

Dispersion Report

Workspace: 72438-2FSRURegas-6H

Study: FSRU in rigassificazione

Equipment Item: 6H Vaporizz GN/SW HA1100A

72438-2FSRURegas-6H\FSRU in rigassificazione\6H Vaporizz GN/SW HA1100A

Material	NG/SW	
East	0	m
North	0	m

Scenario (Leak) : 280mm

72438-2FSRURegas-6H\FSRU in rigassificazione\6H Vaporizz GN/SW HA1100A\280mm

Material to track	METHANE
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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	Continuous	0	0	kg/s	6497,2	3887,25		2609,95

2	Continuou s	3,0968 2	0	kg/s	6497,2	3887,16		2610,24
3	Continuou s	3,0978 2	0	kg/s	0	0	0,19903 6	0,19903 6
4	Continuou s	6,6585 3	187,829	kg/s	0	0		3,09363
5	Continuou s	140,13 6	166,458	kg/s	0	0		8,80784
6	Continuou s	257,64 9	166,458	kg/s	0	0		6,61505
7	Continuou s	419,60 4	166,458	kg/s	0	0		4,97388
8	Continuou s	641,42	166,458	kg/s	0	0		3,79272
9	Continuou s	933,75 1	166,458	kg/s	0	0		2,92432
10	Continuou s	1318,6 3	166,458	kg/s	0	0		2,24582
11	Continuou s	1829,8 1	166,458	kg/s	0	0		1,6923
12	Continuou s	2523,6 2	166,458	kg/s	0	0		1,23515
13	Continuou s	3498,1 6	166,458	kg/s	0	0		0,83856 4

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

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

Obse rver num ber	Time [s]	Down wind distan ce [m]	C/Li ne heigh t [m]	C/Li ne conc [pp m]	Effect ive width [m]	Effect ive depth [m]	C/Line vapour temper ature [degC]	C/Li ne liqui d fracti on	C/Line liquid temper ature [degC]	Cent roid velo city [m/ s]	C/Li ne clou d dens ity [kg/ m3]
1	0	0	5	10.61	1,9910	0,8911	-	0,90	-	177,5	10,30

				0,97	3	69	52,0196	1516	52,0196	97	92
1	0,01	1,7602 3	4,99 957	10.49 1,73	2,1806 8	0,9760 52	-56,991	0,89 2458	-56,991	174,4 58	8,907 23
1	0,011 2224	1,9732 5	4,99 946	10.47 6,93	2,2021 9	0,9856 87	- 57,5162	0,89 1485	- 57,5162	174,0 72	8,772 99
1	0,011 2224	1,9732 5	4,99 946	10.47 6,93	2,2021 9	0,9856 87	- 57,5165	0,89 1485	- 57,5162	174,0 72	8,773
1	0,02	3,4888 2	4,99 831	10.36 7,91	2,4200 2	1,0833 7	- 52,1738	0,88 3047	- 62,7346	171,2 43	7,506 42
1	0,03	5,1848 7	4,99 625	10.24 0,05	2,6222	1,1742 5	- 50,6552	0,87 5698	- 67,0528	167,9 68	6,644 13
1	0,04	6,8482 8	4,99 343	10.11 1,05	2,7986 3	1,2537 5	- 50,9942	0,86 9824	- 70,3181	164,7 11	6,064 35
1	0,05	8,4794 7	4,98 989	9.982 ,46	2,9607 3	1,3269 6	-52,055	0,86 4812	- 72,9678	161,5 09	5,633 84
1	0,06	10,079	4,98 565	9.855 ,06	3,1134 9	1,3961 2	- 53,4033	0,86 0388	- 75,1974	158,3 81	5,296 01
1	0,07	11,647 8	4,98 073	9.729 ,50	3,2601 9	1,4626 9	-54,797	0,85 6354	- 77,1528	155,3 39	5,019 26
1	0,08	13,186 5	4,97 516	9.606 ,09	3,4029 2	1,5276 2	- 56,0852	0,85 2616	-78,91	152,3 89	4,785 13
1	0,09	14,696 1	4,96 896	9.485 ,07	3,5433 5	1,5916 7	- 57,1637	0,84 9101	- 80,5301	149,5 33	4,581 41
1	0,1	16,177 5	4,96 216	9.366 ,65	3,6855	1,6567 1	- 57,6168	0,84 58	- 82,0721	146,7 73	4,393 15
1	0,11	17,631 9	4,95 476	9.251 ,09	3,8100 9	1,7137 2	- 59,5824	0,84 2766	- 83,2455	144,1 13	4,261 91
1	0,12	19,060 3	4,94 68	9.138 ,55	3,9329 6	1,7700 5	-61,301	0,83 9896	- 84,3206	141,5 53	4,144
1	0,13	20,463 7	4,93 828	9.028 ,96	4,0557 8	1,8264 9	- 62,6786	0,83 7131	- 85,3564	139,0 88	4,034 28
1	0,14	21,843 4	4,92 924	8.922 ,29	4,1779 8	1,8827 7	- 63,8267	0,83 4456	- 86,3535	136,7 16	3,932 98
1	0,15	23,199 9	4,91 966	8.818 ,44	4,2993 1	1,9387 7	-64,803	0,83 1871	- 87,3073	134,4 31	3,839 64
1	0,16	24,533 9	4,90 957	8.717 ,34	4,4194 7	1,9943 5	- 65,6632	0,82 9374	- 88,2128	132,2 29	3,753 99
1	0,17	25,847	4,89	8.618	4,5381	2,0493	-	0,82	-	130,1	3,675

		4	898	,95	1	3	66,4567	6953	89,0738	08	69
1	0,18	27,141	4,88	8.523	4,6552	2,1036	-	0,82	-	128,0	3,604
			792	,21		9	67,2039	4602	89,8906	64	08
1	0,19	28,414	4,87	8.430	4,7709	2,1575	-	0,82	-	126,0	3,538
		3	637	,00	9	4	67,8967	2326	90,6629	93	18
1	0,2	29,667	4,86	8.339	4,8855	2,2109	-	0,82	-	124,1	3,477
		6	435	,22	7	2	68,5413	012	91,3928	91	34
1	0,212	31,148	4,84	8.233	5,0214	2,2743	-	0,81	-	121,9	3,410
		5	932	,47		1	69,2756	7538	92,2297	97	42
1	0,226	32,889	4,83	8.110	5,1824	2,3496	-	0,81	-	119,4	3,337
	4	7	04	,88	1		70,0877	4557	93,1633	82	61
1	0,243	34,933	4,80	7.969	5,3725	2,4387	-	0,81	-	116,6	3,259
	68	6	65	,90	6		71,0003	1121	94,1978	26	91
1	0,264	37,322	4,77	7.809	5,5967	2,5440	-	0,80	-	113,4	3,178
	416	2	612	,04	8	1	72,0196	7193	95,3203	16	4
1	0,289	40,105	4,73	7.627	5,8609	2,6683	-	0,80	-	109,8	3,094
	299	4	73	,23		3	73,1654	268	96,5484	47	37
1	0,319	43,331	4,68	7.423	6,1720	2,8151	-	0,79	-	105,9	3,009
	159	7	739	,83	8	3	74,4408	7529	97,8711	29	31
1	0,354	47,053	4,62	7.198	6,5390	2,9886	-	0,79	-99,28	101,6	2,924
	991	1	286	,94	9	3	75,8494	167		84	82
1	0,397	51,324	4,53	6.953	6,9730	3,1941	-	0,78	-	97,15	2,842
	989	3	894	,50	6	4	77,3856	5039	100,761	45	46
1	0,449	56,206	4,42	6.689	7,4877	3,4381	-79,043	0,77	-	92,39	2,763
	587	4	928	,49	1	7		7615	102,269	81	9
1	0,511	61,769	4,28	6.409	8,1005	3,7289	-	0,76	-	87,48	2,690
	504	2	527	,78	4	1	80,8172	9413	103,722	68	72
1	0,527	63,117	4,24	6.345	8,2530	3,8012	-	0,76	-	86,35	2,675
	022	3	737	,56	9	1	81,2799	743	104,047	59	85
1	0,527	63,117	4,24	6.345	8,2530	3,8012	-	0,76	-	86,35	2,675
	022	3	737	,56	9	1	81,2799	743	104,047	59	85
1	0,585	68,069	4,10	6.123	9,0844	3,9022	-	0,75	-	82,25	2,639
	805	4	976	,07	4	3	83,7583	9995	105,028	9	12
1	0,674	75,151	3,93	5.834	10,349	4,0345	-	0,74	-	76,80	2,601
	966	9	896	,18	8	2	87,1983	9612	106,142	74	03
1	0,781	83,065	3,78	5.545	11,867	4,1964	-	0,73	-	71,30	2,557
	959	2	73	,23	7	5	89,7634	8631	107,331	78	54
1	0,910	91,857	3,65	5.257	13,691	4,3830	-91,722	0,72	-	65,84	2,511



	351	3	057	,78	5	2		6941	108,567	72	98
1	1,064	101,57	3,51	4.973	15,887	4,5861	-	0,71	-	60,49	2,469
	42	3	585	,73	3	4	93,4857	433	109,776	96	65
1	1,249	112,26	3,36	4.694	18,534	4,8060	-	0,70	-	55,32	2,433
	31		613	,92	5	7	95,2963	0591	110,908	82	46
1	1,471	123,96	3,18	4.423	21,726	5,0519	-	0,68	-	50,38	2,403
	17	2	627	,48	9	9	97,1743	5624	111,952	38	38
1	1,737	136,72	2,96	4.161	25,576	5,3372	-	0,66	-	45,70	2,378
	4	7	145	,50	6	1	99,0793	9379	112,912	84	65
1	2,056	150,59	2,67	3.911	30,218	5,6769	-	0,65	-	41,33	2,358
	88	6	466	,07	2	9	100,976	1852	113,787	86	59
1	2,440	165,61	2,30	3.674	35,811	6,0898	-	0,63	-	37,30	2,342
	26	2	415	,13	7	4	102,839	308	114,578	46	68
1	2,900	181,86	1,82	3.451	42,545	6,6019	-	0,61	-115,29	33,62	2,330
	31	2	106	,83	4	1	104,649	3112		44	36
1	3,281	194,17	1,39	3.303	48,130	7,0404	-	0,59	-	31,23	2,323
	28	9	009	,71	3	5	105,896	8296	115,744	85	62
1	3,281	194,17	1,39	1.630	48,130	7,0102	-	0		31,34	2,017
	28	9	009	,92	3	3	105,896			16	22
1	3,452	199,44	1,19	1.594	50,258	7,5052	-	0		30,27	1,975
	37	5	807	,90	4	8	102,231			77	2
1	4,114	218,36	0,48	1.481	58,625	9,1171	-	0		27,08	1,853
	84	9	6352	,18	9	2	90,6266			38	99
1	4,542	229,59	0,01	1.422	64,074	10,017	-	0		25,53	1,797
	34	7		,67	5		84,6493			91	75
1	4,542	229,59	0	1.422	64,074	10,035	-	0		25,51	1,797
	34	7		,67	5	7	84,6502			67	76
1	4,909	238,68	0	1.379	68,765	10,348	-	0		24,35	1,758
	81	2		,48	8	9	80,2041			21	21
1	5,863	260,55	0	1.283	80,901	11,080	-	0		21,87	1,676
	77	7		,16	7	6	70,2641			6	36
1	7,008	284,30	0	1.189	95,351	11,847	-60,616	0		19,62	1,604
	53	1		,87	5	6				59	53
1	8,382	309,89	0	1.100	112,44	12,639	-51,383	0		17,60	1,541
	23	8		,59	8	6				83	84
1	10,03	337,44	0	1.015	132,54	13,455	-	0		15,81	1,487
	07	7		,74	4	1	42,6514			22	31
1	12,00	367,12	0	935,5	156,00	14,296	-	0		14,21	1,440

	88			4	6	4	34,5088			88	15
1	14,38 26	399,20 3	0	860,0 4	183,24 9	15,167 6	- 27,0519	0		12,80 52	1,399 74
1	17,23 11	433,95 3	0	789,2 7	214,74 2	16,061 3	- 20,3909	0		11,55 45	1,365 68
1	20,64 93	471,59 1	0	723,3 2	251,04 3	16,961	- 14,5958	0		10,45 31	1,337 47
1	24,75 12	512,41 4	0	662,0 7	292,53 1	17,853 4	-9,6592	0		9,485 44	1,314 39
1	29,67 34	556,92 8	0	605,3 3	339,48 1	18,735	- 5,50078	0		8,632 9	1,295 59
1	35,58 01	605,81 6	0	552,6 9	392,75 7	19,608 2	- 2,00768	0		7,877 09	1,280 21
1	42,66 81	659,53 5	0	504,0 9	453,26 9	20,439 5	0,78005 7	0		7,208 92	1,268 26
1	51,17 37	718,76 1	0	460,6 5	521,98 8	21,248 3	3,38359	0		6,620 51	1,257 26
1	61,38 05	784,43 5	0	419,3 7	600,09 4	22,025 3	5,63254	0		6,099 63	1,247 89
1	73,62 86	857,32 6	0	381,2 0	688,78	22,752 1	7,57936	0		5,640 28	1,239 87
1	88,32 63	938,45 3	0	345,4 2	789,50 1	23,417 9	9,27185	0		5,235 2	1,232 95
1	105,9 64	1029,1 9	0	314,6 7	904,08	24,018 2	10,7519	0		4,877 12	1,226 95
1	127,1 28	1131,1 7	0	294,1 7	1034,6 9	24,547 2	12,053	0		4,559 8	1,221 7
1	152,5 26	1246,3 7	0	274,1 7	1183,9	25	13,2023	0		4,277 58	1,217 07
1	174,3 98	1340,4 9	0	258,3 9	1306,6	25,277	13,9634	0		4,09	1,214 01
1	183,0 03	1376,2 2	0	252,0 2	1353,2 4	25,361 5	14,2204	0		4,026 6	1,212 98
1	219,5 76	1523,7 4	0	228,0 5	1547,6 1	25,610 6	15,1222	0		3,803 74	1,209 34
1	263,4 63	1692,8 2	0	206,6 9	1771,4 8	25,772 9	15,9361	0		3,602 46	1,206 04
1	316,1	1886,1	0	187,7	2028,3	25,82	16,6696	0		3,420	1,203

	27	5		1	6					9	05
1	379,3 25	2107,1	0	170,9 0	2322,5 4	25,733 6	17,3347	0		3,256 67	1,200 31
1	455,1 62	2359,8 2	0	156,2 0	2659,0 6	25,506 6	17,9452	0		3,106 8	1,197 75
1	546,1 66	2649,1	0	143,1 8	3043,3 5	25,133 7	18,5149	0		2,968 83	1,195 31
1	655,3 72	2980,8 8	0	131,6 4	3481,5 4	24,618 5	19,0584	0		2,840 36	1,192 92
1	786,4 18	3361,1 2	0	121,0 4	3978,6 1	24,057 7	19,6024	0		2,725 72	1,190 48
1	930,7 38	3763,0 6	0	107,6 9	4494,5 2	23,891 7	20,2689	0		2,654 58	1,187 65
1	943,6 73	3798,2 4	0	106,7 7	4538,5 2	23,909 9	20,4174	0		2,651 34	1,187 09
1	954,9 1	3828,7 2	0	105,9 6	4576,3 4	23,932 6	20,5438	0		2,649 07	1,186 61
1	954,9 1	3828,7 2	0	105,9 6	4576,3 4	23,932 6	20,5438	0		2,649 07	1,186 61
1	974,9 57	3881,9 2	0	104,4 6	4579,9 5	24,187 8	20,762	0		2,658 77	1,185 8
2	3,096 82	0	5	10.61 0,97	1,9910 3	0,8911 69	- 52,0196	0,90 1516	- 52,0196	177,5 97	10,30 92
2	3,106 82	1,7602 3	4,99 957	10.49 1,73	2,1806 8	0,9760 52	-56,991	0,89 2458	-56,991	174,4 58	8,907 23
2	3,108 04	1,9732 5	4,99 946	10.47 6,93	2,2021 9	0,9856 87	- 57,5162	0,89 1485	- 57,5162	174,0 72	8,772 99
2	3,108 04	1,9732 5	4,99 946	10.47 6,93	2,2021 9	0,9856 87	- 57,5165	0,89 1485	- 57,5162	174,0 72	8,773
2	3,116 82	3,4888 2	4,99 831	10.36 7,91	2,4200 2	1,0833 7	- 52,1737	0,88 3047	- 62,7346	171,2 43	7,506 42
2	3,126 82	5,1848 7	4,99 625	10.24 0,05	2,6222	1,1742 5	- 50,6552	0,87 5698	- 67,0528	167,9 68	6,644 13
2	3,136 82	6,8482 8	4,99 343	10.11 1,05	2,7986 3	1,2537 5	- 50,9942	0,86 9824	- 70,3181	164,7 11	6,064 35
2	3,146 82	8,4794 7	4,98 989	9.982 ,46	2,9607 3	1,3269 6	-52,055	0,86 4812	- 72,9678	161,5 09	5,633 84



2	3,156 82	10,079	4,98 565	9.855 ,06	3,1134 9	1,3961 2	- 53,4033	0,86 0388	- 75,1974	158,3 81	5,296 01
2	3,166 82	11,647 8	4,98 073	9.729 ,50	3,2601 9	1,4626 9	-54,797	0,85 6354	- 77,1528	155,3 39	5,019 26
2	3,176 82	13,186 5	4,97 516	9.606 ,09	3,4029 2	1,5276 2	- 56,0852	0,85 2616	-78,91	152,3 89	4,785 13
2	3,186 82	14,696 1	4,96 896	9.485 ,07	3,5433 5	1,5916 7	- 57,1637	0,84 9101	- 80,5301	149,5 33	4,581 41
2	3,196 82	16,177 5	4,96 216	9.366 ,65	3,6855	1,6567 1	- 57,6168	0,84 58	- 82,0721	146,7 73	4,393 15
2	3,206 82	17,631 9	4,95 476	9.251 ,09	3,8100 9	1,7137 2	- 59,5824	0,84 2766	- 83,2455	144,1 13	4,261 91
2	3,216 82	19,060 3	4,94 68	9.138 ,55	3,9329 6	1,7700 5	-61,301	0,83 9896	- 84,3206	141,5 53	4,144
2	3,226 82	20,463 7	4,93 828	9.028 ,96	4,0557 8	1,8264 9	- 62,6786	0,83 7131	- 85,3564	139,0 88	4,034 28
2	3,236 82	21,843 4	4,92 924	8.922 ,29	4,1779 8	1,8827 7	- 63,8267	0,83 4456	- 86,3535	136,7 16	3,932 98
2	3,246 82	23,199 9	4,91 966	8.818 ,44	4,2993 1	1,9387 7	-64,803	0,83 1871	- 87,3073	134,4 31	3,839 64
2	3,256 82	24,533 9	4,90 957	8.717 ,34	4,4194 7	1,9943 5	- 65,6632	0,82 9374	- 88,2128	132,2 29	3,753 99
2	3,266 82	25,847 4	4,89 898	8.618 ,95	4,5381 1	2,0493 3	- 66,4567	0,82 6953	- 89,0738	130,1 08	3,675 69
2	3,276 82	27,141	4,88 792	8.523 ,21	4,6552	2,1036 9	- 67,2039	0,82 4602	- 89,8906	128,0 64	3,604 08
2	3,286 82	28,414 3	4,87 637	8.430 ,00	4,7709 9	2,1575 4	- 67,8967	0,82 2326	- 90,6629	126,0 93	3,538 18
2	3,296 82	29,667 6	4,86 435	8.339 ,22	4,8855 7	2,2109 2	- 68,5413	0,82 012	- 91,3928	124,1 91	3,477 34
2	3,308 82	31,148 5	4,84 932	8.233 ,47	5,0214	2,2743 1	- 69,2756	0,81 7538	- 92,2297	121,9 97	3,410 42
2	3,323 22	32,889 7	4,83 04	8.110 ,88	5,1824 1	2,3496	- 70,0877	0,81 4557	- 93,1633	119,4 82	3,337 61
2	3,340 5	34,933 6	4,80 65	7.969 ,90	5,3725 6	2,4387	- 71,0003	0,81 1121	- 94,1978	116,6 26	3,259 91
2	3,361 23	37,322 2	4,77 612	7.809 ,04	5,5967 8	2,5440 1	- 72,0196	0,80 7193	- 95,3203	113,4 16	3,178 4



2	3,386 12	40,105 4	4,73 73	7.627 ,23	5,8609	2,6683 3	- 73,1654	0,80 268	- 96,5484	109,8 47	3,094 37
2	3,415 97	43,331 7	4,68 739	7.423 ,83	6,1720 8	2,8151 3	- 74,4408	0,79 7529	- 97,8711	105,9 29	3,009 31
2	3,451 81	47,053 1	4,62 286	7.198 ,94	6,5390 9	2,9886 3	- 75,8494	0,79 167	-99,28	101,6 84	2,924 82
2	3,494 8	51,324 3	4,53 894	6.953 ,50	6,9730 6	3,1941 4	- 77,3856	0,78 5039	- 100,761	97,15 45	2,842 46
2	3,546 4	56,206 4	4,42 928	6.689 ,49	7,4877 1	3,4381 7	-79,043	0,77 7615	- 102,269	92,39 81	2,763 9
2	3,608 32	61,769 2	4,28 527	6.409 ,78	8,1005 4	3,7289 1	- 80,8172	0,76 9413	- 103,722	87,48 68	2,690 72
2	3,623 84	63,117 3	4,24 737	6.345 ,56	8,2530 9	3,8012 1	- 81,2799	0,76 743	- 104,047	86,35 59	2,675 85
2	3,623 84	63,117 3	4,24 737	6.345 ,56	8,2530 9	3,8012 1	- 81,2799	0,76 743	- 104,047	86,35 59	2,675 85
2	3,682 62	68,069 4	4,10 976	6.123 ,07	9,0844 4	3,9022 3	- 83,7583	0,75 9995	- 105,028	82,25 9	2,639 12
2	3,771 78	75,151 9	3,93 896	5.834 ,18	10,349 8	4,0345 2	- 87,1983	0,74 9612	- 106,142	76,80 74	2,601 03
2	3,878 78	83,065 2	3,78 73	5.545 ,23	11,867 7	4,1964 5	- 89,7634	0,73 8631	- 107,331	71,30 78	2,557 54
2	4,007 17	91,857 3	3,65 057	5.257 ,78	13,691 5	4,3830 2	-91,722	0,72 6941	- 108,567	65,84 72	2,511 98
2	4,161 24	101,57 3	3,51 585	4.973 ,73	15,887 3	4,5861 4	- 93,4857	0,71 433	- 109,776	60,49 96	2,469 65
2	4,346 12	112,26	3,36 613	4.694 ,92	18,534 5	4,8060 7	- 95,2963	0,70 0591	- 110,908	55,32 82	2,433 46
2	4,567 98	123,96 2	3,18 627	4.423 ,48	21,726 9	5,0519 9	- 97,1743	0,68 5624	- 111,952	50,38 38	2,403 38
2	4,834 22	136,72 7	2,96 145	4.161 ,50	25,576 6	5,3372 1	- 99,0793	0,66 9379	- 112,912	45,70 84	2,378 65
2	5,153 7	150,59 6	2,67 466	3.911 ,07	30,218 2	5,6769 9	- 100,976	0,65 1852	- 113,787	41,33 86	2,358 59
2	5,537 07	165,61 2	2,30 415	3.674 ,13	35,811 7	6,0898 4	- 102,839	0,63 308	- 114,578	37,30 46	2,342 68
2	5,997 12	181,86 2	1,82 106	3.451 ,83	42,545 4	6,6019 1	- 104,649	0,61 3112	-115,29	33,62 44	2,330 36



2	6,197 98	188,47 8	1,59 727	3.370 ,26	45,489 3	6,8320 8	- 105,332	0,60 5118	- 115,541	32,30 35	2,326 51
2	6,197 98	188,47 8	1,59 727	3.370 ,26	45,489 3	6,8320 8	- 105,332	0,60 5118	- 115,541	32,30 35	2,326 51
2	6,378 08	194,19 5	1,39 008	3.303 ,60	48,130 3	7,0412 8	- 105,901	0,59 8274	- 115,743	31,23 64	2,323 67
2	6,378 08	194,19 5	1,39 008	1.630 ,93	48,130 3	7,0110 6	- 105,901	0		31,33 96	2,017 29
2	6,549 18	199,46 1	1,19 813	1.594 ,97	50,259	7,5056 6	- 102,241	0		30,27 59	1,975 31
2	6,581 11	200,42 4	1,16 348	1.588 ,63	50,658 4	7,5928 6	- 101,595	0		30,09 1	1,968 1
2	6,581 11	200,42 4	1,16 348	1.588 ,63	50,658 4	7,5928 6	- 101,595	0		30,09 1	1,968 1
2	7,211 66	218,38 2	0,48 6337	1.481 ,29	58,627 6	9,1164 9	- 90,6401	0		27,08 38	1,854 13
2	7,638 72	229,59 8	0,01	1.422 ,85	64,070 7	10,015 3	- 84,6702	0		25,54 17	1,797 94
2	7,638 72	229,59 8	0	1.422 ,85	64,070 7	10,034 2	- 84,6711	0		25,51 87	1,797 95
2	8,006 63	238,69 4	0	1.379 ,62	68,767 7	10,347 8	- 80,2189	0		24,35 24	1,758 34
2	8,960 59	260,56 9	0	1.283 ,29	80,903 7	11,079 7	- 70,2779	0		21,87 63	1,676 47
2	10,10 53	284,31 3	0	1.190 ,00	95,353 8	11,846 8	- 60,6287	0		19,62 6	1,604 62
2	11,47 9	309,91	0	1.100 ,71	112,45	12,638 9	- 51,3947	0		17,60 84	1,541 92
2	13,12 75	337,45 9	0	1.015 ,85	132,54 7	13,454 4	- 42,6621	0		15,81 22	1,487 38
2	15,10 56	367,13 2	0	935,6 5	156,01 1	14,295 7	- 34,5184	0		14,21 88	1,440 2
2	17,47 94	399,21 6	0	860,1 4	183,25 5	15,167	- 27,0604	0		12,80 51	1,399 78
2	20,32 79	433,96 5	0	789,3 7	214,75	16,060 6	- 20,3983	0		11,55 45	1,365 71
2	23,74 61	471,60 2	0	723,4 0	251,05 3	16,960 4	- 14,6021	0		10,45 3	1,337 5



