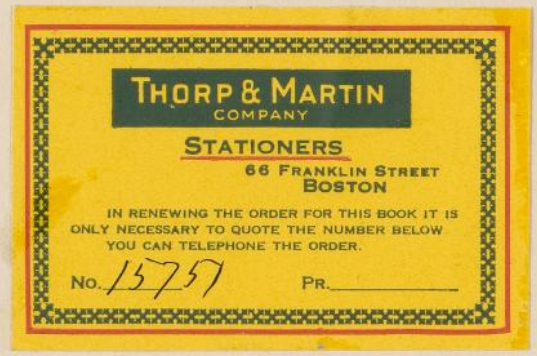
1927phae.proj.2813A

3

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Book 3

Positions of nebulae marked on A13810
Section C pg 2.

Positions of nebulae marked on A6720
Section ~~A~~ C pg 44.
Section B pg 76
Section A pg 138

Positions of nebulae marked on A 6719
Section A pg 160
Section D pg 180

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A 13810 Section C.A

Comp.

Net.	X	Y	Comp. Stars Positions 1855 Precession 45 yrs.	RA 1900 h	m	s
1	6.6	22.5	92626	12	21	58.4
	-3.0	-8.4	102426	12	22	36.8
	26.4	Scale readings reduced to records by factor $\frac{4}{\cos\delta}$	$12^h\ 19^m\ 40^s.4\ +9^\circ\ 46'.2$			
	-12.0		$12\ 20\ 18.8\ +10\ 9.1$			
			correction precession 45 yrs. $+2^m\ 18^s.0\ \ -15'.0$			
2	9.1	2.0				
	-0.6	-21.0				
	36.4					
	-2.4					
8	9.4	0.5				
	-0.1	-22.4				
	37.6					
	-1.4					
3	5.5	-1.1	92626	12	21	58.4
	47.6	25.4	92634	12	25	31.2
	22.0		$12\ 19\ 40.4\ +9\ 46.2$			
	-190.4		$12\ 23\ 13.2\ +9\ 19.8$			
			$+2\ \ 18.0\ \ -15.0$			
4	7.8	-5.4				
	-45.3	20.9				
	31.2					
	-181.2					
5	6.6	-7.3				
	-46.5	19.1				
	26.4					
	-186.8					

These positions are those of the net. in Section A instead of C, with the precession for section C applied.

Corrections to the net positions in the last column are applied to reduce the corrected positions for net position A, for 1900 for comparison with the previously determined positions in the first column.

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Stars N. nebulae

Dec 1900 °	′	R.A. 1900 h	m	s	Dec 1900. °	′	.25′ S.	.1	
+9	31.2	12	22	24.1 24.4	+9	53.7			
+9	54.1	12	22	24.2	+9	53.7			
		12	22	Mean 24	+9	53.7 ✓	0 +.3	0	+1.7
		12	22	34.1	+9	33.2			
		12	22	33.7 34.4	+9	33.1			
		12	22	34	+9	33.2 ✓	0 +.3	2	+3.7
		12	22	35.3 36.0	+9	31.7			
		12	22	35.7 36.4	+9	31.7			
		12	22	36 ✓	+9	31.7 ✓	−3 −2.7	1	+2.7
+9	31.2	12	22	19.7 20.4	+9	30.1			
+9	04.8	12	22	20.1 20.8	+9	30.2			
		12	22	20	+9	30.2 ✓	0 +.3	−8	−6.3
		12	22	28.9 29.6	+9	25.8			
		12	22	29.3 30.0	+9	25.7			
		12	22	29	+9	25.8 ✓	−1 −.7	−.2	−0.3
		12	22	24.1 24.8	+9	23.9			
		12	22	24.5 25.2	+9	23.9			
		12	22	24	+9	23.9 ✓	−1 −.7	−1	+0.7

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6	4.7	−7.7	12	21	5A.4
	−48.4	18.8	12	25	31.2
	1A.8				
	−193.6				
7	6.7	−8.6			
	−46.4	17.8			
	26.A				
	−1A5.6				
9	14.5	−8.0			
	−38.6	18.4			
	5A.3				
	−154.4				
10	18.6	−14.3			
	−34.6	12.1			
	74.4				
	−138.4				
11	32.5	−9.1			
	−20.5	17.4			
	13 1.0				
	−A2.0				
12	38.4	−18.1			
	−14.8	8.3			
	153.6				
	−59.2				

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1	+9	31.2	12	22	16.5 17.2	+9	23.5				
2	+9	04.8	12	22	16.9 17.6	+9	23.6				
			12	22	17 ✓	+9	23.6	✓	−1 −.7	−1	+.7
			12	22	24.5 25.2	+9	22.6				
			12	22	24.9 25.6	+9	22.6				
			12	22	25 ✓	+9	22.6	✓	−1 −.7	−2	−.3
			12	22	55.7 56.4	+9	23.2				
			12	22	56.1 56.8	+9	23.2				
			12	22	57 56	+9	23.2	✓	−3 −2.7	−2	+0.3
			12	23	12.1 12.8	+9	16.9				
			12	23	12.1 12.8	+9	16.9				
			12	23	12	+9	16.9	✓	−3 −2.7	−2	−0.3
			12	24	7.7 08.4	+9	22.1				
			12	24	8.5 09.2	+9	22.2				
			12	24	08	+9	22.2	✓	−3 −2.7	1	+2.7
			12	24	31.3 32.0	+9	13.1				
			12	24	31.3 32.0	+9	13.1				
			12	24	31	+9	13.1	✓	−2 −1.7	1	+2.7

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13	30.8	−16.6	12	21	54.4
	−22.3	9.9	12	25	31.2
	123.2				
	−89.2				
14	29.3	−15.9			
	−23.8	10.4			
	117.2				
	−95.2				
15	29.6	−17.5			
	−23.5	8.8			
	118.4				
	−94.0				
16	28.0	−18.0			
	−25.0	8.4			
	112.0				
	100.0				
17	29.0	−19.4			
	−24.1	7.0			
	116.0				
	−96.4				
18	22.2	−19.5			
	−30.9	6.8			
	88.8				
	−123.6				

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4	+9	31.2	12	24	01.6 (0.9)	+9	14.6				
2	+9	04.8	12	24	02.0 (1.3)	+9	14.7				
			12	24	07	+9	14.6	✓	−2 −1.7	0	+1.7
			12	23	55.6 (55.9)	+9	15.3				
			12	23	56.0 (56.3)	+9	15.2				
			12	23	56	+9	15.2	✓	−2 −1.7	−1	+.7
			12	23	56.4 (52.1)	+9	13.7				
			12	23	57.2 (56.5)	+9	13.6				
			12	23	56	+9	13.6	✓	−2 −1.7	−1	+.7
			12	23	50.4 (49.7)	+9	13.2				
			12	23	51.2 (50.5)	+9	13.2				
			12	23	51	+9	13.2	✓	−1 −.7	0	+1.7
			12	23	54.4 (53.7)	+9	11.8				
			12	23	54.8 (54.1)	+9	11.8				
			12	23	54	+9	11.8	✓	−2 −1.7	−1	+.7
			12	23	27.2 (26.5)	+9	11.7				
			12	23	27.6 (26.9)	+9	11.6				
			12	23	27	+9	11.6	✓	−2 −1.7	−1	+.7

(18) +0 −29 +5 −22

+9 −24.5 ✓ +21 −75

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19	29.2	-26.3		12 21 57.4 +
	-23.8	0.0		12 25 31.2 +
	116.8			
	-95.2			
21a	9.4	-25.7		
	-43.9	0.5		
	37.6			
	-175.6			
22a	4.4	-19.3		
	-48.7	7.0		
	17.6			
	-194.8			
23a	3.0	-21.5		
	-50.1	4.8		
	12.0			
	-200.4			
20	3.0	28.0	82604	12 22 22.5 +
	-44.1	-2.8	92634	12 25 31.2 +
	12.0		12 20 4.5 +8 49.0	
	-176.4		12 23 13.2 +9 19.8	
			2 18.0 -15.0	
28	6.5	4.7		
	-40.6	-26.2		
	26.0			
	-162.4			

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					54.4		7					
.4	+9	31.2	12	23	55.2	+9	04.3					
					55.2		6					
.2	+9	04.A	12	23	56.0	+9	04.A					
			12	23	55	+9	04.1 ✓		−1	-.7	+2	+3.7
							5.0					
					35.2		4					
			12	22	36.0	+9	05.3					
					34.8		3					
			12	22	35.6	+9	05.8					
			12	22	35	+9	05.7		−1	-.7	−3	−1.3
							5.5					
					15.3							
			12	22	16.0	+9	11.9					
					15.7							
			12	22	16.4	+9	11.A					
			12	22	16	+9	11.8		0	+.3	−2	−.3
					9.6							
			12	22	10.4	+9	09.7					
					10.0							
			12	22	10.A	+9	09.6					
			12	22	10	+9	09.5		−2	-1.7	−4	−2.3
							7					
					33.7							
+A	34.0		12	22	34.5	+9	02.0					
					34.6							
+9	04.A		12	22	34.A	+9	02.0					
			12	22	34	+9	01.0		−1	-.7	−5	−3.3
							2.1					
					47.7							
			12	22	48.5	+A	3A.7					
					48.0							
			12	22	48.A	+A	3A.6					
			12	22	48	+A	38.5		0	+.3	+1	+2.7
							38.7					

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27	8.0 -39.1 32.0 -156.4	10.3 -20.5		12 22 22.5 12 25 31.2
26	23.2 -23.8 92.A -95.2	17.4 -13.5		
25	35.6 -11.5 142.4 -46.0	19.2 -11.7		
36	38.6 -8.4 154.4 -33.6	3.9 -27.0		
23	19.3 -25.7 77.2 -102.A	4.4 -18.5	92634 92638 12 23 13.2 +9 19.8 12 26 13.5 +9 42.7 2 1A.0 -15.0	12 25 31.2 12 2A 31.3
21	19.9 -25.0 79.6 -100.0	16.3 -6.6		

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					53.7						
5	+P	34.8	12	22	54.5	+P	44.3				
					54.4						
2	+9	04.P	12	22	54.8	+P	44.3				
			12	22	54	+P	44.2	0	+.3	-2	+1.7
							44.4				
					54.5						
			12	23	55.3	+P	51.4				
					55.2						
			12	23	56.0	+P	51.3				
			12	23	55	+P	51.42	-1	-.7	-4	+1.7
							51.6				
					44.1						
			12	24	44.9	+P	53.2				
					44.4						
			12	24	45.2	+P	53.1				
			12	24	44	+P	53.0	-1	-.7	+2	+3.7
							53.4				
					.1						
			12	24	56.9	+P	37.9				
					6.8						
			12	24	57.6	+P	37.A				
			12	24	56	+P	37.76	-2	-1.7	+1	+2.7
							38.0				
					47.7						
+9	04.8		12	26	48.4	+9	09.2				
+9	27.7		12	26	48.0	+9	39.2				
			12	26	49	+9	09.2	0	+.3	1	+2.7
					50.1						
			12	26	50.8	+9	21.1				
					50.8						
			12	26	51.5	+9	21.1				
			12	26	50	+9	21.1	0	+.3	1	+2.7

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22	41.6	9.4		12	25	31.2	+
	−3.4	−13.6		12	24	31.5	+
	166.4						
	−13.6						
40	2.7	9.1	82608	12	26	11.0	+
	−39.0	−27.7	92639	12	24	57.1	+
	10.4		12 23 53.0 +8 45.5				
	−156.0		12 26 39.1 +9 22.2				
			2 1F.0 −15.0				
41	17.7	4.8					
	−23.8	−32.0					
	71.F						
	−95.2						
24	3.4	−18.6	92639	12	24	57.1	+
	−4.1	32.0	82619	12	29	26.9	+
	13.6		12 26 39.1 +9 22.2				
	−16.4		12 27 8.9 +8 31.6				
			2 1F.0 −15.0				
43	21.5	−9.6	82608	12	26	11.0	+
Comp stars off in R.A.	−25.9	4.2	82619	12	29	26.9	+
	26.0		12 23 53.0 +8 45.5				
	−103.6		12 27 8.9 +8 31.6				
			2 1F.0 −15.0				
42	33.9	−5.5					
	−13.6	8.3					
	135.6						
	−54.4						

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				16.9						
+9	04.8	12	24	17.6	+9	14.2				
				17.0						
+9	27.7	12	24	17.9	+9	14.1				
		12	24	17.7	+9	14.2	1	+1.3	2	+3.7
				21.0						
+8	30.5	12	26	21.8	+8	39.6				
				20.3						
+9	07.2	12	26	21.1	+8	39.5				
		12	26	21	+8	~~39.4~~ 39.6	-3	-2.7	-1	+.7
				21.0						
		12	27	21.8	+8	35.3				
				21.1						
		12	27	21.9	+8	35.2				
		12	27	~~21~~ 22	+8	~~35.1~~ 35.4	-5	-4.7	-3	-1.3
				9.9						
+9	07.2	12	29	10.7	+8	48.6				
				9.7						
+8	16.6	12	29	10.5	+8	48.6				
		12	29	10	+8	~~48.5~~ 48.7	5	+5.3	-3	-1.3
				36.2		21.0				
+8	38.5	12	27	~~37.0~~ 42.5	+8	20.9				
+8	16.6	12	27	43.3	+8	20.8				
		12	27	~~40~~ 39	+8	~~20.8~~ 21.0	-4	-3.7	0	+1.7
				25.8						
		12	28	26.8	+8	25.0				
				31.7						
		12	28	32.5	+8	24.9				
		12	28	~~30~~ 29	+8	~~25.0~~ ~~24.9~~	-3	-2.7	-2	+.7
						(18)	+6	-24	+10	-22
							+81	-247	+284	-98

Comp stars out in R.A.

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393

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29	1.2	−2.9	82604	12 22 22.5	+
	−64.0	40.0	82611	12 26 42.7	+
	4.8		12 20 4.5 +8 49.0		
	−256.0		12 24 24.7 +8 6.1		
			2 18.0 −15.0		
30	13.5	−1.0			
	−51.6	42.0			
	54.0				
	−206.4				
31	13.5	−9.5			
	−51.7	33.4			
	54.8				
	−206.8				
32	18.4	−12.8			
	−46.6	30.2			
	73.6				
	−184.4				
33	22.9	−10.0			
	−42.2	32.9			
	91.6				
	−164.8				
34	26.6	−8.5			
	−38.6	34.5			
	106.4				
	−154.4				

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				26.5		31.3				
+P	34.0	12	22	27.3	+P	31.1				
+7	51.1	12	22	25.9 26.7	+P	31.1	0	+.3	1	+2.7
		12	22	27	+P	31.1 ~~30.9~~ 31.3				
				15.7		33.2				
		12	23	16.5	+P	~~33.0~~				
		12	23	15.5 16.3	+P	33.1 3				
		12	23	16	+P	~~33.0~~ ~~32.8~~ 33.2	-1	-.7	-4	-2.3
				15.7						
		12	23	16.5	+P	24.5				
		12	23	15.1 15.9	+P	24.5				
		12	23	~~16~~ 15	+P	~~24.5~~ ~~24.3~~ 24.7	-1	-.7	-1	+.7
				35.3		4				
		12	23	36.1	+P	21.2				
		12	23	35.5 36.3	+P	21.3 5				
		12	23	36 35	+P	21.2 21.4	-1	-.7	-4	-2.3
				53.3		2				
		12	23	54.1	+P	24.0				
		12	23	53.1 53.9	+P	24.0 2				
		12	23	53	+P	24.0 .2	-1	-.7	-4	-2.3
				8.1		7				
		12	24	08.9	+P	25.5				
		12	24	7.5 08.3	+P	8 25.6				
		12	24	09 8	+P	25.8	-1	-.7	-4	-2.3

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35	32.0	-5.2	12	22	22.5	+
	-33.2	37.7	12	26	42.9	+
	128.0					
	-132.8					
37	37.8	-5.5				
	-27.3	37.5				
	151.2					
	-109.2					
38	49.5	-4.9				
	-15.6	38.0				
	188.0					
	-62.4					
39	50.6	-7.6				
	-14.5	35.2				
	202.4					
	-50.8					
44	55.7	-15.7				
	-9.5	27.1				
	222.8					
	-34.8					
(very faint) 45	53.0	-18.0				
	-12.1	25.0				
	212.8					
	-44.4					

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5	+f	24.0	12	24	29.7 30.5	+f	28.8				
.7	+7	51.1	12	24	29.1 29.9	+f	28.4				
			12	24	~~30~~ 29	+f	~~28.8~~ 28.0	−2	−1.7	−6	−4.3
			12	24	52.9 53.7	+f	28.5				
			12	24	53.7 53.5	+f	28.6				
			12	24	~~54~~ 53	+f	~~28.68~~	−1	−.7	−6	−4.3
			12	25	39.7 40.5	+f	29.1				
			12	25	39.5 40.3	+f	29.1				
			12	25	40	+f	29.13	3	+3.3	−7	−5.4
			12	25	44.1 44.9	+f	26.6				
			12	25	43.9 44.7	+f	26.5				
			12	25	44	+f	26.4 .6	2	+2.3	−6	−4.3
			12	26	04.5 05.3	+f	18.3				
			12	26	03.9 04.7	+f	18.2				
			12	26	04	+f	18.2 .4	1	+1.3	−6	−4.3
			12	25	53.7 54.5	+f	16.0				
			12	25	53.5 54.3	+f	16.1				
			12	25	54	+f	16.4 .2	−1	−.7	0	+1.7

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52	1.0	-22.1	12	22	22.5
	-64.1	20.9	12	26	42.7
	4.0				
	-256.4				
53	11.8	-24.4			
	-53.2	18.5			
	47.2				
	-212.8				
54	7.7	-35.0			
	-57.3	8.0			
	30.8				
	-229.2				
55	17.2	-33.8			
	-47.9	9.1			
	68.8				
	-191.6				
56	17.6	-31.7			
	-47.5	11.3			
	70.4				
	-193.6				
57	20.4	-33.0			
	-44.7	10.0			
	81.6				
	-178.8				

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+P	34.0	12	22	25.7 26.5	+P	11.9			
+7	51.1	12	22	25.5 26.3	+P	12.0			
		12	22	26	+P	12.9 2	2 + 2.3	1	+2.7
		12	23	8.9 09.7	+P	09.6			
		12	23	9.1 09.9	+P	09.6			
		12	23	09	+P	09.6	1 +1.3	-2	-.3
		12	22	52.5 53.3	+7	59.0 2			
		12	22	52.7 53.5	+7	59.1 2			
		12	22	53	+7	59.2	4 +4.3	-2	-.3
		12	23	30.5 31.3	+P	00.2			
		12	23	30.3 31.1	+P	00.2			
		12	23	30	+P	00.2 4	1 +1.3	-2	-.3
		12	23	32.1 32.9	+P	02.5 5			
		12	23	1.9 32.7	+P	02.4 6			
		12	23	32	+P	02.6	1 +1.3	-1	+.7
		12	23	43.3 44.1	+P	01.8			
		12	23	43.1 43.9	+P	01.1			
		12	23	43	+P	01.2	1 +1.3	-2	-.3
						(18)	+16 -9	+2 -57	
							+19.0 -6.6 ✓	+85	-329

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58	23.3	-29.5	12	22	22.5
	-41.9	13.5	12	26	42.7
	93.2				
	-167.6				
49	43.1	-32.8			
	-21.9	10.1			
	172.4				
	- 87.6				
48	43.6	-32.0			
	-21.5	10.9			
	174.4				
	- 86.0				
47	46.0	-26.5			
	-19.0	16.4			
	184.8				
	- 76.8				
46	49.9	-25.0			
	-15.2	18.0			
	199.6				
	- 68.4				
50	59.1	-35.2			
	-6.0	7.7			
	236.4				
	- 24.0				

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1927phae.proj.2311A

	+f	34.0	12	23	55.7 (54.9)	+f	04.5			
7	+7	51.1	12	23	55.1 (54.3)	+f	04.6			
			12	23	55	+f	04.8	1 +1.3	−2	−.3
			12	25	14.9 (14.1)	+f	01.2			
			12	25	15.1 (14.3)	+f	01.2			
			12	25	14	+f	01.4	1 +1.3	−2	−.3
			12	25	16.9 (1)	+f	02.0			
			12	25	16.7 (15.9)	+f	02.0			
			12	25	16	+f	02.2	1 +1.3	0	+1.7
			12	25	26.5 (5.7)	+f	07.5			
			12	25	26.7 (5.9)	+f	07.5			
			12	25	26	+f	07.7	0 +.3	−1	+.7
			12	25	42.1 (1.3)	+f	09.0			
			12	25	41.9 (1.1)	+f	09.1			
			12	25	41	+f	09.2	0 +.3	0	+1.7
			12	26	18.9 (1)	+7	58.8			
			12	26	18.7 (7.9)	+7	58.8			
			12	26	18	+7	58.8 (59.0)	1 +1.3	0	+1.7

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60	1.0 -39.7 4·3 -154·4	24.3 -2.1	72549 82611 12 21 42.4 +7 39.8 12 24 24.7 +8 6.1 2 12.0 -15.0	12	24 ~~2~~ 26 ~~24~~	0.4 00.0 42.7
61	1.6 -39.0 6·4 -156·0	22.7 -3.7				
65	8.3 -32.2 33·2 -124·8	14.4 -12.0				
66	10.5 -30.0 42·0 -120·0	6.0 -20.5				
64	19.0 -21.5 76·0 -86·0	8.7 -17.7				
62	21.3 -19.3 85·2 -77·2	19.2 -7.2				

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				4					
+7	24.8	12	22	04.0 (3)	+7	49.1 (2)			
+7	51.1	12	22	03.9 (2)	+7	49.0 (1)			
		12	24	04 (3)	+7	49.2	+2	+2.3	−6	−4.3
		12	22	06.8 (5)	+7	47.5 (6)				
		12	22	06.7 (5)	+7	47.4 (5)				
		12	24	06	+7	47.6	2	+2.3	−5	−3.3
		12	22	32.5 33.2	+7	39.2 (3)				
		12	22	32.8 33.9	+7	39.1 (2)				
		12	24	33	+7	39.2	0	+.3	−5	−3.3
		12	22	41.3 42.0	+7	30.9 (9)				
		12	22	41.6 42.7	+7	30.6 (7)				
		12	24	41	+7	30.8	0	+.3	−4	−2.3
		12	23	15.3 16.0	+7	33.5 (6)				
		12	23	15.6 16.1	+7	33.4 (5)				
		12	25	15	+7	33.6	−1	−.7	−4	−2.3
		12	23	24.6 25.2	+7	44.0 (1)				
		12	23	24.5 25.5	+7	43.9				
		12	25	25	+7	44.0	2	+2.3	−4	−2.3

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63	28.8	10.8		12	22.4	00.0 4	+
	−11.7	−15.6		12	24.6	42.7	+
	115.2						
	−46.8						
51	36.9	26.2					
	−3.6	−0.2					
	147.6						
	−14.4						
59	16.1	−4.0	82603	12	22	19.3	+
	−9.1	27.7	72549	12	24	00.4	+
	64.4		12 20 1.3 +8 11.6				
	−36.4		12 21 42.4 +7 39.8				
			2 18.0 −15.0				
68	18.0	−20.2					
	−7.2	11.5					
	72.0						
	−28.8						
67	24.0	−26.4					
	−1.2	5.4					
	96.0						
	−4.8						
69	10.3	−25.4					
	−15.0	6.5					
	41.2						
	−60.0						

