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All positions are for 1900

" = seconds of hour angle

' = minutes of arc

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2 A 4607

Seconds of hour angle
Minutes " arc

Neb.	α	δ	Comp. Stars	Positions in 2000 α	δ
1	18 26 12	-75 35.2	-75 1430		
	18 26 10	-75 35.3	-75 1422		
	18 26 11	-75 35.2	18 33 28 -75 54.4	18 39 55	-75 31.6
	Δα: 963"	Δδ: 25.9	18 17 25 -75 28.5		
	= 56.3 mm	= 33.0 mm			
2	18 17 21	-75 49.3	-75 1427		
	18 17 19	-75 49.3	-75 1418		
	18 17 20	-75 49.3	18 21 49 -75 55.3	18 31 8	-75 54.9
	Δα: 575"	Δδ: 22.7'	18 12 14 -75 32.6		
	= 33.9 mm	= 25.6 mm			
3	18 38 26	-75 55.6	-75 1438		
	18 38 27	-75 55.6	-75 1430		
	18 38 26	-75 55.6	18 41 38 -75 57.1	18 52 22	-75 58.8
	Δα: 490"	Δδ: 2.7'	18 33 28 -75 54.4		
	= 32.6 mm	= 9.2 mm			
4	18 7 6	-76 37.2	-76 1239		
	18 7 6	-76 37.2	-76 1234		
	18 7 6	-76 37.2	18 12 8 -76 55.4	18 21 38	-76 36.4
	Δα: 560"	Δδ: 19.1	18 2 48 -76 36.3		
	= 31.3 mm	= 20.1			
5	18 8 33	-76 44.0			
	18 8 33	-76 43.9			
	18 8 33	-76 44.0		18 23 9	-76 42.8

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A 4607

Neb.	α	δ	Comp. Stars	Positions in 2000 α	δ
6	18 10 33	-77 7.1	-77 1294		
	18 10 33	-77 7.1	-76 1239		
	18 10 33	-77 7.1	18 7 45 -77 52.6	18 25 25	-77 5.5
	Δα = 263"	Δδ = 57.2	18 12 8 -76 55.4		
	= 16.7mm	= 57.0mm			
7	18 10 33	-77 26.2			
	18 10 33	-77 26.2			
	18 10 33	-77 26.2		18 25 45	-77 24.6
8	18 13 19	-77 34.1	-77 1294		
	18 13 19	-77 34.0	-77 1298		
	18 13 19	-77 34.0	18 7 45 -77 52.6	18 28 31	-77 32.0
	Δα = 348"	Δδ = 27.8	18 13 33 -77 24.8		
	= 19.8mm	= 26.9mm			
9	18 7 54	-77 43.9			
	18 7 52	-77 43.8			
	18 7 53	-77 43.8		18 23 17	-77 42.6
10	17 38 17	-77 50.0	-77 1218		
	17 38 17	-77 49.9	-77 1224		
	17 38 17	-77 50.0	17 32 45 -76 59.0	17 53 41	-77 52.4
	Δα = 476"	Δδ = 11.9	17 40 41 -76 47.1		
	= 25.8mm	= 14.7mm			
11	see H 4595				

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Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
12	17 53 20	-78 31.5	-78 1157		
	17 53 19	-78 31.5	-78 1153		
	17 53 20	-78 31.5	17 54 29 -78 49.9	18 9 28	-78 32.3
	Δα = 462"	Δδ = 29.2	17 46 47 -78 20.7		
	= 24.0 mm	= 28.4 mm			
13	18 7 45	-78 43.2	-78 1165		
	18 7 46	-78 43.2	-78 1161		
	18 7 46	-78 43.2	18 4 18 -78 57.6	18 24 02	-78 42.0
	Δα = 440"	Δδ = 27.3	18 11 38 -78 30.3		
	= 22.5 mm	= 27.9 mm			
14	18 19 0	-79 12.0	-79 960		
	18 19 0	-79 11.8	-78 1165		
	18 19 0	-78 11.9	18 19 50 -79 42.0	18 34 48	-78 9.1
	Δα = 932"	Δδ = 44.4	18 4 18 -78 57.6		
	= 41.0 mm	= 46.9 mm			
C	18 18 51	-77 3.6	-77 1307		
	18 18 50	-77 3.6	-76 1239		
	18 18 50	-77 3.6	18 26 48 -77 15.0	18 33 30	-77 0.8
	Δα = 880"	Δδ = 19.6	18 12 8 -76 55.4		
	= 47.7 mm	= 23.4 mm			

#

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A 6586

Neb.	α	δ	Comp. Stars	Positions in 2000 α	δ
1	3 8 1	-61 11.1	-61 247		
	3 8 1	-61 11.2	-60 245		
2.3	3 8 1	-61 11.2 ✓	3 5 59 -61 32.1	3 10 5	-60 48.4
	Δα = 374"	Δδ = 40.6	3 12 13 -60 51.5		
	= 48.7 mm	= 36.7 mm			
2	3 1 28	-59 51.2	-60 230		
	3 1 28	-59 51.2	-59 254		
12.0	3 1 28	-59 51.2 ✓	3 0 36 -60 10.7	3 3 56	-59 27.6
	Δα = 330"	Δδ = 25.3	3 6 6 -59 45.4		
	= 42.8 mm	= 22.8 mm			
3	3 15 52	-61 56.4	-62 266		
	3 15 52	-61 56.4	-61 250		
9.1	3 15 52	-61 56.4 ✓	3 16 4 -61 57.3	3 17 52	-61 34.4
	Δα = 179"	Δδ = 2.7	3 13 5 -61 54.6		
	= 20.2 mm	= 14.5			
4	3 14 39	-61 56.5			
	3 14 39	-61 56.5			
0.8	3 14 39	-61 56.5 ✓		3 16 39	-61 34.5
5	3 15 45	-62 21.9	-62 264		
	3 15 44	-62 21.9	-62 266		
	3 15 44	-62 21.9 ✓	3 13 36 -62 31.6	3 17 40	-61 59.9
	Δα = 148"	Δδ = 34.3	3 16 4 -61 57.3		
	= 21.1 mm	= 32.8 mm			

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H 6586

Neb.	α	δ	Comp. stars	Positions in 2000 α	δ
6	3 12 37	-62 49.1	-63 213		
	3 12 37	-62 49.1	-62 263		
	3 12 37	-62 49.1 ✓	3 12 26 -63 2.4	3 14 33	-62 27.1
	Δα = 29"	Δδ = 15.3	3 12 35 -62 47.1		
	= 4.7mm	= 15.1mm			
7	3 7 35	-63 31.2	-63 212		
	3 7 35	-63 31.2	-63 210		
	3 7 35	-63 31.2 ✓	3 8 31 -63 37.8	3 9 23	-63 8.4
	Δα = 261"	Δδ = 22.4	3 4 10 -63 15.4		
	= 27.6mm	= 24.6mm			
8	3 4 53	-64 24.1	-64 226		
	3 4 53	-64 24.2	-64 216		
	3 4 53	-64 24.2 ✓	3 5 32 -64 25.5	3 6 37	-64 1.0
	Δα = 469"	Δδ = 23.9	2 57 43 -64 1.6		
	= 49.5mm	= 27.2mm			
9	3 3 38	-64 49.3	-65 212		
	3 3 38	-64 49.3	-64 226		
	3 3 38	-64 49.3 ✓	3 2 28 -64 55.3	3 5 22	-64 26.1
	Δα = 184"	Δδ = 29.8	3 5 32 -64 25.5		
	= 20.3mm	= 28.4mm			
10	3 4 56	-62 55.1	-63 219		
	3 4 56	-62 55.0	-62 256		
	3 4 56	-62 55.0 ✓	3 3 22 -62 56.2	3 6 56	-62 31.8
	Δα = 122"	Δδ = 20.5	3 5 27 -62 35.7		
	= 15.8mm	= 22.5			

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A 6586

Neb.	α	δ	Comp. Stars	Positions in 2000 α	δ
" 11	3 4 52	-62 38.0			
	3 4 52	-62 38.0			
	3 4 52	-62 38.0 ✓		3 6 52	-62 14.8
76	3 4 42	-62 39.0			
	3 4 42	-62 39.0			
	3 4 42	-62 39.0 ✓		3 6 42	-62 15.8
71	3 4 14	-62 36.6			
	3 4 15	-62 36.5			
	3 4 14	-62 36.6 ✓		3 6 14	-62 13.4
12	3 7 9	-62 39.4	-62 260		
	3 7 9	-62 39.4	-62 256		
	3 7 9	-62 39.4 ✓	3 8 12 -62 44.0	3 9 9	-62 16.6
	Δα = 168"	Δδ = 8.3	3 5 24 -62 35.7		
	= 18.5	= 11.5			
13	3 6 33	-62 36.5			
	3 6 33	-62 36.6			
	3 6 33	-62 36.6 ✓		3 8 33	-62 13.8
15a	3 10 51	-62 21.3	-62 264		
	3 10 50	-62 21.3	-62 259		
	3 10 50	-62 21.3 ✓	3 13 36 -62 31.6	3 12 46	-61 58.9
	Δα = 434"	Δδ = 22.2	3 6 22 -62 9.4		
	= 48.4 mm	= 27.0			

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8

A 6586

Neb.

	α			δ		Comp. stars				Positions in 2000 α			δ	
15h	3	4	44	-62	6.1	-62	259							
	3	4	44	-62	6.1	-61	246							
	3	4	44	-62	6.1 ✓	3	6 22	-62	9.4	3	6	44	-61	43.3
	Δα = 253"			Δδ = 16.2		3	2 9	-61	53.2					
	= 29.0 mm			= 18.1 mm										
16	3	5	58	-62	5.2									
	3	5	57	-62	5.3									
	3	5	58	-62	5.2 ✓					3	7	58	-61	42.4
17	3	6	6	-61	53.4									
	3	6	6	-61	53.4									
	3	6	6	-61	53.4 ✓					3	7	6	-61	54.2
18	3	11	51	-61	21.2	-61	247							
	3	11	51	-61	21.3	-60	245							
	3	11	51	-61	21.2 ✓	3	5 59	-61	32.1	3	13	55	-60	58.8
	Δα = 374"			Δδ = 40.6		3	12 13	-60	51.5					
	= 48.7 mm			= 36.7 mm										
19	3	10	11	-61	29.6									
	3	10	11	-61	29.6									
	3	10	11	-61	29.6 ✓					3	12	15	-61	7.2
20	3	9	57	-61	18.1									
	3	9	58	-61	18.3									
	3	9	58	-61	18.2 ✓					3	12	2	-60	55.8

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H 6586

Neb.	α	δ	Comp. stars	Positions in 2000 α	Positions in 2000 δ
26	3 6 22	-61 22.6			
	3 6 22	-61 22.6			
3.3	3 ~~6~~ 6 ~~22~~ 22	-61 22.6 ✓		3 8 30	-60 59.4
21	3 9 13	-60 43.8	-60 243		
	3 9 13	-60 43.9	-60 244		
	3 9 13	-60 43.8 ✓	3 6 30 -60 51.5	3 11 25	-60 21.4
	Δα = 216"	Δδ = 37.9	3 10 6 -60 13.6		
12.4	= 30.3 mm	= 35.9 mm			
22	3 7 26	-60 26.4			
	3 7 26	-60 26.4			
4.2	3 7 26	-60 26.4 ✓		3 9 42	-60 3.6
24	3 4 45	-60 51.5	-60 243		
	3 4 44	-60 51.5	-60 233		
8.8	3 4 44	-60 51.5 ✓	3 6 30 -60 51.5	3 7 0	-60 28.3
	Δα = 444"	Δδ = 8.0	2 59 6 -60 43.5		
	= 43.1 mm	= 9.8 mm			
31	3 0 58	-60 47.3			
	3 0 58	-60 47.3			
7.2	3 0 58	-60 47.3 ✓		3 3 18	-60 23.7
25	3 4 55	-60 29.8	-60 242		
	3 4 55	-60 29.8	-60 241		
5.8	3 4 55	-60 29.8 ✓	3 6 4 -60 33.4	3 7 11	-60 6.6
	Δα = 103"	Δδ = 3.8	3 4 21 -60 29.6		
	= 12.3 mm	= 7.7 mm			

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A 6586

Neb.	α	δ	Comp. stars	Positions in 2000 α	δ
27	3 4 41	-61 22.3	-61 247		
	3 4 42	-61 22.4	-61 241		
	3 4 42	-61 22.4 ✓	3 5 59 -61 32.1	3 6 50	-60 59.2
	Δα = 319"	Δδ = 20.8	3 0 40 -61 11.3		
	= 37.0 mm	= 23.3 mm			
28	3 2 58	-61 19.3			
	3 2 58	-61 19.2			
	3 2 58	-61 19.2 ✓		3 5 06	-60 56.0
29	3 2 15	-61 13.2			
	3 2 15	-61 13.2			
	3 2 15	-61 13.2 ✓		3 4 27	-60 49.6
30	3 2 58	-60 58.5	-61 241		
	3 2 58	-60 58.4	-60 239		
	3 2 58	-60 58.4 ✓	3 0 40 -61 11.3	3 5 14	-60 35.2
	Δα = 158"	Δδ = 17.7	3 3 18 -60 53.6		
	= 20.0 mm	= 16.9 mm			
32	2 59 17	-60 4.9	-60 232		
	2 59 16	-60 4.9	-59 254		
	2 59 16	-60 4.9 ✓	2 57 46 -60 13.1	3 1 36	-59 41.3
	Δα = 500"	Δδ = 27.7	3 6 6 -59 45.4		
	= 64.0 mm	= 24.1 mm			
33	2 58 9	-60 10.6			
	2 58 10	-60 10.8			
	2 58 10	-60 10.7 ✓		3 00 30	-59 47.1

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H 6586

Net	α	δ	Comp. stars	Positions in 2000 α	Positions in 2000 δ
34	2 57 23	-60 46.6	-61 237		
	2 57 22	-60 46.6	-60 233		
9.2	2 57 22	-60 46.6 ✓	2 54 32 -60 59.8	2 59 42	-60 22.6
	Δα = 274"	Δδ = 16.3	2 59 6 -60 43.5		
	= 44.7mm	= 13.7mm			
35	2 56 15	-60 45.8			
	2 56 14	-60 45.8			
56.0	2 56 14	-60 45.8 ✓		2 58 38	-60 21.8
36	2 57 17	-61 1.9	-61 245		
	2 57 17	-61 1.9	-61 237		
49.6	2 57 17	-61 ~~18.0~~ 1.7 ✓	3 1 55 -61 28.1	2 59 33	-60 37.7
			2 54 32 -60 59.8		
	Δα = 443"	Δδ = 28.3			
	= 52.3mm	= 29.1mm			
35.2					
37	2 59 17	-61 1.3			
	2 59 16	-61 1.4			
	2 59 16	-61 1.4 ✓		3 1 28	-60 37.8
38	3 0 32	-61 47.4	-62 249		
41.3	3 0 32	-61 47.5	-61 245		
	3 0 32	-61 47.4 ✓	2 57 44 -61 58.8	3 2 44	-61 23.8
	Δα = 251"	Δδ = 30.7	3 1 55 -61 28.1		
	= 31.9mm	= 31.1mm			
74	3 1 38	-61 37.8			
	3 1 39	-61 37.6			
17.1	3 1 38	-61 37.7 ✓		3 3 50	-61 14.3

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A 6586
Neb.

	α			δ		Comp. stars				Positions in 2000 α		δ	
75	3	0	23	-61	48.4								
	3	0	24	-61	48.3								
	3	0	24	-61	48.4 ✓					3	2	36	-61 24.8
79	3	1	9	-61	34.6								
	3	1	9	-61	34.6								
	3	1	9	-61	34.6 ✓					3	3	21	-61 11.0
39	3	0	23	-62	43.8	-62 250							
	3	0	22	-62	43.8	-62 251							
	3	0	22	-62	43.8 ✓	2	59	31	-62 50.4	3	2	26	-62 20.2
	Δα = 86"			Δδ = 30.0		3	0	57	-62 20.4				
	= 11.7mm			= 29.6mm									
40	2	58	19	-63	15.9	-63 205							
	2	58	19	-63	15.8	-63 202							
	2	58	19	-63	10.8 ✓	3	0	19	-63 27.9	3	0	15	-62 52.2
	Δα = 263"			Δδ = 24.0		2	55	56	-63 3.9				
	= 28.6mm			= 25.5mm									
41	2	57	34	-63	23.7								
	2	57	33	-63	23.7								
	2	57	34	-63	23.7 ✓					2	59	34	-62 59.7
42	2	55	10	-63	50.8	-64 216							
	2	55	9	-63	50.7	-63 199							
	2	55	10	-63	50.8 ✓	2	57	43	-64 1.6	2	57	10	-63 26.8
	Δα = 237"			Δδ = 24.0		2	53	46	-63 37.6				
	= 25.8mm			= 25.1mm									

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H 6586

	Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
2000	43	2 53 14	-63 16.1	-63 198		
		2 53 14	-63 16.0	-63 202		
4.8		2 53 14	-63 16.0 ✓	α 52 18 -63 24.5	2 55 18	-62 51.6
		Δα = 218"	Δδ = 20.6	α 55 56 -63 3.9		
		= 25.5mm	= 20.0mm			
11.0	81	2 55 12	-63 16.7			
		2 55 12	-63 16.7			
		2 55 12	-63 16.7 ✓		2 57 12	-62 52.7
20.2	44	2 53 25	-62 55.5	-63 202		
		2 53 24	-62 55.5	-62 241		
		2 53 24	-62 55.5 ✓	α 55 56 -63 3.9	2 55 32	-62 31.1
		Δα = 234"	Δδ = 25.6	α 52 2 -62 38.3		
		= 26.2mm	= 26.4mm			
52.2	45	2 55 20	-62 46.1			
		2 55 19	-62 46.0			
		2 55 20	-62 46.0 ✓		2 57 28	-62 22.0
	46	2 53 37	-62 29.3	-62 241		
		2 53 37	-62 29.4	-62 244		
59.7		2 ~~55~~ 53 ~~20~~ 37	-62 ~~46.0~~ 29.4 ✓	α 52 2 -62 38.3	2 55 45	-62 5.0
		Δα = 198"	Δδ = 18.4	α 55 20 -62 12.9		
		= 23.9mm	= 17.7mm			
26.8	47	2 55 3	-62 27.4			
		2 55 3	-62 27.4			
		2 55 3	-62 27.4 ✓		2 57 13	-62 3.4

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H 6586
neb.

	α	δ	Comp stars	Positions in 2000 α	δ
48	2 55 57	-62 30.4	-62 248		
	2 55 57	-62 30.4	-62 244		
	2 55 57	-62 30.4 ✓	2 57 11 -62 43.1	2 58 5	-62 6.4
	Δα = 111"	Δδ = 23.2	2 55 20 -62 19.9		
	= 11.9 mm	= 23.6			
49	2 54 22	-61 51.8	-62 249		
	2 54 22	-61 51.8	-61 233		
	2 54 22	-61 51.8 ✓	2 57 44 -61 58.8	2 56 38	-61 27.4
	Δα = 412"	Δδ = 26.6	2 51 52 -61 32.2		
	= 41.0 mm	= 27.6 mm			
50	2 48 55	-61 55.5	-62 239		
	2 48 55	-61 55.4	-61 232		
	2 48 55	-61 55.4 ✓	2 49 36 -62 6.6	2 51 15	-61 30.6
	Δα = 58"	Δδ = 48.0	2 48 38 -61 18.6		
	= 6.4 mm	= 48.6 mm			
51	2 49 20	-61 32.8			
	2 49 20	-61 32.7			
	2 49 20	-61 32.8 ✓		2 51 40	-61 8.0
52	2 46 17	-61 29.3	-61 231		
	2 46 16	-61 29.3	-61 227		
	2 46 16	-61 29.3 ✓	2 47 36 -61 38.7	2 48 40	-61 4.1
	Δα = 140"	Δδ = 18.9	2 45 16 -61 19.8		
	= 16.7 mm	= 19.2 mm			

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H 6586

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
53	2 45 6	-62 19.6	-62 229		
	2 45 6	-62 19.6	-62 239		
6.4	2 45 6	-62 19.6 ✓	2 44 40 -62 20.5	2 47 22	-61 54.4
	Δα = 296"	Δδ = 13.9	2 49 36 -62 6.6		
	= 35.0 mm	= 13.9 mm			
54	2 43 29	-62 47.5	-62 218		
	2 43 28	-62 47.5	-62 229		
7.4	2 43 28	-62 47.5 ✓	2 39 35 -62 50.8	2 45 48	-62 22.3
	Δα = 305"	Δδ = 31.3	2 44 40 -62 20.5		
	= 34.9 mm	= 31.0 mm			
85	2 43 11	-62 32.5			
	2 43 12	-62 32.5			
0.6	2 43 12	-62 32.5 ✓		2 45 32	-62 7.3
55	2 44 3	-63 19.2	-63 186		
	2 44 3	-63 19.1	-63 180		
	2 44 3	-63 19.2 ✓	2 45 58 -63 29.2	2 46 15	-62 34.0
	Δα = 239"	Δδ = 11.7	2 41 59 -63 17.5		
8.0	= 27.0 mm	= 11.4 mm			
56	2 44 32	-63 40.7	-64 195		
	2 44 32	-63 40.7	-63 186		
1.1	2 44 32	-63 40.7 ✓	2 41 31 -63 54.7	2 46 44	-63 15.5
	Δα = 267"	Δδ = 25.5	2 45 58 -63 29.2		
	= 29.5 mm	= 25.9			

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H 6586
Neb.

	α	δ	Comp. stars	Positions in 2100 α	δ
57	2 39 23	-65 7.5	-65 195		
	2 39 22	-65 7.4	-64 193		
	2 39 22	-65 7.4 ✓	2 41 31 -65 54.7	2 41 22	-64 41.8
	Δα = 199"	Δδ = 75.5	2 38 12 -64 39.2		
	= 45.8 mm	= 28.3 mm			
58	2 37 13	-63 27.1	-63 176		
	2 37 13	-63 27.3	-63 180		
	2 ~~37~~ 37 ~~56~~ 13	-63 ~~27.6~~ 27.2	2 37 13 -63 33.5 ✓	2 39 31	-63 1.4
	Δα = 286"	Δδ = 16.0'	2 41 59 -63 17.5		
	= 29.1 mm	= 10.6 mm			
59	2 40 1	-63 0.5	-63 180		
	2 40 2	-63 0.4	-62 216		
	2 40 2	-63 0.4 ✓	2 41 59 -63 17.5	2 42 18	-62 34.8
	Δα = 262"	Δδ = 42.6	2 37 37 -62 34.9		
	= 31.0 mm	= 42.5			
60	2 38 31	-62 47.0			
	2 38 30	-62 46.9			
	2 38 30	-62 47.0 ✓		2 40 54	-62 21.4
62	2 28 28	-63 29.9	-64 171		
	2 28 27	-63 29.9	-63 167		
	2 28 28	-63 29.9 ✓	2 24 2 -63 53.8	2 30 52	-63 3.5
	Δα = 345"	Δδ = 27.1	2 27 47 -63 26.7		
	= 36.4 mm	= 29.8			

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A 6586

		α	δ	Comp. stars	Positions in 2000 α	δ
100	Feb 63	2 22 38	-63 40.8	-64 162		
		2 22 38	-63 40.8	-63 159		
11.8		2 22 38	-63 40.8 ✓	2 19 15 -63 55.6	2 25 8	-63 13.8
		Δα = 242"	Δδ = 17.1	2 23 17 -63 38.5		
		= 25.2 mm	= 19.6			
	64	2 24 24	-63 11.3	-63 162		
		2 24 23	-63 11.3	-63 158		
1.4		2 24 24	-63 11.3 ✓	2 27 52 -63 19.1	2 26 52	-62 44.5
		Δα = 396"	Δδ = 24.7	2 21 16 -62 54.4		
		= 47.0 mm	= 20.8			
	65	2 28 56	-62 55.4	-63 164		
		2 28 56	-62 55.4	-62 209		
34.8		2 28 56	-62 55.4 ✓	2 28 34 -63 3.2	2 31 28	-62 29.0
		Δα = 161"	Δδ = 16.6	2 31 15 -62 46.6		
		= 17.2 mm	= 17.9 mm			
	66	2 26 13	-61 34.4	-61 209		
		2 26 13	-61 34.3	-61 210		
21.4		2 26 13	-61 34.4 ✓	2 25 40 -61 45.2	2 26 53	-61 7.6
		Δα = 53"	Δδ = 23.7	2 26 33 -61 21.5		
		= 4.8	= 24.3			
3.5	67	2 35 15	-61 46.4	-61 216		
		2 35 15	-61 46.3	-61 214		
		2 35 15	-61 46.4 ✓	2 36 2 -61 48.6	2 37 47	-61 20.4
		Δα = 230"	Δδ = 18.9	2 32 12 -61 29.7		
		= 28.2 mm	= 17.7			

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A 6586
neb.

	α			δ			Comp. Stars				Positions in 2000 α		δ	
68	2	34	54	-61	17.7		-61 214							
	2	34	54	-61	17.7		-61 219							
	2	34	54	-61	17.7	✓	2	32	12	-61 29.7	2	37	26	-60 51.7
	Δα = 364"			Δδ = 19.2			2	38	16	-61 10.5				
	= 43.2 mm			= 21.3 mm										
69	2	35	42	-61	18.0									
	2	35	42	-61	18.0									
	2	35	42	-61	18.0	✓					2	38	14	-60 52.0
70	2	36	54	-60	34.1		-60 207							
	2	36	54	-60	34.1		-60 204							
	2	36	54	-60	34.1	✓	2	37	28	-60 38.9	2	39	34	-60 8.1
	Δα = 296"			Δδ = 31.6			2	32	32	-60 7.3				
	= 37.9 mm			= 30.6 mm										
72	2	54	30	-61	28.1		-61 233							
	2	54	30	-61	28.1		-61 237							
	2	54	30	-61	28.1	✓	2	51	52	-61 32.2	2	56	46	-61 3.7
	Δα = 160"			Δδ = 32.4			2	54	32	-60 59.8				
	= 20.2 mm			= 32.4										
73	2	50	10	-63	50.8		-64 203							
	2	50	10	-63	50.8		-63 199							
	2	50	10	-63	50.8	✓	2	49	30	-63 51.0	2	52	18	-63 26.0
	Δα = 236"			Δδ = 19.4			2	53	46	-63 37.6				
	= 28.8 mm			= 19.1										

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A 6586

Neb.	α	δ	Comp. stars	Positions in 2000 α	δ
77	3 16 57	-61 51.6	-62 469		
	3 16 57	-61 51.7	-61 251		
	3 16 57	-61 51.6 ✓	3 19 57 -62 9.4	3 18 57	-61 29.6
	Δα = 247"	Δδ = 45.1	3 15 50 -61 24.3		
	= 23.8 mm	= 48.8 mm			
78	3 15 18	-61 45.5	-62 266		
	3 15 18	-61 45.5	-61 250		
	3 15 18	-61 45.5 ✓	3 16 4 -61 57.3	3 17 20	-61 23.5
	Δα = 179"	Δδ = 12.7	3 13 5 -61 44.6		
	= 20.2 mm	= 14.4 mm			
80	3 4 31	-63 20.9	-63 212		
	3 4 31	-63 20.8	-63 210		
	3 4 31	-63 20.8 ✓	3 8 31 -63 37.8	3 6 23	-62 57.6
	Δα = 261"	Δδ = 22.4	3 4 10 -63 15.4		
	= 27.6 mm	= 24.6 mm			
82	2 51 25	-60 33.4	-60 224		
	2 51 25	-60 33.4	-60 230		
	2 51 25	-60 33.4 ✓	2 49 17 -60 40.0	2 53 53	-60 8.6
	Δα = 277"	Δδ = 27.1	2 53 54 -60 12.9		
	= 34.9 mm	= 26.1			
83	2 49 48	-60 23.4			
	2 49 48	-60 23.4			
	2 49 48	-60 23.4 ✓		2 52 16	-59 58.6

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H 6586
Neb.

	α	δ	Comp. stars	Positions in 2000 α	δ
a	3 12 15	-63 9.8	-63 212		
	3 12 15	-63 9.8	-63 213		
	3 12 15	-63 9.8 ✓	3 8 31 -63 37.8	3 14 1	-62 47.6
	Δα = 235"	Δδ = 35.4	3 12 26 -63 2.4		
	= 30.0 mm	= 33.1 mm			
84	3 7 59	-61 48.0	-62 261		
	3 7 59	-61 48.0	-61 247		
	3 7 59	-61 48.0 ✓	3 9 15 -62 7.4	3 10 5	-61 25.2
	Δα = 196"	Δδ = 35.3	3 5 59 -61 32.1		
	= 20.4 mm	= 37.5 mm			
c	3 2 2	-63 50.9	-64 224		
	3 2 2	-63 50.9	-63 205		
	3 2 2	-63 50.9 ✓	3 4 42 -64 7.9	3 3 56	-63 27.7
	Δα = 263"	Δδ = 40.0	3 0 19 -63 27.9		
	= 29.6 mm	= 41.8 mm			
d	3 8 29	-63 6.4	-63 212		
	3 8 30	-63 6.4	-62 260		
	3 8 30	-63 6.4 ✓	3 8 31 -63 37.8	3 10 18	-62 44.0
	Δα = 19"	Δδ = 53.8	3 8 12 -62 44.0		
	= 2.3 mm	= 54.4 mm			
h	2 57 33	-62 19.6	-62 248		
	2 57 33	-62 19.6	-62 249		
	2 57 33	-62 19.6 ✓	2 57 11 -62 43.1	2 59 39	-61 55.6
	Δα = 33"	Δδ = 44.3	2 57 44 -61 58.8		
	= 5.9 mm	= 44.6 mm			

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A 6586

neb.	α	δ	Comp. stars	Positions in 2000 α	δ
19b	2 19 17	-65 5.4	-65 178		
	2 19 17	-65 5.4	-65 172		
	2 19 17	-65 5.4	2 25 26 -65 134.2	21 37	-64 38.2
	Δα = 443"	Δδ = 15.5	2 18 3 -64 57.9		
	= 48.0 mm	= 11.3 mm			

A 4179

5	3	25	34	-50	16.3	-50	441				
	3	25	32	-50	16.4	-50	459				
defect: cf. A14269	~~3~~	~~25~~	~~33~~	~~-50~~	~~16.4~~	3	20	10	-50	21.1	
	Δα = 529"		Δδ = 7.9			3	28	57	-50	13.2	
	= 85.0 mm		= 3.9 mm								
10	3	22	20	-50	~~13.8~~						
	3	22	18	-50	13.8						
	3	22	19	-50	13.8	3	25	21	-49	52.5	
11	3	22	34	-50	17.1						
	3	22	33	-50	17.0						
star: cf A14269	~~3~~	~~22~~	~~34~~	~~-50~~	~~17.0~~						
28	3	21	32	-50	14.4						
	3	21	31	-50	14.4						
	3	21	32	-50	14.4	3	24	35	-49	52.9	
29	3	21	12	-50	16.8						
	3	21	11	-50	16.8						
	3	21	12	-50	16.8	3	24	15	-49	55.3	

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H 4179
Neb.

	α			δ		Comp stars				Positions in 2000 α		δ	
8	3	21	0	-49	48.9	-50 441							
vm 3346	3	21	0	-49	49.0	-49 431							
	3	21	0	-49	49.0	3	20	10	-50 21.1	3	24	9	-49 27.4 star
	Δα = 724"			Δδ = 36.1		3	32	14	-49 40.0				
	= 118.8 mm			= 30.0									
~~9~~	3	21	54	-50	6.4								
	3	21	54	-50	6.4								
star: cf A14269	~~3~~	~~21~~	~~54~~	~~-50~~	~~6.4~~								
32	3	20	58	-49	~~58.0~~								star
	3	20	~~58~~	-49	58.0								
	~~3~~	20	58	-49	58.0					3	~~24~~	~~1~~	~~49~~ 36.4
~~22~~	3	27	21	-50	56.9								
	3	27	21	-50	56.9	-51 418							
star: cf. A14269	~~3~~	~~27~~	~~21~~	~~-50~~	~~56.9~~	-50 441							
						3	29	13	-51 9.5				
	Δα = 543"			Δδ = 48.4		3	20	10	-50 21.1				
	= 83.8 mm			= 59.0 mm									
18	3	26	38	-50	45.9								
	3	26	38	~~-50~~	45.9								
	3	~~26~~	38	-50	45.9					3	29	38	-50 25.1
~~17~~	3	25	20	-50	46.5								
	3	25	20	-50	46.5								
star: cf A14269	~~3~~	~~25~~	~~20~~	~~-50~~	~~46.5~~								

Pos
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A 14172 neb.

	α			δ		Comp Stars					Positions in 2000 α		δ	
~~24~~	3	24	55	-50	58.3									
	3	24	55	-50	58.3									
star : cf. A14269 ✓	~~3~~	~~24~~	~~55~~	~~-50~~	~~58.3~~									
~~(15)~~	3	22	51	-50	38.5									
Position already	3	22	51	-50	38.4									
found on A3346 ✓	~~3~~	~~22~~	~~51~~	~~-50~~	~~38.4~~						3	25	53	-50 17.2
~~16~~	3	21	47	-50	33.7									
	3	21	46	-50	33.6									
star : cf. A14269 ✓	~~3~~	~~21~~	~~46~~	~~-50~~	~~33.6~~									
65	3	27	22	-51	34.3			-51	413					
	3	27	22	-51	34.3			-51	418					
✓	3	27	22	-51	34.3	3	25	23	-51	52.6	3	30	18 ✓	-51 13.5 ✓
	Δα = 230"			Δδ = 43.1		3	29	13	-51	9.5				
	= 38.8 mm			= 41.3										
66	3	28	25	-51	~~29.1~~									
	3	28	~~25~~	-51	29.1									
✓	3	28	25	-51	29.1						3	31	21	-51 8.3
a	3	27	~~41~~	-51	~~22.4~~									
	3	27	41	-51	22.4									
star ✓	3	27	41	-51	22.4									

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A4179

Net.

	α			δ		Comp stars	Positions in 2000 α			δ	
✓42	3	22	11	-51	15.0	-51 408					
	3	22	11	-51	14.9	-51 393					
✓	3	22	11	-51	15.0	3 22 27 -51 24.8	3	25	8	-50	54.2
	Δα = 360"			Δδ = 30.3		3 16 27 -50 54.5					
	= 55.9 mm			= 32.7 mm							
✓43	3	20	16	-51	11.2						
	3	20	17	-51	11.1						
✓	3	20	16	-51	11.2		3	23	15	-50	50.0
✓44	3	18	29	-51	5.0						
	3	18	30	-51	5.0						
✓	3	18	30	-51	5.0		3	21	29	-50	43.8
✓45	3	18	17	-51	5.6						
	3	18	17	-51	5.6						
✓	3	18	17	-51	5.6		3	21	16	-50	44.4
✓50	3	18	43	-51	16.4						
	3	18	43	-51	16.5						
✓	3	18	43	-51	16.4		3	21	42	-50	55.2
✓47	3	16	55	-51	8.5						
	3	16	55	-51	8.5						
✓	3	16	55	-51	8.5		3	19	57	-50	46.5

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Neb.	α	δ	Comps. Stars	Positions in 2000 α	δ
141	3 22 36	-51 6.5	-51 408		
	3 22 37	-51 6.5	-50 459		
	3 22 36	-51 6.5	3 22 27 -51 24.8	3 25 33	-50 45.7
	Δα = 390"	Δδ = 71.6	3 28 57 -50 13.2		
	= 66.0 mm	= 69.2 mm			
~~42~~	3 24 51	-51 10.1	-51 408		
	3 27 51	-51 10.1	-51 418		
star: cf. A14269	~~3 24 51~~	~~-51 10.1~~	3 22 27 -51 24.8		
	Δα = 406"	Δδ = 15.3	3 29 13 -51 9.5		
	= 64.9 mm	= 12.5 mm			
~~70~~	3 30 2	-52 20.4	-52 419		
	3 30 12	-52 20.4	-52 416		
	~~3 30 17~~	~~-52 18.6~~	3 31 41 -52 27.4	~~3 32 50~~	~~-52 00.00~~
	Δα = 111"	Δδ = 19.7	3 29 50 -52 7.7		
	= 15.7 mm	= 21.0 mm			
71a	3 21 22	-52 9.3	-52 388		
	3 21 22	-52 9.3	-51 408		
	3 21 22	-52 9.3	3 17 16 -52 23.4	3 24 18	-51 47.7
	Δα = 311"	Δδ = 58.6	3 22 27 -51 24.8		
	= 50.5 mm	= 77.1 mm			
71b	3 22 12	-51 56.0			
	3 22 12	-51 56.0			
	3 22 12	-51 56.0		3 25 10	-51 ~~31.5~~ 35.0

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A 4179
neb.

