

KG  
11366  
v. 609

Zone Star  
Observations and Reductions  
from May 26 1884 to Jan. 21 1885  
C. 47.























Observations of zone stars from May 26 '84 to Aug. 9 '84

Thread Intervals.

50°	3.205	068
51	.273	73
52	.346	77
53	.423	82
54	.505	87
55°	.592	

Log 15 time 0.11312<sub>m</sub> from Mar. 18 '84 to July 16 '84 (incl.)

" " 0.12780 " July 17 " Aug 9 '84 (incl.)

Log 15 time 0.11046<sub>m</sub> from Jan 8 to Mar 30 1885 (incl.)



1884phae.proj.1613

9.7087 0.9668 0.8794 1.2719 May 26 h=+39 184	9.7234 0.9673 0.7865 1.2862 May 31 h=+50 184	9.7234 0.9673 0.7865 1.2862 May 31 h=+50 184	May 26 208 54 13 55 14 +52 44 -10 54 290 53.0	9.6842 2451 -8.50 8.94 29 9.94 22 9.04 19 53 344 53 390 365 42.7 46.0 49.4 53.2 2.09 803 53 4606 3697 +9.09 51 +1.136 +7.30 +1.995 +2.160 -2001 +2 38.13 55 3640 -2.16 55 3424	May 30 72 53 12.6 14.5 47.4 340 4379 14.5 343 53 4390 +32.47 +111.91 +66 -21 -0.3 55 3623 -2.10 55 3413	
ΔT+in nland c rec K	Sum +1.533 Red. conit. -2020 +2 38.94 53 17.80	Sum +1.533 Red. conit. -2020 +2 38.94 53 17.80	Sum +1.533 Red. conit. -2001 +2 38.13 55 3640 -2.16 55 3424	Sum +1.533 Red. conit. -2001 +2 38.13 55 3640 -2.16 55 3424	Sum +1.533 Red. conit. -2001 +2 38.13 55 3640 -2.16 55 3424	
Leas L. P. M. T. L. R. M.	81 417 51.7 134 46.70 -522 52 31 38.58 41.48 51 68.7 33 35.05 -17 38.44 33 35.05 -9.03 +4.34 -4.85 +13.07 +3.53 +12 52 57.60 -17 28.29 52 33 28.43 May 26 h=+39 14 5 42 +52 41 -13 4 59.3 47.0	81 417 51.7 134 46.70 -522 52 31 38.58 41.48 51 68.7 33 35.05 -17 38.44 33 35.05 -9.03 +4.34 -4.85 +13.07 +3.53 +12 52 57.60 -17 28.29 52 33 28.43 May 26 h=+39 14 5 42 +52 41 -13 4 59.3 47.0	81 417 51.7 134 46.70 -522 52 31 38.58 41.48 51 68.7 33 35.05 -17 38.44 33 35.05 -9.03 +4.34 -4.85 +13.07 +3.53 +12 52 57.60 -17 28.29 52 33 28.43 May 26 h=+39 14 5 42 +52 41 -13 4 59.3 47.0	81 417 51.7 134 46.70 -522 52 31 38.58 41.48 51 68.7 33 35.05 -17 38.44 33 35.05 -9.03 +4.34 -4.85 +13.07 +3.53 +12 52 57.60 -17 28.29 52 33 28.43 May 26 h=+39 14 5 42 +52 41 -13 4 59.3 47.0	81 417 51.7 134 46.70 -522 52 31 38.58 41.48 51 68.7 33 35.05 -17 38.44 33 35.05 -9.03 +4.34 -4.85 +13.07 +3.53 +12 52 57.60 -17 28.29 52 33 28.43 May 26 h=+39 14 5 42 +52 41 -13 4 59.3 47.0	81 417 51.7 134 46.70 -522 52 31 38.58 41.48 51 68.7 33 35.05 -17 38.44 33 35.05 -9.03 +4.34 -4.85 +13.07 +3.53 +12 52 57.60 -17 28.29 52 33 28.43 May 26 h=+39 14 5 42 +52 41 -13 4 59.3 47.0
8	46.14 55 53.3 57.3 57.3 18.2 18.8 1556 518.4 +20.13 +111.91 +1.141 +1.110 +2.149 -19.41 +2 38.99 6 2.18	55 56 11.9 16.2 18.8 600 1200 +111.91 +1.141 +1.110 +2.149 -19.41 +2 38.99 6 2.18	55 56 11.9 16.2 18.8 600 1200 +111.91 +1.141 +1.110 +2.149 -19.41 +2 38.99 6 2.18	55 56 11.9 16.2 18.8 600 1200 +111.91 +1.141 +1.110 +2.149 -19.41 +2 38.99 6 2.18	55 56 11.9 16.2 18.8 600 1200 +111.91 +1.141 +1.110 +2.149 -19.41 +2 38.99 6 2.18	55 56 11.9 16.2 18.8 600 1200 +111.91 +1.141 +1.110 +2.149 -19.41 +2 38.99 6 2.18
26	43.9 53.4 163 46.15 -15.83 32.32 38 48.51 56 16.03 -17 37.86 -10 34 +10.66 +12 -17 27.52 52 38 38.17	43.9 53.4 163 46.15 -15.83 32.32 38 48.51 56 16.03 -17 37.86 -10 34 +10.66 +12 -17 27.52 52 38 38.17	43.9 53.4 163 46.15 -15.83 32.32 38 48.51 56 16.03 -17 37.86 -10 34 +10.66 +12 -17 27.52 52 38 38.17	43.9 53.4 163 46.15 -15.83 32.32 38 48.51 56 16.03 -17 37.86 -10 34 +10.66 +12 -17 27.52 52 38 38.17	43.9 53.4 163 46.15 -15.83 32.32 38 48.51 56 16.03 -17 37.86 -10 34 +10.66 +12 -17 27.52 52 38 38.17	43.9 53.4 163 46.15 -15.83 32.32 38 48.51 56 16.03 -17 37.86 -10 34 +10.66 +12 -17 27.52 52 38 38.17
52	56 16.03 -17 37.86 -10 34 +10.66 +12 -17 27.52 52 38 38.17	56 16.03 -17 37.86 -10 34 +10.66 +12 -17 27.52 52 38 38.17	56 16.03 -17 37.86 -10 34 +10.66 +12 -17 27.52 52 38 38.17	56 16.03 -17 37.86 -10 34 +10.66 +12 -17 27.52 52 38 38.17	56 16.03 -17 37.86 -10 34 +10.66 +12 -17 27.52 52 38 38.17	56 16.03 -17 37.86 -10 34 +10.66 +12 -17 27.52 52 38 38.17







[illegible]



June 5

15	527	16	<del>12</del>
	582		15
		17.80	17
		17.67	21
89		17.93	21

$$\begin{array}{r} 15 \quad 55.45 \quad 16 \quad 183 \\ + 2285 \quad + \quad 113 \\ + 1 \quad 5409 \quad - \\ - 2205 \quad 18 \quad 113 \\ + 250.10 \quad 18 \quad 113 \end{array}$$

+	11.70	97853
45	2.00	134922
	3.10	12378
	5.10	1.2424
45	25.50	451
-	14.25	54
45	8.25	20
	37 40.12	33
-17	4086	20
-	.14	5
-	.07	2
+	16.77	5
+	.14	17486
-17	2916	22 866
54	19 5926	

June 4

12

29	343	29	32
	381		33
	427	a+	38
P2			4

29	1151 384 +2630	29 38 37 +25 30 40 + 103 +
+1	5402	-
-2204		-
+24623		31 58 - 31 56

$+ 7.34$      $9.8070$   
 $0 \quad 385$      $1.4199$   
 $504$      $1.3400$   
 $889$   
 $0 \quad 44.45$   
 $-21.88$      $50$   
 $0 \quad 22.57$      $4 \quad 52$   
 $22 \quad 25.48$      $-4$   
 $-17 \quad 40.86$      $4 \quad 47$   
 $-$      $.19$   
 $-$      $.13$   
 $+$      $7.57$   
 $+$      $.04$   
 $-17 \quad 33.52$      $31 \quad 34.9$   
 $50 \quad 4 \quad 44.92$      $7 \quad 33.7$

15	358	16	123
	215		159
	460		194
			229
88			265

15	1233	16	970
	4.10		1940
	+3830	+	11420 <sup>30</sup>
			4824
+1	52.41	-	23479
			.03
	-2205	18	1181
			-1.77
+2	50.10	18	10.04

+	11.38	976537
45	329	158320
	420	146169m
	149	
45	3745	
	-28.95	54
45	8.50	20
37	39.85	941
-17	41.82	-5.68
	20	3.73
-	39	
	11	
+	11.39	
+	14	1747.99
-17	30.44	2253.83
54	1958.03	

June 5-

$$-12$$
$$\pm 1.36$$

29	304	29	342
	346		374
	396	$a^x$	406
			436
75			469

1046	29	4054
39	348	+25.73
+3140	30	627
	+	114.19
	+	39.55
+1 5253	-	2124
-2204	-	03
+246.23	31	5880
		-1.89
	31	56.91

+	1.23	9.58701
0	436	1.49693
	54.5	1.41706m
	981	
0	4905	
	-26.13	50
0	23.92	4
	22	50.84
22	25.43	-4.99
-17	41.82	4
-	27	43.85
-	14	2
-	2	11625
+	7.58	7
+	59	3208
-17	34.59	31
50	4361	34.87
		20.1
		32.

18	23	23		+2503	-569
	+49	58	-12		
	22	33			88990
	50	48			99703
21	382	31	467		90153
	384		500		
	320		533		
			565	03785	
92			595	88696	

31	996	2659	8.5686
	332021	534	18
	+ 19.98	+ 113.36	+ 1.334
	+	46	- 674
+ 1	5371	- .19	+ 5.05
		- .02	+ 727
- 2.254	23	4689	+ 1.892
+ 2 4866		- 1.89	
	23	4800	9.5533
			20.522

8	+ 6.83	952837	+	2737
	92	132060	+	2791
	318	1,22209	+	5528
	310		1,2425	
8	1550		9,5533	
	-1668	49	9,7426	
7	58.82	57 1538	9,8542	
14	49.53	-4.42		
-17	40.78	57 1116	- 9.98	
-	11		+ 3.25	
-	59.		- 289	
+	744		+ 1404	
+	.09	23 22.46	+ 4.42	
- 67	33.95	59 59.8		
49	54 8.75			

June 3

153	20	-13
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[illegible]

+	113.46
+	<del>52</del>
-	.02

$48$     $63$   
 $17.25$   
 $235$   
 $48$     $11.75$

21	39.0	21	47.7
	38.4		50.9
	43.4		54.0
			57.0
94			65

21	1088	24	2701
	368	21	5402
	+1775	+	11438
		+	3956
+	5254		21247
			.03
-	2254	23	4656
	+4816		-184
+	2	23	4472

8	+ 686	950857	
	58	124920	
	172	117069	"
	230		
8	11.50	+30	
	-1481	49	
7	5669	57	1640
14	5136		-484
-17	41.82	57	1186
-	99		
-	58		
+	744		
+	69	23 22.18	
-17	34.96	0	0.2
49	57 9.54		

June 4 203 09

 $-.12$ 

30	203	30	02
	262		35
	322		72
			10.5
8.3			140

	787	354
30	262330	708
	-1915	+11581
	+	47
+1	545	-20
		-.03
-2136		32 1.13
+2 4623		-1.90
	31	5817

+	10.24	9.77609	
47	1.589	1.28217	+
	12.2	1.17138	
	1.2		
8	5.65		
47	5.00		
	+14.84	53	
48	20.89	16	56.84
34	27.46		-3.44
-17	40.66	16	51.40
-	.09		
-	.56		
+	10.76		
+	.13	31	37.81
-17	30.62	19	37.6
53	16	46.60	



799  
June 5  
h m s  
13 31 39  
+53 20  
30 511  
259  
-136  
30 188 30 394  
212 329  
233 364  
264 400  
78 380 433  
30 3640  
-27.63  
30 2334 30 874  
-14.57 + 114.58 +1.351  
+ 44.62 -1.756  
+1 52.44 -2.720 +.474  
- .02 +.863  
-2136 32 1.21 +19.32  
+2 46.23 -1.93  
31 5928

+1022 977609  
48 46 1.16 34.6m  
150 1.05267  
196  
48 9.80  
+11.29 53  
48 21.09 16 5566  
34 2726 -5.65  
-17 41.82 16 50.01 -992  
- .06 +35.9  
- .58 -264  
+ 1073 +1462  
+ .13 31 37.92 +565  
-17 31.60 19 36.2  
53 16 45.44

June 5  
h m s  
13 34 6  
+53 3  
36 194  
9.6  
35 11.3 35 28  
145 116.4  
178 95  
133  
166  
35 9.78  
436 +27.45  
35 14.53 35 37.23  
+22.70 + 114.19 +1257  
+ 44.61 -742  
+1 52.45 -22.22 +466  
- .02 +906  
-2107 37 2968 +1887  
+2 44.43 -1.89  
37 27.79

+9.56 977896  
4 404 1.25603  
500 1.24711m  
840  
4 45.09 53  
-17.66  
4 27.34 0 48.75  
18 21.01 -5.67  
-17 41.82 0 43.08 -9.81  
- .14 +3.79  
- .86 -2.73  
+ 10.44 +1442  
+ .12 37 6.72 +567  
-17 32.26 3 27.5  
53 0 39.19

797  
June 3  
13 35 16  
+57 10  
34 279  
ch. f 157

80

59 6.1  
18.0  
241  
59 12.05

June 3  
13 34 16  
+57 13  
36 279  
ch. f 187

54 29.7  
41.0  
707  
54 35.35

June 4 243 57 9.6085  
2193  
+2399 - .673  
-12  
8.9171  
9.9609  
9.0260  
33 513 33 32.8  
37.6 358  
31.3 41.89  
23.3 0.3800  
35.5 8.8780m  
78  
33 28.94 8.9867  
+26.31 8.6345  
33 26.60 33 55.25  
+28.65 + 113.81 +1.283  
+ 44 - .690  
+1 54.03 - .19 +.477 +1 52.50 -2182 +4.48  
- .03 +.850  
-2160 35 49.28 +1.920 -2160  
+2 45.06 -1.92  
35 47.36 9.6085m +2 44.97  
9.8911  
9.9609  
9.4996  
+31.59 +7.53 9.79731  
59 59 145.712 27.24159 12.9 1.55522  
189 1.36755m 252 1.46565m  
248 1.2631m 381  
59 12.40 51 9.608559 19.05 57  
-23.31 51 9.7696 -29.22 57  
58 49.09 6 26.08 9.8520 58 49.83 6 24.23  
23 59.26 -5.05 23 58.52 -5.26  
-17 40.86 6 21.03 -9.80 -17 41.82 6 18.97 -984  
- .22 +3.71 - .34 +3.73  
- .76 -2.89 - .77 -2.72  
+ 856 +1403 +8.54 +1409  
+ .10 35 25.76 +5.05 + .10 35 25.69 +5.26  
-17 33.18 7 6.1  
51 6 18.90 51 6 16.70

+7.68 979731  
59 59 145.712 27.24159 12.9 1.55522  
189 1.36755m 252 1.46565m  
248 1.2631m 381  
59 12.40 51 9.608559 19.05 57  
-23.31 51 9.7696 -29.22 57  
58 49.09 6 26.08 9.8520 58 49.83 6 24.23  
23 59.26 -5.05 23 58.52 -5.26  
-17 40.86 6 21.03 -9.80 -17 41.82 6 18.97 -984  
- .22 +3.71 - .34 +3.73  
- .76 -2.89 - .77 -2.72  
+ 856 +1403 +8.54 +1409  
+ .10 35 25.76 +5.05 + .10 35 25.69 +5.26  
-17 33.18 7 6.1  
51 6 18.90 51 6 16.70

June 4 204 25 9.6163m  
2048  
+2410  
-12  
8.9026  
9.9593  
9.0173  
36 187 36 50  
187 83  
255 11.3  
2-1 14.5  
177 0.3820  
90 36 11.36 8.9766m  
-25.79 8.6336m  
36 18.70 35 45.57  
-32.13 + 113.80 +1.289  
+ 42 - .665  
+1 54.02 - .19 +.466 +1 52.55 -212.20 +4.37  
- .03 +.849  
-2169 37 39.57 +1.939 -2169  
+2 44.43 -1.91  
37 37.63 9.6163m +2 44.43  
9.8853  
9.9593  
9.5016  
+31.74 +6.70 9.60610  
54 43.9 1.52022 27.79 54 53.1 1.35679m  
574 1.48944 +5.953 50 1.27601  
1013 1.2618m 1181  
54 50.65 9.6163 54 59.05  
27.54 25.76 50 55.97 9.7747 +18.88 50  
55 16.41 18.19 57.2 9.8446 55 17.93 9 55.30  
27 31.44 30.19 -4.87 27 30.42 -5.09  
-17 40.86 9 51.10 -9.77 -17 41.82 9 50.21 -9.81  
- .26 +3.78 - .14 +3.80  
- .86 -2.93 - .90 -2.75  
+ 767 +13.79 +7.65 37 15.94 +13.85  
+ .09 37 15.94 +4.87 + .09 37 15.94 +5.09  
-17 34.22 12 35.5  
50 9 57.48  
49.33

+6.64 9.60610  
54 43.9 1.52022 27.79 54 53.1 1.35679m  
574 1.48944 +5.953 50 1.27601  
1013 1.2618m 1181  
54 50.65 9.6163 54 59.05  
27.54 25.76 50 55.97 9.7747 +18.88 50  
55 16.41 18.19 57.2 9.8446 55 17.93 9 55.30  
27 31.44 30.19 -4.87 27 30.42 -5.09  
-17 40.86 9 51.10 -9.77 -17 41.82 9 50.21 -9.81  
- .26 +3.78 - .14 +3.80  
- .86 -2.93 - .90 -2.75  
+ 767 +13.79 +7.65 37 15.94 +13.85  
+ .09 37 15.94 +4.87 + .09 37 15.94 +5.09  
-17 34.22 12 35.5  
50 9 57.48  
49.33



[illegible]



798									
June 4 212 22	9.7286	June 4 212 59	9.7359	June 4 213 3	9.7367	June 4 213 16	9.7392		
14 8 59	+2121	14 11 32	+2153	14 11 57	+2169	14 12 44	+2023	-1.049	
+53 6 -12		+51 41 -12		+57 6 -12		+53 4 -13			
8 166		16 493		11 78		12 34		8.9792	
103		472		119		99		9.9223	
7 52 7	385	9 235	9 290	10 195	10 134	11 388	11 36	9.0657	
8 56	318	397	302	244	160	444	70		
14 8	385	373	352		190	504	105		
	388		387	0.3330			137	0.3060	
92	420	8.8743	90	420	8.8491	83	420	176	0.3016
		8.9716			8.9547				8.9880
		8.9735			8.7669				8.8049
7 2669	1766		903	3542	439	948	1336	524	
8 56	3532		303	10 203	10 2195	10 180	4453	10.5	
+2645	+11379	+1134	+3186	+11379	+1151	+1160	-3405	+11379	+1082
2362	47	-684		44	-646	-632		50	-729
+1 5404	-20	+461	+1 5401	-19	+443	+437	+1 5403	-23	+478
	.02	+1.171		.03	+1.153	+1.142		.03	+1.259
-1909	9 2936	+2.082	-1938	11 5604	+2.101	+2.107	-18.22	13 4.51	+2.090
+2 3255	9 2728	9.7286	+2 3147	11 3394	9.7359	9.7367	+2 3102	13 2.42	9.7392
		9.9026			9.8943	9.8909			9.9135
		9.9267			9.9237	9.9234			9.9223
		9.6312			9.6302	9.6276			9.6527
+10.11	137328	+4278	+8.53	9.79240	+4268	+4242	+11.85	9.75787	+4495
2 215	142243	2.608	27 87	150325	2.693	2.726	2 549	1.53212	2487
33.5	1.26302	1.2289	297	140877	1.2259	1.2256	72	1.40311	+6982
55 0		1.2286	27 14.85	297	9.7359	9.7367	21	1.2245	1.2245
2 27.50		9.8380	26 4922	38 2680	9.8427	9.8431	3 1.05	9.7392	9.7392
-1841	-2661 53	8.51	55 59.13	-533	9.8180	9.8143	+2530 55	9.8440	9.8358
2 290	688	3 1071	55 59.13	-533	9.8180	9.8143	26.35	1 5299	
53 20	4446	326	55 59.13	-533	9.8180	9.8143	19 22.00	-6.13	-8.97
-17 4086	3 474	-9.06	55 59.13	-533	9.8180	9.8143	17 4086	1 46.86	+5.01
-18	275	+4.89	55 59.13	-533	9.8180	9.8143	17 4086	-30	-3.43
-43		-339	55 59.13	-533	9.8180	9.8143	17 4086	54	+13.52
+1060		+1332	55 59.13	-533	9.8180	9.8143	17 4086	+12.54	+6.13
+12	9 8.19	+5.76	55 59.13	-533	9.8180	9.8143	17 4086	+15	
-17 30.75	5 35.3		55 59.13	-533	9.8180	9.8143	17 4086	12 44.20	
53 3 460			55 59.13	-533	9.8180	9.8143	17 4086	4 17.9	
2 5840			55 59.13	-533	9.8180	9.8143	17 4086	55 1 41.14	
June 4 217 26	9.7838	June 4 217 49	9.7876	June 4 218 7	9.7905	June 4 218 39	9.7956		
14 29 23	+2052	14 30 53	+2085	14 32 9	+2087	14 34 17	+1.900	-1.172	
+57 29 -13		+50 20 -13		+50 4 -13		+54 33 -13			
28 41.8		30 11.5		31 27.0		33 392		8.9711	
348		25.1		25		388		9.8926	
37 58.0	27 439	28 41.6	89 151	30 4.9	30 388	32 13	32 355	9.0603	
41.4	475	466	184	10.3	317	73	390		
456	503	510	317	17.0	350	115	484		
	530	347			383		464	0.2788	
93	568	380			415		500	8.8634	
		8.9291			8.9162			8.9529	
		8.8131			8.8062			8.8559	
1250	3515	1392	1079	30 32	1753	32 300	3136		
417 37	5050	38 4640	37 318	30 10.330	3506	32 683	4272		
+8.63	+11379	+35.18	+11379	+2433	+11379	+3605	+11379	+1016	
	44	-607	47	-580	-572		49	-668	
+1 5400	-21	+418	+1 5398	-20	+405	+1 5402	-22	+441	
	.02	+1.283		.03	+1.263		.03	+1416	
1848	29 44.30	+2.191	31 1556	-2.20	-1879	-17.11	34 3674	+2.205	
+2 2337	29 42.11	9.7838	+2 2265	31 13.36	9.7876	+2 21.03	34 3454	9.7956	
		9.8932			9.8821			9.9109	
		9.8978			9.8976			9.8926	
		9.6770			9.6737			9.9705	
+8.41	9.79431	+4.753	+7.03	9.80504	+4.717	+6.78	9.80746	+5087	
38 408	683601	2703	47 530	154630	2771	3 299	138614	2517	
530	0.84344	7.456	60.1	46446	7.488	43.9	130672	7604	
940		1.2020	1190		1.1998	738		11948	
38 47.02		9.7838	47 59.50		9.7876	3 36.90		9.7956	
-6.97	51	9.8725	-29.14	50	9.8744	-2026	50	9.8810	
38 40.03	26 3587	9.7930	47 30.36	17 44.16	9.7837	3 16.64	1 57.63	9.8035	
44 8.32	-5.62		35 17.99	-5.65		19 31.71	-5.40		
-17 4086	26 30.25	-8.52	-17 4086	17 38.71	-8.47	-17 4086	1 52.23	-8.38	
-102		+3.56	-17 4086	17 38.71	-8.47	-17 4086	1 52.23	+5.71	
-68		-3.67	-17 4086	17 38.71	-8.47	-17 4086	1 52.23	-3.74	
+902		+12.25	-17 4086	17 38.71	-8.47	-17 4086	1 52.23	+12.55	
+11	29 23.63	+5.62	-17 4086	17 38.71	-8.47	-17 4086	1 52.23	+6.14	
-17 32.45	28 53.6		-17 4086	17 38.71	-8.47	-17 4086	1 52.23		
51 26 27.46			50 17 37.13			50 1 50.85			



798															
June 4 215 42 9.7666				June 4 216 43 9.7766				June 4 216 58 9.7779				June 4 217 14 9.7818			
22 19				22 29				22 27				22 26			
14 22 25 +2099 - .973				14 26 30 +2093 - .999				14 27 31 +2063 - .1009				14 28 33 +2099 - .973			
+57 18 -13				+57 21 -13				+57 28 -13				+57 18 -13			
21 434 235				25 488 245				26 496 333				27 513 239			
20 42.1 20 46.2				24 31.5 24 50.8				25 38.1 25 49.6				26 34.6 26 55.0			
48.4 49.7				36.4 53.8				32.6 56.9				40.6 58.7			
58.6 52.5				41.0 57.6				38.0 58.0				45.5 50.0			
55.8 0.3220				0.8 0.3166				59.4 0.3145				50.0 0.3220			
93 59.2 8.8293				92 4.2 8.8247				91 3.8 8.8250				80 8.0 8.8042			
8.9371				8.9322				8.9318				8.9191			
8.7936				8.8048				8.8084				8.7989			
1441 2634				1089 2872				987 2811				1207 3084			
20 48.0 20 52.7				24 36.3 24 57.4				25 32.9 25 56.2				26 40.3 26 58.7			
+4.65 + 113.79				+2.14 + 113.79				+2.33 + 113.79				+2.45 + 113.79			
+ 44 - .617				+ 44 - .611				+ 44 - .611				+ 42 - .583			
+1 54.00 - .21 + 425				+1 53.99 - .21 + 421				+1 54.00 - .21 + 420				+1 53.98 - .20 + 408.5			
- .02 + 1227				- .03 + 1259				- .02 + 1267				- .03 + 1248			
-18.90 22 46.68 +2.158				-18.67 26 51.43 +2.178				-18.58 27 50.22 +2.181				-18.90 28 53.66 +2.198			
+2 26.70 -2.16				+2 24.81 -2.18				+2 24.36 -2.18				+2 23.82 -2.19			
22 44.52 9.7666				26 48.25 9.7766				27 50.22 9.7779				28 53.66 9.7818			
9.8921				9.8925				9.8932				9.8958			
9.9096				9.9040				9.9025				9.9010			
9.6582				9.6691				9.6723				9.6772			
+ 8.07 9.79605				+ 8.48 9.79558				+ 8.15 9.79447				+ 7.69 9.80534			
49 39.0 2.66745				46 36.8 1.32510				38 50.8 1.36773				50 32.9 1.33143			
42.2 0.57662				49.7 1.22380				42 1.27532				35.0 1.24989			
712 1.2118				8.65 1.2062				115.0 1.2047				57.9 1.2032			
49 35.60				46 43.25				38 57.50				50 28.95			
-3.772 5.151373				-16.74 51 9				-18.85 51				-17.78 50			
49 31.83 48 57.88				46 26.51 18 48.46				38 38.65 26 36.99				50 11.17 15 4.01			
33 16.52 33 50.44				36 21.84 -5.59				44 9.70 -5.62				32 37.18 -5.62			
-17 40.86 46 12.18				-17 40.86 18 43.87				-17 40.86 26 31.37				-17 40.86 14 58.44			
- .01 15 38.18				- .12 31				- .14 35				- .12 59			
- .83 -3.57				- .31 -3.63				- .72 -3.64				- .09 -3.65			
+ 8.80 +12.50				+ 8.80 +12.35				+ 8.90 +12.33				+ 7.80 +12.08			
+ 11 22.25.62 +5.55				+ 11 26.30.68 +5.59				+ 11 27.29.46 +5.62				+ 10 28.34.57 +5.54			
-17 32.79 18 4.9				-17 32.38 21 8.7				-17 32.71 28 65.7				-17 33.17 17 2.4			
51 46.961				57 18 40.98				57 26 28.84				50 14.56.32			
15 85.66															







800										801										10									
June 9 208 56 9.6847										June 14 <del>211 32</del> 9.7185										June 14									
The cor- 13 55 32 +2213 -1.859										14 5 46 +2189 -1.883										-09									
rection 53 4 -16 8.9473										5 20 484 8.9254										-09									
applied 54 37.3 9.9421										9.9306																			
to (A+M) 9.0448										9.0310																			
ann. of 53 14.5 53 4.25 4.59										4 31.3 4 51 84										4 44.0 4 30									
constab. 20.5 4.93										39.3 84										4.80 60									
and fixed 26.0 4.93										46.2 13.0 0.3402										5.20 139									
R. & isop 8.2 5.60 0.3450										9.2 18.7 8.8560										9.5 160									
75-compan 8.2 5.60 8.8894										9.2 18.7 8.8560										9.5 160									
tation of (A+M) 610 2463 8.7295										1168 595 8.7495										1440 475									
53 30.3 35.3 49.26 +2893 +116.10 -7.23										4 38.93 4 11.90 +27.03 +116.09 +12.12										4 48.04 4 95.48									
+1 56.16 -19.93 +2 38.13										+1 56.03 -19.70 +2 33.90										+1 58.13 -19.70 +2 33.90									
55 45.42 -1.91 55 43.51 9.6847										55 45.33 -1.82 55 43.51 9.7185										55 43.51 9.7185									
9.9025 9.9421 9.5872										9.8943 9.9306 9.6128										9.79240 9.79240									
+ 9.59 9.77879 +3865 +10.31 9.77879										+ 8.63 9.77240 +4100 +9.02 9.77240										+ 8.63 9.77240 +4100 +9.02 9.77240									
3 45.5 1.46135 2.607 5.2 1.3 5326 1.2443										26 30.1 1.43185 2.693 26 22.8 1.58569										26 22.8 1.58569									
1037 9.6847 3 4.10 9.8112 9.8446										43.7 1.33737 738 1.2328 9.7185 9.8321 9.8249										34.0 1.49121 568 26 28.40 30.99 57 38 1590									
3 51.85 -22.56 53 29.27 1 4707 19 19.06 -6.65										26 36.40 +21.75 51 26 58.65 38 16.75 55 49.70 -6.56										26 58.65 38 16.75 55 49.70 -6.56									
-17 41.58 1 14.42 -9.72 -17 42.08 1 38.58										-17 41.58 38 10.19 -9.46 -17 42.08 38 8.49										-17 42.08 38 8.49 -9.72									
-2.20 -3.0 56 +14.06 +1164										-2.20 -3.0 56 +14.06 +1164										-2.20 -3.0 56 +14.06 +1164									
+ 10.39 +12.2 5523.58 +6.65 +17 31.77 4 16.7										+ 10.39 +12.2 5523.58 +6.65 +17 31.77 4 16.7										+ 10.39 +12.2 5523.58 +6.65 +17 31.77 4 16.7									
-17 31.99 4 18.65 53 1 37.98										-17 31.99 4 18.65 53 1 37.98										-17 31.99 4 18.65 53 1 37.98									
June 9 213 16 9.7392										June 9 215 52 9.7678										June 9 215 55 9.7684									
14 13 44 +2023 -1.049										14 23 55 +1976 -1.096										14 23 55 +1976 -1.096									
12 3.4 8.9792 9.9223										22 45.0 28.1 9.9698 9.9087										22 45.0 28.1 9.9698 9.9087									
10 57.2 14 1.0 9.0657										21 54 31 25.7 9.0594										22 43.4 32 6.7 9.0601									
6.5 4.5 12.3 0.3060 8.9015										9.4 29.0 32.6 36.0 29.7 8.8785										49.2 10.4 13.5 17.6 31.5 8.8793									
90 11.8 15.6 8.8049										8.3 29.7 8.8292										9.4 0 31.5 8.8285									
11 1980 412 60011 8.24 +2.24 +116.09 +1.120										21 28.7 1630 8.8785 8.8292										22 13.90 8.8285									
+1 56.15 -18.22 +2 31.02										+1 56.13 -17.19 -2 26.34										+1 56.14 -17.19 -2 26.34									
13 43.9 -1.99 13 2.40 9.7392										23 28.73 -2.04 23 25.69 9.7678										23 25.69 9.7678									
9.9135 9.9223 9.6527										9.9104 9.9087 9.6782										9.9104 9.9087 9.6782									
+ 11.96 9.75787 +4495 +12.06 9.75787										+ 11.24 9.76360 +4766 +10.43 9.76360										+ 11.24 9.76360 +4766 +10.43 9.76360									
3 180 0.25025 2.487 8.31 0.22124 1.6982										88 370 1.36229 4.95 1.23901 8.65 1.2109										33 82 1.50236 3.08 1.67908 2.90 1.2106									
511 1.2245 9.7392 2 43.15 +4217.55										38 43.25 -17.34 54 38 25.91 26 52.10 9.8191										33 14.52 47.76 54 22.6 31 14.44 9.8192									
3 25.55 -16.6 55 23.89 1 5484 19 24.46 -7.24										44 22.44 -7.25 44 22.44 -7.25										48 46.09 -7.27 48 46.09 -7.27									
-17 41.58 1 47.60 -9.28 -17 42.08 1 44.88										-17 41.58 26 44.88 -9.00 -17 42.08 31 7.17										-17 42.08 31 7.17 -8.99									
-2.37 -49 +1398 +1321										-2.37 -49 +1398 +1321										-2.37 -49 +1398 +1321									
+ 12.42 +1.15 12 44.18 +7.24										+ 11.91 +1.14 23 8.90 +7.25										+ 11.91 +1.14 23 8.90 +7.25									
-17 29.62 4 18.6 55 1 42.88										-17 30.34 29 17.2 54 26 40.86 11.										-17 31.65 54 31 40.1									



820

June 14	215 48	9.7671	June 9	216 43	9.7766	June 14	June 9	216 58	9.7791
14 22 55	+1976	-1.096	14 36 30	+2079	-998	14 27 30	+2063	-1.029	8.9225
+54 32	-10		+51 21	-18		+51 38	-18		9.9025
22 150		8.9704	25 48		8.9204	26 496		8.9225	9.9025
571		9.9091	265		9.9040	333		9.9025	9.9025
21 53 21	9.0598	34 330 34	487	24 289 24	463	25 394 25	476	9.0293	
576		300	514	338	499	344	509		
33		347	553	893	537	381	541		
95		584	568		568		575	0.3145	
1748		17	88244	95	599	82	58	8.8250	
588		8.8267	8.8046	1020	2666	1019	2709	8.9318	
-421		8.8267	8.8046	34024	5332	35 359 35	548	8.8084	
+1 5813-06		+1 5611	+1 5611	+1932	+11781-07	+2221	+11608	+1.142	
-1778		-1867	-1867	+1282	+11781-07	+1221	+11608	-623	
+22643		+2241	+2241	+2098	+2024	+2241	+2024	+2.103	
23 1427		26 5131	26 5131	-1867	-1867	-1858	-1858	9.7791	
-197		-210	-210	+241	+241	+241	+241	9.8732	
23 1230		26 4921	26 4921	26 4938-06	26 4938-06	27 1819	27 1819	9.9025	
35 9.9106		9.8924	9.8924					9.6723	
9.9091		9.9040	9.9040					+4702	
9.6777		9.6690	9.6690					2703	
+12.30		+4761	+4761	+8.96	9.779558	+8.11	9.779447	+7405	
35 199		46 411	46 411	46 411	125601	38 458	130557	1.204	
391		542	542	466	119471	13	1.21316	9.7791	
490		953	953	821	4120	1071	5355	9.8695	
35 245065		9.7671	9.7671	46 4120	51	38 372-1	26 3767	9.77957	
+317954		9.8622	9.8622	46 2554	18 4969	44 11.14	26 3767	-8.87	
35 5629		9.8197	9.8197	46 2554	18 4969	-17 4158	26 3767	+567	
54 46 5206		36 2175	36 2175	36 2281	-770	-17 4158	26 3767	-251	
-17 4208		-17 4158	-17 4158	-17 4208	18 4179	-17 4158	26 3767	+1256	
-46		18	18	-17 4208	18 4179	-17 4158	26 3767	+679	
-47		32	32	-17 4208	18 4179	-17 4158	26 3767	-8.87	
+1268		+8.71	+8.71	-17 4208	18 4179	-17 4158	26 3767	+567	
+15		+8.20	+8.20	-17 4208	18 4179	-17 4158	26 3767	-251	
-17 2978		26 3054	26 3054	-17 4208	18 4179	-17 4158	26 3767	+1256	
54 29 9.98		21 6.5	21 6.5	-17 4208	18 4179	-17 4158	26 3767	+679	
1012		51 184017	51 184017	-17 4208	18 4179	-17 4158	26 3767	-8.87	
June 14		June 9	217 49	9.7876	June 14	June 9	218 7	9.7905	
14 39 23		14 30 53	+2085	-987	14 32 9	+2087	-985	9.9006	
+51 29		+50 20	-18		+50 4	-18		9.8958	
28 418		30 11.5		8.9047	31 270			9.0161	
348		251		9.8976	8.5				
37 330 27	340	39 93 29	132	38 460 29	110	29 595 30	365	9.0161	
347	425	147	164	509	147	30	397		
36.5	455	18.5	19.5	554	17.8	50	330		
	492	22.7	23.7		20.8		360	0.3195	
90	524	88	25.7	92	340	75	392	8.7964	
			8.9162					8.9119	
			8.8062					8.8066	
742	2886	425	975	1523	883	1905	1644		
34 327	4572	148	190	508	1786	30 330 30	329		
+2099	+117.81-04	+532	+1120	+2689	+11781-04	+2938	+11608	+1.155	
			+32				+32	-583	
+1 5809-06		+1 5610	-28	+1 5806-06		+1 5610	-28	+277	
-1848		-1877	31	-1877		-1877	32	+1288	
+2 2337		+2 2265	31	+2 2265		+2 2211	32	+2137	
29 4381		31 1560	-2.13	31 1572		32 2898	-2.14	9.7905	
-2.04		31 1347		31 1366-06		32 2684		9.8843	
29 4177								9.8958	
								9.6750	
+8.65		+7.34		+7.61		+6.64		+4732	
38 530	9.79431	36.1	980	445	980	3 312	146805	+2787	
40	1.22944	309	0.72673	558	1.35048	470	1.38863	+7519	
1170		60	489	1603	4975	782		1.1980	
38 58.50		47 33.00		47 50.15		3 39.10	+1	9.7905	
-16.96		47 44.50		47 22.44		-24.47	50	9.8762	
38 41.54	26 3338	47 28.58	17 4555	47 27.74	17 46.14	3 15.63	1 5778	9.7803	
44 6.81	-777	35 19.78	-6.63	35 20.65	-760	19 32.72	-6.61		
-17 41208	26 25.61	-17 4158	17 3895	-17 4208	17 3858	-17 4158	1 5812	-8.73	
-12		-12		-12		-12		+5.76	
+72		-138		-138		-138		-2.55	
+938	2323	+1263		+1232		+1232		+12.13	
+11	29 27.87	+7.77		+6.63		+7.60		+6.61	
-17 33.43	28 49.0	-17 34.24	20 1.5	-17 34.47	20 1.2	-17 34.94	4 13.3		
57 26 24.73		50 17 38.24		50 17 38.55		50 17 38.55			



801

June 14

June 14

-10

25 243 25 456  
294 488  
337 520  
533  
588

25 293 25 5210  
+2297 + 11781.04  
+ 47 - 615

+1 5809.06 - .16 +.158  
- .03 +.1309  
-18.58 27 5019 +2.029  
+2 2436 27 1816.06

+ 8.63 979447  
38 520 1.36116  
32 1.26875m  
1152  
38 5760  
38 3403 26 3587  
44 932 -7.74  
17 4208 26 2813 -9.14  
- .14 +.554  
- .72 -1.37  
+ 938 +.1241  
+ .11 27 29.52 +7.74  
-17 3345 28 52.5  
57 26 27.24

June 14

-10

29 595 30 244  
35 378  
85 511  
342  
375

1915 1550  
383.30 3102  
-0.73 + 117.81.04 +.1190  
+2217 + 44 -576

+1 5806.06 - .16 +.151  
- .03 +.1303  
-18.19 32 2906 +2.068  
+2 22.11 32 2699.06

+ 7.15 980746  
3 336 44340.9  
4581.35467m  
784  
3 39.20  
+22.63 50  
3 16.57 1 5685  
19 3178 -7.56  
-17 4208 1 4929 -9.00  
- .20 4929 +5.68  
- .65 -1.39  
+ 791 +.1227  
+ .09 32 8.14 +7.56  
-17 34.93 41 11.4  
50 1 49.70

800

June 9

217 14

97818

June 14

14 28 33  
+50 18 -18  
27 513  
1 23.9

26 525 26 533  
377 563  
425 597  
37 0.3220  
90 60 8.8049  
8.7191  
8.7799m

26 1127 26 2980  
378 26 5960  
+2203 + 11668  
+ 32 -595  
+1 5610 - .28 +.282  
- .02 +.1269  
-18.90 28 5570 +2.118  
+2 2382 28 5358 9.7818  
9.8858  
9.9010m  
9.6676

+ 7.52 980534 +4652 + 8.07 980534  
50 197 1.34301 2774 50 168 1.20493  
332 1.26147m +.7426 375 1.12339m  
529 22.15  
50 26.45 50 22.15  
-15.26 50 -13.29  
50 8.19 15 610 50 8.86 15 548  
32 40.16 -6.59 32 39.49 -7.54  
-17 4158 14 59.51 -884 -17 4208 14 57.94  
- .13 +.564  
- .07 -252  
+ 763 +.1231 + 8.12  
+ .09 28 34.68 +6.59 + .09 28 34.61 +7.54  
-17 3406 17 23.3 -17 3401 17 21.8  
50 1458.58 50 1457.41

June 9

218 39

97956

June 14

14 34 14  
+52 20 -19  
33 34.3  
254

32 48 32 57  
82 90  
15.0 12.4  
15.6 19.0  
+2200  
32 280 620  
32 3332 1244  
+3007 + 116.08  
+ 35 -628  
+1 5610 - .31 +.289  
- .02 +.1369  
-17.93 34 3550 +2.133  
+2 2103 34 3387 9.7956  
9.8983  
9.8926  
9.6939  
+4942 + 9.67 9.78609  
47 14.0 1.47813 2653 47 21.9 1.56074  
278 1.37734m +.7595 335 1.45995m  
418 1.1948  
47 20.90 52 554  
-2884 52 27.70  
46 57.06 18 1889 -2884 52 46 58.88 18 17.08  
35 51.28 -7.99 35 49.49 -7.99  
-17 4158 18 11.89 -8.67 -17 4208 18 9.09 -8.93  
- .24 +.582  
- .41 -2.58  
+ 771 +.1243 + 10.39  
+ .12 34 15.44 +7.00 + .13 34 15.43 +7.99  
-17 3240 20 32.9 -17 3241 20 30.1  
52 18 9.71 52 18 7.41

+ 9.18 978609 +4942 + 9.67 9.78609  
47 14.0 1.47813 2653 47 21.9 1.56074  
278 1.37734m +.7595 335 1.45995m  
418 1.1948  
47 20.90 52 554  
-2884 52 27.70  
46 57.06 18 1889 -2884 52 46 58.88 18 17.08  
35 51.28 -7.99 35 49.49 -7.99  
-17 4158 18 11.89 -8.67 -17 4208 18 9.09 -8.93  
- .24 +.582  
- .41 -2.58  
+ 771 +.1243 + 10.39  
+ .12 34 15.44 +7.00 + .13 34 15.43 +7.99  
-17 3240 20 32.9 -17 3241 20 30.1  
52 18 9.71 52 18 7.41

+ 9.18 978609 +4942 + 9.67 9.78609  
47 14.0 1.47813 2653 47 21.9 1.56074  
278 1.37734m +.7595 335 1.45995m  
418 1.1948  
47 20.90 52 554  
-2884 52 27.70  
46 57.06 18 1889 -2884 52 46 58.88 18 17.08  
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+ 9.18 978609 +4942 + 9.67 9.78609  
47 14.0 1.47813 2653 47 21.9 1.56074  
278 1.37734m +.7595 335 1.45995m  
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+ .12 34 15.44 +7.00 + .13 34 15.43 +7.99  
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June 9

217 26

97838

14 29 33  
+51 29 -18  
28 418  
388

27 382 27 412  
325 445  
382 462  
512  
544

27 989 27 3395  
3297 + 11608  
+1495 + 34

+1 5611 - .29 +.288  
- .02 +.1308  
-18.48 29 4401 +2.113  
+2 2337 29 4190 9.7808  
9.8932  
9.8978  
9.6770  
+4753  
2703  
+7456  
1.2020  
9.7838  
9.8725  
9.7730

+ 8.18 979431  
38 437 1.17406  
582 1.08149m  
1019  
38 5095  
-1206 51  
38 3889 26 3606  
44 946 -6.82  
-17 4158 26 29.24 -8.81  
- .06 +.567  
- .68 -253  
+ 8.81 -1249  
+ .11 29 23.42 +6.82  
-17 3340 28 52.6  
51 26 27.88

June 9

218 39

97956

14 34 17  
+54 33 -19  
33 39.2  
38.8

32 412 32 333  
470 373  
532 408  
440  
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1404 20.28  
32 468033 40.6  
-624 + 116.08  
+ 38 -681  
+1 5611 - .33 +.304  
- .02 +.1443  
-17.11 34 3667 +2.118  
+2 2103 34 3453 9.7756  
9.7109  
9.8926  
9.7665

+ 11.41 976342 +5206  
33 265 0.79518m 23.7  
402 0.67172 +174.04  
667 1.1744  
33 33.35 97956  
+4.70 54 988470  
33 38.05 31 4013 98035  
49 10.30 -2.326  
-17 4158 31 32.4 -8.67  
- .01 79 +582  
- .65 -2638  
+ 11.93 +1279  
+ .14 34 17.44 +7.32  
-17 3017 33 53.5  
54 31 28.72



801	June 14	June 9	218 56	9.7982	June 14	June 9	219 27	9.8030
14 34 17	14 35 24	14 35 24	+1.918	2640	14 37 28	14 37 28	+1.989	2317
54 33	54 33	54 33	-19	-1.154	54 33	54 33	-19	-1.083
33 392	33 392	33 392	8.9618	8.9618	33 392	33 392	8.9295	8.9295
388	388	388	9.8970	9.8970	388	388	9.8877	9.8877
32 387 32	32 387 32	32 387 32	33 415	33 415	32 387 32	32 387 32	33 415	33 415
487	487	487	33 415	33 415	487	487	33 415	33 415
477	477	477	33 415	33 415	477	477	33 415	33 415
65	65	65	33 415	33 415	65	65	33 415	33 415
1301	1301	1301	33 415	33 415	1301	1301	33 415	33 415
32 484 33	32 484 33	32 484 33	33 415	33 415	32 484 33	32 484 33	33 415	33 415
-475	-475	-475	33 415	33 415	-475	-475	33 415	33 415
+1 58.18	+1 58.18	+1 58.18	33 415	33 415	+1 58.18	+1 58.18	33 415	33 415
-17.11	-17.11	-17.11	33 415	33 415	-17.11	-17.11	33 415	33 415
+2 21.03	+2 21.03	+2 21.03	33 415	33 415	+2 21.03	+2 21.03	33 415	33 415
33 392 32	33 392 32	33 392 32	33 415	33 415	33 392 32	33 392 32	33 415	33 415
487	487	487	33 415	33 415	487	487	33 415	33 415
477	477	477	33 415	33 415	477	477	33 415	33 415
65	65	65	33 415	33 415	65	65	33 415	33 415
1301	1301	1301	33 415	33 415	1301	1301	33 415	33 415
32 484 33	32 484 33	32 484 33	33 415	33 415	32 484 33	32 484 33	33 415	33 415
-475	-475	-475	33 415	33 415	-475	-475	33 415	33 415
+1 58.18	+1 58.18	+1 58.18	33 415	33 415	+1 58.18	+1 58.18	33 415	33 415
-17.11	-17.11	-17.11	33 415	33 415	-17.11	-17.11	33 415	33 415
+2 21.03	+2 21.03	+2 21.03	33 415	33 415	+2 21.03	+2 21.03	33 415	33 415
33 392 32	33 392 32	33 392 32	33 415	33 415	33 392 32	33 392 32	33 415	33 415
487	487	487	33 415	33 415	487	487	33 415	33 415
477	477	477	33 415	33 415	477	477	33 415	33 415
65	65	65	33 415	33 415	65	65	33 415	33 415
1301	1301	1301	33 415	33 415	1301	1301	33 415	33 415
32 484 33	32 484 33	32 484 33	33 415	33 415	32 484 33	32 484 33	33 415	33 415
-475	-475	-475	33 415	33 415	-475	-475	33 415	33 415
+1 58.18	+1 58.18	+1 58.18	33 415	33 415	+1 58.18	+1 58.18	33 415	33 415
-17.11	-17.11	-17.11	33 415	33 415	-17.11	-17.11	33 415	33 415
+2 21.03	+2 21.03	+2 21.03	33 415	33 415	+2 21.03	+2 21.03	33 415	33 415
33 392 32	33 392 32	33 392 32	33 415	33 415	33 392 32	33 392 32	33 415	33 415
487	487	487	33 415	33 415	487	487	33 415	33 415



801				802				803			
June 14				June 9				June 14			
-11				220 9				220 36			
14 40 14				14 42 2				14 42 2			
+50 24				+2032				+2006			
39 331				-19				-19			
291				8.9055				8.9122			
38 324				9.0190				9.0230			
33.7 35.5				38 54 38 30.0				39 530			
39.0 38.5				11.2 32.5				570 566			
45.1 41.8				17.7 36.5				20 6.1			
45.0				39.9 39.9				2.8			
38 324				9.0190				8.9034			
33.7 35.5				38 54 38 30.0				39 530			
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38 324				9.0190				8.9034			
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39.0 38.5				11.2 32.5				570 566			
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38 324				9.0190				8.9034			
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39.0 38.5				11.2 32.5				570 566			
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38 324				9.0190				8.9034			
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38 324				9.0190				8.9034			
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45.0				39.9 39.9				2.8			
38 324				9.0190				8.90			