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				54.5							
+7	24.8	12	23	55.2	+7	35.6					
+7	51.1	12	23	55.7	+7	35.5					
		12	25	56.	+7	35.6	0	+.3	−6	−4.3	
				27.0							
		12	24	27.6	+7	51.0					
				27.3							
		12	24	28.3	+7	50.9					
		12	26	27	+7	51.0	1	+1.3	−2	−.3	
				22.7							
+7	56.6	12	23	23.7	+7	52.6					
				23.0							
+7	24.8	12	23	24.0	+7	52.5					
		12	23	23	+7	52.4	−1	−.7	−5	−3.3	
				30.2							
		12	23	31.3	+7	36.4					
				30.5							
		12	23	31.6	+7	36.3					
		12	23	30	+7	36.4	−3	−2.7	−2	−.3	
				54.2							
		12	23	55.3	+7	30.2					
				4.5							
		12	23	55.6	+7	30.2					
		12	23	54	+7	30.3	−1	−.7	−3	−1.3	
		12	22 23	59 00.5	+7	31.2					
		12	22 23	59 00.4	+7	31.3					
		12	22 23	59 00	+7	31.4	−1	−.7	2	+3.7	
							(18)	+11	−7	+2	−51
								+49	−55	+95	−299

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70	15.8	− 26.7		12	22	19.3 +
	− 9.5	5.1		12	24	00.4 +
	63.2					
	− 38.0					
75	5.4	4.8	72546	12	22	31.2 +
	−17.0	−15.4	72549	12	24	00.4 +
	21.6		12 20 13.2 +7 19.4			
	− 68.0		12 21 42.4 +7 39.8			
			2 18.0 −16.0			
74	7.0	8.2				
	−15.3	−12.2				
	28.0					
	− 61.2					
73	4.5	8.8				
	−17.9	−11.7				
	18.0					
	− 71.6					
72	9.3	17.6				
	−13.1	− 2.8				
	37.2					
	− 52.4					
71	15.0	18.8				
	− 7.4	− 1.6				
	60.8					
	− 29.6					

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+7	56.6	12	23	22.6 (1.4)	+7	29.9				
+7	24.8	12	23	22.4 (1.3)	+7	29.9				
		12	23	22	+7	29.9 (30.0)	−1	−.7	0	+1.7
+7	54.4	12	22	52.8 (1.7)	+7	09.2 (3)				
+7	24.8	12	22	52.4 (1.3)	+7	09.4 (5)				
		12	22	52.7	+7	09.4	0	+.3	0	+1.7
		12	22	59.2 (8.1)	+7	12.6 (7)				
		12	22	59.2 (8.1)	+7	12.6 (7)				
		12	22	58	+7	12.7	0	+.3	1	+2.7
		12	22	49.2 (8.1)	+7	13.2 (3)				
		12	22	48.8 (7.7)	+7	13.1 (2)				
		12	22	48	+7	13.2 ✓	0	+.3	0	+1.7
		12	23	08.4 (7.3)	+7	22.0				
		12	23	08.0 (6.9)	+7	22.0				
		12	23	07	+7	22.0	0	+.3	0	+1.7
		12	23	31.2 (0.1)	+7	23.2				
		12	23	31.4 (0.7)	+7	23.2				
		12	23	30	+7	23.3	0	+.3	1	+2.7

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95	17.6	-5.0	72546	12 22	31.2	+
	-8.6	6.2	72550	12 24	16.4	+
	70.4		12 20 13.2 +7 19.4			
	-34.4		12 21 58.4 +7 8.3			
			2 1A.0 -15.0			
96	24.7	-9.2				
	-1.6	1.8				
	94.8					
	-6.4					
94	25.2	-7.0				
	-1.0	4.1				
	100.A					
	-4.6					
100	7.9	8.0	62615	12 22	34.8	+
	-17.5	-3.0	72550	12 24	16.4	+
	31.6		12 20 16.8 +6 57.3			
	-90.0		12 21 58.4 +7 8.3			
			2 1A.8 -15.0			
101	14.4	0.4				
	-11.1	-10.6				
	57.6					
	-44.4					
102	17.3	0.3				
	-8.1	-10.8				
	69.2					
	-32.4					

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+7	04.4	12	23	41.6	+6	59.4			
+6	53.3	12	23	42.0	+6	59.5			
		12	23	41	+6	59.6	0	+.3	0 +1.7
		12	24	10.0	+6	55.2			
		12	24	10.0	+6	55.1			
		12	24	10	+6	55.4	0	+.3	2 +3.7
		12	24	12.0	+6	57.4			
		12	24	12.4	+6	57.4			
		12	24	12	+6	57.6	0	+.3	2 +3.7
+6	42.3	12	23	06.4	+6	50.3			
+6	53.3	12	23	06.4	+6	50.3			
		12	23	06	+6	50.4	0	+.3	0 +1.7
		12	23	32.4	+6	42.7			
		12	23	32.0	+6	42.7			
		12	23	31	+6	42.8	-2	-1.7	4 +5.7
		12	23	44.0	+6	42.6			
		12	23	44.0	+6	42.5			
		12	23	43	+6	42.6	-1	-.7	2 +3.7

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98	1.6	−5.5	72550	12	24	16.4
	−57.3	27.8	62628	12	2	11.9
	6.4		12 21 58.4 +7 8.3			
	−229.2		12 25 53.7 +6 34.9			
			2 14.0 −15.0			
103	8.2	−13.0				
	−50.6	20.4				
	32.4					
	−202.4					
104	14.7	−18.8				
	−44.2	14.7				
	58.4					
	−176.4					
105	6.1	−24.4				
	−52.5	9.0				
	24.4					
	−218.0					
106	8.6	−28.6				
	−50.3	4.9				
	34.4					
	−201.2					
108	21.0	−30.2				
	−37.9	3.1				
	54.0					
	−151.6					

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4	+6	53.3	12	24	22.2 (D)	+6	47.8			
.7	+6	19.9	12	24	22.3	+6	47.7			
			12	24	22	+6	47.9	0	+.3	1 +2.7
			12	24	49.2 (8.4)	+6	40.3			
			12	24	49.3 (8.5)	+6	40.3			
			12	24	48	+6	40.4	−1	−.7	2 +3.7
			12	25	15.2 (4.4)	+6	34.5			
			12	25	14.9 (4.1)	+6	34.6			
			12	25	14	+6	34.6	−1	−.7	−2 −.3
			12	24	40.2 (0)	+6	28.9			
			12	24	41.7 (0.9)	+6	28.9			
			12	24	40	+6	29.0	1	+1.3	0 +1.7
			12	24	50.8 (3)	+6	24.7			
			12	24	50.5 (0)	+6	24.8			
			12	24	50	+6	24.9	3	+3.3	1 +2.7
			12	25	40.4 (39.9)	+6	23.1 (2)			
			12	25	40.1 (39.6)	+6	23.0 (1)			
			12	25	40	+6	23.2	0	+.3	−1 +.7

(18) +4 −6 +16 −3

+79 −45 +534 −3

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89	25.8	−5.3		12	24	16.4	+
	−33.0	28.2		12	24	11.7	+
	133.2						
	−132.8						
90	23.0	−13.4					
	−36.0	20.0					
	92.8						
	−144.8						
91	21.7	−16.1					
	−37.2	17.3					
	86.8						
	−148.8						
88	42.7	−8.3					
	−16.2	25.1					
	170.8						
	−64.8						
87	52.2	−32.4					
	−6.7	1.0					
	208.8						
	−26.8						
111	3.6	−25.8	62615	12	22	34.8	+
	−16.4	4.2	62617	12	23	54.8	+
	14.4		12 20 16.8 +6 57.3				
	−65.6		12 21 36.8 +6 27.3				
			2 18.1 −15.1				

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					58.5						
+	+6	63·3	12	25	59.6	+6	48.0				
	+6	19·9	12	25	58.6 59.7	+6	48.1				
			12	25	60	+6	48.1	−1	−.7	−2	−.3
				25	59						
					7.6						
			12	25	48.4	+6	39.9				
					6.9						
			12	25	47.7	+6	39.9				
			12	25	47	+6	39.9 40.0	−1	−.7	−1	+.7
					42.4						
			12	25	43.2	+6	37.2				
					42.1						
			12	25	42.9	+6	37.2				
			12	25	42	+6	37.3	−1	−.7	−1	+.7
					0.4						
			12	27	07.2	+6	45.0				
					6						
			12	27	06.9	+6	45.0				
			12	27	06	+6	45.1	−3	−2.7	−6	−4.3
					44.7						
			12	27	45.2	+6	20.9				
					44.4						
			12	27	44.9	+6	20.9				
			12	27	45	+6	20.8	1	+1.3	0	+1.7
					8.7						
1.8	+6	42·3	12	22	49.2	+6	16.5				
1.8	+6	12·3	12	22	49.2	+6	16.5				
			12	22	49	+6	16.6	0	+.3	0	+1.7

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76	8.5	-9.7	72549	12	24	00.4
	-37.5	27.5	72553	12	27	04.4
	34.0		12 21 42.4 +7 39.8			
	-150.8		12 24 46.4 +7 2.8			
			2 1F.0 -15.0			
77	8.3	-12.0				
	-37.6	25.0				
	33.2					
	-150.4					
78	17.6	-10.8				
	-28.4	26.3				
	70.4					
	-113.6					
79	24.2	-8.7				
	-21.8	28.2				
	96.F					
	-F7.2					
80	38.0	-2.7				
	-8.0	34.3				
	152.3					
	-32.0					
81	35.7	-16.4				
	-10.2	20.6				
	142.F					
	-40.F					

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	+7	24.f	12	24	34.4 (3.3)	+7	15.1			
	+6	47.f	12	24	34.4 (3.3)	+7	15.3			
			12	24	34 (3)	+7	15.2 (3)	1 +1.3	−7	−5.3
			12	24	33.6 (2.5)	+7	12.f			
			12	24	34.0 (3.0)	+7	12.8			
			12	24	34 (3)	+7	12.9	1 +1.3	−7	−5.3
			12	25	10.f (9.7)	+7	14.6			
			12	25	10.f (9.7)	+7	14.7			
			12	25	10	+7	14.2	1 +1.3	−4	−2.3
			12	25	37.2 (6.1)	+7	16.3			
			12	25	37.2 (6.1)	+7	16.0			
			12	25	36	+7	16.2	−2 −1.7	−3	−1.3
			12	26	32.4 (1.3)	+7	22.1			
			12	26	32.4 (1.3)	+7	22.1			
			12	26	31	+7	22	−2 −1.7	−2	−.3
			12	26	23.2	+7	04.4			
			12	26	23.6	+7	04.4			
			12	26	12	+7	04.5	−2 −1.7	−11	−9.3

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92	4.5	-22.8		12	24	00.4	+
	-41.4	14.2		12	27	04.4	+
	18.0						
	-165.6						
93	4.3	-27.5					
	-41.6	9.6					
	17.2						
	-166.4						
97	5.9	-30.7					
	-40.0	6.3					
	23.6						
	-160.0						
99	11.1	-30.2					
	-34.8	6.8					
	44.4						
	-139.2						
82	24.8	-40.8	82611	12	26	42.7	+
	-13.8	13.6	72555	12	29	16.9	+
	99.2		12 24 24.7 +8 6.1				
	-55.2		12 26 58.9 +7 11.6				
			2 1A.0 -15.0				
85	10.3	25.5	62628	12	2A	11.7	+
	-6.1	-11.0	72555	12	29	16.9	+
	41.2		12 25 53.7 +6 34.9				
	-24.4		12 26 58.9 +7 11.6				
			2 1A.8 -15.0				

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1927phae.proj.23.17A

4	+7	24.8	12	24	17.3 17.4	+7	02.0				
.4	+6	47.8	12	24	17.7 17.4	+7	02.0				
			12	24	18	+7	02.0	2	+2.3	−8	−6.3
			12	24	18.6	+6	57.3				
			12	24	18.0	+6	57.4				
			12	24	18	+6	57.5	3	+3.3	−8	−6.3
			12	24	22.9 24.0	+6	54.1				
			12	24	23.3 24.4	+6	54.1				
			12	24	24	+6	54.2	2	+2.3	−8	−6.3
			12	24	3.7 44.4	+6	54.6 7				
			12	24	4.1 45.2	+6	54.6 7				
			12	24	45	+6	54.7	2	+2.3	−7	−5.3
.7	+7	51.1	12	24	20.8 21.9	+7	10.3 4				
9	+6	56.6	12	24	20.6 21.7	+7	10.2 3				
			12	24	21	+7	10.4	0	+.3	−2	−.3
.7	+6	19.9	12	24	1.8 52.9	+6	45.4 5				
9	+6	56.6	12	24	1.4 52.5	+6	45.6 7				
			12	24	52	+6	45.6	−1	−.7	2	+3.7
						(+18)		+13	−13	+2	−77
								+160	−106	+85	−614

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1927phae.proj.231A

84	5.9	-5.0	72555	12	29	16.9 +
	-6.0	33.7	62632	12	30	04.3 +
	23.6		12 26 58.9 +7 11.6			
	-24.0		12 27 46.3 +6 32.8			
			2 1A.0. -15.0			
83	+17.3	-3.7				
	+5.4	35.0				
	69.2					
	21.6					
86	10.9	-30.6				
	-0.9	8.0				
	43.6					
	- 3.6					
110	4.5	-1.8	62617	12	23	54.8 +
	-31.2	33.3	52638	12	26	17.2 +
	1A.0		12 21 36.8 +6 27.3			
	-124.A		12 23 59.2 +5 52.1			
			2 1A.0 -15.0			
112	6.1	-18.2				
	-29.6	16.9				
	24.4					
	-11A.4					
113	14.4	-35.8				
	-21.3	- 0.6				
	57.6					
	- A5.2					

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1927phae.proj.231A

+6	56.6	12	29	40.5	+6	51.6				
+6	17.A	12	29	40.3	+6	51.5				
		12	29	40	+6	51.6				
		12	30	26.1	+6	52.9				
		12	30	25.9	+6	52.A				
		12	30	26	+6	52.8				
		12	30	39.7 30 0.5	+6	26.0				
		12	30	59.9 00.7	+6	25.A				
		12	30	01	+6	25.9	1	+1.3	2	+3.7
			20	00.		26.0				
+6	12.3	12	24	12.3 A	+6	10.6 5				
+5	37.1	12	24	1.9 12.4	+6	5 10.4				
		12	24	12	+6	10.4	0	+.3	0	+1.7
		12	24	8.7 19.2	+5	2 54.1				
		12	24	8.3 18.A	+5	1 54.0				
		12	24	18	+5	54.2	0	+.3	0	+1.7
		12	24	51.9 52.4	+5	36.5				
		12	24	51.5 52.0	+5	36.5				
		12	24	52	+5	36.6	0	+.3	3	+4.7

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1927phae.proj.231A

114	34.3	-34.0		12	23	54.8
	-11.4	1.2		12	26	17.2
	137.2					
	-45.6					
107	17.0	6.3	62617	12	23	54.8
	- 0.9	-8.0	62620	12	25	06.7
	64.0		12 21 36.8 +6 27.3			
	- 3.6		12 22 48.7 +6 41.5			
			2 14.0 -15.0			
109	11.7	1.5				
	-6.2	-12.7				
	46.4					
	- 24.4					

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1927phae.proj.2311A

+6 12.3 12 26 12.0 +5 3 A.3

+5 37.1 12 26 11.6 +5 3 A.3

12 26 12 +5 32.3 0 +3 −1 +.7

+6 12.3 12 25 02.A

+6 26.6 12 20 03.1

12 25 02 −1 +.7

12 24 41.6

12 24 41.9

12 24 41 1 +2.7

+6 −2

27.7

0.24

0.1

+43 −23.4

−19.1

Mean sys diff:

−38

−0.3 ± 1.2

Mean sys diff:

−0.17 ± .25

+28 −7

+159 −0

731

+69.9 −73.1

14.18

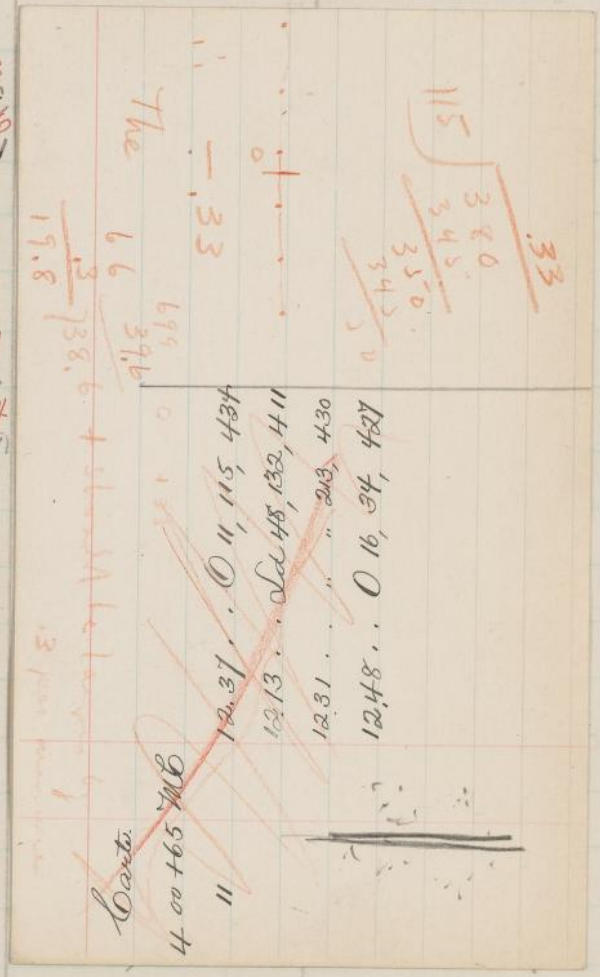
+14.53 −14.18

28.71 ± .25

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+6	12.3	12	26	12.0	+5	34.3			
+5	37.1	12	26	11.6	+5	34.3			
		12	26	12	+5	32.3	0 +3	-1	+.7
+6	12.3	12	25	02.8					
+6	26.5	12	25	03.1				-1	+.7
		12	25	02					
		12	24	41.6					
		12	24	41.9					
		12	24	41				1	+2.7
								+6	-2



27.7

0'.24
0'.1

+51 −89
−38

+4.3 −23.4
−19.1

Mean sys diff:

$-0^{s}.3 \pm 1.2$

Mean sys diff:

$-8'.17 \pm .25$

+28 −7'

+159 −0

731
+69.9 −73.1
1430 ±1.2

14.18'
+14.53 −14.18'
28.71 ±.25'

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1927phae.proj.2317A

+6	12·3	12	26′	12:0	+5	3A·3				
+5	37·1	12	27′	11·6	+5	3A·3				
		12	26	12	+5	3A·3	0	+3	−1	+.7
+6	12·3	12	25′	02·A	+6	1A·6				
+6	26·5	12	25′	03·1	+6	1A·6				
		12	25	02	+6	1A·6	0	+3	−1	+.7
		12	24	41·6	+6	13·A				
		12	24	41·9	+6	13·A				
		12	24	41	+6	13·9	−1	−.7	1	+2.7
						(7)	+1	−1	+6	−2

Totals. No. 115 — 140 — 27.7

Mean diff 1.2′ — 0.′24

" deviation 0.6′ — 0.′1

+51 −89 — +43 −23.4

−38 — −19.1

Mean sys diff: — Mean sys diff:

−0.′3 ±1.2′ — −0.′17 ±.25′

+28 −7′ — +159 −0

731 — 14.′18

+69.9 −73.1 — +14.53 −14.18

1430 ±1.2 — 28.71 ±.25′

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A6720 Section B.

