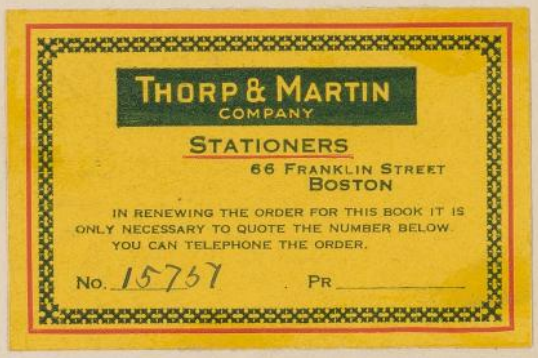
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5

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Sylvia F. Musselli



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All positions in ink are for 1900

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Positions of nebulae - 1900 - S.F.M.

	Plate No.	Page	Plate No.	Page	Plate No.	Page	Plate No.	Page
✓	A.12415	3	McCoy					
	8494	156 (cont.)						
	9346	165 (cont.)						

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17.12415

Mc Coy

Neb.	α	δ	Comp. Stars	α	δ
1060⁻	13 32 15	-31 27.6	-31 10 5 29		
	13 32 15	-31 27.6	-30 10 7 25⁻		
	13 32 15	-31 27.6	13 33 38 -31 29.6	13 37 54	-32 7.2
	Δα = 15⁰0	Δδ = 24.2′	13 31 8 -31 05.4		
	= 32.0 mm	= 24.1 mm			
5⁻3⁻4	13 32 38	-31 27.4			
	13 32 38	-31 27.4			
	13 32 38	-31 27.4		13 38 18	-31 58.0
220	13 32 15⁻	-31 27.9			
	13 32 15⁻	-31 27.9			
	13 32 15⁻	-31 27.9		13 37 54	-31 58.5
5⁻5⁻5⁻	13 31 31	-31 22.9			
	13 31 30	-31 22.9			
	13 31 30	-31 22.9		13 37 9	-31 53.6
5⁻0⁻6	13 31 5⁻4	-31 21.6			
	13 31 5⁻4	-31 21.6			
	13 31 5⁻4	-31 21.6		13 37 33	-31 52.2
557	13 32 32	-31 19.3			
	13 32 32	-31 19.3			
	13 32 32	-31 19.3		13 38 12	-31 49.9
221	13 31 5⁻4	-31 19.5⁻			
	13 31 5⁻4	-31 19.5⁻			
	13 31 5⁻4	-31 19.5⁻		13 37 33	-31 40.1

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4 A.12415

1926.	α	δ	Comp. Stars	α	δ
558	13 31 59	-31 16.0	-31 10529		
	13 31 59	-31 16.0	-30 10720		
	13 31 59	-31 16.0	13 33 38 -31 29.6	13 37 38	-31 46.6
			13 31 8 -31 05.4		
559	13 32 17	-31 11.8			
	13 32 17	-31 11.8			
	13 32 17	-31 11.8		13 37 56	-31 45.4
560	13 32 7	-31 7.4			
	13 32 7	-31 7.4			
	13 32 7	-31 7.4		13 37 46	-31 38.0
230	13 32 5	-31 7.4			
	13 32 5	-31 7.4			
	13 32 5	-31 7.4		13 37 44	-31 38.0
561	13 31 49	-31 1.2	-30 10725		
	13 31 49	-31 1.2	-30 10776 (CPD)		
	13 31 49	-31 1.2	13 31 8 -31 05.4	13 47 28	-31 31.8
	Δα = 139"	Δδ = 36.2'	13 33 27 -30 29.2		
	= 30.2 mm.	= 37.0 mm.			
662	13 31 7	-30 49.6			
	13 31 7	-30 49.6			
	13 31 7	-30 49.6		13 36 45	-31 20.3
233	13 31 27	-30 48.2			
	13 31 27	-30 48.2			
	13 31 27	-30 48.2		13 37 5	-31 18.9

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A.12413

Neb.	α	δ	Comp. Stars	α	δ
232	13 29 47	-30 43.8	-30 10648		
	13 29 46	-30 43.8	-30 10723		
	13 29 46	-30 43.8	13 29 9 -30 47.6	13 35 23	-31 14.6
	Δα = 113″	Δδ = 22.7′	13 30 06 -30 24.9		
	= 24.1 mm.	= 16.6 mm.			
661	13 29 45	-30 41.7			
	13 29 45	-30 41.7			
	13 29 45	-30 41.7		13 35 22	-31 19.5
657	13 29 22	-30 38.3			
	13 29 22	-30 38.3			
	13 29 22	-30 38.3		13 34 59	-31 9.1
658	13 29 41	-30 35.0			
	13 29 41	-30 35.0			
	13 29 41	-30 35.0		13 35 18	-31 5.8
656	13 29 22	-30 31.0			
	13 29 22	-30 31.0			
	13 29 22	-30 31.0		13 34 59	-31 1.8
238	13 30 42	-30 31.2			
	13 30 42	-30 31.2			
	13 30 42	-30 31.2		13 36 19	-31 1.9
231	13 30 22	-30 49.2	-30 10725		
	13 30 22	-30 49.2	-30 10690		
	13 30 22	-30 49.2	13 31 8 -31 05.4	13 35 59	-31 20.0
	Δα = 11.6″	Δδ = 22.9′	N 29 12 -30 42.5		
	= 26.9 mm.	= 24.1 mm.			

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6 4.12410

Neb.	α	δ	Comp. Stars	α	δ
659	13 29 51	−30 21.7	−30 10723		
	13 29 51	−30 21.7	−29 10432		
	13 29 51	−30 21.7	13 30 06 −30 24.9	13 34 28	−30 52.5
	Δα: 102″	Δδ: 30.6′	13 28 28 −29 54.2		
	= 33.0 mm.	= 31.0 mm.			
660	13 29 46	−30 22.3			
	13 29 46	−30 22.3			
	13 29 46	−30 22.3		13 35 23	−30 53.1
239	13 30 9	−30 21.6			
	13 30 9	−30 21.6			
	13 30 9	−30 21.6		13 35 46	−30 52.4
228a	13 29 40	−31 2.8	−30 10725		
	13 29 40	−31 2.9	−30 10690		
	13 29 40	−31 2.8	13 31 8 −31 5.4	13 35 19	−31 33.5
	Δα: 116″	Δδ: 22.9′	13 29 12 −30 42.5		
	= 27.0 mm.	= 24.2 mm.			
228b	13 29 46	−31 1.9			
	13 29 46	−31 1.9			
	13 29 46	−31 1.9		13 35 25	−31 32.6
663	13 30 13	−30 54.3			
	13 30 13	−30 54.3			
	13 30 13	−30 54.3		13 35 50	−31 29.1
664	13 30 17	−30 56.9			
	13 30 17	−30 56.9			
	13 30 17	−30 56.9		13 35 54	−31 27.7

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A.12415

Heb.		α			δ		Comp. Stars	α		δ	
	665	13	29	46	-30	55.1					
		13	29	46	-30	55.1					
2.5		13	29	46	-30	55.1		13	35	23	-31 25.9
	666	13	29	44	-30	55.9					
		13	29	44	-30	55.9					
		13	29	44	-30	55.9		13	35	21	-31 26.7
3.1	667	13	29	46	-31	0.2					
		13	29	46	-31	0.2					
		13	29	46	-31	0.2		13	35	25	-31 30.9
2.4	668	13	29	40	-30	56.8					
		13	29	40	-30	56.8					
		13	29	40	-30	56.8		13	35	17	-31 27.6
3.5	669	13	29	38	-30	55.3					
		13	29	38	-30	55.3					
		13	29	38	-30	55.4		13	35	15	-31 26.2
	670	13	29	53	-30	51.9					
		13	29	53	-30	51.9					
2.6		13	29	53	-30	51.9		13	35	30	-31 22.7
	671	13	29	25	-30	52.2					
		13	29	25	-30	52.2					
2.1		13	29	25	-30	52.2		13	35	2	-31 23.0
	1834	13	29	56	-30	53.2					
		13	29	56	-30	53.2					
1		13	29	56	-30	53.2		13	35	33	-31 24.0

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8 17.12415

Neb.	α	δ	Comp. Stars	α	δ
757	13 30 15	−31 26.1	−31 10483		
	13 30 15	−31 26.0	−30 10720		
	13 30 15	−31 26.0	13 29 58 −31 30.0	13 35 54	−31 56.7
	Δα: 70″	Δδ: 24.6′	13 31 8 −31 5.4		
	= 10.1 mm.	= 25.0 mm.			
1066	13 30 3	−31 23.8			
	13 30 3	−31 23.3			54.3
	13 30 3	−31 23.3		13 35 42	−31 54.3
62	13 30 3	−31 22.8			
	13 30 3	−31 22.8			53.5
	13 30 3	−31 22.8		13 35 42	−31 53.5
758	13 30 35	−31 19.9			
	13 30 35	−31 19.9			
	13 30 35	−31 19.9		13 36 14	−31 50.4
222	13 30 39	−31 17.4			
	13 30 39	−31 17.4			
	13 30 39	−31 17.4		13 36 18	−31 48.1
757	13 30 34	−31 16.5			
	13 30 34	−31 16.5			
	13 30 34	−31 16.5		13 36 13	−31 47.2
756	13 30 13	−31 17.0			
	13 30 13	−31 17.0			
	13 30 13	−31 17.0		13 35 52	−31 47.7

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A. 12415

Neb.	α			δ			Comp. Stars				α			δ	
755	13	29	59	-31	16.0										
	13	29	59	-31	16.0										
	13	29	59	-31	16.0						13	35	38	-31	46.3
223	13	30	39	-31	15.8										
	13	30	39	-31	15.8										
	13	30	39	-31	15.8						13	36	18	-31	46.6
754	13	29	58	-31	16.0										
	13	29	58	-31	16.0										
	13	29	58	-31	16.0						13	35	37	-31	46.7
752	13	29	37	-31	23.9		-31	10483							
	13	29	37	-31	23.9		-30	10662							
	13	29	37	-31	23.9	13	29	58	-31	30.0	13	35	16	-31	54.6
	Δα: 162″ = 37.9 mm.			Δδ: 25.2′ = 26.0 mm.			13	27	16	-31	4.8				
751	13	29	27	-31	22.4										
	13	29	27	-31	22.4										
	13	29	27	-31	22.4						13	35	6	-31	53.1
750	13	29	30	-31	19.6										
	13	29	30	-31	19.6										
	13	29	30	-31	19.6						13	35	9	-31	50.3
749	13	29	13	-31	19.7										
	13	29	13	-31	19.7										
	13	29	13	-31	19.7						13	34	52	-31	50.4

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10 A. 12+15

Neb.	α			δ		Comp. Stars				α			δ	
748	13	28	52	-31	17.4	-31 10483								
	13	28	52	-31	17.4	-30 10662								
	13	28	52	-31	17.4	13 29 58	-31	30.0		13	34	31	-31	48.1
						13 27 16	-31	4.8						
746a	13	28	40	-31	18.2									
	13	28	40	-31	18.2									
	13	28	40	-31	18.2					13	34	18	-31	49.0
224	13	29	5	-31	17.1									
	13	29	5	-31	17.1									
	13	29	5	-31	17.1					13	34	44	-31	47.8
1032	13	28	58	-31	15.2									
	13	28	58	-31	15.2									
	13	28	58	-31	15.2					13	34	37	-31	45.9
703	13	29	18	-31	13.8									
	13	29	18	-31	13.8									
	13	29	18	-31	13.8					13	34	57	-31	44.5
685	13	29	5	-31	15.0									
	13	29	5	-31	15.0									
	13	29	5	-31	15.0					13	34	44	-31	45.7
689	13	29	12	-31	13.8									
	13	29	12	-31	13.8									
	13	29	12	-31	13.8					13	34	51	-31	44.5

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H. 12415

Neb.	α			δ		Comp. Stars α			δ	
686	13	28	44	-31	13.3					
	13	28	44	-31	13.3					
8.1	13	28	44	-31	13.3	13	34	22	-31	44.1
684a	13	28	49	-31	12.6					
	13	28	49	-31	12.6					
9.0	13	28	49	-31	12.6	13	34	28	-31	43.3
682	13	28	57	-31	10.5					
	13	28	57	-31	10.5					
7.8	13	28	57	-31	10.5	13	34	36	-31	41.2
683	13	28	59	-31	9.6					
	13	28	59	-31	9.6					
5.9	13	28	59	-31	9.6	13	34	38	-31	40.3
739	13	28	18	-31	13.2					
	13	28	18	-31	13.2					
4.5	13	28	18	-31	13.2	13	33	56	-31	44.0
681	13	29	6	-31	9.6					
	13	29	7	-31	9.6					
.7	13	29	6	-31	9.6	13	34	45	-31	40.3
680	13	29	19	-31	9.8					
	13	29	19	-31	9.8					
.5	13	29	19	-31	9.8	13	34	58	-31	40.5

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12 7.12415

Yrb.	α			δ		Comp. Stars			α			δ	
674	13	29	25	-31	8.7		-31	10 HF3					
	13	29	25	-31	8.7		-30	10662					
	13	29	25	-31	8.7	13	29	58 -31 30.0	13	35	4	-31	49.4
						13	27	.16 -31 4.8					
677	13	29	20	-31	6.4								
	13	29	20	-31	6.4								
	13	29	20	-31	6.4				13	34	59	-31	37.1
678	13	29	7	-31	7.4								
	13	29	7	-31	7.4								
	13	29	7	-31	7.4				13	34	46	-31	38.1
675	13	29	6	-31	6.6								
	13	29	6	-31	6.5								
	13	29	6	-31	6.5				13	34	45	-31	37.2
676	13	29	18	-31	5.5								
	13	29	17	-31	5.5								
	13	29	18	-31	5.5				13	34	57	-31	36.2
1033	13	29	52	-31	6.0								
	13	29	52	-31	6.0								
	13	29	52	-31	6.0				13	35	31	-31	36.7
694	13	28	53	-31	6.3								
	13	28	53	-31	6.2								
	13	28	53	-31	6.2				13	34	32	-31	36.9

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1930phae.proj..232pm

F. 12415

Feb.	α			δ		Comp. Stars	α			δ	
287	13	28	19	-31	9.6						
	13	28	19	-31	9.6						
9.4	13	28	19	-31	9.6		13	33	57	-31	40.4
286	13	28	5	-31	9.4						
	13	28	5	-31	9.4						
	13	28	5	-31	9.4		13	33	43	-31	40.2
7.1											
288	13	27	59	-31	7.7						
	13	27	59	-31	7.7						
	13	27	59	-31	7.7		13	33	37	-31	38.5
8.1											
290	13	27	54	-31	6.0						
	13	27	54	-31	6.0						
	13	27	54	-31	6.0		13	33	32	-31	36.8
1.2											
1027	13	27	31	-31	5.5						
	13	27	31	-31	5.5						
	13	27	31	-31	5.5		13	33	8	-31	36.4
6.2											
226b	13	27	56	-31	9.6						
	13	27	56	-31	9.6						
	13	27	56	-31	9.6		13	33	34	-31	40.4
.7											
226c	13	27	54	-31	9.8						
	13	27	54	-31	9.8						
	13	27	54	-31	9.8		13	33	32	-31	40.6
.9											
226a	13	27	34	-31	9.6						
	13	27	34	-31	9.6						
	13	27	34	-31	9.6		13	33	12	-31	40.4

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14 17.1241 S

Neb.	α			δ		Comp. Stars			α			δ	
2264	13	27	53	-31	9.8		-31 10483						
	13	27	53	-31	9.8		-30 10662						
	13	27	53	-31	9.8	13	29	08	-31	30.0	13	33	31	-31	40.6
						13	27	16	-31	04.8					
1020	13	27	34	-31	10.8										
	13	27	34	-31	10.9										
	13	27	34	-31	10.8						13	33	12	-31	41.6
1021	13	27	39	-31	12.9										
	13	27	39	-31	12.9										
	13	27	39	-31	12.9						13	33	17	-31	43.7
1022	13	27	34	-31	12.9										
	13	27	34	-31	12.9										
	13	27	34	-31	12.9						13	33	16	-31	43.7
1023	13	27	34	-31	11.5										
	13	27	34	-31	11.5										
	13	27	34	-31	11.5						13	33	12	-31	42.3
1024	13	27	29	-31	11.4										
	13	27	29	-31	11.4										
	13	27	29	-31	11.4						13	33	6	-31	42.3
1067	13	27	17	-31	15.5										
	13	27	17	-31	15.5										
	13	27	17	-31	15.5						13	32	54	-31	46.4

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17.12410

Heb.	α			δ		Comp. Stars	α			δ	
1025	13	27	20	-31	15.2						
	13	27	20	-31	15.2						
0.6	13	27	20	-31	15.2		13	32	57	-31	46.1
733	13	27	6	-31	18.3						
	13	27	6	-31	18.3						
	13	27	6	-31	18.3		13	32	43	-31	49.2
1.6											
735	13	27	34	-31	19.3						
	13	27	34	-31	19.3						
	13	27	34	-31	19.3		13	33	12	-31	50.1
3.7											
736	13	27	43	-31	17.5						
	13	27	43	-31	17.5						
	13	27	43	-31	17.5		13	33	21	-31	48.3
3.7											
737	13	27	55	-31	14.6						
	13	27	55	-31	14.6						
	13	27	55	-31	14.6		13	33	33	-31	45.4
2.3											
225	13	28	11	-31	12.5						
	13	28	11	-31	12.5						
	13	28	11	-31	12.5		13	33	49	-31	43.3
2.3											
738	13	28	11	-31	13.5						
	13	28	11	-31	13.5						
	13	28	11	-31	13.5		13	33	49	-31	443
6.4											

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Heb.	α			δ		Comp. Stars						α			δ	
740	13	28	12	-31	18.1	13	29	58	-31	30.0						
	13	28	12	-31	18.1	13	27	16	-31	4.8						
	13	28	12	-31	18.1							13	33	50	-31	48.9
741	13	28	16	-31	18.2											
	13	28	16	-31	18.2											
	13	28	16	-31	18.2							13	33	54	-31	49.0
742	13	28	29	-31	21.3											
	13	28	29	-31	21.3											
	13	28	29	-31	21.3							13	34	7	-31	52.1
743a	13	28	2	-31	23.2											
	13	28	2	-31	23.2											
	13	28	2	-31	23.2							13	33	40	-31	54.0
744	13	28	25	-31	23.7											
	13	28	25	-31	23.7											
	13	28	25	-31	23.7							13	34	3	-31	54.5
745b	13	28	34	-31	25.5											
	13	28	34	-31	25.5											
	13	28	34	-31	25.5							13	34	12	-31	56.3
746b	13	28	20	-31	27.1											
	13	28	20	-31	27.1											
	13	28	20	-31	27.1							13	33	58	-31	57.9

