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Measures of Spectrum Plates
of Southern Draper Catalogue
No 82

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V. O.K.! Ho ± 15

5.3 = 5.3 13.5 = 16.5 Less than 15.0 add.
5.0 = 5.0 18.6 = 11.4 Greater than 15.0 subtract.
5.1 = 5.1 19.5 = 10.5

See Plate Cover B12012 -

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Page.	Plate.	R.A. h	Dec. °	No. Stars.
4	B8592	23.0	-81.0	107
12	B19949	1.2	-80.0	162
24	B20126	3.2	-80.1	222
40	B20151	5.0	-80.0	93
48	B10820	7.1	-80.0	58
52	B8990	8.8	-80.0	141
62	B8570	2.0	-70.0	121
72	B20133	4.7	-70.3	91
80	B9062	6.0	-70	238
98	B9003	7.3	-70.0	196

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4

R.A. 23.0h Dec. -81.0°

July 23, 1903,

8.00 P.M. Plate 61 B. 8592

V	H	61	Rem.	L.	K	Int	July 23, 1903 B 9.0 00? m	Photom. Magn.	Diff.	
√4.8	13.4	A		E	N	1	4.13			23
√4.3	17.7	H		E	N	1	4.00	7.36	3.36	2
√3.8	20.4	F	4862	K	10	2	3.61	6.17	2.56	2
√6.5	6.8	G		K	10	2	3.61, 3.81	6.60	2.99	0
√6.1	21.7	K		K	10	2	3.58, 3.96	6.21	2.63	2
√5.9	21.9	H		E	N	1	4.11, 4.45	6.52	2.41	2
√6.5	22.7	F	4863	N	10	3	3.08	5.91	2.83	2
√5.8	23.0	H		E	N	1	4.35	6.54	2.19	21
√6.9	23.3	H		K	10	2	4.13, 4.34	6.62	2.49	21
√7.7	8.2	F	4864	K	10	1	4.16			0
√8.0	9.0	K		K	10	3	2.41, 2.98	4.73	2.32	2
√7.2	11.5	G5K		K	10	2	3.10, 3.32	5.99	2.89	23
√7.4	17.1	A2F		N	4	3	3.02	6.68	3.66	2
√8.1	12.2	F8G		K	12	3	2.56	5.78	3.22	2
√8.9	13.4	A		E	N	1	4.20			2
√9.0	19.3	F	4865	K	10	1	4.08			2
√8.7	20.5	A8F	4866	K	10	3	2.50	5.63	3.13	2
√8.9	22.1	F	4867	K	10	1	4.23			21
√9.1	6.7	G			12	4	0.20	2.90	2.70	0
√9.4	7.1	K		K	10	3	3.10, 3.80	5.86	2.76	0
√9.9	18.9	H		E	N	1	3.90, 4.25	6.76	2.86	22
√9.4	22.0	A2F		O	5	2	2.86	6.64	3.78	21
√9.5	24.3	G5K		K	12	3	1.58, 1.80	3.74	2.16	21
√10.4	7.7	A		E	N	1	3.86			0
√10.7	8.8	H		E	N	1	3.67, 4.00			0
√10.7	10.4	H		E	N	1	4.07, F			23
√10.8	18.2	K		K	10	2	3.21, 3.90	6.08	2.87	23
√10.6	18.2	H		E	N	1	3.90, 4.25			23
√11.8	8.4	F	4868	K	10	2	3.08	6.68	3.60	0

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1875 Approx.		C.P.D. Design		1875 R.A.	1875 Dec.		Mag.	R.A. 1900		Dec. 1900		Vol.
23	13	-76	18	-76	1576	23 12 8.0	-76	18.9	7.2			
22	36	-76	5	-76	1564	22 36 17.5	-76	4.8	7.1	22	38.4 -75	57 54
22	15	-75	38	-75	1748	22 14 55.0	-75	38.8	6.6	22	17.1 -75	31 50
0	10	-76	36	-76	19	0 10 10.1	-76	36.4	7.4	0	11.4 -76	28 50
22	0	-76	45	-76	1549	22 0 1.0	-76	43.6	7.0	22	2.5 -76	37 50
21	59	-76	30	-76	1547	21 58 50.0	-76	29.3	7.3	22	1.2 -76	22 50
21	50	-76	42	-76	1542	21 50 45.0	-76	42.8	6.0	21	53.2 -76	36 50
21	49	-76	15	-76	1541	21 49 58.0	-76	16.4	8.0	21	52.5 -76	9 54
21	44	-76	48	-76	1540	21 44 32.0	-76	48.0	7.3	21	47.1 -76	41 54
0	1	-77	24	-77	1	0 1 0.3	-77	25.5	7.8			
23	54	-77	45	-77	1596	23 55 8.5	-77	45.4	6.6	23	56.4 -77	37 50
23	30	-77	32	-77	1583	23 30 35.6	-77	33.6	6.9	23	32.2 -77	26 50
22	40	-77	44	-77	1554	22 39 11.7	-77	42.6	6.6	22	41.4 -77	35 50
23	26	-78	6	-78	1473	23 25 10.0	-78	4.5	6.4	23	26.9 -77	57 50
23	14	-78	30	-78	1471	23 14 19.0	-78	28.3	8.0			
22	16	-78	21	-78	1447	22 15 37.0	-78	20.9	8.0			
22	6	-78	8	-78	1442	22 5 37.0	-78	7.9	6.0	22	8.1 -78	1 50
21	49	-77	54	-77	1528	21 49 31.2	-77	54.5	7.7			
0	19	-77	56	-77	16	0 19 16.5	-77	57.4	3.3	0	20.5 -77	49 50
0	16	-78	6	-78	9	0 16 8.0	-78	7.2	7.0	0	17.2 -77	59 50
22	18	-78	50	-78	1449	22 17 51.0	-78	50.9	8.2	22	20.4 -78	43 54
21	49	-78	17	-78	1430	21 48 41.9	-78	15.5	7.3	21	51.4 -78	8 50
21	28	-77	58	-77	1510	21 27 29.0	-77	56.6	5.9	21	30.4 -77	50 50
0	14	-78	40	-78	6	0 13 37.0	-78	41.0	7.5			
0	4	-78	58	-78	4	0 4 10.0	-78	59.8	7.9			
23	48	-79	13	-79	1243	23 47 55.0	-79	12.0	7.9			
22	24	-79	24	-79	1206	23 23 25.0	-79	24.9	7.4	22	25.9 -79	17 50
22	23	-79	16	-79	1205	22 23 28.0	-79	15.2	8.2			
0	10	-79	27	-79	7	0 11 15.0	-79	28.4	6.4	0	12.3 -79	20 50 and 54

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Plate B. 85-92

	U	H	66	Rem.	L.	K	Int.	Br	Photom. Magn.	Diff.	
✓	11.2	9.2	A		η	2?	2	3.00			0
✓	11.0	11.5	H		K	10	3	2.67 3.10	5.68	3.01	2
✓	11.5	22.3	H		ε	n	1	4.15 F			2
✓	12.7	8.6	H		K	10	1	4.10 F	7.80	3.70	0
✓	12.1	9.2	A		ε	n	1	4.00	7.98	3.98	0
✓	12.4	9.7	H		ε	n	1	4.10 F	7.82 ~~12.49~~	3.72	2
✓	12.3	10.4	A		ε	n	1	4.25	8.78	4.53	2
✓	12.1	14.0	G		K	10	3	3.22 3.43	6.29	3.07	2
✓	12.0	14.1	F	4869	K	10	1	4.01	7.77 ~~6.29~~	3.76	0
✓	12.0	15.0	A2F		θ	3	3	2.51	6.20	3.69	2
✓	12.2	19.4	A		ε	n	1	4.23	8.41	4.18	2
✓	13.8	9.1	G2K		K	10	3	3.02 3.60	6.66	3.64	
✓	13.4	11.3	G		K	10	1	4.18	7.91	3.73	2
✓	13.9	14.2	A2F	4870	K	10	1	4.14	8.25	4.11	2
✓	13.3	16.6	B8A	4871	λ	n	3	1.68	5.52	3.84	2
✓	13.5	21.3	H		ε	n	1	3.92 4.20	7.45	3.53	2
✓	13.4	23.1	F2G	4872	K	10	3	2.87	6.33	3.46	2
✓	14.3	9.7	K		K	10	2	3.52 3.90	7.21	3.69	0
✓	14.6	10.4	A8F	4873	K	10	1	3.96	7.85	3.89	2
✓	14.9	13.2	H		ε	n	1	3.90 4.10	7.39	3.49	2
✓	14.9	14.7	K		K	10	2	3.63 4.01	6.48	2.85	2
✓	14.3	19.1	Mpe.	4874	K	12	3	2.91	5.11	2.20	2
✓	14.7	22.9	A		θ	n	3	2.81	6.72	3.91	2
✓	14.8	23.4	H		ε	n	1	4.10 4.35	7.39	3.29	2
✓	16.0	7.7	H		ε	n	1	3.75 4.35	7.95	4.20	0
✓	15.8	16.6	A5F	4875	μ	7	4	0.86	4.34	3.48	2
✓	16.2	22.9	A		ε	n	1	4.33	8.13	3.80	2
Did he not 15.4?	✓	16.4	23.8	H		ε	n	1	4.30 F	7.63	3.33	2
	✓	16.9	23.9	A		η	n	2	2.68	7.40	3.72	2

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1875 Apparent	C.P.D. Design.	RA	Dec.	Mag.	1875 R.A. 1900	Dec. 1900		Vol
0h 2m - 79° 18'	-79	1	0h 1m 53.0s -79	17.7	6.5 ✓			
23 37 - 79 30	-79	1239	23 37 20 -79	29.1	6.4 ✓	23 38.6 - 79	21	50
21 38 - 79 10	-79	1176	21 39 72 -79	9.5	8.0 ✓			
0 4 - 79 40	-79	4	0 4 6.0 -79	41.8	7.4 ✓	0 5.3 - 79	34	54
0 13 - 79 57	-79	8	0 12 26.0 -79	55.5	7.6 ✓	0 13.5 - 79	48	54
23 59 - 79 57	-79	1249	23 59 6.0 -79	57.0	8.0 ✓	0 0.4 - 79	49	54
23 50 - 79 57	-79	1244	23 50 55 0 -79	57.7	7.7 ✓	23 52.3 - 79	50	54
23 10 - 80 10	-80	1067	23 9 39 -80	9.3	7.3 ✓	23 11.6 - 80	1	50
23 8 - 80 8	-80	1065	23 7 48 -80	7.0	7.8 ✓	23 ~~11.6~~ 9.8 - ~~80~~ 79	59	54
22 59 - 80 9	-80	1064	22 58 6 -80	9.3	6.2 ✓	23 0.2 - 80	1	50
22 8 - 80 56	-~~80~~ 79	1197	22 7 6 -~~80~~ 79	55.0	8.2 ✓	22 9.9 - 79	48	54
0 10 - 80 34	-80	7	0 10 25 -80	32.6	6.7 ✓	0 11.5 - 80	25	54
23 43 - 80 36	-80	1078	23 43 40 -80	35.7	7.8 ✓	23 45.2 - 80	28	54
23 8 - 81 6	-81	1029	23 7 59 -81	6.4	7.6 ✓	23 10.0 - 80	58	54
22 39 - 80 45	-80	1055	22 38 35.0 -80	41.0	4.9 ✓	22 41.0 - 80	39	50
21 43 - 80 18	-80	1034	21 42 27 -80	18.3	7.9 ✓	21 45.5 - 80	11	54
21 23 - 80 0	-79	1158	21 23 10.3 -79	59.7	7.0 ✓	21 26.5 - 79	54	50
0 5 - 80 52	-80	3	0 4 53 -80	52.2	7.4 ✓	0 7.0 - 80	44	54
23 57 - 81 6	-81	1050	23 57 38 -81	5.4	7.3 ✓	23 58.9 - 80	57	54
23 23 - 81 30	-81	1036	23 23 0 -81	30.9	8.2 ✓	23 24.9 - 81	23	54
23 3 - 81 36	-81	1024	23 1 39 -81	35.4	7.7 ✓	23 3.8 - 81	27	50
22 5 - 81 4	-81	995	22 5 52 -81	3.6	6.6 ✓	22 8.8 - 80	57	50
21 17 - 80 36	-80	1017	21 16 43 -80	34.8	6.4 ✓	21 20.2 - 80	29	50
21 13 - 80 28	-80	1013	21 12 5 -80	27.5	8.2 ✓	21 15.6 - 80	22	54
0 35 - 81 21	-81	9	0 36 13 -81	20.6	7.8 ✓	0 36.9 - 81	13	54
22 35 - 82 1	-82	889	22 33 7 -82	2.0	4.7 ✓	22 35.8 - 81	54	50
21 9 - 81 14	-81	954	21 8 50 -81	12.7	8.2 ✓	21 12.5 - 81	7	54
21 6 - 80 37	-80	1006	21 4 45 -80	37.9	8.2 ✓	21 8.3 - 80	32	54
21 0 - 80 50	-80	1000	20 59 15 -80	51.3	7.4 ✓	21 3.0 - 80	45	54

Correct if 5.4 is read.

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July 23, 1903

Plate B 6-92

	V.	H	Cl.	Rem.	L	K	Int.	Bx.	Photom. Mag.	Diff.	
✓	17.8	11.6	G5K		K	10	3	{2.41 2.90}	5.68	3.27	2
✓	17.4	12.0	G8K		K	12	3	{2.01 2.35}	5.10	3.09	2
✓	16.9	24.4	A8F	4876	K	10	2	3.26	7.28	4.02	2
✓	19.0	6.0	K		E	N	1	{4.15 F}	8.09	3.94	
✓	18.7	6.7	K		E	N	1	{4.14 F}	7.79	3.65	
✓	18.1	10.8	G5K		K	10	3	{2.29 2.50}	5.30	3.01	
✓	18.3	12.7	F	4877	K	10	2	3.63	7.65	4.02	2
✓	18.3	13.4	A		E	N	1	4.16			2
✓	18.5	15.4	K		E	N	1	{3.76 4.02}	7.78	4.02	2
✓	18.8	16.8	F	4878	K	10	1	3.80	8.02	4.22	2
Zittau not 19.9 ✓	19.1	18.9	F5G	4879		10	3	2.23	5.38	3.15	21
✓	18.7	20.1	F2G	4880	K	10	2	3.12	7.03	3.91	21
✓	18.2	21.4	A8F	4881	K	10	2	3.53	7.65	4.12	21
✓	19.4	12.3	K		K	10	2	{3.50 3.83}	6.75	3.25	2
✓	19.8	15.7	F	4882	K	10	1	3.99			2
✓	19.6	16.7	A5F		η	10	3	2.80	6.76	3.96	2
✓	19.5	20.9	A		ε	N	3	2.59	6.52	3.93	2
✓	19.1	22.1	A		E	N	1	3.90	8.14	4.24	2
✓	19.1	22.9	G		K	10	2	3.42	6.89	3.47	20
✓	21.0	5.7	K		K	10	2	{3.42 3.89}	7.19	3.77	1
✓	20.3	9.6	A		E	N	1	3.95	9.26	5.31	0
2 Chi not 22.2 10.4 ✓	22.2	10.4	F	4883	K	10	2	3.90	8.06	4.16	0
✓	21.0	13.0	G5K		K	10	2	{3.50 3.96}	7.86	4.06	23
✓	20.9	13.5	K		E	N	1	4.12			23
✓	20.6	16.3	A		E	N	2	3.58	7.83	4.25	22
✓	20.3	17.4	A		E	N	1	3.76	8.08	4.32	22
✓	20.1	18.4	K		K	10	2	{3.66 4.00}	7.41	3.75	21
✓	20.1	20.1	K		E	N	1	{4.08 F}			21
✓	20.2	20.8	A		O	N	2	2.89	7.11	4.22	21

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1875 Appnot	C.P.D. Design.		1875 RO	1875 Dec.		Mag.	R.A. 1900	Dec. 1900		
h m	°	h m s		°			h m	°		
23 50	-82 52	-82 907	23 50 38	-82	52.0	6.7	23	52.1	-82	44 50
23 45	-82 44	-82 905	23 44 41	-82	42.8	6.1	23	46.2	-82	34 50
20 48	-81 12	-81 938	20 47 47	-81	10.7	7.4	20	51.7	-81	5 See Remark in 54
1 16	-82 14	-82 22	1 16 42	-82	12.0	8.2	1	16.7	-82	4 54
1 16	-82 18	-82 16	1 16 1	-82	19.0	8.4	1	6.1	-82	11 54
0 4	-82 56	-82 4	0 4 19	-82	55.2	6.3	0	5.5	-82	47 50
23 36	-83 12	-83 756	23 35 43	-83	11.9	7.8	23	37.5	-83	4 54
23 25	-83 12	-83 751	23 23 56	-83	12.7	8.3				
22 50	-83 22	-83 743	22 49 47	-83	22.5	8.1	22	52.4	-83	14 54
22 24	-83 27	-83 738	22 23 54	-83	27.6	8.0	22	27.1	-83	20 54
21 33	-83 18	-83 722	21 31 30	-83	17.4	6.2	21	35.6	-83	11 50 Correct for 19.9 ?
21 30	-83 0	-83 721	21 30 38	83	0.2	7.2	21	34.6	-82	53 54
21 15	-82 29	-82 859	21 15 36	-82	28.	7.6	21	19.6	-82	22 54
23 45	-83 42	-83 758	23 46 13	-83	42.2	8.0	23	47.8	-83	34 54
22 42	-84 2	-84 650	22 4 59	-84	1.0	7.7				
22 27	-83 54	-83 739	22 24 15	-83	53.9	6.7	22	27.6	-83	46 54
21 15	-83 14	-83 716	21 13 17	-83	13.4	6.5	21	17.6	-83	7 50
21 0	-82 42	-82 850	20 59 2	-82	43.0	7.9	21	3.4	-82	37 54
20 50	-82 30	-82 843	20 48 6	-82	30.9	7.6	20	52.5	-82	25 54
1 39	-82 54	-82 28	1 39 55	-82	54.8	7.8	1	39.3	-82	47 See remark in 54
0 37	-83 42	-83 10	0 36 49	-83	43.2	7.8	0	37.3	-83	35 54
0 23	-83 48	-83 6	0 23 4	-83	49.9	7.8	0	23.8	-83	42 54 Correct if 20.2 intended
23 39	-84 34	-84 658	23 39 12	-84	33.4	8.1	23	41.0	-84	25 54
23 26	-84 31	-84 656	23 27 16	-84	31.8	8.0				
22 28	-84 24	-84 646	22 29 44	-84	23.6	7.8	22	33.2	-84	16 54
22 18	-84 10	-84 639	22 8 27	-84	8.6	7.7	22	12.2	-84	2 54
21 52	-84 58	-84 730	21 51 10	-84	57.7	8.2	21	55.2	-83	51 54
21 23	-83 38	-83 719	21 22 53	-83	37.9	8.7				
21 10	-83 34	-83 715	21 9 48	-83	34.1	6.9	21	15.3	-83	28 See remark in 54

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Plate B. 8599

	V.	H	Cl.	Resn.	L.	K	Int.	Br.	Photom. Magn.	Diff.	
✓	20.8	21.1	A&F	4884	K	10	2	3.22	7.35	4.13	2
✓	21.0	21.4	H		E	N	1	{3.78 4.08	~~7.58~~		2
✓	22.0	6.5	G		K	10	3	{3.90 4.08	5.88	1.92	
✓	21.4	8.5	H		E	N	1	{4.20 F	8.19	3.99	
✓	22.0	8.8	H		K	10	2	{3.70 4.02	7.40	3.70	
✓	21.9	9.7	G		K	10	1	3.28	7.96	4.68	
✓	21.6	19.1	A		O	N	2	3.29	7.65	4.36	2
✓	21.3	22.3	H		E	N	1	{3.76 4.10	7.58	3.82	2
✓	22.5	6.8	H		E	N	1	{3.72 4.05	7.36	3.64	
✓	22.9	6.7	G		K	10	2	{3.60 3.80			
✓	23.4	12.3	H		K	10	3	{3.01 3.70	5.74	2.73	
✓	23.6	18.3	H		K	10	2	{3.37 3.92	6.71	3.34	2
✓	22.6	18.7	H		E	N	1	{4.22 F			2
✓	23.4	19.4	H		K	10	3	{3.25 3.9~~8~~7	6.40	3.15	2
✓	24.7	19.3	A		8	N	2	3.80			2
✓	24.5	19.6	H			N	2	{3.79 4.11	6.97	3.18	2
✓	23.7	19.9	G		K	10	2	3.85	7.76	3.91	2
✓	22.8	20.2	F	4885	K	10	2	3.48	7.53	4.05	2
✓	24.2	21.8	A		5	N	2	3.53	7.08	3.55	2
9.00 P.m.	✓	22.8	23.8	A		η	N	3	2.61	6.26	3.65

9.30 P.m.

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1875 Approx	B.D. Design.		R.A. 1875	Dec. 1875	Mag.	P.A. 1900		Dec. 1900		
20 59 -83 43	-83 711	20	57 26	-83 43.3	7.6	v	21	4.2 - 83	37	54
20 51 -83 45	-83 709	20	52 30	-83 46.0	8.6	v	20	57.5 - 83	40	
1 40 -83 36	-83 27	1	41 19	-83 36.6	6.3	v	1	40.5 - 83	29	50
1 2 -83 56	-83 21	1	3 34	-83 55.5	8.3	v	1	3.4 - 83	47	54
1 4 -84 16	-84 20	1	6 8	-84 15.5	8.2	v	1	5.9 - 84	8	54
0 50 -84 25	-84 16	0	49 23	-84 25	7.4	v	0	49.4 - 84	17	54
21 29 -84 30	-84 633	21	28 19	-84 31.8	7.2	v	21	33.1 - 84	25	54
20 52 -84 45	-84 709	20	52 30	-84 46.0	8.6	v	20	57.5 - 83	40	54
1 42 -83 54	-83 28	1	42 24	-83 52.5	8.2	v	1	41.5 - 83	45	54
1 48 -84 0	-83 30	1	47 43	-83 59.4	7.7	v				
0 9 -85 42	-85 2	0	8 31	-85 41.3	7.5	v	0	9.5 - 85	33	50
21 29 -85 37	-85 528	21	28 39	-85 36.4	7.6	v	21	34.3 - 85	29	54
21 28 -85 7	-85 527	21	27 28	-85 6.8	8.7	v				
21 5 -85 21	-85 519	21	4 36	-85 20.4	7.9	v	21	10.5 - 85	14	50
20 53 -85 48	-85 518	20	52 54	-85 47.9	7.8	v				
21 48 -85 43	-85 516	20	47 0	-85 42.0	8.1	v	20	53.7 - 85	36	54
20 51 -85 16	-85 517	20	50 51	-85 15.4	8.0	v	20	56.9 - 85	9	54
20 55 -84 48	-84 626	20	54 57	-84 49.1	7.6	v	21	0.6 - 84	43	See remarks in 54
20 13 -84 49	-84 619	20	12 27	-84 49.6	7.1	v	20	18.8 - 84	50	54
19 58 -83 43	-83 695	19	57 56	-83 41.2	6.3	v	20	3.6 - 83	37	50

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R.A. 1h 2m -80.0° Dec.

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B 19949

Plate B. 85-92

9.30 P.m. V	1+	bl.	Rem.	L.	k	Int.	Br.	8.05 P.m. Photom. Magn.	Diff.
5.7	8.7	M		E	n	1	3.98 / 4.34	7.04	3.06
5.8	10.4	G5		1k	10	2	3.90 / 4.33		
4.6	17.8	1+		1k	10	2	3.40 / 3.92	6.80	3.40
5.3	17.5	G		1k	10	2	4.05 / 4.18	7.78	3.73
5.8	18.1	M F5		1k	12	4	1.80 / 3.05	4.96	3.16
4.7	18.8	F	4886	1k	10	1	3.18	7.72	4.54
6.1	7.2	1+		1k	10	2	3.85 / 4.28	7.28	3.40
6.2	11.4	F	4887	1k	10	1	4.09		
6.1	13.0	1+		E	n	1	4.40 / F		
6.6	17.0	A		E	n	1	4.25		
6.5	22.6	1+		1k	10	2	3.65 / 4.15		
7.2	9.4	1+		E	n	1	4.11 / F		
7.5	11.4	A		O	n	2	3.49		
7.4	12.2	A		E	n	1	4.27		
7.8	14.6	A		E	n	1	4.17		
7.4	16.6	F	4888	1k	10	2	3.65		
7.6	18.8	A		E	n	1	4.27		
7.3	19.4	A		η	n	2	3.58		
7.5	20.6	A		E	n	1	4.16		
7.7	21.0	F5G		1k	10	1	4.20		
7.8	21.7	G		1k	10	1	4.20		
7.6	22.6	1+		E	n	1	4.10 / F		
8.9	8.9	1+		1k	10	2	3.70 / 4.20		
8.8	8.0	k		1k	10	2	3.36 / 3.97	6.87	3.51
8.6	11.6	F	4889	1k	10	2	3.51		
8.9	11.7	A5F		η	10	2	4.14		
8.1	11.7	A5F		η	10	2	3.52		
8.1	14.2	F2G	4890	1k	10	2	3.29		
9.0	13.8	H		E	n	1	3.90 / 4.15		
9.0	15.6	1+		E	n	1	4.05 / F		

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1875 Apkeep	C.P.D. Design.			1875 R.A.	1875 Dec.	Magn.	P.A. 1900	Dec. 1900		
2 0 -75 3	-75 144	✓2	h 0	m 37.0	-75°	2.8	8.4	This is the only plate with this image, but does not mean spathy		
1 44 -75 22	-75 123	✓1	44	50.8	-75	21.9	8.2 ✓			
0 50 -74 58	-74 74	✓0	50	50.7	-74	59.1	7.4 ✓	0	51.6 -74	51 54
0 48 -75 20	-75 68	✓0	48	54.0	-75	19.9	7.6 ✓	0	49.7 -75	12 54
0 44 -75 37	-75 64	✓0	44	14.0	-75	36.2	6.6 ✓	0	45.1 -75	28 50
0 39 -74 56	-74 60	✓0	39	30.9	-74	56.9	8.0 ✓	0	40.4 -74	49 54
2 9 -75 6	-75 156	✓2	10	24.3	-75	5.2	7.8 ✓	2	10.6 -74	58 54
1 37 -75 36	-75 111	✓1	37	54.8	-75	37.1	8.0 ✓			
1 25 -75 42	-75 88	✓1	25	15.6	-75	41.5	8.4 ✓			
0 53 -76 6	-76 80	✓0	52	45.0	-76	5.2	8.5 ✓			
0 8 -75 36	-75 16	✓0	8	9.4	-75	36.5	7.7 ✓			
1 55 -75 59	-75 140	✓1	55	46.8	-75	58.7	8.4 ✓			
1 40 -76 18	-76 126	✓1	39	36.1	-76	17.6	8.0 ✓			
1 33 -76 19	-76 112	✓1	32	37.3	-76	20.1	8.3 ✓			
1 13 -76 37	-76 91	✓1	13	13.0	-76	37.4	8.0 ✓			
0 56 -76 30	-76 81	✓0	55	59.0	-76	29.2	8.3 ✓			
	-76 82	0	56	5.0	-76	29.2	8.9			
0 37 -76 30	-76 72	✓0	36	50.1	-76	29.8	8.4 ✓			
0 33 -76 17	-76 68	✓0	33	40.2	-76	17.6	7.8 ✓			
0 22 -76 17	-76 40	✓0	22	22.5	-76	18.3	8.4 ✓			
0 19 -76 27	-76 36	✓0	18	6.25	-76	22.2	8.4 ✓			
0 13 -76 22	-76 22	✓0	12	26.6	-76	21.5	8.6 ✓			
0 6 -76 9	-76 11	✓0	5	56.8	-76	10.4	8.4 ✓			
2 27 -76 18	-76 201	✓2	27	48.0	-76	17.8	8.2 ✓			
2 10 -76 34	-76 170	✓2	10	37.6	-76	32.8	7.8 ✓	2	10.6 -76	26 54
1 39 -76 50	-76 125	✓1	39	31.6	-76	52.5	7.9 ✓			
	-77 47	↓	21	11.5	-77	15.9	8.5			
1 37 -76 40	-76 123	✓1	37	40.8	-76	34.2	8.0 ✓			
1 17 -76 48	-76 93	✓1	16	46.0	-76	48.3	7.5 ✓			
1 4 -77 19	-77 43	✓1	4	26.0	-77	20.5	8.5 ✓			

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Plate ~~B 8595~~

	α.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photom. Magn.	Diff.	
	8.9	16.8	K		K	10	2	3.23 / 3.82			0
	8.6	19.2	A&F	4891	K	10	3	2.28	6.82	4.54	0
	8.3	21.8	K		K	10	3	2.70 / 3.25	6.60	3.90	0
	9.6	7.8	G5K		K	10	3	2.50 / 2.97	6.54	4.04	2
	9.4	8.1	F	4892	K	10	2	3.63			2
	9.9	8.4	A&F	4893	O	10	3	2.02	6.66	4.64	2
	9.8	11.0	A		E	N	1	4.20			1
	9.2	12.9	A		E	N	1	4.00			1
	9.8	14.3	F2G	4894	K	10	2	3.51			1
	9.7	20.7	F	4895	K	10	2	3.63			0
	9.9	21.8	K		E	N	1	4.10 / 4.35			0
	10.7	11.5	F2G	4896	"	12	2	2.87			1
	10.1	15.3	F	4897	K	10	2	3.81			1
	10.8	15.8	A		L	N	3	2.90			1
	10.7	16.1	K		K	10	3	3.22 / 3.75			0
	10.9	18.9	F	4898	K	10	1	4.01			0
	10.5	20.3	G?			12	5	B	2.90		0
	11.0	20.6	K5		K	10	3	2.00 / 2.88	5.86	3.86	0
	10.7	20.8	G		K	10	2	3.41			0
	10.1	22.5	F	4899	K	10	2	3.08			0
	10.8	22.9	K			12	4	0.40 / 1.70	4.73	4.33	23
	10.9	23.1	A		E	N	1	3.80			23
	10.9	6.9	A		E	N	1	4.35			2
	11.2	10.6	A&F		O	10	3	2.45			1.
	11.9	13.1	K		K	10	2	2.40 / 3.91			1
	11.9	18.0	K		K	12	3	1.91 / 2.87	6.65		0
	12.8	10.7	F	4900	K	10	4	1.08	6.22	5.14	1
	13.0	11.5	A		E	N	1	3.68			1
10.00 P.M.	12.8	13.0	K			12	3	1.56 / 2.50	6.06	4.50	1

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1875 C.P.D. 1875 1875

Object	Design.	R.A.	Dec.	Mag.	P.A. 1900	Dec. 1900				
0* 55 - 77	13	-77	37	0th	53	50.0	-77°	13.9	8.3	✓				
0 32 - 76	59	-76	67	0	32	9.3	-76	59.9	6.9	✓	0	33.1	-76	52	54
0 9 - 76	36	-76	19	0	10	10.1	-76	36.4	7.4	✓	0	11.4	-76	28	50
2 14 - 76	55	-76	181	2	14	22.3	-76	56.4	7.4	✓	2	14.4	-76	49	54
2 11 - 76	54	-76	173	2	11	6.1	-76	53.1	8.0	✓					
2 10 - 77	13	-77	95	2	10	23.2	-77	12.7	7.1	✓	2	10.4	-77	6	54
1 47 - 77	23	-77	68	1	46	45.0	-77	24.0	8.6	✓					
1 29 - 77	17	-77	52	1	29	30.8	-77	18.3	8.4						
1 16 - 77	40	-77	46	1	16	42.5	-77	41.3	8.0	✓					
0 17 - 77	24	-77	15	0	17	57.2	-77	25.1	7.8	✓					
0 7 - 77	26	-77	5	0	7	36.4	-77	26.1	8.4	✓					
1 44 - 77	59	-77	64	1	44	37.5	-77	58.9	7.1	✓					
1 7 - 77	50	-77	45	1	7	25.0	-77	52.2	8.3	✓					
1 2 - 78	15	-78	30	1	2	41.0	-78	15.2	7.2	✓					
0 59 - 78	13	-78	28	0	59	35.0	-78	13.2	8.1	✓					
0 32 - 78	12	-78	14	0	32	54.0	-78	10.3	8.2	✓					
0 19 - 77	58	-77	16	0	19	16.5	-77	57.4	3.3	✓	0	20.5	-77	49	50
0 16 - 78	8	-78	9	0	16	8.0	-78	7.2	7.0	✓	0	17.2	-77	59	50
0 15 - 77	56	-77	10	0	14	53.5	-77	55.0	7.8	✓					
0 1 - 77	26	-77	1	0	1	0.3	-77	25.5	7.8	✓					
23 55 - 77	45	-77	1596	23	55	8.5	-77	45.4	6.0	✓	23	56.4	-77	37	50
23 54 - 77	43	-77	1594	23	54	0.5	-77	43.0	8.0	✓					
2 25 - 77	22	-77	109	2	25	35.6	-77	22.1	8.4	✓					
1 54 - 78	7	-77	40	1	53	50.0	-77	6.4	6.9	✓					
1 30 - 78	42	-78	36	1	30	41.0	-78	42.6	8.5	✓					
0 40 - 78	45	-78	21	0	40	41.0	-78	46.1	7.6	✓	0	41.5	-78	38	54
1 56 - 78	59	-78	42	1	56	55.5	-78	57.6	6.4	✓	1	56.0	-78	51	50
1 48 - 79	6	-79	45	1	48	54.0	-79	6.2	8.2	✓					
1 32 - 79	8	-79	40	1	32	49.0	-79	8.4	7.1	✓	1	33.0	-79	1	50