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1	11.2	-5.0	152479
	-0.8	16.5	142518
			12 27 37.5 +15 17.6
			12 28 26.5 +14 55.9
2	46.7	19.6	142516
	-18.7	-2.9	152491
			12 27 23.6 +14 46.1
			12 31 52.2 +15 8.6
4	54.5	7.5	
	-11.0	-15.1	
5	22.2	3.5	
	-43.2	-18.9	
3	10.0	16.8	142523
	-40.5	-3.8	142533
			12 31 17.8 +14 36.4
			12 34 44.9 +14 57.0
6	9.8	6.0	
	-40.6	+14.6	

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1927phae.proj.291A

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1927phae.proj.231A

A 6720 Section C

1	11.1	−5.2	142507	12	24	01.5	+
	−9.3	24.0	142509	12	25	25.2	+
	45.5		12 21 44.6 +14° 45.1				
	−38.1		12 23 8.3 +14° 15.9				
			2 16.9 −15.0				
3	15.0	−12.3	142501	12	20	49.0	+
	−27.7	28.7	132540	12	23	44.3	+
	61.5		12 18 32.0 +14 34.3				
	−113.6		12 21 27.3 +13 53.4				
			2 17.0 −15.0				
2	32.0	−11.6					
	−10.8	29.3					
	131.2						
	−44.3						
4	29.8	−20.3					
	−13.0	20.7					
	122.2						
	−53.3						
5	33.6	−16.0					
	−9.3	24.9					
	137.8						
	−38.1						
7	11.1	−31.8					
	−31.8	9.2					
	45.5						
	−130.4						

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1927phae.proj.2317A

5	+14° 30.1	12	24	47.0	14	24.9
2	+14° 00.9	12	24	47.1	14	24.9
		12	24	47	+14	24.9
0	+14 19.3	12	21	50.5	+14	07.6
3	+13 34.4	12	21	50.7	+14	07.1
		12	21	51	+14	07.0
		12	23	00.2	+14	07.7
		12	23	00.2	+14	07.7
		12	23	00	+14	07.7
		12	22	51.2	+13	59.0
		12	22	51.0	+13	59.1
		12	22	51	+13	59.0
		12	23	06.4	+14	03.3
		12	23	06.2	+14	03.3
		12	23	06	+14	03.3
		12	21	34.5	+13	47.5
		12	21	33.9	+13	47.6
		12	21	34	+13	47.6

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8	11.6	−32.6		12 20 49.0	+
	−31.3	8.4		12 23 44.3	+
	47.6				
	−12A.3				
6	15.2	9.5	132540	12 23 44.3	+13
	−9.3	−13.0	142509	12 25 25.3	+1
	62.3		12 21 27.3 +13 53.4		
	− 3F.1		12 23 8.3 +14 15.9		
			2 17.0 −15.0		
9	0.8	−5.4	132532	12 20 14.2	+1
	−40.0	35.0	132538	12 23 01.0	+1
	3.3		12 17 57.2 +13 57.5		
	−164.0		12 20 44.0 +13 17.2		
			2 17.0 −15.0		
15	16.4	−22.5			
	−24.5	17.7			
	67.2				
	−100.4				
14	18.0	−24.6			
	−22.8	15.7			
	73.2				
	− 93.5				
11	40.7	−15.0			
	−0.0	25.3			
	166.9				
	−0.0				

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	+14	19.3	12	21	36.6	+13	46.7
	+13	3f.4	12	21	36.0	+13	46.8
			12	21	36	+13	46.8
3	+13	3 f.4	12	24	46.6	+13	47.9
3	+14	00.9	12	24	47.2	+13	47.9
			12	24	47	+13	47.9
.2	+13	42.5	12	20	17.5	+13	37.1
0	+13	02.2	12	20	17.0	+13	37.2
			12	20	17	+13	37.2
			12	21	21.4	+13	20.0
			12	21	20.6	+13	19.9
			12	21	21	+13	20.0
			12	21	2f.0	+13	17.9
			12	21	27.5	+13	17.9
			12	21	2f	+13	17.9
			12	23	01.1	+13	27.5
			12	23	01.0	+13	27.5
			12	23	01	+13	27.5

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1927phae.proj.2311A

16	11.5	−35.5		12	20	14.2
	−29.4	4.7		12	23	01.0
	47.1					
	−120.5					
17	19.6	−38.3				
	−21.1	2.0				
	40.4					
	−46.5					
10	6.7	−6.7	18 25 40	12	23	44.3
	−23.2	29.8	13 25 45	12	25	46.3
	27.5		12 21 27.3 +13 53.4			
	−95.1		12 23 29.3 +13 16.9			
			2 17.0 −15.0			
13	2.8	−25.5				
	27.0	11.0				
	11.5					
	110.7					
12	9.4	−23.9				
	−20.5	12.6				
	32.5					
	−84.0					
25	19.3	−36.5				
	−10.5	0.0				
	79.1					
	−43.0					

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1927phae.proj.2312A

2	+13	42.5	12	21	01.3	+13	07.0
2	+13	02.2	12	21	00.5	+13	06.9
			12	21	01	+13	07.0
			12	21	34.6	+13	04.2
			12	21	34.5	+13	04.2
			12	21	35	+13	04.2
3	+13	31.4	12	24	11.1	+13	31.7
3	+13	01.9	12	24	11.2	+13	31.7
			12	24	12	+13	31.7
			12	23	55.5	+13	12.9
			12	23	55.6	+13	12.9
			12	23	56	+13	12.9
			12	24	22.8	+13	14.5
			12	24	22.3	+13	14.5
			12	24	23	+13	14.5
			12	25	03.4	+13	01.9
			12	25	03.3	+13	01.9
			12	25	03	+13	01.9

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1927phae.proj.2317A

24	20.9	#1.9	122477	12	23	29.6	+1
	−12.6	#19.7	132545	12	25	46.3	+
	−05.7		12 21 12.6 +12 53.4				
	+51.7		12 23 29.3 +13 16.9				
			2 17.0 −15.0				
23	29.8	#8.6					
	−3.7	−13.0					
	122.2						
	−15.2						
These 18	30.8	24.6	122465	12	20	15.3	+1
measures	−9.7	−9.9	132538	12	23	01.0	+1
are	126.3		12 17 58.3 +12 42.7				
all	−39.4		12 20 44.0 +13 17.2				
reversed.			2 17.0 −15.0				
They must 19	19.7	20.5					
be taken	−20.7	−13.9					
in the	40.4						
reverse	−04.9						
order							
and 21	23.9	15.5					
into	−16.6	−19.0					
opposite	90.0						
signs.	−66.1						
22	7.0	21.8					
	−33.5	−12.8					
	24.7						
	−137.4						

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6	+12	40 44	12	24	55.3	+12	42.3	12	24	21.3	+13	0.1
3	+13	01.9	12	24	54.6	+13	42.2	12	24	20.6	+13	0
			12	24	55	+13	42.2	12	24	21	+13	00.0

			12	25	31.8	+12	49.0							
			12	25	31.4	+13	48.9							
			12	25	31	+12	49.0							

3	+12	29.7	12	22	21.6	+12	52.3	12	20	55.1				
0	+13	02.2	12	22	21.2	+12	52.3	12	20	54.7				
			12	22	21	+12	52.3	12	20	55				

			12	21	36.1	+12	49.2	12	21	40.2				
			12	21	36.1	+12	48.3	12	21	40.2				
			12	21	36	+12	49.2	12	21	40				

			12	21	53.3	+12	43.2	12	21	23.4				
			12	21	52.9	+12	43.2	12	21	23.0				
			12	21	53	+12	43.2	12	21	23				

			12	20	44.0	+12	49.5	12	22	32.7				
			12	20	43.6	+12	49.4	12	22	32.3				
			12	20	44	+12	49.4	12	22	32				

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33.	6.0	11.4		12	20	55.3 +
	-34.5	-23.0		12	23	01.0 +
	24.6					
	-141.4					
32	0.2	11.0				
	-40.3	-23.5				
	0.2					
	-165.2					
34	10.9	2.7				
	-29.5	-31.8				
	44.7					
	-121.0					
31	6.7	#9.7	122467	12	21	05.6 +
	-15.4	- 8.6	122477	12	23	29.6 +
	- 27.5		12 19 41.6 +12 37.0			
	+ 63.1		12 21 12.6 +12 55.4			
			2 17.0 -15.8			
30	3.3	#10.9				
	-18.8	+ 7.5				
	- 13.5					
	+ 77.1					
28	1.8	-5.1	122477	12	23	29.6 +
	-39.8	15.8	122483	12	26	20.5 +
	7.4		12 21 12.6 +12 55.4			
	-163.2		12 24 3.5 +12 34.4			
			2 17.0 -15.8			

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3	+12	27.7	12	20	39.9	+12	39.1	12	22	36.7		
0	+13	02.2	12	20	39.6	+12	39.2	12	22	36.4		
			12	20	40	+12	39.2	12	22	37		
			12	20	16.1	+12	31.7	12	23	0,5		
			12	20	15.8	+12	31.7	12	23	0,3		
			12	20	16	+12	31.7	12	23	0		
			12	21	00.0	+12	30.4	12	22	16,3		
			12	21	00.0	+12	30.4	12	22	16,3		
			12	21	00	+12	30.4	12	22	16		
6	+12	22.0	12	22	26.1	+12	31.7 31.8	12	23	02.1		
6	+12	40.4	12	22	26.5	+12	31.8	12	23	01.7		
			12	22	26	+12	31.8	12	23	2		
			12	22	12.6	+12	32.9	12	23	16.1	+12	29.5
			12	22	12.5	+12	32.9	12	23	15.7	+12	29.5
			12	22	12	+12	32.9	12	23	16	+12	29.5
6	+12	40.4	12	23	37.0	+12	35.3					
5	+12	19.4	12	23	37.3	+12	35.2					
			12	23	37	+12	35.2					

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1927phae.proj.2317A

29	0,4	−7.2	12 23 29.6 +
	−41.3	13.8	12 26 20.5 +
	1·6		
	−169·3		
27	18.5	−4.4	
	−23.1	16.5	
	75·f		
	− 94.7		
26	32.2	−0,7	
	−9.4	20.3	
	132·0		
	− 34·5		
38	16.4	−16.4	
	−25.2	4.5	
	67·2		
	−10 3·3		
39	12.9	−19.4	
	−28.7	1.5	
	52·9		
	−117.7		
37	18.6	−18.0	
	−23.0	2.9	
	76·3		
	− 94.3		

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1927phae.proj.2315A

+12	40.4	12	23	31.2	+12	33.2
+12	19.4	12	23	31.2	+12	33.2
		12	23	31	+12	33.2
		12	24	45.4	+12	36.0
		12	24	45.8	+12	35.9
		12	24	46	+12	36
		12	25	41.6	+12	39.7
		12	25	42.0	+12	39.7
		12	25	42	+12	39.7
		12	24	36.8	+12	24.0
		12	24	37.2	+12	23.9
		12	24	37	+12	24.0
		12	24	22.5	+12	21.6
		12	24	22.8	+12	23.9
		12	24	23	+12	21.0
		12	24	45.9	+12	22.4
		12	24	46.2	+12	22.3
		12	24	46	+12	22.4

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1927phae.proj.23...A

36	23.8	−18.3		12	23	29.6	+1
	−17.8	2.6		12	26	20.5	+1
	97.6						
	−73.0						
35	24.9	−20.6					
	−16.7	0.3					
	102.1						
	−64.5						
45	3.1	31.4	112467	12	24	25.1	+11
Corrected from 4 D.M. stars.	−25.0	−6.1	122483	12	26	20.5	+1
	12.7		12 22 8.1 +11 56.1				
	−102.5		12 24 3.5 +12 3~~4.4~~ 3.6				
			2 17.0 −15.0				
44	5.6	32.3					
	−22.4	−5.3					
	23.0						
	−91.6						
43	7.9	31.4					
	−20.3	−6.2					
	32.4						
	−83.2						
41	6.8	34.0					
	−21.2	−3.5					
	27.9						
	−86.9						

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1927phae.proj.2317A

+12	40.4	12	25	07.2	+12	22.1
+12	19.4	12	25	07.5	+12	22.0
		12	25	07	+12	22.0
		12	25	11.7	+12	19.8
		12	25	12.0	+12	19.7
		12	25	12	+12	19.8
+11	41.1	12	24	37.8	+12	12.5
+12	18.6	12	24	38.0	+12	12.5
		12	24	38	+12	12.5
		12	24	48.1	+12	13.4
		12	24	48.7	+12	13.3
		12	24	48	+12	13.4
		12	24	57.5	+12	12.5
		12	24	57.3	+12	12.4
		12	24	57	+12	12.4
		12	24	53.0	+12	15.1
		12	24	53.6	+12	15.1
		12	24	53	+12	15.1

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1927phae.proj.23178A

40	10.5	36.4	12	24	25.1	+1
	−17.7	−1.2	12	26	20.5	+1
	43.0					
	− 72.6					
42	21.3	29.7				
	−6.9	−7.9				
	87.3					
	− 24.3					
47	5.7	23.2				
	−22.5	−14.4				
	23.4					
	− 92.2					
46	15.8	23.1				
	−12.5	−14.5				
	64.8					
	− 51.2					
50	6.3	19.0				
	−22.0	−18.4				
	25.8					
	− 90.2					
51	12.0	11.2				
	−16.2	−26.4				
	49.2					
	− 66.4					

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1927phae.proj.2317A

+1X	41.1	12	25	08.1	+12	17.5
+12	12.6	12	25	07.9	+12	17.4
		12	25	08	+12	17.4
		12	25	52.4	+12	10.2
		12	25	52.2	+12	10.7
		12	25	52	+12	10.8
		12	24	48.5	+12	04.3
		12	24	48.3	+12	04.2
		12	24	48	+12	04.2
		12	25	29.9	+12	04.2
		12	25	29.3	+12	04.1
		12	25	30	+12	04.2
		12	24	50.9	+12	00.1
		12	24	50.3	+12	00.2
		12	24	51	+12	00.2
		12	25	14.3	+11	52.3
		12	25	14.1	+11	52.2
		12	25	14	+11	52.2

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1927phae.proj.23.1A

52	8.2	10.7	12	24	25.1
	-20.0	-26.8	12	26	20.5
	33.6				
	- 12.0				
53	5.3	10.6			
	-22.8	-26.9			
	21.7				
	- 93.5				
54	16.3	3.4			
	- 11.8	-34.0			
	66.f				
	- 4f.0				
55	13.7	3.5			
	-14.4	-34.0			
	56.2				
	- 59.0				
56	9.2	6.1			
	-18.9	-31.4			
	37.7				
	- 77.5				
57	1.0	4.6			
	-27.1	-32.9			
	4.1				
	-111.1				

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1927phot..proj..29..A

	+11	41.1	12	24	51.7 + 11	51.8
	+12	14.6	12	24	51.5 + 11	51.8
			12	24	59 + 11	51.8
			12	24	46.8 + 11	51.7
			12	24	47.0 + 11	51.7
			12	24	47 + 11	51.7
			12	25	31.9 + 11	44.5
			12	25	32.5 + 11	44.6
			12	25	32 + 11	44.6
			12	25	21.3 + 11	44.6
			12	25	21.5 + 11	44.6
			12	25	21 + 11	44.6
			12	25	02.8 + 11	47.2
			12	25	03.0 + 11	47.2
			12	25	03 + 11	47.2
			12	24	29.2 + 11	45.9
			12	24	29.4 + 11	45.7
			12	24	29 + 11	45.7

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1927phae.proj.231A

48	35.3	−15.0	122467	12	21	5A.6	+
	−0.4	25.8	112467	12	24	25.1	+
	144.7		12 19 41.6 +12 37.0				
	− 1.6		12 22 8.1 +11 56.1				
			2 17.0 − 15.0				
49	29.7	−17.9					
	− 6.0	23.0					
	121.A						
	− 24.6						
61	4.0	−2.2					
	−31.6	38.8					
	16.4						
	− 129.6						
60	8.5	−1.4					
	−27.1	39.5					
	34.E						
	− 111.1						
65	12.0	−11.8					
	−23.8	29.0					
	49.2						
	− 97.6						
66	10.5	−22.7					
	−25.1	18.2					
	43.0						
	− 102.9						

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1927phae.proj.2317A

6	+ 12	22.0	12	24	23.3	+ 12	07.0
1	+ 11	41.1	12	24	23.5	+ 12	06.9
			12	24	23	+ 12	07
			12	24	00.4	+ 12	04.1
			12	24	00.5	+ 12	04.1
			12	24	00	+ 12	04.1
			12	22	15.0	+ 12	19.8
			12	22	15.5	+ 12	19.9
			12	22	15	+ 12	19.8
			12	22	33.4	+ 12	20.6
			12	22	34.0	+ 12	20.6
			12	22	34	+ 12	20.6
			12	22	47.8	+ 12	10.2
			12	22	47.5	+ 12	10.1
			12	22	48	+ 12	10.2
			12	22	41.6	+ 11	59.3
			12	22	42.2	+ 11	59.3
			12	22	42	+ 11	59.3

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1927phae.proj.2311A

67	2.0	-28.3		12 21 54.6	+1
	-33.6	12.7		12 24 25.1	+1
	A.2				
	-137.F				
64	22.9	-19.0	122462	12 18 37.3	+1
	-37.7	17.0	122472	12 22 45.6	+1
	93.9		12 16 20.3 +12 43.6		
	-104.0		12 20 28.6 +12 7.6		
			2 17.0 -15.0		
63	25.3	-15.0			
	-35.2	20.9			
	103.7				
	-144.3				
62	38.5	-8.8			
	-22.2	27.2			
	159.A				
	-91.0				
59	10.9	-5.0	112467	12 24 25.2	+1
	-4.3	20.9	112468	12 25 27.1	+1
	44.7		12 22 8.1 +11 56.1		
	-17.6		12 23 10.6 +11 30.2		
			2 17.1 -15.0		
58	13.5	-7.2			
	-1.8	18.7			
	55.4				
	-9.4				

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1927phae.proj.231A

	+12	22.0	12	22	06.8	+11	53.7
	+11	41.1	12	22	06.3	+11	53.8
			12	22	07	+11	53.8
3	+12	28.6	12	20	11.2	+12	09.6
6	+12	52.6	12	20	11.6	+12	09.6
			12	20	11	+12	09.6
			12	20	21.0	+12	13.6
			12	20	21.3	+12	13.5
			12	20	21	+12	13.6
			12	21	15.1	+12	19.8
			12	21	14.6	+12	19.8
			12	21	15	+12	19.8
2	+11	41.1	12	25	09.9	+11	36.1
1	+11	15.2	12	25	09.5	+11	36.1
			12	25	10	+11	36.1
			12	25	20.6	+11	33.9
			12	25	19.7	+11	33.9
			12	25	20	+11	33.9

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1927phae.proj.231A

71	3.2	-22.6		12	24	25.2	+1
	-12.0	~~-~~13.3		12	25	27.1	+1
	13.1						
	-49.2						
20	21.7	-29.9	132528	12	14	16.1	+1
	-7.5	14.5	122465	12	20	15.3	+1
	29.0		12 15 59.1 +13 27.0				
	-20.4		12 17 58.3 +12 42.7 ✓				
			2 17.0 -15.0				
76	2.4	3.1	112463	12	21	56.4	+1
	-33.7	-39.7	112467	12	24	25.2	+
	9.4		12 19 39.7 +11 13.4				
	-134.2		12 22 8.1 +11 56.1 ✓				
			2 17.1 -15.0				
75	9.7	12.2					
	26.4	-30.6					
	39.4						
	104.2						
74	11.4	15.7					
	-24.7	-27.0					
	46.7						
	~~-100.8~~ 101.3						
69	13.8	27.5					
	-22.3	-15.2					
	56.6						
	-91.4						

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	+11	41.1	12	24	38.3	+11	18.5
	+11	15.2	12	24	37.9	+11	18.5
			12	24	38	+11	18.5
1	+13	12.0	12	19	45.1	+12	42.1
3	+12	27.7	12	19	44.5	+12	42.2
			12	19	45	+12	42.2
A	+10	54.4	12	22	06.6	+11	01.5
2	+11	41.1	12	22	07.0	+11	01.4
			12	22	07	+11	01.4
			12	22	36.6	+11	10.6
			12	22	37.0	+11	10.5
			12	22	37	+11	10.6
			12	22	43.5	+11	14.1
			12	22	44.2 (39)	+11	14.1
			12	22	44	+11	14.1
			1				
			12	22	53.4	+11	25.9
			12	22	53.8	+11	25.9
			12	22	54	+11	25.9

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1927phae.proj.2317A

73	24.7	16.0		12	21	56.A	+
	−11.4	−26.8		12	24	25.2	+
	101.3						
	− 46.7						
72	29.9	23.2					
	−6.3	−19.5					
	122.6						
	− 25.8						
70	36.0	30.1					
	−0.1	−12.5					
	147.6						
	− 0.4						
68	13.5	1.5	112460	12	20	46.9	+11
	75.5	−24.7	122472	12	22	45.6	+11
	55.4		12 18 29.9 +11 41.5				
	− 63.6		12 20 28.6 +12 7.6				
			2 17.0 −16.0				
77	24.2	−1.0	112463	12	21	56.9	+1
	−22.1	17.4	102430	12	25	06.9	+1
	99.2		12 19 39.7 +11 13.4				
	− 90.6		12 22 49.7 +10 55.0				
			2 17.2 −15.0				
78	38.8	−1.6					
	−7.5	16.8					
	159.1						
	− 30.8						

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	+10	58.4	12	23	38.1	+11	14.4
2	+11	41.1	12	23	38.5	+11	14.3
			12	23	38	+11	14.4
			12	23	5 49.4	+11	21.6
			12	23	59.4	+11	21.6
			12	23	59	+11	21.6
			12	24	24.4	+11	28.5
			12	24	24.8	+11	28.6
			12	24	25	+11	28.6
.4	+11	26.5	12	21	42.3	+11	28.0
.6	+11	52.6	12	21	42.0	+11	27.9
			12	21	42	+11	28.0
.9	+10	58.4	12	23	36.1	+10	57.4
.9	+10	40.0	12	23	36.3	+10	57.4
			12	23	36	+10	57.4
			12	24	36.0	+10	56.8
			12	24	36.1	+10	56.8
			12	24	36	+10	56.8

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1927phae.proj.231A

				12	21	56.9	+1
85	33.5	−16.4		12	25	06.9	+1
	−12.7	2.0					
	137.4						
	− 52.1						
79	2.7	18.9	102430	12	25	06.9	+1
	−22.4	−14.9	112471	12	26	49.9	+1
	11.1		12 22 49.7 +10 55.0				
	− 91.8		12 24 32.7 +11 28.8				
			2 17.2 −15.0 ✓				
80	3.7	24.8					
	−21.4	−9.0					
	10.2						
	− 87.7						
81	13.8	0.6					
	−11.2	−33.2					
	56.6						
	− 45.9						
88	5.6	−3.7	102423	12	22	04.4	+1
	−5.4	37.0	102427	12	22	53.3	+1
	23.0		12 19 51.1 +10 50.2				
	− 22.1		12 20 36.0 +10 9.6				
			2 17.3 −15.0 ✓				
89	6.0	−4.5					
	−5.0	36.2					
	24.6						
	− 20.5						

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	+10	58.4	12	24	14.3	+10	42.0
	+10	40.0	12	24	14.4	+10	42.0
			12	24	15	+10	42.0
7	+10	40.0	12	25	18.0	+10	58.9
7	+11	13.4	12	25	18.1	+10	58.9
			12	25	18	+10	58.9
			12	25	22.1	+11	04.4
			12	25	22.2	+11	04.4
			12	25	22	+11	04.8
			12	26	03.5	+10	40.6
			12	26	04.0	+10	40.6
			12	26	04	+10	40.6
4	+10	35.2	12	22	31.4	+10	31.5
-3	+9	54.6	12	22	31.2	+10	31.6
			12	22	31	+10	31.6
			12	22	33.0	+10	30.7
			12	22	32.8	+10	30.4
			12	22	33	+10	30.8

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1927phae.proj.2311A

90	1.2	−18.1		12	22	0f.4	+
	−9.8	22.6		12	22	53.5	+
	4.9						
	−40.2						
86	21.0	32.5	102427	12	22	53.3	+
	−11.7	−13.0	102430	12	25	07.0	+
	46.1		12 20 36.0 +10 9.6				
	−44.8		12 22 49.7 +10 55.0				
			2 17.3 −15.0				
84	27.4	40.5					
	−5.2	−5.0					
	112.3						
	−21.3						
83	4.0	−1.6	102430	12	25	07.0	+
	−33.0	25.5	102437	12	27	38.8	+
	16.4		12 22 49.7 +10 55.0				
	−135.3		12 25 21.5 +10 27.9				
			2 17.3 −15.0				
82	8.9	−2.7					
	−28.2	24.5					
	36.5						
	−115.6						
87	7.5	−14.8					
	−29.5	12.3					
	30.8						
	−121.6						

Continued in Book 4. pg. 180.

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1927phae.proj.231A

4	+10	35.2	12	22	13.3	+10	17.1
3	+9	54.6	12	22	13.1	+10	17.2
			12	22	13	+10	17.2
.3	+9	54.6	12	24	19.4	+10	27.1
.0	+10	40.0	12	24	19.0	+10	27.0
			12	24	19	+10	27.0
			12	24	45.6	+10	35.1
			12	24	45.7	+10	35.0
			12	24	45.6	+10	35.0
.0	+10	40.0	12	25	23.4	+10	34.4
.8	+10	12.9	12	25	23.5	+10	34.4
			12	25	23	+10	34.4
			12	25	43.5	+10	37.3
			12	25	43.2	+10	37.4
			12	25	43	+10	37.4
			12	25	37.4	+10	25.2
			12	25	37.4	+10	25.2
			12	25	38	+10	25.2

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1927phae.proj.2317A

A 6720 Section B.