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1930phae.proj.2324

Pl. 12413

Neb.	α	δ	Comp. Stars	α	δ
1000	13 29 8	−31 2·3	−30 10662		
	13 29 8	−31 2·3	−30 10690		
8.9	13 29 8	−31 2·3	13 27 16 −31 4.8	13 34 47	−31 33.0
	Δα = 116″	Δδ = 22·2′	13 29 12 −30 42.5		
	= 29.1 mm.	= 23.2 mm.			
9.0 1035	13 28 59	−30 5[illegible].3			
	13 28 59	−30 5[illegible].3			
	13 28 59	−30 5[illegible].3		13 34 35	−31 29.2
2.1 673	13 28 51	−30 5[illegible].3			
	13 28 51	−30 5[illegible].3			
	13 28 51	−30 5[illegible].3		13 34 27	−31 27.2
4.0 672	13 29 11	−30 5[illegible].9			
	13 29 11	−30 5[illegible].9			
	13 29 11	−30 5[illegible].9		13 34 48	−31 29.8
4.5 227a	13 28 25	−30 5[illegible].9			
	13 28 25	−30 5[illegible].9			
	13 28 25	−30 5[illegible].9		13 34 1	−31 29.8
6.3 227b	13 28 23	−30 5[illegible].2			
	13 28 23	−30 5[illegible].2			
	13 28 23	−30 5[illegible].2		13 33 59	−31 29.1
7.9 227c	13 28 16	−30 5[illegible].2			
	13 28 16	−30 5[illegible].2			
	13 28 16	−30 5[illegible].2		13 34 52	−31 29.2

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1930phae.proj.2328N

Neb.	α	δ	Comp. Stars	α	δ
227d	13 28 15	−30 54.2	−31 10662		
	13 28 15	−30 54.2	−30 10690		
	13 28 15	−30 54.2	13 27 16 −31 4.P	13 33 51	−31 29.2
			13 29. 12 −30 42.5		
227	13 28 23	−30 59.0			
	13 28 23	−30 59.0			
	13 28 23	−30 59.0		13 33 59	−31 29.9
227E	13 28 23	−30 54.6			
	13 28 23	−30 54.6			
	13 28 23	−30 54.6		13 33 59	−31 29.5
292	13 28 16	−30 57.7			
	13 28 16	−30 57.7			
	13 28 16	−30 57.7		13 33 52	−31 28.7
229	13 28 27	−30 51.4			
	13 28 27	−30 51.4			
	13 28 27	−30 51.4		13 34 3	−31 22.3
707	13 27 52	−30 46.4			
	13 27 52	−30 46.4			
	13 27 52	−30 46.4		13 33 28	−31 17.3
1030	13 27 24	−30 53.2			
	13 27 24	−30 53.2			
	13 27 24	−30 53.2		13 33 4	−31 24.2

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1930phae.proj..2328

A. 12415

Neb.	α	δ	Comp. Stars	α	δ
292a	13 27 41	-30 58.9	13 27 16 -31 4.8		
	13 27 41	-30 58.9	13 29 12 -30 42.5		
9.2	13 27 41	-30 58.9		13 33 17	-31 29.8
291	13 28 0	-30 58.0			
	13 28 0	-30 58.0			
	13 28 0	-30 58.0		13 33 36	-31 29.0
9.9					
289	13 28 12	-31 2.8			
	13 28 12	-31 2.8			
	13 28 12	-31 2.8		13 33 50	-31 33.6
9.5					
776	13 28 04	-31 41.7	-31 10 4 41		
	13 28 3	-31 41.6	-31 10 5 29		
	13 28 3	-31 41.6	13 26 52 -31 55 8.0	13 33 41	-32 12.4
8.7	Δα = 406"	Δδ = 23.4'	13 33 38 -31 29.6		
	= 86.9 mm	= 29.34 mm			
777	13 27 53	-31 51.4			
2.3	13 27 53	-31 51.2			
	13 27 53	-31 51.3		13 33 31	-32 22.1
1036	13 28 16	-31 50.3			
0.3	13 28 16	-31 50.2			
	13 28 16	-31 50.2		13 33 54	-32 21.0
780	13 28 25	-31 51.5			
4.2	13 28 24	-31 51.4			
	13 28 24	-31 51.4		13 34 2	-32 22.2

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1930phae.proj.2328N

No.	α	δ	Comp Stars	α	δ
216	13 29 2	-31 51.8	-31 10441		
	13 29 2	-31 51.7	-31 10529		
	13 29 2	-31 51.8	13 26 52 -31 53.0	13 34 41	-32 22.5
			13 33 38 -31 29.6		
775	13 28 44	-31 43.5			
	13 28 44	-31 43.4			
	13 28 44	-31 43.4		13 34 22	-32 14.2
774	13 28 40	-31 41.9			
	13 28 40	-31 41.8			
	13 28 40	-31 41.8		13 34 18	-32 12.6
773	13 28 50	-31 34.7			
	13 28 50	-31 34.6			
	13 28 50	-31 34.6		13 34 28	-32 5.3
772	13 29 45	-31 39.3			
	13 29 45	-31 39.2			
	13 29 45	-31 39.2		13 34 24	-32 9.9
1031	13 30 17	-31 31.7			
	13 30 17	-31 31.6			
	13 30 17	-31 31.6		13 35 56	-32 2.2
760	13 30 50	-31 28.7			
	13 30 50	-31 28.6			
	13 30 50	-31 28.6		13 36 29	-31 59.2

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1930phae.proj.232BN

A. 12 4 15

Feb.	α	δ	Comp. stars	α	δ
761	13 31 10	-31 30.4	13 26 52 -31 53.0		
	13 31 9	-31 30.3	13 33 32 -31 29.6		
	13 31 10	-31 30.4		13 36 49	-32 1.0
762	13 30 44	-31 33.9			
	13 30 43	-31 33.8			
	13 30 43	-31 33.8		13 36 22	-32 4.4
763	13 30 35	-31 39.0			
	13 30 35	-31 38.9			
	13 30 35	-31 39.0		13 36 14	-32 9.6
764	13 30 34	-31 40.2			
	13 30 34	-31 40.1			
	13 30 34	-31 40.2		13 36 13	-32 10.8
765	13 30 27	-31 43.0			
	13 30 27	-31 42.8			
	13 30 27	-31 43.0		13 36 5	-32 13.6
766	13 31 10	-31 39.0			
	13 31 10	-31 38.9			
	13 31 10	-31 39.0		13 36 49	-32 9.6
767	13 30 56	-31 41.4			
	13 30 55	-31 41.3			
	13 30 56	-31 41.4		13 36 35	-32 12.0

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1930phae.proj.2328M

22 R 12415

Neb.	α	δ	Comp. Stars	α	δ
768	13 31 1P	−31 39.8	−31 10441		
	13 31 1P	−31 39.7	−31 10529		
	13 31 1P	−31 39.8	13 26 02 −31 03.0	13 36 57	−32 10.4
			13 33 32 −31 29.6		
5H0	13 31 46	−31 38.7			
	13 31 46	−31 38.6			
	13 31 46	−31 38.6		13 37 25	−32 9.2
734	13 27 4P	−31 30.5			
	13 27 4P	−31 30.4			
	13 27 4P	−31 30.4		13 33 26	−32 1.2
732	13 27 1P	−31 31.7			
	13 27 1P	−31 31.6			
	13 27 1P	−31 31.6		13 32 56	−32 2.5
10H2	13 2P 13	−30 42.0	−30 10690		
	13 2P 13	−30 41.P	−30 10660		
	13 2P 13	−30 42.0	13 29 12 −30 42.5	13 33 49	−31 129
	Δα = 125″	Δδ = 33.0′	13 27 7 −30 9.5		
	= 25.3mm	= 32.9mm			
10H0	13 27 23	−30 43.5			
	13 27 23	−30 43.4			
	13 27 23	−30 43.4		13 32 58	−31 14.4

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1930phae.proj..23231

H.12415

Neb.	α	δ	Comp. stars	α	δ
1044	13 27 22	-30 42.3	13 29 12 -30 42.5		
	13 27 22	-30 42.2	13 27 7 -30 9.5		
	13 27 22	-30 42.2		13 32 57	-31 13.2
1043	13 27 23	-30 40.1			
	13 27 23	-30 40.0			
	13 27 23	-30 40.0		13 32 58	-31 11.0
654	13 28 21	-30 32.6			
	13 28 21	-30 32.5			
	13 28 21	-30 32.6		13 33 57	-31 3.5
1045	13 27 53	-30 32.4			
	13 27 53	-30 32.3			
	13 27 53	-30 32.4		13 33 29	-30 3.3
655	13 28 37	-30 27.3			
	13 28 37	-30 27.2			
	13 28 37	-30 27.2		13 34 13	-30 58.1
653	13 28 26	-30 27.5			
	13 28 26	-30 27.4			
	13 28 26	-30 27.4		13 34 2	-30 58.3
1042	13 27 48	-30 24.3			
	13 27 48	-30 24.2			
	13 27 48	-30 24.2		13 33 24	-30 55.1

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1930phae.proj.2328M

24 7.1245

Neb.	α	δ	Comp. Stars	α	δ
240a	13 27 30	−30 22.6	−30 10690		
	13 27 30	−30 22.5	−30 10660		
	13 27 30	−30 22.6	13 29 12 −30 42.0	13 33 5	−30 53.6
			13 27 7 −30 9.0		
240b	13 27 34	−30 21.5			
	13 27 34	−30 21.4			
	13 27 34	−30 21.4		13 33 14	−30 52.4
62	13 24 3	−30 19.6			
	13 24 3	−30 19.5			
	13 24 3	−30 19.6		13 33 39	−30 50.5
647	13 25 14	−30 33.7	−30 10616		
	13 25 14	−30 33.7	−30 10660		
	13 25 14	−30 33.7	13 24 32 −30 39.9	13 30 49	−31 4.9
	Δα = 105″	Δδ = 30.4′	13 27 7 −30 9.5		
	= 38.0 mm	= 31.4 mm			
149	13 25 5	−30 33.2			
	13 25 5	−30 33.2			
	13 25 5	−30 33.2		13 30 40	−31 4.4
646	13 25 24	−30 31.8			
	13 25 24	−30 31.8			
	13 25 24	−30 31.8		13 31 3	−31 3.0
150a	13 25 37	−30 29.0			
	13 25 37	−30 29.0			
	13 25 37	−30 29.0		13 31 12	−31 0.2

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1930phae.proj.2328M

17.12413°

Neb.	α			δ		Comp. Stars	α			δ	
150-b	13	25	37	-30	28.9	13 24 32 -30 39.9					
	13	25	37	-30	28.9	13 29 7 -30 9.5					
	13	25	37	-30	28.9		13	31	12	-31	0.1
644	13	25	28	-30	25.8						
	13	25	28	-30	25.8						
	13	25	28	-30	25.8		13	31	3	-30	57.0
643	13	25	28	-30	22.8						
	13	25	28	-30	22.8						
	13	25	28	-30	22.8		13	31	3	-30	54.0
1053	13	24	52	-30	21.3						
	13	24	52	-30	21.3						
	13	24	52	-30	21.3		13	30	27	-30	52.5
642	13	25	52	-30	24.2						
	13	25	52	-30	24.2						
	13	25	52	-30	24.2		13	31	28	-30	55.3
641	13	26	6	-30	25.0						
	13	26	6	-30	25.0						
	13	26	6	-30	25.0		13	31	42	-30	56.0
636	13	26	22	-30	12.4						
	13	26	22	-30	12.4						
	13	26	22	-30	12.4		13	31	58	-30	43.4

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1930phae.proj.2328M

 4.12415

Heb.	α	δ		Comp. Stars	α	δ
637	13 26 20	-30	16.1	-30 10616		
	13 26 20	-30	16.1	-30 10660		
	13 26 20	-30	16.1	13 24 32 -30 39.9	13 31 56	-30 47.1
				13 27 7 -30 9.5		
638	13 26 34	-30	17.3			
	13 26 34	-30	17.3			
	13 26 34	-30	17.3		13 32 10	-30 48.3
639	13 26 39	-30	19.1			
	13 26 39	-30	19.1			
	13 26 39	-30	19.1		13 32 15	-30 50.1
640	13 26 48	-30	21.9			
	13 26 48	-30	21.9			
	13 26 48	-30	21.9		13 32 24	-30 52.9
645	13 25 49	-30	28.9			
	13 25 49	-30	28.9			
	13 25 49	-30	28.9		13 31 25	-30 59.9
648	13 26 36	-30	31.5			
	13 26 36	-30	31.5			
	13 26 36	-30	31.5		13 32 12	-31 2.5
649	13 26 32	-30	32.5			
	13 26 32	-30	32.5			
	13 26 32	-30	32.5		13 32 8	-31 3.6

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1930phae.proj.23280

A. 12415

Feb.	α			δ		Comp. Stars	α			δ	
650	13	26	53	-30	32.0	13 24 32 -30 29.9					
	13	26	53	-30	32.0	13 27 7 -30 9.5					
	13	26	53	-30	32.0		13	32	29	-31	3.0
651	13	26	52	-30	32.8						
	13	26	52	-30	32.8						
	13	26	52	-30	32.8		13	32	28	-31.	3.8
1046	13	26	54	-30	34.6						
	13	26	54	-30	34.6						
	13	26	54	-30	34.6		13	32	30	-31	5.6
1041	13	27	2	-30	36.9						
	13	27	2	-30	36.9						
	13	27	2	-30	36.9		13	32	38	-31	7.9
65a	13	24	44	-30	13.4						
	13	24	44	-30	13.4						
	13	24	44	-30	13.4		13	30	19	-30	44.6
65b	13	24	38	-30	13.4						
	13	24	38	-30	13.4						
	13	24	38	-30	13.4		13	30	1.3	-30	44.6
66a	13	24	45	-30	11.7						
	13	24	45	-30	11.6						
	13	24	40	-30	11.6		13	30	20	-30	42.8

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1930phae.proj.2328M

28 H.12413

Feb.	α	δ	Comp. Stars	α	δ
66 b	13 24 46	-30 11.1	-30 10616		
	13 24 46	-30 11.1	-30 10660		
	13 24 46	-30 11.1	13 24 32 -30 39.9	13 30 21	-30 42.3
			13 27 7 -30 9.5		
875	13 24 43	-30 13.1			
	13 24 43	-30 13.1			
	13 24 43	-30 13.1		13 30 18	-30 44.3
14a	13 24 20	-30 40.1	-30 10616		
	13 24 20	-30 40.1	-30 10590		
	13 24 20	-30 40.1	13 24 32 -30 39.9	13 29 55	-31 11.3
	Δα = 118"	Δδ = 28.3'	13 22 34 -30 11.6		
	= 26.3mm	= 28.2mm			
14b	13 24 19	-30 40.1			
	13 24 19	-30 40.1			
	13 24 19	-30 40.1		13 29 54	-31 11.3
14c	13 24 23	-30 38.1			
	13 24 22	-30 38.1			
	13 24 22	-30 38.1		13 29 57	-31 9.3
881	13 24 25	-30 34.4			
	13 24 25	-30 34.4			
	13 24 25	-30 34.4		13 30 0	-31 5.6
1079	13 24 18	-30 29.4			
	13 24 18	-30 29.4			
	13 24 18	-30 29.4		13 29 53	-31 0.6

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1930phae.proj.2326M

A. 12H 15

Neb.	α	δ	Comp. Stars	α	δ
10P0	13 24 14	-30 30.2	13 24 32 -30 39.9		
	13 24 14	-30 30.2	13 22 34 -30 11.6		
	13 24 14	-30 30.2		13 29 49	-31 1.4
P76	13 24 21	-30 29.1			
	13 24 21	-30 29.1			
	13 24 21	-30 29.1		13 29 56	-31 0.3
P79	13 24 27	-30 21.9			
	13 24 27	-30 21.9			
	13 24 27	-30 21.9		13 30 2	-30 53.1
10°2	13 24 25	-30 18.3			
	13 24 24	-30 18.3			
	13 24 24	-30 18.3		13 29 59	-30 49.5
P78	13 23 39	-30 13.1			
	13 23 39	-30 13.1			
	13 23 37	-30 13.1		13 29 14	-30 44.3
10°3	13 22 54	-30 12.2			
	13 22 54	-30 12.2			
	13 22 54	-30 12.2		13 28 28	-30 49.5
10°1	13 23 16	-30 21.2			
	13 23 16	-30 21.2			
	13 23 16	-30 21.2		13 28 51	-30 52.4

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1930phae.proj.2328M

 9.12415

Nob.	α	δ	Comp. Stars	α	δ
49	13 24 0	-30 26.7	-30 10616		
	13 24 0	-30 26.7	-30 10590		
	13 24 0	-30 26.7	13 24 32 -30 39.9	13 29 35	-30 57.9
			13 22 34 -30 11.6		
1015	13 22 45	-30 25.1			
	13 22 45	-30 25.2			
	13 22 45	-30 25.2		13 28 19	-30 56.5
1016	13 22 53	-30 25.5			
	13 22 53	-30 25.5			
	13 22 53	-30 25.5		13 28 27	-30 56.8
1017	13 22 58	-30 27.6			
	13 22 58	-30 27.6			
	13 22 58	-30 27.6		13 28 33	-30 58.9
409	13 23 12	-30 34.4			
	13 23 12	-30 34.4			
	13 23 12	-30 34.4		13 28 47	-31 5.6
882	13 23 34	-30 36.7			
	13 23 34	-30 36.7			
	13 23 34	-30 36.7		13 29 13	-31 7.9
4112	13 22 49	-30 39.6			
	13 22 49	-30 39.6			
	13 22 49	-30 39.6		13 28 23	-31 10.9

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1930phae.proj.2326m

P.12415

Nebl.	α	δ	Comp. Stars	α			δ	
H11b	13 22 46	-30 39.5	13 24 32 -30 39.9					
	13 22 46	-30 39.5	13 22 34 -30 11.6					
	13 22 46	-30 39.5		13	28	20	-31	9.8
H10a	13 22 47	-30 37.5						
	13 22 47	-30 37.5						
	13 22 47	-30 37.5		13	28	21	-31	8.8
H10b	13 22 46	-30 36.6						
	13 22 46	-30 36.6						
	13 22 46	-30 36.6		13	28	20	-31	7.9
H10c	13 22 47	-30 36.2						
	13 22 47	-30 36.2						
	13 22 47	-30 36.2		13	28	21	-31	7.5
H10d	13 22 51	-30 34.4						
	13 22 51	-30 34.4						
	13 22 51	-30 34.4		13	28	26	-31	5.7
H10e	13 22 50	-30 36.0						
	13 22 50	-30 36.0						
	13 22 50	-30 36.0		13	28	25	-31	7.8
H10f	13 22 51	-30 36.5						
	13 22 51	-30 36.5						
	13 22 51	-30 36.5		13	28	26	-31	7.8