2	27,84 8	512,42 3	0	662,1 5	292,54 2	17,852 7	- 9,66451	0		9,485 41	1,314 42
2	32,77 02	556,93 8	0	605,4 0	339,49 5	18,734 4	- 5,50504	0		8,632 8	1,295 61
2	38,67 69	605,82 6	0	552,7 6	392,77 3	19,607 7	- 2,01119	0		7,877	1,280 22
2	45,76 49	659,54 4	0	504,1 5	453,27 3	20,439 4	0,77699 3	0		7,209 03	1,268 28
2	54,27 06	718,83 6	0	460,7 8	522,03 9	21,251 6	3,38277	0		6,619 74	1,257 26
2	64,47 73	784,51	0	419,5 1	600,14 7	22,027 6	5,63129	0		6,099 06	1,247 89
2	76,72 54	857,38 4	0	381,3 2	688,82 6	22,752 8	7,57758	0		5,639 94	1,239 87
2	91,42 31	938,45 1	0	345,4 7	789,5	23,416 1	9,26938	0		5,235 27	1,232 97
2	109,0 6	1029,2 3	0	314,7 5	904,11 7	24,019 3	10,7504	0		4,876 74	1,226 96
2	130,2 25	1131,6 4	0	294,7 3	1035,1 2	24,560 9	12,055	0		4,557 68	1,221 69
2	155,6 23	1247,1 7	0	275,0 2	1184,6 6	25,017 2	13,2046	0		4,274 62	1,217 06
2	177,4 45	1341,1 7	0	258,9 1	1307,2	25,290 4	13,963	0		4,087 44	1,214 01
2	186,1	1377,0 9	0	252,5 1	1354,0 9	25,373 3	14,2208	0		4,023 75	1,212 98
2	222,6 73	1524,5 1	0	228,7 7	1548,3 8	25,614 3	15,1208	0		3,801 41	1,209 34
2	266,5 6	1693,5	0	207,3 6	1772,1 8	25,770 8	15,9337	0		3,600 47	1,206 05
2	319,2 24	1886,7 3	0	188,3 0	2028,9 8	25,813 7	16,6667	0		3,419 14	1,203 06
2	382,4 22	2107,5 9	0	171,4 0	2323,0 8	25,724 3	17,3318	0		3,255 07	1,200 32
2	458,2 59	2360,2 1	0	156,6 1	2659,5 2	25,495 4	17,9425	0		3,105 31	1,197 76
2	549,2 63	2649,3 7	0	143,4 8	3043,7	25,121	18,5124	0		2,967 43	1,195 32

2	658,4 68	2981	0	131,8 5	3481,7 6	24,605	19,0564	0		2,839 01	1,192 93
2	789,5 15	3361,0 9	0	121,2 2	3978,6 8	24,024 5	19,6002	0		2,725 87	1,190 49
2	934,6 95	3765,1 3	0	108,4 1	4497,1 2	23,873 1	20,2704	0		2,651 93	1,187 64
3	3,097 82	0	5	0,81	1,9910 3	0,8911 69	- 52,0196	0,90 1516	- 52,0196	177,5 97	10,30 92
3	3,107 82	1,7602 3	4,99 957	0,80	2,1806 8	0,9760 52	-56,991	0,89 2458	-56,991	174,4 58	8,907 23
3	3,109 04	1,9732 5	4,99 946	0,80	2,2021 9	0,9856 87	- 57,5162	0,89 1485	- 57,5162	174,0 72	8,772 99
3	3,109 04	1,9732 5	4,99 946	0,80	2,2021 9	0,9856 87	- 57,5165	0,89 1485	- 57,5162	174,0 72	8,773
3	3,117 82	3,4888 2	4,99 831	0,79	2,4200 2	1,0833 7	- 52,1737	0,88 3047	- 62,7346	171,2 43	7,506 42
3	3,127 82	5,1848 7	4,99 625	0,78	2,6222	1,1742 5	- 50,6552	0,87 5698	- 67,0528	167,9 68	6,644 13
3	3,137 82	6,8482 8	4,99 343	0,77	2,7986 3	1,2537 5	- 50,9942	0,86 9824	- 70,3181	164,7 11	6,064 35
3	3,147 82	8,4794 7	4,98 989	0,76	2,9607 3	1,3269 6	-52,055	0,86 4812	- 72,9678	161,5 09	5,633 84
3	3,157 82	10,079	4,98 565	0,75	3,1134 9	1,3961 2	- 53,4033	0,86 0388	- 75,1974	158,3 81	5,296 01
3	3,167 82	11,647 8	4,98 073	0,74	3,2601 9	1,4626 9	-54,797	0,85 6354	- 77,1528	155,3 39	5,019 26
3	3,177 82	13,186 5	4,97 516	0,73	3,4029 2	1,5276 2	- 56,0852	0,85 2616	-78,91	152,3 89	4,785 13
3	3,187 82	14,696 1	4,96 896	0,72	3,5433 5	1,5916 7	- 57,1637	0,84 9101	- 80,5301	149,5 33	4,581 41
3	3,197 82	16,177 5	4,96 216	0,71	3,6855	1,6567 1	- 57,6168	0,84 58	- 82,0721	146,7 73	4,393 15
3	3,207 82	17,631 9	4,95 476	0,71	3,8100 9	1,7137 2	- 59,5824	0,84 2766	- 83,2455	144,1 13	4,261 91
3	3,217 82	19,060 3	4,94 68	0,70	3,9329 6	1,7700 5	-61,301	0,83 9896	- 84,3206	141,5 53	4,144
3	3,227	20,463	4,93	0,69	4,0557	1,8264	-	0,83	-	139,0	4,034

	82	7	828		8	9	62,6786	7131	85,3564	88	28
3	3,237	21,843	4,92	0,68	4,1779	1,8827	-	0,83	-	136,7	3,932
	82	4	924		8	7	63,8267	4456	86,3535	16	98
3	3,247	23,199	4,91	0,67	4,2993	1,9387	-64,803	0,83	-	134,4	3,839
	82	9	966		1	7		1871	87,3073	31	64
3	3,257	24,533	4,90	0,66	4,4194	1,9943	-	0,82	-	132,2	3,753
	82	9	957		7	5	65,6632	9374	88,2128	29	99
3	3,267	25,847	4,89	0,66	4,5381	2,0493	-	0,82	-	130,1	3,675
	82	4	898		1	3	66,4567	6953	89,0738	08	69
3	3,277	27,141	4,88	0,65	4,6552	2,1036	-	0,82	-	128,0	3,604
	82		792			9	67,2039	4602	89,8906	64	08
3	3,287	28,414	4,87	0,64	4,7709	2,1575	-	0,82	-	126,0	3,538
	82	3	637		9	4	67,8967	2326	90,6629	93	18
3	3,297	29,667	4,86	0,64	4,8855	2,2109	-	0,82	-	124,1	3,477
	82	6	435		7	2	68,5413	012	91,3928	91	34
3	3,309	31,148	4,84	0,63	5,0214	2,2743	-	0,81	-	121,9	3,410
	82	5	932			1	69,2756	7538	92,2297	97	42
3	3,324	32,889	4,83	0,62	5,1824	2,3496	-	0,81	-	119,4	3,337
	22	7	04		1		70,0877	4557	93,1633	82	61
3	3,341	34,933	4,80	0,61	5,3725	2,4387	-	0,81	-	116,6	3,259
	5	6	65		6		71,0003	1121	94,1978	26	91
3	3,362	37,322	4,77	0,60	5,5967	2,5440	-	0,80	-	113,4	3,178
	23	2	612		8	1	72,0196	7193	95,3203	16	4
3	3,387	40,105	4,73	0,58	5,8609	2,6683	-	0,80	-	109,8	3,094
	12	4	73			3	73,1654	268	96,5484	47	37
3	3,416	43,331	4,68	0,57	6,1720	2,8151	-	0,79	-	105,9	3,009
	97	7	739		8	3	74,4408	7529	97,8711	29	31
3	3,452	47,053	4,62	0,55	6,5390	2,9886	-	0,79	-99,28	101,6	2,924
	81	1	286		9	3	75,8494	167		84	82
3	3,495	51,324	4,53	0,53	6,9730	3,1941	-	0,78	-	97,15	2,842
	8	3	894		6	4	77,3856	5039	100,761	45	46
3	3,547	56,206	4,42	0,51	7,4877	3,4381	-79,043	0,77	-	92,39	2,763
	4	4	928		1	7		7615	102,269	81	9
3	3,609	61,769	4,28	0,49	8,1005	3,7289	-	0,76	-	87,48	2,690
	32	2	527		4	1	80,8172	9413	103,722	68	72
3	3,624	63,117	4,24	0,48	8,2530	3,8012	-	0,76	-	86,35	2,675
	84	3	737		9	1	81,2799	743	104,047	59	85
3	3,624	63,117	4,24	0,48	8,2530	3,8012	-	0,76	-	86,35	2,675

	84	3	737		9	1	81,2799	743	104,047	59	85
3	3,683 62	68,069 4	4,10 976	0,47	9,0844 4	3,9022 3	- 83,7583	0,75 9995	- 105,028	82,25 9	2,639 12
3	3,772 78	75,151 9	3,93 896	0,44	10,349 8	4,0345 2	- 87,1983	0,74 9612	- 106,142	76,80 74	2,601 03
3	3,879 78	83,065 2	3,78 73	0,42	11,867 7	4,1964 5	- 89,7634	0,73 8631	- 107,331	71,30 78	2,557 54
3	4,008 17	91,857 3	3,65 057	0,40	13,691 5	4,3830 2	-91,722	0,72 6941	- 108,567	65,84 72	2,511 98
3	4,162 24	101,57 3	3,51 585	0,38	15,887 3	4,5861 4	- 93,4857	0,71 433	- 109,776	60,49 96	2,469 65
3	4,347 12	112,26	3,36 613	0,36	18,534 5	4,8060 7	- 95,2963	0,70 0591	- 110,908	55,32 82	2,433 46
3	4,568 98	123,96 2	3,18 627	0,34	21,726 9	5,0519 9	- 97,1743	0,68 5624	- 111,952	50,38 38	2,403 38
3	4,835 22	136,72 7	2,96 145	0,32	25,576 6	5,3372 1	- 99,0793	0,66 9379	- 112,912	45,70 84	2,378 65
3	5,154 7	150,59 6	2,67 466	0,30	30,218 2	5,6769 9	- 100,976	0,65 1852	- 113,787	41,33 86	2,358 59
3	5,538 07	165,61 2	2,30 415	0,28	35,811 7	6,0898 4	- 102,839	0,63 308	- 114,578	37,30 46	2,342 68
3	5,998 12	181,86 2	1,82 106	0,26	42,545 4	6,6019 1	- 104,649	0,61 3112	-115,29	33,62 44	2,330 36
3	6,198 98	188,47 8	1,59 727	0,26	45,489 3	6,8320 8	- 105,332	0,60 5118	- 115,541	32,30 35	2,326 51
3	6,198 98	188,47 8	1,59 727	0,26	45,489 3	6,8320 8	- 105,332	0,60 5118	- 115,541	32,30 35	2,326 51
3	6,379 08	194,19 5	1,39 008	0,25	48,130 3	7,0412 8	- 105,901	0,59 8274	- 115,743	31,23 64	2,323 67
3	6,379 08	194,19 5	1,39 008	0,12	48,130 3	7,0110 6	- 105,901	0		31,33 96	2,017 29
3	6,550 18	199,46 1	1,19 813	0,12	50,259	7,5056 6	- 102,241	0		30,27 59	1,975 31
3	6,582 11	200,42 4	1,16 348	0,12	50,658 4	7,5928 6	- 101,595	0		30,09 1	1,968 1
3	6,582 11	200,42 4	1,16 348	0,12	50,658 4	7,5928 6	- 101,595	0		30,09 1	1,968 1
3	7,212	218,38	0,48	0,11	58,627	9,1164	-	0		27,08	1,854

	66	2	6337		6	9	90,6401			38	13
3	7,639	229,59	0,01	0,09	64,070	10,015	-	0		25,54	1,797
	72	8			7	3	84,6702			17	94
3	7,639	229,59	0	0,09	64,070	10,034	-	0		25,51	1,797
	72	8			7	2	84,6711			87	95
3	8,007	238,69	0	0,08	68,767	10,347	-	0		24,35	1,758
	63	4			7	8	80,2189			24	34
3	8,961	260,56	0	0,05	80,903	11,079	-	0		21,87	1,676
	59	9			7	7	70,2779			63	47
3	10,10	284,31	0	0,04	95,353	11,846	-	0		19,62	1,604
	63	3			8	8	60,6287			6	62
3	11,48	309,91	0	0,03	112,45	12,638	-	0		17,60	1,541
						9	51,3947			84	92
3	13,12	337,45	0	0,03	132,54	13,454	-	0		15,81	1,487
	85	9			7	4	42,6621			22	38
3	15,10	367,13	0	0,02	156,01	14,295	-	0		14,21	1,440
	66	2			1	7	34,5184			88	2
3	17,48	399,21	0	0,02	183,25	15,167	-	0		12,80	1,399
	04	6			5		27,0604			51	78
3	20,32	433,96	0	0,02	214,75	16,060	-	0		11,55	1,365
	89	5				6	20,3983			45	71
3	23,74	471,60	0	0,01	251,05	16,960	-	0		10,45	1,337
	71	2			3	4	14,6021			3	5
3	27,84	512,42	0	0,01	292,54	17,852	-	0		9,485	1,314
	9	3			2	7	9,66451			41	42
3	32,77	556,93	0	0,01	339,49	18,734	-	0		8,632	1,295
	12	8			5	4	5,50504			8	61
3	38,67	605,82	0	0,01	392,77	19,607	-	0		7,877	1,280
	79	6			3	7	2,01119				22
3	45,76	659,54	0	0,01	453,27	20,439	0,77699	0		7,209	1,268
	59	4			3	4	3			03	28
3	54,27	718,83	0	0,01	522,03	21,251	3,38277	0		6,619	1,257
	16	6			9	6				74	26
3	64,47	784,51	0	0,01	600,14	22,027	5,63129	0		6,099	1,247
	83				7	6				06	89
3	76,72	857,38	0	0,01	688,82	22,752	7,57758	0		5,639	1,239
	64	4			6	8				94	87
3	91,42	938,45	0	0,00	789,5	23,416	9,26938	0		5,235	1,232

	41	1				1				27	97
3	109,0 61	1029,2 3	0	0,00	904,11 7	24,019 3	10,7504	0		4,876 74	1,226 96
3	130,2 26	1131,6 4	0	0,00	1035,1 2	24,560 9	12,055	0		4,557 68	1,221 69
3	155,6 24	1247,1 7	0	0,00	1184,6 6	25,017 2	13,2046	0		4,274 62	1,217 06
3	177,4 46	1341,1 7	0	0,00	1307,2	25,290 4	13,963	0		4,087 44	1,214 01
3	186,1 01	1377,0 9	0	0,00	1354,0 9	25,373 3	14,2208	0		4,023 75	1,212 98
3	222,6 74	1524,5 1	0	0,00	1548,3 8	25,614 3	15,1208	0		3,801 41	1,209 34
3	266,5 61	1693,5	0	0,00	1772,1 8	25,770 8	15,9337	0		3,600 47	1,206 05
3	319,2 25	1886,7 3	0	0,00	2028,9 8	25,813 7	16,6667	0		3,419 14	1,203 06
3	382,4 23	2107,5 9	0	0,00	2323,0 8	25,724 3	17,3318	0		3,255 07	1,200 32
3	458,2 6	2360,2 1	0	0,00	2659,5 2	25,495 4	17,9425	0		3,105 31	1,197 76
3	549,2 64	2649,3 7	0	0,00	3043,7	25,121	18,5124	0		2,967 43	1,195 32
3	658,4 69	2981	0	0,00	3481,7 6	24,605	19,0564	0		2,839 01	1,192 93
3	789,5 16	3361,0 9	0	0,00	3978,6 8	24,024 5	19,6002	0		2,725 87	1,190 49
3	934,6 96	3765,1 3	0	0,00	4497,1 2	23,873 1	20,2704	0		2,651 93	1,187 64
4	6,658 53	187,82 9	0	16,90	0,0017 7245	0,9262 05	24,7363	0		0,519 559	1,173 59
4	6,758 53	187,88 1	0	305,9 4	2,2961 8	0,0065 6527	- 8,97739	0		0,516 78	1,327 38
4	6,858 53	187,93 3	0	319,0 6	3,2620 8	0,0123 668	-10,984	0		0,516 807	1,337 32
4	6,958 53	187,98 4	0	321,8 6	4,0069 5	0,0182 685	- 11,3996	0		0,516 817	1,339 38



4	7,058 53	188,03 6	0	322,5 3	4,6380 3	0,0241 952	- 11,5428	0		0,516 828	1,340 11
4	7,158 53	188,08 8	0	322,5 5	5,1984 4	0,0301 202	- 11,6036	0		0,516 837	1,340 43
4	7,258 53	188,14	0	322,2 6	5,7082	0,0360 442	- 11,6306	0		0,516 846	1,340 59
4	7,358 53	188,19 1	0	321,8 3	6,1796 5	0,0419 659	- 11,6416	0		0,516 855	1,340 66
4	7,458 53	188,24 3	0	321,3 3	6,6214 4	0,0478 798	- 11,6438	0		0,516 864	1,340 7
4	7,558 53	188,29 5	0	320,7 8	7,0385 8	0,0537 9	-11,641	0		0,516 872	1,340 71
4	7,658 53	188,34 6	0	320,2 2	7,4357 4	0,0596 922	-11,635	0		0,516 88	1,340 71
4	7,758 53	188,39 8	0	319,6 4	7,8156 5	0,0655 871	- 11,6269	0		0,516 887	1,340 69
4	7,858 53	188,45	0	319,0 6	8,1809 7	0,0714 722	- 11,6174	0		0,516 895	1,340 67
4	7,958 53	188,50 1	0	318,4 8	8,5339 3	0,0773 44	- 11,6069	0		0,516 902	1,340 64
4	8,058 53	188,55 3	0	317,9 0	8,8761 1	0,0832 022	- 11,5956	0		0,516 91	1,340 61
4	8,158 53	188,60 5	0	317,3 2	9,2078 5	0,0890 572	- 11,5837	0		0,516 917	1,340 57
4	8,258 53	188,65 6	0	316,7 5	9,5301 8	0,0949 084	- 11,5714	0		0,516 924	1,340 53
4	8,358 53	188,70 8	0	316,2 2	9,8441 9	0,1007 38	- 11,5657	0		0,516 93	1,340 53
4	8,458 53	188,76	0	315,8 1	10,151 3	0,1065 07	- 11,5783	0		0,516 936	1,340 61
4	8,558 53	188,81 2	0	315,5 1	10,452 4	0,1122 1	- 11,6067	0		0,516 941	1,340 78
4	8,658 53	188,86 3	0	315,4 8	10,747 1	0,1177 73	- 11,6805	0		0,516 944	1,341 17
4	8,778 53	188,92 5	0	315,7 8	11,093 9	0,1242 46	-11,823	0		0,516 946	1,341 91
4	8,922 53	189	0	316,5 3	11,500 8	0,1317 44	- 12,0551	0		0,516 946	1,343 11



4	9,095 33	189,08 9	0	317,9 1	11,977 3	0,1403 33	-12,414	0		0,516 944	1,344 95
4	9,302 69	189,19 6	0	320,1 0	12,533 3	0,1501 13	- 12,9268	0		0,516 94	1,347 58
4	9,551 53	189,32 5	0	323,2 4	13,181 5	0,1611 6	- 13,6226	0		0,516 935	1,351 15
4	9,850 13	189,47 9	0	327,4 8	13,935 4	0,1735 47	- 14,5257	0		0,516 93	1,355 8
4	10,20 84	189,66 4	0	332,9 3	14,810 1	0,1873 69	-15,662	0		0,516 925	1,361 68
4	10,63 84	189,88 7	0	339,7 0	15,826 7	0,2026 41	- 17,0485	0		0,516 921	1,368 9
4	11,15 44	190,15 3	0	347,8 9	17,007	0,2194 03	- 18,7074	0		0,516 919	1,377 61
4	11,77 36	190,47 3	0	357,6 1	18,374 3	0,2377 11	- 20,6548	0		0,516 918	1,387 96
4	12,51 66	190,85 8	0	368,9 2	19,96	0,2576 03	- 22,8562	0		0,516 92	1,399 8
4	13,40 82	191,31 8	0	381,8 5	21,797 8	0,2795 58	- 24,9883	0		0,516 923	1,411 35
4	14,47 81	191,87 1	0	396,1 8	23,928 9	0,3042 79	- 26,7539	0		0,516 931	1,420 87
4	15,76 2	192,53 5	0	411,5 8	26,393 4	0,3327 41	- 27,9707	0		0,516 942	1,427 23
4	17,30 27	193,33 2	0	427,7 6	29,260 1	0,3657 82	- 28,5326	0		0,516 955	1,429 74
4	19,15 16	194,28 7	0	444,1 6	32,752 3	0,4032 02	-28,248	0		0,516 976	1,427 25
4	21,37 02	195,43 4	0	459,6 3	37,109 9	0,446	-26,855	0		0,517 011	1,418 33
4	24,03 25	196,81 1	0	472,8 2	42,504 7	0,4972 33	- 24,1825	0		0,517 064	1,402 28
4	27,22 73	198,46 3	0	483,1 2	49,112 2	0,5597 72	- 20,3907	0		0,517 128	1,380 43
4	31,06 11	200,44 6	0	488,7 2	57,145 9	0,6388 92	- 15,6361	0		0,517 203	1,354 15
4	35,66 16	202,82 5	0	487,5 1	66,830 3	0,7417 29	- 10,2622	0		0,517 293	1,325 66



4	41,18 22	205,68 1	0	478,7 1	78,412 4	0,8750 2	- 4,82089	0	0,517 401	1,297 9
4	47,80 7	209,11	0	462,4 1	92,172 3	1,0434 3	0,04664 69	0	0,517 545	1,273 81
4	55,75 66	213,22 5	0	434,7 0	108,42 3	1,2577 2	4,80504	0	0,517 793	1,251 26
4	65,29 63	218,16 7	0	381,9 4	127,33 2	1,5328 1	9,21416	0	0,518 316	1,231 66
4	72,45 27	221,89 9	0	329,7 2	140,90 1	1,7205 1	12,2547	0	0,531 272	1,218 77
4	72,45 27	221,89 9	0	329,7 2	140,90 1	1,7205 5	12,2547	0	0,531 258	1,218 77
4	76,74 38	224,26 4	0	284,1 1	142,83 5	1,8205 2	14,2026	0	0,549 83	1,210 81
4	82,33 06	227,55 1	0	233,7 1	146,39 2	1,9672 6	16,0806	0	0,576 006	1,203 35
4	90,48 09	232,70 7	0	176,5 5	152,92	2,206	17,9262	0	0,616 755	1,196 27
4	101,4 03	240,20 1	0	123,9 6	163,09 1	2,5543 7	19,411	0	0,673 071	1,190 82
4	101,4 03	240,20 1	0	123,9 6	163,09 1	2,5543 7	19,411	0	0,673 072	1,190 82
4	106,9 65	244,02 4	0	104,9 2	170,74 6	2,7373 3	19,9058	0	0,701 398	1,189 07
4	126,7 47	258,96 3	0	59,76	193,32 4	3,5134 7	22,6758	0	0,813 924	1,179 59
4	150,4 84	280,10 1	0	32,70	210,54 9	4,6703 7	24,018	0	0,964 388	1,175 42
4	178,9 69	309,83 4	0	19,21	223,02 6	5,9905 8	24,5388	0	1,118 65	1,173 97
4	213,1 52	350,76 9	0	12,08	231,16 4	7,4230 4	24,7633	0	1,270 96	1,173 42
4	254,1 7	405,96 6	0	8,12	235,16	8,8824 8	24,8688	0	1,413 93	1,173 19
4	303,3 93	478,79 2	0	5,86	238,24 7	10,148 8	24,922	0	1,530 7	1,173 09
4	362,4 59	571,90 4	0	4,47	242,14	11,177 8	24,9521	0	1,621 08	1,173 04



4	395,585	626,408	0	3,88	244,392	11,7479	24,9628	0		1,66947	1,17303
4	407,566	646,515	0	3,77	245,219	11,9523	24,966	0		1,68676	1,17303
5	140,136	166,458	0	16,90	0,00177245	0,926429	24,8083	0		0,519559	1,17331
5	140,236	166,51	0	685,24	2,53068	0,007094	0,183002	0		0,513095	1,26311
5	140,336	166,561	0	717,67	3,58847	0,0134379	-0,535856	0		0,513121	1,26531
5	140,436	166,612	0	725,39	4,40302	0,0198751	-0,692688	0		0,513136	1,26575
5	140,536	166,664	0	728,10	5,09264	0,0263356	-0,750144	0		0,513149	1,26592
5	140,636	166,715	0	729,06	5,70437	0,0327925	-0,775721	0		0,513162	1,26601
5	140,736	166,766	0	729,23	6,26025	0,0392461	-0,788393	0		0,513176	1,26606
5	140,836	166,818	0	728,98	6,77428	0,0456927	-0,794795	0		0,51319	1,26611
5	140,936	166,869	0	728,51	7,25473	0,0521355	-0,797773	0		0,513203	1,26614
5	141,036	166,92	0	727,90	7,70797	0,0585736	-0,798747	0		0,513216	1,26618
5	141,136	166,972	0	727,20	8,13863	0,0650051	-0,798483	0		0,513229	1,26621
5	141,236	167,023	0	726,44	8,55027	0,0714281	-0,797416	0		0,513242	1,26623



5	141,336	167,074	0	725,64	8,94529	0,0778455	-0,795803	0	0,513254	1,26626
5	141,436	167,126	0	724,82	9,32569	0,0842583	-0,793816	0	0,513267	1,26629
5	141,536	167,177	0	723,97	9,69333	0,0906643	-0,791555	0	0,513279	1,26632
5	141,636	167,228	0	723,11	10,0502	0,0970559	-0,789093	0	0,513291	1,26634
5	141,736	167,28	0	722,24	10,3968	0,10344	-0,786473	0	0,513303	1,26637
5	141,836	167,331	0	721,36	10,7349	0,109809	-0,783728	0	0,513316	1,26639
5	141,936	167,382	0	720,46	11,0646	0,116171	-0,780883	0	0,513328	1,26642
5	142,036	167,434	0	719,57	11,387	0,12252	-0,777954	0	0,51334	1,26645
5	142,136	167,485	0	718,66	11,7024	0,128861	-0,774961	0	0,513353	1,26647
5	142,256	167,546	0	717,57	12,0728	0,136456	-0,771298	0	0,513367	1,2665
5	142,4	167,62	0	716,25	12,5064	0,145551	-0,76682	0	0,513385	1,26654
5	142,573	167,709	0	714,65	13,0129	0,156434	-0,761355	0	0,513406	1,26658
5	142,78	167,816	0	712,73	13,6029	0,169457	-0,754713	0	0,513432	1,26664
5	143,0	167,94	0	710,4	14,287	0,1850	-	0	0,513	1,266