June 12	1	11.2	-5.0	152479	12	29	53.5
(Wrong multiplication		-0.8	16.5	142518	12	30	42.5
table used throughout.)		45.9		12 27 37.5 +15 17.6			
		~~3.1~~ -3.3		12 28 26.5 +14 55.9			
				2 16.0 -15			
	2	46.7	19.6	142516	12	29	39.6
		-18.7	-2.9	152491	12	34	02.2
		~~196.7~~ 191.5		12 27 23.6 +14 46.1			
		- ~~72.5~~ -76.7		12 31 52.2 +15 8.6			
				2 16.0 -15			
	4	54.5	7.5				
		-11.0	-15.1				
		~~227.7~~ 223.4					
		- ~~46.2~~ -45.1					
	5	22.2	3.5				
		-43.2	-18.9				
		~~93.2~~ 91.0					
		~~179.4~~ -177.1					
	3	10.0	16.8	142523	12	33	33.8
		-40.5	-3.8	142533	12	37	00.9
		~~42.0~~ 41.0		12 31 17.8 +14 36.4			
		~~170.1~~ -166.0		12 34 44.9 +14 57.0			
				2 16.0 -15			
	6	9.8	6.0				
		-40.6	-14.6				
		~~41.2~~ 40.2					
		~~170.5~~ -166.5					

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1927phae.proj.2317A

+15	2.6	12	30	39.4	+14	57.6
+14	40.9	12	30	39.2	+14	57.4
		12	30	39	+14	57.5
+14	31.1	12	32	~~55.7~~ 51.1	+14	50.7
+14	53.6	12	32	~~49.7~~ 51.5	+14	50.7
		12	32	51	+14	50.7
		12	33	~~25~~ 23.0	+14	34.6
		12	33	~~22.0~~ 23.1	+14	34.5
		12	33	23	+14	34.6
		12	31	~~12.0~~ 10.6	+14	34.6
		12	31	~~06.0~~ 11.1	+14	34.7
		12	31	11	+14	34.6
+14	21.4	12	34	~~55.0~~ 14.0	+14	34.2
+14	42.0	12	34	~~10.0~~ 14.9	+14	34.2
		12	34	~~24.0~~ 15	+14	34.2
		12	34	~~15.0~~ 14.0	+14	27.4
		12	34	~~10.0~~ 14.4	+14	27.4
		12	34	14	+14	27.4

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1927phae.proj.2317A

19	4.1	−14.8	142523	12	33	33.8
	−27.4	14.1	142531	12	35	42.8
	~~17.2~~ 16.4		12 31 17.8 +14 36.4			
	~~−143.1~~ −112.3		12 33 26.8 +14 7.5			
			2 16.0 −15			
18	8.6	−20.2				
	−23.8	8.7				
	~~36.1~~ 35.3					
	~~−100.2~~ −91.6					
17	12.2	−25.0				
	−19.3	3.8				
	~~51.2~~ 50.0					
	~~−41.1~~ −79.1					
16	16.7	−20.0				
	−14.8	8.8				
	~~70.7~~ 68.5					
	~~−66.4~~ −64.8					
8	16.5	+12.3				
	−15.0	16.6				
	~~69.3~~ 67.6					
	~~−63.0~~ −61.5					
10	18.1	−15.8				
	−13.4	13.1				
	~~76.0~~ 74.2					
	~~−56.3~~ −54.9					

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P	+14	21.4	12	33	50.2 ~~51.3~~	+14	06.6
	+13	52.5	12	33	50.5 ~~49~~	+14	06.6
			12	33	50	+14	06.6
			12	34	09.1	+14	01.2
			12	34	09.3 ? 08.2	+14	01.2
			12	34	9	+14	01.2
			12	34	23.8	+13	56.4
			12	34	23.7	+13	56.3
			12	34	24	+13	56.4
			12	34	42.3	+14	01.4
			12	34	42 1 ~~38.8~~ 42.1	+14	01.3
			12	34	42	+14	01.4
			12	34	41.4	+14	09.1
			12	34	41.3	+14	09.1
			12	34	41	+14	09.1
			12	34	48.0	+14	05.6
			12	34	47.9	+14	05.6
			12	34	48	+14	05.6

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1927phae.proj.2317A

9	26.0	−12.6		12	33	33.f +1
	−5.6	16.3		12	35	42.f +1
	~~109.2~~ 106.6					
	~~−23.3~~ −23.0					
12	23.5	−20.3				
	−8.1	~~1~~8.5				
	~~90.7~~ 96.4					
	~~−34.0~~ −33.2					
13	23.5	−20.6				
	−8.1	8.2				
	~~20.7~~ 96.4					
	~~−34.0~~ −33.2					
14	26.4	−25.5				
	−5.1	3.5				
	~~40.9~~ 15.2					
	~~−21.4~~ −20.9					
15	24.3	−26.7				
	−7.3	2.2				
	~~102.7~~ 99.6					
	~~−30.7~~ 29.9					
11	1.9	8.5	142531	12	35	42.f +1
	−53.1	−32.0	142535	12	39	2f.3 +1
	~~6.0~~ 7.8		12 33 26.8 +14 7.5			
	~~−225.0~~ 217.9		12 37 12.3 +14 47.8			
			2 16.0 −10			

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1927phae.proj.2313A

	+14	21.4	12	35	20.4	+14	0F.F
	+13	52.4	12	35	19.F	+14	0F.7
			12	35	20	+14	0F.F
			12	35	10.2	+14	01.1
			12	35	09.6	+14	00 18.9
			12	35	10	+14	01.0
			12	35	10.2	+14	00.F
			12	35	09.6	+14	00.6
			12	35	10	+14	00.7
			12	35	22.0	+13	55.9
			12	35	21.9	+13	55.9
			12	35	22	+13	55.9
			12	35	13.4	+13	54.7
			12	35	12.9	+13	54.6
			12	35	13	+13	54.6
F	+13	52.5	12	35	50.6	+14	01.0
3	+14	32.F	12	35	50.6	+14	00.F
			12	35	51	+14	00.9

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1927phae.proj.23174A

23	0.0	−17.0	142516	12	24	39.6	+1
	−54.0	21.3	142522	12	33	20.8	+1
	0.0		12 27 23.6 +14 46.1				
	~~−226.8~~ −221.4		12 31 4.8 +14 7.9				
			2 16.0 −15				
7	24.0	−8.5					
	−29.9	29.7					
	~~+203.8~~ 9A.4						
	~~−125.6~~ −122.6						
22	26.4	−19.3					
	−27.5	19.0					
	~~46.9~~ 10A.2						
	~~−143.5~~ −112.8						
21	40.2	−21.5					
	−13.8	16.7					
	~~168.8~~ 164.8						
	~~−58.0~~ −56.6						
20	50.5	−25.4					
	−3.5	12.9					
	~~212.1~~ 207.0						
	~~−14.7~~ −14.4						
35	9.8	6.0	132549	12	29	04.4	+1
	−16.7	−14.5	142519	12	30	52.9	+1
	~~41.2~~ 40.2		12 26 48.3 +13 57.1				
	~~−72.1~~ −6A.5		12 28 36.8 +14 17.6				
			2 16.1 −15				

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1927phae.proj.2314A

6	+14	31.1	12	29	39.6	+14	14.1
0	+13	52.9	12	29	39.4	+14	14.2
			12	29	40	+14	14.2
			12	31	18.0	+14	22.6
			12	31	18.2	+14	22.6
			12	31	18.	+14	22.6
			12	31	27.8	+14	11.8
			12	31	28.0	+14	11.9
			12	31	28	+14	11.8
			12	32	24.4	+14	09.6
			12	32	24.2	+14	09.6
			12	32	24	+14	09.6
			12	33	06.6	+14	05.7
			12	33	06.4	+14	05.8
			12	33	06	+14	05.8
.4	+13	42.1	12	29	44.6	+13	48.1
.9	+14	2.6	12	29	44.4	+13	48.1
			12	29	44	+13	48.1

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1927phae.proj.2317A

84 ?

25	12.9	~~5.3~~	142512	12	27	14.9	+1
Dec 14 2512 corrected	−13.8	~~23.2~~	132549	12	29	04.4	+
from 4 B.D. stars.	~~54.2~~ 52.9	−6.4	12 24 58.6 +14 ~~28.4~~ 27.5				
	− ~~56.8~~ −56.6	24.0	12 26 48.3 +13 57.1				
		30.4	2 16.1 −10				
26	12.0	~~6.6~~					
	−14.8	~~22.0~~					
	~~54.4~~ 49.2	−7.5					
	− ~~62.2~~ 60.8	23.0					
27	20.4	~~14.5~~					
	− 6.4	~~14.2~~					
	~~50.7~~ 43.6	−16.0					
	− ~~26.9~~ −26.2	14.6					
28	17.5	~~16.4~~					
	−9.3	~~12.3~~					
	~~23.5~~ 71.8	−17.5					
	− ~~39.1~~ −38.1	12.8					
32	16.2	~~24.6~~					
	−10.6	~~4.1~~					
	~~68.8~~ 66.4	−25.8					
	− ~~44.5~~ −43.5	4.7					
33	15.1	~~25.1~~					
	−11.7	~~3.6~~					
	~~63.4~~ 61.9	−26.2					
	− ~~49.1~~ −48.0	4.3					

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			12.5					
7	+14		~~X.X~~	12	2A	07.6	+14	06.1
4	+13		42.1	12	2A	07.8	+14	06.3
				12	2A	08	+14	06.1
				12	2A	03.9	+14	05.0
				12	2A	03.7	+14	05.1
				12	2A	04	+14	5.0
				12	2A	3A.3	+13	56.5
				12	2A	3A.2	+13	56.7
				12	2A	3A	+13	56.6
				12	2A	26.5	+13	55.0
				12	2A	26.3	+13	54.9
				12	2A	26	+13	55.0
				12	2A	21.1	+13	46.7
				12	2A	20.9	+13	46.8
				12	2A	21	+13	46.8
				12	2A	16.6	+13	46.3
				12	2A	16.4	+13	46.4
				12	2A	16	+13	46.4

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34	26.5	~~-20.3~~		12	27	14.7 +1
	-0.2	~~8.5~~		12	29	04.4 +1
	~~44.3~~ 10.6	-22.0				
	~~- 0.8~~	8.5				
29	20.7	-11.8	142509	12	25	24.4 +1
	-32.1	40.9	132548	12	29	01.1 +1
	~~86.9~~ 44.9		12 23 8.3 +14 15.9			
	~~- 134.8~~ -131.6		12 26 45.0 +13 23.1			
			2 16.1 -15			
30	13.3	-17.8				
	-39.5	35.0				
	~~52.9~~ 54.5					
	~~- 165.9~~ -161.0					
31	22.5	-17.4				
	-30.2	35.4				
	~~94.5~~ 92.2					
	~~- 126.8~~ -123.8					
36	24.2	-37.6				
	-28.8	15.2				
	~~101.6~~ 99.2					
	~~- 121.0~~ -118.1					
37	51.9	-27.4				
	-0.9	25.5				
	~~217.0~~ 212.7					
	~~- 3.8~~ -3.7					

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1927phae.proj.2312A

		2.5					0.5
7	+14	1~~8~~.4	12	29	03.3	+13	5~~8~~.~~4~~
4	+13	42.1	12	29	03.6	+13	50.6
			12	29	03	+13	50.6
4	+14	00.9	12	26	49.3	+13	49.1
1	+13	0~~8~~.1	12	26	49.5	+13	49.0
			12	26	49	+13	49.0
			12	26	1~~8~~.9	+13	43.1
			12	26	20.1	+13	43.1
			12	26	19	+13	43.1
			12	26	56.6	+13	43.5
			12	26	57.3	+13	43.5
			12	26	57	+13	43.5
			12	27	03.6	+13	23.3
			12	27	03.0	+13	23.3
			12	27	03	+13	23.3
			12	2~~8~~	57.1	+13	33.5
			12	2~~8~~	57.4	+13	33.6
			12	2~~8~~	57	+13	33.6

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1927phae.proj.23.17A

38	41.8	−44.0		12	25	24.4
	−11.1	8.7		12	29	01.1
	~~175.6~~ 171.4					
	~~−46.6~~ −45.5					
39	48.6	−50.5				
	−4.3	2.3				
	~~204.1~~ 199.2					
	~~−18.1~~ −17.6					
40	49.0	−50.8				
	−3.8	1.9				
	~~205.8~~ 200.9					
	~~−16.0~~ −15.6					
87	25.2	−51.0				
	−27.7	1.9				
	~~105.8~~ 103.3					
	~~−114.3~~ −113.6					
24	31.0	−3.8	142512	12	29	14.6
	−22.1	7.1	142519	12	30	52.8
	~~130.2~~ 127.1		12 24 58.6 +14 28.4			
	~~−92.8~~ −91.6		12 28 36.8 +14 17.6			
			2 16.0 −15			
June 13 43	15.8	−18.8	132549	12	29	04.5
	−35.0	10.2	132562	12	32	33.2
	~~66.4~~ 64.8		12 26 48.3 +13 57.1			
	~~−149.8~~ −143.5		12 30 17.0 +13 28.0			
			2 16.2 −15			

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	+14	00.9	12	2P	15.F	+13	16.9
	+13	0F.1	12	2P	15.6	+13	16.F
			12	2P	16	+13	16.8
			12	2P	43.6	+13	10.4
			12	2P	43.5	+13	10.4
			12	2P	44	+13	10.4
			12	2P	45.3	+13	10.1
			12	2P	45.5	+13	10.0
			12	2P	45	+13	10
			12	27	07.7	+13	09.9
			12	27	07.6	+13	10.0
			12	27	08	+13	10.0
.6	+14	13.4	12	29	21.7	+14	09.6
P	+14	02.6	12	29	22.2	+14	09.7
			12	29	22	+14	09.6
5	+13	42.1	12	30	09.3	+13	23.3
2	+13	13.0	12	30	09.7	+13	23.2
			12	30	10	+13	23.2

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45	27.2	-13.2	12 29 04.5 +
	-23.7	15.8	12 32 33.2 +
	~~114.2~~ 111.5		
	- ~~99.5~~ -97.2		
44	26.9	-17.5	
	-23.9	11.5	
	~~115.0~~ 110.3		
	- ~~100.4~~ -98.0		
47	34.5	- 9.7	
	-16.3	19.4	
	~~145.9~~ 141.4		
	- ~~67.5~~ -66.4		
46	32.8	-13.8	
	-18.1	15.2	
	~~137.0~~ 134.5		
	~~76.0~~ -74.2		
48	38.8	-14.2	
	-12.0	15.0	
	~~163.0~~ 159.1		
	- ~~50.4~~ -49.2		
49	42.7	-13.0	
	- 8.1	16.1	
	~~179.3~~ 175.1		
	- ~~34.0~~ -33.2		

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	+13	42.1	12	30	56.0	+13	28.9
2	+13	13.0	12	30	56.0	+13	28.8
			12	30	56	+13	28.8
			12	30	54.8	+13	24.6
			12	30	55.2	+13	24.5
			12	30	55	+13	24.6
			12	31	25.9	+13	32.4
			12	31	26.4	+13	32.4
			12	31	26	+13	32.4
			12	31	19.0	+13	28.3
			12	31	19.0	+13	28.2
			12	31	19.0	+13	28.2
			12	31	43.6	+13	27.9
			12	31	44.0	+13	28.0
			12	31	44	+13	28.0
			12	31	59.6	+13	29.1
			12	32	00.0	+13	29.1
			12	32	00	+13	29.1

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88	2.6	21.2	122484	12 26	35.9	+1
	-32.8	-5.8	132548	12 29	01.3	+
	~~10.9~~ 10.7		12 24 19.4 +12 56.1			
	~~-139.8~~ -134.5		12 26 45.0 +13 23.1			
			2 16.3 -15'			
89	12.0	20.9				
	-23.4	-6.1				
	~~52.4~~ 49.2					
	~~-98.3~~ -95.9					
90	19.0	19.6				
	-16.5	-7.4				
	~~79.8~~ 77.9					
	~~-69.3~~ -67.6					
91	24.3	14.7				
	-11.1	-12.2				
	~~102.1~~ 99.6					
	~~-46.6~~ -45.5'					
92	9.3	12.0				
	-26.2	-14.9				
	~~39.1~~ 38.1					
	~~-109.3~~ -107.4					
93	9.4	6.4				
	-26.0	-20.6				
	~~39.5~~ 38.5					
	~~-109.2~~ -106.6					

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.7	+12	41.1	12	26	46.4	+13	02.3
3	+13	04.1	12	26	46.8	+13	02.3
			12	26	47	+13	02.3
			12	27	24.9	+13	02.0
			12	27	25.4	+13	02.0
			12	27	25	+13	02.0
			12	27	53.6	+13	00.7
			12	27	53.7	+13	00.7
			12	27	54	+13	00.7
			12	24	15.3	+12	55.4
			12	24	15.8	+12	55.9
			12	24	16	+12	55.4
			12	27	13.4	+12	53.1
			12	27	13.9	+12	53.2
			12	27	14	+12	53.2
			12	27	14.2	+12	47.3
			12	27	14.7	+12	47.5
			12	27	14	+12	47.5

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94	21.7	3.5		12	26	35.7 +1
	13.7	-23.5		12	29	01.3 +1
	~~71~~ 59.0					
	~~575~~ 56.2					
41	8.2	-2.5	132548	12	29	01.3 +
	-36.9	21.8	122494	12	32	06.0 +
	~~34~~ 33.6		12 26 45.0 +13 23.1			
	~~-10~~ 5.0 -15.3		12 29 49.7 +12 58.8			
			2 16.3 -15			
84	22.5	-6.3				
	-22.6	18.0				
	~~94.5~~ 92.2					
	- ~~94~~ 9 92.9					
85	22.4	-12.4				
	-22.6	12.0				
	~~94~~ 91.8					
	- ~~94~~ 9 -92.9					
82	28.4	-2.0				
	-16.7	22.4				
	~~44.5~~ 116.4					
	- ~~70~~ -64.5					
83	31.2	-9.0				
	-14.0	15.5				
	~~131.0~~ 129.9					
	- ~~54~~ -57.4					

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1927phae.proj.231:A

7	+12	41.1	12	2A	04.7	+12	44.6	
3	+13	0A.1	12	2A	05.1	+12	44.6	
			12	2A	05	+12	44.6	
.3	+13	0A.1	12	29	34.9	+13	05.6	
.0	+12	43.A	12	29	34.7	+13	05.6	
			12	29	35	+13	05.6	
			12	30	33.5	+13	01.8	
			12	30	33.3	+13	01.A	
			12	30	33	+13	01.8	
			12	33	33.1	+12	55.7	
			12	30	33.3	+12	55.A	
			12	30	33	+12	55.A	
			12	30	57.7	+13	06.1	
			12	30	57.5	+13	06.2	
			12	30	58	+13	06.2	
			12	31	09.2	+12	59.1	
			12	31	08.6	+12	59.3	
			12	31	09	+12	59.2	

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81	33.2	-8.0		12	29	01.3 +
	11.8	16.4		12	32	06.0 +
	~~139.4~~ 136.1					
	~~49.6~~ 48.4					
80	40.8	-9.9				
	4.3	14.5				
	~~174~~ 167.3					
	~~18.1~~ 17.6					
51	9.5	-16.7	142522	12	33	20.9 +
	-25.0	20.9	132569	12	35	42.5 +
	~~39.9~~ 39.5		12 31 4.8 +14 7.9			
	- ~~106.0~~ -102.5		12 33 26.4 +13 30.4			
			2 16.1 -10			
52	9.0	-21.2				
	-25.5	16.3				
	~~39.8~~ 36.9					
	- ~~109.1~~ -104.6					
53	20.2	-17.6				
	-14.3	20.0				
	~~54.4~~ 52.2					
	- ~~62.1~~ -58.6					
54	21.5	-25.1				
	-12.9	12.4				
	~~90.3~~ 88.2					
	- ~~54.2~~ -52.9					

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.3	+13	08.1	12	31	17.4	+13	00.1
6.0	+12	43.8	12	31	17.6	+13	00.2
			12	31	18	+13	00.2
			12	31	48.6	+12	58.2
			12	31	48.4	+12	58.3
			12	31	48	+12	58.2
.9	+13	52.9	12	33	59.9	+13	36.2
5	+13	15.4	12	{34 / 33}	00.0 / 60.0	+13	36.3
			12	34	00	+13	36.2
			12	33	57.8	+13	31.7
			12	33	57.9	+13	31.7
			12	33	58	+13	31.7
			12	34	43.7	+13	35.3
			12	34	43.9	+13	35.4
			12	34	44	+13	35.4
			12	34	49.1	+13	27.8
			12	34	49.6	+13	27.8
			12	34	49	+13	27.8

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55	33.3	−15.7		12	33	20.9 +13
	−1.2	21.8		12	35	42.5 +1
	~~139.9~~ 136.5					
	~~−5.0~~ −4.9					
57	31.3	−33.3				
	−3.1	4.2				
	~~131.5~~ 128.3					
	~~−13.0~~ −12.7					
42	12.1	3.2	132548	12	29	01.2 +1
	−39.5	−1.7	132562	12	32	33.2 +1
	~~51.6~~ 49.6		12 26 45.0 +13 23.1			
	~~−165.9~~ −161.0		12 30 17.0 +13 28.0			
			2 16.2 −15 ✓			
50	8.0	20.7	132562	12	32	33.1 +
	−3.5	−19.3	142522	12	33	20.9 +
	~~33.6~~ 32.8		12 30 17.0 +13 28.0			
	~~−14.7~~ −14.4		12 31 4.8 +14 7.9			
			2 16.1 −15 ✓			
56	7.1	−20.7	142531	12	35	42.9 +13
	−48.3	7.7	132574	12	39	31.1 +1
	~~29.8~~ 29.1		12 33 26.8 +14 7.5			
	~~−212.9~~ −194.3		12 37 15.0 +13 39.1			
			2 16.1 −15 ✓			
58	27.5	0.3	132562	12	32	33.2 +1
Stars off in R.A.	−18.3	−2.0	132569	12	36	42.6 +
	~~145.5~~ 112.8		12 30 17.0 +13 28.0			
	~~−76.9~~ −75.3		12 33 26.4 +13 30.4			
			2 16.2 −16 ✓			

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9	+13	52.9	12	35	37.4	+13	37.2
5	+13	15.4	12	35	37.6	+13	37.2
			12	35	38	+13	37.2
			12	35	29.2	+13	19.6
			12	35	29.8	+13	19.6
			12	35	30	+13	19.6
.2	+13	08.1	12	29	50.8	+13	11.3
.2	+13	13.0	12	29	52.2	+13	11.3
			12	29	52	+13	11.3
.1	+13	13.0	12	33	05.9	+13	33.7
9	+13	52.9	12	33	06.5	+13	33.6
			12	33	06	+13	33.6
.9	+13	52.5	12	36	12.0	+13	31.8
.1	+13	24.1	12	36	18.1	+13	31.8
			12	36	13	+13	31.8
3.2	+13	13.3	12	34	26.0	+13	13.3
.6	+13	15.4	12	34	29.6	+13	13.4
			12	34	27	+13	13.4