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9.10 P.M. Plate ~~B. 8590~~

	V.	H.	Cl.	Rem.	L.	K	Int.	Br.	Photom.	Magn.	Diff.	
√	12.5	14.7	G		K	10	1	4.10				1
√	12.5	15.4	F		K	10	1	4.06				1
√	12.3	15.8	a		η	2	2	3.02				1
√	12.4	15.9	a		D	2	2	3.30				1
√	12.6	20.0	a		E	n	1	4.04				0
√	12.2	20.6	a8F	4902	K η	10	2	3.00				0
√	12.9	21.4	K		K	10	2	{2.81 3.62				0
√	12.8	21.7	H		E	n	1	{3.49 4.30				0
√	13.7	10.1	F	4903	K	10	2	3.50				2
√	14.0	10.5	G5K			12	3	{3.22 2.40	6.85		4.63	2
√	14.7	10.7	a8F	4904	η	10	2	3.07				1
√	15.0	9.3	H		E	n	1	{3.83 4.20	7.94			2
√	14.1	12.4	K		K	12	3	{1.95 2.70	6.24		4.29	1
√	13.8	13.3	H		E	n	1	{4.35 F				1
√	13.8	13.7	K		K	10	2	{3.47 4.00	8.09		4.62	1
√	14.1	14.1	F	4905	K	10	1	{4.30 F	9.22		4.92	1
√	14.6	20.2	G		K	10	2	3.19	7.98		4.79	0
√	13.7	20.5	F	4906	K	10	3	1.71	6.68		4.97	0
√	14.3	21.0	F	4907	K	10	2	3.00	7.80		4.80	0
√	13.5	21.3	H		E	n	1	{4.15 F				0
√	13.5	21.4	a		D	2	3	2.00				0
√	13.8	22.7	K		K	10	2	{3.26 4.06				23
√	14.9	6.9	F	4908	K	10	1	4.25				2
√	15.2	7.6	H		E	n	1	{3.96 4.30				2
√	15.2	7.8	H			15	4	{0.60 1.93	5.29		4.69	2
√	15.4	12.4	F2G	4909	K	10	2	{3.90 4.25	8.48		4.58	1
√	15.7	12.6	F	4910	K	10	2	3.12	7.88		4.76	1
√	15.9	12.7	a		D	4	3	2.52	7.71		5.19	1
√	15.6	13.4	a		K	2	3	1.52	7.26			1

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1875 C.P.D. 1875 1875

Approx	Design.	R.A.	Dec.	Magn.	R.A. 1900	Dec 1900					
1 13	-79 3	-79 34	1 13 40.0	-79°	2.4	8.8	✓				
1 6	-79 6	-79 30	1 6 42.0	-79	5.1	8.7	✓				
1 2	-78 58	-78 29	1 2 10.0	-78	58.1	7.9	✓				
1 1	-79 0	-79 25	1 1 4.0	-79	0.8	7.8	✓				
0 19	-78 55	-78 11	0 19 24.0	-78	56.6	8.5	✓				
0 13	-78 42	-78 6	0 13 37.0	-78	41.0	7.5	✓				
0 4	-79 0	-78 4	0 4 10.0	-78	59.8	7.9	✓				
0 1	-78 54	-78 2	0 1 52.0	-78	54.4	8.3	✓				
2 4	-79 18	-79 52	2 4 39.1	-79	17.8	8.2	✓				
2 2	-79 27	-79 51	2 1 49.6	-79	28.2	7.8	✓	2	1.6	-79 21	54
1 58	-79 22	-79 50	1 58 29.0	-79	22.2	7.7	✓				
2 18	-79 46	-79 58	2 17 54.6	-79	46.0	8.4	✓	2	17.4	-79 39	54
1 40	-79 46	-79 44	1 41 18.0	-79	46.8	7.0	✓	1	41.3	-79 39	50
1 30	-79 36	-79 39	1 30 32.0	-79	36.1	9.2	✓				
1 27	-79 41	-79 37	1 26 58.0	-79	41.2	8.5	✓	1	27.1	-79 33	54
1 22	-79 52	-79 36	1 22 38.0	-79	51.7	8.9	✓	1	22.9	-79 44	54
0 13	-79 55	-79 8	0 12 26.0	-79	55.5	7.6	✓	0	13.5	-79 44	54
0 12	-79 29	-79 7	0 11 50.0	-79	28.4	6.4	✓	0	12.3	-79 20	50 and 54
0 4	-79 42	-79 4	0 4 6.0	-79	41.8	7.4	✓	0	5.3	-79 34	54
0 4	-79 16	-79 3	0 3 56.0	-79	17.1	9.0	✓				
0 2	-79 18	-79 1	0 1 53.0	-79	17.7	6.5	✓				
23 48	-79 15	-79 12	43 23 47 55.0	-79	12.0	7.9	✓				
2 42	-79 17	-79 71	2 41 6.9	-79	16.1	8.0	✓				
2 35	-79 36	-79 68	2 35 49.0	-79	34.7	8.1	✓				
2 35	-79 38	-79 66	2 34 21.8	-79	39.3	6.4	✓	2	33.8	-79 33	50
1 45	-80 22	-80 32	1 44 48	-80	21.8	8.2	✓	1	44.6	-80 14	54
1 43	-80 32	-80 30	1 42 43	-80	32.4	7.7	✓	1	42.6	-80 24	54
1 42	-80 41	-80 29	1 42 17	-80	40.9	7.3	✓	1	42.1	-80 33	54
1 33	-80 36	-80 28	1 33 11.	-80	34.0	6.9	✓	1	33.2	-80 26	54

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Plate 19949

V.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photom. Mag.	Diff.	
√	15.5	14.1	G		K	10	1	3.60		1
√	15.7	14.9	H		E	N	1	3.92 3 F		1
√	15.8	15.3	Q & F	4911	G	10	2	3.21		1
√	15.7 14.9	20.1	K		K	12	3	1.74 2.50	6.66	0
	15.0	21.4	K		K	10	2	3.11 3.70	7.82	4.71 23
√	15.7	21.9	H		E	N	1	3.70 4.15		2
√	15.2	22.1	Q		G	N	2	3.70	8.78	2
√	16.7	7.9	H		K	10	2	3.58 4.05	7.74	4.16 2
√	16.8	11.6	H		E	N	1	4.35 F		1
√	16.7	12.1	Q		E	N	1	3.80		1
√	16.2	12.2	F	4912	~~V~~	10	4	0.25	6.06	5.81 1
√	16.4	16.8	Q		E	N	2	3.65		0
√	17.0	17.9	G		K	10	2	3.18 3.32	7.95	4.77 0
√	16.5	20.3	G2K		K	10	3	2.64 3.12	7.21	4.57 0
√	17.0	20.8	Q & F	4913	N	10	2	3.06	7.85	4.79 23
√	16.5	22.3	G		K	10	2	3.55	7.91	4.36 23
Johnson's comet	√ 17.1	6.6	H		E	N	1	4.03 F	7.96	3.93 3
√	17.5	10.1	Q		E	N	1	4.13		2
√	17.2	11.3	H		E	N	1	4.30 F		2
√	18.0	12.0	H		E	N	1	4.30 F	8.42	4.12 1
√	16.0	14.0	H		E	N	1	4.25 F		1
√	17.4	14.2	H		E	N	1	4.30 F		1
√	17.7	14.4	G		E	N	1	4.27		1
√	18.0	14.9	Q		G	N	2	4.00		1
√	17.0	16.7	F	4914	K	10	1	4.00		0
√	18.0	17.9	F	4915	K	10	1	4.11		0
√	17.3	21.7	H		E	N	1	3.90 F	8.38	2
√	18.9	12.0	F	4916	a	10	3	2.90	7.02	4.12 2
√	16.6	12.5	K		K	10	2	3.23 3.90	7.62	1

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1875 Appar.	C.P.D. Design.	1875 R.A.	1875 Dec.	Magn.	R.A. 1900	Dec 1900				
1 24 -80 32	-80°	24	1 24 37	-80°	32.7	8.8				
1 15 -80 43	-80	20	1 15 22	-80	42.9	9.0	✓			
1 10 -80 47	-80	17	1 10 20	-80	46.6	8.2	✓			
0 11 -80 33	-80	7	✓0 10 25	-80	32.6	6.7	✓	.0	11.5 -80 25	54
23 58 -79 59	-79	1249	✓23 59 60	-79	57.0	8.0	✓	0	0.4 -79 49	54
23 53 -79 45	-79	1245	23 53 45	0-79	45.2	8.4	✓			
23 51 -79 57	-79	1244	✓23 50 55	0-79	57.7	7.7	✓	23	52.3 -79 50	54
2 39 -80 20	-80	54	2 40 37	-80	20.9	8.0	✓	2	39.8 -80 15	54
1 57 -80 59	-80	40	1 56 58	-80	58.4	9.2	✓			
1 52 -80 59	-80	37	1 51 23	-80	59.4	8.4	✓			
1 49 -80 48	-80	35	1 48 59	-80	47.7	6.3	✓	1	48.7 -80 41	50
0 50 -81 3	-81	12	0 49 12	-81	2.1	8.3	✓			
0 36 -81 19	-81	9	✓0 36 13	-81	20.6	7.8	✓	0	36.9 -81 13	54
0 5 -80 53	-80	3	✓0 5 53	-80	52.2	7.4	✓	0	7.0 -80 44	54
23 56 -81 6	-81	1050	✓23 57 38	-81	5.4	7.3	✓	23	58.9 -80 57	54
23 45 -80 36	-80	1078	23 43 40	-80	35.7	7.8	✓	23	45.2 -80 28	54
3 0 -80 6	-80	70	3 0 37	-80	5.4	8.2	✓	2	59.7 -79 59	54 Correct for 6.2 ?
2 18 -81 6	-81	44	2 18 41	-81	6.7	8.4	✓			
2 3 -81 8	-81	39	2 3 13	-81	7.7	8.7	✓			
1 53 -81 37	-81	37	1 54 9	-81	38.1	8.9	✓	2	1.8 -82 47	54
1 29 -81 52	-81	28	1 30 7	-81	51.0	8.9	✓			
1 25 -81 32	-81	26	1 25 32	-81	31.1	9.2	✓			
1 20 -81 40	-81	25	1 20 29	-81	40.2	9.0	✓			
1 16 -81 52	-81	22	1 17 5	-81	53.1	8.6	✓			
0 50 -81 20	-81	14	0 51 45	-81	20.5	8.9	✓			
0 33 -81 52	-81	8	0 34 31	-81	51.9	8.7	✓			
23 46 -81 0	-81	1044	23 46 24	-81	2.1	8.4	✓	23	47.9 -80 54	54
2 0 -82 7	-82	34	1 59 41	-82	6.3	7.0	✓	1	59.0 -81 59	54
1 52 -81 59	-81	36	1 51 59	-81	58.5	8.3	✓	1	51.4 -81 51	54

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V.	H	Cl.	Rem.	L.	K	Int. Br.	Photom. Magn.	Diff.	
√ 18.6	17.6	A		E	n	1	4.32		
√ 18.6	14.9	K		K	10	2	3.49 / 3.90	8.09	4.60
√ 18.8	15.7	K		K	10	2	3.20 / 4.00	7.79	4.59
√ 18.9	20.3	K		E	n	1	4.30		
√ 18.7	23.0	K		K	10	3	2.25 / 3.50	7.39	5.14
√ 18.6	24.4	A		E	n	2	3.40	8.25	4.85
√ 19.3	8.8	A		E	n	1	4.08 / ~~3.50~~		
√ 19.9	7.2	F	4917	K	10	2	3.50	7.65	4.15
√ 19.8	16.6	H		E	n	1	4.28 / F		
√ 19.8	18.0	A		E	n	1	4.43		
√ 19.2	18.2	H		E	n	1	4.30 / F		
√ 19.3	24.2	K		E	n	1	4.25 / F		
√ 19.6	24.4	K		K	10	3	2.18 / 3.20	6.48	4.30
√ 20.6	10.2	A		E	n	1	4.01		
√ 20.6	11.8	A		O	n	2	3.71	7.89	4.18
√ 21.0	12.2	F	4918	K	10	2	3.16	7.89	4.73
√ 20.5	12.2	H		E	n	1	3.78 / 4.13	8.42	4.64
√ 20.2	13.6	K		K	10	3	2.70 / 3.91	7.19	4.49
√ 20.7	15.4	G		K	10	1	4.12		
√ 20.4	19.5	K			12	4	0.30 / 1.20	5.30	5.00
√ 20.5	20.3	K		K	15	3	0.94 / 2.00	5.68	4.74
√ 20.3	20.8	K			12	4	0.20 / 0.85	5.10	4.90
√ 20.5	21.3	H		E	n	1	4.20 / F		
√ 21.1	9.8	G		K	10	2	2.90 / 3.30	7.49	4.59
√ 21.4	10.7	A		E	n	1	4.05		
√ 21.3	11.2	A		E	n	2	3.65		
√ 22.1	11.3	H		K	10	2	3.49 / 4.12	7.85	
√ 21.5	12.1	H		E	n	1	4.25 / F		
√ 21.1	13.1	F	4919	K	10	2	3.70	8.25	4.55

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1875	C.O.D.		1875	1875								
Obs'prof	Design.	R.A.	Dec.	Mag.	R.A. 1900	Dec. 1900						
		h m s	° ′									
	-82	27 1	36 29	-82	3.5	7.8	~~Where is this star?~~					?
1 16	-82	12 -82	22 1	16 42	-82	12.0	8.2 ✓	i	16.7	-82	4	54
1 6	-82	19 -82	16 1	6 1	-82	19.0	8.4 ✓	i	6.1	-82	11	54
23 58	-82	0 -82	908 23	58 20	-82	2.5	8.7 ✓					
23 23	-81	30 -81	1036 23	23 0	-81	30.9	8.2 ✓	23	24.9	-81	23	54
23 10	-81	6 -81	1029 23	7 59	-81	6.4	7.6 ✓	23	10.0	-80	58	54
			~~21 1024 superimposed~~									028 might be superposed
2 42	-81	42 -81	56 2	42 49	-81	41.1	8.3 ✓					
3 7	-81	36 -81	67 3	6 52	-81	34.5	7.6 ✓	3	5.4	-81	29	54
1 8	-82	45 -82	18 1	7 43	-82	44.4	9.0 ✓					
0 30	-82	42 -82	11 0	30 38	-82	42.4	8.6 ✓					
0 28	-82	19 -82	10 0	28 43	-82	20.8	9.2 ✓					
23 5	-81	27 -81	1026 23	5 45	-81	26.4	9.0 ✓					
23 2	-81	36 -81	1024 23	1 39	-81	35.4	7.7 ✓	23	3.8	-81	27	50
2 33	-82	36 -82	43 2	33 26	-82	34.3	8.2 ✓					
2 8	-82	54 -82	39 2	9 38	-82	53.5	7.6 ✓	2	8.5	-82	47	54
2 4	-83	7 -83	35 2	5 30	-83	6.4	7.5 ✓	2	4.4	-82	59	54
2 3	-82	54 -82	37 2	2 47	-82	53.8	8.5 ✓	2	1.8	-82	47	54
1 38	-82	54 -82	28 1	39 55	-82	54.8	7.8 ✓	1	39.3	-82	47	Remarks in 54
1 10	-83	12 -83	24 1	11 24	-83	12.4	8.5 ✓					
0 4	-82	54 -82	4 0	4 19	-82	55.2	6.3 ✓	0	5.5	-82	47	50
23 51	-82	52 -82	907 23	50 38	-82	52.0	6.7 ✓	23	52.1	-82	44	50
23 45	-82	43 -82	905 23	44 41	-82	42.8	6.1 ✓	23	46.2	-82	34	50
23 37	-82	37 -82	900 23	36 43	-82	37.2	8.7 ✓					
2 40	-82	47 -82	46 2	42.5	-82	46.1	7.5 ✓	2	40.6	-82	40	54
2 29	-83	3 -83	45 2	29 24	-83	2.1	8.2 ✓					
2 22	-83	6 -83	42 2	21 58	-83	5.1	8.5 ✓					
		-83	43 2	22 41	-83	7.5	8.5					
2 25	-83	32 -83	44 2	26 21	-83	31.2	8.2 ✓	2	24.8	-83	24	54
2 9	-83	19 -83	37 2	9 5	-83	19.9	8.7 ✓					
1 50	-83	18 -83	32 1	50 43	-83	17.6	7.9 ✓	1	49.8	-83	11	54

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1 Plate 19949

	V.	H.	Cl.	Rem.	L.	K	Ext.	Bx.	Photom. Magn.	Diff.
√	21.7	13.8	G-K			10	4	{0.80 1.40}	5.88	5.08
√	22.5	13.6	G-K		K	10	3	{2.43 2.86}		
√	21.4	16.6	A		E	N	1	3.90		
√	22.0	15.9	K		E	N	1	{3.53 4.10}	8.19	
√	22.7	15.8	K		K	10	2	{2.89 3.56}	7.40	4.51
√	23.0	16.6	F	4920	K	10	2	3.30	7.96	4.66
√	21.7	17.3	A		η	N	2	3.27	9.26	5.99
√	23.8	17.1	F	4921	K	10	1	3.69		
√	22.0	18.0	F	4922	K	10	2	3.25	8.06	4.81
√	23.3	18.1	A		E	N	1	3.96		
	22.2	18.9	K		E	N	1	{4.00 4.40}	8.12	4.12
√	22.2	20.1	K		K	10	3	{2.75 3.87}	6.75	4.00
√	21.6	21.0	G		K	10	2	2.70	7.65	4.95
√	21.9	21.6	A		E	N	1	3.82		
√	24.0	19.9	K		K	10	2	{3.47 4.04}	7.86	4.39
√	23.1	23.2	K		K	10	2	{3.47 4.10}	7.78	

Zu Chr. nat 1903

10.00 P.M. 9.20.

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1875 B.P.D.

	Design	R.A.	Dec.	Mag.		R.A. 1900	Dec. 1900	Vol
1 42 -83 36	-83 27	1 41 19	-83	36.6	(6.3)	i	40.5 -83 29	50
	-83 28	1 42 24	-83	52.5	8.2	duplicate		
1 47 -84 0	-84 30	1 47 43	-84	59.4	7.7			
1 7 -83 33	-83 22	1 7 40	-83	34.2	8.2			
13 -83 54	-83 21	1 3 34	-83	55.5	8.3	i	3.4 -83 47	54
15 -84 16	-84 20	1 6 8	-84	15.5	8.2	i	5.9 -84 8	54
0 50 -84 26	-84 16	0 49 23	-84	25.4	7.7	0	49.4 -84 17	54
0 36 -83 44	-83 10	0 36 49	-83	43.2	7.8	0	37.3 -83 35	54
0 37 -84 48	-84 10	0 36 53	-84	46.4	8.1			
0 22 -83 50	-83 6	0 23 4	-83	49.9	7.8	0	23.8 -83 42	54
0 18 -84 27	-84 6	0 17 32	-84	26.2	8.3			
23 49 -83 41	-83 760	23 49 38	-83	40.7	8.5	23	51.1 -83 33	54 Correct for 19.9
23 46 -83 42	-83 758	23 46 13	-83	42.2	8.0	23	47.8 -83 34	54
23 36 -83 12	-83 756	23 35 43	-83	11.9	7.8	23	37.5 -83 4	54
23 25 -83 12	-83 751	23 23 56	-83	12.7	8.3			
23 39 -84 34	-84 658	23 39 12	-84	33.4	8.1	23	41.0 -84 25	54
22 50 -83 23	-84 743	22 48 47	-84	22.5	8.1	22	52.4 -83 14	54

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Plate B. 20126 Aug. 3. 9.00 P.M.

9.20 P.M.	Q	H.	El	Rem.	L.	K.	Int.	Ba.	Photom. Magn.	Diff.	
✓	5.1	9.8	F	4923	η	10	2	3.76	7.44	3.68	3
✓	5.1	14.2	A-F	4924	ε	10	3	3.31	7.12	3.81	3
✓	4.7	~~10.3~~ 10.4	A		η	2	2	3.65	7.74		3
✓	4.7	13.4	A		ε	η	1	4.21	8.08	3.87	3
✓	4.7	14.7	K		K	10	1	{4.32 F	7.68	3.36	3
✓	4.8	21.0	F	4925	K	10	1	4.20	7.97	3.77	2
✓	4.7	22.2	A		ε	η	1	4.35			2
✓	6.2 8.	9.1	A		ε	η	1	4.38			3
✓	5.7	12.0	F	4926	K	10	1	4.44			3
✓	5.4	17.4	K		K	10	3	{1.50 2.70	4.70	3.20	2
✓	5.3	22.7	K		K	10	2	{3.70 4.23	7.28	3.58	2
Negative not to be 2/07	5.4	23.0	F		ε	η	2	{3.82 4.34	7.04	3.22	2
✓	6.9	11.4	K		ε	η	1	{4.26 F			3
✓	6.8	24.0	H		ε	η	1	{4.32 F			3
✓	6.8	14.7	F	4927	η	10	2	3.95			3
✓	6.6	15.3	F	4928	K	10	1	4.19			3
✓	6.9	16.8	A		ε	η	1	4.17			2
✓	6.8	17.0	F	4929	K	10	1	4.26			3
	6.9	16.8	F								
✓	7.9	7.0	K		ε	η	1	{4.24 F			4
✓	7.4	10.0	K		ε	10	1	{4.13 4.30			3
✓	7.5	10.0	K		ε	η	1	{4.38 F			3
✓	7.9	10.3	A-F	4930	η	10	2	3.70			2
✓	7.6	17.7	K		K	10	2	{3.73 4.10			2
✓	7.3	19.4	F-G	4931	L	10	2	3.13	6.96	3.83	2
✓	7.2	19.8	F	4932	K	10	2	3.81			2
✓	7.1	20.1	K		K	10	2	{3.49 4.10			2
✓	7.4	21.1	F	4933	K	10	1	4.26			2
✓	6.9	21.3	A		ε	η	1	4.34			2

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Approx C.P.D. 1875 1875

1875	Deign.	R.A.	Dec.	Mag.	R.A. 1900	Dec. 1900			
3 51	-75° 5	-75 251	3	50 27.0	-75°	4.4	7.4	3 49.9	-75 0 54
3 40	-75 14	-75 244	3	39.4	9.0 -75	13.5	7.4	3 39.4	-75 8 54
3 30	-75 1	-75 236	3	31 52.0	-75	1.1	7.7	3 31.5	-74 56 54
3 22	-75 2	-75 231	3	22 53.8	-75	2.2	7.6	3 22.6	-74 57 54
3 12	-75 9	-75 225	3	12 43.0	-75	8.0	8.2	3 12.4	-75 2 54
2 24	-75 0	-75 172	2	23 44.5	-75	0.1	8.0	2 23.8	-74 53 54
2 11	-74 41	-74 180	2	10 52.0	-74	40.3	8.0		
3 58	-75 32	-75 254	3	57 54.0	-75	31.2	8.5		
3 35	-75 33	-75 238	3	35 7.5	-75	33.0	8.7		
2 51	-75 36	-75 204	2	51 18.0	-75	34.5	6.5	2 51.1	-75 29 50
2 10	-75 5	-75 156	2	10 24.3	-75	5.2	7.8	2 10.6	-74 58 54
2 0	-75 3	-75 144	2	0 37.0	-75	2.8	8.1	2 0.8	-74 56 54 Correct if 24.0 was intended
3 40	-76 10	-76 242	3	41 19.0	-76	9.8	8.6		
3 20	-76 15	-76 232	3	19 50.0	-76	15.0	8.5		
3 13	-76 17	-76 230	3	13 13.0	-76	16.6	7.8		
3 7	-76 11	-76 227	3	7 3.0	-76	10.4	8.0		
2 56	-76 20	-76 222	2	55 42.0	-76	20.0	8.6		
2 55	-75 57	-75 207	2	54 42.0	-75	56.3	8.1		
4 18	-76 7	-76 265	4	18 7.0	-76	6.8	8.3		
3 53	-76 7	-76 251	3	53 25.0	-76	15.8	8.5		
3 3	-76 40	-76 224	3	2 58.0	-76	39.4	9.1		
2 59	-76 56	-76 223	2	59 33.0	-76	49.5	8.0		
2 48	-76 43	-76 217	2	47 48.0	-76	42.9	8.0		
2 34	-76 27	-76 211	2	33 50.0	-76	26.4	6.8	2 33.6	-76 20 54
2 30	-76 21	-76 206	2	30 29.7	-76	20.1	7.8		
2 27	-76 18	-76 201	2	27 48.0	-76	17.8	8.2		
2 19	-76 20	-76 186	2	19 18.5	-76	19.1	8.4		
2 18	-76 2	-76 184	2	18 41.8	-76	1.4	8.7		

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Plate B 20126

V.	H.	bl.	Rem. 2.	K.	Rem. Ba	Photom. Magn.	Diff.
✓6.9	21.9	H	E	N	1	4.33	
✓8.0	22.0	K	K	10	2	~~3.68~~ 3.35 / 3.80	6.87	3.52
✓7.4	24.1	K	K	10	2	3.68 / 4.10		
8.7	12.4	F	4934 K	10	2	3.98		
8.4	10.5	F	4935 K	10	1	4.12		
✓8.9	10.7	A	K	N	2	3.72		
✓9.0	12.2	F	4936 K	10	1	4.18		
✓8.7	13.2	A	K	3	3	2.83	6.89	4.06
✓8.6	21.4	G5	K	10	3	2.79 / 3.07	6.54	3.75
✓8.6	21.5	F	4937 K	10	2	3.50		
✓8.8	24.2	F	4938 K	10	1	4.10		
✓9.4	11.9	H	E	N	1	4.28 / F		
✓9.8	14.2	F2	4939 V	10	4	1.10	5.53	4.43
✓9.4	15.5	F	4940 K	10	1	3.78		
✓9.3	20.0	F	4941 K	10	2	4.03		
✓9.2	21.7	A5	F 4942 L	10	3	2.10	6.66	4.56
✓10.1	8.3	F	4943 K	10	1	4.22		
✓10.1	10.6	H	E	N	1	4.32 / F		
✓10.3	13.0	K	K	10	3	3.50 / 4.02		
✓10.9	14.6	F	4944 K	10	2	3.79		
✓10.8	16.0	F	4945 K	10	1	4.08		
✓10.5	16.4	H	E	N	1	4.12 / H		
✓10.9	16.7	K	K	10	2	3.95 / 4.34	7.56	
✓10.3	17.4	A	E	N	1	4.11		
✓10.9	17.8	A	E	N	1	4.00		
✓10.7	18.8	F	4946 K	10	1	3.96		
✓10.4	19.5	H	E	N	1	4.06 / 4.40		
✓11.0	20.1	F	4947 K	10	1	4.~~30~~		
9.50. PM. 10.2	20.5	A	E	N	1	4.32		

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1875 Approx

				C.P.D. Design.			RA 1875		Dec. 1875		Mag.	RA. 1900	Dec. 1900		
2	14	-75	58	-75°	161	2	13	57.3	-75	57.6	8.7	✓			
2	10	-76	33	-76	170	2	10	37.6	-76	32.8	7.8	✓	2	10.6	-76 26 54
1	56	-75	59	-75	140	1	55	46.8	-75	58.7	8.4	✓			
	?			-76°	259	4	0	57.0	-76	51.7	7.9				
3	51	-76	50	-76	247	3	50	43.0	-76	48.1	8.7	✓			
				-76	248	3	51	3.0	-76	50.9	8.8				
3	50	-77	6	-77	150	3	50	12.0	-77	5.8	7.7	✓			
3	37	-77	18	-77	141	3	37	33.6	-77	17.3	8.6	✓			
3	28	-77	12	-77	135	3	27	38.5	-77	10.7	6.9	✓	3	27.1	-77 6 54
2	15	-76	56	-76	181	2	14	22.3	-76	56.1	7.4	✓	2	14.4	-76 49 54
2	11	-76	54	-76	173	2	11	6.1	-76	53.1	8.0	✓			
1	51	-76	36	-76	147	1	50	39.1	-76	36.5	8.3	✓			
3	40	-77	30	-77	143	3	40	29.5	-77	29.5	8.8	✓			
3	19	-77	51	-77	134	3	19	7.5	-77	50.6	5.8	✓	3	18.4	-77 45 50
3	6	-77	39	-77	131	3	7	11.0	-77	38.6	7.8	✓			
2	25	-77	22	-77	109	2	25	35.6	-77	22.1	8.4	✓			
2	10	-77	11	-77	95	2	10	23.2	-77	12.7	7.1	✓	2	10.4	-77 6 54
1	15	-77	22	-77	161	4	13	44.0	-77	22.1	8.5	✓			
3	54	-77	43	-77	153	3	52	53.0	-77	42.7	9.0	✓			
3	32	-78	3	-78	99	3	31	47.8	-78	2.4	7.8	✓			
3	15	-78	22	-78	91	3	16	2.5	-78	22.6	8.0	✓			
3	1	-78	20	-78	84	3	1	59.4	-78	19.8	8.4	✓			
2	58	-78	9	-78	82	2	58	6.9	-78	9.3	8.6	✓			
2	55	-78	22	-78	77	2	55	48.4	-78	22.0	8.3	✓	2	55.2	-78 16 54
2	48	-78	1	-78	71	2	48	51.5	-78	2.4	8.1	✓			
2	44	-78	20	-78	63	2	44	17.5	-78	20.0	8.2	✓			
2	34	-78	10	-78	59	2	34	29.0	-78	10.5	8.6	✓			
				-78	60	2	34	42.5	-78	10.5	8.4				
2	29	-77	58	-77	111	2	29	8.0	-77	58.5	8.7	✓			
2	22	-78	12	-78	49	2	22	31.1	-78	12.8	8.7	✓			
2	19	-77	45	-77	105	2	19	28.0	-77	46.6	8.7	✓			

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	G. M. T.		Cl	Rem.	L.	K	Int.	Br.	Photom. Magn.	Diff.
8.15 P.M.	11.0	23.0	H		K	10	2	{4.06 F		
	10.4	24.1	F	4948	K	10	1	3.96		
	11.7	6.9	F	4949	K	10	2	3.47		
	11.5	9.2	F	4950	K	10	1	4.22		
	11.9	11.6	H		E	N	1	{4.29 F		
	11.8	12.1	K		K	12	2	{2.85 3.20	6.08	3.23
	11.8	12.8	K			12	3	{1.80 2.27	5.64	3.84
	11.4	16.4	G		K	10	1	4.30		
	11.1	19.6	F	4951	K	10	1	4.25		
	11.5	22.7	H		E	N	1	{4.21 F		
	11.4	22.9	A		L	4	3	2.54		
	11.5	23.9	F	4952	[illegible]	10	2	3.16	~~5.88~~	
	12.1	5.5	G5K		K	10	3	{2.50 3.11	5.88	3.38
	12.2	7.7	H		E	N	1	{4.11 F		
Sent thus 9.67	13.0	8.4	K		K	12	3	{2.71 3.30	6.70	3.99
	12.7	9.7	G		K	10	1	3.91		
	12.8	11.7	A		E	N	1	4.02		
	12.7	14.4	A5F	4953	η	10	2	3.26		
	13.0	15.0	F	4954	μ	10	3	1.00	5.70	4.70
	12.7	15.5	F	4955	K	10	1	4.09		
	12.5	16.7	H		E	N	1	{4.10 F		
	12.7	17.8	A		η	N	2	3.80		
	12.2	18.7	F	4956	K	10	1	4.00		
	12.9	22.2	F5G	4957	L	10	3	1.95	6.22	4.27
	13.3	6.6	A		E	N	1	4.10		
	13.7	6.9	A		ξ	N	2	3.35		
	13.6	7.8	F	4958	K	10	1	4.06		
	13.8	9.1	A		ξ	N	2	3.64		
	14.0	10.1	F	4959	K	10	1	3.97		

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1875 Approx	G.P.D. Approx	1875 RA	1875 Dec.	Magn.		R.A. 1900	Dec. 1900		
1 53	-77 50	-77 75	1 54 3.0	-77 51.4	8.6	✓			
1 46	-77 24	-77 68	1 46 45.0	-77 24.0	8.6	✓			
4 32	-77 58	-77 172	4 30 24.0	-77 57.5	7.5	✓			
4 8	-78 15	-78 126	4 8 51.0	-78 14.9	8.8	✓			
3 46	-78 42	-78 112	3 46 31.0	-78 41.3	9.0	✓			
3 41	-78 44	-78 105	3 41 18.0	-78 43.5	7.7	✓	3	40.3 -78 39	50
3 34	-78 46	-78 101	3 34 34.0	-78 46.1	6.2	✓	3	33.6 -78 41	50
2 57	-78 35	-78 81	2 57 42.2	-78 34.8	8.2	✓			
2 26	-78 18	-78 51	2 26 14.1	-78 18.7	8.7	✓			
1 56	-78 12	-78 41	1 55 46.0	-78 11.3	8.8	✓			
1 55	-78 6	-78 40	1 53 50.0	-78 6.4	6.9	✓			
1 44	-78 58	-78 [7]41	1 44 37.5	-78 [7]58.9	7.1	✓			
4 44	-77 54	-77 181	4 44 35	-77 53.4	7.0	✓	4	42.9 -77 50	50
4 25	-78 26	-78 135	4 24 49.0	-78 19.8	8.9	✓			
4 8	-78 59	-78 125	4 8 24.0	-78 58.0	7.7	✓	4	7.2 -78 54	54 Correct if 9.6 was intended
4 7	-78 53	-78 123	4 7 16.0	-78 53.1	8.5	✓			
3 47	-79 10	-79 113	3 47 21.0	-79 9.4	8.9	✓			
3 18	-79 16	-79 98	3 18 15.3	-79 16.9	7.1	✓			
3 12	-79 28	-79 91	3 11 50.5	-79 27.8	5.6	✓	3	10.9 -79 22	50
3 5	-79 15	-79 87	3 5 49.9	-79 15.4	8.4	✓			
2 54	-79 13	-79 78	2 53 50.4	-79 11.7	8.6	✓			
2 41	-79 16	-79 71	2 41 6.9	-79 16.1	8.0	✓			
2 33	-78 54	-78 57	2 33 22.5	-78 54.9	8.1	✓			
1 56	-78 58	-78 42	1 56 5.5	-78 57.6	6.4	✓	1	56.0 -78 51	50
4 40	-78 37	-78 147	4 39 26.0	-78 37.2	8.1	✓			
4 38	-78 54	-78 145	4 37 58.0	-78 53.2	7.3	✓			
4 29	-79 10	-78 137	4 29 21.0	-78 59.6	8.5	✓			
4 17	-79 20	-79 134	4 16 29.0	-79 19.9	8.0	✓			
4 7	-79 33	-79 129	4 7 19.0	-79 32.7	8.4	✓			

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	V.	H.	Cl.	Rem.	L.	K.	Int. Br.	Photom. Magn.	Diff.
✓	13.3	12.3	H		K	12	3	{3.92 3.49}	6.79	3.87
✓	13.8	14.6	H		E	R	1	{4.30 F}	8.84	
✓	13.3	18.3	G o K		K	10	2	{3.75 4.12}		
✓	13.5	18.4	G o K			12	4	{1.05 1.80}	5.29	4.24
✓	13.8	15.6	A		E	R	1	4.20		
✓	14.0	19.8	K		K	10	2	{3.59 4.10}	7.94	
✓	13.7	19.9	F	4960	K	10	1	3.89		
✓	13.0	20.0	H		E	R	1	{4.05 F}		
✓	13.8	20.7	F	4961	K	10	1	4.10		
✓	13.3	21.2	F o G	4962	K	10	2	3.32		
✓	13.8	21.4	F o G	4963		10	2	2.47	6.85	4.38
✓	13.6	21.7	F	4964	R	10	2	3.02		
✓	14.0	21.9	F	4965	K	10	1	3.96		
✓	13.5	22.5	H		E	R	1	{4.25 F}		
✓	13.5	22.5	A		R	R	3	3.64		
✓	13.3	23.5	H		E	R	1	{4.30 F}		
✓	13.4	24.7	H		K	10	2	{3.18 3.61}		
✓	14.9	8.6	A		E	R	3	2.35	7.02	4.67
✓	14.2	10.6	A		E	R	1	3.98		
✓	13.0	11.0	F	4966	K	10	1	4.26	9.00	
✓	14.4	12 N.0	A		E	R	1	4.28		
✓	14.2	12 1.1	A		E	R	1	4.10	8.40	
✓	14.3	15.0	G		K	10	2	3.76	7.96	4.20
✓	14.5	17.2	A		E	R	1	4.14		
✓	14.2	17.8	H		E	R	1	{4.23 F}	9.06	
✓	14.5	17.7	K		K	10	2	{3.42 3.91}	7.74	4.32
✓	14.5	18.0	G		K	10	2	3.90	8.56	4.66
✓	14.6	21.5	H		E	R	1	{4.22 F}		
✓	14.9	23.0	G o K		K	12	3	{2.21 2.80}	6.24	4.03

Do Quartz?

