

Thurs. May 6, 1913.

Time: 11.35

138 198 long disp.

No.	Int.	Class	Remarks
1	3	H ₂ E.	
2	2	Q ₀	
3	1	H ₅	
4	3	H ₀	
5	2	Q ₂	
6	1	Ma	Near a bright star.
7	2	H ₂	
8	1	H ₀	
9	1	H ₂	
10	4	H ₅	
11	1	H ₅	
12	1	H ₀	
13	1	H ₅	
14	1	H ₂	
15	2	H ₅	
16	1	H ₅	
17	4	Q ₂	
18	2	Q ₀	
19	4	H ₀	
20	1	H ₅	
21	1	H ₅	
22	3	H ₀	
23	1	H ₂	
24	4	H ₂	
25	3	H ₅	
26	4	H ₀ E.	
27	5	H ₅ E.	

1 +8°	211.6	8	39.5 +8	7.6	8.2	✓
2 +8°	212.6	8	42.0 +8	4.8	9.0	✓
3 +8°	213.6	8	45.5 +8	19.9	8.7	✓
4 +7°	204.6	8	47.9 +7	31.8	5.6	✓
5 +9°	208.5	8	47.0 +9	6.7	9.0	✓
6 +9°	209.2	8	49.9 +9	50.0	8.3	✓
7 +10°	191.1	8	50.8 +10	0.7	8.5	✓
8 +8°	214.4	8	50.1 +8	31.2	9.0	✓
9 +8°	214.6	8	50.1 +8	37.5	8.7	✓
10 +7°	205.5	8	51.6 +7	58.8	8.4	✓
11 +7°	205.8	8	52.2 +7	42.1	9.0	✓
12 +8°	215.2	8	52.2 +8	12.5	9.0	✓
13 +8°	215.0	8	51.9 +8	59.3	9.0	✓
14 +9°	210.5	8	53.0 +9	6.4	8.9	✓
15 +9°	210.7	8	53.1 +9	36.5	8.8	✓
16 +9°	210.8	8	53.4 +9	24.3	9.4	✓
17 +9°	211.2	8	54.8 +9	2.9	8.2	✓
18 +8°	215.9	8	57.2 +8	23.7	9.0	✓
19 +8°	216.4	8	59.2 +8	54.6	8.2	✓
20 +9°	212.4	9	0.4 +9	27.9	8.8	✓
21 +9°	212.5	9	1.0 +9	6.8	9.1	✓
22 +8°	217.4	9	2.3 +8	6.5	8.2	✓
23 +9°	212.9	9	3.4 +9	19.7	8.9	✓
24 +9°	213.3	9	3.7 +9	33.9	6.8	✓
25 +8°	218.6	9	6.0 +8	12.6	8.5	✓
26 +8°	219.7	9	9.8 +8	58.2	7.8	✓
27 +8°	219.9	9	10.2 +8	33.4	7.2	✓

cards made out

Thursday, Mar. 1, 1913.

No. I 3819 & long disp.

No. Int. Class Remark

28 2 G5 E

29 1 G5

30 2 G2

31 1 G2

32 2 G0

33 1 G5

34 2 G5

35 3 G0

36 4 G2

37 1 G5

38 4 G2

39 3 G0

40 1 G5

41 3 G5

42 3 G2

43 1 G5

44 5 G0

45 2 G0

46 3 G0

47 1 G1

48 3 G2 C.

49 2 G5

50 2 Ma

51

52

53

54 1 G2

55 1 G5

30.57
52

Circ. 135, 40

28 +8°	2200	9	10.4 +8	50.8	8.0	Λ✓
29 +10°	1913	8	50.9 +10	29.7	8.5	Λ✓
30 +10°	1919	8	52.1 +10	49.9	9.2	Λ✓
31 +11°	1956	8	52.2 +11	11.9	9.0	Λ✓
32 +11°	1961	8	53.5 +11	17.5	8.7	Λ✓
33 +10°	1923	8	53.5 +10	32.7	8.8	Λ✓
34 +10°	1928	8	54.4 +10	40.6	8.7	Λ✓
35 +10°	1933	8	55.5 +10	52.3	8.5	Λ✓
36 +10°	1934	8	53.9 +10	27.0	8.3	Λ✓
37 +11°	1972	8	55.8 +11	13.3	9.0	Λ✓
38 +11°	1976	8	56.7 +11	25.2	7.8	Λ✓
39 +11°	1974	8	56.1 +11	43.9	8.5	Λ✓
40 +12°	1961	8	56.9 +12	7.4	9.0	Λ✓
41 +12°	1963	8	57.1 +12	8.1	8.7	Λ✓
42 +12°	1951	8	57.7 +12	30.0	8.5	Λ✓
43 +13°	2020	8	57.1 +13	16.2	9.0	Λ✓
44 +13°	2028	8	52.9 +13	7.9	8.1	Λ✓
45 +13°	2030	8	53.1 +13	5.6	9.1	Λ✓
46 +14°	2007	8	50.8 +14	48.3	8.3	Λ✓
47 +13°	2019	8	51.0 +13	31.8	9.0	Λ✓
48 +15°	1960	8	53.5 +15	45.8	8.1	Λ✓
49 +15°	1962	8	54.0 +15	9.8	8.7	Λ✓
50 +14°	2018	8	55.3 +14	44.9	8.0	Λ✓

Identified by AMSC. July 1, 1913
Checked Nov. 21, 1913

Cards made out by B.R.O.

Cards checked by AMSC

✓ 57 +6° 2071

✓ 52 +6° 2074

8 49.9 +6 27

8 53.3 +6 35

112 m 137606

P.P. 122

Thursday, Nov. 6, 1913.

Time 11.46

I 38283 long exp.

No. Int. Class Remark

1	3	J ₀	
2	10	J ₃₉	
3	3	J ₀	
4	7	J ₀	
5	2	A ₀	
6	1	J ₅	
7	2	A ₂	
8	1	J ₀	
9	2	J ₅	
10	3	J ₅	
11	2	J ₀	
12	1	F	
13	3	A ₂	
14	2	J ₁₂	
15	1	F	
16	5	A ₂	
17	3	A ₀	
18	2	J ₀	
19	5	J ₀	
20	3	A ₀	C.
21	1	J ₂	
22	1	J ₀	
23	3	J ₀	
24	2	J ₀	
25	3	A ₂	
26	2	J ₂	
27	3	J ₅	

1	+10°	19.40	8	59.4	+10	13.9	8.0	✓
2	+11°	19.74	8	59.9	+11	14.0	5.5	✓
3	+12°	19.73	9	0.3	+12	21.9	7.5	✓
4	+12°	19.79	9	1.9	+12	9.5	7.0	✓
5	+12°	19.81	9	2.4	+12	22.0	8.5	✓
6	+11°	19.88	9	1.3	+11	24.5	8.8	✓
7	+10°	19.44	9	1.9	+10	21.1	8.8	✓
8	+10°	19.45	9	1.9	+10	46.9	8.7	✓
9	+12°	19.44	9	2.0	+12	20.4	8.5	✓
10	+11°	19.96	9	5.1	+11	15.4	8.0	✓
11	+10°	19.56	9	5.6	+10	53.9	7.8	✓
12	+11°	19.98	9	5.8	+11	43.9	9.0	✓
13	+12°	19.95	9	6.6	+12	11.6	8.5	✓
14	+12°	19.97	9	6.8	+12	5.5	8.3	✓
15	+11°	20.03	9	7.4	+11	48.8	8.9	✓
16	+10°	19.65	9	8.0	+10	58.5	7.8	✓
17	+9°	21.51	9	9.9	+9	58.2	8.2	✓
18	+9°	21.58	9	11.4	+9	41.6	7.8	✓
19	+10°	19.72	9	11.7	+10	24.2	7.2	✓
20	+8°	22.05	9	12.2	+8	47.8	8.5	✓
21	+10°	19.80	9	12.6	+10	10.0	8.5	✓
22	+9°	21.75	9	16.8	+9	59.7	8.4	✓
23	+10°	19.91	9	17.0	+10	9.0	8.5	✓
24	+10°	19.92	9	17.4	+10	6.0	8.1	✓
25	+11°	20.35	9	17.2	+11	2.4	8.4	✓
26	+11°	20.36	9	17.9	+11	11.9	8.7	✓
27	+11°	20.33	9	16.9	+11	33.8	8.3	✓

Cards made out

Thursday, Mar. 6, 1913

I 35253 long exp.

No. Int. Class Remark

28	2	H ₀	
29	2	H ₂	
30	2	H ₀	E.
31	2	H ₀	E.
32	1	H ₁	E.
33	9	A ₀	
34	2	H ₀	
35	5	A ₂	
36	2	H ₀	
37	2	H ₅	
38	4	F ₀	
39	1	H ₀	
40	2	H ₀	
41	2	H ₂	
42	3	H ₀	
43	2	F ₂	Partly superposed on 42.
44	7	F ₅	
45	2	G ₅	
46	2	H ₂	
47	1	H ₀	
48	1	H ₅	
49	1	H ₀	
50	1	L ₇	
51	3	L ₀	
52	2	L ₅	
53	3	L ₀	
54	1	L ₇	

28	+11°	2039	9	19.7	+11	30.7	8.3	✓
29	+10°	2002	9	20.3	+10	30.9	8.2	✓
30	+12°	2043	9	20.7	+12	35.3	8.5	✓
31	+12°	2049	9	23.2	+12	29.9	8.8	✓
32	+13°	2101	9	23.3	+13	16.2	9.5	✓
33	+12°	2009	9	10.0	+12	6.5	7.0	✓
34	+11°	2008	9	11.1	+11	18.6	8.3	✓
35	+11°	2009	9	11.1	+11	33.5	8.0	✓
36	+11°	2014	9	12.7	+11	34.9	8.5	✓
37	+12°	2020	9	12.6	+12	8.2	8.9	✓
38	+12°	2021	9	13.1	+12	34.5	8.5	✓
39	+12°	2022	9	13.1	+12	32.3	9.0	✓
40	+12°	2023	9	13.4	+12	51.5	8.5	✓
41	+12°	2024	9	13.5	+12	57.9	8.6	✓
42	+13°	2079	9	14.3	+13	11.5	8.7	✓
43	+12°	2026	9	14.3	+12	53.7	9.2	✓
44	+13°	2074	9	13.4	+13	43.2	7.0	✓
45	+14°	2087	9	16.1	+13	8.4	8.7	✓
46	+11°	2029	9	16.3	+11	10.2	8.3	✓
47	+13°	2089	9	18.8	+13	7.2	9.1	✓
48	+14°	2092	9	17.4	+14	49.1	9.0	✓
49	+15°	2043	9	17.2	+15	26.9	9.1	✓
50	+15°	2046	9	18.6	+15	44.7	9.0	✓
51	+15°	2048	9	18.8	+15	33.7	8.2	✓
52	+16°	1964	9	19.7	+16	22.7	8.7	✓
53	+15°	2055	9	20.4	+15	48.3	8.5	✓
54	+16°	1974	9	21.4	+16	0.8	8.6	✓

cards made out

Thursday, March 1913.

I 38283 long exp.