801				800				801				800			
June 14				June 9				June 9				June 14			
-11				222 22 28286				222 59 98336				-12			
				14 49 8 +1.832 -1.240				14 51 40 +1.811 -1.261							
				+54 2 -19				+54 10 -20							
				48 31.5 72				51 4.0 14.9							
47 440 47 455				48 33.5 47 53.5				49 36.4 49 53.6				49 22.3 49 50.5			
52.0 48.4				35.5 56.2				31.4 56.2				29.2 54.0			
58.7 51.2				34.5 55.2				37.3 59.7				33.7 57.0			
57.2 9.1 55.4				2.5 0.2629				3.0 0.2579				10 10			
58.4 58.4				6.0 8.8312				6.3 8.8290				4.5 4.5			
47 51.78				48 83.5 29.45				49 9.51 29.78				49 8.52 28.68			
-26.30				27.83 47 55.02				31.70 49 51.86				28.40 49 51.86			
47 51.72 47 25.78				-57.07 +1.115				+2.86 +1.082				+28.96 +1.082			
-26.24 +1.17				+1.17				+1.38 +1.082				+1.38 +1.082			
+1.46				+1.46				+1.34 +1.082				+1.34 +1.082			
+1.03				+1.03				+1.03 +1.082				+1.03 +1.082			
+1.455				+1.455				+1.455 +1.082				+1.455 +1.082			
+2.154				+2.154				+2.154 +1.082				+2.154 +1.082			
-1760				-1649				-1631				-1631			
+2 13.47				+2 13.47				+2 12.12				+2 12.12			
49 23.53				49 26.84				51 55.64				51 55.64			
-2.15				-2.20				-2.22				-2.14			
49 21.88				49 24.67				51 53.42				51 53.42			
+8.50				+9.97				+11.04				+11.75			
979746				976887				976887				976447			
57 398 1.41 89.6				4 12.5 1.75 64.1				57 19.4 1.44 49.8				57 33.9 1.46 18.0			
82.0 1.32 95.4				36.5 1.63 84.0				83.5 1.32 69.7				34.9 1.34 23.9			
91.8				39.0				51.9				88			
45.90				19.50				25.95				29.40			
21.36 51				+4349 54				-21.23 54				-22.00 54			
58 72.6 7 7.55				5 2.99 0 13.75				57 4.72 8 13.09				57 4.09 8 10.62			
51 24 41.4 0.9				17 45.36 -7.39				25 48.63 -7.42				25 40.95 -8.48			
-17 42.08 6 59.56				-17 41.58 0 6.36				-17 41.58 8 5.67				-17 42.08 8 2.14			
-1.18				-1.83				-2.0				-2.2			
50				77				43				45			
+9.08				+11.43				+11.53				+12.28			
+10				+14				+14				+14			
49 3.73				49 8.31				51 37.11				51 36.93			
-17 33.58				-17 31.61				-17 30.54				-17 30.33			
51 6 59.5				54 0 3.78				54 8 2.05				54 7 5.87			
June 9 224 2				June 14				June 9 224 55				June 14			
14 55.52 +1.978				14 55.52 +1.978				14 59 20 +1.837				14 59 20 +1.837			
+54 5.2 -20				+54 5.2 -20				+54 39 -20				+54 39 -20			
55 16.6				55 16.6				58 44.2				58 44.2			
27.1				27.1				43.6				43.6			
54 33.5 54 6.9				53 57.8 54 5.0				57 6.5 57 36.6				57 6.5 57 36.6			
29.0 10.2				2.7 7.4				11.7 40.0				11.7 40.0			
33.8 18.9				7.5 1.3				16.8 43.0				16.8 43.0			
70 17.3				15.4				46.5				46.5			
31.0				19.1				50.0				50.0			
853				1880				348				348			
54 35.43 54 6.9				54 2.7 54 6.12				57 11.60 57 4.32				57 11.60 57 4.32			
-14.57 +11.60				+9.54 +11.79				+31.62 +11.60				+31.62 +11.60			
+1.38				+3.3				+3.3				+3.3			
+1.568				+1.568				+1.568				+1.568			
-1600				-1600				-1654				-1654			
+2 9.87				+2 9.87				+2 7.89				+2 7.89			
56 7.70				56 7.70				59 37.02				59 37.02			
9.90 9.7				9.90 9.7				9.90 9.7				9.90 9.7			
9.85 6.7				9.85 6.7				9.85 6.7				9.85 6.7			
9.75 1.7				9.75 1.7				9.75 1.7				9.75 1.7			
+11.70				+12.43				+9.01				+9.88			
976 53.7				976 53.7				976 29.6				976 2			



84	June 9	225 14	9.8512
	June 2		.2020
15	0 37	-20 1.942	-1.130
	+50 1		
	14 59 58.2		8.8998
	5.9		9.8477
58	270 58	544	9.0156
	32.8	574	
	38.5	08	
		37	0.2882
90	.	72	8.7475
			8.8633
	983.47	5085	8.8668
58	32.8 59	1.70	
	+27.93	+ 116.07	+1.075
		+ .32	- .521
+1	56.05	- .31	+ .248
		- .03	+14.80
-17.48	0	56.75	+2.282
+2 7.17	0	-2.28	
		0 54.57	9.8512
		54.47	9.8842
			9.8477
			9.7354
+ 7.07	980792		+54.37
6	170 1.44607		.2790
	31.4	136711	+8.224
	48.4		1.1499
6	24.20		9.8512
	-23.29	49	9.9152
6	0.91	59 12.83	9.7318
50	16 47.44	-6.86	
-17	41.58	59 6.07	-7.82
	21		+6.62
	25		-2.79
	7.44		+10.85
	09	0 36.99	+6.86
-17	34.51	1 13.2	
49	59 58.6		



[illegible]



802

June 16 222 22 98286 June 17  
2648

June 17

1884	James 16	221.22	9.82.01	James 17	
	43	2648			
	14 45 8	+1.856	-1.216		
	+54 2	-09			-15
	44 311		8.9626		
	68		9.8754		
42	564	43 314	9.0547	42	496 43 218
	10	381			564 246
	54	388			36 382
		520	0.2686		315
88		357	8.8380	89	352
			8.9301		
	1828	1485	8.8748		
43	0.94	43 2870		42	1686 562043 1408
	+2777	+1 5889	+1.065		28316
		+ .21	- .634		+3196 +1 5948
	+1 5893	-10 .15	+ .104	+1 5935	104 1.068
		- .02	+ .1529		+ .15 - .636
	878	45 2763	+2064		+ .25 + .077
	-16.71	-2.06			- .03 + .2531
	+2 1554	45 2857	10.8201	878	45 27.57 +2040
			9.9080		-2.04
			9.8754		
			9.7281		
	+11.23	9.76887	+5347	+11.11	9.76887
6	08	144358	2.550	6	46 1.50461
	97	132557	1.7897		111 1.38660
	105		1.1776		157
6	5.25		9.8201	6	7.85
	-2116	53	9.8975		-2436 53
5	4409	59 3161	9.7834	5	4349 59 3275
17	426	-889		17	486 -9.12
-17	4388	59 2272	-8.63	-17	4322 59 23.63
	.20		+6.09		
	.20		-96		
+	1149		+1239	+	1144
+	.14	45 8.76	+8.89	+	.14
	-17 3265	1 38.3			45 8.78
53 59 2038				-17 3211	1 39.2
				53 59 2164	

June 16	222.22	9.8286	June 17	
		2648		
4 49 8	+1.832	-1.240		
+54 2	-09			-15
48 315		8.9626		
1/2		9.8686		
47 3.4	47 3.10	9.0547	48 25 47 30.8	
3.7	3.45		9.3	3.41
12.6	3.81		14.5	3.77
	3.6	0.2629		3.10
94 353	353	8.8312	98 344	
		8.9233		
	1409	8.8332		
47 8.33 47 28.06	48 8.81 47 13.80			
+19.73 +1 58.99	+1 58.99	48 8.81 47 13.80		
+ 21	+ 21	-41.17 +1 54.48	+1 54.48	+1 54.48
+1 58.93	+1 58.93	+ 25	+ 25	+ 25
-10.49	-10.49	-16.49	-16.49	-16.49
+2 13.47	+2 13.47	+2 13.47	+2 13.47	+2 13.47
49 24.90	49 24.90	49 24.90	49 24.90	49 24.90
		9.8286		
		9.9080		
		9.8686		
		9.7366		
+11.48	+11.48	+5452	+10.33	+10.33
5 11.1 129.513	5 11.1 129.513	2.2550	2.2550	2.2550
194 1.177 12	194 1.177 12	+8002	+8002	+8002
105	105	1.1708	1.1708	1.1708
5 15.25	5 15.25	9.8286	9.8286	9.8286
-15.04 54	-15.04 54	9.9032	9.9032	9.9032
5 0.21 0 15.74	5 0.21 0 15.74	9.7766	9.7766	9.7766
17 48.14	17 48.14	30.10	30.10	30.10
-17 43.88 0 6.81	-17 43.88 0 6.81	+31.37 54	+31.37 54	+31.37 54
.10	.10	1.47 0 13.99	1.47 0 13.99	1.47 0 13.99
.05	.05	46.88	46.88	46.88
+ 11.49	+ 11.49	43.22 0 4.92	43.22 0 4.92	43.22 0 4.92
+ .14 49 8.31	+ .14 49 8.31	-8.50	-8.50	-8.50
-17 32.40 2 20.3	-17 32.40 2 20.3	+6.21	+6.21	+6.21
54 0 4.26	54 0 4.26	-9.8	-9.8	-9.8
		+12.20	+12.20	+12.20
		+8.93	+8.93	+8.93
		+ .14 49 8.43	+ .14 49 8.43	+ .14 49 8.43
		-17 32.89	-17 32.89	-17 32.89
		54 0 3.66	54 0 3.66	54 0 3.66

June 16 2286 9.8718 June 17  
2440

June 16	June 17
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June 19 229 7 9.87862  
2443  
1225

15	12.5	+1.766	-1306				
	+52.44	-10					-16
	11.297		8.9418				
	483		9.8247				
10	80	10	173	9.0413	9	518	10
	13.1		206			55.0	199
	18.5		240			10	335
			275	0.2470			269
88			307	8.7665	92		302
				8.8660			
	394	1199		8.9131		1678	1172
10	13.13	10	540		9	55.8	10
	+10.85	+1	2895	10+10.13		+27.5	+1
			58	-5.38			
			16	+0.090	+1	59.31	102
+1	58.89	-10	02	+1670			26
			12	+2235			03
-1590			12	2287	-1590		12
+2060			12	-224	+2069		12
			12	2083			12
			2063	109.9005			2083
				9.8247			
				9.7723			
+9.53	978	213		+5920	+9.28	978	213
24	140	103	543	2630	24	372	1.43
	233	093	068	+8550		555	1.3
	372			1.1269		627	3474
24	18.60			9.8718	254	31.35	
	-8.52	52		9.9320		-21.61	52
24	10.08	41	392	9.7252	254	9.74	41
58	38.24		-8.96		58	38.61	
-17	43.88		40	5496	-17	43.22	40
	.03			-7.68		.20	
	77			+6.85		81	
	1020			-1.04			
				+10.83			
				+8.96			
	.13	12	4.63			.13	12
-17	3435		42	55.6	-17	3394	
5240	5439				5240	5539	

15 16 9 +52.44 -10 no. dx.	15 34.2 48.8	-16	+1.795 -1.327
14 <del>338</del> 14 (368) 383 357 310 380 345 438	13 44.5 52.2 56.3	14 21.5 25.0 38.3 31.6 35.0	-8.9421 9.8159 9.0414 0.2418 8.7586 8.8573m 8.9200m
87	1530 13 51.00 +3728	14 1414 38.3 59.45 14	+1004 -529
+	+1 59.31	- 26 02	+065 +1699
	-15.71 +1 58.26	16 27.59 -2.24	+2239
		16 25.83	9.8786m 9.9006 9.8159m 9.7792 +6014 2629
23 162 355 417	+ 9.34 23 14.51 25.81 403	9.78213 5.7148 46.673m 403	+7.8643 1.1181m 9.8786 9.9367 9.7165
23 20.85	23 20.15 -25.29 22 50.86	52 42 23.61	
	59 57.49 -17 43.22 - 37 - 59 + 10.17 + .13	-9.28 42 14.33 16 9.67	-7.55 +6.98 - .78 +10.63 +9.28
	-17 33.88 52 42 14.27	41 12.6	



802										803									
June 16					224 2					June 17					224 2				
14 55 47					+1.967					2010					2010				
+49 56					-09					-1.105					-1.105				
55 50					8.8988					8.8988					8.8988				
52 06					9.8567					9.8567					9.8567				
53 31.3					9.0150					9.0150					9.0150				
54 20					0.2938					0.2938					0.2938				
53 53					8.7555					8.7555					8.7555				
82 149					8.8717					8.8717					8.8717				
53 42.5					8.8570					8.8570					8.8570				
53 8.50					+1.128					+1.128					+1.128				
+3720					+1.588					+1.588					+1.588				
+1 58.90					+1.14					+1.14					+1.14				
-17.71					+2.163					+2.163					+2.163				
56 7.40					-17.71					-17.71					-17.71				
56 5.24					+2.987					+2.987					+2.987				
+ 4.01					9.8837					9.8837					9.8837				
488 1.49233					9.8567					9.8567					9.8567				
89					9.7257					9.7257					9.7257				
11 44.45					+53.19					+53.19					+53.19				
-31.07					2.793					2.793					2.793				
11 1338					+8.110					+8.110					+8.110				
12 3497					1.1589					1.1589					1.1589				
-17 4388					9.8420					9.8420					9.8420				
- 31					10 37.00					10 37.00					10 37.00				
+ 7.38					9.9090					9.9090					9.9090				
+ .09					9.7404					9.7404					9.7404				
4954 5109					12 25.56					12 25.56					12 25.56				
June 16					-8.27					-8.27					-8.27				
15 16 15					+6.40					+6.40					+6.40				
+5.2 44					- .99					- .99					- .99				
15 405					+1.122					+1.122					+1.122				
483					+8.36					+8.36					+8.36				
14 238 14					+8.36					+8.36					+8.36				
28.3					-17 43.22					-17 43.22					-17 43.22				
31.0					.08					.08					.08				
87					3					3					3				
14 238 14					+1.122					+1.122					+1.122				
28.3					+8.36					+8.36					+8.36				
31.0					-17 43.22					-17 43.22					-17 43.22				
87					.08					.08					.08				
14 238 14					3					3					3				
28.3					+1.122					+1.122					+1.122				
31.0					+8.36					+8.36					+8.36				
87					-17 43.22					-17 43.22					-17 43.22				
14 238 14					.08					.08					.08				
28.3					3					3					3				
31.0					+1.122					+1.122					+1.122				
87					+8.36					+8.36					+8.36				
14 238 14					-17 43.22					-17 43.22					-17 43.22				
28.3					.08					.08					.08				
31.0					3					3					3				
87					+1.122					+1.122					+1.122				
14 238 14					+8.36					+8.36					+8.36				
28.3					-17 43.22					-17 43.22					-17 43.22				
31.0					.08					.08					.08				







See 3 pp. ahead for  
this clar. June 17

June 16 231 13

88918

2033

15 24 30 +1.827

+50 12 -11

23 48.5 57.2

160 9.6

23 23 23 125

155

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160

89

2.15

-14.15

+1 58.84

-16.45

+1 53.13

24 48.56

9.8918

9.8847

9.7968

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+ 7.42

9.82625

8.0 1.15014

18.5 1.06951

26.5 1.0990

1 1325

+ 11.63

24.88 3 47.4

21 23.47

-17 43.88

- .05

- .22

+ 7.20

+ .09

-17 36.36

50 3 39.59

June 16 232 6

+1.635

-11

8.9584

9.78846

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26 458

499

535

512

0.2135

8.7468

8.8403

8.9490

26 53.30

26 25.40

+1 58.86

+ .21

+1 58.85

- .03

28 24.25

-2.32

28 21.93

9.8971

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802

June 16 231 17

88918

2033

15 24 45 +1.833

+49 55 -11

24 84

597

23 514 23

550

588

348 948

-3 375

2 426

23 -34.43

165.2

-46.26

+1 58.86

+ .18

+ .02

+1 58.85

-16.50

+1 53.13

25 766

-2.32

25 53.4

9.8922

9.8837

9.7962

9.7759

+ 6.06

9.80882

35.1 1.66521

45.9 1.58715

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40.50

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19.15 54 51.38

12 29.20

-17 43.88

- .58

+ 7.18

-1.07

+ 8.80

+ 8.71

+ .09

-17 37.82

49 54.45

June 17

-16

27 39.9

26 513

26 530

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26 4.25026

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+1 58.86

+ .25

+1 58.85

- .03

28 24.25

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803

June 16 231 47

88952

2010

15 36 50 +1.653

+53 32 -11

26 169

362

24 372 35

33

432

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493

89

2.15

-14.15

+1 58.84

-16.45

+1 53.13

24 48.56

9.8922

9.8837

9.7962

9.7759

+ 6.10

9.80882

37.0 1.64078

47.1 1.56292

43

42.15

+36.55 49

18.70 54 53.53

12 29.60

-17 43.22

- .52

+ 7.18

-1.07

+ 8.80

+ 8.67

+ .09

-17 38.12

49 54.43

June 17

-16

27 39.9

26 513

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26 4.25026

-1.18

+1 58.86

+ .25

+1 58.85

- .03

28 24.25

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June 16 231 47

88952

2010

15 36 50 +1.653

+53 32 -11

26 169

362

24 372 35

33

432

59

493

89

2.15

-14.15

+1 58.84

-16.45

+1 53.13

24 48.56

9.8922

9.8837

9.7962

9.7759

+ 10.83

9.80882

35 4.55 1.41647

52.5 1.31364

180

49.00

-20.59 53

25 28.41 29 46.89

47 19.94

-17 45.88

- .18

+ 7.20

-1.07

+ 8.80

+ 8.95

+ .13

-17 33.05

53 29.306

June 16 232 26

+1.678

-11

8.9429

9.7851

9.0519

26 458

499

535

512

0.2248

8.7468

8.8403

8.9410

26 53.30

26 25.40

+1 58.86

+ .20

+1 58.85

- .02

29 43.68

-2.33

29 41.35

9.8991

9.9079

9.7851



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803										802										29																			
June 17 232.57 9902.1										June 16 233.18 9904.0										June 16 233.58 9907.0										June 17									
2814										2688										2482																			
+1546										+1583										+1642																			
-16										-11										-12										-17									
8.9792										8.9666										8.9460																			
9.7800										9.7764										9.7710																			
9.0657										9.0573										9.0439																			
0.1892										0.1995										0.2154																			
8.7592										8.7430										8.7170																			
8.8457										8.8337										8.8149																			
8.9678										8.9613										8.9509																			
+890										+908										+942										+945									
-530										-510										-480										-481									
+264										+1866										+1822										+1824									
+1896										+2347										+2364										+2347									
+2320										+2347										+2364										+2347									
9.9021										9.9040										9.9070										9.9070									
9.9135										9.9093										9.9021										9.9021									
9.7800										9.7764										9.7710										9.7710									
9.8156										9.8133										9.8091										9.8091									
+6540										+6506										+6443										+6443									
2487										2535										2614										2614									
+9027										+9041										+9057										+9057									
1.0822										1.0786										1.0732										1.0732									
9.9021										9.9040										9.9070										9.9070									
9.9555										9.9562										9.9570										9.9570									
9.6935										9.6857										9.6731										9.6731									
-9.68										-9.30										-9.44										-9.44									
2 20.94										15 16.52										56 57.84										56 57.84									
-6.95										-6.87										-6.79										-6.81									
+7.37										+7.38										+7.43										+7.45									
-82										-1.10										-1.11										-82									
+1028										+9.89										+9.61										+9.62									
+968										+9.30										+9.14										+9.14									
-17 32.83										17 4.6										-17 33.60										58 43.0									
54 15 1497																				52 56 56.97										52 56 56.16									
June 16 234.56 9.9130										June 17										June 16 235.57 9.9183										June 17									
2.793																				2.380																			
+1515										-17										+1639										-17									
-12																				-12																			
8.9771																				8.9358																			
9.7593																				9.7481																			
9.0642										37 34.6										9.0375										41 143									
4.05										468										4.63										460									
468										465										4.96										464									
50.1										495										5.50										524									
8.7364										8.6										5.66										560									
8.8235																				8.7856																			
8.9772																				8.9558																			
12.19										2304										678										2486									
40.0337										4.608										22.60										4.972									
+545										+545										+27.12										+5885									
+16										-503										+19										-445									
+0.81										+1 5928										+1 5881										+0.75									
+1936										+1938										+1842										+1842									
+2384										+2367										+2.412										+2.412									
-1364										-1364										-14.75										-14.75									
+1 43.77										+1 43.77										+1 41.16										+1 41.16									
9.9130										9.9130										9.9183										9.9183									
9.9128																				9.8983																			
9.7593																				9.7481																			
9.8258																				9.8171																			
+6696										+1242										+6563										+9.16									
2495										9.75913										2653										9.78625									
9.9191										2.7										1.33266										2.8									
1.0615										1184										1.0503										1164									
9.9130										59.35										9.9183										58.20									
9.9634										4.06										9.9645										23.31									
9.6721										55.29										9.6464										34.89									
54 2240										54 2226										47 3917										47 3940									
-9.40										-9.70										-9.10										-9.40									
-17 43.88										54 12.56										-6.63										-17 43.22									
54 13.00																				-7.56										54 12.56									
																				-83																			
																				+9.60																			
+1248										+9.40										+9.10										+9.10									
9.75913										39 29.40										43 31.27										43 31.37									
9.60206										55 56.8										19 11.2										19 11.2									
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 15 44 27 +1.582 -1.490  
 +53 21 -12  
 43 55.1 8.9518  
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 42 143 42 59.0 9.0476  
 305 435  
 262 46.0  
 49.0 0.1992  
 525 8.6973

June 17

-17  
 42 229 42 384  
 290 418  
 325 453  
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610 3290 8.7931  
 42 303 42 4580 8.9671  
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 +.20 +.076 +1 5927 +.028 +.056  
 +.03 +1.891 +.02 +1.893  
 -14.23 44 44.61 +2.415 -14.73 44 44.55 +2.399  
 +1 40.53 -2.42 -14.73 44 42.15 +0.3

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 +10.51 9.77592 +6.662 +10.61 9.77592  
 46 318 140603 2592 46 255 122426  
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 718 1.0477 575  
 16 35.90 9.9195 46 28.75  
 -19.73 53 9.9663 -13.28 53  
 46 16.17 18 58.81 9.6496 46 15.47 19 0.27  
 36 32.18 -9.22 36 32.88 -9.52  
 -17 43.88 18 49.59 -6.40 -17 43.22 18 50.75 -6.42  
 -17 1.13 -1.08 +7.65 +7.67  
 +.29 -1.13 -.27 -84  
 +10.84 +9.10 +10.82 +9.11  
 +.13 44 27.86 +9.22 +.14 44 27.95 +9.52  
 -17 3337 20 30.1 -17 3261 20 31.3  
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June 17

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June 16 344.70

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 +50 12 -16 -7.248  
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 160 9.7973  
 23 0.0 22 59.5 9.0173  
 4.4 26  
 9.4 5.8  
 8.9 0.2610  
 12.3 8.6999  
 23 5.82 8.8146  
 138 -25.78 8.9088  
 23 460 28 40.04  
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 -24.56 +.13 -463  
 +1 5930 +22 25 +.059  
 -03 +1.655  
 24 39.34 +2.301  
 -1642 24 2.30  
 24 37.04 +0.2

24 20.64



log #	9.7618	June 184	9.7643	June 19.4	9.7710	June 21.4		
B	0.9692	804	0.9692	805	0.9725	806		
O	9.7748		9.4491		9.4819			
2	1.3104	220 31	1.3105		1.3105			
1884	June 18	n = +14	June 18	231 10	June 19	n = +14	June 21	n = +20
14	41 44	+20.07	15 24 20	+1.824	17			
	+50 50	-16	15 24 20	+1.824	17			
	41 41		15 24 20	+1.824	17			
	548		15 24 20	+1.824	17			
39	306	39 590	32 85	32 332	38 28	32 307	33 300	22 320
	350	19	156	364	76	25.5	320	358
	396	5.3	197	396	11.6	391	302	388
		8.4		432		422		418
91	117	117	90	463	455			453
		0.3026		0.2610				
		8.9041m		8.8146m				
		8.8859m		8.9083m				
39	105.5	326.3	438	1977	220	1950	752	1931
	35.3	40 5.326	22 1460	32 39.54	33 7.322	3900	250.7	38.62
	+2999	+1 59.74	+1.160	+24.94	+1 59.70	+10.60	+13.55	+2 0.77
	+1 59.64	+1.7	-576	+1 59.57	-17	-467	+2 0.73	+2.5
		+2.5	+0.48	+1 59.57	+2 0.16	+0.18		-0.20
		+0.2	+1.401			+1.657		+0.3
		+2.03	+2.033			+2.68		+1.657
		42 4.90	-16.42	24 39.11	-16.42	24 39.16	-16.42	24 39.35
		-2.03	+1.5331	24 36.83	+1.5331	24 36.89	+1.5331	24 37.11
		42 2.87	9.8127	9.8893	9.8853			37.11
			9.8807m	9.7773m	9.7768			
			9.7020	9.7768	9.7768			
17	+7.65	9.8043	+7.47	9.80625	+7.54	9.80625	+7.47	9.80625
	30.1	1.47698	5.5	4.55	5.5	2.2	5.5	3.30
	38.3	1.39053	5.46	1.3162m	9.3	1.37162	4.40	1.05131m
	84		1.1831m	1.001	1.0995m	115	770	
17	34.20		9.8127	55 50.05	55 5.75		55 38.50	
	-24.58	50	9.8908	-20.71	50	+23.53	55 -11.23	50
17	962	48 088	9.7402	55 29.34	9 40.98	55 29.28	55 27.25	9 43.31
5	36.73	-8.79	27 19.01	-9.27	27 19.07	-9.54	27 26.10	10.00
-17	45.50	47 52.09	-8.81	-17 45.50	9 31.71	-7.27	-17 45.26	9 33.31
	24		+6.02	-17		+7.22	-17	
	47		+46	-17		+52	-17	
	+8.25		+12.04	+7.69	+9.84	+7.69	+9.84	+7.69
	+11	41 44.81	+8.79	+7.09	+9.24	+7.09	+9.54	+7.10
-17	37.85	50 9.4	-17 38.03	24 20.41	11 25.0	-17 35.43	-17 37.79	11 26.6
50	47 53.23		50 9.3351			50 9 36.10	50 9 35.84	
June 19	236.3	9.9188m	June 21		June 19	236.12	9.9196	June 21
		2.401					2.079	
15	43 53	+1.630	-1.442		15 44 30	+1.731	-1.341	
	+52.28	-18		-16	+50 34	-18		-16
	43 20.7		8.9379		43 556		8.9057	
	314		9.7470		274		9.7453m	
41	372	42 46	9.0388	41 246	42 41	42 412	42 404	42 360
	35.5	79		303	74	437	437	430
	+16	11.1		355	10.6	469	469	463
		14.6	0.2122		14.0	50.2	50.2	49.4
82		180	8.6849	86	17.5	86	80	338
			8.7858m					
			8.9576m					
41	1063	562	9.03	534	1385	2345	1219	2312
	35.3	42 1124	41 30.1042	10.76	42 46.2	42 46.90	42 40.63	42 46.24
	-24.49	+2 0.27	+40.58	+2 0.76	+0.73	+2 0.27	+5.61	+2 0.76
	+35.81	+1.7	-4.51	-2.27	-4.54	-1.7	-4.17	-2.27
	+2 0.15	-29	+0.17	+2 0.74	-2.26	+2 0.14	+2 0.72	-2.26
		+0.2	+1.854		+1.854		+1.775	
		44 11.39	+2.367	-14.67	44 11.42	+2.344	-15.57	44 11.42
		-2.37	9.9188m	+1.40.89	44 9.08	+1.40.53	-15.57	44 11.42
		44 9.02	9.9188m				9.9196m	+1.40.53
			9.8991				9.8866	
			9.7470m				9.7453m	
			9.8179				9.8062	
			+8.66	9.78478	+7.39	9.80443	+6.402	9.80443
89	135	1.55400	39 180	1.60831	43 320	9.86332	43 314	0.74896
	318	1.45190m	+9.220	242 1.50621m	29.8	9.78087m	+9.167	33.1 0.66651m
	353		1.0492m	372	118		1.0475	145
39	17.65		9.9188	39 18.60	43 25.90	9.9196	43 27.25	50
	-28.31	52	9.9647	-32.08	50	9.9622	-4.64	50
38	49.34	26 24.96	9.8461m	38 46.52	26 25.23	43 25.30	21 47.17	21 47.72
43	59.01	-10.01	44 1.83	-10.51	39 23.05	-9.76	39 25.74	-10.26
-17	42.97	26 1.495	-6.51	-17 45.26	26 1.492	-17 42.97	-17 45.26	21 37.46
	34	1.4039	+7.73		44			
	77		+2.6		73			
	+9.90		+9.05	+9.70	+9.05	+9.70	+9.76	+9.76
			+10.01	+13	+10.51	+10	+10	+10.26
-17	34.05	27 54.8	-17 36.60	27 55.6	-17 35.58	23 18.2	-17 38.02	23 18.0
52	26 16.04	5.	52 26 16.57		50 21 40.08		50 21 40.48	



805										806									
June 19	236 57	9.9234	June 21	238 15	9.9296	June 19	238 53	9.9325		June 19	240 6	9.9380	June 21	240 10	9.9383				
15 47 31	+1.606	-1.466	15 53 39	+1.483	-1.589	15 55 9	+1.677	-1.393		16 0 9	+1.490	-1.582	16 0 21	+1.648	-1.424				
+53 37	-18		+54 26	-17		+50 37	-19			+53 48	-19		+50 50	-19					
46 592		8.9405	52 97		8.9693	54 353		8.9093		58 167		8.9589	57 407	57 496		59 154	58 587		
407		9.7367	300		9.7212	405		9.7133		167		9.0523	462	568		207	16		
45 200	45 419	9.0404	45 182	45 416	9.0591	52 584	53 240	9.0213		188		9.0523	512	568		262	52		
248	453		327	447		43	373			58		9.0523	512	568		262	52		
290	486		380	482		88	504			90		9.0523	512	568		262	52		
	520	0.2058		515			337	0.2250				9.0523	512	568		262	52		
	557	8.6772		550			371	8.6226				9.0523	512	568		262	52		
		8.7771						8.7346				9.0523	512	568		262	52		
		8.9638						8.9588				9.0523	512	568		262	52		
45 738	2484		45 689	2410								9.0523	512	568		262	52		
45 2460	48.1		45 327	4820								9.0523	512	568		262	52		
+2408	+2	0.27	+2523	+2	0.76	+9.48		+9.76				9.0523	512	568		262	52		
		0.18			0.26	-4.46						9.0523	512	568		262	52		
+2	0.13		+2	0.71		-0.18		+2	0.73			9.0523	512	568		262	52		
		0.30				-0.03						9.0523	512	568		262	52		
		0.82				+1881						9.0523	512	568		262	52		
		0.27				+2388						9.0523	512	568		262	52		
-1445	47	48.81	-1445	47	48.91	+2365						9.0523	512	568		262	52		
+138.55	47	46.42	+138.55	47	46.53							9.0523	512	568		262	52		
		9.9234										9.0523	512	568		262	52		
		9.9000										9.0523	512	568		262	52		
		9.7367										9.0523	512	568		262	52		
		9.8234										9.0523	512	568		262	52		
+9.32	9.78329	+6.659	+9.13	9.78329	+6.659							9.0523	512	568		262	52		
39 142	1.38166	2.635	29 97	1.40192	2.635							9.0523	512	568		262	52		
221	1.27807	9.294	29 304	1.29833	9.294							9.0523	512	568		262	52		
163		1.0389	304		1.0389							9.0523	512	568		262	52		
29 18.15		9.9234	29 15.20		9.9234							9.0523	512	568		262	52		
-18.97	52	9.9682	-19.58	52	9.9682							9.0523	512	568		262	52		
28 59.18	36	9.6367	28 55.32	36	9.6367							9.0523	512	568		262	52		
53 49.17	-10.65		53 53.03	-10.56								9.0523	512	568		262	52		
-17 42.97	36	5.47	-17 45.26	36	6.34							9.0523	512	568		262	52		
	15			16								9.0523	512	568		262	52		
	1.77			73								9.0523	512	568		262	52		
+10.11			+9.89									9.0523	512	568		262	52		
+13	47 31.97	+10.05	+13	47 32.10	+10.56							9.0523	512	568		262	52		
-17 33.65	37 44.0		-17 36.13	37 44.9								9.0523	512	568		262	52		
52 36 620			52 36 777									9.0523	512	568		262	52		
June 21			June 19			June 21				June 19			June 21						
15 58 28			16 0 9			16 0 21				16 0 21			16 0 21						
+50 37			+53 48			+50 50				+50 50			+50 50						
ch.f			15 59 387			15 59 484				15 59 484			15 59 484						
			513			537				537			537						
			58 167			57 407				59 154			59 154						
			250 215			462				207			207						
			250 250			512				262			262						
			24.7 362			512				262			262						
			24.9 319			512				262			262						
			470			1381				633			633						
			58 188			4603				208			208						
			188			57 407				207			207						
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			24.9 319			512				262			262						
			470			1381				633			633						
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			24.9 319			512				262			262						
			470			1381				633			633						
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			188			57 407				207			207						
			24.7 362			512				262			262						
			24.9 319			512				262			262						
			470			1381				633			633						
			58 188			4603				208			208						
			188			57 407				207			207						
			24.7 362			512				262			262						
			24.9 319			512				262			262						
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			24.9 319			512				262			262						
			470			1381				633			633						
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			24.9 319			512				262			262						
			470			1381				633			633						
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			188			57 407				207			207						
			24.7 362			512				262			262						
			24.9 319			512				262			262						
			470			1381				633			633						
			58 188			4603				208			208						
			188			57 407				207			207						
			24.7 362			512				262			262						
			24.9 319			512				262			262						
			470			1381				633			633						
			58 188			4603				208			208						
			188			57 407				207			207						
			24.7 362			512				262			262						
			24.9 319			512				262			262						
			470			1381				633			633						
			58 188			4603				208			208						
			188			57 407				207			207						
			24.7 362			512				262			262						
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June 21

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267 174  
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36987 3082  
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June 21 240 47

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-948 52  
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-17 4526 24 29.74 -5.78  
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-17 35.88 25 57.9  
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1 315 1 275  
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38371 3412  
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+2 0.70 - .28 - .016 +2 0.70 - .28 - .016  
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June 21 240 54

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+ 12 +8.29  
+ 9.71 +7.88  
+ 13 3 18.37 +10.61  
-17 35.45  
52 24 5213

52 24 5213

July 1

16 0.22  
+53.45  
59 389  
57.3

58 6.9 58 126  
11.8 162  
174 194  
23.0  
26.6

58 1203 58 1956  
+7.53 +2 552  
+ 29  
+2 521 - .29  
- .03

-1341 0.2497  
+130.09 -228  
0 2249

+10.45 9.77181  
19 43.1 0.87679  
1.1 0.76172  
1042

19 52.10  
-5.78  
19 46.32 45 31.08  
54 3 2.03 -13.15  
-17 41.40 45 17.93

-1 78  
+ 11.08  
+ 16 0 9.08  
-17 30.95 46 48.0



dog #	9.7788	June 234	9.7877	June 264	9.7925	June 304	9.7936	July 14	30
1884	0.9728 9.9802 1.3100m	807 220 31	0.9683 0.2767 1.3084m	808 240 9	0.9652 0.4954 1.3044m	809	0.9622 0.5361 1.3031m	810 239 59	
June 30	14 41 44	+2.007	9.8127	June 26 16 0 19	+1.558	9.9282	June 30 16 0 19	+1.561	9.9275
Correction	+50 50	-13	2146	+52 55	-11	2419	-1514	-1511	2419
is applied to	41 41		8.9124	15 59 487		8.9397	59 81	-17	8.9397
1.3100m	548		9.8809	384		9.6970	37.9		9.6970
1.3100m	39 379 39 567		9.0232	59 172 58 541		9.0399	58 51 57 573		9.0399
constants	323 599		216	570		105	08		105
of final	364 30		350	08		169	42		169
1.3100m	64 100		0.3026	36		0.1926	77		0.1926
1.3100m	965 3160		8.7933	72		8.6367	87		8.6367
1.3100m	39 823 140 320		8.9041	-2716		8.7367	+2716		8.7367
1.3100m	+31.03 +2 1.52	+1.206	8.8359	59 218 50 054		8.9781	58 10.83 58 424		8.9781
1.3100m	+2 1.56	-27	-584	-47.89	+2 2.77	+9.56	+20.57	+2 4.99	+9.66
1.3100m	-1806	42 476	-14.02	0 36.20	+2.38	-14.01	0 36.33	+2.31	-14.04
1.3100m	+2 17.34	42 2.52	9.8127	+130.00	0 33.82	9.9382	+130.00	0 34.02	+130.45
1.3100m			9.8893			9.8998			9.8998
1.3100m			9.8809			9.6970			9.6970
1.3100m			9.7020			9.8380			9.8380
1.3100m	+7.78	9.80043	+5035	+9.59	9.78362	+6.886	+9.79	9.78362	+6.886
1.3100m	17 237 1491.78	2742	414 468024m	2638	31 350 1.31323		32 104 1.39164	2638	
1.3100m	40.1 1.40533m	+7.777	499 1.57698	+9.524	503 1.20997m		3211 1.28838m	+9.513	
1.3100m	128	1.1831m	113	0.9992m	503		4815	1.0014	
1.3100m	17 36.40	9.81273x0	45.65	9.938231	42.65		32 45.7520.75	9.9375	
1.3100m	-25.43 50	9.8908	137.76 52.3	9.9788	-1622 52		32 19.43 52	9.9783	
1.3100m	17 10.97 48 028	9.7402	32 23.41 32 49.45	9.9788	31 26.43 33 50.27		32 50.27 33 50.27	9.9788	
1.3100m	51 5 37.38	-9.77	52.581 24.94	9.9788	52.57 21.92		52.50 52.03 47.03 15.25	9.9788	
1.3100m	-17 44.88	47 50.57	-9.16	-17 44.88	-11.78		-17 44.88	-13.02	-6.24
1.3100m	-2.6		+6.10	-60	32 37.87	+8.06	-11	33 37.56	+8.01
1.3100m	-4.4		+7.4	-31		+1.80	-27		+2.98
1.3100m	+8.37		+12.03	+10.36		+8.04	-100.23		+7.97
1.3100m	+11 41 44.76	+9.721	-17 35.99	35 7.9	+11.78	+14	0 20.02	+12.77	+13.02
1.3100m	-17 37.10	50 7.9	52 32 40.06		-17 31.89	35 7.6	-17 31.89	34 32.6	7
1.3100m	53 47 52.50				52 33 40.54		52 33 40.54		
1.3100m	June 30 240 9	9.9382	July 7 see preceding page	239 59	9.9375	July 1	June 30 240 42	9.9406	
1.3100m	16 0 22	+1.491	2606		2593		16 2 29	+1.562	-23.85
1.3100m	+53 45	-06	-1581		-1573		+52 20	-11	-1510
1.3100m	15 59 51.9		8.9584		8.9571		1 580		8.9363
1.3100m	485		9.6970		9.6992		236		9.6876
1.3100									
59 10.3 58 533		9.0519	58 69 58 186	9.0511	58 50.5 58 550		1 04 0 363		9.0378
16.3 569			118 16.3		55.8 566		42 396		
32.5 a-1 04			174 a-1 194		3.3 a-1 599		9.3 438		
8.4		0.1735	330 3.66	0.1758	35 35				0.1937
		8.655488	366 8.6563	78	70		91 50.3		8.6259
		8.7482	58 19.56	8.7503	59 058				8.7274
		8.9901m	58 27.90	8.9886	58 2790		1 138 3153		8.9784
59 1.64 58 3238			58 13.6359 5166		58 562058 3210		1 4.60 0 43.06		
491.37 -27.90			361 -27.90		1686 -2790		-2.154 +2 2.77	+9.58	
16.05 +2 4.99	+0.4	9.25	+7.53 +2 5.52	+9.32	+280 +2 552	+9.27			
439.28.77 +	07	-417	-2037 +	-419	-2410 +	-418			-3.33
+2 4.94	+0.1	-176	+2 5.21	-19.3	+2 5.22	-19.3	+2 282	-18	-1.01
-13.42	0	+1.970	-176	+19.58	-0.2	+1.964		-0.3	+1.986
+1 2.94	0 37.32	+2.302	59 56.87	+2.278	0 37.33	+2.280	-14.06	2 45.88	+2.400
	-2.30		-2.28		-2.28		+1 28.47	-2.40	
	0 33.92	119.9382	59 66.59	9.9375	+1 29.91	0 35.44	2 43.48		9.9406
		9.9065		9.9060					9.8985
		9.6970m		9.6992m					9.6896
		9.8447		9.8435					9.8391
		+6.994	+10.96	+6.974	+10.32		+9.34	9.78609	+6.904
20 4.02	1.46225	2.566	12.50 3.10 1.57679	2.571	3.5 558 1.38202m		44 4.78 1.33325m	2.651	
55.6 +3.4718	+9.560	25 558 11	0.76 172m	+9.546	1.32 1.26595		594 1.23246	+9.555	
158 1152828	0.9992	10 42		1.0014	21 1288		1072	0.9918	
20 4.790	9.9382	126 12.10		9.9375	26 4.79 +40		44 53.60	9.9406	
+33.78 2224 5343 55.9	9.9805	19 52.878	53 45 30.97	9.9798	4 38.5 5343 55.01		+17.08 52	9.9802	
21 2.16 +	1.1144	44 7.78	53 45 30.97	9.6052	26 32.85 45 6.71		45 10.68	20 213	9.5881
1 26.70	54 1 28.21	-2.90	53 45 30.97		54 3780 2650 -13.17		52 37 37.67	-11.78	
	-17 41.38	43 53.88	52 17 41.40	-6.24	54 17 41.90 44 53.84	-6.21	-17 44.88	19 50.35	-6.02
	50.22	43 43.09	-10	+8.01	-15	43 41.54	-12		+8.11
	-13	+2.99	-78.18	+3.28	-18.88	+3.29	-83		+1.81
	+11.14	+8.09	+110.8	+8.10	+110.8	+8.07	+1015		+7.88
	+16	0 21.60	+16	+13.15	+16	0 21.63	+13.17	+14	2 29.42
	-17 30.43	1145 13.0	-17 30.44 31.04		-17 31.04 30.49		-17 35.54	44 18.8	
53 43 58.83			53 39 8.73		53 44 58.90 45 11.8		52 19 52.79	21	



809

June 30

16 2 29  
+52 30 -06  
1 580  
236

59 585 0 77  
36 110  
6.7 a+ 14.1  
17.5  
94 31.0  
0 14.26  
1878 + 27.0  
0 2600 4126  
+1164 +2 499 +969  
+386 + .06 -390

+2 493 +01 .10 -167  
- .02 +1918  
-1406 2 4619 +2330  
+1 2847 -2.33  
2 4386 +01

+9.37 9.78609  
45 338 1.58726  
20.1 6.48647  
819  
45 40.55  
-30.55 52  
45 10.30 20 604  
5237 38.05 -12.76  
-17 4138 19 5328 -6.09  
- .39 +8.05  
- .11 +2.99  
+ 9.73 +781  
+ .14 2 29.81 +12.76  
-17 32.01 21 21.68  
52 19 5667

June 26 241 26 99436

16 5-26 +1.614 .2203  
+51 11 -11 -1458  
4 53.9 8.9181  
146 9.6796

3 542.4 18 9.0266 3 106 3 330  
550. 48 1 166 362  
560 47 21.7 395  
115 43.7  
146 8.5977 90 460

1652 -26.32 8.7062  
3 55.074 404 8.9702  
-13.31 3 41.24 +9.90  
+2 282 - .18 -096  
- .02 +1899  
-1453 5 44.58 +2.425  
+12640 5 41.16 9.9436  
9.8915  
9.6796  
9.8351  
+9.05 9.79715  
55 87 1.12418 +27.20 55 321 1.3651  
894 1.03485 +9561 484 1.27538  
585 4405 0.9818 805  
+1083 51 9.9436 55 40.25  
55 2468 9 4164 9.9805  
51 27 2347 -11.67 9.5711 55 2140 9 5407  
-17 4488 9 3.697 -588 51 27 2695 -12.66  
- .05 +8.16 -17 41.38 9 41.41 -595  
- .03 +1.81 - .14 +8.11  
+ 9.01 +758 - .11 +2.99  
+ .12 5 27.63 +11.67 + 8.63 +751  
-17 3583 11 7.4 -17 3288 11 14.8 +12.66  
51 9 3859 7

810

July 1

-17

0 58 0 73  
12.6 106  
192 a+ 140  
17.4  
88 30.8  
0 14.04  
0 376 + 2703  
0 12530 4104  
+1.31 +2 552 +991  
+28.51 + .01 -391

+2 522 - .28 -183  
- .03 +1912  
-1406 2 4626 +2309  
+1 2847 -2.31  
2 4395

+9.54 9.78609  
45 327 1.45500  
40.0 1.35421  
627  
45 31.35  
-22.61 52  
45 8.74 20 775  
5237 3961 -13.03  
-17 4140 19 5472 -6.16  
- .21 +8.07  
- .08 +3.28  
+ 9.68 +778  
+ .15 2 29.89 +13.03  
-17 31.86 21 23.2  
52 19 5821

June 30

-07

3 106 3 330  
166 362  
21.7 395  
43.7  
460

489 1974  
16303 39548  
+23.18 +2 4.98 +1.001  
+ .06 -366  
+2 490403 .11 -159  
- .03 +1882  
-1453 5 41.38 +2.358  
+12640 5 42.01 +23  
5 42.01 +23

489 9.79715  
16303 1.3651  
484 1.27538  
805  
55 40.25  
-15.85 51  
55 2140 9 5407  
51 27 2695 -12.66  
-17 41.38 9 41.41 -595  
- .14 +8.11  
- .11 +2.99  
+ 8.63 +751  
+ .12 5 27.52 +12.66  
-17 3288 11 14.8  
51 9 4557 7

808

June 26

240 47 99403  
2398  
+1.556 -1.516  
+53 25 -11  
2 210  
285

1 490 1 288  
533 288  
561 316  
352  
888  
-2705  
1584 1599  
53801 3198  
-4787 +2 498 +954  
+ 2.77 -393  
- .26 -101  
- .18 +1940  
3 776 +2400  
-2.40  
3 586 9.9409  
9.8990  
9.6885  
9.8399

+8.94 9.78527  
39 538 1.65006  
42 1.57845 +9563  
1180 0.9907  
39 58.04 9.9409  
+37.84 52 9.9806  
40 36.88 24 3553 9.5875  
52 42 11.47 -11.79  
-17 4488 24 2874 -6.00  
- .61 +8.11  
- .85 +1.81  
+ 1026 +787  
+ .14 2 57.36 +11.79  
-17 3394 25 56.9  
52 24 2659

July 1

-17

3 310 3 327  
247 360  
31.1 843  
424  
458

768  
3 25.60 3 3924  
+13.64 +2 552 +1.003  
+ .01 -366  
+2 524 - .27 -175  
- .02 +1876  
-1453 5 41.48 +2338  
+12640 5 42.14  
5 42.14

8.56 9.79715  
55 242 1.13481  
420 1.04508  
662  
55 33.10  
-11.07 51  
55 22.03 9 5348  
51 27 2632 -12.94  
-17 4440 9 8054 -596  
- .05 +8.12  
- .10 +3.29  
+ 8.59 +749  
+ .12 5 27.61 +12.94  
-17 3284 11 6.9  
51 9 4492

808

June 30

-06

0 539 0 560  
585 598  
53 50  
53  
61  
94

1766 3143  
588 2886  
+399 +2 499 +965  
+ .06 -390  
+2 492 +01 .10 -167  
- .03 +1923  
-1400 3 778 +232631  
+1 2820 -2.33  
3 54301

+9.86 9.78527  
40 295 0.60097  
45.8 0.49936  
753  
40 37.65  
-31.6 52  
40 34.49 24 4234  
52 42 1386 -12.78  
-17 4138 24 2956 -6.07  
- .01 +8.06  
- .10 +2.99  
+ 9.83 +780  
+ .14 2 57.46 +12.78  
-17 31.52 25 57.8  
52 24 3248

June 26 242 45 99489

2079  
+1.637 -1435  
10 12.5 8.9058  
268 9.6608  
8 324 8 521  
372 554  
40.9 587  
18  
50 0.2140  
8.2 8.5665  
8.6800  
8.9681

1105 3930  
8 3683 5560  
+21.77 +2 2.76 +1.024  
+ .24 -343  
+2 280 - .17 -091  
- .03 +1890  
-1473 11 1.40 +2460  
+12271 10 5394 9.9489  
9.8866  
9.6608  
9.8355  
+6.847  
2767  
154 1.25541 +9614  
262 0.9630  
43 13.10 9.9489  
-18.01 50 9.9829  
42 53.09 22 1600 9.5474  
5037 5326 -11.66  
-17 4488 22 434 -563  
- .13 +8.26  
- .54 +1.86  
+ 8.18 +717  
+ .11 10 44.21 +11.66  
-17 3726 23 27.0  
50 22 8.38



810  
July 1

-17

0 4750 567  
56.1 590  
27 .23  
55  
89 90

1663 8114  
55431 2828  
+6.85+2 552 +967  
+ 101 -391  
+2 523 - .28 -183  
- .02 +1917  
-1400 3 751 +2310  
+12820 3 580

+9.82 978527  
40 300 483569  
475 073408m  
40 3675  
-542 52  
40 3333 24 4344  
52 42 1502 -1304  
-17 4140 24 3040  
- .01  
- .10  
+ 978  
+ .15 2 51.20  
-17 3158 25 58.6  
52 24 3362

June 30

-08

8 356 8 521  
375 533  
311 566  
597  
85 57

83137 3824  
8 3748 56548  
+2911+2 4.98+4 1015  
+ .06 -340  
+2 489+24 .13 -150  
- .02 +1873  
-1473 11 137 +2398  
+12271 -240  
10 5897+24

+7.20 9804413  
43 114 146404  
287 1.38159m  
401  
43 20.05  
-24.08 50  
42 5597 22 1820  
50 39 5238 -12.63  
-17 4138 22 557 -5.70  
- .23 +8.21  
- .53 +3.01  
+ 785 +7.11  
+ .11 10 44.28 +1263  
-17 34.18 23 28.3  
50 22 1102

July 1

16 316 +1.554  
52 26 -17  
2 453  
291

1 133 1 220  
180 258  
226 392  
323  
92 360

539 1453  
1 180 1 29.06  
1727 +2 5.52 +966  
+1109 + .01 -390  
+2 522 - .28 -183  
- .03 +1919  
-13.99 3 3428  
+12793 -231  
3 3197

+9.80 978527  
40 300 1.04493  
475 0.94832m  
40 3675  
-5.88 52  
40 2987 24 4688  
52 42 18.48 -13.05  
-17 4140 24 3383  
- .03  
- .10  
+ 978  
+ .15 3 17.98  
-17 3160 26 1.8  
52 24 3708

July 1

-17

8 324 8 498  
271 530  
330 562  
593  
83 26

825 3500  
8 3750 8 563  
+2868 +2 5.51 +1018  
+ .01 -341  
+2 522 - .27 -164  
- .03 +1867  
-1473 11 140 +2380  
+12271 -238  
10 5922

+7.16 9804413  
43 82 1.45758  
272 1.37513m  
354  
43 1770  
-23.72 50  
42 5398 22 2013  
50 39 5437 -12.90  
-17 4140 22 723 -5.71  
- .22 +8.22  
- .53 +330  
+ 784 +7.09  
+ .11 10 44.29 +1290  
-17 34.24 23 29.9  
50 22 1297

809

June 30

16 4 37 +1.419  
+5442 -07  
4 8.3  
458

2 312 2 386  
397 423  
363 455  
492  
91 537

872 3283  
3 29072 45.86  
+1609 +2 4.98 +880  
+ .07 -418  
+ .12 -174 +2 521  
- .02 +2036  
-2.32 4 5057 +235624  
4 12.77 +127.03

+6725 +1220 976182  
25 83 1.21985  
234 1.09479m  
314  
25 1585  
-1244 54  
25 3.41 40 15.76  
54 57 4494 -13.06  
-17 4138 40 2.72  
- .07  
- .05  
+ 1215  
+ .17 4 35.61  
-17 2918 41 29.8  
54 40 356

June 30

16 16 29  
+5152  
15 579  
547

chf

16 16 29  
+5152  
15 579  
547  
14 360  
432  
682  
14 34.10

+8.40 979063  
14 304 1.43727  
391 1.34102  
595  
14 2975  
-21.93 51  
14 782 51 753  
52 8 4053 -13.13  
-17 4140 50 5440  
- .20  
- .72  
+ 918  
+ .14 16 29.29  
-17 3300 52 13.1  
51 50 5913

July 1

241 13 99427  
2755  
-1653  
8.9733  
96826  
9.06172  
42 3 380  
95 416  
152 450  
485  
534

2 386  
423  
455  
492  
537

872 3283  
3 29072 45.86  
+1609 +2 4.98 +880  
+ .07 -418  
+ .12 -174 +2 521  
- .02 +2036  
-2.32 4 5057 +235624  
4 12.77 +127.03