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1875 Approp	C.P.D. Design.		1875 R.A.	1875 Dec.	Magn.			R.A. 1900	Dec. 1900	
3 42	-79° 30	-79 109	3 42	40	-79° 30.0	7.7	✓	3 40.9	-79 25	54
3 17	-79 51	-79 96	3 17	17.6	-79 51.0	9.2	✓	3 16.5	-79 46	54
2 36	-79 45	-79 68	2 35	49.0	-79 34.7	8.1	✓			
2 34	-79 39	-79 66	2 34	21.8	-79 39.3	6.4	✓	2 33.8	-79 33	50
2 32	-79 45	-79 64	2 31	42.4	-79 44.6	8.6	✓			
2 18	-79 46	-79 58	2 17	54.6	-79 46.0	8.4	✓	2 17.4	-79 39	54
2 18	-79 37	-79 57	2 17	36.1	-79 36.1	8.3	✓			
2 18	-79 14	-79 59	2 18	06	-79 13.5	9.1	✓			
2 9	-79 35	-79 53	2 9	2.1	-79 34.6	9.0	✓			
2 5	-79 18	-79 52	2 4	39.1	-79 17.8	8.2	✓			
2 3	-79 29	-79 51	2 1	49.6	-79 28.2	7.8	✓	2 1.6	-79 21	54
1 59	-79 22	-79 50	1 58	29.0	-79 22.2	7.7	✓			
1 56	-79 28	-79 48	1 55	57.0	-79 27.6	9.0	✓			
1 51	-79 9	-79 46	1 51	19.0	-79 8.7	9.0	✓			
1 49	-79 6	-79 45	1 48	54.0	-79 6.2	8.2	✓			
1 43	-78 55	-78 38	1 42	1.0	-78 52.3	8.8	✓			
1 30	-78 43	-78 36	1 30	41.0	-78 42.6	8.5	✓			
4 25	-79 50	-79 141	4 26	38.0	-79 48.5	6.8	✓	4 25.0	-79 45	54
3 59	-79 44	-79 121	3 59	10.0	-79 42.0	8.7	✓			
4 0	-80 10	-80 102	4 0	28	-80 10.1	8.9	✓	3 59.0	-80 6	54
3 48	-79 58	-79 114	3 47	31.0	-79 57.7	8.7	✓			
3 45	-79 52	-79 112	3 45	52.0	-79 52.1	8.6	✓	3 44.6	-79 47	54
2 59	-80 6	-80 70	3 0	37	-80 5.4	8.2	✓	2 59.7	-79 59	54 Correct if 16.0 intended
2 46	-80 18	-80 58	2 46	33	-80 18.7	8.9	✓			
		-80 57	2 46	25	-80 20.0	9.1				
2 40	-80 0	-80 55	2 40	53	-80 0.9	8.8	✓	2 40.2	-79 55	54
2 40	-80 20	-80 54	2 40	37	-80 20.9	8.0	✓	2 39.8	-80 15	54
2 38	-80 10	-80 51	2 38	1	-80 9.1	8.3	✓	2 37.3	-80 3	54
1 55	-79 49	-79 47	1 55	18.0	-79 49.3	9.4	✓			
1 42	-79 47	-79 44	1 41	18.0	-79 46.8	7.0	✓	1 41.3	-79 39	50

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Plate B 20 126

V.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photom. Magn.	Diff.	
√ 15.0	24.0	H		E	n	1	{4.28 F			1
√ 14.2	24.0	F	4967	K	10	1	4.20			1
√ 14.0	24.2	G5 K			12	3	{1.80 2.20	6.06	4.26	1
√ 15.5	7.0	H		E	n	1	{4.08 F	8.04		4
√ 15.6	11.7	H		E	n	1	{4.25 F			3
√ 15.2	12.0	G		K	10	2	3.70	7.87		3
√ 15.5	13.2	H		E	n	1	{4.23 F			3
√ 15.9	13.6	A		E	n	2	4.02			3
√ 15.7	16.1	F	4968	K	10	1	4.18			3
√ 15.2	17.2	H		E	n	1	{4.20 F			3
√ 15.7	21.9	H		E	n	1	{4.35 F			1
√ 15.8	22.3	G		K	10	2	3.60	8.48		1
Bright Star not in K 6.4										
√ 16.4	5.4	F	4969	K	10	1	3.56	7.92		4
√ 16.7	8.0	H		E	n	1	{4.25 F			4
√ 16.2	8.9	F	4970	K	10	1	4.12			4
√ 16.2	9.1	K			12	3	{1.96 1.85	5.62	4.26	4
√ 17.0	10.2	F	4971	K	10	2	3.50	7.95	4.45	4
√ 16.8	10.9	F	4972	K	10	1	4.13			4
√ 16.5	11.3	F	4973	K	10	1	4.10			4
√ 16.2	12.0	F	4974	K	10	1	4.17			3
√ 16.8	12.6	G5 K		K	10	2	{3.70 3.90	7.84		3
√ 16.4	13.3	K		K	10	3	{3.60 4.10	7.76		3
√ 16.3	13.5	H		E	n	1	{4.09 F			3
√ 16.8	14.4	A		O	n	2	3.86	8.37		3
√ 16.6	14.2	A		E	n	1	3.87			2
√ 16.7	19.3	F	4975	K	10	1	4.03			2
√ 16.8	20.4	A		E	n	1	4.03			2
√ 16.8	20.9	F	4976	K	10	1	4.02			1
9.20 P.M. √ 16.9	21.4	A		E	n	1	3.87	10.10 P.M.		1

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1875- E.P.D. 1875 1875

Approx.	Design.		RA	Dec.	Mag.	R.A. 1900	Dec. 1900					
1 30	-79 36	-79	39	1 30	32.0	-79	36.1	9.2	✓			
1 34	-79 14	-79	42	1 34	16.0	-79	13.7	8.6	✓			
1 33	-79 8	-79	40	1 32	49.0	-79	8.4	7.1	✓	i 33.0	-79 i	50
4 44	-79 42	-79	15	2 4 45	5.0	-79	41.7	8.2	✓	4 43.5	-79 39	54
3 54	-80 32	-80	9	8 3 53	45	-80	30.8	9.0	✓			
3 50	-80 26	-80	9	3 49	30	-80	24.3	8.5	✓	3 48.0	-80 20	54
		-80	9	4 49	32	-80	24.5	9.2				
3 35	-80 36	-80	8	5 3 35	30	-80	35.4	9.2	✓			
3 30	-80 52	-80	8	1 3 30	27	-80	51.3	8.4	✓			
3 0	-80 50	-80	6	9.2 59	52	-80	48.8	8.3	✓			
2 47	-80 32	-80	5	9.2 47	1	-80	32.1	8.6	✓			
1 49	-80 18	-80	3	6.1 49	27	-80	18.6	9.2	✓			
1 45	-80 22	-80	3	2 1 44	48	-80	21.8	8.2	✓	1 44.6	-80 14	54
4 56	-80 0	-80	13	2.4 56	9	-80	0.6	7.5	✓	4 54.4	-79 59	54 Sheet of 6.4 intended
4 40	-80 32	-80	12	4.4 40	52	-80	32.3	8.5	✓			
4 27	-80 24	-80	11	7.4 28	9	-80	24.2	8.5	✓			
4 26	-80 30	-80	11	6 4 26	32	-80	30.3	6.5	✓	4 24.7	-80 27	50
4 15	-81 3	-81	10	4.4 15	48	-81	2.8	8.0	✓	4 13.9	-80 59	54
4 6	-81 0	-81	9	6.4 6	55	-81	0.6	8.9	✓			
4 1	-80 56	-80	10	4.4 1	30	-80	56.0	8.5	✓			
3 51	-80 53	-80	9	7.3 51	28	-80	57.1	8.9	✓			
3 45	-81 15	-81	8	8 3 45	32	-81	15.0	9.0	✓	3 43.8	-81 10	54
		-81	8	9 3 45	45	-81	15.4	9.0				
3 36	-81 9	-81	8	3 3 36	8	-81	7.8	8.1	✓	3 34.5	-81 3	54
3 33	-81 6	-81	8	2 3 33	1	-81	5.8	9.0	✓			
3 22	-81 21	-81	7	8 3 22	20	-81	20.4	8.1	✓	3 20.8	-81 15	54
2 19	-81 6	-81	4	4 2 18	41	-81	6.7	8.4	✓			
2 17	-81 10	-81	4	3 2 17	5	-81	9.7	8.6	✓			
2 23	-81 7	-81	4	5 2 3	13	-81	7.7	8.7	✓			
1 56	-80 59	-80	3	9.1 56	58	-80	58.4	9.2	✓			
1 51	-80 59	-80	3	7 1 51	23	-80	59.4	8.4	✓			

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August 3, 1903.

Plate B 20126

8.30 P.M.	V.	H.	Cl.	Rem.	L.	K	Int.	Br.	Photom. Magn.	Diff.
	16.6	21.7	A	4977	K	n	3	1.78	6.06	4.28
	16.5	22.2	A		O	n	2	2.78	7.71	
	16.3	23.3	A		E	n	2	3.92	7.88	3.96
	16.6	23.0	A		O	n	2	2.15	7.26	
	15.2	24.2	G&K		K	10	2	3.22 3.65	8.09	4.87
	16.2	23.6	H		E	n	1	4.35 F		
	16.9	23.7	G		K	10	1	3.68		
	17.9	7.2	F	4978	K	10	2	3.63	7.91	4.28
	17.6	10.0	H		E	n	1	4.30 F		
	17.3	10.5	H		E	n	1	4.25 F		
	17.7	13.7	H		E	n	1	4.38 F		
	17.6	14.5	A		E	n	1	4.30		
	17.0	14.9	A		E	n	1	4.35		
	17.5	15.3	A		E	n	1	4.30		
	17.1	15.5	F	4979	K	10	2	3.10	7.65	4.55
	17.5	17.2	A		η	n	2	4.20		
	17.3	18.2	A		E	n	1	4.07		
	17.7	21.9	H		E	n	1	4.26 F		
	17.5	24.2	H		E	n	1	3.90 F		
	17.8	24.6	F	4980	K	10	2	3.24		
	16.3	7.1	F	4981	K	10	1	3.78		
	18.7	8.7	H		E	n	1	4.02 F	~~9.64~~	
	18.9	9.6	A&F	4982	K	10	3	1.40	5.79	4.39
	18.3	11.2	A		E	n	1	4.20		
	18.7	12.6	F	4983	K	10	1	3.81		
	18.5	14.1	A		E	n	1	4.33		
	18.8	15.4	A		E	n	1	4.20		
	18.6	15.6	A		E	n	1	4.25		
	18.2	15.9	H		E	n	1	4.35 F		

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1875 — Appar.

	C.P.D. Design		1875 R.A.	1875 Dec.	Mag.			R.A. 1900	Dec. 1900		
1 50	-80 47	-80	35	1 48 59	-80	47.7	6.3	1 48.7	-80 41	50	
1 41	-80 43	-80	29	1 42 17	-80	40.9	7.3	1 42.1	-80 33	54	
1 43	-80 32	-80	30	1 42 43	-80	32.4	7.7	1 42.6	-80 24	54	
1 33	-80 33	-80	28	1 33 11	-80	34.0	6.9	1 33.2	-80 26	54	
1 27	-79 42	-79	37	1 26 58.0	-79	41.2	8.5	1 27.1	-79 33	54	
1 30	-80 15	-80	27	1 29 18	-80	15.7	9.2				
1 25	-80 32	-80	24	1 24 37	-80	32.7	8.8				
4 55	-80 52	-80	131	4 55 22	-80	57.0	7.7	4 53.3	-80 49	remark 54	
4 20	-81 18	-81	108	4 21 3	-81	18.1	9.0				
4 13	-81 14	-81	102	4 13 6	-81	13.0	8.9				
3 33	-81 45	-81	82	3 32 16	-81	44.9	9.0				
3 21	-81 45	-81	77	3 21 34	-81	44.8	8.6				
3 15	-81 27	-81	75	3 15 4	-81	27.8	8.4				
3 10	-81 42	-81	70	3 10 33	-81	42.0	8.4				
3 7	-81 33	-81	67	3 6 52	-81	34.5	7.6	3 5.4	-81 29	54	
2 42	-81 43	-81	56	2 42 49	-81	41.1	8.3				
2 30	-81 30	-81	50	2 30 24	-81	30.1	8.4				
1 42	-81 17	-81	33	1 41 57	-81	16.0	9.0				
1 15	-80 43	-80	20	1 15 22	-80	42.9	9.0				
1 10	-80 47	-80	17	1 10 20	-80	46.6	8.2				
4 58	-80 59	-80	103	4 58 17	-80	58.8	8.1				
4 41	-81 30	-81	122	4 42 2	-81	30.8	8.8	~~4 38.5 -80 4 54~~			
4 31	-81 52	-81	115	4 32 8	-81	51.6	6.3	4 29.8	-81 49	50	
4 8	-81 45	-81	97	4 8 28	-81	45.2	8.7				
3 50	-81 11	-81	72	3 50 46	-81	10.9	8.7				
3 28	-82 14	-82	63	3 28 23	-82	11.4	9.0				
3 9	-82 24	-82	54	3 8 48	-82	23.1	8.6				
3 7	-82 15	-82	53	3 5 51	-82	15.0	9.0				
3 2	-82 5	-82	51	3 1 47	-82	0.4	8.9				

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B

Plate ~~20~~ 20126

	J.	H	Cl.	Rem.	L.	K	Int. Br.	Photom. Mag.	Diff.	
✓	18.1	16.2	a		E	n	1	4.25		
✓	18.2	17.1	H		E	n	1	{4.20 F		
✓	18.2	17.4	F	4984	K.	10	1	4.10		
✓	18.5	18.3	H		E	n	1	{4.12 F		
✓	18.8	20.2	Q&F	4985	O	10	3	2.38	7.02	4.64
✓	18.7	20.7	K		K	10	2	{3.24 3.60	7.52	4.28
✓	18.6	22.8	H		E	n	1	{4.05 F		
Is this not 8/1	19.4	9.1	H		E	n	1	{4.10 4.40		
✓	19.1	9.4	a		E	n	2	3.85		
✓	19.6	13.6	H		E	n	1	{4.10 F		
✓	20.0	14.0	F	4986	K	10	2	3.50	8.00	4.50
Is this not 1935	18.5	14.1	F	4987	K	10	2	3.55	8.07	4.52
✓	19.6	17.8	G		K	10	3	2.90	7.49	4.59
✓	19.1	17.6	H		E	n	1	{4.18 F		
✓	19.3	17.7	a		E	n	1	4.00		
✓	19.1	22.3	H		E	n	1	{4.08 F		
✓	20.4	6.2	K		K	10	2	{2.90 3.33	6.48	
✓	20.2	17.9	a		E	n	1	3.78		
✓	20.4	18.3	a		E	n	1	3.80		
✓	20.2	19.1	a		O	n	2	2.83	7.89	
Read V 20.6	? 19.6	19.3	a		E	n	2	3.02	7.89	
" V 20.3	? 20.6	19.6	G		K	10	1	3.70	8.42	
✓	20.8	20.8	G		K	10	2	2.45	7.19	
✓	20.1	22.8	H		K	10	1	{3.30 3.90	8.09	
✓	20.6	23.4	K		K	10	2	{3.20 3.80	7.79	4.59
✓	21.6	7.9	K		K	10	3	{1.70 2.35	5.85	4.15
✓	21.3	8.8	H		E	n	1	{3.98 4.45		
✓	21.5	10.3	a		E	3	3	2.82	6.76	4.54
✓	21.6	10.7	a		E	n	1	3.71		

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1875 Approx	C.P.D. Design.	1875 R.A.	1875 Dec.	Mag.	R.A. 1900	Dec. 1900				
2 8 mv 50	-82° 1	-82°	48' 2 50	59	-82°	0.1	8.7 ✓			
2 44	-82 1	-82°	47' 2 43	58	-82°	0.1	8.6 ✓			
2 40	-82 3	-82	45' 2 40	0	-82	2.1	8.8 ✓			
2 27	-82 8	-82	42' 2 27	9	-82	6.8	9.0 ✓			
2 0	-82 6	-82	34' ✓1 59	41	-82	6.3	7.0 ✓	i	59.0 -81 59	54
1 52	-81 59	-81	36' ✓1 51	59	-81	58.5	8.3 ✓	i	51.4 -81 51	54
1 25	-81 30	-81	26' ✓1 25	32	-81	31.1	9.2 ✓			
4 55	-81 43	-81	125' 4 54	36	-81	42.9	8.6 ✓			Correct if 8.1 intended ?
4 35	-81 51	-81	116' ✓4 35	52	-81	50.7	8.2 ✓			
3 37	-82 42	-82	68' 3 37	53	-82	43.3	8.8 ✓			
3 31	-82 55	-82	65' ✓3 32	1	-82	54.7	8.0 ✓	3	29.7 -82 50	54
3 30	-82 42	-82	64' 3 30	20	-82	41.9	7.8 ✓	3	28.2 -82 37	54 Correct if 19.5 intended ?
2 42	-82 45	-82	46' ✓2 42	5	-82	46.1	7.5 ✓	2	40.6 -82 40	54
2 36	-82 29	-82	44' 2 35	48	-82	28.0	9.2 ✓			
2 33	-82 35	-82	43' ✓2 33	26	-82	34.3	8.2 ✓			
1 30	-81 52	-81	28' ✓1 30	7	-81	51.0	8.9 ✓			
5 23	-81 41	-81	134' ✓5 24	32	-81	40.2	7.8 ✓	5	22.1 -81 39	50
2 30	-83 3	-83	45' ✓2 29	24	-83	2.1	8.2 ✓			
2 22	-83 5	-83	42' ✓2 21	58	-83	5.1	8.2 ✓			
2 9	-82 54	-82	39' ✓2 9	38	-82	53.5	7.6 ✓	2	8.5 -82 47	54
		-83°	35' 2 5	30	-83	6.4	7.5	2	4.4 -82 59	54 ?
		-82°	37' 2 2	47	-82	53.8	8.5	2	1.8 -82 47	54 ?
1 39	-82 54	-82	28' ✓1 39	55	-82	54.8	7.8 ✓	1	39.3 -82 47	54 Remark
1 15	-82 12	-82	22' 1 16	42	-82	12.0	8.2 ✓	1	16.7 -82 4	54
1 6	-82 18	-82	16' ✓1 6	1	-82	19.0	8.4 ✓	i	6.1 -82 11	54
5 13	-82 40	-82	106' 5 13	10	-82	38.1	6.7 ✓	5	10.2 -82 36	50
4 57	-82 45	-82	99' ✓4 57	23	-82	43.8	8.6 ✓			
4 36	-83 11	-83	91' ✓4 37	32	-83	10.0	6.6 ✓	4	34.5 -83 7	50
4 30	-83 17	-83	90' ✓4 31	30	-83	16.8	8.0 ✓			

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V.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photom. Magn.	Diff.
21.7	11.2	A		E	N	1	3.98		
21.3	12.2	M		E	N	1	{3.90 F		
21.4	14.0	M		E	N	1	{4.10 F		
22.0	14.8	A		E	N	2	2.90	7.59	
21.6	15.3	M		E	N	1	{3.78 4.15-		
21.1	16.2	A		E	N	1	4.03		
21.2	17.9	M		K	10	2	{3.53 3.84	7.85	4.32
21.1	18.9	M		E	N	1	{3.85- F		
21.4	20.0	F	4988	K	10	1	3.4	8.25	
22.9	12.0	K		K	10	2	{3.18 3.80	7.32	4.14
22.6	19.7	G		K	10	2	2.95		
22.5	20.1	G+K		K	10	2	{3.10 3.60	7.36	4.26
22.0	20.3	K		K	10	4	{1.21 1.80	5.88	4.67
23.8	11.5	K		K	10	2	{2.90 3.50	7.13	4.23
23.3	13.1	F	4989	K	10	2	2.97	7.80	4.83
23.3	14.8	M		E	N	1	{3.80 F		
24.0	21.5	K		K	10	3	{3.20 3.85-	7.40	4.20
23.5	21.9	G+K		K	10	1	{3.70 4.00	8.19	
23.9	22.0	A+M		E	N	1	{3.85-		
							10.05-		

9.00 P.M. → 23.9
Interval 2.9

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1875 Approx	C.P.D. Decln.		1875 RA	1875 Decl.	Mag.		RA. 1900	Dec. 1900.
4h 25	-83° 25		-83° 85'	4h 24m 30	-83°	24.8	8.2	✓
4 6	-83 22		-83 79	✓ 4 6 37	-83	22.7	8.7	✓
3 35	-83 37		-83 70	3 36 20	-83	37.8	8.8	✓
3 22	-84 0		-8~~4~~3 64	3 22 46	-8~~4~~3	59.3	7.7	✓ 3 20.0 -83 54 54
3 13	-83 48		-83 58	✓ 3 12 31	-83	49.0	8.7	✓
2 57	-83 32		-83 51	2 56 28	-83	33.2	8.7	✓
2 26	-83 32		-83 44	✓ 2 26 21	-83	31.2	8.2	✓ 2 24.8 -83 24 54
2 9	-83 20		-83 37	✓ 2 9 5	-83	19.9	8.7	✓
1 50	-83 18		-83 32	✓ 1 50 43	-83	17.6	7.9	✓ 1 49.8 -83 11 54
4 54	-83 44		-83 94	✓ 4 53 58	-83	43.3	8.3	✓ 4 50.4 -83 41 54
1 49	-83 59		-83 30	✓ 1 47 43	-83	59.4	7.7	✓
1 42	-83 52		-83 28	✓ 1 42 24	-83	52.5	8.2	✓ 1 41.5 -83 45 54
1 41	-83 36		-83 27	✓ 1 41 19	-83	36.6	6.3	✓ 1 40.5 -83 29 50
4 35	-84 28		-84 49	4 35 10	-84	27.8	7.8	✓ 4 31.1 -84 25 54
4 0	-84 28		-84 44	3 4 59 7	-84	27.4	7.6	✓ 3 55.5 -84 23 54
3 24	-84 36		-84 40	✓ 3 24 10	-84	37.0	8.7	✓
1 6	-84 15		-84 20	✓ 1 6 8	-84	15.5	8.2	✓ 1 5.9 -84 8 54
1 4	-83 54		-83 21	✓ 1 3 34	-83	55.5	8.3	✓ 1 3.4 -83 47 54
1 8	-83 33		-83 22	✓ 1 7 40	-83	34.2	8.2	✓ Correct if 22.9 intended

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8.15 P.M. Plate B. 20,151 9.00 P.M. Aug. 4, 1903

	V.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photom. Magn.	Diff.
√	5.5	5.4	Ge	K		12	4	{1.80 2.30}	5.14	3.34
√	5.6	10.3	A	E	N	1		4.31	8.33	4.02
√	4.9	15.2	K	K		10	3	{2.85 4.10}	5.28	2.43
√	5.3	24.4	K	K		10	4	{0.38 1.70}	3.17	2.79
√	6.9	9.3	A	E	N	1		4.39		
√	6.4	11.4	G	K		10	2	4.10		
√	6.9	11.9	A	E	N	1		4.33		
√	6.2	23.9	K	K		10	1	3.88	7.44	
√	7.7	10.7	K	K		10	3	{2.81 2.90}	5.06	3.25
√	7.7	16.4	A	E	N	1		4.25		
√	7.4	20.0	H	E	N	1		{4.48 H}		
√	8.1	14.2	F	K		10	1	4.10		
√	8.4	22.8	H	E	N	1		{4.40 F}		
Do type not 6.6?	10.0	5.6	A	O	N	2		2.90	6.89	3.99
√	9.3	13.2	H	E	N	1		{4.26 F}		
√	9.9	13.7	G	K		10	2	3.92		
√	9.2	21.7	F	K		10	1	4.05		
√	10.0	22.7	A	η	N	2		3.84		
√	10.1	6.1	A	E	N	1		4.25		
√	10.3	16.7	K	K		10	3	{2.78 3.13}	5.88	3.15
√	11.0	16.0	A	E	N	1		4.34 ~~3.50~~		
√	10.6	18.1	F	K		10	2	3.50		
√	11.2	14.0	H	E	N	1		{4.35 F}		
√	11.3	14.3	K	K		10	2	{3.33 4.08}	6.19	2.96
√	11.2	14.5	H	E	N	1		{4.37 F}		
√	11.2	15.0	A	E	N	1		4.40		
√	11.6	16.0	A	η	3	2		3.50		
√	11.9	17.0	A	E	N	1		4.40		
√	11.5	18.6	H	E	N	1		{4.46 F}		

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	C.P.D.	1875	1875								
	Design	R.A. Dec.		Mag.	R.A. 1900	Dec. 1900					
6 17 - 74 43	-74 374	v 6 R 13 m 58.0	-74 °	42.7	5.9	v	6	13.2	-74	43	50
5 37 - 75 18	-75 321	5 37 8.0	-75	18.7	8.0	v	5	36.3	-75	18	54
4 58 - 75 8	-75 290	v 4 58 46.0	-75	7.6	7.5	v	4	58.1	-75	5	50
3 50 - 74 36	-74 276	v 3 49 11.0	-74	37.3	6.1	v	3	48.8	-74	33	50
5 47 - 75 53	-75 334	v 5 46 53.0	-75	52.9	8.1	v					
5 30 - 75 45	-75 314	v 5 29 48.0	-75	46.9	8.0	v					
5 26 - 76 3	-76 318	v 5 25 49.5	-76	1.7	8.0	v					
3 50 - 75 5	-75 251	v 3 50 27.0	-75	4.4	7.4	v	3	49.9	-75	0	54
5 37 - 76 27	-76 333	v 5 36 49.0	-76	25.5	7.1	v	5	35.8	-76	25	50
4 48 - 76 30	-76 294	v 4 48 33.0	-76	31.7	8.1	v					
4 18 - 76 6	-76 265	v 4 18 7.0	-76	6.8	8.3	v					
5 6 - 76 48	-76 303	v 5 6 59.0	-76	47.5	7.6	v					
3 53 - 76 15	-76 251	v 3 53 25.0	-76	15.8	8.5	v					
6 16 - 77 5	-77 243	v 6 16 8.8	-77	3.9	7.0	v	6	15.1	-77	5	54 Correct if 6.6 intended
5 16 - 77 22	-77 196	v 5 16 8.5	-77	21.4	8.4	v					
5 12 - 77 42	-77 192	v 5 12 28.5	-77	42.4	7.5	v					
4 1 - 76 52	-76 259	v 4 0 57.0	-76	51.7	7.9	v					
3 50 - 77 7	-77 150	v 3 50 12.0	-76	5.8	7.7	v					
6 20 - 77 1	-77 250	v 6 20 50.5	-77	0.0	8.1	v					
4 44 - 77 54	-77 181	v 4 44 3.5	-77	53.4	7.0	v	4	42.9	-77	50	50
4 50 - 78 15	-78 152	v 4 50 13.0	-78	14.3	7.8	v					
4 30 - 77 58	-77 172	v 4 30 24.0	-77	57.5	7.5	v					
5 8 - 78 22	-78 166	v 5 8 16.0	-78	21.0	8.3	v					
5 7 - 78 28	-78 165	v 5 6 58.0	-78	28.2	7.6	v	5	5.6	-78	26	50
5 5 - 78 22	-78 163	v 5 5 4.0	-78	21.7	7.9	v					
4 59 - 78 20	-78 159	v 4 59 43.0	-78	20.2	8.2	v					
4 59 - 78 36	-78 160	v 4 59 48.0	-78	35.5	7.4	v					
4 39 - 78 37	-78 147	v 4 39 26.0	-78	37.2	8.1	v					
4 24 - 78 21	-78 135	v 4 24 49.0	-78	19.8	8.9	v					

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Plate B 20151

	V.	H.	Cl.	Rem.	L.	M.	Int.	Br.	Photom. Magn.	Diff.	
	11.1	23.5	H		E	N	1	{4.35 F			3
	13.4	9.1	H		E	N	1	{4.27 F			6
	12.5	10.8	A		λ	N	3	1.97	6.14	4.17	53
	12.3	17.1	A		η	5	2	3.59			4
	12.9	19.9	K		K	10	3	{3.95 3.80	6.70	3.75	4
	12.4	24.0	H		E	N	1	{4.04 4.45			3
Is Harvard 58	14.0	4.8	A		E	N	2	3.60			6
	14.0	6.7	H		E	N	1	{4.15 F			6
	13.8	9.6	A		μ	N	4	0.73	5.56	4.73	5
	13.9	16.3	H		E	N	1	{4.32 F	8.04	3.71	4
	13.5	19.0	A		E	N	1	4.20			4
	13.2	22.5	G5K		K	10	2	{3.00 3.62	6.08		3
	13.5	23.1	K		K	15	3	{2.02 2.62	5.64	3.62	3
	14.7	11.0	A		E	N	1	4.10	8.48		5
	14.4	15.3	A5F	4994	K	10	2	3.60	7.92	4.32	4
	14.2	17.9	A		ν	4	3	2.61	7.02	4.41	4
	14.6	22.0	G5K		K	10	2	{3.14 3.81	6.79	3.65	3
	15.8	11.1	F2G			12	3	1.46	5.65	4.19	5
	16.1	13.3	H		E	N	1	{4.28 H	7.89	3.61	5
	15.5	13.3	F	4995	K	10	2	3.60	7.64		5
	15.5	17.7	G			10	3	1.58	5.62	4.04	4
	15.1	24.1	F	4996	K	10	2	3.55			3
	15.6	24.5	F	4997		10	4	1.40	5.70	4.30	3
	16.7	12.4	A		η	3	2	3.00	7.15		5
	16.4	15.1	G		K	10	1	4.02			4
	16.1	15.3	F	4998	K	10	1	3.98	7.91		4
	16.8	18.4	G		K	10	1	3.94	7.95		4
	17.7	6.3	A5F	4999	O	10	3	1.60	5.64	4.04	6
	17.1	6.9	A		E	N	1	4.17	8.12 8.96		6

