23	107,452	0	8.083,0 3	16,2885	9,7491	24,7276	0	4,3604 2	1,1707 9
3	53,15 61	- 20,3177	0	1,00	0,00177 245	0,1863 1	24,6396	0	2,5820 8	1,1739 6
3	53,25 61	- 20,0873	0	344.50 2,01	4,78249	0,0224 436	-74,1995	0	2,3006 7	1,5541 4
3	53,35 61	- 19,8572	0	344.24 7,03	6,77344	0,0447 105	-74,1333	0	2,3017 8	1,5537 9
3	53,45 61	-19,627	0	343.61 3,99	8,3096	0,0669 194	-74,0468	0	2,3029	1,5535 3
3	53,55 61	- 19,3966	0	342.91 1,65	9,61237	0,0890 512	-73,958	0	2,304	1,5533
3	53,65 61	- 19,1662	0	342.18 2,00	10,7666	0,1111 13	-73,8682	0	2,3051 1	1,5530 8
3	53,75 61	- 18,9356	0	341.44 2,76	11,8141	0,1331 25	-73,7783	0	2,3062 1	1,5528 7
3	53,85 61	- 18,7049	0	340.69 9,16	12,7831	0,1550 58	-73,6885	0	2,3073 1	1,5526 6
3	53,95 61	- 18,4741	0	339.95 2,65	13,6908	0,1769 06	-73,5987	0	2,3084	1,5524 5
3	54,05 61	- 18,2432	0	339.20 3,59	14,5477	0,1986 87	-73,5088	0	2,3094 9	1,5522 4
3	54,15	-	0	338.45	15,3614	0,2204	-73,4188	0	2,3105	1,5520

	61	18,0122		2,53		15			9	4
3	54,25	-	0	337.70	16,1387	0,2420	-73,3289	0	2,3116	1,5518
	61	17,7811		1,46		87			8	3
3	54,35	-	0	336.95	16,8851	0,2636	-73,2393	0	2,3127	1,5516
	61	17,5499		1,12		94			6	3
3	54,45	-	0	336.20	17,6047	0,2852	-73,1497	0	2,3138	1,5514
	61	17,3186		0,72		3			4	3
3	54,55	-	0	335.44	18,3008	0,3066	-73,0601	0	2,3149	1,5512
	61	17,0871		9,68		92			2	2
3	54,65	-	0	334.69	18,9763	0,3280	-72,9706	0	2,316	1,5510
	61	16,8556		8,84		78				2
3	54,75	-	0	333.94	19,6328	0,3494	-72,8811	0	2,3170	1,5508
	61	16,6239		8,14		01			7	2
3	54,85	-	0	333.19	20,2721	0,3706	-72,7916	0	2,3181	1,5506
	61	16,3922		7,36		61			4	2
3	54,95	-	0	332.44	20,8958	0,3918	-72,7022	0	2,3192	1,5504
	61	16,1603		6,23		58			1	2
3	55,05	-	0	331.69	21,5045	0,4130	-72,6127	0	2,3202	1,5502
	61	15,9283		5,01		08			8	2
3	55,15	-	0	330.94	22,1002	0,4340	-72,5233	0	2,3213	1,5500
	61	15,6962		3,99		94			5	2
3	55,27	-	0	330.04	22,7987	0,4593	-72,4161	0	2,3226	1,5497
	61	15,4176		3,25		31			2	8
3	55,42	-15,083	0	328.96	23,616	0,4895	-72,2877	0	2,3241	1,5495
	01			3,04					5	
3	55,59	-	0	327.76	24,5698	0,5253	-72,1694	0	2,3258	1,5493
	29	14,6813		2,36		18			9	7
3	55,80	-	0	326.65	25,6808	0,5671	-72,1546	0	2,3277	1,5499
	03	14,1988		6,71		25			1	9
3	56,04	-	0	325.87	26,9711	0,6151	-72,3366	0	2,3295	1,5519
	91	13,6194		2,75		6				2
3	56,34	-	0	325.52	28,467	0,6697	-72,7711	0	2,3312	1,5555
	77	12,9235		2,42		57			6	5
3	56,70	-	0	325.72	30,1966	0,7310	-73,5043	0	2,3330	1,5611
	6	12,0878		1,67		77			7	7
3	57,13	-	0	326.41	32,1876	0,7999	-74,4457	0	2,3351	1,5681
	6	11,0841		0,76		73			8	7
3	57,65	-	0	327.45	34,4691	0,8784	-75,2964	0	2,3378	1,5742



	2	9,87851		7,82		19			7	6
3	58,27 12	- 8,42988	0	328.64 1,94	37,0734	0,9687 34	-75,8189	0	2,3414 7	1,5776 7
3	59,01 42	- 6,68837	0	329.62 7,00	40,036	1,0736 2	-75,8425	0	2,3463 3	1,5772
3	59,90 58	- 4,59338	0	329.97 6,11	43,4928	1,1939 7	-75,1858	0	2,3529 2	1,5716 9
3	60,97 57	- 2,07098	0	328.93 8,62	47,782	1,3279 2	-73,4557	0	2,3621 5	1,5586 5
3	61,85 09	1,64528 E-12	0	326.75 9,82	51,3956	1,4327 9	-71,3098	0	2,3708 4	1,5433 8
3	61,85 09	1,64528 E-12	0	328.20 9,10	51,2282	1,4299 5	-71,5253	0	2,3780 7	1,5440 9
3	62,25 96	0,97303 1	0	326.64 6,27	52,9452	1,4795 4	-70,2714	0	2,3813	1,5355
3	63,80 03	4,6695	0	318.57 8,32	59,4879	1,6446 5	-64,5981	0	2,4301 6	1,4985 7
3	65,64 92	9,2544	0	304.21 3,80	67,3274	1,8322 3	-55,9592	0	2,5309 7	1,4473 8
3	67,86 78	15,0115	0	280.15 0,30	76,4927	2,0915	-43,2577	0	2,6603 6	1,3809
3	70,53 01	22,3272	0	239.22 0,99	86,6175	2,4761 2	-24,0434	0	2,8407 5	1,2954 9
3	70,76 39	22,9933	0	234.50 0,07	87,4257	2,5157	-21,957	0	2,8594 7	1,2870 9
3	70,76 39	22,9933	0	234.50 0,07	87,4257	2,5157	-21,957	0	2,8594 8	1,2870 9
3	73,72 49	31,8242	0	173.75 7,42	95,8494	3,1011 9	-1,34227	0	3,0968 9	1,2158 5
3	77,55 87	44,1675	0	123.59 3,48	103,634	3,8932 6	8,84705	0	3,3336 1	1,1912 4
3	77,68 79	44,5985	0	122.31 4,23	103,859	3,9203 9	9,06097	0	3,3406 5	1,1908 2
3	77,68 79	44,5985	0	122.31 4,23	103,859	3,9207 6	9,06097	0	3,3403 3	1,1908 2
3	82,15 92	60,0699	0	87.340, 60	109,922	4,9307 9	14,1274	0	3,5779 7	1,1826 4
3	87,67	80,6175	0	60.068,	114,321	6,4366	17,2076	0	3,8671	1,18



	98			45		7			5	
3	94,30 46	107,388	0	40.805, 85	117,075	8,5500 7	19,0226	0	4,1984 8	1,1796 9
3	102,2 54	141,968	0	29.391, 16	120,307	10,849 8	20,5667	0	4,4954 9	1,1779 5
3	110,0 31	177,93	0	22.486, 42	123,617	13,130 2	22,0474	0	4,7489	1,1750 7
3	111,7 94	186,367	0	21.275, 72	124,387	13,649 4	22,2829	0	4,8021	1,1746 7
3	123,2 41	243,209	0	15.448, 26	129,516	17,007	23,3181	0	5,1152 6	1,1731 2
3	136,9 78	315,723	0	11.234, 72	135,939	21,011 4	23,9457	0	5,4354 9	1,1724 8
3	138,3 38	323,134	0	10.918, 05	136,588	21,406 3	23,9883	0	5,4646 2	1,1724 5
4	85,53 19	- 24,3788	0	1,00	0,00177 245	0,1863 1	24,6396	0	2,5820 8	1,1739 6
4	85,63 19	- 24,1403	0	265.77 9,12	5,19561	0,0208 489	-65,9659	0	2,3835 3	1,5424 4
4	85,73 19	- 23,9019	0	265.62 6,08	7,35705	0,0415 655	-65,924	0	2,3842	1,5422 2
4	85,83 19	- 23,6634	0	265.18 3,32	9,02445	0,0622 35	-65,8643	0	2,3848 7	1,5420 6
4	85,93 19	- 23,4249	0	264.68 5,41	10,4349	0,0828 75	-65,8023	0	2,3855 4	1,5419 2
4	86,03 19	- 23,1863	0	264.16 9,04	11,6849	0,1034 52	-65,7398	0	2,3862 1	1,5417 8
4	86,13 19	- 22,9477	0	263.64 2,49	12,8199	0,1239 86	-65,6768	0	2,3868 8	1,5416 5
4	86,23 19	- 22,7089	0	263.11 2,31	13,8669	0,1444 9	-65,6138	0	2,3875 5	1,5415 2
4	86,33 19	- 22,4702	0	262.58 0,89	14,846	0,1649 44	-65,5509	0	2,3882 1	1,5413 9
4	86,43 19	- 22,2313	0	262.04 7,29	15,7705	0,1853 39	-65,4879	0	2,3888 8	1,5412 6
4	86,53 19	- 21,9924	0	261.51 2,81	16,6491	0,2056 85	-65,425	0	2,3895 4	1,5411 3

