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Book 31

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Revised Draper Catalogue,

June 30, 1911

Pl. B 22768 $20^{h}\ 55^{m} - 5°$

Nr		Int	Remark
1.	Mb	63	
2.	K5?	84	Near edge
3	Mb	63	
4	A2	84	
5	Ma?	42	Near edge
6	F.	21	
7	F0	84	
8	B5 or 8	84	
9	F2	42	
10	F2	63	
11	F0	63	
12	K	63	
13	A5	84	
14	A3	42	Pos Focus
15	A	63	
16	K	63	
17	Ma	63	
18	A	42	
19	G?	21	
20	K0	63	
21	F0	63	
22	A2	84	
23	A2	42	
24	A2	63	
25	B8?	84	Hel. lines not well seen

−1°	4057	20	41	50.1	−1	5.6	6.8
−0°	4132	20	49	46.1	−0	5.3	6.8
−0°	4163	21	0	7.6	−0	43.6	7.2
−0°	4173	21	1	49.0	−0	49.3	7.3
−0°	4186	21	7	12.0	−0	29.3	6.7
−1°	4073	20	47	24.4	−1	54.0	8.2
−1°	4075	20	47	40.0	−1	55.1	6.7
−1°	4095	20	55	32.0	−1	30.3	6.8
−1°	4098	20	55	38.7	−1	52.9	7.3
−2°	5434	20	55	58.7	−2	8.6	7.0
−1°	4106	20	59	24.7	−1	33.1	7.7
−1°	4108	20	59	54.2	−1	21.1	7.3
−1°	4111	21	0	41.0	−1	33.5	7.0
−1°	4117	21	4	10.3	−1	27.9	7.5
−1°	4131	21	7	13.4	−1	25.1	7.2
−2°	5495	21	9	9.5	−2	12.4	6.8
−3°	5018	20	39	30.8	−3	0.6	6.8
−3°	5017	20	39	16.7	−3	14.3	8.0
−3°	5092	20	53	49.8	−3	4.9	8.0
−2°	5433	20	55	59.9	−2	53.0	7.4
−3°	5101	20	55	51.8	−3	8.6	8.0
−2°	5476	21	~~0 105~~	~~2.3~~	−2	~~37.4 44.3~~	7.0 ~~7.6~~
−2°	5476	21	4	2.3	−2	44.3	7.6
−3°	5160	21	7	31.4	−3	10.1	7.0
−4°	5307	20	48	42.6	−4	6.8	6.9

Surface made out

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B 22768

No		Int	Remarks
26	K	42	
27	Ma?	21	Confirm
28	F	42	
29	A3	84	
30	K?	21	— mm
31	A	21	
32	M	63	
33	K5	63	
34	K?	21	— Too faint
35	M	63	
36	M5	63	
37	A0	63	
38	A5	63	
39	B3?	105	Lines burned out
40	Ma	105	—
41	K2	63	
42	A	42	
43	A2	42	
44	M5?	21	
45	A3	84	
46	M0	84	
47	A0	105	
48	A5?	21	
49	K / Ma?	21	Image defective ch red?
50	A5	105	
51	K7	42	
52	K2	84	

							H.R.	
−4°	5311	20	49	9.5	−4	13.8	7.5	
−3°	5076	20	49	55.2	−3	47.5	8.5	
−3°	5084	20	51	15.2	−3	52.6	7.8	
−4°	5321	20	51	9.5	−4	23.9	7.0	
−4°	5332	20	53	33.2	−4	0.3	8.0	
−4°	5338	20	54	10.2	−4	4.5	8.8	
−4°	5337	20	57	4.1	−4	41.9	7.3	
−4°	5355	20	57	55.6	−4	56.0	7.0	
−4°	5371	21	1	28.9	−4	23.2	8.0	
−4°	5372	21	1	44.1	−4	28.6	7.8	
−3°	5138	21	3	53.8	−3	57.6	8.5	
−4°	5382	21	3	4.04	−4	43.7	8.0	
−4°	5392	21	5	38.2	−4	52.2	7.8	
−5°	5512	21	10	34.0	−5	7.5	6.0	a
−5°	5378	20	40	5.4	−5	33.4	4.2	Ma
−5°	5382	20	40	37.2	−5	9.9	7.5	
−4°	5280	20	43	42.6	−4	49.4	8.0	
−5°	5401	20	44	10.0	−5	20.0	8.5	
−5°	5402	20	44	40.1	−5	14.5	8.5	
−5°	5410	20	46	26.6	−5	5.2	6.7	
−5°	5433	20	52	55.9	−5	17.1	6.0	F8
−6°	5650	20	52	53.1	−6	2.4	6.5	
−5°	5434	20	53	1.3	−5	55.3	8.0	
−5°	5447	20	55	45.5	−5	56.5	8.0	
−6°	5664	20	56	24.0	−6	23.4	6.0	F5
−6°	5683	21	0	2.7	−6	9.0	7.8	
−6°	5690	21	1	18.6	−6	9.9	7.0	

Leaves made out

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June 30, 1911
B 22 768 Cont

No		Int	Remark
53	Q0	42	
54			Too faint
55	Q	63	
56	Q5	63	
57	Q2	63	
58	K2	63	
59	#5	84	
60	Q	105	
61	#	84	
62	Q	63	
63	Q3	42	

						H.R.
−5°	5483	21	1	40.1	−5 32.2	8.5
−6°	5706	21	4	18.8	−6 24.1	7.8
−6°	5705	21	4	18.6	−6 33.4	8.3
−6°	5712	21	5	58.2	−6 20.6	7.5
−6°	5719	21	6	55.4	−6 33.6	8.2
−6°	5720	21	7	24.9	−6 8.7	7.0
−6°	5604	20	43	44.8	−6 9.7	6.5 #
−6°	5616	20	44	29.3	−6 2.8	6.0 B8
−7°	5433	20	46	14.9	−7 25.8	6.5 #
−8°	~~5529~~	20	~~49~~ 51	~~53.5~~ 23.4	−8 ~~27.7~~ 15.8	7.3
−7°	5460	20	51	23.4	−7 27.7	7.8

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June 30. 1911

B 14379 Shut disp. Classification of Few Stars

Same identification as plate of same numbers on preceding plate, B 22788.

no		Int	Remarks
19	G2	84	Too Poor
27	Ma	84	
30	K2	63	
43	A3	84	
44	Ko	63	
48	F	84	
49	K	84	

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July 7, 1911

B10311 Short dispersion

11h 03

No.	Class	Dist.	Rem.
1	A	42	Only hyd. seen
2	A	63	" "
3	K0	42	
4	F10	63	
5	A5	42	
6	F0	84	
7	F8	84	
8	K2	42	
9	G5	42	
10	A	42	Only hyd. seen
11	K	42	
12	G	42	
13	A	42	Only hyd.
14	F?	42	Specks poor
15	F?	84	" "
16	A5	63	
17	A5	42	
18	A3	63	
19	A2	42	
20	G	42	
21	A2:	42	
22	G:	42	

+7°	443	2	46	39.9	+7	5.0	7.7	✓
+6°	406	2	45	2.0	+5	52.4	7.9	✓
+5°	420	2	48	25.0	+5	35.5	7.5	✓
+6°	460	2	51	44.0	+6	4.9	7.8	✓
+6°	470	2	56	16.3	+6	42.9	8.3	✓
+5°	443	2	55	49.0	+5	39.7	7.2	✓
+5°	444	2	56	8.8	+5	33.5	8.0	✓
+5°	447	2	57	59.6	+5	33.2	7.8	✓
+6°	485	3	0	43.5	+6	9.7	7.9	✓
+6°	488	3	0	14.7	+6	41.2	8.0	✓
+5°	377	2	33	30.1	+5	27.1	8.0	✓
+5°	386	2	36	56.1	+5	2.1	8.2	✓
+5°	387	2	37	6.4	+5	9.4	8.3	✓
+4°	439	2	38	38.1	+4	58.8	8.2	✓
+4°	437	2	37	46.6	+4	5.6	7.2	✓
+5°	402	2	43	51.1	+5	14.6	7.9	✓
+4°	453	2	44	36.9	+4	54.9	8.2	✓
+4°	458	2	46	38.3	+4	27.5	7.8	✓
+4°	471	2	49	43.1	+4	54.7	8.1	✓
+5°	435	2	52	52.6	+5	24.5	8.2	✓
+5°	434	2	52	34.5	+5	3.0	8.3	✓
+4°	480	2	53	18.4	+4	42.9	8.4	✓

Sats made only

A K=H F

A K=H

A K=H

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B10311

23	g_0	84	
24	a_0	84	
25	g?	42	Too poor.
26	f_{10}	42	
27	g?	42	Focus too poor.
28	g_5	42	" " "
29	a	42	Only hy d. seen
30	g?	42	Focus poor.
31	a_2	42	
32	a_0	42	
33	f_5	63	
34	a_3	42	
35	g_0	42	
36	f_{10}	84	
37	a	63	Only hy d. seen
38	ma	63	
39	f_5	63	
40	g?	21	
41	B8?	21	
42	a	21	Only hy d. seen
43	K	105	Binned mt.
44	B	10^5	
44a	K	21	
45	a_0	63	
46	a_2	63	

+4°	485	2	54	15.2	+4	46.4	7.0	
+4°	486	2	55	2.6	+4	37.2	8.0	
+5°	450	2	58	55.2	+5	4.0	8.3	
+5°	451	2	59	11.9	+5	5.0	8.5	
+4°	501	3	1	59.4	+4	38.3	8.6	
+2°	412	2	33	15.8	+2	15.6	7.8	
Prismatic Companion of +2° 422								
+2°	425	2	36	19.5	+2	12.4	8.3	
+2°	432	2	40	23.7	+2	34.1	8.8	
+3°	387	2	41	24.3	+3	28.8	8.0	
+2°	438	2	43	50.3	+2	27.9	8.0	
+2°	440	2	44	21.1	+2	19.6	8.8	
+2°	445	2	46	48.8	+2	43.8	8.3	
+2°	450	2	47	35.3	+2	54.3	7.5	
+3°	407	2	48	40.0	+3	26.1	8.2	
+3°	410	2	49	30.2	+3	57.5	6.8	
+3°	411	2	49	37.0	+3	5.4	7.8	
+2°	456	2	49	13.7	+2	54.8	8.5	
+2°	460	2	52	0.6	+2	56.4	8.3	
+2°	464	2	54	9.6	+2	58.3	8.7	
+3°	419	2	54	43.8	+3	31.1	2.5	
+3°	420	2	54	47.7	+3	46.5	7.3	
Prismatic Companion of +3° 419								
+2°	465	2	54	18.1	+2	34.1	8.5	
+3°	431	2	58	48.5	+3	14.4	8.0	

Cards made

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B 1031.1

47	F0	42	
48	F8	42	
49	A0	63	
50	A3	63	
51	A0	63	
52	F0	63	
53	A	63	Focus poor
54	G5	84	" "
55	K	63	
56	F5	63	
57	F5	42	
58	K5	63	
59	K	21	
60	A3	63	
61	G0	63	
62	F5	63	
63	G0	63	
64	A0	84	Forbes very diff.
65	G0	63	
66	K0	42	
67	K0	42	
68	A0	42	
69	G5	42	
70	F?	21	Omit
71	A3	84	
72	A	21	Only hyd

+2°	477	2	58	53.5	+2	43.6	8.0	✓
+2°	473	2	57	31.3	+2	22.6	8.2	✓
+2°	478	2	59	16.7	+2	8.6	7.8	✓
+2°	482	3	0	14.6	+2	50.6	8.1	✓
+2°	488	3	1	41.9	+2	41.5	8.2	✓
+2°	491	3	2	24.1	+2	29.9	7.7	✓
+2°	498	3	5	18.1	+2	8.9	8.3	✓
+1°	561	3	3	25.3	+1	45.5	7.5	✓
+1°	487	2	40	10.4	+1	5.7	8.2	✓
+0°	459	2	39	59.9	+0	27.5	8.3	✓
+1°	497	2	42	50.4	+1	50.7	8.5	✓
+1°	503	2	43	57.1	+1	35.3	7.5	✓
+1°	494	2	42	10.3	+1	11.5	8.5	✓
+1°	502	2	43	47.7	+1	5.7	7.8	✓
+0°	469	2	42	10.9	+0	19.2	7.3	✓
+0°	471	2	42	52.4	+0	21.8	8.0	✓
+1°	509	2	46	9.1	+1	23.6	7.0	✓
+1°	512	2	48	3.1	+1	27.0	7.8	✓
+1°	515	2	49	44.8	+1	19.1	7.8	✓
+1°	517	2	51	7.6	+1	32.5	7.5	✓
+1°	520	2	51	56.0	+1	4.0	8.0	✓
+0°	490	2	51	48.8	+0	39.7	8.5	✓
+0°	495	2	52	50.6	+0	24.6	8.3	✓
+0°	497	2	53	~~16.7~~ 20.4	+0	2.5.5	8.5	
+0°	499	2	53	58.3	+0	34.8	8.0	✓
+1°	528	2	54	7.6	+1	36.7	8.8	✓

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73	K0	42	
74	G?	21	Omit.
75	G0	84	
76	G	21	
77	K	21	
78	F8	21	
79	F8	42	
80	K	42	
81	K0	63	
82	F5	21	Omit.
83	F	63	
84	A	21	
85	K0	42	
86	F2	63	
87	A2	63	
88	G5	84	
89	K0	63	
90	F	21	
91	A8F0	84	Re-examined Aug 23, 1913.
92	G	42	
93	G	63	
94	G	42	
95	K	21	
96	G	42	
97	G5	42	
98	A	63	only high. rem

+0°	503	2	55	42.1	+0	47.0	8.0	
+0°	506	2	56	0.4	+0	57.2	9.0	
+1°	534	2	57	9.8	+1	19.0	6.5	
+1°	536	2	57	46.8	+1	20.4	8.3	
+1°	545	2	59	8.8	+1	31.5	8.5	
+1°	550	3	0	12.0	+1	16.9	8.5	
+0°	511	2	57	47.1	+0	17.2	8.3	
+0°	515	2	58	30.3	+0	38.8	8.2	
+0°	522	3	0	12.4	+0	51.0	7.8	
+0°	529	3	1	30.3	+0	33.4	8.6	
+0°	531	3	2	21.4	+0	56.2	8.1	
Prismatic Companion of −0° 406								
−0°	443	2	44	5.9	−0	30.7	8.0	
−1°	398	2	44	1.8	−1	15.7	8.0	
−1°	401	2	44	47.8	−1	13.6	8.0	
−0°	450	2	47	21.8	−0	38.2	6.8	
−0°	451	2	47	48.9	−0	8.5	7.7	
−0°	457	2	48	47.4	−0	4.4	8.8	
−0°	460	2	49	44.6	−0	8.3	7.5	
−0°	464	2	50	25.7	−0	10.1	8.7	
−1°	419	2	49	47.3	−1	8.7	7.5	
−1°	428	2	52	30.0	−1	15.6	8.2	
−1°	429	2	52	43.1	−1	15.7	8.2	
−0°	471	2	52	42.3	−0	20.3	8.6	
−0°	480	2	53	18.1	−0	42.2	8.6	
−0°	498	3	3	10.0	−0	20.0	7.3	

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July 7, 1911

B 10311 11.43

99	K	63	Fraunhofer.	-0°	50.3	3	4	38.5	-0 25.9 8.0 ↓
100	K	63		-1°	45.1	3	4	18.2	-1 2.3 7.8 ↓
~~101~~									
~~102~~									
Apr. 3, 1916	101	H_0	1						

cards made out by Mr. C. W.

+0 47.8 2 44.5 +0 42 8.8 25 m B 10409

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October 19, 1911

June 10. 40

I 1964 3

No	Class	Inst.	Remarks
1	K	42	
2	Q0	84	
3	F5	21	
4	G0	63	
5	Q2	21	
6	Q2	63	
7	F5	42	
8	G0	63	
9	F8	63	
10	Q2	63	
11	VQ5	42	
12	G	42	
13	Q2	63	
14	Q	42	
15	G0	84	
16	Q0	42	
17	F5?	21	Focus very poor
18	G5	63	
19	K0	84	
20	Q3	84	
21	G	21	
22	Q5	84	
23	G5	63	
24	F5?	42	Focus very poor
25	F8?	21	very poor
26	G5	63	
27	?	42	very poor
28	Ma	63	

	R.A.	Dec.	Dm.	(1855) R.A.	(1855) Dec.	Magn.	
1	0 7.6	+20 44.2	+20° 15	0 7 27.6	+20 43.4	7.2	✓
2	0 7.7	+21 30	+21° 13	0 7 26.4	+21 28.3	6.0	✓
3	0 8.1	+22 15	+22° 39	0 8 1.5	+22 14.2	8.3	✓
4	0 9.1	+22 35	+22° 34	0 9 24.5	+22 27.6	6.5	✓
5	0 9.3	+22 36	+22° 35	0 9 35.0	+22 27.5	8.7	✓
6	0 9.8	+22 48	+22° 36	0 9 43.1	+22 47.2	8.0	✓
7	0 10.9	+22 6	+22° 40	0 10 53.4	+22 4.3	7.8	✓
8	0 11.1	+22 4	+22° 42	0 11 9.0	+22 4.3	7.0	✓
9	0 15.2	+21 38	+21° 33	0 15 26.4	+21 34.9	7.5	✓
10	0 17.9	+22 8	+22° 58	0 18 6.8	+22 8.4	7.7	✓
11	0 18.1	+21 52	+21° 41	0 18 12.6	+21 54.0	8.2	✓
12	0 20.6	+21 16	+21° 46	0 20 8.9	+21 17.3	8.0	✓
13	0 20.9	+22 47	+22° 66	0 20 19.0	+22 45.8	7.9	✓
14	0 23.2	+22 40	+22° 72	0 23 0.0	+22 40.9	8.4	✓
15	0 24.9	+22 27	+22° 79	0 25 3.5	+22 23.2	7.5	✓
16	0 29.0	+21 12	+21° 76	0 28 51.4	+21 13.6	8.2	✓
17	0 27.2	+22 6	+22° 86	0 27 18.3	+22 6.0	8.5	✓
18	0 28.9	+23 10	+23° 82	0 28 32.1	+23 14.4	7.0	✓
19	0 29.2	+23 12	+23° 84	0 29 29.2	+23 13.0	6.0	✓
20	0 32.8	+23 20	+23° 92	0 32 41.4	+23 15.4	6.5	✓
21	0 33.0	+23 50	+23° 93	0 32 52.0	+23 47.8	8.0	✓
22	0 34.1	+23 51	+23° 94	0 33 56.5	+23 50.8	6.0	✓
23	0 4.9	+22 40	+22° 14	0 4 32.5	+22 40.6	6.0	✓
24	0 3.9	+23 2	+23° 10	0 3 57.6	+23 0.9	8.0	✓
25	0 7.2	+22 58	+22° 26	0 7 21.2	+22 59.8	8.0	✓
26	0 13.0	+23 52	+23° 38	0 12 43.2	+23 52.2	7.0	✓
27	0 13.5	+24 8	+24° 30	0 13 31.8	+24 9.0	8.4	✓
28	0 13.6	+24 36	+24° 31	0 13 37.4	+24 31.7	7.5	✓

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October 19, 1911 (cont.)
I 1964 3

No.	Class	Dur.	Remark
29	Ao	63	
30	K	42	very poor
31	K5	63	
32	K5	42	
33	F5	84	
34	K	42	
35	A	21	
36	F8	63	
37	Ao	42	
38	K5	42	
39	K5	42	
40	K	21	
41	F?	42	
42	F5?	42	
43	Bo	63	
44	K	42	
45	Ma	21	
46	F	21	
47	F	21	
48	K	21	
49	F5	42	Focus poor ✓
50	A2	63	
51	Bo	42	
52	Ko	42	
53	K	21	
54	F8	63	
55	F	42	
56	A2	42	

Identical with D 17222 check dep. as, + 25°087
+25°88 chance each in Dp. K-2

No.	R.A.	Dec. (Apparent)	Dm.	R.A.	Dec.	Magn.	
29	0 14.9	+23° 54	+23° 43	0 14 45.1	+23 52.9	7.3	✓
30	0 17.6	+23 48	+23° 52	0 17 34.1	+23 46.7	8.2	✓
31	0 19.1	+23 52	+23° 56	0 18 49.1	+23 51.1	7.2	✓
32	0 19.4	+23 49	+23° 58	0 19 18.6	+23 49.7	8.0	✓
33	0 19.5	+24 12	+24° 52	0 19 28.6	+24 14.2	6.5	✓
34	0 19.7	+24 45	+24° 53	0 19 38.6	+24 47.2	7.2	✓
35	0 21.2	+24 10	+24° 61	0 20 49.7	+24 7.8	8.5	✓
36	0 ~~22.1~~ 21.7	+24 6	+24° 66	0 21 56.5	+24 5.5	7.5	✓
37	0 22.9	+23 20	+23° 66	0 22 55.1	+23 18.1	8.0	✓
38	0 26.3	+24 40	+24° 80	0 26 15.6	+24 38.3	7.9	✓
39	0 27.8	+24 20	+24° 83	0 27 46.6	+24 18.9	7.5	✓
40	0 29.1	+24 25	+24° 87	0 29 12.4	+24 22.7	8.0	✓
41	0 31.5	+24 27	+24° 88	0 30 23.1	+24 22.2	8.3	✓
42	0 31.8	+24 38	+24° 90	0 31 18.8	+24 33.0	8.3	✓
43	0 1.9	+24 38	+24 3	0 1 24.6	+24 39.2	6.3	✓
44	0 2.1	+24 31	+24 4	0 1 46.6	+24 29.0	8.0	✓
45	0 3.1	+24 28	+24 6	0 2 38.4	+24 24.5	8.0	✓
46	0 3.3	+24 47	+24 7	0 2 45.1	+24 44.1	8.3	✓
47	0 5.0	+23 50	+23° 12	0 5 4.1	+23 49.9	8.0	✓
48	0 6.4	+24 54	+24° 17	0 6 33.4	+24 51.8	8.3	✓
49	0 7.6	+24 28	+24° 20	0 7 46.6	+24 35.5	8.6	✓
50	0 11.1	+25 26	+25 29 ~~+24° 61~~	0 10 58.8 ~~0 13 37.4 +24 61.7~~	+25 21.1	7.0	✓
51	0 11.8	+25 39	+25° 34	0 11 50.5	+25 39.7	7.3	✓
52	0 13.4	+25 40	+25° 37	0 13 13.8	+25 41.1	8.9	✓
53	0 17.2	+25 36	+25° 46	0 16 50.0	+25 35.5	8.4	✓
54	0 19.4	+25 28	+25° 55	0 19 50.8	+25 29.3	7.5	✓
55	0 21.6	+25 40	+25° 61	0 21 49.5	+25 42.4	7.9	✓
56	0 30.0	+25 22	+25 87	0 30 6.6	+25 18.8	8.3	✓

Same

Same

Same

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October 19, 1911 (Cont)

I 1964[3]

No.	Class	Int	Remark
57	K	42	
58	F5:	42	
59	A2	42	
60	F	63	
61	F	63	
62	G	42	On edge
63	F5	63	
64	F5	8 ~~1~~ 4	
65	A	84	Only hyd. seen
66	A	21	
67	K	21	
68	A	42	
69	G	42	
70	K	42	
71	F5	63	
72	F	21	Omit unless confirmed
72a ~~73~~	K	21	
73	A0	42	
74	F5:	42	
75	F8	42	
76	A2	42	
77	G	21	
78	A0	84	
79	G0	84	
80	A5	21	
81	B8	84	
82	F2	42	
83	A2	63	

								Magn.	
~~57~~									
~~58~~	57	0 31.4	+ 25 36	+25°	~~89~~ 92	0 ~~30 8.9~~ 31 19.8	+ 25 31.1 [8]	~~8.5~~ 6.5	✓
~~59~~	58	0 32.5	+ 25 52	+25°	~~93~~ 96	0 ~~31 48.7~~ 32 37.0	+ 25 55.6 [2]	~~8.6~~ 7.8	✓
~~60~~	59	0 34.1	+ 26 27	+26°	103	0 34 2.6	+ 26 23.3	8.0	✓
~~61~~	60	0 34.9	+ 26 52	+26°	108	0 34 46.6	+ 26 50.8	7.2	✓
~~62~~	61	0 33.9	+ 27 15	+27°	103	0 33 42.8	+ 27 14.7	8.2	✓
~~63~~	62	23 59.8	+ 25 37	+25°	5073	23 59 55.6	+ 25 39.4	7.2	✓
~~64~~	63	0 6.4	+ 25 28	+25°	18	0 6 39.2	+ 25 27.3	7.4	✓
~~65~~	64	0 5.9	+ 26 10	+26°	13	0 5 55.8	+ 26 10.4	6.5	✓
~~66~~	65	0 7.6	+ 26 30	+26	23	0 7 42.2	+ 26 28.0	6.5	✓
~~67~~	66	0 10.2	+ 25 48	+25	27	0 10 13.9	+ 25 46.6	8.8	✓
~~68~~	67	0 13.8	+ 26 8	+26°	40	0 13 58.4	+ 26 8.7	7.5	✓
~~69~~	68	0 14.3	+ 26 20	+26°	42	0 14 26.7	+ 26 23.4	8.1	✓
~~70~~	69	0 14.0	+ 26 54	+26	39	0 13 47.6	+ 26 55.2	8.3	✓
~~71~~	70	0 14.5	+ 27 12	+27°	45	0 14 11.8	+ 27 9.6	8.2	✓
~~72~~	71	0 13.6	+ 27 30	+27°	43	0 13 52.8	+ 27 31.2	8.0	✓
~~73~~	72	0 14.4	+ 27 26	+27°	46	0 14 17.0	+ 27 27.6	8.5	✓
~~74~~	72a	0 15.6	+ 27 18	+27°	52	0 17 36.2	+ 27 16.3	8.5	✓
~~75~~	73	0 20.6	+ 27 24	+27°	64	0 20 12.5	+ 27 22.7	7.9	✓
~~76~~	74	~~0 21.0~~ 0 18.4	~~+ 27 14~~ + 26 22	+26°	57	0 19 13.7	+ 26 22.8	8.2	✓
~~77~~	75	0 21.0	+ 27 14	+27°	68	0 20 41.1	+ 27 15.0	8.1	✓
~~78~~	76	0 23.0	+ 27 15	+27°	71	0 22 50.2	+ 27 15.7	8.2	✓
~~79~~	77	0 24.8	+ 26 50	+26°	72	0 24 23.1	+ 26 50.9	8.4	✓
~~80~~	78	0 25.1	+ 26 48	+26°	76	0 24 57.5	+ 26 46.2	6.8	✓
~~81~~	79	0 25.8	+ 27 30	+27°	84	0 25 10.6	+ 27 29.3	7.0	✓
~~82~~	80	0 28.0	+ 26 30	+26°	88	0 28 0.6	+ 26 28.8	9.0	✓
~~83~~	81	0 28.9	+ 26 28	+26°	91	0 28 42.2	+ 26 27.4	6.5	✓
	82	0 29.3	+ 26 22	+26°	92	0 29 4.6	+ 26 14.4	8.0	✓
	83	0 1.9	+ 27 28	+27°	3	0 1 31.8	+ 27 26.2	7.0	✓

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October 19. 1911 (Cont.)

I 1967 3

No.	Class	Dist	Remark
~~84~~	~~B8~~	~~3~~	Maybe trail of bright star. This is a trial
85	M6	42	
86	F8	42	
87	F2	63	Focus poor.
88	F5	63	
89	Q04	63	Focus too poor.
90	F	84	
91	Boo	105	

June 11:08

Feb 15, 16. 92 1 95

~~84~~	~~0~~	~~2.0~~	~~+~~	~~28~~	~~20~~							
85	0	2.9	+	27	50	+27°	7	0	2	57.8	+ 27	50.8	7.9
86	0	4.5	+	27	40	+27°	12	0	4	22.6	+ 27	37.2	7.7
87	0	4.7	+	27	46	+27°	13	0	4	31.5	+ 27	48.0	7.3
88	0	7.8	+	27	47	+27°	25	0	7	49.5	+ 27	46.9	8.0
89	0	15.3	+	28	38	+28°	49	0	15	15.8	+ 28	39.5	7.5
90	0	22.4	+	28	56	+28	75	0	22	30.4	+ 28	57.1	5.9
91	0	31.1	+	28	30	+28	103	0	30	56.5	+ 28	31.1	4.5

Cards made out

Ident. by A. M. C.
Checked " J. C. M.

✓ 92 +26° 65 0 21.8 +26 4 8.3

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October 19, 1911

I 19788

June 11.15

No	Class	Int	Remarks
1	F8?	63	Focus very poor
2	F5?	42	"
3	Ma?	63	
4	B5?	63	
5	Ma?	63	
6	F5	42	
7	A	42	
8	F8	63	
9	A5	21	
10	A2	42	
11	A5	84	
12	A2	42	
13	G0	42	
14	A	42	
15	F5	105	
16	A0	84	
17	K	21	
18	F5	42	
19	F8	21	
20	F5	21	
21	F	21	
22	B5	42	
23	A0	84	
24	K0	42	
25	B5	84	
26	F	42	
27	A3	42	

	R.A.	Dec.				magn.	
1	0 24.6	+17 20	+17°	66	0 24 18.5	+17 17.6	8.1	✓
2	0 25.7	+17 42	+17°	68	0 25 25.7	+17 35.3	8.5	✓
3	0 24.9	+17 56	+17°	67	0 24 58.6	+17 57.0	7.1	✓
4	0 24.4	+18 40	+18° 66 / +17 64		0 24 10.5 / 0 25 20.7	+18 37.5 / +17 35.3	8.0 / 8.3	✓
5	0 24.8	+18 52	+18°	67	0 24 21.0	+18 50.4	7.0	✓
6	0 31.4	+18 54	+18°	85	0 30 45.5	+18 54.3	7.8	✓
7	0 33.5	+18 36	+18°	93	0 33 40.0	+18 35.7	8.3	✓
8	0 33.8	+19 24	+19°	105	0 34 2.5	+19 20.3	7.7	✓
9	0 34.2	+19 27	+19	106 / 115	0 34 17.9	+19 38.6	8.8	✓
10	0 38.1	+19 28	+19	121	0 38 58.2	+19 24.2	8.3	✓
11	0 39.0	+18 48	+18°	101	0 39 35.0	+18 48.0	6.3	✓
12	0 39.6	+18 8	+18°	103	0 39 56.2	+18 6.6	7.5	✓
13	0 41.2	+17 51	+17°	105	0 41 7.0	+17 53.4	7.5	✓
14	0 41.3	+17 34	+17°	106	0 41 10.2	+17 31.7	7.5	✓
15	0 41.6	+16 15	+16°	76 / 203	0 41 23.2	+16 9.4	5.7	✓
16	0 46.8	+18 26	+18°	122	0 46 55.4	+18 24.1	6.0	✓
17	0 44.0	+18 24	+18°	117	0 45 48.5	+18 18.2	8.5	✓
18	0 43.9	+18 57	+18°	116	0 45 36.7	+18 58.8	7.5	✓
19	0 46.9	+19 22	+19°	140	0 46 28.4	+19 17.3	8.1	✓
20	0 49.6	+19 8	+19°	152	0 49 28.4	+19 5.5	8.5	✓
21	0 50.0	+20 18	+20°	130	0 50 13.7	+20 13.8	8.5	✓
22	0 49.2	+20 40	+20°	129	0 49 45.7	+20 41.8	7.0	✓
23	0 50.2	+20 38	+20°	131	0 50 36.4	+20 36.6	6.5	✓
24	0 53.2	+20 30	+20°	139	0 52 44.9	+20 26.8	6.9	✓
25	0 24.9	+19 28	+19°	79	0 24 59.4	+19 30.1	5.5	✓
26	0 26.3	+19 35	+19°	83	0 26 3.9	+19 38.8	7.5	✓
27	0 28.8	+20 24	+20°	76	0 28 51.3	+20 15.6	8.0	✓

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October 19, 1911 (Cont.)

I 19788

No	Class	Int	Remark
28	K5	63	
29	Ko	42	
30	K5	84	
31	Ko	84	
32	K8	63	
33	K8	84	
34	K5	42	
35	K5	63	
36	K	42	
37	Ko	42	
38	K5	63	
39	Ko	84	Faces [illegible]
40	A2	63	
41	A0	63	
42	B8?	42	
43	K	42	
44	A3	42	
45	Ko	84	
46	K5	42	
47	K	105	Burned out
48	B	42	
49	mb	63	
50	K5?	63	Faces Ko [illegible]

June 11.30

Cont. in 102, 162

	R.A.	Dec.				magn.	
28	0 30.6	+20 20	+20 8.2	0 30 4.2	+20 18.5	7.5	✓
29	0 30.9	+20 56	+20 8.4	0 31 9.2	+20 57.0	8.2	✓
30	0 31.8	+20 30	+20 8.5	0 31 49.6	+20 28.4	6.2	✓
31	0 32.5	+20 40	+20 8.7	0 32 18.6	+20 39.6	5.5	✓
32	0 36.6	+20 50	+20° 10.3	0 39 5.9	+20 50.3	7.3	✓
33	0 40.8	+20 10	+20° 10.5	0 40 14.3	+20 7.5	6.5	✓
34	0 43.0	+20 20	+20° 11.1	0 42 52.5	+20 22.7	7.5	✓
35	0 43.7	+20 36	+20° 11.7	0 44 46.4	+20 36.9	7.5	✓
36	~~0 41.2~~ 0 46.8	~~+20~~ 30	+20° 12.5	0 47 ~~16.2~~ 19.6	+20 ~~31.7~~ 17.2	~~8.8~~ 8.3	✓
37	0 28.9	+21 18	+21° 7.0	0 28 51.4	+21 13.6	8.2	✓
38	0 28.6	+23 15	+23° 8.2	0 28 32.1	+23 14.4	7.0	✓
39	0 29.8	+23 15	+23° 8.4	0 29 29.2	+23 13.6	6.6	✓
40	0 33.0	+20 18	+23° 9.2	0 32 41.4	+23 15.4	6.5	✓
41	0 37.6	+22 50	+22° 11.3	0 37 33.6	+22 48.2	7.0	✓
42	0 43.3	+22 8	+22° 13.4	0 43 21.8	+22 4.5	8.0	✓
43	0 43.8	+21 50	+21° 11.1	0 43 55.2	+21 50.1	7.0	✓
44	0 46.2	+21 46	+21° 11.6	0 46 23.7	+21 40.4	8.4	✓
45	0 47.1	+22 49	+22° 14.6	0 47 14.1	+22 50.6	6.0	✓
46	0 47.3	+22 40	+22° 14.7	0 47 25.2	+22 37.6	8.0	✓
47	0 49.7	+22 37	+22° 15.3	0 49 29.3	+22 38.7	4.5	✓
48	0 47.2	+23 22	+23° 12.5	0 47 18.4	+23 18.1	7.5	✓
49	0 47.5	+23 50	+23° 12.6	0 47 29.7	+23 46.3	6.8	✓
50	0 49.6	+23 47	+23° 13.4	0 50 43.3	+23 43.9	8.0	✓

Plate Cy. A.M.G.

Checked by J.C.M.