	29	3		8	2	31	0,74914			462	71
							1				
5	143,3	168,09	0	708,7	15,079	0,2033	-	0		0,513	1,266
	28	7		1	8	59	0,78228			491	96
							2				
5	143,6	168,28	0	708,7	15,995	0,2244	-	0		0,513	1,267
	86	1		0	7	44	0,91388			512	62
							4				
5	144,1	168,50	0	711,6	17,053	0,2481	-1,1991	0		0,513	1,268
	16	1		0	8	67				521	93
5	144,6	168,76	0	717,7	18,275	0,2745	-	0		0,513	1,270
	32	6		3	5	85	1,65759			525	96
5	145,2	169,08	0	726,9	19,685	0,3038	-	0		0,513	1,273
	51	4		8	6	67	2,29325			534	74
5	145,9	169,46	0	739,2	21,312	0,3361	-	0		0,513	1,277
	94	6		4	3	57	3,11627			551	34
5	146,8	169,92	0	754,3	23,191	0,3714	-4,1392	0		0,513	1,281
	86	4		6	8	97				581	83
5	147,9	170,47	0	772,1	25,369	0,4098	-	0		0,513	1,287
	56	3		1	9	59	5,37052			628	27
5	149,2	171,13	0	792,0	27,900	0,4514	-	0		0,513	1,293
	4	3		5	1	33	6,72011			698	24
5	150,7	171,92	0	813,3	30,842	0,4969	-	0		0,513	1,298
	8	4		3	1	31	7,98999			798	76
5	152,6	172,87	0	834,7	34,263	0,5473	-	0		0,513	1,303
	29	4		3	7	29	9,08349			931	39
5	154,8	174,01	0	854,9	38,253	0,6036	-	0		0,514	1,306
	48	5		0	2	69	9,92907			102	81
5	157,5	175,38	0	871,7	43,139	0,6644	-	0		0,514	1,308
	1	4		8	1	01	10,4004			321	47
5	160,7	177,02	0	881,9	49,310	0,7295	-	0		0,514	1,307
	05	7		4	8	94	10,2919			614	43
5	164,5	179,00	0	881,6	57,016	0,8037	-9,4405	0		0,514	1,303
	39	1		9	1	7				981	05
5	169,1	181,37	0	868,2	66,534	0,8922	-	0		0,515	1,295
	39	1		3	3	45	7,82458			403	37
5	174,6	184,21	0	839,9	78,188	1,0008	-	0		0,515	1,285
	6	8		9	7	3	5,55864			858	12



5	181,2 85	187,63 7	0	797,6 7	92,376 9	1,1343	- 2,88254	0		0,516 324	1,273 51
5	189,2 34	191,74 3	0	743,0 2	109,58 7	1,2972 8	- 0,02754 02	0		0,516 793	1,261 62
5	198,7 74	196,67 6	0	677,6 8	130,43 2	1,4950 5	2,80324	0		0,517 26	1,250 42
5	210,2 21	202,62 7	0	599,5 8	155,40 7	1,7142 9	5,98637	0		0,529 043	1,238 12
5	223,9 58	210,17 4	0	504,3 5	184,44 7	1,9419 7	9,43742	0		0,570 256	1,225 22
5	240,4 43	220,02 3	0	390,7 8	217,40 2	2,2637 4	13,2563	0		0,625 858	1,211 15
5	243,4 13	221,89 9	0	368,1 0	223,02 9	2,3306 2	14,0331	0		0,636 514	1,208 24
5	243,4 13	221,89 9	0	368,1 0	223,02 9	2,3305 6	14,0331	0		0,636 531	1,208 24
5	260,2 24	233,53 7	0	252,8 9	237,50 3	2,7662 7	17,6127	0		0,705 683	1,195 18
5	262,0 09	234,84	0	243,2 2	239,23 3	2,8174 4	17,8644	0		0,713 454	1,194 32
5	271,1 61	241,79 2	0	200,3 1	248,61 6	3,0892 4	18,9084	0		0,753 776	1,190 82
5	271,1 61	241,79 2	0	200,3 1	248,61 6	3,0892 4	18,9084	0		0,753 776	1,190 82
5	283,9 62	251,8	0	155,6 7	267,55 5	3,4810 5	19,8719	0		0,809 419	1,187 75
5	312,4 47	276,75 6	0	92,35	300,02 7	4,5516 6	22,8412	0		0,949 747	1,178 16
5	346,6 29	312,47	0	53,98	321,43 4	6,1359 3	24,1275	0		1,134 66	1,174 56
5	387,6 48	362,81 1	0	35,35	333,36 4	7,8329 9	24,592	0		1,312 29	1,173 45
5	436,8 7	431,58	0	25,55	337,52 5	9,5357 4	24,7871	0		1,475 08	1,173 06
5	495,9 37	522,46 4	0	20,73	341,35 9	10,805 2	24,8761	0		1,588 73	1,172 9
5	566,8	638,83	0	17,23	346,18	12,037	24,928	0		1,693	1,172

	17	4			1					84	83
5	570,7 88	645,57 2	0	17,06	346,45 8	12,105 4	24,93	0		1,699 55	1,172 83
6	257,6 49	166,45 8	0	16,90	0,0017 7245	0,9263 82	24,7931	0		0,519 559	1,173 37
6	257,7 49	166,51	0	518,8 2	2,532	0,0069 214	- 1,11617	0		0,514 752	1,277 22
6	257,8 49	166,56 1	0	542,5 1	3,5934 9	0,0131 046	-2,0696	0		0,514 775	1,280 98
6	257,9 49	166,61 3	0	547,9 7	4,4119 9	0,0193 734	- 2,30487	0		0,514 788	1,281 92
6	258,0 49	166,66 4	0	549,7 6	5,1041 3	0,0256 735	- 2,38866	0		0,514 8	1,282 27
6	258,1 49	166,71 6	0	550,3 3	5,7172 9	0,0319 757	- 2,42824	0		0,514 811	1,282 44
6	258,2 49	166,76 7	0	550,3 5	6,2752 5	0,0382 705	- 2,44915	0		0,514 821	1,282 55
6	258,3 49	166,81 9	0	550,0 7	6,7918 8	0,0445 534	- 2,46086	0		0,514 832	1,282 62
6	258,4 49	166,87	0	549,6 2	7,2746	0,0508 358	- 2,46752	0		0,514 843	1,282 67
6	258,5 49	166,92 2	0	549,0 8	7,7297 9	0,0571 157	- 2,47127	0		0,514 853	1,282 72
6	258,6 49	166,97 3	0	548,4 7	8,1624 4	0,0633 888	- 2,47322	0		0,514 863	1,282 76
6	258,7 49	167,02 5	0	547,8 3	8,5762 3	0,0696 523	- 2,47397	0		0,514 873	1,282 79
6	258,8 49	167,07 6	0	547,1 6	8,9738 8	0,0759 049	-2,4739	0		0,514 883	1,282 82
6	258,9 49	167,12 8	0	546,4 7	9,3575 9	0,0821 452	- 2,47324	0		0,514 893	1,282 85
6	259,0 49	167,17 9	0	545,7 6	9,7289 4	0,0883 741	- 2,47213	0		0,514 903	1,282 87
6	259,1 49	167,23 1	0	545,0 4	10,089 951	0,0945 2,47069	-	0		0,514 913	1,282 9
6	259,2 49	167,28 2	0	544,3 1	10,438 8	0,1008 1	-2,469	0		0,514 923	1,282 92

6	259,349	167,334	0	543,57	10,7794	0,107017	-2,46712	0	0,514933	1,28295
6	259,449	167,385	0	542,83	11,1116	0,113218	-2,4651	0	0,514942	1,28297
6	259,549	167,437	0	542,08	11,4362	0,11941	-2,46297	0	0,514952	1,28299
6	259,649	167,488	0	541,33	11,7539	0,125594	-2,46076	0	0,514962	1,28302
6	259,769	167,55	0	540,43	12,1269	0,133003	-2,45803	0	0,514974	1,28304
6	259,913	167,624	0	539,35	12,5638	0,141874	-2,45466	0	0,514987	1,28307
6	260,086	167,713	0	538,05	13,0742	0,152492	-2,4505	0	0,515004	1,28311
6	260,293	167,82	0	536,71	13,6691	0,165122	-2,45883	0	0,515022	1,28322
6	260,542	167,948	0	536,12	14,3607	0,179819	-2,53419	0	0,515037	1,28363
6	260,841	168,102	0	536,90	15,1621	0,196672	-2,71933	0	0,515047	1,28453
6	261,199	168,286	0	539,67	16,0895	0,215681	-3,05893	0	0,515049	1,28613
6	261,629	168,508	0	544,68	17,1619	0,23691	-3,57644	0	0,515049	1,28854
6	262,145	168,774	0	551,96	18,4014	0,26049	-4,28238	0	0,515051	1,2918
6	262,764	169,092	0	561,47	19,8336	0,286519	-5,1902	0	0,515059	1,29601
6	263,507	169,475	0	573,19	21,4897	0,31505	-6,31632	0	0,515075	1,30124
6	264,399	169,934	0	587,02	23,4062	0,346088	-7,68181	0	0,515102	1,30763
6	265,469	170,486	0	602,79	25,6305	0,379591	-9,2784	0	0,515143	1,31517
6	266,753	171,147	0	620,07	28,2175	0,415939	-10,9159	0	0,515203	1,3229
6	268,293	171,941	0	638,08	31,2276	0,455938	-12,3816	0	0,515287	1,32975

6	270,1 42	172,89 4	0	655,8 0	34,729 7	0,5006 16	- 13,5687	0	0,515 397	1,335 19
6	272,3 61	174,03 7	0	672,0 3	38,855	0,5505 34	- 14,4165	0	0,515 535	1,338 93
6	275,0 23	175,41	0	684,8 8	43,976 4	0,6043 18	- 14,7305	0	0,515 713	1,34
6	278,2 18	177,05 8	0	691,4 8	50,433 7	0,6635 94	- 14,2637	0	0,515 948	1,337 2
6	282,0 52	179,03 7	0	689,6 8	58,437 3	0,7327 3	- 12,9307	0	0,516 226	1,330 22
6	286,6 52	181,41 2	0	680,0 6	68,306 6	0,8125 01	- 10,9472	0	0,516 532	1,320 26
6	292,1 73	184,26 5	0	660,4 5	80,375 7	0,9086 34	-8,339	0	0,516 859	1,307 63
6	298,7 97	187,69	0	629,1 5	95,043 7	1,0283 5	- 5,23162	0	0,517 198	1,293 12
6	306,7 47	191,80 3	0	586,0 1	112,78 1	1,1792 2	- 1,83953	0	0,517 54	1,277 84
6	316,2 87	196,74 2	0	533,4 4	134,20 7	1,3661 5	1,435	0	0,517 879	1,263 67
6	327,7 34	202,67 2	0	472,1 3	159,93 7	1,6044 2	4,97535	0	0,518 216	1,248 76
6	341,4 71	209,97 9	0	398,2 5	190,22 4	1,8322 2	8,72387	0	0,551 226	1,233 38
6	357,9 56	219,50 5	0	308,0 3	224,52 4	2,1437 6	12,8422	0	0,605 682	1,216 77
6	361,8 63	221,89 9	0	285,0 7	232,21 1	2,2277 7	13,8849	0	0,619 888	1,212 53
6	361,8 63	221,89 9	0	285,0 7	232,21 1	2,2277 7	13,8849	0	0,619 888	1,212 53
6	369,0 31	226,52 5	0	241,1 2	237,07 9	2,3983 4	15,807	0	0,648 056	1,204 73
6	377,7 37	232,53 2	0	197,2 8	244,49 1	2,6286 9	17,4529	0	0,684 594	1,198 25
6	395,4 39	245,95 4	0	134,5 3	262,57 7	3,1474 1	19,4277	0	0,762 237	1,190 82
6	395,4 39	245,95 4	0	134,5 3	262,57 7	3,1474 1	19,4277	0	0,762 237	1,190 82

6	401,475	250,634	0	119,23	271,79	3,33195	19,8474	0	0,788577	1,18931
6	429,96	274,983	0	69,61	306,789	4,37463	22,8203	0	0,927648	1,17908
6	464,142	309,974	0	39,60	330,919	5,97069	24,1521	0	1,11645	1,17499
6	505,161	359,688	0	25,31	346,004	7,70478	24,6158	0	1,29945	1,17373
6	554,383	427,853	0	18,14	353,672	9,37373	24,8021	0	1,46012	1,17328
6	613,45	517,904	0	14,61	357,548	10,6635	24,8861	0	1,57632	1,17309
6	678,654	623,85	0	12,31	361,959	11,7871	24,9313	0	1,67299	1,17399
7	419,604	166,458	0	16,90	0,00177245	0,926334	24,7776	0	0,519559	1,17343
7	419,704	166,51	0	382,12	2,53474	0,00675233	-2,67793	0	0,516076	1,29135
7	419,804	166,562	0	398,49	3,60049	0,0127918	-3,92481	0	0,516096	1,29698
7	419,904	166,613	0	402,09	4,42199	0,0189135	-4,19312	0	0,516108	1,29819
7	420,004	166,665	0	403,21	5,11672	0,0250659	-4,29106	0	0,516117	1,29864
7	420,104	166,716	0	403,51	5,73042	0,0312397	-4,33658	0	0,516125	1,29886
7	420,204	166,768	0	403,47	6,28934	0,0374045	-4,36093	0	0,516132	1,29899
7	420,304	166,82	0	403,23	6,80802	0,0435498	-4,37493	0	0,51614	1,29907
7	420,404	166,871	0	402,86	7,29299	0,0496926	-4,38316	0	0,516147	1,29913
7	420,504	166,923	0	402,43	7,75079	0,0558268	-4,38807	0	0,516155	1,29917
7	420,604	166,975	0	401,96	8,18577	0,0619553	-4,39091	0	0,516163	1,29921
7	420,7	167,02	0	401,4	8,6019	0,0680	-	0	0,516	1,299

	04	6		6	6	719	4,39237			17	24
7	420,8 04	167,07 8	0	400,9 3	9,0025	0,0741 701	- 4,39287	0		0,516 178	1,299 27
7	420,9 04	167,12 9	0	400,3 9	9,3888	0,0802 575	- 4,39268	0		0,516 185	1,299 29
7	421,0 04	167,18 1	0	399,8 3	9,7620	0,0863 461	- 4,39202	0		0,516 193	1,299 31
7	421,1 04	167,23 3	0	399,2 8	10,124	0,0924 257	-4,391	0		0,516 2	1,299 33
7	421,2 04	167,28 4	0	398,7 1	10,475	0,0984 979	- 4,38972	0		0,516 207	1,299 35
7	421,3 04	167,33 6	0	398,1 5	10,818	0,1045 69	- 4,38824	0		0,516 214	1,299 37
7	421,4 04	167,38 7	0	397,5 9	11,152	0,1106 34	-4,3866	0		0,516 222	1,299 39
7	421,5 04	167,43 9	0	397,0 2	11,478	0,1166 93	- 4,38485	0		0,516 229	1,299 4
7	421,6 04	167,49 1	0	396,4 6	11,798	0,1227 45	- 4,38301	0		0,516 236	1,299 42
7	421,7 24	167,55 3	0	395,7 8	12,173	0,1299 98	- 4,38071	0		0,516 244	1,299 44
7	421,8 68	167,62 7	0	394,9 7	12,613	0,1386 78	- 4,37784	0		0,516 254	1,299 46
7	422,0 41	167,71 6	0	394,4 3	13,127	0,1488 83	-4,4159	0		0,516 263	1,299 68
7	422,2 49	167,82 3	0	394,4 1	13,727	0,1607 47	- 4,52282	0		0,516 27	1,300 23
7	422,4 97	167,95 2	0	395,4 1	14,426	0,1742 82	- 4,75082	0		0,516 273	1,301 35
7	422,7 96	168,10 6	0	397,8 2	15,239	0,1895 07	- 5,14382	0		0,516 271	1,303 26
7	423,1 54	168,29 1	0	401,7 2	16,179	0,2066 05	- 5,71517	0		0,516 268	1,306 02
7	423,5 84	168,51 3	0	407,1 0	17,263	0,2257 69	-6,4695	0		0,516 267	1,309 67
7	424,1 9	168,77 9	0	414,0 3	18,518	0,2470 4	- 7,42754	0		0,516 27	1,314 3
7	424,7	169,09	0	422,6	19,971	0,2703	-	0		0,516	1,320



	19	9		4	7	68	8,62529			276	13
7	425,4 62	169,48 3	0	432,9 0	21,653 4	0,2957 87	- 10,0809	0		0,516 288	1,327 25
7	426,3 54	169,94 3	0	444,7 5	23,604 2	0,3232 45	- 11,8129	0		0,516 308	1,335 82
7	427,4 24	170,49 5	0	458,0 4	25,868 9	0,3528 81	- 13,7408	0		0,516 34	1,345 43
7	428,7 08	171,15 8	0	472,4 4	28,501 2	0,3852 64	-15,602	0		0,516 385	1,354 74
7	430,2 49	171,95 4	0	487,3 3	31,563 7	0,4211 41	-17,224	0		0,516 446	1,362 82
7	432,0 97	172,90 9	0	501,8 7	35,130 1	0,4615 36	- 18,4654	0		0,516 526	1,368 9
7	434,3 16	174,05 5	0	515,1 0	39,363 7	0,5068 18	- 19,2135	0		0,516 626	1,372 38
7	436,9 78	175,43	0	525,2 6	44,674 7	0,5559 64	- 19,2399	0		0,516 759	1,372 04
7	440,1 73	177,08 2	0	531,6 1	51,327 7	0,6097 48	- 18,4792	0		0,516 927	1,367 55
7	444,0 07	179,06 4	0	533,5 4	59,565 4	0,6697 95	- 16,9554	0		0,517 124	1,359 15
7	448,6 07	181,44 3	0	528,6 2	69,695 5	0,7411 27	- 14,5669	0		0,517 346	1,346 51
7	454,1 28	184,3	0	514,9 1	82,068 4	0,8297 85	- 11,3819	0		0,517 584	1,330 26
7	460,7 53	187,73	0	491,2 3	97,081 5	0,9426 76	-7,6338	0		0,517 829	1,311 81
7	468,7 03	191,84 7	0	457,9 2	115,21 4	1,0867 2	- 3,65208	0		0,518 073	1,292 87
7	478,2 42	196,79 1	0	416,6 0	137,06 1	1,2677 3	0,09306 61	0		0,518 316	1,275 64
7	489,6 9	202,72 6	0	368,7 3	163,32 9	1,4970 6	4,01953	0		0,518 562	1,258 1
7	503,4 27	209,91 1	0	312,8 3	194,46 6	1,7484 8	7,99564	0		0,536 38	1,240 74
7	519,9 11	219,18 3	0	241,7 6	229,80 8	2,0500 7	12,4298	0		0,589 954	1,221 69
7	524,4	221,89	0	220,8	238,99	2,1459	13,7026	0		0,606	1,216

	53	9		5	2	6				38	2
7	524,4 53	221,89 9	0	220,8 5	238,99 2	2,1459 6	13,7026	0		0,606 38	1,216 2
7	524,4 56	221,90 1	0	220,8 3	238,99 3	2,1460 4	13,7038	0		0,606 394	1,216 2
7	539,6 93	231,94 9	0	154,5 6	249,99 6	2,5244 9	17,3083	0		0,668 321	1,200 81
7	562,4 46	249,21 3	0	94,38	273,21 5	3,1887	19,7566	0		0,768 192	1,190 82
7	562,4 46	249,21 3	0	94,38	273,21 5	3,1887	19,7566	0		0,768 192	1,190 82
7	563,4 3	249,97 2	0	92,54	274,74 9	3,2189 2	19,8217	0		0,772 523	1,190 56
7	591,9 15	273,86 8	0	53,57	311,55 4	4,2456 3	22,7966	0		0,911 15	1,179 82
7	626,0 98	308,30 3	0	30,02	337,68 2	5,8406 4	24,1657	0		1,101 91	1,175 32
7	667,1 16	357,52	0	18,83	354,92 6	7,6057	24,6313	0		1,289 48	1,173 93
7	716,3 39	425,30 2	0	13,30	364,91 1	9,3120 9	24,8135	0		1,454 41	1,173 43
7	775,4 05	515,14 9	0	10,61	369,88 8	10,646 4	24,8939	0		1,574 87	1,173 22
7	835,0 42	611,72 2	0	9,07	373,91	11,677 7	24,9334	0		1,663 74	1,173 12
8	641,4 2	166,45 8	0	16,90	0,0017 7245	0,9262 97	24,7657	0		0,519 559	1,173 48
8	641,5 2	166,51	0	289,6 7	2,5323 6	0,0066 2876	- 4,05174	0		0,516 953	1,302 59
8	641,6 2	166,56 2	0	301,0 2	3,6007 9	0,0125 697	- 5,45255	0		0,516 971	1,309 29
8	641,7 2	166,61 3	0	303,4 2	4,4233 5	0,0186 04	- 5,75168	0		0,516 981	1,310 72
8	641,8 2	166,66 5	0	304,1 0	5,1207 8	0,0246 505	-5,8609	0		0,516 988	1,311 26
8	641,9 2	166,71 7	0	304,2 2	5,7378 6	0,0307 071	- 5,91175	0		0,516 994	1,311 51



8	642,0	166,76	0	304,1	6,2977	0,0367	-	0	0,517	1,311
	2	9		0	4	741	5,93886			66
8	642,1	166,82	0	303,8	6,8153	0,0428	-	0	0,517	1,311
	2			6	9	386	5,95461		006	75
8	642,2	166,87	0	303,5	7,3017	0,0488	-	0	0,517	1,311
	2	2		6	1	816	5,96421		012	81
8	642,3	166,92	0	303,2	7,7627	0,0549	-5,9701	0	0,517	1,311
	2	4		1	4	037			017	86
8	642,4	166,97	0	302,8	8,2009	0,0609	-5,9736	0	0,517	1,311
	2	5		2	7	195			023	9
8	642,5	167,02	0	302,4	8,6186	0,0669	-	0	0,517	1,311
	2	7		0		394	5,97558		029	93
8	642,6	167,07	0	301,9	9,0195	0,0729	-	0	0,517	1,311
	2	9		9	2	541	5,97654		035	95
8	642,7	167,13	0	301,5	9,4070	0,0789	-	0	0,517	1,311
	2			6	2	477	5,97677		041	97
8	642,8	167,18	0	301,1	9,7820	0,0849	-	0	0,517	1,311
	2	2		2	3	33	5,97648		046	99
8	642,9	167,23	0	300,6	10,146	0,0909	-	0	0,517	1,312
	2	4		8	2	028	5,97579		052	01
8	643,0	167,28	0	300,2	10,499	0,0968	-	0	0,517	1,312
	2	6		4	6	767	5,97481		058	02
8	643,1	167,33	0	299,8	10,844	0,1028	-	0	0,517	1,312
	2	7		0	2	38	5,97361		063	04
8	643,2	167,38	0	299,3	11,180	0,1087	-	0	0,517	1,312
	2	9		6	2	96	5,97224		068	05
8	643,3	167,44	0	298,9	11,508	0,1147	-	0	0,517	1,312
	2	1		2	8	47	5,97074		074	06
8	643,4	167,49	0	298,5	11,830	0,1206	-	0	0,517	1,312
	2	2		3	2	72	5,97577		079	11
8	643,5	167,55	0	298,1	12,207	0,1277	-	0	0,517	1,312
	4	4		7	6	16	5,99678		084	23
8	643,6	167,62	0	297,9	12,649	0,1360	-	0	0,517	1,312
	84	9		2	7	5	6,04624		089	5
8	643,8	167,71	0	298,0	13,166	0,1457	-	0	0,517	1,313
	57	8		2	2	68	6,16121		093	09
8	644,0	167,82	0	298,7	13,769	0,1569	-6,3826	0	0,517	1,314
	64	6		4		31			095	2



8	644,3 13	167,95 4	0	300,3 4	14,471 6	0,1695 84	- 6,75101	0		0,517 093	1,316 04
8	644,6 12	168,10 9	0	302,9 9	15,288 7	0,1837 99	- 7,29624	0		0,517 089	1,318 75
8	644,9 7	168,29 4	0	306,7 4	16,236 1	0,1997 15	- 8,03405	0		0,517 086	1,322 41
8	645,4	168,51 6	0	311,6 1	17,331 7	0,2174 79	- 8,97587	0		0,517 085	1,327 11
8	645,9 16	168,78 3	0	317,7 0	18,598 7	0,2371 2	- 10,1518	0		0,517 087	1,332 99
8	646,5 35	169,10 3	0	325,0 7	20,064 9	0,2586 29	- 11,5924	0		0,517 091	1,340 25
8	647,2 78	169,48 7	0	333,7 3	21,762 8	0,2819 81	-13,323	0		0,517 1	1,349 06
8	648,1 7	169,94 8	0	343,6 5	23,734 1	0,3070 79	- 15,3631	0		0,517 116	1,359 55
8	649,2 4	170,50 2	0	354,6 6	26,027 8	0,3340 51	- 17,5809	0		0,517 141	1,371 1
8	650,5 24	171,16 6	0	366,4 3	28,694 2	0,3637 29	- 19,5948	0		0,517 177	1,381 63
8	652,0 64	171,96 3	0	378,3 4	31,795 7	0,3969 5	- 21,2559	0		0,517 225	1,390 32
8	653,9 13	172,91 9	0	389,8 3	35,407 9	0,4346 75	- 22,4549	0		0,517 287	1,396 51
8	656,1 32	174,06 7	0	400,1 2	39,757 1	0,4767 81	- 23,0485	0		0,517 365	1,399 37
8	658,7 94	175,44 4	0	408,6 3	45,185 8	0,5221 28	- 22,9344	0		0,517 466	1,398 31
8	661,9 89	177,09 8	0	415,4 7	51,986 9	0,5697 76	- 22,1434	0		0,517 59	1,393 51
8	665,8 23	179,08 2	0	418,6 1	60,394 4	0,6239 72	- 20,4004	0		0,517 739	1,383 6
8	670,4 23	181,46 4	0	415,5 3	70,700 5	0,6907 57	- 17,5637	0		0,517 907	1,368 1
8	675,9 44	184,32 4	0	404,6 8	83,257 1	0,7759 63	- 13,8112	0		0,518 085	1,348 32
8	682,5 69	187,75 7	0	385,5 4	98,472	0,8857 05	- 9,50507	0		0,518 266	1,326 44

8	690,5 18	191,87 8	0	358,8 6	116,84 3	1,0261 3	- 5,04398	0		0,518 446	1,304 53
8	700,0 58	196,82 4	0	326,0 2	138,96 5	1,2042 1	- 0,71269 6	0		0,518 624	1,283 87
8	711,5 05	202,76 2	0	288,6 0	165,59 1	1,4264 7	3,28112	0		0,518 803	1,265 36
8	725,2 43	209,90 7	0	245,6 2	197,26 2	1,6948	7,45514	0		0,527 035	1,246 38
8	741,7 27	219,00 5	0	190,4 3	233,38	1,9847 6	12,0898	0		0,578 857	1,225 6
8	746,6 51	221,89 9	0	172,5 7	243,53 6	2,0874	13,5267	0		0,596 571	1,219 16
8	746,6 51	221,89 9	0	172,5 7	243,53 6	2,0874	13,5267	0		0,596 57	1,219 16
8	746,6 55	221,90 1	0	172,5 6	243,53 7	2,0874 9	13,528	0		0,596 584	1,219 15
8	761,5 08	231,54 4	0	121,4 7	253,47 5	2,4516 7	17,1904	0		0,656 785	1,202 81
8	785,2 46	249,40 7	0	72,28	277,33 1	3,1385 6	19,7976	0		0,760 972	1,191 54
8	787,9 17	251,54 7	0	68,50	280,24 4	3,2201 3	19,9675	0		0,772 699	1,190 82
8	787,9 17	251,54 7	0	68,50	280,24 4	3,2201 2	19,9675	0		0,772 699	1,190 82
8	813,7 31	273,06 1	0	41,60	314,16 8	4,1524 5	22,7743	0		0,899 188	1,180 39
8	847,9 13	307,08 4	0	23,06	341,72 5	5,7443 2	24,1737	0		1,091 03	1,175 57
8	888,9 32	355,92 9	0	14,27	360,46 4	7,5324 5	24,6416	0		1,282 07	1,174 07
8	938,1 54	423,43 1	0	9,97	371,94 1	9,2692 1	24,8212	0		1,450 42	1,173 53
8	997,2 21	513,17 1	0	7,88	377,74 9	10,647 4	24,8993	0		1,574 91	1,173 31
8	1058, 16	611,92 7	0	6,71	381,85 1	11,704 8	24,9374	0		1,665 9	1,173 2