4	86,63 19	- 21,7534	0	260.97 6,84	17,4883	0,2259 86	-65,3619	0	2,3902 1	1,541
4	86,73 19	- 21,5143	0	260.44 0,06	18,2928	0,2462 56	-65,2988	0	2,3908 7	1,5408 8
4	86,83 19	- 21,2752	0	259.90 3,40	19,0671	0,2664 91	-65,2357	0	2,3915 3	1,5407 5
4	86,93 19	-21,036	0	259.36 7,26	19,8151	0,2866 83	-65,1728	0	2,3921 9	1,5406 3
4	87,03 19	- 20,7968	0	258.83 1,37	20,5399	0,3068 3	-65,11	0	2,3928 5	1,5405
4	87,13 19	- 20,5575	0	258.29 5,36	21,2442	0,3269 27	-65,0471	0	2,3935 1	1,5403 8
4	87,23 19	- 20,3181	0	257.75 8,99	21,9298	0,3469 74	-64,9843	0	2,3941 7	1,5402 5
4	87,33 19	- 20,0786	0	257.22 3,36	22,5988	0,3669 69	-64,9215	0	2,3948 2	1,5401 3
4	87,43 19	- 19,8391	0	256.68 8,41	23,2521	0,3869 21	-64,8589	0	2,3954 7	1,54
4	87,53 19	- 19,5995	0	256.15 4,24	23,8908	0,4068 37	-64,7964	0	2,3961 2	1,5398 8
4	87,65 19	- 19,3119	0	255.51 3,40	24,6402	0,4306 72	-64,7214	0	2,3969	1,5397 3
4	87,79 59	- 18,9667	0	254.74 5,25	25,5154	0,4592 18	-64,6316	0	2,3978 3	1,5395 6
4	87,96 87	- 18,5523	0	253.82 4,75	26,5359	0,4933 63	-64,524	0	2,3989 5	1,5393 4
4	88,17 61	- 18,0547	0	252.77 4,07	27,7216	0,5340 33	-64,4192	0	2,4002 4	1,5392 4
4	88,42 49	- 17,4573	0	251.79 6,20	29,097	0,5815 92	-64,424	0	2,4016	1,5399
4	88,72 35	-16,74	0	251.21 0,63	30,6899	0,6357 94	-64,7041	0	2,4028 3	1,5423 5
4	89,08 18	- 15,8788	0	251.20 2,91	32,5303	0,6965 19	-65,3543	0	2,4039 1	1,5472 1
4	89,51 18	- 14,8449	0	251.79 3,57	34,6522	0,7639 69	-66,3905	0	2,4049 9	1,5546 3
4	90,02 78	- 13,6036	0	252.88 4,16	37,0901	0,8390 45	-67,6972	0	2,4063	1,5638 7



4	90,64 7	- 12,1132	0	254.32 9,83	39,8742	0,9245 89	-68,8072	0	2,4080 6	1,5714 7
4	91,39	-10,323	0	255.88 0,03	43,0527	1,0229 6	-69,4977	0	2,4105 4	1,5758 2
4	92,28 16	- 8,17219	0	257.29 7,80	46,6593	1,1373 1	-69,6355	0	2,4139 6	1,5759 6
4	93,35 15	- 5,58683	0	258.13 0,24	50,9293	1,2676 7	-68,9586	0	2,4187 7	1,5701 7
4	94,63 54	- 2,47697	0	257.62 5,00	56,2316	1,4142 7	-67,0148	0	2,4257 4	1,5556
4	95,65 52	1,31329 E-14	0	255.93 1,58	60,5673	1,5275 8	-64,6462	0	2,4322 1	1,5389 1
4	95,65 52	1,31329 E-14	0	257.21 5,53	60,3652	1,5253	-64,8344	0	2,4378	1,5394 8
4	96,17 61	1,27194	0	255.78 0,58	62,6121	1,5814 7	-63,3213	0	2,4453	1,5292 3
4	98,02 5	5,87705	0	248.29 7,86	70,6222	1,7516	-56,7692	0	2,532	1,4872 9
4	100,2 44	11,6144	0	234.64 2,39	80,1757	1,9796 3	-46,9101	0	2,6406 3	1,4302 1
4	102,9 06	18,8301	0	211.87 4,30	91,2699	2,2995 7	-32,8004	0	2,7818 5	1,3584 4
4	105,3 2	25,7198	0	182.62 8,81	100,501	2,6570 7	-17,0764	0	2,9316 3	1,2892 8
4	105,3 2	25,7198	0	182.62 8,81	100,501	2,6570 6	-17,0764	0	2,9316 4	1,2892 8
4	106,1 01	28,0377	0	169.71 2,57	103,017	2,7978 1	-11,0402	0	2,9899 4	1,2653 7
4	109,9 34	40,0059	0	118.54 5,19	113,708	3,5616 9	5,12016	0	3,2438 4	1,2116 3
4	114,5 35	55,5011	0	82.647, 76	123,677	4,4997 4	12,4363	0	3,4835 5	1,1932 2
4	115,8 02	59,9514	0	75.770, 58	126,137	4,7575 7	13,5852	0	3,5415 6	1,1908 2
4	115,8 02	59,9514	0	75.770, 58	126,137	4,7575 7	13,5852	0	3,5415 7	1,1908 2
4	120,0 56	75,4178	0	57.622, 64	133,159	5,6788	16,2526	0	3,7299 8	1,1860 2



4	126,68	101,103	0	39.242,90	140,535	7,37288	18,5056	0	4,02266	1,18314
4	134,63	134,324	0	27.396,88	144,693	9,53339	19,7741	0	4,33157	1,18208
4	139,798	157,189	0	22.459,05	146,805	11,015	21,0779	0	4,51537	1,17894
4	144,17	177,266	0	19.328,42	148,647	12,2758	21,881	0	4,65814	1,17711
4	155,617	232,526	0	13.748,54	153,651	15,5767	23,1329	0	4,98792	1,17455
4	165,963	285,492	0	10.667,92	158,368	18,5581	23,7249	0	5,24517	1,17356
5	119,551	-26,6243	0	1,00	0,00177245	0,18631	24,6396	0	2,58208	1,17396
5	119,651	-26,3827	0	233.062,20	5,4543	0,0202742	-62,5937	0	2,41396	1,53829
5	119,751	-26,1413	0	232.959,39	7,72327	0,0404312	-62,563	0	2,41446	1,53813
5	119,851	-25,8999	0	232.609,42	9,47251	0,0605545	-62,5159	0	2,41497	1,53801
5	119,951	-25,6583	0	232.214,20	10,9529	0,0806449	-62,4669	0	2,41547	1,53797
5	120,051	-25,4168	0	231.801,72	12,2642	0,100685	-62,4172	0	2,41598	1,53788
5	120,151	-25,1751	0	231.381,05	13,4531	0,120705	-62,3671	0	2,41648	1,53769
5	120,251	-24,9335	0	230.958,92	14,5508	0,140688	-62,3173	0	2,41698	1,53768
5	120,351	-24,6917	0	230.534,44	15,5778	0,160619	-62,2674	0	2,41748	1,53758
5	120,451	-24,45	0	230.108,88	16,5469	0,180507	-62,2174	0	2,41798	1,53748
5	120,551	-24,2081	0	229.681,66	17,4671	0,200359	-62,1674	0	2,41848	1,53731
5	120,651	-23,9663	0	229.253,65	18,3452	0,220184	-62,1173	0	2,41898	1,53721
5	120,7	-	0	228.82	19,1869	0,2399	-62,0674	0	2,4194	1,5371

	51	23,7244		5,83		83			7	1
5	120,8	-	0	228.39	19,9974	0,2597	-62,0175	0	2,4199	1,5370
	51	23,4824		8,58		45			7	2
5	120,9	-	0	227.97	20,7807	0,2794	-61,9677	0	2,4204	1,5369
	51	23,2404		1,34		64			6	2
5	121,0	-	0	227.54	21,5398	0,2991	-61,9178	0	2,4209	1,5368
	51	22,9983		3,73		4			6	3
5	121,1	-	0	227.11	22,2774	0,3187	-61,868	0	2,4214	1,5367
	51	22,7562		6,11		7			5	4
5	121,2	-22,514	0	226.68	22,9953	0,3383	-61,8182	0	2,4219	1,5366
	51			8,59		61			4	4
5	121,3	-	0	226.26	23,6949	0,3579	-61,7684	0	2,4224	1,5365
	51	22,2718		1,11		22			4	5
5	121,4	-	0	225.83	24,3783	0,3774	-61,7186	0	2,4229	1,5364
	51	22,0295		3,32		41			3	5
5	121,5	-	0	225.40	25,0457	0,3969	-61,6688	0	2,4234	1,5363
	51	21,7872		5,36		36			2	6
5	121,6	-	0	224.89	25,8281	0,4202	-61,6091	0	2,4240	1,5362
	71	21,4963		1,83		88			1	5
5	121,8	-	0	224.27	26,7422	0,4482	-61,5374	0	2,4247	1,5361
	15	21,1472		5,90		56			2	1
5	121,9	-	0	223.53	27,8075	0,4817	-61,4515	0	2,4255	1,5359
	87	20,7282		7,33		28			6	5
5	122,1	-	0	222.69	29,0454	0,5216	-61,3683	0	2,4265	1,5358
	95	20,2251		0,16		38			5	8
5	122,4	-	0	221.84	30,4808	0,5686	-61,355	0	2,4276	1,5363
	44	19,6212		0,90		7			1	2
5	122,7	-	0	221.34	32,1414	0,6224	-61,6073	0	2,4285	1,5384
	42	18,8962		5,27		37			6	7
5	123,1	-	0	221.28	34,059	0,6832	-62,1801	0	2,4294	1,5427
	01	18,0258		1,27		8			1	1
5	123,5	-16,981	0	221.80	36,2685	0,7509	-63,1607	0	2,4301	1,5496
	31			8,06		1			7	1
5	124,0	-	0	222.90	38,8105	0,8254	-64,5373	0	2,4310	1,5591
	47	15,7268		0,75		99			2	9
5	124,6	-	0	224.44	41,7195	0,9091	-65,9363	0	2,4321	1,5687
	66	14,2212		3,79		9			6	8
5	125,4	-	0	226.27	45,0343	1,0047	-67,0354	0	2,4337	1,576

	09	12,4135		5,22		3			7	
5	126,3	-	0	228.15	48,8008	1,1150	-67,6354	0	2,4361	1,5794
		10,2425		0,61		6			1	1
5	127,3	-	0	229.71	53,1187	1,2429	-67,5177	0	2,4394	1,5774
	7	7,63432		6,38		7			7	9
5	128,6	-	0	230.39	58,4055	1,3867	-66,3081	0	2,4443	1,5677
	54	4,49913		5,22		2			8	8
5	130,1	-	0	229.15	65,0399	1,5517	-63,3305	0	2,4517	1,5462
	95	0,72741		3,00		3			8	1
		4								
5	130,4	5,70233	0	228.66	66,3338	1,5804	-62,5978	0	2,4582	1,5411
	91	E-15		5,34		3				1
5	130,4	5,70233	0	229.83	66,1152	1,5791	-62,7683	0	2,4618	1,5416
	91	E-15		9,03		7			7	2
5	132,0	3,87895	0	225.62	72,9354	1,7152	-58,0485	0	2,5295	1,5102
	44			5,74		3			8	4
5	134,2	9,60082	0	216.00	82,6907	1,9274	-49,5683	0	2,6292	1,4584
	62			9,48		8				4
5	136,9	16,7692	0	199.22	94,1943	2,2202	-37,2896	0	2,7568	1,3916
	25			5,50		3			8	6
5	140,1	25,8454	0	170.81	107,143	2,6490	-19,8292	0	2,9296	1,3098
	19			2,69		2			3	4
5	140,7	27,8472	0	162.48	109,665	2,7575	-15,239	0	2,9728	1,2903
	98			5,20		4			8	7
5	140,7	27,8472	0	162.48	109,665	2,7575	-15,239	0	2,9728	1,2903
	98			5,20		4			9	7
5	143,9	37,5656	0	122.10	119,595	3,3502	1,09292	0	3,1813	1,2294
	53			7,25		3			4	2
5	148,5	52,8016	0	83.809,	131,108	4,2852	10,7966	0	3,4331	1,2007
	54			80		4			4	2
5	153,3	69,7524	0	60.758,	141,223	5,2522	15,0023	0	3,6460	1,1908
	38			65		9			9	2
5	153,3	69,7524	0	60.758,	141,223	5,2522	15,0023	0	3,6460	1,1908
	38			65		9			9	2
5	154,0	72,4512	0	58.096,	142,658	5,4029	15,4292	0	3,6763	1,1899
	74			34		2			3	4
5	160,6	97,7083	0	39.897,	153,196	6,8935	18,0305	0	3,9454	1,1853
	99			96		2			2	