No.	Int.	Class	Remark
55	1	ly E.	
56	3	ly E.	
57	3	ly E.	
58	1	ly E.	
59	1	ly E.	
60	1	ly E.	
61	1	ly E.	
62	5	ly E.	
63	2	ly E.	
64	1	ly E.	
65	1	ly E.	
66	1	ly E.	
67	2	ly E.	
68	3	ly E.	
69	3	ly E.	
70	1	ly E.	
71	2	ly E.	
72	2	ly E.	
73	1	ly E.	
74	1	ly E.	
75	1	ly E.	
76	2	ly E.	
77	3	ly E.	3.6, 10.
78	3	ly E.	
79	2	ly E.	
80	1	ly E.	
81	3	ly E.	

55	+15°	2061	8.9	22.5	+15	33.9	8.6	✓
56	+15°	2062	9.	22.6	+15	54.4	8.2	✓
57	+18°	2207	9	21.5	+18	15.8	7.5	✓
58	+17°	2092	9	21.0	+17	44.5	8.5	✓
59	+17°	2090	9	19.9	+17	27.2	8.7	✓
60	+17°	2089	9	19.7	+17	30.6	8.7	✓
61	+16°	2084	8.9	18.6	+17	19.3	8.0	✓
62	+13°	2036	8.	57.0	+13	54.6	7.8	✓
63	+14°	2024	8.	57.0	+14	20.0	8.8	✓
64	+14°	2025	8.	57.2	+14	50.1	8.8	✓
65	+15°	1975	8.	57.6	+15	22.8	8.9	✓
66	+15°	1976	8.	58.2	+15	4.6	9.0	✓
67	+15°	1980	8.	59.8	+15	15.0	9.1	✓
68	+14°	2023	8.9	0.1	+14	36.9	7.7	✓
69	+15°	1990	9	1.9	+15	2.7	8.5	✓
70	+14°	2041	9	2.7	+14	51.0	8.9	✓
71	+13°	2048	8.	1.6	+13	85.7	8.3	✓
72	+13°	2040	8.	58.8	+13	49.2	8.8	✓
73	+12°	1960	8.	56.6	+12	47.4	8.8	✓
74	+12°	1971	8.	59.7	+12	9.2	9.2	✓
75	+13°	2050	8.9	2.9	+13	8.2	9.0	✓
76	+13°	2051	9	3.5	+13	27.8	8.5	✓
77	+14°	2045	9	5.8	+14	47.5	8.8	✓
78	+14°	2057	9	8.1	+14	44.1	8.3	✓
79	+14°	2062	9	9.9	+14	15.4	8.8	✓
80	+13°	2066	9	9.4	+13	40.8	8.7	✓
81	+12°	2014	9	11.0	+12	55.9	8.7	✓

condo made out

Thursday Jan. 6, 1913.

I 38883 long disp.

No.	Int.	Class	Remarks
82	1	A	Superficial on 82 from H to violet.
83	2	F5	
84	2	F6	(Many belongs to polar sequence)
72-76	85	1	F6
	86	1	G5
	87	2	G2
	88	1	G5
	89	1	G6
	90	1	F6
12, 12	91	1	G5
92			
93			

92	2	G5
93	2	G5
94	3	G6
95	2	G2
96	2	G0
97	2	G0
98	4	G5
99	3	G2
100	5	G3
101	4	G2
102	3	F18
103	3	R0
104	6	G0

Perhaps spec. H5 along; Cont. like R

83	+13°	2072	9	11.9	+13	20.5	9.0	1
83	+13°	2071	9	11.9	+13	32.1	9.0	
84	+14°	2070	9	11.7	+14	4.7	9.0	1000 of super fine
85	+15°	2031	9	14.4	+15	30.5	8.7	Dark
86	+14°	2079	9	13.4	+14	59.6	9.0	v
87	+15°	2004	9	5.2	+15	21.5	9.0	v
88	+15°	2082	9	4.3	+15	19.4	9.3	v
89	+15°	1999	9	2.8	+15	4.5	9.1	v
90	+15°	1973	8	56.7	+15	57.4	9.0	v
91	+15°	1969	8	56.1	+15	1.9	9.0	v
9								

Identified by Dr. C. W. April 7, 1913.

Checked by Ann. April 12, 1913

cards made out by Dr. C. W.

Cards checked by S. R. B.

✓	90	+17°	1991	8	53.8	+17	5.2	8.2	12 on 337607
✓	93	+16°	1945	9	12.0	+16	33	8.8	64 m 337607
✓	94	+9°	2181	9	18.2	+9	25	8.2	1 m 337610
✓	95	+8	2265	9	20.2	+8	55	8.5	2 " "
✓	96	+10	2012	9	23.5	+10	56	8.3	7 " "
✓	97	+11	2054	9	24.3	+11	38	8.0	10 " "
✓	98	+14	2097	9	20.0	+14	23	8.2	124 " "
✓	99	+14	2018	8	55.3	+14	35	8.0	50 m 338188
✓	100	+15	2049	9	28.2	+15	8	8.0	122 m 337610
✓	101	+14	2085	9	19.0	+14	55	7.2	123 " "
✓	102	+12	2039						87 " "
✓	103	+13	2091						88 " "
✓	104	+15	2182						61 m 337607

Friday, May 7, 1913.

Time: 11.55

I 37200 long disp.

No.	Int.	Class	Remark
1	4	45	E.
2	2	A ₀	
3	1	45	
4	2	45	
5	1	F ₀	
6	2	A ₀	
7	1	45	
8	5	A ₀	
9	1	45	The preceding of two.
10	4	A ₁₅	
11	6	B ₉	
12	7	F ₀	
13	3	B ₉	
14	1	45	
15	3	A ₀	
16	2	A ₂	
17	1	A ₀	
18	4	A ₂	
19	2	A ₀	
20	2	B ₉	
21	4	B ₅	
22	2	B ₉	
23	5	B ₃	
24	10	B	Revised out.
25	4	B ₂	
26	2	B ₉	
27	3	B ₁	

1	+9°	1414	6	43.6 + 9	36.9	7.7	J
2	+9°	1404	6	42.7 + 9	25.6	8.6	J
3	+9°	1397	6	41.6 + 9	47.4	8.5	V
4	+9°	1396	6	41.4 + 9	44.8	8.3	J
5	+10°	1273	6	40.3 + 10	8.8	9.8	J
6	+10°	1279	6	40.2 + 10	20.5	9.1	J
7	+10°	1274	6	40.4 + 10	41.2	9.8	J
8	+11°	1307	6	39.9 + 11	38.0	8.7	J
9	+11°	1303	6	39.9 + 11	38.2	8.2	J
10	+11°	1302	6	39.2 + 11	4.1	8.7	J
11	+10°	1262	6	39.0 + 11	12.0	8.3	J
12	+9°	1376	6	38.8 + 10	53.4	7.5	J
13	+9°	1374	6	37.6 + 9	54.9	7.5	J
14	+9°	1383	6	37.3 + 9	50.0	8.7	J
15	+8°	1477	6	36.6 + 9	20.9	7.7	J
16	+8°	1469	6	37.4 + 8	58.3	8.8	J
17	+8°	1472	6	36.5 + 8	27.4	8.5	J
18	+9°	1369	6	36.6 + 8	48.5	8.8	J
19	+8°	1459	6	36.0 + 9	12.1	8.7	J
20	+9°	1356	6	34.8 + 8	59.3	8.4	J
21	+9°	1350	6	32.9 + 9	38.9	9.1	J
22	+9°	1349	6	33.5 + 9	59.0	8.3	J
23	+9°	1344	6	33.4 + 9	52.1	8.8	J
24	+10°	1220	6	33.2 + 9	36.3	8.1	J
25	+9°	1334	6	33.0 + 10	1.8	8.4	J
26	+9°	1332	6	32.7 + 9	47.3	9.2	J
27	+9°	1331	6	32.6 + 9	54.9	8.5	J
				32.5 + 9	56.9	8.5	J

cards made out

Friday, Mar. 7, 1913.

I 38250 long disp.

No.	Int.	Class	Remark
28	3	F ₀	
29	3	G ₀	
30	5	B ₅	Auricular star infused at north.
31	3	G ₅	
32	2	G ₀	
33	4	B ₂	
34	3	B ₅	
35	5	H ₀	
36	3	G ₂	
37	4	G ₅	
38	2	F ₈	
39	7	G ₅	
40	4	G ₀	
41	1	F ₀	
42	1	F ₅	
43	4	G ₃	lines indistinct.
44	1	F ₂	
45	3	G ₅	
46	1	F ₅	
47	1	G	
48	1	G	
49	2	G ₀	
50	1	F ₀	
51	1	F ₀	Perhaps Mar.
52	3	B ₈	
53	1	G ₂	
54	2	F ₅	

28	+9°	1324	6	31.6 + 9	52.6	8.0	✓
29	+10°	1211	6	31.6 + 10	22.0	8.2	✓
30	+9°	1322	6	31.2 + 9	46.8	8.1	49° 1321 mag. 8.5
31	+9°	1306	6	29.6 + 9	15.4	7.8	✓
32	+9°	1303	6	29.4 + 9	28.6	8.3	✓
33	+10°	1190	6	28.2 + 10	23.7	8.1	✓
34	+9°	1295	6	27.7 + 9	57.6	8.6	✓
35	+10°	1201	6	29.6 + 10	58.3	7.1	✓
36	+11°	1249	6	29.3 + 11	14.5	8.2	✓
37	+11°	1252	6	29.9 + 11	43.4	8.4	✓
38	+12°	1222	6	29.5 + 12	15.6	8.5	✓
39	+12°	1219	6	29.5 + 12	18.6	7.9	✓
40	+11°	1243	6	28.5 + 11	58.6	8.4	✓
41	+11°	1238	6	27.6 + 11	50.0	8.7	✓
42	+11°	1237	6	27.3 + 11	35.2	8.6	✓
43	+11°	1232	6	27.0 + 11	14.0	8.2	✓
44	+10°	1188	6	27.4 + 10	57.4	8.6	✓
45	+10°	1171	6	24.8 + 10	15.8	8.2	✓
46	+10°	1170	6	24.6 + 10	31.6	8.3	✓
47	+10°	1180	6	25.8 + 10	17.2	8.9	✓
48	+10°	1179	6	25.6 + 10	7.7	9.3	✓
49	+11°	1216	6	25.1 + 11	37.7	9.2	✓
50	+11°	1214	6	24.6 + 11	40.7	8.6	✓
51	+11°	1205	6	23.6 + 11	12.1	8.7	✓
52	+10°	1159	6	23.2 + 10	2.2	8.3	✓
53	+10°	1145	6	20.0 + 10	5.1	9.1	✓
54	+11°	1197	6	21.1 + 11	2.0	8.3	✓

cards made out

Friday, May 7, 1913.