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Appeal 1875	C.P.D. Design.				1875 RA	1875 Dec.	Mag.	R.A. 1900	Dec. 1900		
3h 40m	-77° 30'	{-77	142	3 40 6.0	-77	31.3	8.9}	✓			
		{-77	143	3 40 29.5	-77	29.5	8.8}				
6 0	-78 36	-78	207	✓5 59 32.0	-78	36.1	8.6	✓			
5 43	-78 54	-78	195	✓5 43 17.0	-78	53.1	6.2	✓ 5	41.8	-78 52	50
4 37	-78 54	-78	145	✓4 37 50.0	-78	53.2	7.3	✓			
4 8	-78 39	-78	125	✓4 8 24.0	-78	58.0	7.7	✓ 4	7.2	-78 54	54
3 32	-78 3	-78	99	✓3 31 47.8	-78	2.4	7.8	✓			
6 37	-78 48	-78	232	✓6 36 15.0	-78	48.5	7.9	✓			Correct if 5.8 intended
6 29	-79 0	-78	227	✓6 28 47.0	-78	59.5	7.8	✓			
5 59	-79 24	-79	202	✓5 58 42.0	-79	22.9	5.6	✓ 5	57.0	-79 23	50
4 45	-79 43	-79	152	✓4 45 50	-79	41.7	8.2	✓ 4	43.5	-79 39	54
4 16	-79 22	-79	134	✓4 16 29.0	-79	19.9	8.0	✓			
3 41	-78 44	-78	105	✓3 41 18.0	-78	43.5	7.7	✓ 3	40.3	-78 39	50
3 34	-78 46	-78	101	✓3 34 34.0	-78	46.1	6.2	✓ 3	33.6	-78 41	50
5 45	-80 2	-79	193	✓5 45 36.0	-79	58.3	8.0	✓ 5	43.7	-79 58	54
4 56	-80 2	-80	132	✓4 56 9	-80	0.6	7.5	✓ 4	54.4	-79 59	54
4 26	-79 49	-79	141	✓4 26 38.0	-79	48.5	6.8	✓ 4	25.0	-79 45	54
3 42	-79 30	-79	109	✓3 42 4.0	-79	30.0	7.7	✓ 3	40.9	-79 25	54
5 47	-80 35	-80	161	✓5 47 10	-80	33.6	6.5	✓ 5	45.1	-80 34	50
5 21	-80 20	-80	146	✓5 21 4	-80	19.3	9.6	✓ 5	19.2	-80 18	54
5 20	-80 33	-80	145	✓5 20 14	-80	32.7	7.9	✓ 5	18.3	-80 32	54
4 26	-80 30	-80	116	✓4 26 32	-80	30.3	6.5	✓ 4	24.7	-80 27	50
3 18	-79 18	-79	98	✓3 18 15.3	-79	16.9	7.1	✓			
3 12	-79 28	-79	91	✓3 11 58.3	-79	27.8	5.6	✓ 3	10.9	-79 22	50
5 32	-81 10	-81	142	✓5 33 20	-81	8.3	7.3	✓ 5	31.1	-81 7	54
4 57	-80 58	-80	133	✓4 58 17	-80	58.8	8.1	✓			
4 55	-80 52	-80	131	✓4 55 22	-80	51.0	7.7	✓ 4	53.3	-80 49	54 Remark
4 15	-81 3	-81	104	✓4 15 48	-81	2.8	8.0	✓ 4	13.9	-80 59	54
6 50	-80 42	{-80	196	✓6 50 25	-80	40.8	6.0}	✓ 6	48.4	-80 42	50
		{-80	195	6 50 17	-80	41.8	9.2}				
6 39	-80 30	{-80	186	✓6 39 45	-80	29.3	8.6}	✓ 6	37.7	-80 30	54
		{-80	185	6 39 3	-80	26.1	8.8}	6	31.9	-80 27	54

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V	H.	Cl	Rem.	L.	K	Int. Br.	Photom. Magn.	Diff.	
✓17.4	8.9	a		E	5 2	3.10	7.30	4.20	6
✓18.0	11.5	F	5000	K	10 2	3.52	7.24	3.72	3
✓18.0	12.1	a		E	9n 1	4.20			5
✓17.7	13.2	K		K	10 2	3.00 / 3.72	6.48	3.48	5
✓17.7	15.4	H		E	9n 1	4.38 F			4
✓17.4	16.3	H		E	9n 1	4.30 F			4
✓16.2	20.8	G		K	10 1	4.32	7.87		3
✓17.9	20.5	H		E	9n 1	4.28 F	7.84		3
✓17.9	21.3	H		E	9n 1	4.30 F	7.76	3.46	3
✓18.5	6.0	H		E	9n 1	4.20 F	7.35	3.15	6
✓18.5	8.8	a		E	9n 1	4.07	8.04		6
✓18.2	16.7	a		E	9n 1	4.21			4
✓18.6	16.8	H		E	9n 1	4.40 F			4
✓18.1	16.9	F	5001	K	10 3	1.52	5.79	4.27	4
✓19.3	19.3	a		E	9n 2	2.90	7.44	4.54	6
✓19.2	9.5	a		E	9n 1	~~3.95~~ 3.80	8.28	4.23	6
✓19.6	9.3	a		E	9n 2	2.86 ~~3.95~~	7.61	4.75	6
✓19.8	10.9	a		E	9n 1	4.21			6
✓19.6	14.1	K		K	12 3	3.40 / 3.00	5.85	3.45	5
✓19.6	22.9	a		E	9n 1	3.80	7.65		3
✓20.7	16.3	a		O	9n 2	2.40	6.76		4
✓21.0	16.6	a		E	9n 1	4.30			4
✓									
2 Nov 1903 21.9	20.5	a		E	9n 1	4.40	8.07		3
✓21.7	7.6	a		E	9n 1	3.92	7.63		6
✓21.3	9.2	a		E	9n 1	4.33			6
✓21.8	15.3	H		E	9n 1	3.50 F	7.32		4
✓23.2	13.5	F	5002	K	10 2	3.10	6.77		5
✓22.4	23.2	G		K	10 1	3.50	7.49		2
✓23.7	7.6	H		E	9n 1	3.35 F	7.59		7

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Approx 1875	B.D. Design.	RA	Dec.	Magn.	P.A. 1900	Dec. 1900			
6h 18m -81°	3' -81° 175	6 18 20	-81°	1.6	7.3	✓	6	16.1 -81	3 54
5 48 -81	40 -81 152	5 48 10	-81	40.1	7.4	✓	5	45.7 -81	40 54
5 39 -81	40 -81 148	5 39 13	-81	40.2	8.1	✓			
5 25 -81	40 -81 134	5 24 32	-81	40.2	7.8	✓	5	22.1 -81	39 50
4 55 -81	43 -81 125	4 54 36	-81	42.9	8.6	✓			
4 41 -81	30 -81 122	4 42 2	-81	30.8	8.8	✓			
3 50 -80	26 -80 93	3 49 30	-80	24.3	8.5	✓	3	48.0 -80	20 54 Remark
	-80 94	3 49 32	-80	24.5	9.2				
3 45 -81	15 -81 88	3 45 32	-81	15.0	9.0	✓	3	43.8 -81	10 54
	-81 89	3 45 45	-81	15.4	9.0				
3 35 -81	8 -81 83	3 36 8	-81	7.8	8.1	✓	3	34.5 -81	3 54
6 59 -81	0 -80 201	6 58 20	-80	54.5	8.7	✓	6	56.3 -80	57 54
6 23 -81	30 -81 179	6 24 17	-81	29.5	7.7	✓	6	21.8 -81	31 54
4 35 -81	50 -81 116	4 35 52	-81	50.7	8.2	✓			
4 33 -82	3 -82 89	4 33 32	-82	3.1	8.4	✓			
4 31 -81	52 -81 115	4 32 8	-81	51.6	6.3	✓	4	29.8 -81	49 50
6 20 -82	0 -82 143	6 21 28	-82	0.0	7.2	✓	6	18.8 -82	1 54
6 18 -81	58 -81 176	6 18 44	-81	57.2	8.0	✓	6	16.1 -81	58 54
6 23 -82	7 -82 144	6 22 44	-82	6.6	6.7	✓	6	20.0 -82	8 54
6 1 -82	28 -82 136	6 1 26	-82	26.7	7.3	✓			
5 13 -82	38 -82 106	5 13 10	-82	38.1	6.7	✓	5	10.2 -82	36 50
3 7 -81	35 -81 67	3 6 52	-81	34.5	7.6	✓	3	5.4 -81	29 54
4 36 -83	12 -83 91	4 37 32	-83	10.0	6.6	✓	4	34.5 -83	7 50
4 31 -83	18 -83 90	4 31 30	-83	16.8	8.0	✓			
3 30 -82	42 -82 64	3 30 20	-82	41.9	7.8	✓	3	28.2 -82	37 54
6 59 -82	45 -82 161	7 0 17	-82	44.2	8.2	✓	6	57.4 -82	46 54
6 33 -82	54 -82 148	6 34 20	-82	53.5	7.7	✓			
4 55 -83	43 -83 94	4 53 58	-83	43.3	8.3	✓	4	50.4 -83	41 54
5 26 -83	59 -83 105	5 26 34	-83	59.7	7.1	✓	5	22.6 -83	59 54
2 42 -82	45 -82 46	2 42 5	-82	46.1	7.5	✓	2	40.6 -82	40 54
7 17 -83	32 -83 151	7 17 19	-83	33.1	8.4	✓	7	13.9 -83	36 54

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	V.	H.	Bl.	Rem.	L.	K	Int. Br.	Photom. Magn.	Diff
✓	23.8	8.4	h	5003	H	10	1 4.10	7.75	
✓	24.3	13.5	a		N	3	2.40	6.24	3.84
✓	23.3	16.1	H	E	N	1	{3.87 F	7.13	3.26
✓	23.9	16.1	a	E	N	2	3.22	7.18	3.96
✓	23.7	17.8	a	E	N	1	4.03	7.80	3.77
9.00 P.M. ✓	23.4	20.1	a	E	N	1	3.95	7.59	

9.25 P.M.

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Approx 1875	C.P.D. Decln.		1875 R.A.	1875 Dec.	Mag	R.A. 1900	Dec. 1900	
h m ° ′	° ′		h m	° ′		h m s	° ′ ″	
7 6	-83 50	-83 142	7 5	-83 49.6	7.9	7 1.4	-83 52	54
5 53	-84 48	-84 75	5 54	-84 50.5	6.0	5 49.6	-84 50	50
4 35	-84 28	-84 49	4 35	-84 27.8	7.8	4 31.1	-84 25	54
4 34	-84 45	-84 48	4 34	-84 46.4	6.7	4 30.1	-84 43	54
4 0	-84 28	-84 44	3 59	-84 27.4	7.6	3 55.5	-84 23	54
3 22	-83 58	-83 64	3 22	-83 59.3	7.7	3 20.0	-83 54	54

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9.25 P.M. Plate B10820 8.05 Aug. 5 1903

	V. M.	bl	Remk.	K.	Pt.	Br.	Photom Magn.	Diff.	
√	5.2	22.0	K.M.	K	12	3	{2.78 3.10}	5.14	2.36
√	6.1	11.0	a	ε	η	1	4.18	7.58	3.40
√	6.5	13.5	a	ε	η	1	4.30		
√	9.0	5.8	a	η	η	2	3.56		
√	9.0	11.6	a	ε	η	2	3.35	7.31 7.58	4.23
√	8.5	16.8	H	K	10	2	{4.10 4.40}	6.90	
√	9.6	6.6	F	5004	λ	10	4	1.18	4.08	2.90
√	10.0	11.4	H	ε	η	1	{4.35 F}	6.48	2.13
√	10.0	16.3	a	ε	η	1	4.00		
√	9 10.6	18.8	a	η	η	2	3.43	6.98	3.55
√	9.4	20.3	a	ε	η	1	4.40		
√	9.7	20.8	a	η	2	2	3.27	6.89	3.62
√	10.8	6.7	K.M.	K	12	3	{1.55 2.25}	4.26	2.71
√	10.2	15.9	a	5005	K	10	1	4.18		
√	10.8	1 52.9		5005 A	K	10	2	3.52	6.71	
√	11.6	11.2	a		η	3	2	3.00	6.85	
√	12.5	7.2	a	ε	η	1	4.30		
√	12.7	8.6	H	ε	η	1	{4.08 4.40}		
√	12.7	12.8	K	K	10	3	{2.80 3.75}	5.42	2.62
√	12.7	18.2	G N	ε	η	1	{4.20		
√	13.5	9.5	H	ε	η	1	{4.22 F}		
√	13.5	14.3	a	ε	η	1	4.10		
√	13.4	15.5	a	ι	2	3	1.90	5.51	3.61
√	13.2	18.9	H	ε	η	1	{4.26 F}		
√	14.0	23.1	a	ι	η	3	2.41	6.14	3.73
√	14.6	5.6	a	η	3	2	2.60	6.12	3.52
√	14.3	5.7	a	χ	η	3	1.27	5.62	4.35
√	14.1	8.3	a	η	η	2	3.02		
√	14.4	21.5	a	χ	η	3	1.61	5.56	3.95
√	15.4	6.7	K	K	10	2	{3.33 4.20}	5.76	2.43

Read V 9.8

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1875 E.P.D. 1875 1875

Approx.	Design.	R.A.	Dec.	Mag.			R.A. 1900	Dec. 1900		
6h 14m -74 43	-74° 374	6h 13m 58s	-74°	42.7	5.9	✓	6	13.2	-74	43	50
7 39 -75 17	-75 458	7 39 20	-75	15.4	7.8	✓	7	38.4	-75	19	54
7 19 -75 37	-75 437	7 19 28.0	-75	38.2	7.8	✓					
8 25 -76 2	-76 514	8 25 34.5	-76	1.4	7.4	✓					
7 37 -76 48	-76 458	7 38 1.5	-76	48.0	7.1	✓	7	~~38.4~~ 7.1	~~-75~~ -76	~~19~~ 52	~~54~~ 54
6 51 -76 42	-76 422	6 52 39.0	-76	42.0	8.5	✓	6	51.7	-76	44	54
8 22 -76 32	-76 507	8 21 42.0	-76	31.4	4.5	✓	8	21.1	-76	36	50
7 41 -77 22	-77 321	7 41 4.5	-77	20.6	8.1	✓	7	40.1	-77	25	50
6 57 -77 30	-77 286	6 57 1.5	-77	30.8	7.5	✓					
6 34 -77 12	-77 258	6 34 0.5	-77	11.9	7.1	✓	6	32.9	-77	13	54
6 20 -77 0	-77 250	6 20 50.5	-77	0.0	8.1	✓					
6 16 -77 4	-77 243	6 16 88	-77	3.9	7.0	✓	6	15.1	-77	5	54
8 24 -77 6	-77 383	8 24 20.0	-77	4.9	5.8	✓	8	23.6	-77	10	50
7 0 -77 36	-77 288	7 0 2.0	-77	36.7	7.4	✓					
6 40 -77 33	-77 270	6 40 10.0	-77	34.4	7.5	✓	6	39.0	-77	36	54 Error of 9.8 intended
7 46 -78 6	-78 273	7 46 0.0	-78	5.2	6.2	✓	7	44.9	-78	9	54
8 24 -77 55	-77 384	8 24 24.0	-77	55.5	8.2	✓					
8 13 -78 18	-78 297	8 13 16.0	-78	19.2	8.3	✓					
7 32 -78 48	-78 265	7 32 27.0	-78	49.9	6.7	✓	7	36.2	-78	53	50
6 36 -78 48	-78 232	6 36 15.0	-78	48.5	7.9	✓					
	-78 233	6 36 25.0	-78	48.7	9.5						
8 7 -78 48	-78 284	8 6 57.0	-78	48.1	8.0	✓					
7 17 -79 12	-79 243	7 17 6.0	-79	12.9	7.2	✓					
7 4 -79 14	-79 238	7 4 27.0	-79	14.1	5.2	✓	7	2.9	-79	16	50
6 28 -79 0	-78 227	6 28 47.0	-78	59.5	7.8	✓					
5 42 -78 53	-78 195	5 43 17.0	-78	53.1	6.2	✓	5	41.8	-78	52	50
8 47 -78 36	-78 378	8 47 24.0	-78	36.7	6.7	✓	8	46.6	-78	43	50
8 45 -78 30	-78 372	8 45 20.9	-78	30.6	5.8	✓	8	44.7	-78	37	50
8 20 -78 56	-78 315	8 20 35.0	-78	55.6	7.4	✓					
6 0 -79 22	-79 202	5 58 42.0	-79	22.9	5.6	✓	5	57.0	-79	23	50
8 50 -79 4	-79 352	8 50 25.0	-79	2.4	7.7	✓	8	49.8	-79	8	50

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V.	H.	Cl.	Rem.	L.	K.	Int.	Res.	Photom. Magn.	Diff
√16.3	17.2	H		E	n	1	{4.20 F	7.06	2.86
√16.2	16.7	a		e	4	3	1.80	5.64	3.84
√17.0	21.7	b5		K	10	3	2.61	5.65	3.04
√17.3	8.5	b5	K	K	10	3	{2.70 3.30	5.60	2.90
√17.9	11.5	a		E	4	3	3.03	6.93	3.90
√18.0	18.5	a		E	n	1	4.06	8.04	3.98
√17.2	19.1	a&F	5006	K	10	2	3.60	7.30	3.70
√18.6	11.8	a		E	n	2	3.77	7.84	4.07
√19.0	18.5	a		E	n	2	3.98	7.44	3.46
√19.0	18.7	a		E	n	1	4.07	8.28	4.21
√19.0	21.0	F2	5007	K	10	2	3.69	7.24	3.55
√18.5	22.4	a		E	n	2	3.58	7.15	3.57
√19.4	12.1	H		E	n	1	{4.26 F	7.88	3.62
√19.7	12.3	H		E	n	1	{4.22 F	7.58	4.36
√19.3	18.4	a		E	n	2	3.43	7.61	4.18
√19.7	22.5	K		K	10	2	{3.50 4.10	6.48	2.98
√20.6	8.9	a		E	n	2	3.27	6.86	3.59
√20.4	15.7	a		E	n	1	3.92	7.63	3.71
Is this 17.2? √20.8	17.8	a		E	n	1	4.19		
√20.3	19.6	a		E	n	1	4.35		
√21.2	6.7	F	5008	K	10	1	4.22	7.84	3.62
√22.0	14.8	H		E	n	1	{4.17 F	7.59	3.42
√21.7	22.5	K		K	10	3	{3.04 3.30	5.85	2.81
√22.2	11.9	a		E	n	1	{4.26	8.39	4.13
√23.4	14.2	a		n	n	2	3.73	7.64	3.91
√22.5	15.5	F	5009	K	10	1	4.03	7.75	3.72
√23.8	20.5	b		K	10	2	3.74	6.77	3.03
9.45 P.M. √23.8	23.6	a		E	n	2	3.65	6.76	3.11

8.35 P.M.

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1875 Approx.	C.P.D. Decln.	1875 R.A.	1875 Decl.	Mag.		R.A. 1900	Decl. 1900		
8 39 −79 45	−79° 327	8h 39m 24.0	−79° 43′.1	8.4	v	8	38.3	−79 48	54
6 50 −80 40	−80 196	6 50 25	−80 40.8	6.0	v	6	48.4	−80 42	50
5 47 −80 33	−80 161	5 47 10	−80 33.6	6.5	v	5	46.1	−80 34	50
8 32 −80 30	−80 258	8 31 38	−80 30.2	7.4	v	8	30.3	−80 35	50
7 57 −81 18	−81 237	7 57 24	−81 16.2	6.5	v	7	55.5	−81 20	54
6 23 −81 30	−81 179	6 24 17	−81 29.5	7.7	v	6	21.8	−81 31	54
6 18 −81 0	−81 175	6 18 20	−81 1.6	7.3	v	6	16.1	−81 3	54
7 55 −81 38	−81 236	7 55 57	−81 38.6	7.2	v	7	53.9	−81 43	54
6 20 −82 0	−82 143	6 21 28	−82 0.0	7.2	v	6	18.8	−82 1	54
6 19 −81 59	−81 176	6 18 44	−81 57.2	8.0	v	6	16.1	−81 58	54
5 49 −81 41	−81 152	5 48 10	−81 40.1	7.4	v	5	45.7	−81 40	54
5 33 −81 8	−81 142	5 33 20	−81 8.3	7.3	v	5	31.1	−81 7	54
7 53 −82 3	−82 216	7 53 34	−82 1.5	8.3	v	7	51.4	−82 6	54
7 53 −82 17	−82 215	7 52 26	−82 16.3	8.4	v	7	50.1	−82 20	54
6 23 −82 7	−82 144	6 22 44	−82 6.6	6.7	v	6	20.0	−82 8	54
5 24 −81 40	−81 134	5 24 32	−81 40.2	7.8	v	5	22.1	−81 39	50
8 43 −82 8	−82 269	8 43 55	−82 7.5	7.3	v	8	42.2	−82 13	54
7 0 −82 45	−82 161	7 0 17	−82 44.2	8.2	v	6	57.4	−82 46	54
6 34 −82 54	−82 148	6 34 20	−82 53.5	7.7	v				correct if 17.2 intended
6 2 −82 26	−82 136	6 1 26	−82 26.7	7.3	v				
9 15 −81 49	−81 302	9 14 46	−81 48.5	8.0	v	9	13.5	−81 55	54
7 18 −83 33	−83 151	7 17 19	−83 33.1	8.4	v	7	13.9	−83 36	54
5 13 −82 38	−82 106	5 13 10	−82 38.1	6.7	v	5	10.2	−82 36	50
8 5 −83 22	−83 203	8 8 23	−83 22.4	7.9	v	8	5.6	−83 26	54
7 31 −84 14	−84 132	7 31 38	−84 13.5	7.2	v	7	27.8	−84 17	54
7 5 −83 50	−83 142	7 5 9	−83 49.6	7.9	v	7	1.4	−83 52	54
5 26 −83 58	−83 105	5 26 34	−83 59.7	7.1	v	5	22.6	−83 59	54
4 37 −83 10	−83 91	4 37 32	−83 10.0	6.6	v	4	34.5	−83 7	54

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* Mrs F. has examined Chart Plates B 6964, 29600, 5926, 27194, 25051 and can find but one image.

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8.35 P.M. Plate 73 89 90 9.35 P.M.

	V.	H.	Cl	Rem.	L.	K	Int	Bri.	Photom. Magn.	Diff.
✓	3.9	11.8	A		O	N	2	3.49	6.02	2.53
✓	3.9	11.9	A		V	2	4	1.62	5.45	3.83
✓	4.3	15.6	A		E	N	1	4.30		
✓	4.4	17.1	A		E	N	1	4.20		
✓	4.1	17.9	H		E	N	1	4.30 / 4.40	6.73	2.63
✓	4.3	16.7	A H		K	10	1	4.26		
✓	4.7	19.5	A		E	N	1	4.27		
✓	5.6	7.3	A		E	N	1	4.40		
✓	5.8	11 2.0	H		E	N	1	4.45 / F	8.03	
✓	5.6	11.6	A		η	N	2	3.56		
✓	5.3	12.5	A		ε	N	2	3.81	7.88	
✓	5.5	15.4	A		E	N	1	4.45		
✓	5.1	8 13.3	A		η	3	2	3.38	6.86	3.48
✓	6.1	8.2	F	5010	K	10	2	3.38	6.90 ~~6.86~~	3.52
✓	7.9	8.8	G₀K		K	12	9	2.39 / 2.60	5.35	2.96
✓	7.9	9.1	A		E	N	1	3.96		
✓	7.6	11.3	H		E	N	1	4.30 / F		
✓	7.3	12.7	G₀K		K	10	3	3.04 / 3.60	6.34	3.30
✓	7.1	13.4	A		η	N	2	3.62		
✓	7.6	16.7	H		K	10	1	4.02 / 4.40		
✓	8.0	17.2	G		K	10	1	4.18		
✓	7.2	18.5	A		O	N	2	3.44		
✓	8.3	7.4	A		E	N	1	4.40		
✓	8.1	15.7	A		η	3	2	3.05	6.87	3.82
✓	8.2	15.9	A		E	N	1	4.15		
✓	8.3	16.0	A		E	N	1	4.34		
✓	8.1	16.9	H		E	N	1	4.30 / F		
✓	8.1	16.8	F	5011	V	10	4	1.10	4.08	2.98
Two stars ✓ superposed *	9.8	11.6	F	5012	K	10	1	3.92		
	9.9	11.6	A		E	N	1	3.80		

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1875 Approx.	C.P.D. Design.		1875 R.A.	1875 Dec.	Magn.		R.A. 1900	Dec. 1900		
9 48	-74 12	-74 580	9 17	35.5	-74	12.3	5.9 ✓	9	17.6	-74 18	50
9 18	-74 22	-74 579	9 17	34.8	-74	22.0	5.5 ✓	9	17.6	-74 28	50
8 50	-74 36	-74 545	8 50	10.5	-74	35.3	8.0 ✓				
8 39	-74 38	-74 531	8 39	22.0	-74	37.4	8.0 ✓				
8 33	-74 26	-74 520	8 33	18.5	-74	25.5	8.0 ✓	8	33.0	-74 31	54
8 26	-74 30	-74 509	8 26	45.0	-74	30.0	8.0 ✓	Do CPD -74 510 cyf a posed?			
8 21	-74 36	-74 500	8 20	44.5	-74	36.9	7.4 ✓				
9 53	-74 48	-74 649	9 52	56.0	-74	47.2	7.8 ✓				
9 25	-75 12	-75 582	9 25	50.5	-75	13.8	8.2	9	25.8	-75 20	54
		-75 581	9 25	50.0	-75	17.0	9.1 ✓				
9 21	-75 10	-75 575	9 20	54.0	-75	10.8	7.3 ✓				
9 14	-75 6	-75 570	9 14	16.0	-75	4.1	7.5 ✓	9	14.2	-75 10	54
8 51	-75 12	-75 541	8 51	44.0	-75	11.2	7.9 ✓				
8 29	-74 58	-74 513	8 29	32.0	-74	56.6	7.1 ✓	8	29.2	-75 1	54
9 47	-75 12	-75 621	9 47	53.0	-75	11.9	7.5 ✓	9	48.0	-75 19	54
9 46	-76 12	-76 598	9 46	16.0	-76	11.6	7.4 ✓	9	46.3	-76 19	50
9 44	-76 12	-76 597	9 43	50.0	-76	11.5	8.0 ✓				
9 26	-76 12	-76 584	9 25	22.0	-76	11.0	8.5 ✓				
9 13	-76 10	-76 574	9 13	27.0	-76	8.4	7.2 ✓	9	13.2	-76 15	50
9 8	-76 4	-76 568	9 7	36.0	-76	3.6	7.3 ✓				
8 40	-76 18	-76 530	8 40	18.0	-76	17.7	8.3 ✓				
8 35	-76 30	-76 525	8 35	11.5	-76	30.0	8.3 ✓				
8 25	-76 0	-76 514	8 25	34.5	-76	1.4	7.4 ✓				
10 00	-76 10	-76 515	8 25	41.5	-76	1.7	8.6 ✓				
		-76 609	9 58	37.0	-76	9.3	8.6 ✓				
8 48	-76 37	-76 544	8 48	7.0	-76	36.7	7.1 ✓	8	47.6	-76 43	54
8 46	-76 36	-76 539	8 46	9.0	-76	35.5	7.7 ✓				
8 45	-76 40	-76 538	8 45	34.0	-76	39.7	7.8 ✓				
8 38	-76 33	-76 528	8 38	35.0	-76	33.8	8.5 ✓				
8 21	-76 32	-76 507	8 21	42.0	-76	31.4	4.5 ✓	8	21.1	-76 36	50
9 25	-77 22	-77 507	9 25	7.0	-77	21.6	7.4 ✓				

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	V.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photom. Magn.	Diff.	
√	9.3	12.0	A		ε	N	1	4.26			9
√	9.2	14.7	A		ε	N	1	4.11			8
√	9.6	17.6	A		ε	N	1	4.20			8
√	9.2	18.4	K			12	3	{1.70 2.20	4.26	2.56	8
√	10.0	23.6	A		η	N	2	3.02	7.31	4.29	7
√	9.0	22.2	A		ε	N	1	4.32			7
√	11.1	9.1	A		ε	4	2	3.56			9
√	10.6	11.2	A		ε	N	1	4.20			9
√	10.8	12.3	A		ε	N	1	4.30			9
√	10.4	12.7	A		ε	N	1	4.17			9
√	10.9	15.1	A		ε	N	1	4.21			8
√	10.9	22.9	H		ε	N	1	{3.96 4.45	6.48	2.52	7
√	11.6	6.6	A		ε	N	1	4.07			10
√	12.0	15.7	A		λ	5	2	2.03	6.12	4.09	8
√	12.0	15.8	A		ε	N	1	3.32			8
√	11.8	15.9	A		λ	N	3	0.80	5.62	4.82	8
√	12.0	17.1	H		ε	N	1	{4.10 F			8
√	11.9	19.1	H		K	10	2	{3.77 4.22			8
√	12.0	22.0	A		η	3	2	2.83	6.85	4.02	7
√	11.8	22.9	H		ε	N	1	{4.30 F			7
√	12.5	5.7	A		ε	N	2	3.71			10
√	12.9	7.1	A		η	4	2	3.29			10
√	12.8	7.9	A		η	4	2	3.12			10
√	12.1	11.7	A		ε	N	2	3.68	7.84	4.16	9
√	12.2	12.3	A		ε	N	1	4.31			9
√	12.6	13.1	A		ε	N	2	3.70			9
√	12.8	14.0	A		ε	N	1	4.22			9
√	12.8	15.3	K		K	10	2	{2.95 3.77	5.76	2.81	8
√	12.9	15.2	A		η	N	2	2.86			8

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1875 Approx	C.P.D. Design.	R.A.	Dec.	1875 Magn.	1875 R.A. 1900	Dec. 1900					
9h 21	-77° 6	-77	503	'9 21 3.0	-77	6.8	8.0	✓			
8 57	-77 8	-77	460	✓8 57 24.0	-77	7.4	7.8	✓			
8 31	-77 18	-77	395	✓8 30 55.5	-77	18.6	8.7	✓			
8 24	-77 5	-77	383	✓8 24 20.0	-77	4.9	5.8	✓	8	23.6 – 77 10	50
7 37	-76 48	-76	458	✓7 38 1.5	-76	48.0	7.1	✓	7	37.1 – 76 52	54
7 52	-76 28	-76	477	✓7 52 47.0	-76	26.9	8.0	✓			
9 51	-77 42	-77	556	✓9 49 48.3	-77	41.8	7.7	✓			
9 30	-77 42	-77	519	'9 29 51.0	-77	42.3	9.3	✓			
		-77	520	9 29 56.3	-77	42.5	9.3				
9 20	-77 54	-77	502	'9 20 4.0	-77	53.8	8.2	✓			
9 16	-77 42	-77	490	✓9 15 37.5	-77	42.4	8.3	✓			
8 24	-77 56	-77	384	✓8 24 24.0	-77	55.5	8.2	✓			
7 42	-77 20	-77	321	✓7 41 4.5	-77	20.6	8.1	✓	7	40.1 – 77 25	50
10 14	-77 38	-77	600	'10 14 24.0	-77	39.5	8.0	✓			
8 48	-78 38	-78	378	✓8 47 24.0	-78	36.7	6.7	✓	8	46.6 – 78 43	50
8 47	-78 37	-78	375	'8 46 0.0	-78	35.6	7.6	✓			
8 45	-78 31	-78	372	'8 45 29.0	-78	30.6	5.8	✓	8	44.7 – 78 37	50
8 33	-78 30	-78	349	✓8 33 26.0	-78	30.0	8.7	✓			
8 13	-78 20	-78	297	✓8 13 16.0	-78	19.2	8.3	✓			
7 46	-78 3	-78	273	✓7 46 0.0	-78	5.2	6.2	✓	7	44.9 – 78 9	54
7 37	-77 48	-77	319	✓7 37 57.5	-77	48.3	8.0	✓			
10 24	-77 57	-77	611	'10 24 49.0	-77	57.6	8.0	✓			
10 14	-78 22	-78	529	✓10 13 47.0	-78	22.8	7.5	✓			
10 5	-78 28	-78	509	✓10 5 36.0	-78	27.2	7.7	✓			
9 27	-78 32	-78	446	✓9 27 30	-78	31.8	7.7	✓	9	26.7 – 78 39	54
9 20	-78 37	-78	438	✓9 21 1.0	-78	36.2	8.7	✓			
9 14	-78 50	-78	424	✓9 14 4.0	-78	50.5	7.9	✓			
9 5	-78 56	-78	411	✓9 5 6.0	-78	57.5	8.4	✓			
8 50	-79 0	-79	352	✓8 50 25.0	-79	2.4	7.7	✓	8	49.7 – 79 ? 8	50
8 20	-78 56	-78	315	✓8 20 35.0	-78	55.6	7.4	✓			

353 duplicated ?