+1150 +1186 976182  
25 319 1.54986  
388 1.42480m  
607  
25 30.35  
-2659 54  
25 3.76 40 15.05  
54 57 4459 -13.32  
-17 4140 40 1.73  
- .32  
- .08  
+ 1209  
+ .17 4 35.24  
-17 2954 41 28.8  
54 40 3.19

July 1

244 12 99544  
2309  
-1532  
8.9282  
96382  
9.0331

14 81 14 337  
131 370  
177 404  
437  
469

14 389 3017  
1287 14 4034  
+2737 +2 5.51 +957  
+ .01 -342  
+2 522 - .28 -161  
- .02 +1953  
-1386 16 4556 +2407  
+1866 -2.41  
16 43.15 99544

+8.40 979063  
14 304 1.43727  
391 1.34102  
595  
14 2975  
-21.93 51  
14 782 51 753  
52 8 4053 -13.13  
-17 4140 50 5440  
- .20  
- .72  
+ 918  
+ .14 16 29.29  
-17 3300 52 13.1  
51 50 5913



809										810																								
June 30 244 23					9.9551					July 1					June 30 244 57					June 30 244 58					9.9572									
16 17 14					+15.11					-15.63					16 19 81					+1.416					+1.419					-16.53				
+52.20					-09					-17					+53.48					-10					-10					-10				
16 445					237					8.9360					19 31					8.9597					no 29m					8.9589				
15 11.0					15 19.8					9.6358					8.614					9.6268					9.6268					9.6265				
15.0					236					9.0377					17 40					9.0528					18 24.6					18 0.5				
16.5					260					14.3					14.6					4.13					37.5					17.1				
76					390					0.1793					4.60					0.1511					9.1					20.5				
					8.5718					8.5718					8.5865					8.6776					8.6776					8.5854				
15 4.07					1298					8.6735					15 293					2069					9.45					27.94				
15 18.8					515					8.9928					15 9.8					17 4.1					18 31.50					16.64				
+12.29					+2					+1.937					+1.583					+2					+5.51					+9.39				
+2 4.86					105					-3.44					+2					+2					+2					+2				
-1360					17 30.82					-12.75					19 46.22					-12.77					19 53.74					+2.436				
+1 18.21					17 28.39					+1 18.21					+1 18.21					+1 18.21					+1 18.21					+1 18.21				
					9.8984					9.8984					9.9069					9.9069					9.9069					9.9067				
					9.6358					9.6358					9.6268					9.6268					9.6268					9.6265				
					9.8535					9.8535					9.8640					9.8640					9.8640					9.8639				
+9.64					9.78609					+9.64					+9.64					+9.64					+9.64					+9.64				
46 10.8					1.08307					46 13.1					1.09869					15.1281					+9.874					0.9287				
25.9					0.98228					39.1					1.09869					15.38					9.9572					9.9945				
36.4					0.9380					41.2					0.9290					15.38					9.9572					9.9945				
46 18.35					+30					46 20.60					9.9551					18 52.90					9.9572					9.9945				
-46 8.76					19 7.56					-46 8.05					9.9907					19 29.47					9.9945					9.9945				
50 36					8.76					50 36					8.76					50 36					8.76					8.76				
-17 41.38					18 54.66					-17 41.38					18 54.66					-17 41.38					18 54.66					-17 41.38				
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-17 41.38																																		



810  
July 1

no down -17

17	32.8	17	416
	380		450
	324		486
			520
93			556

17	832	2438
	27.8	48.6
	+20.83	+2.55
		+882
		+356
		+29
		+164
		+2054
		+2416

+2	520	-	29
			+164
			+2054
			+2416
-12.77	19	5376	
		-2.42	
+16.50	19	5134	

+10.46	9.77130
19	371 1.31869
	55.0 1.20311
	921

19	46.05
	-15.96 53
19	3009 45 4732
54	3 18.26 -13.38

-17	4140	45 3397	-528
			+838
			+339
			+686
			+13.35

+11.18	88	

+16	19	40.57	+13.35

-17	30.94	46 50.5

53	45	3686
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July 1

19 3.1 -17

18	217	18	18
	371		54
	321		90
			124
			162
85			8.96

18	819	-	27.94
	3730	17	41.02
	-15.34	+2	5.51
	46.28		+880
			-357
			+29
			+164
			+2056
			+2415

+2	521	-	29
			+164
			+2056
			+2415
-12.75	19	46.23	
		-2.42	
+16.59	19	4381	

+10.65	9.77130
15	874 1.66539
	53.8 1.1549.81
	912

15	45.60
	+85.47 53
16	21.07 48 5653
54	6 27.28 -13.36

-17	4140	48 43.17	-528
			+838
			+339
			+687
			+13.36

+11.18		

+16	19	31.06	+13.36

-17	30.75	49 59.8

53	48	4588
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809

June 30 245 24 9.9587 July 1

16	21.20	+1.486	2416
	+52.84	-10	-1586
	20.580		8.9394
	374		9.6194

19	46	19	244
	92		378
	14.3		51.3
			344
			380

19	46	19	244
	92		378
	14.3		51.3
			344
			380

19	46	19	244
	92		378
	14.3		51.3
			344
			380

19	281	1558
	92.14	31.3
	+21.79	+2
		+8.921
		+334
		+163
		+2009
		+2453

+2	484	+05	.16
			-143
			+2.521
			-28
			-157
			+2003
			+2435

-1337	21	3600	
		-2.45	
+11524	21	3353	
		9.9587	
		9.8994	
		9.6194	
		9.8584	

+9.45	9.78379
32	569 1.33826
	114 1.23417
	83

33	4.15
	-17.15 52
32	47.00 32 2942
52	50 1.35 -12.98

-17	4138	32 1647	-518
			+839
			+308
			+666
			+12.95

+9.94		

+14	21	20.23	+12.95

-17	31.93	34 31.7

52	32	19.94
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52	33	20.26
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[illegible]



811				812			
July 3 247 24 9.9653				July 3 247 50 9.9666			
2372				2678			
16 29 21 +1498 -1.594				16 31 2 +1357 -1715			
+52 16 -17				+54 10 -18			
28 51 18.9				30 348 12.9			
28 13.1 27 54.1 9.0370				28 58.2 29 66 100 13.3 167 0.1326			
184 54.1				34 100 13.3 167 0.1326			
232 9.1 54.4				8.0 100 13.3 167 0.1326			
9.2 40 8.5197				8.5423 8.2 8.6333 9.0232			
-26.96 8.6217				152.1 38.75 38.75			
28 507 5879 9.0023				28 50.7 30 10.54 19.87 +2 8.46 +888			
+1272 28 30.62 +927				+19.87 +2 8.46 +888			
-4728 +2 58.7 -1330				+2 58.4 -12.21 -12.21			
+1 9.48 29 36.49 +2.457				+2 58.4 -12.21 -12.21			
29 3403 9.9653				31 19.04 -2.34 31 16.70			
9.8980				9.9666 +1.822			
9.5847				9.9090			
9.8633				9.5767			
+8.71 9.76674				9.8756			
49 22 1.67468				+7.509 +10.94 9.76747			
194 1.57454				54 38.1 1.27820			
216				53.0 1.17879			
49 10.60				9.11			
+37.55 52				54 45.55			
49 48.35 15 25.14				54 30.44 10 47.03			
52 33 0.00 -12.87				54 28 17.89 -15.67			
-17 43.57 15 11.27				-17 41.80 10 31.34			
-59				-4.74 -8.63			
-67				+4.07 -7.77			
+9.82				+6.11 +11.63			
+1.15 29 20.73 +13.87				+14.07 +1.18 31 4.49 +15.67			
-17 34.86 16 20.8				-17 30.86 11 39.6			
52 15 16.43				54 10 36.09			
July 10				July 3 252 51 9.9753			
-08				2485			
40 570 42 168				16 43 10 +1.398			
17 20.3				+52 58 -18			
6.5 9.86				42 42.2 53 0.7			
9.0 27.2				41 40.3 41 40.3			
20.6				43.6 46.7			
18.52 118.5				50.7 52.8			
48 17.348 23.70				-27.40 8.5600			
+21.97 +2 8.45 +9.10				9.0194			
+2 8.45 -13 -224				45 1813			
-12.52 43 32.15 +2.025				45 0.43 45 29.60			
+59.22 43 29.71				+29.17 +2 6.07 +8.99			
+10.45 9.77913				+2 5.83 -31 -145			
0 370 1.34163				-12.82 47 35.43 +2.549			
40.0 1.23408				+56.25 47 32.88			
670				9.9753			
0 33.50				9.9022			
-17.14 53 0.64				9.5159			
0 16.36 5 0.64				9.8775			
53 22 31.99 -16.72				+7.542			
-17 41.50 4 44.92				26.13 44 12 1.46 494			
-13				17.4 1.36382 +10.132			
-10				186 0.8170			
+10.52				9.7754 44 6.95			
+76 43 17.19 +15.72				0.0057 9.4134			
-17 31.35 5 14.1				43 45.01 21 30.67			
53 4 50.19				52 39 3.34 -15.65			
				-17 41.80 21 15.02			
				-4.11 -8.81			
				+4.10 +5.17			
				+9.83			
				+13.97			
				47 20.06 22 10.1			
				-17 34.38 52 21 18.59			



812															
July 10 253 18 9.9813				July 10 253 26 9.9816				July 10 253 27 9.9816							
2224				2226				2226							
16 53 54 +1.474				16 53 38 +1.453				+1.453							
+51 18 -09				+51 39 -09				-09							
52 244				52 593				8.9254				8.9254			
205				411				9.4550				9.4546			
5X0 293 5X0 360				5X1 293 5X1 275				5X2 43 5X1 329				9.0310			
344 599				537 810				90 36.1							
388 28				584 847				16.3 39.3							
65 0.1685				880 0.1623				42.4 0.1623							
100 8.3786				413 8.3804				45.8 8.3800							
8.4863				8.4862				8.4856							
9.0092				9.0126				9.0126							
103 5 3158				1618 1725				286 1965							
5X0 342 5X1 3316				5X1 533 5X1 3450				5X2 9.53 5X1 3930							
+28.99 +2 8.45				+2 8.45				+2 8.45							
+2 8.43				+2 8.42				+2 8.43							
-13.27				-13.08				-13.06							
+52.02				+51.57				+51.51							
53 9.06 9.9813				53 40.39 9.9816				53 45.20 9.9816							
9.8923				9.8943				9.8943							
9.4584				9.4550				9.4546							
9.8736				9.8759				9.8759							
+8.20 9.79605				+8.76 9.79272				+8.62 9.79272							
47 434 146225				36 542 128847				36 542 148044							
50.9 1.37142				10.0 1.19431				10.0 1.28628							
33 9.9813				42 9.9816				42 9.9816							
47 51.65				27 2.10				27 2.10							
-23.52 51 0.0080				+15.64 51 0.0089				+24.34 51 0.0089							
47 28.13 17 46.62				27 17.74 37 57.57				27 26.44 37 48.73							
51 35 20.22 -13.65				51 55 30.61 -13.69				51 55 31.91 -13.68							
-17 41.80 17 34.97				-17 41.80 37 41.85				-17 41.80 37 33.05							
-22				+8.83				+8.83							
+46				+6.26				+6.28							
+8.73				+4.33				+4.32							
+15 32 55.79				+15.65				+15.69							
-17 33.60 18 23.0				-17 33.04 38 33.4				-17 33.18 38 24.6							
51 17 38.42				51 37 48.81				51 37 40.11							



9.8201 0.9610 0.8643 1.2747 July 14 22=+15 h. 45 16 2 52 +52 25 -09 2-240 285 59 5330 584 1.9 91 59 1726 57530 +1739 +2 +2 944 -1404 +1 2874 2 2232 + 9.65 41 525 94 19 42 0.95 -1376 41 47.19 52 41 1.16 -17 41.58 -08 -30 + 986 -17 31.93 52 23 19.58 July 14 16 3 16 +52 26	9.8214 0.9619 0.8809 1.02716 July 14 22=+15 h. 45 16 2 52 +52 25 -09 2-240 285 59 5330 584 1.9 91 59 1726 57530 +1739 +2 +2 944 -1404 +1 2874 2 2232 + 9.65 41 525 94 19 42 0.95 -1376 41 47.19 52 41 1.16 -17 41.58 -08 -30 + 986 -17 31.93 52 23 19.58 July 14 16 3 16 +52 26	9.8232 0.9633 0.8969 1.2283 July 15 22=+11 h. 45 16 3 16 +52 26 -09 2-240 285 59 5330 584 1.9 91 59 1726 57530 +1739 +2 +2 944 -1404 +1 2874 2 2232 + 9.65 41 525 94 19 42 0.95 -1376 41 47.19 52 41 1.16 -17 41.58 -08 -30 + 986 -17 31.93 52 23 19.58 July 14 16 3 16 +52 26	9.8244 0.9644 0.8969 1.2283 July 15 22=+11 h. 45 16 3 16 +52 26 -09 2-240 285 59 5330 584 1.9 91 59 1726 57530 +1739 +2 +2 944 -1404 +1 2874 2 2232 + 9.65 41 525 94 19 42 0.95 -1376 41 47.19 52 41 1.16 -17 41.58 -08 -30 + 986 -17 31.93 52 23 19.58 July 14 16 3 16 +52 26	9.8256 0.9656 0.8986 1.2303 July 15 22=+11 h. 45 16 3 16 +52 26 -09 2-240 285 59 5330 584 1.9 91 59 1726 57530 +1739 +2 +2 944 -1404 +1 2874 2 2232 + 9.65 41 525 94 19 42 0.95 -1376 41 47.19 52 41 1.16 -17 41.58 -08 -30 + 986 -17 31.93 52 23 19.58 July 14 16 3 16 +52 26	9.8268 0.9668 0.8996 1.2323 July 15 22=+11 h. 45 16 3 16 +52 26 -09 2-240 285 59 5330 584 1.9 91 59 1726 57530 +1739 +2 +2 944 -1404 +1 2874 2 2232 + 9.65 41 525 94 19 42 0.95 -1376 41 47.19 52 41 1.16 -17 41.58 -08 -30 + 986 -17 31.93 52 23 19.58 July 14 16 3 16 +52 26	9.8280 0.9680 0.9006 1.2343 July 15 22=+11 h. 45 16 3 16 +52 26 -09 2-240 285 59 5330 584 1.9 91 59 1726 57530 +1739 +2 +2 944 -1404 +1 2874 2 2232 + 9.65 41 525 94 19 42 0.95 -1376 41 47.19 52 41 1.16 -17 41.58 -08 -30 + 986 -17 31.93 52 23 19.58 July 14 16 3 16 +52 26	9.8292 0.9692 0.9016 1.2363 July 15 22=+11 h. 45 16 3 16 +52 26 -09 2-240 285 59 5330 584 1.9 91 59 1726 57530 +1739 +2 +2 944 -1404 +1 2874 2 2232 + 9.65 41 525 94 19 42 0.95 -1376 41 47.19 52 41 1.16 -17 41.58 -08 -30 + 986 -17 31.93 52 23 19.58 July 14 16 3 16 +52 26	9.8304 0.9704 0.9036 1.2383 July 15 22=+11 h. 45 16 3 16 +52 26 -09 2-240 285 59 5330 584 1.9 91 59 1726 57530 +1739 +2 +2 944 -1404 +1 2874 2 2232 + 9.65 41 525 94 19 42 0.95 -1376 41 47.19 52 41 1.16 -17 41.58 -08 -30 + 986 -17 31.93 52 23 19.58 July 14 16 3 16 +52 26	9.8316 0.9716 0.9046 1.2403 July 15 22=+11 h. 45 16 3 16 +52 26 -09 2-240 285 59 5330 584 1.9 91 59 1726 57530 +1739 +2 +2 944 -1404 +1 2874 2 2232 + 9.65 41 525 94 19 42 0.95 -1376 41 47.19 52 41 1.16 -17 41.58 -08 -30 + 986 -17 31.93 52 23 19.58 July 14 16 3 16 +52 26	9.8328 0.9728 0.9056 1.2423 July 15 22=+11 h. 45 16 3 16 +52 26 -09 2-240 285 59 5330 584 1.9 91 59 1726 57530 +1739 +2 +2 944 -1404 +1 2874 2 2232 + 9.65 41 525 94 19 42 0.95 -1376 41 47.19 52 41 1.16 -17 41.58 -08 -30 + 986 -17 31.93 52 23 19.58 July 14 16 3 16 +52 26	9.8340 0.9738 0.9066 1.2443 July 15 22=+11 h. 45 16 3 16 +52 26 -09 2-240 285 59 5330 584 1.9 91 59 1726 57530 +1739 +2 +2 944 -1404 +1 2874 2 2232 + 9.65 41 525 94 19 42 0.95 -1376 41 47.19 52 41 1.16 -17 41.58 -08 -30 + 986 -17 31.93 52 23 19.58 July 14 16 3 16 +52 26	9.8352 0.9748 0.9076 1.2463 July 15 22=+11 h. 45 16 3 16 +52 26 -09 2-240 285 59 5330 584 1.9 91 59 1726 57530 +1739 +2 +2 944 -1404 +1 2874 2 2232 + 9.65 41 525 94 19 42 0.95 -1376 41 47.19 52 41 1.16 -17 41.58 -08 -30 + 986 -17 31.93 52 23 19.58 July 14 16 3 16 +52 26	9.8364 0.9758 0.9086 1.2483 July 15 22=+11 h. 45 1
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815

1884phae.pro5

884	July 15	247 24	9.9653	July 16	July 15	247 59	9.9671	July 16	
16 39 27	+1.476	-1.596	8.9355	28 14 29	16 31 40	+1.354	-1.718	29 63 29	400
28 57 51.1	214	8.9355	9.5842	29 14 29	31 130	-10	8.9658	29 63 29	400
27 54 27	473	9.0373	28 14 29	29 14 29	157	8.9658	9.5739	29 63 29	400
41	504	+	29 14 29	29 14 29	197	422	9.0568	29 63 29	400
12.5	538	0.1691	58.5-335	29 14 29	253	457	0.1316	29 63 29	400
9.3	86	8.520 2	17.670	29 14 29	498	498	8.5397	29 63 29	400
2699	8.6220	27 55 08	28 23 46	29 14 29	538	8.6307	8.6307	29 63 29	400
1956	2693	90026	28 23 46	29 14 29	594	2288	9.0239	29 63 29	400
28 830 50.4	558 86	28 23 46	28 23 46	29 14 29	1980	458	9.0239	29 63 29	400
-41.43-38.33	27 26 57	9.7604	9.78	29 14 29	+25.96	+2	9.7604	29 63 29	400
+2 9.72-04	16	-3.18	+2 8.32	29 14 29	+2 9.72-04	17	-3.25	29 63 29	400
-1330	29 36.59	+2.237	1332	29 14 29	31 55.48	+2.230	12.19	29 63 29	400
+1 9.46	29 24.33	9.9653	+1 9.46	29 14 29	31 53.25	9.9671	+1 7.77	29 63 29	400
	9.8982	9.5847	9.8635	29 14 29	9.9091	9.5739	9.8762	29 63 29	400
+ 9.23	9.78625	+7.303	+ 8.62	29 14 29	+ 11.17	9.76695	+ 11.08	29 63 29	400
49 41 47	62	1.55234	2.654	29 14 29	53 388	1.41430	2.538	29 63 29	400
232	251	1.48291	1.9959	29 14 29	515	1.29437	1.0058	29 63 29	400
273	313	1.51717	0.8869	29 14 29	553	0.8761	0.8761	29 63 29	400
49 1365 47	1565	9.78625	48 9 07	29 14 29	53 42.65	54	9.9671	29 63 29	400
+3290	+3040	525 28.83	9.9981	29 14 29	-19.69	54	0.0025	29 63 29	400
49 4655 47	4645	17 24.33	9.4829	29 14 29	53 22.96	11 54.36	9.4830	29 63 29	400
33 1.80	5235	230	-16.58	29 14 29	54 29 25.39	-16.88	54 29 25.39	29 63 29	400
-17 42.20	39	15 12.25	-5.11	29 14 29	-17 42.20	11 87.53	-4.98	29 63 29	400
-39	15	12.25	+8.46	29 14 29	-17 42.20	11 87.53	+8.49	29 63 29	400
-33	9.78	+7.57	+5.68	29 14 29	-17 42.20	11 87.53	+7.64	29 63 29	400
+ 9.78	29 21.01	+16.58	+ 9.81	29 14 29	+ 11.71	31 41.02	+16.83	29 63 29	400
-17 32.97	16 20.7	-17 36.06	16 20.7	29 14 29	+ 19	31 41.02	+16.83	29 63 29	400
52 17 20.10	52 16 16.62	52 16 16.62	52 16 16.62	29 14 29	-17 31.03	12 45.3	-17 33.60	29 63 29	400
July 14	250 51	9.9753	July 15	July 14	252 8	9.9785	July 15		
16 43 10	+1.398	-1.674	2485	16 42 52	+1.5048	-1.569	2172		
53 58	-11	8.9463	9.5759	16 42 52	+1.5048	-1.569	2172		
42 42.2	53 87	9.0441	40 575 41	47 45.3	49	8.9150	9.4869		
40 47.7	41	90	40 575 41	49	49	9.0247	45 42.7		
538	186	160	40 575 41	49	49	9.0247	45 42.7		
577	193	193	40 575 41	49	49	9.0247	45 42.7		
83	229	8.4622	86	49	49	9.0247	45 42.7		
158.2	798	9.0194	1864	49	49	9.0247	45 42.7		
40 53 41	1566	24 41	23.13 41	46 36.13	456	5378220	45 42.7		
+2323	+2	9.40	+13.67	46 36.13	456	5378220	45 42.7		
+2 9.40	-	.18	-2.66	46 36.13	456	5378220	45 42.7		
-1258	43 23.97	9.9753	-1258	46 36.13	456	5378220	45 42.7		
+59.31	43 23.97	9.9753	+59.31	46 36.13	456	5378220	45 42.7		
	23.00	9.9753		46 36.13	456	5378220	45 42.7		
+10.09	977950	+7.542	+10.22	46 36.13	456	5378220	45 42.7		
7 431	1.36605	2.613	7 331	46 36.13	456	5378220	45 42.7		
14 1.25897	1.0155	8.73	14 1.25897	46 36.13	456	5378220	45 42.7		
1045	0.8181	9.9753	1045	46 36.13	456	5378220	45 42.7		
52.25	0.0067	9.4186	52.25	46 36.13	456	5378220	45 42.7		
7 34.10	57 4276	9.4186	7 34.10	46 36.13	456	5378220	45 42.7		
53 15 1425	-16.63	-4.35	53 15 1425	46 36.13	456	5378220	45 42.7		
-17 4158	57 26.11	+8.64	-17 4158	46 36.13	456	5378220	45 42.7		
-	43	+7.43	-	46 36.13	456	5378220	45 42.7		
+ 10.49	43	+4.93	+ 10.50	46 36.13	456	5378220	45 42.7		
+ 10.49	43	+4.93	+ 10.50	46 36.13	456	5378220	45 42.7		
+ 10.49	43	+4.93	+ 10.50	46 36.13	456	5378220	45 42.7		
+ 10.49	43	+4.93	+ 10.50	46 36.13	456	5378220	45 42.7		
+ 10.49	43	+4.93	+ 10.50	46 36.13	456	5378220	45 42.7		
+ 10.49	43	+4.93	+ 10.50	46 36.13	456	5378220	45 42.7		
+ 10.49	43	+4.93	+ 10.50	46 36.13	456	5378220	45 42.7		
+ 10.49	43	+4.93	+ 10.50	46 36.13	456	5378220	45 42.7		
+ 10.49	43	+4.93	+ 10.50	46 36.13	456	5378220	45 42.7		
+ 10.49	43	+4.93	+ 10.50	46 36.13	456	5378220	45 42.7		
+ 10.49	43	+4.93	+ 10.50	46 36.13	456	5378220	45 42.7		
+ 10.49	43	+4.93	+ 10.50	46 36.13	456	5378220	45 42.7		
+ 10.49	43	+4.93	+ 10.50	46 36.13	456	5378220	45 42.7		
+ 10.49	43	+4.93	+ 10.50	46 36.13	456	5378220	45 42.7		
+ 10.49	43	+4.93	+ 10.50	46 36.13	456	5378220	45 42.7		
+ 10.49	43	+4.93	+ 10.50	46 36.13	456	5378220	45 42.7		
+ 10.49	43	+4.93	+ 10.50	46 36.13	456	5378220	45 42.7		
+ 10.49	43	+4.93	+ 10.50	46 36.13	456	5378220	45 42.7		
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+ 10.49	43	+4.93	+ 10.50	46 36.13	456	5378220	45 42.7		
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+ 10.49	43	+4.93	+ 10.50	46 36.13	456	5378220	45 42.7		
+ 10.49	43	+4.93	+ 10.50	46 36.13	456	5378220	45 42.7		
+ 10.49	43	+4.93	+ 10.50	46 36.13	456	5378220	45 42.7		
+ 10.49									



814										815										40																			
July 15 250 1 9.9730										July 16										July 15 250 2 9.9731										July 15 250 1 9.9730									
16 39.48 +1.585 -1.487										-98										16 39.47 +1.355 -1.717										+1.355 -1.717									
+49.48 ÷ 11																				39 204 -11										39 204 -11									
39 168										8.8970										8.9595										8.9595									
524										2.5337										9.5334										9.5337									
37 150 37 236										9.0140										37 537 570										37 144 38 153									
240 267																				40 04										193 187									
81.5 30.0																				40 40										222									
										0.2080										0.1319										2.55 0.1319									
										8.4307										8.4929										2.95 8.4932									
										-2.556										8.5862										38 2220 8.5863									
37 29.98										8.5477										38 3014 9.0257										38 1710 27.95 9.0256									
405 + 25.86										8.9840										38 0828										38 3740 27.95 9.0256									
37 2380 37 5554																				+2 9.7503 0.050										-42.85 +2 9.7503 0.050									
+64.8 + 32.04										+13 -2.47										+2 9.7503 0.050										+2 9.7503 0.050									
+2 969.03										-17 -2.68										+2 969.03										+2 969.03									
										.02 +1.814										+2 969.03										+2 969.03									
-14.26										40 5.23 +2.349										+2 969.03										+2 969.03									
+1.83										40 -2.35										+2 969.03										+2 969.03									
										40 1.88 03 9.9730										+2 969.03										+2 969.03									
										9.8830										9.9068										9.9068									
										9.5337										9.5334										9.5337									
										9.8560										9.8779										9.8779									
+6.68 9.82957										+6.28 9.80987										+6.28 9.80987										+6.28 9.80987									
17 4.90 1.50569										17 3.57 1.72925										16 30.2 4.85										16 30.2 4.85									
80 1.42862										16 4.85 1.65224										+10.146										+10.146									
1170										42										0.8359										0.8359									
17 58.50										16 42.10										16 39.35										16 39.35									
-26.83 49										49 7										0.0263										0.0263									
3167 47 4116										47 4295										9.4402										9.4402									
50 5 16.68										50 45 21.35										54 5 36.18 5100										54 5 36.18 5100									
-17 4220 47 2463										47 2616										-17 4220										-17 4220									
-28										+8.61										+8.61										+8.61									
-45										+7.58										+7.58										+7.58									
+729										+4.88										+4.88										+4.88									
+12 39 48.59										+16.53										+16.53										+16.53									
-17 35.52 48 26.5										-17 38.40 48 28.0										-17 38.40 48 28.0										-17 38.40 48 28.0									
49 47 39.48										49 46 36.67										53 47 39.48										53 47 39.48									
July 16										July 15 253 2.1 9.9814										July 16										July 15 253 2.4 9.9815									







815  
July 16814  
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July 16

July 15

-100

+1335

-100

58 58.2 59 8.3  
37.4 11.7  
44.2 15.0  
18.6  
80 23.3

0 7.2 0 10.3  
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59 52.6 0 11.7  
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1 9.7 1 13.0  
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+3725 +2 9.57 +886  
+ 38 -209  
+2 8.25 -1.68 -2.23  
+2 0.2 +2026  
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1 20.77

0 4.25 860  
141.7 0 17.20  
+3.03 +2 9.74 +4.885  
+ 15 -204  
+2 9.66 20 -2.11 +2 8.26  
-2.03 +2019  
-2 26.86 +2489  
-2.49  
1 24.37 9.9862

59 16.96 9.27  
56.53 0 18.54  
+2201 +2 9.57 +889  
+ 38 -204  
+ 19 -188  
-2 26.96 +2471  
-2.47  
2 24.33

1 4.17 973  
13.90 1 19.46  
+5.56 +2 9.74 +4.962  
+ 19 -199  
-2 26.96 +2471  
-2.47  
3 26.66 9.9862

+1046 9.77558  
41 54.8 157113  
6.1 14.5983  
0.0  
42 0.45  
-28.83 53  
41 8.62 23 42.57  
53 16.73 -17.45  
-17 44.68 23 25.06 -3.38  
-36 +8.89  
-30 +8.17  
+ 10.94 +3.77  
+ 1.18 1 8.99 +17.45  
-17 34.22 24 10.9  
53 23 32.05

+10.49 9.77626  
48.7 8.6 24.6144 2.594  
2.2 0.37082 1.0360  
308 0.6974 546  
48.7 15.40 9.9862 47 27.30  
-2.35 53 0.0154 -17.06 53  
48.7 13.05 17.8 35.9 9.2992 47 10.24 18 39.6  
53 34.35 30 -17.17 53 35 38.11 -17.44  
-17 42.20 18 46.12 -3.32  
-36 +8.89  
-30 +8.17  
+ 10.81 35 +3.72  
+ 1.18 212.44 +17.17  
-17 31.71 44 1.44  
53 16 53.10 18 31.40

+10.53 9.77626  
47 31.0 13.4262  
33.6 1.23200  
546  
47 27.30  
-17.06 53  
47 10.24 18 39.6  
53 35 38.11 -17.44  
-17 44.68 17 46.52 -3.32  
-36 +8.90  
-30 +8.17  
+ 10.84 +3.67  
+ 1.18 212.31 +17.44  
-17 34.15 18 31.5  
53 17 53.43

+8.79 9.779258  
47 40.4 0.74507 2.694  
21 0.65107 1.0294  
11.85 0.6899  
27 59.25 9.9866  
-4.48 51 0.0126  
27 54.77 37 20.17 9.2819  
51 54 53.58 -17.04  
-17 42.20 37 3.13 -3.25  
-36 +8.88  
-30 +8.17  
+ 9.45 +7.83  
+ 9.10 +3.58  
+ 1.15 3 13.69 +17.04  
-17 33.41 37 47.3  
51 37 11.38

July 15 255.21 9.9856

no photo taken

17 1 10 +1833 -1.739

+53 20 -12

0 434 8.9526

22.5 9.4030

59 38.3 59 85.5

41.5 38.8

44.0 9.1 42.1

82 46.0 0.1248

49.3 8.3556

-29.63 8.4511

123.8 211.7 9.0337

59 41.2 59 46.34

26.54 59 14.77

+2 9.74 88.3

+2 9.62 20 -2.08

-202 -2.15

+1.909 0.2 +2020

+2.500 -1.98 1 24.88 +2480

+45.81 -2.48

1 21.90 9.9856

9.9044

9.4030

9.8900

+10.51 9.77609 +7.763

42 2.21 1.42423 2.589

43.3 1.31344 +1.0352

68.4 0.7052

42 34.20 9.9856

+20.58 53 0.0150

42 54.78 22 21.88 9.3074

53 39 53.57 -17.16

-17 42.20 22 4.72 -3.36

-19 +8.86

-39 +7.87

+ 10.91 +3.79

+ 1.18 1 9.92 +17.16

-17 31.69 22 50.5

53 22 11.87



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814				816											
July 15 259 1 999.20				July 17				July 17 259 24 999.25				July 15 259 37 999.28			
17 15 47	+1.318	-1.754		17 17 20	+1.377	-1.695		17 17 20	+1.377	-1.695		17 18 10	+1.450	-1.622	
+53 12	-13			+52 13	.00			+52 13	.00			+50 58	-13		
15 210				16 526				16 526				17 415			
130				149				149				594			
13 276 13	468	9.0463	18 385 13	453				14 557 15	193	9.0367	16 278 16	11.5			
365	442		314	488				10	237		314	148			
306	338		372	520				57	265		365	180			
	560	0.1199		556					397	0.1387		213			
9.3	594	8.2297	9.2	591					328	8.1992	85	344			
		8.3263								8.3014					
		9.0383								9.0292					
13 2590 13	5264		13 3070 13	5216				15 1534	1308		16 3190 16	1800			
+2674	+2	9.73	+2146	+2	9.72	+882		+2536	+2	9.72	-1370	+2	773	+961	
		.15				-156									
+2 963	.22	-1.61	+2 1036			-173		+2 1034			+2 964				
	.03	+2041				+2010									
-11.87	16	2.27	-11.87	16	2.22	+2563									
+34.56	-2.60	+2599	+34.56	15 5766				-12.39	17 3620	+2579	-1305	18 2764	-2.63	+2626	
	15 5767	9.9920		15 5766				+33.30	17 3362	9.9235	+32.67	18 2801	9.99		
		9.9034								9.8978					
		9.2800								9.2647					
		9.8954								9.8903					
+1027	977744	+7860	+1025	977744				+945	978723	+7768	+8.29	979918			
54 21	142716	2600	53 332	133163				51 270	140415	2658	6	534	114301	2732	
204	131772	+10460	388	123687				428	131918	+10426	114	105531	+10372		
225		0.5822	620					698		0.5669	48		0.5380		
54 11.25		9.9920	53 31.00	10				51 34.90		9.9925	4	2.40	9.9928		
-2075	53	0.0195	+17.25	53				+20.85	52	0.0181	+11.36	50	0.0159		
53 5047	11 2575	9.1834	53 4825	11 2421				51 5575	13 1601	9.1625	7	1376	58 068	9.1461	
5328 5788	-1726		5329 0.40	10 -1784				5230 5260	-1779		51 15 3459	-1711			
-17 4220	11 849	-253	-17 4604	11 687				-17 4604	12 3822	-247	-17 4220	57 4357	-240		
-	.19	+8.99	-	12				-	.17	+906	-	.05	+9.01		
-	63	+7.95	-	49				-	.22	+852	-	.30	+7.88		
+1072		+2.85	+1068					+1072		+2.88	+850		+2.62		
+17	154782	+17.26	+18	154779	+17.84			+17	17 21.23	+17.79	+14	18 11.98	+17.11		
-17 3213	11 43.0		-17 3579	11 40.9				-17 3659	13 31.5		-17 3391	58 16.2			
53 11 1568			53 11 1396					52 13 656			50 575239				
July 15 261 41 999.54				July 17				July 15 262 4 999.58				July 17			
17 26 35	+1.475	-1.577		17 27 58	+1.505	-1.567		17 27 58	+1.505	-1.567		17 27 58	+1.505	-1.567	
+50 23	-13			+49 50	-13			+49 50	-13						
25 584		8.9057		27 283		8.8972		27 283		8.8972					
236		9.1603		529		9.1399		529		9.1399					
24 467 24	503	9.0192	24 434 24	268				25 309 25	588	9.0142	26 274 25	587			
540	562		478	300				402	32		326	30			
585	596		550	333				455	54		381	50			
	37	0.1688		366					85	0.1775		83			
88	59	8.0660	90	397				88	115	8.0371	88	113			
	-25.88	8.1795								8.1541					
	3977	9.0146								9.0100					
24 5307	24 5064		24 4873	34 3338				25 3953	26 528		26 3370	26 504			
-1941	+2	9.72	-1545	+2	9.72	+987		+2575	+2	9.72	-2766	+2	9.71	+1007	
		.13				-107				.13				-100	
+2 962	.20	-1.15	+2 1022			-124		+2 962	.20	-1.08	+2 1021			-116	
	.03	+1.933				+1.903			.03	+1.912		.02	+1.883		
-1328	26 43.28	+2689	-1328	26 43.30	+26.59			-1354	28 14.90	+2.702	-1354	28 15.05	+2674		
+26.28	-2.69		+26.28	-2.66				+25.02	-2.70		+25.02	-2.67			
	26 4059	9.9954		26 4064					28 12.20	9.9958		28 12.37			
		9.8866								9.8831					
		9.1003								9.1399					
		9.8820								9.8489					
+7.50	9.80458	+7621	+7.48	9.80458				+7.00	9.80957	+4567	+6.97	9.80957			
42 453	128503	2767	43 124	115893				16 334	141078	2799	16 338	144185			
45	120573	+1.0388	29.9	112131				508	133347	+1.0366	499	137922			
1098		0.4625	427					842		0.4421	837				
42 54.90		9.9954	43 21.35					16 42.10		9.9958	16 41.85				
+16.06	50	0.0165	-1322	50				-21.55	49	0.0156	-23.95	49			
43 10.96	22 269	9.0469	43 8.13	22 1.66				16 20.55	48 5260	9.0230	16 17.90	48 5738			
5039 3739	-1722		5039 40.22	-1722				50 6 2780	-1709		50 6 3045	-1769			
-17 4220	21 45.57	-1.92	-17 46.04	21 43.94	-1.94			-17 4220	48 3351	-1.83	-17 46.04	48 3369	-1.85		
-	.10	+9.06	-	.06	+9.12			-	.18	+9.07	-	.21	+9.13		
-	43	+7.90	-	48	+8.49			-	25	+7.88	-	24	+8.47		
+7.90		+2.08	+7.88		+2.05			+7.31		+1.97	+7.29		+1.94		
	.13	+17.12		.14	+17.72				.12	+17.09		.13	+17.69		
-17 34.70	22 11.8		-17 38.56	22 10.2				-17 3520	49 0.5		-17 39.07	48 58.7			
50 21 5519			50 21 5418					49 48 4660			49 48 4441				







[illegible]



814				816			
July 15 265.37 9.9987				July 17			
17 43 12	+1.281	-1.791					
758 21	-14						
41 463		8.9521					
215		8.8833					
39 39.3 40	106	9.0478	39 44.7 40	104			
460	14.0		533	138			
502	173		586	172			
	306	0.1076		304			
92	241	7.8354	91	240			
		7.9311					
		9.0465					
1855	866		1596	861			
39 451.7 40	1732		39 53.30 40	1722			
+32.15	+2	9.7110	+24.02	+2	9.70	+8.57	
		-0.63				-0.63	
+2.960	23	-0.65	+2.1024			-0.70	
	.03	+2.080				+2.048	
-1154	42	26.92	-1154	42	27.26	+2.772	
+13.95		-2.81	+13.95		-2.77		
	42	24.1		42	24.47		
		9.9042					
		8.8833					
		9.9029					
+10.67	9.77592	+4.996	+10.75	9.77592			
45 202	1.57718	2.591	44 33.1	1.38057			
374	1.29622	+1.0587	48.1	1.28429			
176		0.1855	812				
45 28.80	53	9.9987	44 40.60				
-24.90		0.0248	+19.24	53			
45 3.90	20	8.7875	44 59.84	20	13.22		
53.37	44.45	-17.31	53.37	48.51	-17.74		
-17	42.20	19	53.61	-1.02	19	58.28	-1.03
	227			+9.13			+9.19
	08			+8.05			+8.65
+1084		+1.15	+1081			+1.13	
	.18	42.12.64	+17.31		.19	42.12.95	+17.94
-17	31.53	20	9.6	-17	35.29	20	9.2
53	20	225		53	20	247	
July 15 267.35 9.9996				July 17			
17 50 3	+1.473	-1.599					
+50 8	-14						
49 33.6		8.9021					
8.7		8.6250					
47 50.5 48	37	9.0170	47 40.2 48	34			
344	6.7		444	6.6			
390	100		492	9.6			
	13.0	0.1682		13.2			
88	16.5	7.5271	88	16.2			
		7.6420					
		9.0166					
47 10.37	48	4.99	47 13.38	48	4.50		
34.57	48	9.70	47 44.60	48	9.80		
+35.41	+2	9.70	+25.20	+2	9.70	+9.86	
		-0.31				-0.31	
+2.958	22	-0.33	+2.1020			-0.36	
	.03	+1.942				+1.912	
-13.25	52	19.56	-13.25	50	19.80	+2.831	
+7.74		-2.85	+7.74		-2.83		
	50	16.77		50	16.77		
		9.8857					
		8.6250					
		9.8849					
+7.03	9.80686	+7.668	+7.34	9.80686			
67 14.8	1.54912	2.781	56 2.30	1.48140			
33.8	1.46911	+1.0449	38.7	1.33606			
486		9.9272	61.7				
57 24.30	50	9.9996	56 30.85				
-29.45		0.0191	+21.68	50			
56 54.85	8	8.5101	56 52.53	8	17.12		
50 25	53.50	-17.13	50 25	53.82	-17.78		
-17	42.20	8	-17	46.04	7	59.34	-57
	34			.17			+9.21
	36			.21			+8.54
+761		+7.94	+7.59			+6.0	
	.12	50	3.53		.13	50	3.72
-17	35.17	8	8.9	-17	38.70	8	7.1
50	8	1130		50	8	9.78	

814				816			
July 15 265.55 9.9989				July 17			
17 43 12	+1.495	-1.574					
758 21	-14						
41 463		8.8967					
215		8.8525					
39 39.3 40	575	9.0139	39 44.7 40	573			
460	6.1		533	6.1			
502	13.0		586	13.0			
	38	0.1746		38			
92	10.3	7.7492	91	10.3			
		7.8664					
		9.0128					
1855	3194		1596	3194			
39 451.7 40	1732		39 53.30 40	1722			
+32.15	+2	9.7110	+24.02	+2	9.70	+8.57	
		-0.63				-0.63	
+2.960	23	-0.65	+2.1024			-0.70	
	.03	+2.080				+2.048	
-1154	42	26.92	-1154	42	27.26	+2.772	
+13.95		-2.81	+13.95		-2.77		
	42	24.1		42	24.47		
		9.9042					
		8.8833					
		9.9029					
+10.67	9.77592	+4.996	+10.75	9.77592			
45 202	1.57718	2.591	44 33.1	1.38057			
374	1.29622	+1.0587	48.1	1.28429			
176		0.1855	812				
45 28.80	53	9.9987	44 40.60				
-24.90		0.0248	+19.24	53			
45 3.90	20	8.7875	44 59.84	20	13.22		
53.37	44.45	-17.31	53.37	48.51	-17.74		
-17	42.20	19	53.61	-1.02	19	58.28	-1.03
	227			+9.13			+9.19
	08			+8.05			+8.65
+1084		+1.15	+1081			+1.13	
	.18	42.12.64	+17.31		.19	42.12.95	+17.94
-17	31.53	20	9.6	-17	35.29	20	9.2
53	20	225		53	20	247	
July 15 267.57 9.9997				July 17			
17 50 3	+1.457	-1.615					
+50 8	-15						
49 33.6		8.9063					
8.7		8.5535					
47 50.5 48	37	9.0195	47 40.2 48	34			
344	6.7		444	6.6			
390	100		492	9.6			
	13.0	0.1635		13.2			
88	16.5	7.5271	88	16.2			
		7.6420					
		9.0166					
47 10.37	48	4.99	47 13.38	48	4.50		
34.57	48	9.70	47 44.60	48	9.80		
+35.41	+2	9.70	+25.20	+2	9.70	+9.86	
		-0.31				-0.31	
+2.958	22	-0.33	+2.1020			-0.36	
	.03	+1.942				+1.912	
-13.25	52	19.56	-13.25	50	19.80	+2.831	
+7.74		-2.85	+7.74		-2.83		
	50	16.77		50	16.77		
		9.8857					
		8.6250					
		9.8849					
+7.56	9.80458	+7.770	+7.59	9.80458			
41 55.8	1.41697	2.765	41 2.0	1.50653			
33.8	1.33467	+1.0465	38.7	1.33606			
486		9.8557	61.7				
57 24.30	50	9.9997	56 30.85				
-29.45		0.0197	+21.68	50			
56 54.85	8	8.4403	56 52.53	8	17.12		
50 25	53.50	-17.14	50 25	53.82	-17.79		
-17	42.20	8	-17	46.04	7	59.34	-48
	34			.18			+9.21
	36			.31			+8.55
+761		+7.95	+7.52			+6.0	
	.12	51	31.57		.13	51	31.63
-17	35.17	23	19.8	-17	38.45	23	21.4
50	8	2281		50	8	2281	



814	July 15	266 2	999920	814	July 17	266 28	999922	814	July 15	266 28	999922	814	July 17	266 28	999922	
17 43 52	+1261	2590	17 43 36	+1263	2582	17 43 36	+1263	2582	17 43 36	+1263	2582	17 43 36	+1263	2582	17 43 36	
+53 37	-14	-1811	+53 36	-14	-1809	+53 36	-14	-1809	+53 36	-14	-1809	+53 36	-14	-1809	+53 36	
43 264		8.9568	45 10.9		8.9560	45 10.9		8.9560	45 10.9		8.9560	45 10.9		8.9560	45 10.9	
37.7		8.8402	36.1		8.7898	36.1		8.7898	36.1		8.7898	36.1		8.7898	36.1	
41 374 41 498		9.0509	43 43 346		9.0504	43 43 346		9.0504	43 43 346		9.0504	43 43 346		9.0504	43 43 346	
338 532			10.7 38.0			10.7 38.0			10.7 38.0			10.7 38.0			10.7 38.0	
392 367			15.0 4.15			15.0 4.15			15.0 4.15			15.0 4.15			15.0 4.15	
75 0.2		0.1007	4.5 4.50		0.1014	4.5 4.50		0.1014	4.5 4.50		0.1014	4.5 4.50		0.1014	4.5 4.50	
3.5		7.7968	4.3 4.83		7.7458	4.3 4.83		7.7458	4.3 4.83		7.7458	4.3 4.83		7.7458	4.3 4.83	
		7.8909			7.8402			7.8402			7.8402			7.8402		
		9.0497			9.0496			9.0496			9.0496			9.0496		
41 999 2834		9.41	43 302 3074		9.71	43 302 3074		9.71	43 302 3074		9.71	43 302 3074		9.71	43 302 3074	
3330 41 5665		3137	1007 43 2143		9.71	1007 43 2143		9.71	1007 43 2143		9.71	1007 43 2143		9.71	1007 43 2143	
+2338 +2	9.71	+8.36	+31.41 +2	9.71	+8.37	+31.41 +2	9.71	+8.37	+31.41 +2	9.71	+8.37	+31.41 +2	9.71	+8.37	+31.41 +2	
	1.5	-0.57		1.5	-0.57		1.5	-0.57		1.5	-0.57		1.5	-0.57		
+2 9.59106	.24	-0.59	+2 9.59106	.24	-0.59	+2 9.59106	.24	-0.59	+2 9.59106	.24	-0.59	+2 9.59106	.24	-0.59	+2 9.59106	
	.03	+2.097		.03	+2.095		.03	+2.095		.03	+2.095		.03	+2.095		
-1135	44 6.24	+28.17	-1137	45 51.07	+28.28	-1137	45 51.07	+28.28	-1137	45 51.07	+28.28	-1137	45 51.07	+28.28	-1137	
+12.60	-2.82		+12.25	-2.83		+12.25	-2.83		+12.25	-2.83		+12.25	-2.83		+12.25	
44 3.45	9.9990		45 182.4106	9.9992		45 182.4106	9.9992		45 182.4106	9.9992		45 182.4106	9.9992		45 182.4106	
	9.9059			9.9056			9.9056			9.9056			9.9056			
	8.8402			8.7898			8.7898			8.7898			8.7898			
	9.9049			9.9048			9.9048			9.9048			9.9048			
+10.73	9.77319	+10.82	+11.02	9.77336	+10.41	+11.02	9.77336	+10.41	+11.02	9.77336	+10.41	+11.02	9.77336	+10.41	+11.02	
27 510 1.36854	+8.033	9.77319	30 79 1.49707	+8.032	9.77336	30 79 1.49707	+8.032	9.77336	30 79 1.49707	+8.032	9.77336	30 79 1.49707	+8.032	9.77336	30 79 1.49707	
9.5 1.25515	2.572	1.39851	34.7 1.38355	2.575	1.50920	34.7 1.38355	2.575	1.50920	34.7 1.38355	2.575	1.50920	34.7 1.38355	2.575	1.50920	34.7 1.38355	
05	10.605	2.51	326	10.607	2.51	326	10.607	2.51	326	10.607	2.51	326	10.607	2.51	326	
28 0.25	0.1422	3.59	30 16.30	0.0920	4.60	30 16.30	0.0920	4.60	30 16.30	0.0920	4.60	30 16.30	0.0920	4.60	30 16.30	
-1779 53	9.9990	12.25	-2418 53	9.9992	23.00	-2418 53	9.9992	23.00	-2418 53	9.9992	23.00	-2418 53	9.9992	23.00	-2418 53	
27 42.26 37 3462	0.0255	14.94	29 52.12 35 2505	0.0256	14.94	29 52.12 35 2505	0.0256	14.94	29 52.12 35 2505	0.0256	14.94	29 52.12 35 2505	0.0256	14.94	29 52.12 35 2505	
53 53 6.09	8.7459	37 3524	53 52 56.23	8.6954	35 2478	53 52 56.23	8.6954	35 2478	53 52 56.23	8.6954	35 2478	53 52 56.23	8.6954	35 2478	53 52 56.23	
-17 42.20	-17.32		-17 42.20	-17.31		-17 42.20	-17.31		-17 42.20	-17.31		-17 42.20	-17.31		-17 42.20	
37 17.30	-92		35 7.74	-82		35 7.74	-82		35 7.74	-82		35 7.74	-82		35 7.74	
	+9.14			+9.14			+9.14			+9.14			+9.14			
	+8.06			+8.06			+8.06			+8.06			+8.06			
	+1.04			+1.03			+1.03			+1.03			+1.03			
+11.14	+1.11		+11.14	+1.11		+11.14	+1.11		+11.14	+1.11		+11.14	+1.11		+11.14	
+18 43 52.16	+17.32		+18 43 52.33	+17.31		+18 43 52.33	+17.31		+18 43 52.33	+17.31		+18 43 52.33	+17.31		+18 43 52.33	
-17 31.47 37 29.9	-17 35.22	37 29.9	-17 31.18 35 19.0	-17 35.63	35 18.3	-17 31.18 35 19.0	-17 35.63	35 18.3	-17 31.18 35 19.0	-17 35.63	35 18.3	-17 31.18 35 19.0	-17 35.63	35 18.3	-17 31.18 35 19.0	
53 37 2389	53 37 24.12		53 35 14.03	53 35 14.07		53 35 14.03	53 35 14.07		53 35 14.03	53 35 14.07		53 35 14.03	53 35 14.07		53 35 14.03	
July 17	268 8	999922	July 17	268 53	999922	July 17	269 13	999922	July 17	269 13	999922	July 17	269 13	999922	July 17	269 13
17 52 17	+1.391	2257	17 55 17	+1.347	2369	17 56 35	+1.371	2309	17 56 35	+1.371	2309	17 56 35	+1.371	2309	17 56 35	
+51 31	00	-1681	+52 13	00	-1825	+51 51	00	-1701	+51 51	00	-1701	+51 51	00	-1701	+51 51	
51 495		8.9235	54 534		8.9347	56 85		8.9287	56 85		8.9287	56 85		8.9287	56 85	
31.2		8.5129	135		8.2898	529		8.1358	529		8.1358	529		8.1358	529	
50 92 50 164	9.0299	53 82 53 151	54 534	9.0368	53 82 53 151	54 52 54 351	9.0331	53 82 53 151	54 52 54 351	9.0331	53 82 53 151	54 52 54 351	9.0331	53 82 53 151	54 52 54 351	
134 195		186			186	93		186	93		186	93		186	93	
178 227		316			316	180		316	180		316	180		316	180	
260	0.1433	353		0.1294	353		0.1370	353		0.1370	353		0.1370	353		
293	7.4364	383		7.2245	383		7.0645	383		7.0645	383		7.0645	383		
	7.5428			7.3266			7.1687			7.1687			7.1687			
	9.0297			9.0367			9.0330			9.0330			9.0330			
404 1139		186	53 620 53 3178		1059	54 375	2078		54 375	2078		54 375	2078		54 375	
1347 50 2278		620	53 3178		3178	54 375	2078		54 375	2078		54 375	2078		54 375	
+9.31 +2	9.69	+15.58	+2 9.69	+9.02	+15.58	+32.39	+2 9.69	+9.17	+32.39	+2 9.69	+9.17	+32.39	+2 9.69	+9.17	+32.39	
	34	-0.25		-0.15			-0.11			-0.11			-0.11			
+2 1000	-0.00	-0.28	+2 1002	-0.00	-0.17	+2 1000	-0.00	-0.12	+2 1000	-0.00	-0.12	+2 1000	-0.00	-0.12	+2 1000	
	.03	+1.971		.02	+2.023		.03	+1.986		.03	+1.986		.03	+1.986		
-1252	52 32.78	+2.849	-1212	55 31.80	+2.873	-1233	56 51.56	+2.880	-1233	56 51.56	+2.880	-1233	56 51.56	+2.880	-1233	
+6.03	-2.83		+3.69	-2.87		+2.61	-2.88		+2.61	-2.88		+2.61	-2.88		+2.61	
52 2993	9.9998		55 28.93	9.9997		56 18.68	9.9997		56 18.68	9.9997		56 18.68	9.9997		56 18.68	
	9.8936			9.8979			9.8956			9.8956			9.8956			
	8.5129			8.2898			8.1358			8.1358			8.1358			
	9.8934			9.8978			9.8955			9.8955			9.8955			
+8.58	9.79399	+9.66	+9.66	9.78723	+9.03	+8.61	9.79079	+9.861	+8.61	9.79079	+9.861	+8.61	9.79079	+9.861	+8.61	
33 464 0.96895	2.702	50 54.3	50 54.3	1.19257	2.659	54 329 151.041	2.680		54 329 151.041	2.680		54 329 151.041	2.680		54 329 151.041	
18 0.89074	1.0523	83		1.10760	1.0560	58.5 1.42900	1.0541		58.5 1.42900	1.0541		58.5 1.42900	1.0541		58.5 1.42900	
1082	9.8151	26		9.5920	26	12	9.4380		12	9.4380		12	9.4380		12	
33 54.10	9.9998	51 1.30		9.9999	51 1.30	13 26.85	9.9999		13 26.85	9.9999		13 26.85	9.9999		13 26.85	
7.78 51	0.0221	+12.81	52	0.0237	+12.81	51 13.47	8.0319		51 13.47	8.0319		51 13.47	8.0319		51 13.47	
34 1.88 31 9.01	8.4065	51 14.11	13 57.86	8.1847	51 14.11	52 8 50.70			52 8 50.70			52 8 50.70			52 8 50.70	
51 48 41.47	12.84	52 31 24	52 31 24	-12.86	52 31 24	52 8 50.70			52 8 50.70			52 8 50.70			52 8 50.70	
-17 46.04	31.17	-44	13 40.00	-26	13 40.00	-17 46.04	-18		-17 46.04	-18		-17 46.04	-18		-17 46.04	
	30	+9.21		+9.21			+9.21			+9.21			+9.21			
	55	+8.60		+8.63			+8.61			+8.61			+8.61			
+9.00	+47	+9.70		+28		+9.35	+20		+9.35	+20		+9.35	+20		+9.35	
+16	+17.84	+17.84	+17.84	+17.86		+17	+17.84		+17	+17.84		+17	+17.84		+17	
-17 37.46	30 57.2		-17 36.38	13 43.7		-17 37.46	56 36.35	+17.84	-17 37.46	56 36.35	+17.84	-17 37.46	56 36.35	+17.84	-17 37.46	
51 31 043			52 13 48.20			51 31 043	50 58.2		51 31 043	50 58.2		51 31 043	50 58.2		51 31 043	