I 38200 long airp

No.	Int.	Class	Remark
55	2	A ₀	
56	2	F ₀	
57	2	A ₀ E.	
58	1	A ₀ E.	
59	3	F ₃ E.	
60	2	F ₅	
61	5	A ₀ E.	
62	3	F ₀ E.	
63	7	F ₅ E.	
64	6	F ₉ E.	
65	2	F ₅ E.	
66	1	F ₅ E.	
67	3	F ₀ E.	
68	4	F ₅ E.	
69	3	A ₀ E.	
70	1	F ₀	
71	4	A ₀	
72	3	F ₅	
73	2	A ₂	
74	3	F ₅	
75	3	F ₀	
76	2	F ₀	
77	4	F ₈	
78	1	A ₅	
79	1	F ₇	
80	2	F ₈	
81	2	F ₂	

55 +10°	1140	6°	19.3 +10°	24.4	9.0	✓
56 +11°	1160	6°	16.6 +11°	7.1	8.4	✓
57 +10°	1113	6°	15.1 +10°	14.3	8.3	✓
58 +10°	1111	6°	14.6 +10°	9.9	8.9	✓
59 +9°	1200	6°	13.1 +9°	49.7	8.7	✓
60 +10°	1315	6°	46.1 +10°	41.9	8.2	✓
61 +11°	1355	6°	46.4 +11°	14.1	8.1	✓
62 +10°	1350	6°	45.9 +11°	11.7	8.0	✓
63 +11°	1344	6°	45.3 +11°	10.4	6.8	✓
64 +10°	1310	6°	45.2 +10°	45.7	7.7	✓
65 +10°	1321	6°	46.6 +10°	52.5	8.8	✓
66 +10°	1325	6°	46.8 +10°	43.8	8.5	✓
67 +11°	1356	6°	46.7 +11°	36.8	8.3	✓
68 +12°	1344	6°	46.8 +12°	8.8	8.0	✓
69 +11°	1353	6°	46.0 +11°	51.1	8.8	✓
70 +11°	1335	6°	44.5 +11°	45.6	8.0	✓
71 +11°	1333	6°	44.3 +11°	29.8	8.0	✓
72 +10°	1301	6°	43.9 +10°	58.1	8.1	✓
73 +11°	1329	6°	43.6 +11°	34.6	8.0	✓
74 +11°	1327	6°	43.8 +11°	49.7	7.7	✓
75 +12°	1310	6°	42.0 +12°	13.3	7.7	✓
76 +12°	1309	6°	41.8 +12°	4.5	8.0	✓
77 +12°	1306	6°	41.4 +12°	14.6	8.1	✓
78 +12°	1301	6°	40.7 +12°	46.6	8.6	✓
79 +12°	1300	6°	40.6 +12°	43.4	8.4	✓
80 +13°	1427	6°	41.4 +13°	20.9	8.4	✓
81 +13°	1424	6°	41.3 +13°	14.5	8.8	✓

cards made out

Friday, Mar. 7, 1913.

F3820 long airp

No. Int. Class Remark

82	3	As	
83	3	Fo	
84	4	As	
85	7	3/6	
86	3	A	
87	3	As	
88	3	As	
89	1	Ho	
90	2	As	
91	2	Ho	
92	2	As	
93	4	As	
94	5	As	lines narrow.
95	10+	F	
96	7	Fo	
97	1	Fs	
98	1	As	
99	2	As	
100	3	As	
101	3	Comp?	Look up on short.
102	1	F?	
103	4	As	
104	5	As	
105	1	As	
106	3	A	
107	2	As	
108	2	As	

82	+13°	1421 6	41.0 + 13	31.3	9.0 ✓
83	+13°	1423 6	41.2 + 13	53.7	8.5 ✓
84	+13°	1430 6	41.7 + 13	56.7	8.5 ✓
85	+13°	1434 6	42.2 + 13	34.5	6.6 ✓
86	+14°	1442 6	40.8 + 14	33.9	8.9 ✓
87	+14°	1452 6	40.9 + 14	48.9	8.7 ✓
88	+14°	1441 6	39.8 + 14	25.4	8.9 ✓
89	+14°	1436 6	39.5 + 14	56.7	8.5 ✓
90	+13°	1406 6	38.4 + 13	48.4	9.1 ✓
91	+14°	1424 6	37.8 + 14	11.5	8.5 ✓
92	+13°	1401 6	37.6 + 13	44.9	9.3 ✓
93	+13°	1393 6	36.9 + 13	53.4	8.8 ✓
94	+13°	1395 6	37.1 + 13	28.8	8.5 ✓
95	+13°	1396 6	37.2 + 13	2.7	3.7 ✓
96	+12°	1275 6	37.8 + 12	50.6	8.0 ✓
97	+12°	1285 6	39.0 + 12	15.1	8.6 ✓
98	+11°	1295 6	37.4 + 11	31.2	9.0 ✓
99	+11°	1294 6	37.3 + 11	43.2	8.6 ✓
100	+12°	1268 6	37.0 + 12	25.9	8.6 ✓
101	+12°	1267 6	36.9 + 12	23.0	8.6 ✓
102	+12°	1264 6	36.7 + 12	13.3	8.9 ✓
103	+12°	1261 6	36.4 + 12	0.3	8.3 ✓
104	+12°	1257 6	35.6 + 12	11.4	8.6 ✓
105	+11°	1289 6	35.9 + 11	54.7	8.6 ✓
106	+11°	1287 6	35.8 + 11	18.9	8.6 ✓
107	+10°	1248 6	35.5 + 10	42.9	8.5 ✓
108	+10°	1253 6	37.0 + 10	52.6	8.2 ✓

cards made out

Friday, Mar. 7, 1913.

F 38300 long disp.

No. Int. Class Remark

109	1	A	
110	1	SP	
111	1	A5	
112	3	Fo	
113	1	Fo	
114	2	A	
115	2	Fo	
116	5	Ma	
117	2	Ao	
118	2	Bg	
119	3	Ao	
120	2	A	Another star of same class superposed at south.
121	4	Ao	
122	5	Bg	
123	1	A	
124	1	A	
125	1	Sp	
126	1	F	
127	74	Bg	
128	1	Fo	
129	9	A2	
130	4	Ao	
131	3	Fo	
132	1	A	Nearly all superposed on 129.
133	4	Fo	
134	3	Fo	
135	2	Fo	

109	+10°	1257	6	37.5	+10	30.7	8.8	↓
110	+10°	1260	6	37.8	+10	53.6	8.7	↓
111	+10°	1241	6	35.4	+10	57.9	8.8	✓
112	+11°	1281	6	35.0	+11	8.9	8.6	↓
113	+10°	1296	6	34.7	+10	27.9	8.5	↓
114	+10°	1240	6	35.3	+10	18.6	8.8	↓
115	+11°	1275	6	38.6	+11	1.5	8.4	↓
116	+11°	1273	6	38.2	+11	7.9	6.9	✓
117	+10°	1221	6	33.0	+10	26.6	8.7	✓
118	+10°	1215	6	32.6	+10	31.2	8.8	↓
119	+10°	1214	6	32.2	+10	34.1	8.5	↓
120	+10°	1219	6	32.9	+10	9.7	8.7	↓
121	+11°	1269	6	32.3	+11	19.7	8.3	↓
122	+11°	1263	6	31.8	+11	48.7	8.1	↓
123	+10°	1208	6	30.8	+10	46.4	9.0	↓
124	+10°	1208	6	30.5	+10	48.3	9.4	↓
125	+11°	1253	6	30.2	+11	0.6	8.8	↓
126	+12°	1289	6	32.2	+12	10.8	8.5	✓
127	+12°	1287	6	32.0	+12	30.4	8.6	✓
128	+13°	1363	6	32.0	+13	10.6	8.8	↓
129	+13°	1356	6	31.7	+13	6.6	7.0	↓
130	+12°	1235	6	31.5	+12	59.4	8.5	↓
131	+13°	1381	6	31.4	+13	1.0	8.3	✓
132	+13°	1355	6	31.6	+13	1.9	8.9	↓
133	+12°	1230	6	24.4	+12	51.8	8.2	↓
134	+13°	1347	6	31.1	+13	48.4	7.9	↓
135	+14°	1365	6	28.6	+14	0.8	8.9	↓

Orig. ident. was
correct

as do made out

Friday, Mar. 7, 1913.

Is 200 long strip

No. Lat. Class Remark

136	1	A	
137	6	A ₀	
138	3	F ₀	
139	4	A ₀	
140	1	A	
141	7	A ₃	
142	3	F ₅	
143	1	A ₀	
144	4	A ₂	
145	4	F ₅	
146	2	A ₀	
147	3	F _{1/2}	
148	3	F ₅	
149	2	A ₀	
150	1	F ₅	
151	4	F ₅	
152	1	F ₅	
153	4	A ₀	
154	3	A ₂	
155	1	F ₅	
156	1	F ₅	
157	4	F ₀	
158	8	A ₂	
159	2	A ₂	
160	9	F ₀	
161	5	A ₀	
162	2	F ₅	

136	+13°	1335.6	27.5 + 13	55.0	9.1	✓
137	+13°	1329.6	27.9 + 13	48.6	7.5	✓
138	+13°	1327.6	27.7 + 13	16.5	8.0	✓
139	+13°	1321.6	27.3 + 13	22.0	8.0	✓
140	+12°	1207.6	27.1 + 12	42.8	9.4	✓
141	+12°	1265.6	27.0 + 12	46.8	7.9	✓
142	+12°	1264.6	26.8 + 12	39.1	8.5	✓
143	+12°	1197.6	26.4 + 12	59.0	8.9	✓
144	+12°	1198.6	26.4 + 12	57.2	8.3	✓
145	+14°	1344.6	26.1 + 14	51.5	7.4	✓
146	+14°	1342.6	25.6 + 14	45.2	8.7	✓
147	+14°	1338.6	25.3 + 14	41.5	8.2	✓
148	+14°	1343.6	25.6 + 14	23.9	8.4	✓
149	+13°	1303.6	25.2 + 13	47.3	9.0	✓
150	+13°	1296.6	24.2 + 13	18.1	8.5	✓
151	+15°	1246.6	26.6 + 15	26.6	var.	✓
152	+15°	1244.6	26.5 + 15	11.1	8.6	✓
153	+15°	1255.6	28.2 + 15	52.2	7.5	✓
154	+16°	1226.6	29.6 + 16	5.8	8.6	✓
155	+15°	1267.6	29.5 + 15	17.3	8.6	✓
156	+15°	1267.6	29.4 + 15	17.3	8.5	✓
157	+14°	1394.6	33.6 + 14	32.6	7.5	✓
158	+14°	1395.6	33.6 + 14	21.0	6.7	✓
159	+13°	1372.6	34.8 + 13	30.8	8.8	✓
160	+13°	1390.6	35.8 + 13	22.4	5.1	✓
161	+11°	1280.6	34.6 + 11	54.0	8.1	✓
162	+12°	1248.6	34.2 + 12	8.8	8.5	✓

Cards made out

Friday, Mar 7, 1913.

I 38200 long dup.

Ins.	Lat.	Class	Remark
163	1	45	
164	1	42	
165	1	45	
166	2	45	
Time 12.30	167	1	45
	168		
	169		
	170		

168	7	Ko
169	3	25
170	2	20
171	2	20
172	8	B3
173	7	F0
174	6	B8

163 +11°	1298 6	34.2 +11	37.6	8.7	✓
164 +11°	1274 6	33.4 +11	32.0	8.7	✓
165 +14°	1274 6	33.4 +14	32.0	8.8	✓
166 +13°	1242 6	17.5 +13	35.1	8.8	✓
167 +11°	1223 6	25.9 +11	30.4	8.7	✓

Identified by AME. April 8, 1913
 checked by W.C.W. Aug. 16, 1913.
 cards made out by W.C.W.
 Cards checked by AME

✓ 168 +14°	1339 6	25.4 +14	15	6.0	46 m	529
✓ 169 +15	1281 6	33.1 +15	33	7.8	37	37401
✓ 170 +17	1288 6	24.3 +17	8	8.0	60	
171 +12°	1319 6	43.1 +12	38	8.5	✓	
✓ 172 +8	1486 6	38.6 +8	44	6.0	295 m	37052
✓ 173 +11	1993 6	21.0 +11	6	7.1	141 m	37168
✓ 174 +11	1207 6	23.6 +11	54	2.1	38	37579

Friday, Mar. 7, 1913.