5	168,6 49	130,236	0	27.751, 54	160,775	8,8278 4	19,5145	0	4,2370 4	1,1833 1
5	173,7 82	152,463	0	22.617, 78	163,095	10,250 2	20,4993	0	4,423	1,1812 7
5	178,1 88	172,311	0	19.319, 36	164,92	11,506 4	21,4695	0	4,5723 7	1,1788 1
5	189,6 36	226,652	0	13.619, 42	169,85	14,775	22,9323	0	4,9128 4	1,1754 6
5	199,6 02	276,912	0	10.597, 22	174,335	17,625 3	23,5891	0	5,1681	1,1741 7
6	153,0 16	- 28,4909	0	1,00	0,00177 245	0,1863 1	24,6396	0	2,5820 8	1,1739 6
6	153,1 16	- 28,2476	0	212.95 1,82	5,65151	0,0199 42	-60,5339	0	2,4316 6	1,5359 3
6	153,2 16	- 28,0044	0	212.86 5,92	8,00228	0,0397 761	-60,5084	0	2,4320 8	1,5358
6	153,3 16	- 27,7612	0	212.55 9,57	9,81393	0,0595 832	-60,4673	0	2,4325 1	1,5356 9
6	153,4 16	- 27,5179	0	212.21 3,38	11,3476	0,0793 554	-60,4246	0	2,4329 4	1,5356
6	153,5 16	- 27,2746	0	211.85 1,31	12,7052	0,0990 872	-60,3811	0	2,4333 6	1,5355 1
6	153,6 16	- 27,0312	0	211.48 2,51	13,9361	0,1188 01	-60,3374	0	2,4337 9	1,5354 3
6	153,7 16	- 26,7878	0	211.11 2,20	15,0726	0,1384 78	-60,2938	0	2,4342 1	1,5353 4
6	153,8 16	- 26,5444	0	210.73 9,67	16,136	0,1581 05	-60,2502	0	2,4346 3	1,5352 6
6	153,9 16	- 26,3009	0	210.36 6,10	17,1391	0,1776 96	-60,2065	0	2,4350 5	1,5351 8
6	154,0 16	- 26,0574	0	209.99 0,88	18,091	0,1972 61	-60,1627	0	2,4354 8	1,5350 9
6	154,1 16	- 25,8138	0	209.61 5,32	18,9993	0,2168 01	-60,1189	0	2,4359	1,5350 1
6	154,2 16	- 25,5702	0	209.24 0,08	19,8702	0,2363 14	-60,0752	0	2,4363 2	1,5349 3
6	154,3	-	0	208.86	20,7087	0,2557	-60,0316	0	2,4367	1,5348

	16	25,3266		5,26		92			4	5
6	154,4 16	- 25,0829	0	208.49 0,28	21,5191	0,2752 29	-59,9881	0	2,4371 5	1,5347 7
6	154,5 16	- 24,8391	0	208.11 4,95	22,3045	0,2946 26	-59,9445	0	2,4375 7	1,5346 9
6	154,6 16	- 24,5953	0	207.73 9,80	23,0676	0,3139 81	-59,9009	0	2,4379 9	1,5346 1
6	154,7 16	- 24,3515	0	207.36 4,76	23,8097	0,3333 09	-59,8574	0	2,4384 1	1,5345 3
6	154,8 16	- 24,1077	0	206.98 9,49	24,5334	0,3525 98	-59,8138	0	2,4388 2	1,5344 5
6	154,9 16	- 23,8638	0	206.61 4,02	25,2395	0,3718 61	-59,7703	0	2,4392 4	1,5343 7
6	155,0 16	- 23,6198	0	206.23 8,47	25,9293	0,3911 03	-59,7267	0	2,4396 6	1,5342 9
6	155,1 36	-23,327	0	205.78 7,98	26,7378	0,4141 5	-59,6744	0	2,4401 6	1,5341 9
6	155,2 8	- 22,9756	0	205.24 7,79	27,6823	0,4417 62	-59,6118	0	2,4407 5	1,5340 8
6	155,4 53	- 22,5538	0	204.60 0,30	28,783	0,4748 11	-59,5368	0	2,4414 7	1,5339 4
6	155,6 6	- 22,0474	0	203.86 7,02	30,0626	0,5141 77	-59,4707	0	2,4423 2	1,5339 2
6	155,9 09	- 21,4396	0	203.11 6,66	31,5467	0,5606 49	-59,4637	0	2,4432 1	1,5343 4
6	156,2 08	- 20,7099	0	202.58 7,05	33,2618	0,6143 55	-59,6598	0	2,4440 7	1,5360 9
6	156,5 66	- 19,8341	0	202.50 2,33	35,2413	0,6750 48	-60,1986	0	2,4448	1,5400 5
6	156,9 96	- 18,7827	0	202.97 6,75	37,522	0,7425 9	-61,1523	0	2,4454 1	1,5467 1
6	157,5 12	- 17,5206	0	204.02 9,57	40,1448	0,8169 99	-62,5375	0	2,4460 4	1,5562 6
6	158,1 31	- 16,0058	0	205.58 4,10	43,1517	0,8992 76	-64,1743	0	2,4468 7	1,5675 1
6	158,8 74	- 14,1874	0	207.48 2,09	46,581	0,9926 21	-65,5629	0	2,4480 9	1,5768 3
6	159,7	-	0	209.50	50,478	1,1001	-66,4498	0	2,4499	1,5823



	66	12,0038		3,23		3			2	2
6	160,8 36	- 9,38121	0	211.34 0,06	54,919	1,2250 2	-66,647	0	2,4525 9	1,5826 5
6	162,1 2	- 6,22984	0	212.51 8,21	60,2444	1,3670 7	-65,8397	0	2,4565 2	1,5757
6	163,6 6	- 2,44071	0	212.26 0,93	66,8606	1,5291 3	-63,5024	0	2,4623 8	1,5582 2
6	164,6 47	6,05185 E-12	0	211.08 2,99	71,2132	1,6183 2	-61,2833	0	2,4888 5	1,5425 6
6	164,6 47	6,05185 E-12	0	212.16 8,29	70,9833	1,6171 9	-61,4399	0	2,4921 4	1,5430 3
6	165,5 09	2,16601	0	210.30 8,34	74,8123	1,6908 7	-59,0158	0	2,528	1,5266 4
6	167,7 28	7,8795	0	203.02 9,74	84,7033	1,8927 2	-51,4756	0	2,6219 6	1,4788 7
6	170,3 9	15,0177	0	189.73 7,31	96,4677	2,1676	-40,3984	0	2,7412	1,4158 1
6	173,5 85	24,0214	0	167.40 7,34	109,997	2,5608 1	-24,8719	0	2,8979 8	1,3386 8
6	175,4 69	29,5793	0	149.43 5,02	117,334	2,8412 8	-14,172	0	3,0044 1	1,2916 8
6	175,4 69	29,5793	0	149.43 5,02	117,334	2,8412 8	-14,172	0	3,0044	1,2916 8
6	177,4 19	35,5647	0	126.41 7,45	123,755	3,1874	-3,19053	0	3,1285 3	1,2483 4
6	182,0 19	50,582	0	85.898, 57	136,576	4,1141 9	9,03897	0	3,3907	1,2083
6	187,5 4	70,0147	0	58.919, 49	149,251	5,2275	14,6212	0	3,6408 9	1,1935 8
6	189,7 06	77,9937	0	51.812, 57	153,836	5,6603 9	15,8381	0	3,7264 7	1,1908 2
6	189,7 06	77,9937	0	51.812, 57	153,836	5,6603 9	15,8381	0	3,7264 7	1,1908 2
6	194,1 65	94,9892	0	40.567, 88	162,144	6,6047	17,5777	0	3,8970 5	1,1872 9
6	202,1 14	127,096	0	28.097, 06	172,676	8,4025 3	19,2667	0	4,1772 9	1,1844 4
6	207,4	149,947	0	22.671,	176,798	9,7613	19,9879	0	4,3612	1,1833



	67			20			9			3	
6	211,654	168,512	0	19.446,81	178,623	10,9341	21,0553	0	4,50586	1,18044	
6	223,101	222,154	0	13.590,52	183,484	14,1796	22,7295	0	4,85515	1,17629	
6	233,16	272,343	0	10.498,64	187,968	17,0397	23,4726	0	5,11821	1,17469	
7	185,901	-30,042	0	1,00	0,00177245	0,18631	24,6396	0	2,58208	1,17396	
7	186,001	-29,7974	0	198.244,65	5,80923	0,0197089	-59,0332	0	2,44415	1,53428	
7	186,101	-29,553	0	198.170,32	8,22545	0,0393162	-59,0113	0	2,44452	1,53417	
7	186,201	-29,3085	0	197.896,91	10,087	0,0588989	-58,9749	0	2,44489	1,53408	
7	186,301	-29,064	0	197.582,54	11,6633	0,0784488	-58,9361	0	2,44527	1,5347	
7	186,401	-28,8195	0	197.256,80	13,0563	0,0979782	-58,8971	0	2,44564	1,53392	
7	186,501	-28,5749	0	196.925,37	14,3225	0,117458	-58,858	0	2,44601	1,53384	
7	186,601	-28,3303	0	196.590,34	15,4916	0,136905	-58,8186	0	2,44638	1,53377	
7	186,701	-28,0856	0	196.252,92	16,5829	0,156335	-58,7791	0	2,44676	1,53369	
7	186,801	-27,8409	0	195.915,58	17,6113	0,175739	-58,7398	0	2,44713	1,53362	
7	186,901	-27,5962	0	195.578,17	18,5881	0,195107	-58,7005	0	2,44749	1,53355	
7	187,001	-27,3514	0	195.240,02	19,5214	0,214433	-58,6612	0	2,44786	1,53348	
7	187,101	-27,1066	0	194.901,86	20,4174	0,233718	-58,622	0	2,44823	1,53341	
7	187,201	-26,8618	0	194.563,44	21,2799	0,252975	-58,5827	0	2,44867	1,53334	
7	187,301	-26,6169	0	194.224,44	22,1127	0,272205	-58,5434	0	2,44897	1,53326	