816

July 17	269 25	0.0000	July 17	269 39	0.0000	July 17	269 54	0.0000	July 17	270 5	0.0000
17 57 23	+1.446	-1.626	17 58 21	+1.212	-1.860	17 59 20	+1.393	-1.679	18 0 4	+1.475	-1.597
+50 34.00			+54 17 00			+51 27 00		+50 4 00			
56 542	8.9088	8.0278	57 572	8.9172	7.7852	58 524	8.9228	7.2412	57 59 34	8.9011	7.1627
344	9.0210	9.0210	172	9.0577	9.0577	269	9.0294	9.0294	39	9.0164	9.0164
55 50 55	230	55 510 56	184	55 557	318	56 558 57	313	57 510 58	57	56 560	58
132	294	1.2	253	389	0.0835	590	346	33	12.1	15.5	0.1668
187	327	6.9166	325	6.7531	6.8436	312	6.1647	6.2713	18.5	6.0638	6.1991
92	360	7.0288	86	6.8436	9.0577	348	6.2713	9.0294	1693	6.06	9.0164
399	1473	9.0210	1681	1269	9.0577	1779	1394	1693	5643	1310	9.0164
55 1830 58	2946	+9.68	55 5603 56	2538	+8.11	56 5730 57	2798	+9.32	57 5643 58	1310	9.0164
+16.16	+2	9.69	+29.35	+2	9.69	+28.68	+2	9.69	+15.69	+2	9.69
+2	10.00	-	+2	10.04	-	+2	10.01	-	+2	9.98	-
-13.92	-	0.02	-	0.03	+2.102	-	0.02	+19.69	-	0.03	+1.911
+1.96	57 3946	+2.883	10.92	58 3542	+2.902	12.56	59 3799	+2.898	-13.28	0	2210
	-2.78		+1.26	58 3252	0.0000	+0.45	59 35.09	0.0000	-0.18	0	1920
57 36.58	0.0000	9.8898	9.8898	9.9095	9.9095	9.9095	9.8933	9.8933	0	9.8847	9.8847
		8.0078	8.0078	7.7852	7.7852	7.7852	7.2412	7.2412	4.5	7.1627	7.1627
		9.8878	9.8878	9.9095	9.9095	9.9095	9.8933	9.8933	4.5	9.8847	9.8847
+8.00	9.80290	+7.723	+11.48	9.76625	+8.119	+8.63	9.79463	+7.822	+7.53	9.80746	+7.665
31 44	1.20844	2.755	47 351	1.46761	2.533	37 55	1.45758	2.702	4.8	1.19562	2.785
199	1.13914	+1.0478	398	1.36166	+1.0652	308	1.38001	+1.0524	4.5	1.13088	+1.0453
243		9.3100	49		9.0881	263		8.5441	1132		8.9647
31 12.15		0.0000	47 32.45		0.0000	37 13.15		0.0000	0	56.60	0.0000
+13.77	50	0.0203	+23.00	54	0.0274	+23.99	51	0.0222	+13.5250		0.0192
31 25.92	33 4439	7.8956	47 55.45	17 18.34	7.6954	37 37.14	27 3380	7.1352	10.12	3	5972
50 51 2243	-17.788	-	54 34 5290	-17.93	-	51 45 1121	-17.83	-	50 21 3823	-17.76	-
-17 46.04	33 2668	-14	-17 46.04	17 6.41	-0.8	-17 46.04	27 1597	-0.2	-17 46.04	3	41.76
-	1	+9.22	-	22	+9.22	-	22	+9.22	-	07	+9.22
-	17	+8.54	-	35	+8.70	-	31	+8.60	-	13	+8.54
+8.10		+14	+11.84		+0.9	+9.00		+0.3	+7.60		-0.2
+14	57 23.56	+17.788	+21	58 21.60	+17.93	+16	59 22.53	+17.83	+13	0 5.92	+17.76
-17 38.04	33 28.6	-17 34.56	17 1.7			-17 37.41	27 16.4	-17 38.51	3 41.8		
50 33 3639		54 17 6.86				51 27 2517		50 3 5219			
July 17	271 19	9.9999	July 17	271 45	9.9998	July 17	272 3	9.9999	July 17	272 7	9.9999
18 5 2	+1.305	-1.767	18 6 43	+1.341	-1.701	18 7 53	+1.393	-1.679	18 8 13	+1.195	-1.675
+52.53		+51 51.00				+51 27.00		+54 31.00			
4 362	8.9452	6 15.8	8.9287	7 255	8.9287	7 255	8.9230	7 487	8.9711	8.9711	8.9711
530	8.3613	52.6	8.4848	274	8.4848	274	8.5535	312	8.5674	8.5674	8.5674
2 510 3	596	9.0434	4 10.7 4	435	9.0331	5 34.7 5	280	9.0296	6 36 6	98	9.0603
558	39	14.4	470	502	365	314	343	314	84	132	167
02	62	184	502	537	344	343	343	343	138	200	0.0774
84	94	0.1156	537	0.1370	441.35	85 22.3	414	0.1440	80	200	0.0774
130	73065	82	568	741.35	75179	75179	75831	74765	338	75385	75385
	74047			75179	9.0329	1457	1729	75831	80	76277	76277
	9.0433	435	351.2	9.0329	9.0329	5 1457	1729	9.0293	6 258	835	9.0602
2 55.73	632	4	1450 4	5024	9.0329	5 1457	1729	9.0293	6 258	835	9.0602
+10.49	+2	9.69	+35.74	+2	9.69	+31.92	+2	9.69	+6.10	+2	9.69
+2	10.03	-	+2	10.00	-	+2	10.01	-	+2	10.04	-
-11.74	-	0.02	-	0.03	+0.27	-	0.02	+0.31	-	0.02	+0.35
-4.05	5 16.25	+2.946	-12.34	7 0.24	+19.85	-12.55	8 11.07	+19.69	-10.77	8 26.74	+2.113
	-2.95		-54.0	-2.95	+2.953	-6.30	-2.96	+2.960	-6.48	-2.98	+2.980
5 13.30	9.9999	9.9999	6 57.29	9.9998	9.9998	8 8.11	9.9999	9.9999	8 23.76	9.9999	9.9999
	9.9018	9.9018		9.8956	9.8956		9.8934	9.8934		9.9109	9.9109
	8.3613	8.3613		8.4848	8.4848		8.5535	8.5535		8.5674	8.5674
	9.9017	9.9017		9.8954	9.8954		9.8931	9.8931		9.9106	9.9106
+10.39	9.78063	+7.723	+8.71	9.79079	+7.860	+8.82	9.79463	+7.818	+11.81	9.76378	+7.818
11 68	1.02098	2.617	13 168	1.55315	2.680	35 242	1.50406	2.701	32 538	0.90849	2.517
210	0.92921	+1.0591	325	1.47174	+1.0540	39.1	1.42649	+1.0519	9.1080007		+1.0657
278		9.6635	493		9.7870	633		9.8557	29		9.8696
11 13.90		9.9999	13 24.65		9.9998	35 31.65		9.9997	33	1.45	9.9997
+6.50	52	0.0249	+29.63	51	0.0228	+26.70	51	0.0220	+6.31	54	0.0276
11 22.40	53 50.30	8.2431	13 54.28	51 16.74	8.3804	35 58.35	29 12.78	8.4469	33 7.76	32 636	8.4783
50 11 25.95	-17.73	+31	52 8 54.07	-17.79	+41	51 46 50.00	-17.76	+48	54.49	40.59	-17.77
-7 46.04	53 32.47	+9.21	-17 46.04	50 58.95	+9.21	-17 46.04	28 55.02	+9.21	-17 46.04	31 48.49	+50
-	0.3	+8.65	-	33	+8.61	-	27	+8.59	-	02	+9.21
-	17	-34	+9.35	-	-44	+9.00	-	-32	-	42	+8.71
+10.41		+17.83	+1.17	6 44.95	17.79	+16	7 55.56	+17.76	+21	8 12.99	+17.87
-17 35.5	53 28.4	-17 37.33	50 53.6			-17 37.22	28 48.72	-17 34.23	31 42.0		
52 53 39.91		51 51 8.03				51 29 3.96		54 31 54.55			



July 17 270.9				July 17 270.25				July 17 270.40				July 17 270.49			
18 0 19	+1.323	-1.749	8.9405	18 1 24	+1.423	-1.639	8.9124	18 2 26	+1.275	-1.797	8.9523	18 3 1	+1.198	-1.874	8.9706
+52.35	00	8.9405	7.4180	+50.47	00	8.9124	7.8617	+53.21	00	8.9523	8.0658	+54.30	00	8.9706	8.1539
17 59 522	349	8.9405	7.4180	0 557	474	8.9124	7.8617	2 1.1	210	8.9523	8.0658	2 374	340	8.9706	8.1539
58 41.5	58 46.3	8.9405	7.4180	59 554	59 318	8.9124	7.8617	0 50.3	0 240	8.9523	8.0658	1 319	1 274	8.9706	8.1539
45.6	48.7	8.9405	7.4180	12	25.0	8.9124	7.8617	55.0	275	8.9523	8.0658	364	312	8.9706	8.1539
50.6	52.0	8.9405	7.4180	55	38.5	8.9124	7.8617	0.8	310	8.9523	8.0658	1334	345	8.9706	8.1539
	55.3	8.9405	7.4180		31.6	8.9124	7.8617		34.5	8.9523	8.0658		38.0	8.9706	8.1539
	59.0	8.9405	7.4180		34.7	8.9124	7.8617		38.1	8.9523	8.0658		41.6	8.9706	8.1539
	-27.6	8.9405	7.4180		15.21	8.9124	7.8617		16.61	8.9523	8.0658		17.27	8.9706	8.1539
58 1374	58 530.3	8.9405	7.4180	60 15.21	59 14.16	8.9124	7.8617	0 55.3	0 310.2	8.9523	8.0658	1 37.3	1 34.54	8.9706	8.1539
-20.92	58 248.8	8.9405	7.4180	-32.38	+2 969	8.9124	7.8617	-24.35	+2 969	8.9523	8.0658	-21.10	+2 969	8.9706	8.1539
+2 1002	0	8.9405	7.4180	+2 999	0	8.9124	7.8617	+2 1003	0	8.9523	8.0658	+2 1004	0	8.9706	8.1539
-11.92	0	8.9405	7.4180	-12.91	1 38.31	8.9124	7.8617	-11.48	2 41.05	8.9523	8.0658	-10.78	3 16.17	8.9706	8.1539
-0.36	0	8.9405	7.4180	-1.17	1 35.40	8.9124	7.8617	-1.98	2 38.12	8.9523	8.0658	-2.43	3 13.23	8.9706	8.1539
	0 31.99	8.9405	7.4180			8.9124	7.8617			8.9523	8.0658			8.9706	8.1539
		8.9405	7.4180			8.9124	7.8617			8.9523	8.0658			8.9706	8.1539
		8.9405	7.4180			8.9124	7.8617			8.9523	8.0658			8.9706	8.1539
+ 9.56	9.78362	8.9405	7.4180	+ 7.78	9.80089	8.9124	7.8617	+ 10.38	9.77592	8.9523	8.0658	+ 11.44	9.76395	8.9706	8.1539
29 10.5	1.32056	8.9405	7.4180	17 4.35	1.57028	8.9124	7.8617	4.3	8.89	1.38650	8.9523	8.4	5.58	1.32428	8.9706
36.1	1.23198	8.9405	7.4180	59.0	1.43897	8.9124	7.8617	13.0	1.29022	8.9523	8.0658	11.8	1.21593	8.9706	8.1539
66.1	8.7202	8.9405	7.4180	102.5	8.7202	8.9124	7.8617	11.9	9.3680	8.9523	8.0658	5	6.76	9.4561	8.9706
29 18.30	0.0000	8.9405	7.4180	17 51.25	0.0000	8.9124	7.8617	44 5.95	0.0000	8.9523	8.0658	34 3.350	0.0000	8.9706	8.1539
-17.06	52	8.9405	7.4180	-27.48	50	8.9124	7.8617	-19.57	53	8.9523	8.0658	-16.44	50	8.9706	8.1539
29 124	36 1063	8.9405	7.4180	17 23.77	47 45.32	8.9124	7.8617	43 46.44	21 26.25	8.9523	8.0658	54 47 28.11	39 26.39	8.9706	8.1539
52.53	47.11	8.9405	7.4180	51 5 24.58	47 28.53	8.9124	7.8617	53 39 1.91	-17.38	8.9523	8.0658	54 47 28.11	39 26.39	8.9706	8.1539
-17 46.04	35 52.77	8.9405	7.4180	-17 46.04	47 28.53	8.9124	7.8617	-17 46.04	21 8.37	8.9523	8.0658	-17 46.04	30 8.48	8.9706	8.1539
-	12	8.9405	7.4180	-	28	8.9124	7.8617	-	15	8.9523	8.0658	-	11	8.9706	8.1539
-	60	8.9405	7.4180	-	39	8.9124	7.8617	-	57	8.9523	8.0658	-	70	8.9706	8.1539
+ 10.10	-	8.9405	7.4180	+ 8.30	-	8.9124	7.8617	+ 14.92	-	8.9523	8.0658	+ 12.04	-	8.9706	8.1539
+ 18	0.20.07	8.9405	7.4180	+ 17.86	1 22.49	8.9124	7.8617	+ 17.88	2 26.64	8.9523	8.0658	+ 17.88	3 2.45	8.9706	8.1539
-17 36.48	35 52.4	8.9405	7.4180	-17 38.26	47 27.4	8.9124	7.8617	-17 35.66	21 6.4	8.9523	8.0658	-17 34.60	30 6.0	8.9706	8.1539
52 36 1.07		8.9405	7.4180	50 47 38.54		8.9124	7.8617	53 21 15.87		8.9523	8.0658	54 30 14.95		8.9706	8.1539
July 17 272.19				July 17 272.19				July 17 272.19				July 17 272.19			
18 9 2	+1.414	-1.658	8.9179	18 9 2	+1.414	-1.658	8.9179	18 9 2	+1.414	-1.658	8.9179	18 9 2	+1.414	-1.658	8.9179
+51.8	00	8.9179	8.6066	+51.8	00	8.9179	8.6066	+51.8	00	8.9179	8.6066	+51.8	00	8.9179	8.6066
8 333	7.6	8.9179	8.6066	8 333	7.6	8.9179	8.6066	8 333	7.6	8.9179	8.6066	8 333	7.6	8.9179	8.6066
6 388	4.3	8.9179	8.6066	6 388	4.3	8.9179	8.6066	6 388	4.3	8.9179	8.6066	6 388	4.3	8.9179	8.6066
43.3	7.3	8.9179	8.6066	43.3	7.3	8.9179	8.6066	43.3	7.3	8.9179	8.6066	43.3	7.3	8.9179	8.6066
47.7	10.7	8.9179	8.6066	47.7	10.7	8.9179	8.6066	47.7	10.7	8.9179	8.6066	47.7	10.7	8.9179	8.6066
88	12.8	8.9179	8.6066	88	12.8	8.9179	8.6066	88	12.8	8.9179	8.6066	88	12.8	8.9179	8.6066
	36.9	8.9179	8.6066		36.9	8.9179	8.6066		36.9	8.9179	8.6066		36.9	8.9179	8.6066
6 43.3	7.38	8.9179	8.6066	6 43.3	7.38	8.9179	8.6066	6 43.3	7.38	8.9179	8.6066	6 43.3	7.38	8.9179	8.6066
+24.1	+2	8.9179	8.6066	+24.1	+2	8.9179	8.6066	+24.1	+2	8.9179	8.6066	+24.1	+2	8.9179	8.6066
+2 999	0	8.9179	8.6066	+2 999	0	8.9179	8.6066	+2 999	0	8.9179	8.6066	+2 999	0	8.9179	8.6066
-12.73	9	8.9179	8.6066	-12.73	9	8.9179	8.6066	-12.73	9	8.9179	8.6066	-12.73	9	8.9179	8.6066
-7.20	9	8.9179	8.6066	-7.20	9	8.9179	8.6066	-7.20	9	8.9179	8.6066	-7.20	9	8.9179	8.6066
	11.40	8.9179	8.6066		11.40	8.9179	8.6066		11.40	8.9179	8.6066		11.40	8.9179	8.6066
		8.9179	8.6066			8.9179	8.6066			8.9179	8.6066			8.9179	8.6066
		8.9179	8.6066			8.9179	8.6066			8.9179	8.6066			8.9179	8.6066
+8.42	9.79762	8.9179	8.6066	+8.42	9.79762	8.9179	8.6066	+8.42	9.79762	8.9179	8.6066	+8.42	9.79762	8.9179	8.6066
56 94	1.38220	8.9179	8.6066	56 94	1.38220	8.9179	8.6066	56 94	1.38220	8.9179	8.6066	56 94	1.38220	8.9179	8.6066
24.2	1.30762	8.9179	8.6066	24.2	1.30762	8.9179	8.6066	24.2	1.30762	8.9179	8.6066	24.2	1.30762	8.9179	8.6066
33.6	9.9088	8.9179	8.6066	33.6	9.9088	8.9179	8.6066	33.6	9.9088	8.9179	8.6066	33.6	9.9088	8.9179	8.6066
56 16.80	9.9996	8.9179	8.6066	56 16.80	9.9996	8.9179	8.6066	56 16.80	9.9996	8.9179	8.6066	56 16.80	9.9996	8.9179	8.6066
+20.31	57	8.9179	8.6066	+20.31	57	8.9179	8.6066	+20.31	57	8.9179	8.6066	+20.31	57	8.9179	8.6066
56 37.11	8 3362	8.9179	8.6066	56 37.11	8 3362	8.9179	8.6066	56 37.11	8 3362	8.9179	8.6066	56 37.11	8 3362	8.9179	8.6066
57.26	11.24	8.9179	8.6066	57.26	11.24	8.9179	8.6066	57.26	11.24	8.9179	8.6066	57.26	11.24	8.9179	8.6066
-17 46.04	8 15.87	8.9179	8.6066	-17 46.04	8 15.87	8.9179	8.6066	-17 46.04	8 15.87	8.9179	8.6066	-17 46.04	8 15.87	8.9179	8.6066
-	15	8.9179	8.6066	-	15	8.9179	8.6066	-	15	8.9179	8.6066	-	15	8.9179	8.6066
-	18	8.9179	8.6066	-	18	8.9179	8.6066	-	18	8.9179	8.6066	-	18	8.9179	8.6066
+ 86.0	-	8.9179	8.6066	+ 86.0	-	8.9179	8.6066	+ 86.0	-	8.9179	8.6066	+ 86.0	-	8.9179	8.6066
+ 15	9 1.67	8.9179	8.6066	+ 15	9 1.67	8.9179	8.6066	+ 15	9 1.67	8.9179	8.6066	+ 15	9 1.67	8.9179	8.6066
-17 37.62	8 8.7	8.9179	8.6066	-17 37.62	8 8.7	8.9179	8.6066	-17 37.62	8 8.7	8.9179	8.6066	-17 37.62	8 8.7	8.9179	8.6066
51 8 25.20		8.9179	8.6066	51 8 25.20		8.9179	8.6066	51 8 25.20		8.9179	8.6066	51 8 25.20		8.9179	8.6066



9.8402 0.9614 0.9798 1.2455	July 22 255 52	9.9866	July 22 255 52	9.9866	July 22 256 12	9.9873	July 22 256 58	9.9887
2.545 -1742	17 3 12 +1.330	8.9523 9.3877	2 447 394	8.9251 9.3877	4 48 524	8.9442 9.3776	7 128 352	8.9397 9.3532
0 341 0 378 423	404 488 472 500 545	0.1238 8.3400	9.3 9.3	0.1572 8.3128	9.0 9.0	0.1332 8.3218	50 50	0.1370 8.2929
+27.64 1142 0 3807 0 +36.70 +2 -11.77 +44.28	2359 4715 1482 11.69 43 23 26.68 -237 3 2431	8.4357 9.0346 +9.20 -2.00 -2.60 +1.906 +2.366 9.9866	2 431 1403 -36.79 +2 +2 11.84 -3 +44.19	8.4186 9.0175 +994 -188 -2.50 +1.832 +2.388 9.9866	3 735 3450 -4946 +2 +2 11.85 -4 +4320	8.4204 9.0301 +941 -183 -2.51 +1.886 +2.393 9.9873	5 1823 0.774 +41.17 +2 +2 11.86 -7 +40.77	8.3931 9.0286 +949 -180 -2.36 +1.880 +2.413 9.9887
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17	7	38	+1.266	-1.806	8.9658	7	22.1	13.9	9.0568	17	7	34	+1.266	-1.806	8.9658	7	22.1	13.9	9.0568	17	7	34	+1.397	-1.675	8.9329	7	22.1	13.9	9.0357	17	10	28	+1.256	-1.816	8.9669	7	22.1	13.9	9.0578										
+54	12	-14			9.3532	7	22.1	13.9	9.0568	+54	12	-14			9.3532	7	22.1	13.9	9.0568	+54	12	-14			9.3532	7	22.1	13.9	9.0357	+54	17	-14			9.3532	7	22.1	13.9	9.0578										
6	9.3	6			9.0568	6	9.3	6		6	9.3	6			9.0568	6	9.3	6		6	9.3	6			9.0568	6	9.3	6			9.0568	6	9.3	6			9.0568	6	9.3	6			9.0568						
90					9.0568	90				90					9.0568	90				90					9.0568	90					9.0568	90					9.0568	90					9.0568						
6	9.65	5			9.0568	6	9.65	5		6	9.65	5			9.0568	6	9.65	5		6	9.65	5			9.0568	6	9.65	5			9.0568	6	9.65	5			9.0568	6	9.65	5			9.0568						
-23.47	+2	11.69			9.0568	-23.47	+2	11.69		-23.47	+2	11.69			9.0568	-23.47	+2	11.69		-23.47	+2	11.69			9.0568	-23.47	+2	11.69			9.0568	-23.47	+2	11.69			9.0568	-23.47	+2	11.69			9.0568						
+2	11.86				9.0568	+2	11.86			+2	11.86				9.0568	+2	11.86			+2	11.86				9.0568	+2	11.86				9.0568	+2	11.86				9.0568	+2	11.86			9.0568	+2	11.86			9.0568		
-11.39					9.0568	-11.39				-11.39					9.0568	-11.39				-11.39					9.0568	-11.39					9.0568	-11.39					9.0568	-11.39					9.0568	-11.39					9.0568
+40.77					9.0568	+40.77				+40.77					9.0568	+40.77				+40.77					9.0568	+40.77					9.0568	+40.77					9.0568	+40.77					9.0568	+40.77					9.0568
11.13					9.0568	11.13				11.13					9.0568	11.13				11.13					9.0568	11.13					9.0568	11.13					9.0568	11.13					9.0568	11.13					9.0568
53	368	6.71	332		9.0568	53	368	6.71	332	53	368	6.71	332		9.0568	53	368	6.71	332	53	368	6.71	332		9.0568	53	368	6.71	332		9.0568	53	368	6.71	332		9.0568	53	368	6.71	332		9.0568	53	368	6.71	332		9.0568
53	4440				9.0568	53	4440			53	4440				9.0568	53	4440			53	4440				9.0568	53	4440				9.0568	53	4440				9.0568	53	4440				9.0568	53	4440				9.0568
-40.57					9.0568	-40.57				-40.57					9.0568	-40.57				-40.57					9.0568	-40.57					9.0568	-40.57					9.0568	-40.57					9.0568	-40.57					9.0568
53	3.83	12	776		9.0568	53	3.83	12	776	53	3.83	12	776		9.0568	53	3.83	12	776	53	3.83	12	776		9.0568	53	3.83	12	776		9.0568	53	3.83	12	776		9.0568	53	3.83	12	776		9.0568	53	3.83	12	776		9.0568
54	29	26.57			9.0568	54	29	26.57		54	29	26.57			9.0568	54	29	26.57		54	29	26.57			9.0568	54	29	26.57			9.0568	54	29	26.57			9.0568	54	29	26.57			9.0568	54	29	26.57			9.0568
-17	4720	11	4894		9.0568	-17	4720	11	4894	-17	4720	11	4894		9.0568	-17	4720	11	4894	-17	4720	11	4894		9.0568	-17	4720	11	4894		9.0568	-17	4720	11	4894		9.0568	-17	4720	11	4894		9.0568	-17	4720	11	4894		9.0568
-20.64					9.0568	-20.64				-20.64					9.0568	-20.64				-20.64					9.0568	-20.64					9.0568	-20.64					9.0568	-20.64					9.0568	-20.64					9.0568
32.52					9.0568	32.52				32.52					9.0568	32.52				32.52					9.0568	32.52					9.0568	32.52					9.0568	32.52					9.0568	32.52					9.0568
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+1.20					9.0568	+1.20				+1.20					9.0568	+1.20				+1.20					9.0568	+1.20					9.0568	+1.20					9.0568	+1.20					9.0568	+1.20					9.0568
-17	36.52	12	12.3		9.0568	-17	36.52	12	12.3	-17	36.52	12	12.3		9.0568	-17	36.52	12	12.3	-17	36.52	12	12.3		9.0568	-17	36.52	12	12.3		9.0568	-17	36.52	12	12.3		9.0568	-17	36.52	12	12.3		9.0568	-17	36.52	12	12.3		9.0568
54	11	5732			9.0568	54	11	5732		54	11	5732			9.0568	54	11	5732		54	11	5732			9.0568	54	11	5732			9.0568	54	11	5732			9.0568	54	11	5732			9.0568	54	11	5732			9.0568
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17	32	35	+1.359	-1.713	8.9349	17	39	47	+1.387	17	42	19	+1.375	-1.697	8.9287	17	42	19	+1.375	17	42	19	+1.375	-1.697	8.9287	17	42	19	+1.375	-1.697	8.9287	17	42	19	+1.375	-1.697	8.9287	17	42	19	+1.375	-1.697	8.9287	17	42	19	+1.375	-1.697	8.9287
+52	14	-15			9.0368	+52	14	-15		+52	14	-15			9.0368	+52	14	-15		+52	14	-15			9.0368	+52	14	-15			9.0368	+52	14	-15			9.0368	+52	14	-15			9.0368	+52	14	-15			9.0368
31	577				9.0368	31	577			31	577				9.0368	31	577			31	577				9.0368	31	577				9.0368	31	577				9.0368	31	577				9.0368	31	577				9.0368
29	547	80	3.31		9.0368	29	547	80	3.31	29	547	80	3.31		9.0368	29	547	80	3.31	29	547	80	3.31		9.0368	29	547	80	3.31		9.0368	29	547	80	3.31		9.0368	29	547	80	3.31		9.0368	29	547	80	3.31		9.0368
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27 40.03 37 33.37  
54 55 8.32 -18.09  
-17 46.50 37 14.28  
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21.0 1.51 747  
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54 37 21.82

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818				817				56			
July 22 265.57 9.9989				July 21 266.39 9.9993				July 21 268.7 9.9998			
17 43 30 +1.268				17 46 30 +1.484				17 52 17 +1.372			
+53.32 -16				+49.57 -14				+51.31 -14			
43 55.5				45 50.3				51 44.5			
324				590				322			
42 6.5 41 58.4				43 51.0 44 18.6				49 58.5 50 9.3			
13.6 58.5				58.0 22.0				44.5 13.4			
19.0 a-1 2.0				35.0 38.3				49.0 15.8			
6.0				0.0				19.3			
84 9.8				94 81.3				84 32.7			
42 2.24				43 55.3 44 25.0				49 13.20			
381 27.76				166.0 125.1				79.5			
42 13.70 41 34.98				+29.69 +2 11.33				+31.90 +2 11.32			
+0.46 +2 11.67				+1.021				+1.027			
-38.22 + 43 -0.58				+1.021				+1.027			
+2 11.80 - .27				+2 11.40 - .22				+2 11.40 - .23			
-11.41				-1336				-1253			
+12.87				+10.71				+6.03			
43 46.28				46 36.42				52 27.80			
-2.71				-2.76				-2.80			
43 43.57				46 33.66				52 24.50			
9.9989				9.9993				9.9998			
9.9054				9.8839				9.8935			
8.8490				8.7667				8.5167			
9.9043				9.8832				9.8933			
+10.25				+7.42				+7.22			
9.77405				9.80852				9.79399			
33 378 1.58 22.9				49.1 1.472 6.1				35 248 1.503 7.9			
53.5 1.48 41.4				12 1.405 9.3				59.0 1.425 5.8			
9.08				11.33				63.8			
33 45.40				56.65				35 31.90			
-30.49 53				+25.64 49				+26.64 51			
33 14.91 31 56.49				8.7544 8				35 35.55 26 38.1			
53 49 33.44				50.14 26.66				51 47.6 43.07 48.1			
-17 47.20 31 37.22				-17 46.50 56 27.66				-17 46.50 29 46.53			
- .38				- .24				- .27			
- .53				- .41				- .07			
+ 10.97				+ 7.47				+ 9.08			
+ .19				+ .13				+ .16			
-17 36.95				-17 39.55				-17 37.60			
53 31 46.24				49 56 39.56				51 29 56.57			
July 21 269.9 9.9999				July 22				July 22			
17 56 30 +1.365				-16				-16			
+57.55 -14				8.9300				8.9418			
55 53.2				8.1713				8.0317			
54 30 54 16.2				9.0339				9.0413			
89 19.2				53 48.8 54 16.0				54 48.3 55 12.8			
131 22.7				53.2 19.2				54.8 16.4			
9.0				0.1351				0.2			
250 114.6				7.1013				27.0			
54 833 54 23.96				7.2052				7.0732			
+14.59 +2 11.32				9.0338				9.0413			
+ .33				53 52.00 54 11.30				54 54.43 55 19.90			
+2 11.39 - .23				+31.60 +2 11.67				+25.47 +2 11.67			
-12.29				+1.921				+ .42			
+2.79				-0.12				- .26			
56 34.31				+2.833				+2.828			
-2.83				-12.29				-11.87			
56 31.48				+2.79				+2.07			
9.9999				9.9993				9.9998			
9.8961				9.8961				9.9005			
8.1713				8.1713				8.0317			
9.8960				9.8960				9.9005			
+8.99				+7.71				+7.952			
9 168 1.16 40.6				9 168 1.49 9.69				24 154 1.05 50.0			
32.8 1.08 20.1				16.8 1.41 7.64				30.8 0.96 56.0			
49.1				17.6				46.2			
9 24.58				8.50				24 23.10			
+12.08 51				+26.16 51				24 23.40			
9 36.63 55 34.21				9 34.96 55 34.90				24 32.34 40 39.35			
52 13 11.72				52 13 13.39				52 58 16.01			
-17 46.50				-17 47.20				-17 46.50			
- .06				- .26				- .03			
- .62				- .57				- .62			
+ 9.50				+ 9.35				+ 10.31			
+ .17				+ .14				+ .18			
-17 37.51				-17 38.49				-17 36.66			
51 55 25.22				51 55 26.19				52 40 29.51			



817										818									
July 21					July 22					July 21					July 22				
269 36	0.0000				269 54	0.0000				269 36	0.0000				269 54	0.0000			
17 58 6	+1.405	-1.667			17 59 30	+1.393	-1.679			17 58 6	+1.405	-1.667			17 59 30	+1.393	-1.679		
+51 14	-14				+51 14	-14				+51 14	-14				+51 14	-14			
57 375	8.9197				57 375	8.9228				57 375	8.9197				57 375	8.9228			
144	7.8439				144	7.2419				144	7.8439				144	7.2419			
55 412	9.0275				55 412	9.0294				55 412	9.0275				55 412	9.0294			
468					468					468					468				
512					512					512					512				
92	0.1477				92	0.1440				92	0.1477				92	0.1440			
	6.7636					6.1647					6.7636					6.1647			
	6.8714					6.2713					6.8714					6.2713			
	9.0275					9.0294					9.0275					9.0294			
55 4640	56 1152				55 4640	56 1152				55 4640	56 1152				55 4640	56 1152			
+2512	+2 11.32	+9.67			+2512	+2 11.32	+9.59			+2512	+2 11.32	+9.67			+2512	+2 11.32	+9.59		
		-0.05					-0.02					-0.05					-0.02		
+2 11.39	-22	+18.95			+2 11.39	-23	+19.02			+2 11.39	-22	+18.95			+2 11.39	-23	+19.02		
	58 2291	+28.50				59 3779	+28.58				58 2291	+28.50				59 3779	+28.58		
-12.64	-2.85				-12.56	-2.86				-12.64	-2.85				-12.56	-2.86			
+1.44	58 20.06	0.0000			+0.45	59 34.93	6.0000			+1.44	58 20.06	0.0000			+0.45	59 34.93	6.0000		
	9.8921					9.8933					9.8921					9.8933			
	7.8439					7.2419					7.8439					7.2419			
	9.8921					9.8933					9.8921					9.8933			
+8.37	9.79668	+78.00			+8.76	9.79463	+78.22			+8.37	9.79668	+78.00			+8.76	9.79463	+78.22		
48 210	1.40002	2.714			48 210	1.39323	2.702			48 210	1.40002	2.714			48 210	1.39323	2.702		
355	1.32450	+10.514			355	1.31636	+10.524			355	1.32450	+10.514			355	1.31636	+10.524		
565	9.1461	6.66			565	8.5441	16			565	9.1461	6.66			565	8.5441	16		
48 2825	0.0000	48 33.30			48 2825	0.0000	48 33.30			48 2825	0.0000	48 33.30			48 2825	0.0000	48 33.30		
+21.11	51	+15.71			+20.72	51	+15.71			+21.11	51	+15.71			+20.72	51	+15.71		
48 4936	16 20.86	7.7360			48 4936	16 20.86	7.7360			48 4936	16 20.86	7.7360			48 4936	16 20.86	7.7360		
51 33 58.99	-18.95				51 33 58.99	-18.99				51 33 58.99	-18.95				51 33 58.99	-18.99			
-17 46.50	16 1.91	-10			-17 46.50	27 17.72	-0.02			-17 46.50	16 1.91	-10			-17 46.50	27 17.72	-0.02		
		+9.20					+9.20					+9.20					+9.20		
		+9.75					+9.75					+9.75					+9.75		
		+1.10					+1.10					+1.10					+1.10		
		+18.95					+18.95					+18.95					+18.95		
-17 38.13	16 3.4				-17 38.13	16 2.7				-17 38.13	16 3.4				-17 38.13	16 2.7			
51 16 12.49					51 16 12.49					51 16 12.49					51 16 12.49				
July 21					July 22					July 21					July 22				
18 2 26	+1.275	-1.797			18 2 26	+1.365	-1.707			18 2 26	+1.275	-1.797			18 2 26	+1.365	-1.707		
+58 21	-14				+58 21	-14				+58 21	-14				+58 21	-14			
2 1.1		8.9523			2 1.33		8.9300			2 1.1		8.9523			2 1.33		8.9300		
210		8.0658			210		8.1072			210		8.0658			210		8.1072		
59 500	59 54.9	9.0480			59 500	59 54.9	9.0337			59 500	59 54.9	9.0480			59 500	59 54.9	9.0337		
533	58.5				533	58.5				533	58.5				533	58.5			
56.6	20				56.6	20				56.6	20				56.6	20			
82	5.3	0.1055			82	5.3	0.1351			82	5.3	0.1055			82	5.3	0.1351		
	9.0	7.0381				9.0	7.0372				9.0	7.0381				9.0	7.0372		
	+27.64	7.1138				+27.64	7.1411				+27.64	7.1138				+27.64	7.1411		
59 15.99	30.95	9.0480			59 15.99	30.95	9.0339			59 15.99	30.95	9.0480			59 15.99	30.95	9.0339		
59 53.00	100				59 53.00	100				59 53.00	100				59 53.00	100			
+36.24	+2 11.32	+8.77			+36.24	+2 11.32	+9.39			+36.24	+2 11.32	+8.77			+36.24	+2 11.32	+9.39		
		+0.10					+0.10					+0.10					+0.10		
+2 11.41	-23	+0.12			+2 11.39	-23	+0.13			+2 11.41	-23	+0.12			+2 11.39	-23	+0.13		
	0.03	+19.85				0.03	+19.21				0.03	+19.85				0.03	+19.21		
-11.46	-2.88	+28.84			-12.28	-2.88	+28.83			-11.46	-2.88	+28.84			-12.28	-2.88	+28.83		
-1.98	2 38.07	0.0000			-2.16	2 32.01	0.0000			-1.98	2 38.07	0.0000			-2.16	2 32.01	0.0000		
	9.9043					9.8961					9.9043					9.8961			
	8.0658					8.1072					8.0658					8.1072			
	9.9043					9.8961					9.9043					9.8961			
+10.44	9.77592	+8.022			+9.12	9.78999	+7.872			+10.44	9.77592	+8.022			+9.12	9.78999	+7.872		
43 70	1.55719	2.590			43 70	1.55719	2.675			43 70	1.55719	2.590			43 70	1.55719	2.675		
211	1.46291	+10.612			211	1.46291	+10.547			211	1.46291	+10.612			211	1.46291	+10.547		
281	9.3680	2.86			281	9.4094	1.72			281	9.3680	2.86			281	9.4094	1.72		
43 14.05	0.0000	43 14.30			43 14.05	0.0000	43 14.30			43 14.05	0.0000	43 14.30			43 14.05	0.0000	43 14.30		
+29.03	53	+29.11			+29.03	53	+29.11			+29.03	53	+29.11			+29.03	53	+29.11		
43 43.08	21 29.21	7.9701			43 43.08	21 29.21	8.0033			43 43.08	21 29.21	7.9701			43 43.08	21 29.21	8.0033		
53 39 5.27	-19.23				53 39 5.27	-19.22				53 39 5.27	-19.23				53 39 5.27	-19.22			
-17 46.50	21 1.018	+16			-17 46.50	21 1.01	+18			-17 46.50	21 1.018	+16			-17 46.50	21 1.01	+18		
		+9.20					+9.20					+9.20					+9.20		
		+9.84					+9.78					+9.84					+9.78		
		-17					-18					-17					-18		
		+10.92					+10.92					+10.92					+10.92		
		+19.03					+19.98					+19.03					+19.98		
-17 36.06	21 8.2				-17 36.06	21 8.2				-17 36.06	21 8.2				-17 36.06	21 8.2			
53 21 18.77					53 21 18.77					53 21 18.77					53 21 18.77				



[illegible]



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July 21	272 3	9.9997	July 21	272 3	9.9997
18 7 53	+1.394	-1.678	18 7 53	+1.394	-1.678
+51 58	-14		+51 58	-14	
7 255		8.9230	7 255		8.9230
274		8.5535	274		8.5535
5 174	5 263	8.0296	5 174	5 263	8.0296
250	397	+	250	397	+
372	333		372	333	
	360	0.1443		360	0.1443
1.6	392	7.4765	1.6	392	7.4765
	+26.49	7.5831		+26.49	7.5831
679	1644	9.0293	679	1644	9.0293
5 2203	5 3288		5 2203	5 3288	
+36.74	+59.37	+9.59	+36.74	+59.37	+9.59
	11.31	+0.28		11.31	+0.28
	33			33	
+2 11.38	-23	+0.36	+2 11.38	-23	+0.36
	.03	+1.901		.03	+1.901
-12.55	8 10.75	+2.924	-12.55	8 10.75	+2.924
-6.30	8 -2.92		-6.30	8 -2.92	
	8 2.83	9.9997		8 2.83	9.9997
		9.8934			9.8934
		8.5535			8.5535
		9.8931			9.8931
+8.84	9.79447	+7.818	+8.84	9.79447	+7.818
35 175	1.56 51.4	2.701	35 175	1.56 51.4	2.701
31.3	1.48 741	+1.0519	31.3	1.48 741	+1.0519
48.4		9.8557	48.4		9.8557
35 24.35	35 32.00	9.9997	35 24.35	35 32.00	9.9997
+30.72	51	0.0220	+30.72	51	0.0220
35 55.07	29 15.62	8.4469	35 55.07	29 15.62	8.4469
51.46	53.28	51.46	51.46	53.28	51.46
-17 46.50	28 56.68	+4.9	-17 46.50	28 56.68	+4.9
	36	+9.19		36	+9.19
	.06	+9.76		.06	+9.76
+9.10		-50	+9.10		-50
	7.55.28	+18.94		7.55.28	+18.94
-17 37.66	28.50.4		-17 37.66	28.50.4	
51 29 6.78			51 29 6.78		

July 21	272 50	9.9995	July 21	272 50	9.9995
18 11 6	+1.332	-1.440	18 11 6	+1.332	-1.440
+52 80	-14		+52 80	-14	
10 393		8.9389	10 393		8.9389
295		8.6940	295		8.6940
8 32.1	9 36	9.0395	8 32.1	9 36	9.0395
36.5	46		36.5	46	
42.1	102		42.1	102	
	136	0.1245		136	0.1245
9.3	172	7.6329	9.3	172	7.6329
		7.7335			7.7335
		9.0392			9.0392
8 1107	512		8 1107	512	
36.90	1024		36.90	1024	
+33.34	+11.31	+9.16	+33.34	+11.31	+9.16
	34	+0.39		34	+0.39
+2 11.40	-23	+0.050	+2 11.40	-23	+0.050
	.02	+1.944		.02	+1.944
-11.99	11 2.64	+2.949	-11.99	11 2.64	+2.949
-8.82	11 -2.95		-8.82	11 -2.95	
	11 18.69	9.9995		11 18.69	9.9995
		8.8995			8.8995
		8.6940			8.6940
		9.8990			9.8990
+9.34	9.78245	+7.925	+9.34	9.78245	+7.925
34 360	1.52297	2.641	34 360	1.52297	2.641
500	1.43522	+1.0566	500	1.43522	+1.0566
860		9.9962	860		9.9962
34 43.00	34 51.95	9.9995	34 43.00	34 51.95	9.9995
+27.24	52	0.0239	+27.24	52	0.0239
35 10.24	30 0.95	8.5935	35 10.24	30 0.95	8.5935
52.44	38.11		52.44	38.11	
-17 46.50	29 41.98	+6.8	-17 46.50	29 41.98	+6.8
	30	+9.19		30	+9.19
	66	+9.80		66	+9.80
+10.12		-70	+10.12		-70
	11 8.70	+18.97		11 8.70	+18.97
-17 37.16	29 33.2		-17 37.16	29 33.2	
52 29 51.61			52 29 51.61		

July 21	272 7	9.9997	July 21	272 7	9.9997
18 8 12	+1.196	-1.876	18 8 12	+1.196	-1.876
+54 81	-14		+54 81	-14	
7 487		8.9711	7 487		8.9711
312		8.5674	312		8.5674
6 260	6 77	9.0603	6 260	6 77	9.0603
391	115		391	115	
371	160		371	160	
	185	0.0777		185	0.0777
72	2.17	7.5385	72	2.17	7.5385
		7.6277			7.6277
		9.0600			9.0600
923	744		923	744	
30.73	14.88		30.73	14.88	
-15.85	+2 11.31	+8.23	-15.85	+2 11.31	+8.23
	36	+0.32		36	+0.32
+2 11.40	-24	+0.39	+2 11.40	-24	+0.39
	.03	+2.040		.03	+2.040
-10.77	8 26.28	+2.934	-10.77	8 26.28	+2.934
-6.48	8 -2.93		-6.48	8 -2.93	
	8 28.38	9.9997		8 28.38	9.9997
		9.9109			9.9109
		8.5674			8.5674
		9.9106			9.9106
+11.84	9.76378	+8.140	+11.84	9.76378	+8.140
33 84	1.20 003	2.517	33 84	1.20 003	2.517
32.0	1.09 161	+1.0657	32.0	1.09 161	+1.0657
304		9.8696	304		9.8696
33 15.20	33 15.20	9.9997	33 15.20	33 15.20	9.9997
-12.85	54	0.0276	-12.85	54	0.0276
33 2.85	32 10.88	8.4783	33 2.85	32 10.88	8.4783
54.49	45.50		54.49	45.50	
-17 46.50	31 51.83	+51	-17 46.50	31 51.83	+51
	.06	+9.19		.06	+9.19
	.45	+9.88		.45	+9.88
+12.18		-53	+12.18		-53
	8 12.58	+19.05		8 12.58	+19.05
-17 34.62	31.45.4		-17 34.62	31.45.4	
54.31	59.00		54.31	59.00	

July 21	273 9	9.9993	July 21	273 9	9.9993
18 12 23	+1.356	-1.716	18 12 23	+1.356	-1.716
+52 7	-14		+52 7	-14	
11 552		8.9329	11 552		8.9329
67		8.7400	67		8.7400
9 465	10 172	9.0357	9 465	10 172	9.0357
496	30.3		496	30.3	
54.7	336		54.7	336	
	270	0.1323		270	0.1323
80	305	7.6729	80	305	7.6729
		7.7787			7.7787
		9.0350			9.0350
9 1508	1856		9 1508	1856	
5027	3572		5027	3572	
+33.45	+2 11.31	+9.33	+33.45	+2 11.31	+9.33
	33	+0.43		33	+0.43
+2 11.39	-23	+0.055	+2 11.39	-23	+0.055
	.02	+1.926		.02	+1.926
-12.23	12 35.11	+2.957	-12.23	12 35.11	+2.957
-9.81	12 -2.96		-9.81	12 -2.96	
	12 32.15	9.9993		12 32.15	9.9993
		9.8972			9.8972
		8.7400			8.7400
		9.8965			9.8965
+9.26	9.78521	+7.880	+9.26	9.78521	+7.880
57 133	1.52440	2.664	57 133	1.52440	2.664
2570	1.44041	+1.0544	2570	1.44041	+1.0544
403		0.0422	403		0.0422
57 35.15	57 35.15	9.9993	57 35.15	57 35.15	9.9993
+27.57	52	0.0230	+27.57	52	0.0230
57 47.72	7 23.39	8.6372	57 47.72	7 23.39	8.6372
52.25	0.63		52.25	0.63	
-17 46.50	7 44.4	+76	-17 46.50	7 44.4	+76
	30	+9.18		30	+9.18
	32	+9.78		32	+9.78
+4.71		-77	+4.71		-77
	12 19.92	+18.95		12 19.92	+18.95
-17 37.24	6 54.6		-17 37.24	6 54.6	
52 7 14.13			52 7 14.13		



[illegible]