June 18.31

I 36977 long dirp.

No.	Int.	Class	Remarks
1	1	A	E.
2	3	A ₂	E.
3	3	A ₅	E.
4	9	B ₉	E.
5	1	G ₅	
6	5	B ₉	
7	2	G ₀	
8	3	F ₀	
9	1	F ₁	
10	8	F ₀	
11	2	F ₂	
12	3	F ₂	
13	4	G ₅	
14	1	F ₁	
15	10+	F ₀	
16	2	A ₀	
17	1	F ₀	
18	1	G ₅	
19	1	A ₀	
20	1	F ₀	
21	1	F ₀	
22	2	G ₀	
23	1	A ₀	
24	2	F ₅	
25	1	G ₅	
26	1	F ₀	
27	5	A ₀	

1	+9°	1424	6	45.2	+9	58.1	9.0 ✓
2	+9°	1432	6	47.0	+9	40.8	8.7 ✓
3	+9°	1435	6	47.2	+9	49.9	8.5 ✓
4	+10°	1335	6	48.4	+10	8.4	6.1 ✓
5	+11°	1368	6	48.3	+11	12.5	8.3 ✓
6	+11°	1370	6	48.8	+11	35.1	8.0 ✓
7	+11°	1378	6	49.2	+11	20.8	8.6 ✓
8	+11°	1377	6	49.4	+11	9.7	8.0 ✓
9	+11°	1379	6	49.8	+11	25.4	8.7 ✓
10	+12°	1361	6	49.3	+12	5.5	7.0 ✓
11	+11°	1369	6	48.6	+11	56.0	8.5 ✓
12	+12°	1357	6	48.4	+12	34.3	8.8 ✓
13	+12°	1354	6	48.1	+12	45.8	8.0 ✓
14	+11°	1365	6	48.0	+11	6.7	8.8 ✓
15	+13°	1462	6	46.5	+13	21.8	5.3 ✓
16	+12°	1325	6	43.9	+12	24.9	9.0 ✓
17	+12°	1322	6	43.7	+12	51.6	8.8 ✓
18	+12°	1319	6	43.1	+12	37.8	8.5 ✓
19	+12°	1320	6	43.4	+12	53.2	9.1 ✓
20	+13°	1445	6	44.1	+13	25.5	8.8 ✓
21	+14°	1460	6	42.7	+14	1.7	8.4 ✓
22	+14°	1456	6	41.7	+14	51.3	8.6 ✓
23	+15°	1332	6	41.4	+15	2.5	9.0 ✓
24	+15°	1347	6	43.0	+15	14.6	7.3 ✓
25	+15°	1346	6	42.8	+15	22.0	8.6 ✓
26	+15°	1342	6	42.6	+15	7.8	8.6 ✓
27	+11°	1527	7	9.2	+11	22.9	8.0 ✓

magn. 8.6
+11 1375 Adh. cond.
remains double by 9.30 AM
made 12.13.13 Se. Towal
and sent file 23.12.13
inspected by R. J. G.

cards made out

Friday, Mar. 7, 1913.

I 36977 long exp.

No. Int. Class Remark

28	2	Fo	
29	3	A2	
30	4	Fo	
31	8	F ₁	
32	2	Ao	
33	1	F ₁	
34	4	F ₂	
35	1	F ₁	
36	3	Fo	
37	3	F ₁	
38	2	F ₁	
39	7	A2	
40	1	A3	
41	1	A	
42	1	F2	
43	2	A3	
44	5	Ao	
45	1	F ₁	
46	3	Ao	
47	4	Fo	
48	3	F ₂	Nearly all spectrum based on 49.
49	8	F ₂	
50	1	F5	
51	2	F ₁	
52	1	A2	
53	7	A2	
54	1	F ₁	

Junc. 12.45
Mar. 8, 1913

Time: 9.35

28 +11°	1517 7	7.1 +11	20.0 8.5 v
29 +11°	1514 7	7.0 +11	15.4 8.1 v
30 +10°	1458 7	5.8 +10	56.1 7.5 v
31 +12°	1469 7	6.5 +12	21.7 6.5 v
32 +11°	1506 7	5.1 +11	52.2 8.6 v
33 +12°	1464 7	4.8 +12	9.6 8.6 v
34 +12°	1463 7	4.4 +12	46.2 8.2 v
35 +12°	1456 7	3.4 +12	41.1 8.5 v
36 +11°	1492 7	3.4 +11	54.0 8.6 v
37 +10°	1448 7	3.8 +10	44.8 8.2 v
38 +10°	1453 7	4.5 +10	26.4 8.0 v
39 +11°	1467 7	2.5 +11	9.1 7.5 v
40 +11°	1464 6	0.1 +11	14.2 8.6 v
41 +11°	1457 6	59.8 +11	5.5 9.0 v
42 +11°	1453 6	59.4 +11	19.7 8.7 v
43 +11°	1447 6	58.8 +11	9.6 8.5 v
44 +11°	1439 6	57.8 +11	26.4 8.0 v
45 +10°	1409 6	57.7 +10	36.1 8.3 v
46 +10°	1413 6	58.3 +10	29.0 8.5 v
47 +10°	1416 6	57.1 +10	5.8 8.4 v
48 +10°	1392 6	55.6 +10	58.8 8.6 v
49 +11°	1428 6	55.6 +11	9.4 5.0 v
50 +11°	1414 6	54.1 +11	16.5 8.5 v
51 +10°	1370 6	53.0 +10	49.6 7.2 v
52 +9°	1456 6	49.8 +9	47.0 8.7 v
53 +11°	1408 6	53.1 +11	58.5 7.0 v
54 +12°	1379 6	52.3 +12	6.9 8.8 v

Cards made out

Saturday, Mar. 8, 1913

F 36977 long exp.

No.	Int.	Class	Remarks
55	2	Fa	
56	3	Fa	
57	4	A2	
58	5	A3	Partly under forced on 57.
59	1	A2	
60	4	Fa	
61	1	Fa	
62	5	A5	
63	6	Fa	
64	3	A2	
65	2	A2	
66	3	Fa	
67	1	Fa	
68	3	A2	
69	1	Fa	
70	2	Fa	
71	1	Fa	
72	2	A2	
73	1	Fa	
74	1	Fa	maybe near.
75	5	Fa E.	
76	3	Fa E.	
77	2	Fa E.	
78	4	Fa	
79	1	Fa	
80	3	A2	
81	3	Fa	

55 +11°	1398 6	51.8 +11	59.8 8.0 v	
56 +12°	1384 6	52.8 +12	36.0 8.0 v	
57 +12°	1382 6	52.5 +12	56.5 8.4 v	
58 +12°	1381 6	52.5 +12	55.1 8.1 v	
59 +13°	1503 6	51.1 +13	10.1 9.0 v	
60 +13°	1495 6	50.1 +13	27.1 8.5 v	
61 +13°	1494 6	50.1 +13	15.9 9.0 v	
62 +14°	1513 6	50.0 +14	26.6 7.6 v	+14° 1512 superfluous
63 +14°	1509 6	49.9 +14	24.9 7.9 v	
64 +13°	1482 6	48.7 +13	51.4 8.8 v	
65 +14°	1496 6	48.4 +14	12.8 8.7 v	
66 +14°	1494 6	47.9 +14	40.9 8.4 v	
67 +14°	1493 6	47.9 +14	6.7 9.2 v	
68 +14°	1491 6	47.6 +14	3.7 8.9 v	
69 +14°	1486 6	46.9 +14	24.6 8.6 v	
70 +14°	1477 6	45.6 +14	55.7 8.0 v	
71 +15°	1358 6	44.8 +15	14.9 8.7 v	
72 +15°	1367 6	46.2 +15	36.6 8.9 v	
73 +15°	1382 6	48.1 +15	52.7 9.2 v	
74 +15°	1378 6	47.9 +15	27.4 8.0 v	
75 +14°	1628 7	10.5 +14	37.3 8.0 v	
76 +13°	1626 7	10.6 +13	47.1 7.7 v	
77 +14°	1636 7	11.4 +14	11.9 8.9 v	
78 +14°	1619 7	9.0 +14	6.2 7.7 v	
79 +14°	1615 7	7.5 +14	6.3 8.4 v	
80 +14°	1608 7	6.7 +14	14.7 8.5 v	
81 +14°	1603 7	5.8 +14	12.8 7.8 v	

Cards made out

Saturday, Nov. 8, 1913.

± 36977 alt. disp.

No. Int. Class Remark

82	6	Sto	
83	1	Sto	
84	2	Sto	
85	3	Sto	
86	4	Sto	
87	2	Sto	
88	1	Sto	
89	1	Sto	
90	1	Sto	
91	5	Sto	
92	2	Sto	
93	1	Sto	
94	4	Sto	
95	1	Sto	
96	6	Sto	
97	1	Sto	
98	1	Sto	
99	2	Sto	
100	3	Sto	
101	1	Sto	
102	6	Sto	
103	1	Sto	
104	2	Sto	
105	5	Sto	
106	4	Sto	
107	7	Sto	
108	2	Sto	

82 +14°	1600	7	5.2	+14	0.2	6.5
83 +13°	1577	7	3.1	+13	36.2	8.9
84 +14°	1586	7	2.9	+14	0.8	9.31
85 +13°	1574	7	2.3	+13	35.3	8.7
86 +13°	1572	7	1.7	+13	22.4	7.5
87 +12°	1430	6	59.8	+12	47.9	8.1
88 +12°	1429	6	59.7	+12	35.7	8.9
89 +12°	1427	6	58.9	+12	32.9	8.8
90 +12°	1419	6	58.1	+12	50.4	8.7
91 +13°	1556	6	58.8	+13	37.3	8.2
92 +14°	1560	6	57.9	+14	12.2	7.7
93 +13°	1547	6	57.4	+13	55.1	7.7
94 +13°	1544	6	57.3	+13	50.0	8.3
95 +13°	1546	6	57.4	+13	31.9	8.6
96 +12°	1406	6	55.7	+12	48.2	6.0
97 +12°	1410	6	56.9	+12	18.4	9.0
98 +12°	1408	6	56.4	+12	23.9	9.0
99 +12°	1403	6	55.2	+12	4.2	8.8
100 +11°	1421	6	54.9	+11	55.2	8.5
101 +11°	1422	6	54.9	+11	22.8	8.5
102 +12°	1395	6	54.2	+12	47.1	8.0
103 +12°	1390	6	53.6	+12	32.7	9.3
104 +13°	1534	6	55.0	+13	10.5	8.8
105 +13°	1531	6	54.7	+13	17.7	8.0
106 +13°	1527	6	54.4	+13	58.8	8.0
107 +14°	1539	6	55.0	+14	32.6	7.5
108 +14°	1549	6	55.8	+14	13.0	8.5

cards made out

Saturday, Nov. 8, 1913.