7	187,4 01	-26,372 0	193.88 5,25	22,9187 0,2914	-58,504 0	2,4493 1,5331
7	187,5 01	-26,127 0	193.54 6,26	23,7007 0,3105	-58,4648 0	2,4497 1,5331
7	187,6 01	-25,882 0	193.20 7,55	24,4613 0,3297	-58,4255 0	2,4500 1,5330
7	187,7 01	-25,637 0	192.86 9,29	25,2025 0,3488	-58,3864 0	2,4504 1,5329
7	187,8 01	-25,392 0	192.53 1,14	25,9261 0,3679	-58,3472 0	2,4508 1,5329
7	187,9 01	- 25,1469	192.19 3,01	26,6338 0,3870	-58,3081 0	2,4511 1,5328
7	188,0 21	- 24,8527	191.78 7,08	27,4636 0,4098	-58,2612 0	2,4516 1,5327
7	188,1 65	- 24,4996	191.30 0,23	28,4342 0,4371	-58,2049 0	2,4521 1,5326
7	188,3 38	- 24,0758	190.71 6,36	29,5656 0,4698	-58,1374 0	2,4527 1,5325
7	188,5 45	- 23,5672	190.01 5,79	30,8803 0,5090	-58,0564 0	2,4535 1,5323
7	188,7 94	- 22,9565	189.20 0,86	32,4026 0,5557	-57,9745 0	2,4544 1,5323
7	189,0 92	- 22,2236	188.61 3,69	34,1619 0,6096	-58,1078 0	2,4552 1,5336
7	189,4 51	- 21,3437	188.49 5,65	36,1917 0,6704	-58,615 0	2,4558 1,5373
7	189,8 81	- 20,2876	188.98 9,97	38,531 0,7376	-59,5903 0	2,4563 1,5440
7	190,3 97	-19,02 0	190.06 4,88	41,2209 0,8115	-61,0122 0	2,4567 1,5538
7	191,0 16	- 17,4986	191.62 3,39	44,3029 0,8931	-62,7329 0	2,4574 1,5655
7	191,7 59	- 15,6724	193.54 7,72	47,8197 0,9851	-64,3353 0	2,4583 1,5764
7	192,6 5	- 13,4798	195.65 2,37	51,8197 1,0904	-65,4957 0	2,4598 1,5839
7	193,7 2	- 10,8468	197.66 3,40	56,3615 1,2127	-65,9728 0	2,4620 1,5862



7	195,004	-7,68355	0	199.113,81	61,7491	1,35281	-65,4559	0	2,46538	1,58138
7	196,545	-3,88122	0	199.341,25	68,4118	1,51265	-63,4836	0	2,47035	1,56629
7	198,105	5,56908 E-12	0	197.895,67	75,3427	1,65066	-60,2095	0	2,51243	1,54301
7	198,105	5,56908 E-12	0	198.913,74	75,1033	1,64962	-60,356	0	2,51544	1,54344
7	198,394	0,727895	0	198.419,21	76,3962	1,67357	-59,6137	0	2,52695	1,53836
7	200,612	6,4381	0	192.641,05	86,379	1,86877	-52,7413	0	2,61748	1,49378
7	203,275	13,557	0	181.695,66	98,3202	2,13111	-42,5606	0	2,7309	1,43382
7	206,47	22,5127	0	163.161,43	112,23	2,50044	-28,3088	0	2,87763	1,36
7	209,351	31,0154	0	139.568,57	123,8	2,91039	-13,2239	0	3,02993	1,29194
7	209,351	31,0154	0	139.568,57	123,8	2,91039	-13,2239	0	3,02993	1,29194
7	210,303	33,9386	0	128.977,92	127,024	3,07477	-7,50234	0	3,08946	1,26844
7	214,904	48,7736	0	87.925,49	140,976	3,96687	7,28384	0	3,35338	1,21588
7	220,424	68,023	0	59.659,07	154,553	5,0833	13,8672	0	3,61107	1,19696
7	224,967	84,8375	0	45.800,40	164,575	5,98972	16,3961	0	3,78821	1,19082
7	224,967	84,8375	0	45.800,40	164,575	5,98972	16,3961	0	3,78821	1,19082
7	227,049	92,8051	0	41.000,87	168,828	6,41343	17,1793	0	3,86404	1,18914
7	234,999	124,629	0	28.266,31	181,628	8,13103	19,0528	0	4,13798	1,18546
7	240,458	147,711	0	22.692,34	187,477	9,4267	19,7799	0	4,31778	1,18429
7	244,538	165,621	0	19.519,74	190,163	10,5028	20,675	0	4,45407	1,18195



7	255,986	218,706	0	13.543,01	195,036	13,7251	22,5482	0	4,80996	1,17705
7	266,01	268,289	0	10.425,93	199,468	16,5624	23,3631	0	5,07664	1,17517
8	218,34	-31,3708	0	1,00	0,00177245	0,18631	24,6396	0	2,58208	1,17396
8	218,44	-31,1254	0	186.738,37	5,9427	0,0195325	-57,8619	0	2,45366	1,53303
8	218,54	-30,88	0	186.657,33	8,415	0,0389653	-57,8412	0	2,45401	1,53294
8	218,64	-30,6346	0	186.396,10	10,3184	0,058384	-57,8068	0	2,45435	1,53285
8	218,74	-30,3891	0	186.105,26	11,9314	0,0777589	-57,7712	0	2,45469	1,53278
8	218,84	-30,1436	0	185.801,30	13,3564	0,097119	-57,7349	0	2,45503	1,53271
8	218,94	-29,8981	0	185.494,60	14,6498	0,116448	-57,6988	0	2,45537	1,53264
8	219,04	-29,6526	0	185.185,43	15,8452	0,135732	-57,6626	0	2,45577	1,53257
8	219,14	-29,407	0	184.874,44	16,9622	0,154987	-57,6264	0	2,45604	1,53251
8	219,24	-29,1613	0	184.562,13	18,0144	0,174223	-57,59	0	2,45637	1,53244
8	219,34	-28,9157	0	184.249,95	19,0127	0,193437	-57,5538	0	2,45671	1,53237
8	219,44	-28,67	0	183.938,00	19,966	0,212618	-57,5176	0	2,45704	1,53231
8	219,54	-28,4243	0	183.625,61	20,8809	0,231761	-57,4814	0	2,45738	1,53224
8	219,64	-28,1785	0	183.313,11	21,7624	0,250864	-57,4452	0	2,45771	1,53218
8	219,74	-27,9327	0	183.000,68	22,6137	0,269941	-57,409	0	2,45804	1,53212
8	219,84	-27,6869	0	182.687,98	23,4384	0,288984	-57,3729	0	2,45837	1,53205
8	219,9	-	0	182.37	24,2383	0,3080	-57,3367	0	2,4587	1,5319

	4	27,4411		5,02		09			1	9
8	220,0	-	0	182.06	25,0163	0,3270	-57,3005	0	2,4590	1,5319
	4	27,1952		2,10		08			4	2
8	220,1	-	0	181.74	25,7739	0,3459	-57,2643	0	2,4593	1,5318
	4	26,9493		9,39		86			7	6
8	220,2	-	0	181.43	26,5133	0,3649	-57,2282	0	2,4597	1,5317
	4	26,7033		6,93		38				9
8	220,3	-	0	181.12	27,236	0,3838	-57,1922	0	2,4600	1,5317
	4	26,4573		4,88		63			3	3
8	220,4	-	0	180.75	28,0832	0,4065	-57,149	0	2,4604	1,5316
	6	26,1621		0,62		32			3	5
8	220,6	-	0	180.30	29,0737	0,4336	-57,0972	0	2,4609	1,5315
	04	25,8078		1,64		75				6
8	220,7	-	0	179.76	30,2286	0,4661	-57,035	0	2,4614	1,5314
	77	25,3825		2,76		58			7	5
8	220,9	-24,872	0	179.11	31,5715	0,5050	-56,9605	0	2,4621	1,5313
	84			6,65		1			5	2
8	221,2	-	0	178.38	33,1273	0,5512	-56,8979	0	2,4629	1,5313
	33	24,2592		4,97		9			3	3
8	221,5	-	0	177.84	34,9254	0,6048	-57,0324	0	2,4636	1,5326
	31	23,5237		2,01		65			8	2
8	221,8	-	0	177.71	36,9989	0,6654	-57,5178	0	2,4642	1,5361
	9	22,6408		1,19		8			7	7
8	222,3	-	0	178.14	39,3861	0,7327	-58,4571	0	2,4647	1,5426
	2	21,5811		3,50		56				4
8	222,8	-	0	179.14	42,1293	0,8067	-59,8549	0	2,4650	1,5521
	36	20,3092		7,57		62			9	7
8	223,4	-	0	180.65	45,2752	0,8879	-61,6556	0	2,4656	1,5644
	55	18,7827		6,15		05			3	8
8	224,1	-	0	182.56	48,8687	0,9785	-63,4235	0	2,4664	1,5765
	98	16,9505		6,68		95			3	1
8	225,0	-	0	184.67	52,9574	1,0825	-64,716	0	2,4676	1,5849
	9	14,7508		1,60					8	8
8	226,1	-	0	186.72	57,5943	1,2030	-65,3564	0	2,4695	1,5885
	59	12,1095		0,04		6			9	7
8	227,4	-	0	188.38	62,9939	1,3421	-65,112	0	2,4724	1,5856
	43	8,93695		6,32		9			1	3
8	228,9	-	0	189.12	69,6519	1,4996	-63,566	0	2,4766	1,5734