	α			δ		Comp. Stars				Positions in 2000 α		δ	
82	3	18	58	-51	52.9		-52	388					
	3	18	58	-51	52.9		-51	408					
	3	18	58	-51	52.9	3 17 16	-52	23.4		3	21	57	-51 31.8
						3 22 27	-51	24.8					
80	3	19	17	-51	47.6								
	3	19	17	-51	47.6								
	3	19	17	-51	47.6					3	22	16	-51 26.6
81	3	19	18	-51	51.0								
	3	19	18	-51	51.0								
	3	19	18	-51	51.0					3	22	17	-51 29.4
54	3	17	34	-51	28.8								
	3	17	34	-51	28.8								
star	3	17	34	-51	28.8								
53	3	19	19	-51	32.2								
	3	19	19	-51	32.2								
	3	19	19	-51	32.2					3	22	18	-51 10.6
57	3	21	21	-51	34.3								
	3	21	21	-51	34.2								
	3	21	21	-51	34.2					3	24	20	-51 12.6
58	3	22	12	-51	30.0								
	3	22	12	-51	30.0								
	3	22	12	-51	30.0					3.	25	11	-51 8.4

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H 4179

Neb.		α			δ		Comp. Stars				Positions in 2000 α			δ	
111		3	22	44	-52	15.7		-52 388							
m 14267		3	22	43	-52	15.7		-51 413							
		3	22	44	-52	15.7	3 17 16	-52 23.4			3	25	38	-51	54.4
		Δα = 487"			Δδ = 30.8		3 25 23	-51 52.6							
		= 76.4 mm			= 28.3 mm										
76		3	23	21	-51	52.3		-51 413							
		3	23	21	-51	52.3		-51 408							
		3	23	21	-51	52.3	3 25 23	-51 52.6			3	26	18	-51	31.6
		Δα = 176"			Δδ = 27.8		3 22 27	-51 24.8							
		= 25.9 mm			= 28.8 mm										
~~(116)~~		3	27	20	-52	37.1		-52 415							
Position already found on A3339		3	27	20	-52	37.1		-52 388							
		~~3~~	~~27~~	~~20~~	~~-52~~	~~37.1~~	3 29 13	-52 48.7			3	30	10	-52	16.4
		Δα = 717"			Δδ = 25.3		3 17 16	-52 23.4							
		= 108.3 mm			= 30.4 mm										
~~(1c)~~		3	26	42	-52	39.1									
Position already found on A3346		3	26	42	-52	39.1									
		~~3~~	~~26~~	~~42~~	~~-52~~	~~39.1~~					~~3~~	~~29~~	~~33~~	~~-52~~	~~18.2~~
114		3	24	57	-52	43.7									
Cl. 14272		3	24	57	-52	43.7									
		3	24	57	-52	43.7					3	27	49	-52	22.7
112		3	24	16	-52	33.5									
		3	24	16	-52	33.5									
		3	24	16	-52	33.5					3	27	8	-52	12.5

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Net.	α			δ			Comp. stars					Positions in 2000 α			δ	
226 ✓	3	19	49	-52	38.7		3	29	13	-52	48.7					
	3	19	49	-52	38.7		3	17	16	-52	23.4					
	3	19	49	-52	38.7							3	22	45 ✓	-52	17.1 ✓
74	3	25	52	-52	~~3.5~~					-52	4.8					
	3	25	51	-52	3.5					-51	4.3					
	3	25	52	-52	3.5		3	31	12	-52	8.5	3	~~28~~	~~44~~	~~-51~~	~~42.5~~
	Δα = 349"			Δδ = 15.9			3	25	23	-51	52.6					
	= 40.8 mm			= 18.0 mm												
130	3	26	37	-53	16.8					-53	5.6					
Cl. 14272	3	26	36	-53	16.8					-52	39.1					
	3	26	36	-53	16.8		3	29	10	-53	30.5	3	2~~8~~9	22 ✓	-52	~~55.7~~ 56.0 ✓
	Δα = 669"			Δδ = 76.0			3	18	1	-52	44.5					
	= 98.5 mm			= 51.1 mm												
211	3	25	26	-53	23.2											
Cl. 14272	3	25	26	-53	23.2											
	3	25	26	-53	23.2							3	28	12 ✓	-53	2.~~2~~3 ✓
217	3	23	48	-53	26.9											
Cl. 14272	3	23	47	-53	26.9											
	3	23	48	-53	26.9							3	26	35 ✓	-53	5.8 ✓
220	3	23	51	-53	13.0											
Cl. 14272	3	23	51	-53	13.0											
	3	23	51	-53	13.0							3	26	37 ✓	-52	~~52.0~~ 51.9 ✓

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H 4179

Neb.	α			δ			Comp. Stars	Positions in 2000 α			δ	
135	3	25	6	-53	0.6							
Cl. 14272	3	25	6	-53	0.6							
	3	25	6	-53	0.6			3	27	52	-52	39.6
J 126	3	27	18	-52	54.2							
Cl. 14272	3	27	18	-52	54.2							
	3	27	18	-52	54.2			3	30	8	-52	33.5
230	3	22	22	-52	~~54.3~~							
	3	~~22~~	~~22~~	-52	51.3							
	3	22	22	-52	51.3			~~3~~	~~25~~	~~16~~	~~-52~~	~~30.0~~
229	3	22	36	-52	~~53.9~~							
	3	~~22~~	35	-52	53.9							
	3	22	36	-52	53.9			~~3~~	~~25~~	~~30~~	~~-52~~	~~39.6~~
224	3	20	0	-53	0.2							
Cl. 14269	3	20	0	-53	0.2							
	3	20	0	-53	0.2			3	22	48	-52	38.6
145	3	23	47	-53	50.3		-54 558					
Cl. 14272	3	23	47	-53	50.3		-53 548					
	3	23	47	-53	50.3	3 24 56	-54 9.8	3	26	33	-53	29.8
	Δα = 585"			Δδ = 56.6		3 15 11	-53 13.2					
	= 85.2 mm			= 60.0 mm								
J 151	3	22	59	-53	40.9							
Cl. 14272	3	22	59	-53	41.0							
	3	22	59	-53	41.0			3	25	46	-53	19.7

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30
H 4179

Neb.	α			δ		Comp stars				Positions in 2000 α		δ	
~~155~~	3	20	35	-53	44.4	3	24	56	-54	9.8			
	3	20	35	-53	44.4	3	15	11	-53	13.2			
defect: cf. A14269	~~3~~	~~20~~	~~35~~	~~-53~~	~~44.4~~								
J 198	3	19	13	-53	42.8								
Cl. 14272	3	19	13	-53	42.8							✓	✓
	3	19	13	-53	42.8						3	22 1	-53 21.2
J 200	3	18	31	-53	34.2								
Cl. 14272	3	18	31	-53	34.2							✓	✓
	3	18	31	-53	34.2						3	21 20	-53 12.5
257	3	19	20	-53	24.4								
	3	19	20	-53	24.5								
Two stars	3	19	20	-53	24.4								
✓ 205	3	20	44	-53	29.8								
Cl. 14272	3	20	44	-53	29.9							✓	✓
	3	20	44	-53	29.8						3	23 32	-53 8.2
J 119	3	27	16	-54	3.9			-54	558				
	3	27	16	-54	3.9			-53	576				
D K.	3	27	16	-54	3.9	3	24	56	-54	9.8	3	29 57	-53 43.2
	Δα = 254″ = 40.1 mm			Δδ = 39.3 = 37.5		3	29	10	-53	30.5			
J 138	3	26	22	-53	48.3								
Cl. 14272	3	26	22	-53	48.3							✓	✓
	3	26	22	-53	48.3						3	29 8	-53 27.4

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H 4179

Neb	α	δ	Comp. stars	Positions in 2000 α	Positions in 2000 δ
H	3 29 28	-54 13.4	-54 576		
	3 29 28	-54 13.4	-54 558		
defect: of A14269	~~3 29 28~~	~~-54 13.4~~	3 32 22 -54 15.0		
	Δα = 446"	Δδ = 5.2	3 24 56 -54 9.8		
	= 65.3 mm	= 9.2 mm			
156	3 23 ~~40~~	-54 ~~8.8~~	-54 558		
	3 23 40	~~-54~~ 8.8	-54 556		
star	3 23 40	-54 8.8	3 24 56 -54 9.8		
	Δα = 153"	Δδ = 2.0	3 22 23 -54 7.8	3 24 58.4	-53 48.0
	= 22.2 mm	= 4.0			
157	3 23 11	-54 8.7			
	3 23 11	-54 8.7			
	3 23 11	-54 8.7		3 25 54	-53 47.5
k	3 24 16	-54 ~~45.0~~	-55 534		
	3 24 16	-54 45.0	-54 548		
	~~3 24 16~~	-54 45.0	3 27 44 -55 9.1	3 26 58	-54 24.0
	Δα = 444"	Δδ = 46.9	3 20 20 -54 22.2		
	= 62.6 mm	= 50.9 mm			
171	3 16 48	-54 12.2	-54 538		
	3 16 48	-54 12.2	-54 556		
	3 16 48	-54 12.2	3 15 8 -54 24.2	3 19 33	-53 50.3
	Δα = 435"	Δδ = 16.4	3 22 23 -54 7.8		
	= 74.3 mm	= 18.7 mm			

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#4179

Neb	α	δ	Comp. stars	Positions in 2000 α	δ
177	3 17 6	-54 14.2	3 15 8 -54 24.2		
star	3 17 6	-54 14.2	3 22 23 -54 7.8		
✓	3 17 6	-54 14.2			
✓196	3 18 9	-54 13.0			
	3 18 9	-54 13.0			
✓	3 18 9	-54 13.0		3 20 54 ✓	-53 51.3 ✓
165 ✓	3 20 22	-54 35.8	-55 5 25		
	3 20 22	-54 35.9	-54 5 38		
✓	3 20 22	-54 35.8	3 23 42 -55 14.4	3 23 6 ✓	-54 14.2 ✓
	Δα = 514"	Δδ = 50.2	3 15 8 -54 24.2		
	= 82.6 mm	= 49.9 mm			
✓172	3 16 51	-54 33.6			
on 3339	3 16 50	-54 33.7			
✓	3 16 50	-54 33.6		3 19 35 ✓	-54 11.7 ✓
✓187	3 14 59	-54 11.2	-54 5 38		
	3 14 59	-54 11.2	-53 5 31		
✓	3 14 59	-54 11.2	3 15 8 -54 24.2	3 17 45 ✓	-53 49.2 ✓
	Δα = 472"	Δδ = 34.2	3 7 16 -53 50.0		
	= 60.0 mm	= 38.1 mm			
✓					
188	3 14 45	-54 2.4			
	3 14 45	-54 2.4			
✓	3 14 45	-54 2.4		3 17 31 ✓	-53 40.4 ✓

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A 4179
Neb

	α			δ		Comp. stars					Positions in 2000 α		δ
✓184	3	11	49	-54	18.0	3	15	8	-54	24.2			
	3	11	49	-54	18.0	3	7	16	-53	50.0			
star: of A14272	3	11	49	-54	18.0								
✓													
180	3	10	8	-54	8.6								
	3	10	8	-54	8.5								
7.3	3	10	8	-54	8.6						3	12	56 -53 46.2
✓													
ab	3	11	44	-53	59.7								
	3	11	43	-53	59.7								
4.2	3	11	44	-53	59.7						3	14	39 -53 37.4
✓ 350	3	10	56	-53	55.8								
	3	10	56	-53	55.8								
	3	10	56	-53	55.8						3	13	52 -53 33.4
✓													
11.7 347	3	11	44	-53	43.7			-53	531				
	3	11	44	-53	43.7			-53	548				
	3	11	44	-53	43.7	3	7	16	-53	50.0	3	14	39 -53 21.4
	Δα = 475"			Δδ = 36.8		3	15	11	-53	13.2			
49.2	= 71.3 mm			= 36.4 mm									
✓346	3	11	9	-53	44.7								
	3	11	9	-53	44.7								
	3	11	9	-53	44.7						3	14	5 -53 22.3
40.4 ✓345	3	10	29	-53	48.3								
	3	10	29	-53	48.2								
	3	10	29	-53	48.2						3	13	25 -53 25.8

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H 4179

Neb.	α			δ		Comp. stars					Positions in 2000				
											α			δ	
344 ✓	3	8	36	-53	46.5	3	7	16	-53	00.0					
	3	8	36	-53	46.4	3	15	11	-53	13.2					
✓	3	8	36	-53	46.4						3	11	32 ✓	-53	24.0 ✓
340 ✓	3	8	59	-53	32.6										
	3	8	59	-53	32.6										
✓	3	8	59	-53	32.6						3	11	55 ✓	-53	10.2 ✓
336 ✓	3	8	29	-53	23.0										
	3	8	29	-53	23.0										
✓	3	8	29	-53	23.0						3	11	25 ✓	-53	0.6 ✓
339 ✓	3	9	3	-53	18.6										
	3	9	3	-53	18.6										
	3	9	3	-53	18.6	omitted from precession check O.K.					3	11	59 ✓	-52	56.2 ✓
	2	56			224										
	3	11	59		562										
335 ✓	3	7	56	-53	22.9										
	3	7	56	-53	22.9										
✓	3	7	56	-53	22.9						3	10	52 ✓	-53	0.1 ✓
341 ✓	3	7	33	-53	34.8										
	3	7	33	-53	34.8										
✓	3	7	33	-53	34.8						3	10	29 ✓	-53	12.0 ✓
aa	3	8	0	-55	2.6	-55 494									
	3	8	0	-55	2.6	-54 538									
2 stars : cf #14272 ✓	~~3~~	~~8~~	~~0~~	~~-55~~	~~2.6~~	3	6	55	-55	24.4					
	Δα = 493"			Δδ = 60.2		3	15	8	-54	24.2					
	= 68.0 mm			= 54.0 mm											

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A 4179

Neb.	α			δ		Comp. stars				Positions in 2000				
										α			δ	
156	3	7	28	-54	28.5	3	6	55	-55	24.4				
	3	7	28	-54	28.6	3	15	8	-54	24.2				
	3	7	28	-54	28.6						3	10	18	-54	5.8
183	3	9	7	-54	42.7										
	3	9	7	-54	42.7										
~~star of 11 14272~~	~~3~~	~~9~~	~~7~~	~~-54~~	~~42.7~~										
182	3	9	0	-54	37.5										
	3	9	0	-54	37.6										
~~defect of 11 14272~~	~~3~~	~~9~~	~~0~~	~~-54~~	~~37.6~~										
181	3	10	11	-54	28.5										
	3	10	12	-54	28.6										
	3	10	12	-54	28.6						3	13	0	-54	6.2
180	3	11	33	-54	~~35.4~~										
	3	11	33	-54	35.4										
	3	11	33	-54	35.4						3	14	21	-54	13.0
ac	3	6	32	-54	55.6				-55	494	Nebulae under comp. stars 55 494 and 54 496, and also 54 496 and 54 518 have been accepted on my own judgment, as no long exposure plates cover this region.				
	3	6	32	-54	55.5				-54	496					
2 stars	3	6	32	-54	55.6	3	6	55	-55	24.4					
	Δα = 565"			Δδ = 45.3		2	57	30	-54	39.1					
	= 85.8 mm			= 40.0											
ac	3	4	38	-54	50.0										
	3	4	38	-54	50.0										
	3	4	38	-54	50.0						3	7	~~25~~ 30	-54	28.0

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A 4179

Neb.	α			δ			Comp. Stars α			δ		Positions in 2000 α			δ	
357 ✓	3	5	21	-54	48.9		3	6	55	-55	24.4					
	3	5	21	-54	48.8		2	57	30	-54	39.1					
	3	5	21	-54	48.8							3	8	13	-54	25.8
363	2	59	37	-54	28.8					-54	496					
	2	59	37	-54	28.8					-54	318					
star: cf A14272	~~2~~	~~59~~	~~37~~	~~-54~~	~~28.8~~		2	57	30	-54	39.1					
	Δα = 499"			Δδ = 21.3			3	5	49	-54	17.8					
	= 81.5 mm			= 23.8 mm												
362	3	1	4	-54	36.4											
	3	1	5	-54	36.4											
	3	1	4	-54	36.4							3	4	00	-54	12.8
393	3	1	4	-54	25.4											
	3	1	5	-54	25.4											
star: cf A14272	~~3~~	~~1~~	~~4~~	~~-54~~	~~25.4~~											
394	3	2	2	-54	26.4											
	3	2	3	-54	26.4											
star: cf A14272	~~3~~	~~2~~	~~2~~	~~-54~~	~~26.4~~											
360	3	3	50	-54	26.7											
	3	3	51	-54	26.7											
	3	3	50	-54	26.7							3	6	43	-54	3.5
359	3	4	0	-54	33.1											
	3	4	1	-54	33.1											
	3	4	0	-54	33.1							3	6	53	-54	9.9

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1930pfae.proj.232em

A 4179

Net

	α	δ	Comp. stars	Positions in 2000 α	δ
361	3 4 49	-54 26.0			
✓	3 4 50	-54 26.0			
	✓ 3 4 50	-54 26.0		3 7 42	-54 3.0
392	3 5 8	-54 23.3			
✓	3 5 8	-54 23.3			
	✓ 3 5 8	-54 23.3		3 8 00	-54 0.3
✓ 355	3 5 50	-54 26.1	-54 525	accepted on own judgment	
	3 5 50	-54 26.1	-54 518		
	✓ 3 5 50	-54 26.1	3 9 57 -54 44.3	M.E.M.	
	Δα = 248"	Δδ = 26.5	3 5 49 -54 17.8	3 8 42	-54 3.1
	= 36.2 mm	= 36.7 mm			
✓ 354	3 6 39	-54 13.4	-54 518	accepted on own judgment	
	3 6 39	-54 13.4	-53 531		
	✓ 3 6 39	-54 13.4	3 5 49 -54 17.8	M.E.M.	
	Δα = 87"	Δδ = 27.8	3 7 16 -53 50.0	3 9 30	-53 50.6
	= 12.6 mm	= 28.2 mm			
357	3 7 29	-53 57.4	-54 525	accepted on own judgment: M.E.M.	
	3 7 29	-53 57.4	-53 531		
star of A 14272	✓ ~~3 7 29~~	~~-53 57.4~~	3 9 57 -54 44.3		
	Δα = 161"	Δδ = 54.3	3 7 16 -53 50.0		
	= 23.9 mm	= 64.7 mm			

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A 4179

Neb.		α			δ		Comp. Stars			Positions in 2000				
										α accepted on own judgment			δ	
350 a	3	5	24	-53	57.6		-54	518						
	3	5	24	-53	57.6		-53	509						
✓	3	5	24	-53	57.6	3	5	49	-54 17.8	3	8	22	-53	34.6
	Δα = 409"			Δδ = 34.8		2	59	0	-53 43.0					
	= 61.7 mm			= 325 mm										
371	3	3	30	-54	10.4									
	3	3	30	-54	10.4									
star : cf. A 14272 ✓	~~3~~	~~3~~	~~30~~	~~-54~~	~~10.4~~									
373 ✓	3	2	51	-53	58.9									
	3	2	50	-53	58.9									
✓	3	2	50	-53	58.9					3	5	49	-53	35.7
374 ✓	3	2	43	-53	56.0									
	3	2	42	-53	56.0									
✓	3	2	42	-53	56.0					3	5	41	-53	32.8
✓ 372	3	2	38	-53	58.7									
	3	2	37	-53	58.7									
✓	3	2	38	-53	58.7					3	5	37	-53	35.5
394	3	0	50	-53	~~58.7~~									
	3	0	~~50~~	-53	58.7									
✓	~~3~~	0	50	-53	58.7					~~3~~	~~3~~	~~50~~	~~-53~~	~~35.1~~ 2 st
369	3	0	35	-54	12.4									
	3	0	34	-54	12.4									
star : cf A 14272 ✓	~~3~~	~~0~~	~~34~~	~~-54~~	~~12.4~~									

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A4179
neb.

	α			δ		Comp. stars				Positions in 2000 α		δ	
395	3	0	7	-53	58.9	3	5	49	-54	17.8			
	3	0	6	-53	58.9	2	59	0	-53	43.0			
	~~3~~	0	6	-53	58.9						~~3~~	~~3~~	~~6~~	~~53~~	~~36.3~~
367	2	59	47	-54	15.0										
	2	59	47	-54	15.0										
	2	59	47	-54	15.0						3	2	43	-53	51.4
368	2	59	30	-54	10.4										
	2	59	29	-54	10.4										
	2	59	30	-54	10.4						3	2	26	-53	46.8
381	2	59	17	-53	44.4										
	2	59	16	-53	44.4										
	2	59	16	-53	44.4						3	2	16	-53	20.8
382	2	59	12	-53	37.3		-53	509			Accepted on own judgment				
Two stars -	2	59	12	-53	37.3		-53	535							
	2	59	12	-53	37.3	2	59	0	-53	43.6					
	Δα = 550"			Δδ = 35.7		3	8	10	-53	7.3					
	= 76.0 mm			= 36.9 mm											
383	2	59	6	-53	34.6										
	2	59	6	-53	34.6										
2 stars: cf. H14272	~~2~~	~~59~~	~~6~~	~~-53~~	~~34.6~~										
384	2	59	42	-53	36.3										
	2	59	42	-53	36.3										
	2	59	42	-53	36.3						3	2	42	-53	12.7

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40
H 4179

Neb.	α		δ		Comp. Stars				Positions in 2000 α	δ
✓ 385	2	59	15	-53	25.3	2	59	0	-53 43.0	
	2	59	15	-53	25.3	3	8	10	-53 7.3	
neb? of H 14272	2	59	15	-53	25.3					3 2 15 ✓ -53 1.7 ✓
✓ 388	2	59	31	-53	11.3					
	2	59	31	-53	11.3					
	2	59	31	-53	11.3					3 2 31 ✓ -52 47.7 ✓
386	3	0	40	-53	23.7					
	3	0	40	-53	23.7					
	3	0	40	-53	23.7					3 3 40 -53 0.1
ab	3	1	3	-53	21.0					
	3	1	3	-53	21.0					
	3	1	3	-53	21.0					3 4 03 -52 57.4
378	3	3	13	-53	33.0					
	3	3	13	-53	33.0					
defect: of H 14272	3	3	13	-53	33.6					
331	3	3	35	-53	22.1					
	3	3	35	-53	22.1					
	3	3	35	-53	22.1					3 6 34 ✓ -52 58.9 ✓
329	3	3	7	-53	9.8					
star	3	3	7	-53	9.8					
	3	3	7	-53	9.8					

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1936plate.proj.252cm

A 4179

Neb	α			δ		Comp. Stars					Positions in 2000				
											α			δ	
330	3	4	11	-53	10.8	2	59	0	-53	43.0					
	3	4	11	-53	10.8	3	8	10	-53	7.3					
	3	4	11	-53	10.8						3	7	9	-52	47.6
332	3	4	56	-53	22.1										
	3	4	56	-53	22.1										
	3	4	56	-53	22.1						3	7	54	-52	59.1
377	3	4	26	-53	34.5										
	3	4	26	-53	34.5										
	3	4	26	-53	34.5						3	7	24	-53	11.5
376	3	5	2	-53	33.2										
	3	5	2	-53	33.2										
	3	5	2	-53	33.2						3	8	00	-53	10.2
342	3	6	19	-53	28.8										
	3	6	19	-53	28.8										
	3	6	19	-53	28.8						3	9	17	-53	6.0
333	3	7	10	-53	20.8										
	3	7	10	-53	20.8										
	3	7	10	-53	20.8						3	10	8	-52	58.0
334	3	8	1	-53	22.1										
	3	8	1	-53	22.1										
	3	8	1	-53	22.1						3	10	58	-52	59.3

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#4179

NEB.	α			δ			COMP. STARS						Positions in 2000 α	δ
343	3	7	46	-53	41.3		2	59	6	-53	43.0			
	3	7	46	-53	41.3		3	8	10	-53	7.3			
	3	7	46	-53	41.3								3 10 44	-53 18.5
ak	2	57	23	-54	7.7					-54	496		accepted on own judgement	
	2	57	23	-54	7.6					-53	499			
star: cf A14272	2	57	23	-54	7.6		2	57	30	-54	39.1			
	Δα = 290"			Δδ = 68.9			2	52	40	-53	30.2			
	= 36.2 mm			= 68.3 mm										
ah	2	53	42	-54	9.2									
	2	53	42	-54	9.1									
star: cf A14272	2	53	42	-54	9.2									
364	2	54	50	-53	36.7									
	2	54	50	-53	36.7									
star: cf A14272	2	54	50	-53	36.7									
ie	2	54	53	-53	6.1					-53	499			
	2	54	53	-53	6.1					-52	352			
	2	54	53	-53	6.1		2	52	40	-53	30.2		2 57 57	-52 41.9
	Δα = 259"			Δδ = 60.1			2	56	59	-52	30.1			
	= 36.5 mm			= 63.7 mm										
299	2	55	15	-53	7.6									
	2	55	15	-53	7.6									
	2	55	15	-53	7.6								2 58 17	-52 43.4
300	2	56	38	-53	9.0									
	2	56	38	-53	9.0									
star: cf A14269	2	56	38	-53	9.0									

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A 4179

NEB	α		δ		Comp. Stars	Positions 1872.000 α	δ
✓ t	2	55	2	-52 55.8			
	2	55	2	-52 55.9		3 8 9 ✓	✓
	2	55	2	-52 55.8		2 ~~59~~ 0	-52 31.8
389	2	58	41	-53 17.9	-53 509	accepted on own judgment	
	2	58	41	-53 17.9	-52 352		
star: cf A14269	~~2~~	~~58~~	~~41~~	~~-53~~ ~~17.9~~	2 59 0 -53 43.0		mean
	Δα = 121"		Δδ = 72.9		2 56 59 -52 30.1		
	= 20.9 mm		= 73.8 mm				
✓ 390	2	58	31	-53 15.8			
	2	58	31	-53 15.7		✓	✓
	2	58	31	-53 15.8		3 1 32	-52 51.8
391	2	58	14	-53 15.2			
	2	58	14	-53 15.2			
star: cf A14272	~~2~~	~~58~~	~~14~~	~~-53~~ ~~15.2~~			
301	2	57	2	-53 3.8			
	2	57	2	-53 3.8			
star: cf A14272	~~2~~	~~57~~	~~2~~	~~-53~~ ~~3.8~~			
396	2	58	52	-52 57.0			
	2	58	52	-52 57.0			
star: cf A14272	~~2~~	~~58~~	~~52~~	~~-52~~ ~~57.0~~			
✓ 397	2	58	43	-52 43.2			
	2	58	43	-52 43.2			
star: cf A14269	~~2~~	~~58~~	~~43~~	~~-52~~ ~~43.2~~			

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44
H 4179

NEB.	α	δ	COMP. STARS	Positions in 2000 α	δ
✓ 302	2 58 31	-52 42.4	2 59 0 -53 43.0		
	2 58 31	-52 42.3	2 56 59 -52 30.1		
✓	2 58 31	-52 42.3		3 1 37 ✓	-52 ✓ 18.6
298	2 58 2	-52 32.2			
	2 58 2	-52 32.2			
star of H 4272 ✓	~~2 58 2~~	~~-52 32.2~~			
w	3 0 11	-52 54.8	-53 515		
	3 0 11	-52 54.8	-52 352	~~3 3 17~~	~~-52 31.0~~
	Δα = 289"	Δδ = 26.8	3 1 48 -52 56.9		
	= 44.8 mm	= 26.5 mm	2 56 59 -52 30.1		
✓	3 0 11	-52 54.8			
x	3 0 57	-52 50.9			
	3 0 57	-52 50.9			
star ✓	3 0 57	-52 50.9			
304	2 59 25	-52 47.8			
	2 59 25	-52 47.8			
2 stars of H 4272	~~2 59 25~~	~~-52 47.8~~			
✓ 326	3 7 49	-52 58.7	-53 535		
	3 7 48	-52 58.6	-51 357		
✓	3 7 48	-52 58.6	3 8 10 -53 7.3	3 10 48 ✓	-52 ✓ 35.8
	Δα = 459"	Δδ = 79.3	3 0 31 -51 48.6		
	= 64.2 mm	= 79.5 mm			

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A 4179

NEB.	α			δ		Comp. Stars					Positions in 2000 α			δ	
328	3	4	58	−53	5.1	3	8	10	−53	7.3					
	3	4	57	−53	5.1	3	0	31	−51	46.0					
	3	4	58	−53	5.1						3	7	36	−52	42.1
327	3	4	50	−52	42.7										
	3	4	49	−52	42.6										
	3	4	50	−52	42.6						3	7	53	−52	19.4
305	3	2	50	−52	44.5										
	3	2	50	−52	44.5										
	3	2	50	−52	44.5						3	5	52	−52	21.3
306	3	2	52	−52	36.3										
	3	2	52	−52	36.4										
	3	2	52	−52	36.4						3	5	54	−52	12.9 ~~13.2~~
307	3	2	12	−52	25.2										
	3	2	12	−52	25.2										
	3	2	12	−52	25.2						3	5	14	−52	1.7 ~~2.1~~
308	3	2	28	−52	24.1										
	3	2	27	−52	24.1										
	3	2	28	−52	24.1						3	5	30	−52	0.6
316	3	4	31	−52	27.8										
	3	4	30	−52	27.8										
	3	4	30	−52	27.8						3	7	33	−52	4.1

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H 4179

NEB.	α			δ		Comp. Stars					Positions in 2080 α		δ
315	3	4	22	−52	22.9	3	8	10	−53	73			
	3	4	21	−52	22.9	3	0	31	−51	48.0			
defect: cf. #14272	~~3~~	~~4~~	~~22~~	~~−52~~	~~22.9~~								
✓317	3	5	33	−52	24.1								
	3	5	33	−52	24.1								
	3	5	33	−52	24.1						3	8	37 −52 ~~0.8~~ 1.3
318	3	6	~~18~~	−52	~~19.1~~								
defect	3	6	17	~~−52~~	19.1								
	3	6	18	−52	19.1								
✓398	3	5	41	−52	8.4								
	3	5	40	−52	8.4								
	3	5	40	−52	8.4						3	8	44 −52 45.6
✓323	3	7	20	−52	1.9								
	3	7	20	−52	2.0								
	3	7	20	−52	2.0						3	10	20 −51 39.2
✓324	3	8	9	−52	1.9								
	3	8	8	−52	2.0								
	3	8	8	−52	2.0						3	11	8 −51 39.2
✓322	3	6	36	−51	58.8								
	3	6	35	−51	58.9								
	3	6	36	−51	58.8						3	9	41 −51 36.0

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A 4179

NEB.	α			δ		COMP. STARS					POSITIONS IN 2000 α			δ	
311	3	0	57	-52	20.2	2	8	10	-53	7.3					
	3	0	57	-52	20.2	3	0	31	-51	48.0					
star: cf A 14272	~~3~~	~~0~~	~~57~~	~~-52~~	~~20.2~~										
312	3	1	8	-52	10.9										
	3	1	7	-52	10.9										
	3	1	8	-52	10.9						3	4	14	-51	~~46.9~~ 47.4
309	2	59	40	-52	24.8			-52	352						
	2	59	41	-52	24.9			-51	357						
defect	2	59	40	-52	24.8	2	56	59	-52	30.1					
	Δα = 21.2"			Δδ = 42.1		3	0	31	-51	48.0					
	= 32.7 mm			= 42.4 mm											
310	3	0	5	-52	21.6										
	3	0	6	-52	21.6										
	3	0	6	-52	21.6						3	3	14	-51	~~57.6~~ 58.1
295	2	58	54	-52	11.8										
	2	58	55	-52	11.8										
	2	58	54	-52	11.8						3	2	2	-51	~~47.8~~ 48.2
293	3	0	0	-52	7.1										
	3	0	1	-52	7.1										
	3	0	0	-52	7.1						3	3	8	-51	43.6
294	2	59	40	-51	56.4										
	2	59	41	-51	56.4										
	2	59	40	-51	56.4						3	2	54	-51	32.0

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A 4179

NEB.	α			δ		COMP. STARS					Positions in 2000 α		δ	
291	2	58	30	-51	57.7	2	56	59	-52	30.1				
	2	58	31	-51	57.7	3	0	31	-51	48.0				
defect	2	58	30	-51	57.7									
299	2	59	20	-51	51.1									
	2	59	21	-51	51.2									
defect: cf A14272	~~2~~	~~59~~	~~20~~	~~-51~~	~~51.2~~									
321	3	0	31	-51	43.2				-51	35.7				
	3	0	31	-51	43.2				-51	35.2				
	3	0	31	-51	43.2	3	0	31	-51	48.0	3	3	45 -51	18.8
	Δα = 2.48"			Δδ = 51.8		2	56	23	-50	56.2				
	= 51.7 mm			= 50.7										
284	2	59	25	-51	41.9									
	2	59	25	-51	41.9									
	2	59	25	-51	41.9						3	2	39 -51	17.5
288	2	59	15	-51	42.8									
	2	59	15	-51	42.8									
neb? cf A14272	2	59	15	-51	42.8						3	2	29 -51	18.4
285	2	59	48	-51	28.7									
	2	59	48	-51	28.8									
	2	59	48	-51	28.8						3	3	2 -51	4.4
281	2	58	51	-51	11.2									
	2	58	51	-51	11.1									
star: cf. A14272	~~2~~	~~58~~	~~51~~	~~-51~~	~~11.2~~									

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A 4179

NEB	α			δ		COMP. STARS					POSITIONS in 2000 α		δ
r	2	58	35	-51	13.8	3	0	31	-51	48.0			
	2	58	35	-51	13.8	2	56	23	-50	56.2			
~~star: cf. A14272~~	~~2~~	~~58~~	~~35~~	~~-51~~	~~13.8~~								
✓284	2	58	5	-51	39.8								
	2	58	4	-51	39.8								
	2	58	4	-51	39.8						3	1 18	-51 15.4
✓283	2	57	54	-51	37.9								
	2	57	54	-51	37.8								
8.8	2	57	54	-51	37.8						3	1	6 -51 13.4
✓282	2	56	57	-51	26.5								
	2	56	57	-51	26.4								
	2	56	57	-51	26.4						3	00	10 -51 2.0
7.5 ✓410	3	1	16	-51	38.0				-51	35.7			
	3	1	16	-51	38.0				-51	36.9			
	3	1	16	-51	38.0	3	0	31	-51	48.0	3	4	25 -51 14.4
	Δα = 172"			Δδ = 525		3	3	23	-50	55.5			
8.4	= 24.0 mm			= 53.7 mm									
286	3	1	34	-51	27.2								
	3	1	34	-51	27.1								
4.4 ~~defect: cf. A14272~~	~~3~~	~~1~~	~~34~~	~~-51~~	~~27.2~~								
✓319	3	2	46	-51	32.5								
	3	2	46	-51	32.5								
	3	2	46	-51	32.5						3	~~4~~ 5 ~~21~~ 52	-51 ~~15.2~~ 9.3

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A 4179

NEB.

	α			δ		Comp. Stars				Positions in 2010				
										α			δ	
254	3	2	42	-51	2.2	3	0	31	-51	48.0				
	3	2	42	-51	2.2	3	3	23	-50	55.5				
star of A 14272	3	2	42	-51	2.2									
280	3	5	36	-51	25.0				-51	38.5				
	3	5	36	-51	25.0				-51	36.9				
	3	5	36	-51	25.0	3	10	24	-51	42.8	3	8	39	-51 2.6
	Δα = 421"			Δδ = 47.3		3	3	23	-50	55.5				
	= 66.6 mm			= 47.5 mm										
255	3	5	53	-50	57.2									
	3	5	53	-50	57.2									
defect star	3	5	53	-50	57.2									
253	3	2	47	-50	22.3				-51	36.9				
	3	2	47	-50	22.3				-50	40.7				
	3	2	47	-50	22.3	3	3	23	-50	55.5	3	5	59	-49 58.7
	Δα = 235"			Δδ = 40.2		2	59	28	-50	15.3				
	= 38.8 mm			= 39.4										
401	3	8	22	-49	56.2				-50	41.8				
	3	8	22	-49	56.2				-49	39.6				
	3	8	22	-49	56.2	3	7	46	-50	24.6	3	11	34	-49 33.4
	Δα = 136"			Δδ = 42.5		3	10	2	-49	42.1				
	= 21.8 mm			= 23.2 mm										

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A 4179

NEB.	α	δ	Comp. Stars	Positions 2000 α	δ
99	3 10 11	-52 40.0	-53 535		
	3 10 11	-52 40.0	-52 481		
	3 10 11	-52 40.0	3 8 10 -53 7.3	3 13 11	-52 17.2
	Δα = 382"	Δδ = 49.7	3 14 32 -52 17.6		
	= 64.0	= 50.3			
268	3 10 35	-51 31.5	-51 385		
	3 10 35	-51 31.5	-51 393		
	3 10 35	-51 31.5	3 10 24 -51 42.8	3 13 38	-51 9.1
	Δα = 363"	Δδ = 48.3	3 16 27 -50 54.5		
	= 57.9 mm	= 47.9 mm			
269	3 11 2	-51 31.8			
	3 11 2	-51 31.8			
	3 11 2	-51 31.8		3 14 5	-51 9.4
271 a	3 13 27	-51 16.7			
	3 13 27	-51 16.7			
	3 13 27	-51 16.7		3 16 29	-50 54.6
238	3 14 5 7	-50 25.0	-51 393		
	3 14 5 7	-50 25.0	-50 439		
	3 14 5 38	-50 23.0	3 16 27 -50 54.5	3 18 2	-50 3.0
	Δα = 193"	Δδ = 38.3'	3 14 14 -50 16.2		
	= 21.9 mm	= 35.0 mm			
39	3 16 15	-50 18.1			
	3 16 15	-50 18.1			
	3 16 22	-50 16.3		3 19 21	-49 55.9

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H 4179

NEB.	α			δ		COMP. STARS			Positions in 2000 α		δ	
J 404	3	9	19	-50	47.1	-50 414						
	3	9	19	-50	47.5	-50 435						
✓	3	~~9~~	~~19~~ 16	-50	~~47.1~~ ~~58.5~~	3 5 1	-50	48.8	3	12	28	-50 24.3
						3 14 14	-50	16.2				
J 403	3	8	35	-50	26.8	Δα = 553"		Δδ = 32.6'				
	3	8	36	-50	26.8	= 102.7 mm		= 37.0 mm				
✓	3	~~8~~	~~36~~ 21	-50	~~26.8~~ ~~27.2~~				3	11	46	-50 3.8
J 402	3	8	4	-50	9.3							
	3	8	4	-50	9.3							
✓	3	~~8~~	~~4~~ 12	-50	~~9.3~~ ~~7.2~~				3	11	14	-50 46.3
102	3	14	30	-52	58.8	-53 348						
	3	14	30	-52	58.8	-52 378						
Star ✓	3	14	30	-52	58.8	3 15 11	-53	13.2				
	Δα = 123"			Δδ = 26.5		3 13 8	-52	46.7				
	= 20.8 mm			= 25.7 mm								
✓ 103	3	15	3	-52	45.4	-52 378						
	3	15	3	-52	45.4	-52 388						
✓	3	15	3	-52	45.4	3 13 8	-52	46.7	3	18	1	-52 23.2
	Δα = 248"			Δδ = 23.9		3 17 16	-52	23.4				
	= 41.1 mm			= 24.0 mm								
85	3	17	2	-52	~~4.3~~	-52 388						
	3	17	2	-52	4.4	-51 385						
✓	~~3~~	17	2	-52	4.4	3 17 16	-52	23.4	3	~~19~~	39	-51 42.1
	Δα = 412"			Δδ = 40.6		3 10 24	-51	42.8				
	= 69.2 mm			= 42.0 mm								

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A 4179

NEB	α			δ		Comp. Stars				Positions in 2000				
										α			δ	
87	3	16	24	-51	52.1									
	3	16	24	-51	52.2									
	3	16	24	-51	52.2					3	19	25	-51	30.3
273	3	14	22	-51	23.8	-51	385							
	3	14	22	-51	23.8	-51	393							
	3	14	22	-51	23.8	3	10	24	-51 42.8	3	17	23	-51	1.8
	Δα = 363"			Δδ = 48.3		3	16	27	-50 54.5					
	= 57.9 mm			= 47.8 mm										
271b	3	15	1	-51	27.7									
	3	15	1	-51	27.6									
	3	15	1	-51	27.6					3	18	2	-51	5.6
215	3	15	30	-51	30.5									
	3	15	30	-51	30.5									
	3	15	30	-51	30.5					3	18	31	-51	8.5
35	3	18	50	-50	7.0	-50	430							
	3	18	50	-50	11.0	-50	441							
	3	18	50	-50	9.0	3	14	14	-50 16.2	3	21	53	-49	47.3
	Δα = 356"			Δδ = 4.9'		3	20	18	-50 21.1					
	= 58.0 mm			= 0.6 mm										
36	3	18	26	-49	53.0									
	3	18	26	-49	53.0									
	3	18	26	-49	53.0					3	21	35	-49	31.4
37	3	25	29	-49	54.5									
star	3	25	29	-49	54.4									
	3	25	29	-49	54.4									

cont. Bk. 4 p. 91

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H 5731
NEB.

H 5.731

	α			δ		COMP. STARS				
k	5	21	12	-3	51.0		-4	1121		
	5	21	12	-3	51.0		-3	1124		
	5	21	12	-3	51.0	5	20	35	-3	58.1
	Δα = 351"			Δδ = 22.3'		5	26	26	-3	35.8
	= 49.7 mm			= 56.8 mm						
37	5	21	46	-3	53.5					
	5	21	46	-3	53.5					
	5	21	46	-3	53.5					
33	5	26	5	-3	38.9					
	5	26	5	-3	38.9					
	5	26	5	-3	38.9					
t	5	22	1	-5	18.8		-5	1261		
	5	22	2	-5	18.8		-5	1250		
	5	22	2	-5	18.8	5	23	16	-5	54.1
	Δα = 118"			Δδ = 48.9'		5	21	18	-5	5.2
	= 74.4 mm			= 53.0 mm						
47	5	23	14	-5	25.9					
	5	23	14	-5	25.8					
	5	23	14	-5	25.8					
45	5	20	21	-6	12.4		-6	1171		
	5	20	22	-6	12.4		-5	1261		
	5	20	22	-6	12.4	5	20	12	-6	38.7
	Δα = 184"			Δδ = 44.6'		5	23	16	-5	54.1
	= 45.7 mm			= 45.1 mm						

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H 5-731

NEB.	α	δ	COMP. STARS	POSITIONS IN 2000 α	POSITIONS IN 2000 δ
w	5 22 18	-6 12.1			
	5 22 18	-6 12.1			
	5 22 18	-6 12.1			
38	5 23 58	-6 7.6	-6 1193		
	5 23 58	-6 7.6	-5 1261		
	5 23 58	-6 7.6	5 24 18 -6 13.8		
	Δα = 62"	Δδ = 19.7'	5 23 16 -5 54.1		
	= 16.2 mm	= 19.0 mm			
36	5 28 3	-7 51.3	-8 1153		
U.K.	5 28 3	-7 51.3	-7 1117		
Transferred to #2119. This position retained. Class. Di Dp.	5 28 3	-7 51.3	5 26 51 -7 58.2	5 32 52	-7 55.9
	Δα = 126"	Δδ = 30.3'	5 28 57 -7 27.9		
	= 31.3 mm	= 30.0			
h	5 28 43	-3 35.4	-3 1141		
	5 28 43	-3 35.4	-3 1136		
	5 28 43	-3 35.4	5 29 41 -3 44.5		
	Δα = 62"	Δδ = 12.9	5 28 39 -3 32.2		
	= 16.0 mm	= 13.1 mm			
12	5 37 52	-5 52.1	-6 1288		
	5 37 52	-5 52.0	-5 1375		
	5 37 52	-5 52.0	5 37 20 -6 7.6		
	Δα = 108"	Δδ = 20.2'	5 39 8 -5 49.4		
	= 27.3 mm	= 20.1 mm			

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1930phae.proj.23rem

A5731

Neb.	α			δ		Comp. Stars	Positions in 2000 α	δ
50	5	42	19	-5	0.3	-5 1401		
Star	5	42	19	-5	0.3	-4 1232		
	5	42	19	-5	0.3	5 43 0 -5 4.0		
	Δα = 172"			Δδ = 37.5'		5 40 8 -4 26.5		
	= 42.6 mm			= 38.8 mm				
49	5	41	45	-6	31.9	-6 1300		
	5	41	45	-6	31.9	-6 1311		
	5	41	45	-6	31.9	5 39 26 -6 39.6	5 46 37	-6 29.2
	Δα = 187"			Δδ = 15.0'		5 42 33 -6 24.6		
	= 46.8 mm			= 15.2 mm				

#

A 6657

Neb.	α			δ		Comp. Stars				
1	11	8	35	-58	13.7	-58 3389				
	11	8	35	-58	13.6	-57 4394				
	11	8	35	-58	13.6	11 11 26 -58 37.2	11	12	55	-58 46.4
	Δα = 263"			Δδ = 41.4'		11 7 3 -57 55.8				
	= 28.0 mm			= 45.5 mm						

#

A7277

Neb.	α			δ		Comp. Stars				
a	13	17	28	-61	20.9	-61 3677				
	13	17	28	-61	20.9	-61 3649				
	3	17	28	-61	20.9	13 18 24 -61 27.9	13	19	28	-60 59.1
	Δα = 89"			Δδ = 13.0'		13 16 55 -61 14.9				
	= 9.5 mm			= 14.4 mm						

#

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A 6808

NEB.	α			δ			COMP. STARS				Positions in 2000 α		δ	
a	17	24	26	-19	30.9		-19	46 40						
	17	24	26	-19	31.0		-19	46 46						
	17	24	26	-19	31.0	17	22 13	-19	45.6	17	30	20	-19	35.7
	Δα = 152"			Δδ = 18.3'		17	24 45	-19	27.3					
	= 36.1 mm			= 18.9 mm										

A 8324

NEB	α			δ			COMP. STARS			
11	13	47	29	-46	45.7		-46	8924		
	13	47	29	-46	45.7		-46	8943		
	13	47	29	-46	45.7	13	46 43	-46	50.8	
	Δα = 133"			Δδ = 10.7'		13	48 56	-46	40.1	
	= 23.0 mm			= 10.3 mm						
10	13	47	53	-46	46.2					
	13	47	53	-46	46.2					
	13	47	53	-46	46.2					
9	13	51	47	-46	35.3		-46	8987		
	13	51	47	-46	35.3		-46	8973		
defect?	13	51	47	-46	35.3	13	52 20	-46	54.7	13 58 00 -47 4.8
	Δα = 55"			Δδ = 23.3'		13	51 25	-46	31.4	
	= 9.1 mm			= 23.8 mm						
b	13	53	29	-46	47.8		-46	8987		
defect	13	53	29	-46	47.8		-46	8999		
	13	53	29	-46	47.8	13	52 20	-46	54.7	
	Δα = 82"			Δδ = 10.1'		13	53 42	-46	44.6	
	= 14.2 mm			= 10.1 mm						

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1930phae.proj.23:COM

A8374

NEB.	α	δ	Comp. Stars	Positions in 2000 α	δ
16	13 52 58	-41 58.6	-41 8321	✓	✓
	13 52 58	-41 58.6	-41 8343		
	13 52 58	-41 58.6	13 52 17 -42 5.6	19 59 02	-42 28.2
	Δα = 62″	Δδ = 11.4′	13 53 19 -41 54.2		
	= 11.6 mm	= 12.3 mm			
2	13 57 41	-43 28.2	-43 8755		
	13 57 41	-43 28.2	-43 8769	✓	✓
	13 57 41	-43 28.2	13 56 47 -43 42.4	14 3 50	-43 57.4
	Δα = 66″	Δδ = 19.0′	13 57 53 -43 23.4		
	= 12.8 mm	= 19.0 mm			
3	14 2 46	-44 30.0	-44 9125		
	14 2 46	-44 30.0	-44 9104	✓	✓
	14 2 46	-44 30.0	14 03 55 -44 34.1	14 9 0	-44 58.7
	Δα = 109″	Δδ = 15.4	14 02 6 -44 18.7		
	= 18.5 mm	= 16.6 mm			
a	14 7 42	-45 36.6	-46 9128		
	14 7 42	-45 36.6	-45 9019	✓	✓
	14 7 42	-45 36.6	14 4 21 -46 11.2	14 [illegible] 1	-46 5.0
	Δα = 237″	Δδ = 40.1	14 8 18 -45 31.1		
	= 33.0 mm	= 38.5 mm			
B	13 51 33	-43 57.2	-43 8680		
	13 51 33	-43 57.2	-43 8667	✓	✓
	13 51 33	-43 57.2	13 51 43 -44 1.3	13 57 39	-44 26.9
	Δα = 35″	Δδ = 11.9′	13 51 8 -43 49.4		
	= 8.0 mm	= 12.2 mm			

Two

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A12595

NEB.	α			δ			COMP. STARS				Positions for 2000 α			δ	
24	18	31	36	-2	28.8		-2	4682							
	18	31	36	-2	28.8		-2	4666							
8.2	18	31	36	-2	28.8		18	32	35	-2	39.6	18	36	49	-2	24.8
	Δα = 83"			Δδ = 13.9'			18	31	12	-2	25.7					
	= 32.7 mm			= 14.4 mm												

#

A12090

NEB.	α			δ			COMP. STARS								
7.4 9	17	11	45	-25	11.6		-25	0985							
	17	11	45	-25	11.5		-24	5857							
	17	11	45	-25	11.6		17	11	54	-25	28.7	17	17	55	-25	18.6
	Δα = 29"			Δδ = 28.9'			17	11	25	-24	598					
	= 17.1 mm			= 43.5 mm												
8.7 11	17	19	32	-26	6.6		-26	0891							
	17	19	32	-26	6.5		-26	5895							
	17	19	32	-26	6.6		17	19	47	-26	13.2	17	25	45	-26	11.7
	Δα = 29"			Δδ = 9.6'			17	19	18	-26	3.6					
	= 6.6 mm			= 9.8 mm												

#

A7447

NEB.	α			δ			COMP. STARS								
5.0 1	20	1	56	-45	57.4		-46	9906							
	20	1	56	-46	57.4		-45	9885							
neb.?	20	1	56	-46[5]	57.4		20	1	37	-46	23.7	20	9	00	-45	40.3
	Δα = 90"			Δδ = 30.3'			20	3	7	-45	53.4					
26.9	= 16.8 mm			= 30.3 mm												
a	19	37	26	-46	55.9		-47	9361							
	19	37	26	-46	56.0		-46	9780							
two stars: cf. A14890	~~19~~	~~37~~	~~26~~	~~-46~~	~~56.0~~		19	40	4	-47	37.2					
	Δα = 220"			Δδ = 43.6			19	36	24	-46	53.6					
	= 29.1 mm			= 42.4 mm												

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1930phae.proj.2332M

60
A6910
NEB

	α	δ	Comp. Stars	Positions (1900) α	δ
4	19 22 19	-48 39.3	-48 10191		
	19 22 21	-48 39.3	-48 10167		
	19 22 20	-48 39.3	19 25 41 -48 55.9	19 29 48	-48 27.3
	Δα = 280"	Δδ = 51.0'	19 21 1 -48 4.9		
	= 47.9 mm	= 49.7 mm			
5	19 24 27	-48 12.7	-48 10202		
	19 24 27	-48 12.7	-48 10167		
	19 24 27	-48 12.7	19 27 49 -48 18.9	19 31 55	-48 0.5
	Δα = 408"	Δδ = 14.0'	19 21 1 -48 4.9		
	= 68.8 mm	= 13.5 mm			
a	19 29 51	-47 55.5	-48 10202		
	19 29 52	-47 55.5	-46 9780		
	19 29 52	-47 55.5	19 27 49 -48 18.9	19 37 14	-47 42.7
	Δα = 575"	Δδ = 85.3'	19 37 24 -46 53.6		
	= 88.8 mm	= 84.8 mm			
c	19 42 4	-47 28.9	-47 9366		
	19 42 4	-47 28.8	-46 9780		
	19 42 4	-47 28.8	19 42 56 -47 48.4	19 49 23	-47 14.4
	Δα = 332"	Δδ = 54.8'	19 37 24 -46 53.6		
	= 64.8 mm	= 57.7 mm			

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1939phae.proj.252M

H 9017

NEB.	α			δ			COMP. STARS						POSITIONS (α 2000)					
													α			δ		
22	18	57	18	-51	22.5		-51	11113										
	18	57	18	-51	22.5		-51	11107										
	18	57	18	-51	22.5		18	58	48	-51	34.2		19	5	8	-51	14.5	
	Δα = 110"			Δδ = 12.6'			19	56	58	-51	21.6							
	= 17.8 mm			= 12.0 mm														
21	19	0	55	-51	12.0		-51	11113										
	19	0	56	-51	12.0		-50	10995								51		
	19	0	56	-51	12.0		18	58	48	-51	34.2		19	8	46	-51	3.2	
	Δα = 374"			Δδ = 55.2'			19	5	2	-50	39.0							
	= 58.1 mm			= 56.7 mm														
20	19	1	52	-50	56.0													
	19	1	53	-50	55.9													
	19	1	52	-50	56.0								19	9	36	-50	46.8	
12	19	8	40	-53	39.0		-53	9517										
	19	8	40	-53	39.0		-53	9513										
HN1891	19	8	40	-53	39.0		19	11	28	-53	41.6		19	16	40	-53	29.0	
	Δα = 194"			Δδ = 8.0'			19	8	14	-53	33.6							
	= 11.4 mm			= 8.4 mm														
11	19	8	46	-53	31.2		-53	9513										
	19	8	46	-53	31.2		-53	9525										
HN1893	19	8	46	-53	31.2		19	8	14	-53	33.6		19	16	46	-53	21.2	
	Δα = 229"			Δδ = 18.2'			19	11	3	-53	15.4							
	= 25.8 mm			= 18.2 mm														

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A 9017 + 9021
NEB.