9	933,7 51	166,45 8	0	16,90	0,0017 7245	0,9262 68	24,7564	0		0,519 559	1,173 51
9	933,8 51	166,51	0	222,9 4	2,5308	0,0065 2471	- 5,15201	0		0,517 576	1,311 31
9	933,9 51	166,56 2	0	230,6 9	3,6030 4	0,0123 878	- 6,67974	0		0,517 594	1,318 87
9	934,0 51	166,61 4	0	232,2 4	4,4249 4	0,0183 616	- 7,00283	0		0,517 601	1,320 48
9	934,1 51	166,66 5	0	232,6 5	5,1237 3	0,0243 416	- 7,12086	0		0,517 606	1,321 08
9	934,2 51	166,71 7	0	232,6 6	5,7419 3	0,0303 275	- 7,17595	0		0,517 611	1,321 36
9	934,3 51	166,76 9	0	232,5 0	6,3051 6	0,0362 986	- 7,20554	0		0,517 616	1,321 52
9	934,4 51	166,82 1	0	232,2 7	6,8254 6	0,0422 71	-7,2228	0		0,517 621	1,321 62
9	934,5 51	166,87 2	0	231,9 9	7,3117 3	0,0482 454	- 7,23342	0		0,517 625	1,321 69
9	934,6 51	166,92 4	0	231,7 0	7,7705 5	0,0542 199	- 7,24014	0		0,517 63	1,321 74
9	934,7 51	166,97 6	0	231,3 9	8,2067 5	0,0601 921	- 7,24443	0		0,517 634	1,321 78
9	934,8 51	167,02 8	0	231,0 8	8,6244	0,0661 516	- 7,24716	0		0,517 638	1,321 81
9	934,9 51	167,08	0	230,7 6	9,0266 3	0,0720 938	- 7,24878	0		0,517 642	1,321 83
9	935,0 51	167,13 1	0	230,4 3	9,4159 6	0,0780 136	- 7,24962	0		0,517 647	1,321 85
9	935,1 51	167,18 3	0	230,0 9	9,7936 9	0,0839 152	- 7,24986	0		0,517 651	1,321 87
9	935,2 51	167,23 5	0	229,7 4	10,160 2	0,0898 097	- 7,24964	0		0,517 655	1,321 88
9	935,3 51	167,28 7	0	229,3 9	10,516 1	0,0956 989	- 7,24907	0		0,517 66	1,321 89
9	935,4 51	167,33 8	0	229,0 5	10,861 7	0,1015 93	- 7,24826	0		0,517 664	1,321 91
9	935,5 51	167,39	0	228,7 0	11,199	0,1074 79	- 7,24726	0		0,517 669	1,321 92



9	935,6 51	167,44 2	0	228,3 5	11,528 8	0,1133 57	- 7,24612	0		0,517 673	1,321 93
9	935,7 51	167,49 4	0	228,0 4	11,851 7	0,1192 04	-7,2525	0		0,517 677	1,321 97
9	935,8 71	167,55 6	0	227,8 3	12,231 1	0,1261 02	- 7,29043	0		0,517 68	1,322 18
9	936,0 15	167,63	0	227,8 9	12,675 8	0,1341 24	- 7,39662	0		0,517 683	1,322 73
9	936,1 88	167,72	0	228,3 5	13,195 4	0,1433 82	- 7,59842	0		0,517 683	1,323 76
9	936,3 95	167,82 7	0	229,3 5	13,801 2	0,1539 74	- 7,92562	0		0,517 682	1,325 42
9	936,6 44	167,95 6	0	231,0 0	14,506	0,1660 11	- 8,40391	0		0,517 68	1,327 85
9	936,9 43	168,11 1	0	233,4 0	15,324 5	0,1795 84	- 9,06115	0		0,517 677	1,331 18
9	937,3 01	168,29 6	0	236,6 6	16,274 4	0,1947 42	- 9,92682	0		0,517 675	1,335 58
9	937,7 31	168,51 9	0	240,8 4	17,376 6	0,2115 21	- 11,0281	0		0,517 674	1,341 2
9	938,2 47	168,78 6	0	245,9 9	18,653 3	0,2299 82	- 12,3893	0		0,517 674	1,348 19
9	938,8 66	169,10 6	0	252,1 2	20,131	0,2501 44	- 14,0347	0		0,517 678	1,356 72
9	939,6 09	169,49 1	0	259,2 4	21,843 2	0,2719 56	- 15,9903	0		0,517 685	1,366 96
9	940,5 01	169,95 2	0	267,3 1	23,832 3	0,2953 37	- 18,2586	0		0,517 698	1,379
9	941,5 71	170,50 6	0	276,1 8	26,144	0,3206 7	- 20,5885	0		0,517 718	1,391 51
9	942,8 55	171,17 1	0	285,6 1	28,830 1	0,3486 34	- 22,7062	0		0,517 746	1,403
9	944,3 95	171,96 9	0	295,2 2	31,952 4	0,3800 28	- 24,4407	0		0,517 783	1,412 44
9	946,2 44	172,92 6	0	304,4 8	35,591 7	0,4158 35	- 25,6407	0		0,517 831	1,418 91
9	948,4 63	174,07 5	0	312,8 0	39,982 8	0,4557 85	- 26,1747	0		0,517 89	1,421 6



9	951,1 25	175,45 4	0	320,3 9	45,528 4	0,4969 07	- 26,0651	0		0,517 966	1,420 59
9	954,3 2	177,10 9	0	326,7 6	52,416	0,5406 07	- 25,1849	0		0,518 061	1,415 18
9	958,1 54	179,09 5	0	329,8 8	60,915 8	0,5917 03	- 23,1738	0		0,518 174	1,403 5
9	962,7 54	181,47 9	0	327,9 0	71,333 5	0,6556 97	- 19,9498	0		0,518 301	1,385 46
9	968,2 75	184,34 1	0	319,4 0	84,006 9	0,7387 59	- 15,7259	0		0,518 435	1,362 67
9	974,9	187,77 6	0	304,2 1	99,359 7	0,8462 78	- 10,9771	0		0,518 571	1,337 97
9	982,8 49	191,89 9	0	283,0 3	117,90 2	0,9839 82	- 6,13916	0		0,518 707	1,313 66
9	992,3 89	196,84 8	0	256,9 9	140,24 1	1,1585 7	- 1,50603	0		0,518 842	1,291 03
9	1003, 84	202,78 8	0	227,3 6	167,12 5	1,3764 9	2,69084	0		0,518 979	1,271 05
9	1017, 57	209,92 6	0	193,4 7	199,13 1	1,6616 6	7,05319	0		0,519 82	1,250 68
9	1034, 06	218,90 7	0	150,4 8	235,82 1	1,9388 2	11,8221	0		0,570 875	1,228 67
9	1039, 22	221,89 9	0	135,6 8	246,61 7	2,0448 8	13,3775	0		0,589 373	1,221 49
9	1039, 22	221,89 9	0	135,6 8	246,61 7	2,0448 8	13,3775	0		0,589 373	1,221 49
9	1039, 22	221,90 1	0	135,6 7	246,61 9	2,0449 6	13,3788	0		0,589 387	1,221 48
9	1053, 84	231,28 4	0	95,82	255,78 7	2,3998 8	17,1005	0		0,648 498	1,204 35
9	1077, 58	249	0	56,77	279,25 2	3,0812 1	19,7793	0		0,752 653	1,192 28
9	1082, 91	253,28 1	0	51,00	285,08 9	3,2437	20,1098	0		0,776 074	1,190 82
9	1082, 91	253,28 1	0	51,00	285,08 9	3,2437 2	20,1098	0		0,776 071	1,190 82
9	1106, 06	272,52 5	0	32,52	315,68	4,0856 7	22,7563	0		0,890 527	1,180 82



9	1140,24	306,24	0	17,90	344,27	5,6721	24,1782	0		1,082	1,175
		6			9	5				86	75
9	1181,26	354,81	0	10,96	364,09	7,4777	24,6486	0		1,276	1,174
		5			5	5				54	17
9	1230,49	422,10	0	7,60	376,62	9,2363	24,8264	0		1,447	1,173
		5			7	7				49	61
9	1289,55	511,76	0	5,97	383,03	10,646	24,9029	0		1,574	1,173
		5			5	1				77	37
9	1351,42	612,08	0	5,07	387,18	11,719	24,94	0		1,667	1,173
		8			1	5				18	26
10	1318,63	166,45	0	16,90	0,0017	0,9262	24,749	0		0,519	1,173
		8			7245	45				559	54
10	1318,73	166,51	0	172,2	2,5262	0,0064	-	0		0,518	1,318
				2	8	2993	6,08837			044	49
10	1318,83	166,56	0	177,2	3,6025	0,0122	-	0		0,518	1,326
		2		5	5	389	7,70835			061	7
10	1318,93	166,61	0	178,1	4,4283	0,0181	-	0		0,518	1,328
		4		1	6	4	8,04919			068	44
10	1319,03	166,66	0	178,2	5,1261	0,0240	-	0		0,518	1,329
		6		5	7	729	8,17277			072	08
10	1319,13	166,71	0	178,1	5,7433	0,0300	-	0		0,518	1,329
		7		9	1	204	8,23041			076	38
10	1319,23	166,76	0	178,0	6,3066	0,0359	-8,2617	0		0,518	1,329
		9		4	8	491				079	55
10	1319,33	166,82	0	177,8	6,8280	0,0418	-	0		0,518	1,329
		1		3	3	71	8,28011			083	66
10	1319,43	166,87	0	177,5	7,3159	0,0477	-	0		0,518	1,329
		3		9		858	8,29158			087	73
10	1319,53	166,92	0	177,3	7,7764	0,0536	-	0		0,518	1,329
		5		4	1	946	8,29899			09	78
10	1319,63	166,97	0	177,0	8,2148	0,0595	-	0		0,518	1,329
		6		9	4	906	8,30385			093	82
10	1319,73	167,02	0	176,8	8,6348	0,0654	-	0		0,518	1,329
		8		2	7	714	8,30702			097	85
10	1319,83	167,08	0	176,5	9,0387	0,0713	-	0		0,518	1,329
				5	3	407	8,30904			1	87
10	1319,	167,13	0	176,2	9,4278	0,0772	-	0		0,518	1,329



	93	2		8	8	078	8,31025			104	89
10	1320,03	167,184	0	176,01	9,80412	0,0830713	-	0		0,518107	1,32991
10	1320,13	167,236	0	175,74	10,1691	0,0889286	-	0		0,51811	1,32992
10	1320,23	167,287	0	175,47	10,5239	0,0947805	-	0		0,518113	1,32993
10	1320,33	167,339	0	175,20	10,8696	0,100628	-	0		0,518117	1,32994
10	1320,43	167,391	0	174,95	11,2071	0,106458	-	0		0,51812	1,32997
10	1320,53	167,443	0	174,75	11,5371	0,112238	-	0		0,518122	1,33007
10	1320,63	167,495	0	174,60	11,8605	0,117963	-	0		0,518125	1,33023
10	1320,75	167,557	0	174,54	12,2409	0,124703	-	0		0,518127	1,33059
10	1320,89	167,631	0	174,68	12,6875	0,132542	-	0		0,518128	1,3313
10	1321,07	167,721	0	175,14	13,2101	0,141564	-	0		0,518129	1,33254
10	1321,27	167,828	0	176,09	13,8195	0,151789	-	0		0,518127	1,33459
10	1321,52	167,957	0	177,66	14,5286	0,163272	-	0		0,518124	1,33762
10	1321,82	168,112	0	179,84	15,3523	0,176146	-	0		0,518121	1,3417
10	1322,18	168,298	0	182,59	16,3074	0,190611	-	0		0,518119	1,34681
10	1322,61	168,526	0	186,05	17,4138	0,206656	-	0		0,518119	1,35322
10	1323,12	168,788	0	190,24	18,6965	0,224256	-	0		0,518119	1,36112
10	1323,74	169,109	0	195,20	20,1836	0,243397	-	0		0,518122	1,3707
10	1324,49	169,494	0	200,93	21,9062	0,264071	-	0		0,518129	1,38215
10	1325,	169,95	0	207,4	23,905	0,2862	-	0		0,518	1,395

	38	5		1	1	56	20,6974			139	44
10	1326,45	170,51	0	214,54	26,2274	0,310325	-23,1773	0		0,518154	1,40913
10	1327,73	171,175	0	222,09	28,9307	0,336875	-25,3973	0		0,518176	1,42154
10	1329,27	171,974	0	229,71	32,0791	0,366833	-27,1193	0		0,518205	1,43121
10	1331,12	172,932	0	236,99	35,7383	0,401376	-28,2556	0		0,518241	1,43755
10	1333,34	174,081	0	243,77	40,1887	0,439049	-28,7758	0		0,518287	1,4403
10	1336	175,461	0	250,55	45,7766	0,476795	-28,7603	0		0,518343	1,43987
10	1339,2	177,118	0	256,19	52,7289	0,517552	-27,8049	0		0,518416	1,43394
10	1343,03	179,105	0	258,91	61,2972	0,566585	-25,5158	0		0,518504	1,42042
10	1347,63	181,491	0	257,29	71,7812	0,629219	-21,908	0		0,518601	1,39985
10	1353,15	184,354	0	250,36	84,5342	0,710904	-17,3015	0		0,518703	1,37454
10	1359,78	187,791	0	238,12	99,9839	0,816875	-12,1865	0		0,518806	1,34748
10	1367,73	191,915	0	221,28	118,649	0,952497	-7,04433	0		0,518909	1,3212
10	1377,27	196,866	0	200,76	141,145	1,12427	-2,17142	0		0,519011	1,29699
10	1388,71	202,808	0	177,48	168,224	1,33884	2,19882	0		0,519116	1,27575
10	1402,45	209,94	0	151,21	200,517	1,61874	6,67329	0		0,519226	1,25444
10	1418,94	218,814	0	118,28	237,725	1,89865	11,5271	0		0,563886	1,23154
10	1424,31	221,899	0	106,09	249,127	2,00824	13,2136	0		0,583114	1,22358
10	1424,31	221,899	0	106,09	249,127	2,00824	13,2136	0		0,583114	1,22358
10	1424,31	221,90	0	106,09	249,127	2,00834	13,215	0		0,583114	1,22358

	32	1		8	8	2				128	58
10	1438,72	231,048	0	75,16	257,606	2,35509	17,0012	0		0,641269	1,20574
10	1462,45	248,636	0	44,35	280,708	3,03211	19,7555	0		0,745483	1,19293
10	1469,88	254,6	0	38,19	288,847	3,25811	20,2161	0		0,778151	1,19082
10	1469,88	254,6	0	38,19	288,847	3,25818	20,2161	0		0,778133	1,19082
10	1490,94	272,056	0	25,30	316,802	4,02807	22,7319	0		0,883021	1,18121
10	1525,12	305,514	0	13,84	346,252	5,60845	24,1787	0		1,0756	1,17591
10	1566,14	353,831	0	8,41	366,917	7,42815	24,653	0		1,27148	1,17426
10	1615,36	420,93	0	5,78	380,265	9,2062	24,8301	0		1,44456	1,17366
10	1674,43	510,496	0	4,52	387,196	10,6432	24,9056	0		1,5746	1,17342
10	1737,16	612,232	0	3,83	391,424	11,7336	24,9421	0		1,66857	1,1733
11	1829,81	166,458	0	16,90	0,00177245	0,926225	24,7427	0		0,519559	1,17357
11	1829,91	166,51	0	131,57	2,51783	0,00634713	-6,86388	0		0,518416	1,32439
11	1830,01	166,562	0	134,52	3,59592	0,0121142	-8,59404	0		0,518431	1,33331
11	1830,11	166,614	0	134,90	4,42346	0,017974	-8,95573	0		0,518436	1,3352
11	1830,21	166,666	0	134,86	5,12328	0,0238583	-9,08682	0		0,51844	1,33589
11	1830,31	166,718	0	134,72	5,74267	0,0297489	-9,1481	0		0,518444	1,33622
11	1830,41	166,769	0	134,54	6,30507	0,0356426	-9,18123	0		0,518446	1,3364
11	1830,51	166,821	0	134,35	6,82591	0,0415253	-9,20097	0		0,518449	1,33651

11	1830,61	166,873	0	134,14	7,31405	0,0473972	-9,21345	0	0,518452	1,33659
11	1830,71	166,925	0	133,94	7,77552	0,053259	-9,22165	0	0,518454	1,33664
11	1830,81	166,977	0	133,72	8,21503	0,0591083	-9,22717	0	0,518457	1,33668
11	1830,91	167,029	0	133,51	8,63586	0,0649463	-9,23093	0	0,51846	1,33671
11	1831,01	167,081	0	133,29	9,03987	0,0707803	-9,23346	0	0,518462	1,33673
11	1831,11	167,132	0	133,08	9,42954	0,0766065	-9,23514	0	0,518465	1,33675
11	1831,21	167,184	0	132,86	9,80638	0,0824271	-9,23619	0	0,518467	1,33677
11	1831,31	167,236	0	132,65	10,1721	0,0882394	-9,23678	0	0,51847	1,33678
11	1831,41	167,288	0	132,44	10,5278	0,0940425	-9,23703	0	0,518472	1,33679
11	1831,51	167,340	0	132,23	10,8747	0,0998357	-9,23702	0	0,518475	1,3368
11	1831,61	167,392	0	132,02	11,2136	0,105619	-9,2368	0	0,518477	1,33681
11	1831,71	167,443	0	131,87	11,5451	0,111333	-9,25882	0	0,518479	1,33693
11	1831,81	167,495	0	131,80	11,8697	0,116942	-9,31233	0	0,518481	1,33722
11	1831,93	167,558	0	131,86	12,2511	0,123498	-9,42289	0	0,518482	1,3378
11	1832,07	167,632	0	132,12	12,6982	0,131076	-9,62462	0	0,518482	1,33885
11	1832,24	167,722	0	132,63	13,2209	0,139782	-9,94174	0	0,518481	1,3405
11	1832,45	167,829	0	133,49	13,8309	0,149681	-10,4107	0	0,51848	1,34294
11	1832,7	167,958	0	134,76	14,5412	0,16086	-11,0591	0	0,518478	1,34632
11	1833,3	168,113	0	136,49	15,3669	0,173393	-11,9151	0	0,518476	1,3508



11	1833,36	168,299	0	138,72	16,3253	0,187344	-	0	0	0,518474	1,35653
11	1833,79	168,522	0	141,50	17,4363	0,202765	-	0	0	0,518474	1,36369
11	1834,3	168,789	0	144,84	18,7235	0,219663	-	0	0	0,518474	1,37248
11	1834,92	169,11	0	148,79	20,2138	0,238032	-	0	0	0,518476	1,38309
11	1835,66	169,496	0	153,33	21,942	0,257799	-20,28	0	0	0,518481	1,39571
11	1836,55	169,958	0	158,43	23,9518	0,278911	-	0	0	0,518489	1,41024
11	1837,62	170,513	0	164,00	26,29	0,301803	-25,506	0	0	0,518501	1,42501
11	1838,91	171,178	0	169,87	29,0095	0,327218	-	0	0	0,518518	1,43807
11	1840,45	171,977	0	175,76	32,1684	0,356153	-	0	0	0,51854	1,44811
11	1842,3	172,936	0	181,34	35,8703	0,389344	-	0	0	0,518568	1,45432
11	1844,52	174,087	0	186,80	40,395	0,424709	-	0	0	0,518602	1,45704
11	1847,18	175,467	0	192,27	46,0263	0,460568	-	0	0	0,518645	1,45627
11	1850,37	177,124	0	196,77	53,0166	0,499973	-	0	0	0,5187	1,44931
11	1854,21	179,113	0	199,02	61,6333	0,547597	-	0	0	0,518767	1,43439
11	1858,81	181,5	0	197,83	72,1751	0,608881	-	0	0	0,51884	1,41193
11	1864,33	184,364	0	192,51	84,9966	0,689155	-18,617	0	0	0,518917	1,38456
11	1870,95	187,802	0	183,01	100,529	0,793544	-	0	0	0,518994	1,3556
11	1878,9	191,928	0	169,86	119,296	0,927378	-	0	0	0,519071	1,32765
11	1888,44	196,881	0	153,89	141,919	1,09695	-	0	0	0,519148	1,30206

11	1899,89	202,824	0	135,71	169,113	1,31061	1,81533	0		0,519227	1,27955
11	1913,63	209,959	0	115,45	201,601	1,58746	6,42015	0		0,51931	1,25728
11	1930,11	218,778	0	90,49	239,162	1,87189	11,3431	0		0,559229	1,23366
11	1935,6	221,899	0	80,97	250,903	1,98273	13,1011	0		0,578734	1,22523
11	1935,6	221,899	0	80,97	250,903	1,98273	13,1011	0		0,578733	1,22523
11	1935,6	221,901	0	80,96	250,904	1,98282	13,1025	0		0,578748	1,22522
11	1949,89	230,917	0	57,44	258,9	2,3245	16,9398	0		0,636302	1,2068
11	1973,63	248,421	0	33,81	281,73	2,99759	19,7422	0		0,740413	1,19344
11	1981,92	255,07	0	28,60	290,806	3,24967	20,311	0		0,776896	1,19082
11	1981,92	255,07	0	28,60	290,806	3,24961	20,311	0		0,776912	1,19082
11	2002,12	271,746	0	19,25	317,823	3,98573	22,7162	0		0,877477	1,18151
11	2036,3	305,001	0	10,50	347,858	5,55676	24,1792	0		1,06963	1,17605
11	2077,32	353,101	0	6,34	369,125	7,38181	24,6562	0		1,26673	1,17433
11	2126,54	419,988	0	4,34	383,056	9,16726	24,8326	0		1,44085	1,17371
11	2185,61	509,354	0	3,38	390,381	10,6193	24,9075	0		1,57244	1,17345
11	2249,14	612,322	0	2,85	394,7	11,7304	24,9437	0		1,66793	1,17333
12	2523,62	166,458	0	16,90	0,00177245	0,926208	24,737	0		0,519559	1,17359
12	2523,72	166,51	0	97,57	2,50908	0,0062417	-7,57044	0		0,518724	1,32965
12	2523,	166,56	0	98,71	3,5939	0,0119	-	0		0,518	1,339

	82	2		6	624	9,41496				739	29
12	2523,92	166,614	0	98,66	4,4238	0,0177874	-	0		0,518744	1,3413
12	2524,02	166,666	0	98,497	5,12537	0,023632	-	0		0,518747	1,34203
12	2524,12	166,718	0	98,302	5,74712	0,0294709	-	0		0,518749	1,34238
12	2524,22	166,77	0	98,111	6,31191	0,0353107	-10,03	0		0,518752	1,34257
12	2524,32	166,822	0	97,92	6,8335	0,041152	-	0		0,518754	1,34269
12	2524,42	166,873	0	97,746	7,32116	0,0469958	-	0		0,518756	1,34277
12	2524,52	166,925	0	97,577	7,78197	0,0528316	-	0		0,518758	1,34282
12	2524,62	166,977	0	97,418	8,22148	0,0586494	-	0		0,518759	1,34286
12	2524,72	167,029	0	97,246	8,64356	0,0644444	-	0		0,518761	1,34289
12	2524,82	167,081	0	97,077	9,05017	0,0702232	-	0		0,518763	1,34292
12	2524,92	167,133	0	96,903	9,44213	0,0759957	-10,088	0		0,518765	1,34293
12	2525,02	167,185	0	96,744	9,82004	0,0817723	-	0		0,518767	1,34295
12	2525,12	167,237	0	96,575	10,1865	0,0875432	-	0		0,518769	1,34296
12	2525,22	167,288	0	96,419	10,5429	0,0933053	-	0		0,518771	1,34297
12	2525,32	167,34	0	96,261	10,8911	0,0990309	-	0		0,518773	1,34302
12	2525,42	167,392	0	96,124	11,2314	0,104729	-	0		0,518774	1,34309
12	2525,52	167,444	0	96,052	11,5642	0,110327	-	0		0,518775	1,34334
12	2525,62	167,496	0	96,081	11,8901	0,11576	-	0		0,518776	1,34385
12	2525,72	167,55	0	96,21	12,272	0,1221	-	0		0,518777	1,344



	74	8			7	13	10,4156			776	7
12	2525,88	167,633	0	96,48	12,7209	0,129454	-10,6741	0		0,518776	1,34606
12	2526,06	167,722	0	96,96	13,2451	0,137867	-11,0573	0		0,518776	1,34808
12	2526,26	167,83	0	97,67	13,8565	0,147459	-11,5914	0		0,518774	1,35089
12	2526,51	167,959	0	98,67	14,5685	0,158304	-12,3069	0		0,518773	1,35466
12	2526,81	168,114	0	100,00	15,3966	0,170463	-13,2344	0		0,518772	1,35958
12	2527,17	168,3	0	101,70	16,3576	0,183995	-14,4065	0		0,518771	1,36582
12	2527,6	168,523	0	103,81	17,4683	0,198977	-15,8589	0		0,51877	1,37362
12	2528,11	168,791	0	106,35	18,7533	0,215381	-17,6194	0		0,51877	1,38316
12	2528,73	169,112	0	109,33	20,2472	0,233083	-19,7125	0		0,518772	1,39465
12	2529,48	169,497	0	112,73	21,9874	0,252014	-22,1433	0		0,518775	1,40819
12	2530,37	169,96	0	116,53	24,0098	0,272267	-24,8676	0		0,518781	1,42363
12	2531,44	170,515	0	120,66	26,3575	0,294451	-27,4984	0		0,51879	1,43882
12	2532,72	171,181	0	124,99	29,0827	0,319222	-29,7821	0		0,518802	1,4522
12	2534,26	171,98	0	129,38	32,2487	0,347398	-31,5352	0		0,518819	1,46259
12	2536,11	172,94	0	133,62	35,9392	0,379767	-32,6476	0		0,518839	1,46918
12	2538,33	174,091	0	138,03	40,4539	0,413193	-33,3163	0		0,518862	1,47308
12	2540,99	175,472	0	142,51	46,1351	0,446297	-33,3336	0		0,518893	1,47296
12	2544,19	177,13	0	146,14	53,1896	0,483451	-32,104	0		0,518934	1,46522
12	2548,	179,12	0	147,8	61,841	0,5301	-	0		0,518	1,448