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72	5.5	−13.0	132562	12 32	33.2 +
Scale wrongly oriented in declination:	−40.1	~~6.5~~ 5.4	132568	12 35	39.0 +
	~~23.1~~ 22.6		12 30 17.0 +13 28.0		
	~~−168.4~~ −164.4		12 33 23.3 +13 9.5		
		18.5	2 16.2 −15		
59	17.6	−4.~~7~~ 3			
	−28.0	~~5.1~~			
	~~73.9~~ 72.2	14.4			
	~~−117.6~~ −114.4				
62	28.7	−13.~~8~~ 2			
	−17.0	~~5.8~~			
	~~20.6~~ 11.7	5.3			
	~~−71.9~~ 69.7				
61	32.3	−1~~3.3~~ 2.7			
	−13.3	~~6.2~~			
	~~25.9~~ 132.4	5.9			
	~~−55.9~~ −54.5				
60	40.2	−~~9.5~~ 8.6			
	−5.5	~~10.0~~			
	~~46.0~~ 164.8	9.9			
	~~−23.1~~ −22.6				
June 14 74	6.4	7.8	122500	12 34	15.4 +
	−49.2	−25.9	132571	12 38	03.7 +
	~~26.8~~ 26.2		12 31 59.1 +12 41.6		
	~~−206.6~~ −201.7		12 35 47.4 +13 15.3		
			2 16.3 −15		

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					13	00.0	
2	+13	13.3	12	32	55.A	+~~12~~	~~59.9~~
					12	59.9	
5	+12	54.5	12	32	55.1	+~~13~~	~~01.0~~
			12	32	55	+13	00.0
						8	
			12	33	45.4	+13	A.~~5~~
						8.9	
			12	33	44.7	+13	~~9.6~~
			12	33	45	+13	8.8
			12	34	30.9	+12	59.8
			12	34	30.A	+12	59.8
			12	34	31	+12	59.8
			12	34	45.6	+13	00.3
			12	34	45.0	+13	00.4
			12	34	45	+13	00.4
			12	35	1A.0	+13	4.4
			12	35	16.9	+13	4.4
			12	35	17	+13	04.4
4	+12	26.6	12	34	41.6	+12	34.4
.7	+13	00.3	12	34	42.0	+12	34.4
			12	34	42	+12	34.4

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73	14.3	5.7	12 34 15.4 +
	−41.3	−28.0	12 3A 03.8 +
	~~60.1~~ 55.6		
	~~−173.5~~ −164.3		
68	12.8	14.6	
	−43.0	−19.2	
	~~58.A~~ 52.5		
	~~−180.6~~ −176.3		
69	9.5	18.6	
	−46.1	−15.0	
	~~55.6~~ 39.0		
	~~−195.6~~ −189.0		
67	22.3	15.3	
	−33.4	−18.4	
	~~23.9~~ 91.4		
	~~−140.3~~ −136.9		
65	27.0	21.3	
	−28.5	−12.3	
	~~113.9~~ 110.7		
	~~−119.9~~ −116.A		
64	30.3	24.1	
	−25.3	−9.5	
	~~122.3~~ 124.2		
	~~−106.3~~ −103.7		

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	+12	26.6	12	3.5	14.0	+12 32.3
	+13	00.3	12	35	14.4	+12 32.3
			12	35	14	+12 32.3
			12	35	07.9	+12 41.2
			12	35	07.4	+12 41.1
			12	35	08	+12 41.2
			12	34	54.4	+12 45.2
			12	34	54.7	+12 45.3
			12	34	55	+12 45.2
			12	35	46.8	+12 41.9
			12	35	46.8	+12 41.9
			12	35	47	+12 41.9
			12	36	06.1	+12 47.9
			12	36	06.9	+12 42.6
			12	36	06	+12 48.0
			12	36	19.6	+12 50.7
			12	36	20.6	+12 50.8
			12	36	20	+12 50.8

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63	32.0	28.2		12	34	15.4
	−23.6	−5.5		12	34	03.7
	~~134.4~~ 131.2					
	− ~~99.1~~ −96.4					
66	31.0	16.1				
	−24.6	−17.5				
	~~130.2~~ 127.1					
	− ~~103.3~~ −100.9					
77	24.8	6.5	122495	12	32	09.2
	−26.6	−26.1	132568	12	35	39.6
	~~104.2~~ 101.7		12 29 52.9 +12 36.9			
	− ~~111.7~~ −109.1		12 33 23.3 +13 9.5			
			2 16.3 − 10			
70	19.7	22.8				
	−31.7	−9.8				
	~~42.7~~ 40.4					
	− ~~133.1~~ −130.0					
71	17.9	24.0				
	−33.8	−8.5				
	~~75.2~~ 73.4					
	− ~~142.0~~ −138.6					
98	41.4	−15.9	122477	12	23	29.0
	−0.2	5.0	122483	12	26	19.4
	~~173.1~~ 169.7		12 21 12.6 +12 55.4			
	− 0.8		12 24 3.5 +12 34.4			
			2 16.4 − 10			

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4	+12	26.6	12	36	26.6	+12	54.8
.7	+13	00.3	12	36	26.9	+12	54.8
			12	36	27	+12	54.8
			12	36	22.5	+12	42.7
			12	36	22.8	+12	42.8
			12	36	23	+12	42.8
2	+12	21.9	12	33	50.9	+12	28.4
6	+12	54.5	12	33	50.5	+12	28.4
			12	33	51	+12	28.4
			12	33	30.0	+12	44.7
			12	33	29.6	+12	44.7
			12	33	30	+12	44.7
			12	33	22.6	+12	45.9
			12	33	21.0	+12	46.0
			12	33	22	+12	46.0
.0	+12	40.4	12	26	18.9	+12	24.5
.4	+12	19.4	12	26	19.1	+12	24.4
			12	26	19	+12	24.4

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97	40.9	-15.0		12	23	29.0
	-0.7	5.9		12	26	19.9
	~~17.8~~ 16.9					
	- 2.9					
96	37.5	-8.2				
	-4.1	12.8				
	~~15.5~~ 15.4					
	~~-17.2~~ -16.8					
95	6.3	-11.0	122484	12	26	35.8
	-45.3	24.6	122489	12	30	07.8
	~~26.5~~ 25.8		12 24 19.4 +12 56.1			
	~~-14.3~~ -15.7		12 27 51.4 +12 20.4			
			2 16.4 -15			
99	12.7	~~-26.8~~ 7.4				
	-38.9	8.2				
Identification.	~~53.5~~ 52.1					
	~~-163.4~~ -159.5					
100	10.5	-32.6				
	-41.1	3.0				
	~~44.1~~ 43.0					
	~~-172.6~~ -164.5					
101	7.3	-34.6				
	-44.3	1.0				
	~~30.7~~ 29.9					
	~~-146.1~~ -141.6					

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1927phae.proj.2311A

	+12	40.4	12	26	16.9	+12	25.4
	+12	19.4	12	26	17.0	+12	25.3
			12	26	17.0	+12	25.4
			12	26	02.8	+12	32.2
			12	26	03.1	+12	32.2
			12	26	03	+12	32.2
	+12	41.1	12	27	01.6	+12	30.1
	+12	05.4	12	27	02.1	+12	30.0
			12	27	02	+12	30.0
			12	27	27.9	+12	14.4 (3.7)
			12	27	28.3	+12	13.6
			12	27	28	+12	13.76
			12	27	19.8	+12	08.5
			12	27	19.3	+12	08.4
			12	27	19	+12	08.4
			12	27	05.7	+12	06.5
			12	27	06.2	+12	06.4
			12	27	06	+12	06.4

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1927phae.proj.23.17A

179	29.0	-6.2		12	26	35.p +1
	-22.7	29.4		12	30	07.p +1
	~~141.8~~ 114.9					
	~~-95.3~~ -93.1					
178	40.0	-4.5				
	-11.8	31.1				
	~~168.0~~ 164.0					
	~~-49.6~~ -48.4					
177	50.1	-11.5				
	-1.6	24.2				
	~~210.4~~ 205.4					
	~~-6.7~~ -6.6					
114	28.5	-33.0				
	-23.1	2.6				
	~~119.7~~ 116.8					
	~~-97.0~~ -94.7					
120	50.3	-31.3				
	-1.3	4.5				
	~~211.3~~ 206.2					
	~~-5.5~~ -5.3					
159	17.5	3.8	112468	12	25	27.1 +1
	-57.0	-46.3	122489	12	30	07.9 +1
	~~73.5~~ 71.8		12 23 10.6 +11 30.2			
	~~-214.2~~ -209.1		12 27 51.4 +12 20.4			
			2 16.5 -10			

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		+12	41.1	12	28	34.7	+12	34.9
		+12	05.4	12	28	34.7	+12	34.8
				12	28	35	+12	34.8
				12	29	19.8	+12	36.6
				12	29	19.4	+12	36.5
				12	29	20	+12	36.6
				12	30	01.2	+12	29.6
				12	30	01.2	+12	29.6
				12	30	01	+12	29.6
				12	28	32.6	+12	08.1
				12	28	33.1	+12	08.0
				12	28	33	+12	08.0
				12	30	02.0	+12	09.8
				12	30	02.5	+12	09.9
				12	30	02	+12	09.8
	.1	+11	15.2	12	26	38.9	+11	19.0
	.9	+12	05.4	12	26	38.8	+11	19.1
				12	26	39	+11	19.8

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1927phae.proj.23...A

158	18.2	2.2	12 25 27.1 +1
	-50.4	-47.8	12 30 07.4 +1
	~~76.4~~ 74.6		
	~~-211.7~~ -206.6		
157	23,0	3,9	
	-45.5	-46.2	
	~~96.6~~ 94.3		
	~~-191.1~~ -186.5		
156	37.2	-1,0	
	-31.3	-51,0	
	~~56.2~~ 102.5		
	~~-131.5~~ -128.3		
104	15,0	31,5	
	-53.4	-18.5	
	~~63.0~~ 61.5		
	~~-224.3~~ -214.9		
103	20.3	40,2	
	-48.2	-19,8	
	~~68.5~~ 103.2		
	~~-202.4~~ 197.6		
102	28.8	45.7	
	-39.7	- 4.3	
	~~121.0~~ 118.1		
	~~-166.7~~ -162.8		

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1927phae.proj.231:A

+11	15.2	12	26	41.7	+11	17.4
+12	05.4	12	26	41.3	+11	17.6
		12	26	42	+11	17.5
		12	27	01.4	+11	19.1
		12	27	01.4	+11	19.2
		12	27	01	+11	19.2
		12	27	59.6	+11	14.2
		12	27	59.6	+11	14.4
		12	27	60	+11	14.3
		12	26	28.6	+11	46.7
		12	26	29.0	+11	46.9
		12	26	29	+11	46.8
		12	26	50.3	+11	55.4
		12	26	50.3	+11	55.6
		12	26	50	+11	55.5
		12	27	25.2	+12	00.9
		12	27	25.1	+12	01.1
		12	27	25	+12	01.0

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1927phae.proj.23.2A

105	29.0	39.9	12 25 27.1	+
star?	-39.5	10;2	12 30 07.9	+
	~~121.0~~ 118.9			
	~~-165.9~~ -161.8			
106	34.0	39.2		
	-34.5	-10.9		
	~~143.0~~ 139.4			
	~~-145.9~~ -141.4			
107	36.5	26.7		
	-32.0	-23.3		
	~~153.3~~ 149.6			
	~~-134.4~~ -131.2			
108	34.4	18.8		
	-34.1	-31.2		
	~~145.5~~ 141.0			
	~~-144.2~~ -139.8			
109	44.0	24.0		
	-24.6	-26.0		
	~~124.8~~ 120.4			
	~~-104.5~~ -100.9			
110	44.8	33.2		
	-23.7	-16.8		
	~~148.2~~ 143.7			
	~~-99.5~~ -97.2			

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1927phae.proj.2312A

+11	15.2	12	27	26.6	+11	55.1
+12	05.4	12	27	26.9	+11	55.2
		12	27	26	+11	55.2
		12	27	46.5	+11	54.4
		12	27	46.5	+11	54.5
		12	27	46	+11	54.4
		12	27	56.7	+11	41.9
		12	27	56.7	+11	42.1
		12	27	57	+11	42.0
		12	28	28.1	+11	34.0
		12	28	28.1	+11	34.2
		12	28	28	+11	34.1
		12	28	27.5	+11	39.2
		12	28	27.0	+11	39.4
		12	28	27	+11	39.3
		12	28	30.8	+11	48.4
		12	28	30.7	+11	48.6
		12	28	31	+11	48.5

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1927phae.proj.23112A

June 15	111	45.8	24.9	12	20	27.1	+
		-22.7	-25.2	12	30	17.9	+
		~~42.4~~ 47.7					
		~~-20.3~~ -93.1					
	112	51.7	18.3				
		-16.8	-31.8				
		~~216~~ 211.9					
		~~-70.6~~ -68.9					
	113	56.7	20.5				
		-11.9	-29.7				
		~~238.1~~ 232.4					
		~~-95.0~~ -42.8					
	115	49.4	45.7				
		-19.1	- 4.4				
		~~217.5~~ 202.5					
		~~-60.2~~ -78.3					
	116	53.1	49.3				
		-15.5	- 0.8				
		~~223.0~~ 217.7					
		~~-65.1~~ -63.6					
	117	54.3	41.4				
		-14.3	-8.7				
		~~228.1~~ 222.6					
		~~-60.1~~ -52.6					

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1927phae.proj.231:A

1	+11	15.2	12	2f	34.f	+11	40.1
9	+12	05.4	12	2f	34.f	+11	40.2
			12	2f	35	+11	40.2
			12	2f	59.0	+11	33.5
			12	2f	59.0	+11	33.6
			12	2f	59	+11	33.6
			12	29	19.5	+11	35.7
			12	29	19.1	+11	35.9
			12	29	19	+11	35.7
			12	2f	49.6	+12	00.9
			12	2f	49.6	+12	01.0
			12	2f	50	+12	01.0
			12	29	04.f	+12	04.6
			12	29	04.3	+12	04.6
			12	29	05	+12	04.6
			12	29	09.7	+11	56.6
			12	29	09.3	+11	56.7
			12	29	10	+11	56.6

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1927phae.proj.2317A

118	60,5 − 8,0 2 52.0 − ~~33.5~~ 32.4	43,5 − 6.6		12 25 27.1 12 30 07.4	+1 +1
119	65.2 −3.3 261.3 − ~~13.9~~ −13.5	49.0 − 1.0			
160	9.6 −27.5 ~~40.3~~ 39.4 − ~~143.5~~ −112.4	−3.3 21.7	112468 112473 12 23 10.6 +11 30,2 12 25 43.2 +11 5,3 2 16.6 −15	12 25 27.2 12 27 59.4	+1 +
161	12.7 −24.5 ~~53.3~~ 52.1 − ~~127~~ −100.4	−3.5 21.4			
162	13.3 −23.8 ~~55.9~~ 54.5 − ~~101.3~~ −97.6	−6.9 18.1			
163	23.2 −14.0 ~~97.4~~ 95.1 − ~~59.8~~ −57.4	−15.5 19.3			

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1	+11	15.2	12	29	35.1	11	58.9
.4	+12	05.4	12	29	35.1	11	58.8
			12	29	35	+11	58.8
			12	29	54.4	12	04.2
			12	29	54.4	12	04.4
			12	29	54	+12	04.3
2	+11	15.2	12	26	06.6	+11	11.9
2	+10.	50.3	12	26	07.0	+11	12.0
			12	26	07	+11	12.0
			12	26	19.3	+11	11.7
			12	26	19.4	+11	11.7
			12	26	19	+11	11.7
			12	26	21.7	+11	08.3
			12	26	22.2	+11	18.4
			12	26	22	+11	08.4
			12	27	02.3	+10	59.7
			12	27	02.4	+10	59.6
			12	27	02	+10	59.6

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1927phae.proj.2317A

164	25.3	−21.1		12 25 27.2 +1
	−11.9	3.8		12 27 59.8 +1
	~~106.7~~ 103.7			
	~~−50.5~~ −46.8			
165	29.7	−23.0		
	−7.6	1.9		
	~~124.7~~ 121.8			
	~~−31.7~~ −31.2			
175	27.7	0.3	10243 2	12 25 29.9 +1
	−8.9	−33.0	11 2473	12 27 59.8 +1
	~~114.3~~ 113.6		12 23 13.3 +10 32.0	
	~~−37.4~~ −36.5		12 25 43.2 +11 5.3	
			2 16.6 −15	
174	30.0	9.2		
	−6.5	−24.2		
	~~126.1~~ 123.0			
	~~−27.3~~ −26.6			
173	34.0	14.7		
	−2.5	−18.7		
	~~143.8~~ 139.4			
	~~−10.5~~ −10.2			
167	30.6	21.4		
	−5.8	−12.0		
	~~126.5~~ 125.5			
	~~−24.4~~ −23.8			

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1927phae.proj.2317A

	+11	15.2	12	27	10.9	+10	54.1
	+10	50.3	12	27	11.0	+10	54.1
			12	27	11	+10	54.1
			12	27	29.0	+10	52.2
			12	27	28.6	+10	52.2
			12	27	29	+10	52.2
9	+10	17.0	12	27	23.3	+10	17.3
A	+10	50.3	12	27	23.3	+10	17.3
			12	27	23	+10	17.3
			12	27	32.9	+10	26.2
			12	27	33.2	+10	26.1
			12	27	33	+10	26.2
			12	27	49.3	+10	31.7
			12	27	49.6	+10	31.6
			12	27	49	+10	31.6
			12	27	35.4	+10	31.4
			12	27	36.0	+10	31.3
			12	27	36	+10	31.4

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1927phae.proj.23174A

166 26.3 23.4 12 25 29.9 +1
-10.3 -10.0 12 27 59.4 +1
~~110.5~~ 107.2
~~-43.3~~ -42.2

168 12.4 -11.7 112473 12 27 59.2 +
-14.3 10.8 102443 12 29 49.2 +
~~52.1~~ 50.8 12 25 43.2 +11 5,3
~~-60.1~~ -56.6 12 27 32.6 +10 43.0
2 16.6 -15

169 12.1 -13.0
-14.6 9.3
~~52.7~~ 49.6
~~-61.3~~ -59.9

170 12.7 -16.0
-14.0 6,5
~~53.3~~ 52.1
~~-57.8~~ -57.4

171 16.8 -13.7
-9.9 8.5
~~112.6~~ ~~109.2~~ 66.9
~~-41.6~~ -40.6

172 13.3 -10.8
-13.5 11.6
~~55.9~~ 54.5
~~-56.7~~ -55.4

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1927phae.proj.231A

+10	17.0	12	27	19.7	+10	40.4
+10	50.3	12	27	17.6	+10	40.3
		12	27	17	+10	40.4
+10	50.3	12	2F	50.6	+10	3F.6
+10	2F.0	12	2F	50.6	+10	3F.F
		12	2F	51	+10	3F.7
		12	2F	49.4	+10	37.3
		12	2F	49.3	+10	37.3
		12	2F	49	+10	37.3
		12	2F	51.9	+10	34.3
		12	2F	51.F	+10	34.5
		12	2F	52	+10	34.4
		12	29	08.7	+10	36.6
		12	29	08.6	+10	36.5
		12	29	9	+10	36.6
		12	2F	54.3	+10	39.5
		12	2F	53.F	+10	39.6
		12	2F	54	+10	39.6

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1927phae.proj.231A

155	22.0	15.7	112473	12	27	59.8	+10
	-4.9	-17.5	112475	12	29	49.7	+
	~~92.4~~ 90.2		12 25 43.2 +11 5.3				
	~~-20.6~~ -20.1		12 27 33.1 +11 38.3				
			2 16.6 -15'				
152	18.5	11.7	112475	12	29	49.6	+
	-26.6	-24.2	122498	12	32	54.5	+
	~~77.7~~ 76.8		12 27 33.1 +11 38.3				
	~~-111.7~~ -109.1		12 30 38.0 +12 14.2				
			2 16.5 -15'				
153	10.4	18.0					
	-34.7	-17.8					
	~~43.7~~ 42.6						
	~~-146.7~~ -142.3						
151	36.1	7.8					
	-9.0	-28.0					
	~~-10.6~~ 14.0						
	~~-37.4~~ -36.9						
124	15.3	28.8					
	-29.9	-7.0					
	~~64.3~~ 62.7						
	~~-125.6~~ -122.6						
125	29.1	33.7					
	-16.0	-2.2					
	~~122.2~~ 119.3						
	- ~~67.2~~ 65.6						

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1927phae.proj.231A

	+10	50.3	12	29	30.0	+11	06.0
	+11	23.3	12	29	29.6	+11	05.8
			12	29	30	+11	05.9
	+11	23.3	12	31	05.4	+11	35.0
	+11	69.2	12	31	05.4	+11	35.0
			12	31	05	+11	35.0
			12	30	32.2	+11	41.3
			12	30	32.2	+11	41.4
			12	30	32	+11	41.4
			12	32	17.6	+11	31.1
			12	32	17.6	+11	31.2
			12	32	18	+11	31.2
			12	30	52.3	+11	52.1
			12	30	51.9	+11	52.2
			12	30	52	+11	52.2
			12	31	48.9	+11	57.0
			12	31	48.9	+11	57.0
			12	31	49	+11	57.0

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1927phae.proj.231A

126	27.5	35.1		12	29	49.6	+11
	−17.7	−1.0		12	32	54.5	+11
	~~145.5~~ 12.8						
	~~−74.5~~ −72.6						
127	41.0	34.5					
	− 4.2	−1.5					
	~~72.2~~ 16.1						
	~~−17.6~~ −17.2						
123	13.1	11.8	122488	12	29	34.0	+1
	−24.9	−19.1	122495	12	32	09.3	+
	~~53.0~~ 53.7		12 27 17.6 +12 6.1				
	~~−104.6~~ −102.1		12 29 52.9 +12 36.9 ✓				
			2 16.4 −15				
122	19.7	16.6					
	−18.3	−14.3					
	~~37.7~~ 40.8						
	~~−76.7~~ −74.0						
121	17.0	22.3					
	−21.1	− 8.6					
	~~71.4~~ 69.7						
	~~−44.6~~ −46.5						
154	6.7	−8.5	112475	12	29	49.7	+11
	−33.6	6.6	112478	12	32	34.9	+11
	~~240~~ 279.5		12 27 33.1 +11 38.3				
	~~−141.1~~ −137.8		12 30 18.3 +11 23.1 ✓				
			2 16.6 −15				

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1927phae.proj.231A

	+11	23.3	12	31	42.4	+11	58.4
	+11	39.2	12	31	41.9	+11	58.2
			12	31	42	+11	58.3
			12	32	37.7	+11	57.8
			12	32	37.3	+11	57.7
			12	32	38	+11	57.8
	+11	51.1	12	30	27.7	+12	02.9
	+12	21.9	12	30	27.2	+12	02.8
			12	30	27	+12	02.8
			12	30	54.8	+12	07.7
			12	30	54.3	+12	07.6
			12	30	55	+12	07.6
			12	30	43.7	+12	13.4
			12	30	42.8	+12	13.3
			12	30	43	+12	13.4
	+11	23.3	12	30	17.2	+11	14.8
	+11	08.1	12	30	17.1	+11	14.7
			12	30	17.2	+11	14.8