	α			δ		Comp Stars			Positions 2000		
									α		δ
5	19	13	10	-51	39.1	-51	11195				
	19	13	10	-51	39.1	-51	11218				
	19	13	10	-51	39.1	19 11 49	-51	45.2	19	20 57	-51 28.7
	Δα = 204"			Δδ = 7.2'		19 15 13	-51	38.0			
	= 33.1 mm			= 6.5 mm							
						-53	9602				
b	19	27	14	-53	3.7	-52	11474				
HN 1978	19	27	14	-53	3.5	19 28 9	-53	138			
	19	27	14	-53	3.6	19 26 38	-52	52.9	19	35 10	-52 51.2
	Δα = 89"			Δδ = 20.9'							
	= 11.8 mm			= 21.9 mm							
	#										
A 9021											
6	19	39	58	-43	40.4	-44	9632				
	19	39	58	-43	40.5	-43	9068				
	19	39	58	-43	40.4	19 36 38	-44	22.3	19	47 1	-43 26.3
	Δα = 228"			Δδ = 47.1'		19 40 26	-43	35.2			
	= 39.8 mm			= 48.5 mm							
1	19	39	45	-40	40.5	-40	9100				
	19	39	45	-40	40.6	-40	9097				
	19	39	45	-40	40.6	19 40 9	-40	44.4	19	46 36	-40 26.4
	Δα = 52"			Δδ = 32.2		19 39 17	-40	12.2			
	= 11.0 mm			= 32.5 mm							
b	19	44	19	-40	7.5	-40	9117				
	19	44	19	-40	7.5	-39	8546				
	19	44	19	-40	7.5	19 44 35	-40	17.7	19	51 9	-39 52.9
	Δα = 27"			Δδ = 27.3'		19 44 8	-39	50.4			
	= 4.9 mm			= 27.8 mm							

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A 9021

NEB.	α	δ	COMP. STARS	Positions in 2000 α	δ
5	19 45 54	-42 8.0	-42 8928		
	19 45 54	-42 8.0	-41 9222		
	19 45 54	-42 8.0	19 45 14 -42 10.3	19 52 52	-41 53.2
	Δα = 116″	Δδ = 17.7′	19 47 10 -41 52.6		
	= 20.0 mm	= 16.1 mm			
2	19 48 1	-40 23.7	-40 9126		
	19 48 1	-40 23.6	-39 8567		
	19 48 1	-40 23.6	19 47 12 -40 33.7	19 54 30	-40 8.6
	Δα = 178″	Δδ = 42.5′	19 50 10 -39 51.2		
	= 32.8 mm	= 32.3 mm			
(d)	19 52 46	-42 8.9	-42 8971		
=I.C.4924	19 52 46	-42 8.9	-42 8964		
	19 52 46	-42 8.9	19 54 3 -42 17.7	19 59 42	-41 53.3
	Δα = 106″	Δδ = 11.7′	19 52 17 -42 6.0		
	= 19.2 mm	= 12.0 mm			
7	19 53 30	-43 42.1	-44 9694		
	19 53 30	-43 42.2	-43 9145		
	19 53 30	-43 42.2	19 53 30 -44 19.6	20 00 35	-43 26.1
	Δα = 161″	Δδ = 69.6′	19 56 11 -43 12.0		
	= 32.5 mm	= 67.3 mm			
3	19 53 19	-40 59.2	-41 9257		
	19 53 19	-40 59.2	-40 9154		
	19 53 19	-40 59.2	19 54 38 -41 5.3	20 00 8	-40 43.2
	Δα = 101″	Δδ = 19.1′	19 52 57 -40 46.2		
	= 19.1 mm	= 19.1 mm			

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A 9021
NEB.

	α	δ	Comp. Stars	Positions 1 2000 α	δ
4	19 59 28	-40 28.6	-40 9202		
	19 59 28	-40 28.6	-40 9191		12.0
	19 59 28	-40 28.6	20 1 24 -40 40.0	20 6 14	-40 8.8
	Δα = 130"	Δδ = 24.4'	19 59 14 -40 15.6		
	= 24.5 mm	= 25.7 mm			
E	19 58 39	-42 59.5	-43 9145		
	19 58 39	-42 59.5	-42 9002		
	19 58 39	-42 59.5	19 56 11 -43 12.0	20 5 32	-42 42.9
	Δα = 263"	Δδ = 37.4'	19 59 34 -42 34.6		
	= 36.7 mm	= 36.8 mm			
8	19 59 13	-43 2.2			
	19 59 13	-43 2.2			
	19 59 13	-43 2.2		20 6 11	-42 45.4
9	19 59 19	-43 3.7			
	19 59 19	-43 3.6			
	19 59 19	-43 36		20 6 17	-42 46.8
11	20 0 6	-43 32.0	-44 9739		
	20 0 6	-43 32.0	-42 9002		
	20 0 6	-43 32.0	20 4 20 -43 57.5	20 7 4	-43 15.2
	Δα = 286"	Δδ = 82.9'	19 59 34 -42 34.6		
	= 48.5 mm	= 85.6			
11	20 0 48	-43 3.0			
	20 0 48	-43 2.9			46.2
	20 0 48	-43 2.9		20 7 46	-42 46.2

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H 9021

Neb

	α			δ			Comp. Sthrs α			δ		Positions in 2000 α			δ	
f	20	0	10	-43	32.0											
	20	0	10	-43	32.0											
	20	0	10	-43	32.0							20	7	8	-43	15.2
i2	20	2	44	-44	27.4				-44	9725						
	20	2	44	-44	27.4				-44	9733						
	20	2	44	-44	27.4	19	59	56	-44	35.3		20	9	44	-44	10.3
	Δα = 192″ = 36.6 mm			Δδ = 24.2′ = 23.0 mm			20	3	8	-44	11.1					
g	20	5	0	-44	28.5											
	20	5	0	-44	28.5											
	20	5	0	-44	28.5							20	11	59	-44	11.1
c	20	7	18	-40	24.7				-40	9202						
	20	7	18	-40	24.7				-40	9191						
	20	7	18	-40	24.7	20	1	24	-40	40.0		20	14	2	-40	7.1
	Δα = 130″ = 24.2 mm			Δδ = 24.4′ = 25.6			19	39	14	-40	15.6					

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A 13719

NEB.	α			δ		COMP. STARS					Positions in 2000 α		δ	
1	13	14	29	-43	20.1			-43 6098						
	13	14	29	-43	20.1			-42 6229						
	13	14	29	-43	20.1	13	12	17	-43	31.6	13	20	13	-42 31.7
	Δα = 199"			Δδ = 25.0'		13	15	36	-43	6.6				
	= 36.2 mm			= 25.7 mm										
2	13	14	52	-43	10.4									
	13	14	51	-43	10.4									
	13	14	52	-43	10.4						13	20	37	-43 42.4
3	13	15	24	-43	10.7									
= N 5090	13	15	23	-43	10.7									
	13	15	24	-43	10.7						13	21	9	-43 42.3
4	13	15	29	-43	11.4									
= N 5091	13	15	28	-43	11.5									
	13	15	28	-43	11.4						13	21	3	-43 43.4
5	13	15	25	-43	14.1									
	13	15	25	-43	14.1									
	13	15	25	-43	14.1						13	21	10	-43 46.1
8	13	13	31	-43	7.5									
= N 5092	13	13	31	-43	7.5									
	13	13	31	-43	7.5						13	19	18	-43 39.5
12	13	14	7	-43	15.9									
	13	14	6	-43	15.9									
	13	14	6	-43	15.9						13	19	52	-43 47.9

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A 13719

Neb.	α	δ	Comp. stars	Positions in 2000 α	Positions in 2000 δ
73	13 14 23	-43 10.2			
	13 14 23	-43 10.2			
	13 14 23	-43 10.2		13 20 9	-43 42.2
9	13 14 30	-43 2.9	-42 6229		
	13 14 31	-43 2.9	-42 6204		
	13 14 30	-43 2.9	13 15 36 -43 6.6	13 20 16	-43 34.9
	Δα = 228″ = 42.4 mm	Δδ = 20.3′ = 19.9 mm	13 11 48 -42 46.3		
6	13 14 27	-42 55.8			
	13 14 26	-42 55.8			
	13 14 26	-42 55.8		13 20 12	-43 27.5
7	13 12 27	-42 59.1			
	13 12 26	-42 59.1			31.0
	13 12 26	-42 59.1		13 18 11	-43 41.1
14	13 13 19	-42 43.2	-42 6204		
	13 13 19	-42 43.2	-42 6233		
	13 13 19	-42 43.2	13 11 48 -42 46.3	13 19 4	-43 15.2
	Δα = 266″ = 48.9 mm	Δδ = 14.8′ = 15.7 mm	13 16 14 -42 31.5		
17	13 13 15	-42 36.4			
	13 13 15	-42 36.4			
	13 13 15	-42 36.4		13 19 00	-43 8.4

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1930phae.proj.232M

68

A 13719

Neb.	α			δ		Comp. Stars				Positions in 2000 α		δ	
16	13	14	9	-42	35.5	13	11	48	-42 46.3				
	13	14	9	-42	35.5	13	16	14	-42 31.5	✓		✓	
	13	14	9	-42	35.5					13	19 55	-43	7.2
15	13	14	55	-42	34.7								
	13	14	55	-42	34.7					✓		✓	
	13	14	55	-42	34.7					13	20 41	-43	6.4
✓65	13	14	58	-42	46.0								
	13	14	58	-42	46.0					✓		✓	
	13	14	58	-42	46.0					13	20 44	-43	17.7
✓60	13	15	37	-42	55.8		-42	6229					
	13	15	37	-42	55.9		-42	6249		✓		✓	
	13	15	37	-42	55.8	13	15	36	-43 6.6	13	21 24	-43	27.4
	Δα = 207″			Δδ = 21.9′		13	19	3	-42 44.7				
	= 37.8 mm			= 22.0 mm									
✓13	13	17	26	-43	1.3								
	13	17	26	-43	1.4					✓		✓	
	13	17	26	-43	1.4					13	23 15	-43	32.8
✓10	13	16	22	-43	28.1		-43	6121					
	13	16	22	-43	28.1		-42	6229		✓		✓	
	13	16	22	-43	28.1	13	16	46	-43 44.1	13	22 11	-43	59.5
	Δα = 70″			Δδ = 37.5′		13	15	36	-43 6.6				
	= 13.0 mm			= 37.8 mm									

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1930phae.proj.2322M

A 13719

NEB.	α			δ		COMP. STARS				Positions in 2000 α			δ	
25	13	15	17	-43	46.9	C.D.M.	-43	8216						
	13	15	17	-43	46.9	C.P.D.	-43	6098						
	13	15	17	-43	46.9	13	15	26	-43 56.4	13	21	5	-44	18.5
	Δα = 189"			Δδ = 24.8'		13	12	17	-43 31.6					
	= 38.5 mm			= 27.6 mm										
44	13	13	54	-43	48.1									
	13	13	54	-43	48.1									
	13	13	54	-43	48.1					13	19	41	-44	19.8
43	13	13	28	-43	44.3									
	13	13	28	-43	44.3									
	13	13	28	-43	44.3					13	19	15	-44	16.0
41	13	22	48	-43	55.0		-43	6161						
	13	22	48	-43	55.0		-43	6124						
	13	22	48	-43	55.0	13	23	18	-43 56.5	13	28	40	-44	26.2
	Δα = 376"			Δδ = 29.7'		13	17	2	-43 26.8					
	= 65.2 mm			= 32.6 mm										
39	13	21	37	-43	51.1									
	13	21	37	-43	51.1									
	13	21	37	-43	51.1					13	27	29	-44	22.3
	13	20	26	-43	52.7									
	13	20	26	-43	52.6									
	13	20	26	-43	52.6					13	26	17	-44	23.8

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H.13719

NEB.	α			δ		COMP. STARS						POSITIONS IN 2000 α			δ	
26	13	20	29	-43	43.0	13	23	18	-43	56.5						
	13	20	29	-43	43.1	13	17	2	-43	26.8		✓			✓	
	13	20	29	-43	43.0							13	26	20	-44	14.2
68	13	21	22	-43	38.1											
	13	21	22	-43	38.1							✓			✓	
	13	21	22	-43	38.1							13	27	13	-44	9.3
62	13	22	50	-43	38.1											
	13	22	50	-43	38.1							✓			✓	
	13	22	50	-43	38.1							13	28	42	-44	9.3
46	13	23	44	-43	26.1		-43	6161								
	13	23	44	-43	26.1		-43	6168				✓			✓	
	13	23	44	-43	26.1	13	23	18	-43	56.5		13	29	37	-43	57.1
	Δα = 68"			Δδ = 35.1'		13	24	26	-43	21.4						
	= 16.0 mm			= 37.7 mm												
71	13	21	5	-43	28.4		-43	6121								
	13	21	5	-43	28.4		-43	6168				✓			✓	
	13	21	5	-43	28.4	13	16	46	-43	44.1		13	26	56	-43	59.6
	Δα = 460"			Δδ = 22.7'		13	24	26	-43	21.4						
	= 83.8 mm			= 22.4 mm												
11	13	18	15	-43	9.4		-43	6124								
	13	18	15	-43	9.4		-42	6249				✓			✓	
	13	18	15	-43	9.4	13	17	2	-43	26.8		13	24	5	-43	40.7
	Δα = 121"			Δδ = 42.1'		13	19	3	-42	44.1						
	= 21.9 mm			= 42.5 mm												

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H 13719

NEB.	α	δ	COMP STARS	POSITIONS in 2000 α	δ
12	13 18 35	-43 12.4			
	13 18 35	-43 12.4			
4.2	13 18 35	-43 12.4		13 24 25	-43 43.7
29	13 22 38	-43 2.7	-43 6168		
	13 22 37	-43 2.7	-42 6249		
.3	13 22 38	-43 2.7	13 24 26 -43 21.4	13 28 30	-43 33.9
	Δα = 323"	Δδ = 36.7'	13 19 3 -42 44.7		
	= 39.2 mm	= 39.0 mm			
1.3	28 13 21 48	-43 5.0			
	13 21 48	-43 5.0			
	13 21 48	-43 5.0		13 27 40	-43 36.2
57.1	32 13 21 59	-42 54.4			
	13 21 59	-42 54.4			
	13 21 59	-42 54.4		13 27 49	-43 25.6
	67 13 21 33	-42 56.8			
	13 21 32	-42 56.8			
9.6	13 21 32	-42 56.8		13 27 22	-43 28.0
	31 13 21 15	-42 48.5			
	13 21 15	-42 48.5			
	13 21 15	-42 48.5		13 27 5	-43 19.7
0.7	66 13 20 4	-42 53.4			
	13 20 4	-42 53.4			
	13 20 4	-42 53.4		13 25 54	-43 24.6

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H 13719 NEB.

	α			δ			Comp. Stars				Positions in 2000			
											α		δ	
64	13	15	42	-42	17.4		-42	6233						
	13	15	42	-42	17.4		-41	6287						
	13	15	42	-42	17.4	13	16	14	-42	31.5	13	21	29	-42 49.0
	Δα = 210″			Δδ = 60.3′		13	12	44	-41	31.2				
	= 40.0 mm			= 60.5 mm										
18	13	15	48	-41	47.8									
	13	15	48	-41	47.8									
	13	15	48	-41	47.8						13	21	33	-42 19.5
69a	13	13	8	-41	25.4		-41	6287						
	13	13	8	-41	25.5		-40	6146						
	13	13	8	-41	25.4	13	12	44	-41	31.2	13	18	52	-41 57.2
	Δα = 271″			Δδ = 34.3′		13	17	15	-40	56.9				
	= 50.8 mm			= 35.2 mm										
63b	13	13	5	-41	24.7									
	13	13	5	-41	24.7									
	13	13	5	-41	24.7						13	18	49	-41 56.5
22	13	13	54	-41	14.2									
	13	13	54	-41	14.2									
	13	13	54	-41	14.2						13	19	38	-41 46.0
19	13	16	13	-41	10.4									
	13	16	13	-41	10.4									
	13	16	13	-41	10.4						13	21	58	-41 42.1

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A 13719

NEB.	α	δ	COMP. STARS	Positions in 2000 α	δ
58	13 17 43	-41 12.7	-41 6321		
	13 17 43	-41 12.7	-40 6146		
49.0	13 17 43	-41 12.7	13 18 12 -41 22.8	13 23 30	-41 44.3
	Δα = 59"	Δδ = 25.9'	13 17 15 -40 56.9		
	= 11.1 mm	= 26.3 mm			
20	13 17 51	-41 3.3			
	13 17 51	-41 3.3			
41.5	13 17 51	-41 3.3		13 23 38	-41 34.9
21	13 17 16	-41 2.8			
	13 17 16	-41 2.8			
57.2	13 17 16	-41 2.8		13 23 3	-41 34.4
55	13 11 29	-42 33.4	-42 6204		
	13 11 29	-42 33.4	-42 6209		
	13 11 29	-42 33.4	13 11 48 -42 46.3	13 17 14	-43 5.4
	Δα = 5"	Δδ = 22.1'	13 11 43 -42 24.2		
56.5	= 1.5 mm	= 22.3 mm			
23	13 11 1	-42 36.5			
	13 11 1	-42 36.5			
46.0	13 11 1	-42 36.5		13 16 46	-43 8.5
45	13 17 44	-42 8.5	-42 6233		
	13 17 44	-42 8.6	-41 6343		
42.1	13 17 44	-42 8.6	13 16 14 -42 31.5	13 23 32	-42 40.1
	Δα = 303"	Δδ = 57.1'	13 21 17 -41 36.4		
	= 56.1 mm	= 55.8 mm			

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1930phae.proj.231:M

H 13719
NEB.

	α			δ			Comp. Stars					Position 12 2000 α			δ	
50	13	19	6	-41	51.5											
	13	19	7	-41	51.5											
	13	19	6	-41	51.5							13	24	53	-42	23.1
51	13	19	44	-41	34.7		-41	6343								
	13	19	44	-41	34.8		-41	6321								
	13	19	44	-41	34.8	13	21	17	-41	36.4		13	25	32	-42	6.4
	Δα = 185"			Δ δ = 13.6'		13	18	12	-41	22.8						
	= 34.8 mm			= 13.7 mm												
37	13	21	14	-42	25.5		-42	6249								
	13	21	14	-42	25.5		-42	6276								
	13	21	14	-42	25.5	13	19	3	-42	44.7		13	27	4	-42	56.9
	Δα = 213"			Δ δ = 28.1'		13	22	36	-42	16.6						
	= 45.7 mm			= 28.7 mm												
38	13	21	52	-42	32.9											
	13	21	52	-42	32.9											
	13	21	52	-42	32.9							13	27	42	-43	4.3
49	13	23	5	-42	1.8		-42	6276								
	13	23	5	-42	1.7		-41	6370								
	13	23	5	-42	1.8	13	22	36	-42	16.6		13	28	56	-42	32.9 ~~33.2~~
	Δα = 161"			Δ δ = 56.5'		13	25	17	-41	20.1						
	= 25.2 mm			= 56.4 mm												
35	13	22	47	-41	28.7											
	13	22	47	-41	28.6											
	13	22	47	-41	28.6							13	28	36	-42	00.0

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13719

NEB	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
48	13 24 27	-42 21.2	-42 6309		
	13 24 28	-42 21.1	-42 6276		
	13 24 28	-42 21.2	13 28 17 -42 33.9	13 30 19	-42 52.4
	Δα = 341″	Δδ = 37.3′	13 22 36 -42 16.6		
	= 56.5 mm	= 39.2 mm			
30	13 27 20	-42 41.2	-42 6309		
	13 27 20	-42 41.2	-42 6295		
	13 27 20	-42 41.2	13 28 17 -42 33.9	13 33 13	-43 12.0
	Δα = 121″	Δδ = 42.6′	13 26 16 -42 11.3		
	= 21.5 mm	= 43.6 mm			
34	13 27 43	-42 33.4			
	13 27 43	-42 33.4			
	13 27 43	-42 33.4		13 33 36	-43 4.2
54	13 27 38	-42 18.8			
	13 27 38	-42 18.8			
	13 27 38	-42 18.8		13 33 31	-42 49.9
53	13 26 41	-42 23.5			
	13 26 41	-42 23.4			
	13 26 41	-42 23.4		13 32 33	-42 54.2
42	13 16 17	-43 59.8	CDM -43 8216		
	13 16 17	-43 59.8	-43 6121		
	13 16 17	-43 59.8	13 15 26 -43 56.4	13 22 5	-44 31.4
	Δα = 80″	Δδ = 12.3′	13 16 46 -43 44.1		
	= 10.8 mm	= 15.7 mm			

#

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1930phae.proj.23:CM

A 13037

A 13037

NEB.	α			δ			COMP. STARS					POSITIONS IN 2000 α		δ	
24	14	27	3	-29	55.8		-29 3998								
	14	27	3	-29	55.8		-29 3984								
	14	27	3	-29	55.8		14	28	20	-30	1.4	14	32	57	-30 22.8
	Δα = 282"			Δδ = 45.7'			14	23	38	-29	15.7				
	= 62.0 mm			= 46.2 mm											
23	14	26	13	-29	44.4										
	14	26	13	-29	44.4										
2 stars: cf. A 13037	~~14~~	~~26~~	~~13~~	~~-29~~	~~44.7~~										
22 not neb.	~~14~~	25	16	-29	41.1										
	14	25	16	-29	41.1										
	14	25	16	-29	41.1										
21 not neb.	~~14~~	26	24	-29	39.6										
	14	26	24	-29	39.7										
	14	26	24	-29	39.6										
18	14	26	35	-29	28.7										
	14	26	35	-29	28.8										
	14	26	35	-29	28.8							14	32	29	-29 55.8
19	14	26	15	-29	30.2										
	14	26	15	-29	30.3										
	14	26	15	-29	30.3							14	32	9	-29 57.3
17	14	26	21	-29	17.4										
	14	26	21	-29	17.4										
	14	26	21	-29	17.4							14	32	15	-29 44.4

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1930phae.proj.2327CM

H 13037

NEB.	α			δ		COMP. STARS					POSITIONS IN 2000				
											α			δ	
6	14	25	31	-29	40.8	14	28	20	-30	14	✓			✓	
	14	25	31	-29	40.9	14	23	38	-29	15.7					
	14	25	31	-29	40.8						14	31	23	-30	8.0
5	14	24	57	-29	45.9										
	14	24	57	-29	45.9										
2 stars: cf H 13037	~~14~~	~~24~~	~~57~~	~~-29~~	~~45.9~~										
8	14	25	14	-29	31.6										
	14	25	14	-29	31.6						✓			✓	
	14	25	14	-29	31.6						14	31	6	-29	58.8
7	14	24	41	-29	35.7										
	14	24	41	-29	35.7						✓			✓	
	14	24	41	-29	35.7						14	30	33	-30	2.9
10	14	24	45	-29	28.0										
	14	24	45	-29	28.1						✓			✓	
	14	24	45	-29	28.0						14	30	37	-29	55.2
9	14	24	14	-29	29.6										
	14	24	14	-29	29.7										
2 stars: cf H 15376	~~14~~	~~24~~	~~14~~	~~-29~~	~~29.6~~										
12	14	25	8	-29	16.5										
	14	25	8	-29	16.5						✓			✓	
	14	25	8	-29	16.5						14	31	00	-29	43.7

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H 13037

NEB.	α	δ	COMP STARS	Positions in 2000 α	Positions in 2000 δ
11	14 24 43	-29 17.8	14 28 20 -30 1.4		
	14 24 42	-29 17.8	14 23 38 -29 15.7		
	14 24 42	-29 17.8		14 30 34	-29 45.0
N.G.C. 13 5626	14 23 57	-29 18.3			
	14 23 57	-29 18.3			
	14 23 57	-29 18.3		14 29 49	-29 45.5
15	14 24 46	-29 12.7	-29 3984		
	14 24 46	-29 12.7	-29 3994		
	14 24 46	-29 12.7	14 23 38 -29 15.7	14 30 38	-29 39.9
	Δα = 221" = 50.0 mm	Δδ = 7.4' = 76 mm	14 27 25 -29 8.3		
14	14 25 11	-29 13.3			
	14 25 11	-29 13.3			
	14 25 11	-29 13.3		14 31 3	-29 40.5
16	14 26 6	-29 15.7			
	14 26 5	-29 15.7			
	14 26 6	-29 15.7		14 32 00	-29 42.7
(20)	14 26 44	-29 41.2		= no. 15 on H 13039. See Bk. 1 p 57 - position by C.D.B.	
1	14 14 22	-29 19.2	-29 11012		
	14 14 24	-29 19.2	-28 10577		
	14 14 23	-29 19.2	14 16 15 -29 28.6	14 20 12	-29 47.2
	Δα = 219" = 44.2 mm	Δδ = 39.7' = 32.7	14 12 38 -28 50.9		

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H 13037

	NEB	α			δ			COMP. STARS					Positions in 2000 α			δ	
	57	14	13	40	-26	53.5		-26	10247								
		14	13	45	-26	53.5		-26	10219								
5.0		14	13	45	-26	53.5		14	16	16	-27	2.6	14	19	29	-27	21.4
		Δα = 177"			Δ δ = 14.1mm			14	13	19	-26	48.5					
		= 32.8mm			= 16.8mm												
	56	14	13	50	-26	53.6											
5.5		14	13	50	-26	53.6											
		14	13	50	-26	53.6							14	19	34	-27	21.5
	58	14	15	18	-26	54.0											
9.9		14	15	18	-26	54.0											
		14	15	18	-26	54.0							14	21	3	-27	21.6
	96	14	13	35	-26	11.9		-26	10219								
		14	13	35	-26	11.8		-26	10252								
		14	13	35	-26	11.8		14	13	19	-26	48.5	14	19	19	-26	39.7
10.5		Δα = 217"			Δ δ = 29.1'			14	16	06	-26	19.4					
		= 48.1mm			= 30.5mm												
	59	14	15	50	-26	39.8											
2.7		14	15	50	-26	39.9											
		14	15	50	-26	39.8							14	21	35	-27	7.4
D.B.	89	14	16	22	-26	22.9											
		14	16	22	-26	22.7											
		14	16	22	-26	22.8							14	22	7	-26	50.4
7.2																	
	~~55~~	14	16	19	-27	29.5		-27	9781								
								-26	10247								
	2 stars	14	16	19	-27	29.6		14	16	28	-27	32.5					
	~~14 16 19 -27 29.6~~																
	of H 14797	Δα = 12"			Δ δ = 29.9'			14	16	16	-27	02.6					
		= 10.8 mm			= 28.2mm												

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H13037

NEB.

	α	δ	COMP. STARS	Positions in 2000 α	δ
52	14 15 12	-28 14.2	-28 10635		
	14 15 12	-28 14.3	-28 10610	✓	✓
	14 15 12	-28 14.2	14 16 53 -28 40.4	14 21 00	-28 41.6
	Δα = 125"	Δδ = 30.5'	14 14 48 -28 9.9		
	= 28.5 mm	= 30.0 mm			
51	14 15 23	-28 47.0	-28 10577		
	14 15 22	-28 47.0	-28 10635	✓	✓
	14 15 22	-28 47.0	14 12 38 -28 50.9	14 21 10	-29 14.6
	Δα = 255"	Δδ = 10.4'	14 16 03 -28 41.5		
	= 53.1 mm	= 14.3 mm			
~~X~~	14 17 2	-29 32.3	-29 11014		
2 stars	14 17 2	-29 32.3	-29 11030	✓	✓
	14 17 2	-29 32.3	14 16 24 -29 39.3	14 22 52	-30 0.1
	Δα = 71"	Δδ = 30.0	14 17 35 -29 27.3		
	= 15.8 mm	= 38.4 mm			
54	14 18 38	-28 10.3	-28 10709		
	14 18 32	-28 10.2	-28 10610	✓	✓
	14 18 35	-28 10.2	14 22 4 -28 40.3	14 24 23	-28 37.3
	Δα = 430"	Δα = 35.4'	14 14 48 -28 9.9		
	= 97.5 mm	= 34.0 mm			
g	14 19 10	-25 18.7	-25 10313		
	14 19 10	-25 18.7	-24 11490	54	
	14 19 10	-25 18.7	14 18 38 -25 41.7	14 24 50	-25 45.9
	Δα = 144"	Δδ = 35.6'	14 21 2 -25 6.1		
	= 32.0 mm	= 36.0 mm			

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F13037

NEB	α	δ	COMP. STARS	POSITIONS IN 2000 α	δ
48	14 20 52	-28 30.6	-28 10709		
	14 20 52	-28 30.6	-28 10691		
	14 20 52	-28 30.6	14 22 4 -28 45.3	14 26 41	-28 57.8
	Δα = 118"	Δδ = 31.9'	14 20 6 -28 13.4		
	= 27.0 mm	= 33.2 mm			
46	14 21 20	-28 18.1			
	14 21 20	-28 18.0			
	14 21 20	-28 18.0		14 27 9	-28 45.0
50	14 21 17	-29 21.2	-29 11030		
	14 21 17	-29 21.1	-28 10709		
	14 21 17	-29 21.2	14 17 35 -29 29.3	14 27 6	-29 48.6
	Δα = 329"	Δδ = 44.0'	14 22 4 -28 45.3		
	= 57.8 mm	= 37.8 mm			
4	14 22 42	-29 57.6	-29 11085		
	14 22 42	-29 57.5	-29 11100		
2 stars: cf. F15376	~~14 22 42~~	~~-29 57.6~~	14 22 29 -30 24		
	Δα = 83"	Δδ = 33.5'	14 23 52 -29 28.9		
	= 19.5 mm	= 29.8 mm			
88	14 22 51	-26 21.7	-26 10306		
	14 22 50	-26 21.6	-25 10378		
	14 22 50	-26 21.6	14 22 33 -26 23.6	14 28 37	-26 48.4
	Δα = 139"	Δδ = 21.2'	14 24 52 -26 2.4		
	= 31.2 mm	= 22.0 mm			
85	14 22 54	-26 14.9			
	14 22 57	-26 14.9			
	14 22 57	-26 14.9		14 28 44	-26 41.7

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A 13037

NEB	α	δ	COMP. STARS	Positions in 2000 α	δ
87	14 24 13	-26 21.7	14 22 33 -26 23.6		
	14 24 12	-26 21.6	14 24 52 -26 2.4		
	14 24 12	-26 21.6		14 29 59	-26 48.2
60	14 23 16	-26 45.0	-26 10329		
	14 23 16	-26 45.0	-26 10306		
	14 23 16	-26 45.0	14 24 41 -27 4.9	14 29 3	-27 11.8
	Δα = 128"	Δδ = 41.3	14 22 33 -26 23.6		
	= 37.8 mm	= 34.8			
83	14 22 54	-25 27.8	-25 10367		
	14 22 54	-25 27.6	-25 10346		
	14 22 54	-25 27.7	14 23 46 -25 34.5	14 28 39	-25 54.5
	Δα = 123"	Δδ = 8.4'	14 21 43 -25 26.1		
	= 25.0 mm	= 7.5 mm			
61	14 24 55	-27 0.8	-27 9888		
	14 24 55	-27 0.5	-26 10306		
	14 24 55	-27 0.6	14 26 17 -27 36.1	14 30 44	-27 27.5
	Δα = 224"	Δδ = 72.5'	14 22 33 -26 23.6		
	= 50.5	= 72.1 mm			
2	14 24 48	-27 22.8			
	14 24 47	-27 22.6			
	14 24 48	-27 22.7		14 30 37	-27 49.6
42	14 25 24	-27 30.8			
	14 25 25	-27 30.6			
	14 25 24	-27 30.7		14 31 13	-27 57.6

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1930phae.proj.232EM

H 13037

NEB.	α	δ	COMP. STARS	Positions in 2000 α	Positions in 2000 δ
46	14 25 30	-28 17.7	-29 3994 (CPD)		
	14 25 30	-28 17.7	-28 10748		
	14 25 30	-28 17.7	14 27 25 -27 8.3	14 31 20	-28 44.3
	Δα = 138"	Δδ = 528.1'	14 25 7 -28 15.5		
	= 30.0 mm	= 52.5 mm			
38	14 27 11	-29 2.8			
	14 27 11	-29 2.8			
	14 27 11	-29 2.8		14 33 4	-29 29.7
44	14 26 28	-27 54.3	-27 9905		
	14 26 29	-27 54.3	-27 9888		
	14 26 28	-27 54.3	14 27 52 -27 58.4	14 32 17	-28 21.1
	Δα = 95"	Δδ = 22.3'	14 26 17 -27 36.1		
	= 22.8 mm	= 26.3 mm			
64	14 26 13	-26 39.5	-26 10329		
	14 26 14	-26 39.4	-26 10346		
	14 26 14	-26 39.4	14 24 41 -27 4.9	14 32 2	-27 5.9
	Δα = 105"	Δδ = 31.4'	14 26 26 -26 33.5		
	= 15.1 mm	= 25.9 mm			
81	14 26 21	-25 0.5	-24 10523		
	14 26 21	-25 0.4	-24 11564		
	14 26 21	-25 0.4	14 24 5 -25 5.5	14 32 7	-25 26.8
	Δα = 275"	Δδ = 15.1'	14 28 40 -24 30.4		
	= 62.9 mm	= 15.6 mm			

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H 13037

NEB.	α	δ	COMP. STARS	POSITIONS IN 2000 α	POSITIONS IN 2000 δ
62	14 26 31	-27 13.2	-27 9908		
	14 26 31	-27 13.2	-26 10329		
	14 26 31	-27 13.2	14 28 24 -27 40.5	14 32 20	-27 40.0
	Δα = 223″	Δδ = 35.6′	14 24 41 -27 4.9		
	= 41.0 mm	= 42.0 mm			
65	14 28 11	-26 33.5	-27 9948		
	14 28 11	-26 33.5	-26 10346		
	14 28 11	-26 33.5	14 32 10 -27 13.6	14 33 59	-27 00.0
	Δα = 344″	Δδ = 40.1	14 26 26 -26 33.5		
	= 76.8 mm	= 41.8 mm			
66	14 30 58	-26 39.6			
	14 30 58	-26 39.6			
	14 30 58	-26 39.6		14 36 46	-27 6.0
41	14 28 44	-27 33.3	-27 9908		
	14 28 44	-27 33.3	-27 9948		
	14 28 44	-27 33.3	14 28 24 -27 42.0	14 34 33	-28 0.1
	Δα = 226″	Δδ = 26.9′	14 32 10 -27 13.6		
	= 50.5 mm	= 26.0 mm			
40	14 30 54	-27 24.5			
	14 30 54	-27 24.5			
	14 30 54	-27 24.5		14 36 44	-27 50.9
37	14 29 30	-28 53.0	-29 3994 (C.P.D)		
	14 29 30	-28 53.0	-28 10829 (CPM)		
	14 29 30	-28 53.0	14 27 25 -29 8.3	14 35 22	-29 19.4
	Δα = 221″	Δδ = 41.3′	14 31 6 -28 27.0		
	= 43.2 mm	= 42.5 mm			

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NEB	α	δ	Comp. Stars	Positions in 2000 α	δ
39	14 29 9	-27 56.6	-27 9905		
	14 29 9	-27 56.5	-27 9936		
	14 29 9	-27 56.6	14 27 52 -27 58.4	14 34 58	-28 23.1
	Δα = 168″	Δδ = 9.3′	14 30 39 -27 49.1		
	= 35.2mm	= 18.5mm			
80	14 31 25	-25 27.4	-25 10466		
	14 31 25	-25 27.4	-24 11564		
	14 31 25	-25 27.4	14 33 20 -25 38.3	14 37 12	-25 53.5
	Δα = 280″	Δδ = 47.9′	14 28 40 -24 544		
	= 6.35mm	= 48.5mm			
79	14 32 1	-25 24.5			
	14 32 0	-25 24.4			
	14 32 0	-25 24.4		14 37 47	-25 50.5
76	14 32 29	-25 23.0			
	14 32 30	-25 23.0			
	14 32 30	-25 23.0		14 38 17	-25 49.1
75	14 32 23	-25 7.7			
	14 32 22	-25 7.7			
	14 32 22	-25 7.7		14 38 9	-25 33.8
36	14 31 29	-28 41.3	-29 11221		
	14 31 29	-28 41.2	-28 10829		
	14 31 29	-28 41.2	14 33 56 -29 7.7	14 37 21	-29 7.6
	Δα = 170″	Δδ = 40.7′	14 31 6 -28 27.0		
	= 5.0mm	= 42.8			