	84	5,12453		5,05		2				1
8	230,8 33	- 0,51105 6	0	187.94 7,76	77,9175	1,6605	-60,0205	0	2,5236 3	1,5478 7
8	231,0 35	1,58633 E-14	0	187.67 4,30	78,8297	1,6767	-59,5281	0	2,5318 4	1,5444 5
8	231,0 35	1,58633 E-14	0	188.64 0,06	78,5823	1,6757 4	-59,6665	0	2,5346 4	1,5448 6
8	233,0 52	5,19479	0	184.27 2,98	87,7274	1,8486 9	-53,8267	0	2,6140 3	1,5062 2
8	235,7 14	12,2986	0	174.98 3,70	99,8032	2,1015 3	-44,3003	0	2,7229 4	1,4487
8	238,9 09	21,2182	0	159.05 6,87	113,99	2,4533 2	-30,9507	0	2,8625 8	1,3772 3
8	242,6 47	32,2569	0	132.09 1,16	129,353	2,9663	-12,6516	0	3,0498 4	1,2928 7
8	242,6 47	32,2569	0	132.09 1,16	129,353	2,9663 1	-12,6516	0	3,0498 4	1,2928 7
8	242,7 42	32,5483	0	131.10 0,83	129,685	2,9819 2	-12,0447	0	3,0556	1,2902 8
8	247,3 43	47,2306	0	90.106, 38	144,571	3,8353 3	5,46094	0	3,3186 7	1,2237 2
8	252,8 64	66,3126	0	60.542, 02	158,943	4,9557 7	13,1236	0	3,5841 3	1,2002 3
8	259,4 35	90,7277	0	41.472, 45	173,932	6,2659 2	16,7945	0	3,8380 6	1,1908 2
8	259,4 35	90,7277	0	41.472, 45	173,932	6,2659 4	16,7945	0	3,8380 5	1,1908 2
8	259,4 88	90,9326	0	41.358, 63	174,049	6,2764 8	16,8141	0	3,8399 2	1,1907 8
8	267,4 38	122,54	0	28.443, 13	188,705	7,9292 6	18,8535	0	4,1081 1	1,1864
8	273,0 09	145,926	0	22.717, 88	195,984	9,1928	19,6525	0	4,2867 2	1,1849 4
8	276,9 78	163,208	0	19.600, 18	199,625	10,175 5	20,3149	0	4,4137 4	1,1833 7
8	288,4 25	215,82	0	13.521, 61	205,117	13,341	22,376	0	4,7709 2	1,1777 4

8	298,4 52	265,047	0	10.367, 76	209,523	16,167 4	23,2625	0	5,0415 7	1,1755 9
9	245,7 95	- 32,3699	0	1,00	0,00177 245	0,1863 1	24,6396	0	2,5820 8	1,1739 6
9	245,8 95	- 32,1238	0	178.69 6,26	6,03984	0,0194 124	-57,0451	0	2,4601 8	1,5321 9
9	245,9 95	- 31,8778	0	178.62 0,84	8,55241	0,0387 282	-57,0262	0	2,4605	1,5321
9	246,0 95	- 31,6317	0	178.37 4,45	10,487	0,0580 299	-56,9939	0	2,4608 2	1,5320 2
9	246,1 95	- 31,3856	0	178.10 1,66	12,1259	0,0772 909	-56,9606	0	2,4611 4	1,5319 5
9	246,2 95	- 31,1395	0	177.81 5,96	13,5744	0,0965 336	-56,9265	0	2,4614 5	1,5318 9
9	246,3 95	- 30,8933	0	177.52 7,71	14,8884	0,1157 52	-56,8926	0	2,4617 6	1,5318 2
9	246,4 95	- 30,6471	0	177.23 7,17	16,1027	0,1349 27	-56,8587	0	2,4620 7	1,5317 6
9	246,5 95	- 30,4009	0	176.94 5,41	17,2378	0,1540 7	-56,8247	0	2,4623 8	1,5317
9	246,6 95	- 30,1547	0	176.65 2,06	18,3071	0,1731 93	-56,7906	0	2,4626 9	1,5316 4
9	246,7 95	- 29,9084	0	176.35 8,55	19,3215	0,1922 97	-56,7565	0	2,463	1,5315 8
9	246,8 95	- 29,6621	0	176.06 5,47	20,2898	0,2113 74	-56,7226	0	2,4633 1	1,5315 2
9	246,9 95	- 29,4157	0	175.77 2,28	21,2189	0,2304 15	-56,6887	0	2,4636 2	1,5314 6
9	247,0 95	- 29,1693	0	175.47 8,69	22,1139	0,2494 19	-56,6547	0	2,4639 3	1,5314
9	247,1 95	- 28,9229	0	175.18 5,23	22,9788	0,2683 88	-56,6208	0	2,4642 4	1,5313 4
9	247,2 95	- 28,6765	0	174.89 1,77	23,8162	0,2873 34	-56,5869	0	2,4645 4	1,5312 8
9	247,3 95	-28,43	0	174.59 8,04	24,6293	0,3062 48	-56,553	0	2,4648 5	1,5312 2
9	247,4	-	0	174.30	25,4193	0,3251	-56,519	0	2,4651	1,5311



	95	28,1835		4,16		47			6	6
9	247,5 95	-27,937	0	174.01 0,40	26,1893	0,3440 19	-56,4851	0	2,4654 7	1,5311
9	247,6 95	- 27,6904	0	173.71 6,88	26,9402	0,3628 72	-56,4512	0	2,4657 7	1,5310 4
9	247,7 95	- 27,4438	0	173.42 3,61	27,6741	0,3816 99	-56,4174	0	2,4660 8	1,5309 8
9	247,9 15	- 27,1479	0	173.07 2,15	28,5343	0,4042 56	-56,3769	0	2,4664 4	1,5309 1
9	248,0 59	- 26,7927	0	172.65 0,62	29,5399	0,4312 68	-56,3283	0	2,4668 8	1,5308 2
9	248,2 31	- 26,3664	0	172.14 4,89	30,7122	0,4635 98	-56,27	0	2,4674 1	1,5307 2
9	248,4 39	- 25,8546	0	171.54 2,64	32,0753	0,5022 51	-56,203	0	2,4680 3	1,5306 2
9	248,6 88	- 25,2404	0	170.83 7,32	33,6547	0,5484	-56,1334	0	2,4687 7	1,5305 6
9	248,9 86	- 24,5032	0	170.24 7,77	35,4807	0,6021 83	-56,2163	0	2,4695 1	1,5315 1
9	249,3 45	- 23,6182	0	170.09 2,40	37,5853	0,6628 91	-56,6734	0	2,4700 7	1,5348 5
9	249,7 75	-22,556	0	170.50 3,37	40,0083	0,7301 76	-57,6007	0	2,4704 6	1,5412 3
9	250,2 9	- 21,2812	0	171.49 2,01	42,7934	0,8040 54	-59,005	0	2,4707 8	1,5507 5
9	250,9 1	- 19,7512	0	172.97 3,70	45,9868	0,8849 82	-60,8248	0	2,4712 4	1,5631 6
9	251,6 53	- 17,9148	0	174.83 7,15	49,6362	0,9747 9	-62,7168	0	2,4719 9	1,5760 9
9	252,5 44	- 15,7102	0	176.89 3,75	53,7882	1,0773 9	-64,1564	0	2,4732 1	1,5856 8
9	253,6 14	-13,063	0	178.87 3,24	58,5009	1,1961 8	-64,9347	0	2,4750 7	1,5903 6
9	254,8 98	-9,8835	0	180.50 4,77	63,9352	1,3338 7	-64,8606	0	2,4777 7	1,5887 5
9	256,4 39	- 6,06293	0	181.25 6,87	70,5961	1,4899 5	-63,5185	0	2,4817 7	1,5780 6
9	258,2	-	0	180.27	78,8645	1,6495	-60,2788	0	2,5254	1,5545



	88	1,44597		5,26					9	6
9	258,8 58	8,83756 E-12	0	179.52 7,15	81,4536	1,6957	-58,9404	0	2,5461 7	1,5452 8
9	258,8 58	8,83756 E-12	0	180.45 7,89	81,1986	1,6947 8	-59,0734	0	2,5488 3	1,5456 6
9	260,5 06	4,25664	0	176.29 7,86	88,7109	1,8327 5	-54,3258	0	2,6133 1	1,5145 4
9	263,1 69	11,3594	0	164.43 2,46	100,843	2,0742 5	-44,6741	0	2,7228 1	1,4572 6
9	266,3 63	20,2801	0	145.76 6,71	115,088	2,4145	-31,0695	0	2,8623 7	1,3852 8
9	270,1 97	31,6014	0	118.78 1,02	131,015	2,9240 9	-13,0174	0	3,0472 9	1,3016 2
9	270,5 99	32,8301	0	115.42 7,77	132,558	2,9872 8	-10,873	0	3,0691	1,2923 6
9	270,5 99	32,8301	0	115.42 7,77	132,558	2,9872 8	-10,873	0	3,0691	1,2923 6
9	274,7 98	46,2173	0	82.311, 77	146,415	3,7471 6	4,92062	0	3,2996 8	1,2301 2
9	280,3 18	65,1955	0	54.958, 90	161,479	4,8625 3	12,9696	0	3,5656 5	1,2036 1
9	286,9 43	89,6988	0	37.303, 78	177,329	6,1790 1	16,779	0	3,8232 7	1,1928 3
9	289,2 97	98,7931	0	33.062, 21	182,681	6,6394 4	17,5599	0	3,9035 2	1,1908 2
9	289,2 97	98,7931	0	33.062, 21	182,681	6,6394 4	17,5599	0	3,9035 2	1,1908 2
9	294,8 93	121,145	0	25.605, 29	194,014	7,7650 9	18,8473	0	4,0837 8	1,1877 3
9	297,7 58	132,973	0	22.697, 26	198,87	8,3711 2	19,3058	0	4,1730 6	1,1867 1
9	304,4 32	161,57	0	17.594, 93	207,642	9,8961 3	20,2656	0	4,3786 5	1,1844 5
9	315,8 8	213,713	0	12.091, 70	214,89	12,938 4	22,3761	0	4,7292	1,1783 6
9	321,6 61	241,53	0	10.259, 05	217,39	14,557 2	22,9609	0	4,8920 2	1,1768 2