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October 24. 1911

Plate I 19385

Time 10:00

no	Class	Dist.	Remarks
1	A_0	84	
2	G	63	
3	G_2	21	
4	G_0	63	
5	G_5	42	
6	F_5	42	
7	F_5	42	
8	A	42	
9	K_5	63	Overexposed edge
10	G_5	42	
11	Comp	84	Bright = γ_2 Faint = α_1
12	K_0	84	
13	G	42	
14	F_2	105	Burned spot
15	F	63	
16	K_0	84	
17	$F_{2?}$	63	
18	F	21	
19	$A_{2?}$	21	
20	A	21	
21		21	Too faint
22	K_0	63	
23	F_2	84	
24	A_3	42	
25	F_8	42	
26	K_0	42	

		Dm no.	R.A. 1855	Dec. 1855		
1	♂ 21.9 +22 6	+22° 236	1 21 46.1	+22 4.3	6.5	✓
2	♂ 21.8 +22 56	+22° 238	1 21 54.6	+22 56.3	7.5	✓
3	♂ 25.2 +22 58	+22° 245	1 25 3.5	+22 58.4	8.6	✓
4	♂ 25.6 +23 20	+23° 204	1 25 22.8	+23 13.3	7.3	✓
5	♂ 25.8 +22 48	+22° 246	1 25 33.2	+22 50.6	7.4	✓
6	♂ 29.9 +21 46	+21° 220	1 29 41.9	+21 49.5	8.0	✓
7	♂ 30.2 +21 8	+21° 222	1 30 4.3	+21 9.3	7.0	✓
8	♂ 31.4 +21 10	+21° 224	1 30 58.3	+21 11.7	7.4	✓
9	♂ 31.3 +20 36	+20° 264	1 30 41.4	+20 40.5	6.5	✓
10	♂ 33.0 +22 15	+22° 257	1 33 9.7	+22 17.9	7.0	✓
11	1 42.0 +21 34	+21° 273	1 42 9.2	+21 32.8	6.0	✓
12	1 47.8 +22 52	+22° 284	1 47 47.7	+22 52.4	6.5	✓
13	1 48.9 +22 26	+22° 287	1 48 45.5	+22 20.4	8.0	✓
14	1 50.0 +22 50	+22° 288	1 49 52.6	+22 53.2	5.0	✓
15	1 53.9 +22 42	+22° 296	1 53 30.1	+22 41.4	7.0	✓
16	1 21.8 +24 35	+24° 222	1 21 26.9	+24 31.6	6.5	✓
17	1 22.7 +25 8	+25° 258	1 22 39.8	+25 8.7	7.0	✓
18	1 22.8 +25 40	+25° 257	1 22 39.6	+25 36.0	6.0	✓
19	1 23.0 +25 45	+25° 259	1 22 49.9	+25 44.5	8.3	✓
20	1 22.0 +24 30	+24° 231	1 25 57.7	+24 28.5	8.8	✓
21	1 28.4 +24 42					
22	1 30.6 +24 28	+24° 239	1 29 28.2	+24 26.5	7.3	✓
23	1 33.4 +25 4	+25° 276	1 33 14.7	+25 0.5	6.0	✓
24	1 34.0 +25 6	+25° 288	1 36 44.1	+25 3.5	7.3	✓
25	1 39.2 +25 12	+25° 295	1 38 40.2	+25 11.4	7.3	✓
26	1 39.3 +25 27	+25° 297	1 38 57.1	+25 26.2	7.0	✓

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October 24, 1911 (Cont)

Plate I 1938

No	Class	Int.	Remark
27	B8	84	
28	A0	42	
29	A0	42	
30	A5	63	
31	K5	63	
32	A3	63	
33	K5	42	
34	A	21	
35	K5	21	
36	A2	21	
37	K	105	Burned out.
38	K5	42	
39	K5	42	On edge.
40	A0	42	
41	A5	21	
42	A	21	
43	B	21	
44	A0	42	
45	K	21	
46	B8	42	
47	A5	42	
48	K5	63	
49	K2	63	
50	K5	63	
51	A	21	
52	K	21	
53	K5	21	

27	1 41.6	+25 54 2	+25°	305	1 41	20.6	+25 45.8	6.5 ✓
28	1 41.4	+24 34 0	+24°	264	1 41	7.4	+24 0.3	7.3 ✓
29	1 41.7	+24 13 58	+23°	244	1 41	24.6	+23 57.6	8.0 ✓
30	1 43.2	+23 55 5	+23°	246	1 43	9.4	+23 55.5	7.0 ✓
31	1 44.3	+23 27	+23°	252	1 44	8.4	+23 24.6	7.2 ✓
32	1 51.4	+24 8	+24°	288	1 51	9.7	+24 8.1	7.7 ✓
33	1 53.2	+23 42	+23°	270	1 53	3.5	+23 43.7	8.0 ✓
34	1 51.4	+24 44	+24°	290	1 51	33.2	+24 46.7	9.0 ✓
35	1 52.5	+24 24	+24°	292	1 52	15.0	+24 22.0	8.6 ✓
36	1 53.2	+24 30	+24°	294	1 53	3.6	+24 29.9	8.8 ✓
37	1 55.4	+25 15	+25°	341	1 55	26.6	+25 14.0	6.0 ✓
38	1 56.2	+25 14	+25°	343	1 56	9.0	+25 13.8	7.2 ✓
39	1 56.5	+24 40	+24°	298	1 56	23.8	+24 44.1	8.0 ✓
40	1 43.0	+25 12	+25°	311	1 42	51.8	+25 7.6	7.7 ✓
41	1 44.2	+25 28	+25°	314	1 44	5.5	+25 28.0	8.0 ✓
42	1 44.9	+25 50	+25°	316	1 44	32.3	+25 46.0	8.6 ✓
43	1 45.2	+25 26	+25°	317	1 45	5.8	+25 18.2	7.0 ✓
44	1 45.9	+25 4	+25°	319	1 45	47.2	+25 4.0	7.5 ✓
45	1 47.4	+25 27	+25°	323	1 47	24.2	+25 24.3	8.0 ✓
46	1 27.5	+25 56	+25°	265	1 27	23.1	+25 56.0	7.4 ✓
47	1 28.4	+26 30	+26°	265	1 28	16.1	+26 29.9	8.0 ✓
48	1 27.6	+27 31	+27°	248	1 27	31.4	+27 32.0	7.3 ✓
49	1 31.0	+27 2	+27°	261	1 31	7.2	+27 1.4	7.2 ✓
50	1 31.3	+27 22	+27°	262	1 31	24.1	+27 22.5	7.8 ✓
51	1 31.9	+27 36	+27°	264	1 31	53.7	+27 34.9	8.6 ✓
52	1 32.4	+27 50	+27°	266	1 32	9.5	+27 52.0	8.3 ✓
53	1 33.4	+27 46	+27°	270	1 33	3.7	+27 44.5	8.7 ✓

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October 24, 1911 (Cont.)

Photo I 9385

No	Class	Int	Remarks
54	a	21	
55	b	21	
56	ao	63	
57	mb	42	
58	fo	42	
59	fo	42	
60	K?	21	
61	K	42	
62	a	63	
63	go	63	
64	go	42	
65	ao	42	
66	mb	84	
67	139	84	
68	K	63	Con focus
69	g	42	
70	K	42	
71	fo	42	
72	a	42	
~~73~~	~~K5~~ ~~a~~	~~3~~	
~~74~~	~~X~~	~~84~~	
73	K5	63	
73a	a	63	
74	ao	42	
75	K	84	

Time 10:20

76	ao	63						

cent. = 129,132

54	1 33 9 + 27 28	+27°	271	1 33 40.8	+27	23.8	8.6	✓
55	1 33 8 + 26 55	+26°	281	1 33 31.0	+26	56.8	8.5	✓
56	1 37.0 + 27 48	+27°	277	1 36 42.6	+27	44.1	7.6	✓
57	1 39.2 + 28 2	+28°	292	1 36 ~~55~~	+28	0.9	7.8	✓
58	1 41.9 + 26 45	+26°	308	1 41 49.2	+26	44.5	8.0	✓
59	1 42.3 + 26 24	+26°	307	1 42 1.9	+26	19.8	8.3	✓
60	1 46.5 + 26 40	+26°	319	1 46 24.3	+26	44.6	8.5	✓
61	1 47.0 + 26 38	+26°	323	1 46 58.7	+26	33.6	8.0	✓
62	1 46.9 + 26 50	+26°	322	1 46 53.0	+26	51.1	7.8	✓
63	1 46.7 + 27 10	+27	300	1 46 43.2	+26	7.2	7.5	✓
64	1 48.0 + 26 49	+26°	326	1 48 0.5	+26	46.3	8.6	✓
65	1 47.5 + 27 24	+27°	303	1 47 28.7	+27	19.5	8.8	✓
66	1 49.2 + 27 8	+27°	310	1 49 30.6	+27	4.9	6.5	✓
67	1 49.4 + 27 50	+27°	311	1 49 46.8	+27	49.1	7.7	✓
68	1 53.9 + 27 42	+27°	320	1 53 51.3	+27	42.7	6.5	✓
69	1 52.6 + 28 30	+28°	338	1 52 41.4	+28	31.8	7.7	✓
70	1 50.5 + 28 40	+28°	333	1 50 25.9	+28	41.0	8.2	✓
71	1 46.6 + 28 6	+28°	319	1 46 53.4	+28	4.9	7.5	✓
72	1 47.6 + 29 0	+29°	326	1 47 39.1	+29	0.1	8.3	✓
~~73~~	~~1 46.7 + 28 10~~ ~~1 44.2 + 28 47~~	+28°	313	1 44 57.0	+28	6.3	7.0	✓
73a	1 34.3 + 28 50	+28°	282	1 33 55.0	+28	47.2	7.5	✓
74	1 34.0 + 28 24	+28°	281	1 33 43.9	+28	20.6	8.4	✓
75	1 33.9 + 29 26	+29°	286	1 33 27.0	+29	19.3	6.0	✓
76	x	+24	258	1 38.0	+24	3 8.2	31 m	38882

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October 28, 1911

Plate I 3731 11

Time 12:17

No	Class	Int	Remark
1	A3	63	
2	B8	42	
3	A0	42	
4	G0	84	
5	A2	42	
6	K	21	
7	A	42	Near edge
8	F5	63	
9	A	63	Focus poor
10	G5	84	
11	F5	42	
12	K	21	
13	A5	42	
14	K0	84	
15	F2	21	
16	A5?	42	Ha appears faint
17	B	105	Ruined Batt.
18	A5?	21	Ha faint
19	A5	63	
20	A2	42	
21	A	21	
22	A5	42	
23	F5	42	
24	K5	42	
25	B	21	
26	A	21	
27	F8	21	

1	0 24.4	+34 12	+34°	73	0 24	32.5	+34 10.8	6.5
2	0 26.2	+35 4	+35°	90	0 25	9.3	+35 3.3	7.6
3	0 27.7	+34 52	+34°	79	0 27	45.8	+34 57.1	7.7
4	0 31.8	+34 38	+34°	86	0 29	36.6	+34 36.2	5.8
5	0 27.9	+33 45	+33°	75	0 27	55.6	+33 39.0	7.5
6	0 31.2	+33 30	+33°	89	0 31	14.9	+33 31.0	8.1
7	0 42.0	+34 32	+34°	121	0 42	6.4	+34 32.5	8.4
8	0 42.1	+34 12	+34	122	0 42	7.1	+34 11.0	7.7
9	0 48.3	+34 27	+34°	148	0 48	~~+1.8~~ 18.3	+34 ~~23.4~~ 26.2	7.0
10	0 50.1	+33 12	+33°	140	0 50	19.0	+33 11.0	6.2
11	0 21.2	+33 0	+33°	51	0 20	49.4	+33 0.5	7.0
12	0 21.3	+32 52	+32°	69	0 20	58.0	+32 49.7	7.5
13	0 23.2	+33 18	+33°	58	0 23	17.7	+33 18.7	7.8
14	0 23.7	+32 48	+32°	80	0 23	45.0	+32 48.0	6.0
15	0 25.9	+33 3	+33°	67	0 25	21.9	+33 3.1	8.0
16	0 28.9	+32 50	+32°	98	0 28	39.4	+32 50.8	8.5
17	0 29.2	+32 57	+32°	101	0 29	8.2	+32 56.3	4.1
18	0 31.7	+32 27	+32°	107	0 31	19.1	+32 23.5	8.5
19	0 36.2	+32 30	+32°	122	0 36	3.6	+32 31.0	6.8
20	0 36.8	+32 50	+32°	124	0 36	35.4	+32 50.0	7.5
21	0 37.3	+32 58	+32°	129	0 37	11.4	+32 53.1	8.5
22	0 41.2	+32 8	+32°	138	0 41	6.0	+32 8.2	7.5
23	0 43.2	+32 48	+32°	149	0 43	18.8	+32 44.5	8.6
24	0 44.1	+33 6	+33°	117	0 44	5.1	+33 5.7	7.0
25	0 45.2	+33 10	+33°	124	0 45	26.9	+33 8.0	8.0
26	0 48.3	+33 18	+33°	135	0 48	~~9.8~~ 15.1	+33 ~~17.7~~ 5.7	8.8
27	0 45.2	+32 16	+32°	152	0 44	46.3	+32 9.9	8.4

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October 28, 1911 (Cont.)

Plate I 3731 1

No	Class	Int	Remark
28	F8	63	B
29	K2	42	
30	G	42	
31	A2	63	
32	F5	63	
33	Ma	21	
34	G5	42	
35	G5	21	
36	A0p	63	Lines 4128 – 31 strong like σ^2 Eridani
37	F5	42	
38	F2	42	
39	F5	21	
40	F5	21	
41	B9	63 21	
42	A0	42	
43	Ma	21	
44	Ma	42	
45	A5	21	
46	G	21	
47	A5	21	
48	F5	42	
49	A5	21	
50	F2	63	
51	F0	63	
52	G5	21	
53	K5	105	Burned out
54	F5	42	
55	G5	21	

28	0 43.7 + 31 52	+31°	129	0 43 35.3 + 31 52.2	7.1	✓ ✓
29	0 46.1 + 32 4	+32°	160	0 46 18.9 + 32 6.4	7.3	✓ ✓
30	0 48.2 + 31 38	+31°	143	0 48 8.6 + 31 32.7	7.8	✓ ✓
31	0 51.2 + 31 40	+31°	150	0 51 13.7 + 31 41.5	6.6	✓ ✓
32	0 51.7 + 31 41	+31°	153	0 51 37.8 + 31 43.6	7.3	✓ ✓
33	0 49.6 + 31 6	+31°	144	0 49 6.9 + 31 5.6	7.9	✓ ✓
34	0 22.2 + 32 10	+32°	71	0 21 59.5 + 32 12.3	7.5	✓ ✓
35	0 23.4 + 31 56	+31°	69	0 23 39.3 + 31 54.8	8.5	✓ ✓
36	0 21.0 + 31 40	+31°	59	0 20 50.5 + 31 38.2	6.7	✓ ✓
37	0 22.9 + 31 22	+31°	66	0 22 50.8 + 31 23.4	7.9	✓ ✓
38	0 23.1 + 31 20	+31°	67	0 23 0.0 + 31 19.6	7.8	✓ ✓
39	0 26.8 + 32 5 (6.1)	+32°	92	0 26 7.0 + 32 4.2	7.9	✓ ✓
40	0 30.2 + 31 27	+31°	86	0 30 14.5 + 31 24.5	8.5	✓ ✓
41	0 34.3 + 31 48	+31°	101	0 34 18.3 + 31 48.9	8.1	✓ ✓
42	0 44.1 + 31 15	+31°	130	0 44 1.0 + 31 13.1	8.0	✓ ✓
43	0 44.2 + 31 33	+31°	131	0 44 4.5 + 31 34.2	8.0	✓ ✓
44	0 19.4 + 30 26	+30	59	0 19 31.3 + 30 22.4	7.8	✓ ✓
45	0 19.9 + 30 30	+30°	62	0 19 58.1 + 30 31.6	8.9	✓ ✓
46	0 19.7 + 30 16	+30°	60	0 19 46.9 + 30 16.5	8.5	✓ ✓
47	0 21.9 + 29 56	+29°	85	0 21 43.1 + 29 55.4	8.6	✓ ✓
48	0 22.1 + 29 26	+29°	88	0 22 4.6 + 29 20.7	8.5	✓ ✓
49	0 22.4 + 29 27	+29°	90	0 22 54.7 + 29 23.8	9.0	✓ ✓
50	0 26.6 + 30 52	+30°	77	0 26 30.1 + 30 50.2	7.5	✓ ✓
51	0 29.5 + 30 38	+30°	82	0 29 21.1 + 30 41.5	8.0	✓ ✓
52	0 31.2 + 31 8	+31°	88	0 30 55.9 + 31 7.0	8.3	✓ ✓
53	0 31.6 + 30 6	+30°	91	0 31 34.7 + 30 3.9	3.3	✓ ✓
54	0 33.4 + 30 24	+30°	96	0 33 7.6 + 30 19.3	8.0	✓ ✓
55	0 36.8 + 30 40	+30°	107	0 36 30.7 + 30 35.3	8.8	✓ ✓

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October 28, 1911 (Cont.)

Plate I 3731

No	Class	Int	Remarks
56	g5	63	Resulting of two superposed
57	g5	42	
58	g	42	
59	K	21	
60	Ko	42	
61	A2	42	
62	Bo	105	
63	A2	21	
64	Ko	42	
65	g	21	
66	g2	42	
67	38	42	
68	g5	42	
69	g5	42	Re position of two stars
70	go	105	
71	g	42	
72	g5	63	
73	A5	63	Comp? Kracht faint for intensity of Hγ and H8
74	Bo	21	
75	A5?	21	
76	A3	63	
77	?	42	
78	g5	63	
79	A2	63	
80	g	42	
81	A5	63	
82	B	21	
83	g5	84	

56	0 38.2	+30 10	+30° 113	0 38	35.4	+30 9.2	7.8
57	0 38.3	+30 10	+30° 114	0 38	41.6	+30 9.6	8.0
58	0 42.2	+29 40	+29° 141	0 42	2.9	+29 38.8	7.6
59	0 45.1	+29 58	+29° ~~150~~ 145	0 ~~47~~ 4	~~52.4~~ 51.9	+29 ~~53.1~~ 49.1	~~7.8~~ 8.2
60	0 45.4	+29 35	+29° 147	0 45	18.8	+29 32.8	7.5
61	0 47.5	+29 53	+29° 150	0 47	32.4	+29 53.1	7.8
62	0 22.4	+28 57	+28° 75	0 22	30.4	+28 57.1	5.9
63	0 21.6	+28 45	+28° 71	0 21	33.6	+28 46.2	8.6
64	0 21.7	+28 3	+28° 72	0 21	43.2	+28 1.2	7.6
65	0 23.4	+28 40	+28° 80	0 23	16.2	+28 45.8	8.3
66	0 25.1	+28 46	+28° 87	0 25	13.7	+28 49.5	8.5
67	0 28.3	+29 17	+29° 105	0 28	19.1	+29 12.6	8.3
68	0 28.7	+29 4	+29° 107	0 28	50.1	+29 2.8	8.3
69	0 28.2	+28 20	+28° 96	0 28	14.0	+28 17.3	8.5
70	0 31.3	+28 30	+28° 103	0 30	56.5	+28 31.1	4.5
71	0 31.6	+28 48	+28° 108	0 33	3.3	+28 57.8	8.6
72	0 35.6	+29 20	+29° 125	0 35	4.2	+29 18.8	7.7
73	0 38.1	+29 38	+29° 132	0 37	53.1	+29 33.2	8.5
74	0 38.0	+28 56	+28° 119	0 37	42.8	+28 55.8	8.3
75	0 38.2	+28 40	+28° 122	0 37	54.9	+28 40.9	8.5
76	0 38.2	+28 28	+28° 121	0 37	53.1	+28 23.2	8.5
77	0 42.9	+28 55	+28° 134	0 42	53.7	+28 50.3	8.8
78	0 45.9	+28 40	+28° 144	0 45	51.0	+28 42.9	7.5
79	0 45.9	+28 20	+28° 143	0 45	48.4	+28 18.0	7.6
80	0 46.1	+27 47	+27° 144	0 46	1.1	+27 46.8	7.7
81	0 47.6	+27 48	+27° 148	0 47	36.4	+27 46.2	7.5
82	0 48.9	+28 1	+28° 155	0 48	50.6	+28 0.0	8.3
83	0 50.0	+28 15	+28° 157	0 49	59.6	+28 12.8	6.6

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October 28, 1911 (Cont.)

Plate I 3731

No	Class	Dist	Remarks
84	Ma?	42	Focus poor
85	L2	42	
86	F8	42	
87	A2	42	
88	A0	63	
89	G5	63	
90	B8?	63	Focus poor
91	F0	21	
92	G3	42	
93	F0	63	
94	F	21	
95	Ma?	21	
96	K5	42	
97	K0	42	
98	F0	84	
99	G5	21	
100	A2	84	

101

June 12, 45

cont'd on 128, col 4

84	0 50.2	+28 40	+28°	159	0 50 3.9	+28 44.5	8.3	
85	0 20.9	+27 20	+27°	64	0 20 12.5	+27 22.7	7.9	
86	0 20.9	+27 15	+27°	68	0 20 41.1	+27 15.0	8.1	
87	0 22.7	+27 15	+27°	71	0 22 50.2	+27 15.7	8.2	
88	0 25.0	+26 50	+26°	76	0 24 57.5	+26 46.2	6.8	
89	0 25.2	+27 35	+27°	84	0 25 10.6	+27 29.3	7.0	
90	0 29.1	+26 28	+26°	91	0 28 42.2	+26 27.4	6.5	
91	0 29.4	+26 15	+26°	92	0 29 4.6	+26 14.4	8.0	
92	0 33.9	+27 17	+27°	103	0 33 42.8	+27 14.7	8.2	
93	0 34.9	+26 52	+26°	108	0 34 46.6	+26 50.8	7.2	
94	0 36.0	+27 58	+27°	113	0 35 59.0	+27 58.5	8.7	
95	0 37.8	+27 12	+27°	117	0 37 35.8	+27 10.0	8.3	
96	0 41.9	+27 56	+27°	127	0 41 23.6	+27 53.8	7.5	
97	0 42.7	+27 36	+27°	132	0 42 29.0	+27 34.7	7.6	
98	0 42.2	+26 56	+26°	131	0 42 7.6	+26 55.8	5.3	
99	0 44.3	+26 58	+26°	138	0 44 7.7	+26 58.4	8.2	
100	0 48.2	+26 30	+26°	151	0 48 12.1	+26 25.1	6.0	

Identified by A.M.C.
Checked by A.D.K.

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October 28, 1911

I 37 310

Time 12:51

No	Class	Dist	Remark
1	A2	42	
2	~~B5~~ A	42	Northern of 2 stars
3	A	21	Southern of two stars
4	Ma	42	
5	Y	42	
6	Y5	63	
7	K0	42	
8	F?	42	
9	F?	21	
10	A0	84	
11	K?	42	Maybe Ma
12	Ma	63	
13	F2	63	
14	K	21	
15	A p	63	Fifth mag Eridani
16	K	42	
17	Ma	21	
18	A0	21	
19	Y	21	
20	K5	63	
21	Ma	21	
22	A0	21	
23	A0	84	
24	B8	84	
25	Go	42	
26	Bq	63	
27	M5	42	

1	0	18.4	+35	1	+35°	69	0	18	23.7 +35 1.1	7.4 ✓
2	0	18.1	+34	28	+34°	53	0	18	14.8 +34 31.3	7.8
3	0	18.1	+34	25	+34°	52	0	18	14.2 +34 22.7	8.7 ✓
4	0	19.1	+33	24	+33°	43	0	19	1.3 +33 23.0	7.2 +33° 45 a Draconis
5	0	19.9	+33	14	+33	47	0	19	56.5 +33 13.0	7.8 ✓
6	0	20.9	+32	58	+33°	51	0	20	49.4 +33 0.5	7.0 ✓
7	0	21.1	+32	50	+32°	69	0	20	58.0 +32 49.7	7.5 ✓
8	0	7.6	+34	4	+34°	20	0	7	36.7 +34 4.5	7.3 ✓
9	0	10.3	+33	48	+33°	34	0	10	22.5 +33 46.5	8.3 ✓
10	0	6.5	+32	20	+32°	21	0	6	32.3 +32 24.4	6.5 ✓
11	0	7.4	+32	12	+32°	26	0	7	35.4 +32 13.3	7.3 ✓
12	0	13.1	+32	6	+32°	45	0	13	11.0 +32 6.3	6.0 ✓
13	0	13.5	+32	10	+32°	48	0	13	19.3 +32 10.4	7.0 ✓
14	0	18.8	+31	22	+31°	52	0	18	39.4 +31 27.0	8.3 ✓
15	0	20.6	+31	38	+31°	59	0	20	50.5 +31 38.2	6.7 ✓
16	0	3	+32	20	+32°	11	0	3	3.7 +32 19.5	7.3 ✓
17	0	3.5	+31	26	+31°	8	0	3	17.4 +31 25.5	8.0 ✓
18	0	5.1	+31	20	+31°	12	0	4	59.3 +31 23.2	8.4 ✓
19	0	6.6	+31	40	+31°	13	0	6	14.6 +31 45.2	8.2 ✓
20	0	7.7	+30	48	+30°	26	0	7	35.3 +30 43.8	6.5 ✓
21	0	9.8	+30	18	+30°	31	0	9	36.1 +30 15.5	8.0 ✓
22	0	10.6	+30	27	+30°	33	0	10	26.8 +30 29.3	8.4 ✓
23	0	11.1	+30	40	+30°	35	0	11	6.6 +30 43.4	6.0 ✓
24	0	12.6	+30	8	+30°	42	0	12	51.9 +30 8.4	6.4 ✓
25	0	12.8	+30	10	+30°	43	0	12	56.4 +30 9.5	7.9 ✓
26	0	17.4	+30	30	+30°	55	0	17	3.5 +30 34.3	6.8 ✓
27	0	19.5	+30	26	+30°	59	0	19	31.3 +30 22.4	7.8 ✓

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October 28, 1911 (cont'd)

I 37310

No.	Class	Dist	Remarks
28	A	21	
29	K	21	
30	Ao	42	
31	G?	21	
32	A	21	
33	Ko	63	
34	A3	63	
35	F5	42	
36	B5	21	
37	A	21	
38	mb	42	
39	F5	42	
40	F0	42	
41	F5	42	
42	B?	21	
43	F5	42	
44	K5	42	
45	A5	21	
46	A2	42	
47	F8	42	
48	F5	63	
49	A	84	
50	F0	21	
51	B	42	
52	A	21	

June 1.04

May 18.1915 53 4 F5

ends in 37,380

28	0 19.9	+30 30	+30°	62	0	19	58.1	+30	31.6	8.9 ✓ +30° 61 subtracted
29	0 19.8	+30 6	+30°	60	0	19	46.9	+30	6.5	8.5 ✓
30	0 3.6	+29 50	+29°	10	0	3	20.8	+29	52.9	8.0 ✓
31	0 3.8	+29 44	+29°	14	0	3	53.3	+29	39.0	8.4 ✓
32	0 9.1	+29 38	+29°	38	0	8	39.1	+29	43.7	8.6 ✓ 493 398 82
33	0 11.1	+29 40	+29°	39	0	10	50.0	+29	34.5	8.0 ✓
34	0 14.9	+28 38	+28°	49	0	15	15.8	+28	39.5	7.5 ✓
35	0 17.6	+29 5	+29°	62	0	17	29.2	+29	2.5	8.3 ✓
36	0 17.9	+29 17	+29°	64	0	17	41.2	+29	17.5	8.5 ✓
37	0 18.1	+29 12	+29°	63	0	18	3.9	+29	10.2	8.7 ✓
38	0 3.1	+27 50	+27	7	0	2	57.8	+27	50.8	7.9 ✓
39	0 4.3	+27 35	+27°	12	0	4	22.6	+27	37.2	7.7 ✓
40	0 4.6	+27 48	+27°	13	0	4	31.5	+27	48.0	7.3 ✓
41	0 7.8	+27 50	+27°	25	0	7	49.5	+27	46.9	8.0 ✓
42	0 9.1	+28 30	+28°	29	0	9	1.7	+28	28.9	8.5 ✓
43	0 13.9	+27 30	+27°	43	0	13	52.8	+27	31.2	8.0 ✓
44	0 18.2	+28 10	+28°	63	0	18	27.9	+28	8.4	7.9 ✓
45	0 19.3	+28 17	+28°	68	0	19	28.1	+28	15.6	8.7 ✓
46	0 20.3	+27 20	+27°	64	0	20	12.5	+27	22.7	7.9 ✓
47	0 20.8	+27 18	+27°	68	0	20	41.1	+27	15.0	8.1 ✓
48	0 5.9	+26 12	+26°	13	0	5	55.8	+26	10.4	6.5 ✓
49	0 7.6	+26 30	+26°	23	0	7	42.2	+26	28.0	6.5 ✓
50	0 19.3	+26 23	+26°	57	0	19	13.7	+26	22.8	8.2 ✓
51	0 19.7	+25 30	+25°	55	0	19	50.8	+25	29.3	7.5 ✓
52	0 14.3	+26 22	+26°	42	0	14	26.7	+26	23.4	8.1 ✓

53 +33°58 0 23.3 +33 19 7.8

No. 2 on I 37382

Chart made 1912 A.F.C.

Identified by Ambler

Checked by A. D. F.

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October 30, 1911

Time 2.36 — I 10.15K

No	Class	Dist	Remarks
1	M?	42	Focus to fine
2	K5?	42	" "
3	F?	105	
4	Q3	105	
5	G5	42	
6	Q2	63	
7	G?	42	Focus to fine
8	Q3	63	
9	K0	105	
10	G5	84	
11	F0	63	
12	K0	105	
13	K0	63	
14	K0	42	
15	M—	63	
16	K0	84	
17	A0?	105	Ruined plate
18	G?	21	
19	G5	42	
20	A0	42	
21	F	21	
22	Ma?	42	
23	A2	63	
24	K0	42	
25	K0	42	
26	F2	63	
27	F0	42	

1	0 41.8	+27 56	+27°	127	0 41	23.6	+27 55.8	7.5 ✓
2	0 42.3	+27 35	+27°	132	0 42	29.0	+27 34.7	7.6 ✓
3	0 42.0	+26 57	+26°	131	0 42	7.6	+26 55.8	5.3 ✓
4	~~0 49.9~~ 0 48.2	~~+26 15~~ +26 27	+26°	151	0 48	12.1	+26 25.1	6.0 ✓
5	0 46.0	+28 40	+28°	144	0 45	51.0	+28 42.9	7.5 ✓
6	0 46.1	+28 16	+28°	143	0 45	48.4	+28 18.0	7.6 ✓
7	0 46.2	+27 48	+27°	144	0 46	1.1	+27 46.8	7.7 ✓
8	0 47.7	+27 50	+27°	148	0 47	36.4	+27 46.2	7.5 ✓
9	~~0 50.1~~ 0 48.2	~~+28 10~~ +26 24	+28°	157	0 49	69.6	+28 12.8	6.0 ✓
10	0 56.5	+28 55	+28°	174	0 56	32.6	+28 53.8	6.5 ✓
11	1 0.4	+28 6	+28°	187	1 0	21.9	+28 6.2	7.3 ✓
12	1 3.8	+29 22	+29°	190	1 3	41.0	+29 20.5	4.2 ✓
13	1 5.3	+29 22	+29°	195	1 5	1.1	+29 19.1	6.5 ✓
14	1 5.9	+28 57	+28°	204	1 5	34.8	+28 58.2	7.3 ✓
15	1 6.4	+27 52	+27°	196	1 6	7.5	+27 47.2	7.5 ✓
16	1 13.8	+27 58	+27°	215	1 13	6.4	+27 58.6	5.0 ✓
17	1 11.5	+26 30	+26°	220	1 11	30.5	+26 29.5	4.7 ✓
18	0 44.6	+24 59	+24°	128	0 44	37.5	+24 59.4	7.5 ✓
19	0 46.3	+24 45	+24°	133	0 46	15.2	+24 41.9	7.0 ✓
20	0 46.6	+24 36	+24°	135	0 46	33.1	+24 34.6	8.0 ✓
21	0 46.8	+24 56	+24°	136	0 46	38.8	+24 56.0	8.0 ✓
22	0 47.9	+25 30	+25°	136	0 48	56.9	+25 33.3	8.0 ✓
23	0 49.6	+26 15	+26°	155	0 49	27.9	+26 13.1	7.8 ✓
24	0 50.7	+26 0	+26°	161	0 50	40.3	+26 0.1	7.5 ✓
25	0 51.4	+26 52	+26°	163	0 51	13.5	+26 52.7	7.2 ✓
26	0 55.1	+26 58	+26°	169	0 54	44.1	+26 57.9	6.5 ✓
27	0 55.2	+25 30	+25°	156	0 55	0.4	+25 32.1	7.0 ✓

Cards made out

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October 30, 1911

Plate I 10/54

No	Class	Dur	Remark
28	F	21 8	
29	F0	42	
30	G?	42	
31	A	42	
32	N	42	0.8.10
33	A3	21	
34	Mb	63	
35	G?	42	
36	K0	84	
37	K0	105	
38	F5	42	
39	G5	63	
40	A5	63	
41	F?	42	
42	F0	42	
43	A0	63	
44	K0	105	
45	K5	63	

Fine 2.49

28	0 55.8	+25 30	+25°	158	0 55	44.6	+25 31.9	8.0 v
29	8' 3.1	+27 7	+27°	185	8' 2	49.3	+27 6.2	8.0 v
30	1 7.0	+25 38	+25°	200	1 6	55.2	+25 40.5	8.5 v
31	0 10.2	+25 40	+25°	211	1 10	14.3	+25 41.6	7.7 v
32	0' 8.3	+25 0	+25°	205	1 8	11.8	+25 0.2	7.0 v
33	0 45.9	+24 8	+24°	129	0 45	53.2	+24 8.3	8.0 v
34	0 47.5	+23 50	+23°	126	0 47	29.7	+23 46.3	6.8 v
35	0 47.2	+23 15	+23°	125	0 47	18.4	+23 18.1	7.5 v
36	0 47.1	+22 50	+22°	146	0 47	14.1	+22 50.6	6.0 v
37	0 49.9	+22 35	+22°	153	0 49	29.3	+22 38.7	4.5 v
38	0 51.0	+23 48	+23°	134	0 50	43.3	+23 43.9	8.0 v
39	0 54.0	+24 30	+24°	163	0 53	54.8	+24 31.2	6.5 v
40	1 1.9	+23 1	+23°	150	1 1	51.9	+23 2.1	6.8 v
41	8' 1.7	+22 10	+22°	182	1 1	34.1	+22 8.7	7.5 v
42	8' 4.8	+22 30	+22°	192	1 4	38.7	+22 29.0	7.5 v
43	8' 8.8	+22 48	+22°	204	1 8	39.0	+22 48.4	7.0 v
44	1 8.9	+23 50	+23°	158	1 5	54.1	+23 48.5	4.6 v
45	1 2.2	+24 45	+24°	186	1 2	27.9	+24 44.9	6.0 v

Cards made out

Sent by A. M. C.

Checked by J. C. M.