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NEB

	α	δ	COMP. STARS	Positions in 2000 α	δ
27	14 32 57	-28 46.9	14 33 56 -29 7.7		
	14 32 51	-28 47.0	14 31 6 -28 27.0		
	14 32 51	-28 47.0		14 38 43	-29 13.3
26	14 33 44	-29 1.2			
	14 33 43	-29 1.2			
	14 33 44	-29 1.2		14 39 38	-29 27.4
a	14 32 22	-29 23.5	-29 11192		
	14 32 22	-29 23.5	-29 11221		
	14 32 22	-29 23.5	14 31 10 -29 42.4	14 38 16	-29 49.9
	Δα = 166"	Δδ = 34.9'	14 33 56 -29 7.9		
	= 49.2 mm	= 34.4 mm			
25	14 32 44	-29 13.4			
	14 32 44	-29 13.4			
	14 32 44	-29 13.4		14 38 38	-29 39.8
74	14 33 38	-25 2.4	-25 10478		
	14 33 38	-25 2.7	-24 11597		
	14 33 38	-25 2.6	14 34 40 -25 19.8	14 39 25	-25 28.6
	Δα = 157"	Δδ = 19.5'	14 32 3 -25 0.3		
	= 35.8 mm	= 20.2 mm			
73	14 33 56	-25 3.6			
	14 33 56	-25 3.6			
"	14 33 56	-25 3.6		14 39 53	-25 29.6

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NEB

		α	δ	COMP. STARS	Positions in 2000 L			S
34		14 32 32	-27 22.8	-27 99[illegible]				
		14 32 32	-27 22.8	-27 9948				
33.3		14 32 32	-27 22.8	14 32 59 -27 36.4	14	38	22	-27 59.2
		Δα = 49"	Δδ = 22.8'	14 32 10 -27 13.6				
		= 11.0 mm	= 22.3 mm					
27.4	33	14 32 35	-27 30.8					
		14 32 34	-27 30.8					
		14 32 34	-27 30.8		14	38	24	-27 57.2
19.9	77	14 33 58	-25 22.9	-25 10466				
		14 33 58	-25 22.8	-24 11634				
		14 33 58	-25 22.8	14 33 20 -25 38.3	14	39	55	-25 48.8
		Δα = 222"	Δδ = 33.1'	14 37 2 -25 5.2				
		= 52.8 mm	= 31.6 mm					
39.8	76	14 34 21	-25 22.8					
		14 34 21	-25 22.9					
		14 34 21	-25 22.8		14	40	08	-25 48.8
18.6	72	14 35 23	-25 10.1					
		14 35 23	-25 10.0					
		14 35 23	-25 10.0		14	41	10	-25 36.0
	71	14 36 12	-25 10.3					
		14 36 12	-25 10.2					
29.8		14 36 12	-25 10.2		14	42	00	-25 36.2

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NEB

	α	δ	COMP. STARS	Positions in 2000 α	Positions in 2000 δ
32	14 35 10	-27 51.5	-28 10908		
	14 35 10	-27 51.6	-27 9955		
	14 35 10	-27 51.6	14 38 20 -28 38.9	14 41 1	-28 17.7
	Δα = 321"	Δδ = 62.5'	14 32 59 -27 36.4		
	= 69.5 mm	= 64.3 mm			
28	14 37 13	-28 52.1	-29 11221		
	14 37 13	-28 52.1	-28 10908		
	14 37 13	-28 52.1	14 33 56 -29 7.7	14 43 6	-29 18.1
	Δα = 264"	Δδ = 28.8'	14 38 20 -28 38.9		
	= 46.2 mm	= 28.3			
C	14 38 5	-29 45.7	-29 11263		
	14 38 5	-29 45.7	-29 11314		
	14 38 5	-29 45.7	14 37 31 -29 46.4	14 44 00	-30 11.5
	Δα = 247"	Δδ = 31.8'	14 41 38 -29 14.6		
	= 55.3 mm	= 31.0 mm			
29	14 40 7	-29 17.4			
	14 40 7	-29 17.5			
	14 40 7	-29 17.4		14 46 3	-29 43.1
67	14 35 55	-27 4.3	-27 9994		
	14 35 55	-27 4.3	-26 10422		
	14 35 55	-27 4.3	14 36 48 -27 14.9	14 41 6	-27 30.1
	Δα = 136"	Δδ = 26.3'	14 34 32 -26 48.6		
	= 29.5 mm	= 27.3 mm			

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NEB	α	δ	COMP. STARS	POSITIONS IN 2000 α	POSITIONS IN 2000 δ
69	14 37 54	-26 40.5	-27 9994		
	14 37 54	-26 40.5	-26 10476		
	14 37 54	-26 40.5	● 36 48 -27 14.9	14 43 44	-27 6.1
	Δα = 101"	Δδ = 38.8'	14 38 29 -26 36.1		
	= 24.0 mm	= 39.5 mm			
70	14 40 48	-27 18.1	-27 10052		
	14 40 48	-27 18.1	-27 9994		
	14 40 48	-27 18.1	14 41 52 -27 34.5	14 46 40	-27 43.4
	Δα = 304"	Δδ = 19.6	14 36 48 -27 14.9		
	= 72.2 mm	= 23.2 mm			
f	14 41 36	-25 49.1	-25 10531		
	14 41 36	-25 49.1	-25 10543		
	14 41 36	-25 49.1	14 41 23 -26 0.7	14 47 24	-26 14.5
	Δα = 97"	Δδ = 26.6'	14 43 0 -25 34.1		
	= 23.0 mm	= 26.6 mm			
30	14 43 2	-29 2.3	-29 11314		
	14 43 2	-29 2.3	-28 10977		
	14 43 2	-29 2.3	14 41 38 -29 14.6	14 48 59	-29 27.5
	Δα = 139"	Δδ = 19.3'	14 43 57 -28 55.3		
	= 31.7 mm	= 18.6 mm			

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90 Checked for position - S. F. H. H 13362

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NEB.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
71	12 47 4	-26 12.6	-26 9376		
	12 47 4	-26 12.6	-25 9434		
	12 47 4	-26 12.6	12 47 14 -26 30.5	12 52 24	-26 45.2
	Δα = 321"	Δδ = 64.2'	12 41 53 -25 26.3		
	= 71.5 mm	= 65.7 mm			
76	12 46 41	-26 4.7			
	12 46 41	-26 4.7			
	12 46 41	-26 4.7		12 52	-26 37.7
169	12 46 56	-26 3.1			
	12 46 57	-26 3.1			
	12 46 56	-26 3.1		12 52 16	-26 35.9
78	12 46 58	-25 46.0			
	12 46 58	-25 46.0			
	12 46 58	-25 46.0		12 52 19	-26 18.6
80	12 46 30	-25 33.2			
	12 46 30	-25 33.2			
	12 46 30	-25 33.2		12 51 51	-26 5.8
79	12 46 21	-25 34.6			
	12 46 21	-25 34.7			
	12 46 21	-25 37.6		12 51 42	-26 7.2
69	12 46 7	-26 15.5			
	12 46 7	-26 15.5			
	12 46 7	-26 15.5		12 41 27	-26 48.5

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NEB	α			δ		Comp. Stars						Positions in 2000 α		δ
68	12	45	39	-26	6.9	12	47	14	-26	20.5				
	12	45	39	-26	6.9	12	41	53	-25	26.3				
	12	45	39	-26	6.9							12	50	59	-26	39.8
168	12	46	13	-25	54.5									
	12	46	13	-25	54.5									
	12	46	13	-25	54.5							12	51	34	-26	27.1
170	12	45	7	-26	17.2									
	12	45	7	-26	17.3									
	12	45	7	-26	17.2							12	50	27	-26	50.1
67	12	45	14	-26	2.9									
	12	45	14	-26	2.9									
	12	45	14	-26	2.9							12	50	34	-26	35.8
66	12	43	52	-25	41.8									
	12	43	52	-25	41.8									
	12	43	52	-25	41.8							12	49	12	-26	14.5
61	12	43	12	-25	51.9									
	12	43	12	-25	51.3									
	12	43	12	-25	51.3							12	48	32	-26	24.1
62	12	42	59	-25	54.2									
	12	42	59	-25	54.3									
	12	42	59	-25	54.2							12	48	19	-26	27.0

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A 13362

NEB.	α			δ		COMP. STARS				Positions in 2000 α		δ	
63	12	42	50	-25	44.9	12 47 14	-26	30.5					
	12	42	50	-25	44.9	12 41 53	-25	26.3					
	12	42	50	-25	44.9					12	48	10	-26 17.7
64	12	42	28	-25	38.5								
	12	42	28	-25	38.4								
	12	42	28	-25	38.5					12	47	47	-26 11.3
65	12	42	21	-25	38.5								
	12	42	20	-25	38.6								
	12	42	20	-25	38.6					12	47	39	-26 11.4
60	12	42	26	-25	57.0								
	12	42	27	-25	56.9								
	12	42	26	-25	57.0					12	47	45	-26 29.8
72	12	47	36	-26	8.7	-26 9376							
	12	47	36	-26	8.7	-25 9512							
	12	47	36	-26	8.7	12 47 14	-26	30.5		12	52	56	-26 41.6
	Δα = 196"			Δδ = 51.3'		12 50 30	-25	39.2					
	= 46.0 mm			= 50.3 mm									
74	12	48	14	-26	6.2								
	12	48	14	-26	6.2								
	12	48	14	-26	6.2					12	53	35	-26 39.0
75	12	48	18	-26	6.0								
	12	48	18	-26	6.0								
	12	48	18	-26	6.0					12	53	39	-26 38.8

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NEB.	α			δ			COMP. STARS				Positions in 2000 α			δ	
76	12	48	37	-26	6.2										
	12	48	37	-26	6.2										
17.7 2 stars	~~12~~	~~48~~	~~37~~	~~-26~~	~~6.2~~										
cf H 14645															
77	12	48	18	-25	43.9										
	12	48	18	-25	43.9										
1.3	12	48	18	-25	43.9						12	53	39	-26	16.5
(83)	12	44	42	-25	22.7		-25	9483							
IC. 3813	12	44	41	-25	22.7		-25	9447							
1.4	12	44	42	-25	22.7	12	46	54	-25	43.1	12	50	2	-25	55.5
	Δα = 234"			Δδ = 22.2'		12	43	0	-25	20.9					
	= 52.8 mm			= 23.1 mm											
54	12	40	27	-25	42.0		-25	9393							
29.8	12	40	23	-25	42.0		-25	9447							
	12	40	24	-25	42.0	12	37	51	-25	57.0	12	45	43	-26	14.8
	Δα = 309"			Δδ = 36.1'		12	43	0	-25	20.9					
	= 70.4 mm			= 35.1 mm											
1.6															
57	12	40	6	-25	25.2										
	12	40	6	-25	25.1										
	12	40	6	-25	25.2						12	45	25	-25	58.0
159	12	46	11	-27	14.8		-27	8914							
39.0 IC 3829	12	46	11	-27	14.8		-27	8881							
	12	46	11	-27	14.8	12	48	54	-27	25.1	12	51	32	-27	47.6
	Δα = 260"			Δδ = 12.0'		12	44	34	-27	13.1					
	= 57.8 mm			= 13.7 mm											
8.8															

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NEB.	α	δ	COMP. STARS	Positions in 2000 α	δ
161	12 47 49	-26 55.1	-27 8881		
	12 47 49	-26 55.1	-26 9385		
	12 47 49	-26 55.1	12 44 34 -27 13.1	12 53 10	-27 28.0
	Δα = 227"	Δδ = 21.7'	12 48 21 -26 51.4		
	= 31.2 mm	= 20.1 mm			
151	12 52 13	-26 44.9	-26 9414		
NGC 4831	12 52 13	-26 44.9	-26 9427		
	12 52 13	-26 44.9	12 51 22 -26 50.6	12 57 35	-27 17.5
	Δα = 77"	Δδ = 17.6'	12 52 39 -26 33.0		
	= 17.9 mm	= 16.0 mm			
152	12 50 30	-26 17.7	-26 9376		
	12 50 30	-26 17.7	-25 9509		
	12 50 30	-26 17.7	12 47 14 -26 30.5	12 55 52	-26 50.4
	Δα = 235"	Δδ = 27.8'	12 51 9 -26 2.7		
	= 53.9 mm	= 26.9 mm			
163	12 50 21	-26 16.4			
	12 50 21	-26 16.4			
	12 50 21	-26 16.4		12 55 43	-26 49.1
164	12 50 12	-26 17.4			
	12 50 12	-26 17.4			
	12 50 12	-26 17.4		12 55 34	-26 50.1
173	12 42 44	-27 2.0	-27 8881		
	12 42 44	-27 2.0	-26 9327		
	12 42 44	-27 2.0	12 44 34 -27 13.1	12 48 4	-27 35.0
	Δα = 192"	Δδ = 35.5'	12 41 22 -26 37.6		
	= 42.8 mm	= 36.1 mm			

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NEB.	α	δ	COMP. STARS	Positions in 2000 α	Positions in 2000 δ
175	12 40 23	-26 5.7	-26 9327		
	12 40 23	-26 5.7	-25 9393		
	12 40 23	-26 5.7	12 41 22 -26 37.6	12 45 42	-26 38.7
	Δα = 211"	Δδ = 40.6'	12 37 51 -25 57.0		
	= 47.2 mm	= 41.8 mm			
183	12 25 9	-25 54.8	-26 9203		
	12 25 10	-25 54.8	-25 9281		
	12 25 10	-25 54.8	12 29 45 -26 9.2	12 30 24	-26 28.0
	Δα = 305"	Δδ = 16.7'	12 24 40 -25 52.5		
	= 69.2 mm	= 16.7 mm			
1.	12 24 12	-22 36.0	-22 9473		
N.G.C. 4462	12 24 12	-22 35.9	-21 3551		
	12 24 12	-22 36.0	12 25 53 -22 44.8	12 29 26	-23 9.2
	Δα = 83"	Δδ = 57.5'	12 24 30 -21 47.3		
	= 19.8 mm	= 49.6 mm			
2	12 25 25	-22 4.5			
	12 25 25	-22 4.4			
	12 25 25	-22 4.4		12 30 39	-22 37.6
3	12 26 7	-22 34.2	-22 9473		
	12 26 7	-22 34.2	-22 9493		
	12 26 7	-22 34.2	12 25 53 -22 44.8	12 31 21	-23 7.4
	Δα = 140"	Δδ = 18.0'	12 28 13 -22 26.8		
	= 32.8 mm	= 18.3 mm			
5	12 27 35	-22 27.8			
	12 27 35	-22 27.8			
	12 27 35	-22 27.8		12 32 49	-23 1.0

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NEB.

	α	δ	COMP. STARS	POSITIONS IN 2000 α	δ
4	12 27 2	-22 25.2	-22 9493		
	12 27 2	-22 25.3	-21 3507		
	12 27 2	-22 25.3	12 28 13 -22 26.8	12 32 16	-22 58.5
	Δα = 223"	Δδ = 39.5'	12 24 30 -21 47.3		
	= 32.5 mm	= 31.3			
186	12 25 54	-25 44.4	-26 9203		
	12 25 54	-25 44.5	-25 9286		
	12 25 54	-25 44.4	12 29 45 -26 9.2	12 31 8	-26 17.6
	Δα = 280"	Δδ = 39.0'	12 25 5 -25 30.2		
	= 61.9 mm	= 39.4 mm			
185	12 28 51	-26 5' 44.2			
	12 28 51	-26 5' 44.2			
	12 28 51	-26 5' 44.2		12 34 6	-27 17.4
184	12 28 10	-27 5.6	-27 8775		
	12 28 10	-27 5.5	-26 9180		
3 stars (cf H 14729)	~~12 28 10~~	~~-27 5.6~~	12 30 28 -27 26.2		
	Δα = 214"	Δδ = 26.0'	12 26 54 -27 0.2		
	= 48.5 mm	= 24.9 mm			
15	12 27 14	-25 25.3	-25 9334		
TRIPLE NEBULA	12 27 14	-25 25.3	-24 10411		
	12 27 14	-25 25.3	12 30 48 -25 26.5	12 32 29	-25 58.5
	Δα = 223"	Δδ = 21.0'	12 27 5 -25 5.5		
	= 51.2 mm	= 21.0 mm			

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NEB.	α	δ	COMP. STARS	Positions (in 2000 α	δ
13	12 28 11	−25 11	−24 10411		
	12 28 11	−25 1.1	−24 10435		
DEFECT cf. A 14627	~~12 28 11~~	~~−25 1.1~~	12 27 5 −25 5.5		
	Δα = 166″ = 38.0 mm	Δδ = 10.6′ = 10.6 mm	12 29 51 −24 54.9		
14	12 28 54	−25 4.1			
	12 28 54	−25 4.1			
	12 28 54	−25 4.1		12 34 9	−25 37.2
12	12 28 47	−23 20.1	−23 10627		
	12 28 47	−23 20.0	−22 9473		
	12 28 47	−23 20.0	12 32 20 −23 26.7	12 34 1	−23 53.2
	Δα = 387″ = 90.5 mm	Δδ = 41.9′ = 41.0 mm	12 25 53 −22 44.8		
6	12 28 30	−22 29.7	−22 9502		
	12 28 30	−22 29.8	−22 9493		
	12 28 30	−22 29.8	12 31 18 −22 56.5	12 33 44	−23 3.0
	Δα = 185″ = 43.3 mm	Δδ = 29.7′ = 29.5 mm	12 28 13 −22 26.8		
9	12 29 43	−22 39.8			
	12 29 43	−22 39.8			
	12 29 43	−22 39.8		12 34 57	−23 13.0
11	12 30 6	−22 51.4			
	12 30 6	−22 51.2			
	12 30 6	−22 51.3		12 35 20	−23 24.5

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NEB.

	α	δ	COMP. STARS	POSITIONS AT 2000 α	POSITIONS AT 2000 δ
7	12 24 33	-21 56.1	-22 9493 (C.DM)		
	12 29 33	-21 56.1	-21 3578 (S.D.)		
	12 29 33	-21 56.1	12 28 13 -22 26.8	12 34 47	-22 29.3
	Δα = 332″	Δδ = 30.7′	12 33 45 -21 56.1		
	= 77.2 mm	= 23.7			
27	12 33 9	-22 13.2			
	12 33 10	-22 13.2			
	12 33 10	-22 13.2		12 38 24	-22 46.4
16	12 30 21	-25 22.0	-25 9334		
	12 30 20	-25 22.0	-24 10411		
	12 30 20	-25 22.0	12 30 48 -25 26.5	12 35 36	-25 55.0
	Δα = 223″	Δδ = 21.0′	12 27 5 -25 5.5		
	= 51.2 mm	= 21.0″			
17	12 31 5	-25 13.8	-25 9334		
	12 31 5	-25 13.8	-24 10451		
	12 31 5	-25 13.8	12 30 48 -25 26.5	12 36 21	-25 46.8
	Δα = 92″	Δδ = 22.0′	12 32 20 -25 4.5		
	= 20.8 mm	= 22.4 mm			
183	12 31 5	-26 26.6	-26 9258		
	12 31 5	-26 26.6	-26 9203		
	12 31 5	-25 26.6	12 34 19 -26 41.3	12 36 21	-26 59.8
	Δα = 274″	Δδ = 32.1′	12 29 45 -26 9.2		
	= 62.0 mm	= 31.8 mm			

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000	1 FEB.	α	δ	COMP. STARS	Positions in 2 000 α	Positions in 2 000 δ
	10	12 31 14	-22 38.6	-22 9542		
		12 31 14	-22 38.6	-22 9493		
9.3		12 31 14	-22 38.6	12 33 45 -22 48.7	12 36 28	-23 11.8
		Δα = 332"	Δδ = 21.9'	12 28 13 -22 26.8		
		= 79.2 mm	= 21.3 mm			
	26	12 32 13	-22 33.3			
		12 32 13	-22 33.3			
6.4		12 32 13	-22 33.3		12 37 27	-23 6.5
	25	12 33 3	-22 53.6	-23 10627		
		12 33 3	-22 53.6	-22 9542		
5.0		12 33 3	-22 53.6	12 32 20 -23 26.7	12 38 18	-23 26.8
		Δα = 85"	Δδ = 38.0'	12 33 45 -22 48.7		
		= 21.7 mm	= 38.0 mm			
	23	12 33 6	-23 5.7			
		12 33 6	-22 5.7			
.8		12 33 6	-22 5.7		12 38 22	-23 38.8
	22	12 33 14	-23 12.9			
		12 33 14	-23 12.9			
		12 33 14	-23 12.9		12 38 30	-23 46.0
9.8	21	12 32 8	-25 34.3	-25 9386		
		12 32 8	-25 34.3	-25 9334		
		12 32 8	-25 34.3	12 36 54 -25 43.7	12 37 24	-26 7.3
		Δα = 366"	Δδ = 17.2'	12 30 48 -25 26.5		
		= 82.8 mm	= 17.0 mm			

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NEB.	α	δ	COMP. STARS	Positions in 2000 α	δ
00	12 32 38	−25 38.5	−25 9386		
	12 32 38	−25 38.5	−24 10451		
	12 32 38	−25 38.5	12 36 54 −25 43.7	12 37 54	−26 11.5
	Δα = 274″	Δδ = 39.2′	12 32 20 −25 4.5		
	= 62.2 mm	= 39.2 mm			
g	12 33 4	−25 15.0			
	12 33 4	−25 15.0			
	12 33 4	−25 15.0		12 38 20	−25 48.0
49	12 33 40	−25 36.8			
	12 33 40	−25 36.8			
	12 33 40	−25 ~~15.0~~ 36.8		12 38 56	−26 9.9
h	12 34 11	−25 13.5			
	12 34 11	−25 13.5			
	12 34 11	−25 13.5		12 39 27	−25 46.5
48	12 35 20	−25 36.3			
	12 35 20	−25 36.3			
	12 35 20	−25 36.3		12 40 37	−26 9.3
193	12 35 35	−25 24.5			
	12 35 35	−25 24.5			
	12 35 35	−25 24.5		12 40 52	−25 57.5
194	12 35 44	−25 25.9			
	12 35 44	−25 25.9			
	12 35 44	−25 25.9		12 41 1	−25 58.9

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NEB.	α	δ	COMP. STARS	POSITIONS in 2000 α	POSITIONS in 2000 δ
46	12 35 46	−25 25.0			
	12 35 46	−25 25.0			
	12 35 46	−25 25.0		12 41 3	−25 58.0
47	12 36 32	−25 16.7			
	12 36 32	−25 16.7			
	12 36 32	−25 16.7		12 41 49	−25 49.7
191	12 32 29	−26 46.0	−27 8775		
	12 32 28	−26 46.0	−26 9258		
	12 32 28	−26 46.0	12 30 28 −27 26.2	12 37 44	−27 19.2
	Δα = 231″	Δδ = 44.9	12 34 19 −26 41.3		
	= 57.8 mm	= 45.6 mm			
192	12 33 36	−26 45.5			
	12 33 36	−26 45.5			
	12 33 36	−26 45.5		12 38 53	−27 18.7
18	12 34 23	−24 54.8	−24 10457		
	12 34 23	−24 54.8	−24 10482		
	12 34 23	−24 54.8	12 32 20 −25 4.5	12 39 39	−25 28.0
	Δα = 231″	Δδ = 37.9′	12 36 11 −24 26.6		
	= 52.8 mm	= 37.9 mm			
22	12 34 57	−24 46.6			
	12 34 57	−24 46.6			
	12 34 57	−24 46.6		12 40 13	−25 19.8
19	12 35 8	−24 56.0			
	12 35 8	−24 56.0			
	12 35 8	−24 56.0		12 40 24	−25 29.2

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NEB.

	α	δ	COMP STARS	Positions in 2000 α	δ
28	12 34 27	-22 31.7	-22 9542		
	12 34 27	-22 31.7	-22 9572		
	12 34 27	-22 31.7	12 33 45 -22 48.7	12 39 42	-23 4.9
	Δα = 175"	Δδ = 37.9'	12 36 40 -22 10.8		
	= 38.2 mm	= 38.5 mm			
31	12 35 17	-23 0.5	-23 10672		
	12 35 17	-23 0.5	-22 9542		
	12 35 17	-23 0.5	12 36 26 -23 19.0	12 40 33	-23 33.5
	Δα = 161"	Δδ = 30 3'	12 33 45 -22 48.7		
	= 34.9 mm	= 30.8 mm			
45	12 36 55	-24 52.1	-24 10494		
	12 36 55	-24 52.0	-24 10482		
	12 36 55	-24 52.0	12 37 34 -25 6.5	12 42 12	-25 25.1
	Δα = 83'	Δδ = 39.9"	12 36 11 -24 466		
	= 18.8 mm	= 41.0			
36	12 36 44	-23 45.3	-23 10680		
	12 36 44	-23 45.2	-23 10672		
	12 36 44	-23 45.2	12 37 32 -23 51.9	12 42 1	-24 18.2
	Δα = 66"	Δδ = 32.9'	12 36 26 -23 19.0		
	= 10.4 mm	= 32.5 mm			
32	12 37 24	-22 13.3	-22 9600		
	12 37 24	-22 13.2	-22 9572		
	12 37 24	-22 13.2	12 39 24 -22 41.9	12 42 40	-22 46.2
	Δα = 161"	Δδ = 31.1'	12 36 40 -22 10.8		
	= 37.2 mm	= 32.1 mm			

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NEB	α	δ	COMP. STARS	POSITIONS in 2000 α	POSITIONS in 2000 δ
37	12 37 19	-24 10.2	24 10482	✓	✓
	12 37 19	-24 10.2	23 10680		
	12 37 19	-24 10.2	12 36 // -24 266	12 42 36	-24 43.3
	Δα = 81"	Δδ = 34.7'	12 37 32 -23 37.9		
	= 19.0 mm	= 30.8 mm			
38	12 37 40	-24 11.0	-24 10508		
	12 37 40	-24 11.0	-23 10680	✓	✓
	12 37 40	-24 11.0	12 38 35 -24 29.6	12 42 57	-24 44.1
	Δα = 63"	Δδ = 37.7'	12 37 32 -23 51.9		
	= 14.1 mm	= 38.7 mm			
40	12 37 58	-24 1.0			
	12 37 58	-24 1.1		✓	✓
	12 37 58	-24 1.0		12 43 15	-24 34.1
41	12 38 4	-23 57.0			
	12 38 4	-23 57.0		✓	✓
	12 38 4	-23 57.0		12 43 22	-24 29.9
39	12 38 22	-24 5.2			
	12 38 21	-24 5.3		✓	✓
	12 38 22	-24 5.3		12 43 39	-24 38.4
44	12 38 3	-24 36.4	-24 10494		
	12 38 3	-24 36.4	-24 10508	✓	✓
	12 38 3	-24 36.4	12 37 37 -25 6.5	12 43 20	-25 9.5
	Δα = 61"	Δδ = 36.9"	12 38 35 -24 29.6		
	= 14.3 mm	= 37.9 mm			

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NEB

	α	δ	Comp Stars	Positions in 2000 α	δ
52	12 37 10	-25 54.3	25 9393		
	12 37 10	-25 54.4	25 9386		
	12 37 10	-25 54.4	12 37 57 -25 57.0	12 42 28	-26 27.3
	Δα = 57"	Δδ = 13.3'	12 36 54 -25 43.7		
	= 13.0 mm	= 13.7 mm			
180	12 36 53	-27 19.0	-27 8817		
	12 36 53	-27 19.0	-26 9264		
	12 36 53	-27 19.0	12 37 20 -27 36.2	12 42 11	-27 32.0
	Δα = 122"	Δδ = 28.6'	12 35 18 -27 7.6		
	= 27.2 mm	= 27.5 mm			
179	12 38 37	-27 17.5	-27 8817		
	12 38 37	-27 17.5	-26 9297		
	12 38 37	-27 17.5	12 37 20 -27 36.2	12 43 56	-27 50.5
	Δα = 78"	Δδ = 42.7'	12 38 38 -26 53.5		
	= 17.2 mm	= 42.3 mm			
177	12 37 30	-26 16.6	-26 9305		
	12 37 30	-26 16.6	-25 9386		
	12 37 30	-26 16.6	12 39 16 -26 21.2	12 42 48	-26 49.8
	Δα = 142"	Δδ = 37.5'	12 36 54 -25 43.7		
	= 32.0 mm	= 38.7 mm			
178	12 39 55	-26 45.4	-26 9297		
	12 39 56	-26 45.4	-26 9327		
	12 39 56	-26 45.4	12 38 38 -26 53.5	12 45 15	-27 18.4
	Δα = 164"	Δδ = 15.9'	12 41 22 -26 37.6		
	= 37.0 mm	= 15.9 mm			

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Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
p	12 38 10	-25 42.7	-25 9393		
	12 38 9	-25 42.7	-25 9447		
7.3	12 38 10	-25 42.7	12 37 51 -25 57.0	12 43 28	-26 15.6
	Δα = 309″	Δδ = 36.1′	12 43 0 -25 20.9		
	= 70.4 mm	= 30.1 mm			
53	12 38 59	-25 36.5			
	12 38 58	-25 36.5			
2.0	12 38 58	-25 36.5		12 44 16	-26 9.3
55	12 41 17	-25 49.5			
	12 41 17	-25 49.5			
	12 41 17	-25 49.5		12 46 36	-26 22.3
56	12 41 24	-25 29.2			
0.5	12 41 24	-25 29.1			
	12 41 24	-25 29.2		12 46 43	-26 2.0
59	12 40 17	-25 5.8	-25 9447		
	12 40 17	-25 5.8	-24 10508		
9.8	12 40 17	-25 5.8	12 43 0 -25 20.9	12 45 36	-25 38.6
	Δα = 26.5″	Δδ = 51.3′	12 38 35 -24 29.6		
	= 60.0 mm	= 52.5 mm			
43	12 40 21	-24 33.8			
	12 40 21	-24 33.8			
8.4	12 40 21	-24 33.8		12 45 37	-25 6.8
58	12 40 30	-24 16.0			
	12 40 30	-24 16.1			
	12 40 30	-24 16.0		12 45 49	-25 48.8

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NEB	α	δ	Comp. Stars	Positions in 2000
91	12 42 22	−25 4.0	12 43 0 −25 20.9	
	12 42 22	−25 4.1	12 38 30 −24 29.6	✓ ✓
	12 42 22	−25 4.0		12 47 41 −25 36.8
35	12 39 16	−23 43.9	−23 10680	
	12 39 16	−23 43.9	−22 9626	✓ ✓
	12 39 16	−23 43.9	12 37 32 −23 51.9	12 44 34 −24 16.8
	Δα = 390″	Δδ = 49.6′	12 43 42 −23 23	
	= 85.8 mm	= 48.5 mm		
34	12 40 54	−23 32.1		
	12 40 55	−23 32.0		✓ ✓
	12 40 54	−23 32.0		12 46 12 −24 4.8
m.	12 41 1	−23 4.4		
	12 41 1	−23 4.5		✓ ✓
	12 41 1	−23 4.4		12 46 19 −23 37.2
172	12 42 16	−26 28.3	−26 9327	
	12 42 16	−26 28.3	−25 9466	✓ ✓
	12 42 16	−26 28.3	12 41 22 −26 37.6	12 47 35 −27 1.3
	Δα = 226″	Δδ = 30.6′	12 45 8 −26 7.0	
	= 51.2 mm	= 30.6 mm		
171	12 43 57	−26 24.6		
	12 43 56	−26 24.6		✓ ✓
	12 43 56	−26 24.6		12 49 16 −26 57.6

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	α	δ	Comp. Stars	Positions in 2000
42	12 42 11	−24 5.8	−24 10527	
	12 42 11	−24 5.7	−23 10751	✓ ✓
.8	12 42 11	−24 5.7	12 41 8 −24 44.6	12 47 29 −24 38.7
	Δα = 193″	Δδ = 52.3′	12 44 21 −23 52.3	
	= 46.0 mm	= 52.6 mm		
94	12 43 18	−24 23.8		
.8	12 43 18	−24 23.7		✓ ✓
	12 43 18	−24 23.7		12 48 36 −24 56.7
97	12 44 17	−24 6.2		
	12 44 17	−24 6.2		✓ ✓
.8	12 44 17	−24 6.2		12 49 36 −24 39.1
189	12 42 14	−22 36.4	−22 9627	
	12 42 14	−22 36.4	−22 9572	✓ ✓
7.2	12 42 14	−22 36.4	12 43 44 −22 41.7	12 47 31 −23 9.2
	Δα = 424″	Δδ = 30.9′	12 36 40 −22 10.8	
	= 98.1 mm	= 32.0		
102	12 43 14	−22 51.7	−22 9626	
.3	12 43 14	−22 51.7	−22 9600	✓ ✓
	12 43 14	−22 51.7	12 43 42 −23 2.3	12 48 32 −23 24.5
	Δα = 261″	Δδ = 20.4′	12 39 21 −22 41.9	
	= 60.2 mm	= 21.3 mm		
7.6				

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NEB.	α			δ		COMP. STARS	Positions in 2000 α		δ	
106	12	44	13	-21	57.7	-22 9627				
	12	44	13	-21	57.8	SD -21 3625				
	12	44	13	-21	57.8	12 43 44 -22 41.7	12	49	31	-22 30.6
	Δα = 351" = 82.5 mm			Δδ = 48.5' = 39.8 mm		12 49 35 -21 53.2				
124	12	45	17	-22	41.5					
	12	45	17	-22	41.5					
	12	45	17	-22	41.5		12	50	35	-23 14.2
105	12	45	24	-22	17.1					
	12	45	24	-22	17.1					
	12	45	24	-22	17.1		12	50	42	-22 49.8
113	12	45	31	-22	27.1					
	12	45	31	-22	27.1					
	12	45	31	-22	27.1		12	50	49	-22 39.8
108	12	45	55	-21	50.7					
	12	45	55	-21	50.7					
	12	45	55	-21	50.7		12	51	13	-22 23.5
110	12	46	1	-22	3.9					
	12	46	1	-22	3.9					
	12	46	1	-22	3.9		12	51	20	-22 36.5
123	12	47	2	-22	22.8					
	12	47	2	-22	22.8					
112	12	48	4	-22	2.7					
	12	48	4	-22	2.7					
	12	48	4	-22	2.7		12	58	24	-22 35.2

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NEB.

	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
6	18 45 11	-62 58.5	-63 4460	✓	✓
	18 45 11	-62 58.5	-62 5984		
0.6	18 45 11	-62 58.5	18 47 31 -63 0.7	18 54 29	-62 51.9
	Δα = 263"	Δδ = 2.6'	18 43 8 -62 58.1		
	= 30.6 mm	= 2.4 mm			
7	18 48 11	-62 53.7	-63 4460		
	18 48 11	-62 53.7	-62 6004	✓	✓
94.2	18 48 11	-62 53.7	18 47 31 -63 0.7	18 57 28	-62 46.9
	Δα = 106"	Δδ = 25.6'	18 44 17 -62 357		
	= 12.1 mm	= 26.1 mm			
49.8	10 18 47 41	-61 51.3	-62 5990		
	18 47 41	-61 51.2	-61 6284	✓	✓
	18 47 41	-61 51.2	18 46 28 -62 8.7	18 56 49	-61 44.4
	Δα = 96"	Δδ = 27.3'	18 48 4 -61 41.4		
9.8	= 11.9	= 27.2 mm			
	8 18 49 22	-63 46.2	-63 4464		
	18 49 21	-63 46.2	-63 4461	✓	✓
23.5	18 49 22	-63 46.2	18 51 4 -63 58.2	18 58 50	-63 39.0
	Δα = 190"	Δδ = 27.8'	18 47 53 -63 30.4		
	= 21.3 mm	= 26.3			
36.5	9 18 51 54	-63 21.4	-63 4461		
	18 51 54	-63 21.4	-63 4473	✓	✓
	18 51 54	-63 21.4	18 47 53 -63 30.4	19 1 22	-63 13.8
	Δα = 527"	Δδ = 20.7'	18 56 40 -63 9.7		
	= 59.5 mm	= 20.2 mm			
35.2					

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NEB.	α	δ	COMP. STARS	POSITIONS in 2000 α	POSITIONS in 2000 δ
10	18 55 47	-62 59.8	-63 4473		
	18 55 47	-62 59.7	-62 6020		
	18 55 47	-62 59.8	18 56 40 -63 9.7	19 5 3	-62 51.8
	Δα = 141"	Δδ = 25.3'	18 54 19 -62 44.4		
	= 15.8 mm	= 24.3 mm			
11	18 57 49	-63 4.8	-63 4473		
	18 57 49	-63 4.8	-63 4485		
	18 57 49	-63 4.8	18 56 40 -63. 9.7	19 7 17	-62 56.4
	Δα = 269"	Δδ = 11.6'	19 1 9 -62 58.1		
	= 31.1 mm	= 10.8 mm			
12	19 2 31	-61 59.8	-62 6039		
	19 2 31	-61 59.0	-61 6348		
	19 2 31	-61 59.0	18 59 41 -62 19.5	19 11 35	-61 49.8
	Δα = 185"	Δδ = 20.0	19 2 46 -61 49.5		
	= 23.1 mm	= 29.6 mm			
21	18 59 27	-62 3.0	-62 6020		
	18 59 26	-62 2.9	-61 6348		
	18 59 26	-62 3.0	18 54 19 -62 44.4	19 8 42	-61 54.2
	Δα = 507"	Δδ = 54.9'	19 2 46 -61 49.5		
	= 61.0 mm	= 53.5 mm			
20	18 54 45	-61 16.3	-61 6348		
	18 54 43	-61 16.3	-61 6305		
	18 54 44	-61 16.3	19 2 46 -61 49.5	19 3 50	-61 8.3
	Δα = 519"	Δδ = 34.1'	18 54 7 -61 15.4		
	= 61.1 mm	= 36.4 mm			

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A 5546

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
86	19 15 41	-63 51.0	-64 3992	✓	✓
	19 15 42	-63 51.0	-63 4506		
	19 15 42	-63 51.0	19 19 34 -64 2.0	19 25 4	-63 40.2
	Δα = 541"	Δδ = 57.5'	19 10 33 -63 4.5		
	= 54.6 mm	= 63.6 mm			
80	19 14 14	-63 10.6			
	19 14 15	-63 10.7		✓	✓
	19 14 14	-63 10.6		19 23 36	-62 59.8
81	19 14 49	-63 9.0			
	19 14 49	-63 9.0		✓	✓
	19 14 49	-63 9.0		19 23 41	-62 58.2
79	19 14 0	-63 6.6			
	19 14 0	-63 6.7		✓	✓
	19 14 0	-63 6.6		19 23 22	-62 55.8
3 (14 on 5453 but no pos. found)	18 30 15	-63 17.2	-63 4437		
	18 30 15	-63 17.2	-63 4439	✓	✓
	18 30 15	-63 17.2	18 29 18 -63 27.9	18 39 47	-63 12.8
	Δα = 197"	Δδ = 27.0'	18 32 35 -63 0.9		
	= 20.0 mm	= 28.8 mm			
14	19 10 25	-61 10.4	-61 6367		
	19 10 25	-61 10.4	-60 7279	✓	✓
	19 10 25	-61 10.4	19 12 18 -61 16.9	19 19 29	-61 0.4
	Δα = 302"	Δδ = 19.7'	19 7 16 -60 57.2		
	= 34.8 mm	= 22.7 mm			

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H 5546

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
13	19 9 32	-61 13.9			
	19 9 32	-61 13.9			
several stars: of H 14230.	~~19 9 32~~	~~-61 13.9~~			
(17)	19 4 21	-60 34.7	-60 7279		
= H.N. 1881	19 4 21	-60 34.7	-60 7265		
	19 (4 21)	-60 34.7	19 7 16 -60 57.2	19 13 17	-60 25.5
	Δα = 461"	Δδ = 37.3'	18 59 35 -60 19.9		
	= 60.3 mm	= 42.6 mm			
18	19 11 18	-61 1.3	-61 6367		
	19 11 18	-61 1.3	-60 7279		
= H.N. 1892	~~19 11 18~~	~~-61 1.3~~	19 12 18 -61 16.9		
	Δα = 302"	Δδ = 19.7'	19 7 16 -60 57.2		
	= 34.8 mm	= 22.7 mm			
19	19 11 26	-60 32.5	-60 7293		
= I.C. 4845	19 11 25	-60 32.5	-60 7283		
	19 11 26	-60 32.5	19 17 44 -60 42.8	19 20 18	-60 22.1
	Δα = 400"	Δδ = 21.0'	19 11 4 -60 21.8		
	= 49.5 mm	= 25.4 mm			
120	19 8 2	-60 19.2	-60 7283		
	19 8 2	-60 19.2	-60 7265		
	19 8 2	-60 19.2	19 11 4 -60 21.8	19 16 55	-60 9.6
	Δα = 689"	Δδ = 2.9'	18 59 35 -60 18.9		
	= 91.0 mm	= 8.8 mm			

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A5546

Neb.	α	δ	Comp. Stars	Positions 1900 α	Positions 1900 δ
16	19 14 31	−60 38.6	−60 7293		
	19 14 31	−60 38.6	−60 7283		
	19 14 31	−60 38.6	19 17 44 −60 42.8	19 23 21	−60 27.8
	Δα = 400″	Δδ = 21.0′	19 11 4 −60 21.8		
	= 47.7 mm	= 25.3 mm			
62	19 14 19	−60 38.6			
	19 14 19	−60 38.6			
	19 14 19	−60 38.6		19 23 9	−60 27.8
(54)	19 16 8	−60 22.4			
	19 16 8	−60 22.5			
	19 16 8	−60 22.4		19 24 58	−60 11.6
63	19 14 20	−60 23.5			
	19 14 20	−60 23.5			
	19 14 20	−60 23.5		19 23 10	−60 12.7
c	18 39 24	−61 40.8	−61 6260		
	18 39 24	−60 40.8	−60 7261		
	18 39 24	−60 40.8	18 42 33 −61 0.6	18 48 24	−60 34.8
	Δα = 249″	Δδ = 31.9′	18 38 24 −60 28.7		
	= 31.7 mm	= 30.8			
(24)	18 58 12	−60 32.1	−60 7206		
= H.N. 1871	18 58 12	−60 32.1	−60 7218		
	18 58 12	−60 32.1	18 59 46 −60 38.6	19 7 8	−60 23.7
	Δα = 509″	Δδ = 18.4′	18 51 17 −60 20.2		
	= 62.8 mm	= 19.1 mm			

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H 5546 (For Nebulae 26–31 see page 221)

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
(23)	18 54 13	−60 33.4			
= H.N. 1865	18 54 13	−60 33.4			
	18 54 13	−60 33.4		19 3 9	−60 25.4

H 4611

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
3	17 53 49	−69 14.2	−69 2828		
	17 53 49	−69 14.2	−67 3440		
	17 53 49	−69 14.2	17 56 54 −69 25.4	18 4 53	−69 15.0
	Δα = 240″	Δδ = 119.0′	17 52 54 −67 26.4		
	= 34.0 mm	= 117.0 mm			
4	18 1 0	−69 27.2	−69 2847		
	18 1 0	−69 27.2	−69 2828		
	18 1 0	−69 27.2	18 3 26 −69 29.0	18 12 4	−69 27.0
	Δα = 392″	Δδ = 3.6′	17 56 54 −69 25.4		
	= 35.0 mm	= 2.0 mm			
9	18 8 16	−69 11.4	−69 2847		
	18 8 16	−69 11.4	−68 3092		
	18 8 16	−69 11.4	18 3 26 −69 29.0	18 19 20	−69 10.2
	Δα = 421″	Δδ = 30.6′	18 10 27 −68 58.4		
	= 36.0 mm	= 34.0 mm			
21	18 11 50	−65 6.8	−65 3684		
two stars	18 11 50	−65 6.8	−64 3869		
S.F.M.	18 11 50	−65 6.8	18 14 42 −65 28.0		
	Δα = 205″	Δδ = 28.7′	18 11 17 −64 59.3		
	= 22.0 mm	= 28.5 mm			

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1930phae.proj.232DM

A 4611

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
24	18 18 7	-66 5.2	-66 3382		
two stars	18 18 7	-66 5.2	-65 3684		
L.T.M.	18 18 7	-66 5.2	18 24 57 -66 14.9		
	Δα = 615″ = 63.0 mm	Δδ = 46.9′ = 47.3 mm	18 14 42 -65 28.0		
33 a	18 18 25	-65 32.3			
	18 18 25	-65 32.3		✓	✓
	18 18 25	-65 32.3		18 28 25	-65 29.6
28	18 27 18	-65 19.6	-65 2740		
	18 27 18	-65 19.5	-64 3951	✓	✓
	18 27 18	-65 19.6	18 26 13 -65 36.4	18 37 18	-65 15.6
	Δα = 595″ = 64.4 mm	Δδ = 42.1′ = 39.8 mm	18 36 8 -64 54.3		
27	18 28 21	-65 30.6			
	18 28 20	-65 30.5		✓	✓
	18 28 20	-65 30.6		18 38 20	-65 26.6
29	18 32 5	-65 10.9			
	18 32 4	-65 10.9		✓	✓
	18 32 4	-65 10.9		18 42 ~~34~~ 26	-65 6.1
35	18 29 13	-66 45.5	-67 3591		
	18 29 14	-66 45.5	-66 3382	✓	✓
	18 29 14	-66 45.5	18 34 54 -67 1.2	18 39	-66 41.1
	Δα = 598″ = 55.8 mm	Δδ = 46.3′ = 49.9 mm	18 24 57 -66 14.9		

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1930phae.proj.2322M

116

H 461 II

NEB.	α	δ	COMP. STARS	POSITIONS IN 2000 α	POSITIONS IN 2000 δ
40	18 31 28	-67 52.9	-68 3169		
	18 31 27	-67 53.0	-67 3584		
	18 31 28	-67 53.0	18 40 58 -68 20.5	18 41 56	-67 48.2
	Δα = 663"	Δδ = 54.1'	18 29 55 -67 36.4		
	= 58.2 mm	= 58.4 mm			
33 b	18 37 12	-66 55.9	-67 3591		
	18 37 13	-66 55.9	-66 3395		
	18 37 12	-66 55.9	18 34 54 -67 1.2	18 47 24	-66 50.3
	Δα = 267"	Δδ = 26.4'	18 39 21 -66 34.8		
	= 29.9 mm	= 25.6 mm			
30	18 36 25	-65 26.4	-66 3395		
	18 36 25	-65 26.4	-65 3744		
	18 36 25	-65 26.4	18 39 21 -66 34.8	18 46 23	-65 20.8
	Δα = 657"	Δδ = 74.3'	18 28 24 -65 20.5		
	= 62.6 mm	= 78.8			
37	18 40 53	-67 26.6	-67 3605		
	18 40 53	-67 26.6	-67 3591		
	18 40 53	-67 26.6	18 48 35 -67 30.3	18 51 17	-67 20.6
	Δα = 821"	Δδ = 29.1'	18 34 54 -67 1.2		
	= 78.2 mm	= 35.8			
47	18 47 52	-64 53.2	-65 3760		
	18 47 52	-64 53.2	-64 3968		
	18 47 52	-64 53.2	18 43 41 -65 0.8	18 57 33	-64 46.4
	Δα = 349"	Δδ = 15.2'	18 49 30 -64 45.6		
	= 39.0 mm	= 12.0 mm			

#

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1930phae.proj.232CM

H 7451

H 7451

NEB	α	δ	COMP. STARS	POSITIONS 1950 α	POSITIONS 1950 δ
3	19 48 28	-54 42.6	54 9525		
	19 48 28	-54 42.6	54 9546		
	19 48 28	-54 42.6	19 47 58 -54 47.2	19 56 20	-54 27.3
	Δα = 165″ = 21.7 mm	Δδ = 28.6′ = 30.7 mm	19 50 43 -54 18.6		
2	19 49 22	-54 25.0			
	19 49 23	-54 24.9			
	19 49 22	-54 25.0		19 57 14	-54 9.4
5	20 3 21	-54 29.5	-54 9639		
	20 3 22	-54 29.4	-54 9626		
	20 3 22	-54 29.4	20 6 12 -54 33.8	20 11 9	-54 12.2
	Δα = 212″ = 31.3 mm	Δδ = 13.7′ = 13.6 mm	20 2 40 -54 20.1		
4	20 10 44	-54 42.6	-54 9642		
	20 10 44	-54 42.4	-54 9671		
	20 10 44	-54 42.5	20 7 18 -54 48.1	20 18 28	-54 24.5
	Δα = 409″ = 59.5 mm	Δδ = 25.5′ = 25.3 mm	20 14 7 -54 22.6		
3	20 21 12	-53 24.0	-53 9879		
	20 21 12	-53 24.0	-53 9868		
	20 21 12	-53 24.0	20 21 42 -53 37.3	20 28 48	-53 4.6
	Δα = 186″ = 27.0 mm	Δδ = 19.2′ = 20.2 mm	20 18 36 -53 18.1		

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(A4609) + 7451

NEB	α			δ		Comp. Stars			For other positions				
12	18	17	6	-72	11.7	73 1904			see Bk 4 p. 116				
	18	17	6	-72	11.8	72 2275			Positions in 2000				
	18	17	6	-72	11.8	18 13 45	-73	8.0	α			δ	
	Δα = 711"			Δδ = 37.6'		18 25 36	-72	12.4	18	29	18	-72	9.4
	= 45.6 mm			= 61.4 mm									

A7451 (cont.)