10	245,796	-32,3699	0	1,00	0,00177245	0,18631	24,6396	0	2,58208	1,17396
10	245,896	-32,1238	0	178.384,87	6,03984	0,0194124	-57,0451	0	2,46018	1,53219
10	245,996	-31,8778	0	178.309,59	8,55241	0,0387282	-57,0262	0	2,4605	1,5321
10	246,096	-31,6317	0	178.063,63	10,487	0,0580299	-56,9939	0	2,46082	1,53202
10	246,196	-31,3856	0	177.791,32	12,1259	0,0772909	-56,9606	0	2,46114	1,53195
10	246,296	-31,1395	0	177.506,11	13,5744	0,0965336	-56,9265	0	2,46145	1,53189
10	246,396	-30,8933	0	177.218,37	14,8884	0,115752	-56,8926	0	2,46176	1,53182
10	246,496	-30,6471	0	176.928,34	16,1027	0,134927	-56,8587	0	2,46207	1,53176
10	246,596	-30,4009	0	176.637,08	17,2378	0,15407	-56,8247	0	2,46238	1,53178
10	246,696	-30,1547	0	176.344,24	18,3071	0,173193	-56,7906	0	2,46269	1,53164
10	246,796	-29,9084	0	176.051,24	19,3215	0,192297	-56,7565	0	2,463	1,53158
10	246,896	-29,6621	0	175.758,67	20,2898	0,211374	-56,7226	0	2,46331	1,53152
10	246,996	-29,4157	0	175.465,99	21,2189	0,230415	-56,6887	0	2,46362	1,53146
10	247,096	-29,1693	0	175.172,92	22,1139	0,249419	-56,6547	0	2,46393	1,53143
10	247,196	-28,9229	0	174.879,96	22,9788	0,268388	-56,6208	0	2,46424	1,53134
10	247,296	-28,6765	0	174.587,02	23,8162	0,287334	-56,5869	0	2,46454	1,53128
10	247,396	-28,43	0	174.293,80	24,6293	0,306248	-56,553	0	2,46485	1,53122
10	247,496	-28,1835	0	174.000,43	25,4193	0,325147	-56,519	0	2,46516	1,53116
10	247,596	-27,937	0	173.707,19	26,1893	0,344019	-56,4851	0	2,46547	1,53117



10	247,6 96	- 27,6904	0	173.41 4,18	26,9402	0,3628 72	-56,4512	0	2,4657 7	1,5310 4
10	247,7 96	- 27,4438	0	173.12 1,41	27,6741	0,3816 99	-56,4174	0	2,4660 8	1,5309 8
10	247,9 16	- 27,1479	0	172.77 0,57	28,5343	0,4042 56	-56,3769	0	2,4664 4	1,5309 1
10	248,0 6	- 26,7927	0	172.34 9,78	29,5399	0,4312 68	-56,3283	0	2,4668 8	1,5308 2
10	248,2 32	- 26,3664	0	171.84 4,92	30,7122	0,4635 98	-56,27	0	2,4674 1	1,5307 2
10	248,4 4	- 25,8546	0	171.24 3,72	32,0753	0,5022 51	-56,203	0	2,4680 3	1,5306 2
10	248,6 89	- 25,2404	0	170.53 9,63	33,6547	0,5484	-56,1334	0	2,4687 7	1,5305 6
10	248,9 87	- 24,5032	0	169.95 1,11	35,4807	0,6021 83	-56,2163	0	2,4695 1	1,5315 1
10	249,3 46	- 23,6182	0	169.79 6,01	37,5853	0,6628 91	-56,6734	0	2,4700 7	1,5348 5
10	249,7 76	-22,556	0	170.20 6,26	40,0083	0,7301 76	-57,6007	0	2,4704 6	1,5412 3
10	250,2 91	- 21,2812	0	171.19 3,19	42,7934	0,8040 54	-59,005	0	2,4707 8	1,5507 5
10	250,9 11	- 19,7512	0	172.67 2,29	45,9868	0,8849 82	-60,8248	0	2,4712 4	1,5631 6
10	251,6 54	- 17,9148	0	174.53 2,49	49,6362	0,9747 9	-62,7168	0	2,4719 9	1,5760 9
10	252,5 45	- 15,7102	0	176.58 5,51	53,7882	1,0773 9	-64,1564	0	2,4732 1	1,5856 8
10	253,6 15	-13,063	0	178.56 1,55	58,5009	1,1961 8	-64,9347	0	2,4750 7	1,5903 6
10	254,8 99	-9,8835	0	180.19 0,23	63,9352	1,3338 7	-64,8606	0	2,4777 7	1,5887 5
10	256,4 4	- 6,06293	0	180.94 1,02	70,5961	1,4899 5	-63,5185	0	2,4817 7	1,5780 6
10	258,2 89	- 1,44597	0	179.96 1,12	78,8645	1,6495	-60,2788	0	2,5254 9	1,5545 6
10	258,8 59	8,83756 E-12	0	179.21 4,32	81,4536	1,6957	-58,9404	0	2,5461 7	1,5452 8

10	258,8 59	8,83756 E-12	0	180.14 3,44	81,1986	1,6947 8	-59,0734	0	2,5488 3	1,5456 6
10	260,5 07	4,25664	0	175.99 0,66	88,7109	1,8327 5	-54,3258	0	2,6133 1	1,5145 4
10	263,1 7	11,3594	0	164.14 5,93	100,843	2,0742 5	-44,6741	0	2,7228 1	1,4572 6
10	266,3 64	20,2801	0	145.51 2,71	115,088	2,4145	-31,0695	0	2,8623 7	1,3852 8
10	270,1 98	31,6014	0	118.57 4,04	131,015	2,9240 9	-13,0174	0	3,0472 9	1,3016 2
10	270,6	32,8301	0	115.22 6,63	132,558	2,9872 8	-10,873	0	3,0691	1,2923 6
10	270,6	32,8301	0	115.22 6,63	132,558	2,9872 8	-10,873	0	3,0691	1,2923 6
10	274,7 99	46,2173	0	82.235, 21	146,415	3,7471 6	4,92062	0	3,2996 8	1,2301 2
10	280,3 19	65,1955	0	54.894, 80	161,479	4,8625 3	12,9696	0	3,5656 5	1,2036 1
10	286,9 44	89,6988	0	37.233, 51	177,329	6,1790 1	16,779	0	3,8232 7	1,1928 3
10	289,2 98	98,7931	0	33.117, 48	182,681	6,6394 4	17,5599	0	3,9035 2	1,1908 2
10	289,2 98	98,7931	0	33.117, 48	182,681	6,6394 4	17,5599	0	3,9035 2	1,1908 2
10	294,8 94	121,145	0	25.531, 98	194,014	7,7650 9	18,8473	0	4,0837 8	1,1877 3
10	297,7 59	132,973	0	22.897, 10	198,87	8,3711 2	19,3058	0	4,1730 6	1,1867 1
10	304,4 33	161,57	0	17.466, 10	207,642	9,8961 3	20,2656	0	4,3786 5	1,1844 5
10	315,8 81	213,713	0	11.936, 79	214,89	12,938 4	22,3761	0	4,7292	1,1783 6
10	321,6 62	241,53	0	10.158, 22	217,39	14,557 2	22,9609	0	4,8920 2	1,1768 2
11	250,4 36	- 32,5366	0	1,00	0,00177 245	0,1863 1	24,6396	0	2,5820 8	1,1739 6
11	250,5	-	0	177.38	6,05349	0,0193	-56,9118	0	2,4612	1,5320

	36	32,2904		5,17		967			4	5
11	250,6 36	- 32,0442	0	177.30 0,61	8,57058	0,0386 952	-56,8922	0	2,4615 7	1,5319 6
11	250,7 36	- 31,7981	0	177.04 4,54	10,5087	0,0579 785	-56,8587	0	2,4619	1,5318 8
11	250,8 36	- 31,5519	0	176.76 1,13	12,1507	0,0772 205	-56,8242	0	2,4622 2	1,5318 1
11	250,9 36	- 31,3056	0	176.46 4,38	13,6018	0,0964 441	-56,7889	0	2,4625 5	1,5317 4
11	251,0 36	- 31,0593	0	176.16 4,82	14,9181	0,1156 43	-56,7537	0	2,4628 7	1,5316 8
11	251,1 36	-30,813	0	175.86 2,81	16,1346	0,1347 98	-56,7184	0	2,4631 9	1,5316 1
11	251,2 36	- 30,5667	0	175.55 9,48	17,2716	0,1539 21	-56,683	0	2,4635 1	1,5315 5
11	251,3 36	- 30,3203	0	175.25 4,51	18,3427	0,1730 24	-56,6476	0	2,4638 3	1,5314 8
11	251,4 36	- 30,0739	0	174.94 9,38	19,3588	0,1921 08	-56,6122	0	2,4641 6	1,5314 2
11	251,5 36	- 29,8275	0	174.64 4,67	20,3287	0,2111 64	-56,5769	0	2,4644 8	1,5313 6
11	251,6 36	-29,581	0	174.33 9,81	21,2593	0,2301 85	-56,5417	0	2,4647 9	1,5313
11	251,7 36	- 29,3346	0	174.03 4,58	22,1558	0,2491 68	-56,5064	0	2,4651 1	1,5312 3
11	251,8 36	-29,088	0	173.72 9,49	23,0221	0,2681 15	-56,4711	0	2,4654 3	1,5311 7
11	251,9 36	- 28,8415	0	173.42 4,41	23,8608	0,2870 4	-56,4359	0	2,4657 5	1,5311 1
11	252,0 36	- 28,5949	0	173.11 9,08	24,6751	0,3059 32	-56,4006	0	2,4660 7	1,5310 5
11	252,1 36	- 28,3483	0	172.81 3,63	25,4663	0,3248 1	-56,3653	0	2,4663 9	1,5309 9
11	252,2 36	- 28,1016	0	172.50 8,33	26,2374	0,3436 6	-56,3301	0	2,4667 1	1,5309 3
11	252,3 36	- 27,8549	0	172.20 3,30	26,9894	0,3624 91	-56,2949	0	2,4670 3	1,5308 6
11	252,4	-	0	171.89	27,7244	0,3812	-56,2597	0	2,4673	1,5308

	36	27,6082		8,54		95			4	
11	252,5	-	0	171.53	28,5858	0,4038	-56,2176	0	2,4677	1,5307
	56	27,3121		3,34		26			2	3
11	252,7	-	0	171.09	29,5928	0,4308	-56,1672	0	2,4681	1,5306
		26,9567		5,37		04			8	4
11	252,8	-	0	170.56	30,7668	0,4630	-56,1066	0	2,4687	1,5305
	73	26,5302		9,97		94			2	4
11	253,0	-	0	169.94	32,1316	0,5017	-56,0355	0	2,4693	1,5304
	8	26,0182		2,07		07			7	2
11	253,3	-	0	169.19	33,7131	0,5478	-55,9557	0	2,4701	1,5303
	29	25,4036		7,77		49			4	1
11	253,6	-	0	168.56	35,5414	0,6016	-56,029	0	2,4709	1,5312
	28	24,6659		3,58		11			1	2
11	253,9	-	0	168.35	37,6486	0,6622	-56,4759	0	2,4715	1,5345
	86	23,7805		1,58		95			3	2
11	254,4	-	0	168.69	40,0746	0,7295	-57,3939	0	2,4719	1,5408
	16	22,7177		2,76		33			7	6
11	254,9	-21,442	0	169.59	42,8631	0,8033	-58,7886	0	2,4723	1,5503
	32			4,96		43			6	6
11	255,5	-19,911	0	170.97	46,0617	0,8841	-60,6057	0	2,4728	1,5628
	51			9,98		36			8	
11	256,2	-	0	172.75	49,7189	0,9736	-62,5174	0	2,4736	1,5759
	94	18,0734		5,72		63			7	1
11	257,1	-	0	174.73	53,8782	1,0759	-63,9778	0	2,4748	1,5856
	86	15,8673		5,24		3			8	9
11	258,2	-	0	176.65	58,604	1,1942	-64,7835	0	2,4767	1,5906
	56	13,2183		7,63		4			2	2
11	259,5	-	0	178.17	64,0462	1,3313	-64,7349	0	2,4795	1,5892
	39	10,0367		9,92		1			2	7
11	261,0	-6,2112	0	176.94	70,7158	1,4837	-63,1401	0	2,4867	1,5779
	8			5,72		3				4
11	262,9	-	0	172.40	78,9743	1,6414	-59,3953	0	2,5294	1,5530
	29	1,58841		5,07		1			3	3
11	265,1	4,12268	0	164.11	89,0091	1,8212	-52,8233	0	2,6192	1,5115
	48			1,42		3				6
11	267,8	11,2427	0	151.36	101,043	2,0665	-42,9759	0	2,7295	1,4540
	1			9,86					1	7
11	271,0	20,1847	0	133.53	115,206	2,4089	-29,6181	0	2,8682	1,3837