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October 30, 1911

Line 3.102

Plate I 37.260

No	Class	Int	Remark
1	K0	10 5	near edge
2	F2	63	
3 X	F	42	
4 5	K	42	
5 6	F5	42	
6	A0	42	
7 8	B8	42	
8 X	F5	84	
9	B8?	21	
10	A5	63	
11	B0	63	
12	A	21	
13	B B5	84	
14	B5	84	
15	A0	63	
16		42	Too poor
17	F2	42	
18	K5	42	
19	F2	84	
20	Comp	10 5	B = K F = A
21	A0	42	
22	A5	21	
23	A	21	
24	A	21	
25	A	21	
26	A	21	
27	A	42	

Corrected intensities entered in Copy by Pairs

1	4 27.2	+40 58	+40°	1000	4 26 39.2	+40 58.0	5.0 v
2	4 30.3	+40 30	+40°	1017	4 30 11.9	+40 29.8	6.5 v
3	4 27.7	+39 59	+39°	1036	4 27 39.9	+39 59.9	8.0 v
4	4 30.3	+39 32	+39°	1042	4 30 9.1	+39 30.2	7.0 v
5	4 25.9	+39 27	+39°	1030	4 25 48.9	+39 26.2	8.0 v
6	4 25.6	+38 40	+38°	915	4 25 25.6	+38 34.9	8.1 v
7	4 28.9	+38 8	+38°	921	4 28 ~~57.5~~	+38 8.1	7.7 v
8	4 32.0	+38 0	+37°	954	4 31 59.9	+37 59.4	6.2 v
9	4 32.6	+38 6	+38°	924	4 38 ~~6.2~~	+38 ~~8.4~~	7.6 v
10	4 32.8	+38 8	+38	927	4 33 0.2	+38 8.4	7.0 v
11	4 35.2	+37 58	+37°	962	4 34 46.9	+37 58.3	7.0 v
12	4 35.1	+38 35	+38°	933	4 34 41.7	+38 26.7	8.3 v
13	4 34.1	+40 33	+40°	1032	4 34 10.8	+40 30.6	6.2 v
14	4 36.5	+40 2	+40°	1045	4 36 44.9	+40 2.8	6.5 v
15	4 36.8	+41 4	+41°	956	4 36 55.9	+41 2.4	7.0 v
16	4 46.4	+39 56	+39°	1109	4 46 29.5	+39 56.1	8.0 v
17	4 48.2	+39 50	+39°	1122	4 48 10.8	+39 50.0	7.3 v
18	4 50.8	+39 28	+39°	1134	4 50 23.5	+39 26.0	6.8 v
19	4 50.6	+39 15	+39°	1133	4 50 20.4	+39 10.4	6.4 v
20	4 52.4	+40 57	+40°	1142	4 52 22.0	+40 51.9	3.6 v
21	4 53.0	+41 15	+41°	1044	4 53 8.5	+41 13.8	6.5 v
22	4 53.2	+40 ~~26~~ 18	+40°	1150	4 53 3.1	+40 20.2	7.8 v
23	4 53.9	+40 26	+40°	1154	4 53 48.3	+40 28.4	8.0 v
24	4 56.4	+39 55	+39°	1169	4 56 24.3	+39 50.0	7.8 v
25	4 57.9	+39 48	+39°	1175	4 57 ~~46.6~~ 57.3	+39 ~~45.0~~ 37.8	7.6 v 6.0
26	4 58.2	+39 42	+39°	~~1140~~ 83	4 ~~57~~ 58	51.3 27.3	+39 ~~39.2~~ 40.3 8.0 v
27	5 2.1	+39 55	+39°	1205	5 2	11.4 +39	55.1 7.1 v

Cards made out

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October 30, 1911 (Cont.)

I 37260

No	Class	Int.	Remarks
28	A_2	84	
29	K5	42	
30	A2?	42	
31	A	42	
32	K	42	
33	A_0	105	
34	A5	63	
35	B5	63	Lines narrow
36	K	21	
37	K5	42	
38	K2	84	
39	K0	42	
40	F2	42	
41	K2	84	
42	F0	42	
43	A	42	
44	F	42	
45	A	42	
46	A3	21	
47	A3	42	
48	A0	42	
49	K0	63	
50	F5	42	Near edge
51	K5	42	
52	F2	42	
53	F	42	
54	A5	42	
55	A3	42	

Corrected intensities entered in Printer's Copy

28	5 8.6	+38	22	+38°	1063	5 3	31.3	+38	18.3	5.2 ✓	28
29	4 59.2	+38	30	+38°	1044	4 59	40.6	+38	29.5	7.1 ✓	29
30	4 56.6	+38	22	+38°	1020	4 56	39.3	+38	19.2	7.7 ✓	30
31	4 54.2	+38	42	+38°	1012	4 54	8.6	+38	39.4	8.2 ✓	31
32	4 51.7	+38	38	+38°	1004	4 51	48.4	+38	33.8	7.8 ✓	32
33	4 49.2	+37	40	+37°	1005	4 49	25.2	+37	40.2	5.7 ✓	33
34	4 48.6	+37	6	+37°	1002	4 48	42.0	+37	6.1	7.0 ✓	34
35	4 46.7	+35	55	+35°	930	4 46	39.7	+35	55.9	6.5 ✓	35
36	4 44.2	+36	40	+36°	964	4 44	59.2 / 13.3	+36	35.4 / 2.0	7.5 / 7.7 ✓	36
37	4 43.8	+36	42	+36°	957	4 43	50.6	+36	34.7	6.5 ✓	37
38	4 42.9	+36	24	+36°	952	4 42	56.1	+36	27.9	5.0 ✓	38
39	4 42.7	+36	21	+36°	948	4 42	38.2	+36	22.1	7.4 ✓	39
40	4 42.0	+37	30	+37°	974	4 41	5.7	+37	30.0	8.0 ✓	40
41	4 40.2	+37	15	+37°	969	4 40	9.5	+37	13.8	5.5 ✓	41
42	4 38.0	+36	28	+36°	937	4 38	5.8	+36	27.2	7.5 ✓	42
43	4 32.9	+36	2	+36°	926	4 33	0.0	+36	1.1	7.2 ✓	43
44	4 32.5	+37	15	+37°	957	4 32	30.0	+37	13.8	7.8 ✓	44
45	4 29.9	+36	40	+35°	893	4 29	49.3	+35	39.7	7.0 ✓	45
46	4 31.3	+36	30	+36°	924	4 31	3.0	+36	34.8	7.5 ✓	46
47	4 29.1	+36	18	+36°	918	4 29	21.8	+36	15.5	7.0 ✓	47
48	4 27.5	+37	10	+37°	947	4 27	8.4	+37	8.2	7.2 ✓	48
49	4 27.3	+36	40	+36°	914	4 26	58.8	+36	39.1	6.5 ✓	49
50	4 22.9	+36	40	+36°	907	4 22	37.4	+36	43.6	6.5 ✓	50
51	4 22.6	+36	22	+36°	903	4 22	19.6	+36	26.7	6.5 ✓	51
52	4 35.7	+34	57	+34°	904	4 35	39.0	+34	53.3	7.2 ✓	52
53	4 39.5	+33	45	+33°	901	4 39	23.9	+33	43.7	7.5 ✓	53
54	4 41.9	+33	53	+33°	907	4 41	48.0	+33	57.2	7.7 ✓	54
55	4 42.9	+34	14	+34°	916	4 42	43.9	+34	10.9	7.7 ✓	55

Cards made out

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October 30, 1911 (Cont)
I 37260

No	Obs	Dist	Remark
56	B6	63	
57	A	42	
58	B8	42	
59	A	21	
60	B8	63	
61	B5	63	
62	A3	84	
63	B3	63	
64	F	42	
65	A	63	
66	F	42	
67	G	21	
68	K	105	Burned out
69	A	42	
70	A	42	
71	K	63	
72	A3	63	
73	A5	42	
74	B5	42	
75			

Time 3.26

56	4 41.9	+35 33	+35°	914	4	41	52.8	+35 34.1	7.0 ✓
57	4 43.5	+35 30	+35°	917	4	43	18.3	+35 33.3	8.3 ✓
58	4 51.0	+36 28	+36°	975	4	50	49.4	+36 24.6	7.5 ✓
59	4 57.8	+37 15	+37°	1014	4	57	51.3	+37 11.3	8.1 ✓
60	4 53.9	+37 6	+37°	1031	4	53	53.9	+37 3.3	7.3 ✓
61	4 56.2	+35 40	+35°	972	4	56	8.1	+35 38.7	7.8 ✓
62	4 56.4	+35 44	+35°	973	4	56	19.7	+35 44.1	8.5 ✓
63	5 0.6	+37 8	+37°	1067	5	0	30.2	+37 7.0	6.4 ✓
64	4 57.1	+34 22	+34°	948	4	57	13.5	+34 20.0	7.8 ✓
65	4 56.6	+33 42	+33°	953	4	56	37.0	+33 42.8	7.0 ✓
66	4 48.4	+34 12	+34°	932	4	49	8.0	+34 9.7	8.0 ✓
67	4 48.4	+34 2	+34°	927	4	48	21.3	+34 2.5	8.0 ✓
68	4 47.6	+32 56	+32°	855	4	47	32.8	+32 56.2	8.0 ✓
69	4 46.2	+31 56	+31°	828	4	46	6.4	+31 54.0	7.2 ✓
70	4 43.3	+31 45	+31°	821	4	43	7.8	+31 43.6	7.0 ✓
71	4 39.9	+31 15	+31°	816	4	41	30.1	+31 18.4	7.8 ✓
72	4 39.8	+32 20	+32°	840	4	39	56.7	+32 21.1	6.0 ✓
73	4 34.8	+32 35	+32°	827	4	34	26.7	+32 35.5	6.5 ✓
74	4 33.9	+33 37	+33°	892	4	33	37.6	+33 39.6	7.3 ✓

Cards made out

Ident. by A. M. C.
Checked by J. C. M.

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Nov. 8, 1911

I 37340

Time 12:00

No.	Class	Dist.	Remark
1	Q3	84	
2	Q3	42	
3	Ma	21	
4	K5	21	
5	F2	63	
6	K	21	
7	F0	42	
8	K5	84	
9	G5	21	
10	K	21	
11	K0	42	
12	Q	42	
13	Q0	105	
14	K0	84	
15	G5	42	
16	G5	21	
17	Q5	63	
18	G	42	
19	K0	105	
20	K0	42	
21	K0	63	
22	K	21	
23	G5	21	
24	F5	63	
25	Q5	21	
26	G	21	
27	Q5	21	

1	0 48.3	+26 24	+26°	151	0 48 12.1	+26 25.1	6.0 ✓	1
2	0 49.8	+26 16	+26°	155	0 49 27.9	+26 13.1	7.8 ✓	2
3	0 49.1	+25 33	+25°	126	0 48 56.9	+25 33.3	8.0 ✓	3
4	0 53.2	+26 1	+26°	161	0 50 40.3	+26 0.1	7.5 ✓	4
5	0 55.3	+25 30	+25°	156	0 55 0.4	+25 32.1	7.0 ✓	5
6	0 53.7	+25 40	+25°	150	0 53 20.9	+25 41.5	8.2 ✓	6
7	0 55.8	+25 30	+25°	158	0 55 44.6	+25 31.9	8.0 ✓	7
8	1 2.2	+24 47	+24°	186	1 2 27.9	+24 41.9	6.0 ✓	8
9	1 5.9	+25 40	+25°	192	1 5 39.3	+25 41.0	7.5 ✓	9
10	1 6.0	+25 28	+25°	194	1 5 50.7	+25 28.5	7.5 ✓	10
11	1 7.0	+25 38	+25°	200	1 6 55.2	+25 40.5	8.5 ✓	11
12	1 10.2	+25 40	+25°	211	1 10 14.3	+25 41.6	7.7 ✓	12
13	1 11.6	+26 27	+26°	220	1 11 36.5	+26 29.5	4.7 ✓	13
14	1 13.4	+27 58	+27°	215	1 13 6.4	+27 58.6	5.0 ✓	14
15	0 46.0	+27 50	+27°	144	0 46 1.1	+27 46.8	7.7 ✓	15
16	0 47.3	+27 26	+27°	146	0 47 17.5	+27 24.5	8.7 ✓	16
17	0 47.6	+27 52	+27°	148	0 47 36.4	+27 46.2	7.5 ✓	17
18	0 48.9	+28 1	+28°	155	0 48 50.6	+28 0.0	8.3 ✓	18
19	0 50.0	+28 12	+28°	157	0 49 59.6	+28 12.8	6.0 ✓	19
20	0 51.5	+26 54	+26°	163	0 51 13.5	+26 52.7	7.2 ✓	20
21	0 50.2	+28 42	+28	159	0 50 3.9	+28 44.5	8.3 ✓	21
22	0 52.9	+28 10	+28°	166	0 53 9.1	+28 13.5	6.7 ✓	22
23	0 53.9	+27 33	+27°	162	0 53 41.5	+27 31.8	8.5 ✓	23
24	0 55.1	+26 58	+26°	169	0 54 44.1	+26 57.9	6.5 ✓	24
25	0 55.9	+27 6	+27°	168	0 55 56.8	+27 6.4	8.7 ✓	25
26	0 57.1	+27 10	+27°	171	0 57 12.4	+27 12.4	9.2 ✓	26
27	0 57.2	+27 50	+28°	175	0 57 14.8	+27 46.5	8.2 ✓	27

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Nov. 3, 1911 (Cont)

I 3734 0

No	Class	Int									
28	Fo	63	28	1 0.4	+28	3	+28°	187	1 0 21.9	+28 6.2	7.3 ✓
29	F8	42	29	1 2.0	+27	57	+27°	181	1 2 5.3	+27 55.7	8.2 ✓
30	Fo	42	30	1 2.3	+27	8	+27°	185	1 2 49.3	+27 6.2	8.0 ✓
31	Ma	63	31	1 6.0	+27	52	+27°	196	1 6 7.5	+27 47.2	7.5 ✓
32	Ma	21	32	1 4.4	+28	8	+28°	197	1 4 20.2	+28 8.3	8.5 ✓
33	Q3	42	33	1 8.8	+27	11	+27°	206	1 9 4.9	+27 13.8	8.0 ✓
34	F2	42	34	1 9.0	+29	12	+29°	209	1 9 4.1	+29 13.5	7.8 ✓
35	Q2	63	35	0 46.0	+28	18	+28°	143	0 45 48.4	+28 18.0	7.6 ✓
36	Ko	63	36	0 46.1	+28	45	+28°	144	0 45 51.0	+28 42.9	7.5 ✓
37	Ko	42	37	0 45.8	+29	35	+29°	147	0 45 18.8	+29 32.8	7.5 ✓
38	K	21	38	0 44.7	+29	50	+29°	145	0 44 51.9	+29 49.1	7.2 ✓
39	Q2	63	39	0 47.7	+29	55	+29°	150	0 47 32.4	+29 53.1	7.8 ✓
40	K	21	40	0 50.2	+29	34	+29°	158	0 50 7.9	+29 31.8	8.3 ✓
41	K5	21	41	0 50.3	+30	20	+30°	142	0 50 33.4	+30 19.2	8.5 ✓
42	~~F~~	21	42	0 53.4	+29	55	+29°	166	0 53 29.8	+29 50.7	8.8 ✓
43	G	21	43	0 54.4	+29	22	+29°	168	0 54 19.9	+29 22.5	8.3 ✓
44	G	42	44	0 55.5	+29	15	+29°	170	0 55 0.1	+29 12.3	7.8 ✓
45	F5	84	45	0 56.5	+28	56	+28°	174	0 56 32.6	+28 53.8	6.5 ✓
46	K5	21	46	0 58.2	+28	57	+28°	179	0 58 43.6	+28 54.8	8.0 ✓
47	K5	21	47	1 0.5	+29	36	+29°	179	1 0 22.1	+29 39.7	8.6 ✓
48	Q5	63	48	1 0.8	+29	25	+29°	181	1 0 52.0	+29 39.3	7.2 ✓
49	K2	21	49	1 1.8	+29	28	+29°	183	1 1 22.0	+29 28.1	8.2 ✓
50	F5	21	50	1 2.5	+29	6	+29°	185	1 2 23.9	+29 5.7	8.7 ✓
51	K5	105	51	1 3.7	+29	18	+29°	190	1 3 41.0	+29 20.5	4.2 ✓
52	K0	63	52	1 5.0	+29	16	+29°	195	1 5 1.1	+29 19.1	6.5 ✓
53	K0	42	53	1 5.8	+28	58	+28°	204	1 5 34.8	+28 58.2	7.3 ✓
54	Q5	21	54	1 6.4	+29	12	+29°	199	1 6 13.4	+29 12.6	8.8 ✓
55	Q2	21	55	1 5.9	+29	42	+29°	198	1 5 35.6	+29 42.6	8.5 ✓

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No	Class	Dist	Remark
56	Ao	63	
57	K	21	
58	A2	42	
59	Ko	63	
60	K	21	
61	K	63	
62	Ma	42	
63	A2	42	
64	K	42	Partly superposed on 65
65	K	21	
66	A2	42	
67	F5	63	
68	Ma	21	
69	Ko	42	
70	Ma	42	
71	A2	63	
72	F8	63	
73	Ko	42	
74	K5	42	
75	F	21	
76	K	21	
77	K	21	
78	A2	42	
79	A	105	Faint, less hard cut.
80	F	21	
81	Ko	42	
82	Ko	63	

56	16.1	+29 48	+29°	200	1 h 21.4	+29 47.4	7.5 ✓		56
57	16.0	+30 30	+30°	186	1 5 46.2	+30 27.5	7.5 ✓		57
58	19.0	+30 59	+30°	195	1 9 0.0	+30 59.9	8.2 ✓		58
59	19.4	+30 57	+30°	196	1 9 23.1	+30 59.5	6.8 ✓		59
60	11.7	+31 32	+31°	226	1 11 31.9	+31 33.6	8.3 ✓		60
61	14.1	+30 57	+30°	210	1 14 6.8	+30 58.6	7.6 ✓		61
62	15.1	+31 5	+31°	236	1 14 51.3	+31 5.0	7.6 ✓		62
63	15.5	+30 12	+30°	213	1 15 29.6	+30 10.9	8.6 ✓		63
64	0 44.6	+30 35	+30°	127	0 44 52.6	+30 35.6	7.5 ✓		64
65	0 44.5	+30 38	+30°	125	0 44 48.4	+30 40.5	8.0 ✓		65
66	0 44.1	+31 20	+31°	130	0 44 1.0	+31 13.1	8.0 ✓		66
67	0 ~~44.1~~ 43.7	+31 ~~22~~ 52	+31°	129	0 43 35.3	+31 52.2	7.1 ✓		67
68	0 44.1	+31 38	+31°	131	0 44 4.5	+31 34.2	8.0 ✓		68
69	0 48.2	+31 32	+31°	143	0 48 8.6	+31 32.7	7.8 ✓		69
70	0 49.0	+31 10	+31°	144	0 49 6.9	+31 5.6	7.9 ✓		70
71	0 51.3	+31 40	+31°	150	0 51 13.7	+31 41.5	6.8 ✓		71
72	0 51.6	+31 42	+31°	153	0 51 37.8	+31 43.6	7.3 ✓		72
73	0 52.4	+32 2	+32°	173	0 52 21.8	+32 2.2	7.9 ✓		73
74	0 52.2	+31 6	+31°	158	0 52 4.9	+31 4.6	7.7 ✓		74
75	0 52.4	+31 31	+31°	159	0 52 21.0	+31 31.9	8.5 ✓		75
76	0 53.9	+31 2	+31°	164	0 53 36.5	+31 1.6	8.5 ✓		76
77	0 54.0	+30 ~~28~~ 3	+30°	153 (147)	0 55 (53) 49.6	+30 (45.9) 24.7 (17.9)	7.8 ✓	0	77
78	0 54.2	+31 26	+31°	167	0 54 19.4	+31 22.6	8.9 ✓		78
79	0 55.1	+31 3	+31°	168	0 54 54.0	+31 2.1	5.5 ✓		79
80	0 52.2	+30 50	+30°	149	0 55 0.4	+30 48.1	9.0 ✓		80
81	0 56.2	+30 44	+30°	156	0 56 10.2	+30 43.6	7.8 ✓		81
82	0 58.0	+31 27	+31°	180	0 58 14.8	+31 24.1	7.2 ✓		82

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T 3774 0

No.	Class	Int.	Remarks
83	F2	63	
84	K5	21	
85	F0	105	
86	Ma	21	
87	G5	21	
88	B9	42	
89	O5	63	
90	G	21	
91	O5	21	
92	K0	63	
93	F5	42	
94	K2	63	
95	G	42	
96	K5	42	
97	F	42	
98	K0	84	
99	K5	42	
100	F0	63	
101	G	42	
102	F5	42	
103	F	21	
104	O3	42	
105	F0	42	
106	F0	42	
107	O2	63	
108	F0	42	
109	O2	42	

83	10.0	+31 16	+31°	185	1	0	2.1	+31	15.4	6.9 ✓
84	10.9	+30 57	+30°	172	1	0	47.2	+31	55.1	8.5 ✓
85	3.5	+30 40	+30°	181	1	3	7.6	+31	39.5	5.5 ✓
86	3.4	+30 14	+30°	182	1	3	10.7	+31	10.4	8.3 ✓
87	2.1	+30 16	+30°	177	1	2	5.2	+31	12.3	7.4 ✓
88	1.44	+31 28	+31°	196	1	4	30.7	+31	28.1	7.2 ✓
89	1.49	+31 22	+31°	197	1	4	31.9	+31	18.3	7.3 ✓
90	1 59	+31 40	+31°	200	1	5	37.2	+31	38.0	8.8 ✓
91	1.63	+31 20	+31°	207	1	6	39.1	+31	14.6	9.0 ✓
92	1.82	+32 22	+32°	223	1	8	13.9	+32	22.1	6.5 ✓
93	D 43.6	+32 45	+32°	149	0	43	15.8	+32	44.5	8.0 ✓
94	D 44.2	+33 6	+33°	117	0	44	5.1	+33	5.7	7.0 ✓
95	D 45.6	+33 8	+33°	124	0	45	26.9	+33	8.0	8.0 ✓
96	D 46.2	+32 5	+32°	160	0	46	18.9	+32	6.4	7.3 ✓
97	0 48.3	+33 6	+33°	135	0	48	15.1	+33	5.7	8.4 ✓
98	0 50.2	+33 10	+33°	140	0	50	19.0	+33	11.0	6.2 ✓
99	0 56.8	+32 27	+32°	184	0	56	42.9	+32	25.4	7.7 ✓
100	0 58.0	+32 14	+32°	191	0	57	55.4	+32	12.9	7.8 ✓
101	1 3.6	+31 40	+31°	192	1	3	7.2	+31	46.3	8.2 ✓
102	1 5.0	+32 24	+32°	204	1	5	2.5	+32	22.5	7.9 ✓
103	1 6.5	+32 17	+32°	213	1	6	37.8	+32	12.7	8.8 ✓
104	1 10.8	+32 59	+32°	229	1	10	33.3	+32	59.5	8.0 ✓
105	1 11.2	+32 44	+32°	230	1	10	48.8	+32	45.4	7.8 ✓
106	0 58.2	+33 34	+33°	167	0	58	19.4	+33	32.5	8.3 ✓
107	0 58.9	+34 46	+34°	171	0	58	58.3	+34	40.5	7.2 ✓
108	0 58.3	+34 48	+34°	182	0	58	44.6	+34	47.5	7.5 ✓
109	0 58.9	+34 26	+34°	183	0	58	46.2	+34	23.0	7.5 ✓

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Nov. 3, 1911 Court

I 37340

No	Class	Dist	Remark
110	K	21 ♯	
111	Q2	63	
112	F5	63	
113	Q2	42	
114	B	21	
115	Q0?	63	Focus poor

June 12'30

Comr. in Bert., 128, 216

110	0 57 4	+33 18	+33°	169	0 59 24.9	+33 12.7	8.2 ✓		110
111	1 1 7	+33 12	+33°	178	1 1 12.5	+33 9.6	7.0 ✓		111
112	1 2.0	+33 6	+33°	181	1 1 55.4	+33 6.4	7.0 ✓		112
113	1 1.8	+34 2	+34°	194	1 1 14.0	+34 1.7	7.4 ✓		113
114	1 4.6	+33 25	+33°	185	1 4 27.8	+33 21.0	8.0 ✓		114
115	1 5 2	+33 20	+33°	187	1 5 12.1	+33 20.6	7.0 ✓		115

Ident. by A. M. C.

Checked " J. C. M.

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Nov. 8, 1911

Small portion to fill in a gap I 36877

No	Class	Dist	Remark
1	A	63	Two stars superposed N.p. star. Only hyd. em
2	A	63	Sq Only hyd em.
3	A3	63	
4	K0	84	
5	K5	63	
6	F	21	

1	a56.0	+20 40	+20°	156	0 57 57.3	+20 42.4	5.0 ✓	Cards	1
2	φ56.1	+20 40	+20°	157	0 57 58.3	+20 42.0	6.0 ✓		2
3	1 0.4	+19 59	+19°	135	1 0 10.7	+19 57.9	5.7 ✓		3
4	1 3.7	+20 20	+20°	172	1 3 40.6	+20 158	4.7 ✓		4
5	1 2.0	+18 56	+18°	153	1 3 4.4	+18 53.6	6.8 5.8 ✓		5
6	1 1.8	+23 1	+23°	160	1 1 51.9	+23 2.1	6.8 ✓		6

Identified by A.M.B.
Checked " J.C.M.

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Nov. 3, 1911

T 37334

Time 1.10

	m	class	Int.	Remark
	1	K0	42	
	2	K0	84	
	3	M	21	0,8,10
	4	M	21	
	5	Q3	42	On edge
	6	F5	42	
	7	F	21	
	8	M?	21	
	9	Q2?	42	
	10	F	21	
	11	K0	42	
	12	F	21	
	13	K0	63	
	14	F2	63	
	15	F0	63	
	16	F	42	
	17	Q2	21	
Time 1:18	18	Q3	42	
1:30	19	F0	42	
	20	F5	21	
	21	Q0	63	
	22	Q5	21	
	23	F5	42	
	24	F5	84	
	25	F5	21	
	26	F5	42	
	27	Q0	63	

1	1.28	+24 45	+24°	186	1	2	27.9	+24 41.9	6.0 ✓
2	6.0	+23 52	+23°	158	1	5	54.1	+23 48.5	4.6 ✓
3	8.2	+25 0	+25°	205	1	8	11.8	+25 0.2	7.0 ✓
4	7.0	+25 42	+25°	200	1	6	55.2	+25 40.5	8.5 ✓
5	10.2	+25 40	+25°	211	1	10	14.3	+25 41.6	7.7 ✓
6	13.0	+24 26	+24°	198	1	13	8.3	+24 24.1	7.8 ✓
7	13.9	+24 2	+24°	200	1	13	41.7	+24 4.6	8.3 ✓
8	14.2	+24 6	+24°	205	1	14	27.5	+24 6.3	8.5 ✓
9	15.3	+23 50	+23°	184	1	15	21.8	+23 44.6	8.0 ✓
10	15.9	+25 10	+25°	232	1	15	53.6	+25 9.3	8.2 ✓
11	19.3	+24 45	+24°	212	1	19	8.2	+24 41.6	7.0 ✓
12	19.9	+24 58	+24°	217	1	19	56.2	+24 56.9	7.9 ✓
13	21.8	+24 30	+24°	222	1	21	26.9	+24 31.6	6.5 ✓
14	22.8	+25 10	+25°	258	1	22	39.8	+25 8.7	7.0 ✓
15	1.9	+23 2	+23°	150	1	1	51.9	+23 2.1	6.8 ✓
16	1.7	+22 12	+22°	182	1	1	34.1	+22 8.7	7.5 ✓
17	1.6	+21 52	+21°	152	1	1	10.8 (3.5.8)	+21 34.9 (4.8.3)	8.4 ✓
18	3.9	+21 58	+21°	161	1	3	53.3	+21 56.7	7.5 ✓
19	4.6	+22 30	+22°	192	1	4	38.7	+22 29.0	7.5 ✓
20	4.8	+22 3	+22°	195	1	5	5.2	+22 4.5	8.2 ✓
21	8.5	+22 52	+22°	204	1	8	39.0	+22 48.4	7.0 ✓
22	11.7	+23 50	+23°	175	1	11	11.4	+23 50.8	8.8 ✓
23	11.8	+23 40	+23°	176	1	11	30.0	+23 38.4	8.5 ✓
24	17.9	+22 45	+22°	226	1	17	42.9	+22 45.9	6.5 ✓
25	17.7	+22 15	+22°	223	1	17	19.1	+22 11.2	8.0 ✓
26	22.0	+22 58	+22°	238	1	21	54.6	+22 56.3	7.5 ✓
27	21.9	+22 7	+22°	236	1	21	46.7	+22 4.3	6.5 ✓

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I 37334

No	Class	Int	Remark
28	G	21	
29	G	21	
30	G	21	
31	F5-	21	
32	K2	63	
33	G	21	
34	F5-	63	
35	F5-	21	
36	G	21	
37	G5-	63	
38	F8	21	
39	A	21	
40	A2	21	
41	G5-	21	
42	A	21	
43	F5-	42	
44	A0	42	
45	A	42	
46	K0	42	
47	K0	105	
48	G5-	63	
49	A5-	42	
50	A3	42	
51	K0	42	
52	F8	21	
53	K0	105	
54	B	84	On edge
55	A5	21	

28	+22°	239	1	22	56.7	+22	26.2	8.0	✓
29	+21°	203	1	23	48.5	+28	59.6	8.3	✓
30	+22°	200	1	7	26.4	+22	6.0	8.3	✓
31	+21°	170	1	9	53.4	+21	56.9	8.4	✓
32	+21°	178	1	13	23.7	+21	36.3	7.0	✓
33	+21°	180	1	13	56.1	+21	46.6	7.5	✓
34	+21°	182	1	14	33.5	+21	19.7	7.3	✓
35	+21°	189	1	16	38.1	+21	15.9	8.0	✓
36	+22°	221	1	15	39.8	+22	10.8	8.9	✓
37	+20°	226	1	21	7.4	+20	59.0	7.8	✓
38	+20°	241	1	26	18.3	+20	25.9	8.7	✓
39	+20°	247	1	26	18.3	+20	25.9	8.7	✓
40	+20°	250	1	27	54.2	+20	4.6	9.2	✓
41	+20°	251	1	27	57.4	+20	57.0	8.4	✓
42	+20°	258	1	29	38.4	+20	56.0	8.5	✓
43	+21°	222	1	30	4.3	+21	9.3	7.0	✓
44	+21°	224	1	30	38.3	+21	11.7	7.4	✓
45	+20°	261	1	30	0.4	+20	32.1	8.0	✓
46	+20°	264	1	30	41.4	+20	40.5	6.5	✓
47	+19°	279	1	34	38.4	+19	34.0	5.3	✓
48	+19°	282	1	37	2.3	+19	21.1	6.7	✓
49	+18°	281	1	32	57.8	+18	38.8	8.2	✓
50	+17°	247	1	33	41.7	+17	55.2	8.2	✓
51	+19°	263	1	26	57.2	+19	25.5	8.0	✓
52	+18°	272	1	27	53.5	+18	56.2	8.6	
53	+20°	172	1	3	40.6	+20	15.8	4.7	✓
54	+18°	153	1	2	4.4	+18	52.6	6.8	✓
55	+18°	163	1	6	38.2	+18	21.3	8.0	✓

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Nov. 3, 1911 (Cont)

I 37334

No	Class	Int	Remark
56	A2	84	
57	K5	42	
58	F5	63	
59	F	21	
60	F5	21	
61	K5	63	
62	F8	21	
63	G0	21	
64	A0	42	
65	F	21	
66	G5	63	
67	K	21 K	
68	O	21	
69	B0	105	
70	K0	84	
71	A2	84	
72	Ma	63	
73	A5	84	
74	B	21	
75	M5	42	
76	B0	42	
77	B5	63	
78	B2	63	
79	B5	42	
80	K0	42	
81	F	21	
82	B5	42	
83	K	21	

+19° 212	1 7 41.4	+19 39.0	6.8 ✓		56
+19° 213	1 8 4.8	+19 44.9	7.1 ✓		57
+20° 186	1 9 1.1	+20 18.6	7.0 ✓		58
+20° 197	1 11 38.7	+20 6.4	8.5 ✓		59
+20° 201	1 13 3.0	+20 51.7	8.7 ✓		60
+19° 226	1 15 35.1	+19 42.6	6.2 ✓		61
+19° 229	1 16 13.3	+19 4.5	8.3 ✓		62
+19° 230	1 16 55.1	+19 23.8	8.0 ✓		63
+19° 234	1 17 28.7	+19 35.8	7.7 ✓		64
+19° 232	1 17 22.2	+19 15.9	9.0 ✓		65
+19° 238	1 18 33.1	+19 18.6	6.7 ✓		66
+19° 245	1 21 32.1	+19 43.5	8.3 ✓		67
+19° 252	1 23 59.4	+19 36.9	8.8 ✓		68
+18° 187	1 18 27.1	+18 25.1	5.3 ✓		69
+18° 189	1 18 53.1	+18 29.0	5.5 ✓		70
+17° 210	1 22 4.5	+17 36.9	6.3 ✓		71
+17° 224	1 27 0.5	+17 42.8	6.3 ✓		72
+16° 176	1 25 5.0	+16 41.9	6.5 ✓		73
+16° 172	1 25 57.5	+16 57.5	8.2 ✓		74
+16° 167	1 24 14.4	+16 13.8	7.0 ✓		75
+16° 164	1 23 26.5	+16 24.6	7.8 ✓		76
+16° 154	1 20 37.1	+16 20.1	7.2 ✓		77
+17° 200	1 16 4.1	+17 3.2	7.2 ✓		78
+16° 141	1 14 58.7	+16 26.6	8.0 ✓		79
+16° 139	1 14 38.6	+16 4.3	7.7 ✓		80
+17° 192	1 13 3.3	+17 26.9	8.3 ✓		81
+17° 189	1 12 37.0	+17 21.3	8.2 ✓		82
+17° 184	1 11 40.0	+17 21.8	7.3 ✓		83

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Nov. 3, 1911 (Cont)

I 37384

Nr	class	dist	Remark
84	G?	21	very poor
85	F8	42	
86	G5	42	
87	K0	63	Extreme edge

1: 44 ~~86~~

+17°	183	1	10	38.0	+17°	49.4	8.0	✓	84
+17°	197	1	14	25.0	+17	55.8	7.9	✓	85
+15°	244	1	31	26.9	+15	34.2	6.8	✓	86
+15°	245	1	31	52.1	+15	41.7	6.5	✓	87

Cards made May

Comt. by J. C. M.
checked by A.D.A. 11-23-11

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Nov. 4, 1911

I 10404

Time 12:24

No	Class	Dist	Remarks
1	G	63	
2	A0	42	
3	F5?	42	Focus very poor.
4	A0	63	
5	K5	63	On edge. Certainly Nova on 37310. Reduced as N.S. on 10404
6	F5	63	
7	K0	63	
8	A3	63	
9	A	21	
10	B8?	105	On edge
11	G5	63	
12	A0	21	
13	A	21	
14	F5	63	
15	F5?	42	Near edge
16	A	21	
17	A2	42	
18	A0	105	
19	A0	42	
20	K	21	
21	A0	42	
22		21	Pec. Maybe two superposed. Look up.
23	G5	63	
24	A2	21	
25	K0	42	
26	A0	21	
27	A	21	South preceding of two stars

Dm +38° 4828	23	57	17.2	+38	51.6	6.8	✓	1
Dm +34° 6061	23	57	46.3	+34	45.7	7.0	✓	2
Dm +34	3	0	0	58.5	+34	7.0	7.2	✓ 3
Dm +32° 21	0	6	32.3	+32	24.4	6.5	✓	4
Dm +32° 45	0	13	11.0	+32	6.3	6.0	✓	5
Dm +32° 48	0	13	19.3	+32	10.4	7.0	✓	6
Dm +32° 80	0	23	45.0	+32	48.0	6.0	✓	7
Dm +34° 73	0	24	32.5	+34	10.8	6.5	✓	8
Dm +33° 75	0	27	55.6	+33	39.0	7.5	✓	9
Dm +32° 101	0	29	8.2	+32	56.3	4.1	✓	10
Dm +34° 86	0	29	36.6	+34	36.2	5.8	✓	11
Dm +34° 79	0	27	45.8	+34	51.1	7.7	✓	12
Dm +35° 90	0	25	9.3	+35	3.3	7.6	✓	13
Dm +35° 8	0	1	14.1	+35	49.3	6.2	✓	14
Dm +36° 1	0	0	14.6	+36	22.3	7.3	✓	15
Dm +35° 27	0	6	4.6	+35	20.9	7.9	✓	16
Dm +35° 35	0	9	11.2	+35	49.6	7.1	✓	17
Dm +36° 92	0	12	44	+36	9.4	7.3	+35° 44 0 10 45.1 +35 58.8 4.5 ✓	18
Dm +35° 53	0	13	33.7	+35	4.5	7.1	✓	19
Dm +34° 42	0	14	45.9	+34	43.5	6.8	✓	20
Dm +35° 69	0	18	23.7	+35	1.1	7.4	✓	21
Dm +35° 66	0	17	57.5	+35	41.0	8.0	✓	22
Dm +36° 66	0	21	15.2	+36	5.7	6.3	✓	23
Dm +36° 62	0	20	58.8	+36	30.1	8.0	✓	24
Dm +36° 87	0	27	24.5	+36	1.9	6.6	✓	25
Dm +35° 110	0	30	55.6	+35	47.5	7.8	✓	26
Dm +35° 117	0	32	42.4	+35	39.1	7.7	✓	27

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Nov. 4, 1911 (Cont)

I 10404

	Class	Int	Remark
~~28~~			
28	F	21	
29	B5	63	
30	A0	105	
31	F5	42	
32	F2	84	
33	K	42	
34	Ma	42	
35	F8	42	
36	Q2	63	
37	F0	63	
38	G	84	Focus poor
39	A0	42	
40	A	63	Focus poor
41	G	42	
42	F5	63	
43		42	Clusters no bright lines
44	A2	42	
45	F	42	
46	F0	63	
47	G5	42	
48	A0	42	

Time 12:36

Dm +36° 8	0	3	16.0	+36	40.3	7.5	✓	28
Dm +36° 12	0	5	18.5	+36	53.6	6.8	✓✓	29
Dm +37° 34	0	9	32.0	+37	53.0	4.5	✓	30
Dm +37° 42	0	12	27.2	+37	26.5	6.8	✓	31
Dm +37° 45	0	13	29.8	+37	9.6	5.7	✓	32
Dm +37° 48	0	13	57.0	+37	23.2	7.5	✓	33
Dm +37° 54	0	15	19.8	+37	57.0	7.0	✓	34
Dm +37° 75	0	22	9.8	+37	31.6	7.4	✓	35
Dm +38° 64	0	23	42.1	+38	10.9	7.3	✓	36
Dm +38° 68	0	24	58.8	+38	2.8	7.0	✓	37
Dm +38° 90	0	33	17.1	+38	39.0	5.5	✓	38
Dm +38° 94	0	34	0.6	+38	5.9	7.6	✓	39
Dm +39° 138	0	29	39.1	+39	32.1	6.5	✓	40
Dm +39° 154	0	32	54.6	+39	25.2	7.0	✓	41
Dm +39° 158	0	34	9.5	+39	53.6	7.0	✓	42
Dm +40° 148	0	34	49.7	+40	28.4	nib	nar nova ✓	43
Dm +37° 3	0	0	23.4	+37	54.2	7.7	✓	44
Dm +39° 22	0	4	41.6	+39	5.4	7.7	✓	45
Dm +40° 29	0	5	59.4	+40	14.1	5.7	✓	46
Dm +39° 56	0	12	5.8	+39	55.4	6.6	✓	47
Dm +40° 114	0	23	8.0	+40	42.9	7.3	✓	48
								49

Corr made by

Idnct by a.D.H.