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1930phae.proj.2328N

32 9.12413

Neb.	α	δ	Comp. Stars	α	δ
H10 g	13 22 55	-30 34.4	-30 10616		
	13 22 55	-30 34.4	-30 10590		
	13 22 55	-30 34.4	13 24 32 -30 39.9	13 28 30	-31 5.7
			13 22 34 -30 11.6		
H10 h	13 22 52	-30 36.5			
	13 22 52	-30 36.5			
	13 22 52	-30 36.0		13 28 27	-31 7.8
H10 i	13 22 54	-30 36.3			
	13 22 54	-30 36.3			
	13 22 54	-30 36.3		13 28 33	-31 7.6
H10 k	13 23 2	-30 36.3			
	13 23 2	-30 36.3			
	13 23 2	-30 36.3		13 28 37	-31 7.5
H10 l	13 22 59	-30 37.2			
	13 22 59	-30 37.2			
	13 22 59	-30 37.2		13 28 34	-31 8.5
H10 m	13 22 54	-30 37.1			
	13 22 54	-30 37.1			
	13 22 54	-30 37.1		13 28 29	-31 8.4
H10 n	13 22 53	-30 27.5			
	13 22 53	-30 27.5			
	13 22 53	-30 27.5		13 28 28	-30 58.8

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1930phae.proj.2328

17.1245

Neb.	α	δ	Comp. Star	α	δ
1026 a	13 27 13	-31 4.4	-30 10662		
	13 27 13	-31 4.4	-30 10616		
	13 27 13	-31 4.4	13 27 16 -31 4.8	13 32 51	-31 35.3
	Δα: 164″	Δδ: 24.9′	13 24 32 -30 39.9		
	= 35.0 mm	= 24.9 mm			
706	13 26 32	-31 4.2			
	13 26 32	-31 4.2			
	13 26 32	-31 4.2		13 32 10	-31 35.1
705	13 26 39	-31 2.6			
	13 26 39	-31 2.6			
	13 26 39	-31 2.6		13 32 17	-31 33.6
704	13 26 37	-31 0.6			
	13 26 37	-31 0.6			
	13 26 37	-31 0.6		13 32 15	-31 31.5
703	13 26 56	-31 0.8			
	13 26 56	-31 0.8			
	13 26 56	-31 0.8		13 32 34	-31 31.7
715	13 25 57	-31 2.4			
	13 25 57	-31 2.4			
	13 25 57	-31 2.4		13 31 34	-31 33.3
714	13 26 9	-30 59.6			
	13 26 9	-30 59.6			
	13 26 9	-30 59.6		13 31 45	-31 30.6

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1930phae.proj.2328M

Feb.	α	δ	Comp. Stars	α	δ
713	13 26 24	-30 59.4	-30 10662		
	13 26 24	-30 59.4	-30 10616		
	13 26 24	-30 59.4	13 27 16 -31 4.6	13 32 00	-31 30.4
			13 24 32 -30 39.9		
712	13 26 12	-30 57.4			
	13 26 12	-30 57.4			
	13 26 12	-30 57.4		13 31 48	-31 28.4
711	13 26 6	-30 56.4			
	13 26 6	-30 56.4			
	13 26 6	-30 56.4		13 31 42	-31 27.4
1039	13 26 24	-30 54.6			
	13 26 24	-30 54.6			
	13 26 24	-30 54.6		13 32 00	-31 25.6
710	13 26 35	-30 51.9			
	13 26 35	-30 51.9			
	13 26 35	-30 51.9		13 32 11	-31 22.9
1014	13 26 53	-30 59.0			
	13 26 53	-30 59.0			
	13 26 53	-30 59.0		13 32 29	-30 30.0
1019	13 26 52	-30 56.7			
	13 26 52	-30 56.7			
	13 26 52	-30 56.7		13 32 28	-31 27.7

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1930phae.proj.2328

A.12H15

Neb.	α			δ			comp. stars	α			δ	
1029	13	27	1	-30	57.0		13 27 16 -31 41.8					
	13	27	1	-30	57.0		13 24 42 -30 39.9					
	13	27	1	-30	57.0			13	32	37	-31	28.0
1028	13	27	6	-30	56.1							
	13	27	6	-30	56.1							
	13	27	6	-30	56.1			13	32	42	-31	27.1
708	13	26	34	-30	42.1							
	13	26	34	-30	42.1							
	13	26	34	-30	42.1			13	32	10	-31	13.1
709	13	26	16	-30	43.3							
	13	26	16	-30	43.3							
	13	26	16	-30	43.3			13	31	52	-31	14.3
874	13	25	36	-30	40.9							
	13	25	36	-30	40.9							
	13	25	36	-30	40.9			13	31	11	-31	12.0
873	13	25	41	-30	42.7							
	13	25	41	-30	42.7							
	13	25	41	-30	42.7			13	31	16	-31	13.8
872	13	25	42	-30	44.6							
	13	25	42	-30	44.6							
	13	25	42	-30	44.6			13	31	17	-31	15.7

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1930phae.proj.2328M

36 7.12415

Feb.	α	δ	Comp. Star	α	δ
147	13 25 28	-30 45.9	-30 10662		
	13 25 28	-30 45.9	-30 10616		
	13 25 28	-30 45.9	13 27 16 -31 4.F	13 31 3	-31 17.0
			13 24 32 -30 39.9		
148	13 25 34	-30 41.9			
	13 25 34	-30 41.9			
	13 25 34	-30 41.9		13 31 9	-31 18.0
P71	13 25 24	-30 52.1			
	13 25 24	-30 52.1			
	13 25 24	-30 52.1		13 30 59	-31 23.2
P70	13 25 28	-30 52.6			
	13 25 28	-30 52.6			
	13 25 28	-30 52.6		13 31 3	-31 23.7
P69	13 25 47	-30 57.3			
	13 25 47	-30 57.3			
	13 25 47	-30 57.3		13 31 22	-31 28.4
P68	13 25 24	-30 58.6			
	13 25 24	-30 58.6			
	13 25 24	-30 58.6		13 30 59	-31 29.7
P67	13 25 47	-30 59.6			
	13 25 47	-30 59.6			
	13 25 47	-30 59.6		13 31 22	-31 30.7

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1930phae.proj.23200

Neb.	α	δ	Comp. Stars α	δ	α	δ
866	13 25 21	-31 01	13 27 16	-31 41.8		
	13 25 21	-31 01	13 24 32	-30 39.9		
	13 25 21	-31 01			13 30 58	-31 31.1
865	13 25 16	-31 3.6				
	13 25 16	-31 3.6				
	13 25 16	-31 3.6			13 30 53	-31 34.6
864	13 25 4	-31 3.6				
	13 25 4	-31 3.6				
	13 25 4	-31 3.6			13 30 41	-31 34.6
56	13 24 55	-31 4.7				
	13 24 55	-31 4.7				
	13 24 55	-31 4.7			13 30 32	-31 35.7
13A	13 25 15	-30 59.6				
	13 25 15	-30 57.6				
	13 25 15	-30 57.6			13 30 50	-31 30.7
139	13 25 16	-30 57.6				
	13 25 16	-30 57.6				
	13 25 16	-30 57.6			13 30 51	-31 28.7
106A	13 25 3	-30 57.8				
	13 25 3	-30 57.8				
	13 25 3	-30 57.8			13 30 38	-31 28.9

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1930phae.proj.2328M

Neb.	α	δ	Comps. Stars	α	δ
1071	13 24 43	−30 54.6	−30 10662		
	13 24 45	−30 54.6	−30 10616		
	13 24 45	−30 54.6	13 27 16 −31 4.8	13 30 20	−31 25.7
			13 24 32 −30 39.9		
1018	13 24 32	−30 54.6			
	13 24 32	−30 54.6			
	13 24 32	−30 54.6		13 30 7	−31 25.8
141a	13 22 52	−31 1.6	−30 10591		
	13 22 52	−31 1.6	−30 10616		
	13 22 52	−31 1.6	13 22 37 −31 2.6	13 28 28	−31 32.7
	Δδ: 115″	Δα: 22.7′	13 24 32 −30 39.9		
	= 25.0 mm	= 22.7 mm			
1073	13 22 44	−31 0.6			
	13 22 44	−31 0.6			
	13 22 44	−31 0.6		13 28 20	−31 31.7
1074	13 22 37	−31 1.6			
	13 22 37	−31 1.6			
	13 22 37	−31 1.6		13 28 13	−31 32.7
141b	13 22 43	−31 1.2			
	13 22 43	−31 1.2			
	13 22 43	−31 1.2		13 28 19	−31 32.3
141c	13 22 46	−31 0.3			
	13 22 46	−31 0.3			
	13 22 46	−31 0.3		13 29 22	−31 31.4

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1930phae.proj.23261

A.1241.5

Neb.	α	δ	Comp. Stars	α	δ
141d	13 22 49	-30 59.6	13 22 37 -31 2.6		
	13 22 49	-30 59.6	13 24 32 -30 39.9		
	13 22 49	-30 59.6		13 28 23	-31 31.6
141e	13 22 54	-31 0.4			
	13 22 54	-31 0.4			
	13 22 54	-31 0.4		13 28 30	-31 31.5
141f	13 23 0	-31 0.5			
	13 23 0	-31 0.5			
	13 23 0	-31 0.5		13 28 36	-31 31.6
192c	13 22 57	-30 59.7			
	13 22 57	-30 59.7			
	13 22 57	-30 59.7		13 28 31	-31 26.9
192d	13 22 57	-30 59.6			
	13 22 57	-30 59.6			
	13 22 57	-30 59.6		13 28 31	-31 26.8
192	13 22 59	-30 59.7			
	13 22 59	-30 59.7			
	13 22 59	-30 59.7		13 28 33	-31 26.9
193	13 22 36	-30 59.7			
	13 22 36	-30 59.7			
	13 22 36	-30 59.7		13 28 10	-31 26.9

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1930phae.proj.2328M

40 7.12.15

Neb.	α	δ	Comp. Stars	α	δ
894	13 22 33	-30 52.6	-30 10591		
	13 22 33	-30 52.6	-30 10616		
	13 22 33	-30 52.6	13 22 37 -31 2.6	13 28 7	-31 23.8
			13 24.32 -30 39.9		
143	13 22 33	-30 50.4			
	13 22 33	-30 50.4			
	13 22 33	-30 50.4		13 28 7	-30 21.6
888	13 22 37	-30 49.1			
	13 22 37	-30 49.1			
	13 22 37	-30 49.1		13 28 11	-31 20.3
1019	13 22 37	-30 47.6			
	13 22 37	-30 47.6			
	13 22 37	-30 47.6		13 28 11	-31 18.8
887	13 22 45	-30 45.6			
	13 22 45	-30 45.6			
	13 22 45	-30 45.6		13 28 21	-31 16.8
1078	13 22 46	-30 42.8			
	13 22 46	-30 42.8			
	13 22 46	-30 42.8		13 28 22	-31 14.0
1057	13 23 7	-30 43.6			
	13 23 7	-30 43.6			
	13 23 7	-30 43.6		13 28 44	-31 14.7

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1930phae.proj.2329

H. 12415

Neb.	α	δ	Comp. Stars	α	δ
883	13 23 7	-30 42.6	13 22 37 -31 2.6		
	13 23 7	-30 42.6	13 24 32 -30 39.9		
	13 23 7	-30 42.6		13 28 44	-31 13.7
146b	13 23 37	-30 45.9			
	13 23 37	-30 45.9			
	13 23 37	-30 46.9		13 29 14	-31 17.0
146a	13 23 34	-30 47.9			
	13 23 34	-30 47.9			
	13 23 34	-30 47.9		13 29 11	-31 19.0
890	13 23 30	-30 48.6			
	13 23 30	-30 48.6			
	13 23 30	-30 48.6		13 29 7	-31 19.7
889	13 23 0	-30 50.1			
	13 23 0	-30 50.1			
	13 23 0	-30 50.1		13 28 37	-31 21.2
1012	13 23 46	-30 51.8			
	13 23 46	-30 51.8			
	13 23 46	-30 51.8		13 29 23	-31 22.9
51	13 24 9	-30 48.1			
	13 24 9	-30 48.1			
	13 24 9	-30 48.1		13 29 46	-31 19.2
50	13 24 16	-30 49.2			
	13 24 16	-30 49.2			
	13 24 16	-30 49.2		13 29 55	-31 20.3

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1930phae.proj.2328M

17.12415

Neb.	α	δ	Comps. Stars	L	δ
52	13 24 27	-30 53.8	-30 10591		
	13 24 27	-30 53.8	-30 10616		
	13 24 27	-30 53.4	13 22 37 -31 2.6	13 30 2	-31 24.9
			13 24 32 -30 39.8		
923	13 24 21	-30 56.4			
	13 24 21	-30 56.4			
	13 24 21	-30 56.4		13 29 56	-31 27.5
924	13 23 55	-30 56.4			
	13 23 55	-30 56.4			
	13 23 55	-30 56.4		13 29 30	-31 27.5
1013	13 23 46	-30 53.1			
	13 23 46	-30 53.1			
	13 23 46	-30 53.1		13 29 21	-31 24.2
921	13 23 49	-30 56.6			
	13 23 49	-30 56.6			
	13 23 49	-30 56.6		13 29 24	-31 27.7
922	13 23 18	-30 58.6			
	13 23 18	-30 58.6			
	13 23 18	-30 58.6		13 28 53	-31 29.7
907	13 23 5	-31 0.2			
	13 23 5	-31 0.2			
	13 23 5	-31 0.2		13 28 41	-31 31.2

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1930phae.proj.2328

A. 12419

Neb.	α	δ	Comp. Stars	α	δ
920	13 23 38	-31 1.6	13 22 39 -31 2.6		
	13 23 30	-31 1.6	13 24 32 -30 39.9		
	13 23 30	-31 1.6		13 29 6	-31 32.6
919	13 23 33	-31 2.2			
	13 23 33	-31 2.2			
	13 23 33	-31 2.2		13 29 9	-31 33.2
918	13 23 44	-31 1.8			
	13 23 44	-31 1.8			
	13 23 44	-31 1.8		13 29 20	-31 32.8
891	13 24 5	-30 43.9			
	13 24 5	-30 43.9			
	13 24 5	-30 43.9		13 29 40	-31 15.0
836	13 23 39	-31 18.9	-31 10407		
	13 23 39	-31 19.0	-30 10091		
	13 23 39	-31 19.0	13 24 16 -31 18.5	13 29 15	-31 50.0
	Δα = 99"	Δδ = 15.9'	13 22 37 -31 2.6		
	= 21.7mm	= 16.0mm			
840	13 23 54	-31 18.5			
	13 23 54	-31 18.6			
	13 23 54	-31 18.6		13 29 30	-31 49.6
842	13 24 5	-31 13.5			
	13 24 5	-31 13.6			
	13 24 5	-31 13.6		13 29 41	-31 44.6

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1930phae.proj.232BM

Neb.	α	δ		Comp. Star			α		δ	
245	13 24 11	−31	11.5	−31 10407						
	13 24 11	−31	11.6	−30 10091						
	13 24 11	−31	11.6	13 24 16	−31	18.5	13	29 47	−31	42.6
				13 22 37	−31	2.6				
241	13 23 34	−31	14.1							
	13 23 34	−31	14.2							
	13 23 34	−31	14.2				13	29 14	−31	45.2
13Fa	13 23 30	−31	13.2							
	13 23 30	−31	13.3							
	13 23 30	−31	13.2				13	29 6	−31	44.2
235	13 23 21	−31	18.5							
	13 23 21	−31	18.6							
	13 23 21	−31	18.6				13	28 57	−31	49.6
914	13 22 44	−31	17.6							
	13 22 44	−31	17.7							
	13 22 44	−31	17.6				13	28 19	−31	48.7
915	13 22 54	−31	17.7							
	13 22 54	−31	17.8							
	13 22 54	−31	17.8				13	28 29	−31	48.9
139	13 22 58	−31	14.3							
	13 22 58	−31	14.4							
	13 22 58	−31	14.4				13	28 34	−31	46.4
913	13 22 55	−31	16.7							
	13 22 55	−31	16.8							
	13 22 55	−31	16.8				13	28 30	−31	47.9

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1930phae.proj.2326

·H.12413·

Heb.	α			δ		Comp. Stars	α			δ	
138b	13	23	22	-31	13.5	13 24 16 -31 18.5					
	13	23	22	-31	13.6	13 22 37 -31 2.6					
	13	23	22	-31	13.6		13	28	58	-31	44.6
138c	13	23	25	-31	13.0						
	13	23	25	-31	12.1						
	13	23	25	-31	13.0		13	29	1	-31	44.0
1079	13	23	12	-31	11.7						
	13	23	12	-31	11.8						
	13	23	12	-31	11.8		13	28	48	-31	42.8
911	13	23	10	-31	11.0						
	13	23	10	-31	11.1						
	13	23	10	-31	11.0		13	28	46	-31	42.0
910	13	23	3	-31	8.5						
	13	23	3	-31	8.6						
	13	23	3	-31	8.6		13	28	39	-31	39.6
905	13	22	49	-31	10.0						
	13	22	49	-31	10.1						
	13	22	49	-31	10.0		13	28	24	-31	41.1
904	13	22	36	-31	10.4						
	13	22	36	-31	10.5						
	13	22	36	-31	10.4		13	28	11	-31	41.5

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1930phae.proj.2328M

Neb.	α	δ	Comp. Stars	α	δ
906	13 22 59	-31 1.5	13 24 16 -31 18.5		
	13 22 59	-31 1.6	13 22 37 -31 2.6		
	13 22 59	-31 1.6		13 28 34	-31 32.7
909	13 23 7	-31 P.0			
	13 23 7	-31 P.1			
	13 23 7	-31 P.0		13 28 43	-31 31.0
908	13 23 12	-31 3.P			
	13 23 12	-31 3.9			
	13 23 12	-31 3.P		13 28 48	-31 34.8
912	13 23 12	-31 9.3			
	13 23 12	-31 9.4			
	13 23 12	-31 9.4		13 28 48	-31 40.4
133	13 23 45	-31 9.3			
	13 23 45	-31 9.4			
	13 23 45	-31 9.4		13 29 21	-31 40.4
916	13 23 51	-31 P.7			
	13 23 51	-31 P.P			
	13 23 51	-31 P.P		13 29 27	-31 39.8
aw	13 24 10	-31 5.5			
	13 24 10	-31 5.6			
	13 24 10	-31 5.6		13 29 46	-31 36.6