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1927phae.proj.2312A

June 16	149	17.5	11.1	112476	12 20	17.A	+1
		-16.0	-7.0	112478	12 32	34.9	1
		~~73.5~~ 71.A		12 28 1.2 +11 5.0			
		~~-67.2~~ -60.6		12 30 18.3 +11 23.1			
				2 16.6 -15			
	148	28.7	14.0				
		- 4.7	-4.1				
		~~120.0~~ 117.8					
		- ~~19.7~~ 19.3					
	128	4.2	-6,5	122498	12 32	54.5	+1
		-35.6	23.7	112483	12 35	37.5	+
		~~17.6~~ 17.2		12 30 38.0 +12 14.2			
		~~-149.5~~ -146.0		12 33 21.0 +11 43.9			
				2 16.5 -16			
	129	14.8	-18.6				
		-25.1	11.7				
		~~62.2~~ 60.7					
		- ~~105.4~~ -102.8					
	130	17.8	-18,2				
		-22.0	12.1				
		~~74.7~~ 73.0					
		- ~~92.4~~ -90.2					
	131	30.8	-22.3				
		-9.0	8.0				
		~~129.4~~ 126.3					
		- ~~39.7~~ -36.9					

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1927phae.proj.2317A

A	+10	50.0	12	31	29.6	+11	01.1
9	+11	0P.1	12	31	29.3	+11	01.1
			12	31	29	+11	01.1
			12	32	15.5	+11	04.0
			12	32	15.6	+11	04.0
			12	32	16	+11	04.0
5	+11	59.2	12	33	11.7	+11	52.7
5	+11	2P.9	12	33	11.5	+11	52.6
			12	33	12	+11	52.6
			12	33	55.2	+11	40.6
			12	33	54.6	+11	40.6
			12	33	55	+11	40.6
			12	34	07.5	+11	41.0
			12	34	07.3	+11	41.0
			12	34	07	+11	41.0
			12	35	00.5	+11	36.9
			12	35	00.6	+11	36.9
			12	35	01.0	+11	36.9

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1927phae.proj.23172A

135	24.7	-27.8		12 3 2 54.5 +1
	-15.2	2.5		12 35 37.5 +1
	~~103.7~~ 101.3			
	- ~~63.4~~ -62.3			
150	2.3	10,3	112478	12 32 34.9 +1
star s.f.	-42.1	-10.7	112483	12 35 37.6 +1
	~~9.7~~ 9.4		12 30 18.3 +11 23.1	
	- ~~176.4~~ -172.6		12 33 21.0 +11 43.9	
			2 16.6 -15"	
147	11.4	8.0		
	-33.1	-18.0		
	~~47.9~~ 46.7			
	- ~~139.0~~ -135.7			
138	24.9	10.7		
	-19.7	-10.3		
	~~104.6~~ 102.1			
	- ~~42.9~~ -40.4			
137	22.8	16.5		
	-21.8	-4.5		
	~~95.7~~ 93.5			
	- ~~91.6~~ -89.4			
134	42.1	20.3		
	-2.4	-0.6		
	~~176.4~~ 172.6			
	- ~~10.1~~ -9.8			

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1927phae.proj.231.A

	+11	59.2	12	34	35.8	+11 31.4
	+11	2P.9	12	34	35.2	+11 31.4
			12	34	36	+11 31.4
	+11	3P.1	12	32	44.3	+11 1P.4
	+11	2P.9	12	32	45.0	+11 1P.2
			12	32	45	+11 1P.3
			12	33	21.6	+11 11.1
			12	33	21.9	+11 10.9
			12	33	22	+11 11.0
			12	34	17.0	+11 1P.P
			12	34	16.P	+11 1P.6
			12	34	17	+11 1P.7
			12	34	0P.4	+11 24.6
			12	34	0P.2	+11 24.4
			12	34	0P	+11 24.5
			12	35	27.5	+11 2P.4
			12	35	27.P	+11 2P.3
			12	35	2P	+11 2P.4

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1927phae.proj.2317A

145	4.3	−13.8	112478	12	32	34.9
	−29.8	18.4	102457	12	34	55.1
	~~+0.1~~ 17.6		12 30 18.3 +11 23.1			
	~~−125.2~~ −122.2		12 32 38.5 +10 50.9			
			2 16.6 −15			
144	16.3	−9.0				
	−18.0	23.2				
	~~61.5~~ 66.8					
	~~−75.6~~ −73.8					
139	29.3	−0.4				
	−4.8	31.7				
	~~+23.1~~ 20.1					
	~~−20.2~~ −14.7					
141	22.0	−21.0				
	−12.1	11.2				
	~~+23.1~~ 20.2					
	~~−50.0~~ −49.6					
142	13.5	−29.9				
	−20.7	12.2				
	~~56.7~~ 55.4					
	~~−46.1~~ −44.9					
136	12.2	−10.9	112483	12	35	37.6
	−1.5	20.1	112484	12	36	33.9
	~~+1.2~~ 50.0		12 33 21.0 +11 43.9			
	~~−6.3~~ −6.2		12 34 17.3 +11 12.7			
			2 16.6 −15			

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	+11	08.1	12	32	52.5	+10	54.3
	+10	35.9	12	32	52.9	+10	54.3
			12	32	53	+12	54.3
			12	33	41.7	+10	59.1
			12	33	41.3	+10	59.1
			12	33	42	+10	59.1
			12	34	35.0	+11	07.7
			12	34	35.4	+11	07.6
			12	34	35	+11	07.6
			12	34	05.1	+10	47.1
			12	34	05.5	+10	47.1
			12	34	05	+10	47.1
			12	33	30.3	+10	38.2
			12	33	30.2	+10	38.1
			12	33	30	+10	38.2
6	+11	28.9	12	36	27.6	+11	18.6
9	+10	57.7	12	36	27.7	+11	17.8
			12	36	28	+11	17.9

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140	6.0	−4.5	112480	12	34	.50.4
	−23.6	10.7	112485	12	36	51.2
	~~25.2~~ 24.6		12 52 33.8 +11 16.7			
	− ~~99.1~~ −96.8		12 34 34.6 +11 1.5			
			2 16.6 −15			
143	4.1	4.0	102454	12	33	00.7
	−23.7	−9.9	102457	12	34	55.2
	~~17.2~~ 16.6		12 30 44.0 +10 36.9			
	− ~~99.5~~ −97.2		12 32 38.5 +10 50.9			
			2 16.7 −15			
76	8.6	−7.9	122500	12	34	15.5
	−26.4	−0.1	122501	12	36	39.5
	~~36.1~~ 35.3		12 31 59.1 +12 41.6			
	− ~~110.9~~ −106.2		12 34 23.1 +12 33.8			
			2 16.4 −15			
75	16.2	−7.5				
	−18.8	0.3				
	~~68.0~~ 66.4					
	− ~~79.0~~ −77.1					
79	3.1	−19.8	132559	12	31	39.6
	−14.8	10.8	122497	12	32	53.3
	~~13.0~~ 12.7		12 29 23.3 +13 13.4			
	− ~~62.2~~ −60.7		12 30 37.0 +12 42.9			
			2 16.3 −15			
78	9.5	−7.8				
	−8.5	22.7				
	~~30.9~~ 30.0					
	− ~~35.7~~ −34.8					

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+11	01.7	12	35	15.0	+10	57.2
+10	46.5	12	35	14.4	+10	57.2
		12	35	15	+10	57.2
+10	21.9	12	33	17.5	+10	25.9
+10	35.9	12	33	18.0	+10	26.0
		12	33	18	+10	26.0
+12	26.6	12	34	50.8	+12	18.7
+12	18.8	12	34	51.3	+12	18.7
		12	34	51	+12	18.7
		12	35	21.9	+12	19.1
		12	35	22.4	+12	19.1
		12	35	22	+12	19.1
+12	58.4	12	31	52.3	+12	38.6
+12	27.9	12	31	52.6	+12	38.7
		12	31	52	+12	38.6
		12	32	18.6	+12	50.6
		12	32	18.5	+12	50.6
		12	32	19	+12	50.6

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1927phae.proj.2317A

86	26.6	3.2 −11.9	132548	12	29	01.3	+
	−18.5	15.4	122494	12	32	06.0	+
	~~+107~~ 109.1		see page 94				
	~~− 777~~ − 75.8		2 16.3 − 15				
146	26.3	−0.7	112476	12	30	17.A	+
	−13.3	27.5	102454	12	33	00.6	+
	~~+105~~ 107.A		12 28 1.2 +11 5.0				
	~~− 559~~ − 54.5		12 30 44.0 +10 36.9				
			2 16.6 − 15				
132	8.9	22.0	112483	12	35	37.5	+
	−26.4	−29.0	122505	12	3A	02.2	+
	~~+ 27.4~~ 36.5		12 33 21.0 +11 43.9				
	~~− 109~~ − 10A.2		12 35 45.7 +12 34.9				
			2 16.5 − 15				
133	14.1	23.5					
	−21.2	−27.5					
	~~+ 59.2~~ 57.A						
	~~− 49.5~~ − A6.9						

Continued in Book 4, pg. 188

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1927phae.proj.23.13A

						4.9
+13	08.1	12	30	50.4	+12	56.2
+12	43.8	12	30	50.2	+12	5.1 54.2
		12	30	50	+12	55.0
+10	50.0	12	32	05.6	+10	49.3
+10	21.9	12	32	06.1	+10	49.4
		12	32	06	+10	49.4
+11	22.9	12	36	14.0	+11	50.9
+12	19.9	12	36	14.0	+11	50.9
		12	36	14	+11	50.9
		12	36	35.3	+11	52.4
		12	36	35.3	+11	52.4
		12	36	35	+11	52.4

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A 6720 Section A.

		X	Y	Comp Stars 1855	Comp R.A. 1900	
June 17	1.	6.2	13.5	142535	12 39 27.9	+14
		-8.0	-8.0	152503	12 40 25.7	+1
		25.4		12 37 12.3 +14 47.8		
		-32.6		12 38 10.1 +15 9.5		
				2 15.6 -14.8		
	2	16.4	-11.8	142535	12 39 27.9	+1
		-6.6	-5.5	142540	12 41 01.9	+14
		67.2		12 37 12.3 +14 47.8		
		-27.1		12 38 46.3 +14 30.5		
				2 15.6 -14.8		
	3	1.4	-14.0			
		-21.4	3.4			
		5.7				
		-47.7				
	6	17.3	26.3	142531	12 35 42.4	+1
		-37.7	-14.1	142535	12 39 27.9	+1
		70.9		12 33 26.8 +14 7.5		
		-154.6		12 37 12.3 +14 47.8		
				2 15.6 -14.8		
	7	29.2	~~24.0~~			
		-25.8	-16.4			
		119.7				
		-105.2				
	8	38.9	10.5			
		-16.1	-29.8			
		159.5				
		-66.0				

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Stars Nebulae

	Dec 1900	R.A. 1900	Dec 1900.
9	+14 33.0	12 39 53.3	+14 46.5
7	+14 54.9	12 39 52.9	+14 46.7
		12 39 53	+14 46.6
9	+14 33.0	12 40 35.1	+14 21.2
9	+14 15.7	12 40 34.8	+14 21.2
		12 40 35	+14 21.2
		12 39 33.6	+14 19.0
		12 39 34.2	+14 19.7
		12 39 34	+14 19.0
4	+13 52.7	12 36 53.3	+14 19.0
9	+14 33.0	12 31 53.3	+14 18.9
		12 36 53	+14 19.0
		12 37 42.1	+14 16.9
		12 37 42.1	+14 16.6
		12 39 42	+14 16.6
		12 38 21.9	+14 03.2
		12 38 21.9	+14 03.2
		12 38 22	+14 03.2

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1927phae.proj.2814A

5	33,4	30,5		12	35	42·4	+1
	−21.6	−10.0		12	39	27·9	+1
	136·9						
	−88·6						
4	43,5	35.5					
	−11.5	−4.9					
	178·4						
	−47·1						
9	10.4	-10.0	142537	12	39	54·9	+1
	−34.5	42,5	132584	12	42	56·8	+
	42·6		12 37 39.2 +14 17.0				
	−141·4		12 40 41.1 +13 24.5				
			2 15.7 −14·8 ✓				
12	0.9	15.0	132584	12	42	56·8	+1
	−11.0	−26.5	142547	12	43	45·7	+1
	3·7		12 40 41.1 +13 24.5				
	−40·1		12 41 30.0 + 14 6.1				
			2 15·7 −14·8 ✓				
11	2,3	23.8					
	−9.6	−17.8					
	9·4						
	−39·4						
10	7.6	41.6					
	−4,3	0.0					
	31·2						
	−17·6						

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1927phae.proj.2314A

1	+13	52·7	12	37	59·3	+14	23·2
4	+14	33·0	12	37	59·3	+14	23·0
			12	37	59	+14	23·1
			12	38	40·8	+14	24·2
			12	38	40·8	+14	24·1
			12	38	41	+14	24·2
9	+14	02·2	12	40	37·5	+13	52·2
8	+13	09·7	12	40	35·4	+13	52·2
			12	40	36	+13	52·2
6	+13	09·7	12	43	00·5	+13	24·7
7	+13	51·3	12	43	00·6	+13	24·8
			12	43	01·1	+13	24·8
			12	43	06·2	+13	33·5
			12	43	06·3	+13	33·5
			12	43	06	+13	33·5
			12	43	28·8	+13	51·3
			12	43	28·1	+13	51·3
			12	43	28	+13	51·3

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1927phae.proj.281A

16	30.0	-20.9	142531	12	35	42.5
	-25.7	7.5	132574	12	39	30.7
	123.0		12 33 26.8 +14 7.5			
	-105.4		12 37 15.0 +13 39.1			
			2 16.7 -14.4			
15	33.6	-18.3				
	-22.0	10.0				
	137.4					
	-90.2					
18	35.5	-27.1				
	-20.2	1.3				
	145.6					
	-82.4					
17	36.6	-26.1				
	-19.1	2.3				
	150.1					
	-78.3					
19	40.5	-28.0				
	-15.2	0.5				
	166.0					
	-62.3					
14	50.5	-24.0				
	-5.3	4.5				
	209.0					
	-21.7					

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1927phae.proj.2311A

5	+13	52·7	12	37	45·5	+13	31·8
7	+13	24·3	12	39	45·3	+13	31·8
			12	37	45	+13	31·8
			12	3F	00·3	+13	34·4
			12	3F	00·5	+13	34·3
			12	3F	00	+13	34·4
			12	3A	0A·1	+13	25·6
			12	3F	07·9	+13	25·6
			12	3F	08	+13	25·6
			12	3F	12·6	+13	26·6
			12	3F	12·4	+13	26·6
			12	3F	12	+13	26·6
			12	3F	2F·5	+13	24·7
			12	3F	2F·4	+13	24·A
			12	3F	2F	+13	24·F
			12	39	09·5	+13	27·7
			12	39	09·0	+13	2A·P
			12	39	09	+13	28·8

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1927phae.proj.211A

13	53.2	-20.0		12	35	42.5
	-2.5	8.5		12	39	30.7
	21 A.1					
	-10.2					
20	17.3	6.0	132569	12	35	42.2
	-38.4	-2.8	132574	12	39	30.A
	70.9		12 33 26.4 +13 30.4			
	-159.4		12 37 15.0 +13 39.1			
			2 15.A -14.A			
21	7.8	6.3	132571	12	38	03.2
	-13.7	-17.4	132574	12	39	30.A
	32.0		12 35 47.4 +13 15.3			
	-56.2		12 37 15.0 +13 39.1			
			2 15.A -14.A			
22	20.8	10.7				
	-0.5	-13.1				
	45.3					
	-2.0					
38	3.3	1.8	122505	12	38	01.6
	-24.2	-45.3	132575	12	39	54.9
	13.5		12 35 45.7 +12 34.9			
	-94.2		12 37 39.0 +13 22.1			
			2 15.9 -14.A			
37	18.3	3.5				
	-9.3	-43.7				
	75.0					
	-38.1					

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1927phae.proj.231A

	+13	52.7	12	39	20.6	+13	32.7
	+13	24.3	12	39	20.5	+13	32.8
			12	39	21	+13	32.8
	+13	15.6	12	36	53.1	+13	21.6
	+13	24.3	12	36	53.4	+13	21.5
			12	36	53	+13	21.6
	+13	00.5	12	38	35.2	+13	06.8
	+13	24.3	12	38	34.6	+13	06.9
			12	38	35	+13	06.8
			12	39	24.5	+13	11.2
			12	39	24.8	+13	11.2
			12	39	29	+13	11.2
	+12	20.1	12	38	15.1	+12	21.9
	+13	07.3	12	38	15.7	+12	22.0
			12	38	15	+12	22
			12	39	16.6	+12	23.6
			12	39	16.8	+12	23.6
			12	39	17	+12	23.6

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1927phae.proj.231A

28	9.1	27.0		12	38	01.6	+12
	-18.5	-20.1		12	39	54.9	+13
	37.3						
	-15.8						
29	19.2	29.7					
	-8.4	-17.5					
	78.7						
	-34.4						
27	28.0	11.8	132568	12	35	44.0	+1
	-5.5	23.0	122505	12	38	01.6	+
	114.8		8.1				
	-22.6		12 33 23.3 +13 9.5				
			12 35 45.7 +12 34.9				
			2 15.9 -14.8				
39	20.0	-31.7					
	-13.5	3.0					
	82.0						
	-55.4						
24	33.0	-4.9					
(See N.G.C. 4640)	-0.5	29.7					
	135.3						
	-2.0						
25	25.7	-10.0					
	-7.9	24.6					
	105.4						
	-32.4						

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6	+12	20.1	12	38	38.9	+12	47.1
9	+13	07.3	12	38	39.1	+12	47.2
			12	38	39	+12	47.2
			12	39	28.3	+12	49.8
			12	39	20.5	+12	49.8
			12	39	20	+12	49.8
0	+12	54.9	12	37	38.8	+12	42.9
6	+12	20.1	12	37	39.0	+12	43.1
			12	37	39	+12	43.0
			12	37	06.0	+12	23.0
			12	37	06.2	+12	23.1
			12	37	06	+12	23.0
			12	37	59.3	+12	49.8
			12	37	59.6	+12	49.8
			12	37	59	+12	49.8
			12	37	29.4	+12	44.7
			12	37	29.2	+12	44.7
			12	37	29	+12	44.7

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1927phae.proj.231A

26	24.6	−14.0		12	35	44.0
	−8.9	20.6		12	38	01.6
	100.9					
	−36.5					
22a	18.6	= -	132568	12	35	43.9
Position corrected in RA. from 4 B.D. stars. Dec very fast just here in B.D.	−15.0	0.0	132571	12	38	03.2
	76.3		12 33 27.7 8.1 + - -			
	−61.5		12 35 47.4 +13 15.3			
			2 15.8 −14.8			
23	32.3	−1.8	132568	12	35	44.0
	−1.3	33.0	122505	12	38	01.6
	132.4		See page 146			
	−5.3		2 15.9 −14.8			
30	6.8	−21.5	132575	12	39	54.9
	−26.9	15.4	122512	12	42	12.7
	27.9		12 37 39.0 +13 22.1			
	−110.3		12 39 56.8 +12 45.1			
			2 15.9 −14.8			
31	21.2	−11.2				
	−12.5	25.8				
	86.9					
	51.2					
32	5.5	22.5	122510	12	41	06.7
	−10.7	−3.3	122512	12	42	12.8
	22.6		12 38 50.7 +12 19.4			
	−43.9		12 39 56.8 +12 45.1			
			2 16.0 −14.8			

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1927phae.proj.2312A

	+12	54.7	12	37	24.9	+12	40.1
	+12	20.1	12	37	25.1	+12	40.7
			12	37	25	+12	41.7
9	—	— —	12	37	06.2	—	— —
2	+13	05.5	12	37	01.7	+13	00.5
			12	37	01	+13	00.5
0	+12	54.7	12	37	56.4	+12	52.9
6	+12	20.1	12	37	56.3	+12	53.1
			12	37	56	+12	53
9	+13	07.3	12	40	22.4	+12	45.4
7	+12	30.3	12	40	22.4	+12	45.7
			12	40	23	+12	45.4
			12	41	21.4	+12	56.1
			12	41	21.3	+12	56.1
			12	41	22	+12	56.1
7	+12	04.6	12	41	29.3	+12	27.1
4	+12	30.3	12	41	28.9	+12	27.0
			12	41	29	+12	27.1

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1927phae.proj.231A

33	6.4	21.8		12	41	06.7	+12
	−9.7	−3.9		12	42	12.8	+12
	26.2						
	−39.8						
34	0.3	14.3					
	−15.8	−11.5					
	1.2						
	−64.8						
48	3.2	10.9	112486	12	37	08.0	+1
	−55.2	−28.9	122510	12	41	06.9	+1
	13.1		12 34 51.8 +11 39.8				
	−226.3		12 38 50.7 +12 19.4				
			2 16.2 −14.8				
49	4.1	2.0					
	−54.2	−37.7					
	16.8						
	−222.2						
50	47.7	6.8					
	−10.7	−32.8					
	145.5						
	−43.9						
51	55.2	1.2					
	−3.1	−38.4					
	226.3						
	−12.1						

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1927phae.proj.231.A

7	+12	04.6	12	41	32.9	+12	26.4
.8	+12	30.3	12	41	33.0	+12	26.4
			12	41	33	+12	26.4
			12	41	57.9	+12	18.9
			12	41	08.0	+12	18.8
			12	41	08	+12	18.8
.0	+11	25.0	12	37	21.1	+11	35.9
.9	+12	04.6	12	37	20.6	+11	35.7
			12	37	21	+11	35.8
			12	37	24.8	+11	27.0
			12	37	24.7	+11	26.9
			12	37	25	+11	27.0
			12	40	23.5	+11	31.8
			12	40	23.6	+11	31.8
			12	40	23	+11	31.8
			12	40	54.3	+11	26.2
			12	40	54.2	+11	26.2
			12	40	54	+11	26.2

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1927phae.proj.231A

45	17.5	19.4	12	37	58.0	+1
	-40.9	-20.3	12	41	06.9	+1
	71.8					
	-167.7					
44	20.3	24.4				
	-38.1	-15.4				
	83.2					
	-156.2					
43	21.4	27.5				
	-37.0	-12.3				
	87.7					
	-151.7					
42	24.5	35.2				
	-33.7	-4.5				
	100.4					
	-138.2					
41	10.7	33.4				
	-47.8	-6.4				
	43.9					
	-195.9					
46	52.3	32.7				
	-6.1	-6.9				
	214.4					
	-25.0					

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1927phae.proj.2312A

	+11	25.0	12	38	19.8	+11 44.4
	+12	04.6	12	38	19.2	+11 44.3
			12	38	20	+11 44.4
			12	38	31.2	+11 49.4
			12	38	30.7	+11 49.2
			12	38	31	+11 44.3
			12	38	35.7	+11 52.3
			12	38	35.2	+11 52.3
			12	38	35	+11 52.4
			12	38	48.4	+12 00.2
			12	38	48.7	+12 60.1
			12	38	49	+12 60.2
			12	37	51.9	+11 58.4
			12	37	51.8	+11 58.2
			12	37	51	+11 58.3
			12	40	42.4	+11 57.7
			12	40	41.9	+11 57.7
			12	40	42	+11 57.7