817				818				July 21				July 22			
July 21				July 22				July 21				July 22			
18	19	4	274.50	18	19	4	274.50	18	19	31	274.57	18	19	31	274.57
			+1.326				+1.326				+1.460				+1.460
			-1.746				-1.746				-1.612				-1.612
			-15				-15				-15				-15
			18 374				18 374				18 374				18 374
			389				389				389				389
16	35	16	330	16	35	16	330	16	35	16	330	16	35	16	330
			383				383				383				383
			419				419				419				419
			449				449				449				449
			483				483				483				483
			0.1225				0.1225				0.1644				0.1644
			78671				78671				78671				78671
			89256				89256				89256				89256
			90411				90411				90411				90411
			20411				20411				20411				20411
			2084				2084				2084				2084
			4168				4168				4168				4168
			8.88				8.88				8.88				8.88
			11.31				11.31				11.31				11.31
			2.24				2.24				2.24				2.24
			+2 1137				+2 1137				+2 1135				+2 1135
			-11.93				-11.93				-13.14				-13.14
			-15.12				-15.12				-15.48				-15.48
			19 2025				19 2025				19 2025				19 2025
			-3.01				-3.01				-3.01				-3.01
			19 2774				19 2774				19 2774				19 2774
			1724				1724				1724				1724
			9.9984				9.9984				9.9984				9.9984
			9.9024				9.9024				9.9024				9.9024
			8.9256				8.9256				8.9256				8.9256
			9.8988				9.8988				9.8988				9.8988
			+7.921				+7.921				+7.47				+7.47
			+9.49				+9.49				+9.49				+9.49
			9.78296				9.78296				9.78296				9.78296
			1.45564				1.45564				1.45564				1.45564
			2.631				2.631				2.631				2.631
			4.91				4.91				4.91				4.91
			830				830				830				830
			41.50				41.50				41.50				41.50
			+2342				+2342				+2342				+2342
			52				52				52				52
			492				492				492				492
			40 656				40 656				40 656				40 656
			-18.92				-18.92				-18.92				-18.92
			39 47.64				39 47.64				39 47.64				39 47.64
			+1.16				+1.16				+1.16				+1.16
			+9.16				+9.16				+9.16				+9.16
			+9.79				+9.79				+9.79				+9.79
			-1.19				-1.19				-1.19				-1.19
			+18.92				+18.92				+18.86				+18.86
			19 5.31				19 5.31				19 5.31				19 5.31
			39 32.5				39 32.5				39 32.5				39 32.5
			52 39 56.93				52 39 56.93				52 39 56.93				52 39 56.93
July 22				July 22				July 22				July 22			
-18				-17				-17				-17			
20	35	20	505	20	35	20	505	20	35	20	505	20	35	20	505
			543				543				543				543
			576				576				576				576
			1.1				1.1				1.1				1.1
			48				48				48				48
			1246				1246				1246				1246
			2858				2858				2858				2858
			4153				4153				4153				4153
			+1613				+1613				+1613				+1613
			45				45				45				45
			+2 11.76				+2 11.76				+2 11.76				+2 11.76
			-10.98				-10.98				-10.98				-10.98
			-18.09				-18.09				-18.09				-18.09
			23 9.42				23 9.42				23 9.42				23 9.42
			-3.04				-3.04				-3.04				-3.04
			23 6.38				23 6.38				23 6.38				23 6.38
			+11.96				+11.96				+11.96				+11.96
			9.76271				9.76271				9.76271				9.76271
			45.120763				45.120763				45.120763				45.120763
			198109814				198109814				198109814				198109814
			243				243				243				243
			12.15				12.15				12.15				12.15
			+12.54				+12.54				+12.54				+12.54
			27 2969				27 2969				27 2969				27 2969
			37 4842				37 4842				37 4842				37 4842
			5455				5455				5455				5455
			23.66				23.66				23.66				23.66
			-17 47.20				-17 47.20				-17 47.20				-17 47.20
			37 29.23				37 29.23				37 29.23				37 29.23
			07				07				07				07
			31				31				31				31
			+12.13				+12.13				+12.13				+12.13
			+21 22.55.60				+21 22.55.60				+21 22.55.60				+21 22.55.60
			-17 35.24				-17 35.24				-17 35.24				-17 35.24
			37 11.1				37 11.1				37 11.1				37 11.1
			54 37 36.46				54 37 36.46				54 37 36.46				54 37 36.46



9.8379 0.9634 0.9686 0.2493 July 21	276 12	9.9974 2193 -1647 8.9171 9.0334 9.0260	July 21	276 27	9.9972 2803 -1895 8.9781 9.0505 9.0649	July 21	276 39	9.9971 2638 -1824 8.9616 9.0637 9.0540	July 21	276 56	9.9968 2038 -1584 8.9016 9.0818 9.0167
18 24 31 +51 6 24 26 4.9	+1425 -15	18 35 38 +54 58 25 9.7 35.2	+1179 -15	18 36 38 +53 56 25 58 55.8	+1248 -15	18 27 27 +50 5 26 570 4.8	+1485 -15	18 27 27 +50 5 26 570 4.8	+1485 -15	18 27 27 +50 5 26 570 4.8	
22 397 22 287 445 499	22 287 315 350 388 415	23 352 23 292 323 360 408 436	23 352 23 292 323 360 408 436	24 98 24 195 144 208	24 98 24 195 144 208	25 86 25 260 135 195	25 86 25 260 135 195	25 86 25 260 135 195	25 86 25 260 135 195	25 86 25 260 135 195	
80	0.1538 9.0594 9.0234	90	0.0708 8.0286 8.1154 9.0621	90	0.0962 8.0253 8.1177 9.0511	86	0.1717 9.0834 8.0985 9.0135	86	0.1717 9.0834 8.0985 9.0135	86	0.1717 9.0834 8.0985 9.0135
22 4470 22 320 -970 +2 + 32	22 320 1130 +981 +082	23 318 23 364 +459 +2 + 37	23 318 23 364 +459 +2 + 37	24 450 24 2620 +1120 +2 + 36	24 450 24 2620 +1120 +2 + 36	25 416 25 3228 +1841 +2 + 31	25 416 25 3228 +1841 +2 + 31	25 416 25 3228 +1841 +2 + 31	25 416 25 3228 +1841 +2 + 31	25 416 25 3228 +1841 +2 + 31	
+2 1136 -1282 1935	+2 1136 -1282 1935	+2 1138 -1059 -2016	+2 1138 -1059 -2016	+2 1138 -1125 -2019	+2 1138 -1125 -2019	+2 1135 -1336 -2169	+2 1135 -1336 -2169	+2 1135 -1336 -2169	+2 1135 -1336 -2169	+2 1135 -1336 -2169	
58 479 58 38 298677 291250	58 38 298677 291250	6 406 6 454 0.66161 0.54856	6 406 6 454 0.66161 0.54856	9 351 9 397 1.04922 0.94693	9 351 9 397 1.04922 0.94693	58 328 58 126505 475 120016	58 328 58 126505 475 120016	58 328 58 126505 475 120016	58 328 58 126505 475 120016	58 328 58 126505 475 120016	
58 5535 -5.18 51 58 4717	58 5535 -5.18 51 58 4717	6 4753 +3.54 54 57 09 58 2343	6 4753 +3.54 54 57 09 58 2343	9 3240 +5.85 53 4125 55 3171	9 3240 +5.85 53 4125 55 3171	58 3975 +1585 58 5560 6 1347	58 3975 +1585 58 5560 6 1347	58 3975 +1585 58 5560 6 1347	58 3975 +1585 58 5560 6 1347	58 3975 +1585 58 5560 6 1347	
51 24 118 -17 4650 - 03 - 55 + 870	51 24 118 -17 4650 - 03 - 55 + 870	55 15 5726 -17 4650 58 449 - 01 - 25 + 1271	55 15 5726 -17 4650 58 449 - 01 - 25 + 1271	54 13 710 -17 4650 55 1280 - 03 - 63 + 1157	54 13 710 -17 4650 55 1280 - 03 - 63 + 1157	50 25 5275 -17 4650 5 5465 - 09 - 32 + 770	50 25 5275 -17 4650 5 5465 - 09 - 32 + 770	50 25 5275 -17 4650 5 5465 - 09 - 32 + 770	50 25 5275 -17 4650 5 5465 - 09 - 32 + 770	50 25 5275 -17 4650 5 5465 - 09 - 32 + 770	
+ 15 2430.50 -17 38.23 51 6 1468	+ 15 2430.50 -17 38.23 51 6 1468	+ 18.84 -17 3383 54 58 1076	+ 18.84 -17 3383 54 58 1076	+ 18.94 -17 3539 53 53 2060	+ 18.94 -17 3539 53 53 2060	+ 18.91 -17 3928 50 6 625	+ 18.91 -17 3928 50 6 625	+ 18.91 -17 3928 50 6 625	+ 18.91 -17 3928 50 6 625	+ 18.91 -17 3928 50 6 625	
July 21 279 51	9.9936 2028 -1572 8.9026 9.2332 9.0161	July 21 280 6	9.9932 2739 -1850 8.9717 9.2440 9.0607	July 21 280 13	9.9931 2224 -1642 8.9202 9.2489 9.0279	July 21 280 58	9.9920 2265 -1654 8.9243 9.2793 9.0334				
18 39 7 +50 1 38 376 49 588	+1500 -15 8.9026 9.2332	18 40 8 +54 34 39 434 32.7	+1222 -15 8.9717 9.2440	18 40 37 +51 18 40 8.8 164	+1430 -15 8.9202 9.2489	18 4	18 4337 +1408 -1654 43 83 325 9.0243 9.2793 9.0334				
36 863 37 65 417 470	36 863 37 65 417 470	37 510 37 388 423 42									



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817										64									
July 21 277 49 99960										July 21 277 50 99959									
18 30 59 +1398 -1.674										18 31 7 +1360 -1.712									
+57 88 -15										+50 5 -15									
30 310										36 280									
371										40									
38 383 28 399										34 582 34 370									
348										462									
389 a+1 365										03									
420										47									
72										430									
+2658										467									
1833										496									
1020										34 4330									
3400 28 3654										35 1833									
+2924 +2 1130										34 4330									
+2 1137										+2 1129									
31 1445										+2 1136									
-1259										-1120									
-2439										-2988									
31 1152										38 1514									
42										38 1127									
+898 979288										+1154 976712									
26 20 246598										53 118 125103									
160 138666										358 118295									
180										376									
26 9.00										53 16.80									
+2436 51										+1524 34									
26 3336										53 3404 11 3935									
51 56 1499										54 29 1431									
-17 4650 38 1864										-17 4650 11 2059									
-22										-07									
-17										-46									
+9.21										+189									
+16 305883										+20 380.77									
-17 37.52 37 54.2										-17 3996 10 50.7									
51 38 2849										54 11 2781									
July 28 n=+10										July 21 281 17 99915									
-11										18 44 51 +1314									
41 137 41 317										+53 16 -15									
198										44 250									
245										150									
414										8.9513									
448										9.2915									
87										42 323 42 496									
580										368									
41 1933 41 3820										414									
+18.87 +2 1380										598									
+2 1373										37									
-12.76										1105									
-3420										3683									
43 488										42 5650									
+9.20 979351										+19.67 +2 1129									
30 125 127577										+35									
813 119708										+203									
508										+1941									
30 2540										+3210									
+1574 51										9.9915									
30 4114 34 2845										9.9040									
51 52 121										9.2915									
-17 4796										9.8955									
-10										+1861									
+9.20										+10.47									
+16										9.77677									
-17 38.76										1129380									
51 34 1925										250 119837									
										353									
										48 1765									
										+15.79 53									
										48 33.44 16 3900									
										53 34 1491									
										-17 4650									
										46									
										+10.96									
										+19									
										44 52.82									
										-17 3591									
										53 16 2841									
										45									



820

July 28

18 47 23  
+50 35  
46 535  
339

44 510 45 300  
559 331  
364 364  
295 295  
91 230 230

1678 1320  
44 5583 45 3640  
+3057 +2 1350

+2 1373  
-1332  
-3717

47 4013  
-312  
47 37.01

+760 9.80244  
28 340 1.48530

47 1.41584  
8-20  
28 41.00

+26.05 50  
29 705 36 094

53 53 4130 -2052  
-17 4796 35 40.42

-25  
-48  
+819

+14 4723.69 +2052  
-17 4036 35 3.2

50 35 5334

July 28

18 52 58  
+54 31 -12  
52 258  
297

50 139 50 463  
157 406  
187 520  
216 568  
91 247 0.6

936 2663  
50 1872 50 5336  
+3454 +2 1380

+2 1371  
-1122  
-4131

53 694  
-326  
53 8.77

+11.60 9.76378  
33 382 1.53832

498 1.42990  
860  
33 44.00

+26.91 54  
34 10.91 31 1.08

54 48 3744 -2048  
-17 4796 30 40.60

-31  
-48  
+1217

+22 52 52.55 +3.23  
-17 3636 29 59.3

54 30 4948

817

July 21

18 48 39  
+53 55  
48 3.1  
54.1

46 190 46 357  
243 398  
282 334  
362 362  
89 396

715 1657  
46 2383 46 3274  
+8.91 +2 1128

+2 1134  
-1149  
-3798

48 4408  
-324  
48 40.34

+11.34 9.77009  
7 563 0.94958

10.7 0.84777  
70  
8 3.50

+4.04 53 6  
8 10.54 57 245

54 14 3781 -1859  
-17 4650 56 44.06

-02  
-43  
+1159

+20 4829.35 +18.59  
-17 35.36 56 6.1

53 56 5131

July 21

18 53 27  
+55 8 -16  
53 2.5  
70

51 338 51 338  
358 264  
414 213

94 57.60  
1085  
51 2617 51 3052

+2 1128  
+2 1134  
-1085

53 41.86  
-330  
53 48.56

+12.80 9.75714  
56 328 1.45205

46.8 0.63699  
196  
56 39.80

+4.34 55  
56 35.46 8 3919

55 26 1289 -1819  
-17 4650 8 20.70

-01  
-24  
+283

+53 27.44 +18.49  
-17 33.70 7 38.9

55 8 2639

9.9901

282 11  
+1.277  
-1795  
8.9618  
9.3244

46 190 46 357  
243 398  
282 334  
362 362  
93 396

511 1534  
46 1703 46 3068  
+13.65 +2 1380

+2 1373  
-1149  
-3798

48 44.41  
-8.16  
48 44.25

+11.32 9.77009  
7 516 1.13513

32 1.03302  
1148  
8 57.40

+10.79 53  
8 8.19 57 352

54 14 4016 -2053  
-17 4796 56 42.97

-05  
-39  
+1155

+21 4829.76 +20.55  
-17 3664 56 5.0

53 56 5220

July 28

18 54 1  
+51 20 -16  
53 321  
184

51 498 51 206  
550 242  
06 379

91 31.1  
35.1

57 1654 51 1359  
57 5570 51 3778

+2 1371  
-1085  
-4176

53 41.49  
-321  
53 38.28

+12.60 9.75714  
56 439 1.43696

560 1.32190  
199  
56 49.95

+20.78 55  
56 25.94 8 4402

55 26 1938 -2049  
-17 4796 8 23.53

-19  
-23  
+1279

+53 27.43 +20.49  
-17 35.36 7 41.8

55 8 3142

July 21

282 23

18 49 16  
+51 12  
48 474  
108

47 40 47 150  
72 183  
140 314  
250 250  
87 281

352 1078  
47 840 47 2156  
+13.16 +2 1128

+2 1131  
-1302  
-3861

49 32.87  
-3.24  
49 28.65

+8.64 9.79699  
51 458 1.11226

1065 1.04405  
51 53.25 51  
+11.07 51

52 432 13 617  
5130 44.03 -1858

-17 4650 56 47.59  
-05 12  
+8.81

+15 4916.63 +18.58  
-17 3786 12 9.0

51 12 57.53

July 21

18 54 1  
+51 20 -16  
53 321  
184

52 311 52 359  
384 393  
456 336

80 35.6  
394

53 1151 51 1359  
53 3834 51 3778

+2 1131  
-1302  
-4221

54 17.44  
-3.25  
54 14.19

+8.20 9.79573  
44 150 1.50840

301 1.43193  
451  
44 22.55

+27.03 51  
43 55.52 21 14.53

5188 5283 -1851  
-17 4650 20 56.02

-27  
-62  
+8.93

+54 1.17 +18.51  
-17 38.30 20 13.8

51 21 6.33



[illegible]



817				820				821				822			
July 21	285.2	9.9849	July 28	July 21	285.16	9.9844	July 28	July 21	285.16	9.9844	July 28	July 21	285.16	9.9844	July 28
18 59.52	+1.529	-1.543	-1.2	19 0.48	+1.415	-1.654	-1.2	19 0.48	+1.415	-1.654	-1.2	19 0.48	+1.415	-1.654	-1.2
+50.4	-1.6			+52.4	-1.6			+52.4	-1.6			+52.4	-1.6		
59.216		8.9014		0.199		8.9326		0.199		8.9326		0.199		8.9326	
2.1		9.4139		2.8		9.4205		2.8		9.4205		2.8		9.4205	
57 200	57 516	9.0166	57 214	57 495	57 341	57 466	9.0355	57 341	57 466	9.0355	57 341	57 466	9.0355	57 341	57 466
336	548		266	536	365	503		365	503		365	503		365	503
28.1	580		31.5	558	403	535		403	535		403	535		403	535
	16	0.1844		590		568	0.1508		568	0.1508					
84	47	8.3153	89	2.3	88	24	8.3531	85	24	8.3531	85				
		8.4305					8.4560			8.4560					
		9.0015					9.0199			9.0199					
57 2390	57 5814		57 2650	57 5584	57 2694	57 5352		57 2694	57 5352		57 2694	57 5352		57 2694	57 5352
+84.24	+12.1127	+10.53	+29.34	+2	+16.55	+2	+974	+32.50	+2	+974	+32.50	+2	+974	+32.50	+2
		+1.90					+207			+207					
+2 11.31		+2.51	+2 13.70		+2 11.32		+2.266	+2 13.71		+2.266	+2 13.71		+2.266	+2 13.71	
		+17.82					+1859			+1859					
		+3.276					+3.306			+3.306					
-13.77	0	9.45	-13.77	0	-12.74	1	4.84	-12.74	1	4.84	-12.74	1	4.84	-12.74	1
-46.71	0	-8.28	-46.71	0	-47.43	1	-8.31	-47.43	1	-8.31	-47.43	1	-8.31	-47.43	1
	0	6.17		0			1.53			1.53					
		9.9849					9.9844			9.9844					
		9.8848					9.8971			9.8971					
		9.4139					9.4205			9.4205					
		9.8694					9.8815			9.8815					
+6.83	9.80746	+7.408	+6.92	9.80746	+9.23	9.78869	+7.612	+9.07	9.78869	+7.612	+9.07	9.78869	+7.612	+9.07	9.78869
59 539	1.53453	2.784	59 574	1.46746	59 129	1.21880	2.665	58 548	1.51188	59 129	1.21880	2.665	58 548	1.51188	59 129
10.1	1.46979	+1.0192	11.1	1.40272	372	1.13529	+1.0277	6.5	1.42837	372	1.13529	+1.0277	6.5	1.42837	372
40		0.7161	85		401		0.7227	13		401		0.7227	13		
0	2.00	9.9849	0	4.25	59 20.05		9.9844	59 0.65		59 20.05		9.9844	59 0.65		
+29.50	50	9.0083	+25.28	50	+136652		0.0119	+268152		+136652		0.0119	+268152		
31.50	4	9.2987	0	29.53	59 33.71	5	9.3176	59 2746	5	33.71	5	9.3176	59 2746	5	4207
50.22	16.85		50.22	18.82	52.23	14.64		52.23	20.89	52.23	14.64		52.23	20.89	52.23
-17	46.50	4	-17	47.96	-17	46.50	5	-17	47.96	-17	46.50	5	-17	47.96	5
	31	+3.58		23		0.8	+3.64		28		0.8	+3.64		28	
	70	+8.88		66		60	+8.87		52		60	+8.87		52	
+7.71		+9.48	+7.68				+9.56					+9.56			
		-3.53		50			-3.69					-3.69			
+13	59 52.40	+18.41	+13	59 52.54	+17	37.27	+18.38	+17	37.27	+18.38	+17	37.27	+18.38	+17	37.27
-17	39.67	3	-17	41.04	3	30.7		-17	38.89	4	34.2		-17	38.89	4
50	4	30.35	50	4	30.86			52	5	32.73			52	5	32.73
July 21	285.47	9.9833	July 28	July 21	285.55	9.9830	July 21	285.58	9.9829	July 21	285.58	9.9829	July 21	285.58	9.9829
19 3.51	+1.432	2.315	-1.2	19 3.37	+1.327	2.587	-1.745	19 3.37	+1.327	2.587	-1.745	19 3.37	+1.327	2.587	-1.745
+01.53	-1.6	-1.640		+53.37	-1.6	-1.745		+53.37	-1.6	-1.745		+53.37	-1.6	-1.745	
2 22.1		8.9293		3 10.7		8.9565		3 10.7		8.9565		3 10.7		8.9565	
30.2		9.4346		35.8		9.4381		35.8		9.4381		35.8		9.4381	
0	44.0	9.0334	0	41.3	2	58	9.0507	2	58	9.0507	2	58	9.0507	2	58
490	583		434	51.0	93	268		93	268		93	268		93	268
538	565		544	576	157	503		157	503		157	503		157	503
	597	0.1559		576		334	0.1229		334	0.1229		334	0.1229		334
90	34	8.3639	92	26	92	268	8.3946	88	268	8.3946	88	268	8.3946	88	268
		8.4680					8.4888			8.4888					
		9.0167					9.0337			9.0337					
0	1471		0	1311	2	288		2	288		2	288		2	288
4903	5658		4370	5480	960	1	3013	960	1	3013	960	1	3013	960	1
+7.55	+11.27	+9.86	+10.60	+2	-3748	+2	+914	-3748	+2	+914	-3748	+2	+914	-3748	+2
		+2.12					+2.28			+2.28					
+2 11.32		+2.73	+2 13.71		+2 11.33		+2.87	+2 11.32		+2.87	+2 11.32		+2.87	+2 11.32	
		+18.45					+1.919			+1.919					
		+3.316					+3.348			+3.348					
-1290	3	9.9833	-1290	3	-11.97	3	9.9830	-11.99	3	-11.97	3	9.9830	-11.99	3	9.9830
-4896	3	9.8958	-4896	3	-49.44	3	9.9058	-49.50	3	-49.44	3	9.9058	-49.50	3	9.9058
		9.4346					9.4381			9.4381					
		9.8791					9.8888			9.8888					
+9.38	9.79063	+7.570	+9.37	9.79063	+10.60	9.77319	+7.741	+10.49	9.77319	+7.741	+10.49	9.77319	+7.741	+10.49	9.77319
13	48.057795	2.678	13	18.102531	28	14.0159638	2.573	27	30.0169417	28	14.0159638	2.573	27	30.0169417	2.573
19.1	0.79638	+1.0248	14.20	0.94374	28	14.0159638	+1.0314	27	30.0169417	28	14.0159638	+1.0314	27	30.0169417	2.573
239		0.7368	16.0		429		0.7403	27	37.40	429		0.7403	27	37.40	429
12 11.95		9.9833	12 8.00		28	21.45	9.9830	27	37.40	28	21.45	9.9830	27	37.40	429
+6.26	51	0.0106	+6.78	51	31.43	53	0.0134	26	46.03	31.43	53	0.0134	26	46.03	31.43
12 18.21	52	9.3304	12 16.78	52	27	50.02	9.3439	26	46.03	27	50.02	9.3439	26	46.03	31.43
52.10	30.14		52.10	31.57	53	54	58.33	53	54	58.33	53	54	58.33	53	54
-17	46.50	52	-17	47.96	-17	46.50	37	-17	46.50	-17	46.50	37	-17	46.50	37
	02	+3.76		03		41	+3.79		41		41	+3.79		41	
	31	+8.84		27		48	+8.84		48		48	+8.84		48	
+9.54		+9.53	+9.50				+9.59					+9.59			
		-3.80		78			-3.92					-3.92			
+17	2.51.68	+18.33	+17	2.51.75	+19	3	+18.30	+19	3	+18.30	+19	3	+18.30	+19	3
-17	37.12	51	-17	38.59	-17	35.90		-17	36.01		35.90		-17	36.01	
51	52	43.64	51	52	53	37	11.83	53	38	13.82	53	37	11.83	53	38



817				820				825				828			
July 21				July 28				July 21				July 28			
19	1	14	+1.283	19	1	14	-1.283	19	1	52	+1.389	19	1	52	+1.389
+54	11	-16		+54	11	-16		+54	11	-16		+54	11	-16	
0	488			0	488			0	488			0	488		
59	210	59	17.1	59	210	59	17.1	59	210	59	17.1	59	210	59	17.1
358		146		358		146		358		146		358		146	
293		182		293		182		293		182		293		182	
		322	0.1082			322	0.1082			322	0.1082			322	0.1082
75		354	8.3893	75		354	8.3893	75		354	8.3893	75		354	8.3893
			8.4801				8.4801				8.4801				8.4801
59	761	59	1830	59	761	59	1830	59	761	59	1830	59	761	59	1830
-7.07	+2	11.27	+2.883	-7.07	+2	11.27	+2.883	-7.07	+2	11.27	+2.883	-7.07	+2	11.27	+2.883
+2	11.34		+2.225	+2	11.34		+2.225	+2	11.34		+2.225	+2	11.34		+2.225
			+2.81				+2.81				+2.81				+2.81
			+1952				+1952				+1952				+1952
			+3.341				+3.341				+3.341				+3.341
-11.56	1	2964		-11.56	1	2964		-11.56	1	2964		-11.56	1	2964	
-4770	1	2630	9.9842	-4770	1	2630	9.9842	-4770	1	2630	9.9842	-4770	1	2630	9.9842
			9.9092				9.9092				9.9092				9.9092
			9.4232				9.4232				9.4232				9.4232
			9.8934				9.8934				9.8934				9.8934
+11.80	9.76730	+7824	+11.80	+11.80	9.76730	+7824	+11.80	+11.80	9.76730	+7824	+11.80	+11.80	9.76730	+7824	+11.80
51	570	2.84742	2.537	51	570	2.84742	2.537	51	570	2.84742	2.537	51	570	2.84742	2.537
	11.5	0.74452	+1.0361		11.5	0.74452	+1.0361		11.5	0.74452	+1.0361		11.5	0.74452	+1.0361
	85		0.7254		85		0.7254		85		0.7254		85		0.7254
52	4.25		9.9842	52	4.25		9.9842	52	4.25		9.9842	52	4.25		9.9842
-5.55	54		0.0154	-5.55	54		0.0154	-5.55	54		0.0154	-5.55	54		0.0154
51	58.70	13	1495	51	58.70	13	1495	51	58.70	13	1495	51	58.70	13	1495
5430	4763		-1634	5430	4763		-1634	5430	4763		-1634	5430	4763		-1634
-17	4650	12	5661	-17	4650	12	5661	-17	4650	12	5661	-17	4650	12	5661
			+3.66				+3.66				+3.66				+3.66
			+886				+886				+886				+886
			+9.64				+9.64				+9.64				+9.64
			-382				-382				-382				-382
			+1834				+1834				+1834				+1834
			+1.21				+1.21				+1.21				+1.21
-17	3470	12	8.9	-17	3470	12	8.9	-17	3470	12	8.9	-17	3470	12	8.9
54	13	3.15		54	13	3.15		54	13	3.15		54	13	3.15	
July 28				July 28				July 28				July 28			
3	0.3		-12	3	0.3		-12	3	0.3		-12	3	0.3		-12
1	858	1	306	1	858	1	306	1	858	1	306	1	858	1	306
	436		242		436		242		436		242		436		242
	498		276		498		276		498		276		498		276
			872				872				872				872
87			347	87			347	87			347	87			347
	1392		1383		1392		1383		1392		1383		1392		1383
1	480	2	2766	1	480	2	2766	1	480	2	2766	1	480	2	2766
-15.41	+2	1380	+9.21	-15.41	+2	1380	+9.21	-15.41	+2	1380	+9.21	-15.41	+2	1380	+9.21
			+2.23				+2.23				+2.23				+2.23
+2	13.72		+2.344	+2	13.72		+2.344	+2	13.72		+2.344	+2	13.72		+2.344
			+1780				+1780				+1780				+1780
-11.97	3	4138	+3.278	-11.97	3	4138	+3.278	-11.97	3	4138	+3.278	-11.97	3	4138	+3.278
-4950	3	3810		-4950	3	3810		-4950	3	3810		-4950	3	3810	
+11.00	9.77319			+11.00	9.77319			+11.00	9.77319			+11.00	9.77319		
27	540	1.18750		27	540	1.18750		27	540	1.18750		27	540	1.18750	
	62	1.08879			62	1.08879			62	1.08879			62	1.08879	
02				02				02				02			
28	0000			28	0000			28	0000			28	0000		
1227	53			1227	53			1227	53			1227	53		
27	4783	37	2356	27	4783	37	2356	27	4783	37	2356	27	4783	37	2356
53	55	0.52	-2030	53	55	0.52	-2030	53	55	0.52	-2030	53	55	0.52	-2030
-17	4796	37	3.26	-17	4796	37	3.26	-17	4796	37	3.26	-17	4796	37	3.26
			+3.87				+3.87				+3.87				+3.87
			+862				+862				+862				+862
			+1146				+1146				+1146				+1146
			-365				-365				-365				-365
			+2030				+2030				+2030				+2030
-17	3696	36	13.9	-17	3696	36	13.9	-17	3696	36	13.9	-17	3696	36	13.9
53	37	1256		53	37	1256		53	37	1256		53	37	1256	



820

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July 28	286 52	9.9809	July 28	287 3	9.9802	July 28	287 12	9.9804	July 28	287 42	9.9789
19 7 10	+1.340	-1.732	19 7 56	+1.339	-1.733	19 8 34	+1.247	-1.825	19 10 35	+1.339	-1.738
+53 32	-12		+53 34	-12		+55 0	-12		+53 45	-13	
6 437		8.9555	7 296		8.9560	8 86		8.9789	10 82		8.9589
297		9.4626	318		9.4672	54 579		9.4709	484		9.4829
4 47 5	5.5	9.0500	5 51 5	5.5	9.0504	6 358	6	9.0655	7 536	8	9.0523
535	90		530	560		531		536	58		
13	123		543	597	0.1268	370		350	345		0.1252
	160	0.1271		30	0.0731			386	380		0.0713
92	195	8.4181	91	63	8.4232	86		420	844.98	91	8.4418
		8.5126			8.5176						8.5352
		9.0309			9.0309						9.0312
4 1619	6.23		5 1586	5976		949	1738		1796		
53975	1346		53875	5953		3163	35460		5957	8	3150
+18.49	+2	+9.40	+6.65	+2	+8.64	+3.53	+2	+8.75	+3.463	+2	+8.66
		+2.35			+2.43			+2.53			+2.48
+2 1372	-	+2 362	+2 1371	-	+2 366	+2 1371	-	+2 382	+2 1369	-	+2 382
	.02	+1.768		.03	+1.768		.02	+1.829		.03	+1.768
-1206	-52.20	7 2618	-1206	-52.23	8 1323	-1123	8 4887	+3.339	-1201	10 4819	+3.334
		-3.30			-3.32		-3.31				
		7 2288			8 991		8 458	9.9806	-54.72	10 4486	9.9789
		9.9809			9.9805			9.9134			9.9067
		9.9053			9.9056			9.4709			9.4829
		9.4626			9.4672			9.8935			9.8856
		9.8864			9.8861			+7.825	+10.87	9.97181	+7.844
+10.98	9.97405	+7.698	+11.44	9.97370	+7.693	+12.39	9.975859	+7.825		1.53945	+2.564
32 80	1.26694	-2.577	30 04	0.82282	-2.575	4 0.0	0.54777	2488	18 340	1.43906	+1.0248
188	1.16879	+1.0275	11.3	0.72432	+1.0268	13.2	0.43476	+1.0313	458		0.7851
268		0.7648	11.4		0.7699	12.2		0.7731	198		9.9789
32 13.40		9.9809	30 5.85		9.9805	4 6.10		9.9801	18 39.90		0.0706
+14.75	53	0.0118	+5.30	53	0.0115	+2.72	55	0.0134	+2.748	53	9.3896
32 28.15	32 4322	9.3681	30 11.15	35 0.68	9.3728	4 8.82	1 3.96	9.3843	19 7.88	46 3.88	
53 50 20.20	-20.24		53 52 37.20	-20.23		55 18 39.53	-20.20		54.3 40.97	-20.20	
-17 47.96	32 22.98	+4.08	-17 47.96	35 40.45	+4.13	-17 47.96	0 4.77	+4.16	-17 47.96	44 4.77	+4.28
-	08	+8.58	-	01 34	+8.58	-	01	+8.57	-	45	+8.54
-	29	+11.42	-	00	+11.41	-	53	+11.46	-	48	+11.41
+ 11.15		-3.94	+ 11.25		-3.89	+ 12.70		-3.99	+ 11.45		-4.03
+ .20	7 10.82	+20.24	+ .20	7 57.85	+20.23	+ .23	8 34.14	+20.20	+ .21	10 32.85	+20.20
-17 36.98	31 30.8		-17 36.52	33 47.6		-17 35.57	09 50.5		-17 37.09	44 48.9	
53 32 32.24			53 34 49.24			55 0 51.57			53 45 53.01	49.0	
July 28	289 13	9.9751	July 28	289 23	9.9747	July 28	289 40	9.9739	July 28	289 53	9.9733
19 16 34	+1.542	-1.530	19 17 16	+1.562	-1.510	19 18 23	+1.491	-1.581	19 19 15	+1.469	-1.603
+50 38	-13		+50 6	-13		+51 27	-13		+51 53	-13	
16 33		8.9075	16 445		8.9021	17 533		8.9228	18 460		8.9295
264		9.5174	42		9.5210	249		9.5270	527		9.5316
14 34 14	314	9.0202	15 12 15	130	9.0170	16 08 16	300	9.0294	16 487	17 431	9.0336
80	350		57	164		63	334		516	155	
144	380		10.3	197		135	365		550	188	
	412	0.1881		327	0.1937		300	0.1735	596	233	0.1670
88	445	8.4249	70	360	8.4231	94	334	8.4498	68	356	8.4611
		8.5376			8.5380			8.5564			8.5652
		8.9953			8.9917			9.0033			9.0069
14 248	1901		15 172	978		16 206	1333		16 149	943	
837 14 3802			573 15 1956			687 16 2666			5372 17 1886		
+29.75	+2 13.79	+1082	+13.83	+2 13.79	+1096	+19.79	+2 13.79	+1046	+25.14	+2 13.79	+1031
	12	+239		12	+238		13	+253		13	+259
+2 1369	-	+384	+2 1368	-	+384	+2 1369	-	+401	+2 1368	-	+409
	.02	+1627		.03	+1614		.02	+1658		.03	+1672
-1389	-16 5171	+3332	-1407	17 3324	+3332	-1242	18 4035	+3358	-1322	19 3254	+3371
-5931	-3.33		-5976	+3.33		-1 0.66	-3.36		-1 129	-8.37	
	16 1838	9.9751		17 2891	9.9747		18 3699	9.9739		19 2917	9.9733
		9.8873			9.8857			9.8933			9.8959
		9.5174			9.5210			9.5270			9.5316
		9.8624			9.8598			9.8672			9.8692
+7.96	9.80382	+7.884	+7.47	9.80716	+7.721	+8.69	9.79463	+7.935	+9.42	9.79047	+7.400
35 54	1.47349	-2.760	57 141	1.14082	-2.781	36 261	1.29645	-2.702	10 371	1.40037	-2.677
181	1.40571	+1.0084	367	1.07578	+1.0022	384	1.21888	+1.0067	487	1.31864	+1.0077
235		0.8196	408		0.8232	3	45	0.8292	58		0.8338
35 11.75		9.9751	57 20.40		9.9747	26 32.25		9.9739	10 42.90		9.9733
+25.42	50	0.0019	+11.91	50	0.0010	+16.55	51	0.0029	+20.83	51	0.0033
35 3.717	29 31.18	9.4047	57 32.31	7 35.55	9.4061	36 46.74	28 20.21	9.4203	11 3.73	54 6.07	9.4275
50 47 11.18	-20.10		50 25 13.04	-20.10		51 45 59.85	-20.07		52 11 44.62	-20.08	
-7 47.96	29 11.08	+4.63	-17 47.96	7 13.45	+4.67	-17 47.96	28 0.24	+4.74	-17 47.96	53 46.12	+4.80
-	24	+847	-	.05	+846	-	.11	+845	-	.17	+844
-	.03	+1118	-	30	+1116	-	46	+1121	-	.09	+1122
+ 809		-418	+ 769		-419	+ 910		-433	+ 951		-440
+ .14	16 34.51	+20.10	+ .13	17 15.84	+20.10	+ .16	18 23.57	+20.07	+ .17	19 15.95	+20.06
-17 40.00	28 11.8		-17 40.49	6 15.7		-17 39.27	26 59.6		-17 38.55	52 44.7	
50 29 23.22			50 7 28.08			28 11.62			51 53 56.66		



9.8462 0.9528 1.0467 1.2162 July 28 287.43	9.9789 26.11 -1.234 -1.3 8.9589 9.4833 9.0523 9.1222 +53.54 11.558 8.25 4.15 4.74 5.25 3.88 3.73 3.08	9.9778 26.40 -1.745 19.14 +51.7 13.558 50 5.33 5.73 2.3 2.25 2.58 2.92 3.24 3.57	9.9765 21.98 -1.571 19.15 +50.39 14.522 365 5.40 5.91 36 2.00 3.31 3.64 3.94 3.29	9.9752 21.26 -1.543 8.9104 9.5108 9.0219 0.1844 0.1552 8.4213 8.5327 8.9786 7.3 +1.073 +2.37 +3.80 +1.637 +3.54 +3.327 9.9757 9.8844 9.5108 9.8643	
9 07 8 332 87 356 65 390 425 460 (488) 7953 3806 -2457 +2 1370 +2 1370 -1201 -5471	9 415 10 168 474 30.1 525 3.88 88 373 308 1414 1188 4713 10 3376 +3663 +2 1350 +2 1369 -1194 -5607 9.9789 9.9067 9.4833 9.8856 +7684 +2564 +10248 0.7855 9.9789 0.0106 9.3900 +4.28 +8.54 +11.41 -404 +20.19 +21.12 1222.16 55 32.7 53 56 37.87	9 533 13 225 573 258 23 392 324 357 8.9618 9.4935 9.0542 0.1229 0.4882 8.4553 8.5477 9.0320 9.31 +3.49 +2 1369 -1351 -5769 9.9778 9.9077 9.4935 9.8855 +7683 +2553 +10236 0.7957 9.9778 0.0101 9.4012 +4.38 +8.52 +11.40 -414 +20.17 +21.15 1425.97 7 10.98 51 8 20.26	9 540 13 225 573 258 23 392 324 357 8.9176 9.5057 9.0263 0.1764 8.4232 8.5319 9.0028 +1053 +2 1367 -1376 -58.41 9.9765 9.8913 9.5056 9.8678 +7176 +2722 +10098 0.8078 9.9765 0.0842 9.3969 +4.51 +8.50 +11.24 -410 +8.29 +14 1522.94 3835.7 5039 46.62	9 540 13 200 591 33.1 36 364 294 239 8.9104 9.5108 9.0219 0.1844 0.1552 8.4213 8.5327 8.9786 7.3 +1.073 +2.37 +3.80 +1.637 +3.54 +3.327 9.9757 9.8844 9.5108 9.8643	
17 538 139 041 72 1290 0.2 30 1.50 -1950 53 18 4220 46 2950 54 4 635 -17 4776 -16 -39 +1145 +21 -17 3685 53 46 1839	7 479 156 354 592 146 190 1071 7 5355 +2897 53 8 22.52 56 4891 54 14 2583 -17 4776 56 2875 -35 38 +1156 +21 1222.16 55 32.7 53 56 37.87	56 1360 2653 51 56 40.13 8 2869 51 26 8.22 -17 4776 8 8.54 -26 16 +870 +15 1425.97 7 10.98 51 8 20.26	24 439 143 712 569 136 858 1008 24 50.40 +23.37 50 25 13.77 39 5423 5057 3458 -2044 39 34.09 20 62 +829 +14 1522.94 3835.7 5039 46.62	9.9752 21.26 -1.543 8.9104 9.5108 9.0219 0.1844 0.1552 8.4213 8.5327 8.9786 7.3 +1.073 +2.37 +3.80 +1.637 +3.54 +3.327 9.9757 9.8844 9.5108 9.8643	
July 28 290.9	9.9726	9.9714	9.9707	9.9700	
19 20 18 +52.30 19 499 281	2414 -1637 8.9392 9.5372 9.0396 0.1568 8.4764 8.5768 9.0122 950 3167 +32.5 +2 1369 -1292 -1201	19 32 2 +54 8 21 357 6.1 19 364 19 572 322 0.7 364 4.3 112 950 3211 20 22.2 13.79 +2 1369 -1206 -1327	19 32 53 +50 19 22 226 170 20 0.13 327 5.45 388 5.78 437 0.9 40 1153 3885 30 57.0 +1930 +2 1369 -1408 23 8.02	19 23 59 +50 36 23 278 333 21 263 21 564 304 598 358 935 3157 21 3083 22 314 +3231 +2 1366 -1398 -1471	2118 -1520 8.9096 9.5558 9.0215 0.1709 8.4652 8.5471 8.9915 +1089 +2.62 +421 +1613 +3385 9.9700 9.8881 9.5556 9.8581 +7213 2752 9.965 0.8578 9.9700 9.9785 9.4437
33 109 323 331 33 16.55 +23.12 33 3967 52 49 8.68 -17 47.96 -21 43 +10.12	9.48445 1.45179 1.36404 0.8394 9.9726 8.8039 9.4368 +4.85 +8.42 +11.24 -457 +20.01 +21 22 2.41 8 16.2 9.2959	55 19 1.512 55 135 140 8 17 144 55 7.20 +2560 54 55 32.80 9 3938 54 27 15.55 -17 47.96 28 01 +1187 +21 22 2.41 8 16.2	44 10 1.285 56 142 1.218 55 152 44 7.60 1654 50 44 24.14 20 4365 50 38 24.21 -17 47.96 10 53 +789 +1993 +14 22 53.94 19 19.9 50 20 36.25	27 394 1.509 34 406 143 973 699 27 34.95 +27.52 50 28 247 37 563 50 54 45.88 -17 47.96 29 34 +820 +14 23 59.44 35 41.0 50 36 57.92	9.9752 21.26 -1.543 8.9104 9.5108 9.0219 0.1844 0.1552 8.4213 8.5327 8.9786 7.3 +1.073 +2.37 +3.80 +1.637 +3.54 +3.327 9.9757 9.8844 9.5108 9.8643



July 28 291 18 9.9693	July 28 291 32 9.9686	July 28 291 37 9.9683	July 28 291 57 9.9673
19 24 86 +1.423 -16.49	19 25 50 +15.09 -1.563	19 26 12 +1.486 -1.586	19 27 31 +1.463 -1.609
+52.55 -14	+51.28 -14	+51.53 -14	+52.21 -14
24 280 8.9457	25 201 8.9233	25 425 8.9298	27 24 8.9371
523 9.5602	260 9.5647	510 9.5663	18.5 9.5726
22 553 22 525 9.0438	23 250 23 473 9.0297	24 270 24 84 9.0337	24 586 25 287 9.0383
423 56.1	508 53.6	354 11.5	32 32.1
484 590	556 570	390 150	94 354
0.1532	0.1787	0.1720	386 0.1652
88 58 8.5059	94 8.4880	89 8.4761	418 8.5097
8.6040	8.5944	8.6000	8.6107
9.0131	8.9783	9.0020	9.0058
32 1262 22 3958 9.999	33 3013 23 5384 +1.059	34 3313 24 1500 +1.043	35 373 35 3532 +1.027
4207 22 5916 +1.999	4307 22 1379 +2.288	4407 22 1379 +2.281	4507 22 1379 +2.274
+17.09 +2	+13.79 +2	+13.79 +2	+13.79 +2
+2 1367 -	+2 1367 -	+2 1367 -	+2 1367 -
1381 25 1288	1358 26 750	1337 26 2867	1318 27 4898
-1543 25 9.60	-16.15 26 344	-16.33 26 3525	-17.32 27 4854
9.9693	9.9686	9.9683	9.9673
9.9020	9.8935	9.8960	9.8988
9.5602	9.5647	9.5663	9.5726
9.8713	9.8621	9.8643	9.8661
+7.435 +8.22	+7.280 +9.53	+7.316 +9.68	+7.347 +9.84
2615 34 484 1.37493	2701 10 351 1.25840	2676 41 550 1.49955	2648 41 550 1.49955
1.14084 +1.0050	1.17677 +1.0992	1.17677 +1.0992	1.17677 +1.0992
0.8624 1094	0.8669 625	0.8685 20	0.8695 20
9.9693 34 51.70	9.9686 10 31.25	9.9683 42 1.00	9.9673 42 1.00
0.0022 +1.982	0.0022 +1.982	0.0022 +1.982	0.0022 +1.982
9.4622 35 14.52	9.4582 10 16.23	9.4623 42 25.90	9.4623 42 25.90
5147 3383	5147 3383	5147 3383	5147 3383
+5.11 +8.36	+5.17 +8.34	+5.18 +8.34	+5.18 +8.34
+8.36 +11.19	+8.34 +11.11	+8.34 +11.12	+8.34 +11.12
-4.77 +9.10	-4.72 +9.51	-4.77 +10.22	-4.77 +10.22
+19.89 +.16	+19.90 +.17	+19.87 +.18	+19.84 +.18
255.051 28 28.3	255.051 28 28.3	2611.88 53 27.5	2732.36 21 16.0
-17 3950	-17 3950	-17 3843	-17 3828
51 29 4837	51 29 4837	51 54 4416	52 22 3349
July 28 293 17 9.9631	July 28 293 33 9.9622	July 28 293 53 9.9611	July 28 293 73 9.9600
19 32 53 +15.10 -1.562	19 33 53 +15.19 -1.553	19 35 16 +15.11 -1.561	19 37 16 +15.11 -1.561
+51.48 -14	+51.41 -14	+51.54 -14	+51.54 -14
32 223 8.9285	33 22.5 8.9267	34 459 8.9380	35 29.35 8.9380
455 9.5969	380 9.6016	51.2 9.6073	51.2 9.6073
80 162 30 495 9.0329	81 350 31 503 9.0318	82 36 32 126 9.0339	83 36 32 126 9.0339
207 529	337 537	82 18.4	82 18.4
243 56.1	360 57.1	135 19.5	135 19.5
0.1790	0.1816	0.1793	0.1793
8.525492	8.5283	8.5373	8.5373
8.6298	8.6334	8.6412	8.6412
8.9960	8.9940	8.9950	8.9950
30 3040 30 5618	31 3100 31 5703	32 3100 32 5703	33 3100 33 5703
+35.78 +2 13.79	+26.02 +2 13.79	+11.06 +2 13.79	+11.06 +2 13.79
+2 1367 -	+2 1367 -	+2 1367 -	+2 1367 -
1359 33 9.85	1368 34 1068	1361 35 3283	1361 35 3283
-111.9 33 6.88	-112.00 34 7.21	-112.99 35 29.35	-112.99 35 29.35
9.9631	9.9622	9.9611	9.9600
9.8955	9.8948	9.8961	9.8973
9.5969	9.6016	9.6073	9.6073
9.5586	9.5570	9.5592	9.5592
+2.221 +9.00	+2.195 +9.08	+2.198 +9.08	+2.198 +9.08
2.681 22 1.41531	2.688 9	2.675 9	2.675 9
+9.902 22 1.41531	+9.883 9	+9.873 9	+9.873 9
0.8991 191	0.9038 443	0.9095 443	0.9095 443
9.9631 22 9.55	9.9622 9 22.15	9.9611 9 22.15	9.9611 9 22.15
9.9957 +21.6551	9.9949 +9.16	9.9944 +9.16	9.9944 +9.16
9.4924 22 31.20	9.4964 9 31.3	9.5034 55 38.16	9.5034 55 38.16
520 1715	52 13 17.04	52 13 17.04	52 13 17.04
-17 47.96	-17 47.96	-17 47.96	-17 47.96
42 18.50	42 18.50	42 18.50	42 18.50
+5.62	+5.62	+5.70	+5.70
+8.22	+8.22	+8.20	+8.20
+11.01	+11.01	+10.99	+10.99
-5.16	-5.16	-5.24	-5.24
+19.69	+19.69	+19.65	+19.65
-17 38.88	-17 38.88	-17 38.88	-17 38.88
51 42 2919	51 55 2908	51 55 2908	51 55 2908



820	July 28	292 14	9.9664	July 28	292 30	9.9656	July 28	292 40	9.9656	July 28	292 57	9.9648		
19 28 40	+1372	.2640	19 29 46	+1353	.2696	19 30 21	+1504	.2302	19 31 7	+1524	.2252	19 31 7	+1524	.2252
+58 55	-14	-1.700	+54 17	-14	-1.719	+54 46	-14	-1.568	+51 29	-14	-1.548	+51 29	-14	-1.548
28 128		8.9618	29 185		8.9674	29 507		8.9280	30 371		8.9230	30 371		8.9230
526		9.5779	144		9.5828	434		9.5859	266		9.5892	266		9.5892
26 17.1	26 365	9.0542	27 95	27 406	9.0578	28 192	28 187	9.0326	28 546	29 47	9.0296	28 546	29 47	9.0296
322	395		144	443		236	320		594	80		594	80	
375	430		200	477		375	355		61	112		61	112	
	468	0.1344		512	0.1213		285	0.1772		145	0.1830		145	0.1830
88	501	8.5397	92	546	8.5502	88	519	8.5139	92	546	8.5122	92	546	8.5122
		8.6321			8.6406			8.6185			8.6185			8.6185
		9.0206			9.0284			8.9977			8.9943			8.9943
36 668	2154		27 439	2384		28 703	1266		39 1801	566		39 1801	566	
2237	4314		1463	4768		2348	3533		203	1132		203	1132	
+20.87	+2	+963	+33.05	+2	+950	+1.89	+2	+1055	+11.29	+2	+1070	+11.29	+2	+1070
	.14	+311		.14	+318			+293			+292			+292
+2 1367		+477	+2 1366		+487	+2 1367		+463	+2 1366		+463	+2 1366		+463
	.02	+175		.03	+1736			+1636			+1623			+1623
-12.35	28 5681	+3476	-12.18	30 134	+3491	-13.54	30 3899	+3447	-13.72	31 2498	+3448	-13.72	31 2498	+3448
-1.813	28 4343		-1.894	29 5785		-1.939	30 3534		-1.1002	31 2153		-1.1002	31 2153	
		9.9664			9.9656			9.9656			9.9648			9.9648
		9.9077			9.9096			9.8953			9.8934			9.8934
		9.5779			9.5828			9.5859			9.5892			9.5892
		9.8748			9.8752			9.8604			9.8579			9.8579
		+7483	+11.73	976 625	+7502	+9.23	979460	+7251	+9.07	979431	+7210	+9.07	979431	+7210
7 380	1.31952	2.553	46 108	1.51917	2.532	17 248	0.27646	2.683	36 68	1.05269	2.701	36 68	1.05269	2.701
489	1.21741	+1.0036	308	1.41322	+1.0034	448	0.19586	+9934	181	0.97480	+9911	181	0.97480	+9911
869		0.8801	506		0.8850	196		0.8881	249		0.8914	249		0.8914
43.45		9.9664	46 2530		9.9656	17 39.80	0.7	9.9651	36 12.45		9.9645	36 12.45		9.9645
+16.50	53	0.0016	+2590	54	0.0015	+15.70	51	9.9971	+9.44	51	9.9961	+9.44	51	9.9961
59.95	57 11.8	9.9856	46 51.20	18 2092	9.9724	17 39.80	0.7	9.9812	36 21.89	28 4757	9.9826	36 21.89	28 4757	9.9826
54 14 4840	-1977		54 35 5715	-1974		52 5 52.50	-1978		51 46 2646	-1978		51 46 2646	-1978	
-17 47.96	56 51.98	+532	-17 47.96	18 1.18	+539	-17 47.96	47 1.61	+542	-17 47.96	28 27.79	+547	-17 47.96	28 27.79	+547
.11		+8.30		.28	+8.29		.50	+8.28		.03	+8.27		.03	+8.27
35		+11.18		.18	+11.17		.35	+11.06		.16	+11.04		.16	+11.04
+71.56		-503	+1197		-511	+941		-498		+910	-500		+910	-500
+21 2840.98		+19.77	+22 2945.67		+19.74	+17 30 22.00		+19.78	+16 31 7.81	+19.78		+16 31 7.81	+19.78	
-17 36.65	55 48.8		-17 36.23	16 52.2		-17 38.73	45 59.1		-17 38.89	27 17.8		-17 38.89	27 17.8	
53 57 0.44			54 18 9.19			51 47 22.16			51 28 38.50			51 28 38.50		
July 28	294 12	9.9650	July 28	294 13	9.9650	July 28	294 41	9.9584	July 28	294 44	9.9582			
19 36 32	+1530	.2281	19 36 35	+1523	.2299	19 38 28	+1539	.2271	19 38 40	+1347	.2785	19 38 40	+1347	.2785
+51 39	-14	-1.542	+51 45	-14	-1.549	+54 38	-14	-1.533	+54 50	-14	-1.525	+54 50	-14	-1.525
36 13		8.9259	36 42		8.9277	37 57.1		8.9249	38 18.6		8.9763	38 18.6		8.9763
362		9.6127	427		9.6130	316		9.6208	469		9.6216	469		9.6216
34 18 34	297	9.0313	34 57.1	34 883	9.0325	35 54.4	36 358	9.0307	37 68	37 53	9.0637	37 68	37 53	9.0637
70	333		85	18		00	290		89	88		89	88	
130	364		63	50		64	320		10.7	11.8		10.7	11.8	
	397	0.1847		50	0.1827		356	0.1872		154	0.1294		154	0.1294
9.1	431	8.5386	90	114	8.5407	94	392	8.5457	96	190	8.5979	96	190	8.5979
		8.6440			8.6455			8.6515			8.6855			8.6855
		8.9913			8.9925			8.9894			9.0211			9.0211
208	1821		1839	3244		1808	1616		264	37	1204	264	37	1204
34 693	34 3642		35 136	35 445		36 037	36 3232		37 820	36 43.39	+945	37 820	36 43.39	+945
+2949	+2	+1074	-23.07	34 35.23	+1069	+32.05	+2	+1080	+25.41	+2	+945	+25.41	+2	+945
	.13	+310		12 13.79	+312		.13	+315		.14	+305		.14	+305
+2 1366		+491	+2 1367		+492	+2 1366		+499	+2 1367		+499	+2 1367		+499
	.23	+1612		.23	+1617		.23	+1604		.24	+1730		.24	+1730
-13.77	36 5008	+3984	-13.72	36 5790	+3490	-1386	38 4598	+3498	-12.13	38 5706	+3570	-12.13	38 5706	+3570
-13.89	36 4609		-13.89	36 1841		-11524	38 4248		-11542	38 5349		-11542	38 5349	
		9.9650			9.9602			9.9584			9.9580			9.9580
		9.8945			9.8952			9.8941			9.9126			9.9126
		9.6127			9.6130			9.6208			9.6216			9.6216
		9.8545			9.8552			9.8525			9.8708			9.8708
		+7153	+9.00	979176	+7165	+8.61	979285	+7120	+1200	976 039	+7422	+1200	976 039	+7422
24 10.1	1.46967	2.691	18 191	1.36305	2.684	28 441	1.50583	2.695	14 171	1.40500	2.492	14 171	1.40500	2.492
331	1.39019	+9844	3201.28	2612	+9849	572	1.42651	+9815	233	1.29319	+9925	233	1.29319	+9925
332		0.9149	511		0.9152	1013		0.9230	512		0.9238	512		0.9238
24 1660		9.9650	18 25.50		9.9600	28 5065		9.9584	49 19.20		9.9582	49 19.20		9.9582
+24.50	51	9.9932	-19.17	51	9.9934	+2670	51	9.9919	+1964	54	9.9967	+1964	54	9.9967
24 41.16	40 2791	9.5072	18 6.33	47 306	9.5082	29 1725	35 5165	9.5149	14 36.84	50 3555	9.5344	14 36.84	50 3555	9.5344
51 58 7.19	-1962		52 4 42.02	-1962		51 53 31.00	-1968		53 8 11.51	-1946		53 8 11.51	-1946	
-17 49.96	40 829	+5.77	-17 47.96	46 43.44	+5.77	-17 47.96	35 82.07	+5.88	-17 47.96	50 14.09	+5.89	-17 47.96	50 14.09	+5.89
.23		+8.18		.14	+8.18		.27	+8.15		.16	+8.15		.16	+8.15
56		+10.96		.44	+10.97		.49	+10.93		.57	+11.05		.57	+11.05
+981		-529	+941		-530	+921		-538	+1249	28 41.36	-563	+1249	28 41.36	-563
+16 3632.82		+1962	+17 3634.69		+19.52	+16 3828.62		+19.58	+23 5043.29		+19.46	+23 5043.29		+19.46
-17 39.28	38 54.4		-17 38.96	45 29.6		-17 39.35	34 16.8		-17 35.96	49 40.0		-17 35.96	49 40.0	
51 40 1923			51 46 54.06			51 35 43.04			54 50 23.55			54 50 23.55		