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	R.	H.	Cl	Rem.	L.	K.	Int	Br	Photom. Magn.	Diff.	
✓	12.9	19.6	G		K	10	1	4.01			8
✓	13.5	7.4	A		E	N	1	3.90			10
✓	13.3	10.1	H		K	10	2	3.74 4.20			9
✓	13.3	15.8	G		K	10	1	4.18			8
✓	13.9	22.8	K		K	10	3	2.52 3.12	5.42	2.90	7
✓	14.3	9.7	A		L	N	3	2.23	6.54	4.31	9
✓	14.8	10.7	A		E	N	1	3.85			9
✓	14.7	10.9	A		G	N	2	3.59			9
✓	14.8	11.5	A		E	N	1	4.25			9
✓	14.6	12.3	H		K	10	2	3.72 4.15	7.62	3.90	9
✓	14.7	12.6	A		E	N	1	3.99	8.67		9
✓	14.1	14.3	A		E	N	1	4.00			9
✓	14.2	16.3	H		E	N	1	3.80 4.40	7.06	3.26	8
✓	14.2	23.0	H		E	N	1	4.17 F			9
✓	14.6	5.3	A		G	N	2	3.43			10
✓	15.2	5.2	A		X	N	4	1.80	6.18	4.38	10
Is this at G1? ✓	16.0	5.1	A		E	N	1	3.95			10
✓	15.7	11.4	A	5012.3	M	K	4	0.23	5.24	5.01	9
✓	16.4	12.1	Fe	5013.4	L	10	3	1.30	5.44	4.14	9
✓	15.8	16.8	K		K	10	2	1.88 2.50	5.60	3.72	8
✓	15.4	17.1	A		E	N	1	4.15			8
✓	15.2	23.8	A		G	N	2	3.44			7
✓	16.5	5.5	G5K		K	10	3	2.02 2.40	5.48	3.46	10
✓	16.6	5.6	A		λ	N	5	B	4.62	B	10
✓	16.3	6.4	Fe	5015	K	10	2	2.84	7.02	4.18	10
✓	16.5	8.0	A		E	N	1	4.10			10
✓	16.3	11.7	A		G	N	2	3.53	8.02		9
✓	17.6	5.6	A		E	N	2	3.41	8.31		10
✓	17.4	7.0	A		G	N	2	3.07	7.93		10

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1875 Approx.	C.P.D. Design.	1875 R.A.	1875 Dec.	Magn.	R.A. 1900	Dec. 1900				
8 51	-78° 48	-78 28	4 8	6	37.0	-78 48.1	8.0	✓		
10 13	-78 45	-78 52	7 10	13	19.0	-78 44.3	8.1	✓		
9 45	-79 21	-79 44	8 9	44	57.0	-79 1.0	8.4	✓		
8 45	-79 13	-79 34	0 8	45	8.0	-79 13.0	8.K	✓		
7 32	-78 50	-78 26	5 7	32	27.0	-78 49.9	6.7	✓ 7	31.2 - 78	53 50
9 53	-79 30	-79 45	7 9	52	47.0	-79 28.2	6.9	✓ 9	52.5 - 79	35 54
9 43	-79 48	-79 44	6 9	42	28.0	-79 49.0	8.4	✓		
9 41	-79 47	-79 43	6 9	40	41.0	-79 46.9	7.8	✓		
9 34	-79 49	-79 42	2 9	33	51.0	-79 49.6	9.0	✓		
9 24	-79 52	-79 40	6 9	24	29.0	-79 51.4	8.4	✓ 9	23.8 - 79	57 54
9 21	-79 54	-79 40	2 9	21	35.0	-79 54.3	8.5	✓ 9	20.8 - 80	0 54
9 1	-79 48	-79 37	1 9	1	26.0	-79 38.9	8.0	✓		
8 39	-79 47	-79 32	7 8	39	24.0	-79 43.1	8.4	✓ 8	38.3 - 79	48 54
9 28	-78 56	-78 26	1 9	28	39.0	-78 54.9	8.6	✓		
10 37	-78 52	-78 57	0 10	37	12.0	-78 51.6	7.7	✓		
10 41	-79 8	-79 54	8 10	40	32.0	-79 7.8	6.0	✓ 10	40.8 - 79	16 50
10 36	-79 38	-79 53	9 10	35	19.0	-79 38.9	8.4	✓		Correct if 6.1 was intended
9 38	-80 22	-80 36	5 9	37	28	-80 22.7	5.2	✓ 9	36.8 - 80	30 50
9 28	-80 15	-80 35	0 9	28	14	-80 17.8	6.1	✓ 9	27.5 - 80	22 50
8 32	-80 30	80 25	8 8	31	38	-80 30.2	7.4	✓ 8	30.3 - 80	35 50
8 28	-80 18	-80 25	2 8	28	29	-80 17.8	8.8	✓		
7 17	-79 14	-79 24	3 7	17	60	-79 12.9	7.2	✓		
10 43	-79 50	-79 55	4 10	44	1.0	-79 48.5	7.2	✓ 10	44.4 - 79	57 50
10 44	-79 53	-79 55	6 10	44	36.0	-79 52.8	4.8	✓ 10	44.8 - 80	1 50
10 33	-79 52	-79 52	9 10	33	28.0	-79 52.3	7.4	✓ 10	33.6 - 80	0 54
10 18	-80 18	-80 44	6 10	18	6	-80 17.8	8.5	✓		
9 33	-80 39	-80 35	9 9	33	38	-80 40.1	8.3	✓ 9	32.9 - 80	47 54
10 48	-80 17	-80 49	0 10	48	44	-80 16.3	8.0	✓ 10	49.0 - 80	24 54
10 33	-80 32	-80 46	8 10	32	54	-80 31.0	7.6	✓ 10	32.9 - 80	39 54

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	R.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photom. Magn.	Diff.	
✓	17.1	7.3	K		K	10	1	{3.40 3.98	7.53		10
✓	18.0	7.9	H		E	n	1	{3.98 F			10
✓	17.9	8.1	A		E	n	1	3.96			10
✓	18.0	8.3	A		S	5	2	2.50	7.30	4.80	10
✓	17.4	9.3	G		K	10	3	{2.50 2.90	6.60	4.10	10
✓	17.4	9.8	H		E	n	1	{4.03 F	8.66	4.63	10
✓	17.9	10.0	A		E	n	1	3.70	8.38	4.78	10
✓	17.3	11.2	G5 K		K	10	2	{2.80 3.15	6.76		9
✓	17.4	11.3	A		E	n	2	3.75	8.58		9
✓	17.3	12.0	A		E	n	1	3.90	8.63		9
✓	17.3	13.1	F	5016	K	10	1	3.17	7.67		9
✓	17.8	19.2	A		n	4	3	2.27	6.93	4.66	7
✓	18.0	21.7	A		E	n	1	3.78	8.45		7
✓	19.0	5.6	G		K	10	2	2.30	6.67	4.37	10
✓	18.3	7.4	H		K	10	2	{3.13 3.70	7.50	4.37	10
✓	18.8	7.7	A		O	n	3	2.17	7.02	4.85	10
✓	18.6	9.9	A		λ	n	4	0.86	5.62	4.76	10
✓	18.4	12.0	A		n	n	2	2.30	7.72	5.42	9
✓	18.2	13.0	A		E	n	1	3.51			9
✓	18.4	13.5	F	5017	K	10	2	3.25	7.84	4.59	9
✓	18.1	14.4	A		E	n	1	3.78			9
✓	18.9	15.6	F2 G		S	10	3	1.63	6.86	5.23	8
✓	18.5	19.1	A		S	5	2	2.72	7.84	5.12	7
✓	18.9	20.2	A		E	n	1	3.96			7
✓	18.2	22.4	H		E	n	1	{4.18 F	7.98		7
✓	18.9	23.8	H		E	n	1	{3.79 4.25	7.35	3.56	6
✓	18.7	24.5	A		O	n	3	1.80	5.64	3.84	6
✓	19.9	10.8	F	5018	K	10	1	3.18	8.29		9
✓	19.5	11.3	A		n	n	2	2.97	8.20	5.23	9

2 others not measured

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1903phae.proj..897F

1875		C.P.D.		1875	1875								
Approx		Design.		R.A.	Dec.	Mag.	R.A. 1900		Dec. 1900				
h m				h m s			h m s						
10 28	-80° 27	-80	462	10 28 49	-80	25.1	8.4	✓	10	28.8	-80	33	54
		~~-80~~	~~461~~	~~10 28 29~~	~~-80~~	~~25.2~~	~~9.4~~						
10 25	-80 54	-80	459	10 25 1	-80	54.3	8.9	✓					
10 22	-80 54	-80	453	10 22 14	-80	55.4	8.4	✓					
10 21	-81 0	-81	432	10 21 33	-81	1.0	7.3	✓	10	21.3	-81	9	54
10 6	-80 56	-80	423	10 6 27	-80	57.4	7.8	✓	10	6.1	-81	4	50
10 0	-80 59	-80	403	9 59 51	-80	58.9	8.9	✓	9	59.4	-81	6	54
10 0	-81 15	-81	390	9 59 58	-81	14.2	8.4	✓	9	59.4	-81	21	54
9 42	-81 8	-81	365	9 42 33	-81	8.3	7.9	✓	9	41.8	-81	15	54
9 41	-81 10	-81	363	9 41 29	-81	10.7	8.2	✓	9	40.7	-81	18	54
9 33	-81 10	-81	346	9 32 25	-81	9.0	8.4	✓	9	31.5	-81	16	54
9 18	-81 15	-81	312	9 18 21	-81	14.7	8.1	✓	9	17.3	-81	21	54
7 56	-81 17	-81	237	7 57 24	-81	16.2	6.5	✓	7	55.5	-81	20	54
7 24	-80 58	-80	220	7 25 18	-80	59.1	8.2	✓	7	23.3	-81	2	54
10 58	-80 55	-80	509	10 57 43	-80	53.2	7.4	✓	10	58.1	-81	1	50
10 32	-80 59	-80	467	10 32 ~~54~~ 3	-80	~~37.0~~ 58.1	~~7.6~~ 8.1	✓	10	32.8	-81	6	54
10 32	-81 18	-81	449	10 32 33	-81	16.5	7.1	✓	10	32.4	-81	25	50
		-81	448	10 32 16	-81	16.9	9.0						
10 4	-81 36	-81	399	10 3 58	-81	36.6	6.3	✓	10	3.4	-81	44	50
9 35	-81 41	-81	351	9 35 7	-81	42.4	7.6	✓	9	34.2	-81	49	54
9 21	-81 42	-81	318	9 20 28	-81	41.6	8.4	✓					
9 15	-81 48	-81	302	9 14 46	-81	48.5	8.0	✓	9	13.5	-81	55	54
9 2	-81 43	-81	293	9 1 20	-81	43.1	8.6	✓					
8 44	-82 7	-82	269	8 43 55	-82	7.5	7.3	✓	8	42.2	-82	13	54
7 56	-81 38	-81	236	7 55 57	-81	38.6	7.2	✓	7	53.9	-81	43	54
7 15	-81 16	-81	214	7 15 47	-81	17.4	8.2	✓					
7 6	-80 38	-80	209	7 5 47	-80	39.4	8.6	✓	7	3.8	-80	41	54 Correct if 234 was intended
6 59	-80 53	-80	201	6 58 20	-80	54.5	8.7	✓	6	56.3	-80	57	54
6 52	-80 40	-80	191	6 50 25	-80	40.8	6.0	✓	6	48.4	-80	42	50
9 56	-82 20	-82	363	9 55 42	-82	19.1	8.3	✓	9	54.8	-82	26	54
9 48	-82 14	-82	351	9 47 48	-82	12.6	8.2	✓	9	47.0	-82	20	54

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1903phae.proj..897F

Aug. 5, 1903

Plate B. 8990

	V.	H	Cl.	Rem.	L.	K.	Int.	Br.	Photom. Magn.	Diff.	
2s this not 13.4?	19.5	14.4	A		E	N	1	3.70			9
	19.8	19.1	H		K	10	2	{3.22 3.85}	7.58	4.56	7
	19.3	19.1	H		K	10	2	{3.25 3.90}	7.88	4.63	7
	19.5	19.9	A		E	N	1	3.55			7
	20.7	6.6	A		O	N	2	2.61	7.53	4.92	10
	20.2	9.2	95 H		K	10	3	{2.28 2.70}	6.71	4.43	10
	21.1	13.4	H		K	10	2	{2.70 3.45}	7.81	5.11	9
	21.7	17.5	A		η	N	2	2.60	8.39		8
	22.0	21.8	A		ε	N	2	3.20	7.63		7
	22.3	10.6	F	5019	K	10	2	2.72	7.31	4.59	10
	22.4	13.5	A		E	N	1	3.62			9
	23.0	13.1	H		K	10	2	{2.50 3.37}	7.15	4.65	9
	22.9	13.3	H		K	10	1	{2.87 3.84}	7.85	4.98	9
	22.0	15.6	A		E	N	2	3.27			8
	22.6	15.6	A		E	N	2	3.30			8
	22.9	16.1	H		E	N	1	{4.07 Fe}			8
	22.9	16.3	H		E	N	1	{3.40 3.90}			8
	22.9	19.4	H		E	N	1	{4.00 Fe}			7
	22.9	20.2	H		K	10	2	{3.48 3.90}	7.59	4.11	7
2s this not 6.7?	24.4	5.7	A H		E	N	1	{3.91			11
	24.2	2.5	A		ι	N	3	1.95	6.26		11
	24.1	13.9	H		E	N	1	{4.07 Fe}			9
	23.9	19.0	A		O	N	2	3.13	7.64	4.51	7
9.35 P.M.	23.8	20.5	F	5020	K	10	1	3.42	7.75		7

10.10 P.M.

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1875 Approx.		C.P.D. Design.		1875 R.A.	Dec.	Magn.	1875 R.A. 1900	Dec. 1900				
9 16	-82	19	-82°312	9 16 52	-82°	20.3	8.6	✓				correct if 13.4 intended?
7 52	-82	15	-82 215	7 52 26	-82	16.3	8.4	✓	7	50.1	-82 20	54
7 53	-82	21	-82 216	7 53 34	-82	1.5	8.3	✓	7	51.4	-82 6	54
7 42	-81	58	-81 229	7 42 55	-81	57.9	8.4	✓				
10 58	-81	55	-81 478	10 57 24	-81	54.6	7.5	✓	10	57.6	-82 3	54
10 21	-82	18	-82 396	10 20 51	-82	16.8	8.1	✓	10	20.4	-82 25	54
9 20	-83	14	-83 289	9 20 19	-83	13.1	8.2	✓	9	18.5	-83 19	54
8 7	-83	21	-83 203	8 23	-83	22.4	7.9	✓	8	5.6	-83 26	54
7 0	-82	43	-82 161	7 0 17	-82	44.2	8.2	✓	6	57.4	-82 46	54
~~8 3~~	~~-83~~	~~335~~	~~10 50~~		~~-83~~	~~28.5~~	~~10.0~~					
10 10	-83	27	-83 336	10 11 16	-83	28.5	7.4	✓	10	10.4	-83 35	54 double.
9 20	-83	48	-83 286	9 19 31	-83	50.1	8.9	✓				
			-83 287	9 19 47	-83	49.4	9.3					
9 27	-84	7	-84 219	9 28 24	-84	7.4	8.2	✓	9	26.3	-84 14	54
9 26	-84	5	-84 216	9 26 19	-84	5.5	8.4	✓	9	24.2	-84 12	54
8 42	-83	38	-83 238	8 42 0	-83	39.2	7.9	✓				
8 40	-83	54	-83 234	8 40 32	-83	55.9	8.4	✓				
8 30	-84	0	-83 222	8 30 17	-83	59.4	8.6	✓				
8 25	-84	3	-84 174	8 26 30	-84	3.0	8.7	✓				
7 30	-83	41	-83 165	7 30 55	-83	40.7	9.1	✓				
7 18	-83	32	-83 151	7 17 19	-83	33.1	8.4	✓	7	13.9	-83 36	54
11 26	-83	24	-83 417	11 27 14	-83	24.4	8.0	✓				correct if 6.7 intended?
11 0	-83	54	-83 386	11 0 5	-83	55.4	6.5	✓	11	0.0	-84 3	50
9 15	-84	38	-84 211	9 15 47	-84	39.6	8.4	✓				
7 31	-84	15	-84 132	7 31 38	-84	13.5	7.2	✓	7	27.8	-84 17	54
7 5	-83	48	-83 142	7 5 9	-83	49.6	7.9	✓	7	1.4	-83 52	54

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Sept. 14, 1903

Plate B8570 9.15 P.M.

8.10 P.M.

	V.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photom. Magn.	Diff.	
√	4.5	7.4	A		O	N	2	3.29	6.60	3.31	2
√	4.0	9.2	A		η	N	1	4.07			2
√	4.2	9.9	A		ι	N	2	3.13	6.36	3.23	2
√	4.1	13.8	F	5200	K	10	1	4.30	7.61	3.31	2
√	4.1	18.2	H		ε	N	1	4.48 F	7.76	3.28	1
√	4.7	23.6	Ma		K	10	2	3.95 4.36	5.82	1.87	1
Do not see	√	6.5	10.0	F	5201	η	10	2	3.92			2
	√	6.6	10.1	H		K	10	1	4.11 4.30			2
	√	6.2	16.1	F	5202	K	10	2	3.82			1
	√	6.1	16.4	K		K	12	2	3.57 3.79	6.43	2.86	1
	√	6.7	20.4	H		ε	N	1	4.03 4.40			1
	√	6.0	22.0	F2	G	K	10	1	4.24	7.31	3.07	1
	√	8.0	7.9	F	5203	K	10	1	4.03			2
	√	8.3	10.8	Mb		K	10	2	3.80 4.10	6.40	2.60	2
	√	7.5	13.4	H		ε	N	1	4.17 4.60			2
	√	7.1	14.1	G5	K	K	10	2	3.63 3.82	6.76	3.13	2
	√	7.7	15.7	Ma?		ε	N	1	4.48 F			1
	√	7.3	16.0	K		K	10	3	3.26 3.78	6.14	2.88	1
	√	8.6	20.3	H		ε	N	1	4.40 F			1
	√	8.7	21.7	~~Ma~~ A		ε	N	1	4.10			1
Do not see	√	6.7	23.5	A		O	N	2	3.39	7.05	3.66	1
22.9?		8.2	19.0	A		ε	N	1	4.26			1
	√	8.9	24.5	A		O	N	2	2.90	6.30		1
	√	9.2	7.9	F	5204	η	10	3	3.07	6.30	3.23	2
	√	9.6	8.1	H		ε	N	1	4.00 4.30	7.28	3.28	2
	√	9.0	10.2	A		ε	N	1	4.42			2
	√	9.0	19.4	F5	G	K	10	1	4.30			1
	√	9.8	20.7	F	5205	K	10	1	4.25			1
	√	9.6	23.0	H		ε	N	1	4.43 F			1

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1875	C.P.D.	1875	1875									
Approx	Design.	R.A.	Dec.	Mag.	R.A. 1900	Dec 1900	Vol.					
2h 38	−64 52	−64	192	2	36 50.0	−64 49.2	6.4	✓	2	37.3	−64 4.3	50
2 28	−64 36	−64	178	2	27 59.0	−64 35.9	7.5	✓				
2 25	−64 52	−64	174	2	25 8.0	−64 51.6	6.4	✓	2	25.8	−64 4.5	50
2 7	−64 57	−64	156	2	6 45.0	−64 56.8	7.8	✓	2	7.4	−64 5.0	54
1 46	−64 59	−65	152	1	46 43.0	−65 0.4	8.2	✓	1	46.8	−64 5.2	54
1 21	−65 0	−65	130	1	20 45.5	−65 1.4	7.5	✓	1	21.7	−64 5.3	50
2 2	−65 45	−65	165	2	1 15.5	−65 44.2	7.4	✓				Correct if 5.5 intended
2 26	−66 6	−66	140	2	25 26.8	−66 7.3	8.2	✓				
1 56	−66 4	−66	124	1	56 12.5	−66 3.5	7.4	✓				
1 54	−66 2	−66	123	1	54 29.0	−66 2.1	7.4	✓	1	55.2	−65 5.5	50
1 35	−66 15	−66	106	1	34 43.3	−66 14.5	7.6	✓				
1 27	−65 45	−65	135	1	27 4.0	−65 45.8	7.7	✓	1	27.9	−65 3.8	54
2 37	−66 41	−66	155	2	37 29.0	−66 39.0	7.6	✓				
2 23	−67 4	−67	154	2	22 51.5	−67 3.5	8.0	✓	2	23.4	−66 6.6	50
2 10	−66 45	−66	134	2	9 46.0	−66 44.3	7.9	✓				
2 4	−66 33	−66	130	2	3 52.0	−66 32.3	7.3	✓	2	4.5	−66 2.5	54
1 58	−66 58	−66	126	1	58 1.0	−66 57.1	8.5	✓				
1 56	−66 41	−66	125	1	56 24.0	−66 40.4	7.4	✓	1	57.1	−66 3.3	50
1 34	−67 12	−67	107	1	34 20.4	−67 11.6	8.6	✓				
1 27	−67 8	−67	95	1	27 6.0	−67 8.5	7.6	✓				too
1 18	−67 3	−67	89	1	17 37.5	−67 2.4	6.9	✓	1	18.4	−66 5.4	54 Correct if 8.7 intended
1 24	−67 4	−67	154	2	22 51.5	−67 3.5	8.0					Correct if 22.9 intended
1 12	−67 4	−67	81	1	12 43.0	−67 3.5	6.2	✓	1	13.6	−66 5.5	50
2 41	−67 16	−67	181	2	41 17.0	−67 14.5	6.6	✓	1	41.7 13.6	7 8 −66 5.5	50
2 37	−67 30	−67	173	2	37 23.0	−67 29.5	8.2	✓	2	37.8	−67 2.4	54
2 27	−67 19	−67	161	2	26 28.8	−67 19.4	8.2	✓				
1 39	−67 28	−67	112	1	38 48.5	−67 28.2	8.1	✓				
1 32	−67 47	−67	102	1	31 23.0	−67 46.5	7.8	✓				
1 19	−67 30	−67	91	1	19 2.0	−67 31.3	8.7	✓				

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Sept. 14, 1903

Plate B 8570

	V.	H.	Cl	Rem.	L.	K.	Int.	Bz.	Photom. Magn.	Diff.	
√	11.0	6.2	G2K		K	10	2	{3.70 3.98	6.70	3.00	
√	10.5	6.8	F	5206	K	10	1	4.04			
√	11.0	7.2	A		λ	1	4	1.60	4.90	3.30	
√	10.2	8.5	G5K		K	10	2	{3.66 3.93			
√	10.9	11 8.0	A8F	5207	H	10	2	3.77			
√	10.6	12.2	F	5208	K	10	1	4.31			
√	10.5	12.9	K		K	12	3	{3.12 3.60	5.52	2.40	
√	10.8	13.2	K5M		K	10	2	{3.14 3.62	6.44	2.30	
√	10.4	16.8	K			12	3	{2.29 2.53	4.72	2.43	
√	11.0	17.2	A		O	N	2	3.08			
√	10.7	19.4	A		E	N	1	4.50			
√	10.3	24.0	H		E	N	1	{4.23 F			
√	10.9	24.2	F	5209	K	10	2	3.59	6.91	3.32	
√	12.0	8.4	A		V	N	4	1.10	4.26	3.16	
√	11.3	10.0	H		K	10	2	{3.85 4.07			
√	11.4	12.1	A8F	5210	H	10	2	3.52			
√	11.7	14.9	H		E	N	1	{4.35 F			
√	11.9	16.6	G5K		K	10	2	{3.84 4.11			
√	11.9	21.6	Ma		E	N	1	{4.22 F			
√	13.0	8.2	F	5211	K	10	1	4.29			
√	12.6	10.3	H		E	N	1	{4.30 F			
√	12.5	11.0	H		E	N	1	{4.28 F			
√	12.4	11.8	A		V	2	4	1.03	4.26	3.23	
√	14.0	8.1	G5K		K	10	2	{3.52 3.79	6.70	3.18	
√	14.0	8.6	G		K	10	3	3.32	6.66	3.34	
√	14.0	13.0	G		K	10	1	4.01	7.55	3.54	
√	13.9	22.4	H		E	N	1	{4.13 F	7.66	3.53	
√	13.6	23.0	F	5212	K	10	2	3.50			
√	13.6	23.7	F	5213	K	10	3	2.13	4.96	2.83	

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Appeared C.P.D. 1875 1875

1875	Design.	R.A.	Dec.	Mag.	R.A. 1900	Dec. 1900				
2h 49m	-68°	4	-68° 17.2	2	49m 4.0	-68°	2.1	7.1	✓	2 49.5 -67 55 54
2 45	-67	48	-67 18.8	2	45 5.0	-67	4.9	7.6	✓	
2 44	-68	10	-68 16.9	2	43 37.5	-68	8.5	5.1	✓	2 44.0 -68 3 50
2 35	-67	52	-67 17.0	2	35 50.0	-67	50.4	6.8	✓	
2 23	-68	20	-68 14.4	2	23 9.2	-68	19.8	7.6	✓	
2 18	-68	15	-68 13.3	2	17 1.0	-68	15.8	8.0	✓	
2 13	-68	19	-68 12.8	2	12 52.6	-68	19.6	7.0	✓	2 13.4 -68 13 50
2 12	-68	24	-68 12.6	2	11 38.6	-68	25.6	6.8	✓	2 12.1 -68 19 50
1 52	-68	15	-68 10.1	1	51 47.2	-68	15.8	6.2	✓	1 52.1 -68 9 50
1 48	-68	33	-68 9.6	1	49 25.3	-68	33.6	6.6	✓	
1 37	-68	18	-68 7.7	1	37 38.0	-68	17.7	8.1	✓	
1 13	-67	46	-67 8.4	1	13 35.6	-67	46.3	7.8	✓	
1 12	-68	6	-68 4.7	1	12 12.3	-68	5.6	7.2	✓	1 13.1 -67 58 54
2 38	-68	48	-68 16.1	2	37 41.0	-68	48.2	3.6	✓	2 38.1 -68 42 50
2 29	-68	33	-68 15.1	2	29 1.2	-68	31.2	7.6	✓	
2 18	-68	40	-68 13.4	2	17 23.0	-68	39.5	6.7	✓	
2 3	-68	54	-68 11.3	2	2 16.5	-68	53.9	8.7	✓	
1 53	-69	0	-69 8.7	1	52 55.0	-69	0.4	7.6	✓	
1 25	-68	48	-68 5.9	1	24 55.5	-68	49.2	7.9	✓	
2 39	-69	14	-69 14.0	2	39 58.4	-69	13.1	8.1	✓	
2 27	-69	10	-69 12.7	2	27 58.4	-69	9.7	8.6	✓	
2 24	-69	12	-69 12.1	2	24 14.4	-69	11.7	8.2	✓	
2 19	-69	15	-69 11.3	2	19 30.4	-69	13.8	3.6	✓	2 20.0 -69 7 50
2 42	-69	42	-69 14.2	2	41 49.7	-69	41.4	7.4	✓	2 42.1 -69 35 54
			-69 14.3	2	41 52.9	-69	40.7	8.6		
2 39	-69	45	-69 13.8	2	39 0.7	-69	45.9	6.8	✓	2 39.3 -69 40 54
2 13	-70	0	-70 13.6	2	13 35.2	-70	0.9	7.8	✓	2 14.0 -69 54 54
1 19	-69	45	-69 5.5	1	18 55.3	-69	44.1	8.0	✓	1 19.7 -69 36 54
1 16	-69	33	-69 5.3	1	15 47.3	-69	33.5	7.2	✓	
1 11	-69	32	-69 4.5	1	11 31.3	-69	32.4	5.2	✓	1 12.4 -69 24 50

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	R. A.	Dec.	Rem.	L.	K.	Int.	Ba.	Photom. Magn.	Diff.	
√	13.6	23.9	H	ε	n	1	{3.84 4.20			1
√	14.6	8.1	Q	ε	n	1	4.16	8.33	4.17	2
√	14.3	10.9	Mb	ε	n	1	{4.30 F	7.28	2.98	2
√	14.2	16.8	H	ε	n	1	{4.38 F			1
√	14.6	17.8	H	ε	n	1	{4.50 F			1
√	14.9	17.9	H	ε	n	1	{4.31 F			1
√	15.4	8.8	H	ε	n	1	{4.30 F			2
√	15.6	10.2	H	ε	n	1	{4.48 F			2
√	15.4	11.4	Q δ F 5214	η		10	2	3.80		2
√	15.8	13.0	Q	ε	n	1	4.35			2
√	15.8	15.3	K	K		10	2	{3.74 4.13	6.88	2
√	15.1	22.3	F 2 G	K		10	2	3.16		1
√	16.3	7.4	Q	ε	n	1	4.19			3
√	16.8	9.3	K	K		10	2	{3.07 4.07	6.69	3.12 2
√	16.8	10.1	H	ε	n	1	{4.30 F			2
√	16.5	10.8	H	ε	n	1	{4.32 F			2
√	16.5	12.6	Q	ε	n	1	4.17			2
√	16.9	12.8	K	K		10	2	{3.62 4.00		2
√	17.0	20.1	F 5215	K		10	2	3.98		1
√	17.0	21.6	F 5216	K		10	2	4.07		1
√	18.1	8.4	Q 2 F 5217	η		10	2	3.33	6.84	2
√	18.4	9.1	F 5 G	K		10	1	4.05		2
√	18.5	12.3	H	ε	n	1	{4.40 F			2
√	18.2	14.8	H	K		10	2	{3.87 4.10		2
√	18.3	16.3	Q	ε	n	1	4.39			1
√	18.8	20.7	G H	K		10	2	{3.89 4.12		1
√	17.7	23.3	H	ε	n	1	{4.46 F			1
√	19.9	6.1	Q	λ	n	3	2.03	5.52	3.49	3
√	19.6	7.0	H	ε	n	1	{4.10 4.50			2

Acept limit K 13.8

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1875 C.P.D. 1875 1875.