(2)	20	27	37	-52	13.0	-52 11706							
	20	27	36	-52	13.0	-52 11722							
	20	27	36	-52	13.0	20 25 24	-52	17.0	20	37	45	-51	53.2
	Δα = 283"			Δδ = 17.7'		20 30 7	-51	54.3					
	= 44.9 mm			= 15.2 mm									
(1)	20	29	2	-52	38.1	-52 11717							
	20	29	2	-52	38.1	-52 11723							
	20	29	2	-52	38.1	20 27 57	-52	50.3	20	39	11	-52	18.1
	Δα = 134"			Δδ = 29.9		20 30 11	-52	20.4					
	= 22.5 mm			= 28.5 mm									

A8488

	α			δ		Comp. Stars							
31	18	53	13	-45	8.0	-45 9575							
	18	53	13	-45	8.0	-44 9402							
	18	53	13	-45	8.0	18 54 18	-45	15.8	19	3	13	-45	0.2
	Δα = 254"			Δδ = 50.0'		18 50 4	-44	25.8					
	= 45.0 mm			= 50.7 mm									
26	19	1	3	-45	7.7	-45 9616							
	19	1	3	-45	7.9	-44 9483							
	19	1	3	-45	7.8	19 0 33	-45	29.0	19	11	1	-44	59.0
	Δα = 99"			Δδ = 66.6'		19 2 12	-44	22.4					
	= 20.0 mm			= 66.8 mm									

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A 5655
NEB

	α	δ	Comp. Stars	Positions in 2000 α	δ
10	18 46 29	-57 50.9	-58 7517		
	18 46 29	-57 50.9	-57 9255		
	18 46 29	-57 50.9	18 44 4 -58 13.9	18 55 1	-57 44.1
	Δα = 231"	Δδ = 39.1'	18 47 55 -57 34.8		
	= 22.8 mm	= 39.4 mm			
4	18 49 11	-57 36.0	-57 9283		
	18 49 11	-57 36.1	-57 9255		
	18 49 11	-57 36.0	18 50 43 -57 40.2	18 57 43	-57 28.8
	Δα = 168"	Δδ = 5.4'	18 47 55 -57 34.8		
	= 22.8 mm	= 5.5 mm			
8	18 49 59	-55 28.2	-55 8926		
	18 49 59	-55 28.2	-55 8941		
DEFECT : CF. A 14874	~~18 49 59~~	~~-55 28.2~~	18 49 27 -55 40.8		
	Δα = 141"	Δδ = 37.5'	18 51 48 - 55 3.3		
	= 20.1 mm	= 36.8 mm			
7	18 50 11	-55 24.8			
	18 50 11	-55 24.8			
	18 50 11	-55 24.8		18 58 27	-55 17.6
2	18 50 46	-58 34.7	-58 7530		
	18 50 46	-58 34.7	-58 7551		
DEFECT : CF. A 14874	~~18 50 46~~	~~-58 34.7~~	18 49 3 -58 48.6		
	Δα = 189"	Δδ = 17.8'	18 52 12 -58 30.8		
	= 24.9	= 17.8 mm			

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120
H 5655

NEB.	α	δ	COMP. STARS	Positions in 2000 α	δ
(1)	18 56 22	-59 6.7	-59 7430		
= H.N.1868	18 56 22	-59 6.7	-58 7577		
	18 56 22	-59 6.7	18 55 12 -59 20.3	19 5 10	-58 38.4
	Δα = 176"	Δδ = 36.4'	18 58 8 -58 43.9		
	= 24.1 mm	= 35.5 mm			
5	18 56 27	-56 1.7	-56 9073		
	18 56 27	-56 1.7	-55 8984		
	18 56 27	-56 1.7	18 55 18 -56 6.9	19 4 51	-55 53.4
	Δα = 192"	Δδ = 14.2'	18 58 30 -55 52.7		
	= 28.3 mm	= 11.7 mm			
9	18 59 44	-58 26.6	-58 7577		
	18 59 44	-58 26.6	-58 7584		
	18 59 44	-58 26.6	18 58 8 -58 43.9	19 8 20	-58 17.8
	Δα = 101"	Δδ = 29.4'	18 59 49 -58 14.5		
	= 14.0 mm	= 28.9 mm			
3	19 5 6	-58 3.3	-58 7584		
	19 5 6	-58 3.3	-58 7596		
	19 5 6	-58 3.3	18 59 49 -58 14.5	19 13 42	-57 53.9
	Δα = 420"	Δδ = 16.2'	19 6 49 -57 58.3		
	= 56.8 mm	= 13.6 mm			
12	19 7 9	-58 50.4	-58 7603		
	19 7 8	-58 50.3	-58 7591		
2 STARS : C.F. A 14874	~~19 7 8~~	~~-58 50.4~~	19 9 40 -58 53.9		
	Δα = 388"	Δδ = 28.2	19 3 12 -58 25.7		
	= 48.7 mm	= 32.0 mm			

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5605

NEB	α	δ	COMP. STARS	POSITIONS IN 2000 α	POSITIONS IN 2000 δ
II	19 6 7	-58 30.2	-58 7603		
star	19 6 6	-58 32.2	-58 7591		
	19 6 6	-58 30.2	19 9 40 -58 53.9		
	Δα = 388"	Δδ = 28.2'	19 3 12 -58 25.7		
	= 48.7 mm	= 32.0 mm			
(13)	19 7 36	-59 37.5	-59 7464		
= H.N. 1888	19 7 ? 36	-59 37.4	-58 7603		
	19 (7 36)	-59 37.4	19 4 48 -59 48.0	19 16 21	-59 27.7
	Δα = 292"	Δδ = 54.1'	19 9 40 -38 53.9		
	= 41.9 mm	= 51.8 mm			

4606

NEB	α	δ	COMP. STARS	POSITIONS IN 2000 α	POSITIONS IN 2000 δ
b	20 42 10	-68 17.9	-68 3386		
	20 42 10	-68 17.9	-68 3389		
	20 42 10	-68 17.9	20 40 10 -68 423	20 51 35	-67 56.1
	Δα = 187"	Δδ = 44.0	20 43 17 -67 58.3		
	= 14.0 mm	= 45.4 mm			
5	20 56 4	-66 32.9	-66 3515		
	20 56 4	-66 32.9	-66 3512		
	20 56 4	-66 32.9	20 57 48 -66 36.2	21 4 52	-66 9.8
	Δα = 360"	Δδ = 9.0'	20 51 48 -66 27.2		
	= 35.2 mm	= 8.6 mm			

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H4606

NEB.

	α	δ	Comp. Stars	Positions in 2000	
				α	δ
6	21 2 34	-65 55.2	-66 3510		
	21 2 35	-65 55.1	-65 3902		
	21 2 34	-65 55.2	20 57 48 -66 36.2	21 11 6	-65 31.2
	Δα = 74.5"	Δδ = 62.8'	21 10 13 -65 33.4		
	= 78.0 mm	= 61.7 mm			
3	20 59 54	-67 42.7	-68 3389		
	20 59 55	-67 42.7	-67 3776		
	20 59 56	-67 42.7	20 43 17 -67 58.3	21 8 52	-67 19.1
	Δα = 1053"	Δδ = 23.3'	21 0 50 -67 35.0		
	= 98.8 mm	= 26.8 mm			
8	21 2 17	-65 6.4	-65 3887		
	21 2 17	-65 6.2	-65 3896		
	21 2 17.	-65 6.3	21 1 38 -65 11.4	21 10 49	-64 42.3
	Δα = 290"	Δδ = 10.6'	21 6 33 -65 08		
	= 31.5 mm	= 10.1 mm			
7	21 7 49	-65 13.6	-65 3902		
	21 7 49	-65 13.7	-65 3896		
	21 7 49	-65 13.6	21 10 13 -65 334	21 16 17	-64 49.2
	Δα = 220"	Δδ = 32.6'	21 6 33 -65 0.8		
	= 21.8 mm	= 34.0 mm			
10	21 9 36	-67 28.3	-67 3788		
IC. 5094	21 9 37	-67 28.3	-66 3515		
	21 9 36	-67 28.3	21 12 20 -67 32.5	21 18 20	-67 3.5
	Δα = 872"	Δδ = 56.3'	20 57 48 -66 36.2		
	= 85.0 mm	= 58.5 mm			

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4606

NEB	α	δ	COMP STARS	POSITIONS in 2000 α	POSITIONS in 2000 δ
4	21 11 6	-67 28.3	21 12 20 -67 32.5		
	21 11 7	-67 28.3	20 57 48 -66 36.2		
	21 11 6	-67 20.3		21 19 50	-67 3.4
1	21 22 25	-68 46.8	-69 3174		
	21 22 25	-68 46.7	-68 3427		
	21 22 25	-68 46.7	21 20 55 -69 11.4	21 31 5	-68 21.7
	Δα = 165"	Δδ = 44.8'	21 23 40 -68 26.6		
	= 19.2mm	= 43.6mm			

α119

NEB	α	δ	COMP STARS	POSITIONS in 2000 α	POSITIONS in 2000 δ
22	5 21 23	-5 2.9	5 12 52		
	5 21 23	-5 2.9	4 1119		
	5 22 23	-5 2.9	5 21 47 -5 1.4	5 27 19	-4 [redacted]84
	Δα = 78"	Δδ = 26.8'	5 20 29 -4 48.6		
	= 19.0mm	= 26.2mm			
e	5 38 26	-7 2.5	-7 1153		
	5 38 26	-7 2.5	-6 1300		
	5 38 26	-7 2.5	5 37 52 -7 26.3	5 43 17	-7 5.6
	Δα = 94"	Δδ = 46.7'	5 39 26 -6 39.6		
	= 24.2mm	= 43.2mm			
34	5 39 35	-3 41.8	-3 1182		
	5 39 35	-3 41.7	-3 1183	faint star?	
	5 39 35	-3 41.7	5 38 59 -3 51.7	yes	
	Δα = 36"	Δδ = 24.2'	5 39 35 -3 42.5		
	= 8.9mm	= 24.1mm			

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3816

H 3816

NEB.	α			δ			COMP. STARS				Positions in 2000 α			δ	
3	20	57	5	−17	39.9		−17	6158							
Mengel	20	57	5	−17	39.9		−17	6165							
2056 − ~~17 40.7~~ 40.1	20	57	5	−17	39.9		20	56	45	−17 42.0	21	2	43	−17	16.6
	Δα = 89″			Δδ = 7.8′			20	58	14	−17 34.2					
	= 21.0 mm			= 8.2 mm											~~17 26.7~~
4	20	57	43	−17	39.1										
Mengel	20	57	43	−17	39.1										
2059 − 17 ~~39.8~~ 39.2	20	57	43	−17	39.1						21	3	20	−17	15.7
~~55~~	20	58	3	−17	38.4										
not a nebula	20	58	3	−17	38.3										
	20	58	3	−17	38.4										
53	20	57	32	−18	6.1		−18	5839							
	20	57	32	−18	6.1		−17	6180							
	20	57	32	−18	6.1		20	56	49	−18 21.5	21	3	10	−17	42.7
	Δα = 267″			Δδ = 33.2′			21	1	16	−17 46.4					
	= 63.7 mm			= 34.0 mm											
101	20	58	17	−18	20.2										
	20	58	17	−18	20.3										
	20	58	17	−18	20.2						21	3	56	−18	6.8
100	20	58	42	−18	12.1										
	20	58	42	−18	12.1										
	20	58	42	−18	12.1						21	4	21	−17	48.6

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H 3816

NEB	α			δ			COMP STARS				Positions in 2000				
											α			δ	
54	20	58	43	−17	58.9		20	56	49	−18 21.5					
	20	58	43	−17	58.9		21	1	16	−17 48.4					
	20	58	43	−17	58.9						21	4	21	−17	35.4
~~107~~	20	59	12	−18	16.6										
nota nebula	20	59	12	−18	16.6										
	20	59	12	−18	16.6										
110	20	59	28	−18	15.3										
	20	59	28	−18	15.3										
	20	59	28	−18	15.3						21	5	6	−17	51.8
+	20	58	13	−18	43.2		−19	6008							
not nebula	20	58	13	−18	43.3		−18	5839							
	20	58	13	−18	43.3		20	58	34	−18 55.2					
	Δα = 125"			Δδ = 33.7'			20	56	49	−18 21.5					
	= 20.3 mm			= 33.8 mm											
99	20	57	44	−17	8.9		−17	6158							
	20	57	44	−17	8.8		−16	5775							
	20	57	44	−17	8.8		20	56	45	−17 42.0	21	3	21	−16	45.4
	Δα = 104"			Δδ = 65.0'			20	58	29	−16 37.0					
	= 39.0 mm			= 66.6 mm											
5	20	57	24	−16	19.4		−17	6158							
	20	57	24	−16	19.6		−16	5773							
	20	57	24	−16	19.5		20	56	45	−17 42.0	20	59	59	−15	56.1
	Δα = 56"			Δδ = 99.7			20	57	41	−16 24.7					
	= 31.1 mm			= 101.8 mm											

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H 3816

NEB

	α			δ		Comp. Stars			Positions (n 2000			
									α			δ
108	20	59	4	−16	26.7	−16	5775					
	20	59	4	−16	26.7	−16	5798					
	20	59	4	−16	26.7	20	58 29	−16 37.0	21	4	39	−16 3.2
	Δα = 187″			Δδ = 14.6′		21	1 36	−16 22.4				
	= 31.4 mm			= 28.5 mm								
106	20	59	52	−16	24.6							
	20	59	52	−16	24.6							
	20	59	52	−16	24.6				21	5	27	−16 1.1
58	21	0	10	−16	35.0							
	21	0	10	−16	35.0							
	21	0	10	−16	35.0				21	5	45	−16 11.4
56	21	0	4	−16	24.2							
	21	0	4	−16	24.1							
	21	0	4	−16	24.2				21	5	39	−16 0.6
66	21	0	57	−16	29.2							
	21	0	57	−16	29.2							
	21	0	57	−16	29.2				21	6	32	−16 5.5
61	21	1	4	−16	30.7							
	21	1	4	−16	30.6							
	21	1	4	−16	30.6				21	6	39	−16 6.9
84	21	1	25	−17	24.0	−17	6180					
	21	1	25	−17	24.1	−17	6181					
	21	1	25	−17	24.0	21	1 46	−17 48.4	21	7	01	−17 0.2
	Δα = 25″			Δδ = 57.7″		21	1 41	−16 50.7				
	= 5.8 mm			= 59.4 mm								

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H 3816

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
71	21 0 9	−19 39.3	−20 6128		
	21 0 9	−19 39.3	−19 6014		
3.2	21 0 9	−19 39.3	21 1 9 −20 6.3	21 5 50	−19 15.7
	Δα = 96″	Δδ = 37.6′	20 59 53 −19 28.7		
	= 18.8 mm	= 38.0			
81	21 1 17	−18 14.2	−18 5865		
Merged	21 1 17	−18 14.1	−17 6180		
1	2100 − 1814.1 21 1 17	−18 14.2	21 2 26 −18 47.3	21 6 55	−17 50.4
	Δα = 70″	Δδ = 58.9′	21 1 16 −17 48.4		
	= 17.2 mm	= 58.8 mm			
11.4	103 20 59 55	−15 36.3	−16 5773		
	20 59 55	−15 36.2	−15 5897		
	20 54 55	−15 36.2	20 57 41 −16 2.4	21 00 29	−15 13.1
	Δα = 312″	Δδ = 44.2′	21 2 03 −15 18.2		
0.6	= 49.2 mm	= 79.7 mm			
	111 21 0 50	−15 27.0			
	21 0 50	−15 26.9			
5.5	21 0 50	−15 26.9		21 6 22	−15 3.2
	65 21 1 11	−15 41.2			
	21 1 11	−15 41.2			
6.9	21 1 11	−15 41.2		21 6 45	−15 17.5
	57 21 1 24	−15 34.8			
	21 1 24	−15 34.7			
0.2	21 1 24	−15 34.8		21 6 58	−15 11.1

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NEB.

	α			δ			COMP. STARS						Positions in 2000					
													α			δ		
48	21	1	49	−15	31.8		20	57	41	−16	2.4							
	21	1	49	−15	31.8		21	2	53	−15	18.2							
	21	1	49	−15	31.8								21	7	23	−15	8.0	
1	21	2	19	−15	40.6													
	21	2	19	−15	40.6													
	21	2	19	−15	40.6								21	7	53	−15	16.7	
6	21	2	47	−15	40.6													
	21	2	47	−15	40.6													
	21	2	47	−15	40.6								21	8	21	−15	16.7	
60	21	1	53	−16	29.2		−16	5804										
	21	1	53	−16	29.2		−16	5798										
	21	1	53	−16	29.2		21	3	37	−16	33.8		21	7	28	−16	5.4	
	Δα = 121″			Δδ = 11.4′			21	1	36	−16	22.4							
	= 28.2 mm			= 25.2 mm														
92	21	1	59	−16	25.7													
	21	1	59	−16	25.8													
	21	1	59	−16	25.8								21	7	34	−16	2.0	
19	21	2	34	−18	55.7		−20	6142										
	21	2	31	−18	55.6		−18	5865										
	21	2	32	−18	55.6		21	3	45	−19	52.2		21	8	11	−18	31.7	
	Δα = 79″			Δδ = 64.9′			21	2	26	−18	47.3							
	= 18.8 mm			= 65.8 mm														
76	21	3	44	−19	42.4													
	21	3	44	−19	42.3													
	21	3	44	−19	42.4								21	9	24	−19	18.3	

Mag?

2103 − 2003.3

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NEB	α	δ	COMP. STARS	POSITIONS IN 2000 α	δ
69	21 2 48	-18 15.1	-18 5865		
	21 2 48	-18 15.1	-17 6195		
8.0	21 2 48	-18 15.1	21 2 26 -18 47.3	21 8 24	-17 51.2
	Δα = 110"	Δδ = 67.5'	21 4 21 -17 39.8		
	= 8.2 mm	= 66.3 mm			
16.7					
8	21 3 59	-15 29.8	-16 5808		
	21 3 59	-15 29,7	-15 5901		
	21 3 59	-15 29.8	21 3 56 -16 4.6	21 9 30	-15 5.7
6.7	Δα = 35"	Δδ = 65.5'	21 4 31 -14 59.1		
	= 8,7 mm	= 66.7 mm			
94	21 4 6	-15 24.4			
	21 4 6	-15 24.4			
5.4	21 4 6	-15 24.4		21 9 37	-15 0.3
62	21 4 13	-16 35.0	-17 6212		
Merged	21 4 13	-16 34.8	-16 5808		
2103-16 ~~35.1~~ 35.5	21 4 13	-16 34.9	21 8 27 -17 6.7	21 9 48	-16 10.8
	Δα = 271"	Δδ = 62.1'	21 3 56 -16 4.6		
2.0	= 65.2 mm	= 61.9 mm			
63	21 4 19	-16 33.3			
Merged	21 4 18	-16 33.1			
31.7 2104-16 ~~54.1~~ 33.5	21 4 18	-16 33.2		21 9 53	-16 9.1
97	21 6 2	-17 0.8			
	21 6 2	-17 0.6			
	21 6 2	-17 0.7		21 11 37	-16 36.5
8.3					

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NEB.	α			δ			COMP. STHRS				POSITIONS IN 2000 α		δ	
10	21	5	47	-17	7.9		-17	6195						
Mengel	21	5	47	-17	7.9		-17	6212						
2104-1720.7 08.1	21	5	47	-17	7.9		21	4 21	-17	39.8	21	11	22	-16 43.7
	Δα = 246"			Δδ = 33.1'			21	8 27	-17	6.7				
	= 17.3 mm			= 35.3 mm										
98	21	6	31	-17	9.3									
	21	6	31	-17	9.3									
	21	6	31	-17	9.3						21	12	06	-16 45.0
67	21	6	36	-17	16.3									
Mengel	21	6	36	-17	16.3									
2105-1737.7 17.1	21	6	36	-17	16.3						21	12	11	-16 52.0
87	21	6	43	-19	9.3		-19	6048						
	21	6	43	-19	9.4		-18	5883						
	21	6	43	-19	9.4		21	7 5	-19	36.6	21	12	22	-18 45.1
	Δα = 39"			Δδ = 59.7'			21	6 26	-18	36.9				
	= 9.0 mm			= 59.8 mm										
68	21	6	15	-17	52.2		-18	5883						
	21	6	13	-17	52.2		-17	6195						
	21	6	14	-17	52.2		21	6 26	-18	36.9	21	11	51	-17 27.9
	Δα = 125"			Δδ = 59.1'			21	4 21	-17	39.8				
	= 47.8 mm			= 56.0 mm										
64	21	7	31	-15	46.5		-16	5824						
	21	7	31	-15	46.5		-15	5913						
	21	7	31	-15	46.5		21	9 38	-16	10.7	21	13	01	-15 22.1
	Δα = 168"			Δδ = 46.2'			21	6 50	-15	24.5				
	= 40.8 mm			= 45.0 mm										

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NEB	α	δ	Comp Stars	Positions in 2000 α	Positions in 2000 δ
79	21 6 53	−18 23.2	−18 5883		
	21 6 53	−18 25.3	−18 5892		
13.7	21 6 53	−18 25.3	21 6 26 −18 36.9	21 12 31	−18 1.0
	Δα = 178″	Δδ = 37.2′	21 9 24 −17 59.7		
	= 42.3 mm	= 37.9 mm			
78	21 7 45	−18 18.2			
	21 7 45	−18 18.2			
45.0	21 7 45	−18 18.2		21 13 23	−17 53.8
89	21 8 44	−18 7.5			
	21 8 45	−18 7.6			
52.0	21 8 45	−18 7.6		21 14 22	−17 43.1
11	21 9 11	−16 49.8	−17 6212		
	21 9 11	−16 49.7	−16 5824		
45.1	21 9 11	−16 49.8	21 8 27 −17 6.7	21 14 46	−16 25.2
	Δα = 71.″1	Δδ = 56.0′	21 9 38 −16 10.7		
	= 17.8 mm	= 57.6 mm			
75	21 9 14	−17 17.2	−17 6219		
Mag d	21 9 14	−17 17.2	−17 6212		
27.9 2108-17 17.9 ~~28.0~~	21 9 14	−17 17.2	21 10 3 −17 31.4	21 14 50	−16 52.6
	Δα = 96″	Δδ = 24.7′	21 8 27 −17 6.7		
	= 22.7 mm	= 25.4 mm			
80	21 9 8	−18 12.5	−18 5889		
	21 9 8	−18 12.4	−18 5892		
2.1	21 9 8	−18 12.4	21 8 38 −18 23.4	21 14 45	−17 47.8
	Δα = 46″	Δδ = 23.7′	21 9 24 −17 59.7		
	= 31.0 mm	= 48.4 mm			

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NEB

	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
15	21 12 12	−17 36.1	−18 5892		
	21 12 12	−17 36.1	−16 5846		
	21 12 12	−17 36.1	21 9 24 −17 59.7	21 17 48	−17 11.3
	Δα = 329″ = 80.0	Δδ = 80.7′ = 80.7 mm	21 14 53 −16 39.6		
12	21 12 39	−16 14.5	−16 5833		
Mynzel	21 12 40	−16 14.6	−15 5950		
2112 − 1635.4 (15.3)	21 12 40	−16 14.6	21 12 18 −16 19.0	21 18 13	−15 49.7
	Δα = 111″ = 27.2 mm	Δδ = 73.4′ = 73.8 mm	21 14 9 −15 5.6		
112	21 14 36	−15 12.1	−15 5961		
	21 14 36	−15 12.1	−15 5950		
	21 14 36	−15 12.1	21 16 34 −15 208	21 20 07	−15 47.0
	Δα = 145″ = 38.0 mm	Δδ = 15.2′ = 16.0 mm	21 14 9 −15 5.6		
72	21 13 24	−19 56.6	−20 6181		
	21 13 24	−19 56.5	−19 6076		
	21 13 24	−19 56.6	21 13 14 −20 9.4	21 19 03	−19 31.6
	Δα = 115″ = 28.0 mm	Δδ = 47.3′ = 47.8 mm	21 15 9 −19 22.1		
82	21 14 36	−19 32.3	−19 6071		
	21 14 36	−19 32.3	−19 6076		
	21 14 36	−19 32.5	21 13 17 −19 37.6	21 20 15	−19 7.4
	Δα = 112″ = 26.3 mm	Δδ = 15.5′ = 16.0 mm	21 15 9 −19 22.1		

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NEB.	α			δ			COMP. STARS	POSITIONS for 2000				
								α			δ	
43	21	14	40	−16	13.2		−16 5833					
~~Mengel~~	21	14	40	−16	13.2		−15 5961					
1.3	21	14	40	−16	13.2		21 12 18 −16 19.0	21	20	13	−15	48.1
	Δα = 256″			Δδ = 58.2			21 16 34 −15 20.8					
	= 65.0 mm			= 57.8								
40	21	14	58	−16	28.7		−16 5846					
Mengel	21	14	58	−16	28.8		−15 5961					
49.7 2114−16 ~~50.0~~ 29.4	21	14	58	−16	28.8		21 14 53 −16 39.0	21	20	31	−16	3.7
	Δα = 101″			Δδ = 78.2′			21 16 34 −15 20.8					
	= 28.0 mm			= 78.3 mm								
42	21	15	39	−16	17.7							
	21	15	40	−16	17.8							
47.0	21	15	40	−16	17.8			21	21	13	−15	52.6
39	21	15	51	−16	3.7							
	21	15	51	−16	3.8							
	21	15	51	−16	3.8			21	21	24	−15	38.6
31.6 16	21	16	45	−18	31.7		−19 6076					
Mengel	21	16	45	−18	31.7		−18 5924					
2116−18 ~~53.0~~ 30.6	21	16	45	−18	31.7		21 15 9 −19 22.1	21	22	22	−18	6.4
	Δα = 192″			Δδ = 83.2			21 18 21 −17 58.9					
	= 47.5 mm			= 84.7 mm								
7.4 52	21	17	17	−18	37.9							
Mengel	21	17	18	−18	34.9							
2117−18 ~~59.2~~ 36.8	21	17	18	−18	37.9			21	22	55	−18	12.6

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NEB	α	δ	Comp Stars	Positions in 2000 α	Positions in 2000 δ
51	21 17 28	-18 5.1	21 15 9 -19 22.1		
	21 17 28	-18 5.1	21 18 21 -17 58.9		
	21 17 28	-18 5.1		21 23 3	-17 39.7
36	21 18 15	-18 33.8			
	21 18 15	-18 33.8			
	21 18 15	-18 33.8		21 23 51	-18 8.4
30	21 17 16	-16 8.9	-17 6259		
	21 17 16	-16 9.0	-16 5846		
	21 17 16	-16 9.0	21 19 2 -17 32.3	21 22 49	-15 43.7
	Δα = 249"	Δδ = 53.3'	21 14 53 -16 39.0		
	= 59.6 mm	= 54.4 mm			
38	21 17 29	-16 25.5	-16 5846		
	21 17 29	-16 25.5	-16 5861		
	21 17 29	-16 25.5	21 14 53 -16 39.0	21 23 02	-16 0.2
	Δα = 300"	Δδ = 45.5'	21 19 53 -15 53.5		
	= 72.8 mm	= 45.5 mm			
23	21 19 32	-16 9.3			
	21 19 33	-16 9.3			
	21 19 32	-16 9.3		21 25 04	-15 43.7
74	21 17 0	-19 54.4	-20 6204		
	21 17 0	-19 54.4	-19 6083		
	21 17 0	-19 54.4	21 17 42 -20 6.5	21 22 39	-19 29.1
	Δα = 76"	Δδ = 27.2'	21 16 26 -19 39.3		
	= 18.0 mm	= 28.0 mm			

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MEB	α	δ	COMP. STARS	POSITIONS 1900 α	POSITIONS 1900 δ
73	21 17 34	−20 2.1			
	21 17 34	−20 2.1			
9.7	21 17 34	−20 2.1		21 23 13	−19 36.6
20	21 19 28	−18 20.5	−18 5931		
	21 19 28	−18 20.5	−18 5824		
	21 19 28	−18 20.5	21 20 3 −18 40.7	21 25 04	−17 54.9
8.4	Δα = 102″	Δδ = 41.8	21 18 21 −17 58.9		
	= 23.1 mm	= 44.5 mm			
26	21 19 46	−18 8.9			
43.7	21 19 46	−18 8.8			
	21 19 46	−18 8.8		21 25 21	−17 43.2
31	21 19 52	−17 58.7	−18 5924		
	21 19 54	−17 58.7	−17 6287		
	21 19 53	−17 58.7	21 18 21 −17 58.9	21 25 28	−17 33.1
0,2	Δα = 260″	Δδ = 34.4	21 22 43 −17 24.5		
	= 63.2 mm	= 32.0 mm			
25	21 21 24	−17 38.3			
	21 21 26	−17 38.3			
	21 21 25	−17 38.3		21 26 59	−17 12.6
43.7					
33.	21 20 5	−15 42.9	−16 5861		
	21 20 5	−15 42.9	−15 5986		
	21 20 5	−15 42.9	21 19 53 −15 53.5	21 25 36	−15 17.3
29.1	Δα = 118″	Δδ = 16.8′	21 21 51 −15 36.7		
	= 29.0 mm	= 15.8 mm			

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NEB

	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
24	21 20 55	−17 16.1	−17 6259		
	21 20 55	−17 16.0	−17 6287		
	21 20 55	−17 16.0	21 19 2 −17 32.3	21 26 29	−16 50.3
	Δα = 232″	Δδ = 41.2′	21 22 54 −16 51.1		
	= 56.4 mm	= 40.1 mm			
45	21 21 55	−16 53.2			
	21 21 55	−16 53.2			
	21 21 55	−16 53.2		21 27 28	−16 27.4
34	21 22 42	−16 57.5			
	21 22 42	−16 57.5			
	21 22 42	−16 57.5		21 28 15	−16 31.7
19	21 20 34	−18 28.0	−18 5931		
	21 20 34	−18 28.0	−18 5936		
R STARS	~~21 20 34 −18 28.0~~		21 20 3 −18 40.7		
cf. A 6544	Δα = 55″	Δδ = 21.8	21 20 58 −18 18.9		
	= 13.9 mm	= 22.0 mm			
35	21 21 36	−15 31.3	−15 5986		
	21 21 37	−15 31.3	−15 5961		
	21 21 36	−15 31.3	21 21 57 −15 36.7	21 27 07	−15 5.6
	Δα = 317″	Δδ = 17.9′	21 16 34 −15 20.8		
	= 73.9 mm	= 17.2 mm			
30	21 22 53	−16 14.3	−16 5871		
	21 22 53	−16 14.2	−16 5865		
	21 22 53	−16 14.2	21 23 27 −16 31.9	21 28 25	−15 48.4
	Δα = 75″	Δδ = 34.3′	21 22 12 −15 57.6		
	= 19.8 mm	= 36.0 mm			

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H 3816

NEB	α			δ			Comp. Stars				Positions in 2010 α			Positions in 2010 δ		
41	21	23	52	-17	50.7		-18	5936								
	21	23	52	-17	50.7		-17	6287								
50.3 R STARS cf A 6844 [8 x 10]	~~21~~	~~23~~	~~52~~	~~-17~~	~~50.7~~		21	20	58	-18	18.9					
Δα = 105″ = 26.5 mm				Δδ = 54.4 = 37.4			21	22	43	-17	24.5					
41a	21	24	12	-17	53.0											
	21	24	12	-17	53.0											
47.4	21	24	12	-17	53.0									21	29	46 -17 27.0
44	21	23	38	-16	9.1		-16	5871								
Bailey	21	23	38	-16	9.0		-16	5865								
41.7 2644	21	23	38	-16	9.0		21	23	27	-16	31.9			21	29	10 -15 43.1
Δα = 75″ = 19.9 mm				Δδ = 34.3 = 36.0 mm			21	22	12	-15	57.6					
24a	21	23	35	-18	38.3		-18	5931								
	21	23	36	-18	38.4		-18	5936								
	21	23	36	-18	38.4		21	20	3	-18	40.7			21	29	08 -18 12.5
Δα = 55″ = 13.8 mm				Δδ = 21.8′ = 22.1 mm			21	20	58	-18	18.9					
55.6																

~~H~~

H 4615

NEB.	α			δ			Comp. Stars				Positions in 2010 α			Positions in 2010 δ		
2	22	29	38	-68	18.9		-68	3505								
	22	29	38	-68	18.3		-68	3512								
	22	29	38	-68	18.3		22	26	R	-68	20.6			22	36	54 -67 47.5
48.4 Δα = 332″ = 29.8 mm				Δδ = 8.5′ = 12.2 mm			22	31	34	-68	17.1					

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NEB.