	05			0,27		8			9	1
11	274,838	31,5201	0	108.647,05	131,104	2,91843	-12,1156	0	3,04988	1,30221
11	275,266	32,8301	0	105.326,36	132,748	2,98581	-9,85709	0	3,0729	1,29234
11	275,266	32,8301	0	105.326,36	132,748	2,98581	-9,85709	0	3,0729	1,29234
11	279,439	46,1394	0	75.238,55	146,573	3,73467	5,29183	0	3,2981	1,23169
11	284,96	65,1034	0	50.093,79	161,869	4,84498	13,1609	0	3,56261	1,20489
11	291,584	89,5838	0	33.888,12	178,04	6,15618	16,8944	0	3,81947	1,19376
11	295,102	103,232	0	28.367,09	186,182	6,83985	17,9766	0	3,93735	1,19082
11	295,102	103,232	0	28.367,09	186,182	6,83984	17,9766	0	3,93736	1,19082
11	299,534	120,991	0	23.220,68	195,539	7,71682	18,9193	0	4,07659	1,18841
11	300,156	123,53	0	22.630,44	196,73	7,84342	19,0256	0	4,09573	1,18814
11	309,074	161,282	0	15.890,48	210,574	9,78468	20,3594	0	4,36449	1,18475
11	320,521	213,221	0	10.944,78	219,032	12,7478	22,4379	0	4,70911	1,17859
11	322,876	224,389	0	10.221,80	220,017	13,4052	22,6982	0	4,77763	1,17787
12	259,419	-32,826	0	1,00	0,00177245	0,18631	24,6396	0	2,58208	1,17396
12	259,519	-32,5794	0	172.590,55	6,08324	0,019325	-56,4256	0	2,46506	1,53155
12	259,619	-32,3329	0	171.886,12	8,59573	0,0385923	-56,3235	0	2,46633	1,53126
12	259,719	-32,0861	0	170.396,53	10,507	0,0578609	-56,1394	0	2,46807	1,53088
12	259,819	-31,8393	0	169.060,87	12,1275	0,0770263	-55,9843	0	2,46941	1,53061



12	259,9 19	- 31,5923	0	167.87 5,94	13,5596	0,0961 444	-55,8504	0	2,4705 3	1,5303 8
12	260,0 19	- 31,3452	0	166.80 2,39	14,8617	0,1151 89	-55,7305	0	2,4715 4	1,5301 9
12	260,1 19	- 31,0979	0	165.80 4,00	16,0652	0,1341 7	-55,6195	0	2,4724 7	1,5300 2
12	260,2 19	- 30,8507	0	164.86 6,49	17,1903	0,1530 99	-55,5154	0	2,4733 5	1,5298 7
12	260,3 19	- 30,6033	0	163.97 5,96	18,2514	0,1719 8	-55,4167	0	2,4741 8	1,5297 2
12	260,4 19	- 30,3558	0	163.12 3,00	19,2593	0,1908 14	-55,3221	0	2,4749 8	1,5295 7
12	260,5 19	- 30,1083	0	162.30 2,66	20,2206	0,2096 19	-55,2312	0	2,4757 5	1,5294 3
12	260,6 19	- 29,8607	0	161.51 0,89	21,142	0,2283 91	-55,1434	0	2,4764 9	1,5293
12	260,7 19	-29,613	0	160.74 4,41	22,0287	0,2471 29	-55,0584	0	2,4772 7	1,5291
12	260,8 19	- 29,3652	0	160.00 0,50	22,8846	0,2658 34	-54,976	0	2,4779 5	1,5290
12	260,9 19	- 29,1174	0	159.27 6,46	23,7135	0,2845 02	-54,8957	0	2,4785 7	1,5289 3
12	261,0 19	- 28,8695	0	158.57 1,06	24,5183	0,3031 33	-54,8175	0	2,4792 3	1,5288 1
12	261,1 19	- 28,6216	0	157.88 2,33	25,3005	0,3217 38	-54,7411	0	2,4798 7	1,5287
12	261,2 19	- 28,3735	0	157.20 8,55	26,0621	0,3403 19	-54,6664	0	2,4805 8	1,5285
12	261,3 19	- 28,1255	0	156.54 8,24	26,8052	0,3588 71	-54,5932	0	2,4811 1	1,5284 7
12	261,4 19	- 27,8773	0	155.90 0,34	27,5313	0,3773 94	-54,5213	0	2,4817 1	1,5283 7
12	261,5 39	- 27,5795	0	155.13 7,33	28,383	0,3995 62	-54,4366	0	2,4824 2	1,5282 4
12	261,6 83	- 27,2219	0	154.24 1,53	29,3785	0,4260 98	-54,3372	0	2,4832 5	1,5280 9
12	261,8 56	- 26,7928	0	153.19 2,13	30,5396	0,4578 32	-54,2207	0	2,4842 3	1,5279 1



12	262,063	-26,2775	0	151.963,53	31,8885	0,495789	-54,0842	0	2,48537	1,52771
12	262,312	-25,6589	0	150.531,84	33,452	0,541132	-53,9261	0	2,48669	1,52748
12	262,611	-24,9162	0	149.011,55	35,2596	0,594419	-53,8503	0	2,48814	1,52787
12	262,969	-24,0244	0	147.767,94	37,3452	0,654374	-54,1507	0	2,48953	1,53074
12	263,399	-22,9536	0	146.891,93	39,7467	0,720692	-54,9107	0	2,49089	1,53662
12	263,915	-21,668	0	146.350,61	42,5081	0,793469	-56,1261	0	2,49234	1,54559
12	264,534	-20,1243	0	146.062,22	45,6792	0,872916	-57,7589	0	2,49401	1,55752
12	265,277	-18,2704	0	145.918,37	49,3151	0,960081	-59,5721	0	2,49602	1,57087
12	266,169	-16,0439	0	145.773,52	53,4606	1,05869	-61,0143	0	2,49849	1,58168
12	267,239	-13,369	0	145.389,48	58,1741	1,17236	-61,7833	0	2,50157	1,58769
12	268,523	-10,1547	0	144.465,12	63,6075	1,30434	-61,6018	0	2,50541	1,58691
12	270,063	-6,29082	0	142.587,85	70,2056	1,4554	-60,0833	0	2,51026	1,57674
12	271,912	-1,63229	0	139.140,53	78,3878	1,61895	-56,6468	0	2,53902	1,55377
12	274,131	4,09401	0	133.181,13	88,3857	1,79589	-50,5319	0	2,62402	1,51454
12	276,793	11,2199	0	123.788,66	100,42	2,0356	-41,1989	0	2,72967	1,45882
12	279,988	20,1532	0	109.985,11	114,623	2,37227	-28,2534	0	2,86378	1,38884
12	283,822	31,4649	0	89.970,50	130,63	2,87184	-11,3238	0	3,04128	1,30774
12	284,269	32,8301	0	87.166,45	132,369	2,94054	-9,10759	0	3,06445	1,29778
12	284,269	32,8301	0	87.166,45	132,369	2,94054	-9,10759	0	3,06445	1,29778

12	288,4 22	46,035	0	62.329, 64	146,3	3,6692	5,64819	0	3,2833 5	1,2361 8
12	293,9 43	64,9101	0	41.308, 73	162,079	4,7669 9	13,4005	0	3,5470 7	1,2078 4
12	300,5 68	89,2909	0	27.789, 80	178,854	6,0713 5	17,0669	0	3,8046 4	1,1957 3
12	304,6 04	104,924	0	22.687, 28	188,545	6,8499 5	18,2509	0	3,9393 4	1,1920 9
12	306,5 52	112,671	0	20.700, 76	193,142	7,2234 8	18,6775	0	4,0000 1	1,1908 2
12	306,5 52	112,671	0	20.700, 76	193,142	7,2234 7	18,6775	0	4,0000 2	1,1908 2
12	308,5 17	120,603	0	18.970, 99	197,587	7,6038	19,0403	0	4,0595 1	1,1897 6
12	318,0 57	160,662	0	13.033, 18	215,259	9,5677 4	20,5201	0	4,3365 3	1,1854 1
12	324,8 09	190,606	0	10.368, 22	223,106	11,155 9	21,9051	0	4,5322 1	1,181
13	297,4 72	- 32,8301	0	1,00	0,00177 245	0,1863 1	24,6396	0	2,5820 8	1,1739 6
13	297,5 72	- 32,5769	0	82.516, 12	6,12454	0,0181 339	-47,3513	0	2,5307 4	1,5232
13	297,6 72	- 32,3239	0	82.416, 56	8,66841	0,0361 965	-47,3443	0	2,5309 3	1,5232 1
13	297,7 72	- 32,0708	0	82.243, 61	10,6324	0,0542 216	-47,3243	0	2,5311 8	1,5231
13	297,8 72	- 31,8176	0	82.043, 18	12,2898	0,0722 408	-47,3009	0	2,5313	1,5231 4
13	297,9 72	- 31,5645	0	81.839, 20	13,7559	0,0902 202	-47,2774	0	2,5314 8	1,5231
13	298,0 72	- 31,3113	0	81.636, 14	15,0832	0,1082 03	-47,2541	0	2,5316 6	1,5230 6
13	298,1 72	- 31,0582	0	81.435, 99	16,3046	0,1262 06	-47,2312	0	2,5318 4	1,5230 3
13	298,2 72	-30,805	0	81.238, 36	17,4442	0,1442 06	-47,2087	0	2,5320 1	1,5229 9
13	298,3	-	0	81.041, 18,5199	18,5199	0,1621	-47,1863	0	2,5321	1,5229