	Design	R.A.	Dec.	Magn.	R.A. 1900	Dec. 1900					
1 10	-69 29	-69 44	1 10	45.4	-69	28.9	7.7	✓					
2 42	-69 54	-69 144	2 41	57.7	-69	54.6	8.2	✓	2	42.3	-69	49	54
2 26	-70 6	-70 155	2 25	53.8	-70	5.1	8.0	✓	2	26.3	-69	58	54
1 51	-70 8	-70 100	1 51	18.1	-70	7.9	8.6	✓					
1 44	-70 20	-70 94	1 45	13.3	-70	21.0	8.8	✓					
1 44	-70 30	-70 93	1 44	32.3	-70	30.3	8.6	✓					
2 38	-70 28	-70 173	2 38	58.9	-70	27.2	8.5	✓					
2 31	-70 38	-70 167	2 30	54.3	-70	39.9	8.8	✓					
2 23	-70 40	-70 151	2 23	42.0	-70	39.8	7.6	✓					
2 14	-70 54	-70 137	2 14	21.0	-70	53.6	8.2	✓					
2 0	-71 0	-71 98	2 0	16.0	-71	1.4	7.6	✓	2	0.8	-70	54	54
1 18	-70 22	-70 64	1 18	12.2	-70	22.4	7.4	✓					
2 48	-70 45	-70 181	2 48	0.2	-70	44.1	7.7	✓					
2 37	-71 14	-71 154	2 37	37.0	-71	12.9	7.6	✓	2	37.8	-71	7	54
2 32	-71 19	-71 144	2 32	32.4	-71	18.8	8.4	✓					
2 28	-71 10	-71 135	2 28	6.4	-71	9.8	8.4	✓					
2 16	-71 15	-71 122	2 17	7.9	-71	15.1	8.1	✓					
2 10	-71 31	-71 110	2 9	56.5	-71	32.0	7.5	✓					Correct if 13.8 intended
1 30	-71 30	-71 69	1 30	18.2	-71	30.4	7.7	✓					
1 21	-71 20	-71 61	1 20	39.2	-71	19.6	7.9	✓					
2 44	-71 45	-71 165	2 44	39.7	-71	45.5	6.8	✓	2	44.9	-71	40	54
2 40	-72 0	-72 156	2 40	26.7	-72	59.5	7.8	✓					
2 20	-72 15	-72 176	2 20	13.5	-72	14.4	8.2	✓					
2 4	-72 12	-72 143	2 3	39.0	-72	12.2	7.5	✓					
1 54	-72 14	-72 130	1 53	54.1	-72	13.5	8.0	✓					
1 24	-72 20	-72 101	1 24	23.5	-72	21.1	7.8	✓					
1 9	-71 33	-71 50	1 9	20.5	-71	32.6	8.2	✓					
3 2	-72 24	-72 219	3 2	0.5	-72	23.5	5.6	✓	3	2.0	-72	18	50
2 56	-72 19	-72 214	2 55	45.2	-72	18.7	8.2	✓					

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	V.	H.	Cl.	Rem.	L.	K.	Int	Bz	Photom. Magn.	Diff.	
✓	20.0	10.6	F2G		H	10	3	3.29	6.96	3.67	2
✓	19.7	12.5	H		ε	H	1	{4.08 4.35			2
✓	20.0	14.8	H		ε	H	1	{4.40 F			2
✓	19.9	17.3	A		ε	H	2	3.47			1
✓	19.7	24.2	H		ε	H	1	{3.99 4.24	7.45		1
✓	20.7	10.1	A		ε	H	1	4.30			2
✓	20.2	10.6	F	5218	H	10	2	4.08			2
✓	20.5	10.7	F2G		K	10	2	3.92			2
✓	20.1	21.1	A8F	5219	G	10	2	3.81			1
✓	21.0	21.5	F	5220	K	10	2	3.78			1
✓	21.1	10.0	F2G		H	10	1	4.11			2
✓	21.7	11.3	A		ε	H	1	4.31			2
✓	21.7	12.7	H		ε	H	1	{4.38 F			2
✓	21.7	20.0	H		ε	H	1	{4.40 F			1
✓	21.0	20.6	A		ε	H	1	4.40			1
✓	21.6	21.3	A		ε	H	1	4.45			1
✓	21.8	22.9	A		η	H	2	3.48	7.18		1
✓	21.2	23.8	A		ε	H	1	4.40	8.18		1
✓	21.7	24.4	H		ε	H	1	{4.40 F	8.03		0
✓	22.8	7.9	A		ε	H	1	4.19			2
✓	22.3	12.4	K		H	12	3	{3.17 3.53	6.00	2.83	2
✓	22.6	16.9	A		ε	H	1	4.28			1
Two spectra superposed	✓	22.2	17.7	FeG			10	2	3.79			1
	✓	23.1	6.4	H		ε	H	1	{4.22 F			3
	✓	23.3	8.8	H		ε	H	1	{4.12 4.40			2
	✓	23.3	10.9	A		η	3	2	3.72			2
	✓	23.2	14.0	A		ε	H	1	4.17			2
	✓	24.0	14.0	G5H		K	10	2	{3.82 4.21	7.28		2
	✓	23.9	15.3	Ma		ε	H	1	{4.07 4.45	7.04	2.97	2

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1875 C.P.D. 1875 1875

Approx	Design	RA	Dec	Mag.	RA 1900	Dec 1900				
2h 33m	-72° 54	-72	191	2	32 47.3	-72	53.8	7.2	✓	2 33.0 -72 47 54
2 20	-72 51	-72	173	2	19 39.2	-72	52.8	9.0	✓	
2 8	-73 4	-73	145	2	8 23.7	-73	5.0	8.8	✓	
1 47	-73 1	-73	107	1	47 2.4	-73	2.0	7.5	✓	
1 6	-72 23	-72	83	1	1 1.0	-72	24.3	8.0	✓	1 1.8 -72 16 54
2 36	-73 15	-73	183	2	36 23.0	-73	13.1	8.3	✓	
2 32	-72 59	-72	190	2	32 16.3	-72	59.7	8.0	✓	
2 32	-73 14	-73	180	2	32 35.7	-73	13.1	7.9	✓	
		-73	178	2	32 8.4	-73	14.5	9.6		
1 21	-72 57	-72	98	1	20 42.5	-72	58.7	7.3	✓	
1 17	-73 24	-73	74	1	16 55.0	-73	24.2	7.2	✓	
2 38	-73 25	-73	185	2	37 43.0	-73	24.1	8.0	✓	
2 29	-73 48	-73	175	2	28 58.7	-73	48.7	8.6	✓	
2 19	-73 54	-73	161	2	19 41.4	-73	52.9	8.8	✓	
1 28	-73 50	-73	85	1	27 24.7	-73	49.1	8.8	✓	
1 23	-73 24	-73	80	1	23 29.5	-73	24.0	8.5	✓	
1 18	-73 42	-73	75	1	18 1.0	-73	41.2	8.6	✓	
1 6	-73 37	-73	67	1	6 19.0	-73	37.4	6.8	✓	1 7.0 -73 29 54
1 1	-73 14	-73	63	1	1 22.0	-73	13.0	8.0	✓	1 2.1 -73 5 54
0 56	-73 22	-73	59	0	56 48.0	-73	22.0	8.5	✓	0 57.6 -73 14 54
2 55	-73 58	-73	195	2	54 28.0	-73	57.4	7.8	✓	
2 22	-74 14	-74	194	2	22 8.2	-74	12.7	7.7	✓	2 22.2 -74 6 50
1 47	-74 22	-74	135	1	48 28.5	-74	23.4	8.2	✓	
1 43	-74 10	-74	126	1	43 9.0	-74	10.6	7.8	✓	
3 6	-73 59	-73	20	3	5 51.5	-73	57.1	7.8	✓	
2 49	-74 22	-74	232	2	48 54.0	-74	21.3	8.2	✓	
2 34	-74 33	-74	215	2	33 52.0	-74	34.1	7.2	✓	
2 11	-74 41	-74	180	2	10 52.0	-74	40.3	8.0	✓	
2 10	-75 5	-75	156	2	10 24.3	-75	5.2	7.8	✓	2 10.6 -74 58 54
2 0	-75 3	-75	144	2	0 37.0	-75	2.8	8.4	✓	2 0.8 -74 56 54

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Plate B 85-70

	V.	H.	Cl.	Rem.	L.	K	Int. Br.	Photom. Magn.	Diff.	
✓	23.6	22.2	F	5221	K	10	2	4.00			1
✓	24.0	12.3	H		E	N	1	4.10 4.30	7.97	3.87	2
✓	24.8	6.8	H		E	N	1	3.88 4.28	6.97	3.09	3
✓	24.0	10.1	H		E	N	1	4.50 F	8.20	3.70	2
✓	24.5	17.3	F-G		K	10	1	4.07			1

9.15 P. M

9.50 P. M.

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	1875	C.P.D.		R.O.	Dec.							
	approx	Design.		1875	1875		Magn.	R.A. 1900	Dec. 1900			
1	8m	− 74° 35′	−74 88	✓ 1	8 43.0	−74	34.3	7.3	✓			
2	24	− 75 0	−75 17.2	✓ 2	23 44.5	−75	0.1	8.0	✓	2	23.8 − 74	53 54
3	6	− 74 48	−74 23.9	✓ 3	5 51.0	−74	48.1	7.9	✓	3	5.6 − 74	42 54
2	41	− 74 52	−74 22.6	✓ 2	40 57.5	−74	51.2	8.7	✓	2	41.0 − 74	45 54
1	45	− 75 22	−75 12.3	✓ 1	44 58.8	−75	21.9	8.2	✓			

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Plate B 20133 Sept. 16, 8.20 P.M.

	V.	H.	Cl.	Rem.	L.	K	Int	Br.	Photom. Magn.	Diff.
9.50 P.M.	√5.6	9.5	F	5222	K	10	1	4.13	7.14	3.01
	√6.0	12.6	A		η	N	2	4.20	7.26	3.06
	√6.0	18.4	A		ε	N	1	4.50		
	√6.5	6.1	F5G		K	10	1	4.48	6.76	2.28
	√7.4	8.0	F	5223	K	10	1	4.41		
	√7.1	14.9	F	5224	K	10	2	4.34		
	√7.2	20.9	A		ε	N	1	4.50		
	√8.5	6.2	A		ε	N	1	4.43		
	√8.2	18.4	H		K	10	2	4.20 / 4.50	6.27	
	√8.6	19.3	A		Θ	3	2	3.80		
	√9.4	9.5	K		K	12	3	2.40 / 3.10	4.78	2.38
Is this not 138?	√10.9	12.8	F	5225	K	10	2	3.73	6.78	
	√10.2	14.3	A		ξ	N	2	4.03		
	√10.9	15.0	F	5226	K	10	1	4.42		
	√10.7	17.8	K	5226a	ε	N	1	4.28		
	√11.0	18.3	A		ε	N	1	4.50		
	√11.2	9.7	A		ε	N	1	4.42		
	√11.7	11.2	F2G		K	10	1	4.41		
	√11.1	11.3	A		Θ	N	2	4.13		
	√12.0	12.3	A		ξ	N	1	4.20		
	√11.8	14.7	F2G		K	10	2	3.81		
	√12.5	7.4	A5F	5227	Θ	10	2	2.85	6.15	3.30
	√12.1	8.9	H		ε	N	1	4.50 F	~~6.15~~	
	√12.3	9.1	H		ε	N	1	4.40 F		
	√12.7	10.7	H		ε	N	1	4.40 F		
	√12.5	16.2	A		η	N	2	4.12		
	√13.0	18.7	H		ε	N	1	4.40 F		
	√12.5	19.5	A		ξ	N	2	4.21		
	√12.9	21.6	F	5228	K	10	1	4.40		

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1875	C.P.D	1875 1875						
approx	Zeiger	R.A. Dec.	Mag.	R.A. 1900	Dec. 1900			
5h 12m -65° 20	-65 441	5 11m 31.5	-65°	19.3	7.0 ✓	5	11.6	-65 17 54
4 56 -65 17	-65 394	4 56 28.5	-65	12.4	6.6 ✓	4	56.6	-65 10 54
4 28 -65 38	-65 349	4 28 46.5	-65	38.8	7.9 ✓			
5 28 -65 30	-65 475	5 28 22.0	-65	32.7	7.1 ✓	5	28.5	-65 32 54
5 19 -66 12	-66 399	5 19 48.0	-66	10.8	7.3 ✓			
4 45 -66 18	-66 320	4 45 32.5	-66	17.9	7.5 ✓			
4 16 -66 13	-66 269	4 15 47.5	-66	13.0	8.0 ✓			
5 29 -66 32	-66 421	5 29 21.0	-66	31.9	7.7 ✓			
4 53 -66 52	-66 338	4 53 19.0	-66	52.5	8.0 ✓	4	53.3	-66 51 50
4 23 -67 2	-67 316	4 23 28.5	-67	1.5	6.8 ✓			
5 14 -67 20	-67 401	5 13 51.0	-67	19.5	6.3 ✓	5	13.9	-67 18 50
4 51 -68 17	-68 280	4 51 35.2	-68	16.7	7.6	4	51.5	-68 15 54 Correct if 13.8 intended
4 49 -67 56	-67 352	4 49 30	-67	55.6	7.6 ✓			
4 45 -68 15	-68 272	4 4 45	-68	14.9	7.9 ✓			
4 29 -68 9	-68 268	4 30 6.0	-68	9.4	8.1 ✓			
4 27 -68 16	-68 266	4 27 40.5	-68	16.3	8.6 ✓			
5 14 -68 11	-68 335	5 13 59.0	-68	9.7	8.4 ✓			
5 6 -68 33	-68 315	5 6 26.5	-68	34.9	8.6 ✓			
5 5 -68 15	-68 311	5 5 28.5	-68	15.1	8.1 ✓			
5 0 -68 45	-68 300	5 0 21.0	-68	45.7	8.3 ✓			
4 46 -68 45	-68 277	4 46 59.5	-68	45.9	7.7 ✓			
5 26 -68 43	-68 375	5 27 39.0	-68	43.2	7.5 ✓	5	27.6	-68 42 50
5 19 -68 36	-68 350	5 18 36.0	-68	35.5	8.6 +	~~5 27.5 -68 42~~		
5 18 -68 43	-68 347	5 18 11.5	-68	43.2	8.4 +			
5 9 -68 54	-68 322	5 9 16.0	68	54.9	neb. ✓			
	-68 323	5 9 21.0	-68	55.0	neb.			
4 38 -69 3	-69 284	4 38 35.0	-69	3.3	7.6 ✓			
4 24 -69 17	-69 273	4 24 49.0	-69	16.4	8.0 ✓			
4 20 -69 0	-69 253	4 20 7.5	-69	59.8	8.0 ✓			
4 8 -69 1	-69 242	4 8 28.0	-69	1.6	8.7 ✓			

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Sept. 14, 1902.

Plate B 20183

V.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photom. Magn.	Diff.	
√	13.8	12.1	F	5229	K	10	1	4.31	8.32	4.01
√	13.5	12.3	Q		E	N	1	4.50		
√	13.6	13.7	Q		E	N	1	4.30		
√	13.8	18.5	F	5230	K	10	1	4.24		
√	13.9	19.4	H		E	N	1	4.50 F	7.84	3.34
√	13.3	19.5	H		E	N	1	4.50 F		
√	13.5	22.6	H		E	N	1	4.35 F	7.52	3.17
√	14.0	10.3	H		E	N	1	4.50 F		
√	14.3	10.7	F	5231	K	10	1	4.40	8.86	
√	14.4	14.0	H		E	N	1	4.35 F	7.76	3.41
√	14.2	17.8	F	5232	K	10	1	4.35	8.42	4.07
√	14.9	18.2	F2G		K	10	2	4.31	7.92	3.61
√	14.3	19.1	G		K	10	1	4.37	8.56	4.19
√	14.6	19.9	G5K		K	10	2	4.00 4.30	7.42	3.42
√	15.9	9.7	Q		E	N	1	4.40		
√	16.0	12.3	F		K	10	2	3.96		
√	15.3	14.3	H		E	N	1	4.47 F		
√	15.8	19.1	H		E	N	1	4.47 F		
√	16.0	20.3	Q8F	5233	η	10	2	3.28	7.03	3.75
√	15.1	21.6	Q5F	5234	ξ	10	2	3.84	7.67	3.83
√	16.0	22.1	Q		E	N	1	4.26		
√	15.9	24.7	Q		E	N	2	3.47	7.56	4.09
√	17.0	7.7	Q		E	N	2	4.10		
√	16.5	13.0	K		K	10	2	3.92 4.07		
√	17.0	14.7	H		E	N	1	4.30 F		
√	16.5	15.2	Q		V	N	3	1.88	5.69	3.81
√	16.8	24.3	H		E	N	1	4.28 F		
√	17.7	6.8	Q		E	N	1	4.33		
√	17.2	7.4	F	5235	K	10	1	4.32		

10.30

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1875	C.P.D.		1875	1875								
Obsvr.	Design.		R.A.	Dec.	Mag.	R.A. 1900	Dec. 1900					
5	2	-69 40	-69	321	5	2 24.5	-69	40.1	8.5	✓	5	2.2 -69 38 54
5	1	-69 32	-69	320	5	1 14.0	-69	31.6	8.5	✓		
4	53	-69 36	-69	300	4	53 8.0	-69	36.3	8.6	✓		
4	25	-69 40	-69	275	4	25 30.5	-69	40.0	8.6	✓		
4	20	-69 42	-69	266	4	20 21.5	-69	41.4	8.8	✓	4	20.3 -69 38 54
4	20	-69 24	-69	265	4	20 20.0	-69	24.8	8.8	✓		
4	3	-69 16	-69	234	4	2 33.5	-69	17.2	8.6	✓	4	2.6 -69 13 54
5	13	-69 41	-69	340	5	12 23.5	-69	41.4	8.8	✓		
5	11	-69 52	-69	336	5	10 24.0	-69	52.1	8.6	✓	5	10.2 -69 50 54
4	52	-70 3	-70	321	4	51 36.8	-70	2.3	8.9	✓	4	51.4 -70 0 54
4	30	-69 54	-69	277	4	29 37.5	-69	52.9	8.2	✓	4	29.5 -69 50 54
4	26	-70 18	-70	300	4	26 22.0	-70	16.2	8.2	✓	4	26.3 -70 13 54
4	22	-69 54	-69	268	4	21 53.5	-69	54.3	8.3	✓	4	21.8 -69 50 54
4	17	-70 2	-70	290	4	17 13.0	-70	1.9	8.2	✓	4	17.1 -69 58 54
5	18	-70 36	-70	381	5	17 22.0	-70	35.1	8.5	✓		
5	2	-70 48	-70	350	5	1 57.0	-70	48.0	8.3	✓		
4	50	-70 29	-70	318	4	49 56.0	-70	28.1	8.6	✓		
4	21	-70 45	-70	294	4	21 6.0	-70	44.5	8.8	✓		
4	14	-70 45	-70	287	4	13 54.0	-70	44.0	7.7	✓	4	13.8 -70 40 54
4	6	-70 14	-70	276	4	6 23.5	-70	12.2	7.8	✓	4	6.3 -70 8 54
4	3	-70 36	-70	274	4	2 51.5	-70	36.8	8.3	✓	2	
3	48	-70 16	-70	257	3	47 44.0	-70	16.0	7.5	✓	3	47.7 -70 11 54
5	31	-70 56	-70	399	5	30 42.0	-70	55.1	8.3	✓		
4	58	-71 7	-71	301	4	58 14.5	-71	6.8	8.7	✓		
4	48	-71 20	-71	284	4	48 1.0	-71	19.5	8.5	✓		
4	44	-71 10	-71	282	4	44 18.0	-71	9.6	5.9	✓	4	44.0 -71 7 50
3	48	-70 45	-70	259	3	48 58.0	-70	44.1	8.1	✓		
5	37	-71 14	-71	355	5	36 58.0	-71	12.7	8.5	✓		
5	32	-71 2	-71	346	5	32 22.5	-71	0.5	8.5	✓		

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	V.	H.	Cl	Rem.	L.	K	Int. Br.	Photom. Magn.	Diff.
√	17.3	11.3	H		E	N	1	{4.20 F	
√	17.3	12.1	K			12	3	{2.57 2.97	5.30	2.73
√	17.7	15.3	G		K	10	1	4.23		
√	17.7	15.7	G		K	10	1	4.25		
17.8?	15.8	22.0	A		O	N	2	3.00	6.72	3.72
√	18.1	9.0	A		n	N	2	3.74		
√	18.1	9.3	A		E	N	1	4.36		
√	18.0	9.7	H		E	N	1	{4.33 F		
√	19.0	11.0	H		E	N	1	{4.38 F		
√	18.5	12.2	H		E	N	1	{4.40 F		
Do this ext 19.5?	19.0	18.2	H		K	10	1	{4.20 4.50		
√	19.7	9.1	A		n	N	2	3.85	~~6.18~~	~~2.33~~
√	19.5	13.6	H5	G	K	10	2	2.93	6.18	2.33
√	19.7	16.0	H		E	N	1	{4.40 F		
√	19.4	24.2	A		n	N	3	2.71	6.54	3.83
√	20.8	11.7	A		X	1	3	2.67	6.25	3.58
√	20.2	13.6	A		n	3	2	3.71	7.18	3.47
√	20.7	13.8	H	5236	K	10	1	4.20		
√	20.2	16.4	A		n	4	2	3.30	6.98	3.68
√	20.1	17.5	H		K	10	1	{4.20 F		
√	20.8	19.6	H	5237	K	10	1	3.87		
√	21.2	5.6	H		K	10	2	{3.58 4.14	6.51	2.93
√	21.0	7.9	A		E	N	1	4.30		
√	22.0	11.8	H		E	N	1	{4.32 F		
√	21.1	16.4	K		K	10	2	{3.82 4.20	6.72	2.90
	22.8	7.5	H	5236	K	10	2	3.68	6.74	
	22.0	10.5	~~A~~		O	N	2	3.93	6.56	3.63
	22.8	7.8	M		E	N	2	{3.62 4.13	5.61	1.99
	22.5	8.9	H		E	N	1	{4.11 F		
	22.6	9.6	H		E	N	1	{4.09 F		

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1875	C.P.D.	1875	1875									
After	Decln.	R.A.	Decl.		Mag.	R.A. 1900		Decl. 1900				
5 [illegible]	-71° 6	-71	3 15	5	8	45.0	-71°	25.5	8.8	✓		
5 4	-71 30	-71	309	5	4	20.0	-71	29.1	7.9	✓	5 4.0	-71 27 50
4 44	-71 44	-71	281	4	43	54.0	-71	43.5	8.1	✓		
4 41	-71 44	-71	278	4	41	28.0	-71	~~44.4~~ 30.9	~~7.9~~ 6.7	✓		
4 3	-70 36	-70	1 34 274	4	1 27.5	51.5	-70	~~36.8~~ 1 39.9	~~8.3~~ 6.7	✓	4 1.3	-71 27 54 Correct if 17.8 intended
5 24	-71 37	-71	335	5	24	16.0	-71	37.2	8.4	✓		
5 22	-71 39	-71	334	5	22	20.0	-71	39.0	8.8	✓		
5 20	-71 39	-71	330	5	19	15.0	-71	39.4	8.7	✓		
5 12	-72 15	-72	352	5	12	15.5	-72	13.3	8.9	✓		
5 4	-72 1	-72	343	5	4	15.0	-72	0.9	9.1	✓		
4 18	-72 18	-72	295	4	18	12.0	-72	18.0	8.4	✓		
5 25	-72 28	-72	372	5	25	03	-72	27.0	8.2	✓		
4 55	-72 36	-72	332	4	55	11.0	-72	36.8	7.1	✓	4 54.8	-72 35 50
4 39	-72 44	-72	314	4	39	13.5	-72	43.1	8.8	✓		
3 46	-72 3	-72	262	3	46	3.0	-72	2.7	6.2	✓	3 45.9	-71 58 54
5 9	-73 13	-73	286	5	8	40.0	-73	12.0	6.4	✓	5 8.2	-73 10 50
4 56	-72 57	-72	334	4	55	43.0	-72	57.7	7.7	✓	4 55.2	-72 56 54
4 54	-73 12	-73	280	4	54	23.0	-73	11.9	8.4	✓		
4 37	-73 0	-72	311	4	36	35.0	-72	59.2	7.4	✓	4 36.2	-72 56 54
4 29	-72 54	-72	304	4	28	48.5	-72	54.3	8.0	✓		
4 14	-73 7	-73	251	4	14	49.5	-73	8.0	7.5	✓		
5 50	-72 45	-72	418	5	50	20.7	-72	44.2	7.6	✓	5 49.8	-72 44 50
5 34	-72 57	-72	386	5	34	53.0	-72	54.8	8.3	✓		
5 9	-73 45	-73	288	5	8	49.0	-73	45.4	8.4	✓		
4 36	-73 28	-73	269	4	36	31.0	-73	27.6	8.0	✓	4 36.0	-73 25 54
5 40	-73 45	-73	323	5	40	30	-73	45.7	7.1	✓	5 39.5	-73 45 54
5 19	-73 44	-73	294	5	18	20.0	-73	43.2	7.0	✓	5 17.8	-73 41 54
5 38	-73 49	-73	316	5	37	51.0	-73	49.0	8.0	✓	5 37.3	-73 48 50
5 29	-73 45	-73	302	5	29	38.0	-73	45.8	8.3	✓		
5 25	-73 54	-73	296	5	25	39.0	-73	54.7	8.2	✓		

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	V.	H	cl.	Rem.	L.	K.	Int.	Br.	Photom. Magn.	Diff	
	√23.4	12.6	A		O	N	2	3.16	6.97	3.81	5
	√24.2	22.6	K?				4	1.27 2.57	~~3.17~~	1.90	3
8.20 P.M.	√24.0	23.2	A		E	N	1	4.07			3

9.00 P.M.

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1875 Approx	C.P.D. Design.	1875 R.A.	1875 Dec.	Mag.	R.A. 1900	Dec. 1900		
h m ° ′		h m s	° ′		h m	° ′		
5 4 -74 30	-74 312	5 4 25.0	-74 ° 30.8	7.1 ✓	5 3.7	-74 29	54	
3 49 -74 37	-74 276	3 49 11.0	-74 37.3	6.1 ✓	Do C.P.D. -74 275 superposed.			
3 45 -74 24	-74 271	3 45 11.0	-74 23.7	7.5 ✓	3 48.8	-74 33	50	

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9.00 P.M. Plate B9062 Sept. 18, 8.55 P.M.

	V.	H.	Cl.	Rem.	L.	K	Int.	Br.	Photom. Magn.	Diff.
✓	4.6	14.6	Fr	5239	K	10	1	4.22	7.04	2.82
✓	4.0	16.2	Fr	5240	K	10	1	4.20	6.62	2.42
✓	4.0	20.9	H		K	10	2	3.90 / 4.25	5.30	1.40
✓	4.4	22.2	A		E	N	1	4.42	7.54	3.12
✓	5.9	6.6	A		E	N	1	4.18	8.09	3.91
✓	5.9	8.2	A		E	N	2	3.61	7.74	4.13
Two stars superposed										
✓	5.9	12.4	Fe G		K	10	2	3.30		
✓	5.9	12.6	Ma		K	10	3	3.98 / 3.51	4.88	
✓	5.5	12.8	A		E	N	1	4.20		
✓	6.5	16.9	A		E	N	1	4.08	7.96	
✓	6.4	17.3	H		E	N	1	4.50 / F	7.61	
✓	6.3	6.3	F	5241	K	10	1	4.32		
Is distant 8.7	6.1	9.7	A5 F	5242	O	10	2	2.94	6.38	3.44
✓	6.3	9.9	Fr	5243	K	10	1	3.70		
✓	6.8	13.6	A		λ	N	3	2.00	5.83	3.83
✓	6.7	15.9	A		η	N	2	3.35		
✓	6.4	18.0	A		O	5	4	1.69	4.52	2.83
✓	6.4	21.4	G5 K		K	10	2	3.29 / 3.73	6.76	3.47
✓	7.4	7.1	H		K	10	2	3.69 / 4.12		
✓	7.1	8.7	H		E	N	1	4.20 / F		
✓	7.6	10.3	H		E	N	1	4.40 / F		
✓	7.3	11.7	A		O	N	2	3.07		
✓	7.2	12.1	H		E	N	1	4.03 / 4.50		
✓	7.4	15.5	H		E	N	1	4.36 / F		
✓	7.9	22.9	F	5244	K	10	2	3.63		
✓	8.3	6.2	A		E	N	2	3.63		
✓	8.6	8.7	Mb		E	N	1	4.10 / 4.85		
✓	8.3	11.7	A		E	N	1	4.22		
✓	8.1	12.1	F	5245	K	10	2	3.38		

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1875 Approx.	CPD Design.		1875 R.A.	1875 Dec.	Mag.		R.A. 1900	Dec. 1900	
6 2 - 64	52	-64° 512	6h 1m 25.5s	-64°	51.3	7.6	6 1.5	-64 51	54
5 53 - 64	30	-64 495	5 53 38.5	-64	30.2	6.7	5 53.7	-64 30	50
5 31 - 64	18	-64 456	5 32 18.5	-64	18.6	6.1	5 32.4	-64 18	50
5 26 - 64	35	-64 446	5 26 1.5	-64	25.6	7.0	5 26.1	-64 25	54
6 39 - 65	10	-65 636	6 39 13.0	-65	9.3	8.1	6 39.3	-65 10	54
6 31 - 65	15	-65 616	6 31 46.0	-65	13.3	8.0	6 31.9	-65 14	54
		-65 618	6 31 55.5	-65	16.3	8.0			
6 11 - 65	30	-65 565	6 11 52.5	-65	30.0	7.3			
		-65 566	6 11 57.0	-65	30.1	8.5			
6 11 - 65	33	-65 561	6 10 58.0	-65	33.6	6.7	6 11.1	-65 34	50
6 10 65	18	-65 557	6 9 46.0	-65	17.1	8.1			
5 50 - 65	18	-65 507	5 50 17.0	-65	17.3	7.9	5 50.4	-65 17	54
5 48 - 65	13	-65 504	5 48 11.5	-65	12.2	8.6	5 48.3	-65 12	54
6 41 - 65	21	-65 644	6 41 5.0	-65	20.4	7.9			
6 29 - 65	28	-65 610	6 29 42.0	-65	28.6	6.8	6 29.8	-65 30	50 Correct if 8.7 intended
6 24 - 65	36	-65 588	6 24 05	-65	36.2	8.1			
6 6 - 66	3	-66 493	6 6 0.5	-66	1.5	5.7	6 6.0	-66 1	50
5 54 - 66	54	-66 523	5 54 46.0	-66	54.0	7.8			
5 44 - 65	48	-65 496	5 44 31.5	-65	46.9	5.0	5 44.6	-65 46	50
5 28 - 65	33	-65 475	5 28 22.0	-65	32.7	7.1	5 28.5	-65 32	54
6 38 - 65	59	-65 631	6 38 11.7	-65	58.3	8.0			
6 30 - 65	57	-65 611	6 30 10.0	-65	56.0	8.2			
6 22 - 66	15	-66 529	6 22 33.0	-66	14.5	8.7			
6 15 - 66	15	-66 507	6 15 34.0	-66	14.7	7.3			
6 13 - 66	8	-66 505	6 13 48.5	-66	8.0	8.4			
5 56 - 66	18	-66 478	5 56 51.0	-66	18.9	8.9			
5 20 - 66	12	-66 399	5 19 48.0	-66	10.8	7.3			
6 43 - 66	22	-66 594	6 43 10.0	-66	22.2	8.1			
6 31 - 66	46	-66 558	6 31 4.0	-66	46.6	8.6			
6 16 - 66	43	-66 509	6 15 47.0	-66	42.5	8.5			
6 13 - 66	38	-66 504	6 13 43.5	-66	38.4	7.7			

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V.	H.	Cl.	Rem.	L.	K.	Int.	Bx.	Photom. Magn.	Diff.
✓8.6	16.8	A		O	N	4	1.71	5.15	3.44
✓8.2	17.2	H		E	N	1	{3.92 4.15		
✓8.9	16.7	A		η	N	1	3.70		
✓8.2	19.5	A		X	N	2	2.50	6.44	3.94
✓8.4	20.9	A		O	N	2	3.46		
✓9.5	7.9	H		E	N	1	{4.22 F		
✓9.2	13.5	K		K	10	2	{3.42 4.03		
✓9.5	13.6	H		E	N	1	{4.24 F		
✓9.3	14.2	A		η	2	2	2.98		
✓9.0	15.6	A		E	N	1	4.33		
✓9.3	18.2	F 5246		K	10	2	3.48		
✓9.7	18.3	A		ι	1	2	2.91		
✓9.2	18.8	F	5246	K	10	1	4.00		
✓10.7	6.4	A		E	N	1	4.07		
✓10.8	6.7	A		ι	N	3	2.41	6.86	4.45
✓10.0	7.7	A		E	N	1	4.12		
✓10.5	8.0	A		E	N	1	4.30		
✓10.1	8.8	A & F	5247	K	10	2	3 4.50		
✓10.0	15.6	H		E	N	1	{4.31 F		
✓10.8	15.6	H		E	N	1	{3.72 4.07		
✓10.3	17.4	A		E	N	2	3.43		
✓11.0	17.8	G & K		K	10	2	{3.60 3.78		
✓11.0	19.6	F & G		K	10	1	4.13		
✓10.2	23.7	K			12	3	{2.14 2.70	4.78	
✓10.7	X6.8	A		E	N	2	4.02		
✓11.1	8.7	F & G		K	10	2	3.40		
Two stars superposed ✓11.3	9.6	F	5248	K	10	1	3.81		
✓11.5	19.4	H		E	N	1	{3.89 4.15		
✓11.4	21.2	H		E	N	1	{4.01 4.35		
✓10.9	23.0	F & G		K	10	1	4.28		

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1875 Approx	C.P.D. Decln	1875 R.A.	1875 Dec.	Mag.			R.A. 1900	Dec. 1900
5 50	-66	57	-66°46	3	5 50 0.5	-66°	55.9	5.0	✓	5 50.0	-66 56 50
5 48	-66	38	-66 45	7	5 48 21.5	-66	39.9	8.7	✓		
5 50	-67	6	-67 51	6	5 50 31.0	-67	5.1	8.4	✓		
5 36	-66	38	-66 43	9	5 36 53.5	-66	37.8	5.7	✓	5 36.9	-66 37 50
5 29	-66	33	-66 42	1	5 29 21.0	-66	31.9	7.7	✓		
6 35	-67	6	-67 62	8	6 35 30.0	-67	7.1	8.8	✓		
6 7	-67	15	-67 55	7	6 7 6.0	-67	15.8	8.2	✓		
6 7	-67	24	-67 55	5	6 6 41.0	-67	24.1	9.1	✓		
6 3	-67	17	-67 54	9	6 3 23.5	-67	18.0	7.5	✓		
5 56	-67	6	-67 53	1	5 56 12.0	-67	5.1	8.8	✓		
5 43	-67	12	-67 49	6	5 42 53.0	-67	11.4	7.9	✓		
5 42	-67	27	-67 49	2	5 41 59.5	-67	27.6	7.0	✓		
5 39	-67	6	-67 48	6	5 39 44.3	-67	6.3	8.4	✓		
6 44	-67	34	-67 65	0	6 44 29.0	-67	34.1	8.5	✓		
6 43	-67	44	-67 64	5	6 42 43.0	-67	43.0	6.8	✓	6 42.6	-67 45 54
6 37	-67	22	-67 63	4	6 37 18.5	-67	21.4	8.6	✓		
6 36	-67	41	-67 63	0	6 35 59.0	-67	40.2	8.8	✓		
6 31	-67	30	-67 61	1	6 31 32.0	-67	29.2	8.4	✓		
5 56	-67	35	-67 53	0	5 55 50.5	-67	34.8	9.0	✓		
5 56	-68	4	-68 45	6	5 56 10.0	-68	3.8	8.6	✓		
5 46	-67	45	-67 50	9	5 46 29.0	-67	45.0	7.8	✓		
5 44	-68	7	-68 43	1	5 44 9.5	-68	7.9	8.3	✓		
5 34	-68	2	-68 38	8	5 34 17.5	-68	1.1	8.8	✓		
5 14	-67	18	-67 40	1	5 13 51.0	-67	19.5	6.3	✓	5 13.9	-67 18 50
6 43	-68	8	-68 55	6	6 42 53.0	-68	8.4	8.5	✓		
6 32	-68	2	-68 53	4	6 32 19.0	-68	1.3	8.2	✓		
6 28	-68	11	-68 52	6	6 27 54.5	-68	11.3	8.5	✓		
5 35	-68	17	-68 39	1	5 38 11.0	-68	16.9	8.9	✓		
5 25	-68	6	-68 36	9	5 25 29.5	-68	6.4	8.5	✓		
5 17	-67	41	-67 41	0	5 16 59.5	-67	40.3	8.7	✓		

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	V.	H.	Cl	Rem.	L.	K.	Int.	Br.	Photom. Magn.	Diff.
✓	12.1	8.3	A		E	N	1	4.10		
✓	12.3	8.9	Ma		E	N	1	4.15 / 4.32		
✓	12.8	9.2	A		O	N	2	3.29		
✓	13.0	11.4	F2 G			10	2	3.41		
✓	12.8	11.7	H		E	N	2	3.70 / 4.00		
✓	12.2	13.1	A		V	N	4	4.47	5.21	3.74
✓	12.4	17.9	H		E	N	1	3.99 / 4.15		
✓	12.4	18.1	K		E	N	2	3.65 / 4.00		
✓	13.0	18.5	2°	5249			2	3.29		
✓	12.5	20.7	A5 F	5250	R	10	3	2.23	6.15	3.92
✓	12.6	22.3	G		K	10	1	3.90		
✓	12.8	22.4	H		K	10	2	3.52 / 3.80		
✓	12.7	22.5	F	5251	K	10	1	4.20		
✓	12.0	22.8	F	5252	K	10	1	4.15		
✓	12.0	23.3	A		E	N	1	4.03		
✓	13.7	7.0	A		E	N	1	4.10		
✓	14.0	10.2	K			12	3	2.08 / 2.30	5.40	3.38
✓	13.1	12.4	A		G	N	2	3.47		
✓	14.0	13.2	H		E	N	1	4.35 / F		
✓	13.2	13.5	A		E	N	1	4.12		
	13.6	14.6	A		E	N	1	4.27		
✓	13.6	15.1	F	5253	K	10	2	3.56		
✓	14.0	19.1	A		G	N	2	3.74		
✓	13.1	24.5	F2 G		K	10	2	3.90		
✓	14.4	7.3	A		O	N	2	2.90		
✓	14.6	10.7	K		K	10	3	2.33 / 3.89	5.56	
✓	14.2	11.3	F5 G			12	2	3.02	6.94	3.92
✓	14.1	12.6	A		G	10	2	3.47	8.19	
✓	14.7	14.4	A		E	N	2	3.82	8.44	

14.0?