	α			δ		Comp. Stars			Positions in 2000				
									α			δ	
4	22	34	42	-68	21.2	-68	3517						
	22	34	43	-68	21.2	-68	3534						
	22	34	42	-68	21.2	22	33	34	-68	42.2	22	41	52	-67	50.0
	Δα = 545"			Δδ = 25.1'		22	42	39	-68	17.1					
	= 48.0 mm			= 29.4 mm											
3	22	36	13	-68	30.9										
	22	36	13	-68	30.9										
	22	36	13	-68	30.9						22	43	23	-67	59.7
5	22	39	14	-68	17.2										
	22	39	15	-68	17.2										
	22	39	14	-68	17.2						22	46	18	-67	45.6
1	22	37	18	-69	14.4	-69	3260								
	22	37	18	-69	14.4	-68	3517								
	22	37	18	-69	14.4	22	39	55	-69	33.1	22	40	30	-68	43.0
	Δα = 381"			Δδ = 50.9'		22	33	34	-68	42.2					
	= 38.9 mm			= 48.4 mm											
7	22	40	17	-67	32.5	-67	3922								
	22	40	17	-67	32.3	-67	3915								
	22	40	17	-67	32.4	22	42	18	-67	48.1	22	47	13	-67	0.8
	Δα = 294"			Δδ = 47.6'		22	37	24	-67	1.1					
	= 32.1 mm			= 45.0 mm											

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	Neb.	α	δ	Comp. Stars	Positions 1900 α	Positions 1900 δ
00	10	22 46 32	-69 24.3	-69 3278		
		22 46 32	-69 24.3	-69 3282		
0.0		22 46 32	-69 24.3	22 46 17 -69 41.9	22 53 32	-68 52.4
		Δα = 73″	Δδ = 31.3′	22 47 30 -69 10.6		
		= 4.8 mm	= 28.6 mm			
	8	22 49 36	-65 49.3	-66 3732		
		22 49 35	-65 49.3	-65 4094		
39.7		22 49 36	-65 49.3	22 54 12 -66 12.0	22 56 12	-65 17.3
		Δα = 390″	Δδ = 35.7′	22 47 42 -65 36.3		
		= 40.8 mm	= 34.3 mm			
45.6	23	22 53 25	-65 38.4			
		22 53 26	-65 38.4			
		22 53 26	-65 38.4		22 59 58	-65 6.2
13.0	11	22 50 56	-67 33.3	-68 3545		
		22 50 57	-67 33.2	-67 3930		
		22 50 56	-67 33.2	22 52 16 -67 56.0	22 57 40	-67 1.2
		Δα = 193″	Δδ = 35.3′	22 49 3 -67 20.7		
		= 19.4 mm	= 34.6 mm			
0.8	14a	23 4 9	-67 1.2	-67 3947		
		23 4 9	-67 1.1	-66 3763		
		23 4 9	-67 1.2	23 3 11 -67 3.4	23 10 33	-66 28.6
		Δα = 460″	Δδ = 17.9′	23 10 51 -66 45.5		
		= 46.0 mm	= 16.2 mm			

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Neb.	α	δ	Comp. Stars	Positions in 2000 α	δ
36	23 7 2	-65 40.2	-66 3747		
	23 7 3	-65 40.3	-65 4115		
	23 7 2	-65 40.2	23 4 4 -65 39.9	23 13 18	-65 7.5
	Δα = 280″	Δδ = 19.0′	23 8 45 -65 33.9		
	= 29.8 mm	= 18.0 mm			
15	23 8 13	-65 55.3	-66 3769		
	23 8 12	-65 55.3	-66 3747		
	23 8 12	-65 55.3	23 10 8 -65 58.6	23 14 28	-65 22.6
	Δα = 364″	Δδ = 5.7′	23 4 4 -65 52.9		
	= 43.3 mm	= 7.2 mm			
16	23 12 14	-66 2.3	-66 3769		
	23 12 14	-66 2.3	-66 3764		
	23 12 14	-66 2.3	23 16 56 -66 5.8	23 19 22	-65 29.5
	Δα = 408″	Δδ = 7.2′	23 10 8 -65 58.6		
	= 35.0 mm	= 9.6 mm			
18	23 12 49	-67 13.5	-67 3958		
	23 12 49	-67 13.5	-67 3962		
	23 12 49	-67 13.5	23 10 52 -67 23.1	23 19 5	-66 40.7
	Δα = 277″	Δδ = 23.3′	23 15 29 -66 39.8		
	= 26.0 mm	= 21.4 mm			
19	23 13 14	-68 1.5	-68 3563		
	23 13 14	-68 1.7	-68 3568		
	23 13 14	-68 1.6	23 7 32 -68 50.0	23 19 30	-67 28.8
	Δα = 388″	Δδ = 57.6′	23 14 0 -67 52.4		
	= 38.5 mm	= 56.5 mm			

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NEB.	α	δ	COMP. STARS	Positions in 2000 α	Positions in 2000 δ
24	23 11 14	−68 56.0	−69 3315		
	23 11 14	−68 56.0	−68 3563		
	23 11 14	−68 56.0	23 12 36 −69 1.2	23 17 32	−68 23.2
	Δα = 304″	Δδ = 11.2′	23 7 32 −68 50.0		
	= 27.0 mm	= 12.6 mm			
28	23 19 14	−68 12.3	−68 3572		
	23 19 14	−68 12.3	−68 3568		
	23 19 14	−68 12.3	23 25 58 −68 26.4	23 25 22	−67 39.5
	Δα = 718″	Δδ = 36.0′	23 14 0 −67 52.4		
	= 64.0 mm	= 42.0 mm			
26	~~23 21 51 −68 10.1~~				
star	~~23 21 50 −68 10.1~~				
27	23 23 38	−68 14.7			
	23 23 38	−68 14.7			
	23 23 38	−68 14.7		23 29 40	−67 41.8
? 23	23 18 39	−68 54.1	−69 3319		
	23 18 39	−68 54.1	−68 3571		
	23 18 39	−68 54.1	23 18 20 −69 18.3	23 24 47	−68 21.3
	Δα = 144″	Δδ = 32.5′	23 20 44 −68 45.8		
	= 16.0 mm	= 32.0 mm			
21	23 22 38	−69 40.0	−70 3004		
	23 22 38	−69 40.0	−69 3324		
	23 22 38	−69 40.0	23 18 2 −69 54.5	23 28 42	−69 7.1
	Δα = 418″	Δδ = 16.4′	23 25 0 −69 38.1		
	= 38.2 mm	= 19.6 mm			

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NEB.	α	δ	COMP. STARS	Positions 1950 α	Positions 1950 δ
33	23 19 40	−67 36.4	−68 3568		
	23 19 40	−67 36.4	−67 3966		
	23 19 40	−67 36.4	23 14 0 −67 52.4	23 25 44	−67 3.6
	Δα = 490″	Δδ = 24.8′	23 22 10 −67 27.6		
	= 48.9 mm	= 21.1 mm			
31	23 21 48	−67 32.7			
star	23 21 49	−67 32.7			
			−68 3573		
32	23 24 2	−67 32.6	−67 3966		
	23 24 3	−67 32.6	23 28 34 −67 53.5		
	23 24 2	−67 32.6			
	Δα = 384″	Δδ = 25.9′	23 22 10 −67 27.6	23 29 58	−66 59.4
	= 33.8 mm	= 30.1 mm			

H 7498

H 7498

NEB	α	δ	COMP. STARS		
2	21 32 10	−59 42.3	−60 7492		
	21 32 10	−59 42.3	−59 7724		
	21 32 10	−59 42.3	21 30 40 −59 53.4	21 39 32	−59 15.7
	Δα = 234″	Δδ = 36.3′	21 34 54 −59 17.1		
	= 26.0 mm	= 38.4 mm			
1	21 30 29	−54 53.0	−55 9645		
	21 30 29	−54 53.0	−54 9901		
	21 30 29	−54 53.0	21 31 58 −55 18.8	21 37 29	−54 26.6
	Δα = 135″	Δδ = 38.1′	21 29 43 −54 40.7		
	= 21.8 mm	= 37.2 mm			

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NEB

	α	δ	COMP. STARS	Positions in 2000 α	δ
18	21 37 44	−56 20.1	−56 9720		
	21 37 42	−56 20.1	−56 9739		
	21 37 43	−56 20.1	21 37 32 −56 35.1	21 44 49	−56 53.1
	Δα = 203″	Δδ = 25.6	21 40 55 −56 9.5		
	= 27.6 mm	= 26.5 mm			
19	21 38 40	−55 46.3	−56 9739		
	21 38 40	−55 46.3	−55 9675		
	21 38 40	−55 46.3	21 40 55 −56 9.5	21 45 40	−55 19.2
	Δα = 143″	Δδ = 25.2′	21 38 32 −55 44.3		
	= 20.9 mm	= 25.0 mm			
14	21 41 57	−58 27.6	−58 7901		
	21 41 57	−58 27.6	−58 7893		
	21 41 57	−58 27.6	21 43 16 −58 46.2	21 49 8	−58 0.3
	Δα = 239″	Δδ = 38.1′	21 39 17 −58 8.1		
	= 31.6	= 37.2 mm			
13	21 42 39	−57 53.1	−58 7901		
	21 42 39	−57 53.0	−57 9956		
	21 42 39	−57 53.0	21 43 16 −58 46.2	21 49 45	−57 25.6
	Δα = 132″	Δδ = 61.7′	21 41 4 −57 44.5		
	= 19.1 mm	= 61.6 mm			
17	21 44 1	−56 46.6	−57 9965		
	21 44 1	−56 46.6	−56 9755		
	21 44 1	−56 46.6	21 43 38 −57 15.0	21 51 1	−56 19.0
	Δα = 34″	Δδ = 31.9′	21 44 12 −56 43.1		
	= 4.1 mm	= 32.3 mm			

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NEB	α	δ	COMP. STARS	Positions in 2000 α	δ
4	21 52 48	−59 10.8	−59 7745		
	21 52 48	−59 10.8	−59 7747		
	21 52 48	−59 10.8	21 52 48 −59 30.4	21 59 34	−58 42.6
	Δα = 78″	Δδ = 38.3′	21 54 6 −58 57.1		
	= 10.5 mm	= 39.0 mm			
3	21 53 25	−59 35.4			
	21 53 25	−59 35.4			
	21 53 25	−59 35.4		22 00 31	−59 7.2
15	21 54 20	−57 21.2	−57 10006		
	21 54 21	−57 21.2	−57 10010		
	21 54 20	−57 21.2	21 52 13 −57 24.5	22 1 16	−56 52.8
	Δα = 152″	Δδ = 7.6′	21 54 45 −57 16.9		
	= 19.5 mm	= 7.6 mm			
9	21 58 25	−58 44.7	−59 7769		
	21 58 25	−58 44.8	−58 7923		
	21 58 25	−58 44.8	22 1 54 −59 22.9	22 5 22	−58 16.1
	Δα = 242″	Δδ = 69.0′	21 57 52 −58 13.9		
	= 28.9 mm	= 70.6 mm			
11	21 57 38	−58 5.3	−58 7923		
	21 57 38	−58 5.3	−57 10011		
	21 57 28	−58 5.3	21 57 52 −58 13.9	22 4 26	−57 34.7
	Δα = 172″	Δδ = 34.9′	21 55 0 −57 39.0		
	= 21.8 mm	= 36.0			

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Neb	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
12	21 57 43	-58 5.7	21 57 52 -58 13.9		
	21 57 43	-58 5.4	21 55 0 -57 39.8		
	21 57 43	-58 5.4		22 4 41	-57 36.8
10	21 57 44	-58 6.4			
	21 57 44	-58 6.4			
	21 57 44	-58 6.4		22 4 42	-57 37.8
5	22 3 11	-59 7.4	-59 7769		
	22 3 12	-59 7.4	-59 7776		
	22 3 12	-59 7.4	22 1 54 -59 22.9	22 10 10	-58 38.4
	Δα = 250"	Δδ = 20.3'	22 6 4 -59 2.6		
	= 33.2 mm	= 18.4 mm			
8	22 6 29	-58 54.2	-58 7933		
	22 6 29	-58 54.2	-57 10056		
	22 6 29	-58 54.2	22 7 48 -58 3.9	22 13 20	-58 24.9
	Δα = 199"	Δδ = 19.6'	22 4 29 -57 44.3		
	= 25.2 mm	= 21.8 mm			
16	22 5 52	-56 50.1	-57 10066		
	22 5 52	-56 50.1	-56 9820		
	22 5 52	-56 50.1	22 6 8 -56 54.4	22 12 36	-56 20.9
	Δα = 189"	Δδ = 11.4'	22 2 59 -56 43.0		
	= 23.0 mm	= 12.9 mm			
7	22 8 23	-58 45.8	-59 7776		
	22 8 23	-58 45.8	-58 7937		
	22 8 23	-58 40.8	22 6 4 -59 2.6	22 15 12	-58 16.4
	Δα = 293"	Δδ = 18.2'	22 10 11 -58 44.4		
	= 37.2 mm	= 15.9 mm			

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NEB.	α	δ	COMP. STARS	POSITIONS 1900 α	POSITIONS 1900 δ
6	22 9 22	−59 54.7	−60 7559		
	22 9 23	−59 54.7	−59 7780		
	22 9 22	−59 54.7	22 1 10 −59 59.9	22 16 6	−59 23.1
	Δα = 204″	Δδ = 12.6′	22 7 46 −59 47.3		
	= 24.5 mm	= 14.5 mm			

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A8261

A8261

NEB	α	δ	COMP STARS		
6	11 38 21	+25 57.8	+26 2251		
	11 38 21	+25 57.8	+26 2249		
	11 38 21	+25 57.8	11 39 30 +26 6.4	11 43 35	+25 24.7
	Δα = 135″	Δδ = 15.5′	11 37 15 +25 30.9		
	= 30.8 mm	= 14.5 mm			
7	11 40 36	+27 24.0	+27 2056		
	11 40 36	+27 24.0	+27 2049		
	11 40 36	+27 24.0	11 41 52 +27 29.7	11 45 50	+26 60.9
	Δα = 154″	Δδ = 32.6′	11 39 18 +26 57.1		
	= 35.2 mm	= 30.9			
4	11 39 48	+29 0.8	+29 2213		
	11 39 48	+29 0.7	+28 2033		
	11 39 48	+29 0.8	11 41 34 +29 25.2	11 45 02	+28 27.5
	Δα = 205″	Δδ = 48.8′	11 38 9 +28 36.4		
	= 46.5 mm	= 46.2 mm			

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Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
8	11 43 14	+28 11.1	+28 2049		
	11 43 14	+28 11.1	+28 2046		
	11 43 14	+28 11.1	11 45 0 +28 11.5	11 48 26	+27 37.9
	Δα = 135″ = 30.3	Δδ = 8.4′ = 18.8	11 42 45 +27 53.1		
15	11 43 15	+29 39.9	+30 2194		
	11 43 15	+29 39.9	+29 2213		
	11 43 15	+29 39.9	11 44 24 +30 35	11 48 27	+29 6.6
	Δα = 170″ = 37.3	Δδ = 38.3′ = 39.6 mm	11 41 34 +29 25.2		
10	11 45 48	+26 6.1	+26 2256		
	11 45 48	+26 6.1	+26 2260		+25 37.9
	11 45 48	+26 6.1	11 45 3 +26 18.5	11 51 01	~~+26 37.3~~
	Δα = 69″ = 15.2	Δδ = 23.2′ = 25.5	11 46 12 +25 55.3		
9	11 44 46	+30 51.1	+30 2194		
	11 44 46	+30 51.1	+29 2227		
	11 44 46	+30 51.1	11 44 24 +30 35	11 49 59	+30 17.9
	Δα = 228″ = 50.0 mm	Δδ = 206′ = 222.0 mm	11 48 12 +29 42.9		
13	11 45 0	+30 1.7			
	11 45 0	+30 1.6			
	11 45 0	+30 1.6		11 50 13	+29 28.4

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NEB

	α	δ	Comp. Stars	Positions in 2000 α	δ
14	11 50 3	+29 48.7	+30 2220		
	11 50 3	+29 48.7	+29 2232		
	11 50 3	+29 48.7	11 48 24 +29 52.8	11 55 13	+29 15.4
	Δα = 151"	Δδ = 12.3'	11 50 55 +29 40.5		
	= 33.5 mm	= 13.5 mm			
17	11 56 48	+29 58.1	+30 2212		
	11 56 48	+29 58.1	+29 2251		
	11 56 48	+29 58.1	11 56 39 +30 6.6	12 1 56	+29 24.7
	Δα = 92"	Δδ = 25.5'	11 58 11 +29 41.1		
	= 21.0 mm	= 25.5 mm			
18	11 58 59	+28 43.5	+29 2251		
	11 58 59	+28 43.5	+28 2076		
	11 58 59	+28 43.5	11 58 11 +29 41.1	12 4 06	+28 10.1
	Δα = 160"	Δδ = 57.6'	12 0 51 +28 43.5		
	= 37.0 mm	= 57.9 mm			

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	α	δ	Comp. Stars		
NEB.					
III	12 48 12	-22 10.7			
	12 48 12	-22 10.6			
	12 48 12	-22 10.6		12 53 32	-22 43.1
II	12 44 8	-23 2.0	-22 9643		
	12 44 9	-23 2.0	-22 9627		
	12 44 8	-23 2.0	12 46 32 -23 4.0	12 49 27	-23 34.8
	Δα = 168"	Δδ = 22.3'	12 43 44 -22 41.7		
	= 38.8 mm	= 24.2 mm			

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000	NEB	α	δ	COMP. STARS	POSITIONS IN 2000 α	δ
	~~130~~ 103	12 44 17	-22 52.5	12 46 32 -23 4.0		
		12 44 18	-22 52.5	12 43 44 -22 41.7		
15.4		12 44 18	-22 52.5		12 49 36	-23 25.3
	122	12 45 45	-22 48.2			
		12 45 45	-22 48.2			
		12 45 45	-22 48.2		12 51 3	-23 20.9
14.7	101	12 44 27	-23 18.3	-23 10736		
		12 44 27	-23 18.3	-22 9643		
		12 44 27	-23 18.3	12 42 53 -23 30.6	12 49 46	-23 51.1
		Δα = 219"	Δ δ = 26.6'	12 46 32 -23 4.0		
		= 51.5 mm	= 25.8			
10.1	100	12 45 18	-23 20.9			
		12 45 18	-23 21.0			
		12 45 18	-23 21.0		12 50 37	-23 53.9
	121	12 45 51	-23 9.8			
		12 45 51	-23 9.9			
		12 45 51	-23 9.8			
	98	12 44 38	-23 46.6	-23 10751		
		12 44 37	-23 46.6	-23 10707		
13.1		12 44 38	-23 46.6	12 44 21 -23 52.3	12 51 10	-23 42.6
		Δα = 325"	Δ δ = 32.3'	12 49 46 -23 20.0		
		= 76.0 mm	= 30.3			
14.8	99	12 45 38	-23 33.3			
		12 45 38	-23 33.3			
		12 45 38	-23 33.3		12 50 57	-24 6.1

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Neb.	α	δ	Comp. Stars	Positions 12 2000 α	δ
ab	12 47 38	-23 30.3	12 44 21 -23 52.3		
	12 47 38	-23 30.3	12 49 46 -23 20.0		
	12 47 38	-23 30.3		12 32 57	-24 3.1
119	12 47 44	-23 24.5			
	12 47 44	-23 24.5			
	12 47 44	-23 24.5		12 53 3	-23 57.3
93	12 44 20	-24 37.6	-24 10527		
	12 44 21	-24 37.5	-23 10782		
	12 44 20	-24 37.6	12 41 8 -24 44.6	12 49 39	-25 10.5
	Δα = 396"	Δδ = 62.3	12 47 24 -23 42.3		
	= 88.5 mm	= 61.3			
95	12 45 10	-24 28.3			
	12 45 11	-24 28.3			
	12 45 10	-24 28.3		12 50 29	-25 1.2
96	12 45 27	-24 6.7			
	12 45 28	-24 6.7			
	12 45 28	-24 6.7		12 50 47	-24 39.6
92	12 44 20	-24 47.7	-25 9447		
	12 44 20	-24 47.7	-24 10565		
	12 44 20	-24 47.7	12 43 0 -25 20.9	12 49 39	-25 20.6
	Δα = 165"	Δδ = 40.5'	12 45 45 -24 40.4		
	= 38.0 mm	= 40.2 mm			

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NEB.	α	δ	COMP STARS	POSITIONS IN 2000 α	POSITIONS IN 2000 δ
84	12 45 54	−24 57.4	−25 9493		
	12 45 54	−24 57.4	−24 10562		
	12 45 54	−24 57.4	12 48 40 −25 12.8	12 51 14	−25 30.2
	Δα = 175″	Δδ = 32.4	12 45 45 −24 40.4		
	= 39.0 mm	= 33.2			
85	12 46 46	−24 59.6			
	12 46 46	−24 59.6			
	12 46 46	−24 59.6		12 52 6	−25 32.4
87	12 47 55	−24 50.4			
	12 47 55	−24 50.4			
	12 47 55	−24 50.4		12 53 13	−25 23.2
88	12 48 15	−24 50.8			
	12 48 15	−24 50.8			
	12 48 15	−24 50.8		12 53 35	−25 23.6
158	12 46 36	−27 18.8	−27 8914		
	12 46 36	−27 18.8	−27 8881		
	12 46 36	−27 18.8	12 48 54 −27 25.1	12 51 57	−27 51.6
	Δα = 260″	Δδ = 12.0′	12 44 34 −27 13.1		
	= 57.2 mm	= 13.6 mm			
157	12 46 56	−27 20.7			
	12 46 56	−27 20.6			
	12 46 56	−27 20.6		12 52 17	−27 53.4
156	12 47 49	−27 22.5			
	12 47 49	−27 22.5			
	12 47 49	−27 22.0		12 53 11	−27 55.3

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NEB.	α	δ	COMP. STARS	Positions in 2000 α	Positions in 2000 δ
160	12 46 38	−26 58.1	−27 8881		
	12. 46 38	−26 58.1	−26 9385		
	12 46 38	−26 58.1	12 47 34 −27 13.1	12 51 58	−27 30.9
	Δα = 227″	Δδ = 21.7′	12 48 21 −26 51.4		
	= 51.0 mm	= 20.3 mm			
160a	12 47 41	−27 9.6			
	12 47 41	−27 9.6			
	12 47 41	−27 9.6		12 53 3	−27 42.4
8	12 47 32	−26 37.8	−26 9385		
	12 47 32	−26 37.8	−26 9376		
	12 47 32	−26 37.8	12 48 21 −26 51.4	12 52 52	−27 10.6
	Δα = 67″	Δδ = 20.9′	12 47 14 −26 20.5		
	= 14.4 mm	= 21.4 mm			
81	12 47 16	−25 20.5	−25 9483		
	12 47 16	−25 20.5	−25 9493		
	12 47 16	−25 20.5	12 46 54 −25 43.1	12 52 37	−25 53.1
	Δα = 106″	Δδ = 30.3′	12 48 40 −25 12.8		
	= 24.5 mm	= 30.5 mm			
82	12 48 37	−25 19.5			
	12 48 37	−25 19.5			
	12 48 37	−25 19.5		12 53 58	−26 52.1
90	12 47 12	−24 33.5	−24 10565		
	12 47 12	−24 33.5	−23 10800		
	12 47 12	−24 33.5	12 45 45 −24 40.4	12 52 32	−25 6.3
	Δα = 202″	Δδ = 37.5′	12 49 7 −24 2.9		
	= 47.0 mm	= 37.2 mm			

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NEB	α	δ	Comp Stars	Positions in 2000 α	Positions in 2000 δ
X	12 48 24	-24 4.4			
	12 48 24	-24 4.3			
~~star~~	~~12 48 24~~	~~-24 4.4~~			
[of A14718]					
115	12 46 56	-22 48.4	-22 9643		
	12 46 56	-22 48.4	-22 9651		
	12 46 56	-22 48.4	12 46 32 -23 4.0	12 52 15	-23 21.0
	Δα = 43″	Δδ = 28.7′	12 47 15 -22 35.3		
	= 10.3 mm	= 29.2 mm			
114	12 47 22	-22 43.0	-23 10707		
	12 47 22	-22 43.1	-22 9651		
	12 47 22	-22 43.0	12 49 46 -23 22.0	12 52 41	-23 15.6
	Δα = 151″	Δδ = 44.7	12 47 15 -22 35.3		
	= 34.0	= 46.0 mm			
116	12 48 4	-22 53.0			
	12 48 4	-22 53.0			
~~star~~	~~12 48 4~~	~~-22 53.0~~			
[cf. A14718]					
117	12 48 3	-23 11.9			
	12 48 2	-23 11.9			
	12 48 2	-23 11.9		12 53 22	-23 44.7
125	12 47 37	-24 1.5	-23 10800		
	12 47 37	-24 1.5	-23 10782		
	12 47 37	-24 1.5	12 49 7 -24 2.9	12 52 57	-24 34.3
	Δα = 103″	Δδ = 20.6′	12 47 24 -23 42.3		
	= 23.0 mm	= 20.9 mm			

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NEB.	α	δ	COMP. STARS	Positions in 2000 α	Positions in 2000 δ
126	12 48 48	-23 53.2	12 49 7 -24 2.9		
	12 48 48	-23 53.2	12 47 24 -23 42.3		
	12 48 48	-23 53.2		12 54 8	-24 26.0
127	12 48 57	-23 54.0			
	12 48 57	-23 54.0			
	12 48 57	-23 54.0		12 54 17	-24 26.8
165	12 49 25	-26 12.2	-26 9376		
	12 49 27	-26 12.2	-25 9509		
	12 49 26	-26 12.2	12 47 14 -26 30.5	12 54 47	-26 45.0
	Δα = 235"	Δδ = 27.8'	12 51 9 -26 2.7		
	= 53.9 mm	= 26.9 mm			
154	12 50 2	-27 7.9	-27 8914		
	12 50 2	-27 7.8	-26 9414		
	12 50 2	-27 7.8	12 48 54 -27 25.1	12 55 24	-27 40.5
	Δα = 148"	Δδ = 34.5'	12 51 22 -26 50.6		
	= 34.5 mm	= 34.0 mm			
154a	12 50 20	-27 11.4			
	12 50 20	-27 11.4			
	12 50 20	-27 11.4		12 55 42	-27 44.1
153	12 50 58	-26 57.1			
	12 50 58	-26 57.2			
	12 50 58	-26 57.2		12 56 21	-27 29.9

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NEB.	α	δ	COMP. STARS	POSITIONS IN 2000 α	POSITIONS IN 2000 δ
1.95	12 49 48	-24 20.2	-24 10641		
	12 49 48	-24 20.2	-23 10800		
26.0	12 49 48	-24 20.2	12 52 57 -24 38.3	12 55 9	-24 52.8
	Δα = 230"	Δδ = 33.4	12 49 7 -24 0.9		
	= 52.0 mm	= 36.8 mm			
26.8	141 12 50 17	-24 7.7			
	12 50 17	-24 7.7			
	12 50 17	-24 7.7		12 55 38	-24 40.3
15.0	142 12 50 42	-24 27.8			
	12 50 42	-24 27.9			
	12 50 42	-24 27.9		12 56 3	-25 0.5
	140 12 52 26	-24 13.0			
	12 52 26	-24 13.0			
10.5	12 52 26	-24 13.0		12 57 48	-24 45.4
	144 12 50 6	-24 59.6	-25 9493		
	12 50 6	-24 59.6	-24 10620		
	12 50 6	-24 59.6	12 48 40 -25 12.8	12 55 27	-25 32.2
	Δα = 165"	Δδ = 22.0'	12 51 25 -24 30.8		
14.1	= 38.2 mm	= 21.3 mm			
	133 12 50 24	-23 14.5	-23 10707		
	12 50 24	-23 14.5	-22 9690		
9.9	two stars ~~12 50 24~~	~~-23 14.5~~	12 49 46 -23 20.0		
	[cf A14718] Δα = 184"	Δδ = 49.2'	12 52 50 -22 30.8		
	= 43.5 mm	= 49.0 mm			

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Neb.	α	δ	Comp stars	Positions in 2000 α	δ
134	12 50 24	-22 38.3	12 49 46 -23 21.0		
	12 50 24	-22 38.3	12 52 50 -22 30.8		
	12 50 24	-22 38.3		12 55 44	-23 10.8
132	12 50 36	-23 12.0			
	12 50 36	-23 12.0			
star [cf H 14718]	~~12 50 36~~	~~-23 12.0~~			
137	12 51 15	-22 48.8			
	12 51 16	-22 48.9			
	12 51 16	-22 48.8		12 56 36	-23 21.3
190	12 51 47	-23 12.2			
	12 51 47	-23 12.2			
2 stars [cf H 14718]	~~12 51 47~~	~~-23 12.2~~			
131	12 51 53	-23 13.7			
	12 51 53	-23 13.7			
	12 51 53	-23 13.7		12 57 14	-23 41.3
135	12 52 55	-22 17.7	-22 9690		
I.C. 3927	12 52 55	-22 17.7	-22 9680		
	12 52 50	-22 17.7	12 52 50 -22 30.8		
	Δα = 65″	Δδ = 21.1	12 51 45 -22 9.7		
	= 15.0 mm	= 22.5 mm			
136	12 52 50	-22 20.5			
	12 52 50	-22 20.4			
	12 52 50	-22 20.4		12 58 10	-22 52.9

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A 18362
NEB.

	α	δ	COMP STARS	Positions in 2000 α	δ
128	12 50 35	-23 44.5	-23 10835		
	12 50 35	-23 44.5	-23 10707		
	12 50 35	-23 44.5	12 53 14 -23 55.0	12 55 55	-24 17.3
	Δα = 208"	Δδ = 35.0'	12 49 46 -23 20.0		
	= 47.0 mm	= 35.7 mm			
129	12 51 32	-23 45.0			
	12 51 32	-23 45.0			
	12 51 32	-23 45.0		12 56 53	-24 17.6
130	12 52 21	-23 39.1			
	12 52 21	-23 39.1			
	12 52 21	-23 39.1		12 57 42	-24 11.7
139	12 52 51	-23 54.3			
	12 52 51	-23 54.3			
	12 52 51	-23 54.3		12 58 12	-24 26.9
145	12 51 0	-25 13.0	-25 9502		
	12 51 1	-25 12.9	-24 10641		
	12 51 0	-25 13.0	12 50 30 -25 39.2	12 56 22	-25 45.4
	Δα = 147"	Δδ = 60.9'	12 52 57 -24 38.3		
	= 30.0 mm	= 61.9 mm			
149	12 51 41	-25 22.1			
	12 51 41	-25 22.0			
2 stars of A 14645	~~12 51 41~~	~~-25 22.0~~			
147	12 52 2	-25 17.8			
	12 52 2	-25 17.9			
	12 52 2	-25 17.9		12 57 24	-25 50.3

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NEB.	α	δ	Comp. Stars	Positions in 2000 α	δ
148	12 52 2	−25 27.7	12 50 30 −25 39.2		
	12 52 2	−25 27.8	12 52 57 −24 38.3		
	12 52 2	−25 27.8		12 52 24	−26 0.2
143	12 52 58	−24 39.6			
	12 52 57	−24 39.5			
	12 52 58	−24 39.6		12 58 20	−25 17.0
150	12 53 3	−26 48.7	−25 9509		
	12 53 4	−26 48.7	−25 9502		
	12 53 4	−26 48.7	12 51 9 −26 2.7	12 58 27	−27 21.3
	Δα = 39″	Δδ = 23.5′	12 50 30 −25 39.2		
	= 80 mm	= 23.5 mm			

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H 4923

H 4923

NEB.	α	δ	Comp. Stars		
7	5 12 3	−77 25.3	−78 163		
	5 12 3	−77 25.3	−77 196		
	5 12 3	−77 25.3	5 3 43 −78 19.7	5 7 23	−77 18.5
	Δα = 637″	Δδ = 60.0′	5 14 20 −77 19.7		
	= 22.3 mm	= 66.8 mm			
4	5 12 25	−77 57.5	−78 168		
	5 12 24	−77 57.5	−77 206		
	5 12 24	−77 57.5	5 10 17 −78 22.1	5 7 16	−77 50.7
	Δα = 1267″	Δδ = 54.3′	5 31 24 −77 27.8		
	= 59.5 mm	= 65.8 mm			

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	NEB.	α	δ	COMP. STARS	POSITIONS IN 2000 α	POSITIONS IN 2000 δ
000	18	5 29 17	-77 41.1	5 10 17 -78 22.1		
		5 29 16	-77 41.0	5 31 24 -77 27.8		
0,2		5 29 16	-77 41.0		5 24 16	-77 36.6
	1	5 28 17	-78 4.3			
		5 28 19	-78 4.2			
17.0		5 28 19	-78 4.2		5 22 59	-77 59.8
	2	5 29 27	-78 2.9			
		5 29 27	-78 2.9			
21.3		5 29 27	-78 2.9		5 24 7	-77 58.5
	3	5 29 47	-78 1.2			
		5 29 48	-78 1.2			
		5 29 48	-78 1.2		5 24 48	-77 56.8
	14	5 40 47	-75 42.8	-76 347		
		5 40 48	-75 42.8	-75 318		
		5 40 48	-75 42.8	5 45 33 -76 7.1	5 37 16	-75 40.0
18.5		Δα = 733"	Δδ = 54.7'	5 33 18 -75 12.4		
		= 19.2 mm	= 51.2 mm			
	10	5 43 49	-76 22.5	-76 337		
		5 43 49	-76 22.4	-76 347		
		5 43 49	-76 22.4	5 39 21 -76 57.1	5 39 53	-76 20.0
50.7		Δα = 372"	Δδ = 50.0'	5 45 33 -76 7.1		
		= 57.0 mm	= 57.6 mm			
	8	5 41 32	-76 35.0			
		5 41 33	-76 35.0			
		5 41 32	-76 35.0		5 37 20	-76 32.4

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H 4923
NEB.

	α	δ	COMP. STARS	Positions in 2000 α	Positions in 2000 δ
6	5 21 1	-78 50.0	-79 174		
	5 21 1	-78 50.0	-78 179		
	5 21 1	-78 50.0	5 18 32 -79 10.6	5 15 1	-78 44.0
	Δα = 415"	Δδ = 28.1'	5 25 27 -78 42.5		
	= 14.0 mm	= 32.0 mm			
25	5 29 52	-79 54.9	-80 148		
	5 29 54.	-79 54.9	-79 189		
	5 29 53	-79 54.9	5 22 25 -80 2.3	5 22 33	-79 50.5
	Δα = 1134	Δδ = 27.3	5 41 19 -79 32.0		
	= 46.0 mm	= 33.7 mm			
24	5 42 18	-79 30.2	-79 189		
	5 42 18	-79 31.2	-78 206		
	5 42 18	-79 30.2	5 41 19 -79 35.0	5 35 22	-79 37.8
	Δα = 656"	Δδ = 45.6'	5 52 15 -78 49.4		
	= 28.0 mm	= 47.4 mm			
30	5 44 3	-79 9.5			
	5 44 3	-79 9.5			
	5 44 3	-79 9.5		5 37 31	-79 7.1
22	5 51 12	-79 15.5			
	5 51 12	-79 15.5			
	5 51 12	-79 15.5		5 44 36	-79 14.1
19a	5 44 36	-78 3.5	-78 202		
	5 44 34	-78 3.7	-77 206		
	5 44 35	-78 3.6	5 48 10 -78 28.4	5 39 11	-78 1.4
	Δα = 1896"	Δδ = 60.6	5 31 24 -77 27.8		
	= 54.0 mm	= 56.9 mm			

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NEB.	α			δ		COMP. STARS	Positions in 2000 α			δ	
19	5	44	46	-78	5.1						
	5	44	44	-78	5.3						
	5	44	45	-78	5.2		5	39	21	-78	3.0
20a	5	46	46	-78	5.1	-78 202					
	5	46	46	-78	5.1	-77 214					
	5	46	46	-78	5.1	5 48 10 -78 28.4	5	41	22	-78	3.1
	Δα = 168"			Δδ = 44.0'		5 45 22 -77 44.4					
	= 6.0 mm			= 44.0 mm							
20b	5	47	0	-78	5.6						
	5	47	0	-78	5.6						
	5	47	0	-78	5.6		5	41	36	-78	3.6
12	5	40	7	-76	31.9	-76 337					
	5	40	7	-76	31.8	-76 340					
	5	40	7	-76	31.8	5 39 21 -76 57.1	5	33	47	-76	29.0
	Δα = 356"			Δδ = 52.5'		5 45 17 -76 4.6					
	= 16.5 mm			= 54.0 mm							
15	5	36	47	-75	40.1	-76 045					
	5	36	46	-75	40.1	-75 318					
	5	36	46	-75	40.1	5 45 17 -76 4.6	5	33	14	-75	36.9
	Δα = 719"			Δδ = 52.2'		5 33 18 -75 12.4					
	= 48.2 mm			= 48.6 mm							
19	5	41	46	-76	1.6						
	5	41	44	-76	1.5						
	5	41	45	-76	1.6		5	37	57	-75	58.9

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NEB	α	δ	Comp. Stars	Positions in 2000 α	δ
16	5 46 14	-77 31.9	-77 214		
	5 46 16	-77 31.8	-76 337		
	5 46 15	-77 31.8	5 46 47 -77 44.4	5 41 19	-77 29.8
	Δα = 561"	Δδ = 47.1'	5 37 26 -76 57.3		
	= 34.3 mm	= 45.6 mm			
17	5 47 56	-77 32.3	-77 218		
	5 47 56	-77 32.3	-76 337		
	5 47 56	-77 32.3	5 51 26 -77 33.5	5 42 56	-77 30.3
	Δα = 840"	Δδ = 36.2'	5 37 26 -76 57.3		
	= 52.8 mm	= 35.5			
21	5 52 35	-78 42.8	-78 206		
	5 52 35	-78 42.8	-78 202		
	5 52 35	-78 42.8	5 52 15 -78 49.4	5 46 33	-78 41.6
	Δα = 245"	Δδ = 21.0'	5 48 10 -78 28.4		
	= 12.5 mm	= 20.7 mm			
23	5 52 8	-79 24.9	-79 196		
	5 52 9	-79 24.9	-79 208		
	5 52 8	-79 24.9	5 50 20 -79 34.0	5 55 26	-79 23.7
	Δα = 1009"	Δδ = 21.3'	6 7 14 -79 12.7		
	= 47.2 mm	= 21.8 mm			
29	5 54 22	-79 13.6			
	5 54 23	-79 13.6			
	5 54 22	-79 13.6		5 47 34	-79 12.8

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NEB.	α	δ	COMP. STARS	POSITIONS in 2000 α	δ
31	6 4 11	-78 55.6	-79 208		
	6 4 10	-78 55.6	-78 206		
19.8	6 4 10	-78 55.6	6 7 14 -79 12.7	5 57 54	-79 56.4
	Δα = 899"	Δδ = 23.3	5 52 15 -78 49.4		
	= 44.0mm	= 23.3mm			
32	6 8 37	-77 51.1	-78 210		
	6 8 39	-77 51.1	-77 247		
30.3	6 8 38	-77 51.1	6 0 30 -78 4.8	6 3 22	-77 52.6
	Δα = 904"	Δδ = 37.4'	6 18 39 -77 27.4		
	= 50.2	= 34.2mm			
27	6 9 52	-80 9.6	-80 174		
	6 9 52	-80 9.7	-79 208		
41.6	6 9 52	-80 9.6	6 24 42 -80 15.8	6 2 8	-80 11.2
	Δα = 1048"	Δδ = 63.1'	6 7 17 -79 12.7		
	= 33.0mm	= 66.0mm			
33	6 10 29	-77 7.6	-77 247		
	6 10 27	-77 7.2	-76 368		
23.7	6 10 27	-77 7.1	6 18 39 -77 27.4	6 5 51	-77 8.7
	Δα = 679"	Δδ = 31.6'	6 7 20 -76 55.8		
	= 34.5mm	= 34.7mm			
35	6 31 24	-79 7.7	-79 217		
	6 31 24	-79 7.7	-78 238		
12.8	6 31 24	-79 7.7	6 26 28 -79 24.2	6 25 00	-79 12.3
	Δα = 1006"	Δδ = 39.5'	6 43 14 -78 44.7		
	= 54.5mm	= 32.3mm			

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NEB.	α	δ	COMP STARS	Positions in 2000 α	δ
37	6 41 51	-78 54.6			
	6 41 51	-78 54.5			
	6 41 51	-78 54.6		6 35 43	-79 0.8

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H 5188

H 5188

NEB.	α	δ	COMP. STARS	
26 ?	9 44 5	-6 41.5	-7 2899	
	9 44 5	-6 41.5	-6 3014	
	9 44 5	-6 41.5	9 44 0 -7 18.5	9 49 05 -7 9.2
	Δα = 133"	Δδ = 47.7'	9 46 13 -6 30.8	
	= 33.2 mm	= 48.0 mm		
25 ?	9 44 32	-7 1.9		
	9 44 32	-7 2.0		
	9 44 32	-7 2.0		9 49 30 -7 29.7
36	9 44 36	-5 5.5	-4 2733	
	9 44 36	-5 5.5	-4 2727	
	9 44 36	-5 5.5	9 45 5 -5 7.1	9 49 37 -5 38.3
	Δα = 71"	Δδ = 46.7'	9 43 54 -4 20.4	
	= 17.5 mm	= 46.8 mm		
37	9 44 34	-4 57.8		
	9 44 34	-4 57.8		
	9 44 34	-4 57.8		9 49 35 -5 25.6
40a	9 44 37	-4 27.6		
	9 44 37	-4 27.6		
	9 44 37	-4 27.6		9 49 38 -4 55.4

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NEB.	α	δ	COMP. STARS	POSITIONS 1930 α	δ
24	9 45 57	-7 12.1	-7 2903		
	9 45 57	-7 12.1	-6 3020		
	9 45 57	-7 12.1	9 45 20 -7 19.6	9 50 55	-7 40.0
	Δα = 161"	Δδ = 27.6'	9 48 6 -6 52.0		
	= 40.6 mm	= 29.5 mm			
20	9 47 40	-7 7.9			
	9 47 39	-7 7.9			
	9 47 40	-7 7.9		9 52 38	-7 35.9
32	9 45 56	-5 35.0	-5 2913		
	9 45 56	-5 35.0	-5 2922		
	9 45 56	-5 35.0	9 44 40 -5 48.8	9 50 56	-6 2.9
	Δα = 101"	Δδ = 23.6'	9 46 21 -5 25.2		
	= 25.8 mm	= 24.0 mm			
43	9 45 51	-4 41.7	-4 2739		
	9 45 51	-4 41.6	-3 2798		
	9 45 51	-4 41.6	9 45 38 -5 2.7	9 50 52	-5 9.5
	Δα = 73"	Δδ = 53.0'	9 46 51 -4 9.7		
	= 18.3 mm	= 53.6 mm			
40 B	9 45 56	-4 31.8			
	9 45 56	-4 31.9			
	9 45 56	-4 31.9		9 50 57	-4 59.8
44	9 46 26	-4 38.4			
	9 46 26	-4 38.3			
	9 46 26	-4 38.4		9 51 27	-5 6.3

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AJ 188
NEB

	α	δ	Comp. stars	Positions in 2000 α	δ
17	9 48 1	-7 29.5	-7 2915		
	9 48 1	-7 29.5	-7 2908		
	9 48 1	-7 29.5	9 48 34 -7 33.9	9 52 59	-7 57.5
	Δα = 98″	Δδ = 5.6′	9 46 56 -7 28.3		
	= 24.0 mm	= 5.6 mm			
31	9 48 29	-6 1.6	-6 3024		
	9 48 29	-6 1.6	-5 2927		
	9 48 29	-6 1.6	9 48 37 -6 15.1	9 53 29	-6 29.7
	Δα = 58″	Δδ = 34.8′	9 47 39 -5 40.3		
	= 14.0 mm	= 34.8 mm			
52	9 49 11	-3 31.6	-3 2811		
	9 49 11	-3 31.6	-3 2801		
	9 49 11	-3 31.6	9 50 25 -3 43.0	9 54 14	-3 59.7
	Δα = 142″	Δδ = 26.1′	9 48 3 -3 16.9		
	= 36.2 mm	= 27.3 mm			
w ?	9 50 50	-4 3.3	-4 2766		
	9 50 50	-4 3.3	-3 2811		
	9 50 50	-4 3.3	9 52 29 -4 32.8	9 55 52	-4 31.6
	Δα = 119″	Δδ = 49.8′	9 50 30 -3 43.0		
	= 30.8 mm	= 50.1			
70 ?	9 51 4	-4 2.1			
	9 51 4	-4 2.1			
	9 51 4	-4 2.1		9 56 06	-4 30.4
26	9 51 53	-4 30.0			
	9 51 53	-4 30.0			
	9 51 53	-4 30.0		9 56 55	-4 58.3

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1960phae.proj.232CM

AJ 188

NEB.	α			δ			COMP. STARS				POSITIONS IN 2000 α		δ	
15	9	51	23	−6	51.5		−7	2931						
	9	51	23	−6	51.4		−6	3031						
	9	51	23	−6	51.4		9	52	30	−7 41.9	9	56	22	−7 19.7
	Δα = 82″			Δδ = 76.9			9	51	8	−6 25.0				
	= 19.2 mm			= 71.3 mm										
0	9	51	24	−7	6.6									
	9	51	24	−7	6.4									
	9	51	24	−7	6.5						9	56	22	−7 34.8
19	9	51	50	−6	36.9									
	9	51	50	−6	36.8									
	9	51	50	−6	36.8						9	56	49	−7 5.1
14	9	52	6	−7	22.6									
	9	52	6	−7	22.5									
	9	52	6	−7	22.6						9	57	04	−7 51.0
59	9	52	7	−5	5.0		−5	2959						
	9	52	7	−5	4.6		−4	2764						
	9	52	7	−5	4.8		9	50	10	−5 18.9	9	57	8	−5 33.2
	Δα = 127″			Δδ = 36.7′			9	52	17	−4 42.0				
	= 28.5 mm			= 36.4 mm										
58	9	50	27	−5	14.7									
	9	50	27	−5	14.4									
	9	50	27	−5	14.6						9	55	28	−5 42.8

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A 5188
NEB.