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1930phae.proj.23200

7.1241.5

Feb.	α	δ	Comp. Stars	α	δ
P17	13 24 6	-31 3.5	13 24 16 -31 1A.5		
	13 24 6	-31 3.6	13 22 37 -31 2.6		
	13 24 6	-31 3.6		13 29 42	-31 34.6
134	13 23 50	-31 2.2			
	13 23 50	-31 2.2			
	13 23 50	-31 2.2		13 29 26	-31 33.2
P39	13 24 20	-31 17.1	-31 10407		
	13 24 20	-31 17.1	-30 10662		
	13 24 20	-31 17.1	13 24 16 -31 1A.5	13 29 56	-31 48.1
	Δα = 140"	Δδ = 13.7'	13 27 16 -31 4.8		
	= 38.5mm	= 14.0mm			
P43	13 24 20	-31 13.6			
	13 24 20	-31 13.6			
	13 24 20	-31 13.6		13 29 56	-31 44.6
P44	13 24 19	-31 12.8			
	13 24 19	-31 12.8			
	13 24 19	-31 12.8		13 29 55	-31 43.8
P46	13 24 30	-31 11.6			
	13 24 30	-31 11.6			
	13 24 30	-31 11.6		13 30 6	-31 42.6
P63	13 24 51	-31 6.4			
	13 24 51	-31 6.4			
	13 24 51	-31 6.4		13 30 28	-31 37.4

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1930phae.proj.2328M

Plate	α	δ	Comp. Stars	α	δ
P61	13 25 12	-31 7.7	-31 10407		
	13 25 12	-31 7.7	-31 10662		
	13 25 12	-31 7.7	13 24 16 -31 18.3	13 30 49	-31 38.7
			13 27 16 -31 4.8		
P62	13 25 3	-31 9.7			
	13 25 3	-31 9.7			
	13 25 3	-31 9.7		13 30 40	-31 40.7
54	13 25 8	-31 10.7			
	13 25 8	-31 10.7			
	13 25 8	-31 10.7		13 30 45	-31 41.7
55b	13 25 10	-31 13.0			
	13 25 10	-31 13.0			
	13 25 10	-31 13.0		13 30 47	-31 44.0
55a	13 25 14	-31 13.6			
	13 25 14	-31 13.6			
	13 25 14	-31 13.6		13 30 51	-31 44.6
P47	13 25 8	-31 17.5			
	13 25 8	-31 17.5			
	13 25 8	-31 17.5		13 30 45	-31 48.5
P48	13 25 10	-31 12.8			
	13 25 10	-31 12.8			
	13 25 10	-31 12.8		13 30 47	-31 43.8

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1930phae.proj.2326

#12415

Neb.	α			δ		Comp. Stars					α			δ	
A50	13	25	26	-31	15.3	13	24	16	-31	18.5					
	13	25	26	-31	15.3	13	27	16	-31	4.8					
	13	25	26	-31	15.3						13	31	03	-31	46.3
A49	13	25	23	-31	14.3										
	13	25	23	-31	14.3										
	13	25	23	-31	14.3						13	31	00	-31	45.3
A51	13	25	25	-31	13.0										
	13	25	25	-31	13.0										
	13	25	25	-31	13.0						13	31	02	-31	44.0
A52	13	25	31	-31	15.3										
	13	25	31	-31	15.3										
	13	25	31	-31	15.3						13	31	8	-31	46.3
A54	13	25	39	-31	12.3										
	13	25	39	-31	12.3										
	13	25	39	-31	12.3						13	31	16	-31	43.3
A55	13	25	45	-31	13.7										
	13	25	45	-31	13.7										
	13	25	45	-31	13.7						13	31	22	-31	44.7
91A	13	25	52	-31	11.6										
	13	25	52	-31	11.6										
	13	25	52	-31	11.6						13	31	35	-31	42.6

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1930phae.proj.2328M

50 17/2413

Yr.	α	δ		Comp. Stars			α	δ
917	13 25 54	-31	10.6		-31 10407			
	13 25 54	-31	10.6		-30 10662			
	13 25 54	-31	10.6	13 24 16	-31	18.5	13 31 31	-31 41.6
				13 27 16	-31	48		
916	13 25 57	-31	5.6					
	13 25 57	-31	5.6					
	13 25 57	-31	5.6				13 31 34	-31 36.6
859	13 25 37	-31	5.8					
	13 25 37	-31	5.8					
	13 25 37	-31	5.8				13 31 14	-31 36.8
860	13 25 39	-31	4.9					
	13 25 39	-31	4.9					
	13 25 39	-31	4.9				13 31 16	-31 35.9
1070	13 25 51	-31	4.7					
	13 25 51	-31	4.7					
	13 25 51	-31	4.7				13 31 28	-31 35.7
699	13 26 27	-31	6.1					
	13 26 27	-31	6.1					
	13 26 27	-31	6.1				13 32 5	-31 37.0
698	13 26 36	-31	7.5					
	13 26 36	-31	7.5					
	13 26 36	-31	7.5				13 32 14	-31 38.4

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1930phae.proj.23200

P.12415

No.	α	δ	Comp. Stars	α	δ
697a	13 27 9	-31 6.5	13 24 16 -31 14.5		
	13 27 9	-31 6.5	13 27 16 -31 4.0		
	13 27 9	-31 6.5		13 32 47	-31 37.4
696	13 26 55	-31 11.6			
	13 26 55	-31 11.6			
	13 26 55	-31 11.6		13 32 33	-31 42.5
719	13 26 8	-31 12.8			
	13 26 8	-31 12.8			
	13 26 8	-31 12.8		13 31 46	-31 43.7
53	13 26 24	-31 11.4			
	13 26 24	-31 11.4			
	13 26 24	-31 11.4		13 32 2	-31 42.3
1026	13 27 3	-31 14.6			
	13 27 3	-31 14.6			
	13 27 3	-31 14.6		13 32 41	-31 45.5
726	13 27 4	-31 16.5			
	13 27 4	-31 16.5			
	13 27 4	-31 16.5		13 32 42	-31 47.4
137	13 26 24	-31 16.2			
	13 26 24	-31 16.2			
	13 26 24	-31 16.2		13 32 2	-31 47.1

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Neb.	α			δ		Comp. Stars				α		δ	
136	13	26	12	-31	17.9			-31	10407				
	13	26	12	-31	17.9			-30	10662				
	13	26	12	-31	17.9	13	24	16	-31	18.5	13	31	50 -31 48.8
						13	27	16	-31	4.8			
1038	13	26	22	-31	18.5								
	13	26	22	-31	18.5								
	13	26	22	-31	18.5						13	32	00 -31 49.4
653	13	25	43	-31	15.8								
	13	25	43	-31	15.8								
	13	25	43	-31	15.8						13	31	20 -31 44.8
1069	13	25	42	-31	13.8								
	13	25	42	-31	13.8								
	13	25	42	-31	13.8						13	31	19 -31 44.8
135b	13	25.5	50	-31	18.4								
	13	25.5	50	-31	18.4								
	13	25.5	50	-31	18.4						13	31	27 -31 49.4
135a	13	26	50	-31	18.5								
	13	26	50	-31	18.5								
	13	26	50	-31	18.5						13	32	28 -31 49.4
697	13	26	52	-31	6.2								
	13	26	52	-31	6.2								
	13	26	52	-31	6.2						13	32	30 -31 37.1

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A 12415

Heb.	α	δ	Comp. Stars	α	δ
808	13 24 58	-31 47.7	-31 10403		
	13 24 58	-31 47.8	-30 10662		
	13 24 58	-31 47.8	13 24 10 -31 49.3	13 30 35	-32 18.8
	Δα = 186"	Δδ = 44.5'	13 27 16 -31 7.8		
	= 39.7 mm.	= 45.3 mm.			
981	13 25 55	-31 39.1			
	13 25 55	-31 39.1			
	13 25 55	-31 39.1		13 31 33	-32 10.0
809a	13 25 27	-31 39.6			
	13 25 27	-31 39.6			
	13 25 27	-31 39.6		13 31 04	-32 10.6
140	13 25 14	-31 38.2			
	13 25 14	-31 38.2			
	13 25 14	-31 38.2		13 30 51	-32 9.2
810	13 25 2	-31 34.8			
	13 25 2	-31 34.8			
	13 25 2	-31 34.8		13 30 39	-32 5.8
68	13 24 43	-31 35.1			
	13 24 43	-31 35.1			
	13 24 43	-31 35.1		13 30 20	-32 6.1
929	13 24 19	-31 34.0			
	13 24 20	-31 34.0			
	13 24 20	-31 34.0		13 29 56	-32 5.1

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Zeb.	α	δ	Comp. Stars	α	δ
811	13 25 2	-31 32.6	-31 10403		
	13 25 2	-31 32.6	-30 10662		
	13 25 2	-31 32.6	13 24 10 -31 49.3	13 30 39	-32 3.6
			13 27 16 -31 48		
1050	13 25 10	-31 31.6			
	13 25 10	-31 31.6			
	13 25 10	-31 31.6		13 30 47	-32 2.6
1051	13 25 1	-31 30.0			
	13 25 1	-31 30.0			
	13 25 1	-31 30.0		13 30 38	-32 1.0
1049	13 25 21	-31 34.0			
	13 25 21	-31 34.0			
	13 25 21	-31 34.0		13 30 58	-32 5.0
57	13 24 24	-31 31.3			
	13 24 24	-31 31.4			
	13 24 24	-31 31.4		13 30 00	-32 2.5
819	13 24 36	-31 28.5			
	13 24 36	-31 28.5			
	13 24 36	-31 28.5		13 30 12	-31 59.6
820	13 24 24	-31 26.2			
	13 24 24	-31 26.2			
	13 24 24	-31 26.2		13 30 00	-31 57.3

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47.12H15

Nebula	α	δ	Comp. Stars	α	δ
#21	13 24 21	-31 25.2	13 24 10 -31 49.3		
	13 24 21	-31 20.2	13 27 16 -31 4.8		
	13 24 21	-31 25.2		13 29 57	-31 56.3
#22	13 24 23	-31 21.8			
	13 24 23	-31 21.8			
	13 24 23	-31 21.8		13 29 59	-31 52.9
#15	13 25 2	-31 21.4			
	13 25 2	-31 21.5			
	13 25 2	-31 21.4		13 30 39	-31 52.4
#16	13 24 43	-31 23.3			
	13 24 43	-31 23.3			
	13 24 43	-31 23.3		13 30 20	-31 54.3
#17	13 24 28	-31 21.2			
	13 24 28	-31 21.2			
	13 24 28	-31 21.2		13 30 04	-31 52.3
#18	13 24 43	-31 24.9			
	13 24 43	-31 24.9			
	13 24 43	-31 24.9		13 30 20	-31 55.9
#12	13 25 15	-31 25.2			
	13 25 15	-31 25.2			
	13 25 15	-31 25.2		13 30 52	-31 56.2

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Obs.	α	δ	Comp. Stars	α	δ
814	13 25 7	-31 20.7	-31 10403		
	13 25 7	-31 20.7	-30 10662		
	13 25 7	-31 20.7	13 24 10 -31 49.3	13 30 44	-31 51.7
			13 27 16 -31 4.8		
813	13 25 10	-31 20.3			
	13 25 10	-31 20.3			
	13 25 10	-31 20.3		13 30 47	-31 51.3
1001	13 25 39	-31 21.3			
	13 25 39	-31 21.3			
	13 25 39	-31 21.3		13 31 16	-31 54.3
720	13 25 55	-31 25.7			
	13 25 55	-31 25.7			
	13 25 55	-31 25.7		13 31 32	-31 56.7
721	13 26 14	-31 24.4			
	13 26 14	-31 24.5			
	13 26 14	-31 24.4		13 31 52	-31 55.3
722	13 26 30	-31 24.4			
	13 26 30	-31 24.5			
	13 26 30	-31 24.4		13 32 08	-31 55.3
723	13 26 27	-31 21.5			
	13 26 27	-31 21.5			
	13 26 27	-31 21.5		13 32 05	-31 52.4

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1930phee.proj.23281

17:12415

Feb.	α	δ	Comp. Plan	L			S	
725	13 26 34	-31 28.1	13 24 10 -31 49.3					
	13 26 34	-31 28.1	13 27 16 -31 48					
	13 26 34	-31 28.1		13	32	12	-31	59.0
726	13 26 32	-31 30.3						
	13 26 32	-31 30.4						
	13 26 32	-31 30.4		13	32	10	-32	1.3
727	13 26 45	-31 21.0						
	13 26 45	-31 21.0						
	13 26 45	-31 21.0		13	32	23	-31	51.9
728	13 27 2	-31 19.2						
	13 27 2	-31 19.2						
	13 27 2	-31 19.2		13	32	40	-31	50.1
730	13 26 56	-31 20.2						
	13 26 56	-31 20.2						
	13 26 56	-31 20.2		13	32	34	-31	51.1
731	13 27 3	-31 24.4						
	13 27 3	-31 24.3						
	13 27 3	-31 24.4		13	32	41	-31	55.3
122	13 27 4	-31 27.1						
	13 27 4	-31 27.1						
	13 27 4	-31 27.1		13	32	46	-31	58.0

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Yrb.	α	δ	Comp. Stars	α	δ
781	13 25 55	-31 39.2	-31 10403		
	13 25 55	-31 39.2	-30 10662		
	13 25 55	-31 39.2	13 24 10 -31 49.3	13 31 32	-32 10.2
			13 27 16 -31 4.8		
807	13 25 45	-32 2.2	-32 9426		
	13 25 45	-32 2.2	-31 10441		
	13 25 45	-32 2.2	13 25 47 -32 19.4	13 31 23	-32 33.3
	Δα = 60″	Δδ = 26.4′	13 26 52 -31 53.0		
	= 14.0 mm.	= 27.4 mm			
1047	13 25 47	-32 1.4			
	13 25 47	-32 1.4			
	13 25 47	-32 1.4		13 31 25	-32 32.5
1048	13 25 51	-31 59.4			
	13 25 51	-31 59.4			
	13 25 51	-31 59.4		13 31 28	-32 10.2
805a	13 26 0	-31 50.8			
	13 26 0	-31 50.8			
	13 26 0	-31 50.8		13 31 38	-32 10.1
1037	13 26 55	-31 54.0			
	13 26 55	-31 54.0			
	13 26 55	-31 54.0		13 32 33	-32 24.9
121	13 27 11	-31 58.2			
	13 27 11	-31 58.2			
	13 27 11	-31 58.2		13 32 49	-32 29.1

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1930phee.proj.23281

R.12415

Feb.	α	δ	Comp. Stars	α	δ
P05	13 25 12	-31 57.3	-32 9426		
	13 25 12	-31 57.2	-31 10403		
	13 25 12	-31 57.2	13 25 47 -32 19.4	13 30 49	-32 28.2
	Δα = 97″	Δδ = 30.1′	13 24 10 -31 49.3		
	= 24.0 mm	= 30.7 mm			
64	13 24 56	-32 2.3			
	13 24 56	-32 2.3			
	13 24 56	-32 2.3		13 30 32	-32 39.5
P04	13 24 18	-31 57.2			
	13 24 18	-31 57.2			
	13 24 18	-31 57.2		13 30 54	-32 28.2
P28	13 22 34	-31 50.1	-31 10332		
	13 22 34	-31 50.1	-31 10403		
	13 22 34	-31 50.1	13 19 54 -31 56.5	13 28 10	-32 21.2
	Δα = 256″	Δδ = 7.2′	13 24 10 -31 49.3		
	= 64.0 mm	= 9.2			
67	13 22 19	-31 50.5			
	13 22 19	-31 50.5			
	13 22 19	-31 50.5		13 27 55	-32 21.6
105-A	13 23 5	-31 50.9			
	13 23 5	-31 50.9			
	13 23 5	-31 50.9		13 28 41	-32 22.0

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Plate	α	δ	Comp. Stars	α	δ
410	13 22 59	-31 43.9	-31 10403		
	13 22 53	-31 43.9	-31 10377		
	13 22 53	-31 43.9	13 24 10 -31 49.3	13 28 29	-32 15.0
	Δα: .92"	Δδ: 24.7'	13 22 32 -31 24.6		
	= 20.0mm	= 24.2mm			
409-b	13 23 41	-31 40.8			
	13 23 41	-31 40.7			
	13 23 41	-31 40.8		13 29 17	-32 11.8
123	13 23 16	-31 38.9			
	13 23 16	-31 38.9			
	13 23 16	-31 38.9		13 28 52	-32 10.0
427	13 23 14	-31 36.8			
	13 23 14	-31 36.8			
	13 23 14	-31 36.8		13 28 50	-32 7.8
426	13 23 33	-31 34.1			
	13 23 33	-31 34.1			
	13 23 33	-31 34.1		13 29 9	-32 5.1
1076	13 23 52	-31 31.8			
	13 23 52	-31 31.8			
	13 23 52	-31 31.8		13 29 28	-32 2.8
420	13 23 43	-31 31.2			
	13 23 43	-31 31.2			
	13 23 43	-31 31.2		13 29 19	-32 2.2

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7.12413

Heb.	α	δ	Comp. Stars	α	δ
P24	13 24 0	-31 30.0	13 24 10 -31 49.2		
	13 24 0	-31 30.0	13 22 28 -31 24.6		
	13 24 0	-31 30.0		13 29 36	-32 1.0
P29	13 23 24	-31 30.7			
	13 23 24	-31 30.7			
	13 23 24	-31 30.7		13 29 00	-32 1.7
132	13 23 37	-31 27.5			
	13 23 37	-31 27.5			
	13 23 37	-31 27.5		13 29 13	-31 58.5
3P	13 22 47	-31 20.5	-31 10377		
	13 22 47	-31 20.5	-31 10407		
	13 22 47	-31 20.5	13 22 3P -31 24.6	13 28 23	-31 51.6
	Δα: 98"	Δδ: 6.1'	13 24 16 -31 18.5		
	= 2.04mm	= 7.0mm			
P32	13 22 58	-31 22.2			
	13 22 58	-31 22.2			
	13 22 58	-31 22.2		13 28 34	-31 53.2
P30	13 23 13	-31 23.9			
	13 23 16	-31 23.9			
	13 23 16	-31 23.9		13 28 52	-31 54.9
P33	13 23 4	-31 20.5			
	13 23 4	-31 20.5			
	13 23 4	-31 20.5		13 28 40	-31 51.5