I 36977 long exp.

No. Lat. Class Remark

109	1	$\frac{1}{2}$	
110	8	$\frac{1}{2}$	
111	5	$\frac{1}{2}$	
112	2	$\frac{1}{2}$	
113	2	$\frac{1}{2}$	
114	1	$\frac{1}{2}$	
115	2	$\frac{1}{2}$	
116	6	$\frac{1}{2}$	
117	1	$\frac{1}{2}$	
118	3	$\frac{1}{2}$	
119	1	$\frac{1}{2}$	
120	3	$\frac{1}{2}$	
121	2	$\frac{1}{2}$	
122	2	$\frac{1}{2}$	
123	1	$\frac{1}{2}$	
124	2	$\frac{1}{2}$	
125	1	$\frac{1}{2}$	
126	1	$\frac{1}{2}$	
127	1	$\frac{1}{2}$	
128	2	$\frac{1}{2}$	
129	1	$\frac{1}{2}$	
130	1	$\frac{1}{2}$	
131	1	$\frac{1}{2}$	
132	1	$\frac{1}{2}$	
133	1	$\frac{1}{2}$	
134	1	$\frac{1}{2}$	
135	2	$\frac{1}{2}$	

The v. f. of two.

109	+14°	1550	6	56.8	+14	26.3	8.8	✓
110	+14°	1558	6	57.3	+14	40.6	6.9	✓
111	+15°	1461	6	57.7	+15	23.6	7.0	✓
112	+15°	1447	6	56.3	+15	28.9	8.9	✓
113	+15°	1445	6	56.1	+15	5.3	7.7	✓
114	+15°	1443	6	56.0	+15	5.3	7.0	✓
115	+14°	1545	6	55.7	+14	53.2	8.5	✓
116	+15°	1444	6	56.1	+15	26.8	7.5	✓
117	+15°	1442	6	55.7	+15	28.1	9.0	✓
118	+16°	1375	6	56.3	+16	2.3	8.9	✓
119	+15°	1446	6	56.2	+15	45.5	9.0	✓
120	+16°	1381	6	57.0	+16	35.4	8.0	✓
121	+16°	1380	6	56.9	+16	57.4	8.7	✓
122	+16°	1376	6	56.3	+16	22.6	8.7	✓
123	+16°	1372	6	55.6	+16	23.7	8.4	✓
124	+16°	1365	6	54.3	+16	11.0	8.8	✓
125	+15°	1427	6	53.5	+15	2.8	8.5	✓
126	+13°	1514	6	52.7	+13	54.6	9.0	✓
127	+14°	1529	6	52.7	+14	17.2	9.1	✓
128	+14°	1529	6	51.2	+14	30.7	8.6	✓
129	+15°	1410	6	51.9	+15	12.5	8.8	✓
130	+15°	1401	6	50.8	+15	45.0	8.8	✓
131	+16°	1342	6	49.6	+16	50.2	8.8	✓
132	+16°	1341	6	49.5	+16	46.3	8.6	✓
133	+16°	1325	6	46.1	+16	42.6	8.8	✓
134	+15°	1520	7	7.6	+15	3.5	8.4	✓
135	+15°	1525	7	8.6	+15	41.4	8.8	✓

+16" 1377 superimposed

Cardo m a d i on

Saturday, Mar. 8 1913.

I 36977 long dirp

No.	Int.	Class	Remarks
136	2	h ₀	
137	1	h ₀	
138	3	h ₀	
139	4	h ₀	
140	6	h ₀	
141	2	h ₀	
142	2	h ₀	
143	2	h ₀	
144	5	h ₀	
145	1	h ₀	
146	3	h ₀	
147	8	h ₀	
148	4	h ₀	Partly superseded on 147.
149	3	h ₀	
150	3	h ₀	
151	2	h ₀	
152	2	h ₀	
153	3	h ₀	
154	4	h ₀	
155	2	h ₀	
156	1	h ₀	
157	2	h ₀	
158	3	h ₀	
159	6	h ₀	
160	7	h ₀	E.
161	3	h ₀	
162	2	h ₀	E.

Time: 9.52

11.27

136 +15°	1522	7	7.7 +15	56.0	8.5 J
137 +15°	1515	7	7.0 +15	29.0	8.2 J
138 +16°	1422	7	6.0 +16	0.9	8.5 J
139 +16°	1420	7	5.5 +16	5.7	8.0 J
140 +15°	1504	7	4.5 +15	25.1	7.5 J
141 +15°	1498	7	3.8 +15	1.5	8.8 J
142 +14°	1589	7	3.6 +14	48.4	8.6 J
143 +15°	1496	7	3.4 +15	22.7	8.6 J
144 +15°	1494	7	3.0 +15	34.2	7.3 J
145 +15°	1487	7	2.7 +15	50.5	9.2 J
146 +15°	1482	7	0.8 +15	40.1	8.1 J
147 +16°	1397	7	0.0 +16	9.5	5.8 J
148 +16°	1396	7	0.0 +16	22.2	7.5 J
149 +15°	1476	6	59.9 +15	45.2	7.7 J
150 +15°	1473	6	59.7 +15	45.6	7.8 J
151 +16°	1390	6	59.0 +16	1.2	8.2 J
152 +16°	1385	6	58.4 +16	53.3	8.5 J
153 +16°	1400	7	1.0 +16	47.0	8.1 J
154 +16°	1398	7	0.4 +16	42.6	8.0 J
155 +16°	1395	6	0.0 +16	51.6	8.6 J
156 +17°	1506	7	0.4 +17	8.4	7.9 J
157 +17°	1504	7	0.2 +17	34.8	8.2 J
158 +17°	1505	7	0.3 +17	53.8	7.3 J
159 +17°	1492	6	57.9 +17	57.5	7.1 J
160 +15°	1541	7	11.9 +15	25.6	6.8 J
161 +15°	1537	7	11.2 +15	26.9	8.5 J
162 +12°	1495	7	10.9 +12	5.9	8.2 J

cards on ad. out

Saturday, Mar. 8, 1913.

I 36977 long strip.

No. Lat. Class Remark

163 4 Q2

164 3 Q2

165 3 Q2

166 4 Q2 E.

167 4 Q2 E.

168 4 Q2 E.

169 2 Q2 E.

11.41 170 1 Q2

171

172

173

163 + 10°	1490	7	11.1	+10	34.5	7.0	✓
164 + 10°	1494	7	11.4	+10	42.3	7.7	✓
165 + 10°	1505	7	13.0	+10	27.6	7.8	✓
166 + 9°	1603	7	9.7	+9	33.3	7.3	✓
167 + 9°	1597	7	9.1	+9	42.8	7.8	✓
168 + 9°	1583	7	7.6	+9	45.2	7.7	✓
169 + 9°	1571	7	5.9	+9	42.8	8.0	✓
170 + 11°	1493	7	3.6	+11	10.0	8.8	✓

Identified by J.G.M. March 11, 1913
 Checked by L.M.S. March 17, 1913
 cores made out by L.C.W.

Saturday, May 8, 1913.

Time: 11.43

I 32238 long circ.

No. Lat. Class Remark

1	3	A ₂	
2	73	A ₀	
3	9	A ₀	
4	7	A ₀	
5	1	A ₀	
6	1	A ₀	
7	1	A ₀	
8	1	A ₀	
9	2	A ₀	
10	2	A ₀	
11	2	A ₀	
12	10	A ₀	
13	2	A ₀	
14	2	A ₀	
15	1	A ₀	
16	1	A ₀	
17	4	A ₀	
18	4	A ₀	
19	2	A ₀	
20	3	A ₀	
21	3	A ₀	
22	5	A ₀	
23	2	A ₀	
24	3	A ₀	
25	2	A ₀	
26	2	A ₀	
27	1	A ₀	

1	+24°	149.1	6	52.0	+24	40.6	8.3	✓
2	+24°	149.8	6	53.1	+24	32.9	8.0	✓
3	+24°	150.2	6	53.6	+24	25.0	5.8	✓
4	+23°	156.6	6	51.9	+23	39.7	8.0	✓
5	+23°	157.4	6	53.3	+23	52.6	8.9	✓
6	+23°	156.2	6	50.7	+23	17.3	8.5	✓
7	+22°	158.9	6	50.8	+22	26.3	8.6	✓
8	+22°	153.9	6	50.8	+22	26.3	8.6	✓
9	+22°	154.9	6	52.2	+22	12.3	8.5	✓
10	+22°	155.0	6	52.5	+22	32.6	9.1	✓
11	+22°	155.2	6	53.0	+22	48.1	9.4	✓
12	+22°	156.6	6	56.6	+22	52.2	7.1	✓
13	+23°	158.9	6	56.6	+23	22.7	9.0	✓
14	+23°	159.1	6	57.0	+23	29.9	8.5	✓
15	+23°	159.7	6	58.0	+23	27.8	8.0	✓
16	+23°	160.7	6	58.8	+23	26.4	9.0	✓
17	+24°	153.1	6	58.5	+24	23.2	7.1	✓
18	+25°	157.1	6	57.3	+25	5.1	7.0	✓
19	+23°	161.7	7	0.5	+23	52.8	8.3	✓
20	+24°	154.6	7	1.7	+24	19.6	7.8	✓
21	+23°	163.4	7	2.9	+23	27.8	8.5	✓
22	+22°	160.9	7	3.4	+22	30.7	8.0	✓
23	+22°	161.8	7	5.9	+22	58.6	8.8	✓
24	+22°	159.6	7	1.6	+22	35.5	8.0	✓
25	+22°	159.3	6	0.5	+22	3.1	8.2	✓
26	+22°	159.0	6	59.9	+22	10.0	8.0	✓
27	+22°	158.1	6	59.0	+22	58.4	9.1	✓

Cards made out

mag. 9.0
159° sulphur

Saturday, Mar. 8, 1913.

I 38238 long exp.

No	Int	Class	Remarks
28	3	A3	
29	4	A5	
30	2	F5	
31	2	Ly	
32	1	A	
33	6	B ₉	
34	10	Ly	
35	3	F5	
36	2	Ly	
37	2	A3	
38	1	F2	
39	3	A	
40	6	A0	
41	2	A2	
42	3	A0	
43	7	A2	
44	2	F5	
45	3	A0	
46	2	A0	
47	1	F5	
48	1	Ly	
49	1	F	
50	1	A	
51	1	F	
52	4	A3	
53	4	F5	
54	2	A5	

28	+22°	1587	6	59.5	+22	8.4	8.7	✓
29	+22°	1585	6	57.5	+22	6.6	8.5	✓
30	+22°	1570	6	57.8	+22	22.0	8.8	✓
31	+22°	1569	6	57.6	+22	54.3	8.5	✓
32	+21°	1504	6	57.1	+21	54.6	9.0	✓
33	+21°	1503	6	57.1	+21	12.2	8.2	✓
34	+20°	1687	6	55.5	+20	46.5	22.1	✓
35	+21°	1684	6	57.9	+21	39.5	8.6	✓
36	+21°	1481	6	54.5	+21	22.9	8.4	✓
37	+21°	1461	6	57.5	+21	17.7	8.7	✓
38	+21°	1447	6	49.4	+21	26.8	8.5	✓
39	+21°	1448	6	49.5	+21	17.3	8.7	✓
40	+19°	1591	6	58.0	+19	25.8	7.3	✓
41	+19°	1588	6	58.0	+19	29.9	9.0	✓
42	+19°	1586	6	52.9	+19	25.6	8.8	✓
43	+18°	1464	6	58.7	+18	52.8	7.1	✓
44	+18°	1469	6	58.1	+18	56.6	8.6	✓
45	+20°	1695	6	56.7	+20	2.2	8.6	✓
46	+19°	1600	6	57.4	+19	58.0	9.1	✓
47	+20°	1708	6	57.6	+20	18.4	8.5	✓
48	+20°	1706	6	58.0	+20	49.0	8.6	✓
49	+21°	1807	6	58.1	+21	6.3	8.8	✓
50	+21°	1512	6	58.8	+21	6.9	8.9	✓
51	+20°	1712	6	58.9	+20	44.1	8.6	✓
52	+28°	1716	7	0.4	+20	16.2	8.9	✓
53	+19°	1623	7	0.6	+19	46.7	7.4	✓
54	+19°	1620	7	0.4	+19	32.1	8.5	✓

Cards made out

Saturday, Mar. 8, 1913.