	02			1	4	5	29,3187			983	29
12	2552,62	181,507	0	146,79	72,4139	0,590867	-25,1105	0		0,519036	1,42356
12	2558,14	184,373	0	142,74	85,2829	0,670205	-19,8963	0		0,519092	1,39407
12	2564,77	187,812	0	135,65	100,888	0,773138	-14,2215	0		0,519148	1,36322
12	2572,72	191,939	0	125,86	119,746	0,905234	-8,58445	0		0,519204	1,33366
12	2582,26	196,892	0	113,95	142,479	1,07285	-3,30113	0		0,51926	1,30674
12	2593,7	202,837	0	100,46	169,828	1,28327	1,38514	0		0,519317	1,2833
12	2607,44	209,971	0	85,43	202,504	1,55618	6,11875	0		0,519377	1,26011
12	2623,93	218,738	0	67,06	240,37	1,84629	11,1432	0		0,554694	1,23568
12	2629,52	221,899	0	59,88	252,45	1,95824	12,9689	0		0,574499	1,2268
12	2629,52	221,899	0	59,88	252,45	1,95824	12,9689	0		0,574499	1,2268
12	2629,53	221,901	0	59,87	252,451	1,95833	12,9704	0		0,574513	1,2268
12	2643,71	230,786	0	42,53	259,983	2,29533	16,8677	0		0,631539	1,2078
12	2667,44	248,21	0	24,96	282,547	2,96536	19,7246	0		0,735659	1,1939
12	2676,53	255,489	0	20,77	292,487	3,24159	20,3885	0		0,77575	1,19082
12	2676,53	255,489	0	20,77	292,487	3,24154	20,3885	0		0,775762	1,19082
12	2695,93	271,447	0	14,19	318,602	3,94672	22,696	0		0,872347	1,18179
12	2730,11	304,516	0	7,72	349,154	5,50818	24,1773	0		1,06409	1,17616
12	2771,13	352,425	0	4,63	370,931	7,34122	24,6584	0		1,26261	1,17439
12	2820,	419,14	0	3,16	385,32	9,1340	24,8346	0		1,437	1,173



	35				9	8				83	75
12	2879,42	508,39	0	2,45	392,946	10,6024	24,909	0		1,57094	1,17348
12	2943,61	612,408	0	2,07	397,229	11,7229	24,9448	0		1,66726	1,17336
13	3498,16	166,458	0	16,90	0,00177245	0,926191	24,7317	0		0,519559	1,17361
13	3498,26	166,51	0	68,31	2,49109	0,00611743	-8,23319	0		0,518987	1,33448
13	3498,36	166,562	0	68,00	3,58508	0,0117969	-10,2151	0		0,519001	1,34495
13	3498,46	166,614	0	67,61	4,41878	0,017583	-10,6165	0		0,519005	1,3471
13	3498,56	166,666	0	67,32	5,12293	0,0233858	-10,7605	0		0,519008	1,34788
13	3498,66	166,718	0	67,10	5,7456	0,0291941	-10,8278	0		0,51901	1,34825
13	3498,76	166,77	0	66,90	6,31009	0,0350118	-10,8643	0		0,519011	1,34845
13	3498,86	166,822	0	66,74	6,83154	0,040831	-10,8861	0		0,519013	1,34858
13	3498,96	166,874	0	66,59	7,32088	0,0466328	-10,9001	0		0,519014	1,34866
13	3499,06	166,925	0	66,45	7,78533	0,0524089	-10,9096	0		0,519015	1,34871
13	3499,16	166,977	0	66,31	8,22812	0,0581706	-10,9162	0		0,519017	1,34876
13	3499,26	167,029	0	66,18	8,65043	0,0639329	-10,9209	0		0,519018	1,34879
13	3499,36	167,081	0	66,05	9,05533	0,0696946	-10,9242	0		0,51902	1,34881
13	3499,46	167,133	0	65,93	9,44575	0,0754498	-10,9267	0		0,519021	1,34883
13	3499,56	167,185	0	65,80	9,82472	0,0811802	-10,9285	0		0,519022	1,34885
13	3499,66	167,237	0	65,68	10,1924	0,0869056	-10,9298	0		0,519023	1,34886



13	3499,76	167,289	0	65,57	10,5505	0,0926144	-	10,9308	0	0,519025	1,34887
13	3499,86	167,341	0	65,46	10,8988	0,098318	-	10,9361	0	0,519026	1,3489
13	3499,96	167,393	0	65,40	11,2394	0,103906	-	10,9811	0	0,519027	1,34914
13	3500,06	167,445	0	65,38	11,5719	0,109416	-	11,0524	0	0,519028	1,34952
13	3500,16	167,496	0	65,42	11,898	0,114743	-	11,1791	0	0,519028	1,3502
13	3500,28	167,559	0	65,54	12,2805	0,120965	-	11,3761	0	0,519028	1,35124
13	3500,42	167,633	0	65,77	12,7291	0,128147	-	11,6768	0	0,519028	1,35284
13	3500,6	167,723	0	66,13	13,2536	0,136384	-	12,1074	0	0,519027	1,35512
13	3500,8	167,831	0	66,66	13,8659	0,145749	-	12,7007	0	0,519026	1,35828
13	3501,05	167,96	0	67,39	14,5793	0,156313	-	13,4879	0	0,519025	1,36248
13	3501,35	168,115	0	68,36	15,4089	0,168136	-	14,5006	0	0,519024	1,36791
13	3501,71	168,301	0	69,58	16,3721	0,181261	-	15,7706	0	0,519023	1,37476
13	3502,14	168,524	0	71,08	17,4895	0,19571	-	17,3295	0	0,519023	1,38325
13	3502,66	168,792	0	72,86	18,7857	0,211469	-	19,2061	0	0,519023	1,39357
13	3503,27	169,113	0	74,95	20,2898	0,228496	-21,425		0	0,519024	1,40594
13	3504,02	169,499	0	77,34	22,0341	0,246762	-	23,9997	0	0,519027	1,42053
13	3504,91	169,962	0	80,00	24,0609	0,266261	-26,876		0	0,519031	1,43715
13	3505,98	170,517	0	82,88	26,4181	0,287646	-	29,5742	0	0,519037	1,45305
13	3507,26	171,183	0	85,89	29,1545	0,311642	-	31,8702	0	0,519046	1,46681



13	3508,8	171,983	0	88,88	32,3332	0,33913	-	0	0,519057	1,47712
13	3510,65	172,943	0	91,81	36,058	0,370316	-	0	0,51907	1,48365
13	3512,87	174,094	0	95,00	40,6233	0,401764	-	0	0,519087	1,48787
13	3515,53	175,476	0	98,16	46,3211	0,433879	-	0	0,519108	1,48732
13	3518,73	177,135	0	100,69	53,3844	0,470333	-	0	0,519136	1,47874
13	3522,56	179,125	0	101,96	62,0747	0,515706	-	0	0,519169	1,46068
13	3527,16	181,514	0	101,36	72,6976	0,575069	-	0	0,519205	1,43424
13	3532,68	184,38	0	98,56	85,6198	0,653353	-21,06	0	0,519243	1,40274
13	3539,31	187,82	0	93,58	101,28	0,755438	-	0	0,519281	1,37003
13	3547,26	191,948	0	86,73	120,21	0,886416	-	0	0,519319	1,33899
13	3556,8	196,903	0	78,44	143,032	1,05252	-	0	0,519356	1,31093
13	3568,24	202,848	0	69,08	170,488	1,2613	1,01926	0	0,519395	1,28656
13	3581,98	209,983	0	58,69	203,316	1,53157	5,86825	0	0,519436	1,26255
13	3598,47	218,719	0	46,14	241,429	1,82635	10,9664	0	0,551032	1,23748
13	3603,28	221,412	0	41,96	251,937	1,92005	12,539	0	0,567824	1,22974
13	3603,28	221,412	0	41,96	251,937	1,92005	12,539	0	0,567824	1,22974
13	3604,14	221,903	0	41,09	252,097	1,93816	12,8818	0	0,571013	1,22805
13	3618,25	230,738	0	29,20	259,358	2,27225	16,8247	0	0,627755	1,20858
13	3641,99	248,151	0	17,10	281,815	2,94021	19,7176	0	0,731935	1,19427



13	3651,64	255,891	0	14,06	292,395	3,23367	20,4549	0		0,774601	1,19082
13	3651,64	255,891	0	14,06	292,395	3,23357	20,4549	0		0,774625	1,19082
13	3670,47	271,338	0	9,70	317,855	3,91723	22,6885	0		0,868456	1,182
13	3704,65	304,265	0	5,27	348,785	5,47204	24,1787	0		1,05992	1,17625
13	3745,67	352,021	0	3,15	370,957	7,30897	24,6611	0		1,2593	1,17443
13	3794,89	418,595	0	2,14	385,73	9,10733	24,8365	0		1,43532	1,17378
13	3853,96	507,721	0	1,66	393,587	10,5816	24,9103	0		1,56911	1,17351
13	3918,78	612,589	0	1,40	397,948	11,7092	24,946	0		1,66587	1,17338

Weather: Category 5/D

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

Observer Release Data and Observer Mass Data

Observer number	Release type	Start time [s]	Start downwind distance [m]	Unit	Masses or mass rates			
					Release	Rainout	Pool vapour pick-up	Final
1	Continuous	0	0	kg/s	6497,2	3824,81		2672,39
2	Continuous	3,09682	0	kg/s	6497,2	3824,84		2672,76
3	Continuous	3,09782	0	kg/s	0	0	0,400541	0,400541
4	Continuous	6,69071	187,463	kg/s	0	0		1,01898
5	Continuous	105,42	166,72	kg/s	0	0		13,8759
6	Continuous	199,864	166,72	kg/s	0	0		9,31707
7	Continuous	340,881	166,72	kg/s	0	0		6,50281
8	Continuous	539,186	166,72	kg/s	0	0		4,76778
9	Continuous	805,703	166,72	kg/s	0	0		3,56785
10	Continuous	1166,8	166,72	kg/s	0	0		2,6591

11	Continuou s	1658,6 2	166,72	kg/s	0	0	1,92
12	Continuou s	2362,7 1	166,72	kg/s	0	0	1,29562
13	Continuou s	3473,3 7	166,72	kg/s	0	0	0,75446

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

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

Obse rver num ber	Time [s]	Down wind distan ce [m]	C/Li ne heig ht [m]	C/Li ne conc [pp m]	Effect ive width [m]	Effec tive dept h [m]	C/Line vapour temper ature [degC]	C/Li ne liqui d fracti on	C/Line liquid temper ature [degC]	Cent roid velo city [m/s]	C/Li ne clou d dens ity [kg/ m3]
1	0	0	5	10.61 0,97	1,9911 9	0,891 101	-52,0196	0,901 516	-52,0196	177,5 97	10,30 92
1	0,01	1,76	4,999 57	10.48 7,96	2,1859 7	0,978 331	-57,1269	0,892 209	-57,1269	174,4 1	8,872 47
1	0,010 8818	1,9136 7	4,999 49	10.47 6,93	2,2019 3	0,985 483	-57,5167	0,891 486	-57,5167	174,1 27	8,773 09
1	0,010 8818	1,9136 7	4,999 49	10.47 6,93	2,2019 2	0,985 482	-57,517	0,891 486	-57,5167	174,1 27	8,773 1
1	0,02	3,4858 7	4,998 26	10.35 9,19	2,4331 5	1,089 24	-52,057	0,882 567	-63,0173	171,1 21	7,440 79
1	0,03	5,178	4,996 15	10.22 6,00	2,6408 9	1,182 71	-50,599	0,875 059	-67,4179	167,7 67	6,571 86
1	0,04	6,8388 6	4,993 34	10.09 1,89	2,8232 6	1,264 98	-50,8788	0,869 027	-70,7734	164,4 4	5,985 52
1	0,05	8,4668 2	4,989 81	9.957 ,99	2,9908 5	1,340 77	-51,9027	0,863 918	-73,469	161,1 66	5,552 39
1	0,06	10,062 6	4,985 59	9.825 ,28	3,1494 1	1,412 67	-53,2015	0,859 379	-75,7562	157,9 67	5,211 99
1	0,07	11,626	4,980	9.694	3,3020	1,482	-54,5375	0,855	-77,7647	154,8	4,933

		8	7	,33	9	07		236		54	22
1	0,08	13,160	4,975	9.565	3,4512	1,550	-55,7343	0,851	-79,576	151,8	4,696
		3	16	,50	5	06		39		34	87
1	0,09	14,663	4,969	9.439	3,5985	1,617	-56,6678	0,847	-81,2427	148,9	4,490
		9	01	,12	9	42		788		12	64
1	0,1	16,138	4,962	9.315	3,7423	1,683	-57,5794	0,844	-82,7382	146,0	4,313
		8	25	,43	1	29		433		88	66
1	0,11	17,586	4,954	9.194	3,8673	1,740	-60,0505	0,841	-83,8373	143,3	4,193
		2	93	,89	7	59		359		72	72
1	0,12	19,006	4,947	9.077	3,9979	1,800	-61,5412	0,838	-84,9684	140,7	4,071
		9	04	,41	4	62		391		56	21
1	0,13	20,402	4,938	8.962	4,1282	1,860	-62,7508	0,835	-86,0613	138,2	3,958
		4	61	,96	8	69		517		39	34
1	0,14	21,773	4,929	8.851	4,2581	1,920	-63,7503	0,832	-87,1092	135,8	3,854
		4	66	,45	2	68		74		14	57
1	0,15	23,120	4,920	8.742	4,3869	1,980	-64,6179	0,830	-88,1033	133,4	3,759
		5	19	,83	6	34		06		79	78
1	0,16	24,445	4,910	8.637	4,5144	2,039	-65,4091	0,827	-89,0463	131,2	3,673
		7	23	,08	5	51		465		29	5
1	0,17	25,749	4,899	8.534	4,6404	2,098	-66,1549	0,824	-89,9382	129,0	3,595
		7	8	,13	4	1		949		63	04
1	0,18	27,032	4,888	8.433	4,7652	2,156	-66,8445	0,822	-90,7789	126,9	3,523
		2	88	,86	6	26		515		74	18
1	0,19	28,293	4,877	8.336	4,8889	2,214	-67,4874	0,820	-91,5741	124,9	3,457
		9	49	,20	8	01		154		59	16
1	0,2	29,536	4,865	8.241	5,0115	2,271	-68,0975	0,817	-92,3344	123,0	3,396
		7	65	,12	9	35		848		17	4
1	0,212	31,001	4,850	8.130	5,1575	2,339	-68,7788	0,815	-93,1906	120,7	3,329
		4	84	,23	5	74		172		74	5
1	0,226	32,725	4,832	8.001	5,3309	2,421	-69,5482	0,812	-94,1501	118,2	3,257
		4		,71	2	14		067		06	01
1	0,243	34,745	4,808	7.853	5,5366	2,517	-70,4137	0,808	-95,2087	115,2	3,179
		68	7	,73	7	94		487		88	69
1	0,264	37,106	4,778	7.684	5,7808	2,633	-71,3847	0,804	-96,3775	112,0	3,098
		416	7	,64		09		353		05	44
1	0,289	39,852	4,740	7.493	6,0705	2,770	-72,4671	0,799	-97,6527	108,3	3,014
		299	2	,10	8	1		597		52	49
1	0,319	43,030	4,692	7.278	6,4148	2,933	-73,6656	0,794	-99,0365	104,3	2,929



	159	4	07	,31	4	27		133		34	25
1	0,354 991	46,690 3	4,629 06	7.040 ,07	6,8247 3	3,128	-74,9747	0,787 881	-100,519	99,97 34	2,844 17
1	0,397 989	50,883	4,547 37	6.779 ,12	7,314	3,360 94	-76,3876	0,780 772	-102,078	95,31	2,760 84
1	0,449 587	55,666 3	4,440 98	6.497 ,20	7,8998 4	3,640 33	-77,895	0,772 747	-103,67	90,40 02	2,680 79
1	0,495 058	59,686 7	4,340 01	6.273 ,56	8,4154 6	3,886 44	-79,1117	0,766 099	-104,84	86,58 68	2,624 17
1	0,495 058	59,686 7	4,340 01	6.273 ,56	8,4154 6	3,886 44	-79,1117	0,766 099	-104,84	86,58 68	2,624 17
1	0,511 504	61,099 6	4,302 77	6.200 ,71	8,6462 1	3,939 34	-79,7433	0,763 774	-105,183	85,29 58	2,609 85
1	0,585 805	67,233 3	4,149 59	5.910 ,36	9,7011 3	4,116 54	-83,396	0,753 609	-106,342	80,00 5	2,572 08
1	0,674 966	74,121	4,004 15	5.623 ,90	10,976	4,286 15	-86,7762	0,742 792	-107,412	74,70 5	2,538 49
1	0,781 959	81,824 9	3,870 07	5.343 ,52	12,510 4	4,457 88	-89,394	0,731 494	-108,514	69,49 75	2,502 06
1	0,910 351	90,408 5	3,740 89	5.068 ,36	14,356 8	4,632 54	-91,5376	0,719 528	-109,624	64,40 06	2,465 46
1	1,064 42	99,932 7	3,605 64	4.798 ,80	16,579 1	4,810 23	-93,4987	0,706 683	-110,697	59,43 85	2,431 89
1	1,249 31	110,46	3,450 99	4.535 ,49	19,254 3	4,997 6	-95,4354	0,692 768	-111,704	54,63 69	2,402 88
1	1,471 17	122,04 9	3,263 98	4.279 ,76	22,473 9	5,206 15	-97,3742	0,677 671	-112,64	50,02 45	2,378 46
1	1,737 4	134,75 5	3,031 25	4.033 ,32	26,348 2	5,449 72	-99,2969	0,661 338	-113,502	45,63 18	2,358 2
1	2,056 88	148,63 4	2,736 59	3.797 ,81	31,008 9	5,745 71	-101,183	0,643 746	-114,292	41,48 73	2,341 63
1	2,440 26	163,75 1	2,359 82	3.574 ,77	36,613 2	6,115 51	-103,015	0,624 909	-115,006	37,61 76	2,328 35
1	2,900 31	180,17 5	1,874 63	3.365 ,59	43,347 1	6,584 38	-104,781	0,604 881	-115,643	34,04 76	2,318 02
1	3,316 2	193,78 2	1,405 43	3.214 ,38	49,434 9	7,033 97	-106,086	0,588 686	-116,083	31,51 42	2,311 77
1	3,316	193,78	1,405	1.609	49,434	6,994	-106,086	0		31,65	2,020

	2	2	43	,07	9	82				27	98
1	3,452	198,03	1,252	1.582	51,129	7,371	-103,242	0		30,83	1,988
	37	3	21	,08	1	27				35	05
1	4,114	217,32	0,545	1.474	59,483	8,931	-91,8067	0		27,64	1,866
	84	9	928	,30	6	27				4	7
1	4,601	230,32	0,01	1.411	65,673	9,928	-85,1226	0		25,87	1,803
	58	8		,84	1	37				3	01
1	4,601	230,32	0	1.411	65,673	9,945	-85,1224	0		25,85	1,803
	58	8		,84	1	72				39	
1	4,909	238,14	0	1.379	69,608	10,17	-81,6153	0		24,86	1,771
	81	4		,25	2	59				94	39
1	5,863	260,65	0	1.292	81,730	10,81	-72,197	0		22,34	1,692
	77	9		,27	9	1				59	17
1	7,008	284,95	0	1.208	96,134	11,44	-63,0632	0		20,06	1,622
	53	8		,74	1	9				56	36
1	8,382	311,1	0	1.129	113,15	12,07	-54,2808	0		18,02	1,560
	23			,22	4	96				89	89
1	10,03	339,21	0	1.054	133,12	12,69	-45,9058	0		16,22	1,506
	07	2		,03	9	83				21	78
1	12,00	369,63	0	983,1	156,4	13,31	-37,9935	0		14,61	1,459
	88	4		1		69				41	25
1	14,38	402,57	0	916,7	183,34	13,91	-30,6439	0		13,19	1,417
	26	8		4	9	99				4	88
1	17,23	438,34	0	854,9	214,38	14,49	-23,9417	0		11,94	1,382
	11	6		3	6	58				45	26
1	20,64	477,26	0	797,7	249,95	15,02	-17,9608	0		10,85	1,351
	93	8		3	1	74				01	98
1	24,75	519,85	0	744,9	290,58	15,50	-12,7201	0		9,889	1,326
	12	1		8		64				33	5
1	29,67	566,47	0	696,7	336,82	15,90	-8,20286	0		9,051	1,305
	34	8		5	7	78				59	23
1	35,58	617,75	0	652,9	388,96	16,21	-4,33057	0		8,321	1,287
	01	6		5	2	83				82	42
1	42,66	674,37	0	613,4	447,53	16,42	-1,00222	0		7,686	1,272
	81	7		3	4	61				79	35
1	51,17	737,36	0	575,9	513,46	16,59	1,905	0		7,128	1,259
	37	4		4	4	25				86	4
1	61,38	807,68	0	530,7	587,40	17,04	5,15676	0		6,653	1,245

	05	1		6	8	04				41	24
1	73,62 86	886,81 5	0	476,3 7	670,04 1	17,83 49	8,40901	0		6,280 52	1,231 51
1	74,79 47	894,12 3	0	471,3 9	677,60 2	17,91 78	8,67949	0		6,253 23	1,230 39
1	74,79 47	894,12 3	0	471,3 9	677,60 2	17,91 74	8,67949	0		6,253 36	1,230 39
1	88,32 63	977,95 9	0	419,3 9	684,33	20,47 23	11,265	0		6,152 86	1,219 8
1	105,9 64	1086,2	0	365,0 0	692,92 1	23,51 28	13,5761	0		6,135 17	1,210 62
1	127,1 28	1216,5 2	0	313,5 7	703,14 4	26,92 76	15,4507	0		6,191 66	1,203 42
1	152,5 26	1375,1 7	0	265,7 2	715,43 4	30,84 84	16,9653	0		6,307 22	1,197 82
1	168,9 56	1479,5	0	240,6 9	723,43 6	33,32 12	17,6799	0		6,394 05	1,195 26
1	183,0 03	1569,9 9	0	222,1 1	730,32 2	35,41 16	18,1769	0		6,472 06	1,193 51
1	211,9 41	1759,6 5	0	190,5 2	744,63 1	39,63 43	18,9661	0		6,633 88	1,190 82
1	211,9 41	1759,6 5	0	190,5 2	744,63 1	39,63 43	18,9661	0		6,633 88	1,190 82
1	219,5 76	1810,5 2	0	183,3 4	748,43 9	40,74 45	19,1348	0		6,676 86	1,190 26
1	263,4 63	2109,1 3	0	148,5 9	770,57 3	47,23 71	19,8944	0		6,925 06	1,187 83
1	316,1 27	2481,8 6	0	117,2 3	797,73 3	55,68 65	21,4133	0		7,232 18	1,182 8
1	343,3 99	2681,3 2	0	104,0 2	812,07 3	60,43 24	22,063	0		7,394 83	1,180 73
1	343,4 66	2681,8 1	0	103,9 9	812,10 8	60,44 43	22,0644	0		7,395 23	1,180 72
2	3,096 82	0	5	10.61 0,97	1,9911 9	0,891 101	-52,0196	0,901 516	-52,0196	177,5 97	10,30 92
2	3,106 82	1,76	4,999 57	10.48 7,96	2,1859 7	0,978 331	-57,1269	0,892 209	-57,1269	174,4 1	8,872 47



2	3,107 7	1,9136 7	4,999 49	10.47 6,93	2,2019 3	0,985 483	-57,5167	0,891 486	-57,5167	174,1 27	8,773 09
2	3,107 7	1,9136 7	4,999 49	10.47 6,93	2,2019 2	0,985 482	-57,517	0,891 486	-57,5167	174,1 27	8,773 1
2	3,116 82	3,4858 7	4,998 26	10.35 9,19	2,4331 5	1,089 24	-52,057	0,882 567	-63,0173	171,1 21	7,440 79
2	3,126 82	5,178	4,996 15	10.22 6,00	2,6408 9	1,182 71	-50,599	0,875 059	-67,4179	167,7 67	6,571 86
2	3,136 82	6,8388 6	4,993 34	10.09 1,89	2,8232 6	1,264 98	-50,8788	0,869 027	-70,7734	164,4 4	5,985 52
2	3,146 82	8,4668 2	4,989 81	9.957 ,99	2,9908 5	1,340 77	-51,9027	0,863 918	-73,469	161,1 66	5,552 39
2	3,156 82	10,062 6	4,985 59	9.825 ,28	3,1494 1	1,412 67	-53,2015	0,859 379	-75,7562	157,9 67	5,211 99
2	3,166 82	11,626 8	4,980 7	9.694 ,33	3,3020 9	1,482 07	-54,5375	0,855 236	-77,7647	154,8 54	4,933 22
2	3,176 82	13,160 3	4,975 16	9.565 ,50	3,4512 5	1,550 06	-55,7343	0,851 39	-79,576	151,8 34	4,696 87
2	3,186 82	14,663 9	4,969 01	9.439 ,12	3,5985 9	1,617 42	-56,6678	0,847 788	-81,2427	148,9 12	4,490 64
2	3,196 82	16,138 8	4,962 25	9.315 ,43	3,7423 1	1,683 29	-57,5794	0,844 433	-82,7382	146,0 88	4,313 66
2	3,206 82	17,586 2	4,954 93	9.194 ,89	3,8673 7	1,740 59	-60,0505	0,841 359	-83,8373	143,3 72	4,193 72
2	3,216 82	19,006 9	4,947 04	9.077 ,41	3,9979 4	1,800 62	-61,5412	0,838 391	-84,9684	140,7 56	4,071 21
2	3,226 82	20,402 4	4,938 61	8.962 ,96	4,1282 8	1,860 69	-62,7508	0,835 517	-86,0613	138,2 39	3,958 34
2	3,236 82	21,773 4	4,929 66	8.851 ,45	4,2581 2	1,920 68	-63,7503	0,832 74	-87,1092	135,8 14	3,854 57
2	3,246 82	23,120 5	4,920 19	8.742 ,83	4,3869 6	1,980 34	-64,6179	0,830 06	-88,1033	133,4 79	3,759 78
2	3,256 82	24,445 7	4,910 23	8.637 ,08	4,5144 5	2,039 51	-65,4091	0,827 465	-89,0463	131,2 29	3,673 5
2	3,266 82	25,749 7	4,899 8	8.534 ,13	4,6404 4	2,098 1	-66,1549	0,824 949	-89,9382	129,0 63	3,595 04
2	3,276 82	27,032 2	4,888 88	8.433 ,86	4,7652 6	2,156 26	-66,8445	0,822 515	-90,7789	126,9 74	3,523 18