	α			δ			COMP. STARS				Positions in 2000 α		δ	
54	9	53	16	−3	57.6		−4	2778						
	9	53	16	−3	57.6		−3	2822						
	9	53	16	−3	57.6		9	55	18	−4 22.6	9	58	18	−4 26.0
	Δα = 144″			Δδ = 35.3′			9	52	54	−3 47.3				
	= 36.0 mm			= 36.0 mm										
χ ??	9	54	30	−4	1.0									
	9	54	30	−4	1.0									
	9	54	30	−4	1.0						9	59	32	−4 29.5
55	9	54	37	−4	16.7									
	9	54	37	−4	16.7									
	9	54	37	−4	16.7						9	59	39	−4 45.2
m	9	55	7	−5	56.3		−5	2970						
	9	55	7	−5	56.3		−5	2965						
	9	55	7	−5	56.3		9	56	22	−6 18	10	00	07	−6 24.9
	Δα = 84″			Δδ = 17.9′			9	54	58	−5 43.9				
	= 20.8 mm			= 18.0 mm										
11 ?	9	55	52	−5	49.4									
	9	55	52	−5	49.4									
	9	55	52	−5	49.4						10	00	52	−6 18.0
66	9	55	57	−7	18.2		−7	2950						
	9	55	57	−7	18.2		−6	3056						
	9	55	57	−7	18.2		10	00	50	−7 47.2	9	59	55	−7 46.8
	Δα = 260″			Δδ = 69.9′			9	55	45	−6 37.3				
	= 64.0 mm			= 71.5 mm										

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H 5188
NEB

	α			δ			COMP. STARS				Positions, m 2000 α		δ
67	9	57	2	-7	40.4								
	9	57	2	-7	40.3								
	9	57	2	-7	40.4						10	2 00	-8 9.0
68	9	59	46	-6	11.8	-6	3067						
	9	59	46	-6	11.8	-5	2984						
	9	59	46	-6	11.8	9	59 19	-6	20.7		10	4 46	-6 40.7
	Δα = 40'			Δδ = 64.2'		10	0 4	-5	26.5				
	= 9.2 mm			= 61.0 mm									
69	10	0	13	-6	11.8								
	10	0	13	-6	11.8								
	10	0	13	-6	11.8						10	5 13	-6 40.8
10?	9	56	36	-4	16.0	-4	2782						
	9	56	36	-4	16.0	-3	2829						
	9	56	36	-4	16.0	9	57 34	-4	19.9		10	1 38	-4 44.7
	Δα = 105"			Δδ = 23.2'		9	55 49	-3	56.7				
	= 26.2 mm			= 23.5 mm									
9?	9	56	52	-4	19.4								
	9	56	52	-4	19.5								
	9	56	52	-4	19.5						10	1 54	-4 48.2
1	9	59	44	-3	46.1	-3	2851						
	9	59	44	-3	46.1	-3	2846						
	9	59	44	-3	46.1	10	1 37	-4	0.5		10	4 44	-4 15.1
	Δα = 135"			Δδ = 34.4'		9	59 22	-3	26.1				
	= 33.5 mm			= 34.4 mm									

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A5788

NEB.	α			δ			COMP. STARS				Positions in 2001 α		δ
g	10	0	48	-7	32.2		-7	2950					
	10	0	48	-7	32.2		-7	2960					
	10	0	48	-7	32.2	10	0	5	-7	47.2	10	5	47 -8 1.1
	Δα = 128"			Δδ = 13.9'		10	2	13	-7	33.3			
	= 32.0 mm			= 13.9 mm									
13	9	52	5	-8	4.8		-8	2804					
	9	52	5	-8	4.8		-7	2931					
	9	52	5	-8	4.8	9	51	49	-8	13.1	9	57	2 -8 33.1
	Δα = 41"			Δδ = 31.2'		9	52	30	-7	41.9			
	= 10.5 mm			= 31.2 mm									

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A6763

A6763

NEB.	α			δ			COMP. STARS							
4	14	16	19	+17	44.5		18	2863						
neb?	14	16	19	+17	44.6		17	2731						
	14	16	19	+17	44.6	14	16	10	+17	56.9	14	21	03 +17	17.0
	Δα = 129"			Δδ = 23.1		14	18	19	+17	33.8				
	= 30.1 mm			= 25.3 mm										
2	14	17	6	+15	31.6		+15	2699						
	14	17	6	+15	31.6		+15	2705						
	14	17	6	+15	31.6	14	16	56	+15	39.4	14	21	53 +15	3.9
	Δα = 34"			Δδ = 30.7'		14	17	30	+15	8.7				
	= 37.0 mm			= 32.1 mm										
1	14	17	17	+15	14.4									
	14	17	17	+15	14.4									
	14	17	17	+15	14.4									

14 22 04 +14 46.7

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H 6763

NEB.	α	δ	COMP. STARS	POSITIONS in 2000 α	δ
7	14 18 21	+18 44.3	+19 2801		
neb?	14 18 22	+18 44.3	+18 2881		
	14 18 22	+18 44.3	14 18 7 +18 52.1	14 23 05	+18 16.4
	Δα = 221"	Δδ = 27.8'	14 21 48 +18 24.3	49.2 / 27.0	
	= 52.0 mm	= 27.6 mm			
6	14 18 43	+18 28.6			
neb?	14 18 43	+18 28.6			
	14 18 43	+18 28.6		14 23 22	+18 1.2
9	14 20 44	+18 26.8			
	14 20 44	+18 26.8			
	14 20 44	+18 26.8		14 25 25	+17 59.5
5	14 19 43	+17 57.6	+18 2881		
	14 19 43	+17 57.6	+17 2731		
	14 19 43	+17 57.6	14 21 48 +18 24.3	14 24 26	+17 30.2
	Δα = 199"	Δδ = 50.5'	14 18 29 +17 33.8		
	= 51.3 mm	= 51.0 mm			
10	14 20 31	+17 44.3			
neb?	14 20 31	+17 44.2			
~~I.C. 4685~~	14 20 31	+17 44.2		14 25 14	+17 16.8
3	14 19 2	+17 28.0	+17 2731		
	14 19 2	+17 28.0	+17 2734		
	14 19 2	+17 28.0	14 18 21 +17 33.8	14 23 45	+17 0.5
	Δα = 76"	Δδ = 15.2'	14 19 45 +17 18.6		
	= 20.5 mm	= 16.0 mm			

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A6763

NEB.	α			δ		COMP. STARS				Positions in 2000 α		δ	
12	14	20	0	+16	37.6	+17	2730						
neb?	14	20	0	+16	37.6	+16	2648						
	14	20	0	+16	37.6	14	17 53	+17	1.2	14	24	45	+16 10.2
	Δα = 2.34″ = 56.0 mm			Δδ = 43.4′ = 45.5 mm		14	21 47	+16	17.8				
13	14	20	47	+16	25.2								
	14	20	47	+16	25.2								
	14	20	47	+16	25.2					14	25	31	+15 57.9
21	14	21	39	+17	15.0	+	17 2734						
neb?	14	21	39	+17	15.0	+	16 2652						
	14	21	89	+17	15.0	14	19 45	+17	18.6	14	26	32	+16 47.7
	Δα = 2.26′ = 53.5 mm			Δδ = 43.8′ = 45.5 mm		14	23 31	+16	34.8				
21a	14	22	43	+17	15.0								
neb?	14	22	43	+17	15.0								
	14	22	43	+17	15.0					14	26	26	+16 47.7
22a	14	21	48	+17	15.5								
neb?	14	21	47	+17	15.5								
	14	21	48	+17	15.5					14	26	31	+16 48.2
22	14	21	53	+17	15.5								
neb?	14	21	53	+17	15.5								
	14	21	53	+17	15.5					14	26	36	+16 48.2
23	14	21	48	+17	12.6								
neb?	14	21	47	+17	12.6								
	14	21	48	+17	12.6					14	26	31	+16 45.3

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H 6763 NEB.	α			δ		COMP. STARS	POSITIONS 13 2000 α			δ	
23 a	14	21	53	+17	12.6						
neb?	14	21	53	+17	12.6						
	14	21	53	+17	12.6		14	26	36	+16	45.3
18	14	21	50	+17	8.8						
	14	21	50	+17	8.8						
	14	21	50	+17	8.8		14	26	33	+16	41.5
24	14	22	5	+17	5.0						
	14	22	5	+17	4.8						
	14	22	5	+17	4.9		14	26	48	+16	37.6
112	14	22	34	+17	8.8						
neb?	14	22	34	+17	8.8						
	14	22	34	+17	8.8		14	27	17	+16	41.6
20	14	23	14	+17	16.0						
	14	23	14	+17	15.8						
	14	23	14	+17	15.9		14	27	57	+16	48.8
26	14	23	25	+17	7.9						
	14	23	25	+17	7.8						
	14	23	25	+17	7.8		14	28	08	+16	40.7
27	14	23	29	+16	50.1						
neb?	14	23	29	+16	50.6						
	14	23	29	+16	50.0		14	28	13	+16	23.1

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A6763
NEB.

	α	δ	COMP. STARS	POSITIONS IN 8000 α	δ
33	14 21 30	+19 54.7	+20 2975		
	14 21 30	+19 54.7	+19 2808		
	14 21 30	+19 54.7	14 20 19 +20 3.9	14 26 10	+19 27.4
	Δα = 84"	Δδ = 51.8'	14 21 43 +19 12.1		
	= 18.8 mm	= 46.8 mm			
111	14 21 39	+16 3.4	+16 2648		
	14 21 39	+16 3.4	+15 2723		
	14 21 39	+16 3.4	14 21 47 +16 17.8	14 26 21	+15 36.2
	Δα = 182"	Δδ = 44.3'	14 24 49 +15 33.5		
	= 43.5 mm	= 41.5 mm			
a	14 23 33	+15 50.6			
neb??	14 23 32	+15 50.5			
	14 23 32	+15 50.6		14 28 17	+15 23.6
84	14 23 44	+19 59.6	+20 2981		
neb?	14 23 44	+19 59.6	+19 2808		
	14 23 44	+19 59.6	14 25 15 +20 7.8	14 28 24	+19 32.4
	Δα = 212"	Δδ = 55.7'	14 21 43 +19 12.1		
	= 51.2 mm	= 49.8 mm			
66	14 24 0	+19 41.8			
neb?	14 24 0	+19 41.7			
	14 24 0	+19 41.8		14 28 40	+19 14.6
113	14 24 1	+19 30.6			
neb?	14 24 1	+19 30.5			
	14 24 1	+19 30.6		14 28 41	+19 3.4

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176763

NEB	α	δ	COMP. STARS	POSITIONS 1900 α	POSITIONS 1900 δ
b	14 24 11	+19 47.7			
neb?	14 24 11	+19 47.7			
	14 24 11	+19 47.7		14 28 51	+19 20.5
29	14 23 26	+17 37.5	+18 2881		
	14 23 26	+17 37.2	+17 2744		
	14 23 26	+17 37.2	14 21 48 +18 24.3	14 28 9	+17 10.1
	Δα = 247"	Δδ = 49.9'	14 25 35 +17 34.4		
	= 38.2 mm	= 33.2 mm			
30	14 23 34	+17 37.8			
	14 23 34	+17 37.7			
	14 23 34	+17 37.8		14 28 17	+17 10.7
32	14 23 45	+18 1.7			
	14 23 45	+18 1.6			
	14 23 45	+18 1.6		14 28 26	+17 34.6
31	14 23 57	+18 0.7			
	14 23 57	+18 0.6			
	14 23 57	+18 0.6		14 28 38	+17 33.6
37	14 25 26	+15 19.0	+15 2723		
	14 25 26	+15 19.0	+15 2729		
	14 25 26	+15 19.0	14 24 49 +15 33.5	14 30 11	+14 52.1
	Δα = 266"	Δδ = 23.5'	14 29 15 +15 10.0		
	= 64.0 mm	= 27.9 mm			
75	14 26 2	+14 58.8			
	14 26 2	+14 58.8			
	14 26 2	+14 58.8		14 30 49	+14 31.9

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A 6763

NEB.	α			δ			Comp. stars				Positions in 2000 α		δ	
36	14	25	38	+17	2	3.4	+17	2744						
neb?	14	25	38	+17	2	3.5	+17	2753						
	14	25	38	+17	2	3.4	14	25 55	+17	34.4	14	30	20	+16 56.8
	Δα = 106″			Δδ = 41.9′			14	27 41	+16	52.3				
	= 25.0 mm			= 42.0 mm										
47	14	26	46	+17	2.5									
neb?	14	26	46	+17	2.5									
	14	26	46	+17	2.5						14	31	28	+16 35.9
58	14	27	13	+17	13.5									
neb?	14	27	14	+17	13.5									
	14	27	14	+17	13.5						14	31	56	+16 46.9
59	14	27	23	+17	18.4									
	14	27	23	+17	18.4									
	14	27	23	+17	18.4						14	32	05	+16 51.8
38	14	27	32	+17	28.6									
	14	27	32	+17	28.6									
	14	27	32	+17	28.6						14	32	14	+17 2.0
60	14	28	50	+17	29.1		+17	2755						
	14	28	50	+17	29.1		+17	2761						
	14	28	50	+17	29.1		14	28 31	+17	36.8	14	33	32	+17 8.6
	Δα = 270″			Δδ = 25.6′			14	33 1	+17	11.2				
	= 64.8 mm			= 25.0 mm										
61	14	28	56	+17	26.6									
	14	28	56	+17	26.6									
	14	28	56	+17	26.6						14	33	38	+17 0.1

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A 6763

Neb.	α			δ			Comp. stars	Positions in 2000 α			δ	
55	14	32	14	+17	28.6							
	14	32	14	+17	28.6							
	14	32	14	+17	28.6			14	36	55	+17	2.3
65	14	28	50	+19	35.6		+20 2985					
	14	28	50	+19	35.4		+19 2821					
	14	28	50	+19	35.5		14 28 9 +20 0.2	14	33	29	+19	8.8
	Δα = 71"			Δδ = 36.2'			14 29 20 +19 24.0					
	= 16.5 mm			= 30.0 mm								
45	14	29	37	+16	42.6		+17 2753					
not?	14	29	37	+16	42.6		+16 2670					
	14	29	37	+16	42.6		14 27 41 +16 52.5	14	34	20	+16	16.2
	Δ α = 193"			Δ δ = 31.5'			14 30 54 +16 21.0					
	= 46.5 mm			= 32.0 mm								
44	14	30	10	+16	48.5							
	14	30	10	+16	48.6							
	14	30	10	+16	48.6			14	34	53	+16	22.2
43	14	30	19	+16	49.5							
not?	14	30	19	+16	49.6							
	14	30	19	+16	49.6			14	35	02	+16	23.2
48	14	30	10	+16	29.9							
	14	30	10	+16	29.9							
	14	30	10	+16	29.9			14	34	53	+16	3.5
49	14	30	23	+16	26.9							
	14	30	23	+16	26.9							
	14	30	23	+16	26.9			14	35	06	+16	0.5

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A6763
NEB.

	α	δ	COMP. STARS	Positions in 2000 α	δ
40	14 29 45	+18 14.7	+18 2904		
	14 29 46	+18 14.8	+17 2855		
	14 29 46	+18 14.8	14 33 13 +18 263	14 34 26	+17 48.1
	Δα = 282″	Δδ = 49.5′	14 28 31 +17 36.8		
	= 68.0 mm	= 51.0			
46	14 30 0	+17 58.1			
neb?	14 30 0	+17 58.2			
	14 30 0	+17 58.2		14 34 42	+17 31.7
67	14 31 7	+18 21.5			
neb?	14 31 7	+18 21.5			
	14 31 7	+18 21.5		14 35 47	+17 55.1
57	14 31 50	+18 20.0			
	14 31 50	+18 20.0			
	14 31 50	+18 20.0		14 36 30	+17 53.5
63	14 29 55	+18 58.6	+20 2985		
neb?	14 29 55	+18 58.6	+19 2829		
	14 29 55	+18 58.6	14 28 9 +20 0.2	14 34 35	+18 31.9
	Δα = 283″	Δδ = 67.9′	14 32 52 +18 55.3		
	= 67.0 mm	= 59.0 mm			
66	14 30 28	+19 9.2			
	14 30 28	+19 9.1			
	14 30 28	+19 9.2		14 35 07	+18 42.5
64	14 31 25	+19 41.0			
	14 31 25	+19 40.9			
	14 31 25	+19 41.0		14 36 04	+19 14.3

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H 6763

	NEB.	α	δ	COMP. STARS	POSITIONS IN 2000 α	δ
000	73	14 31 10	+16 5.2	+17 2753		
	neb?	14 31 9	+16 5.2	+16 2676		
18.1		14 31 10	+16 5.2	14 27 41 +16 52.7	14 35 53	+15 39.0
		Δα = 379"	Δδ = 56.4'	14 34 0 +15 56.3		
		= 91.0 mm	= 57.0 mm			
	51	14 31 11	+16 19.1			
	neb?	14 31 11	+16 19.1			
31.7		14 31 11	+16 19.1		14 35 54	+15 52.9
	53	14 31 21	+16 49.7			
	neb??	14 31 22	+16 49.7			
55.1		14 31 22	+16 49.7		14 36 05	+16 23.5
	52	14 32 11	+16 35.4			
	neb?	14 32 12	+16 35.3			
53.5		14 32 12	+16 35.4		14 36 54	+16 9.3
	69	14 32 50	+16 21.5			
		14 32 50	+16 21.5			
31.9		14 32 50	+16 21.5		14 37 32	+15 55.4
	79	14 33 28	+17 53.0	+18 2904		
		14 33 28	+17 52.9	+17 2769		
		14 33 28	+17 53.0	14 33 13 +18 26.3	14 38 09	+17 26.9
		Δα = 189"	Δδ = 56.7'	14 36 22 +17 29.6		
42.5		= 44.5 mm	= 57.4 mm			
	80	14 33 40	+18 2.3			
		14 33 39	+18 2.4			
14.3		14 33 40	+18 2.4		14 38 20	+17 36.1

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H 6163
NEB

	α			δ	Comp. Stars	Positions in 2000 α	δ
84	14	33	36	+18 15.2	14 33 13 +18 26.3		
neb?	14	33	36	+18 15.2	14 36 22 +17 29.6		
	14	33	36	+18 15.2		14 38 16	+17 48.9
84a	14	33	41	+18 14.2			
neb?	14	33	41	+18 14.3			
	14	33	41	+18 14.3		14 38 21	+17. 48.0
85	14	33	53	+18 12.3			
neb?	14	33	53	+18 12,3			
	14	33	53	+18 12.3		14 38 33	+17 46.0
85a	14	33	55	+18 13.2			
neb?	14	33	55	+18 13.2			
	14	33	55	+18 13.2		14 38 35	+17 46.9
86	14	34	14	+18 15.7			
neb?	14	34	14	+18 15.7			
	14	34	14	+18 15.7		19 38 54	+17 49.5
81	14	34	21	+18 4.3			
	14	34	21	+18 4,4			
	14	34	21	+18 4.4		14 39 01	+17 38.2
39	14	29	53	+20 18,8	+20 29 55		
neb?	14	29	53	+20 18.8	+20 29 85		
	14	29	53	+20 18.8	14 32 11 +20 32.0	14 34 30	+19 52.3
	Δα = 2.42"			Δδ = 31.8'	14 28 9 +20 02		
	= 57.0 mm			= 20.8 mm			

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H 6763.

	NEB	α	δ	Comp. Stars	Positions in 2000 α	δ
00	78	14 34 43	+17 27.1	+17 2769		
		14 34 43	+17 27.1	+17 2761		
48.9		14 34 43	+17 27.1	14 36 22 +17 29.6	14 39 24	+17 1.0
		Δα = 201″	Δδ = 18.4	14 33 1 +17 11.2		
		= 47.8	= 18.4			
48.0	87	14 34 31	+19 10.8	+20 3008		
	neb?	14 34 31	+19 10.7	+19 2829		
		14 34 31	+19 10.8	14 36 45 +20 19.8	14 39 09	+18 44.6
		Δα = 233″	Δδ = 84.5′	14 32 52 +14 55.3		
46.0		= 54.8 mm	= 78.0			
	88	14 34 37	+20 14.6			
		14 34 37	+20 14.6			
46.9		14 34 37	+20 14.6		14 39 13	+19 48.7
	89	14 34 48	+19 41.0			
		14 34 48	+19 41.0			
49.5		14 34 48	+19 41.0		14 39 26	+19 24.8
	115	14 31 53	+15 5.7	+15 2729		
		14 31 53	+15 5.7	+15 2739		
38.2		14 31 53	+15 6.7	14 29 15 +15 10.0	14 36 48	+14 39.1
		Δ α = 294″	Δ δ = 16.8′	14 34 9 +14 53.2		
		= 70.8 mm	= 17.5 mm			
52.3	110	14 35 42	+15 14.5	+15 2748		
		14 35 42	+15 14.5	+15 2741		
		14 35 42	+15 14.5	14 37 58 +15 45.5	14 40 26	+14 48.3
		Δα = 191′	Δδ = 41.3′	14 34 49 +15 4.2		
		= 46.5 mm	= 42.6 mm			

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A 6763
NEB.

	α	δ	Comp. Stars	Positions in 2000 α	δ
93	14 37 21	+15 29.9	14 37 58 +15 45.5		
	14 37 21	+15 29.8	14 34 47 +15 4.2		
	14 37 21	+15 29.8		14 42 05	+15 3.8
92	14 36 1	+19 1.2	+19 2834		
	14 36 1	+19 1.2	+19 2842		
	14 36 1	+19 1.2	14 34 15 +19 21.2	14 40 39	+18 35.2
	Δα = 161"	Δδ = 26.4'	14 36 56 +18 34.8		
	= 42.0 mm	= 26.0 mm			
90	14 36 41	+19 31.7	+19 2858		
neb?	14 36 42	+19 31.6	+19 2834		
	14 36 42	+19 31.6	14 41 22 +19 31.8	14 41 20	+19 5.6
	Δα = 427"	Δδ = 10.6'	14 34 15 +19 21.2		
	= 100.5	= 12.6 mm			
104	14 37 24	+19 26.1			
neb?	14 37 25	+19 26.1			
	14 37 24	+19 26.1		14 42 01	+19 0.2
108	14 39 34	+19 26.1			
neb?	14 39 35	+19 26.1			
	14 39 34	+19 26.1		14 44 11	+19 0.5
100	14 37 44	+17 5.8	+17 2769		
neb?	14 37 45	+17 5.9	+16 2689		
	14 37 44	+17 5.8	14 36 22 +17 29.6	14 42 24	+16 4.2
	Δα = 255"	Δδ = 43.1	14 40 37 +16 46.5		
	= 61.8 mm	= 44.0 mm			

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#6763

Neb.	α			δ		Comp. stars	Positions in 2000 α			δ	
96	14	38	34	+16	53.1	14 36 22 +17 29.6					
neb?	14	38	34	+16	53.0	14 40 37 +16 46.5					
3.8	14	38	34	+16	53.0		14	43	16	+16	27.4
97	14	39	13	+16	54.0						
neb?	14	39	13	+16	54.1						
35.2	14	39	13	+16	54.0		14	43	55	+16	28.4
98	14	39	42	+16	55.0						
	14	39	42	+16	55.1						
	14	39	42	+16	55.0		14	44	24	+16	29.4
5.6 102	14	40	37	+17	48.7	+18 2928					
	14	40	37	+17	48.7	+17 2778					
	14	40	37	+17	48.7	14 41 6 +17 55.1	14	45	17	+17	23.4
	Δα = 79″			Δδ = 44.1′		14 39 47 +17 11.0					
	= 18.8 mm			= 44.8 mm							
0.2 107	14	38	29	+19	59.2	+20 3008					
	14	38	29	+19	59.2	+19 2858					
	14	38	29	+19	59.2	14 36 45 +20 198	14	43	06	+19	33.4
	Δα = 277″			Δδ = 48.0′		14 41 22 +19 31.8					
0.5	= 65.2 mm			= 39.0 mm							
105	14	39	56	+19	56.6						
	14	39	56	+19	56.6						
4.1	14	39	56	+19	56.6		14	44	33	+19	31.0
f	14	40	51	+19	56.6						
	14	40	51	+19	56.6						
	14	40	51	+19	56.6		14	45	27	+19	31.3

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H 6763

NEB.	α			δ		COMP. STARS						
g	14	41	49	+19	41.8	14	36	45	+20	19.8		
	14	41	49	+19	41.8	14	41	22	+19	31.8		
	14	41	49	+19	41.8						14 46 25	+19 16.5

H 9387

H 9387

NEB.	α			δ		COMP. STARS						
23	12	3	40	+25	30.6	+26	2313					
	12	3	40	+25	30.6	+25	2465					
	12	3	40	+25	30.6	12	5	19	+25	54.0	12 8 46	+24 57.2
	Δα = 113″			Δδ = 32.6′		12	3	26	+25	21.4		
	= 26.2 mm			= 31.8 mm								
89	12	4	12	+28	31.3	+28	2083					
	12	4	12	+28	31.3	+28	2085					
	12	4	12	+28	31.3	12	5	24	+28	43.8	12 9 18	+27 57.9
	Δα = 151″			Δα = 15.9′		12	5	55	+28	27.9		
	= 41.0 mm			= 14.0 mm								
21	12	5	29	+25	59.3	+26	2315					
	12	5	29	+25	59.3	+26	2313					
	12	5	29	+25	59.3	12	6	34	+26	16.5	12 10 35	+25 26.9
	Δα = 75″			Δδ = 22.5′		12	5	19	+25	54.0		
	= 16.5 mm			= 24.2 mm								

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NEB	α	δ	COMP. STARS					
a	12 5 15	+26 59.2	+ 27 2100					
	12 5 15	+26 59.2	+ 26 2315					
165	12 5 15	+26 59.2	12 3 31 +27 3.2	12	10	20	+26	25.8
	Δα = 183″	Δδ = 46.7′	12 6 34 +26 165					
	= 39.5 mm	= 46.5 mm						
12	12 5 31	+26 28.5						
	12 5 31	+26 28.5						
	12 5 31	+26 28.5		12	10	36	+25	55.1
572	68 12 6 22	+28 12.3	+ 28 2085					
	12 6 22	+28 12.3	+ 28 2089					
	12 6 22	+28 12.3	12 5 55 +28 279	12	11	27	+27	38.9
	Δα = 113″	Δδ = 19.9′	12 7 48 +28 8.0					
	= 16.5	= 23.8 mm						
579	31 12 6 27	+29 39.1	+29 2264					
	12 6 26	+29 39.2	+ 29 2269					
	12 6 26	+29 39.2	12 6 9 +29 400	12	11	31	+29	5.8
	Δα = 220″	Δδ = 28.7′	12 9 49 +29 11.3					
	= 47.5 mm	= 29.5 mm						
269	34 12 7 18	+29 22.7						
	12 7 18	+29 22.7						
	12 7 18	+29 22.7		12	12	23	+28	49.3
	19 12 8 9	+29 23.7						
	12 8 9	+29 23.6						
	12 8 9	+29 23.6		12	13	14	+28	50.2

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Neb.

	α	δ	COMP. STARS		
27	12 7 58	+25 49.9	+26 2310		
	12 7 58	+25 49.9	+25 2476		
	12 7 58	+25 49.9	12 6 34 +26 16.5	12 12 03	+25 16.5
	Δα = 138″	Δδ = 44.5′	12 8 47 +25 32.0		
	= 34.0 mm	= 46.8 mm			
28	12 7 59	+27 25.2	+27 2105		
	12 7 59	+27 25.2	+26 2310		
	12 7 59	+27 25.2	12 9 15 +27 4.8	12 13 04	+26 51.4′
	Δα = 161″	Δδ = 48.0′	12 6 34 +26 16.8		
	= 37.0 mm	= 46.0 mm			
70	12 9 8	+27 32.4	+28 2089		
	12 9 8	+27 32.4	+27 2105		
	12 9 8	+27 32.4	12 7 48 +28 8.0	12 14 13	+26 59.1
	Δα = 87″	Δδ = 63.2′	12 9 15 +27 4.8		
	= 18.5 mm	= 64.2 mm			
26	12 9 32	+24 51.5	+26 2321		
	12 9 32	+24 51.5	+25 2476		
	12 9 32	+24 51.5	12 11 8 +26 18.9	12 14 36	+24 18.2
	Δα = 141″	Δδ = 46.9′	12 8 47 +25 32.0		
	= 31.5 mm	= 41.8 mm			
69	12 9 28	+27 30.4	+28 2097		
	12 9 28	+27 30.4	+27 2105		
	12 9 28	+27 30.4	12 11 55 +28 17.6	12 14 33	+26 57.1
	Δα = 160″	Δδ = 72.8	12 9 15 +27 4.8		
	= 36.0 mm	= 74.5 mm			

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Neb.	α	δ	Comp. Stars				
36	12 11 0	+28 0	12 11 55 +28 17.6				
	12 11 0	+28 0	12 9 15 +27 4.8				
16.5	12 11 0	+28 0		12	16	3	+27 26.7
31	12 10 32	+26 39.3	+27 2105				
	12 10 32	+26 39.3	+26 2321				
	12 10 32	+26 39.3	12 9 15 +27 4.8	12	15	37	+26 6.0
	Δα = 113″	Δδ = 45.9′	12 11 8 +26 18.9				
71.9	= 24.8 mm	= 45.0 mm					
66	12 11 8	+28 40.9	+29 2269				
	12 11 8	+28 41.0	+28 2097				
	12 11 8	+28 41.0	12 9 49 +29 11.3	12	16	11	+28 7.7
	Δα = 126″	Δδ = 53.7′	12 11 55 +28 17.6				
59.1	= 27.0 mm	= 54.0 mm					
33	12 12 9	+29 19.3	+29 2272				
	12 12 9	+29 19.3	+29 2269				
	12 12 9	+29 19.3	12 12 13 +29 23.8	12	17	12	+28 46.0
	Δα = 144″	Δδ = 12.5′	12 9 49 +29 11.3				
18.2	= 18.5 mm	= 12.5 mm					
59	12 14 6	+29 6.8	+29 2278				
	12 14 6	+29 6.8	+29 2281				
	12 14 6	+29 6.8	12 13 15 +29 31.5	12	19	8	+28 33.5
	Δα = 162″	Δδ = 36.8′	12 15 57 +28 54.7				
57.1	= 35.0 mm	= 36.5 mm					

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H 9387

NEB.	α			δ		Comp. Stars						
47	12	14	38	+29	22.9	+29	2278					
	12	14	38	+29	22.9	+29	2281					
	12	14	38	+29	22.9	12	13 15	+29	31.5	12	19 40	+28 49.6
						12	15 57	+28	54.7			
46	12	14	43	+29	25.4							
	12	14	43	+29	25.4							
	12	14	43	+29	25.4					12	19 45	+28 52.1
55	12	14	38	+29	2.8							
	12	14	38	+29	2.8							
	12	14	38	+29	2.8					12	19 40	+28 29.5
54	12	14	52	+28	56.2							
	12	14	52	+28	56.2							
	12	14	52	+28	56.2					12	19 54	+28 23.0
56	12	15	20	+28	56.2							
	12	15	20	+28	56.2							
	12	15	20	+28	56.2					12	20 22	+28 23.0
44	12	10	26	+29	48.3	+30	2263					
	12	10	26	+29	48.3	+29	2278					
	12	10	26	+29	48.3	12	8 5	+30	6.0	12	15 28	+29 35.0
	Δα = 310″			Δ δ = 34.5′		12	13 15	+29	31.5			
	= 61.5 mm			= 35.5 mm								
64	12	8	28	+30	0.2							
	12	8	28	+30	0.1							
	12	8	28	+30	0.2					12	13 32	+29 26.9

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H 9387

NEB.	α	δ	COMP STARS	POSITIONS IN 2000	
				α	δ
84	12 19 1	+26 57.9	+27 2120		
	12 19 1	+26 57.9	+27 2125		
19.6	12 19 1	+26 57.9	12 18 29 +27 7.0	12 24 3	+26 24.6
	Δα = 94″	Δδ = 13.3′	12 20 3 +26 53.7		
	= 20.8 mm	= 12.8 mm			
12.1					
88	12 24 1	+28 19.8	+28 2119		
	12 24 1	+28 19.8	+28 2121		
	12 24 1	+28 19.8	12 23 21 +28 3.8	12 29 00	+27 46.7
	Δα = 40″	Δδ = 22.3′	12 24 1 +28 13.5		
9.5	= 9.0 mm	= 22.3 mm			

#

H 13105

H 13105

NEB.	α	δ	COMP. STARS	POSITIONS IN 2000	
				α	δ
13.0					
59	3 16 13	-23 16.7	-24 1600		
	3 16 13	-23 16.8	-23 1536.		
	3 16 18	-23 16.8	3 17 2 -23 59.0	3 20 36	-22 56.2
13.0	Δα = 55″	Δδ = 54.7′	3 16 7 -23 4.3		
	= 28.0 mm	= 28.3 mm			
a	3 16 52	-21 13.0	-21 618		
25.0	3 16 52	-21 13.0	-21 609		
	3 16 52	-21 13.0	3 17 24 -21 30.9	3 21 14	-20 51.6
	Δα = 126″	Δδ = 26.2′	3 15 18 -21 4.7		
	= 25.8 mm	= 28.3 mm			
26.9					

Stars from B.D. are corrected to 1880 instead of 1900 (Catalogue prints interpolation for 1875 instead of 1855) This must be corrected before checking with plate

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H 13105

NEB.

	α	δ	COMP. STARS	POSITIONS IN 2000 α	POSITIONS IN 2000 δ
C	3 18 35	−24 8.9	−24 1627		
	3 18 35	−24 8.9	−24 1600		
	3 18 35	−24 8.9	3 19 55 −24 39.5	3 22 56	−23 47.3
	Δα = 173	Δδ = 40.5	3 17 2 −23 59.0		
	= 33.5 mm	= 39.0			
4	3 18 31	−22 23.5	−22 1199		
	3 18 31	−22 23.5	−21 618		
	3 18 31	−22 23.5	3 22 41 −22 41.5	3 22 56	−22 1.9
	Δα = 317″	Δδ = 70.6′	3 17 24 −21 309		
	= 61.0 mm	= 75.4 mm			
84	3 22 2	−22 46.7	−23 1391		
	3 22 3	−22 46.7	−22 1199		
	3 22 2	−22 46.7	3 21 59 −23 16.8	3 26 28	−22 25.9
	Δα = 42″	Δδ = 35.3′	3 22 41 −22 41.5		
	= 12.3 mm	= 34.0 mm			
8	3 22 15	−21 38.6	−21 630		
	3 22 15	−21 38.7	−21 625		
	3 22 15	−21 28.6	3 22 26 −21 48.9	3 26 41	−21 7.6
	Δα = 86″	Δδ = 31.4	3 21 0 −21 17.5		
	= 20.0 mm	= 31.5			
11	3 22 24	−23 19.4	−24 1686		
	3 22 24	−23 19.4	−23 1391		
	3 22 24	−23 19.4	3 25 34 −24 5.0	3 26 46	−22 58.4
	Δα = 215″	Δδ = 45.2′	3 21 59 −23 16.8		
	= 52.0 mm	= 37.0 mm			

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A

Neb	α	δ	Comp. Stars	Positions in 2000 α	δ
14	3 24 30	−23 44.8			
	3 24 30	−23 44.8			
47.3	3 24 30	−23 44.8		3 28 52	−23 23.8
15	3 24 32	−23 49.7			
	3 24 32	−23 49.7			
	3 24 32	−23 49.7		3 28 54	−23 28.1
1.9 10	3 24 36	−23 23.0			
	3 24 36	−23 23.0			
	3 24 36	−23 23.0		3 28 58	−23 2.0
89	3 23 56	−22 17.3	−23 1422		
	3 23 55	−22 17.3	−21 630		
5.9	3 23 56	−22 17.3	3 26 8 −22 57.8	3 28 20	−21 56.5
	Δα = 2.22″	Δδ = 68.9′	3 22 26 −21 48.9		
	= 41.0 mm	= 74.0			
13	3 24 1	−22 31.3			
	3 24 1	−22 31.3			
1.6	3 24 1	−22 31.3		3 28 25	−22 10.5
12	3 23 35	−20 49.8	−21 648		
	3 23 35	−20 49.8	−20 644		
	3 23 35	−20 49.8	3 27 17 −21 2.7	3 28 3	−20 28.6
	Δα = 2.81″	Δδ = 22.9′	3 22 36 −20 39.8		
58.4	= 66.0 mm	= 24.7			
29	3 25 24	−20 56.3			
	3 25 24	−20 56.3			
	3 25 24	−20 56.3		3 29 52	−20 35.5

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A 13,05

NEB.	α	δ	COMP. STARS	Positions in 2000 α	δ
86	3 24 12	-20 7.0	-21 644		
	3 24 12	-20 7.0	-20 650		
	3 24 12	-20 7.0	3 22 36 -20 39.8	3 28 40	-19 46.0
	Δα = 116″	Δδ = 37.1′	3 24 32 -20 2.7		
	= 27.8 mm	= 36.4 mm			
16	3 25 54	-24 41.6	-25 1452		
	3 25 54	-24 41.6	-24 1686		
	3 25 54	-24 41.6	3 28 7 -24 56.8	3 30 14	-24 20.4
	Δα = 153″	Δδ = 51.8′	3 25 34 -24 5.0		
	= 34.5 mm	= 72.8 mm			
17	3 25 58	-24 41.1			
	3 25 56	-24 41.2			
	3 25 56	-24 41.2		3 30 16	-24 20.0
18	3 26 5	-24 44.5			
	3 26 5	-24 44.6			
	3 26 5	-24 44.6		3 30 25	-24 23.4
22	3 25 30	-21 28.6	-21 647		
	3 25 30	-21 28.6	-21 625		
	3 25 30	-21 28.6	3 27.8 -21 42.9	3 29 56	-21 7.8
	Δα = 36.8″	Δδ = 25.4′	3 21 0 -21 17.5		
	= 85.8 mm	= 26.3 mm			

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A 13105

NEB.	α	δ	COMP. STARS	Positions in 2000 α	δ
21	3 26 35	−22 56.8	−23 1422		
	3 26 34	−22 56.8	−22 1241		
16.0	3 26 34	−22 56.8	3 26 8 −22 57.8	3 30 58	−22 36.2
	Δα = 223″	Δδ = 36.3′	3 29 51 −22 21.5		
	= 50.0 mm	= 35.0 mm			
25	3 28 4	−22 43.3			
	3 28 4	−22 43.3			
20.4	3 28 4	−22 43.3		3 32 28	−22 22.7
37	3 28 31	−22 33.4			
	3 28 31	−22 33.4			
	3 28 31	−22 33.4		3 32 55	−22 12.8
30.0	3 27 0	−23 48.8	−24 1686		
	3 27 0	−23 48.7	−23 1442		
	3 27 0	−23 48.8	3 25 34 −24 5.0	3 31 22	−23 28.1
	Δα = 222″	Δδ = 47.9′	3 29 16 −23 17.1		
33.4	= 51.5 mm	= 48.1 mm			
92	3 27 29	−21 20.1	−21 647		
	3 27 31	−21 20.1	−20 680		
7.8	3 27 31	−21 20.1	3 27 8 −21 42.9	3 31 56	−20 59.9
	Δα = 315″	Δδ = 50.7′	3 32 25 −20 52.2		
	= 75.0 mm	= 50.0 mm			
30	3 27 37	−21 29.7			
	3 27 39	−21 29.8			
	3 27 38	−21 29.8		3 32 3	−21 9.6

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#13105

NEB.

	α			δ		COMP. STARS				Positions in 2000			
										α		δ	
34	3	28	32	−21	29.2	3	27	8	−21 42.9				
	3	28	34	−21	27.2	3	32	25	−20 52.2				
	3	28	33	−21	27.2					3	32 58	−21	7.0
79	3	29	5	−21	19.4								
	3	29	3	−21	19.4								
	3	29	4	−21	19.4					3	33 29	−20	59.2
54	3	29	22	−21	15.0								
	3	29	23	−21	15.0								
	3	29	22	−21	15.0					3	33 47	−20	54.8
39	3	30	6	−21	37.8								
	3	30	8	−21	37.8								
	3	30	7	−21	37.8					3	34 32	−21	17.6
26	3	28	40	−21	56.6	−22	1241						
	3	28	39	−21	56.6	−21	647						
	3	28	40	−21	56.6	3	29	51	−22 21.5	3	33 5	−21	36.4
	Δα = 163"			Δδ = 38.6'		3	27	8	−21 42.9				
	= 25.3 mm			= 44.2 mm									
~~19~~ 91	3	28	28	−20	31.3	−21	648						
	3	28	28	−20	31.3	−20	690						
	3	28	28	−20	31.3	3	27	17	−21 2.7	3	32 55	−20	10.9
	Δα = 117"			Δδ = 42.0		3	29	14	−20 20.7				
	= 28.0 mm			= 41.7 mm									
91	3	28	34	−20	24.3								
	3	28	34	−20	24.2								
	3	28	34	−20	24.2					3	33 1	−20	3.8

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A 13105

Nebula	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
76	3 28 57	-19 49.1	-20 665		
	3 28 57	-19 49.1	-19 708		
	3 28 57	-19 49.1	3 28 42 -20 0.7	3 33 27	-19 27.1
	Δα = 140"	Δ δ = 14.7'	3 31 2 -19 46.0		
	= 33.2 mm	= 14.4 mm			
43	3 29 53	-23 35.7	-23 1463		
	3 29 53	-23 35.6	-23 1442		
	3 29 53	-23 35.6	3 32 12 -23 41.9	3 34 14	-23 15.2
	Δα = 176"	Δ δ = 24.8'	3 29 16 -23 17.1		
	= 40.0 mm	= 25.8 mm			
42	3 30 4	-23 28.0			
	3 30 4	-23 28.0			
	3 30 4	-23 28.0		3 34 25	-23 7.6
52	3 30 53	-23 38.5			
	3 30 53	-23 38.5			
	3 30 53	-23 38.5		3 35 14	-23 18.1
51	3 31 24	-23 37.1			
neb?	3 31 24	-23 37.1			
	3 31 24	-23 37.1		3 35 45	-23 16.7
47	3 30 50	-24 49.3	-25 1585		
	3 30 50	-24 49.2	-24 1738		
	3 30 50	-24 49.2	3 33 30 -25 5.1	3 35 15	-24 28.8
	Δα = 195"	Δ δ = 24.7'	3 30 15 -24 40.4		
	= 44.0 mm	= 26.0 mm			

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A 13105

NEB.