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1875 Approx	C.P.D. Design		1875 R.A.	1875 Dec.	Mag.	R.A. 1900	Dec. 1900				
6 35	-68° 28	-68° 54′	6 35 35.0	-68° 27′	8.6						
6 32	-68 36	-68 53	6 32 37.5	-68 35	8.9						
6 31	-68 50	-68 53	6 31 12.0	-68 51	7.8						
6 19	-69 7	-69 59	6 19 14.0	-69 6	7.8						
6 17	-69 2	-69 59	6 17 32.5	-69 1	8.0						
6 9	-68 48	-68 47	6 9 29.5	-68 49	5.1	6	9.3	-68	49	50	
5 42	-68 46	-68 42	5 42 45.5	-68 45	8.7						
5 41	-68 50	-68 41	8 41 49.5	-68 49	8.5						
5 39	-69 11	-69 45	6 5 39 35.6	-69 9	8 neb.						
5 27	-68 42	-68 37	5 27 39.0	-68 43	7.5	5	27.6	-68	42	50	
5 18	-68 36	-68 35	5 18 36.0	-68 35	8.6						
5 18	-68 43	-68 34	5 18 11.5	-68 43	8.4						
5 17	-68 36	-68 34	5 17 56.0	-68 36	8.7						
5 17	-68 16	-68 34	5 16 41.0	-68 16	8.7						
5 14	-68 10	-68 33	5 13 59.0	-68 9	8.4						
6 44	-69 11	-69 65	2 6 43 55.0	-69 10	8.4						
6 26	-69 37	-69 61	4 6 26 32.0	-69 37	6.9	6	26.3	-69	38	50	
6 13	-69 13	-69 58	2 6 13 35.0	-69 12	7.8						
6 9	-69 41	-69 57	5 6 8 56.5	-69 39	9.0						
6 7	-69 15	-69 57	2 6 7 16.5	-69 14	8.4						
		-69° 56	3 6 3 53.5	-69 25	8.9						Correct of 14.0 intended
5 58	-69 30	-69 54	9 5 58 16.0	-69 29	8.0						
5 35	-69 33	-69 39	6 5 35 43.5	-69 32	8.2						
5 6	-68 35	-68 31	5 5 6 26.5	-68 34	8.6						
6 43	-69 35	-68 64	9 6 43 43.5	-68 34	7.6						
6 23	-69 36	-69 60	7 6 23 49.0	-69 55	7.6	6	23.6	-69	56	50	
6 20	-69 44	-69 59	8 6 20 21.3	-69 43	7.2	6	20.2	-69	45	54	
6 12	-69 43	-69 58	0 6 12 30.0	-69 43	7.4	6	12.3	-69	44	54	
6 3	-70 7	-70 48	0 6 3 34.0	-70 0.8	8.8	6	2.3	-70	1	54	

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V.	H.	Cl.	Rem.	L.	K.	Int	Br.	Photom. Magn.	Diff.
√ 14.9	14.3	H		E	N	1	4.25 Fl		
√ 14.4	14.8	H		E	N	1	4.33 Fl	8.54	4.21
√ 14.5	16.1	F2G		K	10	2	3.41	7.76	4.35
√ 14.1	18.1	2?	5255 4			1	4.40		
√ 14.9	18.4	F5G		K	12	1	3 4.84	8.24	.40
√ 15.1	19.7	H		E	N	1	4.03 Fl	8.54	
√ 15.7 4	19.7	F	5255	K	10	1	4.08		
√ 14.8	23.0	H		E	N	2	3.80 4.40		
√ 14.5	23.3	H		E	N	1	4.25 Fl		
√ 14.2	23.5	F5G		K	10	1	4.18		
√ 14.0	24.5	H		E	N	1	3.92		
√ 16.2	6.0	G5K		K	10	2	3.05 3.30	6.68	
√ 15.9	7.0	G5K		K	10	3	2.45 2.80	5.88	3.43
√ 15.1	8.5	A		E	N	1	3.90	9.09	
√ 15.8	9.3	F2G		K	10	2	3.25		
√ 15.1	10.5	F	5256	K	10	2	3.36	7.89	
√ 15.4	12.8	H		E	N	1	4.30 Fl		
√ 15.2	12.9	A		E	N	1	4.30		
√ 15.6	13.6	A		E	N	1	4.40		
√ 15.7	16.4	F	5257	K	10	1	3.77		
√ 15.7	16.0	A		E	3	2	3.53		
√ 15.5	16.5	F	5258	K	10	1	3.88		
√ 15.1	17.2	H		K	10	2	3.66 3.96	8.34	
√ 15.8	18.3	F	5259	K	10	2	3.88		
√ 15.3	18.8	H		E	N	1	4.08 4.40		
√ 15.4	20.2	K		K	10	2	3.92 4.20	8.46	
√ 15.3	23.3	F	5260	K	10	1	4.00	8.86	
√ 15.3	24.7	A		E	N	2	3.48	8.32	
√ 16.4	6.3	A		E	N	3	2.74	7.22	

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1875		GPD.		1875	1875								
	Asphery	Design		RA	Dec.	Mag.		R.A. 1900	Dec. 1900				
6 52	-70°	1	-70	48	0 6	2	34.0	-70	0.8	8.2	✓		
60	-69	52	-69	55	4 5	59	43.0	-69	51.6	8.8	✓	5	59.5 -69 52 54
5 52	-69	56	-69	53	4 5	52	13.5	-69	55.6	7.8	✓	5	52.0 -69 56 54
			-69	53	5 5	52	17.5	-69	55.6	9.8			
5 40	-69	34	-69	46	4 5	39	52.7	-69	33.6	4.6	✓		
5 39	-70	0	-70	42	2 5	39	9.3	-70	1.9	8.6	✓	5	39.0 -70 1 54
5 31	-70	4	-70	40	1 5	31	13.0	-70	1.0	8.8	✓	5	31.0 -70 3 54
5 31	-69	52	-69	38	4 5	31	11.0	-69	52.4	8.7	✓		
5 12	-69	40	-69	34	0 5	12	23.5	-69	41.4	8.8	✓		
5 11	-69	30	-69	33	7 5	11	20.5	-69	28.1	9.1	✓		
5 10	-69	18	-69	33	4 5	10	13.0	-69	18.6	8.7	✓		
5 5	-69	4	-69	32	7 5	5	31.5	-69	3.9	8.8	✓		
6 51	-69	51	-69	66	5 6	51	27.5	-69	50.0	7.7	✓	6	51.3 -69 52 54
6 46	-70	184	-70	56	0 6	46	10.5	-70	17.8	7.7	✓	6	46.0 -70 20 50
6 36	-70	0	-70	63	8 6	36	55.2	-70	59.3	8.0	✓	6	36.7 -70 0 54
6 32	-70	27	-70	53	3 6	32	36.0	-70	25.1	7.8	✓		
6 25	-70	7	-70	51	5 6	25	20.0	-70	6.9	8.0	✓	6	25.0 -70 8 54
6 11	-70	21	-70	49	2 6	11	50.0	-70	20.0	9.0	✓		
6 10	-70	17	-70	49	1 6	10	56.0	-70	16.1	8.6	✓		
6 7	-70	28	-70	48	6 6	6	54.0	-70	26.7	8.8	✓		
5 56	-70	32	-70	47	2 5	56	21.0	-70	31.7	8.2	✓		
5 53	-70	30	-70	46	2 5	52	53.0	-70	38.2	8.1	✓		
5 49	-70	23	-70	45	1 5	49	43.0	-70	22.7	8.1	✓		
5 46	-70	14	-70	44	7 5	45	57.0	-70	13.7	8.6	✓	5	45.7 -70 14 54
5 39	-70	30	-70	42	1 5	39	0.5	-70	29.1	8.6	✓		
5 36	-70	15	-70	41	2 5	36	5.0	-70	14.9	9.1	✓		
5 28	-70	10	-70	39	3 5	27	53.0	-70	9.9	8.8	✓	5	27.7 -70 9 54
5 10	-69	52	-69	33	6 5	10	24.0	-69	52.1	8.6	✓	5	10.2 -69 50 54
5 2	-69	41	-69	32	1 5	2	24.5	-69	40.1	8.5	✓	5	2.2 -69 38 54
6 56	-70	20	-70	58	1 6	56	27.5	-70	19.4	6.8	✓	6	56.3 -70 21 54

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	V.	H.	Cl.	Rem.	L.	K	Int.	Br.	Photom. Magn.	Diff.	
Doubtful not 5.8	√	16.3	6.8	1K		K	10	2	3.25 3.80		
	√	16.2	6.9	1H		E	N	1	3.61 4.12		
	√	16.3	7.7	As F	5261	η	10	2	2.94		
	√	16.1	8.3	F2G		K	10	2	3.11		
	√	16.8	8.4	A		η	N	2	3.35		
	√	16.9	8.9	1H		E	N	1	4.27 F		
	√	16.6	10.7	A		η	1	2	3.27		
	√	16.8	13.1	A		E	N	1	4.08		
	√	16.7	14.1	F2G		K	10	1	4.28		
	√	17.0	14.6	1H		E	N	1	4.26 F		
	√	16.7	16.5	F	5262	K	10	1	4.23		
	√	16.9	19.3	F2G		K	10	2	3.51		
	√	16.7	19.6	A		Θ	N	2	3.19		
	√	16.9	19.7	F2G		K	10	1	3.76		
	√	17.0	21.0	F	5263	K	10	1	4.12		
	√	16.5	21.8	As F	5264	ε	10	1	3.60		
	√	16.8	22.0	F2G		K	10	1	3.85		
	√	17.1	6.1	A		μ	N	4	1.62	5.52	3.90
	√	17.2	7.0	A		E	N	1	4.00		
	√	17.4	7.8	1H		K	10	2	3.52 4.00		
	√	17.2	7.9	Ma		E	N	1	3.92 4.10		
	√	17.8	9.8	A		η	5	2	3.58		
	√	17.8	10.4	A		E	N	1	4.33		
	√	17.8	12.1	Fe.			1		3.80 4.20		
	√	18.0	12.1	F2G			12	3	2.53	6.49	3.96
	√	17.3	14.7	1H		E	N	1	4.10 4.33		
	√	17.4	16.0	1H		E	N	1	4.34 F		
	√	18.0	16.5	1H		E	N	1	4.30 F		
10.05 P. M.	√	17.2	18.5	1K		K	10	2	3.70 4.15		

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1875 Approx	C.P.D. Design.	1875 R.A.	1875 Dec.	Magn.	R.A. 1900	Dec 1900		
6 54	-70 21	-70 57′6	53 30.5	-70 °	21.0	82 ✓		Correct if 5.8 intended
6 47	-70 24	-70 56′6	47 6.5	-70	23.0	83 ✓		
6 42	-70 33	-70 55′2 ✓	6 42 26.0	-70	31.6	7.2 ✓		
6 39	-70 29	-70 54′3 ✓	6 39 2.0	-70	29.2	7.7 ✓		
6 38	-70 48	-70 54′2 ✓	6 38 41.0	-70	48.2	7.8 ✓		
6 35	-70 54	-70 53′7	6 35 34.0	-70	53.7	8.9 ✓		
6 24	-70 53	-70 51′4 ✓	6 24 43.5	-70	52.5	7.9 ✓		
6 10	-71 6	-71 41′5	6 10 14.0	-71	5.6	8.6 ✓		
6 4	-71 3	-71 41′0	6 3 53.0	-71	2.2	9.0 ✓		
6 1	-71 12	-71 40′7	6 1 5.0	-71	11.6	8.8 ✓		
5 49	-71 0	-71 38′0	5 49 14.5	-71	1.6	8.8 ✓		
5 32	-71 0	-71 34′6 ✓	5 32 22.5	-71	0.5	8.5 ✓		
5 30	-70 55	-70 39′9 ✓	5 30 42.0	-70	55.1	8.3 ✓		
5 30	-71 0	-70 39′8	5 30 2.0	-70	59.9	8.7 ✓		
5 21	-70 52	-70 38′4	5 21 39.0	-70	51.4	8.8 ✓		
5 17	-70 34	-70 38′1 ✓	5 17 22.0	-70	35.1	8.5 ✓		
5 16	-70 42	-70 37′7	5 15 55.0	-70	43.1	8.7 ✓		
6 50	-70 49	-70 57′2 ✓	6 52 49.5	-70	48.4	5.0 ✓	6 52.6	-70 50 50
6 47	-70 57	-70 56′5	6 47 41.5	-70	53.5	7.8 ✓		
6 43	-71 6	-71 47′8 ✓	6 43 21.0	-71	5.2	8.6 ✓		
6 42	-71 0	-71 47′5	6 42 40.5	-71	0.0	8.9 ✓		
6 31	-71 25	-71 44′9 ✓	6 31 14.0	-71	24.9	8.2 ✓		
6 27	-71 38	-71 43′9	6 27 7.0	-71	27.0	9.2 ✓		440 subtracted?
6 17	-71 36	-71 42′5	6 16 53.0	-71	36.5	8.8 ✓		
6 17	-71 38	-71 42′6 ✓	6 17 50	-71	39.4	7.4 ✓	6 16.7	-71 40 50
6 0	-71 20	-71 40′4	6 0 11.0	-71	19.7	8.8 ✓		
5 52	-71 24	-71 38′7	5 52 11.0	-71	22.9	9.0 ✓		
5 49	-71 38	-71 37′7	5 48 45.0	-71	38.4	8.9 ✓		
5 36	-71 12	-71 35′5 ✓	5 36 58.0	-71	12.7	8.5 ✓		

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8.00 P.M. Plate B 9062

	V.	H.	Cl	Rem.	L.	K	Int	Br.	Photom. Magn.	Diff.
√	17.6	19.7	Fr	5265	K	10	1		4.10	
√	17.7	22.0	H		K	10	1		4.00 4.40	
√	17.3	20.9	H		K	10	1		3.95 4.25	
√	17.3	23.3	H		E	R	1		4.35 Fr	
√	17.4	24.2	Fr	5266	K	10	2		3.18	
√	18.7	7.9	H		E	R	1		3.66 4.12	
√	18.4	8.0	K		K	12	3		2.76 3.35	6.43 3.67
√	18.7	9.0	H		E	R	1		4.21 Fr	
√	18.1	9.2	H		K	10	2		3.61 4.08	
√	18.8	10.1	A		N	R	2		3.47	
√	18.7	10.4	H		E	R	1		4.22 Fr	
√	18.8	11.6	A		O	3	2		3.00	
√	18.9	12.7	H		E	R	1		4.40 Fr	
√	18.1	13.0	H		E	R	1		4.38 Fr	
√	18.9	14.1	H		E	R	1		3.83 4.15	
√	18.4	15.9	Fr	5267	K	10	1		4.40	
√	18.2	18.~~8~~ 7.7	A		E	R	1		4.35	
√	18.2	18.3	A		E	R	1		4.19	
√	18.4	18.4	H		E	R	1		4.00 4.30	
√	18.3	20.4	A		N	4	2		2.96	
√	18.4	20.7	A		E	R	1		3.58	
√	18.5	21.1	H		K	10	2		3.47 3.95	
√	18.6	21.6	H		E	R	1		4.20 Fr	
√	18.3	22.9	H		K	10	2		3.27 4.00	
√	18.6	23.5	95 K			12	3		2.12 2.30	5.30 3.18
√	18.2	24.7	H		K	10	2		3.24 3.60	
√	19.3	9.2	A		E	R	2		3.37	
√	19.2	9.4	A		E	R	1		4.17	
√	19.4	10.8	Fr	5268	K	10	1		3.94	

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Approx 1875	C.P.D. Design	1875 R.A.	1875 Dec.	Magn.	R.A. 1900	Dec. 1900				
5 29 - 71	19 - 71	5 44	29 15.0	- 71	18.8	8.9	✓			
5 14 - 71	12 - 71	323	5 14 35.0	- 71	12.0	9.1	✓			
5 22 - 71	6 - 71	333	5 21 49.0	- 71	5.0	9.0	✓			
	- 70°	364	5 7 23.0	- 70	50.6	9.3				
5 1 - 70	49 - 70	350	5 1 57.0	- 70	48.0	8.3	✓			
6 43 - 71	45 - 71	480	6 44 4.0	- 71	45.6	8.6	✓			
6 42 - 71	38 - 71	476	6 42 51.0	- 71	38.8	7.7	✓	6	42.4 - 71	41 50
6 37 - 71	53 - 71	468	6 37 4.0	- 71	51.8	9.2	✓			
6 35 - 71	33 - 71	460	6 35 5.0	- 71	32.9	8.6	✓			
6 30 - 71	56 - 71	446	6 29 44.0	- 71	56.3	8.3	✓			
6 27 - 71	58 - 71	441	6 27 48.0	- 71	57.9	9.0	✓			
6 20 - 72	3 - 72	469	6 20 25.0	- 72	4.4	8.0	✓			
6 13 - 72	6 - 72	458	6 13 29.0	- 72	7.7	9.2	✓			
6 11 - 71	42 - 71	419	6 11 27.0	- 71	42.6	9.3	✓			
6 3 - 72	8 - 72	443	6 4 0.0	- 72	8.3	8.6	✓			
5 52 - 71	54 - 71	388	5 52 41.0	- 71	53.9	8.2	✓			
5 41 - 71	43 - 71	365	5 40 52.5	- 71	42.0	8.6	✓			
5 37 - 71	45 - 71	356	5 37 17.5	- 71	44.9	8.6	✓			
5 36 - 71	49 - 71	354	5 36 51.5	- 71	49.2	8.6	✓			
5 24 - 71	37 - 71	335	5 24 16.0	- 71	37.2	8.4	✓			
5 22 - 71	40 - 71	334	5 22 20.0	- 71	39.0	8.8	✓			
5 19 - 71	40 - 71	330	5 19 15.0	- 71	39.4	8.7	✓			
5 16 - 71	39 - 71	325	5 16 5.0	- 71	38.2	9.0	✓			
5 8 - 71	26 - 71	315	5 8 45.0	- 71	25.5	8.8	✓			
5 4 - 71	32 - 71	309	5 4 20.0	- 71	29.1	7.9	✓	5	4.0 - 71	27 50
4 58 - 71	8 - 71	301	4 58 14.5	- 71	6.8	8.7	✓			
6 36 - 72	10 - 72	502	6 36 15.5	- 72	9.8	8.3	✓			
6 34 - 72	6 - 72	502	6 34 44.0	- 72	4.7	8.7	✓			
6 25 - 72	18 - 72	478	6 25 31.5	- 72	17.6	9.0	✓			

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	V.	H.	Cl.	Rem.	L.	K.	Int.	B-c.	Photom. Magn.	Diff.
√	19.5	12.1	H		E	N	1		4.24 Fl	
√	19.5	13.4	H		E	N	1		4.22 Fl	
√	19.3	15.5	F	5269	K	10	1		4.10	
√	20.0	16.2	K		K	12	3		2.75 3.00	6.51 3.76
√	20.0	16.6	F2	G	K	10	2		3.52	
√	19.4	17.3	F	5270	K	10	2		3.80	
√	19.8	17.4	H		E	N	1		4.02 4.20	
√	19.9	20.0	A		O	5	3		2.90	
√	19.5	20.4	H		E	N	1		4.27 Fl	
√	19.8	22.0	H		K	10	2		3.87 4.20	
√	19.8	23.3	H		E	N	1		4.12 4.40	
√	20.2	12.5	F	5271	K	10	1		4.10	
√	20.5	12.8	A		S	3	3		2.98	
Is line not D? √	20.2	15.5	G5	K	K	10	2		3.30 3.60	
√	20.8	15.0	K		K	12	2		3.36 3.84	
√	20.8	17.8	H		K	10	2		3.60 4.03	
√	20.7	17.9	H		E	N	1		3.96 4.20	
√	20.6	18.4	A		H	4	2		3.48	
√	20.6	18.8	G5	K	K	10	2		3.68 3.82	
√	20.6	19.0	F5	G	K	10	1		4.10	
√	21.0	19.2	H		E	N	1		4.00 4.50	
√	20.8	20.7	H		E	N	1		4.20 Fl	
√	20.2	21.1	H		E	N	1		4.22 Fl	
√	20.7	22.6	H		E	N	1		4.10 4.40	
√	21.0	23.2	H		E	N	1		4.33 Fl	
√	21.7	7.3	F	5272	K	10	2		3.63	
√	21.1	8.0	G2	K		12	3		2.55 2.87	6.33
√	21.1	10.4	A		E	N	1		3.89	
√	21.4	11.6	H		E	N	1		3.80 4.50	

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Apprad C.P.D. 1875 1875

1875	Decln.	R.A.	Dec.	Magn.	R.A. 1900	Dec. 1900	
h m	°	h m s	°				
6 17	-72 27	-72 463	6 17 21.5	-72 26.7	9.0	✓	
6 8	-72 29	-72 451	6 8 54.5	-72 28.5	8.9	✓	
5 55	-72 20	-72 424	5 54 42.8	-72 21.7	8.6	✓	
5 50	-72 45	-72 418	5 50 20.7	-72 44.2	7.6	✓	5 49.8 -72 44 50
5 47	-72 43	-72 414	5 47 15.5	-72 42.1	8.3	✓	
5 43	-72 20	-72 405	5 43 14.3	-72 19.7	8.7	✓	
5 42	-72 32	-72 403	5 42 19.5	-72 31.8	9.1	✓	
5 25	-72 28	-72 372	5 25 0.3	-72 27.0	8.2	✓	
5 23	-72 12	-72 369	5 23 12.0	-72 12.5	9.2	✓	
5 12	-72 14	-72 352	5 12 15.5	-72 13.3	8.9	✓	
5 4	-72 0	-72 343	5 4 15.0	-72 0.9	9.1	✓	
6 14	-72 45	-72 459	6 14 55.5	-72 46.0	8.6	✓	
6 13	-72 59	-72 457	6 13 24.5	-72 58.7	7.5	✓	
5 57	-72 48	-72 437	5 57 41.5	-72 49.4	8.2	✓	Correct if 15.0 intended
5 58	-73 10	-73 344	5 58 1.0	-73 9.5	8.5	✓	
5 39	-73 1	-73 321	5 39 12.0	-73 3.0	8.9	✓	
5 38	-72 59	-72 395	5 38 13.5	-72 58.8	9.1	✓	
		-72 394	5 38 10.5	-72 58.6	9.6		
5 35	-72 54	-72 386	5 34 53.0	-72 54.8	8.3	✓	
5 32	-72 54	-72 382	5 32 6.5	-72 54.2	8.6	✓	
5 31	-72 50	-72 379	5 31 8.5	-72 50.4	8.9	✓	
5 29	-73 3	-73 301	5 29 17.5	-73 2.9	8.8	✓	
5 20	-72 50	-72 363	5 19 44.0	-72 49.5	8.9	✓	
5 18	-72 31	-72 358	5 17 44.0	-72 31.7	8.7	✓	
5 7	-72 35	-72 344	5 7 8.5	-72 35.0	8.6	✓	
5 2	-72 38	-72 341	5 2 43.5	-72 38.0	8.8	✓	
6 51	-73 10	-73 409	6 51 35.0	-73 9.2	8.1	✓	
6 46	-72 59	-72 522	6 46 9.5	-72 58.9	7.3	✓	6 45.7 -73.1 50
6 29	-73 9	-73 382	6 29 57.5	-73 8.5	8.9	✓	
6 21	-73 18	-73 372	6 21 43.0	-73 17.9	9.0	✓	

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	V	H	Cl.	Rem.	L.	K.	Int.	Br.	Photom. Magn.	Diff.
√	21.7	12.2	A		λ	1	3	2.12	6.80	
√	21.7	13.0	H		ε	N	1	4.20 F		
√	21.8	14.7	A		ε	N	1	4.14		
√	21.8	13.9	H		ε	N	1	3.96 4.27		
√	21.9	15.8	A		ε	N	1	4.32		
√	21.8	16.6	H		ε	N	1	3.73 4.10		
√	21.7	17.7	G		K	10	1	3.93		
√	21.7	22.1	A		K	N	3	2.03	6.25	4.22
√	21.9	24.1	A		ξ	N	2	2.91	7.18	
√	21.1	24.3	F	5273	K	10	3	2.40	6.18	3.78
√	22.2	9.6	A&F	5274	η	10	1	3.23		
√	22.8	14.0	H		K	10	2	3.70 4.05		
√	22.2	17.5	F&G			12	3	2.61	6.74	
√	22.2	17.8	Mass		ε	N	3	2.82 3.24	5.61	2.79
√	22.4	19.0	H		K	10	2	3.25 3.66		
√	22.7	19.5	H&M		K	10	2	3.24 3.78		
√	22.6	20.5	A		K	3	3	2.19	6.56	
√	22.9	21.8	A		ε	N	1	3.80		
√	22.4	24.1	A		ε	N	1	3.70		
√	23.5	9.1	A		ε	N	1	3.90		
√	24.1	12.9	F&G			12	4	1.71	5.14	3.43
√	24.0	15.2	A		ε	N	1	3.90		
√	23.4	17.5	A		ε	N	1	4.17		
√	23.4	19.9	A		ε	N	1	4.12		
√	23.6	23.2	H		ε	N	1	4.12 F		
√	24.6	7.2	F	5275	K	10	2	3.50		
√	24.6	12.6	F&K		K	10	2	3.37 3.70	7.43	
√	24.7	15.6	A		ε	N	1	4.02	9.48	
√	24.3	15.9	A		ε	N	1	4.10		

2a Sus not 14.9?

Comp.

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1875 Approx	C.P.D. Design.	1875 R.A.	1875 Dec.	Mag.		R.A. 1900	Dec. 1900	
6 17 - 73°	36	-73 360	✓6 17 43.0	-73	34.7	6.3 ✓	6 17.1 - 73 36	54
6 12 - 73	34	-73 356	6 12 13.0	-73	33.8	9.1 ✓		
6 0 - 73	36	-73 349	6 0 15.0	-73	35.9	8.9 ✓		
5 58 - 73	39	-73 345	✓5 58 33.0	-73	38.5	8.9 ✓		Correct if 14.9 intended
5 52 - 73	38	-73 340	5 52 14.0	-73	38.6	9.0 ✓		
5 46 - 73	36	-73 330	5 46 44.0	-73	35.1	8.9 ✓		
5 38 - 73	30	-73 319	✓5 38 52.0	-73	29.7	9.0 ✓		
5 8 - 73	12	-73 286	5 8 40.0	-73	12.0	6.4 ✓	5 8.2 - 73 10	50
4 56 - 72	58	-72 334	✓4 55 43.0	-72	57.7	7.7 ✓	4 55.2 - 72 56	54
4 55 - 72	36	-72 332	✓4 55 11.0	-72	36.8	7.1 ✓	4 54.8 - 72 35	50
6 35 - 73	40	-73 389	✓6 36 2.0	-73	38.8	8.1 ✓		
6 4 - 74	8	-74 368	6 5 50	-74	7.2	8.9 ✓		
5 40 - 73	45	-73 323	✓5 40 3.0	-73	45.7	7.1 ✓	5 39.5 -73 45	54
5 38 - 73	49	-73 316	✓5 37 51.0	-73	49.0	8.0 ✓	5 37.3 - 73 48	50
5 30 - 73	45	-73 302	✓5 29 38.0	-73	45.8	8.3 ✓		
5 26 - 73	53	-73 296	✓5 25 39.0	-73	54.7	8.2 ✓		
5 18 - 73	42	-73 294	✓5 18 20.0	-73	42.2	7.0 ✓	5 17.8 - 73 41	54
5 9 - 73	45	-73 288	✓5 8 49.0	-73	45.4	8.4 ✓		
4 54 - 73	12	-73 280	✓4 54 23.0	-73	11.9	8.4 ✓		
6 41 - 74	14	-74 401	6 40 50.0	-74	11.3	8.8 ✓		
6 14 - 74	43	-74 374	✓6 13 58.0	-74	42.7	5.9 ✓	6 13.2 - 74 43	50
5 55 - 74	45	-74 362	✓5 55 51.0	-74	45.3	8.7 ✓		
5 39 - 74	18	-74 339	5 39 10.0	-74	19.0	9.0 ✓		
5 22 - 74	12	-74 322	✓5 21 32.0	-74	11.0	8.5 ✓		
4 58 - 73	58	-73 284	✓4 58 17.0	-73	57.1	8.5 ✓		
6 57 - 74	32	-74 421	✓6 56 45.0	-74	33.9	7.9 ✓		
6 16 - 75	3	-75 368	✓6 16 0.5	-75	2.6	7.8 ✓	6 15.2 - 75 4	54
5 52 - 75	3	-75 345	✓5 52 55.0	-75	2.8	8.6 ✓	5 52.1 - 75 3	54
5 51 - 74	48	-74 357	✓5 50 58.0	-74	48.2	9.0 ✓		

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	V.	H.	Cl.	Rem.	L.	K.	Int.	Ba.	Photom. Magn.	Diff.
√	24.5	16.5	a		E	N	1		4.22	9.43
√	24.3	17.3	H		N	10	2	{	3.69 4.05	
√	24.3	18.9	H		N	10	2	{	3.60 3.98	8.03
√	24.6	19.7	H		E	N	1	{	3.70 4.18	7.83
√	24.5	22.1	a		N	N	3		2.71	6.97

8.55 P.M. 10.20 P.M.

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1875	C.P.D.	1875.5	1875							
Approx	Design.		RA	Dec.	Mag.		R.A. 1900		Dec. 1900	
6h 46	-74 54	-74 349	5m 46s.320	-74	54.5	8.7	✓	5h 45m.7	-74	54 54
6 48	-74 48	-74 341	5 40 27.0	-74	46.9	8.8	✓			
5 28	-74 45	-74 328	5 27 54.5	-74	44.1	8.4	✓	5h 27m.2	-74	43 54
5 21	-74 48	-74 323	5 21 56.0	-74	49.1	8.6	✓	5h 21m.2	-74	48 54
5 4	-74 30	-74 312	5 4 25.0	-74	30.8	7.1	✓	5h 3m.7	-74	29 54

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7.45 P.M. Plate B9003 9.05 P.M.