2	3,286 82	28,293 9	4,877 49	8.336 ,20	4,8889 8	2,214 01	-67,4874	0,820 154	-91,5741	124,9 59	3,457 16
2	3,296 82	29,536 7	4,865 65	8.241 ,12	5,0115 9	2,271 35	-68,0975	0,817 848	-92,3344	123,0 17	3,396 4
2	3,308 82	31,001 4	4,850 84	8.130 ,23	5,1575 5	2,339 74	-68,7788	0,815 172	-93,1906	120,7 74	3,329 5
2	3,323 22	32,725	4,832 24	8.001 ,71	5,3309 2	2,421 14	-69,5482	0,812 067	-94,1501	118,2 06	3,257 01
2	3,340 5	34,745 7	4,808 75	7.853 ,73	5,5366 7	2,517 94	-70,4137	0,808 487	-95,2087	115,2 88	3,179 69
2	3,361 23	37,106 7	4,778 94	7.684 ,64	5,7808	2,633 09	-71,3847	0,804 353	-96,3775	112,0 05	3,098 44
2	3,386 12	39,852 2	4,740 89	7.493 ,10	6,0705 8	2,770 1	-72,4671	0,799 597	-97,6527	108,3 52	3,014 49
2	3,415 97	43,030 4	4,692 07	7.278 ,31	6,4148 4	2,933 27	-73,6656	0,794 133	-99,0365	104,3 34	2,929 25
2	3,451 81	46,690 3	4,629 06	7.040 ,07	6,8247 3	3,128	-74,9747	0,787 881	-100,519	99,97 34	2,844 17
2	3,494 8	50,883	4,547 37	6.779 ,12	7,314	3,360 94	-76,3876	0,780 772	-102,078	95,31	2,760 84
2	3,546 4	55,666 3	4,440 98	6.497 ,20	7,8998 4	3,640 33	-77,895	0,772 747	-103,67	90,40 02	2,680 79
2	3,591 87	59,686 7	4,340 01	6.273 ,56	8,4154 6	3,886 44	-79,1117	0,766 099	-104,84	86,58 68	2,624 17
2	3,591 87	59,686 7	4,340 01	6.273 ,56	8,4154 6	3,886 44	-79,1117	0,766 099	-104,84	86,58 68	2,624 17
2	3,608 32	61,099 6	4,302 77	6.200 ,71	8,6462 1	3,939 34	-79,7433	0,763 774	-105,183	85,29 58	2,609 85
2	3,682 62	67,233 3	4,149 59	5.910 ,36	9,7011 3	4,116 54	-83,396	0,753 609	-106,342	80,00 5	2,572 08
2	3,771 78	74,121	4,004 15	5.623 ,90	10,976	4,286 15	-86,7762	0,742 792	-107,412	74,70 5	2,538 49
2	3,878 78	81,824 9	3,870 07	5.343 ,52	12,510 4	4,457 88	-89,394	0,731 494	-108,514	69,49 75	2,502 06
2	4,007 17	90,408 5	3,740 89	5.068 ,36	14,356 8	4,632 54	-91,5376	0,719 528	-109,624	64,40 06	2,465 46
2	4,161 24	99,932 7	3,605 64	4.798 ,80	16,579 1	4,810 23	-93,4987	0,706 683	-110,697	59,43 85	2,431 89



2	4,346 12	110,46	3,450 99	4.535 ,49	19,254 3	4,997 6	-95,4354	0,692 768	-111,704	54,63 69	2,402 88
2	4,567 98	122,04 9	3,263 98	4.279 ,76	22,473 9	5,206 15	-97,3742	0,677 671	-112,64	50,02 45	2,378 46
2	4,834 22	134,75 5	3,031 25	4.033 ,32	26,348 2	5,449 72	-99,2969	0,661 338	-113,502	45,63 18	2,358 2
2	5,153 7	148,63 4	2,736 59	3.797 ,81	31,008 9	5,745 71	-101,183	0,643 746	-114,292	41,48 73	2,341 63
2	5,537 07	163,75 1	2,359 82	3.574 ,77	36,613 2	6,115 51	-103,015	0,624 909	-115,006	37,61 76	2,328 35
2	5,997 12	180,17 5	1,874 63	3.365 ,59	43,347 1	6,584 38	-104,781	0,604 881	-115,643	34,04 76	2,318 02
2	6,235 43	188,10 2	1,609 3	3.275 ,28	46,835 8	6,839 29	-105,559	0,595 398	-115,908	32,52 91	2,314 18
2	6,235 43	188,10 2	1,609 3	3.275 ,28	46,835 8	6,839 29	-105,559	0,595 398	-115,908	32,52 91	2,314 18
2	6,413 02	193,78 3	1,405 44	3.214 ,45	49,435 8	7,033 05	-106,104	0,588 674	-116,08	31,51 38	2,312 02
2	6,413 02	193,78 3	1,405 44	1.609 ,15	49,435 8	6,993 9	-106,104	0		31,65 23	2,021 2
2	6,549 18	198,03 4	1,252 35	1.582 ,26	51,130 7	7,369 42	-103,275	0		30,83 29	1,988 43
2	6,613 29	199,99 7	1,182 78	1.570 ,28	51,932 3	7,537 03	-102,012	0		30,47 06	1,974 17
2	6,613 29	199,99 7	1,182 78	1.570 ,28	51,932 3	7,537 03	-102,012	0		30,47 06	1,974 17
2	7,211 66	217,33	0,545 782	1.474 ,47	59,485 4	8,929 71	-91,8407	0		27,64 33	1,867 05
2	7,698 21	230,32 3	0,01	1.412 ,05	65,673 1	9,926 06	-85,1594	0		25,87 35	1,803 35
2	7,698 21	230,32 3	0	1.412 ,05	65,673 1	9,943 47	-85,1591	0		25,85 43	1,803 35
2	8,006 63	238,14 4	0	1.379 ,44	69,610 6	10,17 38	-81,6492	0		24,86 92	1,771 7
2	8,960 59	260,65 9	0	1.292 ,45	81,733 7	10,80 9	-72,2289	0		22,34 56	1,692 43
2	10,10 53	284,95 8	0	1.208 ,91	96,137 7	11,44 71	-63,093	0		20,06 53	1,622 59

2	11,479	311,099	0	1.129,38	113,159	12,0777	-54,3085	0		18,0285	1,56108
2	13,1275	339,210	0	1.054,18	133,136	12,6965	-45,9314	0		16,2217	1,50694
2	15,1056	369,631	0	983,25	156,409	13,3151	-38,0167	0		14,6136	1,45938
2	17,4794	402,574	0	916,87	183,361	13,9181	-30,6645	0		13,1936	1,41799
2	20,3279	438,341	0	855,07	214,402	14,4941	-23,9597	0		11,944	1,38235
2	23,7461	477,261	0	797,86	249,972	15,0257	-17,976	0		10,8497	1,35206
2	27,848	519,842	0	745,10	290,606	15,5048	-12,7328	0		9,8888	1,32657
2	32,7702	566,468	0	696,88	336,859	15,9063	-8,2132	0		9,0516	1,30528
2	38,6769	617,744	0	653,07	388,997	16,2169	-4,33894	0		8,32142	1,28746
2	45,7649	674,362	0	613,55	447,573	16,4247	-1,009	0		7,68642	1,27238
2	54,2706	737,346	0	576,06	513,506	16,5909	1,89908	0		7,12852	1,25943
2	64,4773	807,660	0	530,88	587,454	17,0388	5,15215	0		6,6531	1,24526
2	76,7254	886,792	0	476,42	670,092	17,8372	8,40744	0		6,27958	1,23152
2	77,8987	894,144	0	471,39	677,697	17,9193	8,6795	0		6,25254	1,23039
2	77,8987	894,144	0	471,39	677,697	17,9194	8,6795	0		6,2525	1,23039
2	91,4231	977,927	0	419,43	684,422	20,4722	11,2637	0		6,15229	1,21981
2	109,06	1086,16	0	365,02	693,012	23,5122	13,5752	0		6,13474	1,21063
2	130,225	1216,47	0	313,58	703,234	26,9265	15,45	0		6,19134	1,20342
2	155,623	1375,11	0	265,73	715,524	30,8471	16,9649	0		6,30697	1,19782



2	172,064	1479,52	0	240,69	723,531	33,3216	17,68	0		6,3939	1,19525
2	186,1	1569,92	0	222,11	730,411	35,4101	18,1766	0		6,47187	1,19352
2	215,043	1759,62	0	190,52	744,723	39,6336	18,966	0		6,63375	1,19082
2	215,043	1759,62	0	190,52	744,723	39,6336	18,966	0		6,63375	1,19082
2	222,673	1810,45	0	183,34	748,527	40,743	19,1347	0		6,67671	1,19026
2	266,56	2109,06	0	148,58	770,662	47,2356	19,8943	0		6,92494	1,18783
2	319,224	2481,78	0	117,22	797,821	55,685	21,4131	0		7,23209	1,1828
2	346,511	2681,34	0	104,01	812,169	60,4336	22,0632	0		7,39484	1,18073
3	3,09782	0	5	1,59	1,99119	0,891101	-52,0196	0,901516	-52,0196	177,597	10,3092
3	3,10782	1,76	4,99957	1,57	2,18597	0,978331	-57,1269	0,892209	-57,1269	174,41	8,87247
3	3,1087	1,91367	4,99949	1,57	2,20193	0,985483	-57,5167	0,891486	-57,5167	174,127	8,77309
3	3,1087	1,91367	4,99949	1,57	2,20192	0,985482	-57,517	0,891486	-57,5167	174,127	8,7731
3	3,11782	3,48587	4,99826	1,55	2,43315	1,08924	-52,057	0,882567	-63,0173	171,121	7,44079
3	3,12782	5,178	4,99615	1,53	2,64089	1,18271	-50,599	0,875059	-67,4179	167,767	6,57186
3	3,13782	6,83886	4,99334	1,51	2,82326	1,26498	-50,8788	0,869027	-70,7734	164,44	5,98552
3	3,14782	8,46682	4,98981	1,49	2,99085	1,34077	-51,9027	0,863918	-73,469	161,166	5,55239
3	3,15782	10,0626	4,98559	1,47	3,14941	1,41267	-53,2015	0,859379	-75,7562	157,967	5,21199
3	3,16782	11,6268	4,9807	1,45	3,30209	1,48207	-54,5375	0,855236	-77,7647	154,854	4,93322
3	3,177	13,160	4,975	1,43	3,4512	1,550	-55,7343	0,851	-79,576	151,8	4,696

	82	3	16		5	06		39		34	87
3	3,187	14,663	4,969	1,41	3,5985	1,617	-56,6678	0,847	-81,2427	148,9	4,490
	82	9	01		9	42		788		12	64
3	3,197	16,138	4,962	1,40	3,7423	1,683	-57,5794	0,844	-82,7382	146,0	4,313
	82	8	25		1	29		433		88	66
3	3,207	17,586	4,954	1,38	3,8673	1,740	-60,0505	0,841	-83,8373	143,3	4,193
	82	2	93		7	59		359		72	72
3	3,217	19,006	4,947	1,36	3,9979	1,800	-61,5412	0,838	-84,9684	140,7	4,071
	82	9	04		4	62		391		56	21
3	3,227	20,402	4,938	1,34	4,1282	1,860	-62,7508	0,835	-86,0613	138,2	3,958
	82	4	61		8	69		517		39	34
3	3,237	21,773	4,929	1,33	4,2581	1,920	-63,7503	0,832	-87,1092	135,8	3,854
	82	4	66		2	68		74		14	57
3	3,247	23,120	4,920	1,31	4,3869	1,980	-64,6179	0,830	-88,1033	133,4	3,759
	82	5	19		6	34		06		79	78
3	3,257	24,445	4,910	1,29	4,5144	2,039	-65,4091	0,827	-89,0463	131,2	3,673
	82	7	23		5	51		465		29	5
3	3,267	25,749	4,899	1,28	4,6404	2,098	-66,1549	0,824	-89,9382	129,0	3,595
	82	7	8		4	1		949		63	04
3	3,277	27,032	4,888	1,26	4,7652	2,156	-66,8445	0,822	-90,7789	126,9	3,523
	82	2	88		6	26		515		74	18
3	3,287	28,293	4,877	1,25	4,8889	2,214	-67,4874	0,820	-91,5741	124,9	3,457
	82	9	49		8	01		154		59	16
3	3,297	29,536	4,865	1,24	5,0115	2,271	-68,0975	0,817	-92,3344	123,0	3,396
	82	7	65		9	35		848		17	4
3	3,309	31,001	4,850	1,22	5,1575	2,339	-68,7788	0,815	-93,1906	120,7	3,329
	82	4	84		5	74		172		74	5
3	3,324	32,725	4,832	1,20	5,3309	2,421	-69,5482	0,812	-94,1501	118,2	3,257
	22		24		2	14		067		06	01
3	3,341	34,745	4,808	1,18	5,5366	2,517	-70,4137	0,808	-95,2087	115,2	3,179
	5	7	75		7	94		487		88	69
3	3,362	37,106	4,778	1,15	5,7808	2,633	-71,3847	0,804	-96,3775	112,0	3,098
	23	7	94			09		353		05	44
3	3,387	39,852	4,740	1,12	6,0705	2,770	-72,4671	0,799	-97,6527	108,3	3,014
	12	2	89		8	1		597		52	49
3	3,416	43,030	4,692	1,09	6,4148	2,933	-73,6656	0,794	-99,0365	104,3	2,929
	97	4	07		4	27		133		34	25
3	3,452	46,690	4,629	1,06	6,8247	3,128	-74,9747	0,787	-100,519	99,97	2,844

	81	3	06		3			881		34	17
3	3,495 8	50,883	4,547 37	1,02	7,314	3,360 94	-76,3876	0,780 772	-102,078	95,31	2,760 84
3	3,547 4	55,666 3	4,440 98	0,97	7,8998 4	3,640 33	-77,895	0,772 747	-103,67	90,40 02	2,680 79
3	3,592 87	59,686 7	4,340 01	0,94	8,4154 6	3,886 44	-79,1117	0,766 099	-104,84	86,58 68	2,624 17
3	3,592 87	59,686 7	4,340 01	0,94	8,4154 6	3,886 44	-79,1117	0,766 099	-104,84	86,58 68	2,624 17
3	3,609 32	61,099 6	4,302 77	0,93	8,6462 1	3,939 34	-79,7433	0,763 774	-105,183	85,29 58	2,609 85
3	3,683 62	67,233 3	4,149 59	0,89	9,7011 3	4,116 54	-83,396	0,753 609	-106,342	80,00 5	2,572 08
3	3,772 78	74,121	4,004 15	0,84	10,976	4,286 15	-86,7762	0,742 792	-107,412	74,70 5	2,538 49
3	3,879 78	81,824 9	3,870 07	0,80	12,510 4	4,457 88	-89,394	0,731 494	-108,514	69,49 75	2,502 06
3	4,008 17	90,408 5	3,740 89	0,76	14,356 8	4,632 54	-91,5376	0,719 528	-109,624	64,40 06	2,465 46
3	4,162 24	99,932 7	3,605 64	0,72	16,579 1	4,810 23	-93,4987	0,706 683	-110,697	59,43 85	2,431 89
3	4,347 12	110,46	3,450 99	0,68	19,254 3	4,997 6	-95,4354	0,692 768	-111,704	54,63 69	2,402 88
3	4,568 98	122,04 9	3,263 98	0,64	22,473 9	5,206 15	-97,3742	0,677 671	-112,64	50,02 45	2,378 46
3	4,835 22	134,75 5	3,031 25	0,60	26,348 2	5,449 72	-99,2969	0,661 338	-113,502	45,63 18	2,358 2
3	5,154 7	148,63 4	2,736 59	0,57	31,008 9	5,745 71	-101,183	0,643 746	-114,292	41,48 73	2,341 63
3	5,538 07	163,75 1	2,359 82	0,54	36,613 2	6,115 51	-103,015	0,624 909	-115,006	37,61 76	2,328 35
3	5,998 12	180,17 5	1,874 63	0,50	43,347 1	6,584 38	-104,781	0,604 881	-115,643	34,04 76	2,318 02
3	6,236 43	188,10 2	1,609 3	0,49	46,835 8	6,839 29	-105,559	0,595 398	-115,908	32,52 91	2,314 18
3	6,236 43	188,10 2	1,609 3	0,49	46,835 8	6,839 29	-105,559	0,595 398	-115,908	32,52 91	2,314 18
3	6,414	193,78	1,405	0,48	49,435	7,033	-106,104	0,588	-116,08	31,51	2,312

	02	3	44		8	05	674		38	02
3	6,414	193,78	1,405	0,24	49,435	6,993	-106,104	0	31,65	2,021
	02	3	44		8	9			23	2
3	6,550	198,03	1,252	0,24	51,130	7,369	-103,275	0	30,83	1,988
	18	4	35		7	42			29	43
3	6,614	199,99	1,182	0,24	51,932	7,537	-102,012	0	30,47	1,974
	29	7	78		3	03			06	17
3	6,614	199,99	1,182	0,24	51,932	7,537	-102,012	0	30,47	1,974
	29	7	78		3	03			06	17
3	7,212	217,33	0,545	0,22	59,485	8,929	-91,840	0	27,64	1,867
	66		782		4	71			33	05
3	7,699	230,32	0,01	0,17	65,673	9,926	-85,159	0	25,87	1,803
	21	3			1	06			35	35
3	7,699	230,32	0	0,17	65,673	9,943	-85,159	0	25,85	1,803
	21	3			1	47			43	35
3	8,007	238,14	0	0,15	69,610	10,17	-81,649	0	24,86	1,771
	63	4			6	38			92	7
3	8,961	260,65	0	0,10	81,733	10,80	-72,228	0	22,34	1,692
	59	9			7	9			56	43
3	10,10	284,95	0	0,08	96,137	11,44	-63,093	0	20,06	1,622
	63	8			7	71			53	59
3	11,48	311,09	0	0,06	113,15	12,07	-54,308	0	18,02	1,561
		9			9	77			85	08
3	13,12	339,21	0	0,05	133,13	12,69	-45,931	0	16,22	1,506
	85				6	65			17	94
3	15,10	369,63	0	0,04	156,40	13,31	-38,016	0	14,61	1,459
	66	1			9	51			36	38
3	17,48	402,57	0	0,04	183,36	13,91	-30,664	0	13,19	1,417
	04	4			1	81			36	99
3	20,32	438,34	0	0,04	214,40	14,49	-23,959	0	11,94	1,382
	89	1			2	41			4	35
3	23,74	477,26	0	0,03	249,97	15,02	-17,976	0	10,84	1,352
	71	1			2	57			97	06
3	27,84	519,84	0	0,03	290,60	15,50	-12,732	0	9,888	1,326
	9	2			6	48			88	57
3	32,77	566,46	0	0,03	336,85	15,90	-8,213	0	9,051	1,305
	12	8			9	63			16	28
3	38,67	617,74	0	0,03	388,99	16,21	-4,338	0	8,321	1,287



	79	4			7	69				42	46
3	45,76 59	674,36 2	0	0,03	447,57 3	16,42 47	-1,009	0		7,686 42	1,272 38
3	54,27 16	737,34 6	0	0,02	513,50 6	16,59 09	1,89908	0		7,128 52	1,259 43
3	64,47 83	807,66	0	0,02	587,45 4	17,03 88	5,15215	0		6,653 1	1,245 26
3	76,72 64	886,79 2	0	0,02	670,09	17,83 72	8,40744	0		6,279 58	1,231 52
3	77,89 97	894,14 4	0	0,02	677,69 7	17,91 93	8,6795	0		6,252 54	1,230 39
3	77,89 97	894,14 4	0	0,02	677,69 7	17,91 94	8,6795	0		6,252 5	1,230 39
3	91,42 41	977,92 7	0	0,02	684,42 2	20,47 22	11,2637	0		6,152 29	1,219 81
3	109,0 61	1086,1 6	0	0,01	693,01 2	23,51 22	13,5752	0		6,134 74	1,210 63
3	130,2 26	1216,4 7	0	0,01	703,23 4	26,92 65	15,45	0		6,191 34	1,203 42
3	155,6 24	1375,1 1	0	0,01	715,52 4	30,84 71	16,9649	0		6,306 97	1,197 82
3	172,0 65	1479,5 2	0	0,01	723,53 1	33,32 16	17,68	0		6,393 9	1,195 25
3	186,1 01	1569,9 2	0	0,01	730,41 1	35,41 01	18,1766	0		6,471 87	1,193 52
3	215,0 44	1759,6 2	0	0,01	744,72 3	39,63 36	18,966	0		6,633 75	1,190 82
3	215,0 44	1759,6 2	0	0,01	744,72 3	39,63 36	18,966	0		6,633 75	1,190 82
3	222,6 74	1810,4 5	0	0,01	748,52 7	40,74 3	19,1347	0		6,676 71	1,190 26
3	266,5 61	2109,0 6	0	0,01	770,66 2	47,23 56	19,8943	0		6,924 94	1,187 83
3	319,2 25	2481,7 8	0	0,00	797,82 1	55,68 5	21,4131	0		7,232 09	1,182 8
3	346,5 12	2681,3 4	0	0,00	812,16 9	60,43 36	22,0632	0		7,394 84	1,180 73



4	6,690 71	187,46 3	0	16,90	0,0017 7245	0,186 368	24,7356	0	2,582 08	1,173 6
4	6,790 71	187,72	0	201,9 9	3,3317 1	0,018 7426	-23,3761	0	2,570 98	1,410 88
4	6,890 71	187,97 7	0	201,2 4	4,7047 8	0,037 4678	-23,3766	0	2,571 06	1,410 92
4	6,990 71	188,23 4	0	200,4 8	5,7546	0,056 2364	-23,3625	0	2,571 11	1,410 88
4	7,090 71	188,49 1	0	199,6 8	6,6384 2	0,074 9965	-23,3459	0	2,571 17	1,410 82
4	7,190 71	188,74 8	0	198,8 7	7,4149 5	0,093 7519	-23,3286	0	2,571 24	1,410 76
4	7,290 71	189,00 5	0	198,0 5	8,1153 3	0,112 505	-23,3109	0	2,571 3	1,410 7
4	7,390 71	189,26 3	0	197,2 4	8,7562 8	0,131 3	-23,293	0	2,571 36	1,410 64
4	7,490 71	189,52	0	196,4 3	9,3498 6	0,150 14	-23,2751	0	2,571 42	1,410 57
4	7,590 71	189,77 7	0	195,6 3	9,9047 2	0,169 026	-23,2571	0	2,571 48	1,410 51
4	7,690 71	190,03 4	0	194,8 4	10,427 5	0,187 939	-23,239	0	2,571 54	1,410 44
4	7,790 71	190,29 1	0	194,0 5	10,924 2	0,206 841	-23,2207	0	2,571 6	1,410 38
4	7,890 71	190,54 8	0	193,2 5	11,399 1	0,225 71	-23,2022	0	2,571 66	1,410 31
4	7,990 71	190,80 5	0	192,4 6	11,854 4	0,244 567	-23,1836	0	2,571 72	1,410 24
4	8,090 71	191,06 3	0	191,6 6	12,290 5	0,263 456	-23,1647	0	2,571 78	1,410 17
4	8,190 71	191,32 7	0	190,8 5	12,708	0,282 409	-23,1458	0	2,571 84	1,410 11
4	8,290 71	191,57 7	0	190,0 5	13,108 8	0,301 42	-23,1267	0	2,571 9	1,410 03
4	8,390 71	191,83 4	0	189,2 5	13,495	0,320 466	-23,1074	0	2,571 96	1,409 96
4	8,490 71	192,09 1	0	188,4 5	13,868 6	0,339 531	-23,0881	0	2,572 02	1,409 89



4	8,590 71	192,34 9	0	187,6 5	14,231 3	0,358 59	-23,0687	0		2,572 08	1,409 82
4	8,690 71	192,60 6	0	186,8 5	14,583 3	0,377 657	-23,049	0		2,572 14	1,409 75
4	8,810 71	192,91 4	0	185,8 8	14,992 7	0,400 557	-23,0253	0		2,572 21	1,409 66
4	8,954 71	193,28 5	0	184,7 1	15,467	0,428 083	-22,9712	0		2,572 3	1,409 41
4	9,127 51	193,72 9	0	183,3 0	16,012 9	0,461 264	-22,8627	0		2,572 41	1,408 86
4	9,334 87	194,26 3	0	181,5 8	16,637	0,501 536	-22,5741	0		2,572 54	1,407 3
4	9,583 7	194,90 3	0	179,5 0	17,344 4	0,550 572	-22,0555	0		2,572 7	1,404 45
4	9,882 3	195,67 1	0	176,9 8	18,139 1	0,610 525	-21,2265	0		2,572 89	1,399 89
4	10,24 06	196,59 3	0	173,8 9	19,026 2	0,683 951	-20,0226	0		2,573 13	1,393 28
4	10,67 06	197,7	0	170,0 4	20,067 9	0,772 104	-18,359	0		2,573 43	1,384 2
4	11,18 66	199,02 8	0	165,0 6	21,362 1	0,875 663	-16,0715	0		2,573 84	1,371 87
4	11,80 58	200,62 1	0	158,3 4	22,974	0,997 724	-12,9649	0		2,574 4	1,355 39
4	12,54 88	202,53 4	0	149,0 2	24,948 9	1,143 82	-8,86031	0		2,575 21	1,334 04
4	13,44 04	204,83 1	0	135,5 5	27,318 9	1,322 28	-3,55011	0		2,576 39	1,307 04
4	14,04 02	206,37 7	0	123,8 2	28,894 3	1,446 19	0,31553	0		2,577 5	1,287 68
4	14,04 02	206,37 7	0	123,8 2	28,894 3	1,446 19	0,31553	0		2,577 5	1,287 68
4	14,51 03	207,58 9	0	112,4 7	30,080 7	1,550 4	3,89622	0		2,578 57	1,270 09
4	15,79 42	210,95 8	0	88,39	33,093 1	1,773 61	10,0298	0		2,671 83	1,240 35
4	17,33 49	215,16	0	68,36	36,377 9	2,037	13,9865	0		2,781 17	1,221 3



4	19,18 38	220,41 4	0	52,12 9	40,004 51	2,355 51	16,6136	0		2,900 08	1,208 68
4	19,33 24	220,84 6	0	51,07 8	40,285 8	2,381 17	16,7678	0		2,909 13	1,207 94
4	21,40 24	226,99 3	0	38,71 8	44,077 17	2,738 17	18,3902	0		3,028 36	1,200 16
4	24,06 47	235,24 1	0	28,33 7	48,724 7	3,195 01	19,6027	0		3,165 6	1,194 35
4	26,46 99	242,99 1	0	22,11 5	52,792 5	3,604 66	20,3644	0		3,277 06	1,190 82
4	26,46 99	242,99 1	0	22,11 5	52,792 5	3,604 56	20,3644	0		3,277 15	1,190 82
4	27,25 95	245,59 6	0	20,49 4	54,063 4	3,744 09	20,9056	0		3,313 07	1,188 69
4	31,09 33	258,62	0	14,69 4	59,432 4	4,439 39	22,6236	0		3,479 1	1,182 02
4	35,69 38	275,05 5	0	10,48 1	64,506 1	5,310 63	23,6241	0		3,662 72	1,178 2
4	41,21 44	295,83 7	0	7,45 8	69,294 8	6,392 62	24,2031	0		3,862 95	1,176 03
4	47,83 91	322,15 9	0	5,28 6	73,826 6	7,732 85	24,5371	0		4,079 72	1,174 8
4	55,78 88	355,53 8	0	3,73 7	78,190 7	9,393 28	24,7304	0		4,314 12	1,174 1
4	65,32 84	397,91 9	0	2,62 9	82,574 9	11,45 92	24,843	0		4,567 44	1,173 71
4	66,00 27	401,00 4	0	2,56 1	82,864 1	11,60 82	24,8484	0		4,584 42	1,173 69
5	105,4 2	166,72	0	16,90	0,0017 7245	0,186 399	24,7857	0		2,582 08	1,173 4
5	105,5 2	166,97 7	0	354,4 7	5,5860 2	0,019 982	-11,1724	0		2,562 35	1,336 66
5	105,6 2	167,23 3	0	354,1 2	7,9061 9	0,039 8903	-11,1819	0		2,562 41	1,336 72
5	105,7 2	167,48 9	0	353,5 0	9,6859 3	0,059 8133	-11,184	0		2,562 46	1,336 76
5	105,8	167,74	0	352,8	11,190	0,079	-11,1853	0		2,562	1,336