Checked by J.B.M.

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Nov. 13, 1911

Time 2.15 Plate I 3718

No	Telescope	Ent	Remarks
1	78	63	
2	K0	47	
3	78	42	
4	Q2	63	
5	Y5	21	
6	Y5	21	
7	Y0	42	
8	Y5	42	
9	Ma	21	
10	K	21	
11	Y5	421	
12	Ma	21	
13	75	21	
14	75	63	
15	Y	21	
16	Y5	42	
17	Q0	421	
18	Q0	42	
19	70	63	
20	K0	63	
21	Q	21	
22	K0	84	
23	Y	42	
24	7	105	
25	Q3	42	
26	7	63	
27	Y5	421	

+33°	326	i	17	42.9	+22	45.9	6.5 ✓	1
+24°	322	i	21	26.9	+24	31.6	6.5 ✓	2
+22°	238	i	21	54.6	+22	56.3	7.5 ✓	3
+32°	336	i	21	46.7	+22	4.3	6.5 ✓	4
+22°	239	i	23	56.7	+22	26.2	8.0 ✓	5
+21°	203	i	23	48.5	+21	59.6	8.3 ✓	6
+23°	204	i	25	22.8	+23	13.3	7.3 ✓	7
+22°	246	i	25	33.2	+22	50.6	7.4 ✓	8
+21°	208	i	25	26.3	+21	48.3	9.0 ✓	9
+22°	247	i	26	31.0	+22	39.7	8.5 ✓	10
+24°	239	i	29	28.2	+24	26.5	7.3 ✓	11
+21°	217	i	28	53.4	+21	42.4	8.5 ✓	12
+21°	218	i	29	36.5	+21	50.5	8.8 ✓	13
+21°	220	i	29	41.9	+21	49.5	8.0 ✓	14
+21°	221	i	30	1.2	+21	58.0	8.0 ✓	15
+22°	257	i	33	9.7	+22	17.9	7.0 ✓	16
+24°	264	i	41	7.4	+24	0.3	7.3 ✓	17
+23°	244	i	41	24.1	+23	57.6	8.0 ✓	18
+23°	246	i	43	9.4	+23	55.5	7.0 ✓	19
+23°	252	i	44	8.4	+23	24.6	7.2 ✓	20
+23°	254	i	46	6.6	+23	25.7	8.5 ✓	21
+22°	284	i	47	47.7	+22	52.4	6.5 ✓	22
+22°	287	i	48	45.5	+22	20.4	8.0 ✓	23
+22°	288 / 287	i	49	52.6 / 54.1	+22	53.2 / 53.6	5.0 / 8.5 ✓	24
+24°	288	i	51	9.7	+24	8.1	7.7 ✓	25
+22°	296	i	53	30.1	+22	41.4	7.0 ✓	26
+20°	226	i	21	7.8	+20	59.0	7.8 ✓	27

Corrected

Made

Out

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Nov. 13, 1911 Cont

I 3731 δ

No	Class	Dist.	Remark
28	A3	21	
29	K	21	
30	F5	21	
31	F0	21	
32	K0	63	
33	A3	21	
34	A2	21	
35	K0	21	
36	K	21	
37	A	21	
38	F5	42	
39	A0	63 &	Entirely resembles γ Eridani
40	K2	63	
41	A5	10.5	
41a	A0	42	
42	K5	63	
43	B8	42	
44	Ma	21	
45	F0	21	
46	G0	21	
47	F5	63	
48	F5	42	
49	K	21	
50	F0	42	
51	F5	21	
52	F0	63	
53	A2	21	
54	A0	10+57	
55	F0	42	

+19° 252	1	23	59.4	+19	36.9	8.8 ✓	28
+19° 245	1	21	32.1	+19	43.5	8.3 ✓	29
+19° 258	1	25	13.9	+19	58.8	9.1 ✓	30
+20° 241	1	26	18.3	+20	25.9	8.7 ✓	31
+19° 263	1	26	57.2	+19	25.5	8.0 ✓	32
+20° 247	1	27	24.6	+20	14.9	8.5 ✓	33
+20° 250	1	27	54.2	+20	4.6	9.2 ✓	34
+20° 251	1	27	57.4	+20	57.0	6.4 ✓	35
+19° 269	1	29	13.0	+19	57.4	8.5 ✓	36
+20° 258	1	29	38.4	+20	66.0	8.5 ✓	37
+21° 222	1	30	4.3	+21	9.3	7.0 ✓	38
+21° 224	1	30	58.3	+21	11.7	7.4 ✓	39
+20° 264	1	30	41.4	+20	40.5	6.5 ✓	40
+19° 279	1	34	38.4	+19	34.0	5.3 ✓	41
+20° 261	1	30	0.7	+20	32.1	8.0 ✓	41a
+19° 282	1	37	2.3	+19	21.1	6.7 ✓	42
+20° 283	1	39	13.0	+20	27.5	8.2 ✓	43
+20° 285	1	39	31.0	+20	40.7	8.5 ✓	44
+20° 287	1	40	6.9	+20	56.6	8.4 ✓	45
+21° 242	1	40	37.4	+21	40.5	8.1 ✓	46
+21° 243	1	42	9.2	+21	32.8	6.0 ✓	47
+21° 250	1	45	7.9	+21	18.0	8.3 ✓	48
+20° 302	1	45	26.0	+20	54.5	8.8 ✓	49
+20° 296	1	43	1.7	+20	24.3	8.5 ✓	50
+19° 294	1	42	55.1	+19	53.1	9.1 ✓	51
+19° 296	1	43	13.0	+19	48.6	7.5 ✓	52
+20° 299	1	44	33.5	+20	20.8	9.0 ✓	53
+20° 306	1	46	37.5	+20	5.8	2.5 ✓	54
+20° 314	1	49	55.4	+20	39.6	8.2 ✓	55

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Nov. 13, 1911 (Cont)

I 37318

No	Class	Sect	
56	Ko	63	
57	B5	42	
58	A	42	Wedge
59	Ko	63	
60	F	84	
61	Ko	63	
62	A2	63	
63	Ma	63	
64	B8	21	
65	B	21	
66	A5	42	
67	A2	42	
68	B5	21	
69	B8	21	
70	B	42	
71	Ko	63	
72	B5?	10+5+	Burned out
73	B	21	
74	B	21	
75	B2	21	
76	A2	21	
77	B5	42	
78	B5	84	
79	B	21	
80	B5	42	
81	B5	21	
82	B d5	21	
83	F0	42	

+20°	322	i	5	34.5	+20	21.0	6.5	✓	56
+21°	270	i	5	4 3.6	+21	25.0	7.5	✓	57
+19°	234	i	17	28.7	+19	35.8	7.7	✓	58
+19°	238	i	18	33.1	+19	18.6	6.7	✓	59
+18°	187	i	18	27.1	+18	25.1	5.3	✓	60
+18°	189	i	18	53.1	+18	29.0	5.5	✓	61
+17°	210	i	22	4.5	+17	36.9	6.3	✓	62
+17°	224	i	27	0.5	+17	42.8	6.3	✓	63
+18°	272	i	27	53.5	+18	55.2	8.6	✓	64
+17°	229	i	29	30.4	+17	28.3	8.9	✓	65
+18°	281	i	32	57.8	+18	38.8	8.2	✓	66
+17°	247	i	33	41.7	+17	55.2	8.2	✓	67
+19°	277	i	33	44.8	+19	6.1	8.2	✓	68
+17°	262	i	39	10.1	+17	57.6	8.5	✓	69
+17°	273	i	43	38.7	+17	48.3	8.2	✓	70
+17°	276	i	43	54.4	+17	33.8	7.2	✓	71
+18°	243	i	45	35.6	+18	35.9	3.5	✓	72
+19°	305	i	48	19.0	+19	1.2	8.3	✓	73
+18°	252	i	49	36.1	+18	17.3	8.8	✓	74
+17°	285	i	48	6.4	+17	44.9	8.3	✓	75
+17°	291	i	50	26.3	+17	34.4	8.7	✓	76
+17°	292	i	50	59.8	+17	38.9	7.7	✓	77
+17°	289	i	49	26.2	+17	6.4	5.5	✓	78
+16°	225	i	50	7.6	+16	49.8	8.5	✓	79
+16°	154	i	20	37.1	+16	20.1	7.2	✓	80
+16°	186	i	21	54.1	+16	21.5	8.3	✓	81
+16°	165	i	23	29.6	+16	49.2	8.8	✓	82
+16°	164	i	23	26.5	+16	24.6	7.8	✓	83

Comas made out

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Nov. 13, 1911 (Cont)

T 37318

No	Class	Dist
84	Ys	42
85	K	21
86	A5	84
87	F	21
88	Ys	42
89	Ko	63
90	F	21
91	K	21
92	Fo	63
93	B8?	105
94	Yo	42
95	Fs	21
96	Fo	42
97	Fs	42
98	Gs	21
99	Fs	21
Jmo 2:35 100	F	42
~~101~~		

	+16° 16.7	1	24	14.4	+16	13.8	7.0 ✓	84
	+16° 17.2	1	25	57.5	+16	57.5	8.2 ✓	85
	+16° 17.6	1	28	5.0	+16	41.9	6.5 ✓	86
	+16° 18.3	1	31	7.2	+16	29.4	8.5 ✓	87
	+15° 24.4	1	31	26.9	+15	54.2	6.8 ✓	88
	+15° 24.5	1	31	52.1	+15	41.7	6.5 ✓	89
	+15° 24.7	1	33	24.0	+15	47.9	8.5 ✓	90
	+15° 25.1	1	34	39.4	+15	2.8	7.8 ✓	91
	+16° 19.6	1	38	43.5	+16	41.5	6.5 ✓	92
	+16° 20.3	1	40	19.1	+16	14.8	6.0 ✓	93
	+16° 20.4	1	40	30.2	+16	18.0	8.2 ✓	94
95	+16° 20.5	1	40	40.2	+16	39.8	8.5 ✓	95
	+15° 26.8	1	41	4.6	+15	40.0	7.5 ✓	96
	+17° 27.4	1	43	46.3	+17	5.0	8.2 ✓	97
	+16° 21.0	1	44	3.6	+16	21.8	8.3 ✓	98
	+16° 21.1	1	45	27.8	+16	21.8	8.3 ✓	99
	+16° 21.6	1	46	53.0	+16	51.2	8.5 ✓	100

Ident. by J. C. M.
Checked by A. D. F. 11-24-11

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Nov. 24, 1911

June 10; 44

I 37368

No	class	Dist	Remark
1	F5	63	
2	G5	42	
3	F5	21	
4	G	42	
5	K0	42	
6	G	42	
7	F2	21	
8	Ma	105	
9	M0	63	
10	G	21	
11	K0	42	
12	B5	63	
13	A2	42	
14	K0	42	
15	B8	105	
16	K0	63	
17	K5	42	
18	K5	42	
19	K0	105	
20	A3	42	
21	K5	63	
22	F0	63	
23	F5	42	
24	F5	63	
25	K	21	
26	K0	42	
27	K	21	

Dm +19°	10	0	1	37.8	+19	6.5	6.7	✓	1
Dm +18°	4	0	2	4.3	+18	44.2	7.8	✓	2
Dm +18°	5	0	21	19.9	+18	35.4	8.4	✓	3
Dm +18°	3	0	1	58.7	+18	18.4	7.8	✓	4
Dm +18°	11	0	4	7.8	+18	5.8	8.2	✓	5
Dm +19°	18	0	4	58.6	+19	25.4	8.0	✓	6
Dm +19°	19	0	5	37.0	+19	23.7	8.6	✓	7
Dm +19°	27	0	7	6.8	+19	24.6	5.0	✓	8
Dm +19°	38	0	10	21.9	+19	26.1	6.8	✓	9
Dm +18°	28	0	11	6.0	+18	51.7	8.2	✓	10
Dm +19°	43	0	11	53.7	+19	11.1	7.7	✓	11
Dm +17°	33	0	13	20.1	+17	40.8	7.5	✓	12
Dm +19°	53	0	15	40.9	+19	16.8	7.8	✓	13
Dm +19°	57	0	17	13.4	+19	15.8	8.0	✓	14
Dm +19°	64	0	18	31.0	+19	21.6	6.5	✓	15
Dm +18°	51	0	20	26.0	+18	42.6	6.8	✓	16
Dm +18°	66	0	24	10.5	+18	39.5	8.0	✓	17
Dm +18°	67	0	24	21.0	+18	50.4	7.0	✓	18
Dm +19°	79	0	24	59.4	+19	30.1	5.5	✓	19
Dm +19°	83	0	26	3.9	+19	38.8	7.5	✓	20
Dm +17°	67	0	24	58.6	+17	59.0	7.1	✓	21
Dm +17°	68	0	25	25.7	+17	35.3	8.5	✓	22
Dm +17°	70	0	25	41.5	+17	9.6	8.7	✓	23
Dm +17°	66	0	24	18.5	+17	17.6	8.1	✓	24
Dm +16°	43	0	23	39.2	+16	57.4	9.0	✓	25
Dm +17°	61	0	23	4.2	+17	1.0	8.6	✓	26
Dm +16°	39	0	22	10.8	+16	48.5	8.5	✓	27

Vars made out

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Nov. 24, 1911 (cont.)

I 37368

No.	Class	Int.	Remarks
28	A	21	
29	M5	105	
30	F8	21	
31	F5	42	
32	F5	21	
33	F0	21	
34	G	42	
35	F8	42	
36	G5	42	
37	K0	84	
38	G0	63	
39	G5	63	
40	F0	21	
41	F2	42	
42	G5	21	
43	Q5	42	
44	F5	42	
45	F5	63	
46	F5	21	
47	Q5	21	
48	K0	84	
49	F5	63	
50	F5	21	
51	Q3	42	
52	F5	63	
53	F5	63	
54	G	21	

Dm +16°	38	0	21	0.1	+16	52.8	9.2	✓	28
Dm +17°	55	0	20	29.6	+17	5.1	5.4	✓	29
Dm +17°	52	0	19	28.0	+17	5.6	8.5	✓	30
Dm +17°	49	0	18	39.4	+17	46.0	8.5	✓	31
Dm +18°	42	0	18	24.0	+18	15.0	8.3	✓	32
Dm +17°	42	0	16	22.0	+17	46.5	9.0	✓	33
Dm +16°	27	0	15	39.8	+16	57.8	8.7	✓	34
Dm +16°	14	0	7	41.9	+16	53.2	8.9	✓	35
Dm +17°	17	0	6	16.0	+17	49.3	8.4	✓	36
Dm +17°	7	0	1	34.9	+17	25.7	5.7	✓	37
Dm +16°	3	0	1	54.2	+16	44.2	7.0	✓	38
Dm +16°	11	0	5	42.0	+16	6.9	7.5	✓	39
Dm +16°	14	0	6	20.0	+15	45.8	8.7	✓	40
Dm +15°	16	0	6	59.0	+15	50.0	8.5	✓	41
Dm +15°	22	0	7	32.1	+15	24.8	8.6	✓	42
Dm +15°	30	0	9	5.8	+15	1.9	8.2	✓	43
Dm +15°	35	0	9	53.0	+15	42.3	8.3	✓	44
Dm +15°	39	0	10	19.3	+15	32.1	7.4	✓	45
Dm +15°	43	0	11	13.3	+15	10.7	8.7	✓	46
Dm +15°	45	0	11	44.8	+15	31.5	8.5	✓	47
Dm +15°	47	0	12	27.8	+15	27.3	7.0	✓	48
Dm +16°	25	0	14	27.7	+16	5.3	7.8	✓	49
Dm +15°	54	0	15	46.4	+15	56.7	9.0	✓	50
Dm +16°	31	0	17	5.6	+16	10.8	8.0	✓	51
Dm +16°	33	0	17	40.0	+16	11.9	8.2	✓	52
Dm +15°	56	0	17	7.9	+15	36.4	8.0	✓	53
Dm +16°	35	0	19	25.4	+16	16.3	9.0	✓	54

Carbr. made ok

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Nov. 24, 1911 (Cont).

I 3736 8

No.	Class	Int.	Remark
.53	F5	63	
.56	K2n	84	
.57	A5	105	
.58	K	21	
.59	Ko	42	
.60	Go	105	
.61	Ko	42	
.62	F8	21	
.63	F0	21	
.64	Ko	63	
.65	K	21	
.66	F5	84	
.67	K2n	42	
.68	Ko	42	
.69	F2n	21	
.70	F2n	63	
.71	K	21	
.72	K	63	
.73	G	42	
.74	F5	42	
.75	B3	105	
.76	F0	42	
.77	F5	42	
.78	Ko	63	
.79	F5	84	
.80	G	42	
.81	Ko	63	
.82	A5	42	

Dm	+15°	62	0	20	36.2	+15	54.3	8.0	✓
Dm	+15°	63	0	20	41.7	+15	37.7	6.0	✓
Dm	+15°	59	0	20	0.2	+15	13.6	6.7	✓
Dm	+15°	66	0	21	34.0	+15	11.6	8.7	✓
Dm	+15°	67	0	22	48.3	+15	48.1	8.6	✓
Dm	+15°	69	0	23	16.2	+15	13.0	7.0	✓
Dm	+14°	53	0	22	48.9	+14	59.3	7.8	✓
Dm	+14°	57 / 53	0	23 / 22	15.7 / 48.9	+14	49.0 / 59.2	8.7 / 7.8	✓
Dm	+15°	72	0	23	36.0	+15	37.7	8.5	✓
Dm	+15°	73	0	24	5.2	+15	13.0	7.0	✓
Dm	+14°	60	0	24	43.9	+14	55.1	8.5	✓
Dm	+15°	74	0	25	22.9	+15	22.8	7.1	✓
Dm	+16°	47	0	25	30.2	+16	18.5	8.8	✓
Dm	+16°	45	0	24	15.3	+16	28.3	8.7	✓
Dm	+15°	90	0	27	35.5	+15	43.2	8.8	✓
Dm	+15°	93	0	28	17.7	+15	47.4	7.6	✓
Dm	+15°	95	0	29	45.1	+15	42.9	8.6	✓
Dm	+15°	100	0	32	43.6	+15	2.4	7.8	✓
Dm	+15°	101	0	32	54.0	+15	48.5	8.5	✓
Dm	+14°	78	0	29	33.9	+14	20.6	8.3	✓
Dm	+14°	76	0	29	16.3	+14	26.6	6.1	✓
Dm	+13°	73	0	26	40.7	+13	42.7	7.5	✓
Dm	+13°	69	0	25	46.2	+13	3.1	7.4	✓
Dm	+12°	57	0	27	23.6	+12	35.1	6.0	✓
Dm	+12°	59	0	28	25.5	+12	25.4	6.5	✓
Dm	+12°	64	0	29	1.5	+12	28.9	8.3	✓
Dm	+12°	47	0	24	11.9	+12	7.3	7.2	✓
Dm	+13°	5289	23	59	58.8	+13	51.6	8.7	✓

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Nov. 24, 1911 (Court)

I 37368

No.	Class	Int	Remarks
83	K0	42	
84	Q2	21	
85	F5	42	
86	F0	21	
87	K	21	
88	B3	1057	Classified from trail
89	K	21	
90	Q3	63	Line 4026 appears to be present
91	K	21	
92	F8	42	
93	F0	42	
94	Q3	63	
95	K0	63	
96	K0	63	
97	F5	42	
98	K2	21	
99	K2	21	
100	G	42	Focus poor
101	F0	42	
102	G5	21	
103	K2	21	
104	G5	63	
105	Q3	42	
106	K0	84	
107	K0	63	
108	Q0	84	Near edge
109	F5	42	
110	K0	42	

Dm +13°	3	0	1	19.9	+13	20.0	7.8	✓		83
Dm +14°	7	0	2	59.5	+14	36.4	8.8	✓		84
Dm +14°	8	0	3	4.9	+14	26.4	8.2	✓		85
Dm +14°	9	0	3	45.5	+14	28.8	9.1	✓		86
Dm +14°	11	0	5	18.6	+14	46.0	8.6	✓		87
Dm +14°	14	0	5	47.1	+14	22.9	2.5	✓		88
Dm +13°	26	0	8	34.0	+13	53.2	8.5	✓		89
Dm +13°	27	0	9	17.8	+13	6.6	7.5	✓		90
Dm +13°	34	0	11	48.0	+13	15.9	8.2	✓		91
Dm +12°	18	0	11	44.8	+12	47.3	8.0	✓		92
Dm +12°	20	0	12	24.5	+12	35.4	8.5	✓		93
Dm +11°	44	0	13	31.1	+11	57.6	7.2	✓		94
Dm +12°	25	0	14	56.3	+12	41.6	6.2	✓		95
Dm +13°	46	0	17	9.3	+13	31.2	7.0	✓		96
Dm +14°	42	0	18	0.9	+14	46.2	8.4	✓		97
Dm +13°	52	0	20	1.8	+13	37.8	8.5	✓		98
Dm +12°	36	0	20	15.4	+12	54.3	8.8	✓		99
Dm +12°	40	0	22	1.5	+12	41.3	9.0	✓		100
Dm +14°	17	0	5	32.0	+14	30.8	7.8	✓		101
Dm +12°	13	0	6	42.6	+12	45.7	8.4	✓		102
Dm +12°	14	0	8	5.5	+12	37.2	8.3	✓		103
Dm +11°	34	0	10	28.8	+11	58.0	6.5	✓		104
Dm +11°	23	0	10	11.9	+11	13.7	8.0	✓		105
Dm +10°	25	0	10	51.0	+10	23.8	6.8	✓		106
Dm +10°	31	0	13	4.3	+10	7.5	7.5	✓		107
Dm +10°	32	0	13	26.7	+10	10.9	7.2	✓		108
Dm +11°	41	0	13	10.4	+11	31.5	8.0	✓		109
Dm +11°	51	0	15	58.7	+11	1.4	8.0	✓		110

Cards made out

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Nov. 24, 1911 (Cont.)

I 37368

No	Class	Int
111	F0	42
112	A5	63
113	A2	84

Curve 11: 08

DM +10°	54	0	21	38.2	+10	31.4	8.0	✓	111
DM +10°	57	0	24	0.3	+10	44.6	7.5	✓	112
DM +10°	65	0	29	46.1	+10	37.6	7.3	✓	113

Card made out

Ident. by A.D.H. 11-27-11

Checked by J.C.M. Dec. 11, '11

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Nov. 27, 1911

Swift 2.32

I 37367

No.	Class	Ext.	Remark
1	Ao	63	
2	F8	63	
3	A—	21	
4	Ao	84	
5	F	42	
6	Ko	63	
7	F5	63	
8	Indef	63	No bright lines
9	G5	42	
10	K	21	
11	Ma	42	
12	F5	63	
13	A—	42	
14	F	42	
15	Q?	42	Near edge
16	Ko	42	
17	G5	63	
18	B8?	10+57	Banned out.
19	B8	42	
20	Ao	63	
21	Q	42	
22	Q3	42	
23	A	21	
24	Ko	63	
25	Ao	42	
26	Q2	105	
27	F5	63	

1	0 23.1	+40 42	+40°	104	0	23	8.0	+40 42.9	7.3 v
2			+39°	115	0	25	44.2	+39 18.1	7.2 v
3			+39°	127	0	27	46.4	+39 38.9	8.3 v
4			+39°	138	0	29	39.1	+39 32.1	6.5 v
5			+41°	96	0	29	52.6	+41 44.8	8.0 v
6			+39°	154	0	32	54.6	+39 25.2	7.0 v
7			+39	188	0	34	9.5	+39 53.6	7.0 v
8			+40°	148	0	34	49.7	+40 28.4	mb v
9			+39°	165	0	36	11.3	+39 38.0	8.0 v
10			+39°	166	0	36	23.4	+39 53.1	8.5 v
11			+39°	167	0	36	42.4	+39 53.1	7.1 v
12			+40°	158	0	38	6.7	+40 0.8	7.6 v
13			+39°	176	0	38	17.4	+39 38.1	8.4 v
14			+41°	130	0	39	6.4	+41 9.7	8.6 v
15			+41°	133	0	39	30.4	+41 26.6	8.5 v
16			+40°	165	0	41	4.3	+40 20.8	8.0 v
17			+40°	167	0	41	18.3	+40 17.8	7.6 v
18			+40°	171	0	41	51.3	+40 17.6	4.7 v
19			+40°	172	0	42	28.0	+40 1.3	7.5 v
20			+40°	177	0	43	30.4	+40 28.2	7.3 v
21			+40	186	0	45	52.7	+40 41.8	8.5 v
22			+41°	168	0	47	7.7	+41 27.9	7.8 v
23			+41°	164	0	47	9.9	+41 53.7	8.0 v
24			+42°	205	0	48	27.2	+42 11.9	6.5 v
25			+40°	199	0	51	19.0	+40 9.5	8.5 v
26			+40°	209	0	54	47.4	+40 33.1	6.0 v
27			+40°	222	0	59	17.2	+40 28.9	6.8 v

Comet March 1911

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Nov. 27, 1911 (Cont)
I 37367

No.	Class	Int.	Remark
28	A0	63	
29	G0	84	Too near edge
30	A0	42	
31	A2	42	
32	G	42	
33	A	21	
34	A	21	
35	F	63	
36	G5	63	
37	A	21	Superposed on 38
38	A2	63	
39	F0	63	
40	K5	42	
41	G5	21	
42	F0	42	
43	F0	42	
44	K	21	
45	K2	42	
46	G5	84	
47	B3	42	
48	B8	63	
49	K	21	
50	K0	42	
51	K	21	
52	F8	42	
53	K0	42K	
54	M?	21	very faint.
55	F8	42	

28	+40°	224	0 59 35.4	+40 46.2	6.5 v
29	+41°	219	1 2 8.3	+41 18.2	6.2 v
30	+42°	240	0 59 51.7	+42 4.1	7.0 v
31	+40°	231	1 2 2.5	+40 9.2	7.5 v
32	+40°	235	1 3 0.2	+40 28.2	7.0 v
33	+40°	239	1 3 47.5	+40 20.9	8.3 v
34	+40°	245	1 4 10.4	+40 32.7	7.8 v
35	+40°	244	1 4 3.1	+40 9.0	7.3 v
36	+40°	2 448	1 4 46.9	+40 53.8	7.0 v
37	+38°	63	0 23 37.2	+38 13.3	8.5 v
38	+38°	64	0 23 42.1	+38 10.9	7.3 v
39	+38°	68	0 24 58.8	+38 2.8	7.0 v
40	+37°	98	0 28 18.8	+37 27.1	7.2 v
41	+38°	75	0 29 1.5	+38 49.3	8.7 v
42	+38°	79	0 30 6.7	+38 33.0	8.7 v
43	+38°	80	0 30 16.5	+38 53.6	8.3 v
44	+38°	85	0 32 17.2	+38 37.6	8.3 v
45	+38°	88	0 32 42.2	+38 43.5	8.0 v
46	+38°	90	0 33 17.1	+38 39.0	5.5 v
47	+38°	91	0 33 21.4	+38 47.9	8.0 v
48	+38°	94	0 34 0.6	+38 5.9	7.6 v
49	+38°	108	0 38 42.9	+38 49.5	8.6 v
50	+38°	112	0 39 26.2	+38 14.4	7.8 v
51	+37°	133	0 39 23.7	+37 49.8	9.0 v
52	+37°	143	0 41 36.9	+37 24.9	7.7 v
53	+37°	144 / 145	0 42 10.2	+37 26.8 / 35.3	8.4 / 8.9 superposed? v
54	+38°	120	0 42 26.4	+38 4.4	8.7 v
55	+38°	124	0 43 39.7	+38 38.6	8.9 v

Cards made out

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Nov 27, 191 (Cont)
T 37367

No.	Class	Int.	Remark
56	F8	84	
57	A2	42	Another sp. superposed ? Strong line Vetrenii H_γ & $H\delta$
58	A2	63	
59	F0	42	
60	A0	63	
61	A0	84	
62	F0	42	
63	F5	21	
64	A0	63	
65	M2	21	
66	A0	42	
67	A0	10+5	
68	K0	63	
69	F5	42	
70	B9	42	
71	F0	42	
72	F8	42	
73	K0	21	
74	K	21	
75	A5	42	
76	A	42	
77	A5	63	
78	F0	84	
79	K	21	
80	K5	42	
81	M2	42	
82	K	42	
83	F8	63	

56	+39°	198	0h	44m	54.1	+39°	27.5	6.5 v
57	+39°	204	0	46	9.7	+39	15.8	8.8 v
58	+39°	210	0	47	25.4	+39	35.8	7.2 v
59	+39°	217	0	49	3.5	+39	46.2	7.8 v
60	+39°	224	0	51	23.0	+39	22.5	7.0 v
61	+37°	157	0	44	55.8	+37	46.0	6.7 v
62	+38°	129	0	45	12.8	+38	14.1	7.8 v
63	+38°	131	0	45	49	+38	22.2	8.1 v +38° 130 superposed
64	+38°	136	0	46	19.1	+38	16.1	8.0 v
65	+38°	140	0	46	39.0	+38	22.8	8.2 v +38° 139 superposed?
66	+38°	146	0	47	58.3	+38	22.8	8.6 v
67	+37°	175	0	48	43.8	+37	42.7	4.2 v
68	+38°	148	0	50	8.2	+38	41.7	6.8 v
69	+38°	155	0	51	8.2	+38	49.4	8.0 v
70	+38°	162	0	51	32.6	+38	53.4	8.2 v
71	+38°	154	0	51	1.1	+38	8.9	8.7 v
72	+37°	187	0	52	14.8 15.3	+37	30.8 31.1	9.0 9.0 v
73	+37°	189	0	52	28.8	+37	47.6	8.3 v
74	+38°	170	0	53	28.2	+38	2.4	8.9 v
75	+38°	169	0	53	24.1	+38	50.7	8.7 v +38° 167 superposed?
76	+38°	177	0	54	22.1	+38	50.7	8.5 v
77	+38°	176	0	54	27.7	+38	41.7	8.0 v
78	+39°	259	0	56	28.8	+39	12.1	6.5 v
79	+38°	187	0	57	42.4	+38	35.8	8.0 v
80	+38°	183	0	56	37.8	+38	7.4	8.2 v
81	+37°	199	0	56	0.1	+37	54.2	7.3 v
82	+37°	202	0	57	3.8	+37	42.0	8.5 v
83	+37°	210	0	57	4.1	+37	52.6	7.2 v +37° 211 superposed?

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Nov. 27, 1911 (Cont.)