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Neb.	α	δ	Comp. Stars	α	δ
P34	13 23 20	-31 20.7	-31 10377		
	13 23 20	-31 20.7	-31 10407		
	13 23 20	-31 20.7	13 22 38 -31 24.6	13 28 56	-31 51.7
			13 24 16 -31 18.5		
P31	13 23 29	-31 22.0			
	13 23 29	-31 22.0			
	13 23 29	-31 22.0		13 29 05	-31 53.0
P23	13 23 56	-31 22.2			
	13 23 56	-31 22.2			
	13 23 56	-31 22.2		13 29 32	-31 53.2
P27	13 23 53	-31 21.5			
	13 23 53	-31 21.5			
	13 23 53	-31 21.5		13 29 29	-31 52.5
P38	13 23 52	-31 18.5			
	13 23 52	-31 18.5			
	13 23 52	-31 18.5		13 29 28	-31 49.5
930	13 21 49	-31 45.4	-31 10333		
	13 21 49	-31 45.4	-31 10377		
	13 21 49	-31 45.4	13 19 54 -31 56.5	13 27 24	-32 16.6
	Δα = 164″	Δδ = 31.9′	13 22 38 -31 24.6		
	= 34.4mm.	= 33.3mm.			
125	13 21 19	-31 40.0			
	13 21 19	-31 40.0			
	13 21 19	-31 40.0		13 26 54	-32 11.2

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Neb.	α	δ	Comp. Stars	α	δ
99	13 20 26	-31 36.4	13 19 54 -31 56.5		
	13 20 26	-31 36.4	13 22 3f -31 24.6		
	13 20 26	-31 36.4		13 26 01	-32 7.7
937	13 20 11	-31 28.5			
	13 20 11	-31 28.5			
	13 20 11	-31 28.5		13 25 46	-31 59.8
as	13 21 10	-31 28.5			
	13 21 10	-31 28.5			
	13 21 10	-31 28.5		13 26 45	-31 59.8
928	13 21 12	-31 25.1			
	13 21 12	-31 25.1			
	13 21 12	-31 25.1		13 26 53	-31 56.4
927	13 21 34	-31 24.6			
	13 21 34	-31 24.6			
	13 21 34	-31 24.6		13 27 09	-31 55.8
124	13 22 31	-31 37.0			
	13 22 31	-31 37.0			
	13 22 31	-31 37.0		13 28 07	-32 8.1
1055	13 22 22	-31 41.5			
	13 22 22	-31 41.6			
	13 22 22	-31 41.6		13 27 58	-32 12.7

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Neb.	α	δ	Comp. Stars									
									α		δ	
131a	13 22 22	-31 15.9	-31 10377									
	13 22 23	-31 15.9	-30 10568									
	13 22 23	-31 25.9	13 22 38	-31 24.6					13 27 59		-31 47.0	
	Δα = 110″	Δδ = 24.2′	13 20 43	-31 0.4								
	= 29.2mm	= 24.9mm										
131b	13 22 23	-31 15.2										
	13 22 23	-31 15.2										
	13 22 23	-31 15.2							13 27 59		-31 46.3	
131c	13 22 22	-31 14.2										
	13 22 22	-31 14.2										
	13 22 22	-31 14.2							13 27 58		-31 45.3	
131d	13 22 24	-31 14.2										
	13 22 24	-31 14.2										
	13 22 24	-31 14.2							13 28 00		-31 45.3	
131e	13 22 7	-31 16.7										
	13 22 7	-31 16.7										
	13 22 7	-31 16.7							13 27 43		-31 47.9	
1059	13 21 38	-31 23.3										
	13 21 38	-31 23.4										
	13 21 38	-31 23.4							13 27 13		-31 54.6	
925	13 21 44	-31 18.7										
	13 21 44	-31 18.7										
	13 21 44	-31 18.7							13 27 19		-31 49.9	

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4.12415

Neb.	α	δ	Comp. Stars	α	δ
903	13 21 36	-31 13.0	13 22 3+ -31 24.6		
	13 21 36	-31 13.0	13 20 43 -31 0.4		
	13 21 36	-31 13.0		13 27 11	-31 44.2
12a	13 21 26	-31 21.4			
	13 21 26	-31 21.4			
	13 21 26	-31 21.4		13 27 01	-31 52.6
12b	13 21 29	-31 21.7			
	13 21 29	-31 21.7			
	13 21 29	-31 21.7		13 27 04	-31 52.9
926	13 21 16	-31 17.4			
	13 21 16	-31 17.4			
	13 21 16	-31 17.4		13 26 51	-31 48.6
156a	13 21 2	-31 21.7			
	13 21 2	-31 21.7			
	13 21 2	-31 21.7		13 26 37	-31 53.0
156b	13 21 1	-31 21.0			
	13 21 1	-31 21.0			
	13 21 1	-31 21.0		13 26 36	-31 52.3
156c	13 21 2	-31 20.6			
	13 21 2	-31 20.6			
	13 21 2	-31 20.6		13 26 37	-31 51.9

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Neb.	α	δ	Comp. Stars	α	δ
938	13 20 43	-31 18.5	-31 10377		
	13 20 43	-31 18.5	-30 10568		
	13 20 43	-31 18.5	13 22 38 -31 246	13 26 18	-31 49.8
			13 20 43 -31 0.4		
4	13 20 58	-31 12.9			
	13 20 58	-31 12.9			
	13 20 58	-31 12.9		13 26 33	-31 44.2
1077	13 20 56	-31 12.1			
	13 20 56	-31 12.0			
	13 20 56	-31 12.0		13 26 31	-31 43.3
ab	13 20 58	-31 10.8			
	13 20 58	-31 10.8			
	13 20 58	-31 10.8		13 26 33	-31 42.1
939	13 21 11	-31 4.0			
	13 21 12	-31 4.1			
	13 21 12	-31 4.0		13 26 47	-31 35.3
940	13 21 10	-31 3.7			
	13 21 10	-31 3.7			
	13 21 10	-31 3.7		13 26 45	-31 35.0
m	13 21 33	-31 7.7			
	13 21 33	-31 7.7			
	13 21 33	-31 7.7		13 27 08	-31 38.9

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N. 12415

Neb.	α	δ	Comp. Stars	α	δ
901	13 21 48	-31 10.0	13 22 38 -31 24.6		
	13 21 48	-31 10.0	13 20 43 -31 0.4		
	13 21 48	-31 10.0		13 27 23	-31 41.2
35a	13 22 1	-31 2.0			
	13 22 1	-31 2.0			
	13 22 1	-31 2.0		13 27 36	-31 33.2
35b	13 21 57	-31 2.2			
	13 21 57	-31 2.2			
	13 21 57	-31 2.2		13 27 32	-31 33.4
35c	13 22 2	-31 1.8			
	13 22 2	-31 1.8			
	13 22 2	-31 1.8		13 27 37	-31 33.0
902	13 22 16	-31 1.6			
	13 22 16	-31 1.6			
	13 22 16	-31 1.6		13 27 52	-31 32.7
40a	13 19 23	-31 40.1	-31 10307		
	13 19 23	-31 40.2	-30 10568		
	13 19 23	-31 40.2	13 18 9 -31 39.3	13 24 58	-32 11.5
	Δα = 10.4″ = 32.2 mm	Δδ = 30.9′ = 40.9 mm	13 20 43 -31 0.4		
40b	13 19 26	-31 40.1			
	13 19 26	-31 40.2			
	13 19 26	-31 40.2		13 25 01	-32 11.5

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Neb.	α	δ	Comp. Stars	α	δ
93	13 19 2	-31 35.0	-31 10307		
	13 19 2	-31 35.0	-30 10568		
	13 19 2	-31 30.0	13 18 9 -31 39.2	13 24 36	-32 6.3
			13 20 43 -31 0.4		
A2	13 18 52	-31 31.7			
	13 18 52	-31 31.7			
	13 18 52	-31 31.7		13 24 26	-32 3.1
A a	13 19 26	-31 15.2			
	13 19 26	-31 15.2			
	13 19 26	-31 10.2		13 25 01	-31 46.5
A b	13 19 23	-31 15.0			
	13 19 23	-31 15.0			
	13 19 23	-31 10.0		13 24 58	-31 46.3
A c	13 19 21	-31 13.7			
	13 19 21	-31 13.6			
	13 19 21	-31 13.6		13 24 56	-31 44.9
A d	13 19 27	-31 13.6			
	13 19 27	-31 13.6			
	13 19 27	-31 13.6		13 25 02	-31 44.9
1061	13 19 24	-31 9.5			
	13 19 24	-31 9.5			
	13 19 24	-31 9.5		13 24 59	-31 40.8

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1930phae.proj..23201

Neb.	α	δ	Comp. Stars	α		δ	
P6a	13 18 44	-31 11.8	13 18 9 -31 39.3				
	13 18 44	-31 11.8	13 20 43 -31 0.4				
	13 18 44	-31 11.8		13	24	18	-31 43.2
P6b	13 18 47	-31 10.8					
	13 18 47	-31 10.8					
	13 18 47	-31 10.8		13	24	21	-31 42.0
m	13 18 28	-31 9.8					
	13 18 28	-31 9.8					
	13 18 28	-31 9.8		13	24	02	-31 41.0
1062	13 18 18	-31 8.6					
	13 18 18	-31 8.6					
	13 18 18	-31 8.6		13	23	52	-31 39.8
P7	13 18 39	-31 8.2					
	13 18 39	-31 8.2					
	13 18 39	-31 8.2		13	24	13	-31 39.6
944	13 19 11	-31 3.2					
	13 19 11	-31 3.2					
	13 19 11	-31 3.2		13	24	46	-31 34.6
941	13 20 23	-31 5.5					
	13 20 23	-31 5.5					
	13 20 23	-31 5.5		13	25	58	-31 36.8

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1930phae.proj.2328M

170 H.12415

Neb.	α	δ	Comp. Stars	α	δ
12Pb	13 20 20	-31 11.7	13 19 9 -31 39.2		
	13 20 20	-31 11.7	13 20 43 -31 0.4		
	13 20 20	-31 11.7		13 25 55	-31 43.0
12Pa	13 20 22	-31 11.8			
	13 20 22	-31 11.8			
	13 20 22	-31 11.8		13 25 57	-31 43.1
1060	13 19 54	-31 22.6			
	13 19 54	-31 22.8			
	13 19 54	-31 22.6		13 24 32	-31 54.0
30d	13 22 21	-30 59.2	-30 100"91		
	13 22 21	-30 59.2	-30 100"49		
	13 22 21	-30 59.2	13 22 37 -31 2.6	13 27 55	-31 30.5
	Δα = 210"	Δδ = 30.1'	13 19 7 -30 32.5		
	= 45.9 mm	= 29.0 mm			
P99	13 22 5	-30 55.5			
	13 22 5	-30 55.5			
	13 22 5	-30 55.5		13 27 39	-31 26.8
P98	13 22 0	-30 54.5			
	13 22 0	-30 54.5			
	13 22 0	-30 54.5		13 27 34	-31 25.8
P97	13 22 11	-30 54.2			
	13 22 11	-30 54.2			
	13 22 11	-30 54.2		13 27 45	-31 25.5

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1930phae.proj.232m

17.12H15

S71

Neb.	α	δ	Comp. Stars	α	δ
896	13 22 10	-30 53.4	13 22 37 -31 2.6		
	13 22 10	-30 53.4	13 19 7 -30 32.5		
	13 22 10	-30 53.4		13 27 44	-31 24.7
895	13 22 0	-30 51.7			
	13 22 0	-30 51.7			
	13 22 0	-30 51.7		13 27 34	-31 23.0
900	13 21 38	-30 53.3			
	13 21 38	-30 53.3			
	13 21 38	-30 53.3		13 27 12	-31 24.7
37	13 21 54	-30 52.5			
	13 21 54	-30 52.5			
	13 21 54	-30 52.5		13 27 28	-31 23.8
34	13 21 15	-30 53.3			
	13 21 15	-30 53.3			
	13 21 15	-30 53.3		13 26 48	-31 24.7
942	13 20 51	-30 57.6			
	13 20 51	-30 57.6			
	13 20 51	-30 57.6		13 26 24	-31 29.1
142	13 21 2	-30 58.4			
	13 21 2	-30 58.4			
	13 21 2	-30 58.4		13 26 41	-31 29.8

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1930phae.proj.2328M

72 7.12415

Neb.	α			δ		Comp. Stars			α		δ	
91a	13	20	25	-30	5A.5		-30	10591				
	13	20	25	-30	5A.5		-30	10579				
	13	20	25	-30	5A.5	13 22 37	-31	2.6	13	25	58	-31 30.0
						13 19 7	-30	32.5				
91b	13	20	23	-30	57.1							
	13	20	23	-30	57.1							
	13	20	23	-30	57.1				13	25	56	-31 28.6
91c	13	20	14	-30	55.3							
	13	20	14	-30	55.3							
	13	20	14	-30	55.3				13	25	47	-31 26.8
91d	13	20	20	-30	55.9							
	13	20	20	-30	55.9							
	13	20	20	-30	55.9				13	25	53	-31 27.4
91e	13	20	20	-30	55.9							
	13	20	20	-30	55.9							
	13	20	20	-30	55.9				13	25	53	-31 27.4
94f	13	20	45	-30	53.3							
	13	20	45	-30	53.2							
	13	20	45	-30	53.2				13	26	18	-31 24.7
94c	13	20	6	-30	50.2							
	13	20	6	-30	50.1							
	13	20	6	-30	50.2				13	25	39	-31 21.7

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1930phae.proj..232M

A.1240

Neb.	α			δ		Comp. Stars	α			δ	
943	13	20	0	-31	0.3	13 22 39 -31 2.6					
	13	20	0	-31	0.5	13 19 7 -30 32.0					
	13	20	0	-31	0.3		13	25	35	-31	31.8
89 A	13	19	24	-30	57.2						
	13	19	24	-30	57.2						
	13	19	24	-30	57.2		13	24	56	-31	28.8
90	13	19	14	-30	50.1						
	13	19	14	-30	50.1						
	13	19	14	-30	50.1		13	24	46	-31	21.7
92	13	20	6	-30	35.4						
	13	20	6	-30	35.4						
	13	20	6	-30	35.4		13	25	39	-31	6.9
958	13	20	38	-30	32.2						
	13	20	38	-30	32.2						
	13	20	38	-30	32.2		13	26	11	-31	3.7
m	13	21	4	-30	34.7						
	13	21	4	-30	34.7						
	13	21	4	-30	34.7		13	26	37	-31	6.1
949	13	21	3	-30	41.4						
	13	21	3	-30	41.4						
	13	21	3	-30	41.4		13	26	36	-31	12.8

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1930phae.proj.2328M

Neb.	α	δ	Comp. Stars	α	δ
144	13 21 27	-30 42.2	-30 10591		
	13 21 27	-30 42.2	-30 10549		
	13 21 27	-30 42.2	13 22 37 -31 2.6	13 27 00	-31 13.6
			13 19 7 -30 32.5		
948	13 21 14	-30 42.8			
	13 21 14	-30 42.8			
	13 21 14	-30 42.8		13 26 47	-31 14.2
846	13 21 48	-30 41.3			
	13 21 48	-30 41.3			
	13 21 48	-30 41.3		13 27 21	-31 12.7
aw	13 21 33	-30 35.0			
	13 21 33	-30 35.0			
	13 21 33	-30 35.0		13 27 06	-31 6.4
1056	13 22 5	-30 37.0			
	13 22 5	-30 37.0			
	13 22 5	-30 37.0		13 27 39	-31 8.3
844	13 22 19	-30 36.2			
	13 22 19	-30 36.1			
	13 22 19	-30 36.2		13 27 53	-31 7.5
36	13 22 11	-30 42.8			
	13 22 11	-30 42.8			
	13 22 11	-30 42.8		13 27 45	-31 14.1

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1930phae.proj.23200

7.1245

Neb.	α	δ	Comp Stars	α	δ
1072	13 22 14	-30 43.4	13 22 37 -31 2.6		
	13 22 14	-30 43.4	13 19 7 -30 32.5		
	13 22 14	-30 43.4		13 27 48	-31 14.7
145	13 21 58	-30 44.5			
	13 21 58	-30 44.4			
	13 21 58	-30 44.4		13 27 32	-31 15.7
415	13 19 34	-30 29.4	-30 10 5.49		
	13 19 35	-30 29.3	-30 10 5.90		
	13 19 35	-30 29.4	13 19 7 -30 32.5	13 24 07	-31 0.9
	Δα = 207"	Δδ = 20.9'	13 22 34 -30 11.6		
	= 44.6 mm.	= 21.3 mm.			
963	13 19 55	-30 27.9			
	13 19 55	-30 27.9			
	13 19 55	-30 27.9		13 25 27	-30 59.4
ad	13 20 43	-30 26.1			
	13 20 43	-30 26.1			
	13 20 43	-30 26.1		13 26 15	-30 57.6
951	13 20 59	-30 28.1			
	13 20 59	-30 28.1			
	13 20 59	-30 28.1		13 26 32	-30 59.5
952	13 21 5	-30 24.7			
	13 21 5	-30 24.6			
	13 21 0	-30 24.6		13 26 38	-30 56.0

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1930phae.proj.2326M

Neb	α	δ	Comp. Stars	α	δ
33	13 20 52	-30 13 3	-30 10 549		
	13 20 52	-30 13 3	-30 10 590		
	13 20 52	-30 13 3	13 19 7 -30 02.5	13 26 25	-30 44.8
			13 22 34 -30 11.6		
154	13 22 27	-30 9.2			
	13 22 27	-30 9.3			
	13 22 27	-30 9.3		13 28 01	-30 40.6
145	13 22 24	-30 25.5			
	13 22 24	-30 25.6			
	13 22 24	-30 25.6		13 27 58	-30 56.7
102	13 22 22	-30 29.1			
	13 22 22	-30 29.1			
	13 22 22	-30 29.1		13 27 56	-31 0.4
945	13 18 21	-30 46.4	-30 10 541		
	13 18 21	-30 46.5	-30 10 549		
	13 18 21	-30 46.4	13 18 12 -31 2.9	13 23 53	-31 18.0
	Δα = 54"	Δδ = 30.4'	13 19 7 -30 02.5		
	= 11.0 mm	= 30.5 mm			
ac	13 18 30	-30 39.1			
	13 18 30	-30 39.2			
	13 18 30	-30 39.2		13 24 02	-31 10.8
j	13 18 55	-30 27.1			
	13 18 55	-30 27.2			
	13 18 55	-30 27.2		13 24 27	-30 58.6

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1930phae.proj..232M

77

#.12415

Neb.	α	δ	Comp. Stars	α	δ
A5	13 17 43	-30 56.8	-30 10541		
	13 17 43	-30 56.8	-30 10535		
.8	13 17 43	-30 56.8	13 18 13 -31 2.9	13 23 15	-31 28.5
	Δα = 37″	Δδ = 32.4′	13 17 36 -30 30.5		
	= 9.0mm	= 32.2mm			
1064	13 17 36	-30 47.9			
.6	13 17 36	-30 47.9			
	13 17 36	-30 47.9		13 23 08	-31 19.6
A3	13 17 54	-31 19.6	-31 10274		
.7	13 17 54	-31 19.6	-30 10541		
	13 17 54	-31 19.6	13 15 45 -31 24.3	13 23 28	-31 51.0
	Δα = 148″	Δδ = 25.4′	13 18 13 -31 2.9		
	= 37.0mm	= 26.6mm			
.4					
1063	13 17 42	-31 15.8			
	13 17 42	-31 15.8			
	13 17 42	-31 15.8		13 23 16	-31 47.2
.0					
10	13 16 31	-31 15.8			
	13 16 31	-31 15.8			
	13 16 31	-31 15.8		13 22 05	-31 47.2
9	13 16 17	-31 15.3			
.8	13 16 17	-31 15.3			
	13 16 17	-31 15.3		13 21 51	-31 46.7
.6					

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1930phae.proj.2328M

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Neb.	α			δ		Comp. Stars				α			δ	
f	13	16	24	-31	10.1			-31 10274						
	13	16	24	-31	10.1			-30 10541						
	13	16	24	-31	10.1	13	15	45	-31 28.9	13	21	58	-31	41.5
						13	18	13	-31 2.9					
a	13	17	6	-31	10.1									
	13	17	6	-31	10.1									
	13	17	6	-31	10.1					13	22	40	-31	41.5
998	13	16	47	-31	3.5									
	13	16	47	-31	3.5									
	13	16	47	-31	3.5					13	22	21	-31	34.9

Maley - S. F. M.