	2	5		5	2	7122				51	8
5	105,9	168,00	0	352,1	12,514	0,099	-11,1863	0		2,562	1,336
	2	1		8	6	6244				56	84
5	106,0	168,25	0	351,5	13,713	0,119	-11,1873	0		2,562	1,336
	2	8		1	4	525				61	87
5	106,1	168,51	0	350,8	14,818	0,139	-11,1883	0		2,562	1,336
	2	4		5	1	404				67	91
5	106,2	168,77	0	350,1	15,847	0,159	-11,1892	0		2,562	1,336
	2			8	5	275				72	95
5	106,3	169,02	0	349,5	16,814	0,179	-11,1901	0		2,562	1,336
	2	7		1	4	149				77	98
5	106,4	169,28	0	348,8	17,729	0,199	-11,191	0		2,562	1,337
	2	3		4	3	023				82	02
5	106,5	169,53	0	348,1	18,600	0,218	-11,1919	0		2,562	1,337
	2	9		7	5	885				87	05
5	106,6	169,79	0	347,5	19,434	0,238	-11,1928	0		2,562	1,337
	2	5		0	2	731				92	09
5	106,7	170,05	0	346,8	20,235	0,258	-11,1937	0		2,562	1,337
	2	2		3	4	557				98	13
5	106,8	170,30	0	346,1	21,007	0,278	-11,1946	0		2,563	1,337
	2	8		6	1	379				03	16
5	106,9	170,56	0	345,4	21,752	0,298	-11,1955	0		2,563	1,337
	2	4		9	7	185				08	2
5	107,0	170,82	0	344,8	22,473	0,317	-11,1964	0		2,563	1,337
	2	1		1	9	997				13	23
5	107,1	171,07	0	344,1	23,173	0,337	-11,1972	0		2,563	1,337
	2	7		4	6	8				18	27
5	107,2	171,33	0	343,4	23,853	0,357	-11,1981	0		2,563	1,337
	2	3		7	1	604				23	31
5	107,3	171,59	0	342,8	24,514	0,377	-11,199	0		2,563	1,337
	2			0	7	401				29	34
5	107,4	171,84	0	342,1	25,159	0,397	-11,1999	0		2,563	1,337
	2	6		2	6	192				34	38
5	107,5	172,15	0	341,3	25,913	0,420	-11,201	0		2,563	1,337
	4	4		2	5	925				4	42
5	107,6	172,52	0	340,3	26,792	0,449	-11,2022	0		2,563	1,337
	84	3		5	1	381				47	47
5	107,8	172,96	0	339,1	27,812	0,483	-11,2038	0		2,563	1,337

	57	6		9	6	492				56	54
5	108,0 64	173,49 7	0	337,7 9	28,993 4	0,524 375	-11,2056	0		2,563 67	1,337 61
5	108,3 13	174,13 5	0	336,1 1	30,353 8	0,573 399	-11,2078	0		2,563 8	1,337 7
5	108,6 12	174,90 1	0	334,1 0	31,914 4	0,632 18	-11,2105	0		2,563 95	1,337 81
5	108,9 7	175,81 9	0	331,6 8	33,698 2	0,702 653	-11,2137	0		2,564 14	1,337 94
5	109,4	176,92 2	0	328,7 7	35,730 2	0,787 11	-11,2175	0		2,564 36	1,338 1
5	109,9 16	178,24 5	0	325,2 7	38,04	0,888 232	-11,222	0		2,564 63	1,338 28
5	110,5 35	179,83 3	0	321,0 6	40,659 7	1,009 24	-11,2206	0		2,564 95	1,338 47
5	111,2 78	181,73 9	0	316,0 6	43,620 9	1,153 98	-11,1651	0		2,565 34	1,338 41
5	112,1 7	184,02 7	0	310,8 1	46,952 9	1,324 82	-10,9396	0		2,565 77	1,337 47
5	113,2 4	186,77 2	0	306,2 8	50,686 5	1,519 7	-10,6153	0		2,566 22	1,335 97
5	114,5 24	190,1	0	302,0 4	54,885 5	1,703 43	-10,134	0		2,627 1	1,333 63
5	116,0 64	194,20 9	0	296,2 0	59,999 1	1,897 31	-9,19453	0		2,710 74	1,328 97
5	117,9 13	199,30 3	0	286,6 9	66,365 4	2,119 32	-7,4486	0		2,799 4	1,320 29
5	120,1 32	205,62 3	0	271,0 7	74,197 3	2,382 83	-4,58973	0		2,896 66	1,306 21
5	122,7 94	213,48 5	0	245,3 4	83,605 4	2,713 36	-	0		3,009 38	1,285 3
5	125,1 98	220,84 3	0	212,0 3	91,859 9	3,046 39	4,70226	0		3,114 01	1,261 63
5	125,1 98	220,84 3	0	212,0 3	91,859 9	3,046 28	4,70226	0		3,114 12	1,261 63
5	125,1 99	220,84 6	0	212,0 2	91,862 2	3,046 39	4,70432	0		3,114 15	1,261 62



5	125,989	223,321	0	197,411	94,4116	3,17119	6,80936	0		3,15183	1,25173
5	129,823	235,755	0	141,25	105,926	3,83692	13,2146	0		3,33341	1,22208
5	134,423	251,55	0	99,73	118,264	4,66971	16,7405	0		3,52877	1,20603
5	139,944	271,6	0	70,46	131,949	5,65907	18,7787	0		3,72956	1,19686
5	146,569	297,01	0	49,78	147,573	6,82641	20,0174	0		3,93652	1,19136
5	147,519	300,763	0	47,58	149,776	6,99211	20,1392	0		3,96355	1,19082
5	147,519	300,763	0	47,58	149,776	6,99234	20,1392	0		3,96342	1,19082
5	154,518	329,197	0	35,21	164,09	8,27485	22,0715	0		4,15985	1,18346
5	164,058	370,084	0	25,05	178,492	10,1329	23,3948	0		4,40894	1,17858
5	170,94	401,005	0	20,34	186,398	11,5324	23,8889	0		4,57574	1,17681
6	199,864	166,72	0	16,90	0,00177245	0,186386	24,7644	0		2,58208	1,17348
6	199,964	166,977	0	235,91	5,59867	0,0193649	-15,8844	0		2,56908	1,36749
6	200,064	167,234	0	235,61	7,91952	0,0387034	-15,8931	0		2,56912	1,36755
6	200,164	167,491	0	235,19	9,71053	0,0579921	-15,8947	0		2,56915	1,36758
6	200,264	167,748	0	234,73	11,2185	0,0772885	-15,8952	0		2,56919	1,3676
6	200,364	168,005	0	234,27	12,5488	0,096575	-15,8956	0		2,56922	1,36763
6	200,464	168,262	0	233,82	13,7505	0,115888	-15,896	0		2,56926	1,36765
6	200,564	168,519	0	233,38	14,8555	0,135227	-15,8964	0		2,56929	1,36767
6	200,6	168,77	0	232,9	15,886	0,154	-15,8968	0		2,569	1,367

	64	6		5	8	54			32	7
6	200,7 64	169,03 3	0	232,5 2	16,860 4	0,173 796	-15,8972	0	2,569 35	1,367 72
6	200,8 64	169,28 9	0	232,0 8	17,782 3	0,193 048	-15,8975	0	2,569 39	1,367 74
6	200,9 64	169,54 6	0	231,6 3	18,659 9	0,212 297	-15,8978	0	2,569 42	1,367 76
6	201,0 64	169,80 3	0	231,1 8	19,499 6	0,231 53	-15,898	0	2,569 46	1,367 79
6	201,1 64	170,06	0	230,7 3	20,305 4	0,250 759	-15,8983	0	2,569 49	1,367 81
6	201,2 64	170,31 7	0	230,2 9	21,081 6	0,269 982	-15,8986	0	2,569 52	1,367 83
6	201,3 64	170,57 4	0	229,8 4	21,831 8	0,289 189	-15,8989	0	2,569 56	1,367 86
6	201,4 64	170,83 1	0	229,3 9	22,559 9	0,308 348	-15,8992	0	2,569 59	1,367 88
6	201,5 64	171,08 8	0	228,9 3	23,266 3	0,327 51	-15,8995	0	2,569 63	1,367 9
6	201,6 64	171,34 5	0	228,4 8	23,953 4	0,346 651	-15,8997	0	2,569 66	1,367 93
6	201,7 64	171,60 2	0	228,0 3	24,621 2	0,365 823	-15,9	0	2,569 69	1,367 95
6	201,8 64	171,85 9	0	227,5 8	25,273 2	0,384 964	-15,9003	0	2,569 73	1,367 97
6	201,9 84	172,16 7	0	227,0 3	26,034 1	0,407 959	-15,9006	0	2,569 77	1,368
6	202,1 28	172,53 7	0	226,3 9	26,920 9	0,435 537	-15,901	0	2,569 82	1,368 03
6	202,3 01	172,98 2	0	225,6 1	27,949 5	0,468 643	-15,9014	0	2,569 88	1,368 07
6	202,5 08	173,51 4	0	224,6 8	29,139 4	0,508 365	-15,902	0	2,569 95	1,368 12
6	202,7 57	174,15 4	0	223,5 7	30,511 2	0,556 003	-15,9027	0	2,570 03	1,368 17
6	203,0 56	174,92 1	0	222,2 3	32,089 7	0,613 043	-15,9035	0	2,570 13	1,368 24
6	203,4	175,84	0	220,6	33,898	0,681	-15,9045	0	2,570	1,368

	14	2		2	1	356				25	32
6	203,8 44	176,94 7	0	218,6 8	35,966 9	0,763 052	-15,9056	0		2,570 4	1,368 42
6	204,3 6	178,27 4	0	216,3 4	38,324 5	0,860 769	-15,9068	0		2,570 57	1,368 54
6	204,9 79	179,86 5	0	213,5 1	40,991 7	0,977 951	-15,9083	0		2,570 79	1,368 68
6	205,7 22	181,77 6	0	210,8 0	44,008	1,114 54	-15,905	0		2,571 01	1,368 79
6	206,6 14	184,06 8	0	208,7 8	47,407 7	1,269 46	-15,8817	0		2,571 24	1,368 76
6	207,6 84	186,81 9	0	207,2 3	51,226 8	1,444 78	-15,7352	0		2,571 49	1,368 04
6	208,9 67	190,13 2	0	205,5 5	55,613 7	1,626 4	-15,2815	0		2,598 38	1,365 65
6	210,5 08	194,19 7	0	202,4 6	61,035 6	1,800 23	-14,1192	0		2,675 08	1,359 51
6	212,3 57	199,22 1	0	196,5 9	67,741 7	2,002 79	-11,8807	0		2,759 04	1,347 8
6	214,5 76	205,44 9	0	186,2 3	75,934 8	2,25	-8,24233	0		2,853 96	1,329 07
6	217,2 38	213,19 6	0	168,7 3	85,732	2,568 55	-2,93725	0		2,966 07	1,302 37
6	219,7 69	220,84 3	0	145,1 6	94,741 6	2,912 29	2,98232	0		3,076 69	1,273 24
6	219,7 69	220,84 3	0	145,1 6	94,741 6	2,912 02	2,98232	0		3,076 98	1,273 24
6	219,7 7	220,84 6	0	145,1 5	94,744	2,912 13	2,98474	0		3,077 01	1,273 23
6	220,4 33	222,89 6	0	136,5 9	96,923 8	3,015 92	5,04662	0		3,109	1,263 24
6	224,2 67	235,17	0	97,01	108,84 7	3,676 55	12,4593	0		3,293 9	1,227 77
6	228,8 67	250,80 4	0	67,61	121,54 6	4,522 44	16,4189	0		3,496 98	1,209 02
6	234,3 88	270,69 7	0	47,27	135,56 9	5,525 26	18,6324	0		3,704 64	1,198 58
6	241,0	295,95	0	33,13	151,52	6,708	19,9478	0		3,916	1,192



	12	8		1	12		6	41			
6	243,3 41	305,15 9	0	29,66	156,99 5	7,119 05	20,3003	0		3,984 13	1,190 82
6	243,3 41	305,15 9	0	29,66	156,99 5	7,119 19	20,3003	0		3,984 05	1,190 82
6	248,9 62	328	0	23,29	168,79 8	8,155 71	21,9335	0		4,142 61	1,184 48
6	258,5 02	368,73 2	0	16,49	184,07 1	10,00 75	23,333	0		4,393 22	1,179 16
6	265,7 03	401,00 5	0	13,24	192,84 1	11,46 56	23,869	0		4,568 15	1,177 16
7	340,8 81	166,72	0	16,90	0,0017 7245	0,186 376	24,7485	0		2,582 08	1,173 54
7	340,9 81	166,97 8	0	164,0 0	5,5992 5	0,018 9407	-19,6625	0		2,573 1	1,391 74
7	341,0 81	167,23 5	0	163,7 2	7,9237	0,037 8569	-19,6708	0		2,573 13	1,391 8
7	341,1 81	167,49 2	0	163,4 0	9,7130 5	0,056 7486	-19,6715	0		2,573 15	1,391 82
7	341,2 81	167,75	0	163,0 8	11,221 6	0,075 651	-19,6713	0		2,573 17	1,391 83
7	341,3 81	168,00 7	0	162,7 7	12,555 2	0,094 5242	-19,6709	0		2,573 2	1,391 85
7	341,4 81	168,26 4	0	162,4 5	13,762	0,113 398	-19,6704	0		2,573 22	1,391 86
7	341,5 81	168,52 1	0	162,1 4	14,872 3	0,132 276	-19,6698	0		2,573 24	1,391 87
7	341,6 81	168,77 9	0	161,8 3	15,907 7	0,151 141	-19,6693	0		2,573 27	1,391 88
7	341,7 81	169,03 6	0	161,5 2	16,882 5	0,169 987	-19,6687	0		2,573 29	1,391 89
7	341,8 81	169,29 3	0	161,2 1	17,806 7	0,188 816	-19,6682	0		2,573 31	1,391 91
7	341,9 81	169,55 1	0	160,9 0	18,687 2	0,207 636	-19,6676	0		2,573 34	1,391 92
7	342,0 81	169,80 8	0	160,5 9	19,529 1	0,226 457	-19,6671	0		2,573 36	1,391 93



7	342,1 81	170,06 5	0	160,2 8	20,337 5	0,245 276	-19,6665	0	2,573 38	1,391 94
7	342,2 81	170,32 3	0	159,9 7	21,116 5	0,264 088	-19,6659	0	2,573 41	1,391 95
7	342,3 81	170,58	0	159,6 6	21,869 4	0,282 889	-19,6654	0	2,573 43	1,391 96
7	342,4 81	170,83 7	0	159,3 5	22,599 1	0,301 675	-19,6648	0	2,573 45	1,391 98
7	342,5 81	171,09 5	0	159,0 4	23,307 7	0,320 448	-19,6642	0	2,573 47	1,391 99
7	342,6 81	171,35 2	0	158,7 4	23,997 3	0,339 202	-19,6637	0	2,573 5	1,392
7	342,7 81	171,61	0	158,4 3	24,669 3	0,357 946	-19,6631	0	2,573 52	1,392 01
7	342,8 81	171,86 7	0	158,1 2	25,324 7	0,376 686	-19,6625	0	2,573 54	1,392 02
7	343,0 01	172,17 6	0	157,7 5	26,091 5	0,399 154	-19,6618	0	2,573 57	1,392 04
7	343,1 45	172,54 6	0	157,3 0	26,984 7	0,426 117	-19,661	0	2,573 6	1,392 05
7	343,3 18	172,99 1	0	156,7 7	28,022 2	0,458 449	-19,66	0	2,573 64	1,392 07
7	343,5 26	173,52 5	0	156,1 3	29,222 5	0,497 231	-19,6588	0	2,573 69	1,392 1
7	343,7 74	174,16 5	0	155,3 5	30,607 1	0,543 72	-19,6574	0	2,573 75	1,392 13
7	344,0 73	174,93 4	0	154,4 3	32,199 6	0,599 416	-19,6557	0	2,573 82	1,392 16
7	344,4 31	175,85 6	0	153,3 2	34,026	0,666 109	-19,6536	0	2,573 9	1,392 2
7	344,8 61	176,96 3	0	151,9 8	36,112 8	0,745 987	-19,6511	0	2,574 25	1,392
7	345,3 77	178,29 1	0	150,3 7	38,489	0,841 627	-19,65	0	2,574 12	1,392 32
7	345,9 96	179,88 5	0	148,6 6	41,186 8	0,954 33	-19,7415	0	2,574 26	1,392 92
7	346,7 39	181,79 7	0	147,4 0	44,243 3	1,082 31	-19,9616	0	2,574 38	1,394 21

7	347,631	184,093	0	146,70	47,6978	1,22575	-20,1314	0		2,57451	1,39519
7	348,701	186,848	0	146,26	51,5813	1,38832	-20,062	0		2,57468	1,39483
7	349,985	190,155	0	145,66	56,0631	1,57181	-19,5905	0		2,5749	1,39222
7	351,526	194,182	0	144,02	61,6752	1,73115	-18,2491	0		2,64799	1,38484
7	353,375	199,153	0	140,16	68,5955	1,92154	-15,5516	0		2,72926	1,37022
7	355,593	205,312	0	132,80	77,0172	2,1599	-11,1815	0		2,82328	1,34706
7	358,255	212,979	0	120,28	87,0568	2,47223	-5,01502	0		2,93585	1,3153
7	360,883	220,843	0	102,74	96,6108	2,82646	1,8764	0		3,05229	1,28072
7	360,883	220,843	0	102,74	96,6108	2,82629	1,8764	0		3,05247	1,28072
7	360,884	220,846	0	102,73	96,6132	2,8264	1,87907	0		3,05251	1,2807
7	361,45	222,584	0	97,48	98,4946	2,91523	3,82786	0		3,08028	1,2711
7	365,284	234,754	0	68,93	110,648	3,57396	11,9687	0		3,26788	1,23145
7	369,885	250,279	0	47,67	123,541	4,42885	16,2225	0		3,47624	1,21086
7	375,405	270,071	0	33,12	137,744	5,44199	18,5483	0		3,68828	1,19961
7	382,03	295,24	0	23,11	153,868	6,63412	19,91	0		3,90419	1,19302
7	384,957	306,795	0	20,10	160,8	7,15504	20,395	0		3,98986	1,19082
7	384,957	306,795	0	20,10	160,8	7,15506	20,395	0		3,98985	1,19082
7	389,98	327,193	0	16,19	171,505	8,08436	21,8581	0		4,1322	1,18507
7	399,519	367,833	0	11,43	187,227	9,93472	23,3006	0		4,38405	1,17949



7	406,9 31	401,00 5	0	9,10	196,51 3	11,43 34	23,8623	0			4,564 47	1,177 36
8	539,1 86	166,72	0	16,90	0,0017 7245	0,186 369	24,7379	0			2,582 08	1,173 59
8	539,2 86	166,97 8	0	119,9 7	5,6059 4	0,018 6364	-22,3054	0			2,575 54	1,408 76
8	539,3 86	167,23 5	0	119,7 0	7,9336 5	0,037 2709	-22,3133	0			2,575 56	1,408 82
8	539,4 86	167,49 3	0	119,4 4	9,7262 6	0,055 8733	-22,3137	0			2,575 58	1,408 83
8	539,5 86	167,75	0	119,1 9	11,239 3	0,074 4608	-22,3132	0			2,575 59	1,408 84
8	539,6 86	168,00 8	0	118,9 6	12,570 9	0,093 0833	-22,3125	0			2,575 61	1,408 85
8	539,7 86	168,26 6	0	118,7 3	13,775 3	0,111 726	-22,3119	0			2,575 63	1,408 85
8	539,8 86	168,52 3	0	118,5 1	14,888 8	0,130 315	-22,3112	0			2,575 64	1,408 86
8	539,9 86	168,78 1	0	118,2 9	15,928 4	0,148 882	-22,3104	0			2,575 66	1,408 87
8	540,0 86	169,03 8	0	118,0 6	16,906 2	0,167 443	-22,3097	0			2,575 68	1,408 87
8	540,1 86	169,29 6	0	117,8 4	17,832 5	0,185 989	-22,3089	0			2,575 69	1,408 88
8	540,2 86	169,55 3	0	117,6 1	18,714 4	0,204 531	-22,3081	0			2,575 71	1,408 89
8	540,3 86	169,81 1	0	117,3 9	19,558 2	0,223 068	-22,3073	0			2,575 73	1,408 89
8	540,4 86	170,06 9	0	117,1 6	20,371 1	0,241 548	-22,3065	0			2,575 74	1,408 9
8	540,5 86	170,32 6	0	116,9 3	21,154 5	0,260 025	-22,3057	0			2,575 76	1,408 91
8	540,6 86	170,58 4	0	116,7 0	21,911 5	0,278 499	-22,3049	0			2,575 78	1,408 91
8	540,7 86	170,84 1	0	116,4 8	22,644 4	0,296 973	-22,3041	0			2,575 79	1,408 92
8	540,8	171,09	0	116,2	23,355	0,315	-22,3033	0			2,575	1,408



	86	9		5		462				81	93
8	540,9	171,35	0	116,0	24,046	0,333	-22,3024	0		2,575	1,408
	86	6		2	8	923				83	93
8	541,0	171,61	0	115,8	24,719	0,352	-22,3016	0		2,575	1,408
	86	4		0	5	411				84	94
8	541,1	171,87	0	115,5	25,375	0,370	-22,3008	0		2,575	1,408
	86	2		7	7	892				86	94
8	541,3	172,18	0	115,3	26,143	0,393	-22,2999	0		2,575	1,408
	06	1		0	1	071				88	95
8	541,4	172,55	0	114,9	27,037	0,419	-22,2987	0		2,575	1,408
	5	2		8	8	678				9	96
8	541,6	172,99	0	114,5	28,077	0,451	-22,2974	0		2,575	1,408
	23	7		9	9	575				93	97
8	541,8	173,53	0	114,1	29,283	0,489	-22,2957	0		2,575	1,408
	3	1		2	9	786				97	99
8	542,0	174,17	0	113,5	30,676	0,535	-22,2937	0		2,576	1,409
	79	2		7	5	562				01	
8	542,3	174,94	0	112,8	32,281	0,590	-22,2913	0		2,576	1,409
	77	1		9	3	34				06	02
8	542,7	175,86	0	112,0	34,124	0,655	-22,2884	0		2,576	1,409
	36	4		8	3	893				12	04
8	543,1	176,97	0	111,0	36,225	0,734	-22,2849	0		2,576	1,409
	66	2		9	6	485				19	07
8	543,6	178,30	0	109,9	38,616	0,828	-22,2806	0		2,576	1,409
	82	1		1	8	689				28	1
8	544,3	179,89	0	108,9	41,334	0,936	-22,5292	0		2,576	1,410
	01	6		2	6	862				37	57
8	545,0	181,81	0	108,3	44,416	1,058	-22,9254	0		2,576	1,412
	44	1		7	8	03				45	86
8	545,9	184,10	0	108,1	47,900	1,194	-23,1919	0		2,576	1,414
	36	8		8	7	35				53	39
8	547,0	186,86	0	108,1	51,818	1,349	-23,1688	0		2,576	1,414
	05	5		2	4	45				65	26
8	548,2	190,17	0	107,9	56,374	1,524	-22,6623	0		2,576	1,411
	89	3		0	6	15				81	38
8	549,8	194,17	0	106,9	62,083	1,686	-21,1892	0		2,630	1,403
	3	9		0	3	36				2	06
8	551,6	199,11	0	104,1	69,147	1,869	-18,1644	0		2,709	1,386



	79	6		6	2	36				51	28
8	553,8 98	205,23 1	0	98,75	77,720 5	2,101 69	-13,299	0		2,802 91	1,359 98
8	556,5 6	212,84 3	0	89,41	87,915 1	2,410 34	-6,49234	0		2,916 12	1,324 4
8	559,2 48	220,84 3	0	76,02	97,812 6	2,771 76	1,09799	0		3,036 79	1,285 85
8	559,2 48	220,84 3	0	76,02	97,812 6	2,771 98	1,09799	0		3,036 56	1,285 85
8	559,2 49	220,84 6	0	76,02	97,815 1	2,772 09	1,10084	0		3,036 6	1,285 84
8	559,7 55	222,38 8	0	72,52	99,503 2	2,851 41	2,96024	0		3,061 64	1,276 59
8	563,5 88	234,49 4	0	51,14	111,74 6	3,509 05	11,6282	0		3,251 1	1,233 93
8	568,1 89	249,94 9	0	35,19	124,76 4	4,368 4	16,087	0		3,462 72	1,212 08
8	573,7 1	269,67 5	0	24,35	139,07 8	5,387 65	18,4908	0		3,677 74	1,200 27
8	580,3 34	294,78 2	0	16,94	155,30 8	6,586 02	19,8842	0		3,896 08	1,193 41
8	583,6 32	307,79	0	14,47	163,16 6	7,175 52	20,4507	0		3,992 99	1,190 82
8	583,6 32	307,79	0	14,47	163,16 6	7,175 29	20,4507	0		3,993 11	1,190 82
8	588,2 84	326,67 8	0	11,84	173,17	8,038 22	21,8093	0		4,125 43	1,185 44
8	597,8 24	367,25 7	0	8,34	189,16 7	9,888 33	23,2799	0		4,378 18	1,179 7
8	605,3 72	401,00 9	0	6,61	198,77 8	11,41 38	23,858	0		4,562 24	1,177 47
9	805,7 03	166,72	0	16,90	0,0017 7245	0,186 365	24,7302	0		2,582 08	1,173 62
9	805,8 03	166,97 8	0	89,63	5,6043 5	0,018 4363	-24,2545	0		2,577 21	1,421 4
9	805,9 03	167,23 6	0	89,38	7,9336 8	0,036 8686	-24,2622	0		2,577 22	1,421 46