	V.	H.	Cl.	Rem.	L.	K.	Int.	Br. Photom. Magn.	Diff	
√	4.2	6.1	A		E	N	1	4.29		
√	4.0	7.1	F	5276	K	10	1	4.32		
√	4.3	9.4	A		E	N	1	4.22		
√	4.0	14.7	A		E	N	1	4.20		
√	4.3	16.9	A		O	N	2	3.54		
√	3.9	18.9	A		γ	N	2	3.82		
√	5.5	14.0	H		K	10	1	4.32 F		
√	6.1	16.6	A		E	N	1	4.25		
√	6.8	6.8	G		K	10	2	3.84		
√	6.4	7.7	H		K	10	2	3.69 4.06		
√	6.0	7.8	A		E	N	1	4.35		
√	6.8	9.4	A		X	N	3	1.93	5.94	
√	6.5	10.3	K		K	10	2	3.29 3.62	6.40	
√	6.2	10.9	F	5277	K	10	1	4.18		
√	6.3	11.7	H		E	N	1	4.07 4.50		
√	6.2	19.3	F	5278	K	10	2	3.91		
√	5.9	21.0	A		E	N	1	4.40		
√	6.3	21.2	F	5279	K	10	1	4.27		
√	6.1	23.8	F	5280	K	10	1	4.34	8.09	
√	7.5	14.8	A		γ	N	2	3.70		
√	7.5	21.4	G		K	10	2	3.85	6.99	
√	7.7	23.7	G		K	10	1	4.18		
√	8.5	6.8	A		E	N	1	4.18		
√	8.2	7.7	A		γ	N	2	3.95		
√	8.1	7.9	H		E	N	1	4.26 F		
√	8.5	10.8	AH		E	N	1	4.20		
√	8.8	10.6	H		E	N	1	4.35 F		
√	8.1	10.9	K		K	10	2	3.75 4.18		
√	9.0	12.2	A		O	N	2	3.25		

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1875 Approx.	C.P.D. Design.	1875 R.A.	1875 Dec.	Magn.	R.A. 1900	Dec. 1900	
8 2	-64 816	8h 2m 26.0	-64°	16.4	8.1		✓
7 57	-64 794	7 57 27.0	-64	12.1	8.2		✓
7 47	-64 757	7 47 24.5	-64	30.4	8.3		✓
7 22	-64 711	7 22 30.5	-64	26.7	8.1		✓
7 13	-64 686	7 12 29.0	-64	39.4	7.3		✓
7 3	-64 660	7 3 19.5	-64	18.0	7.8		✓
6 26	-65 762	6 26 12.0	-65	20.4	8.4		✓
8 2	-65 857	8 1 26.5	-65	14.2	8.6		✓
8 2	-65 858	8 1 30.5	-65	39.8	8.3		✓
7 57	-65 846	7 56 40.5	-65	34.0	8.5		✓
7 55	-65 843	7 55 34.0	-65	16.7	8.7		✓
7 49	-65 827	7 48 50.5	-65	52.7	6.3	7 49.0 -65 57 50	✓
7 44	-65 806	7 43 56.0	-65	46.1	8.1	7 44.1 -65 50 50	✓
7 41	-65 796	7 40 55.0	-65	29.3	8.4		✓
7 37	-65 785	7 36 50.5	-65	37.9	8.4		✓
7 0	-65 686	7 0 38.8	-65	31.6	8.0		✓
6 52	-65 666	6 52 25.5	-65	15.9	8.3		✓
6 51	-65 663	6 51 23.0	-65	27.8	8.0		✓
6 39	-65 636	6 39 13.0	-65	9.3	8.1	6 39.3 -65 10 54	✓
7 22	-66 687	7 22 23.0	-66	17.6	7.8		✓
6 49	-66 608	6 49 49.0	-66	8.6	7.9	6 49.8 -66 11 54	✓
6 38	-65 631	6 38 11.7	-65	58.3	8.0		✓
8 2	-66 792	8 2 29.5	-66	28.9	8.6		✓
7 57	-66 783	7 57 44.5	-66	25.9	8.3		✓
7 56	-66 778	7 56 26.0	-66	25.7	9.0		✓
7 45	-66 743	7 45 9.0	-66	45.7	8.7		✓
7 43	-66 737	7 43 31.5	-66	53.9	8.8		✓
7 42	-66 733	7 41 45.5	-66	36.1	8.5	7 35 superposed?	✓
7 35	-67 6	7 35 56.5	-67	5.7	7.5		✓

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	V.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photom. Magn.	Diff.	
✓	8.6	13.1	H		K	10	1	{4.11 4.30			
✓	8.3	13.7	F	5281	K	10	2	3.84			
✓	8.1	16.1	A		E	N	1	4.31			
✓	8.6	17.1	G5K		K	10	2	{3.92 4.18			
✓	8.5	17.9	G5K		K	10	2	{3.72 4.10			
✓	8.4	18.6	F	5282	K	10	2	3.80			
✓	8.7	19.7	F	5283	K	10	1	4.24			
✓	8.2	22.6	A		E	N	2	3.99			
✓	9.2	6.7	A		E	N	2	3.57			
✓	10.0	7.8	A		E	N	2	3.77			
✓	9.8	9.3	A		E	N	2	3.80			
✓	9.2	10.3	A		O	N	2	3.56			
✓	9.7	11.1	F	5284	K	10	1	3.95			
✓	9.1	11.8	F	5285	E	10	2	3.57			
✓	9.4	12.1	G		K	10	1	4.20			
✓	9.0	14.8	A		E	N	1	4.20			
✓	10.0	15.8	Fe G Ba.			12	4	1.59		4.02	
✓	9.9	16.7	GK		K	10	1	3.69			
✓	10.2	7.2	A		E	N	1	3.90			
✓	10.8	11.7	A		E	N	2	3.67			
✓	10.3	14.6	A		E	5	2	3.80			
✓	10.4	16.1	G		K	10	1	4.00			
✓	10.3	16.9	K		K	10	1	{3.85 4.13			
✓	10.3	17.5	A		E	N	2	3.61			
✓	10.3	19.0	K sm		K	10	3	{2.51 3.37		5.08	
✓	10.6	22.0	F	5286	K	10	1	4.25			
✓	10.8	22.3	A		O	N	2	2.75		6.86	
✓	10.8	24.4	A		E	N	1	4.06			
✓	11.9	6.4	A		μ	N	4	1.22		4.46	

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1875 Approx	C.P.D. Design.	R.A.	Dec.	Magn.	1875 R.A.	1875 Dec						
7 30	-66° 54'	-66	707	7 31 1.0	-66°	54.8	8.6	✓				
7 27	-66 43	-66	700	7 27 31.5	-66	43.2	8.3	✓				
7 15	-66 36	-66	669	7 15 56.5	-66	34.7	8.5	✓				
7 10	-66 50	-66	661	7 10 48.0	-66	51.2	8.3	✓				
		-66	662	7 10 55.0	-66	53.4	8.8					
7 6	-66 48	-66	655	7 6 39.0	-66	49.0	8.3	✓				
7 2	-66 42	-66	646	7 3 2.0	-66	42.2	8.3	✓				
6 57	-66 48	-66	632	6 57 43.5	-66	49.0	8.7	✓				
6 42	-66 23	-66	594	6 43 10.0	-66	22.2	8.1	✓				
8 4	-66 43	-66	796	8 3 45.0	-66	51.0	7.8	✓				
7 38	-67 19	-67	858	7 58 23.5	-67	20.2	8.4	✓				
7 50	-67 20	-67	830	7 50 35.5	67	20.9	8.3	✓				
7 46	-67 7	-67	811	7 45 37.0	-67	7.4	8.0	✓				
7 41	-67 24	-67	799	7 41 14.3	-67	22.8	8.5	✓				
7 38	-67 11	-67	788	7 37 52.7	-67	9.5	7.9	✓				
7 36	-67 18	-67	786	7 36 18.5	-67	19.4	8.6	✓				
7 22	-67 3	-67	741	7 22 16.5	-67	3.2	8.5	✓				
7 16	-67 43	-67	730	7 16 52.0	-67	43.6	5.5	✓	7	16.9	-67 46	50
7 12	-67 32	-67	720	7 12 16.5	-67	33.6	7.9	✓				
8 2	-67 25	-67	866	8 1 48.0	-67	26.4	8.2	✓				
		-67	865	8 1 45.0	-67	22.0	8.8					
7 38	-67 59	-67	791	7 38 30.5	-67	58.9	7.6	✓				
7 23	-67 45	-67	746	7 23 28.5	-67	46.3	7.9	✓				
7 15	-67 49	-67	726	7 15 2.5	-67	50.5	8.2	✓				
7 11	-67 45	-67	719	7 11 6.0	-67	44.9	8.4	✓				
7 7	-67 44	-67	710	7 7 54.8	-67	44.1	7.6	✓				
7 0	-67 44	-67	686	7 0 20	-67	44.7	6.8	✓	7	0.1	-67 47	50
6 44	-67 32	-67	650	6 44 29.0	-67	34.1	8.5	✓				
6 42	-67 43	-67	645	6 42 43.0	-67	43.0	6.8	✓	6	42.6	-67 45	54
6 31	-67 30	-67	611	6 31 32.0	-67	29.2	8.4	✓				
8 7	-67 15	-67	736	8 7 31.0	-67	15.0	5.0	✓	8	7.8	-68 19	50

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V.	H.	cl.	Rem.	L.	K.	Int.	Br.	Photom. Magn.	Diff.
√12.0	6.7	A		E	N	2		3.72	
√11.3	12.1	A		E	N	2		3.70	
√11.7	12.7	A		Θ	2	3		2.73	6.72
√11.4	13.8	F2G		K	10	2		3.30	
√12.0	17.6	G		K	10	2		3.41	6.46
√11.6	19.6	K		K	10	2		3.56 4.05	
√13.8	6.3	A		Θ	N	2		3.00	
√12.5	6.5	A		Θ	N	2		3.39	
√12.5	7.3	G		K	10	2		3.36	
√12.5	8.9	A		E	N	1		4.10	
√12.3	12.2	A		Θ	N	2		2.92	6.99
√12.8	15.3	H		E	N	1		4.34 Fe	
√11.8	24.1	G		K	10	1		4.04	
√13.8	7.8	H		E	N	1		4.10 Fe	
√14.0	7.8	H		K	10	1		3.85 4.20	
√13.8	8.7	Fe	5287	K	10	1		4.25	
√13.3	10.5	A		E	N	1		4.03	
√13.8	10.8	A		K	N	3		2.40	6.21
√13.8	11.6	H		K	10	1		3.75 4.10	
√13.2	13.8	A		E	N	1		4.20	
√13.3	13.9	Fe	5288	K	10	2		3.75	
√13.5	21.6	A		E	N	1		4.03	
√13.4	23.9	A		Eη	N	2		3.72	
√14.2	5.5	A		η	N	2		3.39	
√14.3	6.1	G		K	10	1		3.90	
√14.5	6.8	A		Θ	N	2		3.41	
√14.4	7.2	H		E	N	1		4.18 Fe	
√14.5	7.6	A		ε	N	3		2.61	6.77
√14.5	7.9	Fe	5269	K	10	2		3.62	6.82

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1875	C.P.D.	1875	1875									
Approx	Design.	R.A.	Dec.	Mag.	R.A. 1900	Dec. 1900						
8 17	6 - 68 15	-68	731	8	6 11.5	-68	15.1	8.4	✓			
7 36	- 68 14	-68	662	7	36 56.0	-68	13.5	7.7	✓			
7 33	68 30	-68	656	7	33 29.5	-68	29.5	6.8	✓	7	33.5	-68 33 54
7 27	- 68 22	-68	644	7	27 15.5	-68	21.6	7.4	✓			
7 6	- 68 38	-68	591	7	6 41.0	-68	38.2	7.6	✓	7	6.6	- 68 40 50
6 55	- 68 19	-68	579	6	56 7.0	-68	20.3	8.0	✓			
8 8	- 68 38	-68	743	8	8 37.0	-68	37.3	7.4	✓			
8 7	68 32	-68	735	8	7 26.5	-68	31.9	7.6	✓			
8 3	68 23	-68	725	8	3 37.5	-68	34.7	8.0	✓			
7 54	- 68 41	-68	692	7	54 25.3	-68	40.1	8.7	✓			
7 36	- 68 45	-68	659	7	36 30.0	-68	46.3	6.9	✓	7	36.5	- 68 49 54
7 20	- 69 6	-69	715	7	19 9.0	-69	5.6	8.4	✓			
6 32	- 67 59	-68	534	6	32 19.0	-68	1.3	8.2	✓			
8 6	- 69 12	-69	841	8	6 1.5	-69	11.8	8.6	✓			
8 2	- 69 26	-69	822	8	2 11.0	-69	25.3	8.6	✓			
7 56	- 69 19	-69	801	7	56 24.5	-69	18.8	8.8	✓			
7 46	- 69 12	-69	775	7	46 13.0	-69	11.3	8.0	✓			
7 44	- 69 30	-69	770	7	44 33.5	-69	30.9	6.0	✓	7	44.5	- 69 35 50
7 41	- 69 33	-69	764	7	40 55.	-69	33.0	8.2	✓			
7 27	- 69 15	-69	737	7	27 30.0	-69	15.5	8.0	✓			
7 27	- 69 18	-69	736	7	27 11.0	-69	19.1	7.7	✓			
6 44	- 69 11	-69	652	6	43 55.0	-69	10.0	8.4	✓			
6 31	- 68 50	-68	532	6	31 12.0	-68	51.2	7.8	✓			
8 14	- 69 15	-69	872	8	14 37.5	-69	14.2	8.0	✓			
8 11	- 69 22	-69	864	8	11 54.0	-69	22.2	8.4	✓	8 2 -69 862 superpose?		
8 8	- 69 30	-69	847	8	7 51.0	-69	31.9	7.8	✓			
8 5	- 69 38	-69	838	8	5 31.0	-69	30.0	8.6	✓			
8 3	- 69 36	-69	826	8	3 26.0	-69	37.0	6.9	✓	8	3.4	- 69 41 54
8 2	- 69 40	-69	820	8	1 41.0	-69	40.5	8.3	✓	8	1.7	- 69 45 54
		-69	821	8	2 9.0	-69	40.5	8.8				

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	V.	H.	Cl.	Rem.	L.	K.	Int.	Pr.	Photom. Magn.	Diff
√	14.9	8.2	A		E	N	1		3.93	
√	14.5	9.7	F	5290	K	10	1		4.04	
√	14.3	11.0	F	5291	K	10	1		3.92	
√	14.3	11.9	A		E	N	1		4.28	
√	14.6	12.5	H		E	N	1		4.05 4.40	8.52
√	14.9	12.6	F	5292	K	10	1		3.90	8.32
√	14.9	14.1	H		E	N	1		4.00 F	8.08
√	14.7	14.7	F	5293	K	10	1		4.20	
√	14.6	15.1	F	5294	K	10	2		3.91	8.22
√	14.4	16.5	G	K	K	10	2		3.50 3.75	7.02
√	14.6	19.3	H		E	N	1		4.10 F	
√	14.6	20.1	G		K	10	2		3.44 3.70	6.68
√	14.4	21.6	A		N	N	2		3.25	
√	15.0	24.4	K			12	3		2.38 2.80	5.40
√	15.7	5.6	A		E	N	1		4.00	
√	15.8	6.4	A		E	N	1		3.92	8.87
√	15.3	7.6	A		a	N	3		2.93	7.22
√	15.8	8.9	F	5295	K	10	1		4.07	
√	15.3	9.8	A		E	N	1		4.22	
√	15.8	9.9	F	5296	E	10	2		3.78	
√	15.1	11.7	A		E	N	1		4.11	9.28
√	15.1	12.4	G	K	K	10	2		3.49 0.83	7.38
√	15.6	13.7	H		E	N	1		4.18 F	
√	15.7	14.3	A		N	N	2		3.80	
√	15.4	14.4	K		K	N	2		3.35 3.83	
Comp ?	15.1	16.8	G	5297		12	4		1.15	5.81 3.87
√	15.4	17.8	A		E	N	2		3.33	
√	15.5	19.1	A		Θ	N	2		3.00	7.22
√	15.6	19.5	H		E	N	1		3.70 4.04	

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1875	C.P.D.		1875	1875								
Arbitrary	Design.		R.A.	Dec.	Magn.		R.A. 1900		Dec. 1900			
8 0	-69	49	-69 816	8 0 31.5	-69	50.0	8.4	✓				
7 51	-69	46	-69 789	7 51 17.5	-69	46.0	8.4	✓				
7 43	-69	44	-69 768	7 43 45.5	-69	45.5	7.8	✓				
7 38	-69	46	-69 757	7 38 29.5	-69	46.8	8.0	✓				
7 35	-69	56	-69 752	7 35 40.0	-69	57.9	8.0	✓	7	35.6	-70 1	54
7 35	-70	6	-70 664	7 35 17.0	-70	6.2	8.0	✓	7	35.2	-70 9	54
7 26	-70	9	-70 648	7 25 59.0	-70	9.0	8.6	✓	7	25.8	-70 12	54
7 22	-70	3	-70 632	7 22 24.5	-70	3.9	9.2	✓				
7 20	-69	59	-69 719	7 20 19.0	-69	58.2	7.7	✓	7	20.1	-70 1	54
7 12	-69	55	-69 705	7 12 10.0	-69	54.6	7.8	✓	7	12.0	-69 57	54
6 56	-69	53	-69 672	6 55 42.0	-69	52.3	8.7	✓				
6 51	-69	50	-69 665	6 51 27.5	-69	50.0	7.7	✓	6	51.3	-69 52	54
6 43	-69	33	-69 649	6 43 3.5	-69	34.7	7.6	✓				
6 26	-69	37	-69 614	6 26 32.0	-69	37.1	6.9	✓	6	26.3	-69 38	50
8 16	-70	0	-70 751	8 16 16.5	-70	0.8	8.4	✓				
8 11	-70	8	-70 737	8 11 40.5	-70	8.0	8.4	✓	8	11.7	-70 12	54
8 4	-69	59	-69 829	8 4 7.2	-69	58.8	7.4	✓	8	4.1	-70 3	54
7 57	-70	22	-70 702	7 57 16.0	-70	22.6	8.4	✓				
7 51	-70	10	-70 693	7 51 9.5	-70	10.5	8.8	✓				
7 51	-70	26	-70 694	7 51 23.2	-70	27.2	8.3	✓				
7 40	-70	8	-70 673	7 40 10.5	-70	9.1	8.0	✓	7	40.1	-70 13	54
7 36	-70	15	-70 666	7 36 24.5	-70	14.4	7.6	✓	7	36.3	-70 17	54
7 28	-70	30	-70 652	7 28 46.5	-70	29.6	8.4	✓				
7 24	-70	32	-70 644	7 24 52.0	-70	31.3	7.8	✓				
7 24	-70	24	-70 638	7 24 4.5	-70	23.3	7.9	✓				
7 9	-70	18	-70 600	7 9 46.5	-70	17.8	5.2	✓	7	9.6	-70 20	50
									7	9.6	-70 20	
7 4	-70	22	-70 593	7 4 19.0	-70	21.0	7.9	✓				
6 56	-70	21	-70 581	6 56 27.5	-70	19.4	6.8	✓	6	56.3	-70 21	54
6 53	-70	22	-70 574	6 53 50.5	-70	21.0	8.2	✓				

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	Δ.	H	Cl.	Rem	L.	K.	Int.	Br.	Photom. Magn.	Diff.	
✓	15.8	20.7	H		E	N	1		3.98 4.25		6
✓	15.6	20.8	K		K	10	3		3.00 3.68	5.88	6
✓	15.7	24.7	K		K	10	3		3.53 3.36	5.56	6
✓	16.3	6.7	F	5298	K	10	1		4.00		8
✓	17.0	14.2	A		O	2	3		2.40	6.52	7
✓	16.9	17.2	F	5299	K	10	1		3.59		7
✓	16.4	19.6	B&A	5300	λ	N	4		1.76	5.52	6
✓	16.9	20.4	A		E	N	1		4.20		6
✓	16.2	21.4	A		η	5	2		3.22		6
✓	16.9	21.9	A		E	N	2		3.75		6
✓	16.2	22.0	F	5301	K	10	2		3.51		6
✓	16.4	23.0	F	5302	K	10	2		3.60		6
✓	16.1	24.4	F	5303	K	10	1		3.78	7.89	6
✓	17.3	6.5	F	5304	K	10	2		3.73		8
✓	17.4	6.8	A		E	N	1		4.40		8
✓	17.3	8.6	F	5305	K	10	1		4.31		8
✓	17.6	9.6	A		E	N	1		4.30		7
✓	17.6	10.7	F	5306	ε	10	2		3.70		7
✓	17.2	11.3	H		E	N	1		3.93 4.40		7
✓	17.6	11.6	K		K	10	2		3.43 3.98		7
✓	18.0	14.4	A		E	N	1		4.28		7
✓	17.1	14.8	H		E	N	1		4.25 F		7
✓	17.6	15.3	F2		K	10	2		3.28		7
✓	17.2	18.0	F	5307	K	10	1		4.10		7
✓	17.3	21.1	H		K	10	1		3.95 4.40		6
✓	17.2	21.2	H		K	10	1		4.15 F		6
✓	17.6	24.1	A		ε	N	2		3.92		6
✓	18.0	5.4	A		λ	N	4		2.00	5.44 5.72	8
✓	18.9	5.8	F&A	5308	ε	10	1		3.80		8

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1875 Approx	C.P.D. Desig.	1875 R.A.	1875 Dec.	Mag.			R.A. 1900	Dec. 1900	
6h 47m - 70° 24'	-70° 564	6h 47m 6.5	-70° 23.0'	8.3	✓				
6 46 - 70 18	-70 560	6 46 10.5	-70 17.8	7.7	✓	6	46.0	-70 20	50
6 23 - 69 54	-69 607	6 23 49.0	-69 55.0	7.6	✓	6	23.6	-69 56	50
8 10 - 70 26	-70 732	8 10 50.5	-70 24.4	8.2	✓				
7 25 - 71 14	-71 574	7 25 54.0	-71 13.1	6.8	✓	7	25.7	-71 16	54
7 6 - 71 6	-71 524	7 7 3.5	-71 5.0	8.1	✓				
6 52 - 70 48	-70 572	6 52 49.5	-70 48.4	5.0	✓	6	52.6	-70 50	50
6 47 - 70 54	-70 565	6 47 41.5	-70 53.5	7.8	✓				
6 42 - 70 30	-70 552	6 42 26.0	-70 31.6	7.2	✓				
6 38 - 70 48	-70 542	6 38 41.0	-70 48.2	7.8	✓				
6 39 - 70 29	-70 543	6 39 2.0	-70 29.2	7.7	✓				
6 32 - 70 25	-70 533	6 32 36.0	-70 25.1	7.8	✓				
6 24 - 70 6	-70 515	6 25 20.0	-70 6.9	8.0	✓	6	25.0	-70 8	54
8 12 - 70 54	-70 738	8 12 38.5	-70 53.0	8.0	✓				
8 11 - 70 58	-70 735	8 11 17.2	-70 57.2	8.4	✓				
8 0 - 71 6	-71 642	8 0 1.5	-71 5.3	8.4	✓				
7 54 - 71 18	-71 628	7 54 6.0	-71 18.1	8.8	✓				
7 47 - 71 24	-71 618	7 47 21.0	-71 24.5	7.6	✓				
7 44 - 71 15	-71 612	7 43 55.0	-71 14.3	8.2	✓				
7 41 - 71 28	-71 607	7 41 5.0	-71 27.9	7.7	✓				
7 24 - 71 43	-71 570	7 24 22.0	-71 42.7	8.0	✓				
7 22 - 71 18	-71 565	7 22 17.0	-71 17.4	9.0	✓				
7 18 - 71 32	-71 557	7 18 29.0	-71 31.2	7.7	✓				
7 2 - 71 12	-71 515	7 2 19.0	-71 12.8	8.0	✓				
6 43 - 71 6	-71 478	6 43 21.0	-71 5.2	8.6	✓				
6 42 - 71 0	-71 475	6 42 40.0	-71 0.0	8.9	✓				
6 24 - 70 52	-70 574	6 24 43.5	-70 52.5	7.9	✓				
8 20 - 71 6	-71 677	8 20 10.0	-71 6.9	5.8	✓	8	20.1	-71 12	50
	-71 678	8 20 21.0	-71 6.2	6.7		8	20.2	-71 11	
8 19 - 71 33	-71 675	8 19 12.0	-71 34.8	8.3	✓				

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V.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photom. Magn.	Diff.	
√ 18.1	7.2	K		K	10	2		{3.53 4.05		1.8
√ 19.0	7.5	H		ε	N	1		{4.34 Fr		8
√ 19.3	7.6	A		ε	N	1		4.30		8
√ 18.8	8.5	Fr	5309	K	10	1		4.14		8
√ 18.3	9.1	Mc		K	10	1		{4.38 4.23		7
√ 18.3	9.3	Fr	5310	K	10	1		3.95		7
√ 18.3	10.0	Fr	5311	K	10	1		4.13		7
√ 18.8	16.3	Mc		η	N	2		3.67		7
√ 18.7	16.7	A		ε	N	1		4.40		7
√ 18.5	18.4	Fr	G	K	10	1		4.23		6
√ 18.5	20.7	H		ε	N	1		{4.08 Fr		6
√ 18.4	20.9	K		K	10	2		{3.18 3.63	6.43	6
√ 18.4	22.2	H		ε	N	1		{3.98 4.20		6
√ 18.4	22.8	A		ε	N	1		4.03		6
√ 19.2	11.5	Gs	K. Re		12	4		{1.42	3.89	7
√ 19.3	11.8	A		ε	N	1		4.02		7
√ 19.3	12.8	A		ε	N	1		4.20		7
√ 19.6	15.4	Fr	5312	K	10	1		4.11		7
√ 19.5	17.7	Fr	5313	K	10	2		3.77		7
√ 19.6	21.7	A		ε	N	1		3.83		6
√ 19.4	22.8	A		ε	N	1		4.05		6
√ 20.0	24.2	A		ε	N	2		3.66		6
√ 20.5	6.1	A		ε	N	1		4.30		8
√ 21.0	7.2	A		ε	N	2		3.98		8
Is transit 21.8?	21.8	9.1	A		λ	3	3		2.30	6.42
√ 20.5	9.6	H		ε	N	1		{4.13 Fr		7
√ 20.5	12.1	H		ε	N	1		{4.28 Fr		7
√ 20.2	12.8	H		ε	N	1		{4.50 Fr		7
√ 20.3	13.7	H		ε	N	1		{4.23 Fr		7

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1875 C.P.D. 1875 1875

Approx.	Design.	R.A.	Dec.	Magn.	R.A. 1900	Dec 1900					
8h 9m	-71° 22'	-71	657	8	9 36.0	-71°	21.0	8.5	✓		
8 8	-71 45	-71	655	8	8 45.0	-71	46.3	8.8	✓		
8 7	-71 28	-71	650	8	7 30	-71	27.0	9.0	✓		
8 2	-71 48	-71	643	8	2 10.5	-71	49.5	8.3	✓		
7 58	-71 38	-71	640	7	58 17.5	-71	39.2	9.0	✓		
7 57	-71 38	-71	633	7	57 10.0	-71	39.1	8.3	✓		
7 52	-71 42	-71	624	7	52 27.0	-71	41.1	8.6	✓		
7 12	-72 7	-72	576	7	12 22.0	-72	7.8	8.0	✓		
7 9	-72 0	-72	569	7	9 19.0	-72	0.6	9.1	✓		
6 58	-71 50	-71	506	6	58 56.0	-71	51.7	7.8	✓		
6 43	-71 45	-71	480	6	44 4.0	-71	45.6	8.6	✓		
6 43	-71 38	-71	476	6	42 51.0	-71	38.8	7.7	✓	6 42.4 - 71 41 50	
6 35	-71 33	-71	460	6	35 5.0	-71	32.9	8.6	✓		
6 31	-71 24	-71	449	6	31 14.0	-71	24.9	8.2	✓		
7 43	-72 18	-72	627	7	43 19.5	-72	18.2	6.0	✓	7 43.0 - 72 22 50	
7 41	-72 17	-72	622	7	41 25.0	-72	17.3	8.8	✓		
7 34	-72 18	-72	611	7	34 42.5	-72	18.6	8.4	✓		
7 17	-72 30	-72	582	7	17 42.3	-72	30.7	8.0	✓		
7 3	-72 22	-72	551	7	3 3.0	-72	22.4	7.7	✓		
6 36	-72 10	-72	508	6	36 15.5	-72	9.8	8.3	✓		
6 30	-71 55	-71	446	6	29 44.0	-71	56.3	8.2	✓		
6 20	-72 5	-72	469	6	20 25.0	-72	4.4	8.0	✓		
8 19	-72 24	-72	683	8	19 40.5	-72	23.7	8.8	✓		
8 13	-72 48	-72	669	8	13 36.0	-72	48.1	8.1	✓		
8 0	-72 54	-72	654	8	0 49.0	-72	53.7	6.4	✓	8 0.5 - 72 5 50	Correct if 20.8 intended.
7 56	-72 45	-72	650	7	56 53.0	-72	46.1	9.0	✓		
7 40	-72 52	-72	619	7	40 18.0	-72	52.8	9.1	✓		
7 35	-72 45	-72	614	7	35 46.4	-72	46.4	9.4	✓		
7 29	-72 49	-72	600	7	29 15.0	-72	50.0	8.8	✓		

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Sept. 21, 1903

Plate B9003

	No.	H	Cl.	Rem.	L.	K.	Int.	Br.	Photom. Magn.	Diff.
✓	20.4	17.5	G5	K	K	10	1	{4.18 4.50}		
✓	20.9	20.1	G5	K	K	12	3	{2.90 3.26}	6.33	
✓	21.7	5.9	A		λ	K	4	1.50	5.40	
✓	21.6	7.9	A		ε	K	1	4.02		
✓	21.9	11.2	F	5314	K	10	1	4.30		
✓	21.4	17.4	K		K	10	1	{3.92 4.20}		
✓	21.2	19.2	F	5315	K	10	1	3.85		
✓	22.3	7.1	A		Θ	K	3	2.73	6.65	
✓	22.3	11.0	A		ε	K	2	3.60		
✓	22.6	11.4	A		ε	K	1	3.95		
✓	22.5	12.6	A		λ	K	3	2.23	7.16 7.26	
✓	22.6	13.1	F2			10	2	3.20		
✓	22.4	15.6	F	5316	K	10	1	4.00		
✓	22.3	17.3	F	5317	K	10	1	3.90		
✓	22.5	21.2	F	5318	K	10	2	3.81		
✓	23.0	23.8	A		ε	K	3	2.92	6.80	
✓	22.0	24.7	A		ε	K	1	3.45		
✓	23.3	6.0	A		ε	K	1	3.90		
✓	23.2	7.1	A		ε	K	1	4.05		
✓	23.4	13.1	A		γ	K	2	3.33		
✓	23.9	16.1	G		K	10	2	3.62		
9.05 P.M.	✓	23.5	20.4	A		ε	K	1	4.04	

9.55 P.M.

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1875	C.P.D.	1875	1875							
Approx.	Design.	R.A.	Dec.	Mag.	R.A. 1900	Dec. 1900				
3 - 72° 52	-72	5 53	7 3 25.0	-72°	52.9	8.6	✓			
6 46 - 72 59	-72	5 52.2	6 46.5	-72	58.9	7.13	✓	6	46.7	-73 1 50
8 23 - 73 0	-72	694	8 23 9.0	-72	59.9	5.1	✓	8	23.0	-73 5 50
8 8 - 73 6	-73	484	8 9 28.0	-73	6.7	8.3	✓			
7 47 - 73 33	-73	469	7 47 8.0	-73	32.0	8.8	✓			
7 3 - 73 22	-73	423	7 3 50.0	-73	22.0	8.6	✓			
6 51 - 73 10	-73	409	6 51 35.0	-73	9.2	8.1	✓			
8 15 - 73 24	-73	488	8 16 10.0	-73	25.2	6.7	✓	8	15.9	-73 30 54
7 48 - 73 45	-73	471	7 49 3.0	-73	46.5	7.7	✓			
7 46 - 73 58	-73	466	7 46 6.5	-73	57.0	7.8	✓			
7 37 - 74 0	-73	457	7 37 53.5	-73	59.6	6.2	✓	7	37.4	-74 3 50
								7	37.4	-74 3
7 34 - 74 2	-74	447	7 34 2.0	-74	1.1	7.7	✓			
7 16 - 73 56	-73	439	7 16 16.0	-73	55.8	8.5	✓			
	-73	437	7 15 54.0	-73	54.7	8.5				
7 3 - 73 50	-73	424	7 3 56.0	-73	49.9	8.3	✓			
6 35 - 73 38	-73	389	6 36 2.0	-73	38.8	8.1	✓			
6 17 - 73 34	-73	360	6 17 43.0	-73	34.7	6.3	✓	6	17.1	-73 36 54.
6 13 - 73 59	-73	457	6 13 24.5	-73	58.7	7.5	✓			Error in No.?
8 24 - 73 45	-73	500	8 25 4.0	-73	45.3	7.5	✓			
8 17 - 73 49	-73	490	8 17 17.0	-73	50.3	8.3	✓			
7 34 - 74 26	-74	448	7 34 5.0	-74	25.0	7.5	✓			
6 56 - 74 33	-74	421	6 56 45.0	-74	33.9	7.9	✓			
6 40 - 74 12	-74	401	6 40 50.0	-74	11.3	8.8	✓			

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