820	July 28	294 57	9.9574	July 28	295 10	9.9567	July 28	295 11	9.9566	July 28	295 27	9.9557
19 39 30	+1558	-1514	19 40 21	+1539	-1533	+1541	-1531	19 41 29	+1607	-1465	19 41 29	+1607
+51 18	-15	8.9204	+51 41	-15	8.9267	-15	8.9261	+50 29	-15	8.9078	+50 29	-15
38 589	15.1	9.6251	39 529	38.9	9.6286	38 596	38 490	40 578	261	9.6332	39 563	39 540
57.7	57.7	9.0280	38 300	38 355	9.0318	38 596	38 490	9.0315	39 563	39 540	39 563	39 540
37 534	57.7	0.1926	37 534	57.7	0.1872	38 596	38 490	0.1878	39 563	39 540	39 563	39 540
37 534	57.7	8.5455	37 534	57.7	8.5553	38 596	38 490	8.5550	39 563	39 540	39 563	39 540
37 534	57.7	8.6531	37 534	57.7	8.6604	38 596	38 490	8.6604	39 563	39 540	39 563	39 540
37 534	57.7	8.9854	37 534	57.7	8.9885	38 596	38 490	8.9881	39 563	39 540	39 563	39 540
37 534	57.7	+10.93	38 32.75	38 32.66	+10.80	38 32.75	38 32.66	+10.81	39 563	39 540	39 563	39 540
37 534	57.7	+3.15	38 32.75	38 32.66	+3.22	38 32.75	38 32.66	+3.22	39 563	39 540	39 563	39 540
37 534	57.7	+2.4	38 32.75	38 32.66	+2.4	38 32.75	38 32.66	+2.4	39 563	39 540	39 563	39 540
37 534	57.7	+1.591	38 32.75	38 32.66	+1.602	38 32.75	38 32.66	+1.601	39 563	39 540	39 563	39 540
37 534	57.7	+3.500	38 32.75	38 32.66	+3.513	38 32.75	38 32.66	+3.513	39 563	39 540	39 563	39 540
37 534	57.7	9.9574	38 32.75	38 32.66	9.9567	38 32.75	38 32.66	9.9566	39 563	39 540	39 563	39 540
37 534	57.7	9.8924	38 32.75	38 32.66	9.8948	38 32.75	38 32.66	9.8946	39 563	39 540	39 563	39 540
37 534	57.7	9.6251	38 32.75	38 32.66	9.6286	38 32.75	38 32.66	9.6289	39 563	39 540	39 563	39 540
37 534	57.7	9.8498	38 32.75	38 32.66	9.8516	38 32.75	38 32.66	9.8512	39 563	39 540	39 563	39 540
37 534	57.7	+7.076	38 32.75	38 32.66	+7.104	38 32.75	38 32.66	+7.099	39 563	39 540	39 563	39 540
37 534	57.7	+9.20	38 32.75	38 32.66	+9.22	38 32.75	38 32.66	+9.23	39 563	39 540	39 563	39 540
37 534	57.7	9.79605	38 32.75	38 32.66	9.79240	38 32.75	38 32.66	9.79240	39 563	39 540	39 563	39 540
37 534	57.7	1.27400	38 32.75	38 32.66	1.2688	38 32.75	38 32.66	1.2690	39 563	39 540	39 563	39 540
37 534	57.7	1.19985	38 32.75	38 32.66	1.19482	38 32.75	38 32.66	1.19481	39 563	39 540	39 563	39 540
37 534	57.7	0.9273	38 32.75	38 32.66	0.9308	38 32.75	38 32.66	0.9311	39 563	39 540	39 563	39 540
37 534	57.7	9.9574	38 32.75	38 32.66	9.9567	38 32.75	38 32.66	9.9566	39 563	39 540	39 563	39 540
37 534	57.7	9.9906	38 32.75	38 32.66	9.9909	38 32.75	38 32.66	9.9907	39 563	39 540	39 563	39 540
37 534	57.7	9.5175	38 32.75	38 32.66	9.5234	38 32.75	38 32.66	9.5235	39 563	39 540	39 563	39 540
37 534	57.7	+5.94	38 32.75	38 32.66	+5.98	38 32.75	38 32.66	+5.99	39 563	39 540	39 563	39 540
37 534	57.7	+8.13	38 32.75	38 32.66	+8.12	38 32.75	38 32.66	+8.12	39 563	39 540	39 563	39 540
37 534	57.7	+10.90	38 32.75	38 32.66	+10.90	38 32.75	38 32.66	+10.90	39 563	39 540	39 563	39 540
37 534	57.7	-5.42	38 32.75	38 32.66	-5.47	38 32.75	38 32.66	-5.49	39 563	39 540	39 563	39 540
37 534	57.7	+9.31	38 32.75	38 32.66	+9.31	38 32.75	38 32.66	+9.31	39 563	39 540	39 563	39 540
37 534	57.7	+19.55	38 32.75	38 32.66	+19.51	38 32.75	38 32.66	+19.52	39 563	39 540	39 563	39 540
37 534	57.7	+17.36	38 32.75	38 32.66	+17.36	38 32.75	38 32.66	+17.36	39 563	39 540	39 563	39 540
37 534	57.7	41 39.6	38 32.75	38 32.66	41 39.6	38 32.75	38 32.66	41 39.6	39 563	39 540	39 563	39 540
37 534	57.7	51 43.646	38 32.75	38 32.66	51 43.646	38 32.75	38 32.66	51 43.646	39 563	39 540	39 563	39 540
37 534	57.7	296 43	9.9510	297 3	9.9497	297 32	9.9478	297 44	9.9470	297 44	9.9470	297 44
19 46 35	+1557	-1515	19 47 54	+1462	-1610	19 49 50	+1620	-1452	19 50 40	+1615	-1457	19 50 40
+51 43	-15	8.9272	+51 43	-15	8.9550	+50 44	-15	8.9119	+50 54	-15	8.9142	+50 54
46 40	405	9.6528	47 255	265	9.6578	47 180	411	9.6649	50 78	510	9.6678	510
44 39	44 31.8	9.0321	45 31.7	45 512	9.0497	47 182	47 490	9.0228	48 194	48 380	9.0243	48 380
93	35.2	0.1923	93	35.2	0.1650	47 182	47 490	0.2095	48 194	48 380	0.2082	48 380
16.7	38.3	8.5800	16.7	38.3	8.6128	47 182	47 490	8.5768	48 194	48 380	8.5820	48 380
91	45.3	8.6849	91	45.3	8.7075	47 182	47 490	8.6877	48 194	48 380	8.6921	48 380
283	42.4	8.9831	283	42.4	8.9994	47 182	47 490	8.9706	48 194	48 380	8.9713	48 380
14.15	44 38.48	+10.93	14.15	44 38.48	+10.26	47 23.63	47 55.28	+1137	48 24.73	48 44.50	+1133	48 44.50
+2905	+2	+3.41	+2905	+2	+3.68	+31.65	+2	+339	+19.77	+2	+343	+19.77
+2	13.65	-2.4	+2	13.65	-2.5	+2	13.64	-2.4	+2	13.65	-2.4	+2
14.01	46 52.13	+3.555	14.01	46 52.13	+3.605	50 8.92	-3.56	+3.555	50 8.92	-3.56	+3.555	50 8.92
-121.00	46 48.57	9.9510	-121.00	46 48.57	9.9497	50 5.36	9.9478	-123.34	50 5.36	9.9478	-123.34	50 5.36
19 40.2	14.63 15	9.8950	19 40.2	14.63 15	9.9053	18 42.6	1.50037	9.8891	10 53.9	9.79981	9.8900	10 53.9
51.8	13.83 03	9.6528	51.8	13.83 03	9.6578	18 42.6	1.50037	9.6649	10 53.9	9.79981	9.6678	10 53.9
120	0.9550	9.8460	120	0.9550	9.8550	18 42.6	1.50037	9.8369	10 53.9	9.79981	9.8370	10 53.9
19 46.00	51	9.9510	19 46.00	51	9.9497	18 42.6	1.50037	9.9613	10 53.9	9.79981	9.9606	10 53.9
+24.16	51	9.9868	+24.16	51	9.9886	18 42.6	1.50037	9.9671	10 53.9	9.79981	9.9671	10 53.9
20 10.16	44 58.82	9.5478	20 10.16	44 58.82	9.5631	18 42.6	1.50037	9.9478	10 53.9	9.79981	9.9470	10 53.9
52 2 38.19	-19.36	+6.33	52 2 38.19	-19.36	+6.40	19 15.09	45 53.08	+6.51	51 12.84	54 83.58	+6.55	51 12.84
-17 47.96	44 38.63	+8.01	-17 47.96	44 38.63	+7.99	51 3 33.26	-17 47.96	+7.95	51 12.84	54 83.58	+7.94	51 12.84
-22	62	+1080	-22	62	+1085	51 3 33.26	-17 47.96	+10.71	51 12.84	54 83.58	+10.70	51 12.84
+9.31	46 34.56	+19.33	+9.31	46 34.56	+19.22	51 3 33.26	-17 47.96	-5.89	51 12.84	54 83.58	-5.94	51 12.84
+16	46 34.56	+19.33	+16	46 34.56	+19.22	51 3 33.26	-17 47.96	+19.28	51 12.84	54 83.58	+19.25	51 12.84
-17 39.38	43 18.5	47 54.97	-17 39.38	43 18.5	47 54.97	51 3 33.26	-17 47.96	49 50.77	51 12.84	54 83.58	49 50.77	51 12.84
51 44 50.23	53 31 8.03	2937.6	51 44 50.23	53 31 8.03	2937.6	51 3 33.26	-17 47.96	44 10.5	51 12.84	54 83.58	44 10.5	51 12.84



July 28 295 36 9.9551				July 28 295 47 9.9545				July 28 296 8 9.9532				July 28 296 17 9.9526			
2097				2237				2297				2105			
19 42 5 +1611 -1461				19 42 51 +1565 -1507				19 44 15 +1548 -1524				19 44 48 +1616 -1456			
+50 27 -15				+51 21 -15				+51 45 -15				+50 31 -15			
41 331				42 196				43 441				44 163			
241				184				424				281			
40 314 40 300				41 103 41 147				41 343 41 467				42 345 42 482			
387				138				583				390			
423				170				20				456			
398				344				a-1 565				576			
430				378				597				10			
0.2071				0.1945				0.1898				0.2084			
8.5431				8.5600				8.5714				8.5545			
8.6558				8.6671				8.6762				8.6667			
8.9753				8.9831				8.9855				8.9733			
+1.131				+1.098				+1.086				+1.134			
+3.13				+3.26				+3.34				+3.22			
+2 1364				+2 1365				+2 1365				+2 1365			
+1.24				+1.02				+1.23				+1.24			
+1.534				+1.582				+1.591				+1.547			
+3.502				+3.523				+3.539				+3.520			
-14.49				-14.08				-13.93				-14.54			
-117.85				-118.39				-119.38				-119.83			
42 2075				43 497				44 292				45 469			
9.9551				9.9545				9.9532				9.9526			
9.8873				9.8928				9.8957				9.8876			
9.6356				9.6385				9.6439				9.6462			
9.8424				9.8473				9.8483				9.8402			
+7.82				+7.036				+7.052				+6.921			
9.80397				9.7958				9.79176				9.80336			
+6.957				+7.036				+7.052				+6.921			
36 329 1.42 54				36 329 1.42 54				36 329 1.42 54				36 329 1.42 54			
1.36 023				1.19 823				1.25 482				1.10 318			
587				0.9407				0.9461				0.9484			
29.35				9.9545				9.9532				9.9526			
-2.92				9.9887				9.9884				9.9858			
50				9.5313				9.5390				9.5238			
36 643 29 1.78				41 4.62 23 27.57				46 29.02				32 20.09			
5046 41.92 -19.51				51.91 6.73 -19.16				52.4 7.97 -19.10				50.50 0.22 -19.43			
-17 47.96 28 42.27				-17 47.96 23 8.11				-17 47.96 46 9.62				-17 47.96 32 0.66			
+6.08				+6.12				+6.20				+6.23			
+8.09				+8.08				+8.05				+8.04			
+10.82				+10.85				+10.84				+10.78			
+5.48				+5.59				+5.69				+5.62			
+9.00				+9.41				+9.41				+8.09			
+1.14				+1.16				+1.17				+1.14			
42 6.26				42 50.89				44 15.99				44 50.15			
+19.51				+19.46				+19.40				+19.43			
-17 40.14 27 24.4				-17 39.16 21 49.7				-17 38.95 44 50.2				-17 40.13 42 30.0			
50 28 53.96				51 23 18.77				51 46 20.01				50 32 12.26 30 40.5			
July 28 298 3 9.9457				July 28 298 10 9.9453				July 28 298 45 9.9429				July 28 298 52 9.9424			
2128				2659				2395				2302			
19 51 53 +1632 -1440				19 52 24 +1446 -1626				19 54 42 +1550 -1522				19 55 11 +1584 -1488			
30 39 -15				+54 3 -16				+52 2 -16				+51 46 -16			
51 207				51 551				54 119				54 397			
357				53 597				195				428			
8.9106				8.9637				8.9373				8.9280			
9.6723				9.6740				9.6821				9.6837			
9.0221				9.0554				9.0385				9.0326			
50 365 50 205				50 365 50 205				50 365 50 205				50 365 50 205			
58.1				30.7				14.0				4.85			
58.2				30.7				21.3				4.65			
58.3				30.7				50.0				50.0			
1.7				31.5				53.4				53.4			
8.5829				8.6377				8.6194				8.6117			
8.6944				8.7294				8.7206				8.7163			
8.9678				9.0007				8.9814				8.9750			
291				32				334				42			
49 29.70 49 5836				50 31.07 50 27.74				52 15.57 52 46.68				53 41.40 53 15.00			
+28.66 +2 1379				-3.33 +2 13.78				+3.14 +2 13.78				-25.76 +2 13.78			
+1.145				+1.14				+1.13				+1.12			
+3.43				+3.89				+3.73				+3.67			
+2 1364				+2 1363				+2 1362				+2 1363			
+1.24				+1.02				+1.26				+1.26			
+1.528				+1.648				+1.576				+1.579			
+3.567				+3.649				+3.622				+3.613			
-14.69				-13.01				-13.95				-14.26			
-124.60				-125.05				-126.67				-127.03			
52 1200				52 4137				55 030				55 2927			
-3.57				-3.63				-3.62				-3.61			
52 8.43				52 37.72				54 57.68				55 35.66			
9.9457				9.9453				9.9429				9.9424			
9.8885				9.9083				9.8989				9.8953			
9.6723				9.6740				9.6821				9.6837			
9.8342				9.8536				9.8418				9.8377			
+6.826				+7.138				+6.947				+6.882			
2.449				2.546				2.647				2.683			
+9.575				+9.684				+9.594				+9.565			
0.9745				0.9762				0.9843				0.9859			
9.9457				9.9453				9.9429				9.9424			
9.9811				9.9860				9.9820				9.9807			
9.5608				9.5823				9.5810				9.5790			
0 54.40				0 51.78				0 52.47				0 51.40			
+2.62				+2.36				+2.57				+2.14			
24 24.39 50				4 20.36				24 17.81				47 45.69			
50 58 19.56 -19.04				54 21 56.57 -18.86				52 41 55.88 -19.04				52 5 24.60 -19.03			
-17 47.96 40 20.21				-17 47.96 4 1.60				-17 47.96 23 58.77				-17 47.96 47 26.64			
+6.62				+6.64				+6.77				+6.79			
+7.74				+7.73				+7.86				+7.86			
+10.66				+10.78				+10.68				+10.65			
-5.78				-6.29				-6.27				-6.24			
+11.76				+11.86				+11.86				+11.86			
+19.04				+19.04				+19.04				+19.05			
+1.14				+1.14				+1.14				+1.14			
51 53.74				52 24.71				54 42.73				55 11.40			
-17 40.31 38 53.6				-17 36.21 2 36.6				-17 38.07 22 32.1				-17 38.91 45 59.6			
50 40 31.60				54 4 8.61				52 24 7.72				51 47 36.64			



820

July 28 299 24 994106				July 28 299 27 99399				July 28 299 38 99391				July 28 299 51 99382			
19 57 16	+1601	-1471	8.9254	19 57 31	+1601	-1465	8.9238	19 58 14	+1545	-1527	8.9426	19 59 6	+1457	-1615	8.9677
56 444	-16	56 585	277	56 444	-16	56 444	277	56 444	-16	56 444	277	56 444	-16	56 444	277
330		330		330		330		330		330		330		330	
54 437	54 449	54 437	54 449	54 437	54 449	54 437	54 449	54 437	54 449	54 437	54 449	54 437	54 449	54 437	54 449
465	510	465	510	465	510	465	510	465	510	465	510	465	510	465	510
514	544	514	544	514	544	514	544	514	544	514	544	514	544	514	544
91	578	91	578	91	578	91	578	91	578	91	578	91	578	91	578
	11		11		11		11		11		11		11		11
	22656		22656		22656		22656		22656		22656		22656		22656
206	222	206	222	206	222	206	222	206	222	206	222	206	222	206	222
54 468	54 468	54 468	54 468	54 468	54 468	54 468	54 468	54 468	54 468	54 468	54 468	54 468	54 468	54 468	54 468
+3413	+2100	+3413	+2100	+3413	+2100	+3413	+2100	+3413	+2100	+3413	+2100	+3413	+2100	+3413	+2100
+2 1362	-26	+2 1362	-26	+2 1362	-26	+2 1362	-26	+2 1362	-26	+2 1362	-26	+2 1362	-26	+2 1362	-26
-1440	57 346	-1440	57 346	-1440	57 346	-1440	57 346	-1440	57 346	-1440	57 346	-1440	57 346	-1440	57 346
-12847	-362	-12847	-362	-12847	-362	-12847	-362	-12847	-362	-12847	-362	-12847	-362	-12847	-362
57 3100	9.9401	57 3100	9.9401	57 3100	9.9401	57 3100	9.9401	57 3100	9.9401	57 3100	9.9401	57 3100	9.9401	57 3100	9.9401
	9.8943		9.8943		9.8943		9.8943		9.8943		9.8943		9.8943		9.8943
	9.6910		9.6910		9.6910		9.6910		9.6910		9.6910		9.6910		9.6910
	9.8344		9.8344		9.8344		9.8344		9.8344		9.8344		9.8344		9.8344
+885	9.79319	+885	9.79319	+885	9.79319	+885	9.79319	+885	9.79319	+885	9.79319	+885	9.79319	+885	9.79319
36 801	1.53314	36 801	1.53314	36 801	1.53314	36 801	1.53314	36 801	1.53314	36 801	1.53314	36 801	1.53314	36 801	1.53314
403	1.45413	403	1.45413	403	1.45413	403	1.45413	403	1.45413	403	1.45413	403	1.45413	403	1.45413
104	0.9932	104	0.9932	104	0.9932	104	0.9932	104	0.9932	104	0.9932	104	0.9932	104	0.9932
26 3520	9.9401	26 3520	9.9401	26 3520	9.9401	26 3520	9.9401	26 3520	9.9401	26 3520	9.9401	26 3520	9.9401	26 3520	9.9401
+2845	9.9788	+2845	9.9788	+2845	9.9788	+2845	9.9788	+2845	9.9788	+2845	9.9788	+2845	9.9788	+2845	9.9788
27 365	9.5853	27 365	9.5853	27 365	9.5853	27 365	9.5853	27 365	9.5853	27 365	9.5853	27 365	9.5853	27 365	9.5853
51 55 4470	-1899	51 55 4470	-1899	51 55 4470	-1899	51 55 4470	-1899	51 55 4470	-1899	51 55 4470	-1899	51 55 4470	-1899	51 55 4470	-1899
-17 4796	37 4660	-17 4796	37 4660	-17 4796	37 4660	-17 4796	37 4660	-17 4796	37 4660	-17 4796	37 4660	-17 4796	37 4660	-17 4796	37 4660
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-21	+1060	-21	+1060	-21	+1060	-21	+1060	-21	+1060	-21	+1060	-21	+1060	-21	+1060
+921	-633	+921	-633	+921	-633	+921	-633	+921	-633	+921	-633	+921	-633	+921	-633
+16	57 16.60	+16	57 16.60	+16	57 16.60	+16	57 16.60	+16	57 16.60	+16	57 16.60	+16	57 16.60	+16	57 16.60
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51 375674		51 375674		51 375674		51 375674		51 375674		51 375674		51 375674		51 375674	
July 28 300 39 99346				July 28 301 15 99319				July 28 301 25 99312				July 28 303 17 99222			
20 2 19	+1540	-1532	8.9486	20 4 43	+1641	-1431	8.9215	20 5 24	+1580	-1492	8.9405	20 12 47	+1670	-1402	8.9223
+53 5	-16	+53 5	-16	+53 5	-16	+53 5	-16	+53 5	-16	+53 5	-16	+53 5	-16	+53 5	-16
1 486	2	1 486	2	1 486	2	1 486	2	1 486	2	1 486	2	1 486	2	1 486	2
56 0	43.9	56 0	43.9	56 0	43.9	56 0	43.9	56 0	43.9	56 0	43.9	56 0	43.9	56 0	43.9
104	473	104	473	104	473	104	473	104	473	104	473	104	473	104	473
155	508	155	508	155	508	155	508	155	508	155	508	155	508	155	508
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1 15	-27.47	1 15	-27.47	1 15	-27.47	1 15	-27.47	1 15	-27.47	1 15	-27.47	1 15	-27.47	1 15	-27.47
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2 3343	9.9346	2 3343	9.9346	2 3343	9.9346	2 3343	9.9346	2 3343	9.9346	2 3343	9.9346	2 3343	9.9346	2 3343	9.9346
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-17 4796	6 52.44	-17 4796	6 52.44	-17 4796	6 52.44	-17 4796	6 52.44	-17 4796	6 52.44	-17 4796	6 52.44	-17 4796	6 52.44	-17 4796	6 52.44
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+1073	+1056	+1073	+1056	+1073	+1056	+1073	+1056	+1073	+1056	+1073	+1056	+1073	+1056	+1073	+1056
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+19	2 19.27	+19	2 19.27	+19	2 19.27	+19	2 19.27	+19	2 19.27	+19	2 19.27	+19	2 19.27	+19	2 19.27
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53 7 132		53 7 132		53 7 132		53 7 132		53 7 132		53 7 132		53 7 132		53 7 132	



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[illegible]



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+54 17	-13	8.9666	+50 11	-14	-1578	+50 11	-14	-1587	+53 10	-14	8.9499	8.9498
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188		9.0573	15 195	15 487	9.0178	24 166	33 567	9.0178	25 24	35 130		9.0463
383 8	[186]	20573	234	531	238	0.0	0.0	24526361	5583	197		
424	357		800	549	366	66	96	560		233		
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			129	251		59	162		24 54	158	490	
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4240	+2 13.15	+881	+3078	+2 13.14	+1046	-18.73	+2 13.14	+1039	+647	+2 13.14	+913	
+4682	+18	-177			-130			-105	+2524		-113	
+2 13.21	-0.22	-258	+2 13.05	-0.22	-201	+2 13.06	-0.22	-162	+2 13.05	-0.23	-166	
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47 57.20	11.40	9.9899	52 56.95	+26.4550	9.9927	54 21.05		9.9953	53 59.60		9.9956	
+3668	36.68	5416 3768	0.0197		0.0141	-16.10 50		0.0161	+2033	53 10 52.75	0.0222	
48 32.88	49 48.08	15 2337	9.2383	53 23.40	11 4424	9.1448	54 49.5	11 266	9.0518	53 46.73	2442	9.0532
34 14.47	54 33 027	-1979	5029 24.95	-1987	5028 43.40	-1972	5028 43.40	-1972	53 288 250 28.42	-1997		
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	+21 10 28.67	+19.77	+13	17 52.23	+19.57	+13	26.0.42	+19.72	+18	27 18.62	+19.77	
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54 15 12.34			50 11 37.02		50 10 55.47			50 11 14.07				
July 26	265 56	9.9989	July 26	265 58	9.9989	July 26	269 13	9.9989	July 26	269 16	9.9989	
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40 474	40 580	9.0499	42 8.9	41 33.7	9.0291	53 56.5	54 50	9.0331	54 352	54 46.7	9.0219	
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+1287	-2.63		-1287	-2.64		+2.61	-2.73		+2.43	-2.76		
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32 32.70		9.9989	39 48.90		9.9989	13 22.80		9.9989	25 20.30		9.9989	
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33 150.7	31 53.84	8.9562	39 21.53	25 47.07	8.9403	13 53.31	51 15.87	8.0314	25 31.19	39 37.53	7995.6	
53 49 33.28	-20.15		51 43 26.82	-30.02		52 8 55.04	-20.14		50 51 17.16	-20.07		
-17 47.93	31 35.69	-100	-17 47.93	25 27.05	-99	-17 47.93	50 53.73	-19	-17 47.93	39 17.48	-18	
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-166 +2 1305

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+2492

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-17 39.71

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+2

13.13

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-166

-0.99

+1807

+2613

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July 26 265 1 9.9984

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23 53.05



819

July 26 270 49	100000	July 26 272 51	9.9995	July 26 274 11	9.9988	July 26 274 54	9.9984
18 3 7	+1198	18 11 9	+1257	18 16 31	+1421	18 19 24	+1164
+54 30 -16		+53 38 -16		+51 4 -16		+54 4 -16	
2 374	8.9706	10 442	8.9571	16 23	8.9168	19 02	8.9807
307	8.1539	381	8.6965	3.9	8.8630	3.7	8.9315
0 507 0	9.0599	346 9	9.0511	536 14	9.0258	16 432 17	9.0662
563		34.3		590		485	
0.1		450		5.0		540	
84	0.0785	145	0.0993	304	0.1526	162	0.0660
	71245 85	180	76536 90	306	44498 70	308	79115
	42138		77476	330	78888		79977
	9.0599		9.0506	362	9.0246		9.0646
0 1671	144	289	276	147	247	174	
55.70 1	2.88	3963 9	1098	59.20 14	3264	48.23 14	23.48
+7.18 +2	13.11	+3135 +2	1310	+33.74 +2	13.09	+35.25 +2	1309
	.18		.18		.16		.19
+2 1299	-.28	+2 1298	-.27	+2 1298	-.25	+2 1297	-.28
	.02		.03		.02		.03
-10.78	3 1584	-1132	11 2396	-1279	16 4592	-1048	19 3645
-243	-280	-882	-287	-1305	-272	-1530	-295
3 13.07	00000	11 2109	9.9995	16 1800	9.9988	19 3350	9.9984
	9.9107		9.9060		9.8910		9.9138
	8.1539		8.6965		8.8630		8.9315
	9.9107		9.9055		9.8898		9.9122
+ 11.69	976395	+ 11.19	977302	+ 7.84	979825	+ 11.98	975787
34 391	6.5612	25 144	1.49624	59 440	1.52815	59 588	1.54716
451	0.74787	298	1.39706	82	1.45420	143	1.43283
742	9.4561	442	9.9987	1048	0.1652	131	0.2337
34 37.10	0.0800	25 22.10	9.9995	59 52.40	9.9988	0 6.55	9.9984
+560	0.0278	24.95 53	0.0259	+2546 51	0.0205	+2709 55	0.0275
34 4270	30 2941	25 4705	39 2451	0 2086	8.7540	0 3364	4 3876
54 48 565	-2027	5357 1.30	-2023	51 22 2749	-2012	55 22 1471	-2025
-17 47.93	30 8.14	-17 47.93	39 4.33	-17 47.93	4 27.28	-17 47.93	4 18.51
-	.02	-	.26	-	.30	-	.31
-	.64	-	.06	-	.69	-	.71
+ 12.14	-20	+ 1132	-68	+ 8.68	-96	+ 1278	-118
+ 21	3 2.29	+ 19	11 9.77	+ 15	16 30.21	+ 22	19 23.02
-17 3624	30 6.7	-17 3674	38 55.5	-17 40.09	4 14.2	-17 35.95	4 3.2
5430 1772		5339 1337		51 4 3956		55 4 2678	
July 26 276 27	9.9972						
18 35 33	+1.177						
+54 58 -17							
25 9.7	8.9781						
572	9.0505						
32 543	9.0649						
35							
8.6							
9.3	0.0708						
	8.0286						
	8.1154						
	9.0621						
23 114	243						
380 28	3486						
-264 +2	13.09						
+31.06 +	.19						
+2 1296	-.30						
	.02						
-1058	25 4782						
-2016	-3.00						
25 4482	9.9972						
	9.9132						
	9.0505						
	9.9104						
+12.45	9.75895						
6 192	1.49220						
333	1.37895						
524							
6 26.20							
+23.93 54							
6 50.13	58 22.71						
5515 5822	-2021						
-17 47.93	58 2.53						
-	.25						
-	.20						
+ 12.68							
+ 22	2534.23						
-17 3548	57 42.4						
54 58 10.29							



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821	9.8484 July 30.4	9.8548 Aug 2.4	822	9.8563 Aug 2.4	823	9.8563 Aug 2.4	824	9.8563 Aug 2.4
0.9550	0.9550	0.9550	0.9550	0.9550	0.9550	0.9550	0.9550	
1.0648	1.0648	1.0648	1.0648	1.0648	1.0648	1.0648	1.0648	
1.2057	1.2057	1.2057	1.2057	1.2057	1.2057	1.2057	1.2057	
269.25	269.25	269.25	269.25	269.25	269.25	269.25	269.25	
July 30	July 30	July 30	July 30	July 30	July 30	July 30	July 30	
2118	2118	2118	2118	2118	2118	2118	2118	
17 37 33	17 37 33	17 37 33	17 37 33	17 37 33	17 37 33	17 37 33	17 37 33	
+50.34	+50.34	+50.34	+50.34	+50.34	+50.34	+50.34	+50.34	
-15	-15	-15	-15	-15	-15	-15	-15	
56 542	56 542	56 542	56 542	56 542	56 542	56 542	56 542	
344	344	344	344	344	344	344	344	
56 27 55	56 27 55	56 27 55	56 27 55	56 27 55	56 27 55	56 27 55	56 27 55	
445	445	445	445	445	445	445	445	
477	477	477	477	477	477	477	477	
506	506	506	506	506	506	506	506	
540	540	540	540	540	540	540	540	
569	569	569	569	569	569	569	569	
91 178	91 178	91 178	91 178	91 178	91 178	91 178	91 178	
55 50.74	55 50.74	55 50.74	55 50.74	55 50.74	55 50.74	55 50.74	55 50.74	
7028.8	7028.8	7028.8	7028.8	7028.8	7028.8	7028.8	7028.8	
9.0210	9.0210	9.0210	9.0210	9.0210	9.0210	9.0210	9.0210	
56 366	56 366	56 366	56 366	56 366	56 366	56 366	56 366	
55 24.76	55 24.76	55 24.76	55 24.76	55 24.76	55 24.76	55 24.76	55 24.76	
-42.56	-42.56	-42.56	-42.56	-42.56	-42.56	-42.56	-42.56	
+2 14.68	+2 14.68	+2 14.68	+2 14.68	+2 14.68	+2 14.68	+2 14.68	+2 14.68	
1302	1302	1302	1302	1302	1302	1302	1302	
57 39.44	57 39.44	57 39.44	57 39.44	57 39.44	57 39.44	57 39.44	57 39.44	
-2.69	-2.69	-2.69	-2.69	-2.69	-2.69	-2.69	-2.69	
57 36.75	57 36.75	57 36.75	57 36.75	57 36.75	57 36.75	57 36.75	57 36.75	
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9.8878	9.8878	9.8878	9.8878	9.8878	9.8878	9.8878	9.8878	
+7.52	+7.52	+7.52	+7.52	+7.52	+7.52	+7.52	+7.52	
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1.62900	1.62900	1.62900	1.62900	1.62900	1.62900	1.62900	1.62900	
50.7 1.55970	50.7 1.55970	50.7 1.55970	50.7 1.55970	50.7 1.55970	50.7 1.55970	50.7 1.55970	50.7 1.55970	
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31 52.25	31 52.25	31 52.25	31 52.25	31 52.25	31 52.25	31 52.25	31 52.25	
-36.28	-36.28	-36.28	-36.28	-36.28	-36.28	-36.28	-36.28	
31 1.797	31 1.797	31 1.797	31 1.797	31 1.797	31 1.797	31 1.797	31 1.797	
33 4950	33 4950	33 4950	33 4950	33 4950	33 4950	33 4950	33 4950	
50.51 30.38	50.51 30.38	50.51 30.38	50.51 30.38	50.51 30.38	50.51 30.38	50.51 30.38	50.51 30.38	
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38 28.33	38 28.33	38 28.33	38 28.33	38 28.33	38 28.33	38 28.33	38 28.33	
48	48	48	48	48	48	48	48	
25	25	25	25	25	25	25	25	
811	811	811	811	811	811	811	811	
57 29.73	57 29.73	57 29.73	57 29.73	57 29.73	57 29.73	57 29.73	57 29.73	
33 30.3	33 30.3	33 30.3	33 30.3	33 30.3	33 30.3	33 30.3	33 30.3	
17 40.88	17 40.88	17 40.88	17 40.88	17 40.88	17 40.88	17 40.88	17 40.88	
50 33 41.98	50 33 41.98	50 33 41.98	50 33 41.98	50 33 41.98	50 33 41.98	50 33 41.98	50 33 41.98	
Aug. 2 275.40	Aug. 2 275.40	Aug. 2 275.40	Aug. 2 275.40	Aug. 2 275.40	Aug. 2 275.40	Aug. 2 275.40	Aug. 2 275.40	
9.9979	9.9979	9.9979	9.9979	9.9979	9.9979	9.9979	9.9979	
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18 32 33	18 32 33	18 32 33	18 32 33	18 32 33	18 32 33	18 32 33	18 32 33	
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-10	-10	-10	-10	-10	-10	-10	-10	
21524	21524	21524	21524	21524	21524	21524	21524	
254	254	254	254	254	254	254	254	
20 138	20 138	20 138	20 138	20 138	20 138	20 138	20 138	
173	173	173	173	173	173	173	173	
346	346	346	346	346	346	346	346	
350	350	350	350	350	350	350	350	
311	311	311	311	311	311	311	311	
9.0199	9.0199	9.0199	9.0199	9.0199	9.0199	9.0199	9.0199	
124	124	124	124	124	124	124	124	
21 413	21 413	21 413	21 413	21 413	21 413	21 413	21 413	
175	175	175	175	175	175	175	175	
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484	484	484	484	484	484	484	484	
516	516	516	516	516	516	516	516	
556	556	556	556	556	556	556	556	
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7.9841	7.9841	7.9841	7.9841	7.9841	7.9841	7.9841	7.9841	
8.0758	8.0758	8.0758	8.0758	8.0758	8.0758	8.0758	8.0758	
9.0530	9.0530	9.0530	9.0530	9.0530	9.0530	9.0530	9.0530	
22 213	22 213	22 213	22 213	22 213	22 213	22 213	22 213	
22 47.10	22 47.10	22 47.10	22 47.10	22 47.10	22 47.10	22 47.10	22 47.10	
22 30.65	22 30.65	22 30.65	22 30.65	22 30.65	22 30.65	22 30.65	22 30.65	
15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	
19	19	19	19	19	19	19	19	
16	16	16	16	16	16	16	16	
141	141	141	141	141	141	141	141	
1626	1626	1626	1626	1626	1626	1626	1626	
2.867	2.867	2.867	2.867	2.867	2.867	2.867	2.867	
1125	1125	1125	1125	1125	1125	1125	1125	
20.79	20.79	20.79	20.79	20.79	20.79	20.79	20.79	
26 3430	26 3430	26 3430	26 3430	26 3430	26 3430	26 3430	26 3430	
9.9975	9.9975	9.9975	9.9975	9.9975	9.9975	9.9975	9.9975	
9.8911	9.8911	9.8911	9.8911	9.8911	9.8911	9.8911	9.8911	
9.0323	9.0323	9.0323	9.0323	9.0323	9.0323	9.0323	9.0323	
9.8886	9.8886	9.8886	9.8886	9.8886	9.8886	9.8886	9.8886	
7.7737	7.7737	7.7737	7.7737	7.7737	7.7737	7.7737	7.7737	
1.2724	1.2724	1.2724	1.2724	1.2724	1.2724	1.2724	1.2724	
1.0461	1.0461	1.0461	1.0461	1.0461	1.0461	1.0461	1.0461	
0.3345	0.3345	0.3345	0.3345	0.3345	0.3345	0.3345	0.3345	
9.9975	9.9975	9.9975	9.9975	9.9975	9.9975	9.9975	9.9975	
0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	
8.7234	8.7234	8.7234	8.7234	8.7234	8.7234	8.7234	8.7234	
5413 1292	5413 1292	5413 1292	5413 1292	5413 1292	5413 1292	5413 1292	5413 1292	
2225	2225	2225	2225	2225	2225	2225	2225	
17 4881	17 4881	17 4881	17 4881	17 4881	17 4881	17 4881	17 4881	
30	30	30	30	30	30	30	30	
53	53	53	53	53	53	53	53	
1148	1148	1148	1148	1148	1148	1148	1148	
26 23.05	26 23.05	26 23.05	26 23.05	26 23.05	26 23.05	26 23.05	26 23.05	
17 37.95	17 37.95	17 37.95	17 37.95	17 37.95	17 37.95	17 37.95	17 37.95	
54 51.9	54 51.9	54 51.9	54 51.9	54 51.9	54 51.9	54 51.9	54 51.9	
53 55 24.11	53 55 24.11	53 55 24.11	53 55 24.11	53 55 24.11	53 55 24.11	53 55 24.11	53 55 24.11	



Aug 2 272.51 9.9995				Aug 2 274 11 9.9988				Aug 2 274.54 9.9984				Aug 2 275.7 9.9983			
18 11 9 +1.254				18 16 31 +1.421				18 19 23 +1.161				18 30 12 +1.401			
+53 38 -09				+51 4 -10				+55 4 -10				+51 25 -10			
10 442				16 23				19 02				19 444			
38.1				3.9				3.7				244			
8 404 9 18				14 540 14 338				16 440 17 187				17 534 18 57			
46.5 5.0				590 270				497 174				595 9.5			
51.7 8.5				45 386				55.8 342				39 162			
82 13.0				270 0.1526				350 0.0648				198 0.1464			
15.5 7.6536				270 7.7798				350 7.9115				198 7.8728			
774 76				78888				79977				79977			
9.0506				9.0246				9.0646				9.0276			
186 428				275 19				295 411				268 140			
8 46.20 9 8.56				14 59.17 14 3038				16 49.83 17 2082				17 55.36 18 12.80			
+22.36 +2 15.38				-28.79 +2 15.38				+30.99 +2 15.38				+13.87 +2 15.38			
+2 15.41				+2 15.38				+2 15.40				+2 15.38			
-11.32 11 23.97				-12.79 16 45.76				-10.48 19 36.22				-12.61 20 28.18			
-8.82 11 21.23				-13.05 16 43.98				-15.30 19 33.40				-16.02 20 25.35			
9.9995				9.9988				9.9984				9.9983			
9.9060				9.8910				9.9138				9.8932			
8.6965				8.8630				8.9315				8.9503			
9.9055				9.8898				9.9122				9.8915			
+11.28 9.77302				+8.48 9.79825				+1303 9.75487				+8.71 9.79494			
25 208 1.34947				360 1.45924				591 1.49122				571 1.4208			
339 1.25029				501 1.38529				132 1.37689				54 1.06482			
147				861				123				1165			
25 27.95				0 43.05				0 6.15				37 58.25			
+17.79 53				0.0259				0.0205				0.0275			
25 45.14 39 2588				86025 0 18.77 4 4925				0 29.96 4 4161				38 98.6 26 5839			
53 57 3.21				51.22 27.58				55 22 18.39				51 44 38.99			
-17 4881 39 3.47				-17 4881 4 27.12				-17 4881 4 19.31				-17 4881 26 3623			
-13				-22				-25				-35			
-06				-09				-66				-39			
+7127				+864				+1271				+899			
+20 11 9.91				+15 16 30.19				+23 19 22.92				+16 20 12.74			
-17 37.53 38 54.6				-17 40.33 4 14.8				-17 36.78 4 4.0				-17 40.10 26 20.28			
53 39 1440				51 4 4077				55 4 29.58				51 26 4968			
July 30 276.56 9.9968				Aug 2 277.50 9.9957				Aug 2 277.54 9.9957				Aug 2 277.54 9.9957			
18 27 27 +1.485				18 31 47 +1.360				18 31 47 +1.360				18 31 19 +1.501			
+50 5 -15				+52 15 -10				+52 15 -10				+49 51 -10			
26 570				30 374 402				8.9353				30 492			
4.8				146				9.2345				532			
25 10 25 226				24 528 25 217				28 37.7 38 223				39 342 29 143			
44 268				573 247				419 247				375 178			
80 990				33 378				467 398				441 310			
330				31.1				430 0.1335				244 0.1764			
357 778.34				82 343				460 8.0698				99 276			
8.0985				8.0135				8.1717				8.1527			
134 451				219 396				40.63 29.64 24.88				258 57			
25 4.47 25 29.02				24 57.30 25 27.92				28 42.10 28 39.76				29 38.60 29 21.02			
+24.55 +2 14.74				+30.62 +2 15.37				+24.61 +2 15.37				-17.58 +2 15.37			
+2 14.66				+2 15.36				+2 15.38				+2 15.36			
-1336 27 43.68				-1336 27 43.28				-12.25 31 29.82				-13.52 31 36.38			
-24.69 27 40.74				-21.69 27 40.89				-24.48 31 29.77				-24.66 31 33.46			
9.9968				9.9957				9.9957				9.9957			
9.8849				9.8849				9.8849				9.8849			
9.0818				9.0818				9.0818				9.0818			
+7.12 9.80731				+7.08 9.80731				+9.39 9.78691				+7.02 9.80942			
58 254 1.39005				58 170 1.48601				48 364 1.39111				13 208 1.24502			
564 1.32516				32.0 1.42112				512 1.30582				359 1.18224			
618				490				876				567			
58 3090				58 26.50				46 43.80				13 28.35			
+21.14 50				+26.37 50				+26.22 52				-15.21 49			
58 52.04 6 15.03				58 50.87 6 15.75				29 402 16 491				13 131.9 51 53.92			
50 3 56.31				50 23.57 8				52.33 44.33				50 9 35.21			
-17 48.40 5 53.79				-17 48.81 5 53.65				-17 48.81 15 42.71				-17 48.81 51 31.32			
-16				-25				-16				-09			
-46				44				48				46			
+7.61				+7.64				+9.85				+7.44			
+13 27 27.38				+13 27 27.03				+18 31 6.42				+13 31 19.94			
-17 41.28 5 27.7				-17 41.73 5 32.0				-17 39.42 15 18.2				-17 41.79 51 6.7			
50 6 7.91				50 6 8.67				52 15 55.52				49 51 46.40			



822

1884

Aug 2	279 18	9.9942	Aug 2	279 34	9.9939	Aug 2	280 9	9.9932	Aug 2	280 12	9.9931
18 36 58	+1.493	-15.79	18 38 8	+1244	-1828	18 40 8	+1220	-1852	18 40 35	+1304	-1768
+50 5 -10			+54 12 -10			+54 34 -11			+53 18 -		
36 280	8.9019	9.2084	37 37.5	8.9658	9.2206	39 44.4	8.9722	9.2461	40 93	8.9521	9.2482
4.0	9.0169	9.0169	38 38.0	9.0568	38 38.0	464	9.0610	40 93	9.0610	40 93	9.0610
34 44.7	5.3.1	5.3.1	34 44.7	5.3.1	5.3.1	464	5.3.1	5.3.1	5.3.1	5.3.1	5.3.1
50.7	552	552	50.7	552	552	488	552	552	552	552	552
54.1	585	585	54.1	585	585	516	585	585	585	585	585
9.3	0.1741	0.1741	9.3	0.1741	0.1741	551	0.1741	0.1741	0.1741	0.1741	0.1741
295	8.1103	8.1103	295	8.1103	8.1103	572	8.1103	8.1103	8.1103	8.1103	8.1103
34 49.83	4.23	4.23	34 49.83	4.23	4.23	4.23	4.23	4.23	4.23	4.23	4.23
+8.63	+1.069	+1.069	+8.63	+1.069	+1.069	+1.069	+1.069	+1.069	+1.069	+1.069	+1.069
+2 15.37	-16	-16	+2 15.37	-16	-16	-16	-16	-16	-16	-16	-16
-13.45	37 13.83	+2973	-13.45	37 13.83	+2973	37 13.83	37 13.83	37 13.83	37 13.83	37 13.83	37 13.83
-29.07	87 10.86	9.9942	-29.07	87 10.86	9.9942	87 10.86	87 10.86	87 10.86	87 10.86	87 10.86	87 10.86
	9.8850	9.8850		9.8850	9.8850	9.8850	9.8850	9.8850	9.8850	9.8850	9.8850
	9.2084	9.2084		9.2084	9.2084	9.2084	9.2084	9.2084	9.2084	9.2084	9.2084
	9.8792	9.8792		9.8792	9.8792	9.8792	9.8792	9.8792	9.8792	9.8792	9.8792
	+7.32	9.80731	+7.32	9.80731	9.80731	9.80731	9.80731	9.80731	9.80731	9.80731	9.80731
58 119	0.87112	+1.0354	58 119	0.87112	+1.0354	0.87112	0.87112	0.87112	0.87112	0.87112	0.87112
240	0.5106	0.5106	240	0.5106	0.5106	0.5106	0.5106	0.5106	0.5106	0.5106	0.5106
189	9.9942	9.9942	189	9.9942	9.9942	9.9942	9.9942	9.9942	9.9942	9.9942	9.9942
58 19.45	0.0151	0.0151	58 19.45	0.0151	0.0151	0.0151	0.0151	0.0151	0.0151	0.0151	0.0151
+7.43	9.0934	9.0934	+7.43	9.0934	9.0934	9.0934	9.0934	9.0934	9.0934	9.0934	9.0934
58 26.88	53 28.25	11 4280	58 26.88	53 28.25	11 4280	53 28.25	53 28.25	53 28.25	53 28.25	53 28.25	53 28.25
50 24 21.47	22.10	54 29 20.10	50 24 21.47	22.10	54 29 20.10	22.10	22.10	22.10	22.10	22.10	22.10
-17 48.51	6 17.88	+2.32	-17 48.51	6 17.88	+2.32	6 17.88	6 17.88	6 17.88	6 17.88	6 17.88	6 17.88
-02	+8.92	+8.92	-02	+8.92	+8.92	+8.92	+8.92	+8.92	+8.92	+8.92	+8.92
-43	+12.77	+12.77	-43	+12.77	+12.77	+12.77	+12.77	+12.77	+12.77	+12.77	+12.77
+7.64	-191	-191	+7.64	-191	-191	-191	-191	-191	-191	-191	-191
+7.13	36 57.41	+22.10	+7.13	36 57.41	+22.10	36 57.41	36 57.41	36 57.41	36 57.41	36 57.41	36 57.41
-17 41.49	5 48.8	-17 37.30	-17 41.49	5 48.8	-17 37.30	5 48.8	5 48.8	5 48.8	5 48.8	5 48.8	5 48.8
50 6 32.66	54 11 31.29	54 11 31.29	50 6 32.66	54 11 31.29	54 11 31.29	54 11 31.29	54 11 31.29	54 11 31.29	54 11 31.29	54 11 31.29	54 11 31.29
Aug 2	284 34	9.9858	Aug 2	285 1	9.9849	Aug 2	286 24	9.9820	Aug 2	286 28	9.9818
18 57 56	+1465	-1607	18 59 51	+1262	-1810	19 5 22	+1394	-1678	19 5 34	+1434	-1638
+51 9 -11			+54 29 -12			+52 35 -12			+51 56 -12		
57 285	8.9181	9.4026	59 25.5	8.9706	9.4135	4 542	8.9407	9.4508	5 57	8.9303	9.4525
7.3	9.0266	9.0266	57 16.2	9.0599	9.0599	334	9.0406	9.0406	53.9	9.0341	9.0341
55 258 56	52.7	52.7	57 16.2	52.7	52.7	160	52.7	52.7	52.7	52.7	52.7
88.6	588	588	88.6	588	588	200	588	588	588	588	588
84.0	545	545	84.0	545	545	335	545	545	545	545	545
90	0.1658	0.1658	90	0.1658	0.1658	360	0.1658	0.1658	360	0.1658	0.1658
284	462	462	284	462	462	345	462	462	345	462	462
55 29.47	55 59.24	55 59.24	55 29.47	55 59.24	55 59.24	219	55 59.24	55 59.24	182	55 59.24	55 59.24
+29.77	+12 15.36	+10.49	+29.77	+12 15.36	+10.49	7.30	+12 15.36	+10.49	26.07	+12 15.36	+10.49
+2 15.36	-1.17	+330	+2 15.36	-1.17	+330	-1.17	+330	+330	-50.29	+2 15.36	+10.49
-13.18	58 14.60	+3.152	-13.18	58 14.60	+3.152	58 14.60	58 14.60	58 14.60	58 14.60	58 14.60	58 14.60
-45.18	58 11.45	9.9858	-45.18	58 11.45	9.9858	58 11.45	58 11.45	58 11.45	58 11.45	58 11.45	58 11.45
	9.8915	9.8915		9.8915	9.8915	9.8915	9.8915	9.8915	9.8915	9.8915	9.8915
	9.4086	9.4086		9.4086	9.4086	9.4086	9.4086	9.4086	9.4086	9.4086	9.4086
	9.8773	9.8773		9.8773	9.8773	9.8773	9.8773	9.8773	9.8773	9.8773	9.8773
	+8.09	9.79746	+8.09	9.79746	9.79746	9.79746	9.79746	9.79746	9.79746	9.79746	9.79746
54 194	1.47378	1.47378	54 194	1.47378	1.47378	1.47378	1.47378	1.47378	1.47378	1.47378	1.47378
349	1.39904	1.39904	349	1.39904	1.39904	1.39904	1.39904	1.39904	1.39904	1.39904	1.39904
543	0.7028	0.7028	543	0.7028	0.7028	0.7028	0.7028	0.7028	0.7028	0.7028	0.7028
54 27.15	9.7858	9.7858	54 27.15	9.7858	9.7858	9.7858	9.7858	9.7858	9.7858	9.7858	9.7858
+15.07	51	0.0211	+15.07	51	0.0211	51	0.0211	0.0211	51	0.0211	0.0211
54 52.22	10 15.41	9.2921	54 52.22	10 15.41	9.2921	10 15.41	10 15.41	10 15.41	10 15.41	10 15.41	10 15.41
51 27 56.13	-2199	+361	51 27 56.13	-2199	+361	-2199	-2199	-2199	-2199	-2199	-2199
-17 48.51	9 33.42	+8.95	-17 48.51	9 33.42	+8.95	9 33.42	9 33.42	9 33.42	9 33.42	9 33.42	9 33.42
-24	+12.65	+12.65	-24	+12.65	+12.65	+12.65	+12.65	+12.65	+12.65	+12.65	+12.65
-57	-362	-362	-57	-362	-362	-362	-362	-362	-362	-362	-362
+8.75	+21.99	+21.99	+8.75	+21.99	+21.99	+21.99	+21.99	+21.99	+21.99	+21.99	+21.99
+15	57 58.27	57 58.27	+15	57 58.27	57 58.27	57 58.27	57 58.27	57 58.27	57 58.27	57 58.27	57 58.27
-17 40.72	9 8.2	-17 38.28	-17 40.72	9 8.2	-17 38.28	9 8.2	9 8.2	9 8.2	9 8.2	9 8.2	9 8.2
51 10 7.32	54 29 34.03	54 29 34.03	51 10 7.32	54 29 34.03	54 29 34.03	54 29 34.03	54 29 34.03	54 29 34.03	54 29 34.03	54 29 34.03	54 29 34.03