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1930phae.proj.232M

1.5

1.5

4.9

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1930phae.proj.2328N

(continued from Bk. 4 p. 122-130)

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
ac	20 26 41	-50 1.6	-49 11206		
	20 26 41	-50 1.6	-50 11397		
	20 26 41	-50 1.6	20 25 42 -49 6.5	20 33 58	-49 41.8
	Δα = 251"	Δδ = 61.6'	20 29 53 -50 8.1		
	= 38.0mm.	= 64.7mm.			
187	20 27 9	-50 45.8			
	20 27 9	-50 45.8			
	20 27 9	-50 45.8		20 34 26	-50 25.9
185	20 27 30	-47 53.2	-47 9537		
	20 27 30	-47 53.1	-49 11227		
	20 27 30	-47 53.2	20 30 31 -47 38.2	20 34 30	-47 32.9
	Δα = 629	Δδ = 77.2	20 20 2 -48 55.4		
	= 109mm.	= 72.4mm.			
183	20 20 57	-48 24.3			
	20 20 57	-48 24.2			
	20 20 57	-48 24.2		20 28 08	-48 5.0
186	20 22 9	-48 49.8			
	20 22 9	-48 49.8			
	20 22 9	-48 49.8		20 29 20	-48 30.3
184	20 26 26	-47 18.7	-46 9995		
	20 26 27	-47 18.7	-47 9537		
	20 26 26	-47 18.7	20 23 7 -46 31.7	20 33 30	-46 58.6
	Δα = 444"	Δδ = 66.5'	20 30 31 -47 38.2		
	= 78.0mm.	= 74.0mm.			

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1930phae.proj.23280

A.P494

Neb.	α	δ	Comp. Stars	Positions 1900 α			δ	
138	20 26 55	-46 49.1						
	20 26 55	-46 49.1						
	20 26 55	-46 49.1		20	33	55	-46	29.1
139	20 23 50	-46 11.2	-45 9968					
	20 23 51	-46 11.2	-46 9995					
	20 23 50	-46 11.2	20 25 20 -45 41.0	20	30	51	-45	51.5
	Δα = 138″	Δδ = 50.7′	20 23 7 -46 31.7					
	= 29.0mm.	= 47.1mm.						
140	20 23 23	-45 43.6						
	20 23 23	-45 43.6						
	20 23 23	-45 43.6		20	30	21	-45	24.2
141	20 21 46	-45 58.0	-45 9953					
	20 21 46	-45 57.9	-47 9508					
	20 21 46	-45 58.0	20 22 30 -45 42.8	20	28	44	-45	38.6
	Δα = 213″	Δδ = 77.1′	20 19 2 -46 59.9					
	= 99.1mm.	= 76.0						
142	20 20 30	-46 37.3						
	20 20 30	-46 37.3						
	20 20 30	-46 37.3		20	27	32	-46	18.1
143	20 18 52	-46 46.2						
	20 18 52	-46 46.1						
	20 18 52	-46 46.2		20	25	55	-46	27.2

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1930phae.proj.2328N

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AR494

Feb.

	α			δ		Comp. Stars					Positions in 2000 α			δ	
144	20	15	6	-46	55.1			-47 90-08							
	20	15	6	-46	55.1			-46 10371							
	20	15	6	-46	55.1	20	19	2	-46	59.9	20	22	10	-46	36.5
	Δα = 435"			Δδ = 61.3'		20	11	47	-46	1.2					
	= 74.7mm.			= 61.9mm.											
145	20	14	52	-47	2.5										
	20	14	52	-47	2.5										
	20	14	52	-47	2.5						20	22	00	-46	43.7
146	20	14	27	-47	10.2										
	20	14	27	-47	10.2										
	20	14	27	-47	10.2						20	21	35	-46	56.6
147	20	13	48	-47	31.7										
	20	13	48	-47	31.7										
	20	13	48	-47	31.7						20	20	56	-47	13.1
148	20	12	49	-47	41.8										
	20	12	49	-47	41.8										
	20	12	49	-47	41.8						20	19	58	-47	23.4
151	20	17	0	-48	0.4										
	20	17	0	-48	0.4										
	20	17	0	-48	0.4						20	24	12	-47	41.6

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1930phae.proj.23280

H.8494

Feb.	α	δ	Comp. Stars	Positions in 2000 α			δ	
15-2	20 20 22	-47 35'1	-47 9515					
	20 20 22	-47 35'1	-48 10399					
6.5	20 20 22	-47 35.1	20 20 40 -47 35.1	20	27	28	-47	15.5
	Δα = 66"	Δδ = 42.6'	20 19 34 -48 17.7					
	= 9.4mm.	= 4223mm						
149	20 12 46	-48 8.6	-48 10371					
	20 12 47	-48 8.6	-49 11227					
3.7	20 12 46	-48 8.6	20 11 47 -48 1.2	20	20	00	-47	50.4
	Δα = 490"	Δδ = 54.2'	20 20 2 -48 55.4					
	= 81.7mm.	= 955.6mm.						
6.6	15-0	20 13 37	-48 3.9					
	20 13 38	-48 3.9						
	20 13 38	-48 3.9		20	20	52	-47	45.7
3.1	ae	20 14 23	-48 48.3					
	20 14 22	-48 48.3						
	20 14 22	-48 48.3		20	21	36	-48	29.9
23.4	15-7	20 15 37	-49 15.2	-49 11227				
	20 15 37	-49 15.2	-49 11209					
	20 15 37	-49 15.2	20 20 2 -48 55.4	20	22	54	-48	56.6
	Δα = 302"	Δδ = 50.5'	20 15 0 -49 45.9					
41.6	= 50.0mm.	= 50.2mm.						
	15-8	20 15 25	-49 18.2					
	20 15 25	-49 18.3						
	20 15 25	-49 18.2		20	22	42	-48	59.6

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1930phae.proj.2328M

160 A.2494

Neb.	α	δ	Comp. Stars	Positions in 2000 α	δ
ad	20 17 7	-49 53.5	20 20 2 -49 50.4		
	20 17 7	-49 53.5	20 15 0 -49 40.9		
	20 17 7	-49 53.5		20 24 24	-49 34.7
159	20 13 52	-49 35.5	-49 11209		
	20 13 52	-49 35.4	-49 11192		
	20 13 52	-49 30.4	20 15 0 -49 40.9	20 21 10	-49 17.0
	Δα = 244″	Δδ = 37.5′	20 10 56 -49 8.4		
	= 40.0 mm.	= 8 A./mm.			
161	20 14 31	-50 1.0			
	20 14 31	-50 0.9			
	20 14 31	-50 1.0		20 21 53	-49 42.6
162	20 13 35	-50 5.5			
	20 13 35	-50 5.4			
	20 13 35	-50 5.4		20 20 58	-49 42.2
163	20 11 45	-49 42.1			
	20 11 45	-49 42.0			
	20 11 45	-49 42.0		20 19 03	-49 23.8
164	20 8 52	-49 53.9	-49 11192		
	20 8 52	-49 53.9	-50 11291		
	20 8 52	-49 53.9	20 10 56 -49 8.4	20 16 12	-49 36.3
	Δα = 448″	Δδ = 67.6′	20 3 28 -50 16.0		
	= 71.7 mm.	= 69.7 mm.			

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1930phae.proj.23280

7.8494

Hrb.	α	δ	Comp. Stars	Positions in 2000 α			δ	
165	20 8 51	-49 36.6	20 10 56 -49 8.4					
	20 8 51	-49 36.6	20 3 28 -50 16.0					
4.7	20 8 51	-49 36.6		20	16	11	-49	19.0
166	20 9 4	-49 28.8						
	20 9 3	-49 28.7						
9.0	20 9 4	-49 28.8		20	16	24	-49	11.2
167	20 8 28	-49 30.6						
	20 8 28	-49 30.5						
	20 8 28	-49 30.6		20	15	48	-49	13.0
2.6 a/	20 5 55	-49 41.5						
	20 5 55	-49 41.4						
	20 5 55	-49 41.4		20	13	16	-49	24.0
2.2 183	20 3 47	-49 28.3						
	20 3 48	-49 28.4						
	20 3 48	-49 28.4		20	11	09	-49	11.2
3.8 185	19 53 44	-49 14.8	-48 10305					
	19 53 45	-49 14.8	-50 11291					
	19 53 44	-49 14.8	19 53 30 -48 50.2	20	1	09	-48	58.8
	Δα = 59.8″ = 101.3mm	Δδ = 25.8′ = 42.9mm.	20 3 28 -50 16.0					
0.3 186	19 56 38	-49 04.9						
	19 56 39	-49 04.9						
	19 56 38	-49 4.9		20	4	02	-48	48.7

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1930phae.proj.2328M

162 A.8494

Nab.	α	δ	Comp. Star	Positions in 2000 α	δ
184	19 55 1	-49 27.3	19 53 30 -48 50.2		
	19 55 2	-49 27.4	20 3 28 -50 16.0		
	19 55 2	-49 27.4		20 2 26	-49 11.2
182	19 55 37	-50 13.8			
	19 55 37	-50 13.9			
	19 55 37	-50 13.8		20 3 06	-49 57.6
179	20 1 25	-48 14.1	-47 9405		
	20 1 26	-48 14.2	-48 10336		
	20 1 26	-48 14.2	19 52 30 -47 49.1	20 8 43	-47 57.3
	Δα = 549″	Δδ = 61.3′	20 1 39 -48 50.4		
	= 95.0mm	= 57.6mm			
180	20 1 55	-48 37.8	-47 9440		
	20 1 55	-48 37.8	-48 10357		
	20 1 55	-48 37.8	20 1 18 -47 50.9	20 9 12	-48 22.9
	Δα = 449″	Δδ = 56.8′	20 2 47 -48 47.9		
	= 76.1mm	= 55.7mm			
181	20 2 17	-48 34.5			
	20 2 18	-48 34.6			
	20 2 18	-48 34.6		20 9 35	-48 17.7
172	20 6 10	-47 58.1			
	20 6 10	-47 58.1			
	20 6 10	-47 58.1		20 13 21	-47 40.5

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1930phae.proj.23281

P.6494

Feb.	α	δ	Comp. Stars	Positions in 2000 α	δ
170	20 h 9	-48 22.6			
	20 8 10	-48 22.6			
1.2	20 8 10	-48 22.6		20 15 35	-48 5.0
169	20 8 25	-48 28.7			
	20 8 26	-48 28.7			
7.6	20 8 26	-48 28.7		20 15 41	-48 11.1
168	20 8 24	-49 7.4	-48 10347		
	20 8 24	-49 7.4	-49 11192		
7.3	20 8 24	-49 7.4	20 6 21 -48 0.8	20 15 44	-48 49.8
	Δα = 275"	Δδ = 67.6'	20 10 56 -49 8.4		
	= 46.4mm.	= 67.6mm.			
171	20 11 29	-48 14.2	-48 10371		
	20 11 28	-48 14.2	-48 10357		
2.9	20 11 29	-48 14.2	20 11 47 -48 1.2	20 18 37	-47 56.2
	Δα = 180"	Δδ = 46.5'	20 8 47 -48 47.7		
	= 29.7mm.	= 46.7			
175	20 8 52	-46 55.5	-46 99 39		
	20 8 52	-46 55.5	-47 9465		
37.7	20 8 52	-46 55.5	20 10 1 -46 51.1	20 15 58	-46 37.9
	Δα = 143"	Δδ = 24.8'	20 7 36 -47 15.9		
	= 24.7mm.	= 26.7mm.			
40.5	174 20 8 21	-46 03.7			
	20 8 21	-46 03.6			
	20 8 21	-46 3.6		20 15 27	-45 46.0

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1930phae.proj.2328M

164 A.2494

Feb.	α	δ	Comp. Stars	Positions in 2000 α	δ
173	20 6 41	-47 6.2	-46 9929		
	20 6 42	-47 6.2	-47 9465		
	20 6 42	-47 6.2	20 6 21 -46 29.8	20 13 53	-46 48.6
	Δα = 77″	Δδ = 46.1′	20 7 38 -47 10.9		
	= 13.9mm.	= 47.5mm.			
177	20 11 2	-45 49.4	-45 9916		
	20 11 1	-45 49.4	-46 9937		
	20 11 2	-45 49.4	20 13 52 -45 51.3	20 18 3	-45 31.2
	Δα = 262″	Δδ = 27.5′	20 9 31 -46 19.0		
	= 45.9mm.	= 27.3mm.			
176	20 9 41	-46 4.1			
	20 9 41	-46 4.1			
star of A1472	O.K 20 9 41	-46 4.1			
178	20 10 22	-44 49.5	-44 9976		
	20 10 22	-44 49.4	-45 9901		
	20 10 22	-44 49.4	20 11 56 -44 50.1	20 17 19	-44 31.2
	Δα = 241″	Δδ = 9.7′	20 7 57 -44 59.8		
	= 43.1mm.	= 9.6mm.			

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1930phae.proj.:2281

7.3346 (cont. from Bk. 4, p. 14)

( ) number of nrb as classified in A 14272
( ) " " " " " " 14280
( ) " " " " " " 14269

Neb.	α	δ	Comps. Stars	Positions in 2000 α		δ	
✓206	3 8 0	-48 24.1	-49 389				
	3 8 1	-48 24.2	-48 344				
	3 8 0	-48 24.2	3 6 8 -49 20.5	3	15	18	-48 1.4
	Δα = 48.3"	Δδ = 73.5'	3 14 11 -48 7.0				
	= 76.4mm.	= 78.0mm.					
✓207	3 8 58	-48 6.4					
	3 8 58	-48 6.4					
	3 8 58	-48 6.4		3	16	16	-47 43.6
✓208	3 10 24	-48 11.0					
	3 10 24	-48 11.0					
	3 10 24	-48 11.0		3	17	42	-47 48.4
✓209	3 10 14	-48 15.9					
	3 10 14	-48 15.8					
	3 10 14	-48 15.8		3	17	32	-47 53.2
✓210	3 9 28	-48 51.6					
	3 9 28	-48 51.5					
	3 9 28	-48 51.6		3	16	46	-48 28.9
✓211	3 7 55	-48 58.6					
	3 7 55	-48 58.6					
	3 7 55	-48 58.6		3	16	13	-48 35.8
✓212	3 9 31	-49 10.4					
	3 9 31	-49 10.4					
	3 9 31	-49 10.4		3	17	43	-48 47.6

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1930phae.proj.2328M

166 H3346

Feb.	α	δ	Comp. Stars	Positions in 2010 α	δ
213	3 9 20	-49 10.4	3 6 8 -49 20.5		
	3 9 26	-49 10.4	3 17 11 -48 7.0		
	3 3 26	-49 10.4		3 10 41	-48 46.9
271	3 13 36	-48 9.2			
	3 13 36	-48 9.2			
	3 13 36	-48 9.2		3 10 52	-47 46.9
218a	3 5 40	-50 7.0	-50 407		
	3 5 40	-50 7.0	-49 389		
	3 5 40	-50 7.0	2 59 28 -50 15.5	3 12 50	-49 43.8 44.0
	Δα = 400″	Δδ = 55.0′	3 6 8 -49 20.5		
	= 24.2mm.	= 56.8mm.			
219	3 3 28	-50 12.9			
	3 3 28	-50 12.9			
	3 3 28	-50 12.9		3 10 40	-49 49.5
223	3 9 24	-50 49.1	-51 396		
	3 9 24	-50 49.0	-49 389		
	3 9 24	-50 49.0	3 11 46 -50 56.4	3 16 33	-50 26.2
	Δα = 338″	Δδ = 94.9′	3 6 8 -49 20.5		
	= 59.0mm.	= 93.1mm.			
222	3 8 42	-50 46.2			
	3 8 42	-50 46.1			
	3 8 42	-50 46.2		3 15 51	-50 23.4

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1930phae.proj.22281

A 3346

Neb.	α	δ	Comp. Stars	Positions in 2000 α		δ
210	3 9 57	-49 51.3				
	3 9 57	-49 51.2				
16.9	3 9 57	-49 51.2		3 13 09	-49	20.4
216	3 8 54	-50 4.2				
	3 8 54	-50 4.1				
16.9	3 8 54	-50 4.2		3 12 03	-49	41.4
217	3 8 31	-50 5.2				
13.8	3 8 31	-50 5.1				
14.0	3 8 31	-50 5.2		3 11 40	-49	42.4
214	3 6 30	-49 59.4				
	3 6 30	-49 59.3				
	3 6 30	-49 59.4		3 9 47	-49	36.6
19.5						
232	3 4 20	-51 41.3	-51 377			
	3 4 29	-51 41.3	-50 407			
2 stars of A 14272	3 4 20	-51 41.3	3 6 49 -51 42.0			
26.2			2 59 24 -50 10.5			
	Δα = 441″	Δδ = 86.5′				
	= 42.8 sec.	= 80 sec.				
233	2 59 26	-51 36.4				
STAR	2 59 26	-51 36.5				
Position already found on A 14179	2 59 26	-51 36.4				
23.4						