9	806,0 03	167,49 3	0	89,19	9,7232 8	0,055 2985	-24,2626 0		2,577 24	1,421 47
9	806,1 03	167,75 1	0	89,01	11,236 4	0,073 7087	-24,2622 0		2,577 25	1,421 48
9	806,2 03	168,00 9	0	88,83	12,570 2	0,092 1252	-24,2615 0		2,577 26	1,421 48
9	806,3 03	168,26 7	0	88,66	13,779 5	0,110 518	-24,2608 0		2,577 27	1,421 49
9	806,4 03	168,52 4	0	88,49	14,894 8	0,128 893	-24,26 0		2,577 29	1,421 49
9	806,5 03	168,78 2	0	88,32	15,934 1	0,147 267	-24,2592 0		2,577 3	1,421 49
9	806,6 03	169,04 0	0	88,15	16,911 2	0,165 643	-24,2584 0		2,577 31	1,421 5
9	806,7 03	169,29 8	0	87,98	17,837	0,184 009	-24,2576 0		2,577 32	1,421 5
9	806,8 03	169,55 5	0	87,81	18,719 8	0,202 357	-24,2568 0		2,577 33	1,421 5
9	806,9 03	169,81 3	0	87,64	19,565 7	0,220 684	-24,256 0		2,577 35	1,421 51
9	807,0 03	170,07 1	0	87,47	20,378 9	0,238 999	-24,2552 0		2,577 36	1,421 51
9	807,1 03	170,32 8	0	87,30	21,163	0,257 302	-24,2544 0		2,577 37	1,421 52
9	807,2 03	170,58 6	0	87,13	21,920 5	0,275 605	-24,2535 0		2,577 38	1,421 52
9	807,3 03	170,84 4	0	86,97	22,654 2	0,293 901	-24,2527 0		2,577 4	1,421 52
9	807,4 03	171,10 2	0	86,80	23,366 2	0,312 197	-24,2519 0		2,577 41	1,421 53
9	807,5 03	171,35 9	0	86,63	24,058 7	0,330 484	-24,2511 0		2,577 42	1,421 53
9	807,6 03	171,61 7	0	86,46	24,733 4	0,348 763	-24,2503 0		2,577 43	1,421 53
9	807,7 03	171,87 5	0	86,29	25,392	0,367 03	-24,2494 0		2,577 45	1,421 54
9	807,8 23	172,18 4	0	86,09	26,162 7	0,388 931	-24,2485 0		2,577 46	1,421 54



9	807,9 67	172,55 5	0	85,84	27,061 9	0,415 187	-24,2473	0		2,577 48	1,421 55
9	808,1 4	173,00 1	0	85,55	28,107 9	0,446 65	-24,2458	0		2,577 5	1,421 55
9	808,3 47	173,53 5	0	85,20	29,319 3	0,484 378	-24,2441	0		2,577 53	1,421 56
9	808,5 96	174,17 7	0	84,78	30,718 2	0,529 586	-24,2421	0		2,577 56	1,421 57
9	808,8 95	174,94 6	0	84,28	32,325 7	0,583 803	-24,2396	0		2,577 6	1,421 58
9	809,2 53	175,87	0	83,67	34,167 6	0,648 788	-24,2366	0		2,577 64	1,421 59
9	809,6 83	176,97 8	0	82,95	36,273 2	0,726 5	-24,2427	0		2,577 69	1,421 66
9	810,1 99	178,30 8	0	82,18	38,676 1	0,818 15	-24,341	0		2,577 75	1,422 27
9	810,8 18	179,90 4	0	81,59	41,408 2	0,922 851	-24,6729	0		2,577 81	1,424 21
9	811,5 61	181,82	0	81,31	44,509	1,040 19	-25,1432	0		2,577 87	1,426 96
9	812,4 53	184,11 8	0	81,28	48,016 9	1,171 9	-25,4965	0		2,577 93	1,429 01
9	813,5 23	186,87 6	0	81,36	51,965 1	1,321 57	-25,5156	0		2,578 02	1,429 12
9	814,8 07	190,18 6	0	81,30	56,595 8	1,489 95	-24,9739	0		2,578 14	1,425 97
9	816,3 47	194,17 7	0	80,64	62,419 3	1,653 54	-23,3787	0		2,616 82	1,416 8
9	818,1 96	199,08 7	0	78,66	69,579 2	1,831 25	-20,1278	0		2,695 11	1,398 45
9	820,4 15	205,16 9	0	74,66	78,251 5	2,059 27	-14,9326	0		2,787 63	1,369 96
9	823,0 77	212,74 1	0	67,68	88,540 8	2,364 3	-7,6975	0		2,901 12	1,331 7
9	825,8 13	220,84 3	0	57,31	98,583 3	2,732 9	0,52454	0		3,026 73	1,289 6
9	825,8 13	220,84 3	0	57,31	98,583 3	2,734 17	0,52454	0		3,025 32	1,289 6

9	825,8 14	220,84 6	0	57,31	98,585 8	2,734 29	0,52753 6	0		3,025 35	1,289 59
9	826,2 72	222,23 8	0	54,90	100,12 2	2,806 21	2,29689	0		3,048 22	1,280 73
9	830,1 06	234,29 8	0	38,63	112,42 3	3,462 94	11,3732	0		3,239 02	1,235 75
9	834,7 06	249,70 1	0	26,50	125,52 7	4,324 27	15,9852	0		3,452 76	1,212 97
9	840,2 27	269,37 9	0	18,28	139,91 8	5,347 49	18,4481	0		3,669 9	1,200 75
9	846,8 52	294,44 1	0	12,69	156,21 9	6,550 14	19,8653	0		3,889 99	1,193 69
9	850,4 07	308,46 1	0	10,70	164,72 2	7,187 87	20,488	0		3,994 93	1,190 82
9	850,4 07	308,46 1	0	10,70	164,72 2	7,187 59	20,488	0		3,995 09	1,190 82
9	854,8 01	326,29 2	0	8,85	174,22 7	8,003 86	21,774	0		4,120 37	1,185 7
9	864,3 41	366,82 7	0	6,23	190,41 2	9,853 83	23,265	0		4,373 79	1,179 84
9	871,9 91	401,01 2	0	4,92	200,26 3	11,39 92	23,8556	0		4,560 56	1,177 55
10	1166, 8	166,72	0	16,90	0,0017 7245	0,186 361	24,7242	0		2,582 08	1,173 64
10	1166, 9	166,97 8	0	66,85	5,6049 3	0,018 2656	-25,7784	0		2,578 45	1,431 36
10	1167	167,23 6	0	66,62	7,9356 1	0,036 5467	-25,7863	0		2,578 47	1,431 42
10	1167, 1	167,49 4	0	66,46	9,7259	0,054 8268	-25,7869	0		2,578 48	1,431 43
10	1167, 2	167,75 2	0	66,32	11,240 2	0,073 081	-25,7866	0		2,578 49	1,431 44
10	1167, 3	168,00 9	0	66,18	12,575 2	0,091 3414	-25,7861	0		2,578 5	1,431 44
10	1167, 4	168,26 7	0	66,05	13,784 7	0,109 588	-25,7855	0		2,578 5	1,431 45
10	1167,	168,52	0	65,92	14,900	0,127	-25,7848	0		2,578	1,431



	5	5			7	81				51	45
10	1167,6	168,783	0	65,795	15,941	0,146023	-25,7842	0		2,57852	1,43145
10	1167,7	169,041	0	65,671	16,920	0,164238	-25,7835	0		2,57853	1,43145
10	1167,8	169,299	0	65,548	17,846	0,18245	-25,7829	0		2,57854	1,43145
10	1167,9	169,557	0	65,412	18,730	0,200649	-25,7822	0		2,57855	1,43146
10	1168	169,814	0	65,285	19,576	0,21883	-25,7815	0		2,57856	1,43146
10	1168,1	170,072	0	65,166	20,390	0,23699	-25,7808	0		2,57857	1,43146
10	1168,2	170,33	0	65,036	21,175	0,25514	-25,7802	0		2,57858	1,43146
10	1168,3	170,588	0	64,907	21,934	0,273278	-25,7795	0		2,57859	1,43147
10	1168,4	170,846	0	64,78	22,67	0,291413	-25,7788	0		2,5786	1,43147
10	1168,5	171,104	0	64,656	23,383	0,309544	-25,7781	0		2,57861	1,43147
10	1168,6	171,362	0	64,525	24,077	0,327671	-25,7775	0		2,57862	1,43147
10	1168,7	171,619	0	64,405	24,753	0,345793	-25,7768	0		2,57863	1,43148
10	1168,8	171,877	0	64,271	25,413	0,363905	-25,7761	0		2,57863	1,43148
10	1168,92	172,187	0	64,12	26,185	0,385625	-25,7753	0		2,57865	1,43148
10	1169,06	172,558	0	63,945	27,085	0,411664	-25,7743	0		2,57866	1,43148
10	1169,23	173,004	0	63,729	28,132	0,442874	-25,7731	0		2,57868	1,43149
10	1169,44	173,538	0	63,453	29,347	0,480266	-25,7717	0		2,57869	1,43149
10	1169,69	174,18	0	63,142	30,749	0,525091	-25,77	0		2,57872	1,4315
10	1169,	174,95	0	62,76	32,362	0,578	-25,768	0		2,578	1,431



	99				2	806				75	5
10	1170,35	175,874	0	62,30	34,2106	0,643198	-25,76550			2,57878	1,43151
10	1170,78	176,983	0	61,76	36,3229	0,720353	-25,76260			2,57882	1,43152
10	1171,29	178,314	0	61,20	38,7326	0,810853	-25,89620			2,57886	1,43233
10	1171,91	179,91	0	60,85	41,4755	0,912779	-26,37470			2,5789	1,43515
10	1172,65	181,826	0	60,72	44,5907	1,02671	-26,93790			2,57894	1,43847
10	1173,55	184,126	0	60,80	48,1149	1,15447	-27,35950			2,57899	1,44095
10	1174,62	186,885	0	60,92	52,0818	1,30022	-27,38810			2,57905	1,44111
10	1175,9	190,197	0	60,89	56,7919	1,46381	-26,76680			2,57914	1,43745
10	1177,44	194,184	0	60,41	62,6488	1,63068	-25,04530			2,60786	1,42741
10	1179,29	199,078	0	58,95	69,8788	1,80528	-21,61830			2,68476	1,40781
10	1181,51	205,138	0	55,98	78,6421	2,02963	-16,16810			2,77681	1,37758
10	1184,17	212,68	0	50,76	89,05	2,33148	-8,586840			2,89007	1,33715
10	1186,94	220,843	0	42,93	99,3939	2,70143	0,021380			3,01596	1,29281
10	1186,94	220,843	0	42,93	99,3939	2,70183	0,021380			3,01552	1,29281
10	1186,94	220,846	0	42,92	99,3964	2,70194	0,024500			3,01556	1,29279
10	1187,36	222,143	0	41,23	100,836	2,76932	1,747210			3,03712	1,28412
10	1191,2	234,165	0	28,96	113,18	3,42632	11,16810			3,22934	1,23721
10	1195,8	249,529	0	19,80	126,349	4,29059	15,90610			3,4451	1,21365
10	1201,	269,16	0	13,63	140,79	5,317	18,4150			3,664	1,201



	32	9			8	47					11	
10	1207,94	294,197	0	9,44	157,153	6,52411	19,8505	0			3,88556	1,1939
10	1211,7	308,985	0	7,89	166,152	7,19893	20,5158	0			3,99659	1,19082
10	1211,7	308,985	0	7,89	166,152	7,19848	20,5158	0			3,99684	1,19082
10	1215,89	326,017	0	6,58	175,279	7,97948	21,7468	0			4,11678	1,1859
10	1225,43	366,516	0	4,63	191,644	9,82812	23,2561	0			4,37051	1,17994
10	1233,16	401,014	0	3,64	201,676	11,3883	23,8558	0			4,55931	1,1776
11	1658,62	166,72	0	16,90	0,00177245	0,186358	24,7192	0			2,58208	1,17366
11	1658,72	166,978	0	48,36	5,60862	0,0181048	-27,0668	0			2,57946	1,43983
11	1658,82	167,236	0	48,13	7,94191	0,0362476	-27,0747	0			2,57947	1,43989
11	1658,92	167,494	0	48,00	9,73037	0,0544271	-27,0755	0			2,57948	1,4399
11	1659,02	167,752	0	47,90	11,2469	0,072553	-27,0753	0			2,57949	1,43991
11	1659,12	168,01	0	47,79	12,584	0,0906713	-27,075	0			2,57949	1,43991
11	1659,22	168,268	0	47,70	13,7965	0,108758	-27,0745	0			2,5795	1,43991
11	1659,32	168,526	0	47,60	14,9142	0,126827	-27,074	0			2,57951	1,43992
11	1659,42	168,784	0	47,50	15,9552	0,144906	-27,0735	0			2,57952	1,43992
11	1659,52	169,042	0	47,41	16,9332	0,163007	-27,073	0			2,57952	1,43992
11	1659,62	169,3	0	47,32	17,8595	0,181114	-27,0725	0			2,57953	1,43992
11	1659,72	169,558	0	47,23	18,7422	0,199215	-27,072	0			2,57954	1,43992



11	1659,82	169,816	0	47,147	19,5887	0,217285	-27,07150			2,57954	1,43992
11	1659,92	170,074	0	47,04	20,405	0,235303	-27,07090			2,57955	1,43992
11	1660,02	170,332	0	46,95	21,1939	0,253288	-27,07040			2,57956	1,43993
11	1660,12	170,59	0	46,86	21,9576	0,271252	-27,06990			2,57956	1,43993
11	1660,22	170,847	0	46,77	22,6973	0,289211	-27,06930			2,57957	1,43993
11	1660,32	171,105	0	46,67	23,4129	0,307196	-27,06880			2,57958	1,43993
11	1660,42	171,363	0	46,58	24,1086	0,325177	-27,06820			2,57958	1,43993
11	1660,52	171,621	0	46,49	24,7857	0,343164	-27,06770			2,57959	1,43993
11	1660,62	171,879	0	46,39	25,4464	0,361145	-27,06720			2,5796	1,43993
11	1660,74	172,189	0	46,28	26,2195	0,382705	-27,06650			2,5796	1,43994
11	1660,88	172,56	0	46,15	27,1205	0,40858	-27,06580			2,57961	1,43994
11	1661,05	173,006	0	45,99	28,1676	0,439615	-27,06490			2,57963	1,43994
11	1661,26	173,541	0	45,80	29,3806	0,476826	-27,06380			2,57964	1,43994
11	1661,51	174,183	0	45,57	30,7826	0,521396	-27,06240			2,57966	1,43995
11	1661,81	174,953	0	45,30	32,3988	0,574737	-27,06090			2,57968	1,43995
11	1662,17	175,878	0	44,97	34,2544	0,638607	-27,05890			2,5797	1,43996
11	1662,6	176,987	0	44,58	36,375	0,715047	-27,06250			2,57973	1,44
11	1663,11	178,318	0	44,21	38,7941	0,803875	-27,26590			2,57976	1,44121
11	1663,73	179,915	0	44,03	41,5484	0,902669	-27,89560			2,57979	1,44495



11	1664,47	181,832	0	44,019	44,6749	1,01308	-28,57070			2,57981	1,44897
11	1665,37	184,132	0	44,111	48,2101	1,13791	-29,01110			2,57984	1,4516
11	1666,44	186,892	0	44,237	52,1967	1,2807	-29,02050			2,57989	1,45165
11	1667,72	190,205	0	44,254	56,8914	1,44178	-28,37650			2,57996	1,4478
11	1669,26	194,189	0	43,923	62,8053	1,61077	-26,56230			2,59873	1,43708
11	1671,11	199,064	0	42,882	70,1002	1,78148	-22,98720			2,67509	1,41639
11	1673,33	205,101	0	40,723	78,9363	2,00335	-17,2780			2,76655	1,38441
11	1675,99	212,619	0	36,905	89,4135	2,30371	-9,342980			2,88089	1,34178
11	1678,78	220,843	0	31,142	99,9302	2,67856	-0,170401			3,0091	1,29438
11	1678,78	220,843	0	31,142	99,9302	2,67901	-0,170401			3,0086	1,29438
11	1678,78	220,846	0	31,136	99,9326	2,67913	-0,167316			3,00863	1,29437
11	1679,19	222,057	0	29,979	101,279	2,74141	1,301030			3,02862	1,28689
11	1683,02	234,054	0	21,027	113,657	3,39903	11,00490			3,22208	1,23837
11	1687,62	249,387	0	14,357	126,887	4,26432	15,84420			3,43908	1,2142
11	1693,14	268,999	0	9,858	141,378	5,29482	18,38960			3,65957	1,2014
11	1699,76	294,001	0	6,826	157,776	6,50426	19,83910			3,88214	1,19407
11	1703,67	309,384	0	5,665	167,165	7,20728	20,53790			3,99809	1,19082
11	1703,67	309,384	0	5,665	167,165	7,20728	20,53790			3,99809	1,19082



	67	4			5	06				21	82
11	1707,71	325,797	0	4,75	175,993	7,96057	21,7256	0		4,11399	1,18606
11	1717,25	366,271	0	3,33	192,47	9,80943	23,247	0		4,36813	1,18003
11	1725,04	401,016	0	2,62	202,644	11,381	23,854	0		4,55847	1,17765
12	2362,71	166,72	0	16,90	0,00177245	0,186355	24,7148	0		2,58208	1,17368
12	2362,81	166,978	0	32,78	5,60479	0,0179642	-28,2251	0		2,58031	1,44747
12	2362,91	167,236	0	32,57	7,94127	0,035993	-28,2334	0		2,58032	1,44753
12	2363,01	167,494	0	32,47	9,73139	0,0540536	-28,2343	0		2,58032	1,44754
12	2363,11	167,752	0	32,39	11,2497	0,0720585	-28,2343	0		2,58033	1,44754
12	2363,21	168,01	0	32,31	12,5907	0,0900448	-28,234	0		2,58033	1,44754
12	2363,31	168,268	0	32,24	13,803	0,108031	-28,2337	0		2,58034	1,44755
12	2363,41	168,526	0	32,17	14,9216	0,125986	-28,2334	0		2,58034	1,44755
12	2363,51	168,785	0	32,10	15,963	0,143958	-28,233	0		2,58035	1,44755
12	2363,61	169,043	0	32,04	16,9423	0,161931	-28,2327	0		2,58035	1,44755
12	2363,71	169,301	0	31,98	17,8692	0,179922	-28,2323	0		2,58036	1,44755
12	2363,81	169,559	0	31,91	18,7522	0,197917	-28,2319	0		2,58036	1,44755
12	2363,91	169,817	0	31,85	19,5983	0,215889	-28,2316	0		2,58037	1,44755
12	2364,01	170,075	0	31,79	20,4128	0,233835	-28,2312	0		2,58037	1,44755
12	2364,11	170,333	0	31,73	21,2007	0,251729	-28,2309	0		2,58038	1,44755



12	2364,21	170,591	0	31,66	21,962	0,269625	-28,2305	0		2,58038	1,44755
12	2364,31	170,849	0	31,60	22,6998	0,287512	-28,2301	0		2,58038	1,44756
12	2364,41	171,107	0	31,54	23,4162	0,30539	-28,2297	0		2,58039	1,44756
12	2364,51	171,365	0	31,48	24,1129	0,323264	-28,2294	0		2,58039	1,44756
12	2364,61	171,623	0	31,41	24,7922	0,341116	-28,229	0		2,5804	1,44756
12	2364,71	171,881	0	31,35	25,4545	0,358967	-28,2286	0		2,5804	1,44756
12	2364,83	172,191	0	31,28	26,2296	0,380368	-28,2282	0		2,58041	1,44756
12	2364,97	172,562	0	31,18	27,1333	0,406042	-28,2276	0		2,58041	1,44756
12	2365,15	173,008	0	31,08	28,185	0,436793	-28,227	0		2,58042	1,44756
12	2365,35	173,543	0	30,95	29,4048	0,473626	-28,2262	0		2,58043	1,44756
12	2365,6	174,185	0	30,79	30,8139	0,517751	-28,2252	0		2,58044	1,44757
12	2365,9	174,956	0	30,60	32,4332	0,570696	-28,2241	0		2,58046	1,44757
12	2366,26	175,88	0	30,37	34,2892	0,634176	-28,2227	0		2,58047	1,44757
12	2366,69	176,99	0	30,12	36,4102	0,709936	-28,2517	0		2,58049	1,44776
12	2367,21	178,321	0	29,89	38,8313	0,79776	-28,4973	0		2,58051	1,44923
12	2367,82	179,919	0	29,78	41,5916	0,895287	-29,157	0		2,58053	1,45318
12	2368,57	181,837	0	29,80	44,7313	1,0031	-29,9382	0		2,58055	1,45788
12	2369,46	184,137	0	29,89	48,2769	1,12524	-30,4229	0		2,58057	1,4608
12	2370,53	186,899	0	30,00	52,2482	1,26574	-30,4708	0		2,5806	1,46109



12	2371,81	190,212	0	30,04	56,9453	1,42376	-29,8506	0	2,58064	1,45734
12	2373,35	194,191	0	29,85	62,8841	1,59361	-28,0153	0	2,59112	1,44636
12	2375,2	199,052	0	29,17	70,2288	1,76088	-24,3034	0	2,6669	1,42464
12	2377,42	205,071	0	27,68	79,1125	1,98081	-18,3084	0	2,75865	1,39074
12	2380,08	212,566	0	25,07	89,6472	2,28033	-10,0444	0	2,87279	1,34605
12	2382,9	220,843	0	21,11	100,314	2,65834	-	0	3,00201	1,29653
12	2382,9	220,843	0	21,11	100,314	2,65817	-	0	3,0022	1,29653
12	2382,9	220,846	0	21,11	100,317	2,65828	-	0	3,00224	1,29651
12	2383,28	221,978	0	20,37	101,58	2,71652	0,89704	0	3,02101	1,28937
12	2387,11	233,949	0	14,27	113,988	3,37376	10,8579	0	3,21531	1,2394
12	2391,71	249,252	0	9,72	127,258	4,23943	15,786	0	3,43331	1,21469
12	2397,23	268,837	0	6,66	141,786	5,27223	18,3662	0	3,65508	1,20165
12	2403,86	293,812	0	4,61	158,218	6,48402	19,8294	0	3,87871	1,19421
12	2407,9	309,734	0	3,79	167,931	7,21376	20,5563	0	3,9991	1,19082
12	2407,9	309,734	0	3,79	167,931	7,2135	20,5563	0	3,99924	1,19082
12	2411,81	325,584	0	3,20	176,485	7,9419	21,7054	0	4,11122	1,1862
12	2421,35	366,035	0	2,25	193,06	9,79071	23,2384	0	4,36573	1,18011
12	2429,	401,01	0	1,76	203,36	11,37	23,8525	0	4,557	1,177

	19	7			5	33				58	69
13	3473,37	166,72	0	16,90	0,00177245	0,186352	24,7105	0		2,58208	1,17369
13	3473,47	166,978	0	19,25	5,59629	0,0177837	-29,3598	0		2,58105	1,45492
13	3473,57	167,236	0	19,06	7,93227	0,0357409	-29,3689	0		2,58105	1,45499
13	3473,67	167,495	0	18,97	9,72577	0,0536874	-29,37	0		2,58106	1,455
13	3473,77	167,753	0	18,92	11,2392	0,0716284	-29,3702	0		2,58106	1,455
13	3473,87	168,011	0	18,87	12,5781	0,0895325	-29,3702	0		2,58106	1,455
13	3473,97	168,269	0	18,82	13,7913	0,107421	-29,37	0		2,58106	1,455
13	3474,07	168,527	0	18,78	14,91	0,125291	-29,3699	0		2,58107	1,45501
13	3474,17	168,785	0	18,74	15,9528	0,143158	-29,3697	0		2,58107	1,45501
13	3474,27	169,043	0	18,70	16,9338	0,16102	-29,3695	0		2,58107	1,45501
13	3474,37	169,301	0	18,66	17,8633	0,178876	-29,3693	0		2,58108	1,45501
13	3474,47	169,559	0	18,62	18,7494	0,196721	-29,369	0		2,58108	1,45501
13	3474,57	169,818	0	18,59	19,5975	0,214561	-29,3688	0		2,58108	1,45501
13	3474,67	170,076	0	18,55	20,412	0,232403	-29,3686	0		2,58108	1,45501
13	3474,77	170,334	0	18,51	21,197	0,250241	-29,3684	0		2,58109	1,45501
13	3474,87	170,592	0	18,47	21,9565	0,26806	-29,3682	0		2,58109	1,45501
13	3474,97	170,85	0	18,44	22,6931	0,285863	-29,368	0		2,58109	1,45501
13	3475,07	171,108	0	18,40	23,4089	0,303648	-29,3678	0		2,58109	1,45501



13	3475,17	171,366	0	18,367	24,1057	0,321418	-29,36750		2,5811	1,45501
13	3475,27	171,624	0	18,332	24,7852	0,339173	-29,36730		2,5811	1,45501
13	3475,37	171,882	0	18,294	25,4484	0,356917	-29,36710		2,5811	1,45501
13	3475,49	172,192	0	18,257	26,2247	0,378192	-29,36680		2,5811	1,45501
13	3475,64	172,564	0	18,196	27,1306	0,403698	-29,36650		2,58111	1,45502
13	3475,81	173,0181	0	18,137	28,1847	0,434263	-29,36620		2,58111	1,45502
13	3476,02	173,545	0	18,059	29,4069	0,470887	-29,36570		2,58112	1,45502
13	3476,27	174,187	0	17,968	30,8168	0,514817	-29,36520		2,58113	1,45502
13	3476,56	174,958	0	17,859	32,4389	0,56747	-29,36450		2,58113	1,45502
13	3476,92	175,883	0	17,723	34,2983	0,630588	-29,36370		2,58114	1,45502
13	3477,35	176,993	0	17,578	36,4268	0,705735	-29,40130		2,58115	1,45526
13	3477,87	178,325	0	17,448	38,8568	0,791997	-29,71970		2,58117	1,45718
13	3478,49	179,923	0	17,406	41,6286	0,88691	-30,53260		2,58117	1,46209
13	3479,23	181,841	0	17,421	44,7771	0,992556	-31,35310		2,58118	1,46708
13	3480,12	184,142	0	17,496	48,3346	1,11238	-31,85540		2,58122	1,47014
13	3481,19	186,904	0	17,556	52,3616	1,24971	-31,85970		2,58122	1,47017
13	3482,48	190,218	0	17,574	57,1534	1,40488	-31,09670		2,58124	1,46551
13	3484,02	194,197	0	17,451	63,1351	1,57825	-29,12780		2,58385	1,45362
13	3485,87	199,046	0	17,049	70,5239	1,74376	-25,29080		2,65974	1,43096



13	3488,08	205,049	0	16,183	79,454	1,96184	-19,127	0	2,75202	1,39585
13	3490,75	212,528	0	14,655	90,036	2,26074	-10,6443	0	2,86581	1,34972
13	3493,58	220,843	0	12,323	100,813	2,64128	-0,78885	0	2,99679	1,29841
13	3493,58	220,843	0	12,323	100,813	2,64112	-0,78885	0	2,99696	1,29841
13	3493,58	220,846	0	12,326	100,816	2,64124	-0,78560	0	2,9973	1,29839
13	3493,94	221,919	0	11,917	102,017	2,69649	0,55079	0	3,01492	1,29151
13	3497,78	233,869	0	8,332	114,452	3,35367	10,7315	0	3,20991	1,2403
13	3502,38	249,151	0	5,67	127,76	4,22086	15,7367	0	3,4291	1,21512
13	3507,9	268,714	0	3,885	142,325	5,25553	18,3454	0	3,65176	1,20188
13	3514,52	293,671	0	2,68	158,79	6,46973	19,82	0	3,87627	1,19434
13	3518,69	310,077	0	2,197	168,807	7,22291	20,5721	0	4,00076	1,19082
13	3518,69	310,077	0	2,197	168,807	7,22293	20,5721	0	4,00075	1,19082
13	3522,47	325,426	0	1,869	177,119	7,9288	21,6864	0	4,10927	1,18633
13	3532,01	365,860	0	1,312	193,782	9,77803	23,2296	0	4,36411	1,18018
13	3539,89	401,018	0	1,026	204,196	11,3688	23,8495	0	4,55708	1,17773