	α			δ		COMP. STARS				Positions 1900			
										α		δ	
49	3	31	6	−24	51.6	3	33	30	−25 51				
	3	31	6	−24	51.6	3	30	15	−24 46.4				
	3	31	6	−24	51.6					3	35	31	−24 31.2
48	3	31	8	−24	48.3								
	3	31	8	−24	48.3								
	3	31	8	−24	48.3					3	35	33	−24 27.9
35	3	31	25	−22	31.8	−22 12.5							
	3	31	24	−22	31.8	−22 12.4							
	3	31	24	−22	31.8	3	31	51	−22 38.5	3	35	47	−22 11.8
	Δx = 120			Δδ = 17.0′		3	29	07	−22 21.5				
	= 27.2 mm			= 16.5 mm									
36	3	31	32	−22	28.2								
	3	31	31	−22	28.2								
	3	31	32	−22	28.2					3	35	55	−22 8.2
41	3	32	8	−22	16.3	−22 12.5							
	3	32	8	−22	16.2	−21 67.2							
	3	32	8	−22	16.2	3	31	51	−22 38.5	3	34	31	−21 56.2
	Δx = 200″			Δδ = 32.3′		3	35	11	−21 46.2				
	= 60.0 mm			55.3 mm									
69	3	33	14	−22	2.1								
	3	33	14	−22	2.1								
	3	33	14	−22	2.1					3	37	37	−21 42.2
68	3	34	18	−21	48.0								
	3	34	17	−21	47.9								
	3	34	18	−21	48.0					3	38	43	−21 28.0

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A 13105

NEB.	α	δ	COMP. STARS	POSITIONS in 2000 α	POSITIONS in 2000 δ
50	3 32 42	-24 19.2	-24 1738		
	3 32 42	-24 19.2	-24 1769		
	3 32 42	-24 19.2	3 30 15 -24 44.4	3 37 00	-23 59.2
	Δα = 148"	Δδ = 30.1'	3 32 43 -24 10.3		
	= 34.2 mm	= 29.8 mm			
39a	3 31 7	-20 51.2	-20 680		
	3 31 7	-20 51.2	-20 670		
	3 31 7	-20 51.2	3 32 25 -20 52.2	3 35 34	-20 31.2
	Δα = 191"	Δδ = 31.5'	3 29 14 -20 20.7		
	= 44.2 mm	= 32.0 mm			
45	3 32 37	-25 13.7	-25 1585		
	3 32 37	-25 13.7	-24 1738		
	3 32 37	-25 13.7	3 33 30 -25 5.1	3 36 53	-24 53.7
	Δα = 195"	Δδ = 24.7'	3 30 15 -24 40.4		
	= 44.0 mm	= 26.2 mm			
58	3 33 14	-25 9.9			
	3 33 15	-25 10.0			
	3 33 14	-25 10.0		3 37 30	-25 30.0
53	3 33 22	-23 14.0	-23 1492		
	3 33 23	-23 14.0	-22 1251		
	3 33 23	-23 14.0	3 35 13 -23 30.0	3 37 53	-23 54.0
	Δα = 202"	Δδ = 71.5'	3 31 51 -22 38.5		
	= 44.8 mm	= 73.5			
55	3 33 59	-23 44.6			
	3 33 58	-23 44.5			

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NEB.	α	δ	COMP. STARS	POSITIONS in 2000 α	POSITIONS in 2000 δ
78	3 32 51	-20 6.7	-20 680		
	3 32 51	-20 6.7	-19 721		
	3 32 51	-20 6.7	3 32 25 -20 52.2	3 37 18	-19 46.9
	Δα = 164″	Δδ = 63.7′	3 35 9 -19 48.5		
	= 40.5 mm	= 630 mm			
70	3 34 10	-20 24.8			
	3 34 10	-20 24.9			
	3 34 10	-20 24.8		3 38 37	-20 5.0
85	3 34 39	-19 48.5			
	3 34 39	-19 48.5			
	3 34 39	-19 48.5		3 39 8	-19 28.6
57	3 34 26	-22 42.6	-22 1288		
	3 34 25	-22 42.6	-22 1261		
	3 34 26	-22 42.6	3 37 48 -22 46.5	3 38 49	-22 22.6
	Δα = 23.5″	Δδ = 10.3′	3 33 53 -22 36.2		
	= 34.5 mm	= 11.8 mm			
82	3 35 54	-22 41.7			
neb?	3 35 54	-22 41.7			
	3 35 54	-22 41.7		3 40 16	-22 21.9
81	3 36 20	-22 37.8			
	3 36 19	-22 37.8			
	3 36 20	-22 37.8		3 40.42	-22 18.0
83	3 37 5	-22 47.8			
	3 37 5	-22 47.8			
	3 37 5	-22 47.8		3 41 27	-22 28.0

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H 13105

NEB.	α	δ	COMP. STARS	Positions in 2000 α	δ
60	3 36 58	-24 9.8	-24 1823		
	3 36 58	-24 9.7	-23 1492		
46.9	3 36 58	-24 9.8	3 38 5 -24 44.3	3 41 16	-23 50.0
	Δα = 172"	Δδ = 54.3'	3 35 13 -23 50.0		
	= 38.5 mm	= 55.0 mm			
77	3 36 9	-20 17.2	-21 680		
	3 36 9	-20 17.3	-19 721		
5.0	3 36 9	-20 17.3	3 38 18 -21 1.2	3 40 36	-19 57.7
	Δα = 189"	Δδ = 72.7'	3 35 9 -19 48.5		
	= 42.5	= 74.5 mm			
286	61 3 36 44	-21 38.5	-21 672		
	3 36 44	-21 38.5	-21 680		
	3 36 44	-21 38.5	3 35 11 -21 46.2	3 41 9	-21 18.5
	Δα = 187"	Δδ = 45.0'	3 38 18 -21 1.2		
22.6	= 45.2 mm	= 44.0			
	90 3 37 11	-21 17.6			
	neb? 3 37 11	-21 17.6			
	3 37 11	-21 17.6		3 41 36	-20 57.6
21.9	87 3 38 17	-21 38.0			
	neb? 3 38 17	-21 38.0			
	3 38 17	-21 38.0		3 42 41	-21 18.4
18.0					
28.0					

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A 13105

NEB.	α			δ		COMP. STARS			Positions in 2000 α		δ
80	3	38	57	−23	16.0	−23 1547					
neb?	3	38	57	−23	16.1	−22 1088					
	3	38	57	−23	16.0	3 40 33	−23	41.6	3	43 17	−22 56.6
	Δα = 165″			Δδ = 55.1′		3 37 48	−22	46.5			
	= 36.0 mm			= 57.8 mm							
73	3	39	33	−23	49.4						
	3	39	39	−23	49.5						
	3	39	33	−23	49.4				3	43 53	−23 30.0

A 14103

A 14103

NEB.	α			δ		COMP. STARS					
3	21	41	28	−46	27.3	−46 1406.5					
	21	41	28	−46	27.3	−45 14486					
✓	21	41	28	−46	27.3	21 40 25	−46	57.1	21	47 55	−45 59.9
	Δα = 363″			Δδ = 63.4′		21 46 28	−45	47.7			
	= 60.2 mm			= 67.0 mm							
5	21	43	15	−45	39.9	−45 14486					
	21	43	14	−45	39.9	−45 14457					
✓	21	43	14	−45	39.9	21 46 28	−45	47.7	21	49 42	−45 12.0
	Δα = 295″			Δδ = 20.1′		21 41 33	−45	27.6			
	= 53.0 mm			= 18.0 mm							
14	21	45	55	−45	39.3						
✓	21	45	55	−45	39.4						
	21	45	55	−45	39.4				21	52 17	−45 11.4

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A 13105

	NEB.	α			δ		COMP. STARS	Positions in 2000 α			δ	
2000	40	21	44	1	-47	3.6	-47 13941					
		21	44	0	-47	3.6	-46 14135					
56.6	✓	21	44	0	-47	3.6	21 43 20 -47 4.6	21	50	29	-46	35.9
		Δα = 470″ = 80.0 mm			Δδ = 43.2′ = 46.2 mm		21 51 10 -46 21.4					
	4	21	44	4	-46	47.8						
		21	44	5	-46	47.8						
30.0	✓	21	44	4	-46	47.8		21	50	30	-46	20.2
	41	21	44	40	-46	45.0						
	H.N. 2829	21	44	40	-46	45.0						
	✓	21	44	40	-46	45.0		21	51	6	-46	17.4
59.9	16	21	46	6	-46	23.6						
		21	46	6	-46	23.5						
		21	46	6	-46	23.6		21	52	31	-45	55.8
	39	21	47	18	-46	57.6						
		21	47	18	-46	57.6						
12.0		21	47	18	-46	57.6		21	53	43	-46	29.8
	20	21	48	11	-46	22.1						
		21	48	11	-46	22.0						
	✓	21	48	11	-46	22.0		21	54	35	-45	54.0
11.4	41	21	50	38	-46	57.6						
		21	50	38	-46	57.6						
		21	50	38	-46	57.6		21	57	1	-46	92.4

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H 14103
NEB.

	α	δ	Comp. Stars	Positions in 2000 α	δ
42	21 50 40	-46 36.6	21 43 20 -47 46		
	21 50 41	-46 36.5	21 51 10 -46 21.4		
✓	21 50 40	-46 36.6		21 57 3	-46 8.4
15	21 47 35	-45 52.0	-46 14144		
	21 47 36	-45 52.0	-45 14486		
✓	21 47 36	-45 52.0	21 52 19 -46 13.4	21 53 57	-45 29.8
	Δα = 351"	Δ δ = 25.7"	21 46 28 -45 47.7		
	= 62.0 mm	= 24.0 mm			
18	21 48 44	-45 52.0			
	21 48 44	-45 52.0			
H.N. 2839 ✓	21 48 44	-45 52.0		21 55 5	-45 23.6
21	21 50 27	-46 0.6			
	21 50 27	-46 0.5			
✓	21 50 27	-46 0.6		21 56 50	-45 32.4
147	21 51 3	-46 2.7			
	21 51 3	-46 2.7			
✓	21 51 3	-46 2.7		21 57 26	-45 34.5
151	21 51 20	-45 52.0			
	21 51 20	-45 52.0			
✓	21 51 20	-45 52.0		21 57 38	-45 23.5

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A 14103

	Neb.	α	δ	Comp. stars	Positions in 2000 α	δ
000	7	21 45 39	-43 36.1	-44 14727		
		21 45 39	-43 36.0	-42 15664		
8.4		21 45 39	-43 36.0	21 53 38 -43 36.4	21 51 56	-43 8.1
		Δα = 479"	Δ δ = 66.0'	21 45 39 -42 30.4		
		= 89.0 mm	= 65.0 mm			
23.8	8	21 48 4	-43 7.6			
		21 48 4	-43 7.6			
	✓	21 48 4	-43 7.6		21 54 20	-42 39.6
	27	21 49 20	-43 43.2			
		21 49 19	-43 43.2			
23.6	H.N.2840 ✓	21 49 20	-43 43.2		21 55 36	-42 15.2
	26	21 49 38	-43 41.2			
		21 49 39	-43 41.2			
32.4	H.N.2842 ✓	21 49 38	-43 41.2		21 55 54	-43 13.2
	28	21 49 48	-43 2.6			
		21 49 47	-43 2.6			
34.5	✓	21 49 48	-43 2.6		21 56 3	-42 34.6
	29	21 49 58	-43 46.2			
		21 49 57	-43 46.2			
23.5	H.N.2843 ✓	21 49 58	-43 46.2		21 56 13	-43 18.2
	36	21 50 14	-43 52.4			
		21 50 13	-43 52.4			
	✓	21 50 14	-43 52.4		21 56 29	-43 24.4

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A 14103

NEB	α			δ			Comp. Stars				Positions 1950 α		δ
9	21	47	25	-43	58.3		-44	14717					
	21	47	25	-43	58.3		-44	14657					
✓	21	47	25	-43	58.3		21	52 10	-44	31.1	21	53 41	-43 30.3
	Δα = 500″			Δδ = 37.2′			21	43 30	-43	33.9			
	= 93.0 mm			= 36.3 mm									
24	21	49	21	-44	19.3								
	21	49	21	-44	19.3								
H.N. 2841 ✓	21	49	21	-44	19.3						21	55 38	-43 51.1
155	21	51	22	-43	55.7								
	21	51	22	-43	55.7								
	21	51	22	-43	55.7						21	57 36	-43 27.5
22	21	47	30	-44	33.9		-45	14486					
	21	47	30	-44	33.9		-44	14717					
	21	47	30	-44	33.9		21	46 28	-45	47.7	21	53 51	-45 5.7
	Δα = 342″			Δδ = 70.5′			21	52 10	-44	37.2			
	= 60.8 mm			= 77.7 mm									
58	21	50	2	-45	12.9								
	21	50	2	-45	12.8								
H.N. 2847 ?	21	50	2	-45	12.8						21	56 21	-44 44.4
23	21	50	13	-45	28.5								
	21	50	13	-45	28.4								
H.N. 2846 ✓	21	50	13	-45	28.4						21	56 32	-45 00.0
57	21	50	24	-45	19.9								
	21	50	24	-45	19.9								
	21	50	24	-45	19.9						21	56 43	-44 51.5

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H 14103

NEB.	α	δ	COMP. STARS	Positions in 2000 α	δ
145	21 48 40	-47 37.5	-47 13928		
	21 48 45	-47 37.5	-47 13982		
30.3	21 48 45	-47 37.5	21 41 45 -47 45.4	21 55 12	-47 9.5
	Δα = 311"	Δδ = 48.2	21 50 16 -46 57.2		
	= 87.0 mm	= 51.6 mm			
17	21 49 33	-47 28.1			
	21 49 32	-47 28.1			
51.1 ✓	21 49 32	-47 28.1		21 55 57	-46 59.9
153	21 51 43	-45 32.0	-46 14506		
	21 51 43	-45 32.0	-45 14521		
27.5	21 51 43	-45 32.0	21 49 30 -45 43.2	21 58 1	-45 3.4
✓	Δα = 162"	Δδ = 29.3'	21 52 12 -45 13.9		
	= 28.0 mm	= 30.2 mm			
5.7 55	21 52 9	-45 39.3			
	21 52 9	-45 39.3			
✓	21 52 9	-45 39.3		21 58 27	-45 10.7
56	21 52 19	-45 46.3	-46 14189		
	21 52 20	-45 46.3	-45 14521		
44.4 ✓	21 52 20	-45 46.3	21 59 33 -46 14.5	21 58 36	-45 17.5
	Δα = 441"	Δδ = 60.6'	21 52 12 -45 13.9		
	= 67.2 mm	= 60.6 mm			
00.0 166	21 53 13	-45 39.8			
	21 53 13	-45 39.8			
	21 53 19	-45 39.8		21 59 29	-45 11.0
51.5					

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H14103

NEB.	α			δ		COMP. STARS	Positions in 2000 α		δ
148	21	54	11	-46	12.3	-46 14189			
	21	54	11	-46	12.3	-45 14521			
	21	54	11	-46	12.3	21 59 33 -46 14.5	22	0 28	-45 43.8
						21 52 12 -45 13.9			
150	21	56	15	-45	51.3				
	21	56	16	-45	51.3				
	21	56	16	-45	51.3		22	2 38	-45 23.3
167	21	56	15	-45	19.3				
	21	56	16	-45	19.3				
	21	56	16	-45	19.3		22	2 38	-44 51.3
149	21	56	49	-46	14.5				
	21	56	49	-46	14.5				
	21	56	49	-46	14.5		22	3 9	-45 45.7
163	21	57	41	-46	13.5				
	21	57	42	-46	13.5				
	21	57	42	-46	13.5		22	4 0	-45 44.5
176	21	58	8	-45	22.0				
neb?	21	58	8	-45	22.0				
	21	58	8	-45	22.0		22	4 22	-44 53.0
59	21	51	48	-47	6.2	-47 13978			
	21	51	47	-47	6.2	-46 14179			
✓	21	51	48	-47	6.2	21 49 24 -47 23.9	21	58 10	-46 37.6
	Δα = 4'3.11			Δδ = 47.4'		21 57 17 -46 36.5			
	= 79.0 mm			= 49.0 mm					

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1930phae.proj.2920M

A 14103

	Neb.	α			δ		Comp. Stars				Positions in 2000 α		δ	
000	156	21	54	0	-47	41	21	49	24	-47 23 9				
		21	54	1	-47	41	21	57	17	-46 36.5				
43.8	-√	21	54	0	-47	41					22	00	21	-46 35.3
	144	21	54	12	-47	26.5								
		21	54	13	-47	26.5								
33.3	√	21	54	12	-47	26.5					22	00	33	-46 58.3
	157	21	55	8	-46	52.3								
		21	55	8	-46	52.2								
51.3	√	21	55	8	-46	52.2					22	1	28	-46 23.6
	142	21	56	26	-47	41.8								
		21	56	26	-47	41.7								
45.7	√	21	56	26	-47	41.8					22	2	45	-47 12.8
	143	21	56	32	-47	39.4								
		21	56	32	-47	39.5								
44.5		21	56	32	-47	39.4					22	2	51	-47 10.4
	175	21	54	7	-44	36.9	-45	14521						
		21	54	7	-44	36.9	-44	14763						
53.0	√	21	54	7	-44	36.9	21	52	12	-45 13.9	22	00	23	-44 8.5
		Δα = 461"			Δδ = 46.9'		21	59	53	-44 27.0				
		= 82.0 mm			= 47.5 mm									
37.6	197	21	54	24	-44	57.7								
		21	54	25	-44	57.6								
	H.N. 28534	21	54	24	-44	57.6					21	00	38	-44 29.2

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1930phae.proj.2322M

A14103
NEB.

		α			δ		COMP. STARS				Positions in 2000				
											α			δ	
172		21	55	37	-44	51.7	21	52	12	-45 13.9					
		21	55	37	-44	51.6	21	59	53	-44 27.0					
	✓	21	55	37	-44	51.6					22	1	52	-44	23.0
177		21	55	48	-45	10.9									
		21	55	48	-45	10.9									
	✓	21	55	48	-45	10.9					22	2	2	-44	48.9
171		21	56	8	-44	53.7									
		21	56	8	-44	53.8									
	✓	21	56	8	-44	53.8					22	2	23	-44	25.2
195		21	56	17	-44	35.0									
		21	56	15	-44	34.9									
	✓	21	56	16	-44	35.0					22	2	31	-44	6.4
193		21	56	42	-44	35.0									
		21	56	42	-44	34.9									
	✓	21	56	42	-44	35.0					22	2	51	-41	6.4
194		21	56	48	-44	38.4									
		21	56	47	-44	38.3									
H.N. 2856	✓	21	56	48	-44	38.4					22	3	3	-44	9.8
178		21	57	50	-45	5.0									
		21	57	49	-45	5.0									
	✓	21	57	50	-45	5.0					22	4	4	-44	36.0
62		21	58	54	-44	42.9									
		21	58	54	-44	42.8									
	✓	21	58	54	-44	42.8					22	5	7	-44	14.0

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A 14103

	NEB.	α			δ		COMP. STARS	POSITIONS IN 2000 α			δ	
00	192	21	59	8	-44	59.1						
	neb?	21	59	8	-44	59.0						
23.0		21	59	8	-44	59.0		22	5	21	-44	30.2
	38	21	52	55	-44	24.5	-44 14717					
		21	52	55	-44	24.5	-43 14884					
48.9	H.N. 2851	21	52	55	-44	24.5	21 52 10 -44 31.2	22	9	10	-43	56.0
		Δα = 486"			Δδ = 69.5"		22 0 16 -43 27.1					
		= 86.0 mm			= 65.5 mm							
25.2	19	21	54	14	-44	20.7						
		21	54	14	-44	20.7						
		21	54	14	-44	20.7		22	00	29	-43	52.1
6.4	30	21	54	14	-43	37.7						
	H.N. 2852	21	54	14	-43	37.7						
		21	54	14	-43	37.7		22	00	29	-43	9.3
6.4	94	21	57	4	-44	28.2						
		21	57	4	-44	28.2						
		21	57	4	-44	28.2		22	3	28	-43	59.5
7.8	203	21	57	22	-43	52.2						
	neb?	21	57	21	-43	52.1						
		21	57	21	-43	52.2		22	3	32	-43	23.4
36.0	71	21	59	30	-44	10.7						
		21	59	31	-44	10.7						
		21	59	30	-44	10.7		22	5	43	-43	41.9
14.0												

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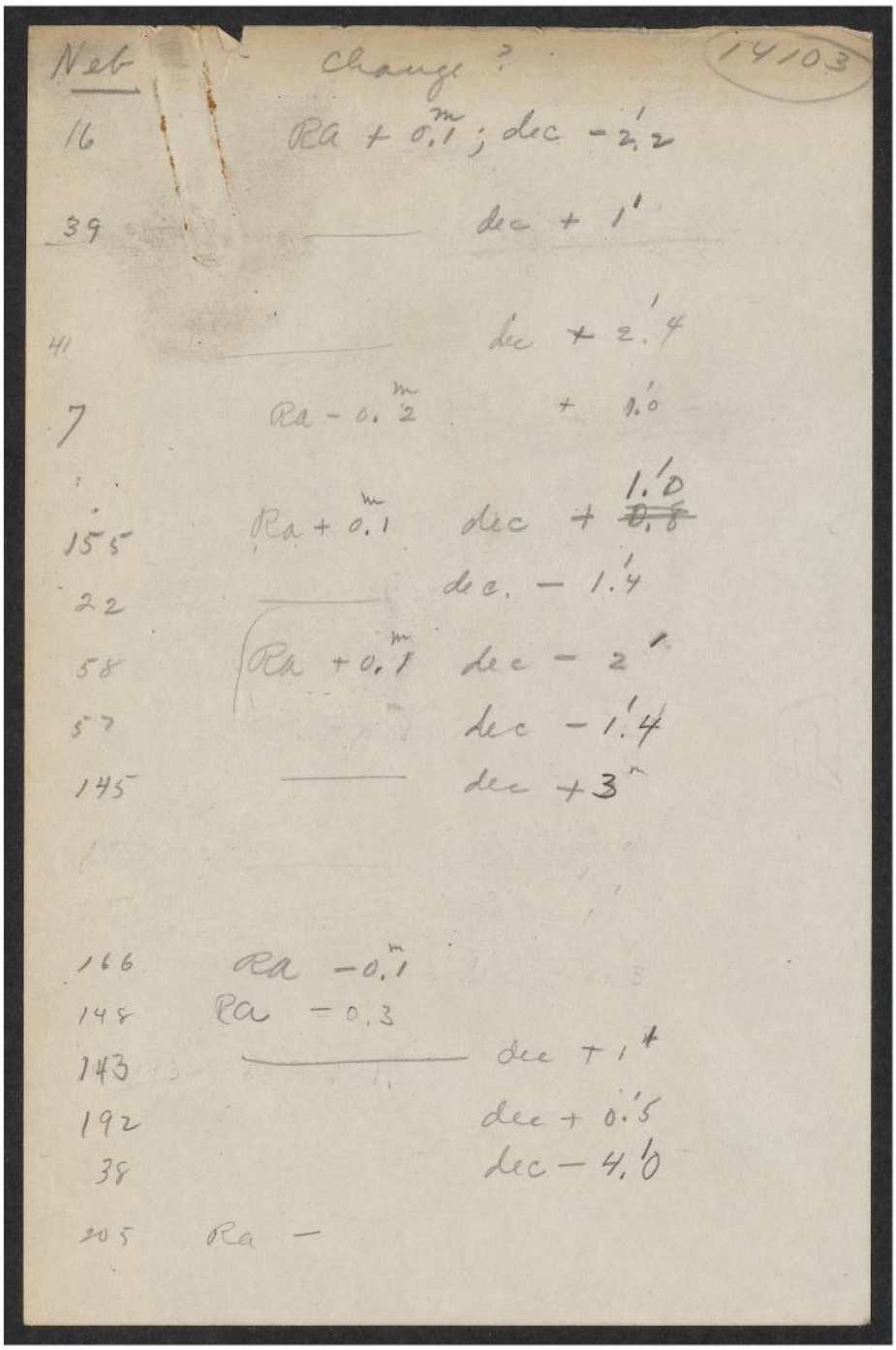
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A14103

NEB.		α		δ		COMP. STARS	Positions in 2000 α	δ
35		21 53 0		−42 54.1		−43 14884		
		21 52 59		−42 54.1		−42 15720		
	✓	21 53 0		−42 54.1		22 0 16 −43 27.7	21 59 15	−42 25.5
		Δα = 476″		Δδ = 63.1′		21 52 20 −42 24.6		
		= 86.0 mm		= 61.0 mm				
34		21 53 38		−43 19.4				
		21 53 38		−43 19.4				
	✓	21 53 38		−43 19.4			21 59 52	−42 51.0
31		21 54 26		−43 4.9				
		21 54 27		−43 5.0				
	✓	21 54 26		−43 5.0			22 00 40	−42 36.6
205		21 55 0		−43 20.5				
neb?		21 55 1		−43 20.6				
	✓	21 55 0		−43 20.6			22 1 14	−42 52.2
32		21 55 20		−42 54.5				
		21 55 20		−42 54.6				
H.N. 2854	✓	21 55 20		−42 54.6			22 1 30	−42 25.9
33		21 55 26		−42 53.5				
		21 55 26		−42 53.6				
H.N. 2855	✓	21 55 26		−42 53.6			22 1 36	−42 24.9
43		21 56 32		−43 7.0				
		21 56 32		−43 7.1				
	✓	21 56 32		−43 7.0			22 2 44	−42 38.4

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Neb Changes ? 14103

16 Ra + 0.1m ; dec − 2.'2

39 ——— dec + 1'

41 ——— dec + 2.'4

7 Ra − 0.2m + 1.'0

155 Ra + 0.1m dec + ~~0.'8~~ 1.'0

22 ——— dec. − 1.'4

58 Ra + 0.1m dec − 2'

57 dec − 1.'4

145 ——— dec + 3'

166 Ra − 0.1m

148 Ra = 0.3

143 ——— dec + 1.'4

192 dec + 0.'5

38 dec − 4.'0

205 Ra −

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1930phae.proj.232CM

Book 9

Plate No.	Page	Errors
13362	90	7 } slightly off in dec.
		27 } Fault of S.D. 21 3578
		106-111 as above
		m - Error in dec.
		122 - " " "
		140 - 2m off in dec.
		138 - year omitted
14103	206	Comp. star -46 14189 Off; stars not checked.
	209	" " -44 14717 should be -44 " 31.2; used as -44 37.2?
	~~210~~	" " ~~-42 15920 Off in dec? stars not checked~~
	211-214	" " -46 14189 Off 1m in Ra. stars not checked.
	214-215	" " " " " " " " " " " "
	216	neb. 179 off in dec. by 0'.5
	216-217	com. stars off in Ra? The neb. checks fairly well, but need a systematic correction.
4923	159	Comp. star 76 347 wrongly identified. Affects neb. 14, 10 +8
4615	137	No position for 14 b
5188	166	31 - Error in R.A.
	167	15 - 14, off in dec. Probably comp. star
	"	59 Error in R.A.
	"	58 " " "
	169	69 " " dec.

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Book 2

Plate	Page	Errors
13719	66	40 pos. for a & b
13037	79	90 about 3' off in dec.
	"	58 " 8" " " R.A.
	81	50 off in R.A. + dec.
	82	60 about 3' off in dec.
	83	44 about 2' " " "
		Probably comp. star 27 9905
	84	62 about 8' off in dec.
	85	39 as for 83
	85486	36, 27, 26, a, 25 all off in R.A.
		Error in comp. star 29 11221

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1930phae.proj.23200

A 14103

NEB.	α			δ		Comp. Stars	Positions in 2000 α			δ	
208	21	58	9	-43	14.2						
	21	58	9	-43	14.2						
5	21	58	9	-43	14.2		22	4	19	-42	45.3
161	22	0	38	-46	41.8	-47 14097					
	22	0	37	-46	41.9	-46 14189					
H.N. 2859	22	0	38	-46	41.8	22 6 32 -47 0.6	22	6	55	-46	12.6
	Δα = 419"			Δδ = 46.1'		21 59 33 -46 14.5					
0	= 82.0 mm			= 48.0 mm							
162	22	0	58	-46	40.4						
	22	0	57	-46	40.5						
6	22	0	58	-46	42.4		22	7	15	-46	11.2
48	22	1	20	-46	39.4						
	22	1	20	-46	39.5						
2	22	1	20	-46	39.4		22	7	37	-46	10.2
50	22	1	46	-46	31.2						
	22	1	46	-46	31.3						
9	22	1	46	-46	31.2		22	8	3	-46	2.0
168	22	2	24	-46	52.4						
not?	22	2	24	-46	52.5						
9	22	2	24	-46	52.4		22	8	41	-46	23.2
88	22	3	51	-46	46.2						
not?	22	3	49	-46	46.3						
4	22	3	50	-46	46.3		22	10	6	-46	17.1

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H14103

NEB.	α			δ		COMP. STARS	Positions in 2000 α	δ
165	22	4	22	-46	22.1	22 6 32 -47 0.6		
	22	4	21	-46	22.2	21 59 33 -46 14.5		
	22	4	22	-46	22.2		22 10 39	-45 53.0
137	22	4	50	-46	41.8			
	22	4	49	-46	41.9			
H.N. 2863	22	4	50	-46	41.8		22 11 6	-46 12.6
140	22	6	4	-46	38.4			
	22	6	3	-46	38.5			
	22	6	4	-46	38.4		22 12 19	-46 9.0
141	22	6	7	-46	38.4			
	22	6	6	-46	38.5			
	22	6	6	-46	38.4		22 12 21	-46 9,0
97	22	6	24	-46	18.2			
	22	6	23	-46	18.3			
	22	6	24	-46	18.2		22 12 39	-45 48.8
54	21	59	51	-45	53.5	-46 14189		
	21	59	50	-45	53.5	-45 14610		
	21	59	00	-45	59.5	21 59 33 -46 14.5	22 6 4	-45 24.5
	Δα = 347"			Δδ = 60.2		22 5 50 -45 14.3		
	= 74.0 mm			= 59.6 mm				
197	22	0	11	-45	30.3			
	22	0	11	-45	30.3			
	22	0	11	-45	30.3		22 6 25	-45 1,3

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1936phae.proj.232M

A14103

NEB.	α			δ			COMP. STARS					Positions in 2000 α			δ	
199	22	0	21	-45	35.5		21	59	33	-46	14.3					
	22	0	22	-45	35.5		22	5	50	-45	14.3					
	22	0	22	-45	35.5							22	6	36	-45	6.5
36	22	1	15	-45	41.9											
	22	1	15	-45	41.9											
	22	1	15	-45	41.9							22	7	28	-45	12.7
52	22	1	40	-46	4.1											
	22	1	40	-46	3.9											
	22	1	40	-46	4.0							22	7	57	-45	34.8
178	22	1	38	-45	20.2											
	22	1	38	-45	20.3											
	22	1	38	-45	20.2							22	7	51	-44	51.0
53	22	2	57	-46	1.1											
	22	2	57	-46	1.0											
	22	2	57	-46	1.0							22	9	13	-45	31.8
198	22	3	12	-45	41.3											
nb?	22	3	12	-45	41.3											
	22	3	12	-45	41.3							22	9	25	-45	12.1
168	22	3	47	-45	49.9											
nb?	22	3	46	-45	49.9											
	22	3	46	-45	49.9							22	9	59	-45	20.7

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H 14103

NEB.	α	δ	COMP. STARS	Positions in 2000 α	δ
164	22 4 8	-46 8.6	21 59 33 -46 14.5		
not?	22 4 8	-46 8.6	22 5 50 -45 14.3		
	22 4 8	-46 8.6		22 10 24	-45 39.4
191	22 4 21	-45 28.7			
	22 4 21	-45 28.7			
	22 4 21	-45 28.7		22 10 33	-44 59.4
169	22 3 23	-45 55.5			
not?	22 3 23	-45 55.5			
	22 3 23	-45 55.5		22 9 36	-45 26.3
77	22 4 49	-45 54.0			
	22 4 49	-45 54.0			
	22 4 49	-45 54.0		22 11 1	-45 24.7
188	22 3 23	-45 22.4			
	22 3 23	-45 22.4			
	22 3 23	-45 22.4		22 9 36	-44 53.2
79a	22 0 12	-44 19.5	-44 14763		
	22 0 12	-44 19.8	-43 14939		
H.N. 2858	22 0 12	-44 19.6	21 59 53 -44 27.0	22 6 24	-43 50.6
	Δα = 379"	Δδ = 62.2'	22 6 12 -43 24.8		
	= 80.5 mm	= 62.2 mm			
75	22 0 54	-44 14.0			
	22 0 54	-44 14.3			
	22 0 54	-44 14.2		22 7 6	-43 45.2

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H14103

NEB.	α			δ		COMP. STARS	POSITIONS IN 2000 α			δ	
60	22	1	4	-44	19.0	21 59 53 -44 27.0					
	22	1	4	-44	19.3	22 6 12 -43 24.8					
39.4	22	1	4	-44	19.2		22	7	16	-43	50.2
69	22	1	8	-44	5.0						
neb?	22	1	8	-44	5.3						
59.4	22	1	8	-44	5.2		22	7	20	-43	36.2
72	22	1	27	-43	46.0						
H.N. 2860	22	1	27	-43	46.3						
46.3	22	1	27	-43	46.2		22	7	37	-43	17.2
71	22	1	45	-44	21.5						
	22	1	44	-44	21.8						
24.7	22	1	44	-44	21.6		22	7	56	-43	32.6
70	22	2	5	-44	5.0						
	22	2	4	-44	5.3						
53.2	22	2	4	-44	5.2		22	8	16	-43	36.2
134	22	2	40	-44	18.0						
	22	2	44	-44	18.3						
50.6	22	2	42	-44	18.2		22	8	53	-43	49.1
68	22	3	51	-43	45.0						
	22	3	51	-43	45.3						
	22	3	51	-43	45.2		22	10	1	-43	16.2
45.2	122	22	4	12	-44	14.0					
	22	4	12	-44	14.3						
	22	4	12	-44	14.2		22	10	22	-43	45.0

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H14103
NEB.

	α			δ		Comp Stars				Positions in 2000 α			δ	
133	22	5	4	-44	9.0	21	59	53	-44 27.0					
	22	5	4	-44	9.3	22	6	12	-43 24.8					
	22	5	4	-44	9.2					22	11	14	-43	40.0
208	22	2	8	-43	23.7	-43	14884							
	22	2	8	-43	23.6	-42	15804							
✓	22	2	8	-43	23.6	22	0	16	-43 27.7	22	8	18	-42	54.6
	Δα=291"			Δ δ=65.8'		22	5	7	-42 21.9					
	=54.5mm			=65.2mm										
73	22	3	1	-42	42.7									
	22	3	1	-42	42.8									
✓	22	3	1	-42	42.8					22	9	9	-42	13.6
127	22	5	7	-42	45.3									
	22	5	7	-42	45.3									
✓	22	5	7	-42	45.3					22	11	13	-42	16.0
202	22	0	0	-44	44.5	-45	14610							
	22	0	0	-44	44.5	-44	14763							
	22	0	0	-44	44.5	22	5	20	-45 14.3	22	6	12	-44	15.5
	Δα=327"			Δ δ=47.3'		21	59	53	-44 27.0					
	=59.3mm			=48.5mm										
179	22	1	18	-45	10.4									
	22	1	17	-45	10.5									
	22	1	18	-45	10.4					22	7	31	-44	41.2

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A 14103

NEB.	α			δ		COMP. STARS				Positions in 2000 α			δ	
63	22	1	34	-44	41.5	22	5	20	-45	14.3				
	22	1	34	-44	41.6	21	59	53	-44	27.0				
40.0	22	1	34	-44	41.6						22	7	46	-44	12.6
64	22	2	29	-44	40.7										
	22	2	29	-44	40.7										
54.6	22	2	29	-44	40.7						22	8	40	-44	11.6
65	22	3	35	-44	53.3										
	22	3	35	-44	53.4										
	22	3	35	-44	53.4						22	9	46	-44	24.3
13.6 67	22	3	57	-45	12.8										
	22	3	57	-45	13.0										
	22	3	57	-45	12.9						22	10	10	-44	43.7
16.0 201	22	4	3	-44	58.2										
	22	4	3	-44	58.2										
	22	4	3	-44	58.2						22	10	14	-44	29.1
15.5 74	22	4	36	-44	28.0										
	22	4	36	-44	28.0										
	22	4	36	-44	28.0						22	10	47	-43	58.9
180	22	5	1	-45	4.1										
neb?	22	5	1	-45	4.0										
41.2	22	5	1	-45	4.0						22	11	13	-44	34.7

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1930phae.proj.2322M

H 14103
NEB.

	α			δ		Comp. Stars			Positions in 2000 α		δ
139	22	4	59	-47	6.0	-47	14063				
	22	4	59	-47	6.0	-46	14270				
	22	4	59	-47	6.0	22 1 55	-47	265	22	11 15	-46 36.6
	Δα = 636"			Δδ = 48.3'		22 12 31	-46	38.2			
	= 110.5 mm			= 46.0							
186	22	6	35	-47	2.3						
	22	6	33	-47	2.4						
	22	6	34	-47	2.4				22	12 49	-46 32.8
187	22	7	5	-47	25.0						
	22	7	5	-47	25.3						
	22	7	5	-47	25.2				22	13 20	-46 55.6
132	22	7	29	-47	6.6						
	22	7	29	-47	6.6						
	22	7	23	-47	6.6				22	13 38	-46 37.0
185	22	7	47	-46	48.1						
	22	7	46	-46	48.1						
	22	7	46	-46	48.1				22	14 00	-46 18.7
188	22	8	15	-47	8.1						
	22	8	15	-47	8.1						
	22	8	15	-47	8.1				22	14 29	-46 38.3
184	22	8	38	-46	53.9						
	22	8	38	-46	53.9						
	22	8	38	-46	53.9				22	14 52	-46 24.5

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#14103

	NEB.	α			δ		COMP. STARS					POSITIONS IN 2000 α		δ	
	138	22	8	55	-47	10.8	22	1	55	-47	26.5				
		22	8	55	-47	10.8	22	12	31	-46	38.2				
36.6		22	8	55	-47	10.8						22	15	19	-46 41.0
	131	22	8	55	-46	45.5									
		22	8	55	-46	45.5									
		22	8	55	-46	45.5						22	15	9	-46 16.1
32.8	212	22	10	27	-46	57.1									
		22	10	27	-46	57.1									
		22	10	27	-46	57.1						22	16	39	-46 27.5
55.6	160	22	10	50	-46	51.9									
	not?	22	10	50	-46	51.9									
		22	10	50	-46	51.9						22	17	2	-46 22.3
37.0	213	22	12	27	-46	48.7									
	not?	22	12	28	-46	48.7									
		22	12	28	-46	48.7						22	18	38	-46 18.9
18.7	184	22	5	20	-46	3.4	-46	14270							
		22	5	20	-46	3.3	-45	14610							
		22	5	20	-46	3.4	22	12	31	-46	38.2	22	11	38	-45 34.4
		Δα = 431"			Δδ = 83.9'		22	5	20	-45	14.3				
38.3		= 71.0 mm			= 87.3 mm										
	190	22	5	26	-45	17.7									
		22	5	26	-45	17.7									
34.5		22	5	26	-45	17.7						22	11	37	-44 48.3

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	α			δ		Comp. Stars					Positions in 2001 α		δ
84	22	6	5	-46	3.4	22	12	31	-46	38.2			
	22	6	5	-46	3.3	22	5	20	-45	14.3			
	22	6	5	-46	3.4						22	12	22 -45 34.4
83	22	6	15	-46	5.8								
	22	6	15	-46	5.8								
	22	6	15	-46	5.8						22	12	32 -45 36.8
81	22	6	11	-45	31.2								
neb?	22	6	12	-45	31.1								
	22	6	12	-45	31.1						22	12	23 -45 1.7
107	22	6	27	-45	46.6								
	22	6	27	-45	46.5								
	22	6	27	-45	46.6						22	12	38 -45 17.2
189	22	6	33	-45	22.6								
	22	6	33	-45	22.5								
	22	6	33	-45	22.6						22	12	44 -44 53.0
95	22	7	18	-46	22.1								
	22	7	18	-46	21.9								
H.N.2865	22	7	18	-46	22.0						22	13	32 -45 52.6
106	22	7	9	-45	52.3								
neb?	22	7	9	-45	52.2								
	22	7	9	-45	52.2						22	13	19 -45 22.7
200	22	7	27	-45	31.2						Continued in Book 6		
	22	7	27	-45	31.1								
	22	7	27	-45	31.2						22	13	37 -45 1.7

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	α	δ	COMP. STARS	POSITIONS 2000 α	POSITIONS 2000 δ
26	18 59 10	−61 31.3	−61 6348		
	18 59 9	−61 31.3	−61 6305		
	18 59 10	−61 31.3	19 2 46 −61 49.5	19 8 14	−61 22.5
34.4	Δα = 519″ = 61.2 mm	Δδ = 34.1′ = 36.5 mm	18 54 7 −61 15.4		
27	18 56 50	−61 21.0			
	18 56 50	−61 21.0			
36.8	18 56 50	−61 21.0		19 5 55	−61 12.6
25	19 1 38	−61 49.0			
	19 1 38	−61 49.0			
1.7	19 1 38	−61 49.0		19 10 42	−61 40.0
24	18 57 59	−63 4.6	−63 4473		
	18 57 59	−63 4.6	−63 4485		
17.2	18 57 59	−63 4.6	18 56 40 −63 9.7	19 7 27	−62 56.1
	Δα = 269″ = 31.0 mm	Δδ = 11.6′ = 10.8 mm	19 1 9 −62 58.1		
53.0 29	18 49 27	−61 35.4	−6 6284		
	18 49 27	−61 35.4	−61 6305		
	18 49 27	−61 35.4	18 48 4 −61 41.4	18 58 35	−61 28.2
52.6	Δα = 363″ = 43.8 mm	Δδ = 26.0′ = 26.0 mm	18 54 7 −61 15.4		
30	18 48 45	−61 24.4			
	18 48 45	−61 24.4			
22.7	18 48 45	−61 24.4		18 57 53	−61 17.4

N

1.7

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α			δ		Comp. Stars	Positions in 2000 α	δ
18	47	12	−61	6.2	−61 6305		
18	47	10	−61	6.2	−61 6260		
18	47	11	−61	6.2	18 54 7 −61 15.4	18 56 19	−60 59.3
Δα = 694″			Δδ = 14.8′		18 42 33 −61 0.6		
= 85.0 mm			= 14.5 mm				

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