	72	30,5518		63		61			9	6
13	298,4	-	0	80.843,	19,5437	0,1800	-47,1637	0	2,5323	1,5229
	72	30,2985		85		57			6	2
13	298,5	-	0	80.644,	20,52	0,1979	-47,1409	0	2,5325	1,5228
	72	30,0453		34		41			4	9
13	298,6	-29,792	0	80.443,	21,4553	0,2158	-47,1179	0	2,5327	1,5228
	72			85		09			2	5
13	298,7	-	0	80.243,	22,3547	0,2336	-47,095	0	2,5329	1,5228
	72	29,5388		11		57				2
13	298,8	-	0	80.043,	23,2223	0,2514	-47,0722	0	2,5330	1,5227
	72	29,2855		15		86			8	8
13	298,9	-	0	79.844,	24,0618	0,2692	-47,0495	0	2,5332	1,5227
	72	29,0321		40		93			5	5
13	299,0	-	0	79.646,	24,876	0,2870	-47,0271	0	2,5334	1,5227
	72	28,7788		98		85			3	1
13	299,1	-	0	79.449,	25,6687	0,3048	-47,0046	0	2,5336	1,5226
	72	28,5255		51		31				8
13	299,2	-	0	79.252,	26,4414	0,3225	-46,9822	0	2,5337	1,5226
	72	28,2721		43		46			7	4
13	299,3	-	0	79.055,	27,1952	0,3402	-46,9599	0	2,5339	1,5226
	72	28,0187		98		42			4	1
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	72	27,7653		08		19			1	7
13	299,5	-	0	78.626,	28,7925	0,3791	-46,9112	0	2,5343	1,5225
	92	27,4612		58		38			2	3
13	299,7	-	0	78.347,	29,7981	0,4045	-46,8795	0	2,5345	1,5224
	36	27,0962		21		61			6	9
13	299,9	-	0	78.013,	30,9683	0,4350	-46,8417	0	2,5348	1,5224
	09	26,6582		60		3			5	3
13	300,1	-	0	77.616,	32,3246	0,4715	-46,7967	0	2,5351	1,5223
	16	26,1326		52		72			9	6
13	300,3	-	0	77.143,	33,8934	0,5153	-46,743	0	2,5356	1,5222
	65	25,5017		32		45				8
13	300,6	-	0	76.637,	35,7031	0,5671	-46,7571	0	2,5360	1,5226
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	22	23,8357		08		09			3	3
13	301,4	-	0	75.954,	40,19	0,6936	-47,6632	0	2,5369	1,5292

	52	22,7449	06	98	6	1				
13	301,9 68	- 21,4358	0	75.971, 94	42,9487	0,7667 17	-48,8746	0	2,5373 6	1,5374 8
13	302,5 87	- 19,8646	0	76.236, 44	46,1137	0,8456 35	-50,6346	0	2,5378 1	1,5495 1
13	303,3 3	- 17,9787	0	76.652, 04	49,7284	0,9322 68	-52,6235	0	2,5384 2	1,5632 6
13	304,2 22	- 15,7151	0	77.127, 81	53,8371	1,0302 1	-54,2472	0	2,5392 4	1,5745 8
13	305,2 92	- 12,9977	0	77.533, 06	58,4985	1,1427 2	-55,2498	0	2,5403 7	1,5815 9
13	306,5 76	- 9,73503	0	77.698, 76	63,829	1,2733 5	-55,3831	0	2,5419	1,5824 6
13	308,1 16	- 5,81712	0	77.381, 13	70,3282	1,4219 2	-54,2341	0	2,5439 6	1,5743 3
13	309,9 65	-1,1073	0	76.214, 67	78,4237	1,5902 3	-51,2001	0	2,5557 3	1,5534 7
13	312,1 84	4,65145	0	73.600, 99	88,3408	1,7632 1	-45,4827	0	2,6369 2	1,5159 2
13	314,8 46	11,8062	0	68.911, 46	100,293	1,9993 2	-36,5459	0	2,7388 3	1,4611 5
13	318,0 41	20,7619	0	61.487, 72	114,423	2,3326 5	-24,1488	0	2,8688 8	1,3919 2
13	321,8 75	32,0863	0	50.052, 85	130,409	2,8302 6	-7,99471	0	3,0418 3	1,3109 5
13	322,1 19	32,8301	0	49.128, 13	131,365	2,8678 1	-6,79466	0	3,0541 7	1,3052 4
13	322,1 19	32,8301	0	49.128, 13	131,365	2,8678 1	-6,79466	0	3,0541 7	1,3052 4
13	326,4 75	46,6428	0	34.470, 80	146,191	3,6085 8	7,21192	0	3,2726 8	1,2418 4
13	331,9 96	65,4328	0	22.792, 09	162,691	4,6773 6	14,1871	0	3,5294 9	1,2125 8
13	332,0 31	65,5566	0	22.737, 16	162,79	4,6843	14,2141	0	3,531	1,2124 7
13	338,6 21	89,7152	0	15.213, 61	180,45	5,9703 3	17,5451	0	3,7871 3	1,1991 3
13	346,1	119,109	0	10.527,	199,463	7,3931	19,2765	0	4,0272	1,1924

	37			64		9			5	4
14	527,8 29	- 32,8301	0	1,00	0,00177 245	0,1863 06	24,6327	0	2,5820 8	1,1739 9
14	527,9 29	- 32,5722	0	6.346,1 3	6,17752	0,0170 771	-41,8731	0	2,5784	1,5312 4
14	528,0 29	- 32,3144	0	6.322,2 3	8,74881	0,0341 446	-41,8889	0	2,5784 1	1,5313 6
14	528,1 29	- 32,0565	0	6.305,2 8	10,7228	0,0512 375	-41,8906	0	2,5784 2	1,5313 8
14	528,2 29	- 31,7987	0	6.288,9 9	12,4008	0,0682 591	-41,8903	0	2,5784 4	1,5313 9
14	528,3 29	- 31,5409	0	6.273,0 2	13,8774	0,0852 962	-41,8894	0	2,5784 5	1,5313 9
14	528,4 29	-31,283	0	6.257,3 8	15,2182	0,1022 95	-41,8884	0	2,5784 6	1,5314
14	528,5 29	- 31,0252	0	6.242,0 7	16,4525	0,1193 04	-41,8873	0	2,5784 7	1,5314
14	528,6 29	- 30,7673	0	6.227,0 7	17,6026	0,1363 24	-41,8862	0	2,5784 8	1,5314
14	528,7 29	- 30,5095	0	6.212,3 4	18,6847	0,1533 54	-41,8851	0	2,5785	1,5314
14	528,8 29	- 30,2516	0	6.197,8 0	19,7105	0,1703 79	-41,884	0	2,5785 1	1,5314
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14	529,0 29	- 29,7359	0	6.168,9 0	21,6333	0,2043 03	-41,8818	0	2,5785 3	1,5314
14	529,1 29	- 29,4781	0	6.154,3 7	22,5394	0,2212 33	-41,8806	0	2,5785 4	1,5314 1
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14	529,3 29	- 28,9623	0	6.125,2 0	24,2587	0,2550 64	-41,8783	0	2,5785 6	1,5314 1
14	529,4 29	- 28,7045	0	6.110,6 0	25,0785	0,2719 6	-41,8772	0	2,5785 7	1,5314 1
14	529,5 29	- 28,4466	0	6.096,0 0	25,8749	0,2888 38	-41,876	0	2,5785 9	1,5314 1

14	529,6 29	- 28,1888	0	6.081,4 3	26,6501	0,3057 07	-41,8749	0	2,5786	1,5314 1
14	529,7 29	- 27,9309	0	6.066,8 9	27,4056	0,3225 7	-41,8737	0	2,5786	1,5314 1
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14	531,0 2	- 24,6003	0	5.880,6 8	35,953	0,5388 94	-41,876	0	2,5787	1,5315 3
14	531,3 79	- 23,6763	0	5.843,4 0	38,042	0,5966 38	-42,1083	0	2,5787	1,5331 9
14	531,8 09	- 22,5675	0	5.823,3 2	40,4428	0,6611 44	-42,8035	0	2,5788	1,5377 4
14	532,3 25	- 21,2368	0	5.825,9 1	43,1999	0,7314 59	-44,0853	0	2,5788	1,5463 6
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14	533,6 87	- 17,7239	0	5.889,8 7	49,9582	0,8898 38	-48,1866	0	2,5789	1,5745 5
14	534,5 78	- 15,4245	0	5.940,2 1	54,0525	0,9821 84	-50,1211	0	2,5789	1,5881 8
14	535,6 48	- 12,6652	0	5.989,3 5	58,6918	1,0880 2	-51,4325	0	2,5790	1,5975 6
14	536,9 32	- 9,35386	0	6.023,4 3	63,9743	1,2112 1	-51,853	0	2,5791	1,6005 7
14	538,4 73	- 5,38008	0	6.018,1 5	70,4083	1,3521	-50,9059	0	2,5792	1,5937 5
14	540,3 22	- 0,61122	0	5.938,5 9	78,4335	1,5188 5	-47,9199	0	2,5794	1,5726 5

		5								
14	542,5 4	5,16088	0	5.746,2 5	88,3184	1,6951	-42,2979	0	2,6367 8	1,5344 2
14	545,2 03	12,3104	0	5.379,7 0	100,246	1,9232 9	-33,3506	0	2,7345 4	1,4772 1
14	548,3 97	21,245	0	4.790,9 4	114,411	2,2473 1	-21,117	0	2,8599 9	1,4052 6
14	552,2 31	32,5192	0	3.877,4 0	130,586	2,7317 6	-5,68099	0	3,0254 5	1,3223 2
14	552,3 34	32,8301	0	3.847,8 6	130,996	2,7469 2	-5,24083	0	3,0302 8	1,3200 5
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14	552,3 34	32,8304	0	3.847,8 3	130,997	2,7469 6	-5,24029	0	3,0302 5	1,3200 4
14	556,8 32	46,9887	0	2.655,9 4	146,607	3,4845	8,35057	0	3,2451 1	1,2513 7
14	560,6 52	59,7213	0	1.979,6 3	158,849	4,1797 9	13,3847	0	3,4192 9	1,2263 5
14	562,3 52	65,5989	0	1.752,8 6	163,986	4,5030 8	14,7868	0	3,4932 4	1,2193 6
14	568,9 77	89,6291	0	1.154,6 0	182,858	5,7832 7	17,9495	0	3,7534 1	1,2035 4
14	576,5 86	119,154	0	786,97	203,28	7,2157 6	19,571	0	3,9995 9	1,1953 8