I 37367

No.	Class	Int.	Remark
84	F8	42	
85	F0	21	
86	A5	42	
87	F2	63	
88	B8	105	Burned out
89	A5	21	
90	F5	42	
91	B9	84	
92	G	42	
93	K	21	
94	K0	63	
95	A0	42	
96	A5	42	
97	K	21	
98	K	105	
99	KA0	63	
100	A0	63	
101	A3	84	
102	A5	42	
103	A	42	
104	F5	42	
105	G	21	
106	F8	21	
107	F	21	
108	K	21	
109	K0	42	
110	K0	42	
111	A	42	

84	+38°	194	0	59	51.0	+38	28.6	7.9 v
85	+39°	269	1	1	26.6	+39	1.2	8.0 v
86	+38°	202	1	1	36.0	+38	3.2	8.2 v
87	+37°	228	1	1	37.6	+37	20.6	7.5 v
88	+36°	201	1	3	2.4	+36	57.0	6.0 v
89	+37°	220	1	0	38.6	+37	39.1	8.2 l
90	+37°	219	1	0	34.5	+37	29.1	8.3 v
91	+37°	213	0	59	17.0	+37	15.5	6.9 v
92	+36°	77	0	24	6.2	+36	9.9	7.9 v
93	+36°	82	0	25	34.1	+36	23.2	8.2 v
94	+36°	87	0	27	24.5	+36	1.9	6.6 v
95	+35°	98	0	27	49.3	+35	46.8	8.3 v
96	+35°	99	0	27	59.7	+35	26.8	8.5 v
97	+34°	81	0	28	32.7	+34	59.1	8.4 v
98	+34°	86	0	29	36.6	+34	36.2	5.8 v
99	+34°	79	0	27	45.8	+34	51.1	7.7 v
100	+35°	90	0	25	9.3	+35	3.3	7.6 v
101	+34°	73	0	24	32.5	+34	10.8	6.5 v
102	+37°	85	0	24	25.2	+37	28.9	8.8 v
103	+37°	99	0	28	32.5	+37	2.0	8.9 v
104	+37°	106	0	30	39.8	+37	13.5	8.3 v
105	+37°	114	0	32	36.8	+37	14.9	8.7 v
106	+37°	117	0	33	14.0	+37	28.7	8.8 v
107	+37°	120	0	34	28.7	+37	8.2	9.1 v
108	+36°	112	0	34	43.5	+36	25.6	8.4 v
109	+36°	114	0	36	1.2	+36	45.9	8.0 v
110	+36°	117	0	37	18.5	+36	35.3	7.8 v
111	+36°	124	0	39	23.2	+36	28.9	8.7 v

Cards made out

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Nov. 27, 1911 (Cont.)

I 37367

No.	Class	Int.	Remark
112	A	42	
113	A	42	
114	A	63	
115	F0	63	
116	A2	63	
117	A3	42	
118	A5	21	
119	K0	42	
120	A2	21	
121	A	21	
122	F	63	
123	A5	63	
124	K	21	
125	F5	42	
126	F5	42	
127	A	63	
127a	A	42	
128	F8	84	
129	A2	42	
130	K0	84	
131	K0	42	
132	G5	21	
133	G5	42	
134	F0	84	
135	F2	42	
136	F0	42	
137	A0	84	
138	G	42	
139	F0	42	

112	+36°	126	0	39	47.2	+36	50.4	8.5 v
113	+36°	101	0	40	30.2	+36	16.1	8.5 v
114	+35°	110	0	40	55.6	+35	47.5	7.8 v
115	+35°	110	0	41	47.9	+35	57.6	7.6 v
116	+35°	117	0	42	42.4	+35	39.1	7.7 v
117	+35°	121	0	42	48.3	+35	44.0	8.2 v
118	+35°	132	0	45	33.0	+35	20.6	8.8 v
119	+34°	108	0	45	21.6	+34	33.9	8.0 v
	+34°	107	0	45	14.7	+34	12.4	8.9
120	+36°	121	0	48	8.8	+36	5.4	9.2 v
121	+36°	121	0	48	8.8	+36	6.4	9.2 v
122	+35°	145	0	50	7.7	+35	41.8	7.4 v
123	+35°	146	0	50	8.0	+35	24.7	7.4 v
124	+34°	117	0	50	17.7	+34	57.0	8.0 v
125	+35°	151	0	52	2.2	+35	18.6	8.5 v
126	+35°	152	0	52	23.7	+35	0.4	8.3 v
127	+36°	140	0	53	25.2	+36	14.2	7.9 v
127a	+34°	121	0	52	6.4	+34	32.5	8.4 v
128	+34°	122	0	52	8.1	+34	11.0	7.7 v
129	+34°	127	0	52	46.1	+34	39.0	8.3 v
130	+36°	148	0	55	32.2	+36	37.5	6.5 v
131	+37°	151	0	53	15.8	+37	15.3	7.0 v
132	+36°	154	0	57	55.1	+36	48.5	8.7 v
133	+36°	161	0	59	35.1	+36	37.3	7.9 v
134	+36°	164	1	00	1.6	+36	42.9	7.3 v
135	+36°	160	0	59	33.1	+36	16.8	8.0 v
136	+36°	174	1	01	30.5	+36	57.0	8.7 v
137	+37°	190	1	02	29.2	+37	0.5	7.0 v
138	+36°	182	1	04	20.7	+36	24.2	8.6 v
139	+36°	188	1	06	0.1	+36	40.2	8.8 v

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Nov. 27, 1911 (Cont)

I 37367

No.	Class	Int.	Remark
140	K0	63	
141	Q2	63	
142	K0	42	
143	Q	21	
144	Q3	42	
145	Q	84	
146	K0	42	
147	35	42	
148	Q5	63	
149	K	42	
150	G	42	
151	K1	1045	Barnard star.
152	K	21	
153	Q2	63	
154	F0	63	
155	Q3	63	
156	G5	21	
157	F	21	
158	F	21	
159	F8	21	
160	F0	42	
161	G	21	
162	G5	42	
163	F5	42	
164	Q5	42	
165	Q0	84	
165a	G	21	
166	G	21	

140	+35°	181	0	52	58.9	+35 52.7	7.1 v
141	+34°	160	0	52	20.5	+34 54.8	7.3 v
142	+35°	184	0	53	35.1	+35 12.7	7.8 v
143	+35°	186	0	54	25.4	+35 34.7	8.9 v
144	+35°	189	0	56	1.7	+35 45.3	8.0 v
145	+36°	185	0	55	27.5	+36 3.6	7.8 v
146	+36°	187	0	55	56.9	+36 26	8.2 v
147	+35°	213	1	1	27.6	+35 47.0	8.5 v
148	+35°	219	1	3	38.1	+35 38.2	7.8 v
149	+35°	221	1	4	36.5	+35 29.9	8.2 v
150	+35°	218	1	3	10.3	+35 9.2	8.2 v
151	+34°	198	1	1	37.6	+34 50.5	2.2 v
152	+34°	182	0	58	44.6	+34 47.5	7.7 v
153	+34°	183	0	58	46.2	+34 23.0	7.5 v
154	+34°	181	0	58	6.6	+34 44.1	7.5 v
155	+34°	171	0	56	58.3	+34 40.5	7.2 v
156	+34°	167	0	54	42.2	+34 49.3	8.1 v
157	+34°	166	0	54	24.0	+34 53.6	8.5 v
158	+34°	165	0	53	28.6	+34 35.7	8.3 v
159	+34°	164	0	53	25.4	+34 47.1	8.3 v
160	+34°	155	0	50	10.5	+34 22.8	9.0 v
161	+34°	153	0	49	54.9	+34 35.3	8.3 v
162	+34°	154	0	49	58.6	+34 12.1	7.9 v
163	+34°	152	0	49	13.8	+34 5.0	8.0 v
164	+34°	149	0	48	57.6	+34 37.0	8.0 v
165	+34°	148	0	48	18.3	+34 26.2	7.0 v
165a	+34°	138	0	45	52.6	+34 20.0	8.9 v
166	+33°	120	0	44	41.6	+33 51.0	8.0 v

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Nov. 27, 1911

I 37367

No.	Class	Int.	Remark
167	K0	63	
168	G5	42	
169	A2	42	
170	F8	42	
171	K0	105	
172	A5	21	
173	F	42	
174	A3	63	
175	A2	63	
176	F	63	Focus very poor
177	A2	42	
178	A?	10+5+	Burned out.
179	F	84	
180	A3	63	
181	A5	21	
182	F5	42	
183	F2	42	
184	F8	63	
185	K2	42	
186	A3	63	
187	F5	63	
188	K2	42	
189	A3	63	

June 3.'10

May 18, 1910 | G5 | 1

167	+33°	117	0	44	5.1	+33	5.7	7.0 v
168	+33°	124	0	45	26.9	+33	8.0	8.0 v
169	+33°	135	0	48	15.1	+33	5.7	8.4 v
170	+33°	138	0	49	39.1	+33	23.1	8.3 v
171	+33°	140	0	50	19.0	+33	11.0	6.2 v
172	+33°	161	0	57	11.3	+33	40.7	8.8 v
173	+33°	167	0	58	19.4	+33	32.5	8.3 v
174	+34°	194	1	1	14.0	+34	1.7	7.4 v
175	+33°	178	1	1	12.5	+33	9.6	7.0 v
176	+33°	181	1	1	56.4	+33	6.4	7.0 v
177	+33°	75	0	27	55.6	+33	39.0	7.5 v
178	+32°	101	0	29	8.2	+32	56.3	4.1 v
179	+32°	122	0	36	3.6	+32	31.0	6.8 v
180	+32°	124	0	36	35.4	+32	60.0	7.5 v
181	+32°	129	0	37	11.4	+32	53.1	8.5 v
182	+32°	138	0	41	6.8	+32	8.2	7.5 v
183	+32°	149	0	43	18.8	+32	44.5	8.0 v
184	+31°	129	0	43	35.3	+31	52.2	7.1 v
185	+32°	160	0	46	18.9	+32	6.4	7.3 v
186	+31°	150	0	51	13.7	+31	41.5	6.8 v
187	+31°	153	0	51	37.8	+31	43.6	7.3 v
188	+32°	184	0	56	42.9	+32	25.4	7.7 v
189	+32°	191	0	57	55.4	+32	12.9	7.8 v

Identified by A.M.C.
" A.D.N. 12-7-11

cards made out

190 +36°79 0 27.7 +36 57 8.7 Sketched by J.C.M. Dec. 9, '11
Same as no. 81 on I 37388

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Scale 10 used from here on for intensities. D.f.C.

Nov. 27, 1911

I 37352

Time 9:35

No.	Class	Int.	Remark
1	F0	4	
2	F5	2	
3	K0	2	
4	A2	2	
5	Ma	2	
6	K	2	
7	G5	1	near edge
8	A3	6	
9	A2	2	
10	A0	2	
11	A	2	
12	G5	2	
13	B9	5	
14	A0	2	
15	A3	3	
16	B9	3	
17	K2	3	
18	Ma	5	
19	F8	4	
20	G0	5	
21	K0	3	
22	A3	2	
23	F8	2	
24	G5	4	
25	K2	3	
26	K2	2	
27	K0	3	

1	+26° 4698	23	42	31.6	+26	52.8	7.1 V
2	+26° 4691	23	40	54.1	+26	54.9	7.8 V
3	+27° 4625	23	41	16.6	+27	33.5	7.5 V
4	+27° 46+7 (26')	23	39 (40)	9.1 (27.7)	+27	53.8 (24.9)	8.0 V
5	+27° 4619	23	39	35.7	+27	37.2	7.0 V
6	+27° 4617	23	39	9.1	+27	53.8	7.1 V
7	+28° 4627	23	36	44.1	+28	34.8	5.2 V
8	+28° 4649	23	42	21.1	+28	2.8	6.2 V
9	+28° 4646	23	41	58.7	+28	54.6	8.6 V
10	+28° 4655	23	45	13.5	+28	8.4	8.3 V
11	+28° 4662	23	46	19.1	+28	0.1	8.3 V
12	+27° 4642	23	47	36.5	+27	50.6	7.0 V
13	+28° 4666	23	47	35.6	+28	40.6	7.2 V
14	+28° 4670	23	48	54.0	+28	4.6	8.8 V
15	+28° 4678	23	51	0.1	+28	2.4	8.2 V
16	+26° 4714	23	49	39.3	+26	46.2	7.2 V
17	+25° 5042	23	48	1.6	+25	9.0	6.3 V
18	+24° 4865	23	50	23.0	+25 (4')	19.7	4.3 V
19	+26° 4727	23	53	1.0	+26	7.3	6.5 V
20	+26° 4734	23	54	36.3	+26	18.8	6.1 V
21	+27° 4664	23	54	10.8	+27	37.5	7.0 V
22	+27° 4667	23	55	15.7	+27	44.5	8.0 V
23	+27° 4669	23	55	26.0	+27	26.2	8.1 V
24	+26° 4744	23	57	34.0	+26	52.0	6.8 V
25	+25° 5068	23	57	28.7	+25	50.7	6.2 V
26	+27° 4674	23	58	35.2	+27	27.6	7.0 V
27	+27° 467[illegible] (6')	23	59	8.7	+27	44.8	7.2 V

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Nov. 27, 1911 (Cont)

I 373 52

No.	Class	Int.	Remark
28	Ko	4	
29	B8?	10	
30	A2	4	
31	Ma	2	
32	F2	2	
33	Fo	4	
34	F8	5	
35	F8	3	
36	A0	5	
37	F5	3	
38	K	3	Focus very poor
39	B8	6	
40	A0	6	
41	A0	1	
42	Ko	3	
43	G	2	Very poor
44	B9	3	
45	A3	4	
46	A5	4	
47	G5	3	
48	K	2	
49	Fo	3	
50	F5	2	
51	A	2	
52	F2	3	
53	G	2	
54	A0	2	
55	Fo	3	

28	+28°	4704	23	59	6.5	+28	13.9	7.5 ✓
29	+28°	4	0	0	55.4	+28	18.4	2.0 ✓
30	+27°	3	0	1	31.8	+27	26.2	7.0 ✓
31	+27°	7	0	2	57.8	+27	50.8	7.9 ✓
32	+27°	12	0	4	22.6	+27	37.2	7.7 ✓
33	+27°	13	0	4	31.5	+27	48.0	7.3 ✓
34	+26°	13	0	5	56.8	+26	10.4	6.5 ✓
35	+25°	18	0	6	39.2	+25	27.3	7.4 ✓
36	+26°	23	0	7	42.2	+26	28.0	6.5 ✓
37	+27°	25	0	7	49.5	+27	46.9	8.0 ✓
38	+29°	39	0	14	50.0	+29	34.5	8.0 ✓
39	+30°	42	0	12	51.9	+30	8.4	6.4 ✓
40	+30°	35	0	11	6.6	+30	43.4	6.0 ✓
41	+30°	33	0	10	26.8	+30	29.3	8.4 ✓
42	+30°	26	0	7	35.3	+30	43.8	6.5 ✓
43	+29°	14	0	3	53.3	+29	39.0	8.4 ✓
44	+29°	10	0	3	20.8	+29	52.9	8.0 ✓
45	+30°	3	0	0	43.2	+30	33.7	7.2 ✓
46	+30°	2	0	0	33.6	+30	35.4	6.8 ✓
47	+30°	1	0	0	8.3	+30°	51.3	6.9 ✓
48	+30°	5090	23	59	23.4	+30°	19.2	8.0 ✓
49	+29°	5059	23	57	44.3	+29	31.4	8.2 ✓
50	+29°	5057	23	57	24.8	+29	16.1	8.0 ✓
51	+28°	4708	23	59	34.1	+28	49.3	8.7 ✓
52	+29°	2	0	0	34.3	+29	3.2	7.7 ✓
53	+29°	5046	23	54	4.9	+29	55.7	7.8 ✓
54	+29°	5042	23	53	23.8	+29	35.6	8.4 ✓
55	+30°	5053	23	48	42.4	+30	15.8	7.0 ✓

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Nov. 27, 1911 (Court)
I 37352

No.	Class	Int.	Remark
56	Fo	2	
57	F2	4	
58	A2	3	
59	A	1	Partly superposed on 60
60	A	3	
61	A	2	
62	A	3	Near edge
63	A2	3	
64	K	2	
65	Bq	4	
66	Fo	2	
67	B5	5	
68	F8	6	
69	A2	4	
70	G	3	
71	Go	5	
72	K2	3	
73	Bq	5	
74	Ma	2	
75	A	2	
76	K5	4	
77	F5?	4	Near edge

Time 9:58

cent. = 128, 212

56	+29°	5020	23	46	32.7	+29	57.4	8.0 v
57	+31°	4989	23	45	51.0	+31	6.0	7.3 v
58	+30°	5028	23	41	32.6	+30	54.5	7.7 v
59	+32°	4704	23	38	41.9	+32	15.0	8.3 v
60	+32°	4703	23	38	36.0	+32	28.8	7.5 v
61	+32°	4698	23	37	51.9	+32	58.1	8.2 v
62	+33°	4773	23	40	19.3	+33	43.7	7.5 v
63	+32°	4731	23	47	0.2	+32	47.3	7.9 v
64	+32°	4735	23	48	2.5	+32	4.7	7.5 v
65	+32°	4737	23	48	46.3	+32	40.1	7.0 v
66	+31°	5007	23	50	41.0	+31	12.7	8.2 v
67	+31°	5082	23	51	26.9	+31	33.3	6.2 v
68	+32°	4747	23	52	7.9	+32	55.6	5.8 v
69	+34°	5039	23	50	57.9	+34	11.2	6.6 v
70	+33°	4827	23	57	13.8	+33	27.4	7.0 v
71	+33°	4828	23	57	17.2	+33	51.6	6.3 v
72	+32°	11	0	3	3.7	+32°	19.5	7.3 v
73	+32°	21	0	6	32.3	+32	24.4	6.5 v
74	+31°	8	0	3	17.4	+31	28.5	8.0 v
75	+31°	12	0	4	59.3	+31	23.2	8.4 v
76	+32°	46	0	13	11.0	+32	6.3	6.0 v
77	+32°	48	0	13	19.3	+32	10.4	7.0 v
78								
79								
80								
81								
82								

Cards made out

Ident by J. C. M. Dec. 8, 1911.
Checked by A. D. D. Dec. 16, 1911.

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Dec 3, 1911

June 11.35

I 37356

No.	Class	Int.	Remarks
1	K2	3	On edge
2	B8	4	"
3	A	5	"
4	B8?	4	"
5	F5	6	
6	K5	7	
7	K0	6	
8	A	8	
9	F5	5	
10	A0	2n	
11	K2	1	On edge
12	A	3	"
13	K0	6	
14	A0	3	
15	A	2n	
16	A	2n	
17	F5	3	Near edge
18	A0	3	
19	B8	5	
20	A0	2n	
21	K	2n	
22	A	3n	
23	K	2n	
24	A	1	
25	A3	2n	
26	A2n	2n	
27	F5	6	
28	A0	1	

1	+49°	724	2	28	23.9	+49	51.2	6.6	✓ ✓
2	+49°	719	2	27	48.0	+49	36.2	7.2	✓ ✓
3	+49°	696	2	24	57.3	+49	25.5	7.0	✓ ✓
4	+49°	683	2	22	23.5 25.6	+49	34.9 33.9	7.0 7.8	✓ a.g.c.
5	+49°	666	2	18	10.6	+49	55.0	6.5	✓ ✓
6	+49°	656	2	15	59.4	+49	36.9	4.9	✓ ✓
7	+49°	649	2	14	48.2	+49	20.5	5.8	✓ ✓
8	+49°	640	2	11	24.1	+49	29.1	6.2	✓ ✓
9	+50°	522	2	10	33.0	+50	16.8	7.0	✓ ✓
	+50°	530	2	11	49.4	+50	37.3	8.3	✓
10	+50°	455	1	58	13.2	+50	24.3	7.9	✓
11	+49°	628	2	9	40.8	+49	28.2	7.2	✓ ✓
12	+49°	614	2	7	7.8	+49	8.6	7.5	✓ ✓
13	+50°	481	2	3	59.4	+50	23.4	6.1	✓ ✓
14	+50°	466	2	1	10.5	+50	22.0	7.2	✓ ✓
15	+50°	459	1	59	40.5	+50	23.1	8.1	✓ ✓
16	+50°	455	1	58	13.2	+50	24.3	7.9	✓ ✓
17	+49°	544	1	56	4.2	+49	56.5	7.0	✓ ✓
18	+50°	430	1	54	3.7	+50	57.2	7.6	✓ ✓
19	+51°	483	1	54	45.5	+51	15.8	6.7	✓ ✓
20	+51°	452	1	49	3.6	+51	10.7	8.0	✓ ✓
21	+51°	444	1	47	29.1	+51	46.5	7.7	✓ ✓
22	+51°	441	1	47	15.9	+51	36.7	8.6	✓ ✓
23	+50°	394	1	46	26.0	+50	58.3	7.3	✓ ✓
24	+51°	435	1	45	47.0	+51	31.4	8.7	✓ ✓
25	+51°	433	1	44	59.4	+51	56.2	8.3	✓ ✓
26	+51°	420	1	42	42.8	+51	38.3	8.5	✓ ✓
27	+51°	416	1	41	43.5	+51	12.6	6.3	✓ ✓
28	+51°	418	1	42	21.5	+51	5.0	8.6	✓ ✓

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Dec. 3, 1911 (cont)

I 3738 ~~57~~ 56

No.	Class	Int.	Remarks
29	Q2	5	
30	Q	6	Near edge
31	Q2	5	
32	Q2	3	
33	Q	1	
34	Q2	2	
35	F5	2	
36	K2	2	
37	B5	2	Hβ not clearly seen, may be light. Hγ faint.
38	B8	2	
39	A0p	2	4128-31 strong.
40	F5	3	
41	Q2	2	
42	Q3	5	
43	Q	1	
44	Q2	1	
45	B5	5	
46	B8	3	
47	G5	2	
48	F0	3	
49	K2	2	
50	F8	1	
51	F2	3	
52	K5	3	
53	Q0	2	
54	K G5	5	
55	Q0	3	
56	Q0	2	

29	+50° 381	1	43	36.1	+50	45.5	6.6	✓	✓
30	+50° 379	1	42	57.9	+50	4.7	6.1	✓	✓
31	+51° 588	2	23	24.3	+51	39.7	6.5	✓	✓
32	+52° 609	2	30	19.3	+52	10.2	7.5	✓	✓
33	+52° 602	2	27	47.9	+52	10.9	8.2	✓	✓
34	+52° 592	2	22	0.6	+52	11.5	8.5	✓	✓
35	+52° 590	2	20	55.7	+52	32.2	7.5	✓	✓
36	+52° 584	2	18	33.3	+52	25.3	7.5	✓	✓
37	+51° 579	2	18	9.7	+51	53.5	8.0	✓	✓
38	+52° 581	2	17	27.8	+52	50.0	8.5	✓	✓
39	+52° 580	2	16	0.8	+52	43.0	9.0	✓	✓
40	+52° 574	2	13	50.2	+52	1.4	8.0	✓	✓
41	+51° 554	2	13	16.9	+51	53.2	8.5	✓	✓
42	+51° 556	2	13	35.3	+51	25.4	6.5	✓	✓
43	+52° 571	2	11	39.5	+52	2.5	8.8	✓	✓
44	+52° 568	2	11	6.0	+52	7.3	9.0	✓	✓
45	+51° 548	2	9	54.2	+51	52.5	7.0	✓	✓
46	+51° 538	2	8	20.9	+51	6.6	8.2	✓	✓
47	+50° 500	2	7	12.6	+50	51.2	7.5	✓	✓
48	+51° 530	2	6	29.8	+51	11.4	8.2	✓	✓
49	+51° 527	2	5	49.2	+51	49.5	6.8	✓	✓
50	+51° 533	2	6	41.8	+51	53.2	8.5	✓	✓
51	+52 551	2	6	55.1	+52	2.9	7.9	✓	✓
52	+52° 541	2	3	53.0	+52	22.2	6.7	✓	✓
53	+52° 528	2	1	0.4	+52	31.5	8.5	✓	✓
54	+53° 460	2	0	24.6	+53	10.0	6.0	✓	✓
55	+52° 492	½	52	50.8	+52	55.7	7.8	✓	✓
56	+52° 496	1	53	8.2	+52	22.6	8.4	✓	✓

Cards made out

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Dec 3, 1911 (Cont.)

I 37356

No.	Class	Ont.	Remark
57	Fs	2	
58	K	1	
59	A	2	
60	A0	5	
61	Fs	1	
62	F0	2	
63	B5	3	
64	K	2	
65	A0	3	
66	B8	3	
67	B8	3	Nov edge. Focus poor
68	A	4	"
69	A3	13	ν
70	B5	2	
71	F5?	2	
72	F8	2	Partly superposed
73	F8	2	Partly superposed
74	A	2	
75	A	2	
76	F5	5	
77	K	2	
78	A	2	
79	A2	2	
80	K0	3	
81	B8	3	
82	A3	2	
83	B8	2	
84	F0	3	
85	B8	3	

57	+51° 468	1	52	30.9	+51	57.2	8.3	V	V
58	+52° 489	1	51	37.1	+52	49.1	8.0	V	V
59	+52° 486	1	50	44.9	+52	32.7	8.4	V	V
60	+52° 468	1	47	12.7	+52	36.4	7.5	V	V
61	+52° 466	1	46	45.8	+52	53.7	8.5	V	V
62	~~+53° 420 Approx (1855)~~	1	46	~~52~~ 17.3	+53	~~45~~ 36.9	8.5	V	Roughly charted in R.A.
63	+53° 419	1	45	30.8	+53	28.4	7.0	V	V
64	+53° 416	1	45	13.3	+53	10.8	8.2	V	V
65	+53° 405	1	43	2.9	+53	10.6	8.4	V	V
66	+53° 401	1	41	37.3	+53	19.6	8.4	V	V
67	+53° 388	1	38	43.6	+53	9.9	8.0	V	V
68	+53° 386	1	38	22.7	+53	16.7	7.2	V	V
69	+53° 541	2	22	48.5	+53	54.8	7.5	V	V
70	+53° 532	2	20	0.4	+53	12.1	8.0	V	V
71	+53° 531	2	19	16.6	+53	13.1	8.5	V	V
72	+53° 527	2	16	31.1	+53	29.3	8.5	V	Superposed on 73
73	+53° 526	2	16	28.5	+53	38.6	8.2	V	Superposed on 72
74	+53° 521	2	14	26.7	+53	7.1	8.2	V	V
75	+53° 519	2	14	17.5	+53	32.7	8.2	V	V
76	+53° 507	2	11	16.1	+53	50.8	6.5	V	V
77	+53° 497	2	8	31.8	+53	36.7	7.5	V	V
78	+53° 494	2	8	4.1	+53	47.6	8.4	V	V
79	+54° ~~502~~ 503	2	~~7~~ 8	~~14.9~~ 48.3	+54	~~12.3~~ 10.2	8.3	V	V
80	+54° 497	2	5	14.5	+54	24.6	6.9	V	V
81	+53° 486	2	5	3.1	+53	51.1	8.5	V	V
82	+53° 474	2	3	26.5	+53	31.3	8.1	V	V
83	+53° 456	1	59	35.7	+53	38.3	8.9	V	V
84	+53° 451	1	57	3.1	+53	36.4	8.0	V	V
85	+54° 457	1	56	8.6	+54	13.9	8.9	V	V

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Dec. 3, 1911 (Cont.)

I 37356

No.	Class	Int.	Remark
86	B8	3	
87	B8	2	
88	B8	8	
89	B8	2	Hβ badly seen, perhaps another star superposed
90	A5	3	
91	B5	3	Hβ not clearly seen
92	F0	2	
93	A2	5	
94	B3	7	
95	A3	2	
96	A0	4	
97	A	2	
98	F	2	
99	A0	2	
100	A3	4	
101	K0	2	
102	A2	3	Hydrogen lines very narrow. Hε line seen cannot identify
103	F	1	
104	A	3	Lines rather narrow
105	A	2	
106	A	3	Lines narrow
107	A	3	
108	A	3	
109	B2	5	
110	B8	4	Lines ill defined. Another star might be superposed
111	A2	5	Lines narrow
112	A	2	
113	K5	5	

86	+54° 452	1	55	0.6	+54	9.8	8.5	✓	✓
87	+53° 440	1	53	47.7	+53	59.7	7.9	✓	✓
88	+53° 439	1	52	41.6	+53	47.4	5.0	✓	✓
	+55° 464	1	49	32.2	+55	4.9	8.2	✓	
89	~~+55° 466~~	1	49	~~54.6~~	+55	~~0.3~~	~~7.9~~		
90	+54° 429	1	49	11.9	+54	52.3	7.6	✓	✓
91	+54° ~~415~~ 416	1 2	46	~~12.4~~ 10.2	+54	~~45.9~~ 52.0	~~8.6~~ 8.0	✓	✓
92	+54° 417	1	46	34.3	+54	56.7	8.2	✓	✓
93	+54° 408	1	44	14.3	+54	52.9	6.6	✓	✓
94	+54° 396	1	42	30.3	+54	25.7	5.7	✓	✓
95	+54° 394	1	42	12.7	+54	13.2	8.0	✓	✓
96	+54° 393	1	42	0.1	+54	11.1	7.4	✓	✓
97	+54° 383	1	39	45.1	+54	25.1	8.9	✓	✓
98	+54° 380	1	39	31.9	+54	12.5	8.2	✓	✓
99	+54° 379	1	38	59.4	+54	58.3	8.0	✓	✓
100	+55° 391	1	34	24.4	+55	8.8	7.1	✓	✓
101	+54° 525	2	10	59.3	+54	44.4	7.0	✓	✓
102	+55° 588	2	10	39.7	+55	14.3	6.8	✓	✓
103	+54° 511	2	8	30.7	+54	52.0	8.1	✓	✓
104	+54° 500	2	5	31.6	+54	54.8	7.8	✓	✓
105	+54° 494	2	4	39.4	+54	38.1	7.9	✓	✓
106	+55° 552	2	5	~~2.5~~ 5.6	+55	~~4.0~~ 6.8	~~8.0~~ 8.0	✓	✓
107	+55° 622	2	17	41.3	+55	56.0	8.4	✓	✓
108	+56° 630	2	17	51.2	+56	37.1	8.2	✓	✓
109	+55° 612	2	15	4.4	+55	56.4	6.3	✓	✓
110	+56° ~~591~~ 593	2	12	~~27.9~~ 45.6	+56	~~34.5~~ 43.3	~~7.5~~ 7.0	✓	✓
111	+56° 568	2	11	42.2	+56	34.7	6.7	✓	✓
112	+56° 543	2	9	44.9	+56	38.8	8.0	✓	✓
113	+56° 486	2	7	54.2	+56	50.7	6.5	✓	✓

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Dec 9, 1911 (Cont)

T 37356

No.	Class	Int.	Remark
114	A	2	
115	K0	6	
116	A2	3	
117	B3	5	Gaussk satellite due to superposition of other stars
118	G0	4	
119	B3	6	
120	K0	3	
121	F0	5	
122	F	2	
123	B5	4	lines narrow
124	A	2	
125	A	2	
126	A	5	
127	K	2	
128	A	3	
129	A2	5	
130	A2	6	
131	B8	3	
132	cont.	3	No lines seen.
133	A2	3	
134	A	3	Another plate partly superposed
135	A0	3	
136	K	2	
137	A	2	
138	F	3	
139	A	3	
140	F	4	
141	F	2	

114	+56° 480	2	7	19.1	+56	41.4	8.2	✓	✓
115	+57° 535	2	7	48.2	+57	13.4	6.2	✓	✓
116	+57° 533	2	7	21.8	+57	21.4	8.0	✓	✓
117	+56° ~~470~~ 471	2	6	~~44.3~~ 45.7	+56	~~21.1~~ 22.7	~~7.0~~ 6.6	✓	b 470
118	+56° 449	2	2	48.5	+56	31.7	7.0	✓	✓
119	+56° 438	2	1	25.5	+56	57.5	6.5	✓	✓
120	+55° 530	2	0	28.7	+55	36.3	7.2	✓	✓
121	+54° 453	1	55	17.9	+54	55.7	6.9	✓	✓
122	+55° 515	1	58	34.8	+55	46.9	8.5	✓	✓
123	+56° 424	1	56	21.5	+56	36.6	8.0	✓	✓
124	+56° 416	1	54	48.4	+56	29.4	8.7	✓	✓
125	+56° 409	1	52	54.5	+56	36.3	8.6	✓	✓
126	+56° 388	1	45	~~38.6~~ 39.6	+56	~~22.7~~ 18.6	~~4~~ 7.8	✓	✓
127	+55° 437	1	46	17.4	+55	51.9	7.0	✓	✓
128	+56° 372	1	42	59.6	+56	34.0	8.0	✓	✓
129	+56° 334	1	35	15.6	+56	21.5	6.5	✓	✓
130	+56° 330	1	34	45.2	+56	48.3	6.4	✓	✓
131	+56° 621	2	16	2.3	+56	34.6	7.0	✓	✓
132	+57° 568	2	16	25.1	+57	1.8	7.0	✓	✓
133	+57° 566	2	15	3.1	+57	31.4	8.1	✓	✓
134	+56° 616	2	15	33.0	+56	50.8	8.5	✓	✓
135	+57° 554	2	13	35.1	+57	11.1	8.7	✓	✓
136	+57° 553	2	12	57.0	+57	26.3	8.0	✓	✓
137	+58° ~~397~~ 457	2	12	54.8	+58	~~9.7~~ 7.3	~~6~~ 8.2	✓	✓
138	+57° 531	2	6	54.1	+57	57.6	8.2	✓	✓
139	+57° 522	2	4	47.3	+57	47.8	7.5	✓	✓
140	+57° 519	2	3	31.1	+57	52.7	6.6	✓	✓
141	+58° 397	2	2	54.8	+58	7.3	8.2	✓	✓

Cards made out

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Dec 3, 1911 (Cont)

I 37 356

No	Class	Int.	Remark
142	A2	5	Lines narrow

Trace 12:15

This northern part so poor ~~it~~ has been omitted. Can be used if really necessary.

The stars in the cluster on this plate are very difficult. They all appear to have narrow lines and some of them appear nearly continuous. This should be given as a Remark. The hydrogen lines should be taken with larger dispersion.

143	B?	4	Lines very faint. Other stars superposed ?					
144	F?	4	Lines narrow.					
145	B?	B3	Too much superposed on 117. Lines barely seen.					

Card made and ✓

142	+57°	494	1	58	36.3	+57	44.1	6.5 ✓✓

Identified by J.C.M. Dec. 11 '11
Checked J.D.M.