822										86									
Aug 2 282 41 9.9893					Aug 2 283 58 9.9670					Aug 2 284 0 9.9867					Aug 3 284 0 9.9867				
18 50 29 +1226	2769	-1846	8.9747	9.3416	18 55 36 +1354	2479	-1718	8.9457	9.3827	+1355	2479	-1717	8.9457	9.3837	18 55 45 +1431	2283	-1641	8.9261	9.3837
+5444 -11	55 86	538	9.0626	0.0885	+52 53 -11	55 86	538	9.0438	0.1316	-11	55 163	38.7	8.9457	9.3837	+51 40 -11	55 163	38.7	8.9261	9.3837
48 50 29 48 496	586	533	0.0885	8.3163	52 54 53 34	65	100	9.0438	0.1316	53 93	183	+	8.9457	9.3837	53 53 53 54 62	93	1	8.9261	9.3837
50 4.8 426	50	570	8.3163	8.4042	52 54 53 34	65	100	9.0438	0.1316	53 93	183	+	8.9457	9.3837	53 53 53 54 62	93	1	8.9261	9.3837
9.5	238	-2858	8.4042	9.0519	52 54 53 34	65	100	9.0438	0.1316	53 93	183	+	8.9457	9.3837	53 53 53 54 62	93	1	8.9261	9.3837
48 57.93 48 56.76	238	-2858	8.4042	9.0519	52 54 53 34	65	100	9.0438	0.1316	53 93	183	+	8.9457	9.3837	53 53 53 54 62	93	1	8.9261	9.3837
-29.77 48 28.16	238	-2858	8.4042	9.0519	52 54 53 34	65	100	9.0438	0.1316	53 93	183	+	8.9457	9.3837	53 53 53 54 62	93	1	8.9261	9.3837
42 15.36	238	-2858	8.4042	9.0519	52 54 53 34	65	100	9.0438	0.1316	53 93	183	+	8.9457	9.3837	53 53 53 54 62	93	1	8.9261	9.3837
-1104	238	-2858	8.4042	9.0519	52 54 53 34	65	100	9.0438	0.1316	53 93	183	+	8.9457	9.3837	53 53 53 54 62	93	1	8.9261	9.3837
-39.51	238	-2858	8.4042	9.0519	52 54 53 34	65	100	9.0438	0.1316	53 93	183	+	8.9457	9.3837	53 53 53 54 62	93	1	8.9261	9.3837
30 240	238	-2858	8.4042	9.0519	52 54 53 34	65	100	9.0438	0.1316	53 93	183	+	8.9457	9.3837	53 53 53 54 62	93	1	8.9261	9.3837
368	238	-2858	8.4042	9.0519	52 54 53 34	65	100	9.0438	0.1316	53 93	183	+	8.9457	9.3837	53 53 53 54 62	93	1	8.9261	9.3837
20 30.40	238	-2858	8.4042	9.0519	52 54 53 34	65	100	9.0438	0.1316	53 93	183	+	8.9457	9.3837	53 53 53 54 62	93	1	8.9261	9.3837
-23.07 54	238	-2858	8.4042	9.0519	52 54 53 34	65	100	9.0438	0.1316	53 93	183	+	8.9457	9.3837	53 53 53 54 62	93	1	8.9261	9.3837
20 73.3 45 451	238	-2858	8.4042	9.0519	52 54 53 34	65	100	9.0438	0.1316	53 93	183	+	8.9457	9.3837	53 53 53 54 62	93	1	8.9261	9.3837
55 2 41.02	238	-2858	8.4042	9.0519	52 54 53 34	65	100	9.0438	0.1316	53 93	183	+	8.9457	9.3837	53 53 53 54 62	93	1	8.9261	9.3837
-17 48.81 44 42.88	238	-2858	8.4042	9.0519	52 54 53 34	65	100	9.0438	0.1316	53 93	183	+	8.9457	9.3837	53 53 53 54 62	93	1	8.9261	9.3837
-23	238	-2858	8.4042	9.0519	52 54 53 34	65	100	9.0438	0.1316	53 93	183	+	8.9457	9.3837	53 53 53 54 62	93	1	8.9261	9.3837
-06	238	-2858	8.4042	9.0519	52 54 53 34	65	100	9.0438	0.1316	53 93	183	+	8.9457	9.3837	53 53 53 54 62	93	1	8.9261	9.3837
+12.37 50	238	-2858	8.4042	9.0519	52 54 53 34	65	100	9.0438	0.1316	53 93	183	+	8.9457	9.3837	53 53 53 54 62	93	1	8.9261	9.3837
+22	238	-2858	8.4042	9.0519	52 54 53 34	65	100	9.0438	0.1316	53 93	183	+	8.9457	9.3837	53 53 53 54 62	93	1	8.9261	9.3837
-17 36.51 44 2.9	238	-2858	8.4042	9.0519	52 54 53 34	65	100	9.0438	0.1316	53 93	183	+	8.9457	9.3837	53 53 53 54 62	93	1	8.9261	9.3837
54 44 52.21	238	-2858	8.4042	9.0519	52 54 53 34	65	100	9.0438	0.1316	53 93	183	+	8.9457	9.3837	53 53 53 54 62	93	1	8.9261	9.3837
Aug 2 286 42 9.9813					Aug 2 287 3 9.9845					Aug 2 287 3 9.9845					Aug 2 287 12 9.9841				
19 5 48 +1333	2590	-1739	8.9568	9.4584	19 7 54 +1483	2590	-1739	8.9568	9.4584	19 7 56 +1339	2590	-1733	8.9560	9.4572	19 8 34 +1248	2809	-1824	8.9787	9.4709
+53 36 -12	8.9568	9.4584	9.0529	0.1248	+54 9 -12	8.9568	9.4584	9.0529	0.1248	+53 34 -12	8.9560	9.4572	8.9560	9.4572	+54 59 -12	8.9787	9.4709	8.9787	9.4709
5 18 4 554	8.9568	9.4584	9.0529	0.1248	5 34 0 5 234	8.9568	9.4584	9.0529	0.1248	5 34 0 5 234	8.9560	9.4572	8.9560	9.4572	5 34 0 5 234	8.9787	9.4709	8.9787	9.4709
50 591	8.9568	9.4584	9.0529	0.1248	5 34 0 5 234	8.9568	9.4584	9.0529	0.1248	5 34 0 5 234	8.9560	9.4572	8.9560	9.4572	5 34 0 5 234	8.9787	9.4709	8.9787	9.4709
104 36	8.9568	9.4584	9.0529	0.1248	5 34 0 5 234	8.9568	9.4584	9.0529	0.1248	5 34 0 5 234	8.9560	9.4572	8.9560	9.4572	5 34 0 5 234	8.9787	9.4709	8.9787	9.4709
60 95	8.9568	9.4584	9.0529	0.1248	5 34 0 5 234	8.9568	9.4584	9.0529	0.1248	5 34 0 5 234	8.9560	9.4572	8.9560	9.4572	5 34 0 5 234	8.9787	9.4709	8.9787	9.4709
-27.80 126	8.9568	9.4584	9.0529	0.1248	5 34 0 5 234	8.9568	9.4584	9.0529	0.1248	5 34 0 5 234	8.9560	9.4572	8.9560	9.4572	5 34 0 5 234	8.9787	9.4709	8.9787	9.4709
5 5.57 5 2.52	8.9568	9.4584	9.0529	0.1248	5 34 0 5 234	8.9568	9.4584	9.0529	0.1248	5 34 0 5 234	8.9560	9.4572	8.9560	9.4572	5 34 0 5 234	8.9787	9.4709	8.9787	9.4709
-30.85 4 34.72	8.9568	9.4584	9.0529	0.1248	5 34 0 5 234	8.9568	9.4584	9.0529	0.1248	5 34 0 5 234	8.9560	9.4572	8.9560	9.4572	5 34 0 5 234	8.9787	9.4709	8.9787	9.4709
+2 15.33	8.9568	9.4584	9.0529	0.1248	5 34 0 5 234	8.9568	9.4584	9.0529	0.1248	5 34 0 5 234	8.9560	9.4572	8.9560	9.4572	5 34 0 5 234	8.9787	9.4709	8.9787	9.4709
-1201	8.9568	9.4584	9.0529	0.1248	5 34 0 5 234	8.9568	9.4584	9.0529	0.1248	5 34 0 5 234	8.9560	9.4572	8.9560	9.4572	5 34 0 5 234	8.9787	9.4709	8.9787	9.4709
-51.75	8.9568	9.4584	9.0529	0.1248	5 34 0 5 234	8.9568	9.4584	9.0529	0.1248	5 34 0 5 234	8.9560	9.4572	8.9560	9.4572	5 34 0 5 234	8.9787	9.4709	8.9787	9.4709
Aug 2 286 42 9.9813					Aug 2 287 3 9.9845					Aug 2 287 3 9.9845					Aug 2 287 12 9.9841				
7 9.059	9.4584	9.8872	7.7713	+8.25	7 9.059	9.4584	9.8872	7.7713	+8.25	7 9.059	9.4584	9.8872	7.7713	+8.25	7 9.059	9.4584	9.8872	7.7713	+8.25
27 294 1.48926	9.4584	9.8872	7.7713	+8.25	27 294 1.48926	9.4584	9.8872	7.7713	+8.25	27 294 1.48926	9.4584	9.8872	7.7713	+8.25	27 294 1.48926	9.4584	9.8872	7.7713	+8.25
432 1.39042	9.4584	9.8872	7.7713	+8.25	432 1.39042	9.4584	9.8872	7.7713	+8.25	432 1.39042	9.4584	9.8872	7.7713	+8.25	432 1.39042	9.4584	9.8872	7.7713	+8.25
726	9.4584	9.8872	7.7713	+8.25	726	9.4584	9.8872	7.7713	+8.25	726	9.4584	9.8872	7.7713	+8.25	726	9.4584	9.8872	7.7713	+8.25
27 36.30	9.4584	9.8872	7.7713	+8.25	27 36.30	9.4584	9.8872	7.7713	+8.25	27 36.30	9.4584	9.8872	7.7713	+8.25	27 36.30	9.4584	9.8872	7.7713	+8.25
-24.57 53	9.4584	9.8872	7.7713	+8.25	-24.57 53	9.4584	9.8872	7.7713	+8.25	-24.57 53	9.4584	9.8872	7.7713	+8.25	-24.57 53	9.4584	9.8872	7.7713	+8.25
27 11.73 37 586	9.4584	9.8872	7.7713	+8.25	27 11.73 37 586	9.4584	9.8872	7.7713	+8.25	27 11.73 37 586	9.4584	9.8872	7.7713	+8.25	27 11.73 37 586	9.4584	9.8872	7.7713	+8.25
53 55 36.62	9.4584	9.8872	7.7713	+8.25	53 55 36.62	9.4584	9.8872	7.7713	+8.25	53 55 36.62	9.4584	9.8872	7.7713	+8.25	53 55 36.62	9.4584	9.8872	7.7713	+8.25
-17 48.81 37 36.70	9.4584	9.8872	7.7713	+8.25	-17 48.81 37 36.70	9.4584	9.8872	7.7713	+8.25	-17 48.81 37 36.70	9.4584	9.8872	7.7713	+8.25	-17 48.81 37 36.70	9.4584	9.8872	7.7713	+8.25
-25	9.4584	9.8872	7.7713	+8.25	-25	9.4584	9.8872	7.7713	+8.25	-25	9.4584	9.8872	7.7713	+8.25	-25	9.4584	9.8872	7.7713	+8.25
-34	9.4584	9.8872	7.7713	+8.25	-34	9.4584	9.8872	7.7713	+8.25	-34	9.4584	9.8872	7.7713	+8.25	-34	9.4584	9.8872	7.7713	+8.25
+11.19	9.4584	9.8872	7.7713	+8.25	+11.19	9.4584	9.8872	7.7713	+8.25	+11.19	9.4584	9.8872	7.7713	+8.25	+11.19	9.4584	9.8872	7.7713	+8.25
+20 6 34.79	9.4584	9.8872	7.7713	+8.25	+20 6 34.79	9.4584	9.8872	7.7713	+8.25	+20 6 34.79	9.4584	9.8872	7.7713	+8.25	+20 6 34.79	9.4584	9.8872	7.7713	+8.25
-17 38.01 37 45.0	9.4584	9.8872	7.7713	+8.25	-17 38.01 37 45.0	9.4584	9.8872	7.7713	+8.25	-17 38.01 37 45.0	9.4584	9.8872	7.7713	+8.25	-17 38.01 37 45.0	9.4584	9.8872	7.7713	+8.25
53 37 47.81 36	9.4584	9.8872	7.7713	+8.25	53 37 47.81 36	9.4584	9.8872	7.7713	+8.25	53 37 47.81 36	9.4584	9.8872	7.7713	+8.25	53 37 47.81 36	9.4584	9.8872	7.7713	+8.25



822

Aug. 2	287 42	9.9789	Aug. 2	288 9	9.9778	Aug. 2	288 41	9.9765	Aug. 2	288 55	9.9759				
19 10 35	+1.334	26.17	19 12 22	+1.324	26.48	19 14 26	+1.501	2.198	19 15 23	+1.529	2.262				
+5.345	-12	1.738	+5.354	-12	1.745	+5.17	-12	-1.571	+5.038	-12	-1.543				
10.82		8.9589			8.9618			8.9176			8.9104				
434		9.4829			9.4935			9.5056			9.5108				
56.7	8	9.0523	9	46.6	10	15.0	11	9.0263	12	46.4	12	5.32			
82		5.10		18.8		5.65		3.10		48.3		5.52			
82		5.62		3.22		3.70		3.40		50.3		5.86			
93		0.1252		26.3		0.1229		0.05		54.2		1.6			
		8.4418	88	28.8		8.4553	72	8.4332	8	56.3		28			
		8.5352				8.5477		8.5319							
		9.0312				9.0320		9.0028							
8	2.70	8	32.74	9	51.27	10	22.02	11	57.83	12	27.30	12	51.10		
+3.004	+2	15.34	+9.55	+3.075	+2	15.34	+9.50	+2.947	+2	15.34	+1.074	+3.339	13	58.48	
			+2.50				+2.58				+2.40		14	24.49	
+2	15.33	-	+4.23	+2	15.32	-	+4.35	+2	15.32	-	+4.20	+2	15.30	-	19
			+1.655				+1.658				+1.550				10.3
-12.01	10	48.07	+3.283	12	37.34	-	+3.301	14	42.62		+3.284	15	39.79		+1.532
-54.72	10	44.79	9.9789	12	34.04	-	9.9778	14	39.84		9.9765	15	36.50		+3.286
			9.9067				9.9077				9.8913				9.9759
			9.4829				9.4935				9.5056				9.8884
			9.8856				9.8855				9.8678				9.5108
+10.90	9.77181	+7.684	+11.09	9.77026	+7.683	+8.42	9.7778	+7.749	9.80228	+7.749	9.80228	+7.749	9.80228	+7.749	9.8643
18	4.42	1.38431	+1.0248	18	4.42	1.38591	+1.0236	18	4.42	1.38591	+1.0236	18	4.42	1.38591	+1.0236
4.82	1.38431	11.23	0.7851	4.82	1.38431	11.23	0.7851	4.82	1.38431	11.23	0.7851	4.82	1.38431	11.23	0.7851
18	41.20	+24.23	53	18	41.20	+24.23	53	18	41.20	+24.23	53	18	41.20	+24.23	53
54.3	42.92	-21.83	54.3	42.92	-21.83	54.3	42.92	-21.83	54.3	42.92	-21.83	54.3	42.92	-21.83	54.3
-17	48.81	45	43.18	-17	48.81	45	43.18	-17	48.81	45	43.18	-17	48.81	45	43.18
-	23		+4.86	-	23		+4.86	-	23		+4.86	-	23		+4.86
-	48		+8.61	-	48		+8.61	-	48		+8.61	-	48		+8.61
+11.40			+12.64	+11.40			+12.64	+11.40			+12.64	+11.40			+12.64
+21	10	32.78	+21.83	+21	10	32.78	+21.83	+21	10	32.78	+21.83	+21	10	32.78	+21.83
-17	37.91	44	48.5	-17	37.91	44	48.5	-17	37.91	44	48.5	-17	37.91	44	48.5
53	45	54.11	53	45	54.11	53	45	54.11	53	45	54.11	53	45	54.11	53
Aug. 2	289 53	9.9733	Aug. 2	290 8	9.9726	Aug. 2	290 9	9.9726	Aug. 2	290 34	9.9714				
19 19 15	+1.469	-1.603	23.17	19 20 17	+1.445	-1.627	23.88	19 20 18	+1.402	-1.669	19 22 2	+1.339			
+5.153	-12	18.460	8.9295	+5.219	-12	19.477	8.9366	+5.219	-12	21.357	+5.219	-12			
50.7		9.5316	9.5316	50.7		9.5316	9.5316	50.7		9.5316	9.5316	50.7		9.5316	9.5316
16	46.2	17	10.4	16	46.2	17	10.4	16	46.2	17	10.4	16	46.2	17	10.4
50.3		135	9.0336	50.3		135	9.0336	50.3		135	9.0336	50.3		135	9.0336
56.1		17.1	0.1670	56.1		17.1	0.1670	56.1		17.1	0.1670	56.1		17.1	0.1670
70		20.1	8.4611	70		20.1	8.4611	70		20.1	8.4611	70		20.1	8.4611
		3.85	8.5652			3.85	8.5652			3.85	8.5652			3.85	8.5652
16	346	9.0069	16	346	9.0069	16	346	9.0069	16	346	9.0069	16	346	9.0069	16
50.53	17	16.92	17	43.93	17	43.93	17	43.93	17	43.93	17	43.93	17	43.93	17
+2.639	+2	15.34	+1.051	+2.639	+2	15.34	+1.051	+2.639	+2	15.34	+1.051	+2.639	+2	15.34	+1.051
			+2.69				+2.69				+2.69				+2.69
+2	15.32	-	+4.53	+2	15.30	-	+4.63	+2	15.32	-	+4.71	+2	15.30	-	+4.81
			+1.565				+1.578				+1.604				+1.617
-13.22	19	32.24	+3.330	-13.01	20	32.85	+3.344	-12.64	20	34.96	+3.355	-12.06	22	17.72	+3.387
-1.129	19	33.33	9.9733	-1.201	20	33.34	9.9726	-1.201	20	33.34	9.9726	-1.201	20	33.34	9.9726
			9.8959				9.8986				9.9026				9.9089
			9.5316				9.5368				9.5372				9.5457
			9.8692				9.8712				9.8752				9.8803
+9.37	9.79047	+7.400	+9.31	9.78625	+7.434	+10.43	9.77930	+7.434	9.77930	+7.434	9.77930	+7.434	9.77930	+7.434	9.77930
10	3.33	1.421.44	-2.677	4.3	2.01	1.52673	2.650	2	37.2	9.27875	2.608	54	46.9		2.540
46.7	1.33971	+1.0077	54.2	1.44078	+1.0084	40.2	9.18585	+1.0110	40.2	9.18585	+1.0110	40.2	9.18585	+1.0110	40.2
80.0		0.8338	143		0.8390	6.74		0.8394	6.74		0.8394	6.74		0.8394	6.74
10	40.00	9.9733	43	47.15	9.9726	2	33.70	9.9726	2	33.70	9.9726	2	33.70	9.9726	2
+21.88	51	0.0033	+27.59	52	0.0036	-0.15	53	0.0048	-0.15	53	0.0048	-0.15	53	0.0048	-0.15
11	1.86	54	705	11	1.86	54	705	11	1.86	54	705	11	1.86	54	705
52	11	46.99	52	38	33.61	20	59.11	52	38	33.61	20	59.11	52	38	33.61
-17	48.81	53	43.36	-17	48.81	20	32.44	-17	48.81	20	32.44	-17	48.81	20	32.44
-	18		+4.88	-	18		+4.94	-	18		+4.95	-	18		+4.95
-	09		+8.50	-	09		+8.49	-	09		+8.49	-	09		+8.49
+9.47			+12.43	+9.47			+12.44	+9.47			+12.47	+9.47			+12.47
			-4.12				-4.20				-4.24				-4.24
+19	19	15.69	+21.69	+19	19	15.69	+21.67	+19	19	15.69	+21.67	+19	19	15.69	+21.67
-17	39.44	52	44.1	-17	39.50	19	30.4	-17	39.38	1	12.7	-17	39.38	1	12.7
51	53	57.68	51	53	57.68	51	53	57.68	51	53	57.68	51	53	57.68	51



822									88
Aug 2 289 3	9.9755	Aug 2 289 13	9.9751	Aug 2 289 23	9.9747	Aug 2 289 40	9.9735		
19 15 58 +1491	.22 34	19 16 34 +1541	.2105	19 17 16 +1562	2043	19 18 23 +1491	.2253		
+51 20 -12	-1581	+50 38 -12	-1531	+50 6 -12	-1570	+51 27 -12	-1581		
15 236	8.9212	16 33	8.9078	16 445	8.9021	17 533	8.9228		
182	9.5137	264	9.5174	42	9.5210	249	9.5270		
13 224 13 494	9.0285	14 140 14 297	9.0204	14 550 15 114	9.0170	15 574 16 182	9.0294		
566 585		195 380		590 145		555 317			
31.8 558		236 364		175 110		330 382			
88 24	0.1735	84 438	0.1878	70 343	0.1937	91 316	0.1735		
	8.4349		8.4252		8.4231		8.4498		
	8.5422		8.5378		8.5380		8.5564		
	9.0040		8.9955		8.9917		9.0033		
13 2677 13 5578		14 1870 14 3628		14 5940 15 1780		15 5583 16 2494			
+19.01 +2 1534	+1067	+17.58 +2 1534	+1103	+18.40 +2 1534	+1118	+29.11 +2 1534	+1067		
+2 1532	+246	+2 1530	+1241	+2 1531	+240	+2 1531	+246		
	+430		+425		+426		+430		
	+1555		+1524		+1511		+1552		
	+3298		+3293		+3295		+3318		
-13.43	16 1110	-13.87	16 5158	-14.07	17 3311	-13.42	18 4025		
-58.77	-3.30	-59.31	-3.29	-59.76	-3.30	-10.66	-3.32		
	16 7.80		16 4829		17 2481		18 3693		
	9.9755		9.9751		9.9747		9.9735		
	9.8927		9.8874		9.8851		9.8933		
	9.5137		9.5174		9.5210		9.5270		
	9.8682		9.8625		9.8598		9.8642		
+8.50	9.79573	+8.07	9.80382	+7.41	9.80716	+8.80	9.79463		
4.2 573	1.46255	3.5 151	1.24502	5.7 6.1	1.26482	3.6 148	1.46804		
	1.38608		1.17664		1.19978		1.38647		
	+0.090		+0.095		+0.022		+0.067		
	0.8159		0.8196		0.8232		0.8292		
	9.9755		9.9751		9.9747		9.9735		
	0.8039		0.8019		0.8010		0.8029		
	9.4064		9.4048		9.4061		9.4203		
43 4.65		35 19.05		57 13.95		36 21.90			
24.33 51		+150250		15.84 50		+24.35 51			
5139 1937	-21.75	5047 1428	-21.74	5025 18.56	-21.73	5146 21.0	-21.72		
-17 4881	21 17.31	-17 4881	29 11.80	-17 4881	7 15.43	-17 4881	28 0.37		
	+4.68		+4.72		+4.76		+4.83		
	+8.55		+8.54		+8.53		+8.52		
	+12.45		+12.39		+12.36		+12.92		
	-3.93		-3.91		-3.92		-4.05		
	+21.75		+21.74		+21.73		+21.72		
	+16 54.37		+16 34.42		+17 15.74		+18 23.51		
-17 40.31	20 18.5	-17 40.74	28 12.5	-17 41.40	6 15.7	-17 40.01	26 59.7		
51 21 30.56		50 29 25.47		50 7 29.75		51 28 13.29			
Aug 2 290 41	9.9711	Aug 2 291 6	9.9699	Aug 2 291 5	9.9699	Aug 2 291 18	9.9693		
19 22 29 +1329	.2702	19 24 3	.2048	19 24 6	.2814	19 24 56	.2482		
+54 18 -13	-1743	+50 8 -13	-1495	+1288	-1784	+1422	-1650		
22 26	8.9680	23 31.5	8.9026	23 397	8.9772	24 280	8.9460		
15.7	9.5480	6.3	9.5563	54 59.3	9.5560	523	9.5602		
30 236 30 230	9.0582	31 285 21 290	9.0173	32 283 22 57.6	9.0654	33 177 32 510	9.0439		
308 364		356 422		333 422		346 420			
354 299		387 453		405 45		390 474			
	0.1235		0.1978		0.1099		0.1529		
88 370	8.5160	86 367	8.4589	92 130	8.5352	90 43	8.5062		
	8.6062		8.5736		8.6217		8.6041		
	9.0293		8.9872		9.0356		9.0132		
20 2993 20 2926		21 28.27 21 45.30		22 34.00 22 4.68		23 23.77 22 57.50			
+0.03 +2 1534	+951	+42.77 +2 1534	+1129	-2932 +2 1534	+922	-26.27 +2 1534	+1018		
+2 1531	+297	+2 1529	+260	+2 1530	+310	+2 1529	+290		
	+498		+462		+516		+496		
	+1648		+1496		+1672		+1588		
-11.97	22 4527	24 2633	+3.384	24 1998	+3.920	25 1249	+3392		
-1363	-3.89	-3.35	9.9699	-14.80	-3.42	-239	9.9693		
	22 41.88	24 2298	9.8853		24 1636	25 9.40	9.9021		
	9.9098		9.8563				9.8602		
	9.5480		9.7852				9.8714		
	9.8809		9.7165				9.6041		
+1205	9.76607	+6.82	9.80686	+12.27	9.75823	+7.98	9.78030		
45 342 847712	2.529	44 221 1.63114	2.779	44 564 1.46716	2.487	43 531 1.41946	2.614		
	1.0130		9.9944		1.0132		1.0051		
460 8.37099	8.8002	375 1.56580	0.8585	104 1.35319	0.8582	68 1.32756	0.8624		
45 40.10	9.9711	54 29.80	9.9699	3 3.40	9.9699	8 59.45	9.9693		
+0.254	0.0056	+36.80 50	9.9976	-2255.55	0.0057	-21.2652	0.0022		
45 40.12 19 314	9.4578	55- 660 9 5976	9.4416	2 4085 2 3096	9.4695	8 38.69 56 3083	9.4623		
54 37 8.23		53 27 41.75		55 20 7.50		53 14 9.66			
-17 4881	19 9.87	-17 4881	9 3814	-17 4881	2 9.40	-17 4881	56 9.26		
	+507		+5.17		+5.16		+5.21		
	+846		+8.44		+8.44		+8.43		
	+1249		+1227		+1250		+1240		
	-442		-426		-454		-447		
	+2160		+2162		+2156		+2157		



622											
Aug 2	291 32	9.9686	Aug 2	291 37	9.9683	Aug 2	291 59	9.9672	Aug 2	292 4	9.9670
19 28 80	+1509	-1.563	19 26 12	+1.485	-1.587	19 27 38	+1429	-1.643	19 28 1	+1592	-1.480
+51 28	-13	8.9233	+51 53	-13	8.9298	+52 57	-13	8.9463	+50 2	-13	8.9011
25 20.1		9.5647	25 42.5		9.5663	27 9.7		9.5733	27 29.1		9.5748
26.0		9.0297	24 35.6		9.0337	25 63		9.0441	49 59.6		9.0164
24 12	23 48.8		24 33.3			26 5.9			38 4.2	25 57.0	
86	49.0		41.1	36.8		11.1			52.6	0.0	
127	53.0		45.8	40.0		164			58.8	3.0	
	55.5	0.1787		43.5	0.1717			0.1550		6.0	0.2019
95	59.0	8.9880	90	46.4	8.9961	86		8.5196	68	9.4	8.4759
		8.5944		-26.3	8.6000	25 12.20		8.6174			8.5912
22.5	113	8.9983	25	03	9.0020	25 38		9.0113		15.4	8.9834
24 7.50	23 52.26		24 40.83	24 40.66		25 11.27		25 39.79	25 52.87	26 3.08	
-15.24	+2 15.34	+1080	-27.50	+2 15.34	+1063	+28.52	+2 15.23	+1023	+1027	+2 15.33	+1139
	+19	+278		+19	+283			+299		+18	+271
+2 15.30		+485	+2 15.29		+491	+2 15.29		+511	+2 15.28		+481
	0.2	+1534		0.3	+1547		0.2	+1581		0.3	+1483
-1358	26 7.56	+3377	-13.37	26 28.6	+3384	-12.84	27 55.08	+3414	-14.34	28 18.36	+3374
-1 6.15	-338	9.9686	-1 6.33	26 25.24	9.9683	-1 7.41	27 51.67	9.9672	-1 7.68	28 14.99	9.9647
26 4.18		9.8935			9.8960			9.9022			9.8847
		9.5647			9.5663			9.5733			9.5748
		9.8621			9.8643			9.8694			9.8517
+9.11	9.79447	+7.280	+9.36	9.79047	+7.316	+10.39	9.77927	+7.403	+7.62	9.80797	+7.107
35 19.6	118.298	27.01	10 3.99	1439.33	26.76	16.8	145.575	26.13	0	58.0	100.903
330	110 52.5	+9981	48.1	135 76.0	+9992	340	136 29.2	+10016	12.3	0.94460	+9892
526		0.8669			0.8685	458		0.8755		102	0.8770
35 26.30		9.9686	10 36.50		9.9683	6 22.90		9.9672	0.1	51.0	9.9670
-12.74	51	9.9992	-22.78	51	9.9976	+23.06	52	0.0807		+8.80	9.9953
35 13.54	29 55.09	9.4582	10 13.72	54 55.18	9.4623	6 45.96	58 23.97	9.4755	1	139.0	3.5326
51 47 34.79	-21.57		52 12 34.63	-21.53		53 16 23.97	-21.50		50 21 34.45	-21.53	
-17 48.81	29 33.82	+5.27	-17 48.81	54 33.63	+5.29	-17 48.81	58 2.47	+5.37	-17 48.81	3 31.73	+5.39
	06	+841		20	+841		21	+838		03	+838
	05	+1231		08	+1232		18	+1235		14	+1220
+ 9.06		-442	+ 9.47		-447	+ 10.59		-460	+ 9.66		-4.44
+ 16	25 50.60	+21.87	+ 17	26 11.87	+21.55	+ 19	27 38.81	+21.50	+ 13	28 0.65	+21.53
-17 39.70	28 27.4		-17 39.95	59 27.3		-17 38.42	56 55.1		-17 41.19	2 24.0	
57 29 45.98			51 54 45.82			52 58 13.58			50 3 45.64		
Aug 2	293 17	9.9631	Aug 2	293 31	9.9623	Aug 2	293 33	9.9622	Aug 2	293 42	9.9617
19 33 52	+1510	-1.562	19 33 47	+1337	-1.735	19 33 50	+1519	-1.553	19 34 35	+1533	-1.539
51 48	-13	8.9285	54 44	-13	8.9747	51 41	-13	8.9267	51 38	-13	8.9233
32 22.3		9.5969	33 20.5		9.6010	33 22.5		9.6016	34 24		9.6042
30 37.5	30 48.3	9.0329	31 38.6	31 40.6	9.0626	32 38.8	32 15.3	9.0318	32 50.0	32 55.2	9.0297
41.4	57.6		40.0	44.0		33.6	18.4		51.7	58.5	
48.5	54.7		46.5	47.3		39.5	23.0		53.6	58.5	
73	57.8	0.1790		50.8	0.1261		25.3	0.1816		a-1 76	0.1855
	10	8.5254	76	54.5	8.5757	90		8.5283	88	7.2	8.5275
		8.6298			8.6636			8.6334		33 1.66	8.6339
		8.9960			9.0249			8.9940		33 26.49	8.9914
30 42.73	30 54.68		31 40.37	31 47.44		32 39.97	32 21.94		32 51.77	32 35.17	
+11.95	+2 15.33	+1081	+7.07	+2 15.33	+957	-21.64	31 55.33	+1087	+20.99	+2 15.33	+1097
	+19	+303		+21	+340		+2 15.33	+305	-16.60	+19	+305
+2 15.29		+526	+2 15.29		+568	+2 15.29		+530	+2 15.28		+531
	0.2	+1526		0.3	+1631		0.2	+1519		0.3	+1510
-13.59	33 9.97	+3.436	-12.03	34 27.3	+3.496	-13.68	34 10.62	+3.441	-13.81	34 50.53	+3.443
-1 11.19	-3.44		-1 11.91	-3.50		-1 12.00	34 7.18	9.9622	-1 12.45	34 3.44	9.9617
33 6.53	9.9631		33 59.23	9.9623				9.8948			9.8935
	9.8955			9.9120				9.6016			9.6042
	9.5969			9.6010				9.8570			9.8552
	9.8586			9.8743				9.8514			+7.165
+9.47	9.79128	+2.221	+11.97	9.76146	+2.487	+8.96	9.79240	+7.914	+9.09	9.79447	+7.01
15 14.4	10 77.37	2.681	19 43.2	654 9.42	32 46.87	32 46.87	32 21.94	2.688	35 32.2	1.22 81.1	27.01
37.4	9.9645	+9.902	56.0	0.73 8.68	59.2	59.2	1.19065	+9.882	35.4	1.14 23.8	+9.866
42.3		0.8991	19.2		0.9032	106.0		0.9038	57.6		0.9064
15 21.15		9.9631	19 49.60		9.9623	22 53.00		9.9622	35 28.80		9.9617
+9.92	51	9.9957	+5.45	54	9.9996	32 15.33	51 39.30	9.9948	-13.88	51	9.9941
15 31.07	49 37.94	9.4924	19 55.05	45 16.06	9.5130	32 37.49	42 34.01	9.4964	35 14.92	29 53.71	9.4977
52 7 17.28	-21.40		55 2 53.30	-21.32		52 0 10.86	-21.39		51 47 33.43	-21.37	
-17 48.81	49 16.34	+5.67	-17 48.81	44 55.14	+5.73	-17 48.81	42 7.18	+5.74	-17 48.81	29 32.34	+5.77
	04	+831		02	+829		10	+8.29		08	+8.28
	04	+12.21		62	+12.32		38	+12.19		06	+12.17
+ 9.38		-4.79	+ 12.39		-5.02	+ 9.28		-4.83	+ 9.07		-4.85
+ 17	32 52.94	+21.40	+ 22	33 47.20	+21.32	+ 16	33 53.50	+21.39	+ 16	34 33.20	+21.37
-1 39.34	48 5.4		-17 36.84	43 43.2		-17 39.85	40 57.6		-17 39.72	28 19.9	
51 49 28.47			54 45 4.49			51 42 22.05	41 5.9		51 29 44.62		



822								90							
Aug 2 292 31 9.9658				Aug 2 292 40 9.9651				Aug 2 292 55 9.9643				Aug 2 292 60 9.9643			
2582				2302				2688				2688			
19 29 51 +1398				19 30 30 +1504				19 31 24 +1365				19 32 19 +1365			
53 33 -13				51 46 -13				54 10 -13				53 33 -13			
29 232				29 507				30 570				8.9658			
310				934				75				9.5944			
27 345				28 50				29 347				28 462			
27 160				28 170				29 172				29 176			
342				305				302				28 483			
404				335				463				29 205			
262				365				316				29 240			
208				302				307				28 526			
8.5391				8.5139				8.5562				29 276			
8.6385				8.6185				8.6472				30 310			
9.0160				8.9977				9.0211							
+27.77				+10.77				+9.77				27 270			
121				28 307				29 189				28 270			
27 34.03				28 23.54				29 21.78				29 24.14			
27 22.86				28 15.33				29 15.33				28 49.00			
+16.60				+13.31				+16.39				29 24.14			
27 50.63				+2 15.33				+2 15.33				28 24.56			
27 15.33				+2 15.33				+2 15.33				29 15.33			
27 2.2				+2 15.28				+2 15.30				+2 15.29			
+2 15.29				+2 15.28				+2 15.30				+2 15.29			
+2 15.29				+2 15.28				+2 15.30				+2 15.29			
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+2 15.29				+2 15.28				+2 15.30				+2 15.29			
+2 15.29				+2 15.28				+2 15.3							



[illegible]



822						92		
Aug 2	295 24	9.9558	Aug 2	295 26	9.9554	Aug 2	295 36	9.9551
		.2466			.2465			.2097
19 41 26	+1478	-1594		+1478	-1594	19 42 5	+1611	-1461
53 49	-13			-13		50 27	-13	
40 520	478	8.9444	40 560	465	8.9447	41 331		8.9075
465	47.9	8.6324	465		8.6329	241		8.6356
39 588	39 418	8.0429	39 333	39 480	8.0431	40 387	40 278	8.0202
32	448		318	511		400	315	
88	480		390	546		458	347	
	517	0.1697		582	0.1697		377	0.2071
82	551	8.5768	84	14	8.5776		410	8.5431
	-2730	8.6753		-2730	8.6760		-25.91	8.6588
40 108	416	8.9987	38	233	8.9988	295	227	8.9753
39 360	39 4832		39 3127	39 5466		40 3983	40 3474	
-42.58	+2 1533	+1059	-2.91	2736	+1059	-31.20	40 8.63	+1.154
	+ 21	+585		+2 1533	+342	+2 1532	+2 1532	+309
+2 1530	- .02	+1534	+2 1527	- .03	+1534	- .02	+1534	+3.975
	41 3632	+3.519		41 4265	+3.521	42 23.91		
-1330	-3.52		-1330	-3.52		-3.48		
-11731	41 3280	9.9558	-11740	41 3913	9.9557	-11785	42 20.43	9.9551
		9.9015			9.9016			9.8873
		9.6324			9.6329			9.6356
		9.8573			9.8573			9.8429
+ 9.60	9.78130	+7.203	+10.18	9.78130	+7.203	+7.74	9.80397	+6.957
14 81	142 921	2.620	18 17	259 218	2.619	36 333	149 415	2.760
33.2	1.53831	+9.820	31.1	0.50128	+9.819	378	1.42592	+9.717
303	0.9346		483		0.9351	610		0.9378
14 15.15	9.9558	13 24.15			9.9557	36 30.50		9.9551
-34.5452	9.9921	-317.52			9.9921	-26.66	50	9.9875
40.61	51 2853	9.5339	53 9 2737	51 4878	9.5345	36 384	29 344	9.5229
53 9 774	-21.20		53 9 2737	-21.20		546 4451	-21.24	
-17 4881	51 733	+6.16	-17 4881	51 2754	+6.17	-17 4881	28 4220	+6.21
	47	+8.17		47	+8.17		26	+8.15
	58	+12.13		44	+12.13		20	+12.01
+ 1044	-526	+1044			-527	+ 806		-513
+ 19	41 19.50	+21.20	+ 19	41 25.83	+21.20	+ 14	412 5.94	+21.24
-17 39.21	49 50.0		-17 38.673	50 10.1		-17 41.07	27 24.4	
52 51 1893			52 51 38.56			50 28 55.70		
Aug 2	297 32	9.9478	Aug 2	297 44	9.9470	Aug 2	298 3	9.9457
		.2147			.2164			.2128
19 49 50	+1620	-1452	19 50 40	+1615	-1454	19 51 53	+1632	-1440
50 44	-14		50 54	-14		+50 39	-14	
49 150	8.9119	50 7.8	50 7.8		8.9142	51 207		8.9106
411	8.6649	51.0			8.6678	35.9		8.6723
47	30.0	47 469	48 175	48 364	9.0243	49 167	47 501	9.0221
34.0	50.1		235	395		313	531	
37.7	53.6		294	430		347	565	
80	567	0.2095	86	462	0.2082		596	0.2127
	0.1	8.5768		492	8.5820	84	30	8.5829
		8.6877			8.6921			8.6944
		8.9706			8.9713			8.9718
117	174		102	146		26	323	
47 33.90	47 53.48		48 23.10	48 42.92		49 2087	49 56.46	
+19.58	+2 1532	+1160	+29.52	+2 1532	+1157	+35.59	+2 1532	+1167
	+ .18	+341		+ .19	+345		+ .18	+346
+2 1526	- .22	+602	+2 1526	- .22	+608	+2 1526	- .22	+611
	.62	+1437		.03	+1440		.02	+1428
	50 8.74	+3.540		50 58.18	+3.550	52 1172		+3.554
-14.59	-3.54		-14.54	-3.53		-3.55		
*1 2334	50 5.20	9.9478	-123.88	50 54.63	9.9470	-124.78	52 8.17	9.9457
		9.8891			9.8900			9.8885
		9.6649			9.6678			9.6723
		9.8369			9.8370			9.8342
+ 7.88	9.80136	+6.869	+ 7.85	9.79987	+6.871	+ 7.56	9.80213	+6.826
18 50.47	29.181	27.44	9 580	1.29048	2.735	33 481	1.55183	2.747
50 1.22097	+9.613	130 1.21809			+9.606	30 1.48126		+9.575
1154	0.9671	110			0.9700	1111		0.9745
18 57.70	9.9478	10 5.50			9.9470	23 5550		9.9457
+16.6350	9.9829	+16.5250			9.9825	+8022	50	9.9811
19 14.33	45 5309	9.5540	10 22.02	54 4536	9.5578	24 2572	40 4138	9.5608
51 3 3402	-21.03		51 12 2633	-20.97		50 58 2263	-20.97	
-17 4881	45 3206	+6.64	-17 4881	54 2438	+6.68	-17 4881	40 26.41	+6.75
	11	+802		11	+802		34	+7.98
	52	+1188		66	+1187		57	+11.83
+ 8.97	-8.51	-8.51	+ 8.47		-8.56	+ 8.27		-5.59
+ 14	49 50.61	+21.03	+ 15	50 40.09	+20.79	+ 14	51 53.48	+20.97
-17 40.93	44 8.7		-17 40.986	53 0.5		-17 41.25	38 55.6	
50 45 4521			50 54 3752			50 40 3382		
Aug 2	295 52	9.9542	Aug 2	295 54	9.9542	Aug 2	295 56	9.9542
		.2028			.2028			.2028
19 43 11	+1639	-1433		+1639	-1433			-1433
53 49	-13			-13				
40 520	478	8.8948	40 560	465	8.8948			8.8948
465	47.9	8.6324	465		8.6329			8.6329
39 588	39 418	8.0429	39 333	39 480	8.0431	40 387	40 278	8.0202
32	448		318	511		400	315	
88	480		390	546		458	347	
	517	0.1697		582	0.1697		377	0.2071
82	551	8.5768	84	14	8.5776		410	8.5431
	-2730	8.6753		-2730	8.6760		-25.91	8.6588
40 108	416	8.9987	38	233	8.9988	295	227	8.9753
39 360	39 4832		39 3127	39 5466		40 3983	40 3474	
-42.58	+2 1533	+1059	-2.91	2736	+1059	-31.20	40 8.63	+1.154
	+ 21	+585		+2 1533	+342	+2 1532	+2 1532	+309
+2 1530	- .02	+1534	+2 1527	- .03	+1534	- .02	+1534	+3.975
	41 3632	+3.519		41 4265	+3.521	42 23.91		
-1330	-3.52		-1330	-3.52		-3.48		
-11731	41 3280	9.9558	-11740	41 3913	9.9557	-11785	42 20.43	9.9551
		9.9015			9.9016			9.8873
		9.6324			9.6329			9.6356
		9.8573			9.8573			9.8429
+ 9.60	9.78130	+7.203	+10.18	9.78130	+7.203	+7.74	9.80397	+6.957
14 81	142 921	2.620	18 17	259 218	2.619	36 333	149 415	2.760
33.2	1.53831	+9.820	31.1	0.50128	+9.819	378	1.42592	+9.717
303	0.9346		483		0.9351	610		0.9378
14 15.15	9.9558	13 24.15			9.9557	36 30.50		9.9551
-34.5452	9.9921	-317.52			9.9921	-26.66	50	9.9875
40.61	51 2853	9.5339	53 9 2737	51 4878	9.5345	36 384	29 344	9.5229
53 9 774	-21.20		53 9 2737	-21.20		546 4451	-21.24	
-17 4881	51 733	+6.16	-17 4881	51 2754	+6.17	-17 4881	28 4220	+6.21
	47	+8.17		47	+8.17		26	+8.15
	58	+12.13		44	+12.13		20	+12.01
+ 1044	-526	+1044			-527	+ 806		-513
+ 19	41 19.50	+21.20	+ 19	41 25.83	+21.20	+ 14	412 5.94	+21.24
-17 39.21	49 50.0		-17 38.673	50 10.1		-17 41.07	27 24.4	
52 51 1893			52 51 38.56			50 28 55.70		
Aug 2	297 32	9.9478	Aug 2	297 44	9.9470	Aug 2	298 3	9.9457
		.2147			.2164			.2128
19 49 50	+1620	-1452	19 50 40	+1615	-1454	19 51 53	+1632	-1440
50 44	-14		50 54	-14		+50 39	-14	
49 150	8.9119	50 7.8	50 7.8		8.9142	51 207		8.9106
411	8.6649	51.0			8.6678	35.9		8.6723
47	30.0	47 469	48 175	48 364	9.0243	49 167	47 501	9.0221
34.0	50.1		235	395		313	531	
37.7	53.6		294	430		347	565	
80	567	0.2095	86	462	0.2082		596	0.2127
	0.1	8.5768		492	8.5820	84	30	8.5829
		8.6877			8.6921			8.6944
		8.9706			8.9713			8.9718
117	174		102	146		26	323	
47 33.90	47 53.48		48 23.10	48 42.92		49 2087	49 56.46	
+19.58	+2 1532	+1160	+29.52	+2 1532	+1157	+35.59	+2 1532	+1167
	+ .18	+341		+ .19	+345		+ .18	+346
+2 1526	- .22	+602	+2 1526	- .22	+608	+2 1526	- .22	+611
	.62	+1437		.03	+1440		.02	+1428
	50 8.74	+3.540		50 58.18	+3.550	52 1172		+3.554
-14.59	-3.54		-14.54	-3.53		-3.55		
*1 2334	50 5.20	9.9478	-123.88	50 54.63	9.9470	-124.78	52 8.17	9.9457
		9.8891			9.8900			9.8885
		9.6649			9.6678			9.6723
		9.8369			9.8370			9.8342
+ 7.88	9.80136	+6.869	+ 7.85	9.79987	+6.871	+ 7.56	9.80213	+6.826
18 50.47	29.181	27.44	9 580	1.29048	2.735	33 481	1.55183	2.747
50 1.22097	+9.613	130 1.21809			+9.606	30 1.48126		+9.575
1154	0.9671	110			0.9700	1111		0.9745
18 57.70	9.9478	10 5.50			9.9470	23 5550		9.9457
+16.6350	9.9829	+16.5250			9.9825	+8022	50	9.9811
19 14.33	45 5309	9.5540	10 22.02	54 4536	9.5578	24 2572	40 4138	9.5608
51 3 3402	-21.03		51 12 2633	-20.97				