I 38 238 long air.

No.	Int.	Class	Remark
55	1	Ho	
56	2	hs	
57	1	hs	
58	1	A	
59	1	A	
60	2	hs	
61	1	A	
62	3	Ho	
63	1	Ho	
64	2	Ho	
65	2	Ho	
66	3	Ho	
67	2	Ho	
68	4	Ho	
69	2	Ho	
70	1	Ho	
71	1	Ho	
72	3	hs	Partly obscured on 73.
73	4	Ho	
74	2	A	
75	1	hs	
76	1	hs	
77	1	hs	
78			
79			

11.57

emb. 133, 54

55	+19°	1625	7	1.2	+19	30.6	8.5	✓
56	+19°	1624	7	0.7	+19	16.0	8.3	✓
57	+20°	1724	7	2.0	+20	40.7	9.1	✓
58	+20°	1718	7	1.3	+20	42.5	9.0	✓
59	+17°	1533	7	8.6	+17	34.7	9.0	✓
60	+18°	1528	7	5.3	+18	11.5	8.5	✓
61	+19°	1678	7	9.6	+19	50.7	9.0	✓
62	+19°	1675	7	9.4	+19	47.9	8.5	✓
63	+20°	1758	7	7.4	+20	39.7	8.7	✓
64	+21°	1539	7	2.9	+21	57.6	9.2	✓
65	+19°	1612	6	58.9	+19	25.5	8.6	✓
66	+19°	1605	6	58.1	+19	19.7	8.0	✓
67	+18°	1488	6	59.0	+18	33.0	8.8	✓
68	+17°	1675	7	0.3	+17	53.8	7.3	✓
69	+20°	1644	7	0.8	+20	52.8	8.3	✓
70	+17°	1509	7	1.1	+17	53.8	8.9	✓
71	+17°	1506	7	0.8	+17	8.4	7.7	✓
72	+16°	1396	7	0.0	+16	22.2	7.5	✓
73	+16°	1397	7	0.0	+16	9.5	6.8	✓
74	+16°	1473	7	56.3	+16	23.7	8.8	✓
75	+18°	1467	6	55.9	+18	16.5	8.3	✓
76	+18°	1459	6	55.0	+18	34.4	8.6	✓
77	+19°	1601	6	57.6	+19	15.8	8.7	✓

Identified by M. C. W. April 29, 1913.
 Checked by same May 1, 1913.
 Cards made out by M. C. W.

Thursday, Mar. 13, 1913.

Time: 9:56

± 375.22 long disp.

No.	Lat.	Class	Remark
1	1	G ₀	
2	3	A ₂	
3	1	A ₀	
4	3	F ₀	
5	2	F ₈	
6	1	F ₀	
7	3	B ₈	
8	1	A ₀	
9	4	A ₀	
10	2	F ₀	
11	1	A ₂	
12	2	F ₂	
13	1	F ₅	
14	1	B ₉	
15	1	F ₂	
16	1	B ₈	
17	1	A ₀	(Partly superposed on a brighter star)
18	3	A ₃	
19	2	B ₉	
20	2	A ₀	
21	2	A ₀	
22	3	A ₂	
23	3	A ₂	
24	2	F ₀	
25	3	A ₂	
26	2	A ₀	
27	1	F ₅	

1	+53°	29 ⁸	1	15.1	+53	36.0	8.9	1	✓
2	+54°	282	1	14.9	+53	29.2	8.9	✓	
3	+54°	284	1	15.9	+54	8.9	8.0	✓	
4	+55°	354	1	16.6	+54	12.3	8.4	✓	
5	+56°	295	1	24.2	+55	7.1	7.5	✓	
6	+56°	369	1	24.5	+56	4.1	8.0	✓	
7	+55°	375	1	28.5	+55	36.4	8.6	✓	
8	+54°	344	1	30.4	+55	2.7	7.5	✓	
9	+54°	350	1	30.6	+54	53.7	8.8	✓	
10	+54°	347	1	31.3	+54	12.3	7.5	✓	
11	+53°	345	1	31.0	+54	6.4	8.2	✓	
12	+53°	355	1	28.4	+53	22.3	8.1	✓	
13	+52°	404	1	30.3	+53	28.9	8.0	✓	
14	+53°	375	1	31.7	+52	50.1	7.5	✓	
15	+54°	365	1	34.6	+53	13.2	8.6	✓	
16	+54°	364	1	34.4	+54	52.8	8.4	✓	
17	+54°	367	1	34.2	+54	28.5	8.8	✓	
18	+56°	307	1	34.8	+54	11.9	9.0	✓	
19	+56°	321	1	29.3	+56	39.7	8.2	✓	
20	+56°	342	1	32.9	+56	27.2	8.2	✓	
21	+57°	372	1	36.1	+56	26.8	8.7	✓	
22	+58°	281	1	32.8	+57	33.1	8.7	✓	
23	+59°	312	1	33.5	+58	14.3	8.1	✓	
24	+59°	316	1	35.1	+59	1.7	8.3	✓	
25	+59°	309	1	36.2	+59	0.0	7.4	✓	
26	+58°	305	1	34.1	+59	42.1	8.0	✓	
27	+57°	404	1	39.6	+58	2.7	8.5	✓	
				41.1	+57	44.9	7.9	✓	

Cards made out

Thursday, Mar. 13, 1913

I 37522 long disp

No. Lat. Class Remarks

28 2 A2
 29 1 A
 30 1 A
 31 1 F2
 32 4 G2 E.
 33 3 A2 E.
 34 1 F5
 35 1 A
 36 3 A
 37 1 G2
 38 1 A
 39 2 F2
 40 1 A3
 41 3 F5
 42 2 A2
 43 1 A
 44 2 B9
 45 1 A
 46 1 A
 47 2 A2 E.

Time: 10.05

48 2 A3
 49 3 A3
 50 5 A5

28 +58° 316 1 43.2 +58 22.9 8.7 ✓
 29 +57° 407 1 42.1 +57 54.6 8.6 1
 30 +56° 353 1 38.6 +56 53.4 8.8 1
 31 +56° 360 1 41.2 +56 2.6 7.9 1
 32 +60° 295 1 29.4 +60 26.2 8.2 ✓ ^{mag. 8.5}
 33 +56° 246 1 10.4 +56 32.2 8.0 +60.295 superposed
 34 +56° 264 1 15.3 +56 26.3 7.7 1
 35 +56° 322 1 19.1 +55 43.1 8.5 ✓ +56°
 36 +57° 294 1 19.2 +57 4.0 8.0 1
 37 +58° 249 1 20.6 +58 0.7 7.6 ✓
 38 +57° 315 1 23.1 +57 13.2 8.4 1
 39 +57° 319 1 23.5 +57 52.0 8.4 ✓
 40 +58° 258 1 22.9 +58 24.2 8.0 ✓
 41 +58° 268 1 26.8 +58 42.9 7.5 ✓
 42 +58° 270 1 28.4 +58 38.8 7.8 ✓
 43 +59° 290 1 28.0 +59 8.3 8.0 1
 44 +57° 333 1 26.4 +57 45.2 8.5 ✓
 45 +52° 446 1 41.6 +52 25.9 9.0 ✓
 46 +52° 444 1 42.0 +52 16.7 8.5 ✓
 47 +57° 500 1 58.0 +57 26.1 8.6 ✓ ^{2° NW superposed}

Identified by J. B. M. March 13, 1913

Checked by A. M. C. March 15, 1913

card made out by M. C. W.

✓ 48 +52 353 1 20.8 +52 22 8.5 113 on J38000
 ✓ 49 +54 417 1 46.6 +54 57 8.2 92 on J37000
 ✓ 50 +52 421 1 34.5 +52 9 7.0 27 on B3260

Thursday, May 13, 1913.

Time: 10.32

138185 long ship.

No.	Int.	Class	Remark
1	2	Ao	
2	3	Ao	
3	1	fo	
4	2	A3	
5	1	A3	
6	2	fo	
7	1	F	
8	2	Ao	Another star superposed at north.
9	3	Ao	
10	1	fo	
11	2	A2	
12	2	F	
13	1	fo	
14	2	Ao	Another star of same class superposed on foliade.
15	3	fo	
16	1	A2	
17	2	Ao	
18	1	fo	
19	1	A2	
20	2	Ao	Another star superposed at north.
21	2	Ao	
22	3	ma	
23	3	Ao	
24	2	Ao	
25	2	fo	Partly superposed on 24.
26	3	fo	
27	1	fo	

1	+24°	1276	6	19.4	+24	45.6	8.3	✓
2	+25°	1287	6	19.8	+25	42.5	8.0	✓
3	+25°	1292	6	20.4	+25	24.0	8.3	✓
4	+25°	1299	6	21.4	+25	14.5	8.7	✓
5	+24°	1281	6	20.8	+24	33.9	9.0	✓
6	+24°	1294	6	22.0	+24	28.5	8.7	✓
7	+24°	1303	6	24.4	+24	8.6	8.8	✓
8	+24°	1309	6	25.3	+24	8.9	9.2	✓
9	+23°	1407	6	25.8	+23	18.7	9.0	✓
10	+23°	1398	6	24.7	+23	16.8	8.5	✓
11	+23°	1399	6	24.7	+23	30.4	9.0	✓
12	+22°	1377	6	24.6	+23	38.1	6.8	✓
13	+22°	1383	6	25.2	+22	26.7	8.7	✓
14	+24°	1315	6	26.0	+24	24.0	9.14	+24° 1316 superposed.
15	+23°	1326	6	26.1	+25	1.5	7.6	✓
16	+24°	1321	6	27.7	+24	32.1	9.0	✓
17	+24°	1322	6	27.8	+24	17.8	8.8	✓
18	+24°	1326	6	28.2	+24	31.0	8.8	✓
19	+24°	1331	6	29.1	+24	57.5	8.7	✓
20	+24°	1338	6	30.1	+24	40.1	8.8	✓
21	+25°	1362	6	30.5	+25	11.3	7	✓
22	+25°	1382	6	32.1	+25	27.4	8.0	✓
23	+24°	1353	6	32.3	+24	47.7	8.8	✓
24	+24°	1354	6	32.4	+24	13.2	8.5	✓
25	+24°	1388	6	32.4	+24	5.8	8.0	✓
26	+20°	1488	6	32.1	+33	18.0	8.7	✓
27	+23°	1451	6	31.6	+23	46.5	8.8	✓

cards made out

Thursday, Mar. 13, 1913
I 38185 long disp.