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1930phae.proj.2328M

168 73346

Feb.	α	δ	Comp. Stars	Positions in 2000 α	δ
224	3 5 27	-50 54.9	3 6 49 -51 42.0		
	3 5 27	-50 54.9	2 59 28 -50 15.5		
	3 5 27	-50 54.9		3 12 37	-50 31.9
225	2 58 15	-50 45.6			
	2 58 16	-50 45.7			
	2 58 16	-50 45.6		3 5 29	-50 21.9
226	2 59 26	-50 52.9			
	2 59 26	-50 52.9			
	2 59 26	-50 52.9		3 4 39	-50 29.3
221	3 3 4	-50 34.0			
	3 3 4	-50 33.9			
	3 3 4	-50 34.0		3 10 16	-50 10.6
231	3 9 2	-51 28.1	-51 377		
(47)	3 9 2	-51 28.2	-51 386		
	3 9 2	-51 28.2	3 6 49 -51 42.0	3 16 6	-51 5.7
	Δα = 297″	Δδ = 46.6′	3 11 46 -50 55.4		
	= 44.7mm	= 49.6mm			
227	3 7 16	-51 15.8			
	3 7 16	-51 15.9			
2 stars: of A 14272	~~3 7 16 -51 15.8~~				
228	3 8 50	-51 4.8			
(45)	3 8 50	-51 4.9			
	3 8 50	-51 4.8		3 15 54	-50 42.3

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1930phae.proj.22280

A.2346

Neb.	α	δ	Comps. Stars	Positions in 2000 α	δ
229	3 11 1	-5 1 7.4	3 6 49 -5 1 42.0		
(35)	3 11 1	-5 1 7.4	3 11 46 -5 0 55.4		
	3 11 1	-5 1 7.4		3 18 4	-50 45.1
~~220~~	3 11 5	-5 1 7.6			
	3 11 5	-5 1 7.6			
	~~3 11 5~~	~~-5 1 7.6~~			
250 a+b	3 10 2	-5 2 14.1	-5 2 38.8		
double	3 10 1	-5 2 14.0	-5 1 38.6		
in contact	3 10 2	-5 2 14.0	3 17 16 -5 2 23.4	3 22 00	-51 51.8
	Δα = 330″	Δδ = 44.0′	3 11 46 -5 0 55.4		
	= 54.0 mm.	= 87.2 mm.			
251	3 10 2	-5 2 13.9			
	3 10 2	-5 2 13.9			
	3 10 2	-5 2 13.9		3 22 00	-51 51.7
252	3 12 42	-5 2 10.6			
(72)	3 12 42	-5 2 10.6			
	3 12 42	-5 2 10.6		3 19 41	-51 53.3
253	3 11 49	-5 2 4.1			
(78)	3 11 49	-5 2 4.0			
	3 11 49	-5 2 4.0		3 18 08	-51 41.5
254	3 14 27	-5 2 8.6			
	3 14 27	-5 2 8.6			
	3 14 27	-5 2 8.6		3 21 25	-51 46.4

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1930phae.proj.2328M

Feb.	α	δ	Comp. Stars	Positions in 2000 α	δ
✓255	3 14 50	-52 2.2	3 17 16 -52 23.4		
	3 14 50	-52 2.1	3 11 46 -50 53.4		
	3 14 50	-52 2.2		3 21 48	-51 40.0
✓256	3 16 39	-52 06.3			
	3 16 38	-52 06.3			
	3 16 38	-52 6.3		3 23 34	-51 44.5
✓257	3 14 49	-51 52.4			
	3 14 49	-51 52.4			
	3 14 49	-51 52.4		3 21 51	-51 30.3
~~258~~	3 12 57	-51 43.0			
	3 12 57	-51 43.0			
	~~3 12 57 -51 43.0~~				
✓259	3 13 30	-51 39.8			
	3 13 30	-51 39.8			
	3 13 30	-51 39.8		3 20 32	-51 17.7
✓260	3 16 2	-51 36.0			
	3 16 2	-51 36.0			
	3 16 2	-51 36.0		3 23 2	-51 14.2
✓261	3 12 36	-51 20.0			
Lacaille 14272	3 12 35	-51 20.0			
	3 12 36	-51 20.0		3 19 36	-52 57.9

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1930phae.proj..23261

A 3346

Neb.	α	δ	Comp. Stars	Positions in 2000 α		δ	
262	3 12 30	-5 1 17.6	3 17 16 -5 2 23.4				
	3 12 30	-5 1 17.6	3 11 46 -5 0 53.4				
star of A14272	~~3 12 30~~	~~-5 1 17.6~~					
237	3 9 46	-5 2 28.3	-5 3 5 40				
	3 9 46	-5 2 28.3	-5 2 38 4				
	3 9 46	-5 2 28.3	3 10 46 -5 3 2.5	3	12 X6	46	-52 5.7
	Δα = 390" = 58.3mm.	Δδ = 39.1' = 41.2mm.	3 17 16 -5 2 23.4				
239	3 12 47	-5 3 0.6					
	3 12 46	-5 3 0.6					
	3 12 46	-5 3 0.6		3	15 19	40	-52 38.4
240	3 13 21	-5 2 31.9					
	3 13 20	-5 2 31.9					
star of A14272	~~3 13 20~~	~~-5 2 31.9~~					
241	3 14 37	-5 2 35.3					
(71)	3 14 36	-5 2 35.3					
	3 14 36	-5 2 35.3		3	17 21	34	-52 13.1
242	3 15 49	-5 2 48.4					
(16)	3 15 48	-5 2 48.4					
	3 15 48	-5 2 48.4		3	18 22	45	-52 26.4

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1930phae.proj.2328N

172 9.3946

Nebs.	α	δ	Comp. Stars	Positions in 2000 α	δ
238	3 2 38 -0°2	11.6	-0°3 0°40		
	3 2 37 -0°2	11.6	-0°3 0°18		
	~~3 2 38 -0°2 11.6~~		3 10 46 -0°3 2.3		
	Δα = 9'38" Δδ = 9°6.1'		3 1 48 -0°2 56.9		
	= 81.3mm. = 8.0mm.				
J 235	3 0° 41 -0°2	10°.9	-0°2 366		
(8)	3 0° 41 -0°2	10°.9	-0°1 30°7	8 ✓	✓
	3 0° 41 -0°2	10°.9	3 0° 54 -0°2 23.8	3 12 41 -51	53.1
	Δα = 9'23" Δδ = 9°5.8'		3 0 31 -0°1 48.0		
	= 80.9mm. = 82.6mm.				
234	3 0° 58 -0°1	0°7.1			
	3 0° 58 -0°1	0°7.1			
Position already found on A4179	~~3 0° 58 -0°1 0°7.1~~				
(50) 249 J	3 18 20 -0°2	25°.6	-0°3 0°28		
	3 18 20 -0°2	25°.7	-0°2 0°28	21 ✓	✓
	3 18 20 -0°2	25°.6	3 25° 20 -0°3 27.4	3 ~~25~~ 15 -52	41
	Δα = 4'4" Δδ = 64.0'		3 17 16 -0°2 28.4		
	= 75.3mm. = 64.4mm.				
245	3 19 43 -0°2	44.4			
(141)	3 19 43 -0°2	44.5		22 ✓	✓
	3 19 43 -0°2	44.4		3 ~~26~~ 38 -52	29.8
J 243	3 19 38 -0°2	0°4.2			
(54)	3 19 37 -0°2	0°4.2		32 ✓	✓ 32.7
	3 19 38 -0°2	0°4.2		3 ~~26~~ 33 -52	~~22.7~~
	227				
	31.5 : impossible				

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1930phae.proj.2328

7.3346

Feb.		α			δ		Comp. Stars				Positions in 2000 α		δ	
✓ 244	3	20	36	-52	50.2	3	25	20	-53	27.4				
(56)	3	20	36	-52	50.2	3	17	16	-52	23.4				
	3	20	36	-52	50.2						3	23 29	30 ✓	-52 ✓ 28.9
246	3	20	30	-52	36.9									
(137)	3	20	30	-52	36.9									
	3	20	30	-52	36.9						3	23 27	24 ✓	-52 ✓ 15.6
✓ 247	3	21	29	-52	27.6									
(61)	3	21	29	-52	27.7									
	3	21	29	-52	27.6						3	24 28	23 ✓	-52 ✓ 6.3
✓ 370	3	22	22	-52	37.7									
(59)	3	22	22	-52	37.7									
	3	22	22	-52	37.7						3	25 29	15 ✓	-52 ✓ 16.5
~~271~~	3	21	42	-52	47.4									
	3	21	42	-52	47.4									
	~~3~~	~~21~~	~~42~~	~~-52~~	~~47.4~~									
(55) 372	3	21	54	-52	54.4									
class 1H269	3	21	54	-52	54.4									
	3	21	54	-52	54.4						3	24 28	47 ✓	-52 ✓ 33.2
(54) 373	3	23	26	-52	49.2									
class 1H269	3	23	26	-52	49.2									
	3	23	26	-52	49.2						3	26 30	19 ✓	-52 ✓ 28.0

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1930phae.proj.2328M

174 4.2946

Neb.	α			δ		Comp. Stars				Positions in 2000 α		δ	
(172) 374	3	23	22	-52	55.4	3	20	-52	27.4				
class 1 4269	3	23	22	-52	55.4	3	17	16	-52	23.4			
	3	23	22	-52	55.4					3	30	15	-52	32
375	3	23	32	-53	9.9								
class 1 4269	3	23	32	-53	9.9								
	3	23	32	-53	9.9					3	30	18	-52	48.7
376	3	22	33	-53	4.2								
class 1 4269	3	22	33	-53	4.3								
	3	22	33	-53	4.2					3	29	20	-52	42.9
~~377~~	3	22	8	-53	16.0								
	3	22	8	-53	16.0								
	~~3~~	~~22~~	~~8~~	~~-53~~	~~16.0~~								
✓ 286	3	19	40	-51	40.4			-52	3 48				
	3	19	41	-51	40.4			-51	40 8				
	3	19	40	-51	40.4	3	17	16	-52	23.4			
	Δα = 3'11"			Δδ = 58.6mm.		3	22	27	-51	24.8			
	= 47.6mm.			= 59.6mm.									
✓ 287	3	19	6	-51	59.6								
	3	19	6	-51	59.6								
	3	19	6	-51	59.6					3	26	06	-51	38.2
✓ 288	3	19	39	-52	13.4								
	3	19	39	-52	13.3								
	3	19	39	-52	13.4					3	26	34	-51	51.9

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1930phae.proj.23281

A.3346

Neb.	α			δ			Comp. Stars						Positions 1930 α			Positions 1930 δ	
248	3	20	12	-0°2	21.2		3	17	16	-0°2	23.4						
class 14269	3	20	13	-0°2	21.2		3	22	27	-0°1	24.0						
	3	20	12	-0°2	21.2								3	23 ~~27~~	07	-51	59.7
249	3	21	14	-0°2	12.7												
	3	21	14	-0°2	12.7												
	3	21	14	-0°2	12.7								3	24 ~~28~~	08	-51	51.4
290	3	21	37	-0°2	0°.8												
	3	21	37	-0°2	0°.8												
	3	21	37	-0°2	0°.8								3	24 ~~28~~	31	-51	44.5
291	3	21	32	-0°1	0°3.7												
	3	21	32	-0°1	0°3.7												
	3	21	32	-0°1	0°3.7								3	24 ~~28~~	29	-51	2 ~~39~~
292	3	21	08	-0°1	27.0°												
	3	21	08	-0°1	27.0°												
	3	21	08	-0°1	27.0°								3	24 ~~28~~	54	-51	6.~~4~~
293	3	22	27	-0°1	28.9					-0°1	40.8						
	3	22	27	-0°1	29.2					-0°1	39.3						
	3	22	27	-0°1	23.2		3	22	27	-0°1	24.0		3	25 ~~29~~	14	-51	2.4
	Δα = 360″			Δδ = 8 0.8′			3	16	27	-0°0	04.0°						
	= 0°7.0 mm.			= 30.2 mm.													
291	3	21	16	-0°1	22.4												
	3	21	16	-0°1	22.3												
	3	21	16	-0°1	22.4								3	24 ~~28~~	13	-51	~~8~~.4

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1930phae.proj.2328M

176 7.3346

	α	δ	Comp. Stars	Positions in 2000 α	δ
11 Feb. 280	3 19 3	−5 1 18.1	3 22 27 −5 1 24.8		
	3 19 3	−5 1 18.0	3 16 27 −5 0 04.5		
	3 19 3	−5 1 18.0		3 26 03	−50 56.6
278	3 21 41	−5 1 9.5			
	3 21 41	−5 1 9.4			
	3 21 41	−5 1 9.4		3 24 37	−50 48.5
277	3 21 59	−5 0 07.6			
	3 21 59	−5 0 07.0			
	3 21 59	−5 0 07.6		3 25 01	−50 36.3
263	3 16 7	−50 4.8	−5 0 10 15		
	3 16 7	−50 4.7	−49 39 9		
0	3 16 7	−5 0 4.8	3 20 10 −5 0 21.3	3 23 12	−49 42.8
	Δα = 330″	Δδ = 42.4′	3 14 40 −49 38 9		
	= 54.8 mm.	= 41.6 mm.			
264	3 16 7	−49 45.4			
	3 16 7	−49 45.3			
	3 16 7	−49 45.4		3 23 17	−49 23.3
265	3 16 58	−49 34.1	−49 39 9		
	3 16 58	−49 34.0	−48 30 7		
	3 16 58	−49 34.0	3 14 40 −49 38.2	3 24 07	−49 12.2
	Δα = 358″	Δδ = 65.0′	3 20 38 −48 38.2		
	= 58.0 mm.	= 67.7 mm.			

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P.3346

Neb.	α	δ	Comp. Stars	Positions in 2000 α		δ	
266	3 17 14	-49 32.7	3 14 40 -49 30.2				
	3 17 14	-49 32.7	3 20 38 -48 33.2				
6.6	3 17 14	-49 32.7		3	20 24	23	-49 10.9
267	3 19 8	-49 33.0					
18.5	3 19 8	-49 32.9					
	3 19 8	-49 33.0		3	22 26	16	-49 11.6
268	3 17 31	-48 47.9					
(2)	3 17 32	-48 47.9					
36.3	3 17 32	-48 47.9		3	20 24	45	-48 26.1
269	3 17 45	-48 41.7					
8 (1)	3 17 45	-48 41.7					
42.7	3 17 40	-48 41.7		3	20 24	58	-48 19.9
272	3 19 31	-48 39.8					
(6)	3 19 31	-48 39.8					
	3 19 31	-48 39.8		3	22 26	43	-48 18.1
23.3							
273	3 22 46	-49 6.9	-49 41.7				
(153)	3 22 46	-49 6.9	-48 30.7				
	3 22 46	-49 6.9	3 24 4 -49 12.0	3	25 29	54	-48 45.5
12.2	Δα = 206'' = 34.2mm	Δδ = 39.8' = 39.9mm	3 20 38 -48 33.2				

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Neb.	α	δ	Comp. Stars	Positions in 2001 α	δ
✓392	3 29 36	-49 35.5	-49 431		
	3 29 36	-49 35.5	-49 417	32 ✓	✓
	3 29 36	-49 35.5	3 32 14 -49 45.1	3 36 40	-49 15.2
	Δα = 490″	Δδ = 32.6′	3 24 4 -49 12.5		
	= 79.2 mm.	= 34.3 mm.			
✓393	3 29 28	-49 34.6			
	3 29 28	-49 34.6		33 ✓	✓
	3 29 28	-49 34.6		3 36 32	-49 14.3
394	3 29 27	-49 34.6			
	3 29 27	-49 34.6			
star: cf H 14280	~~3 29 27 -49 34.2~~				
~~395~~	3 29 26	-49 34.6			
	3 29 26	-49 34.6			
	~~3 29 26 -49 34.6~~				
✓397	3 30 16	-49 30.0			
	3 30 16	-49 30.0		33 ✓	✓
	3 30 16	-49 30.0		3 37 30	-49 10.2
✓398	3 29 59	-49 25.1			
	3 29 59	-49 25.1		33 ✓	✓
	3 29 59	-49 25.1		3 37 03	-49 4.8
274	3 25 42	-49 9.1			
	3 25 42	-49 9.0			
2 stars: cf H 14280	~~3 25 42 -49 9.0~~				

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1930phae.proj.23280

H. 3946

Neb.	α		δ		Comp. Stars	Positions in 2000 α			δ	
405	3	27	-4	10.0						
(174)	3	27	-4	14.9						
	3	27	-4	13.0		3	34	11	-47	54.3
399	3	28	-4	42.2						
	3	28	-4	42.3						
~~Star of H 14280~~	~~3~~	~~28~~	~~-4~~	~~42.2~~						
400	3	30	-4	5.1						
(287)	3	30	-4	5.1						
	3	30	-4	5.1		3	37	33	-48	44.8
401	3	30	-4	4.5						
(288)	3	30	-4	4.4						
	3	30	-4	4.4		3	37	43	-48	44.6
402	3	32	-4	44.0	-4 4 31					
(320)	3	32	-4	44.0	-4 3 91					
	3	32	-4	44.0	3 32 14 -4 4 5.1	3	39	46	-48	23.4
	Δα = 391″		Δδ = 71.2′		3 32 43 -4 3 33.3					
	= 67.7mm.		= 69.3mm.							
403	3	33	-4	34.6						
(7)	3	33	-4	34.5						
	3	33	-4	34.6		3	40	37	-48	14.0
404	3	33	-4	34.5						
(8)	3	33	-4	34.5						
	3	33	-4	34.5		3	40	38	-48	14.0

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180 H 3346

Feb.	α	δ	Comp. Star	Positions in 2010 α	Positions in 2010 δ
↓406	3 34 25	-48 7.6	3 32 14 -49 45:1		
(11)	3 34 26	-48 7.6	3 32 40 -48 33.3		
	3 34 26	-48 7.6		41 ✓ 3 45 30 -47 48.0 ✓	
				3 37 31 -47 47.8	
✓ 407	3 36 51	-48 20.0			
(10)	3 36 51	-48 20.0			
	3 36 51	-48 20.0		39 ✓ 3 43 55 -48 0.4 ✓	
283	3 22 27	-51 23.1	-51 408		
duplicate:	3 22 27	-51 23.0	-50 1066 9		
position also	3 22 27	-51 23.0	3 22 27 -51 248	25 ✓ 3 29 25 -51 2.2 ✓	
found on p. 175	Δα = 391″ = 62.6 mm.	Δδ: 71.9′ = 71.7 mm.	3 28 58 -50 13.5		
✓ 284	3 22 57	-51 19.7			
	3 22 58	-51 19.8			
	3 22 58	-51 19.8		25 ✓ 3 29 56 -50 59.0 ✓	
✓ 279	3 22 33	-51 7.2			
	3 22 32	-51 7.1			
	3 22 32	-51 7.2		25 ✓ 3 29 30 -50 46.4 ✓	
✓ 276	3 22 50	-50 38.3			
	3 22 50	-50 38.3			
	3 22 50	-50 38.3		25 ✓ 3 29 52 -50 17.0 ✓	
✓ 275	3 23 10	-50 35.9			
	3 23 10	-50 35.9			
	3 23 10	-50 35.9		26 ✓ 3 30 11 -50 14.7 ✓	