822

884	Aug 2	298 45	9.9429	Aug 2	298 52	9.9424	Aug 2	299 23	9.9402	Aug 2	299 39	9.9390				
19 54 42	+1549	-1523	19 55 11	+1584	-1488	19 57 16	+1600	-1472	19 58 18	+1526	-1546	19 58 18	+1526	-1546		
53 23	-14	54 114	195	53 23	-14	54 114	195	53 23	-14	54 114	195	53 23	-14	54 114	195	
57 57 6	52 384	53 380	53 76	57 57 6	52 384	53 380	53 76	57 57 6	52 384	53 380	53 76	57 57 6	52 384	53 380	53 76	
70	414	33.5	103	70	414	33.5	103	70	414	33.5	103	70	414	33.5	103	
135	447	28.1	143	135	447	28.1	143	135	447	28.1	143	135	447	28.1	143	
90	485	174	0.1900	90	485	174	0.1900	90	485	174	0.1900	90	485	174	0.1900	
520	86197	93	86197	520	86197	93	86197	520	86197	93	86197	520	86197	93	86197	
87207	8.9815	53	33.13	53	33.13	53	33.13	53	33.13	53	33.13	53	33.13	53	33.13	
248	248	205	205	248	248	205	205	248	248	205	205	248	248	205	205	
6.80	52	44.96	52	6.80	52	44.96	52	6.80	52	44.96	52	6.80	52	44.96	52	
-21.84	+2	1532	+1109	-21.84	+2	1532	+1109	-21.84	+2	1532	+1109	-21.84	+2	1532	+1109	
+2	1526	-	+377	+2	1526	-	+377	+2	1526	-	+377	+2	1526	-	+377	
-	23	+650	+2	-	23	+650	+2	-	23	+650	+2	-	23	+650	+2	
-	02	+1474	-	-	02	+1474	-	-	02	+1474	-	-	02	+1474	-	
55	022	+3610	55	55	022	+3610	55	55	022	+3610	55	55	022	+3610	55	
-3.61	-3.61	9.9422	-3.61	-3.61	-3.61	9.9422	-3.61	-3.61	-3.61	9.9422	-3.61	-3.61	-3.61	9.9422	-3.61	
54	36.61	9.8990	54	54	36.61	9.8990	54	54	36.61	9.8990	54	54	36.61	9.8990	54	
9.8990	9.8990	9.8990	9.8990	9.8990	9.8990	9.8990	9.8990	9.8990	9.8990	9.8990	9.8990	9.8990	9.8990	9.8990	9.8990	
9.6821	9.6821	9.6821	9.6821	9.6821	9.6821	9.6821	9.6821	9.6821	9.6821	9.6821	9.6821	9.6821	9.6821	9.6821	9.6821	
9.8419	9.8419	9.8419	9.8419	9.8419	9.8419	9.8419	9.8419	9.8419	9.8419	9.8419	9.8419	9.8419	9.8419	9.8419	9.8419	
+1021	978560	+6949	+1021	+1021	978560	+6949	+1021	+1021	978560	+6949	+1021	+1021	978560	+6949	+1021	
40	161	133925	40	40	161	133925	40	40	161	133925	40	40	161	133925	40	
233	125265	9.8953	233	233	125265	9.8953	233	233	125265	9.8953	233	233	125265	9.8953	233	
344	0.9843	0.9843	344	344	0.9843	0.9843	344	344	0.9843	0.9843	344	344	0.9843	0.9843	344	
1720	0.9429	17	38.15	17	38.15	0.9429	17	1720	0.9429	17	38.15	17	38.15	0.9429	17	
52	9.9820	52	9.9820	52	9.9820	52	9.9820	52	9.9820	52	9.9820	52	9.9820	52	9.9820	
5931	25	1024	5931	5931	25	1024	5931	5931	25	1024	5931	5931	25	1024	5931	
5242	4904	-2083	5242	5242	4904	-2083	5242	5242	4904	-2083	5242	5242	4904	-2083	5242	
17	4881	24	4941	17	4881	24	4941	17	4881	24	4941	17	4881	24	4941	
-	13	031	+793	-	13	031	+793	-	13	031	+793	-	13	031	+793	
-	04	+1185	-	-	04	+1185	-	-	04	+1185	-	-	04	+1185	-	
+	999	-586	+	+	999	-586	+	+	999	-586	+	+	999	-586	+	
+	19	5442.67	+2083	+	19	5442.67	+2083	+	19	5442.67	+2083	+	19	5442.67	+2083	
-17	3880	22	22.336	-17	3880	22	22.336	-17	3880	22	22.336	-17	3880	22	22.336	
52	25	023	22	52	25	023	22	52	25	023	22	52	25	023	22	
Aug 2	300 39	9.9346	Aug 2	300 43	9.9344	Aug 2	301 15	9.9319	Aug 2	301 15	9.9319	Aug 2	301 15	9.9319	Aug 2	301 15
20	2 19	+1540	20	20	2 19	+1540	20	20	2 19	+1540	20	20	2 19	+1540	20	
53	5	-14	53	53	5	-14	53	53	5	-14	53	53	5	-14	53	
1	486	22	8.9486	1	486	22	8.9486	1	486	22	8.9486	1	486	22	8.9486	
0	170	0	147	0	170	0	147	0	170	0	147	0	170	0	147	
350	180	300	313	350	180	300	313	350	180	300	313	350	180	300	313	
91	248	585	0.1875	91	248	585	0.1875	91	248	585	0.1875	91	248	585	0.1875	
120	73	8.9802	120	120	73	8.9802	120	120	73	8.9802	120	120	73	8.9802	120	
0	2400	0	2416	0	2400	0	2416	0	2400	0	2416	0	2400	0	2416	
-254	+2	1531	+1103	-254	+2	1531	+1103	-254	+2	1531	+1103	-254	+2	1531	+1103	
+	20	+410	+	+	20	+410	+	+	20	+410	+	+	20	+410	+	
+2	1526	-	+700	+2	1526	-	+700	+2	1526	-	+700	+2	1526	-	+700	
-	23	+1470	-	-	23	+1470	-	-	23	+1470	-	-	23	+1470	-	
-	02	+3683	-	-	02	+3683	-	-	02	+3683	-	-	02	+3683	-	
-13.85	2	3672	-1535	-13.85	2	3672	-1535	-13.85	2	3672	-1535	-13.85	2	3672	-1535	
-131.89	2	3304	9.9346	-131.89	2	3304	9.9346	-131.89	2	3304	9.9346	-131.89	2	3304	9.9346	
+10.50	977862	+6880	+10.50	+10.50	977862	+6880	+10.50	+10.50	977862	+6880	+10.50	+10.50	977862	+6880	+10.50	
57	545	0.40483	57	57	545	0.40483	57	57	545	0.40483	57	57	545	0.40483	57	
79	0.31125	9.9484	79	79	0.31125	9.9484	79	79	0.31125	9.9484	79	79	0.31125	9.9484	79	
58	0.20	9.9346	58	58	0.20	9.9346	58	58	0.20	9.9346	58	58	0.20	9.9346	58	
4072	7	2932	4072	4072	7	2932	4072	4072	7	2932	4072	4072	7	2932	4072	
53	25	763	-2053	53	53	25	763	-2053	53	53	25	763	-2053	53	53	
-17	4881	24	4941	-17	4881	24	4941	-17	4881	24	4941	-17	4881	24	4941	
-	04	+1185	-	-	04	+1185	-	-	04	+1185	-	-	04	+1185	-	
+	999	-586	+	+	999	-586	+	+	999	-586	+	+	999	-586	+	
+	19	5442.67	+2083	+	19	5442.67	+2083	+	19	5442.67	+2083	+	19	5442.67	+2083	
-17	3880	22	22.336	-17	3880	22	22.336	-17	3880	22	22.336	-17	3880	22	22.336	
53	7	1882	185	53	53	7	1882	185	53	53	7	1882	185	53	53	



822										94									
Aug 2 299 53 9.9380					Aug 3 299 58 9.9377					Aug 3 300 12 9.9366					Aug 2 300 22 9.9359				
19 59 13 +1531 2498					19 59 37 +1649 2157					20 0 31 +1591 2398					20 1 11 +1652 2167				
53 1 -14 8.9476					50 49 -14 59 38					53 24 -14 19 59 52					50 54 -14 0 329				
58 427 8.9476					58 427 8.9132					8.9376 19 59 52					8.9142 3				
52 578 8.9476					52 578 8.6985					9.7016 203					9.7038 2				
56 50.2 57 94 9.0449					57 51.6 57 57 9.0236					58 58.0 58 26.3 9.0386					59 35.5 59 33.8 9.0243				
56.3 127 0.2					53.5 82 1					59.3 30.5 30.5					39.6 40.3 40.3				
0.3 16.5 34					58.5 34 70					40 33.6 37.2					55.5 2.1 40.3				
19.6 40 0.1850					95 8.6450					84 0.2172					92 0.1962				
86 32.0 8.6450					95 8.6450					84 8.6117					92 8.6392				
168 310 8.7423					155 -2612 8.7221					263 180 8.7402					59 40.23 8.7281				
56 55.60 54 16.20 8.9829					57 55.17 58 3.48 8.9613					58 58.77 58 34.60 8.9752					59 30.13 59 14.66 8.9602				
+20.60 +2 15.31 +1096					-17.81 57 3.36 +1181					-25.17 +2 15.31 +1125					+14.44 +2 15.31 +1183				
+2 15.26 +.23 +.683					+2 15.24 +.22 +.652					+2 15.25 +.23 +.677					+2 15.24 +.22 +.661				
-13.78 59 31.46 +1479					-14.85 59 52.60 +1407					-14.14 0 48.85 +1453					-14.87 1 29.30 +1403				
-1 22.91 59 27.80 +3657					-1 30.00 59 48.99 +3610					-1 30.63 0 48.20 +3651					-1 31.17 1 25.88 +3622				
9.9380					9.9377					9.9366					9.9359				
9.9026					9.8896					9.8990					9.8900				
9.6974					9.6985					9.7016					9.7038				
9.8406					9.8273					9.8356					9.8259				
+6928					+6719					+6849					+6697				
1 36.2 1.31387					14 35.5 1.25066					40 10.4 1.40086					10 0.0 1.20602				
48.8 1.220 97					49.1 1.17904					33.4 1.31411					18.2 1.13363				
85.0 4.9996					84.4 1.0007					33.8 1.0038					13.2 1.0060				
42.50 9.9380					14 42.20					40 16.90					10 6.60				
+16.63 53					9.9794					-20.61 52					-13.60 50				
59.13 3 10.86					9.6000					39 56.29 25 13.22					9 53.00 55 15.07				
53 20 49.22					51 8 21.25					52 42 52.06					51 12 55.35				
-17 48.81					50 18.54					-17 48.81					-17 48.81				
11					50 18.54					24 52.59					54 54.42				
22					50 18.54					24 52.59					54 54.42				
+10.60					50 18.54					24 52.59					54 54.42				
+19 59 14.02					+20.65					+20.63					+20.63				
-17 38.36					-17 40.98					-17 38.84					-17 40.26				
53 3 0.41					50 50 82.44					52 25 32.5					50 55 6.54				
Aug 2 301 29 9.9308					Aug 2 301 36 9.9303					Aug 3 301 39 9.9301					Aug 2 302 18 9.9270				
20 5 86 +1582 2424					20 6 4 +1618 2322					20 6 17 +1662 2190					20 8 52 +1629 2322				
52 43 -14 -1470					51 54 -14 -1454					51 9 -14 -1410					51 55 -14 -1443				
5 4.9 8.9402					5 31.9 8.9300					5 4.9 8.9168					8 192 8.9300				
294 9.7179					52.6 9.7193					52.5 9.7192					51.1 9.7278				
3 216 3 9.0403					4 37.8 4 9.0339					4 55.7 4 9.0258					6 23.2 6 4.95 9.0339				
26.7 36.3 30.8					35.2 45 45					57.0 44.0 44.0					26.4 52.8 52.8				
31.7 39.6 35.2					10.9 14.5 76					58.7 41.4 41.4					31.5 56.2 56.2				
80 46.3 10.9					14.5 14.5 14.5					51.3 51.3 51.3					59.5 39 39				
190 473 0.2090					298 388 8.6493					214 4 8.6367					201 3209 8.6578				
3 26.33 39.46					4 20.24 7.6 8.7532					4 57.13 4 21.27 8.7457					6 26.70 6 52.18 8.7617				
+13.12 +2 15.31					-22.17 +2 15.31 8.9642					-26.1 +2 15.31 8.9559					+29.48 +2 15.31 8.9609				
27 +20					23.51 +19 +1159					-33.86 +19 +392					+2				
+2 15.26					+2 15.24					+2 15.26					+2 15.24				
-14.24 5 54.72					-14.56 6 23.00					-14.97 6 36.53					-14.65 9 11.42				
-1 34.14 5 57.8					-1 34.41 6 19.2					-1 34.59 6 22.87					-1 34.30 9 7.72				
9.9308					9.9303					9.9301					9.9270				
9.9000					9.8961					9.8910					9.8961				
9.7179					9.7193					9.7199					9.7278				
9.8308					9.8264					9.8211					9.8231				
+6723					+6705					+6624					+6654				
20 10.8 1.11826					9 1.124577					4 44.8 1.55461					8 9.7 1.46953				
33.7 1.03001					33.0 1.26388					59.3 1.48081					33.3 1.38748				
33.5 1.0201					32.1 1.0215					104.0 1.0221					33.0 1.0300				
30 16.75					9.9735					0 52.00					8 16.50				
+10.71 52					9.9722					-30.26 51					+24.40 51				
30 27.46 34 42.38					9.6154					0 21.74 4 46.16					8 40.90 56 27.64				
52 52 20.89					52 13 52.66					51 22 26.61					52 14 7.45				
-17 48.81					-17 48.81					-17 48.81					-17 48.81				
.05					.13					.35					.23				
.04					.86					.12					.73				
+10.20					+6.38					+8.68					+8.49				
+19 53.693					+20.46					+20.47					+20.51				
-17 38.51					-17 39.84					-17 40.45					-17 39.81				
52 34 32.08					51 56 18.5					51 4 37.80					51 56 18.4				



822	Aug 2 303 8	9.9229	Aug 2 303 17	9.9222	Aug 2 303 20	9.9219	Aug 2 303 40	9.9219
20 12 13	+1.483	2.782	20 12 48	+1.659	2.278	20 13 6	+1.491	2.767
54 50	-15	8.9760	51 37	-15	8.9256	54 44	-15	8.9747
11 440	48.9	9.7377	12 150	331	9.7394	12 356	312	9.7400
9 438	398	9.0635	10 144	456	9.0312	11 336	11	9.0626
453	433	+	196	484	+	336	11	+
510	465	0.1711	341	518	0.2198	336	11	0.1735
564	505	8.7137	67	553	8.6650	336	11	8.7147
9 4652	8.8012	8.7137	67	553	8.6650	336	11	8.7147
9 5090	10 1547	8.9864	10 1937	10 5196	8.7406	11 3360	11 344	8.8026
+24.57	+2 15.31	+1062	+32.59	+2 15.31	8.7534	-30.16	+2 15.31	8.8945
+2 15.29	- .26	+782	+2 15.23	- .24	+1.188	+2 15.24	- .26	+784
-1336	12 30.71	+1491	-14.94	13 7.19	+1.382	13 18.68	13 18.68	+1484
-1 3846	-3.80	+3.803	-138.91	-3.72	+3.717	-3.80	-3.80	+3.805
12 2691	9.9222	9.9222	13 3.47	9.9222	9.9222	13 14.88	9.9219	9.9219
9.9125	9.9125	9.9125	9.9125	9.9125	9.9125	13 15.29	9.9120	9.9120
9.7377	9.7377	9.7377	9.7377	9.7377	9.7377	13 15.29	9.7400	9.7400
9.8354	9.8354	9.8354	9.8354	9.8354	9.8354	13 15.29	9.8339	9.8339
+11.89	9.76039	+6.845	+8.95	9.79304	+6.555	+12.42	9.76146	+6.822
12 4.87	1.39041	2.499	35 4.88	1.37308	2.692	30 6.9	1.47943	2.504
1096	1.27860	+9.344	07 1.43392	+9.247	10416	100 1.36869	+9.326	1.0422
12 54.80	1.0399	1.0399	1045	1.0416	9.9222	20 12.95	9.9219	9.9219
15 13.77	9.9229	9.9229	25 5.475	9.9222	9.9222	20 12.95	9.9219	9.9219
49 57.64	9.9705	9.9705	+2.16 51	9.9660	9.9660	19 49.58	9.9697	9.9697
55 7 34.56	9.6502	9.6502	26 21.91	9.6338	9.6338	45 22.38	9.6520	9.6520
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	55 2 58.77	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81	9.7354	9.7354	57 26.44	9.7354	9.7354	45 2.32	9.7354	9.7354
-17 10.81								



Aug 2	304 19	9.9170	Aug 2	304 21	9.9168	Aug 2	305 10	9.9125	Aug 2	305 9	9.9126
	2448			2448			2167			2105	
30 17 5	+1.621	-1.451		+1.621	-1.451	20 30 20	+1.726	-1.346	20 20 30	+1.744	-1.328
52 42	-15			-15		50 54	-15		50 58	-15	
16 326	16 259	8.9426	16 326	8.9426	19 45.7		8.9145	19 45.7	19 39.4	8.9083	
38.7	9.7511			9.7515	8.76		9.7604	9.7604	23.9	9.7602	
14 54.5	9.0418		14 54.5	9.0418	17 44.7	17 51.7	9.0244	18 40.3	18 39.8	9.0207	
59.0			31.0			50.7	56.3	46.4	42.7		
2.0			55.3			56.0	58.1	50.3	46.0		
50	0.2098		58.7	0.2098			1.4		4.01	0.2416	
8.5	8.6941		58.7	8.6941			4.8		5.35	8.6685	
	8.7929			8.7933			8.7848		-25.92	8.7809	
	8.9588			8.9586			8.9369		3.01	8.9333	
15 1.80			14 31.33			17 50.17	4.13	170	18 45.67	18 46.02	
+2 15.30	+1.161		+36.6	+1.161		+3.295	58.26	+1.236	-25.57	20.10	+1.249
+ 20	+ 44.7		+ 20	+ 44.7		+ 12	15.30	+ 4.28	+ 2	15.30	+ 4.21
+2 15.23	- .25		+2 15.22	- .25		+ 24	19	+ 7.53	- .24	+ 7.96	
+ 12	+13.79		+ 12	+13.98		+ 30	3.02	+13.30	- .03	+13.19	
-14.57	17 17.03	+3.774	-14.59	17 23.39	+3.774	-15.52	20 39.65	+3.747	-15.70	20 35.31	+3.735
	-3.77			-3.77			-3.95		-3.74		
17 13.26			17 19.62	9.9168	-14.386	20 35.70	9.9125	-14.377	20 31.57	9.9126	
				9.9008			9.8901			9.8876	
				9.7515			9.7604			9.7602	
				9.8176			9.8026			9.8002	



822  
 Aug 2 309.56 9.8847  
 16 21 2135  
 20 39.34 +1.818 -1.254  
 30 42 -16 8.9114  
 38 47.7 9.8075  
 37.3 9.8225  
 36 51.5 37 226  
 36 53.8 560  
 54.2 35.8  
 57.5 32.0  
 15 35.5 0.2596  
 33.5 44.9 8.7189  
 36 56.70 37 25.98 8.8300  
 + 32.28 42 15.29 +1.302  
 + 1.8 18 +4.73  
 +2 15.20 - 25 +8.35  
 - 02 +12.42  
 39 44.18 +3.852  
 39 3.85  
 39 51.22 9.8847  
 40.33 9.8889  
 9.8075  
 9.7736  
 + 8.05 9.88166 +.5937  
 20 40.1 1.50893 2746  
 53.9 1.43839 +.8683  
 13.0 1.1094  
 20 46.50 50 9.8847  
 + 27.44 50 9.9387  
 21 13.94 43 53.65 9.6964  
 51 34.41 -19.23  
 -17 48.81 43 34.42 +9.22  
 - .28 +6.93  
 - .10 +10.73  
 + 8.29 -7.65  
 + .14 39 23.97 +19.23  
 -17 40.76 41 38.7  
 50 43 45.60



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823												
84	Aug 6	282 41	9.9883	Aug 6	284 0	9.9869	Aug 6	284 34	9.9858	Aug 6	285 1	9.9849
18 50 29	+1226	-1846	18 55 45	+1430	-1642	18 57 56	+1465	-1607	18 59 51	+1262	-1810	
+34 44	-17	8.9747	+51 40	-17	8.9264	+51 9	-17	8.9181	+54 39	-17	8.9706	
52 48		9.3416	55 163		9.3837	57 285		9.4006	59 255		9.4135	
426		9.0626	387		9.0317	73		9.0266	278		9.0599	
48 417	48 193	0.0885	53 87	53 381	0.1553	55 155	55 515	0.1658	57 171	57 402	0.1011	
415	230	8.3163	90	414	8.3101	30.8	547	8.3187	239	428	8.3841	
534	366	8.4042	144	446	8.4154	96.3	580	8.4272	388	473	8.4734	
P2	338	9.0519	88	514	9.0186	47	10	9.0124	507	544	9.0498	
216	332		271	235		21	399		88	354		
48 47.20	48 26.64	+894	53 9.03	53 44.70	+1042	55 2070	55 57.98	+1068	57 2293	57 47.08	+920	
-20.56	+2 16.64	+184	+35.67	+2 16.64	+181	+37.28	+2 16.64	+185	+24.15	+2 16.64	+215	
+2 16.70	+38	+336	+2 16.69	+39	+345	+2 16.68	+27	+354	+2 16.71	+29	+394	
-1104	50 43.54	+1631	-1288	56 139	+1510	-46.18	58 1466	+1489	-1136	0	+1604	
-3951	-3.04	+3045	-4356	-3.08	+3078		-3.10	+3096	-4662	-3.13	+3133	
50 403.0	9.9893	9.9120	55 58.31	9.9869	9.8947	58 14.56	9.9858	9.8915	0	0.66	9.9849	
		9.3416		9.8947	9.3837		9.8915	9.4006			9.9107	
		9.9013		9.3837	9.8816		9.4006	9.8773			9.4135	
+1222	9.76146	+7967	+8.59	9.79256	+7614	+7.89	9.79746	+7539	+11.45	9.76413	+7863	
30 168	1.31302	2504	23 30	1.55230	2687	54 110	1.57148	2720	34 383	1.35292	2519	
323	1.20228	+10471	30.1	1.47266	+10303	38.9	1.49674	+10259	54.8	1.27485	+10382	
491		0.6438	231		0.6859	399		0.7028	931		0.7157	
20 24.55		9.9893	23 11.53		9.9869	54 19.95		9.9858	34 46.55		9.9849	
-1593	54	0.0200	+29.69	51	0.0130	+31.39	51	0.0111	+18.53	54	0.0163	
20 8.62	45 6.41	9.2536	23 41.24	41 30.16	9.2784	54 57.34	10 1936	9.2721	35 5.98	30 8.88	9.3242	
55 2 39.73	-23.85		51 59 41.1	-23.05		51 24 57.01	-23.02		54 47 42.97	-23.07		
-17 45.54	44 43.26	+3.21	-17 45.59	41 7.11	+354	-17 45.54	9 56.34	+368	-17 45.54	29 45.81	+3.79	
-11		+866	-33		+861	-38		+859	-15		+857	
-105		+1387	-38		+1365	-52		+1359	-58		+1376	
+1216		-259	+914		-275	+864		-284	+1196		-305	
+22	50 29.26	+23.15	+16	55 45.43	+23.05	+15	57 58.38	+23.02	+22	59 49.30	+23.07	
-17 33.32	44 3.8		-17 36.95	40 23.6		-17 37.65	9 11.2		-17 34.09	28 59.2		
54 44 54.9			51 41 21.57			51 10 11.47			54 29 57.43			
Aug 6	287 3	9.9805	Aug 6	289 3	9.9755	Aug 6	289 13	9.9751	Aug 6	290 8	9.9726	
19 4 54	+1483	-1589	19 15 53	+1491	-1581	19 16 34	+1541	-1531	19 20 17	+1445	-1627	
+51 9	-17	8.9184	+51 20	-17	8.9212	+50 38	-18	8.9078	+52 19	-18	8.9366	
7249		9.4672	15 236		9.5137	16 33		9.5174	19 477		9.5368	
73		9.0267	182		9.0285	264		9.0204	170		9.0380	
5 387	5 (448)	0.1711	13 30.0	13 481	0.1735	14 494	14 385	0.1878	17 363	17 426	0.1599	
430	483	8.3856	31.5	515	8.4349	552	317	8.4252	404	454	8.4734	
495	515	8.4939	333	547	8.5422	596	350	8.5378	468	491	8.5448	
78	550	9.0072	579	70	9.0040			8.9955	524	557	9.0106	
112	240		14	48		142	248		35	455		
5 43.73	5 54.80	+1081	13 31.60	13 54.60	+1087	14 54.73	14 34.96	+1123	17 41.17	17 49.10	+1053	
+11.07	+2 16.64	+216	+23.00	+2 16.64	+242	-19.77	+2 16.64	+236	+34.92	+2 16.64	+264	
+2 16.68	+34	+413	+2 16.67	+34	+462	+2 16.66	+28	+457	+2 16.68	+29	+498	
-1336	8 114.8	+1471	-1343	76 112.9	+1461	-1387	16 516.2	+1432	-1301	20 32.77	+1483	
-5274	-3.18	+3181	-5877	-3.25	+3252	-5931	-3.25	+3248	-1301	-3.30	+3298	
8 8.30	9.9805	9.8916	78 8.04	9.9755	9.8927	16 4837	9.9751	9.8854	20 29.47	-3.30	9.9726	
		9.4672		9.8927	9.5137		9.8854	9.5174			9.8986	
+8.23	9.79746	9.8721		9.5137	9.8682		9.8625	9.8625			9.5368	
54 187	1.04415	+7449	+8.49	9.79573	+7382	+7.87	9.80382	+7286	+9.20	9.78625	+7434	
361	0.96941	2719	30	1.36173	2708	35 431	1.29601	2759	43 380	1.54307	2650	
548		+10168	208	1.28526	+10090	10	1.22763	+10045	555	1.45712	+10084	
54 27.40		0.7694	238		0.8159	1041		0.8196	935		0.8390	
+27.40	51	9.9805	43 11.90	51	9.9755	35 52.05	50	9.9751	43 46.75	52	9.9726	
54 36.12	10 34.32	0.0072	+19.29	51	0.0039	-16.89		0.0019	+28.65	52	0.0036	
51 28 11.63	-22.93	9.3588	43 31.19	21 40.11	9.4064	35 35.16	29 35.4	9.4048	44 15.40	20 56.1	9.4354	
-17 45.54	10 12.39		51 39 17.16	-22.24		50 47 13.19	-22.52		52 38 22.95	-22.78		
-103	11.39	+429	-17 45.54	21 17.27	+477	-17 45.54	29 12.70	+481	-17 45.54	20 33.83	+503	
-54		+848	-14		+839	-11		+838	-32		+833	
+865		+1347	-38		+1337	-12		+1331	-41		+1336	
+15	7 54.94	-331	+885		-369	+75.96		-368	+980		-394	
-17 37.31	9 18.6	+22.93	+16	75 54.61	+22.84	+14	16 34.50	+22.82	+18	20 16.46	+22.78	
51 10 26.09			-17 37.05	20 18.5		-17 38.07	28 13.41		-17 36.34	19 31.8		
			51 21 31.62			50 29 27.65			52 20 47.41			



523										100																													
Aug 6 286 24 9.9820										Aug 6 286 28 9.9818										Aug 6 286 39 9.9814										Aug 6 286 57 9.9809									
19 5 22 +1394										19 5 22 +1434										19 6 19 +1409										19 7 11 +1340									
+53 35 -17										+53 35 -17										+52 23 -17										+53 32 -17									
4 542 334										4 542 334										4 542 334										4 542 334									
2 368 2 475										2 368 2 475										2 368 2 475										2 368 2 475									
432 507										432 507										432 507										432 507									
483 540										483 540										483 540										483 540									
570 0.1443										570 0.1443										570 0.1443										570 0.1443									
9.1 8.3913										9.1 8.3913										9.1 8.3913										9.1 8.3913									
+27.16 8.4912										+27.16 8.4912										+27.16 8.4912										+27.16 8.4912									
2 4277 3 5412										2 4277 3 5412										2 4277 3 5412										2 4277 3 5412									
+38.51 +2.128										+38.51 +2.128										+38.51 +2.128										+38.51 +2.128									
+2.1668 +2.18										+2.1668 +2.18										+2.1668 +2.18										+2.1668 +2.18									
+2.1668 +2.18										+2.1668 +2.18										+2.1668 +2.18										+2.1668 +2.18									
-12.56 -50.85										-12.56 -50.85										-12.56 -50.85										-12.56 -50.85									
5 3796 +3.17										5 3796 +3.17										5 3796 +3.17										5 3796 +3.17									
5 3479 9.9820										5 3479 9.9820										5 3479 9.9820										5 3479 9.9820									
9.9820										9.9820										9.9820										9.9820									
9.9820										9.9820										9.9820										9.9820									
+9.46 9.98362										+9.46 9.98362										+9.46 9.98362										+9.46 9.98362									
18 158557										18 158557										18 158557										18 158557									
190 149699										190 149699										190 149699										190 149699									
208 10.40										208 10.40										208 10.40										208 10.40									
28 3140 52 30										28 3140 52 30										28 3140 52 30										28 3140 52 30									
28 4180 36 30										28 4180 36 30										28 4180 36 30										28 4180 36 30									
52 54 6.55 -2298										52 54 6.55 -2298										52 54 6.55 -2298										52 54 6.55 -2298									
-17 4554 36 7.49										-17 4554 36 7.49										-17 4554 36 7.49										-17 4554 36 7.49									
-39										-39										-39										-39									
-10.38										-10.38										-10.38										-10.38									
+10.04 22										+10.04 22										+10.04 22										+10.04 22									
+19 542.23										+19 542.23										+19 542.23										+19 542.23									
-17 3768 35 16.6										-17 3768 35 16.6										-17 3768 35 16.6										-17 3768 35 16.6									
52 36 21.01										52 36 21.01										52 36 21.01										52 36 21.01									
Aug 6 290 9 9.9726										Aug 6 290 9 9.9726										Aug 6 290 41 9.9711										Aug 6 291 4 9.9707									
19 30 18 +1434										19 30 18 +1403										19 32 39 +1329										19 38 58 +1552									
+52 30 -18										+52 30 -18										+54 18 -18										+50 36 -18									
19 499 281										19 496 52 591										19 515 20 313										19 58 58 23 278									
18 49 18 136										18 49 18 136										19 515 20 313										21 193 31 275									
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213 190										213 190										19 515 20 313										21 193 31 275									
8.9 234										8.9 234										19 515 20 313										21 193 31 275									
253 0.1566										253 0.1566										19 515 20 313										21 193 31 275									
8.9 8.4766										8.9 8.4766										19 515 20 313										21 193 31 275									
8.5770										8.5770										19 515 20 313										21 193 31 275									
9.0124										9.0124										19 515 20 313										21 193 31 275									
18 4180 18 45.56										18 4180 18 45.56										19 515 20 313										21 193 31 275									
+325 +2.1664										+325 +2.1664										+3153 +2.1664										+3619 +2.1664									
+2.1666 -30										+2.1666 -30										+2.1666 -30										+2.1666 -30									
-12.92 -20 35.64										-12.92 -20 35.64										-11.97 -22 45.06										-13.98 -24 16.69									
-12.01 -3.30										-12.01 -3.30										-11.97 -22 45.06										-13.98 -24 16.69									
20 32.34 9.9726										20 32.34 9.9726										22 4172 9.9711										24 13.38 9.9706									
9.9726										9.9726										22 4172 9.9711										24 13.38 9.9706									
9.9726										9.9726										22 4172 9.9711										24 13.38 9.9706									
+9.70 9.98445										+9.70 9.98445										+11.70 9.976607										+7.54 9.98259									
33 374 0.5188										33 374 0.5188										45 79 149900										27 31.7 155859									
448 0.42413										448 0.42413										45 79 149900										27 31.7 155859									
722 0.8394										722 0.8394										45 79 149900										27 31.7 155859									
33 36.10 9.9726										33 36.10 9.9726										45 79 149900										27 31.7 155859									
+2.66 52 0.039										+2.66 52 0.039										45 79 149900										27 31.7 155859									
33 38.76 31 3375										33 38.76 31 3375										45 79 149900										27 31.7 155859									
52 49 9.59 -22										52 49 9.59 -22										45 79 149900										27 31.7 155859									
-17 4554 31 10.97										-17 4554 31 10.97										45 79 149900										27 31.7 155859									
-39										-39										45 79 149900										27 31.7 155859									
-10.38										-10.38										45 79 149900										27 31.7 155859									
+9.95										+9.95										45 79 149900										27 31.7 155859									
+19 20 19.42 +22.78										+19 20 19.42 +22.78										45 79 149900										27 31.7 155859									
-17 35.84 30 9.0										-17 35.84 30 9.0										45 79 149900										27 31.7 155859									
52 31 24.05										52 31 24.05										45 79 149900										27 31.7 155859									



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102

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Aug 9 303 9 9.9228										Aug 9 303 21 9.9219										Aug 9 304 19 9.9170										Aug 9 304 31 9.9159									
2795										2302										2457										2345									
-1593										-1419										-1452										-1412									
20 12 30 +1.479										20 13 2 +1.653										20 17 5 +1.620										20 17 46 +1.660									
+54.52 -13										+51.46 -13										+52.42 -13										+52.0 -13									
11 522										8.9280										8.9429										8.9318									
484										9.7402										9.7511										9.7533									
10 36.3										11 120										14 270										15 14.5									
432										200										28.7										9.0									
49.4										337										35.0										13.7									
83										11 120										14 270										15 14.5									
51.7										8.4151										0.2095										0.2201									
54.8										8.7151										8.6940										8.7883									
-28.67										-26.66										+27.23										+26.80									
89 394										8.9872										8.9589										8.9509									
10 42.97										11 18.57										14 3093										15 9.40									
-23.76										-12.59										+28.54										+38.42									
+2 17.44										+2 17.40										+2 17.41										+2 17.40									
-13.30										-14.88										14.57										-14.94									
-138.55										-139.09										-141.61										-142.15									
12 36.66										13 18.70										17 13.15										18 1.50									
-3.75										-3.68										-3.73										-3.72									
12 33.70										9.9228										9.9170										9.9159									
32.90										9.9129										9.9079										9.8968									
+12.72										+9.38										+6.56										+6.47									
9.7603										9.79160										9.78246										9.78934									
10.8 1.37585										11.1 1.13322										19.332 1.55545										1.390 1.58456									
16.4 1.26368										10.1 1.05262										5.35 1.36671										5.78 1.50170									
152										412										86.7										9.77									
7.60										9.9228										9.9219										9.9170									
-183554										9.9705										9.9660										9.9638									
18.7 4.925										9.6507										9.6555										9.6520									
55 18.5910										52.5 39.04										53.2 41.79										52.20 27.75									
-17 45.95										-17 45.95										-17 45.95										-17 45.95									
4										4										4										4									
+12.78										+13.70										+12.50										+12.75									
+12.78										+6.13										-8.15										+9.75									
A 9.8645										+22.23										+22.15										+22.16									
B 0.9424										+17 13.82										+17 13.82										+17 13.82									
C 1.1429										-17 36.57										-17 36.57										-17 36.57									
D 1.1375										51.47 53.99										52.44 65.84										52.2 41.80									
Aug 9 277.50										Aug 9 280.12										Aug 9 286.25										Aug 9 286.28									
2375										2543										2057										2325									
-1.712										-1.768										-1.538										-1.638									
18 31.4										18 40.85										19 5.22										19 5.40									
+52.16										+53.18										+50.10										+51.86									
30.402										8.9353										8.9029										8.9303									
146										40.93										4.512										5.57									
38 36.2										38 8.4										38 8.4										38 8.4									
41.4										14.7										2.34										3.38									
47.3										30.3										4.75										3.91									
65										8.0698										8.0175										8.0341									
0.1335										0.1153										0.1858										0.1566									
8.0698										8.2003										8.3541										8.3828									
8.1717										8.2960										8.4687										8.4866									
9.0331										9.0409										8.9974										9.0159									
28 41.63										38 10.47										2 42.50										3 23.70									
+22.69										+17.71										+38.70										+8.2									
+26										+27										+21.20										+21.40									
+2 17.44										+2 17.44										+2 17.43										+2 17.42									
-12.25										-11.74										-13.81										-12.92									
-24.48										-31.86										-50.85										-51.03									
31 18.98										40 46.74										5 35.33										5 47.3									
9.9959										9.9931										9.9819										9.9818									
9.8981										9.9042										9.8854										9.8962									
9.1345										9.2482										9.4512										9.4525									
9.8940										9.8973										9.8673										9.8780									
+9.59										+10.56										+7.367										+9.44									
4.8 36.9										4.4 38.0										5.3 23.1										7 37.50									
1.35583										1.24822										1.58771										0.99211									
56.9										1.70										4.40										1.80									
1.27037										2.15245										1.52207										0.90990									
+1.0989										+1.0985										+1.0145										+1.0225									
0.4367										0.5504										0.7534										0.7517									
9.9959										9.9931										9.9819										9.9818									
0.0207										0.0206										0.0063										0.0077									
9.0326										9.1524										9.3366										9.3487									
+207										+260										+4.15										+4.16									
+8.88										+8.62										+8.40										+8.40									
+14.57										+14.57										+14.10										+14.21									
-148										-195										-298										-306									
+18										+20										+23.67										+23.71									
31 6.73										40 35.00										5 21.72										5.34.91									
-17 36.36										-17 35.39										-17 38.88										-17 36.51									
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Aug 9 291 10 9.9697				Aug 9 291 32 9.9686				Aug 9 291 57 9.9672				Aug 9 292 31 9.9156			
19 24 20 +1576				19 25 30 +1509				19 27 30 +1429				19 29 51 +1378			
50 10 -13				50 10 -13				50 10 -13				50 10 -13			
23 482				23 482				23 482				23 482			
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1884	Aug 9	294 42	9.9583	Aug 9	294 57	9.9574	Aug 9	295 14	9.9564	Aug 9	295 15	9.9564
	19 38 33	+1.612	2061	19 39 30	+1.557	2229	19 40 41	+1.506	2385	19 40 43	+1.507	2382
	+50 14	-13	8.9039	+51 18	-13	8.9207	+52 19	-13	8.9363	+52 17	-13	8.9360
	38 02		9.6210	38 589		9.6251	40 108		9.6297	40 134		9.6302
	110		9.0181	151		9.0282	159		9.0378	140		9.0377
	35 407 36	362	0.2074	36 554 37	324	0.1923	37 560 38	46	0.1778	38 552 38	366	0.1781
	444	203	8.5249	04	267	8.5458	16	100	8.5660	16	402	8.5660
	483	327	8.6391	47	397	8.6533	73	130	8.6675	63	435	8.6677
	68	358	8.9764		331	8.9856		165	8.9942		467	8.9941
		390	9.2		865			199			500	
	134	130		10	496			160		31	170	
	35 4447	36 3260		37 033	37 2992		38 160	38 1320		39 103	38 4340	
	+58.13	+2 17.39	+1.180	+29.59	+2 17.39	+1.140	+38.59	+2 17.39	+1.102	-17.63	+2 17.39	+1.103
		+ .24	+ .293	+ .25	+ .25	+ .308		+ .26	+ .322		+ .26	+ .322
	+2 17.41	- .20	+ .605	+2 17.40	- .21	+ .625	+2 17.42	- .21	+ .646	+2 17.41	- .21	+ .647
		- .02	+ .130		- .03	+ .1328		- .02	+ .1354		- .03	+ .1354
	-14.51	38 5001	+3.378	-14.02	39 4732	+3.401	-13.55	40 5761	+3.424	-13.56	41 081	+3.426
	-15.33	-3.38		-15.96	-3.40		-16.86	-3.42		-16.86	-3.43	
	38 4663		9.9583	39 4392		9.9574	40 5419		9.9564	40 5738		9.9564
			9.8858			9.8925			9.8985			9.8984
			9.6210			9.6251			9.6297			9.6300
			9.8441			9.8499			9.8549			9.8548
	+7.03	9.80595	+6.984	+8.93	9.79605	+7.078	+9.31	9.78625	+7.160	+9.92	9.78658	+7.158
	48 552	1.68242	2.774	45 41	1.47114	2.710	44 138	1.58647	2.651	46 392	1.24625	2.652
	168	1.61617	+9.458	227	1.39499	+9.788	532	1.50052	+9.811	582	1.16063	+9.810
	120		0.9232	268		0.9273	470		0.9319	974		0.9322
	49 6.00		9.9583	45 13.40		9.9574	44 23.50		9.9564	46 48.70		9.9564
	+41.32	50	9.9894	24.83	51	9.9907	+31.66	52	9.9917	-14.48	52	9.9917
	49 4732	15 2206	9.5068	45 38.23	19 33.10	9.5176	44 55.16	20 16.55	9.5282	46 34.22	18 38.10	9.5284
	50 33 1.03	-23.41		51 37 10.12	-23.21		52 37 53.19	-23.18		52 36 14.13	-23.18	
	-17 45.95	14 5887	+6.13	-17 45.95	19 989	+6.19	-17 45.95	19 5337	+6.26	-17 45.95	18 1492	+6.26
	-62		+7.96	-23		+7.94	-39		+7.92	-09		+7.92
	+80.49		+13.56	-02		+13.60	-53		+13.63	-22		+13.63
	+17.45		-4.41	+9.02		-4.52	+10.05		-4.63	+15.05		-4.63
	+14	38 32.12	+23.24	+16	39 29.90	+23.21	+18	40 40.64	+23.18	+18	40 43.82	+23.18
	-17 38.94	218 43.5		-17 37.02	17 52.9		-17 36.64	18 36.5		-17 36.03	16 58.1	
	50 15 15.08			51 19 24.17			52 20 7.24			52 18 28.18		
	Aug 9	296 17	9.9526									
	19 44 48	1625	2079									
	+50 20	-13	1447									
	44 160		8.9057									
	172		9.6462									
	42 322	42 440	9.0192									
	273	473										
	82.3	507										
	86	58.9	0.2108									
		570	8.5519									
			8.6654									
			8.9788									
	218	29										
	42 27.27	42 50.58										
	+23.31	+2 17.39	+1.189									
		+ .24	+ .312									
	+2 17.41	- .20	+ .643									
		- .02	+12.86									
	-14.62	45 7.99	+3.430									
	-119.83	-3.43										
	45 4.56		9.9526									
			9.8866									
			9.6462									
			9.8392									
	+7.73	9.80504	+6.906									
	42 541	1.36754	2.767									
	139	1.30038	+9.673									
	80		0.9484									
	43 4.00		9.9526									
	+19.97	50	9.9856									
	43 23.97	21 46.16	9.5328									
	50 39 24.38	-23.11										
	-17 45.95	21 23.05	+6.50									
	-14		+7.85									
	-37		+13.44									
	+87.0		-4.68									
			+23.11									
	For remainder of this date											
	turn back 5 pages											
	-17 38.22		44 49.94									
	50 21 38.43		20 3.2									



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826

Jan. 18 32 25				Jan 18 32 54				Jan. 18 34 13			
9.7292				9.7349				9.7816			
2846				2020				2849			
+1032				+865				+4237			
8.9824				8.8998				8.9827			
9.9264				9.9241				9.9011			
9.0679				9.0156				9.0680			
0.6132				0.5952				0.6271			
8.9088				8.8239				8.8838			
8.9943				8.9397				8.9691			
8.7971				8.7505				8.8496			
+520				+499				+537			
+767				+631				+724			
-899				-793				-848			
+1120				+1036				+1264			
+1508				+1343				+1677			
9.7292				9.7349				9.7816			
9.9146				9.8842				9.9147			
9.9264				9.9241				9.9011			
9.6438				9.6191				9.6763			
-4403				-4160				-4969			
-2474				-2790				-2473			
-1929				-1370				-2496			
1.2286				1.2263				1.2033			
9.7292				9.7349				9.7816			
9.2853				9.1367				9.3972			
9.8410				9.8083				9.8158			
+214				+213				+202			
-507				-514				-572			
+176				+125				+2.27			
+1239				+1149				+1169			
+1122				+9.73				+1026			
8.57.78				10.59.62				28.7.46			
10.37.8				56.14.3				12.3.5			
+14.08				+1408				+1408			
9.75660				9.75642				9.75642			
1.57159				1.57173				1.57173			
1.43865				1.45861				1.45861			
32.9				20.8				20.8			
51.41.50				50.27.60				50.27.60			
27.46				28.75				28.75			
13.3847				14.5366				14.5366			
-11.22				-10.26				-10.26			
55.31.34.31				55.32.49.50				55.32.49.50			
18.9.92				18.9.92				18.9.92			
3.6				3.6				3.6			
0.2				0.2				0.2			
14.16				14.17				14.17			
-17.5584				-17.5584				-17.5584			
55.13.24.37				55.14.37.58				55.14.37.58			



Jan 19  
h m s  
2 40 56  
+ 54<sup>s</sup> 88

Ch. 7

Jan 19	61	39	9.9445
Feb 23			2.113
4 5 52	+4504		+1432
+50° 32'			
4	22.1632	+1	8.9091
	29.0291		9.6766
6	2.8	6 8.4	9.0212
	5.6	11.9	
	7.8	14.5	
	10.2	18.3	0.6536
84	11.5	24.2	8.5857
		148.6	8.6978
		+25.96	8.9657

6	7.58	6	4082	+ 5.77
	+ 33.24	+	7.30	+ 3.63
		+	.88	- 4.70
- 6.44				+ 1.633
				+ 2.103
- 45.02		6	3438	9.9445
- 135.60			- 2.10	9.8879
		6	8228	9.6766
				9.8324
				- 6.798
+ 9.01				- 2.754
3.21	33.3	9.50	3.20	- 4.044
	3.1	1.62	1.66	0.9488
	58.8	1.43	5.32	9.9445
	59.8			9.6058
3.21	57.5	50	4	9.5645
-	27.25	38	5.38	
29.30	41.50		- 3.14	+ 1.14
or 58	6.85	35	2.24	- 8.29
- 18	10.48	4		+ 3.81
-	.29			+ 6.48
-	50	5	47.26	+ 3.14
+	9.11	32	26.6	
+	.19			
- 18	1.47			
50	34			



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-	47		+3.93
-	.09	56 14.39	+0.68
+	14.41	10 42.3	
+	.30		
-17	56.29		
55	11 24.48		



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1884phae. prof.	7.8488 2841 4.430 + 1358 8.9819 9.8501 9.0675 0.6464 8.8320 8.9176 8.9163 + 578 + 635 - 825 + 1428 + 1816 9.8488 9.9144 9.8501 9.7632 5.797 2.476 - 3321 1.1523 9.8488 9.8213 9.7645 + 1.85 - 663 + 331 + 1527 + 860	Jan 21 57 11 2.8916 Jan 21 57 11 2.8916 3 23 56 +4.569 +55° 3' 22 25.5 a+1 24 19.3 24 14.0 22.0 17.7 24.5 21.4 27.3 25.2 30.0 28.7 21.40 + 2886 + 596 24 24.62 24 50.26 + 2564 - 7.78 + 80 - 7.01 - 83 24 43.25 9.8916 -4.5.6 -2.00 9.9142 -2 6.30 24 41.23 9.7972 9.8058 - 6394 - 2478 + 14.07 55 238 9.75714 340 1.40892 322 1.27652 298 9.8916 298 9.5928 55 2975 9.7114 - 1890 10 1289 55 11.05 -7.14 55 24 3750 10 5.75 - 17 3848 - 17 - 17 + 1375 - 17 24.91 55 9.5882 Jan 21 20.23 4 11 13 22.7 +49° 57' 9 48.6 53.5 11 43.7 46.2 49.0 9.1	57 11 2.8916 2.8916 +1.497 +54° 45' 26 32.0 28 33.4 36.8 40.0 41.9 43.8 8.0 + 596 28 39.18 - 7.31 + 1573 + 2002 9.8916 9.9142 9.7972 9.8058 - 6394 - 2478 + 13.33 48 17.0 27.8 26.6 22.8 19.8 23.55 - 3066 187 52.89 55 24 3846 - 17 3848 - 43 - 104 + 1351 + 29 - 17 25.15 54 46.1698 Jan 21 20.23 4 11 18 +49° 57' a-1 12 14.0 17.0 19.0 9.2 + 586 + 340 - 473 + 1597 + 2050 9.9494 9.8843 9.6590 9.8337 - 8.19 - 2.89 + 8.11 5 4.0 9.80882 14.8 1.03623 12.4 0.95521 9.5 5 10.18 49 + 902 5 1920 50 17 2915 - 17 3848 - 80 + 823 + 77 - 17 30.11 49 59 5067	52 18 2.8916 2.8916 +4.570 +54° 45' 26 32.0 28 33.4 36.8 40.0 41.9 43.8 8.0 + 596 28 39.18 - 7.31 + 1573 + 2002 9.8916 9.9142 9.7972 9.8058 - 6394 - 2478 + 13.33 48 17.0 27.8 26.6 22.8 19.8 23.55 - 3066 187 52.89 55 24 3846 - 17 3848 - 43 - 104 + 1351 + 29 - 17 25.15 54 46.1698 Jan 21 20.23 4 11 18 +49° 57' a-1 12 14.0 17.0 19.0 9.2 + 586 + 340 - 473 + 1597 + 2050 9.9494 9.8843 9.6590 9.8337 - 8.19 - 2.89 + 8.11 5 4.0 9.80882 14.8 1.03623 12.4 0.95521 9.5 5 10.18 49 + 902 5 1920 50 17 2915 - 17 3848 - 80 + 823 + 77 - 17 30.11 49 59 5067	52 18 2.8916 2.8916 +4.570 +54° 45' 26 32.0 28 33.4 36.8 40.0 41.9 43.8 8.0 + 596 28 39.18 - 7.31 + 1573 + 2002 9.8916 9.9142 9.7972 9.8058 - 6394 - 2478 + 13.33 48 17.0 27.8 26.6 22.8 19.8 23.55 - 3066 187 52.89 55 24 3846 - 17 3848 - 43 - 104 + 1351 + 29 - 17 25.15 54 46.1698 Jan 21 20.23 4 11 18 +49° 57' a-1 12 14.0 17.0 19.0 9.2 + 586 + 340 - 473 + 1597 + 2050 9.9494 9.8843 9.6590 9.8337 - 8.19 - 2.89 + 8.11 5 4.0 9.80882 14.8 1.03623 12.4 0.95521 9.5 5 10.18 49 + 902 5 1920 50 17 2915 - 17 3848 - 80 + 823 + 77 - 17 30.11 49 59 5067	52 18 2.8916 2.8916 +4.570 +54° 45' 26 32.0 28 33.4 36.8 40.0 41.9 43.8 8.0 + 596 28 39.18 - 7.31 + 1573 + 2002 9.8916 9.9142 9.7972 9.8058 - 6394 - 2478 + 13.33 48 17.0 27.8 26.6 22.8 19.8 23.55 - 3066 187 52.89 55 24 3846 - 17 3848 - 43 - 104 + 1351 + 29 - 17 25.15 54 46.1698 Jan 21 20.23 4 11 18 +49° 57' a-1 12 14.0 17.0 19.0 9.2 + 586 + 340 - 473 + 1597 + 2050 9.9494 9.8843 9.6590 9.8337 - 8.19 - 2.89 + 8.11 5 4.0 9.80882 14.8 1.03623 12.4 0.95521 9.5 5 10.18 49 + 902 5 1920 50 17 2915 - 17 3848 - 80 + 823 + 77 - 17 30.11 49 59 5067	52 18 2.8916 2.8916 +4.570 +54° 45' 26 32.0 28 33.4 36.8 40.0 41.9 43.8 8.0 + 596 28 39.18 - 7.31 + 1573 + 2002 9.8916 9.9142 9.7972 9.8058 - 6394 - 2478 + 13.33 48 17.0 27.8 26.6 22.8 19.8 23.55 - 3066 187 52.89 55 24 3846 - 17 3848 - 43 - 104 + 1351 + 29 - 17 25.15 54 46.1698 Jan 21 20.23 4 11 18 +49° 57' a-1 12 14.0 17.0 19.0 9.2 + 586 + 340 - 473 + 1597 + 2050 9.9494 9.8843 9.6590 9.8337 - 8.19 - 2.89 + 8.11 5 4.0 9.80882 14.8 1.03623 12.4 0.95521 9.5 5 10.18 49 + 902 5 1920 50 17 2915 - 17 3848 - 80 + 823 + 77 - 17 30.11 49 59 5067	52 18 2.8916 2.8916 +4.570 +54° 45' 26 32.0 28 33.4 36.8 40.0 41.9 43.8 8.0 + 596 28 39.18 - 7.31 + 1573 + 2002 9.8916 9.9142 9.7972 9.8058 -
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