143	+56°	52~~X~~2	2	8.9 ~~4.8~~	+56	27.7	6.8 ~~7.4~~	
144	+56°	530	2	9.1	+56	39.8	6.7	^
145	+56°	470	2	6.7	+56	21.1	7.0	^

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Dec 18. 1911

I 37404

Time 1:36

No.	Class	Dist.	Remarks
1	G	3	
2	A	2	E
3	Bg	6	On Extreme edge
4	G5	2	
5	Fo	7	
6	G5	4	
7	Ko	3	Partly superposed on 6
8	Fo	3	
9	A	4	
10	Ao	4	
11	Ma	4	
12	F8	2	
13	Ko	2	
14	Ko	5	
15	F5	6	
16	G5	8	
17	Ao	2	
18	Ao	5	
19	A3	3	
20	K5	3	
21	F8	7	Myth Comp. Looks up
22	F8	2	
23	A2	2	
24	Ko	5	
25	Fo	6	
26	G	2	Partly superposed on 25
27	A	2	

Cards made out

1	+29° 461	2	37.0	+29	43.4	8.6	V V
2	+29° 468	2	38.4	+29	27.5	8.8	V V
3	+29° 471	2	39.1	+29	4.9	7.4	V V
4	+29° 473	2	39.6	+29	44.5	8.3	V V
5	+29° 481	2	41.4	+29	54.9	7.1	V V
6	+29° 484	2	42.4	+29	41.1	7.7	V V
7	+29° 485	2	42.4	+29	55.4	7.7	V V
8	+29° 488	2	43.4	+29	35.8	8.3	V V
9	+29° 492	2	43.7	+29	35.1	8.2	V V
10	+29° 489	2	43.5	+29	56.0	8.0	V V
11	+30° 464	2	47.0	+30	27.0	7.0	V V
12	+29° 500	2	46.9	+29	53.2	8.6	V V
13	+30° 466	2	47.8	+30	17.6	8.0	V V
14	+30° 469	2	49.3	+30	54.3	7.8	V V
15	+30° 477	2	51.5	+30	32.1	7.5	V V
16	+30° 474	2	51.2	+30	0.7	8.3	V V
17	+30° 482	2	55.8	+30	43.8	8.7	V V
18	+31° 531	2	55.5	+31	22.1	8.0	V V
19	+31° 533	2	56.3	+31	58.0	9.0	V V
20	+32° 550	2	54.4	+32	34.4	8.0	V V
21	+31° 526	2	52.7	+31	50.0	6.5	V V
22	+31° 520	2	52.2	+31	57.6	8.8	V V
23	+30° 438	2	36.1	+30	51.1	8.7	V V
24	+31° 472	2	35.3	+31	45.2	7.5	V V
25	+32° 490	2	34.0	+32	17.3	7.4	V V
26	+32° 492	2	34.1	+32	14.5	8.0	V V
27	+32° 496	2	35.5	+32	40.5	8.9	V V

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Dec. 18, 1911 (Cont)

I 3740 4

No.	Class	Int.	Remark
28	F8	1	
29	K	2	
30	B8	6	
31	G0	3	
32	F5	2	
33	F8	3	
34	K0	7	
35	A2	2	
36	F5	7	
37	A2	4	
38	F5	3	
39	F0	2	
40	B9	10	Burnt out
41	K0	5	
42	B9	3	
43	A2	2	
44	A0	4	
45	G0	2	
46	F5	2	
47	G0	2	
48	A5	4	
49	A0	3	
50	G0	2	
51	A2	5	
52	A5	3	
53	A0	5	
54	A0	4	
55	K2	3	

28	+32° 498	2	36.4	+32	7.6	8.9	V	V
29	+31° 477	2	37.6	+31	23.1	8.4	V	V
30	+30° 444	2	38.4	+30	47.1	7.9	V	V
31	+30° 445	2	39.1	+30	27.3	7.9	V	V
32	+30° 446	2	39.3	+30	23.4	8.4	V	V
33	+30° 447	2	39.6	+30	35.0	8.3	V	V
34	+30° 448	2	40.0	+30	31.2	7.2	V	V
35	+30° 449	2	41.0	+30	25.5	8.5	V	V
36	+31° 497	2	44.7	+31	2.6	7.0	V	V
37	+31° 499	2	45.2	+31	5.8	8.1	V	V
38	+30° 465	2	47.1	+30	59.5	7.9	V	V
39	+31° 507	2	47.8	+31	20.7	8.5	V	V
40	+31° 509	2	48.5	+31	20.3	4.8	V	V
41	+31° 512	2	49.5	+31	53.5	6.6	V	V
42	+32° 538	2	49.9	+32	31.6	8.5	V	V
43	+32° 541	2	50.6	+32	19.4	8.8	V	V
44	+33° 553	2	50.7	+33	14.8	8.3	V	V
45	+33° 556	2	51.5	+33	47.7	9.0	V	V
46	+33° 558	2	52.3	+33	51.1	8.7	V	V
47	+33° 562	2	54.1	+33	19.9	8.3	V	V
48	+33° 565	2	54.9	+33	53.4	7.7	V	V
49	+33° 566	2	55.3	+33	33.4	8.3	V	V
50	+34° 567	2	56.0	+34	19.1	8.2	V	V
51	+33° 494	2	34.5	+33	32.6	8.1	V	V
52	+33° 499	2	35.8	+33	48.2	8.8	V	V
53	+33° 501	2	36.2	+33	42.7	8.5	V	V
54	+33° 502	2	36.5	+33	42.5	8.5	V	V
55	+33° 503	2	37.0	+33	49.4	7.8	V	V

Cards made out

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Dec 18, 1911 (cont)
I 37404

No.	Class	Dist.	Remark
56	Q3	3	
57	Q0	4	
58	K0	2	
59	Q0	4	
60	Q_	2	
61	Q0	8	
62	K5	1	
63	Q0	3	
64	Q0	4	
65	Q3	4	
66	F0	2	
67	Q2	6	
68	Q0	3	
69	B9	3	
70	F0	4	
71	K2	5	
72	K5	9	
73	F	1	
74	K0	2	
75	K5	2	
76	K0	2	
77	F5	2	
78	F5	3	
79	K	2	
80	Q0	5	
81	F8	2	
82	Ma	2	
83	K0	8	

Cards made out

56	+33° 512	2	38.7	+33	1.4	8.5	✓	v	
57	+32° 508	2	40.3	+32	14.4	7.5	✓	v	
58	+32° 507	2	40.3	+32	34.8	7.8	v	v	
59	+32° 511	2	41.6	+32	14.2	8.2	✓	v	
60	+31° 483	2	40.7	+31	29.8	8.6	✓	v	
61	+31° 490	2	41.7	+31	22.4	6.5	✓	v	
62	+31° 493	2	42.2	+31	46.3	8.0	✓	v	
63	+32° 517	2	43.2	+32	8.5	8.1	✓	v	
64	+32° 522	2	44.9	+32	18.7	7.5	✓	v	
65	+31° 500	2	45.4	+31	43.9	8.3	✓	v	
66	+32° 535	2	48.8	+32	8.6	8.3	✓	v	
67	+33° 521	2	40.6	+33	19.7	7.1	✓	v	
68	+33° 526	2	41.2	+33	12.8	8.6	✓	v	
69	+33° 519	2	40.5	+33	54.6	8.3	✓	v	
70	+34° 520	2	40.8	+34	33.8	7.8	✓	v	+33° 517 2 40.8 34 42.5 8.3 Superposed
71	+34° 524	2	41.9	+34	47.5	7.0	✓	v	
72	+34° 527	2	42.6	+34	27.7	4.2	✓	v	
73	+34° 530	2	43.5	+34	52.1	8.9	✓	v	
74	+35° 583	2	44.0	+35	2.8	8.2	✓	v	
75	+35° 586	2	45.1	+35	27.2	8.5	✓	v	
76	+35° 588	2	46.5	+35	19.0	8.3	✓	v	
77	+34° 541	2	46.7	+34	58.9	8.8	✓	v	
78	+34° 542	2	46.8	+34	56.1	8.5	✓	v	
79	+34° 539	2	46.6	+34	21.7	8.4	✓	v	
80	+34° 540	2	46.6	+34	10.6	8.2	✓	v	
81	+33° 545	2	47.6	+33	51.3	9.0	✓	v	
82	+33° 547	2	49.1	+33	39.2	8.4	✓	v	
83	+34° 550	2	50.1	+34	35.7	5.4	✓	v	

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Dec. K. 1911 (Cont)

I 37404

No.	Class	Int.	Remarks
84	Ko	2	
85	Js	3	
86	Jo	4	
87	K	1	
88	K2	3	
89	K	5	
90	Q2	8	
91	B5	6	
92	Q	2	
93	Y	2	
94	Q	3	
95	Q	2	
96	Ko	3	
97	Js	5	
98	Y5	6	
99	J2	7	
100	Qo	3	
101	K	2	
102	J2	3	
103	K	2	
104	Jo	5	
105	Q2	3	
106	Q	4	
107	Q5	2	
108	Q2	4	
109	B8	10	Ruined. sect.
110	Q	2	
111	Bq	5	Poor focus

84	+34° 552	2	50.5	+34	45.8	8.0	✓ ✓
85	+34° 557	2	51.3	+34	35.2	8.3	✓ ✓
86	+35° 602	2	51.3	+35	48.5	8.0	✓ ✓
87	+35° 605	2	52.0	+35	26.6	8.3	✓ ✓
88	+35° 607	2	52.2	+35	33.5	7.0	✓ ✓
89	+35° 616	2	54.5	+35	52.2	7.1	✓ ✓
90	+36° 628	2	56.5	+36	13.4	6.5	✓ ✓
91	+34° 504	2	35.3	+34	30.5	7.3	✓ ✓
92	+34° 499	2	34.4	+34	48.6	8.9	✓ ✓
93	+35° 544	2	34.3	+35	20.4	8.3	✓ ✓
94	+35° 536	2	32.7	+35	12.4	9.1	✓ ✓
95	+35° 546	2	35.3	+35	37.6	9.1	✓ ✓
96	+34° 510	2	37.2	+34	49.9	7.2	✓ ✓
97	+35° 550	2	37.2	+35	39.4	7.9	✓ ✓
98	+35° 553	2	38.0	+35	22.8	6.8	✓ ✓
99	+34° 513	2	38.2	+34	56.6	6.5	✓ ✓
100	+35° 554	2	38.2	+35	57.1	8.0	✓ ✓
101	+35° 564	2	39.8	+35	36.9	8.5	✓ ✓
102	+35° 567	2	40.2	+35	15.9	7.7	✓ ✓
103	+35° 571	2	41.5	+35	43.1	8.5	✓ ✓
104	+35° 576	2	42.3	+35	41.9	8.0	✓ ✓
105	+35° 582	2	43.8	+35	52.2	8.2	✓ ✓
106	+36° 596	2	46.0	+36	8.2	8.3	✓ ✓
107	+36° 601	2	46.9	+36	22.4	8.6	✓ ✓
108	+37° 673	2	50.4	+37	17.8	8.1	✓ ✓
109	+37° 675	2	51.0	+37	34.0	7.0	✓ ✓
110	+37° 688	2	53.6	+37	22.0	8.5	✓ ✓
111	+37° 696	2	55.0	+37	31.8	7.0	✓ ✓

Cards made out

Spots in Dec. Cat. add on mean. Right Ascensions corrected for Dec. Class - Correct on Dec. Class - Correct on Dec. class - subtract 2 secs. with chart 1 21781 I 21814

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Dec. 18, 1911 (cont.)
I 37404

No.	Class	Int.	Remark
112	A	5	
113	M-	10	Burned out
114	A3	7	
115	K0	4	
116	B9	4	
117	K0	5	
118	K	2	
119	A0	3	
120	A0	5	
121	A	3	
122	F0	2	
123	B9	4	
124	K0	5	
125	A	2	
126	G5	2	
127	F5	7	
128	F0	3	
129	G0	5	
130	K3	2	
131	F5	2	
132	F8	2	
133	K0	4	
134	F	3	
135	G5	3	
136	G5	3	
137	F8	3	
138	F5	2	
139	A0	3	

112	+37° 692	2	54.3	+37	50.2	7.4°	V	V
113	+38° 630	2	55.9	+38	16.8	var.	V	V
114	+38° 617	2	52.7	+38	19.8	6.8	V	V
115	+37° 671	2	49.7	+37	49.0	7.6	V	V
116	+38° 601	2	49.6	+38	12.5	8.4	V	V
117	+38° 599	2	48.9	+38	1.7	6.8	V	V
118	+37° 608	2	34.4	+37	32.9	8.1	V	V
119	+37° 613	2	35.2	+37	31.9	8.3	V	V
120	+37° 619	2	36.3	+37	27.8	7.5	V	V
121	+37° 623	2	36.9	+37	54.3	8.8	V	V
122	+37° 627	2	37.4	+37	46.8	8.9	V	V
123	+37° 632	2	38.1	+37	6.4	8.3	V	V
124	+37° 634	2	38.4	+37	12.2	7.0	V	V
125	+36° 556	2	38.6	+36	52.2	9.0	V	V
126	+37° 640	2	39.9	+37	3.4	8.3	V	V
127	+36° 566	2	40.4	+36	42.5	6.5	V	V
128	+36° 567	2	40.6	+36	11.6	8.0	V	V
129	+36° 569	2	41.6	+36	21.3	6.5	V	V
130	+36° 574	2	42.2	+36	30.7	8.6	V	V
131	+36° 577	2	42.8	+36	50.1	8.5	V	V
132	+36° 581	2	43.1	+36	41.7	9.0	V	V
133	+36° 582	2	43.2	+36	29.3	7.0	V	V
134	+36° 585	2	43.7	+36	51.1	8.4	V	V
135	+37° 659	2	45.5	+37	9.0	7.8	V	V
136	+37° 660	2	46.3	+37	24.7	8.3	V	V
137	+37° 662	2	46.9	+37	59.8	8.2	V	V
138	+38° 590	2	47.5	+38	6.9	8.7	V	V
139	+38° 594	2	47.9	+38	28.8	8.0	V	V

Carder made out

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Dec. 18, 1911 (Cont.)
I 37404

No.	Class	Int.	Remark
140	Ao	3	
141	Fo	2	
142	Ao	10	Burned out.
143	A	2	Extreme Edge
144	Fo	10	
145	F2	7	
146	F8	8	
147	A	4	

June 2, 13

Plate
Wednesday
March 11, 1914

4.25	✓ 148	3		K5
	✓ 149	1		Ko
	✓ 150	2		K5
	✓ 151	1		K5
	✓ 152	2		K5
	✓ 153	3		Ao
	✓ 154	2		Go
	✓ 155	1		G5
	✓ 156	1		Ko
	✓ 157	2		Ko
	✓ 158	2		Ko
	✓ 159	2		Ko
	✓ 160	2		Go
	✓ 161	2		Ko
	✓ 162	3		F5
4.28	✓ 163	2		Ko

Lent B 129, 202

cards made out

140	+38°	598	2	48.7	+38	27.7	8.0	VV
141	+38°	600	2	49.2	+38	54.3	8.5	V
142	+39°	681	2	49.5	+39	4.5	5.1	VV
143	+39°	687	2	51.6	+39	51.2	7.3	V
144	+37°	646	2	41.4	+37	43.2	4.8	V
145	+37°	655	2	44.6	+37	45.3	6.0	V
146	+39°	610	2	33.1	+39	34.0	4.9	V
	+39°	612	2	33.4	+39	38.5	8.0	V
147	+39°	611	2	33.3	+39	38.1	8.7	V

Wm. Campbell
Please compare with plate I 37404 (2.7781) and see if it is not the brighter star of the one I examined with the lantern and superpose.

Identified by J. C. M. Dec. 27 '11.
Checked L. D. W.

Too close color separated in spectrum. Assume both class A. J. C.

148	+36.5°	596	2	48.6	+36.5	10.2	8.0	✓
149	+36.5°	610	2	53.1	+36.5	0.9	9.0	✓
150	+37°	703	2	56.9	+37	2.4	8.0	✓
151	+37°	702	2	56.8	+37	12.6	8.1	✓
152	+37°	705	2	58.2	+37	15.4	8.0	✓
153	+38°	634	2	57.3	+38	3.1	8.5	✓
154	+37°	604	2	33.3	+37	59.1	8.1	✓
155	+37°	606	2	33.8	+37	48.8	9.0	✓
156	+38°	542	2	32.9	+38	40.3	8.5	✓
157	+38°	551	2	37.7	+38	29.6	8.5	✓
158	+38°	552	2	37.7	+38	43.2	8.6	✓
159	+38°	557	2	38.7	+38	54.2	8.7	✓
160	+37°	635	2	38.5	+37	49.3	8.2	✓
161	+39°	646	2	40.7	+39	18.9	8.4	✓
162	+38°	574	2	42.6	+38	16.3	8.6	✓
163	+38°	584	2	45.7	+38	50.3	8.8	✓

Identified on cards by J.C.M. April 29, 1914 Identification compared by S.R.B. April 29, 1914

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Dec 18, 1911

Time 2:15

I 37405

No.	Class	Int.	Remark
1	A5	5	
2	A3	3	
3	A2	4	
4	K2	5	
5	a	10	Burned out
6	F8	6	
7	Bg	3	
8	F5	3	
9	Ko	3	
10	Ma	3	
11	Go	4	
12	G5	3	
13	A2	2	
14	A	2	
15	A5	2	
16	A	2	
17	F8	4	
18	Ko	5	
19	G5	2	
20	Go	3	
21	G5	5	
22	Ko	3	
23	G5	2	
24	Fo	8	
25	Ko	7	
26	Go	4	
27	Ao	3	

1	+29° 522	2	58.1	+29	58.4	7.5	✓✓
2	+29° 531	3 2	1.5	+29	6.4	8.8	✓✓
3	+29° 534	3	3.2	+29	16.8	8.0	✓✓
4	+30° 505	3	4.4	+30	31.8	7.2	✓✓
5	+30° 512	3	6.5	+30	1.0	5.8	✓✓
6	+30° 520	3	8.8	+30	35.5	6.5	✓✓
7	+30° 524	3	9.5	+30	29.4	8.2	✓✓
8	+31° 585	3	12.9	+31	7.8	7.8	✓✓
9	+30° 532	3	13.4	+30	53.4	7.5	✓ +31°87 3 13.4 +31° 4.8 mag. 87 superposed ✓
10	+31° 588	3	13.6	+31	43.0	7.6	✓✓
11	+31° 534	2	56.6	+31	31.4	7.5	✓✓
12	+31° 536	2	56.9	+31	27.6	7.5	✓✓
13	+31° 540	2	57.9	+31	26.9	8.9	✓✓
14	+31° 542	2	58.6	+31	12.8	9.0	✓✓
15	+30° ~~549~~ 494	3	1.0	+30	50.3	8.8	✓✓
16	+30° ~~602~~ 5	3	3.4	+30	52.4	9.0	✓✓
17	+31° 565	3	4.3	+31	43.9	8.3	✓✓
18	+31° 553	3	2.0	+31	40.4	7.0	✓✓
19	+31° 555	3	2.4	+31	59.4	8.4	✓✓
20	+32° 577	3	2.5	+32	19.1	8.3	✓✓
21	+32° 582	3	4.1	+32	21.1	8.0	✓✓
22	+32° 585	3	5.2	+32	58.2	8.0	✓✓
23	+32° 588	3	5.9	+32	7.1	8.2	✓✓
24	+32° 591	3	6.8	+32	18.9	6.5	✓✓
25	+31° 576	3	7.7	+31	39.1	6.5	✓✓
26	+32° 602	3	10.1	+32	9.0	7.8	✓✓
27	+31° 581	3	11.2	+31	58.5	~~8.3~~	✓✓

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Dec. 18, 1911 (Cont)
I 3740S+

No.	Class	Dst.	Remarks
28	Ko	3	
29	A	3	
30	Ao	3	
31	A	2	
32	G	3	
33	Fp	3	
34	G	4	
35	Ao	9	
36	Ao	5	
37	Fo	3	
38	Bq	4	
39	G5	3	
40	F8	2	
41	Bq	2	
42	F5	3	
43	K	2	
44	A	1	
45	G5	2	
46	Ko	3	
47	Ko	2	
48	Ao	6	
49	A	4	
50	Ko	3	
51	G5	3	
52	F8	2	
53	A5	3	
54	Fo	5	
55	G5	3	

28	+32° 608	3	11.9	+32	41.7	7.8	V	V
29	+32° 612	3	12.7	+32	33.7	8.0	V	V
30	+32° 613	3	12.7	+32	24.8	8.0	V	V
31	+32° 619	3	14.1	+32	20.8	8.0	V	V
32	+32° 621	3	14.2	+32	32.9	7.6	V	V
33	+32° 623	3	14.6	+32	28.4	7.5	V	V
34	+32° 622	3	14.4	+32	48.8	7.3	V	V
35	+33° 636	3	15.4	+33	0.8	5.5	V	V
36	+33° 574	2	57.0	+33	26.5	7.5	V	V
37	+33° 576	2	57.2	+33	12.4	8.2	V	V
38	+33° 578	2	57.6	+33	4.3	7.7	V	V
39	+33° 577	2	57.5	+33	32.7	7.3	V	V
40	+32° 564	2	58.6	+32	50.6	8.8	V	V
41	+32° 566	2	58.9	+32	29.8	9.0	V	V
42	+31° 549	3	0.8	+31	55.4	8.2	V	V
43	+32° 563	2	58.3	+32	6.0	8.3	V	V
44	+33° 585	2	59.6	+33	44.9	9.1	V	V
45	+33° 579	2	58.1	+33	56.0	8.5	V	V
46	+34° 578	2	57.8	+34	33.1	8.3	V	V
47	+34° 581	2	58.9	+34	40.4	8.3	V	V
48	+34° 585	2	59.7	+34	53.3	8.0	V	V
49	+35° 628	2	58.9	+35	23.2	8.2	V	V
50	+34° 589	3	1.2	+34	55.8	8.2	V	V
51	+34° 595	3	2.3	+34	32.0	8.2	V	V
52	+34° 596	3	3.3	+34	26.2	8.0	V	V
53	+34° 601	3	3.9	+34	27.9	8.3	V	V
54	+34° 599	3	3.7	+34	46.9	7.8	V	V
55	+35° 647	3 2	4.6	+35	36.2	7.9		V

Cards made out

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Dec. 11, 1911 (Cont)

I 37405

No.	Class	Int.	Remark
56	A2	3	
57	K	2	
58	G	2	
59	F5	5	
60	A2	8	Metallic lines clearly seen.
61	K0	8	
61a	A	2	
62	A	3	
63	F5	2	
64	G	2	
65	F8	2	
66	G0	3	Poor focus
67	A	2	
68	G0	5	
69	Ma	2	
70	K0	6	
71	K0	5	
72	G0	6	
73	A0	2	
74	A0	2	
75	A0	3	
76	A2	4	
77	A0	5	
78	B8	5	
79	F8	3	
80	A0	5	
81	K0	3	
82	K5	3	
83	K5	3	

56	+35° 651	3	5.9	+35	10.7	8.3	✓	✓
57	+34° 604	3	5.2	+34	49.1	7.7	✓	✓
58	+34° 606	3	5.6	+34	15.2	8.3	✓	✓
59	+34° 611	3	7.0	+34	29.7	7.5	✓	✓
60	+34° 610	3	7.0	+34	8.9	6.5	✓	✓
61	+33° 619	3	9.7	+33	40.7	5.0	✓	✓
61a	+33° 607	3	6.7	+33	40.0	8.5	✓	✓
62	+35° 663	3	9.5	+35	0.6	8.0	✓	✓
63	+34° 621	3	10.3	+34	37.9	8.5	✓	✓
64	+34° 623	3	10.6	+34	56.7	8.0		✓
65	+34° 625	3	11.4	+34	43.1	8.9	✓	✓
66	+34° 626	3	11.6	+34	43.5	8.1	✓	✓
67	+36° 631	2	58.3	+36	2.6	8.4	✓	✓
68	+36° 632	2	58.5	+36	4.0	7.0	✓	✓
69	+36° 638	2	59.6	+36	29.3	8.0	✓	✓
70	+36° 640	3 2	0.3	+36	44.2	6.9	✓	✓
71	+37° 722	3	2.5	+37	1.9	6.6	✓	✓
72	+36° 650	3	3.0	+36	39.3	6.7	✓	✓
73	+36° 651	3	3.1	+36	26.5	8.6	✓	✓
74	+36° 652	3	3.3	+36	34.7	8.0	✓	✓
75	+36° 655	3	3.7	+36	43.9	8.1	✓	✓
76	+37° 731	3	4.8	+37	7.1	8.3	✓	✓
77	+36° 664	3	6.0 49.1	+36	43.1	7.0	✓	✓
78	+35° 653	3	6.1	+35	55.7	7.0	✓	/
79	+36° 669	3	7.1	+36	4.2	8.3	✓	✓
80	+35° 660	3	8.2	+35	49.8	7.0	✓	✓
81	+36° 676	3	10.2	+36	20.9	8.0	✓	✓
82	+37° 703	2	56.9	+37	2.4	8.0	✓	✓
83	+37° 705	2	58.2	+37	15.4	8.0	✓	✓

61a +33° 607 3 6.7 +33 40.0 8.5 +33 40.0 8.5 superposed ✓ ✓

Cards made on

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Dec. 18, 1911 (cont)

I 3740 5

No.	Class	Int.	Remark
84	A	3	
85	F	5	Poor focus
86	A2	3	
87	K	3	
88	F5	3	Poor focus
89	K0	5	
90	A	4	
91	A3	3	
92	B9	5	
93	Ma	3	
94	A3	4	
95	A	3	
96	K0	10	Bumed out
97	F0	3	
98	F	2	
99	F0	2	
100	B9	4	
101	K2	4	
102	K0	4	
103	F5	3	
104	K0	3	
105	A0	9	
106	F2	6	
107	A	3	
Time 2.15	108	F5	2	Poor focus
109	~~10~~ G5p	7	Emiss. Br = [illegible]. Abt = A5

84	+38° 634	2	57.3	+38	3.1	8.5	✓✓
85	~~+38° 639~~ +38° 640	2	~~58.2~~ 58.3	~~+38~~ +38	~~39.7~~ 30.9	~~8.6~~ 8.1	✓ Superposed ✓ +38 0639 exp at mont
86	+38° 635	2	57.4	+38	48.0	8.5	✓✓
87	+39° 702	3	56.1	+39	4.2	8.0	✓✓
88	+38° 629	2	55.5	+38	57.0	8.2	✓✓
89	+39° 689	2	55.1	+39	43.0	6.8	✓✓
90	+39° 713	2	58.3	+39	30.9	8.2	✓✓
91	+37° 713	3	0.0	+37	54.0	8.7	✓✓
92	+37° 715	3	0.9	+37	48.4	8.0	✓✓
93	+37° 719	3	2.1	+37	28.9	7.5	✓✓
94	+37° 721	3	2.2	+37	35.4	8.0	✓✓
95	+37° 723	3	2.7	+37	59.3	8.5	✓✓
96	+39° 724	3	2.0	+39	3.9	5.2	✓✓
97	+38° 662	3	3.8	+38	26.1	8.2	✓✓
98	+38° 666	3	4.1	+38	25.1	8.4	✓✓
99	+38° 667	3	4.2	+38	36.4	8.1	✓✓
100	+37° 739	3	6.4	+37	57.8	7.5	✓✓
101	+38° 682	3	7.2	+38	5.1	7.8	✓✓
102	+38° 689	3	8.4	+38	5.9	7.5	✓✓
103	+37° 751	3	9.2	+37	56.6	7.5	✓✓
104	+37° 753	3	9.2	+37	24.0	7.4	✓✓
105	+38° 690	3	8.4	+38	45.5	6.5	✓✓
106	+38° 693	3	9.9	+38	31.2	7.3	✓✓
107	+38° 699	3	11.5	+38	22.1	7.8	✓✓
108	+38° 701	3	11.9	+38	12.1	8.0	✓✓
109	+31 526	2	52.7	+31	50	6.5	✓ 21 m I 3740 5

Ident. by J. C. M. Dec. 27'11.

Checked L. A. W.

Words inside out

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January 4, 19XX

I 37408

Time 10:21

No.	Class	Dist.	Remark
1	A2	7	E
2	A	4	E
3	A	4	
4	A	3	
5	Ko	4	
6	G5	3	
7	A2	9	
8	A0	4	
9	A0	2	
10	F2	6	
11	Ko	6	
12	A	4	E
13	K2	3	
14	A	3	Another star, supposed at North-?
15	A0	5	
16	Mb	2	
17	F5	10	
18	A	4	
19	F0	3	
20	F8	4	
21	G5	5	
22	F2	4	
23	F	4	E
24	Ko	5	
25	F0	5	
26	F0	3	
27	A3	6	
28	A3	4	

1	+ 51° 1146	5 53.0	+51 34.6	6.3 ✓	
2	+ 51° 1158	5 57.9	+51 32.1	8.0 ✓	
3	~~+ 53° 989~~ + 52° 1023	~~5 56.6~~ 5 55.4	~~+53 8.5~~ +52 44.5	~~8.0~~ 9.2 ✓	
4	+ 52° 1038	5 57.8	+52 46.5	8.4 ✓	
5	+ 53° 994	5 59.3	+53 38.4	8.0 ✓	
6	+ 53° 997	6 0.1	+53 30.2	8.2 ✓	
7	+ 52° 1041	6 0.1	+52 40.1	6.7 ✓	
8	+ 51° 1161	6 1.2	+51 ~~41.8~~ 41.8	8.0 ✓	
9	+ 52° 1045	6 2.0	+52 1.3	9.2 ✓	
10	+ 52° 1046	6 2.4	+52 1.8	7.7 ✓	
11	+ 51° 1163	6 2.3	+51 11.9	6.0 ✓	
12	+ 51° 1164	6 3.0	+51 11.5	8.3 ✓	
13	+ 52° 1049	6 4.5	+52 12.5	7.8 ✓	
14	+ 52° 1052	6 5.6	+52 21.9	8.3 ✓	+ 52° 1053 6 5.6 + 52 34.6 7.9 Supposed
15	+ 52° 1059	6 7.3	+52 12.5	7.7 ✓	
16	+ 52 1062	6 7.7	+52 34.6	8.4 ✓	
17	+ 53° 1005	6 10.0	+53 30.5	5.8 ✓	
18	+ 53° 1013	6 ~~12.2~~ 11.8	+53° ~~17.8~~ 7.1	~~8.2~~ 7.5 ✓	
19	+ 53° 1017	6 14.1	+53 7.9	8.5 ✓	
20	+ 53° 1024	6 16.3	+53 7.9	8.3 ✓	
21	+ 52° 1075	6 17.3	+52 31.7	7.5 ✓	
22	+ 52° 1077	6 17.4	+52 13.4	8.0 ✓	
23	+ 51° 1184	6 11.9	+51 37.1	8.2 ✓	
24	+ 51° 1186	6 13.7	+51 41.8	7.4 ✓	
25	+ 52° 1083	6 18.9	+52 52.3	7.7 ✓	
26	+ 52° 1085	6 19.5	+52 53.3	8.1 ✓	
27	+ 52° 1097	6 22.4	+52 33.5	7.0 ✓	
28	+ 54° 993	5 59.3	+54 51.2	9.0 ✓	

Cancel Mark Out

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January 4, 191X (Cont)

I 37408

No.	Class	Rot.	Remark
29	F8	5	
30	A3	3	
31	F5	2	
32	A0	6	
33	F0	6	
34	G5	2	
35	F5	2	
36	G5:	2	very poor
37	G0	2	
38	G5	3	
39	A3	2	
40	A	3	
41	G5	3	
42	A2	3	
43	F8	4	Partly superposed on 42
44	G5	4	
45	A	4	E
46	F8	4	E
47	A	4	E
48	A	2	
49	G5	4	
50	A	2	
51	G0	6	
52	M	4	
53	F8	7	
54	K0	3	
55	K	2	

29	+54° 998	6 1.7	+54 42.7	8.4 v
30	+54° 997	6 1.0	+54 0.0	8.9 v
31	+54° 1000	6 2.0	+54 89	9.0 v
32	+53° 1003	6 6.3	+53 41.8	7.5 v
33	+54° 1014	6 8.4	+54 18.3	7.5 v
34	+54° 1019	6 10.2	+54 42.7	8.5 v
35	+53° 1022	6 12.0	+53 13.8	9.1 v
36	+54° 1027	6 14.4	+54 25.0	8.4 ✓
37	+54° 1035	6 17.1	+54 50.5	8.0 v
38	+54° 1036	6 17.2	+54 41.7	7.9 ✓
39	+54° 1037	6 17.2	+54 28.0	8.4 v
40	+54° 1039	6 17.8	+54 52.1	8.7 ✓
41	+54° 1041	6 19.6	+54 58.1	8.0 v
42	+54° 1042	6 20.2	+54 52.1	8.1 ✓
43	+54° 1043	6 20.4	+54 56.5	7.8 ✓
44	+53° 1031	6 19.5	+53 57.1	7.9 ✓
45	+54° 1045	6 21.9	+54 10.2	8.9 v
46	+54° 1048	6 23.3	+54 10.4	8.0 ✓
47	+54° 1050	6 23.9	+54 41.6	8.3 v
48	+53° 1060	6 0.7	+53 42.8	9.2 v
49	+53° 1062	6 1.3	+53 56.7	7.8 v
50	+53° 1063	6 1.6	+53 56.5	9.0 v
51	+56° 1100	6 3.9	+56 57.9	7.3 v
52	+56° 1101	6 4.1	+56 44.7	7.0 ✓
53	+57° 952	6 4.9	+57 27.4	7.0 ✓
54	+57° 954	6 6.4	+57 11.2	8.3 ✓
55	+56° 1104	6 5.7	+56 89.4	8.8 ✓

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January 4, 1911 (Contd)
I 37408

No	Class	Int.	Remark
56	K0	8	
57	K0	3	
58	F0	3	
59	K	3	
60	G5	2	
61	K0	6	
62	K0	3	
63	G	2	
64	G	3	
65	F0	7	
66	A2	4	
67	K	2	
68	A3	10	
69	F	1	
70	G	2	
71	G5	3	
72	F5	2	
73	G5	2	
74	K	2	
75	K	2	
76	A2	4	
77	K0	5	
78	A3	4	
79	F8	4	E
80	K0	3	
81	G5	6	
82	A2	5	

56	+56° 1106	b 6.9	+56 34.2	6.8	v
57	+56° 1108	b 7.3	+56 17.2	8.0	v
58	+56° 1109	b 7.7	+56 57.4	8.9	v
59	+57° 959	b 9.9	+57 28.4	8.5	v
60	+57° 962	b 10.6	+57 8.2	9.0	v
61	+57° 963	b 10.8	+57 2.4	6.9	v
62	+57° 964	b 11.1	+57 25.0	8.0	v
63	+56° 1112	b 9.4	+56 18.8	8.5	v
64	+56° 1114	b 10.2	+56 29.3	9.0	v
65	+56° 1115	b 10.3	+56 2.9	7.8	v
66	+57° 1122	b 13.6	+56 47.7	8.5	v
67	+56° 1120	b 12.6	+56 28.6	8.8	v
68	+56° 1125	b 14.2	+56 20.1	6.2	v
69	+55° 1073	b 12.9	+55 41.3	8.9	v
70	+55° 1076	b 14.0	+55 55.1	7.9	v
71	+55° 1077	b 14.0	+55 46.4	7.8	v
72	+56° 1128	b 17.9	+56 13.2	8.5	v
73	+55° 1082	b 18.2	+55 54.6	8.5	v
74	+55° 1083	b 18.3	+55 46.9	7.7	v
75	+55° 1087	b 19.7	+55 43.2	8.0	v
76	+55° 1089	b 20.7	+55 42.1	8.5	v
77	+55 1093	b 22.5	+55 27.3	6.7	v
78	+55° 1094	b 23.0	+55 35.8	8.0	v
79	+55° 1096	b 23.9	+55 46.5	8.0	v
80	+57° 947	b 2.2	+57 48.2	7.7	v
81	+59° 953	b 3.2	+59 15.0	6.5	v
82	+58° 912	b 4.8	+58 52.5	7.6	v

Comb. made on

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January H, 19?x (Cont)

I 37408

No.	Class	Int.	Remarks
83	A2	2	
84	A0	10	Burned out.
85	B5	5	
86	A0	4	
87	K	2	
88	A0	8	
89	K0	4	
90	A3	5	
91	K0	3	Partly superposed on 90
92	F8	5	
93	F2	7	
94	F8	2	
95	G	2	
96	K2	8	
97	B5	3	E
98	K0	2	
~~99~~	B5	8	
100	K	3	
101	K	2	
102	B9	3	Focus very poor.
103	A2	3	
104	F	2	
105	F	2	
106	F	7	E
107	A0	10	E
108	B5	4	E
109	A5	4	
110	F5	8	E

83	+58° 918	b 5.6	+58 21.6	8.8 v	
84	+59° 959	b 6.8	+59 3.3	8.0 v	
85	+58° 957	b 6.2	+59 36.3	7.7 v	
86	+59° 958	b 6.4	+59 32.2	8.0 v	
87	+59° 960	b 7.0	+59 53.2	8.0 v	
88	+59° 964	b 9.2	+59 24.9	7.0 v	
89	+60° 935	b 11.2	+60 9.0	7.0 v	
90	+59° 968	b 11.6	+59 46.9	7.5 v	
91	+59° 969	b 11.8	+59 43.4	8.0 v	
92	+58° 922	b 13.0	+58 29.9	7.6 v	
93	+58° 928	b 13.3	+58 39.8	8.0 v	
94	+58° 924	b 13.5	+58 48.2	8.0 v	
95	+58° 925	b 13.9	+58 29.0	8.0 v	
96	+58° 927	b 14.2	+58 29.5	6.0 v	
97	+58° 976	b 14.8	+58 ~~59~~ 28.7	8.5 v	
98	+59° 978	b 16.0	+59 3.3	8.4 v	
99	+58° 932	b 18.2 v	+58 16.2	6.3 v	
100	+58° 936	b 20.2	+58 50.6	9.0 v	
101	+57° 966	b 15.7	+57 38.1	5.5 v	
102	+57° 978	b 20.2	+57 38.2	8.3	+57° 977 20.2 +58.8 9.0 b 20.7 superposed ✓ Lee Wins Comparison
103	+57° 981	b 21.2	+57 7.7	8.7 v	
104	+56° 1130	b 21.9	+56 44.7	9.0 v	
105	+57° 983	b 22.3	+57 3.4	8.8 v	
106	+56° 1134	b 23.8	+56 29.4	6.8 v	
107	+56° 1136	b 25.3	+56 58.7	6.2 v	
108	+57° 988	b 26.0	+57 18.0	6.7 v	
109	+58° 941	b 23.0	+58 5.5	7.9 v	
110	+58° 943	b 23.7	+58 12.7	6.8 v	

Comas Wins 97

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January 4, 1911 (Cont)

I 37408

No.	Class	Int.	Remark
111	K	2	
112	G	2	
113	A	3	Poor focus
114	A	3	" "
115	A	5	E
116	A	2	
117	Ma	8	
118	F	5	E
119	A2	5	
120	A	3	
121	A	6	
122	A0	7	Poor focus

Time 10.50

cont. 133, 74

111	+60° 921	5 50.8	+60 26.3	8.0 v
112	+60° 924	5 52.3	+60 27.6	8.2 v
113	+60° 925	5 52.4	+60 40.3	8.2 v
114	+61° 851	5 51.6	+61 23.5	8.5 v
115	+61° 849	5 51.4	+61 54.2	8.2 v
116	+61° 862	5 53.1	+61 32.3	8.0 v
117	+61° 869	6 11.6	+61 31.8	5.5 v
118	+61° 878	6 8.7	+61 48.9	6.9 v
119	+60° 951	6 8.9	+60 48.7	7.0 v
120	+60° 961	6 12.9	+60 51.7	8.1 v
121	+60° 971	6 17.4	+60 13.8	7.2 v
122	+59° 996	6 23.5	+59 45.9	7.0 v

Cards made

Ident L.D.W.