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1927phae.proj.2312A

47	17.1	15.6	112483	12	35	37.2	+1
	-18.3	-35.4	122505	12	38	01.9	+
	70.1		12 33 21.0 +11 43.9				
	-75.8		12 35 45.7 +12 34.9				
			2 16.2 -14.8 ✓				
54	12.8	6.4	112484	12	36	33.6	+1
	-22.7	-24.3	112487	12	38	59.6	+
	52.5		12 34 17.3 +11 12.7				
	-93.1		12 36 43.3 +11 43.5				
			2 16.3 -14.8 ✓				
55	29.5	4.0					
	-6.1	-26.8					
	121.0						
	-25.0						
59	22.3	15.8					
	-13.3	-14.9					
	91.4						
	-54.5						
52	33.5	20.3					
	-2.0	-10.5					
	137.4						
	-8.2						
40	9.5	-6.3	122505	12	38	01.7	+
	-35.6	9.1	122510	12	41	06.7	+
	39.0		12 35 45.7 +12 34.9				
	-146.0		12 38 50.7 +12 19.4				
			2 16.8 -14.8				

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1927phae.proj.2312A

2	+11	29.1	12	36	47.3	+11	44.7
7	+12	20.1	12	36	46.9	+11	44.7
			12	36	47	+11	44.7
6	+10	57.9	12	37	26.1	+11	04.3
6	+11	28.7	12	37	26.5	+11	04.4
			12	37	26	+11	04.4
			12	3P	34.6	+11	01.9
			12	3P	34.6	+11	01.9
			12	3P	35	+11	01.9
			12	3P	05.0	+11	13.7
			12	3P	05.1	+11	13.P
			12	3P	05	+11	13.P
			12	3P	51.0	+11	18.2
			12	3P	51.4	+11	18.2
			12	3P	51	+11	18.2
7	+12	20.1	12	38	40.7	+12	13.P
7	+12	04.6	12	38	40.7	+12	13.7
			12	38	41	+12	13.P

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1927phae.proj.2311A

36	32.5	−37.0	132571	12	3A	03.3	+12
	−12.0	18.9	122510	12	41	06.6	+1
	133.2		12 35 47.4 +13 15.3				
	−49.2		12 38 50.7 +12 19.4				
			2 15.9 −14.2 ✓				
35	43.1	−40.3					
	−1.7	15.5					
	176.7						
	−7.0						

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1927phae.proj.231A

+13	00.5	12	40	16.5	+12	23.5
+12	04.6	12	48	17.4	+12	23.5
		12	44	17	+12	23.5
		12	41	00.0	+12	20.2
		12	40	59.6	+12	20.1
		12	41	00	+12	20.2

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1927phae.proj:2311A

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4	5.6	− 23.8	192597	12	37	30.5	+
X4.2	− 45.0	20.7	182660	12	41	02.9	+
	23.5		12 35 15.7 +19 22.8				
	−189.0		12 38 47.9 +18 38.6				
			2 14.4 −14.4				
5	9.2	− 26.0					
	− 41.3	18.3					
	38.6						
	−173.5						
3	11.0	− 18.0					
	− 39.5	26.2					
	46.2						
	−165.9						
2	26.2	− 15.2					
	− 24.3	29.1					
	110.0						
	− 102.1						
1	44.6	− 11.5					
	− 3.0	33.0					
	199.9						
	~~189.3~~						
	− 12.6						
6	19.4	− 31.7					
	− 31.0	12.5					
	81.5						
	− 130.2						

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1927phae.proj.231A

.5	+19	08.0	12	37	54.0	+18	44.2	
.7	+18	23.8	12	37	53.7	+18	44.5	
			12	37	54	+18	44.4	
			12	38	09.1	+18	42.0	
			12	38	09.2	+18	42.1	
			12	38	09	+18	42.0	
			12	38	16.7	+18	50.0	
			12	38	16.8	+18	50.0	
			12	38	17	+18	50.0	
			12	39	20.5	+18	52.8	
			12	39	20.6	+18	52.9	
			12	39	21	+18	52.8	
					50.4			
			12	40	~~37.8~~	+18	56.5	
			12	40	50.1 ?	+18	56.8	
			12	40	50	+18	56.6	
			12	38	52.0	+18	36.3	
			12	38	52.5	+18	36.3	
			12	38	52	+18	36.3	

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1927phae.proj.231A

7	16.0	-3A.P		12	37	30.5	+1
	-34.5	5.4		12	41	02.7	+1
	67.2						
	-145.9						
8	32.0	-36.8					
	-1P.4	7.4					
	134.4						
	-77.3						
10	44.9	-29.2					
	-5.P	15.0					
	1P7.7						
	-24.4						
11	9.3	-12.2	192604	12	40	32.4	+19
	-33.0	42.6	182663	12	43	29.9	+1
	39.1		12 38 17.6 +19 17.3				
	-13A.6		12 41 15.1 +18 22.2				
			2 14.P -14.P				
19	15.1	0.0	182652	12	3P	22.3	+1P
	-23.0	-1.1	182660	12	41	01.8	+1P
	63.4		12 36 7.4 +18 37.5				
	-96.6		12 38 47.9 +18 38.6				
			2 14.9 -14.P				
13	3.4	26.1	172525	12	31	41.0	+17
	-44.6	-13.9	182660	12	41	02.9	+1
	14.3		12 35 26.0 +17 58.5				
	-1P7.3		12 38 47.9 +18 38.6				
	48.1	40.1	2 15.1 -14.8				

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1927phae.proj.2312A

5	+19	08.0	12	38	37.7	+18	29.2
7	+18	23.8	12	38	36.8	+18	29.2
			12	38	37	+18	29.2
			12	39	44.9	+18	31.2
			12	39	45.4	+18	31.2
			12	39	45	+18	31.2
			12	40	38.2	+18	38.8
			12	40	38.3	+18	38.8
			12	40	38	+18	38.8
4	+19	2.5	12	41	11.5	+18	50.3
9	+18	7.4	12	41	11.3	+18	50.6
			12	41	11	+18	50.2
3	+18	22.7	12	39	25.7	+18	22.7
6	+18	23.8	12	39	25.2	+18	22.7
			12	39	25	+18	22.7
0	+17	43.7	12	37	55.3	+18	09.8
9	+18	23.8	12	37	55.6	+18	09.9
			12	37	55	+18	09.8

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1927phae.proj.231A

12	11.5	27.1		12	37	41.0
	- 36.6	- 13.2		12	41	02.4
	4A.3					
	- 153.7					
14	15.7	14.5				
	- 32.4	- 25.7				
	65.9					
	- 136.1					
26	12.4	A.A				
	- 35.A	- 31.4				
	52.1					
	- 150.4					
27	9.8	0.9				
	- 3A.3	- 39.3				
	41.2					
	- 160.9					
15	36.7	25.5				
	- 11.5	- 14.5				
	154.1					
	- 4A.3					
16	43.0	19.5				
	- 5.0	- 20.A				
	1A0.6					
	- 21.0					

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1927phae.proj.2312A

	+17	43.7	12	38	29.3	+18	10.8
	+18	23.8	12	38	29.2	+18	10.6
			12	38	29	+18	10.7
			12	38	46.9	+17	58.2
			12	38	46.8	+17	58.1
			12	38	47	+17	58.2
			12	38	33.1	+17	52.5
			12	38	32.5	+17	52.4
			12	38	33	+17	52.4
			12	38	22.2	+17	44.6
			12	38	22.6	+17	44.5
			12	38	22	+17	44.6
			12	40	15.1	+18	09.2
			12	40	14.6	+18	09.3
			12	40	15	+18	09.2
			12	40	41.6	+18	03.2
			12	40	41.9	+18	03.0
			12	40	42	+18	03.1

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1927phae.proj.2317A

23	43.9	16.4		12	37	41.0	+1
	− 4.2	− 23.2		12	41	02.9	+
	144.4						
	− 17.6						
24	35.9	10.0					
	− 12.2	− 30.2					
	150.4						
	− 51.2						
25	33.2	5.0					
	− 14.9	− 34.9					
	139.4						
	− 62.6						
22	9.0	3.4	18 26 5-9	12	41	02.7	+1
	− 26.1	− 15.6	18 26 63	12	43	30.0	+1
	37.4		12 38 47.8 +18 2.5				
	− 109.6		12 41 15.1 +18 22.2				
			2 14.9 −14.8				
21	9.8	7.0					
	− 25.4	− 12.5					
	41.2						
	− 106.7						
20	9.0	8.4					
	− 26.0	− 11.0					
	37.8						
	− 109.2						

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1927phae.proj.2312A

	+17	43.7	12	40	45.4	+18	00.1
	+18	23.8	12	40	45.3	+18	00.0
			12	40	45	+18	00.0
			12	40	11.8	+17	53.7
			12	40	11.7	+17	53.6
			12	40	12	+17	53.6
			12	40	00.4	+17	48.7
			12	40	00.3	+17	49.1
			12	40	00	+17	48.9
7	+17	47.7	12	41	40.5	+17	51.5
.0	+18	07.4	12	41	40.4	+17	51.8
			12	41	40	+17	51.6
			12	41	43.9	+17	54.7
			12	41	43.3	+17	54.9
			12	41	44	+17	54.8
			12	41	40.5	+17	56.1
			12	41	40.8	+17	56.4
			12	41	41	+17	56.2

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1927phae.proj.231*A

17	7.1	15.5		12	41	02.9	+1
	-27.7	- 4.0		12	43	30.0	+1
	29.A						
	- 116.3						
18	14.4	14.7					
	- 20.7	- 4.9					
	60.5						
	- 86.9						
19	15.3	9.5					
	- 19.A	-10.2					
	64.3						
	- A3.2						
28	14.7	- 2.1	172525	12	37	41.1	+1
	- 32.5	39.5	172530	12	40	59.1	+1
	61.7		12 35 26.0 +17 58.5				
	- 136.5		12 38 44.0 +17 18.8				
			2 15.1 -14.8				
29	14.0	- .A.0					
	- 33.0	31.6					
	5A.A						
	- 138.6						
30	11.6	- 10.2					
	- 35.5	29.4					
	4A.7						
	- 149.1						

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1927phae.proj.2312A

7	+17	47.7	12	41	32.5	+18	03.2
0	+18	07.4	12	41	33.7	+18	03.4
			12	41	33	+18	03.3
			12	42	03.2	+18	02.4
			12	42	03.1	+18	02.5
			12	42	03	+18	02.4
			12	42	07.0	+17	57.2
			12	42	06.8	+17	57.2
			12	42	07	+17	57.2
1	+17	43.7	12	38	42.8	+17	41.6
-1	+17	04.0	12	38	42.6	+17	41.5
			12	38	43	+17	41.6
			12	38	39.9	+17	35.7
			12	38	40.5	+17	35.6
			12	38	40	+17	35.6
			12	38	29.8	+17	33.5
			12	38	30.0	+17	33.4
			12	38	30	+17	33.4

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1927phae.proj.2317A

31	22.7	− 17.3		12	37	41.1	+1
	− 24.5	22.3		12	40	59.1	+1
	95.3						
	− 102.9						
34	17.9	− 38.2					
	− 29.2	1.4					
	75.2						
	− 122.6						
32	13.0	− 1.9	182659	12	41	02.8	+1
	− 6.4	23.6	172537	12	42	25.6	+1
	54.6		12 38 47.8 +18 2.5				
	− 26.9		12 40 10.6 +17 37.1				
			2 15.0 −14.8 ✓				
33	12.8	− 6.7					
	− 6.8	18.8					
	53.8						
	− 28.6						
35	19.2	13.3	162410	12	39	51.2	+1
	− 25.6	− 11.4	172530	12	40	59.2	+
	80.6		12 35 36.0 +16 54.0				
	− 107.5		12 38 44.0 +17 18.8				
			2 15.2 −14.8 ✓				
38	31.0	22.1					
	− 13.8	− 2.5					
	130.2						
	− 58.0						

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1927phae.proj.2312A

	+17	43.9	12	39	16.4	+17	26.4
	+17	04.0	12	39	16.2	+17	26.3
			12	39	16.3	+17	26.4
			12	38	56.3	+17	05.5
			12	38	56.5	+17	05.4
			12	38	56	+17	05.4
	+17	47.7	12	41	57.4	+17	45.8
	+17	22.3	12	41	58.7	+17	45.9
			12	41	58	+17	45.8
			12	41	56.6	+17	41.0
			12	41	57.0	+17	41.1
			12	41	57	+17	41.0
	+16	39.2	12	39	11.8	+16	52.5
	+17	04.0	12	39	11.7	+16	52.6
			12	39	12	+16	52.6
			12	40	01.4	+17	01.3
			12	40	01.2	+17	01.5
			12	40	01	+17	01.4

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1927phae.proj.2312A

37	29.2	18.9	12	37	51.2	t
	− 15.8	− 5.7	12	40	59.2	t
	122.6					
	− 66.4					
36	26.1	16.3				
	− 12.9	− 8.3				
	109.6					
	− 79.4					
39	26.5	10.0				
	− 18.4	− 14.6				
	111.3					
	− 77.3					
40	32.1	13.5				
	− 12.7	− 11.2				
	134					
	− 53.3					
41	32.4	13.0				
	− 12.5	− 11.7				
	136.1					
	− 52.5					
42	33.0	11.9				
	− 11.9	− 12.7				
	138.6					
	− 50.0					

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1927phae.proj.2312A

+16	39.2	12	39	53.8	+16	58.1
+17	04.0	12	39	52.8	+16	58.3
		12	39	53	+16	58.2
		12	39	40.8	+16	55.5
		12	39	39.8	+16	55.7
		12	39	40	+16	55.6
		12	39	42.5	+16	49.2
		12	39	41.9	+16	49.4
		12	39	42	+16	49.3
		12	40	06.0	+16	52.7
		12	40	05.9	+16	52.8
		12	40	06	+16	52.8
		12	40	07.3	+16	52.2
		12	40	09.2	+16	52.3
		12	40	08	+16	52.2
		12	40	09.8	+16	51.1
		12	40	09.2	+16	51.3
		12	40	10	+16	51.2

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1927phae.proj.2317A

43	33.0	0.2		12	37	51.2
	-11.7	-24.7		12	40	59.2
	130.6					
	-49.1					
44	5.3	-7.5	162410	12	37	51.4
	-39.5	11.6	162415	12	40	57.4
	22.8		12 35 36.0 +16 54.0			
	-165.9		12 38 42.0 +16 34.8			
	44.3		2 15.4 -14.8 ✓			
45	33.0	-4.7				
	-11.4	14.5				
	130.6					
	47.9					
	-~~43.2~~					
46	36.7	-6.8				
	-8.0	12.4				
	154.1					
	-33.6					
47	0.5	-24.6	172530	12	40	59.2
	-34.8	8.9	162424	12	43	27.3
	2.1		12 38 44.0 +17 18.8			
	-149.2		12 41 12.1 +16 45.4			
			2 15.2 -14.8 ✓			
48	20.8	-26.9	172537	12	42	25.7
	-7.1	8.1	172543	12	44	22.6
	87.4		12 40 10.6 +17 37.1			
	-29.8		12 42 7.5 +17 2.1			
			2 15.1 -14.8			

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1927phae.proj.2312A

2	+16	39.2	12	40	09.8	+16	39.4
	+17	04.0	12	40	10.1	+16	39.3
			12	40	10	+16	39.4
4	+16	39.2	12	38	13.7	+16	31.7
4	+16	20.0	12	38	11.5	+16	31.6
			12	38	12	+16	31.6
			12	40	10.6	+16	34.5
			12	40	~~07.4~~ 09.5	+16	34.5
			12	40	10.0	+16	34.5
			12	40	25.5	+16	32.4
			12	40	23.8	+16	32.4
			12	40	25	+16	32.4
.2	+17	04.0	12	41	01.3	+16	39.4
3	+16	30.6	12	41	00.1	+16	39.5
			12	41	01	+16	39.4
.7	+17	22.3	12	43	53.1	+16	55.4
.6	+16	47.3	12	43	52.8	+16	55.4
			12	43	53	+16	55.4

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49	13.9	-2.9	162424	12	43	27.5	+
	-10.0	34.0	162428	12	45	07.7	+
	58.4		12 41 12.1 +16 45.4				
	-42.0		12 42 52.3 +16 8.5				
			2 15.4 -14.8 ✓				
51	34.7	20.5	162411	12	38	20.3	+1
	-2.7	-3.5	162415	12	40	57.4	+
	146.9		12 36 4.9 +16 10.8				
	-11.3		12 38 42.0 +16 34.8				
	37.4	24.0	2 15.4 -14.8 ✓				
52	34.2	19.6					
	-3.2	-4.3					
	144.6						
	-13.4						
53	2.2	-4.2	162411	12	38	20.3	+1
	-5.0	11.8	152500	12	38	50.9	+
	9.2		12 36 4.9 +16 10.8				
	-21.0		12 36 35.3 +15 54.8				
			2 15.4 -14.8 ✓				
50	19.4	-4.6	162415	12	40	57.4	+1
	-22.2	17.6	162427	12	43	52.1	+1
	81.5		12 38 42.0 +16 34.8				
	-93.2		12 41 36.7 +16 12.7				
			2 15.4 -14.8 ✓				
54	11.8	-17.5					
	-29.6	4.8					
	49.6						
	-124.3						

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1927phae.proj.2312A

5		+16	30.6	12	44	25.9	+16	27.7
7		+15	53.7	12	44	25.7	+16	27.7
				12	44	26	+16	27.9
3		+15	56.0	12	40	47.0	+16	16.5
4		+16	20.0	12	40	46.1	+16	16.5
				12	40	47	+16	16.5
				12	40	44.9	+16	15.6
				12	40	44.0	+16	15.7
				12	40	44	+16	15.6
3		+15	56.0	12	38	29.5	+15	51.8
9		+15	40.0	12	38	29.7	+15	51.8
				12	38	30	+15	51.8
4		+16	20.6	12	42	18.9	+16	15.4
1		+15	57.9	12	42	18.9	+16	15.5
				12	42	19	+16	15.4
				12	41	47.0	+16	02.5
				12	41	47.8	+16	02.7
				12	41	47	+16	02.6

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1927phae.proj.231.A

55	24.3	11.3	172537	12	42	25.7	+
	-15.1	-9.2	172544	12	45	11.5	+
	102.1		12 40 10.6 +17 37.1				
	-63.4	20.6	12 42 56.4 +17 57.7				
			2 15.1 -14.8				

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1927phae.proj.2312A

7	+17	22.3	12	44	7.8	+17	33.6
5	+17	42.9	12	44	8.1	+17	33.7
			12	44	8	+17	33.6

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1927phae.proj.23...A

A 6719 Section D.

X4.2 8	7.0	− 22.5	192568	12	21	28.4	+1
	− 41.5	10.5	192575	12	24	52.1	+1
	29.4		12 19 12,0 +19 42.1				
	− 174.3		12 22 35.7 +19 9.0				
	48.5	33.1	2 16.4 −15.0				
3	8.7	− 15.1					
	− 40.0	18.1					
	36.5						
	−168.0						
2	12.0	− 10.9					
	− 36.5	22.2					
	50.4						
	− 153.3						
7	11.5	− 24.1					
	− 37.6	09.0					
	48.3						
	− 155.4						
9	16.5	− 27.8					
	− 32.0	5.5					
	69.3						
	− 134.4						
6	18.3	− 21.5					
	− 30.3	11.5					
	76.9						
	− 127.3						

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1927phae.proj.231A

+19	27.1	12	21	57.2	+19	04.6
+18	54.0	12	21	57.2	+19	04.5
		12	21	58.8	+19	04.6
		12	22	04.9	+19	12.0
		12	22	4.1	+19	12.1
		12	22	04	+19	12.0
		12	22	18.2	+19	16.2
		12	22	18.2	+19	16.2
		12	22	19	+19	16.2
		12	22	16.7	+19	03.0
		12	22	16.7	+19	03.0
		12	22	17	+19	03.0
		12	22	37.7	+18	59.3
		12	22	37.7	+18	58.5
		12	22	38	+18	59.4
		12	22	45.3	+19	05.6
		12	22	44.8	+19	05.5
		12	22	45	+19	05.6

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1927phae.proj.2317A

4	22.6	- 17.3		12	21	28.4	+1
	-25.8	15.8		12	24	52.1	+1
	94.9						
	-108.4						
5	29.6	- 19.1					
	- 18.9	14.0					
	1243						
	- 79.4						
10	17.5	16.3	182611	12	22	31.8	+18
	-16.0	-13.8	192575	12	24	52.1	+1
	73.5		12 20 15.4 +18 38.9				
	- 67.2		12 22 35.7 +19 9.0				
	33.4	30.1	2 16.4 -15.3				
15	0.0	4.3					
	-33.5	-25.8					
	0.0						
	-140.7						
13	20.3	-6.9	182609	12	20	30.4	+18
	- 8.6	12.2	182611	12	22	31.9	+1
	85.3		12 18 13.9 +18 57.9				
	- 36.1		12 20 15.4 +18 38.9				
	28.4	19.0	2 16.5 -15.0				
14	22.8	-14.3					
	-6.0	4.7					
	95.8						
	-25.2						

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1927phae.proj.2312A

	+19	27.1	12	23	03.3	+19		09.8
	+18	54.0	12	23	03.7	+19		09.8
			12	23	04	+19		09.8
			12	23	32.7	+19		08.0
			12	23	32.7	+19		08.0
			12	23	33	+19		08.0
F	+18	23.9	12	23	45.3	+18		40.2
1	+18	54.0	12	23	44.9	+18		40.2
			12	23	45	+18		40.2
			12	22	31.8	+18		28.2
			12	22	31.4	+18		28.2
			12	22	32	+18		28.2
4	+18	42.9	12	21	55.7	+18		36.0
9	+18	23.9	12	21	55.8	+18		36.1
			12	21	56	+18		36.0
			12	22	06.2	+18		28.6
			12	22	06.7	+18		28.6
			12	22	06	+18		28.6

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1927phae.proj.23...A

18	1.6	−15.8		12	20	30.4
	−27.3	3.2		12	22	31.9
	6.7					
	−114.7					
19	12.5	7.6	182607	12	20	03.9
	−22.6	−4.A	182611	12	22	31.9
	52.5		12 17 47.4 +18 26.5			
	−94.9		12 20 15.4 +18 38.9			
	35.2	12.4	2 16.5 −16.0			
20	14.5	6.6				
	−20.6	−5.9				
	60.9					
	−46.5					
21	17.4	5.5				
	−17.7	−6.9				
	73.1					
	−74.3					
22	12.6	0.7				
	−16.5	−11.6				
	74.1					
	−69.3					
17	17.4	4.5				
	−17.7	−3.6				
	73.1					
	−74.3					

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1927phae.proj.2312A

+1P	42.9	12	20	37.1	+1P	27.1
+1P	23.4	12	20	37.2	+1P	27.1
		12	20	37	+18	27.1
+1P	11.5	12	20	56.4	+1P	19.1
+1P	23.9	12	20	57.0	+1P	19.1
		12	20	57	+18	19.1
		12	21	04.8	+1P	18.1
		12	21	05.4	+1P	18.0
		12	21	05	+18	18.0
		12	21	17.0	+1P	17.0
		12	21	17.6	+1P	17.0
		12	21	17	+18	17.0
		12	21	22.0	+1P	12.2
		12	21	22.6	+1P	12.3
		12	21	22	+18	12.2
		12	21	17.0	+1P	20.3
		12	21	16.6	+1P	20.3
		12	21	17	+18	20.3