No.	Int.	Class	Remark
28	2	A ₂	
29	1	A ₃	
30	1	F ₅	
31	1	F ₅	
32	1	A ₅	
33	1	A ₂	
34	3	B ₈	It seems strong for this class
35	1	F ₆	
36	2	A ₂	The preceding of two.
37	2	M ₂	
38	1	F ₇	
39	10+	F ₁₀	
40	3	F ₁₂	
41	2	F ₈	
42	1	A ₅	
43	2	F ₁₀	
44	3	A ₀	
45	1	F ₁	
46	2	F ₅	
47	4	A ₂	
48	7	A ₂	
49	3	A ₀	
50	1	F ₆	
51	4	A ₃	
52	6	F ₆	
53	1	F ₈	Probably superposed on 52.
54	7	A ₂	

28	+23°	1440	6	30.5	+23	34.0	89	✓
29	+20°	1443	6	30.9	+23	25.5	93	✓
30	+22°	1448 ⁶	6	33.7 34.6	+22	37.5 37.8	92	✓
31	+22°	1448 ⁵	6	33.8 34.9	+22	35.6 36.1	91	✓
32	+22°	1450	6	35.0	+22	36.2	87	✓
33	+22°	1453	6	35.7	+22	43.0	85	✓
34	+22°	1458	6	36.2	+22	16.7	88	✓
35	+22°	1508	6	44.9	+22	56.9	85	✓
36	+22°	1523	6	48.6	+22	17	88	✓
37	+25°	1392	6	33.2	+25	35.4	78	✓
38	+20°	1393	6	33.4	+25	29.9	88	✓
39	+25°	1406	6	35.0	+25	16.0	82	✓
40	+24°	1386	6	36.5	+24	48.2	78	✓
41	+23°	1420	6	35.1	+23	34.9	85	✓
42	+23°	1489	6	36.8	+23	59.9	89	✓
43	+23°	1493	6	37.8	+23	58.8	84	✓
44	+25°	1404	6	39.1	+24	18.3	86	✓
45	+24°	1406	6	39.6	+24	31.1	80	✓
46	+24°	1417	6	41.4	+24	19.3	83	✓
47	+25°	1446	6	40.8	+25	38.7	72	✓
48	+27°	1236	6	40.1	+27	20.6	72	✓
49	+27°	1240	6	41.0	+27	9.9	82	✓
50	+26°	1070	6	41.8	+26	28.2	80	✓
51	+26°	1378 ⁵	6	42.9	+26	34.6	81	✓
52	+28°	1468	6	42.0	+28	55.4	73	✓
53	+26°	1371	6	42.0	+26	4.2	87	✓
54	+25°	1469	6	43.0	+25	52.0	70	✓

cards made out

Thursday, Mar. 13, 1913.

I 38185 long disp.

No.	Lat.	Class	Remark
55	4	Fo	
56	5	As	Line 4677 + other metallic lines strong.
57	1	Fo	
58	1	As	
59	1	As	
60	2	As	
61	1	As	
62	2	F8	
63	6	F8	
64	1	F8	
65	4	F30	
66	7	Fo	
67	4	As	
68	1	As	Partly superposed on 70.
69	5	As	
70	5	As	
71	1	F2	
72	1	F10	
73	3	F5	
74	7	F5	
75	8	F39	
76	3	As	
77	7	As	
78	5	As	
79	5	As	
80	2	As	
81	1	As	

55	+25°	1479	6	43.9	+25	55.5	7.5	✓
56	+25°	1482	6	44.2	+25	57.3	7.5	✓
57	+25°	1458	6	41.8	+25	4.8	8.6	✓
58	+24°	1427	6	42.8	+25	47.9	8.8	✓
59	+25°	1478	6	43.8	+25	6.9	8.5	✓
60	+25°	1468	6	42.9	+25	22.8	9.1	✓
61	+24°	1440	6	45.0	+25	34.6	9.0	✓
62	+24°	1442	6	45.1	+25	6.1	8.7	✓
63	+24°	1451	6	45.9	+24	25.5	6.8	✓
64	+24°	1452	6	46.0	+24	1.2	8.6	✓
65	+24°	1457	6	46.8	+24	11.2	7.5	✓
66	+25°	1496	6	46.4	+25	32.6	6.2	✓
67	+25°	1502	6	47.2	+25	11.2	7.5	✓
68	+25°	1507	6	48.0	+25	2.1	8.6	✓
69	+24°	1470	6	48.1	+24	49.8	7.0	✓
70	+25°	1509	6	48.2	+25	2.3	7.5	✓
71	+24°	1477	6	49.0	+24	59.3	9.0	✓
72	+25°	1517	6	49.3	+25	9.6	7.8	✓
73	+25°	1519	6	49.6	+25	6.7	7.8	✓
74	+26°	1505	6	49.8	+26	15.8	6.2	✓
75	+26°	1411	6	50.5	+26	5.8	6.5	✓
76	+25°	1540	6	52.8	+25	46.3	8.3	✓
77	+25°	1542	6	53.2	+25	37.6	7.0	✓
78	+25°	1545	6	53.5	+25	32.6	7.5	✓
79	+26°	1387	6	48.5	+26	43.3	7.5	✓
80	+26°	1388	6	45.9	+26	17.0	8.8	✓
81	+26°	1392	6	46.3	+26	42.6	9.0	✓

cards made out

Thursday, Mar. 12, 1913

I 38185 long exp.

No. Lat. Class Remark

82	5	A ₂	
83	7	B ₉	
84	1	A	E.
85	5	A ₀	E
86	5	A ₁	E.
87	6	A ₀	E.
88	4	B ₉	E.
89	2	A ₂	E.
90	2	A ₀	
91	1	A ₁	
92	2	A ₁	
93	2	A ₁	
94	8	A ₁	
95	1	A ₁	
96	6	A ₀	
97	7	A ₂	
98	3	A ₀	
99	1	A ₁	
100	3	A ₂	
101	2	A ₁	
102	2	A ₁	
103	2	A ₂	
104	2	A ₁	
105	1	A ₀	
106	4	A ₂	
107	2	A ₁	
108	1	A ₀	

H-88

82	+27°	12.69	6	46.7	+27	25.7	8.2	✓
83	+27°	12.70	6	46.9	+27	27.8	7.5	✓
84	+27°	12.76	6	46.0	+27	57.7	8.8	✓
85	+27°	12.92	6	51.2	+27	5.0	7.8	✓
86	+27°	12.96	6	51.9	+27	20.9	7.3	✓
87	+27°	13.01	6	52.4	+27	54.7	8.2	✓
88	+26°	14.27	6	52.6	+26	46.4	8.4	✓
89	+26°	14.24	6	52.2	+26	21.8	8.9	✓
90	+25°	15.10	6	48.2	+25	46.1	8.8	✓
91	+26°	14.04	6	48.9	+26	44.4	8.8	✓
92	+27°	12.80	6	48.8	+27	2.9	9.0	✓
93	+27°	12.81	6	49.0	+27	11.7	8.0	✓
94	+27°	11.22	6	19.9	+27	3.3	7.0	✓
95	+27°	11.17	6	19.4	+27	42.0	7.7	✓
96	+28°	11.33	6	20.5	+28	52.1	8.0	✓
97	+28°	11.38	6	21.2	+28	18.3	6.8	✓
98	+28°	11.42	6	22.5	+28	28.6	8.0	✓
99	+27°	11.41	6	23.9	+27	55.5	7.5	✓
100	+28°	11.54	6	24.0	+28	11.3	7.6	✓
101	+28°	11.56	6	24.2	+28	10.8	8.4	✓
102	+28°	11.60	6	24.6	+28	5.1	7.8	✓
103	+27°	11.44	6	24.2	+27	22.6	8.8	✓
104	+27°	11.48	6	24.9	+27	9.0	8.0	✓
105	+27°	11.53	6	25.7	+27	9.3	8.9	✓
106	+26°	12.61	6	23.2	+26	17.2	8.2	✓
107	+26°	12.54	6	21.8	+26	44.1	8.0	✓
108	+25°	12.02	6	21.7	+25	58.5	8.5	✓

cards made out

Thursday, March 13, 1913.
 ± 30 to 105 long exp.

No.	Ext	Class	Remark
109	1	A	
110	1	F ₂	
111	3	A	Lens under. But stars probably come spectrum
112	2	F ₂	
113	6	F ₂	
114	2	F ₂	
115	1	F ₂	
116	4	A	
117	2	A	
118	1	F ₂	
119	1	F ₂	
120	2	F ₂	
121	4	F ₂	
122	3	A	
123	1	A	
124	1	F ₂	
125	2	A	
126	1	F ₂	
127	2	A	
128	3	A	
129	6	B ₂	
130	6	F ₂	
131	3	A	
132	2	F ₂	
133	2	F ₂	
134	1	F ₂	
135	3	A	

109	$+25^{\circ}$	1301	6	21.5	$+25$	46.6	9.0	✓
110	$+25^{\circ}$	1314	6	23.9	$+25$	56.8	8.0	✓
111	$+25^{\circ}$	1217	6	24.2	$+25$	22.9	8.3	✓
112	$+26^{\circ}$	1286	6	27.1	$+26$	50.3	9.0	✓
113	$+27^{\circ}$	1164	6	27.4	$+27$	22.6	6.8	✓
114	$+27^{\circ}$	1169	6	27.9	$+27$	50.5	8.6	✓
115	$+26^{\circ}$	1184	6	28.2	$+28$	5.4	8.9	✓
116	$+27^{\circ}$	1181	6	29.5	$+27$	1.4	8.0	✓
117	$+26^{\circ}$	1300	6	29.6	$+26$	37.7	8.7	✓
118	$+25^{\circ}$	1353	6	29.4	$+25$	52.5	8.6	✓
119	$+25^{\circ}$	1361	6	30.4	$+25$	59.0	8.5	✓
120	$+26^{\circ}$	1317	6	32.0	$+26$	48.5	8.2	✓
121	$+27^{\circ}$	1198	6	32.7	$+27$	12.7	8.5	✓
122	$+27^{\circ}$	1195	6	32.7	$+27$	33.5	8.5	✓
123	$+27^{\circ}$	1207	6	34.4	$+27$	13.9	9.3	✓
124	$+27^{\circ}$	1214	6	34.2	$+27$	4.5	8.6	✓
125	$+26^{\circ}$	1032	6	33.9	$+26$	33.3	9.0	✓
126	$+26^{\circ}$	1322	6	32.9	$+26$	26.1	9.0	✓
127	$+25^{\circ}$	1390	6	33.1	$+25$	57.2	9.1	✓
128	$+26^{\circ}$	1345	6	36.5	$+26$	29.0	8.5	✓
129	$+27^{\circ}$	1212	6	35.1	$+27$	37.2	8.2	✓
130	$+27^{\circ}$	1219	6	36.5	$+27$	48.8	7.2	✓
131	$+27^{\circ}$	1222	6	37.2	$+27$	57.6	8.7	✓
132	$+27^{\circ}$	1226	6	38.2	$+27$	16.5	8.2	✓
133	$+26^{\circ}$	1351	6	38.2	$+26$	43.3	8.5	✓
134	$+26^{\circ}$	1350	6	38.1	$+26$	27.1	8.6	✓
135	$+26^{\circ}$	1355	6	38.5	$+26$	16.5	8.5	✓

$+26^{\circ}$ 1032
 superposed

Cards made out

Thursday, May 13, 1913

H I 38185 long disp

No. Int. Class Remark

136	1	A	
137	2	Ao	
138	2	As	
139	2	As E.	
140	1	As E.	
141	1	As	
142	2	As	
143	2	Ao	
144	2	As	
145	2	As	
146	1	As	

Time: 11.36

~~147~~
~~148~~
 1

147	6	As	
148	9	Ao	
149	8	As	

136	+27°	1230	6	37.8	+27	4.4	9.2	✓
137	+26°	1358	6	39.1	+26	52.5	8.8	✓
138	+28°	1217	6	34.5	+28	31.8	8.3	✓
139	+29°	1345	6	37.7	+29	0.9	8.8	✓
140	+29°	1351	6	39.1	+29	20.4	8.2	✓
141	+28°	1248	6	40.6	+28	28.4	8.3	✓
142	+28°	1271	6	44.8	+28	33.6	8.0	✓
143	+27°	1265	6	45.4	+27	37.1	8.5	✓
144	+27°	1264	6	46.2	+27	31.9	8.7	✓
145	+28°	1247	6	40.2	+28	41.5	8.2	✓
146	+28°	1234	6	38.4	+28	20.5	8.8	✓

Identified by W. C. W. May 1, 1913.
 Checked by AME. May 3, 1913
 cards made out by W. C. W.
 Cards checked by AME.