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9.3946

Feb.	α	δ	Comp. Stars	Positions in 2000 α		δ
388	3 32 59	-51 13.3	-51 420			
	3 32 59	-51 13.2	-50 1066			
	3 32 59	-51 13.2	3 33 17 -51 32.3	3 39	52	-50 53.2
	Δα = 237″	Δδ = 74.8′	3 24 58 -50 13.0			
	= 39.0mm.	= 41.1mm.				
389	3 29 41	-50 59.3				
	3 29 41	-50 59.4				
	3 29 41	-50 59.4		3 36	40	-50 38.8
390	3 29 22	-50 52.9				
	3 29 22	-50 52.9				
	3 29 22	-50 52.9		3 36	21	-50 32.3
391	3 31 1	-50 27.1				
	3 31 1	-50 27.1				
	3 31 1	-50 27.1		3 37	39	-50 6.6
~~395~~	3 27 27	-51 40.0	-51 413			
	3 27 27	-51 40.0	-51 418			
	~~3 27 27 -51 40.0~~		3 25 23 -51 32.6			
	Δα = 231″	Δδ = 43.2′	3 29 14 -51 9.4			
	= 37.0mm.	= 42.4mm.				
296	3 24 14	-51 50.8				
	3 24 14	-51 50.9				
	~~3 24 14 -51 50.8~~					

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Neb	α	δ	Comp. Stars	Positions in 2000 α	δ
~~297~~	3 24 49 -51 49.8		3 25 23 -51 52.6		
	3 24 49 -51 49.9		3 29 14 -51 9.4		
	~~3 24 49 -51 49.8~~				
✓298	3 24 52 -51 24.5				
	3 24 52 -51 24.6				
	3 24 52 -51 24.6			3 35 46 -51 4.3	
✓292	3 23 11 -52 1.3		-52 392		
	3 23 10 -52 1.2		-51 412		
	3 23 10 -52 1.2		3 18 41 -52 34.1	3 30 03 -51 40.0	
	Δα = 402″ Δδ = 455′		3 25 23 -51 52.6		
	= 61.7mm = 46.1mm				
293	3 23 51 -52 21.9				
(44)	3 23 50 -52 21.6				
	3 23 50 -52 21.6			3 30 42 -52 0.5	
(132) 304	3 31 3 -52 21.9		-52 419		
class #269	3 31 3 -52 21.9		-51 413		
	3 31 3 -52 21.9		3 31 41 -52 27.4	3 37 51 -52 1.7	
	Δα = 378″ Δδ = 34.4′		3 25 23 -51 52.6		
	= 57.8mm = 36.8mm				
(130) 305	3 29 42 -52 21.4				
class #269	3 29 42 -52 21.4				
	3 29 42 -52 21.4			3 36 31 -52 1.0	

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H. 3946

Neb.	α			δ		Comp. Stars				Positions in 2000				
										α			δ	
(127a) 306	3	29	56	-52	27.3	3	31	41	-52 27.4					
class 14269	3	29	51	-52	27.3	3	20	23	-51 52.6					
	3	29	56	-52	27.3					3	36 32	45	-52	6.9
307	3	24	50	-52	26.4									
class 14269	3	24	50	-52	26.4									
	3	24	50	-52	26.4					3	35 31	39	-52	6.0
(111a) 308	3	24	23	-52	24.4									
class 14269	3	24	24	-52	24.4									
	3	24	24	-52	24.4					3	35 31	13 4	-52	3.9
~~294~~	3	26	41	-52	2.0									
	3	26	40	-52	2.0									
	~~3~~	~~26~~	~~40~~	~~-52~~	~~2.0~~									
300	3	28	5	-51	52.1									
	3	28	5	-51	52.1									
	3	28	5	-51	52.1					3	34 31	59 00	-51	37.8
~~304~~	3	29	24	-52	7.0									
	3	29	24	-52	7.0									
	~~3~~	~~29~~	~~24~~	~~-52~~	~~7.0~~									
302	3	30	14	-52	6.7									
	3	30	15	-52	6.7									
	3	30	14	-52	6.7					3	37 33	02 3	-51	46.4

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Feb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
1 303	3 30 30	-5 2	7.43 3 31 41 -5 2 27.4		
	3 30 29	-5 2	7.43 3 25 23 -5 1 52.6		
	3 30 30	-5 2	7.4	3 37 18	-51 47.1
✓ 299	3 30 49	-5 1	54.7		
	3 30 49	-5 1	54.7		
	3 30 49	-5 1	54.7	3 37 42	-51 34.7
369	3 26 16	-5 3	1.8 -5 3 56.8		
(Ann. 381, p. 193	3 26 17	-5 3	1.8 -5 2 41.9		
classified as	3 26 16	-5 3	1.8 3 25 20 -5 3 27.4	3 33 02	-52 41.0
1714269	Δα: 381"	Δδ: 60.0	3 31 41 -5 2 27.4		
	= 5 9.0 sec.	= 5 9.4 sec.			
368	3 26 42	-5 3	1.7		
	3 26 42	-5 3	1.8		
	3 26 42	-5 3	1.8	3 33 27	-52 41.1
(98) 367	3 26 46	-5 3	0.1		
	3 26 46	-5 3	0.1		
	3 26 46	-5 3	0.1	3 33 31	-52 39.4
(96) 366	3 26 50	-5 3	1.8		
	3 26 50	-5 3	1.8		
	3 26 50	-5 3	1.8	3 33 35	-52 41.1
349	3 27 33	-5 3	2.8		
	3 27 33	-5 3	2.8		
	3 27 33	-5 3	2.8	3 34 18	-52 42.9

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1930phae.proj.23280

Q.3346

Neb.	α	δ	Comp. Star	Positions in 2000 α		δ	
348	3 27 42	-5 3	0.8	3 25 20 -5 3 27.4			
	3 27 42	-5 3	0.8	3 31 41 -5 2 27.4			
	3 27 42	-5 3	0.8		3 34.30	27	-52 40.2
350	3 24 20	-5 3	2.7				
	3 24 20	-5 3	2.7				
	3 24 20	-5 3	2.7		3 35.31	05	-52 42.1
360	3 26 14	-5 3	2.8				
	3 26 14	-5 3	2.8				
	3 26 14	-5 3	2.8		3 34.30	59	-52 42.2
361	3 26 19	-5 3	6.6				
(113)	3 26 19	-5 3	6.6				
	3 26 19	-5 3	6.6		3 35.31	05	-52 46.0
362	3 26 10	-5 3	9.3				
	3 26 10	-5 3	9.3				
	3 26 10	-5 3	9.3		3 35.31	00	-52 48.7
364	3 27 50	-5 3	6.8				
	3 27 50	-5 3	6.8				
	3 27 50	-5 3	6.8		3 34.30	40	-52 46.1
365	3 27 48	-5 3	7.1				
	3 27 49	-5 3	7.2				
	3 27 48	-5 3	7.2		3 34.30	33	-52 46.5

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 H. 33 41

Heb.	α		δ		Comp. Star				Positions in 2000 α		δ	
(134) 36.3	3	28	47	-53	7.1	3	25	20	-53	27.4		
	3	28	47	-53	7.2	3	31	41	-52	27.4	31 ✓	
	3	28	47	-53	7.2						3 35 31	-52 46.6 ✓
35.9	3	28	46	-53	6.8							
	3	28	46	-53	6.8						31 ✓	
	3	28	46	-53	6.8						3 35 30	-52 46.2 ✓
(140) 35.7	3	28	53	-53	7.6							
	3	28	53	-53	7.7						31 ✓	
	3	28	53	-53	7.6						3 35 37	-52 47.1 ✓
(115) 30.2	3	28	43	-53	3.7							
	3	28	43	-53	3.8						31 ✓	
	3	28	43	-53	3.8						3 35 27	-52 43.2 ✓
~~30.3~~	3	29	6	-52	59.6							
	3	29	6	-52	59.7							
	3	29	6	-52	59.6							
(129a) 33.5	3	29	22	-53	4.3							
	3	29	22	-53	4.3						32 ✓	
	3	29	22	-53	4.3						3 34 06	-52 43.8 ✓
33.4	3	29	46	-53	1.5							
	3	29	46	-53	1.6						32 ✓	
	3	29	46	-53	1.6						3 34 30	-52 41.2 ✓

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1930phae.proj.23280

P. 3346

Nb.	α	δ	Comp. Stars	Positions for 2000 α	δ
(135) 3356	3 30 44	-0°3 A.5	3 20 20	-0°3 27.4	
	3 30 7	-0°3 A.6	3 31 41	-0°2 27.4	
	3 30 6	-53 A.6		3 32 34 50	-52 48.2
3351	3 28 20	-0°2 0°0.8			
	3 28 20	-0°2 0°0.9			
	3 28 20	-0°2 0°0.8		3 31 35 10	-52 35.4
3350	3 28 12	-0°2 0°0.6			
	3 28 1	-0°2 0°0.7			
	3 28 2	-0°2 0°0.6		3 30 34 52	-52 36.2
3346	3 27 44	-0°2 0°2.8			
	3 27 49	-0°2 0°2.8			
	3 27 49	-0°2 0°2.8		3 30 34 38	-52 32.2
3347	3 27 30	-0°2 0°4.6			
	3 27 30	-0°2 0°4.6			
	3 27 30	-0°2 0°4.6		3 30 34 25	-52 34.0
3345	3 27 23	-0°2 0°1.6			
	3 27 23	-0°2 0°1.6			
	3 27 23	-0°2 0°1.6		3 29 34 13	-52 31.0
3344	3 27 30	-0°2 0°0.9			
	3 27 30	-0°2 0°1.0			
	3 27 30	-0°2 0°1.0		3 30 34 20	-52 30.4

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188 17.33 41

Nb.		α			δ		Comp. Stars				Positions in 2000 α		δ	
343	3	26	37	-52	52.6	3	25	20	-53	27.4				
	3	26	37	-52	52.6	3	31	41	-52	27.4		29	✓	✓
	3	26	37	-52	52.6						3	33	27	-52 32.0
338	3	26	3	-52	47.1									
	3	26	3	-52	47.1							28	✓	✓
	3	26	3	-52	47.1						3	32	53	-52 26.5
(102) 339	3	27	16	-52	40.6									
	3	27	16	-52	40.6							30	✓	✓
	3	27	16	-52	40.6						3	34	06	-52 25.0
340	3	27	23	-52	46.8									
	3	27	23	-52	46.8							30	✓	✓
	3	27	23	-52	46.8						3	34	13	-52 26.2
341	3	27	29	-52	46.6									
	3	27	29	-52	46.6							30	✓	✓
	3	27	29	-52	46.6						3	34	19	-52 28.0
(119) 342	3	27	36	-52	46.6									
	3	27	36	-52	46.6							30		✓
	3	27	36	-52	46.6						3	34	26	-52 28.0
336	3	27	33	-52	45.9									
	3	27	33	-52	45.9							30	✓	✓
	3	27	33	-52	45.9						3	34	23	-52 25.3

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1930phae.proj..2328M

A. 3346

Nº6.	α	δ	Comp. Stars	Positions in 2000 α		δ	
337	3 27 23	-0°2 43.2	3 20 20 -0°3 27.4				
	3 27 23	-0°2 43.2	3 31 41 -52 27.4				
2.0	3 27 23	-0°2 43.2		3	30 34	13	-52 22.6
(122) 335	3 27 54	-0°2 43.6					
	3 27 57	-52 43.6					
6.5	3 27 54	-0°2 43.6		3	30 34	48	-52 23.0
334	3 27 57	-0°2 46.9					
	3 27 57	-0°2 46.9					
5.0	3 27 57	-0°2 46.9		3	30 34	47	-52 26.3
(123) 332 a	3 24 6	-0°2 44.9					
	3 24 6	-0°2 45.0					
6.2	3 28 6	-0°2 45.0		3	30 34	56	-52 24.5
332 b	3 24 9	-0°2 44.6					
	3 24 9	-0°2 44.6					
8.0	3 28 9	-0°2 44.6		3	30 34	59	-52 24.1
333	3 24 0	-0°2 45.0					
	3 24 0	-0°2 45.0					
8.0	3 28 0	-0°2 45.0		3	30 34	55	-52 24.5
331	3 24 22	-0°2 46.0					
	3 24 22	-0°2 46.1					
5.3	3 28 22	-0°2 46.0		3	31 35	12	-52 25.5

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 7.3346

Yr 6	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
330	3 28 29 -52 47.3	3 29 20 -53 27.4			
	3 28 29 -52 47.2	3 31 41 -52 27.4			
star: of A14272	~~3 28 29 -52 47.2~~				
329	3 28 47 -52 42.5				
	3 28 46 -52 42.6			31 ✓	✓
	3 28 46 -52 42.6			3 35 36 -52	22.2
(126) 325	3 29 38 -52 42.8				
	3 29 38 -52 42.8			32 ✓	✓
	3 29 38 -52 42.8			3 36 28 -52	22.4
322	3 29 44 -52 40.8				
	3 29 44 -52 40.9			32 ✓	✓
	3 29 44 -52 40.8			3 36 34 -52	20.4
(127) 326	3 29 56 -52 42.4				
	3 29 56 -52 42.3			32 ✓	✓
	3 29 56 -52 42.2			3 36 46 -52	21.8
~~324~~	3 29 56 -52 47.5				
	3 29 57 -52 47.6				
star: of A14272	~~3 29 56 -52 47.6~~				
(126a) 327	3 30 30 -52 42.8				
	3 30 30 -52 42.9			33 ✓	✓
	3 30 30 -52 42.8			3 37 19 -52	28.6

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Fig. 2946

Fld.		α		δ		Comp. stars					Positions in 2000				
											α			δ	
(128a)	321	3	30	22	-0°2	33.9	3	25	20	-0°2	27.4				
		3	30	22	-0°2	34.0	3	31	41	-0°2	27.4	33			
		3	30	22	-0°2	34.0						3 37	11	-52	19.8
	320	3	29	38	-0°2	33.4									
		3	29	38	-0°2	33.5						32			
		3	29	38	-0°2	33.4						3 36	28	-52	13.0
	(125) 323	3	29	9	-0°2	37.8									
		3	29	9	-0°2	37.8						31			
		3	29	9	-0°2	37.8						3 35	53	-52	17.4
	324	3	29	9	-0°2	34.0									
		3	29	9	-0°2	34.0						31			
		3	29	9	-0°2	34.0						3 35	59	-52	18.1
	(118) 319	3	28	8	-0°2	36.0									
		3	28	8	-0°2	36.1						30			
		3	28	8	-0°2	36.0						3 34	58	-52	15.5
	(110) 318	3	27	17	-0°2	34.7									
		3	27	17	-0°2	34.4						30			
		3	27	17	-0°2	34.8						3 34	08	-52	14.2
	(106) 310	3	26	49	-0°2	32.4									
		3	26	49	-0°2	32.0						29			
		3	26	49	-0°2	32.4						3 33	40	-52	11.8

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1930phae.proj.2328N

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Yale	α			δ			Camp. Flow				Positions in 2000 α		δ	
(105) 313	3	26	9	-0°2	33.4	3	29	20	-0°3	27.4				
	3	26	10	-0°2	33.5	3	31	41	-0°2	27.4				
	3	26	10	-0°2	33.4						3	33 29 01	-52	12.8
(109) 314	3	26	40	-0°2	36.4									
	3	26	39	-0°2	36.5									
	3	26	40	-0°2	36.4						3	33 29 31	-52	15.8
(104) 315	3	26	44	-0°2	37.4									
	3	26	44	-0°2	37.5									
	3	26	44	-0°2	37.4						3	33 29 35	-52	16.8
(108) 312	3	26	5	-0°2	33.4									
	3	26	4	-0°2	33.5									
	3	26	4	-0°2	33.4						3	32 28 55	-52	12.7
(107) 311	3	26	7	-0°2	32.4									
	3	26	7	-0°2	32.5									
	3	26	7	-0°2	32.4						3	32 28 58	-52	11.7
378	3	28	44	-0°3	26.5									
	3	28	43	-0°3	26.4									
	3	28	44	-0°3	26.4						3	35 31 28	-53	5.9
379	3	28	40	-0°3	30.3									
	3	28	40	-0°3	30.4									
	3	28	40	-0°3	30.4						3	35 31 24	-53	9.9

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Nb.	α			δ		Comp. Stars.			Positions in 2000			
										α		δ
380	3	32	12	-5 3	59.2	-5 2 419						
	3	32	13	-5 3	59.3	-5 1 442						
	3	32	12	-5 3	59.2	3 31 41	-5 2	27.4	3	34/38	55	-53 39.1
	Δα = 499"			Δδ = 5'1.1'		3 39 54	-5 1	36.3				
	= 74.3 mm.			= 46.0 m.								
381	3	33	16	-5 2	21.8							
(157)	3	33	16	-5 2	21.9							
	3	33	16	-5 2	21.8				3	36/40	03	-52 1.9
~~382~~	3	34	13	-5 2	32.0							
	3	34	13	-5 2	31.9							
	3	34	13	-5 2	32.0							
~~383~~	3	35	6	-5 2	1.8							
	3	35	6	-5 2	1.9							
	3	35	6	-5 2	1.8							
384	3	34	37	-5 1	59.6							
	3	34	37	-5 1	59.7							
	3	34	37	-5 1	59.6				3	37/41	29	-51 40.0
385	3	34	37	-5 1	57.8							
	3	34	38	-5 1	57.9							
	3	34	38	-5 1	57.8				3	37/41	30	-51 38.2
386	3	32	25	-5 1	50.1							
	3	32	25	-5 1	50.2							
	3	32	25	-5 1	50.2				3	35/39	18	-51 30.2

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	α		δ		comp. stars				Positions in 2000			
									α		δ	
3	3h	15m	-5°	49.8	3	31	41	-5 2	27.4			
3	3h	15m	-5°	49.8	3	39	54	-5 1	36.3			
3	3h	15m	-5°	49.8						38	✓	✓
									3	42	07	-51 30.2

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H.3946

4/26. α δ Comp Stars

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Book 5

Plate	Page No.	Errors
12415	5	232 - about 4' off in dec.
(McLaughlin only)	9	754 - should be about 4' too.
	13	1027 - off in R.A.
	17	672 - " " Dec.
	21	764 - about 1' off in dec.
	34	1018 - wrong R.A. & Dec.; probably & 1019 mistaken for 1028 & 1029
	48	848 - about 5' off in dec.
	62	823 - about 2' " " "
	62	827 - " " " " "
	63	928 - " 1' " " "
	65	21248 - dec. should be reversed
	68	88C - about 2' off in dec.

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