Checked by J.C.M. Feb. 15, '12

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January 18, 1912

Time 11.21 B10623

No.	Class	Dt.	Remark
1	Ma	3	
2	A2	7	
3	Ao	3	
4	F8	3	
5	G5	3	
6	Ko	3	
7	G5	4	
8	Ma	8	
9	B9	5	Rather dense
10	Ao	8	~~Somewhat~~
11	Ko	2	
12	G?	2	Hazy. Perhaps a cluster
13	Ko	5	2
14	Ao	3	2
15	G	9	2
16	B8	6	Difficult
17	F8	2	
18	Ko	2	
19	G5	3	
20	F5	3	
21	A	1	
22	K2	3	
23	G5	2	
24	A5	5	
25	G5	3	
26	F8	3	
27	B	10+	

1	-49° 469	1	35.0	-49	23.6	7.2 ✓
2	-50° 461	1	36.7	-50	40.2	6.7 ✓
3	-50° 476	1	39.3	-50	43.4	8.6 ✓
4	-50° 478	1	39.8	-50	7.2	8.6 ✓
5	-50° 487	1	41.9	-50	16.1	8.5 ✓
6	-51° 414	1	38.8	-51	16.3	8.1 ✓
7	-51° 417	1	39.7	-51	38.9	8.0 ✓
8	-51° 419	1	41.2	-51	26.3	5.8 ✓
9	-51° 434	1	44.0	-51	6.3	7.6 ✓
10	-50° 514	1	46.0	-50	49.5	6.1 ✓
11	-50° 522	1	47.0	-50	36.5	8.0 ✓
12	-50° 526	1	47.6	-50	8.2	9.0 ✓
13	-48° 487	1	46.3	-48	26.2	6.4 ✓
14	-48° 497	1	47.3	-48	7.6	8.2 ✓
15	-47° 597	1	52.2	-47	59.7	5.1 ✓
16	-50° 545	1	51.3	-50	26.8	6.4 ✓
17	-50° 547	1	51.8	-50	1.0	8.5 ✓
18	-49° 539	1	52.1	-49	51.5	8.2 ✓
19	-49° 555	1	54.8	-49	13.2	7.9 ✓
20	-49° 567	1	57.5	-49	30.4	8.2 ✓
21	-49° 569	1	58.4	-49	23.7	8.8 ✓
22	-50° 574	1	57.5	-50	0.6	7.3 ✓
23	-50° 578	1	58.3	-50	5.7	8.1 ✓
24	-50° 592	2	0.4	-50	16.6	7.8 ✓
25	-50° 572	1	57.2	-50	43.8	8.0 ✓
26	-51° 500	1	57.6	-51	6.0	8.1 ✓
27	-52° 241	1	51.1	-52	13.7	5.5 ✓

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January 18, 1912 (Cont)
B 106213

	Wt.	Class	Dist.	Remark
	28	K0	8	
	29	K5	6	
	30	K5	4	
	31	K0	3	
	32	K	2	
	33	K2	1	
	34	K5	2	
	35	K0	4	
	36	K5	3	
	37	K	1	Difficult
June 11.30	38	B5	4	Maybe a trail of a very bright star

28	-52°	24'.2	1	52.2	-52	23.1 ~~13.7~~	6.6 5.8 ✓
29	-51°	53.2	2	5.5	-51	26.0	6.4 ✓
30	-52°	27.3	2	5.2	-52	19.3	7.3 ✓
31	-49°	60.4	2	6.8	-49	55.0	8.1 ✓
32	-49°	59.8	2	4.9	-49	11.2	7.6 ✓
33	-49°	57.7	2	0.7	-49	5.4	7.8 ✓
34	-47°	66.4 ~~58.5~~	2	7.1 ~~5.8~~	-47	45.3 ~~1.1~~	7.8 ✓
35	-47°	66.4	2	7.1	-47	45.3	7.3 ✓
36	-51°	55.2	2	10.9	-51	28.0	7.5 ✓
37	-51°	55.5	2	11.5	-51	21.2	8.2 ✓
38	-52°	28.5	2	12.0	-52	5.5	4.1 ✓ [Trail]

Ident. by J. C. M. Feb. 15, 1912.
Checked by A. D. N. Feb. 21, 1912.

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January 18, 1912

Zone 11.40 B12358

No	Class	Int	Remark
1	A	2	E
2	A2	5	
3	Y5	6	
4	Y5	3	
5	A5?	2	Difficult
6	A0	6	
7	F5	4	
8	K2	5	
9	K	2	
10	F5	5	
11	F?	2	Difficult
12	K Y5	2	
13	K	2	
14	Y5	2	
15	A5	5	8P of two
16	K	3	E
17	A	4	E
18	K	2	
19	F?	2	
20	mK	3	
21	K	3	E
22	Y5	2	E
11.4	23	B	2	E

1	−42° 802	2	18.0	−42	33.5 8.8 ✓
2	−42° 813	2	20.0	−42	43.6 7.4 ✓
3	−43° 724	2	17.3	−43	46.2 6.5 ✓
4	−44° 691	2	15.5	−44	37.9 7.9 ✓
5	−47° 656	2	5.5	−47	1.9 8.3 ✓
6	−47° 663	2	6.5	−47	10.4 8.1 ✓
7	−47° 667	2	7.6	−47	24.1 8.1 ✓
8	−47° 664	2	7.1	−47	45.3 7.3 ✓
9	−47° 679	2	9.4	−47	58.1 8.3 ✓
10	−47° 704	2	15.7	−47	30.6 8.2 ✓
11	−47° 716	2	17.5	−47	43.1 8.7 ✓
12	−45° 769	2	19.8	−45	42.2 7.9 ✓
13	−45° 784	2	23.0	−45	36.4 7.7 ✓
14	−45° 826	2	31.4	−45	18.4 8.1 ✓
15	−45° 843	2	33.9	−45	16.6 7.4 ✓
16	−45° 874	2	38.8	−45	11.0 7.5 ✓
17	−45° 882	2	40.5	−45	53.5 8.0 ✓
18	−44° 802	2	34.1	−44	41.6 8.0 ✓
19	−44° 805	2	34.6	−44	20.4 8.4 ✓
20	−42° 865	2	30.2	−42	39.5 7.3 ✓
21	−42° 875	2	33.4	−42	26.7 7.0 ✓
22	−42° 834	2	24.3	−42	38.0 7.7 ✓
23	−42° 829	2	23.4	−42	59.0 8.0 ✓

Ident. by J. C. M. Feb. 15, 1912
Checked by A. D. W. Feb. 21, 1912.

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January 18, 1912

B 12,2,85

Time 11.46

No.	Class	Int.	Remark
1	Q2	2	C. Difficult
2	K2	5	
3	K5	5	
4	K5?	2	Difficult
5	K	1	
6	K0	8	
7	K0	3	
8	K5	1	
9	K5	2	
10	Q5	2	Difficult
11	K0	3	
12	K0	8	Burned out
13	Q	3	K not seen distinctly enough to subtend
14	K0	6	
15	K2	3	
16	K0	3	
Time 11.50	17	K5	2
	18		

	CPMo.	R.A.	Dec.	Magn.
		1875 pos.		
1	-37° 887	2 16.2	-37 36.0	8.0 ✓
2	-38° 797	2 17.9	-38 9.0	6.6 ✓
3	-37° 915	2 19.3	-37 55.7	6.6 ✓
4	-39° 716	2 23.7	-39 31.0	8.6 ✓
5	-40° 619	2 21.7	-40 8.7	7.9 ✓
6	-40° 628	2 23.9	-40 58.3	7.5 ✓
7	-39° 679	2 14.3	-39 33.7	7.7 ✓
8	-39° 684	2 15.6	-39 36.7	8.3 ✓
9	-39° 689	2 16.8	-39 16.3	8.0 ✓
10	-39° 690	2 16.8	-39 32.7	8.7 ✓
11	-39° 695	2 17.5	-39 58.9	7.5 ✓
12	-41° 681	2 19.5	-41 24.8	6.3 ✓
13	-42° 802	2 18.0	-42 33.5	8.8 ✓
14	-42° 813	2 20.0	-42 43.6	7.4 ✓
15	-42° 829	2 23.4	-42 39.0	8.0 ✓
16	-42° 834	2 24.3	-42 38.0	7.7 ✓
17	-41° 693	2 21.8	-41 33.9	8.3 ✓

Ident. by L. D. M.

Checked by J. C. M. Feb. 14, 12

Comb more ☆

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January 19, 1912

Time 10.09 B 12267

No.	Class	Int.	Remark
1	K	3	E
2	K	3	E
3	G	3	E Difficult
4	K0	5	
5	F0	H	
6	F5	9	Burned out.
7	A5	2	Difficult
8	G5	9	
9	F0	21	
10	G0	21	
11	G5	21	
12	F8	4	
13	F5	3	
14	K	21	
15	F5	2	E
16	G0	5	E
17	F2	10	
18	F	21	Difficult
19	A	21	
20	A5	4	
21	F2	3	
22	F	21	
23	F5	10	Burned out
24	K0	3	
25	K0	5	
26	A	10	Burned out
27	K0	3	

1	-37° 962	2	28.5	-37	58.1	7.5 ✓
2	-38° 858	2	30.1	-38	20.7	8.0 ✓
3	-39° 743	2	28.1	-39	54.0	8.5 ✓
4	-39° 757	2	31.3	-39	16.0	8.0 ✓
5	-39° 768	2	32.1	-39	27.7	8.4 ✓
6	-38° 875	2	33.4	-38	31.6	6.4 ✓
7	-38° 890	2	36.5	-38	19.1	9.0 ✓
8	-38° 894	2	37.1	-38	54.9	6.1 ✓
9	-39° 778	2	36.6	-39	7.5	8.6 ✓
10	-39° 784	2	37.0	-39	24.3	8.0 ✓
11	-38° 899	2	38.4	-38	27.6	8.0 ✓
12	-38° 910	2	40.7	-38	40.9	7.7 ✓
13	-38° 917	2	42.1	-38	15.5	8.5 ✓
14	-37° 1043	2	42.0	-37	52.0	7.5 ✓
15	-37° 1038	2	41.4	-37	25.8	8.5 ✓
16	-37° 1050	2	43.1	-37	30.3	7.7 ✓
17	-37° 1053	2	43.7	-37	56.5	6.7 ✓
18	-38° 927	2	44.0	-38	59.9	8.7 ✓
19	-38° 935	2	46.2	-38	36.4	8.7 ✓
20	-38° 937	2	46.3	-38	13.5	8.0 ✓
21	-38° 939	2	46.9	-38	35.8	8.3 ✓
22	-39° 840	2	48.1	-39	3.8	8.7 ✓
23	-38° 948	2	48.7	-38	56.8	6.0 ✓
24	-38° 955	2	49.7	-38	20.3	8.3 ✓
25	-39° 853	2	51.0	-39	9.7	7.0 ✓
26	-38° 976	2	52.7	-38	41.8	6.2 ✓
27	-38° 986	2	53.7	-38	29.7	7.3 ✓

Could not get out

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January 19, 1912 (Cont.)

B12267

No.	Class	Int.	Remark
28	K0	2	
29	K0	2	
30	F	2	
31	G0	3	
32	K5	3	
33	A	3	Another star superposed at southend.
34	F8	2	
35	F2	4	
36	K	1	
37	A	2	
38	K5	8	
39	A	7	e
40	G5	3	
41	A0	10	
42	F5	6	
43	K0	4	
44	A	7	e
45	G5	3	
46	G	2	
47	K	2	
48	K5	2	
49	B	10+	Burner out
50	A	10	
51	G5	3	
52	K5	3	
53	F5	4	
54	K2	3	

28	-39°	893	2	59.3	-39	39.8	8.2 ✓
29	-39°	901	3	0.9	-39	47.3	8.0 ✓
30	-39°	907	3	1.8	-39	35.6	8.9 ✓
31	-39°	917	3	3.3	-39	46.9	8.1 ✓
32	-40°	805	3	1.8	-40	15.3	7.5 ✓
33	-40°	802	3	0.6	-40	11.9	8.6 ✓
34	-40°	794	2	59.3	-40	35.9	8.4 ✓
35	-40°	787	2	57.8	-40	44.9	8.1 ✓
36	-38°	1006	2	57.7	-38	44.2	8.5 ✓
37	-38°	1015	3	0.1	-38	51.7	9.0 ✓
38	-38°	1023	3	1.0	-38	58.3	8.0 ✓
39	-37°	1162	3	1.0	-37	49.5	7.5 ✓
40	-38°	1038	3	3.6	-38	19.6	8.0 ✓
41	-39°	929	3	6.0	-39	31.3	7.0 ✓
42	-39°	935	3	7.1	-39	29.8	7.2 ✓
43	-39°	936	3	7.2	-39	50.6	7.0 ✓
44	-39°	950	3	9.1	-39	16.5	6.8 ✓
45	-41°	740	2	32.4	-41	17.0	8.2 ✓
46	-41°	743	2	32.8	-41	23.0	9.0 ✓
47	-41°	754	2	34.6	-41	15.9	8.5 ✓
48	-40°	687	2	34.9	-40	32.6	8.3 ✓
49	-40°	689	2	36.7	-40	23.3	4.2 ✓
50	-41°	769	2	38.5	-41	3.5	6.3 ✓
51	-40°	716	2	40.9	-40	16.0	7.7 ✓
52	-41°	760	2	36.0	-41	50.3	7.4 ✓
53	-41°	767	2	38.2	-41	46.6	8.6 ✓
54	-41°	777	2	40.3	-41	49.9	7.8 ✓

Comp made set

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January 19, 1912 (cont)
B 12267

No.	Class	Int.	Remark
55	F5	4	
56	F8	5	
57	K0	2	
58	K	1	
59	G	2	Approx. of time
60	G5	7	
61	G5	2	
62	F5	2	
63	A	3	
64	G0	5	
65	G0	3	
66	G	2	
67	G	1	
68	G5	1	
69	K	1	
70	G5	3	
71	K5	5	
72	A	4	
73	A	10	
74	A	2	
75	G5	2	
76	A	10	Burnham
77	F	3	Difficult
78	G0	4	
79	A2	6	Maybe a trail of a very bright star
80	G0	3	
81	G5	4	

55	−41° 788	2	40.8	−41	45.8	8.0	J
56	−41° 792	2	41.9	−41	29.2	7.9	√
57	−42° 913	2	40.2	−42	24.0	8.0	J
58	−42° 914	2	40.2	−42	57.6	8.9	J
59	−43° 830	2	39.2	−43	19.3 (22.0)	8.9 (9.1)	√
60	−43° 835	2	40.8	−43	22.0	7.0	√
61	−43° 846	2	42.1	−43	31.7	8.4	√
62	−44° 849	2	43.6	−44	5.8	8.6	√
63	−44° 852	2	44.2	−44	24.8	9.3	J
64	−44° 863	2	46.1	−44	35.3	7.9	√
65	−42° 941	2	45.7	−42	44.6	8.0	√
66	−43° 869	2	46.8	−43	21.0	8.7	J
67	−43° 866	2	46.3	−43	40.0	8.6	√
68	−43° 877	2	47.9	−43	29.4	8.4	√
69	−43° (879) 881	2	48.8	−43	11.0 9.6	8.8 9.6	J interfered
70	−43° 884	2	49.7	−43	4.6	7.3	√
71	−43° 817	2	46.4	−43	28.8	7.1	J
72	−43° 825	2	47.7	−43	40.1	8.2	√
73	−43° 827	2	48.0	−43	54.8	6.7	√
74	−43° 832	2	49.0	−43	46.1	8.5	J
75	−40° 724	2	43.2	−40	19.6	8.4	J
76	−40° 736	2	46.0	−40	26.6	6.5	√
77	−40° 750	2	49.1	−40	42.5	8.0	√
78	−39° 860	2	51.7	−39	56.4	7.8	√
79	−40° 771	2	53.5	−40	48.2	2.6	√ [Trail]
80	−41° 857	2	54.4	−41	13.6	8.4	√
81	−42° 987	2	55.5	−42	22.2	6.9	J

Eyes made

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January 19, 1912 (Cont.)

B 1267

No.	Class	Int.	Remarks
82	K	1	
83	K2	6	
84	Q2	4	
85	Q3	7	
86	K0	4	
87	K	4	E
88	K0	4	
89	K	2	
90	K0	4	
91	M	6	
92	K2	4	
93	M5	6	
94	Q0	3	
95	K0	3	
96	Q	10+	Burned out
97	K2	4	
98	K	1	
99	Q3	4	
100	K2	3	
101	Q5	7	The smallest of the stars
102	K	3	E
103	?	3	
104	K0	6	E
105	K	3	E
106	K	5	E
107	K	3	E
108	?	7	E

82	-42° 996	2	57.4	-42	19.8	7.9 ✓
83	-41° 893	3	0.6	-41	28.1	7.3 ✓
84	-41° 904	3	4.0	-41	49.3	8.3 ✓
85	-40° 826	3	7.6	-40	52.8	7.3 ✓
86	-40° 833	3	9.5	-40	43.3	7.3 ✓
87	-40° 839	3	10.8	-40	13.6	7.1 ✓
88	-41° 926	3	8.7	-41	50.9	7.2 ✓
89	-41° 936	3	10.7	-41	41.5	8.2 ✓
90	-42° 1046	3	8.4	-42	50.5	7.5 ✓
91	-42° 865	2	30.2	-42	39.5	7.3 ✓
92	-42° 876	2	33.4	-42	5.7	7.1 ✓
93	-42° 875	2	33.4	-42	26.7	7.0 ✓
94	-43° 798	2	32.3	-43	30.3	8.9 ✓
95	-43° 802	2	32.9	-43	46.7	8.0 ✓
96	-43° 814	2	36.0	-43	25.7	5.0 ✓
97	-43° 819	2	37.4	-43	4.0	7.3 ✓
98	-42° 894	2	36.3	-42	34.2	8.6 ✓
99	-44° 805	2	34.6	-44	20.4	8.4 ✓
100	-44° 802	2	34.1	-44	41.6	8.2 ✓
101	-45° 843	2	38.9	-45	16.6	7.4 ✓
102	-45° 826	2	31.4	-45	18.4	8.1 ✓
103	-45° 808	2	28.2	-45	44.7	8.7 ✓
104	-46° 746	2	27.6	-46	25.5	7.2 ✓
105	-46° 743	2	26.3	-46	13.9	7.8 ✓
106	-46° 722	2	22.1	-46	33.7	7.5 ✓
107	~~-46° 722~~ -45° 784	2	22.1 ~~23.0~~	~~-46~~ -45	~~33.7~~ 36.4	~~7.5~~ 7.7 ✓
108	-47° 804	2	32.9	-47	11.2	7.6 ✓

Under water out

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January 19, 1912 (Cont)

B12267

No.	Class	Int.	Remark
109	Y5	10	
110	Q3	3	
111	K0	5	
112	Q2	4	
113	F5	3	
114	K0	6	
115	F5	5	
116	Q2	5	
117	Y5	6	
118	?	1	
119	Y0	4	
120	F5	1	
121	A5k	2	Region of K not seen distinctly.
122	Y0	6	
123	?	2	
124	Y0	4	
125	K0	6	
126	A	3	
127	F5	3	
128	F5	3	
129	K5	21	
130	K2	2	
June 10.42	131	Y5	3

109	-47°	832	2	37.6	-47	3.0	6.4 V
110	-46°	785	2	37.2	-46	8.2	8.4 V
111	-45°	874	2	38.8	-45	11.0	7.5 V
112	-45°	882	2	40.5	-45	53.5	8.0 V
113	-46°	801 747	2	41.4 40.8	-46	7.8 49.0	8.1 7.0 V
114	-46°	797	2	40.8	-46	49.0	7.0 V
115	-46°	817	2	44.4	-46	52.0	7.3 V
116	-46°	831	2	46.8	-46	30.6	8.1 V
117	-45°	913	2	44.5	-45	36.5	7.0 V
118	-45°	926	2	46.8	-45	45.2	8.7 V
119	-45°	946	2	49.3	-45	7.0	7.8 V
120	-44°	876	2	47.8	-44	47.6	9.2 V
121	-43°	907	2	53.3	-43	19.7	8.4 V
122	-44°	915	2	54.4	-44	14.3	7.0 V
123	-44°	918	2	54.9	-44	6.8	8.6 V
124	-44°	951	2	58.9	-44	32.5	8.0 V
125	-44°	956	2	59.4	-44	28.2	6.9 V
126	-44°	968	3	1.2	-44	23.4	9.2 V
127	-44°	994	3	4.2	-44	42.0	8.3 V
128	-44°	1010	3	5.8	-44	11.7	8.2 V
129	-43°	1013	3	11.2	-43	44.8	7.7 V
130	-43°	1006	3	10.0	-43	8.2	7.8 V
131	-44°	1038	3	10.6	-44	35.1	7.4 V

Cannot make out

Ident. by J. C. M. Feb. 15, 1912
Checked by A. D. M. Feb. 21, 1912.

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January 19, 1912

Time 10.58

I 37488

No	class	Dur.	Remark
1	F8	4	E
2	A0	8	E
3	A	5	E
4	A	2	
5	B5	6	
6	B9	4	
7	A	3	
8	K	3	
9	A2	6	
10	A	3	
11	F8	4	
12	F0	5	
13	B9	7	
14	A0	4	
15	A	21	
16	B5	3	
17	A2	3	
18	F8	21	
19	A5	6	
20	A	21	
21	A0	4	
22	A3	6	
23	B9	5	
24	F	3	Poor focus
25	B9	48	
26	B9	3	
27	B8	3	Poor focus

No	Q.M.	R.A.	Dec.	Mag.
1	+29 6 35	3 42 1.8	+29 13.7	8.1 ✓
2	+29 6 33	3 41 34.8	+29 17.8	8.5 ✓
3	+29 6 32	3 41 13.8	+29 11.3	7.8 ✓
4	+29 6 21	3 39 22.3	+29 29.5	9.0 ✓
5	+29 6 20	3 38 27.2	+29 24.1	8.3 ✓
6	+29 6 16	3 37 31.3	+29 12.3	8.3 ✓
7	+28 5 82	3 38 7.0	+28 13.0	8.5 ✓
8	+28 5 80	3 37 16.5	+28 25.1	8.4 ✓
9	+28 5 76	3 36 36.0	+28 12.1	7.9 ✓
10	+27 5 61	3 36 42.1	+27 44.5	7.9 ✓
11	+27 5 58	3 35 54.2	+27 27.9	7.0 ✓
12	+27 5 56	3 35 48.4	+27 26.1	6.6 ✓
13	+28 5 64	3 32 27.5	+28 13.8	7.0 ✓
14	+28 5 62	3 31 47.5	+28 17.6	7.0 ✓
15	+27 5 40	2 30 28.6	+27 28.4	8.7 ✓
16	+27 5 29	2 27 19.6	+27 6.8	8.0 ✓
17	+27 5 26	2 26 39.2	+27 22.5	8.5 ✓
18	+28 5 47	3 27 29.1	+28 27.6	8.1 ✓
19	+28 5 48	3 27 49.0	+28 44.7	6.8 ✓
20	+28 5 44	3 26 7.5	+28 49.5	9.0 ✓
21	+27 5 79	3 27 17.3	+29 30.8	7.4 ✓
22	+30 5 82	3 43 2.2	+30 44.1	6.5 ✓
23	+31 ~~5 79~~ 65 5	3 40 3.3	+31 49.1	8.1 ✓
24	+31 6 52	3 39 18.6	+31 30.4	8.0 ✓
25	+29 6 07	3 35 53.8	+29 46.8	8.0 ✓
26	+29 6 06	3 35 44.3	+29 22.2	8.2 ✓
27	+29 ~~6 02~~ 6 08	3 35 ~~00~~ 3.2	+29 ~~35.4~~ 18.0	~~9.0~~ 7.5 ~~6.02~~ superfused ✓

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January 19, 1912 (Cont)

I 37488

Ns.	Class	Sett.	Remark
June 11.04	28	G	2

cmth. in 131, 26

Ns.	D.M.	R.A.	Dec.	mg.
28	+29 5 92	3 32 23.9	+29 1.4	8.6 ✓

Made on

Struck by C. Allen.
Checked by J.C.M. Feb. 6 '12

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January 19, 1912

B 23761

June 11.17

No.	class	Int.	Remark
1	K	2	
2	K0	5	
3	F2	3	
4	A0	5	
5	K0	3	
6	F	2	
7	K0	6	
8	K2	3	
9	K0	10	
10	K2	2	
11	F0	4	
12	F0	3	
13	G	2	
14	F0	4	
15	F2	4	
16	A	2	
17	G	2	
18	K0	2	
19	G5	2	
20	F5	5	
21	G0	3	
22	(A2)	8	
23	G	3	
24	G5	3	Auriga star superposed
25	G5	4	
26	K0	4	
27	G	2	

1	−44° 42	0	8.4	−44	31.6	8.5	✓
2	−44° 47	0	10.2	−44	28.6	7.5	✓
3	−44° 49	0	10.3	−44	33.2	8.9	✓
4	−44° 52	0	11.0	−44	32.8	7.5	✓
5	−44° 57	0	11.9	−44	39.8	8.5	✓
6	−44° 50	0	10.6	−44	14.0	9.1	✓
7	−43° 55	0	10.1	−43	41.5	8.1	✓
8	−43° 50	0	9.8	−43	21.9	8.5	✓
9	−43° 64	0	12.5	−43	56.1	6.6	✓
10	−43° 71	0	13.4	−43	46.8	9.2	✓
11	−44° 81	0	16.0	−44	34.3	9.0	✓
12	−43° 93	0	17.9	−43	53.6	8.9	✓
13	−44° 91	0	17.7	−44	59.2	9.5	✓
14	−44° 93	0	18.1	−44	49.9	9.3	✓
15	−44° 98	0	19.5	−44	32.5	8.9	✓
16	−45° 105	0	17.8	−45	17.0	9.6	✓
17	−45° 113	0	19.1	−45	9.2	9.7	✓
18	−45° 116	0	19.3	−45	4.4	8.7	✓
19	−45° 132	0	22.2	−45	4.8	9.4	✓
20	−45° 140	0	22.8	−45	17.8	8.4	✓
21	−44° 117	0	23.8	−44	46.3	8.7	✓
22	−44° 125	0	25.2	−44	17.9	7.5	✓
23	−43° 129	0	25.0	−43	59.0	8.3	superfus-d ✓
24	−44° 122	0	25.0	−44	2.8	9.4	✓
25	−44 127	0	26.5	−44	45.3	8.9	✓
26	−44° 140	0	28.0	−44	46.1	8.6	✓
27	−44° 146	0	29.7	−44	40.6 8.7	9.3	✓

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January 19, 1912 (Cont.)

B23761

No.	Class	Int.	Remark
28	F8	4	
29	Q2	8	
30	K0	5	
31	K	2	
32	G	2	
33	F	8	
34	K0	3	
35	K5	3	
36	F	5	Prof Jacobs
37	Q5	10	Burned out.
38	F	4	
39	K2	3	
40	F8	3	
41	K0	6	
42	G0	2	
43	K0	2	
44	G0	3	
45	G	2	
46	K0	10	Burned out.
47	K5	2	
48	F8	2	
49	F8	8	
50	G	10+	Burned out
51	F8	4	
52	F8	6	
53	K0	3	
54	G5	9	

Cards made out

28	−43° 153	0	36.3	−43	53.8	8.6	✓
29	−43° 145	0	28.3	−43	7.3	6.9	✓
30	−43° 167	0	32.9	−43	38.9	7.9	✓
31	−43° 170	0	33.1	−43	20.4	8.7	✓
32	−43° 185	0	34.8	−43	46.0	9.2	✓
33	−43° 190	0	36.0	−43	48.6	7.0	✓
34	−44° 174	0	35.9	−44	17.6	8.9	
35	−43° 196	0	37.2	−43	33.9	8.7	✓
36	−43° 204	0	38.7	−43	17.1	8.5	✓
37	−43° 208	0	39.0	−43	21.3	6.4	✓
38	−43° 210	0	39.6	−43	49.6	8.6	✓
39	−44° 183	0	37.5	−44	48.5	8.0	✓
40	−45° 215	0	36.6	−45	13.1	9.2	✓
41	−46° 149	0	28.4	−46	6.9	7.0	✓
42	−45° 172	0	28.5	−45	19.5	9.0	✓
43	−45° 192	0	31.5	−45	6.0	9.3	✓
44	−45° 193	0	31.9	−45	32.6	9.4	✓
45	−45° 196	0	32.4	−45	30.1	9.4	✓
46	−45° 201	0	33.9	−45	29.1	6.4	✓
47	−44° 183	0	32.7	−44	41.7	9.1	✓
48	−45° 182	0	30.0	−45	28.6	9.5	✓
49	−46° 169	0	32.5	−46	35.4	7.3	✓
50	−46° 180	0	35.4	−46	46.5	4.7	✓
51	−46° 187	0	36.9	−46	58.1	8.9	✓
52	−46° 186	0	36.4	−46	13.8	8.0	✓
53	−46° 189	0	37.0	−46	28.2	8.4	✓
54	−45° 222	0	37.4	−45	52.1	7.0	✓

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January 19, 1912 (cont)

B 3.3761

No.	Class	Int.	Remark
55	K	1	
56	f5	2	
57	f8	4	
58	K2	3	
59	g0	4	
60	g	10	
61	K0	2	
62	g5	3	
63	g5	3	
64	A	2	
65	K0	4	
66	K	2	
67	f8	5	
68	g	3	
69	K	2	
70	A	8	Poor focus
71	K	2	
72	f2	5	
73	g5	4	
74	f5	3	
75	g5	6	
76	K0	4	
77	K5	3 2v	
78	f2	5	
79	K0	2	
80	f8	2	
81	f5	6	

53	−45° 22.5	0	38.1	−45	38.1	9.3	✓
56	−45° 22.6	0	38.5	−45	40.0	9.2	✓
57	−45° 22.9	0	39.4	−45	42.2	9.1	✓
58	−46° 19.4	0	38.5	−46	39.8	8.9	✓
59	−47° 21.0	0	39.6	−47	13.9	9.3	✓
60	−47° 22.9	0	43.1	−47	22.7	66	✓
61	−47 23.8	0	44.6	−47	9.9	8.7	✓
62	−47 24.7	0	45.9	−47	22.1	8.3	✓
63	−46° 22.3	0	44.3	−46	36.9	8.5	✓
64	−46° 21.4	0	42.5	−46	24.5	9.6	✓
65	−45° 24.8	0	42.3	−45	33.8	8.1	✓
66	−45° 25.1	0	42.7	−45	26.8	8.8	✓
67	−44 19.8	0	40.2	−44	47.2	8.3	✓
68	−44° 20.6	0	42.3	−44	27.3	8.9	✓
69	−44° 21.4	0	44.0	−44	40.3	9.3	✓
70	−44° 21.6	0	44.2	−44	41.6	6.7	✓
71	−45° 4.9	0	8.9	−45	20.9	8.7	✓
72	−45° 6.6	0	11.0	−45	3.2	7.8	✓
73	−45° 6.7	0	11.2	−45	20.9	8.2	✓
74	−46° 5.4	0	10.3	−46	18.3	8.9	✓
75	−46° 4.2	0	8.3	−46	43.7	7.2	✓
76	−46° 5.1	0	9.4	−46	56.0	7.6	✓
77	−47° 4.4	0	8.4	−47	18.7	8.3	✓
78	−47° 5.5	0	10.5	−47	16.2	7.8	✓
79	−47° 5.8	0	11.2	−47	1.6	9.1	✓
80	−46° 6.1	0	12.5	−46	46.4	9.4	✓
81	−47° 6.3	0	12.3	−47	13.8	7.0	✓

Cirrus made out

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January 19, 1912 (cont)

B 23761

No.	Class	Int.	Remark
82	Ma	5	
83	Ko	3	
84	Ko	2	
85	A	2	
86	Go	5	
87	F8	3	
88	F5	3	
89	F2	3	
90	G5	2	
91	Go	2	
92	F5	1	
93	G5	1	
94	G	2	
95	Go	4	
96	A2	4	
97	G5	5	
98	F8	3	
99	G5	2	
100	A5	2	Difficult
101	Fo	5	
102	F	1	Difficult
103	F	2	
104	F	2	
105	A2	7	
106	Ko	3	
107	G	2	
108	Fo	4	

82	-47° 68	0	13.2	-47	11.8	7.3	v
83	-45° 77	0	13.0	-45	37.3	9.0	✓
84	-46° 58	0	11.8	-46	27.3	8.9	✓
85	-46° 71	0	14.1	-46	24.2	9.7	✓
86	-45° 95	0	16.1	-45	20.6	8.7	✓
87	-45° 101	0	16.9	-45	42.8	9.2	✓
88	-46° 86	0	16.8	-46	10.6	9.2	✓
89	-47° 83	0	16.0	-47	0.1	9.1	✓
90	-46° 84	0	16.6	-46	39.0	8.9	✓
91	-47° 90	0	16.9	-47	15.3	9.4	✓
92	-47° 92	0	17.1	-47	27.9	9.7	✓
93	-47° 96	0	17.7	-47	6.0	9.5	✓
94	-46° 117	0	21.5	-46	54.5	9.3	✓
95	-46° 122	0	22.2	-46	33.3	8.3	✓
96	-46 127	0	23.2	-46	22.1	8.5	✓
97	-46° 140	0	25.3	-46	35.4	7.6	✓
98	-45° 142	0	23.1	-45	45.1	9.0	✓
99	-47° 127	0	23.9	-47	22.5	8.9	✓
100	-47° 123	0	23.3	-47	38.0	9.6	✓
101	-47° 132	0	24.5	-47	43.5	8.8	✓
102	-47° 133	0	24.5	-47	33.8	9.4	✓
103	-47° 138	0	25.9	-47	55.0	9.3	✓
104	-47° 144	0	26.3	-47	44.8	9.6	✓
105	-47° 149	0	27.2	-47	38.5	7.1	✓
106	-47° 161	0	29.2	-47	51.3	8.2	✓
107	-47° 163	0	29.7	-47	2.8	9.6	✓
108	-48° 115	0	28.4	-48	22.8	9.0	✓

Corrs made and

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January 19, 1912 (Cont)

13 23761

No.	Class	Int.	Remark
109	K	4	
110	K5	4	
111	York	107	Burned out
112	K5	1	
113	K0	2	
114	K8	2	
115	K0	2	
116	K0	2	
117	K5	4	
118	K0	3	
119	K0	2	
120	K0	4	
121	K5	3	
122	K0	2	
123	K5	4	
124	K5	2	
125	K5	5	
126	K5	4	
127	K	10	Burned out
128	K5	3	
129	K	1	
130	K0	6	
131	Mb	2	
132	K5	2	
133	K0	2	
134	K5	3	Another plate faulty & superposed
135	K	3	
136	K5	4	

Could made out

109	−48° 12.4	0	30.1	−48	15.8	8.1 ✓
110	−47° 16.8	0	31.2	−47	57.1	8.3 ✓
111	−48° 12.1	0	29.7	−48	41.3	8.2 ✓
112	−48° 12.0	0	29.4	−48	38.0	9.2 ✓
113	−49° 13.7	0	30.0	−49	0.3	9.1 ✓
114	−49° 15.4	0	33.1	−49	8.4	9.3 ✓
115	−48° 13.5	0	33.0	−48	49.2	9.3 ✓
116	−48° 14.3	0	34.2	−48	29.7	9.5 ✓
117	−48° 11.8	0	34.9	−48	30.9	8.9 ✓
118	−48° 15.2	0	35.7	−48	49.3	9.2 ✓
119	−48° 15.1	0	35.4	−48	13.9	9.1 ✓
120	−47° 18.7	0	34.1	−47	36.0	8.5 ✓
121	−47° 19.3	0	34.9	−47	30.2	8.3 ✓
122	−47° 19.1	0	33.1	−47	45.6	9.1 ✓
123	−47° 19.9	0	26.7	−47	52.6	7.7 ✓
124	−48° 16.1	0	37.5	−48	11.8	9.5 ✓
125	−48° 16.2	0	37.5	−48	40.3	8.0 ✓
126	−48° 16.4	0	37.8	−48	34.2	8.4 ✓
127	−48° 17.6	0	39.9	−48	14.3	6.2 ✓
128	−49° 17.1	0	38.6	−49	10.3	8.7 ✓
129	−48° 16.7	0	38.2	−48	58.1	9.7 ✓
130	−48° 17.5	0	39.9	−48	59.1	7.9 ✓
131	−48° 18.2	0	41.1	−48	40.0	9.1 ✓
132	−48° 18.4	0	41.4	−48	40.6	9.1 ✓
133	−47° 22.8	0	42.9	−47	48.0	8.7 ✓
134	−48° 17.0	0	43.4	−48	5.8	9.0 ✓
135	−47° 23.3	0	44.2	−47	58.8	9.2 ✓
136	−47° 23.9	0	44.8	−47	49.5	8.6 ✓

−48° 19.1
0 43.5 −48 9.8
3.3 superposed.
The image of this star −48° 19.1 is probably wrong in coma. CPD cat. = 2C Cat. = Plate error. It appears then the preceding star CPD = −48° 19.0.