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1927phae.proj.2317A

16	30.2	11.5		12 20 03.9		+1
	− 4.8	− 1.0		12 22 31.9		+1
	126.8					
	− 20.2					
29	8.2	− 15.9	182607	12 20 03.9		+1
	− 25.8	4.6	182610	12 22 28.2		+1
	34.4		12 17 47.4 +18 26.5			
	− 108.4		12 20 11.7 +18 6.0			
	34.1	20.5	2 16.5 −15.8			
28	9.5	− 10.5				
	− 24.6	10.0				
	39.9					
	− 103.3					
27	16.5	− 13.1				
	− 17.5	9.3				
	69.3					
	− 73.5					
23	4.7	14.2	182610	12 22 28.2		+17
	− 28.6	− 5.1	182615	12 24 48.4		+1
	19.7		12 20 11.7 +18 6.0			
	− 120.1		12 22 31.9 +18 27.2			
	33.4	21.2	2 16.5 −15.0			
24	10.3	19.2				
	− 23.1	− 2.0				
	43.3					
	− 97.0					

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1927phae.proj.2312A

	+1P	11.5	12	22	10.7	+1P	23.0	
	+1P	23.9	12	22	11.7	+1P	22.9	
			12	22	11	+18	23.0	
	+1P	11.5	12	20	38.3	+17	55.5	
	+17	51.0	12	20	39.8	+17	55.6	
			12	20	39	+17	55.6	
			12	20	43.8	+18	01.0	
			12	20	44.9	+18	01.0	
			12	20	44	+18	01.0	
			12	21	13.2	+17	58.4	
			12	21	14.7	+17	58.3	
			12	21	14	+17	58.4	
2	+17	51.0	12	22	47.9	+18	07.2	
4	+18	12.2	12	22	48.3	+18	07.1	
			12	22	48	+18	07.2	
			12	23	11.5	+18	10.2	
			12	23	11.4	+18	10.2	
			12	23	11	+18	10.2	

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1927phae.proj.2311A

26	13.5	2.A		12	22	2P.2	+1
	-19.7	-1P.5		12	24	4A.4	+1
	56.7						
	-42.7						
25	19.3	4.7					
	-14.1	-16.5					
	41.1						
	-34.2						
32	15.0	-12.3	182602	12	16	27.3	+1
Dec 11 2480 corrected	-6.7	~~21.3~~	172480	12	19	59.1	+1
from 6 B.D stars.	63.0	25.7	12 16 10.7 +18 9.6				
	-28.1		12 17 42.5 +17 ~~29.5~~ 31.5				
	21.8	38.1	2 16.6 -15.0				
33	19.5	-17.7					
	-2.5	~~15.9~~					
	41.9	20.2					
	-10.5						
47	10.1	8.7	172480	12	19	59.1	+1
	-25.3	-25.7	182610	12	22	2F.3	+1
	42.4		12 17 42.5 +17 31.5				
	-106.3		12 20 11.7 +18 6.0				
	35.5	34.5	2 16.6 -15.0				
51	15.7	1.F					
	-19.7	-32.6					
	65.9						
	-42.7						

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1927phae.proj.2812A

+17	57.0	12	23	24.9	+17	53.8
+18	12.2	12	23	25.7	+17	53.7
		12	23	25	+17	53.8
		12	23	49.3	+17	55.7
		12	23	49.2	+17	56.7
		12	23	49	+17	55.7
+17	54.6	12	19	30.3	+17	42.3
+17	16.5	12	19	31.0	+17	~~37.8~~ 42.2
		12	19	31	+17	42.2
		12	19	49.2	+17	36.9
		12	19	48.6	+17	36.7
		12	19	49	+17	36.8
+17	16.5	12	20	41.5	+17	25.3
+17	51.0	12	20	42.0	+17	25.2
		12	20	42	+17	25.2
		12	21	05.0	+17	18.3
		12	21	05.6	+17	18.4
		12	21	05	+17	18.4

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1927phae.proj.2317A

50	23.1	0.2	12	19	39.1		+1
	−12.3	−34.3	12	22	28.3		+1
	97.0						
	−51.7						
48	24.8	5.0					
	− 8.2	−29.4					
	104.2						
	−34.4						
46	28.8	7.7					
	− 6.6	−26.8					
	121.0						
	−27.7						
49	33.9	0.9					
	− 1.3	−33.7					
	142.4						
	− 5.5						
45	35.6	9.6					
	− 0.0	−25.1					
	149.5						
	0.0						
41	34.5	14.9					
	− 0.8	−19.8					
	145.4						
	− 3.4						

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1927phae.proj.2313A

+17	16.5	12	21	36.1	+17	16.7
+17	51.0	12	21	36.6	+17	16.7
		12	21	36	+17	16.7
		12	21	43.3	+17	21.5
		12	21	43.9	+17	21.6
		12	21	44	+17	21.6
		12	22	00.1	+17	24.2
		12	22	00.6	+17	24.2
		12	22	00	+17	24.2
		12	22	21.5	+17	17.4
		12	22	22.0	+17	17.3
		12	22	22	+17	17.4
		12	22	25.6	+17	26.1
		12	22	25.3	+17	26.0
		12	22	25	+17	26.0
		12	22	25.0	+17	31.4
		12	22	24.9	+17	31.2
		12	22	25	+17	31.3

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1927phae.proj.231A

40	33.5	18.0		12	19	59.1	+
	- 1.8	- 16.5		12	22	20.3	+
	140.7						
	- 7.6						
39	31.3	17.6					
	- 4.2	- 16.9					
	131.5						
	- 17.6						
34	26.0	20.8					
	- 9.5	- 13.9					
	104.2						
	- 39.9						
35	29.9	18.1					
	- 5.6	- 16.4					
	125.6						
	- 23.5						
36	32.2	18.7					
	- 3.2	- 15.8					
	135.2						
	- 13.4						
37	34.8	19.0					
	- 0.7	- 15.5					
	147.2						
	- 2.9						

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1927phae.proj.2312A

+17	16.5	12	22	19.8	+17	34.5
+17	51.0	12	22	20.1	+17	34.5
		12	22	20	+17	34.5
		12	22	10.6	+17	34.1
		12	22	10.7	+17	34.1
		12	22	11	+17	34.1
		12	21	48.3	+17	37.3
		12	21	48.4	+17	37.3
		12	21	48	+17	37.3
		12	22	04.7	+17	34.6
		12	22	04.8	+17	34.6
		12	22	05	+17	34.6
		12	22	14.3	+17	35.2
		12	22	14.9	+17	35.2
		12	22	15	+17	35.2
		12	22	26.3	+17	35.5
		12	22	25.4	+17	35.5
		12	22	26	+17	35.5

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1927phae.proj.2314A

30	24.5	32.7		12	19	59.1	+
	− 11.1	− 1.8		12	22	28.3	+
	102.9						
	− 46.6						
31	12.8	− 10.0	182610	12	22	28.3	+
	− 2.7	22.4	172488	12	23	33.3	+
	53.8		12 20 11.7 +18 6.0				
	− 11.3		12 21 16.7 +17 33.7				
	15.5	32.3	2 16.6 −15.0				
38	0.8	− 17.4					
	− 14.7	15.0					
	3.4						
	− 61.7						
44	2.3	− 24.8					
	− 13.2	7.6					
	9.7						
	− 55.4						
43	10.1	− 24.4					
	− 5.4	4.0					
	42.4						
	− 22.7						
42	17.7	− 27.6					
	+ 2.3	4.8					
	74.3						
	+ 9.7						

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1927phae.proj.2315A

	+17	16.5	12	21	42.0	+17	49.2
3	+17	51.0	12	21	41.7	+17	49.2
			12	21	42	+17	49.2
3	+17	51.0	12	23	22.1	+17	41.0
	+17	18.7	12	23	22.0	+17	41.1
			12	23	22	+17	41.0
			12	22	31.7	+17	33.6
			12	22	31.6	+17	33.7
			12	22	32	+17	33.6
			12	22	38.0	+17	26.2
			12	22	37.9	+17	26.3
			12	22	38	+17	26.2
			12	23	16.7	+17	26.6
			12	23	10.6	+17	26.7
			12	23	11	+17	26.6
			12	23	42.6	+17	23.4
			12	23	43.0	+17	23.5
			12	23	43	+17	23.4

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1927phae.proj.231A

62	6.6	10.0	172470	12	17	30.0	+1
	− 28.8	− 9.7	172480	12	19	59.1	+
	27.9		12 15 13.4 +17 9.6				
	−121.0		12 17 42.5 +17 29.5				
	35.5	19.9	2 16.6 −15.0				
61	14.6	10.8					
	− 21.0	− 9.5					
	61.3						
	− 88.2						
63	15.2	0.8					
	− 20.2	−19.2					
	63.8						
	− 64.8						
52	34.4	18.5					
	− 1.1	− 1.4					
	145.5						
	− 4.6						
60	4.5	−16.8	172480	12	19	59.1	+1
	− 15.0	14.6	172483	12	21	21.4	+
	18.9		12 17 42.5 +17 31.1				
	− 63.0		12 19 4.8 +17 9.8				
	19.6	27.3	2 16.6 −15.0				
53	10.5	− 4.5					
	− 9.0	16.7					
	44.1						
	− 37.8						

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1927phae.proj.231A

+16	54.6	12	17	57.7	+17	04.6	
+17	14.5	12	17	58.1	+17	04.8	
		12	17	58	+17	04.7	
		12	18	31.3	+17	05.4	
		12	18	30.9	+17	05.0	
		12	18	31	+17	05.2	
		12	18	33.8	+16	55.4	
		12	18	34.3	+16	55.3	
		12	18	34	+16	55.4	
		12	19	55.5	+17	13.1	
		12	19	54.5	+17	13.1	
		12	19	58.5	+17	13.1	
.1	+17	16.1	12	20	18.0	+16	59.3
4	+16	54.8	12	20	18.4	+16	59.4
			12	20	18	+16	59.4
			12	20	43.2	+17	11.6
			12	20	43.6	+17	11.5
			12	20	43	+17	11.6

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1927phae.proj.23:7A

		5.7			
59	13.0	-11.2		12 19 59.1	+1
	- 6.6	5.7		12 21 21.4	+1
	54.6				
	- 27.7				
58	2.0	10.F	172483	12 21 21.4	+1
	- 29.2	- 13.1	172488	12 23 33.3	+
	8.4		12 19 4.8 +17 9.8		
	- 122.6		12 21 16.7 +17 33.7		
	31.4	23.9	2 16.6 -15.0		
54	1.5	16.6			
	- 29.7	- 7.3			
	6.3				
	- 124.7				
55	10.2	13.9			
	- 21.1	- 10.1			
	42.F				
	- 88.6				
56	14.5	16.0			
	- 16.7	- F.0			
	60.9				
	- 70.1				
57	12.5	1F.3			
	- 1F.9	- 15.7			
	52.5				
	- 79.4				

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1927phae.proj.2312A

+17	16.1	12	20	53.7	+17	00.4	7
+16	54.8	12	20	53.7	+17	00.5	
		12	20	54	+17	00.4	
+16	54.8	12	21	29.8	+17	05.6	
+17	18.8	12	21	28.6	+17	05.6	
		12	21	29	+17	05.6	
		12	21	27.7	+17	11.4	
		12	21	28.6	+17	11.4	
		12	21	28	+17	11.4	
		12	22	04.2	+17	04.7	
		12	22	4.7	+17	04.6	
		12	22	04	+17	04.6	
		12	22	22.3	+17	10.2	
		12	22	23.2	+17	10.7	
		12	22	23	+17	10.8	
		12	22	13.9	+17	03.1	9
		12	22	13.9	+17	03.0	
		12	22	14	+17	03.0	

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1927phae.proj.231A

79	17.1	0.6		12	21	21.4
	− 14.1	− 23.3		12	23	33.3
	71.A					
	− 59.2					
80	18.5	0.2				
	− 13.2	− 23.A				
	77.7					
	− 55.4					
81	29.7	1.0				
	− 1.5	− 23.0				
	124.7					
	− 6.3					
83	41.2	− 21.4	172488	12	23	33.3
	− 35.6	11.2	172492	12	24	21.0
	17.6		12 21 16.7 + 17 33.7			
	−149.5		12 24 4.4 + 17 1.0			
	39.9	32.7	2 16.6 −15.0			
82	3.3	− 24.0				
	− 36.6	A.7				
	13.9					
	− 153.7					
84	2.5	− 32.5				
	− 37.5	0.3				
	10.5					
	− 157.5					

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1927phae.proj.2312A

4	+16	54.f	12	22	33.2	+16	55.4
	+17	14.9	12	22	34.1	+16	55.4
			12	22	34	+16	55.4
			12	22	39.1	+16	55.0
			12	22	37.9	+16	54.9
			12	22	38	+16	55.0
			12	23	26.1	+16	55.8
			12	23	27.0	+17 (6)	55.7 (5)
			12	23	27	+16	55.8
3	+17	14.7	12	23	50.9	+16	57.3
0	+16	46.0	12	23	51.5	+16	57.2
			12	23	51	+16	57.2
			12	23	47.2	+16	54.7
			12	23	47.3	+16	54.7
			12	23	47	+16	54.7
			12	23	43.8	+16	46.2
			12	23	43.5	+16	46.3
			12	23	44	+16	46.2

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1927phae.proj.2317A

64	9.5	-4.2	172470	12	17	30.0	+16
	-40.5	24.5	162371	12	20	59.9	+16
	39.9		12 15 13.4 +17 9.6				
	-170.1		12 18 43.3 +16 40.8				
	50.	28.8	2 16.6 -16.0				
65	21.6	- 1.6					
	-24.3	27.2					
	90.7						
	-118.9						
68	31.5	- 16.3					
	-18.4	12.5					
	132.3						
	- 97.3						
69	34.2	-13.6					
	- 11.9	15.2					
	160.4						
	- 49.1						
70	37.9	- 15.3					
	- 12.1	13.5					
	154.2						
	- 50.8						
(out) 67	11.0	- 29.2					
	- 39.0	- 0.5					
	46.2						
	-163.8						

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1927phae.proj.2312A

+16	54.6	12	1P	09.9	+16	50.4
+16	25.P	12	1P	09.P	+16	50.3
		12	1P	10	+16	50.4
		12	19	00.7	+16	53.6
		12	19	01.0	+16	53.0
		12	19	01	+16	53.0
		12	19	42.3	+16	38.3
		12	19	42.6	+16	38.3
		12	19	42	+16	38.3
		12	20	10.4	+16	41.6
		12	20	10.P	+16	41.0
		12	20	11	+16	41.0
		12	20	09.2	+16	39.3
		12	20	09.1	+16	39.3
		12	20	09	+16	39.3
		12	1P	16.2	+16	25.4
		12	1P	16.1	+16	25.3
		12	1P	16	+16	25.4

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1927phae.proj.231A

66	−8.4	−5.4	162366	12	17	48.5	+1
	−23.1	6.7	162369	12	18	50.5	+1
	−35.3		12 15 31.8 +16 38.0				
	−97.0		12 16 33.8 +16 26.0				
			2 16.7 −15.0				
71	24.5	14.0	162369	12	18	50.5	+16
	−6.5	−.9	162371	12	21	00.0	+1
	102.9		12 16 33.8 +16 26.0				
	−27.3		12 18 43.3 +16 40.8				
			2 16.7 −15.0				
72	27.4	11.2					
	−3.5	−3.6					
	115.1						
	−14.7						
78	8.7	−0.9	172483	12	21	21.4	+16
	−16.6	42.8	162377	12	23	07.6	+16
	36.5		12 19 4.8 +17 9.8				
	−69.7		12 20 51.0 +16 26.1				
			2 16.6 −15.0				
77	0.8	−8.6					
	−24.6	35.0					
	3.4						
	−103.3						
76	11.5	−22.2					
	−13.8	21.4					
	44.3						
	−58.0						

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1927phae.proj.2312A

	+16	23.0	12	17	13.2	+16	17.6
	+16	11.0	12	17	13.5	+16	17.7
			12	17	13	+16	17.6
	+16	11.0	12	20	33.4	+16	25.0
	+16	25.8	12	20	32.7	+16	24.9
			12	20	33	+16	25.0
			12	20	45.6	+16	22.2
			12	20	45.3	+16	22.2
			12	20	45	+16	22.2
+	+16	54.8	12	21	57.9	+16	53.9
6	+16	11.1	12	21	57.9	+16	53.9
			12	{~~21~~ 21	~~60~~ 58	+16	53.9
			12	21	24.8	+16	46.2
			12	21	24.3	+16	46.1
			12	21	25	+16	46.2
			12	22	09.7	+16	32.6
			12	22	09.6	+16	32.5
			12	22	10	+16	32.6

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1927phae.proj.23177A

75	17.7	-30.2		12	21	21.4	+1
	-7.5	13.3		12	23	07.6	+1
	74.3						
	-31.5						
74	10.0	-35.2					
	15.3	8.5					
	42.0						
	64.3						
(out) 73	3.2	-44.2					
	-22.0	- 0.6					
	13.4						
	-92.4						
96	-5.1	-5.0	162368	12	18	40.6	+15
	-44.6	35.0	152463	12	21	26.5	+15
	-21.4		12 16 23.8 +16 2.8				
	-187.3		12 19 9.7 +15 22.9				
	39.5	39.9	2 16.f - 15.0 ✓				
95	4.7	-17.5					
	-34.9	22.5					
	19.7						
	-146.6						
94	18.6	-25.0					
	-20.8	15.0					
	78.1						
	- 87.4						

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4	+16	54.8	12	22	35.7	+16	24.6
	+16	11.5	12	22	36.1	+16	24.4
			12	22	36	+16	24.5
			12	22	03.4	+16	19.6
			12	22	03.3	+16	19.6
			12	22	03	+16	19.6
			12	21	34.8	+16	10.6
			12	21	35.2	+16	10.5
			12	21	35	+16	10.6
6	+15	47.8	12	18	19.2	+15	42.8
5	+15	07.9	12	18	19.2	+15	42.9
			12	18	19	+15	42.8
			12	19	00.3	+15	30.3
			12	18	59.9	+15	30.4
			12	19	00	+15	30.4
			12	19	58.7	+15	22.8
			12	19	59.1	+15	22.9
			12	19	59	+15	22.8

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1927phae.proj.23177A

93	25.3	-28.0		12	1A	40.6	+1
	-14.2	11.9		12	21	26.5	+1
	106.3						
	-59.6						
92	29.4	-17.5					
	-10.0	22.5					
	123.5						
	-42.0						
91	4.0	-18.5	15 2463	12	21	26.5	+1
	-20.0	-21.8	16 2378	12	23	08.2	+13
	16.8		12 19 9.7 +15 22.9				
	-44.0		12 20 51.4 +16 3.2				
	24.2	40.3	2 16.8 -15.0				
(out) 86	19.5	+41.2					
	-4.5	+ 0.8					
	41.9						
	-18.9						
88	23.6	8.8					
	-0.6	-31.5					
	99.1						
	- 2.5						
85	9.9	19.8	16 2378	12	23	08.1	+15
	-5.0	-4.5	16 2380	12	24	10.8	+16
	41.6		12 20 51.4 +16 3.2				
	-21.0		12 21 54.1 +16 27.4				
	14.9	24.2	2 16.9 -15.0				

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	+15	47.8	12	20	26.9	+15	19.8
	+15	07.9	12	20	26.9	+15	19.8
			12	20	27	+15	19.8
			12	20	44.1	+15	30.3
			12	20	44.5	+15	30.4
			12	20	44	+15	30.4
5	+15	07.9	12	21	43.3	+15	26.4
2	+15	48.2	12	21	44.2	+15	26.4
			12	21	44	+15	26.4
			12	22	48.4	+15	49.1
			12	22	49.3	+15	49.0
			12	22	49	+15	49.0
			12	23	05.6	+15	16.7
			12	23	05.7	+15	16.7
			12	23	06	+15	16.7
.1	+15	48.2	12	23	49.7	+16	08.0
8	+16	12.4	12	23	49.8	+16	07.9
			12	23	50	+16	08.0

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87	1.0	−28.9	162378	12	23	08.2	+1
	−22.0	7.0	152469	12	24	44.4	+1
	4.2		12 20 51.4 +16 3.2				
	−92.4		12 22 27.6 +15 27.4				
	22.9	35.8	2 16.8 −15.0				
90	1.7	18.2	15 2467	12	22	40.3	+1
	−27.9	−5.7	15 2469	12	24	44.4	+1
	7.1		12 20 23.5 +15 3.6				
	−117.2		12 22 27.6 +15 27.4				
		23.8	2 16.8 −15.0				
89	20.7	16.3					
	−8.9	−7.6					
	86.9						
	−37.4						
11	24.5	6.2	182609	12	20	30.3	+12
	−12.0	−4.0	192571	12	23	04.5	+1
	102.9		12 18 13.9 +18 57.9				
	−50.4		12 20 48.1 +19 8.1				
		10.2	2 16.4 −15.0				
12	14.4	6.8					
	−22.1	−3.4					
	60.5						
	−92.8						
1	37.6	−15.3	202720	12	20	52.5	+
	−21.5	7.3	202728	12	25	6.9	+
	161.7		12 18 36.2 +20 32.0				
	−92.4	22.6	12 22 50.6 +20 9.4				
			2 16.3 −15.0				

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2	+15	48.2	12	23	12.4	+15	19.3
4	+15	12.4	12	23	12.0	+15	19.4
			12	23	12	+15	19.4
3	+14	48.6	12	22	47.4	+15	06.8
4	+15	12.4	12	22	47.2	+15	06.7
			12	22	47	+15	06.8
			12	24	07.2	+15	04.9
			12	24	07.0	+15	04.8
			12	24	07	+15	04.8
3	+18	42.9	12	22	13.2	+18	49.1
5	+18	53.1	12	22	14.1	+18	49.1
			12	22	14	+18	49.1
			12	21	30.8	+18	49.7
			12	21	31.7	+18	49.7
			12	21	31	+18	49.7
5	+20	17.0	12	23	34.2	+20	1.7
9	+19	54.4	12	23	34.5	+20	1.7
			12	23	44	+20	1.7

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97	22.4	−28.7	162368	12	18	40.6	+
	−17.3	11.2	152463	12	21	26.5	+
	94.1		See pg. 206				
	−72.7						

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+15	47.8	12	20	14.7	+15	19.1
+15	07.9	12	20	13.8	+15	19.1
		12	20	13	+15	19.1

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s to a mm on A plates at different Dec.

	Cos δ	
5°	.9962	4.02
6°		
7°		
8°		
9°	.9877	4.05
10°	.9848	4.06
11°		
12°		
13°		
14°		
15°	.96593	4.14
16°	.96126	4.16
17°	.95630	4.18
18°	.95106	4.20
19°	.94552	4.23
20°	.93969	4.255

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