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January 19, 1912 (cont)

B23761

No.	Class	Int	Remark
137	G	1	
138	G5	3	Another star superposed
139	G	2	
140	G5	2	Difficult
141	K0	3	
142	G	10	Burned out.
143	K2	3	
144	K0	3	
145	A	10	Focus poor
146	mb	5	
147	K	2	
148	K0	3	
149	A5	3	
150	K0	2	
151	F8	3	
152	G5	5	
153	F8	4	
154	K0	3	
Time 11.48	155	Ma	5
Time 12.42	156	F5	2
157	F0	4	
158	G0	2	
159	G0	3	
160	A3	10	Burned out
161	K0	5	
162	A	10	Burned out
163	K0	5	

137								
137	138	-47° 23.1	0	44.0	-47	32.6	9.2 ✓	
138	139	-47° 25.4	0	46.5	-47	58.8	9.5 ✓	-47° 25.2 0 46.5 -47 56.2 9.7 Superposed
139	140	-48° 19.8	0	45.8	-48	29.8	9.2 ✓	
140	141	-48° 20.1	0	47.0	-48	30.2	9.6 ✓	
141	142	-48° 20.6	0	47.5	-48	30.9	9.0 ✓	
142	143	-48° 21.6	0	49.5	-48	4.7	6.8 ✓	
143	144	-48° 2.7	0	8.3	-48	34.5	8.3 ✓	
144	145	-49° 3.6	0	7.5	-49	7.9	8.6 ✓	
145	146	-49° 3.5	0	7.5	-49	22.9	6.9 ✓	
146	147	-49° 4.4	0	9.9	-49	15.1	8.3 ✓	
147	148	-48° 4.0	0	11.6	-48	45.3	8.8 ✓	
148	149	-48° 38	0	15.1	-48	24.3	9.0 ✓	
149	150	-48° 39	0	15.9	-48	25.7	9.1 ✓	
150	151	-47° 8.2	0	15.5	-47	52.0	9.1 ✓	
151	152	-48° 8.9	0	15.1	-48	39.2	9.0 ✓	
152	153	-49° 7.5	0	17.0	-49	2.7	8.0 ✓	
153	154	-49° 6.6	0	15.3	-49	41.2	8.7 ✓	
154	155	-49° 7.4	0	16.7	-49	53.0	9.0 ✓	
155	156	-50° 7.0	0	17.6	-50	3.0	7.9 ✓	
156	157	-49° 8.1	0	19.0	-49	50.2	9.4 ✓	
157	158	-49° 8.3	0	19.8	-49	35.5	9.1 ✓	
158	159	-49° 9.8	0	22.5	-49	1.3	9.1 ✓	
159	160	-48° 10.1	0	24.3	-48	44.5	8.6 ✓	
160	161	-48° 10.2	0	24.4	-48	34.1	8.7 ✓	
161	162	-49° 11.4	0	25.1	-49	19.7	8.0 ✓	
162	163	-49° 11.5	0	25.4	-49	29.6	4.6 ✓	
163		-49° 13.4	0	29.1	-49	37.3	8.6 ✓	

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January 19, 1912 (Cont.)
B23761

No.	Class	Int	Remarks
164	K_5	5	
165	K_0	10	
166	K_0	3	
167	K_0	5	
168	A_2	10	Burned out
169	A	8	
170	A_3	6	
171	7	5	
Trine 12.45	172	A_2	2

173	K_0	4					
174	3	K_5					
175	4	K_5					

164	-49° 138	0	30.1	-49	48.7	8.6v	Comp
165	-49° 141	0	30.6	-49	49.0	6.8v	
166	-50° 144	0	32.8	-50	11.2	8.8 v	
167	-50° 161	0	34.8	-50	16.4	8.4 v	
168	-50° 179	0	38.4	-50	4.4	6.9 v	Made
169	-50° 181	0	38.6	-50	23.4	7.6 v	
170	-49° 190	0	39.5	-49	31.2	7.4 v	
171	-49° 210	0	43.1	-49	16.5	8.1 v	
172	-49° 213	0	43.6	-49	24.0	7.4 v	Out

Ident. by L D W.
Checked by J. C. M. Feb. 14, '12.

173	-48° 226	0	51.9	-48	14	8.6	21 on B12275
174	-47° 289	0	53.2	-47	11	8.8	
175	-47° 294	0	53.8	-47	17	8.9	

nos. 174 & 175 ident in book by J C M. Jan. 29. 1916.

Confirmed by S. R. B. Feb. 2, 1916

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January 23, 1912

Time 11.00 I 37432

No.	Class	Dist.	Remark
1	Y5	5	
2	Y5	4	
3	Ko	7	
4	F5	9	
5	Y0	2	
6	F8	2	
7	G5	7	
8	K	1	
9	Y5	1	
10	Y	2	
11	Q2	2	
12	Ko	3	
13	Y5	2	
14	Ko	3	
15	F5	2	Difficult
16	Y5	6	
17	Ma	6	
18	F5	3	
19	Y0	2	
20	Y	2	
21	Ko	2	
22	Y5	2	
23	Q0	3	Line 4128-31, strong.
24	Y5	10	
25	F0	4	
26	F5	5	
27	K	1	

No.	D. M.		R. A.		Dec.		Mg.	
1	+5	104	0 39	53.8	+5	56.8	6.8	✓
2	+6	105	0 40	46.2	+6	30.8	7.0	✓
3	+6	107	0 41	10.3	+6	45.1	4.5	✓
4	+7	~~114~~ 286	0 42	~~31.1~~ 10.2	+7	9.7	8.4	✓
5	+6	111	0 42	33.4	+6	53.6	8.3	✓
6	+7	119	0 43	24.2	+7	15.1	8.4	✓
7	+4	128 3	0 40	49.4	+4	31.4	6.0	✓
8	+5	109	0 42	10.7	+5	36.2	8.0	✓
9	+6	114	0 42	58.9	+6	18.6	8.5	✓
10	+6	115	0 43	33.8	+6	5.8	8.5	✓
11	+5	187	0 45	9.8	+5	52.2	8.7	✓
12	+6	124	0 47	48.5	+6	3.7	7.7	✓
13	+5	120	0 46	29.4	+5	1.0	8.1	✓
14	+6	131	0 50	26.6	+6	49.5	8.2	✓
15	+6	136	0 51	27.3	+6	55.7	8.6	✓
16	+6	135	0 50	48.6	+6	3.2	7.3	✓
17	+5	131	0 52	17.5	+5	42.0	7.0	✓
18	+6	142	0 52	58.9	+6	34.4	8.2	✓
19	+6	144	0 54	8.9	+6	32.6	8.2	✓
20	+7	146	0 53	40.2	+7	15.2	8.2	✓
21	+7	148 7	0 53	50.5	+7	39.8	8.1	✓
22	+7	151	0 54	35.3	+7	9.6	8.0	✓
23	+6	147	0 55	17.6	+6	42.7	8.0	✓
24	+7	153	0 55	26.0	+7	6.3	4.2	✓
25	+8	158	0 54	58.1	+8	2.1	7.4	✓
26	+8	159	0 55	9.3	+8	2.17	7.2	✓
27	+8	166	0 57	4.4	+8	48.9	8.2	✓

Cards made out

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January 23, 1912 (Cont.)

I 37432

No.	Class	Dur.	Remark
28	K5	2	
29	A3	4	
30	F0	5	
31	A3	3	
32	A0	5	
33	F8	2	
34	F	2	
35	F5	3	Extreme?
36	F0	4	
37	K2	6	
38	F2	7	
39	F0	8	
40	Ma	4	
41	B9	6	
42	B0	3	
43	K5	4	
44	F8	1	
45	F0	10	
46	K0	5	
47	K	1	
48	K5	2	
49	F5	3	
50	F2	5	
51	G	2	E
52	G	3	E
53	F	3	E
54	F	2	

No.	D.m.	R.A.	Dec.	mg.	
28	+7 164	0 0 7	50.7 +7	33.1	8.2 v
29	+8 173	0 5 9	8.3 +8	5.7	7.5 v
30	+7 167	0 5 9	0.9 +7	34.8	7.2 v
31	+7 169	0 5 9	26.7 +7	5 2.5	8.2 v
32	+5 141	0 5 6	10.1 +5	57.1	7.2 v
33	+6 155	0 5 7	16.7 +6	14.4	7.8 v
34	+4 109	0 5 5	2.9 +4	58.0	8.5 v
35	+4 155	0 5 3	21.8 +4	2.5	8.0 v
36	+4 166	0 5 6	12.3 +4	26.8	7.4 v
37	+4 172	0 5 7	23.0 +4	52.4	6.0 v
38	+4 175	0 5 8	20.8 +4	8.4	6.7 v
39	+4 190	0 0	53.3 +4	52.5	6.0 v
40	+9 132	1 0	46.7 +9	8.2	6.5 v
41	+8 177	1 1	22.0 +8	58.1	7.5 v
42	+8 183	1 3	18.7 +8	46.4	7.2 v
43	+9 138	1 3	5 3.6 +9	32.1	7.0 v
44	+6 164	1 1	18.5 +6	44.6	8.7 v
45	+6 174	1 6	10.4 +6	49.2	5.2 v
46	+6 181	1 7	9.9 +6	14.0	6.2 v
47	+6 185	1 8	1.1 +6	10.9	8.2 v
48	+8 187	1 6	6.5 +8	12.5	8.2 v
49	+8 192	1 7	15.8 +8	58.2	7.7 v
50	+9 142	1 8	12.4 +9	0.9	7.0 v
51	+8 197	1 8	3.8 +8	0.1	8.5 v
52	+9 146	1 9	37.5 +9	58.8	7.8 v
53	+8 110	0 40	39.3 +8	25.7	7.7 v
54	+9 97	0 43	1.7 +9	36.4	8.5 v

Counts made out

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January 23, 1912 (Cont.)

I 37432

No	Class	Int.	Remarks
55	78	2	
56	70	4	
57	K	2	
58	78	1	Poor focus
59	70	2	
60	95	2	
61	9	1	
62	95	1	
63	70	4	
64	75	3	
65	75	3	
66	70	5	
67	72	4	
68	75	6	
69	78	4	
70	95	7	
71	70	5	
72	A	5	E
73	95	4	
74	7	2	
75	95	6	
June 11.18	76	72	4

No.	Q.M.		R.A.		Dec.		Mg.	
55	+9	97	0	44	34.2	+9	47.4	8.3 ✓
56	+8	126	0	47	13.1	+8	38.7	7.8 ✓
57	+8	130	0	49	1.0	+8	26.5	8.0 ✓
58	+8	136	0	49	56.1	+8	49.1	8.4 ✓
59	+8	147	0	53	8.2	+8	42.3	8.2 ✓
60	+8	153	0	54	9.0	+8	57.3	8.0 ✓
61	+9	126	0	54	22.0	+9	18.1	8.5 ✓
62	+10	162	0	53	37.7	+10	23.4	8.2 ✓
63	+11	138	0	53	45.7	+11	8.4	8.0 ✓
64	+11	139	0	53	45.9	+11	8.2	8.0 ✓
65	+10	123	0	57	34.3	+10	32.8	8.0 ✓
66	+10	128	0	57	29.0	+10	46.9	7.6 ✓
67	+11	152	1	1	38.8	+11	14.2	8.2 ✓
68	+11	158	1	4	42.3	+11	31.1	6.8 ✓
69	+10	144	1	5	31.3	+10	55.1	8.3 ✓
70	+11	96	0	39	28.4	+11	11.7	5.2 ✓
71	+11	106	0	44	0.1	+11	57.9	7.0 ✓
72	+12	164	0	44	54.4	+12	51.6	7.3 ✓
73	+12	119	0	50	18.7	+12	56.1	6.0 ✓
74	+11	142	0	57	57.1	+11	40.5	8.3 ✓
75	+12	185	0	58	57.3	+12	9.9	6.2 ✓
76	+12	165	0	58	57.8	+12	6.6	7.8 ✓

Identified by C.L.A. Jan. 27, 1912
checked by A.D.W. Jan. 29, 1912.

Cards made Jan

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January 23, 1912

Prince 1153

I 37879 Badly scratched

No.	Class	Dist.	Remark
1	Ao	10	
2	f2	4	
3	f8	3	
4	A2	4	
5	f5	5	
6	g5	3	e
7	g5	2	
8	K	2	
9	f8	3	
10	f5	6	
11	f5	8	
12	A3	3	e
13	K2	3	
14	f5	3	
15	K	2	
16	g5	4	
17	A2	4	
18	A3	3	Poor focus
19	f2	6	
20	f8	4	
21	f5	2	Difficult
22	f2	3	
23	A3	6	Prince 4128-31 seems bet. fainter than K
24	K	1	
25	g5	2	
26	g.	2	
27	A5	6	

No.	Dm.		R.A.		Dec.		Mg.	
1	+6	64	0 24	55.4	+6	9.3	6.2	✓
2	+5	69	0 26	40.0	+5	9.2	8.1	✓
3	+6	72	0 27	38.6	+6	55.6	8.2	✓
4	+6	75	0 28	28.4	+6	49.2	8.3	✓
5	+6	76	0 28	33.8	+6	21.3	7.8	✓
6	+8	80	0 28	54.9	+8	5.0	7.9	✓
7	+7	83	0 30	54.7	+7	48.1	8.0	✓
8	+7	86	0 31	30.1	+7	6.7	8.5	✓
9	+6	85	0 31	37.1	+6	46.6	8.7	✓
10	+7	90	0 32	12.5	+7	19.3	8.1	✓
11	+8	94	0 33	42.9	+8	33.5	7.0	✓
12	+8	101	0 35	32.4 34.8	+8	7 46.4 13.4	6 8.5	✓
13	+6	94	0 36	22.6	+6	40.4	8.7	✓
14	+6	95	0 36	58.5	+6	58.4	8.7	✓
15	+6	97	0 37	13.3	+6	49.5	8.5	✓
16	+7	104	0 38	10.7	+7	3.3	8.0	✓
17	+8	110	0 40	39.3	+8	25.7	7.7	✓
18	+6	99	0 38	15.0	+6	6.1	9.0	✓
19	+5	102	0 38	37.5	+5	17.6	8.5	✓
20	+4	80	0 29	28.8	+4	57.2	8.2	✓
21	+5	85	0 31	6.9	+5	14.5	9.0	✓
22	+4	94	0 34	12.0	+4	45.9	8.7	✓
23	+4	99	0 35	54	+4	53.1	8.0	✓
24	+6	91	0 35	29.4	+6	1.9	8.6	✓
25	+5	95	0 35	47.4	+5	46.6	8.6	✓
26	+5	96	0 36	2.4	+5	22.3	8.5	✓
27	+4	109	0 37	36.1	+4	22.0	8.2	✓

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January 23, 1912 (Cont.)
I 37379

No.	Class	Int.	Remark
28	K	2	
29	F5	3	
30	K	2	
31	K0	7	
32	F8	4	
33	F0	6	
34	F	1	Difficult
35	F0	4	
36	F8	5	Focus poor
37	F5	6	E
38	F0	4	
39	F5	3	
40	G3	5	
41	F	2	Difficult
42	G5	5	
43	F5	4	
44	F0	5	
45	K0	5	
46	K0	3	
47	G0	5	
48	G5	3	
49	G5	3	
50	F8	4	
51	K	2	
52	G	2	Poor focus
53	F0	5	
54	Ma	3	

No	D.M.		R.A.		Dec.		Mag.	
28	+4°	113	0h	38m	35.5s	+4°	29.5	8.7 ✓
29	+4°	117	0h	39m	17.4s	+4°	33.4	8.5 ✓
30	+4°	118	0h	39m	19.9s	+4°	2.2	8.6 ✓
31	+4°	123	0h	40m	49.4s	+4°	31.4	6.0 ✓
32	+3°	115	0h	44m	26.9s	+3°	15.8	8.6 ✓
33	+3°	120	0h	45m	37.6s	+3°	18.1	7.3 ✓
34	+4°	133	0h	45m	41.5s	+4°	12.7	8.8 ✓
35	+3°	131	0h	50m	48.6s	+3°	30.0	8.2 ✓
36	+3°	133	0h	51m	14.6s	+3°	26.5	8.0 ✓
37	+4°	63	0h	22m	43.5s	+4°	3.0	7.0 ✓
38	+4°	66	0h	24m	23.5s	+4°	1.9	8.0 ✓
39	+4°	73	0h	26m	12.7s	+4°	7.5	8.4 ✓
40	+2°	62	0h	24m	16.3s	+2°	33.7	8.3 ✓
41	+3°	59	0h	24m	29.9s	+3°	4.3	8.5 ✓
42	+2°	67	0h	26m	27.9s	+2°	31.3	7.8 ✓
43	+3°	69	0h	27m	48.8s	+3°	17.4	8.5 ✓
44	+3°	70	0h	28m	3.4s	+3°	27.5	7.8 ✓
45	+2°	80	0h	30m	3.8s	+2°	20.2	6.8 ✓
46	+1°	108	0h	30m	36.0s	+1°	57.4	7.5 ✓
47	+2°	~~107~~ 84	0h	31m	39.5s	+2°	19.0	7.5 ✓
48	+2°	86	0h	32m	21.2s	+2°	50.8	7.8 ✓
49	+3°	86	0h	33m	23.4s	+3°	40.8	8.0 ✓
50	+3°	93	0h	34m	58.9s	+3°	22.3	7.3 ✓
51	+2°	88	0h	33m	35.2s	+2°	48.5	8.3 ✓
52	+3°	94	0h	35m	15.6s	+3°	1.2	8.7 ✓
53	+1°	125	0h	35m	58.0s	+1°	47.8	7.8 ✓
54	+2°	97	0h	37m	27.7s	+2°	24.3	7.7 ✓

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January 23, 1912 (Cont.)

I 37379

No.	Class	Dist.	Remark
55	Fo	5	
56	G	2	Poor focus
57	Fo	5	
58	F8	2	
59	Ko	3	
60	G	2	
61	Fo	6	
62	G5	7	
63	K	2	The following of two stars.
64	F5	6	
65	G5	3	
66	F5	2	
June 12.08 67	Ko	5	2
~~68~~			
~~69~~			
~~70~~			

No	D. M.	R.A.	Dec.	Mg.
55	+1 12.4	0 35 51.8	+1 15.7	7.8 v
56	+1 12.6	0 36 2.8	+1 31.0	8.3 ✓
57	+0 10.3	0 34 8.7	+0 57.0	7.9 ✓
58	+0 10.8	0 35 13.2	+0 54.0	8.0 v
59	+1 13.1	0 37 38.7	+0 6.3	8.2 v
60	+2 10.5	0 40 19.4	+2 6.5	8.3 v
61	+1 14.9	0 43 37.6	+1 57.6	7.3 v
62	+2 11.8	0 43 50.6	+2 35.4	6.2 ✓
63	+0 10.6	0 34 ~~37.5~~ 44.0	+0 ~~14.3~~ 15.7	8.2 v
64	−0 10.9	0 37 44.0	−0 31.7	6.8 ✓
65	−0 11.0	0 38 28.2	−0 15.2	7.8 v
66	−0 11.3	0 39 27.7	−0 25.0	7.8 v
67	−1 10.4	0 42 31.7	−1 2.3	7.0 v

Identified by C. L. A. Feb. 13, 1912

Checked by J. C. M. Feb. 14, '12.

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January 24 1912

I 37466

Time 12.16

No	Class	Int.	Remarks
1	K	3	E Four faces
2	K	2	E
3	F	9	Four faces
4	Ko	4	
5	Ko	4	
6	G	7	
7	Ko	7	
8	F8	7	
9	F8	3	
10	Fo	6	
11	Ao	10	
12	Ko	4	
13	A5	6	
14	G5	6	
15	Ko	4	
16	A5	4	
17	A2	8	
18	K	2	
19	F5	4	
20	F5	8	
21	Ko	3	
22	F5	7	
23	Ao	4	
24	Ko	5	
25	A5	4	E
26	Ko	6	
27	K2	4	

1	+0° 159	0	52.0	+0	0.1	7.8 ✓
2	+1° 185	0	52.7	+1	50.6	7.5 ✓
3	+0° 174	0	56.4	+0	34.8	6.0 ✓
4	+1° 208	0	57.3	+1	32.4	7.3 ✓
5	+2° 155	0	58.6	+2	29.3	8.0 ✓
6	+1° 212	1	0.6	+1	14.2	7.0 ✓
7	+1° 221	1	3.2	+1	39.4	6.0 ✓
8	+1° 223	1	5.1	+1	41.6	6.8 ✓
9	+1° 229	1	6.3	+1	48.2	8.5 ✓
10	+1° 238	1	9.1	+1	57.8	7.8 ✓
11	+2° 185	0	10.3	+2	51.2	5.5 ✓
12	+2° 190	0	11.9	+2	30.7	8.0 ✓
13	+1° 243	1	10.8	+1	47.2	8.5 ✓
14	+1° 241	1	9.7	+1	15.4	7.8 ✓
15	+1° 242	1	9.9	+1	5.1	8.2 ✓
16	+0° 215	1	10.3	+0	24.5	7.8 ✓
17	+0° 210	1	8.2	+0	8.8	6.8 ✓
18	+0° 197	1	5.0	+0	13.4	8.5 ✓
19	+0° 198	1	5.6	+0	18.6	8.5 ✓
20	−1° 162	1	7.4	−1	44.6	5.8 ✓
21	−1° 167	1	11.2	−1	37.1	8.0 ✓
22	−1° 171	1	12.4	−1	17.8	5.8 ✓
23	−2° 198	1	13.5	−2	4.3	7.3 ✓
24	−1° 179	1	15.2	−1	12.4	7.2 ✓
25	−1° 182	1	17.3	−1	44.0	7.8 ✓
26	−1° 189	1	19.0	−1	10.0	7.2 ✓
27	+0° 223	1	15.2	+0	58.3	6.5 ✓

Wray Mail

Eq

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January 24, 1912 (Cont)
I 3746

No.	Class	Int.	Remark
28	G	2	
29	G5	5	
30	Q0	7	
31	F0	6	
32	B8	7	Burned out.
33	K0	2	
34	A5	3	2
35	G	4	
36	F5	2	
37	K0	2	
38	G0	4	
39	F0	3	
40	F	2	
41	Q2	5	
42	F8	3	
43	G5	4	
44	Ma	3	
45	F0	7	
46	G5	6	
47	Q2	4	
48	G	4	
49	G0	7	
50	F0	10	
Jan. 12:27	51	K0	6

28	-0° 2i0	i	15.4	-0	2.3	8.0	✓
29	+0° 233	i	17.9	+0	43.0	8.0	✓
30	+2° 204	i	17.4	+2	36.3	7.8	✓
31	+2° 207	i	18.2	+2	12.1	7.5	✓
32	+2° 211	i	19.4	+2	46.5	7.0	✓
33	+3° 199	i	19.8	+3	2.9	8.2	✓
34	+3° 200	i	20.0	+3	42.2	9.0	✓
35	+4° 212	i	6.3	+4	21.7	8.1	✓
36	+3° 175	i	7.2	+3	49.7	8.5	✓
37	+4° 216	i	9.2	+4	16.9	8.2	✓
38	+3° 179	i	9.8	+3	54.6	8.2	✓
39	+3° 178	i	9.8	+3	37.4	8.5	✓
40	+3° 182	i	11.2	+3	20.8	8.8	✓
41	+3° 184	i	11.4	+3	53.2	8.3	✓
42	+4° 219	i	11.6	+4	15.5	8.5	✓
43	+5° 165	i	10.1	+5	7.2	8.3	✓
44	+5° 168	i	12.2	+5	24.6	8.7	✓
45	+4° 230	i	14.9	+4	29.4	8.0	✓
46	+3° 190	i	15.2	+3	59.0	7.5	✓
47	+4° 240	i	16.3	+4	33.2	8.7	✓
48	+4° 248	i	17.6	+4	41.8	8.5	✓
49	+4° 251	i	20.1	+4	36.8	8.0	✓
50	+6° 174	i	6.2	+6	49.2	5.2	✓
51	+6° 181	i	7.2	+6	14.0	6.2	✓

175 superposed.

Identified by J. C. M. Feb. 16, '12
Checked by A. S. H. Feb. 20, '12.

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January 24, 1912

Time 12.31 — I 374 2.3

No.	Class	Int.	Remark
1	A5	5	
2	F8	6	
3	G	4	e
4	Q3	4	e
5	K	5	e
6	F	7	e
7	K	2	e
8	K0	3	
9	F5	2	Focus poor.
10	K0	7	e
11	G	6	Poor focus
12	Q3	4	
13	G5	5	
14	F8	4	
15	K0	21	
16	F5	21	
17	F5	3	
18	K2	3	
19	G	1	
20	F8	5	
21	K	3	
22	K0	6	
23	F0	8	
24	G	3	
25	F5	4	
26	F8	4	
27	F8	5	

1	+3° 131	0	50.8	+3	30.0	8.2 ✓
2	+3° 133	0	51.2	+3	26.5	8.0 ✓
3	+4° 155	0	53.4	+4	2.5	8.0 ✓
4	+4° 166	0	56.2	+4	26.8	7.4 ✓
5	+4° 172	0	57.4	+4	52.4	6.0 ✓
6	+4° 175	0	58.3	+4	8.4	6.7 ✓
7	+3° 155	0	58.2	+3	26.2	8.0 ✓
8	+2° 155	0	58.6	+2	29.3	8.0 ✓
9	+3° 159	0	59.4	+3	2.3	8.5 ✓
10	+1° 221	1	3.2	+1	39.4	6.0 ✓
11	+1° 212	0'	0.6	+1	14.2	7.0 ✓
12	+0° 148	0	49.8	+0	35.5	8.0 ✓
13	+0° 149	0	50.2	+0	59.6	7.0 ✓
14	+1° 176	0	50.3	+1	18.2	7.8 ✓
15	+1° 177	0	50.5	+1	40.9	7.8 ✓
16	+1° 180	0	51.6	+1	51.9	8.7 ✓
17	+2° 141	0	52.4	+2	31.5	8.7 ✓
18	+1° 185	0	52.7	+1	50.6	7.5 ✓
19	+1° 187	0	53.4	+1	48.5	8.5 ✓
20	+1° 191	0	54.5	+1	44.7	8.0 ✓
21	+2° 149	0	56.0	+2	27.4	8.0 ✓
22	+1° 203	0	57.3	+1	32.4	7.3 ✓
23	+0° 174	0	56.4	+0	34.8	6.0 ✓
24	+1° 205	0	58.3	+1	41.4	8.5 ✓
25	+0° 185	0	59.8	+0	26.2	8.3 ✓
26	−1° 141	0	58.8	−1	2.3	8.1 ✓
27	−1° 144	0	59.0	−1	31.7	8.0 ✓

Cloudy, hazy

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January 24, 1912 (cont)

I 37423

No.	Class	Int	Remark
28	F5	8	
29	F8	4	Poor focus
30	G2	3	
31	G5	6	E
32	G	4	E
33	G	3	E
34	K	2	E
35	G	3	E
36	F8	6	
37	G5	4	
38	F5	3	
39	K	2	
40	K0	3	
41	G0	3	
42	K0	6	
43	G0	2	
44	K	2	
45	G0	4	
46	K5	10	
47	G	2	Poor focus
48	G5	3	
49	K0	3	
50	G0	3	
51	G5	4	
52	K0	4	
53	F5	5	
54	G0	3	The following 4 of two

28	−2°	16′0	0°	59′.8	−2	30′.2	6.8 ✓
29	−2°	16′7	0°	1′.1	−2	50′.4	8.0 ✓
30	−3°	15′3	1°	0′.3	−3	31′.0	8.0 ✓
31	−1°	7′5	0°	30′.7	−1	18′.7	6.8 ✓
32	−2°	8′4	0°	31′.9	−2	45′.8	8.2 ✓
33	−2°	8′7	0°	33′.1	−2	33′.9	8.3 ✓
34	−2°	9′1	0°	33′.8	−2	18′.5	8.6 ✓
35	−2°	9′3	0°	34′.1	−2	5′.3	8.6 ✓
36	−0°	10′9	0°	37′.7	−0	31′.7	6.8 ✓
37	−0°	11′0	0°	38′.5	−0	13′.2	7.8 ✓
38	−0°	11′3	0°	39′.5	−0	25′.0	7.8 ✓
39	−1°	10′1	0°	40′.6	−1	3′.5	8.3 ✓
40	−1°	10′2	0°	41′.0	−1	17′.3	8.0 ✓
41	−0°	11′5	0°	41′.1	−0	24′.4	7.8 ✓
42	−1°	10′4	0°	42′.5	−1	2′.3	7.0 ✓
43	−0°	12′3	0°	43′.3	−0	51′.9	8.5 ✓
44	−0°	12′2	0°	43′.1	−0	17′.6	8.4 ✓
45	−1°	11′3	0°	45′.5	−1	9′.9	8.3 ✓
46	−1°	11′4	0°	45′.6	−1	55′.6	8.2 ✓
47	+1°	15′8	0°	46′.2	+1	7′.0	8.5 ✓
48	+0°	14′2	0°	47′.6	+0	0′.4	7.9 ✓
49	−0°	13′9	0°	48′.1	−0	45′.9	7.6 ✓
50	−0°	14′5	0°	49′.6	−0	20′.0	8.1 ✓
51	−0°	14′6	0°	49′.8	−0	27′.0	7.5 ✓
52	+0°	15′9	0°	52′.0	+0	0′.1	7.8 ✓
53	−1°	12′4	0°	52′.0	−1	28′.2	7.7 ✓
54	−x°	12′5	0°	52′.2	−x	57′.2	8.8 ✓

Under Wide Ex

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January 24, 1912 (Cont)

I 37423

No.	Class	Dist.	Remark
55	F5	6	
56	Mt	4	
57	G	3	Poor focus
58	F8	5	
59	K2	4	Poor focus
60	A3	3	
61	G	4	Poor focus
62	A0	5	
63	G5	5	E
64	A	2	E
65	F0	4	
66	F0	6	
67	G5	6	
68	G5	3	
Zone 12.45	69	K	2

cont. 135, 156

55	-2° 136	0	52.7	-2	47.9	7.4 ✓
56	-2° 140	0	53.3	-2	26.1	7.4 ✓
57	-1° 91	0	38.3	-1	59.0	8.3 ✓
58	-2° 106	0	39.6	-2	2.7	8.5 ✓
59	-3° 99	0	40.2	-3	6.6	7.0 ✓
60	-2° 111	0	41.9	-2	24.5	8.5 ✓
61	-2° 112	0	43.4	-2	42.4	8.4 ✓
62	-3° 113	0	44.2	-3	56.0	7.3 ✓
63	-5° 147	0	46.3	-5	18.4	6.5 ✓
64	-4° 112	0	48.3	-4	46.8	8.7 ✓
65	-4° 114	0	48.7	-4	31.3	7.3 ✓
66	-3° 132	0	49.4	-3	30.9	7.0 ✓
67	-2° 131	0	50.4	-2	32.6	6.5 ✓
68	-2° 132	0	51.1	-2	26.4	8.2 ✓
69	-3° 136	0	51.7	-3	14.1	7.8 ✓

Identt. by J. C. M. Feb. 14, '12.
Checked by A. D. H. Feb. 20, '12.

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