147	+24°	1332	6	29.4	+24	3.4	7.0	
148	+29°	1293	6	39.3	+29	6	6.2	✓
149	+28°	1196	6	30.4	+28	8.3	6.0	✓

Cards made out by AME. Oct. 7, 1915
 Cards checked by S. R. B. Oct. 7, 1915.

Thursday, Mar 13, 1913.

Time: 11.16

I 37740 long exp.

No. Int. Class Remarks

1	3	A ₂	E.
2	2	A ₂	E.
3	2	A ₃	
4	2	F ₀	
5	3	F ₀	
6	1	F ₅	
7	1	G ₅	
8	1	A ₀	
9	2	A ₀	
10	2	A ₂	
11	2	F ₂	
12	2	F ₂	
13	1	G ₅	
14	1	F ₅	
15	4	G ₀	
16	3	A ₀	
17	1	A	Nearly all superposed on 16.
18	2	A ₂	
19	1	A	
20	1	A	
21	3	A ₂	
22	3	F ₀	
23	1	A	
24	4	A ₀	
25	4	F ₂	
26	3	A ₀	
27	3	A ₀	

1	+25°	1034	5	47.3	+25	12.0	7.9	✓
2	+26°	1011	5	48.3	+26	49.7	8.0	✓
3	+26°	1018	5	49.3	+26	10.6	8.8	✓
4	+25°	1053	5	49.2	+25	32.9	8.3	✓
5	+25°	1069	5	51.4	+25	54.7	8.5	✓
6	+28°	965	5	50.8	+28	44.2	8.7	✓
7	+29°	1089	5	54.5	+29	22.8	8.4	✓
8	+29°	1094	5	55.0	+29	30.9	8.7	✓
9	+26°	979	5	52.5	+26	12.1	9.0	✓
10	+27°	958	6.5	53.4	+27	24.1	9.1	✓
11	+27°	963	6.5	54.3	+27	38.3	8.7	✓
12	+26°	1039	6.5	53.4	+26	25.2	8.6	✓
13	+25°	1079	6.5	52.6	+25	28.5	8.9	✓
14	+25°	1099	6.5	55.2	+25	5.7	8.5	✓
15	+24°	1126	6	0.4	+24	26.7	8.24 + 24' 11.25 superposed magn. 9.4	
16	+24°	1124	6	0.5	+24	26.3	8.5	✓
17	+24°	1122	6	0.6	+24	44.7	9.3	✓
18	+24°	1132	6	0.8	+24	9.8	9.3	✓
19	+24°	1143	6	1.6	+24	33.5	9.1	✓
20	+24°	1138	6	1.0	+24	38.2	9.0	✓
21	+26°	1116	6	1.6	+26	28.1	8.7	✓
22	+27°	1026	6	0.4	+27	12.6	8.0	✓
23	+27°	1012	6	2.5	+27	5.6	8.9	✓
24	+27°	1013	6	2.7	+27	9.8	8.2	✓
25	+27°	1019	6	3.9	+27	27.5	8.5	✓
26	+26°	1122	6	2.6	+26	43.0	8.3	✓
27	+26°	1127	6	3.0	+26	30.3	8.5	✓

Cande in ade out

Thursday, Mar. 13, 1913.

I 37440 long axis

W.	Lat.	Class	Remarks
28	2	A2	
29	1	A	
30	1	A	
31	1	F2	
32	2	F2	
33	1	A5	
34	2	A2	
35	1	F2	
36	1	F2	
37	1	F	
38	2	A2	
39	2	F2	
40	4	A0	
41	2	A0	
42	6	A0	
43	2	F2	
44	6	F2	
45	2	F2	
46	1	A2	
47	1	A5	
48	4	B9	
49	4	A0	
50	2	A0	
51	3	A0	
52	2	F2	
53	1	F5	
54	1	F5	

28	+25°	1159	6	37	+25	43.4	85	✓
29	+25°	1160	6	37	+25	40.4	9.1	✓
30	+25°	1164	6	38	+25	42.9	8.9	✓
31	+25°	1174	6	39	+25	46.8	8.2	✓
32	+25°	1191	6	40	+25	52.3	8.4	✓
33	+26°	1148	6	41	+26	42.7	9.0	✓
34	+26°	1150	6	42	+26	27.7	8.5	✓
35	+26°	1156	6	43	+26	32.5	8.2	✓
36	+27°	1028	6	44	+27	38.9	8.2	✓
37	+28°	1052	6	45	+28	38	8.7	4
38	+28°	1038	6	46	+28	47.6	8.3	✓
39	+27°	1036	6	47	+27	54.5	8.0	✓
40	+28°	1058	6	48	+28	14.5	7.8	✓
41	+28°	1060	6	49	+28	18.2	8.5	✓
42	+28°	1071	6	50	+28	3.1	7.3	✓
43	+28°	1073	6	51	+28	6.3	8.0	✓
44	+27°	1054	6	52	+27	15.3	7.1	✓
45	+26°	1069	6	53	+26	29.0	8.0	✓
46	+27°	1045	6	54	+27	7.2	7.1	✓
47	+27°	1049	6	55	+27	14.4	9.0	✓
48	+27°	1060	6	56	+27	2.5	8.4	✓
49	+27°	1066	6	57	+27	26.5	8.3	✓
50	+27°	1069	6	58	+27	30.3	9.0	✓
51	+26°	1185	6	59	+26	37.6	8.3	✓
52	+25°	1223	6	60	+25	43.2	7.9	✓
53	+25°	1226	6	61	+25	45.8	8.7	✓
54	+25°	1232	6	62	+25	4.0	8.8	✓

Cards made out

Thursday, May 13, 1913.

I 37440 long exp.

No.	Int.	Class	Remark
55	2	B ₉	
56	3	A ₃	
57	2	A ₅	
58	2	B	Almost cont
59	3	A ₂	
60	2	F ₀	
61	1	A	
62	2	A ₂	
63	2	A ₂	
64	2	A ₀	
65	2	A ₂	
66	13	A ₂	
67	1	F ₀	
68	7	A ₃	
69	1	F ₀	
70	2	A	
71	5	A ₀	
72	3	B ₉	
73	6	A ₀	
74	1	F ₂	
75	1	A ₃	
76	4	A ₀	
77	2	F ₂	
78	2	A ₀	
79	6	A ₀	
80	3	A ₀	
81	4	B ₈	

55	+25°	123.6	6	13.4	+25	32.4	8.5	✓
56	+26°	130.4	6	14.0	+26	3.3	8.1	✓
57	+25°	124.9	6	14.9	+25	19.1	8.7	✓
58	+25°	125.1	6	15.1	+25	29.2	8.4	✓
59	+25°	127.8	6	17.1	+25	34.8	8.8	✓
60	+24°	126.3	6	17.4	+24	47.5	8.9	✓
61	+24°	126.4	6	17.9	+24	58.0	9.1	✓
62	+25°	127.6	6	18.1	+25	1.4	8.9	✓
63	+25°	127.8	6	18.3	+25	27.3	9.1	✓
64	+25°	127.0	6	18.6	+25	36.3	8.8	✓
65	+27°	112.1	6	19.7	+27	15.9	9.2	✓
66	+27°	112.8	6	20.6	+27	38	9.0	✓
67	+27°	113.0	6	21.1	+27	2.4	8.9	✓
68	+28°	107.8	6	10.8	+28	27.1	7.0	✓
69	+27°	108.0	6	11.2	+28	78	8.6	✓
70	+27°	106.8	6	11.2	+27	40.7	8.7	✓
71	+26°	120.1	6	13.4	+26	44.6	8.3	✓
72	+27°	109.1	6	14.1	+27	14.9	8.2	✓
73	+27°	109.2	6	14.4	+27	11.2	7.8	✓
74	+26°	120.5	6	14.6	+26	51.4	8.7	✓
75	+27°	108.9	6	13.9	+27	30.7	8.4	✓
76	+27°	109.0	6	14.0	+27	47.7	7.8	✓
77	+28°	109.7	6	13.4	+28	3.2	7.5	✓
78	+28°	109.5	6	13.3	+28	11.1	8.8	✓
79	+28°	109.9	6	13.8	+28	40.8	7.7	✓
80	+28°	110.0	6	14.1	+28	58.6	8.3	✓
81	+28°	111.1	6	14.2	+28	49.3	8.3	✓

Cando m a d e out

Thursday, Mar 13, 1913

I 37 440 long disp.

No. Int. Class Remark

82	2	Fo
83	5	As
84	2	As
85	3	As
86	4	As
87	2	As
88	2	Fo
89	5	As
90	3	Fo E.
91	2	As E.
92	2	Fo E.
93	1	As
94	1	As
95	2	As
96	1	As
97	1	As
98	2	As
99	2	As
100	1	Fo
101		

June 1136

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Partly superseded on 98.

82	+28°	1094	6	13.2	+28	58.3	7.7	✓
83	+28°	1109	6	15.9	+28	6.1	7.7	✓
84	+28°	1110	6	15.9	+28	38.2	5.5	✓
85	+29°	1226	6	18.0	+29	25.5	8.7	✓
86	+29°	1228	6	18.2	+29	42.8	8.0	✓
87	+29°	1221	6	17.1	+29	43.0	8.7	✓
88	+29°	1231	6	18.8	+29	17.6	7.6	✓
89	+29°	1241	6	20.1	+29	34.0	8.0	✓
90	+29°	1248	6	21.5	+29	53.3	8.3	✓
91	+29°	1258	6	23.1	+29	28.3	8.7	✓
92	+29°	1263	6	23.8	+29	30.2	8.2	✓
93	+30°	1256	6	23.8	+30	25.3	8.0	✓
94	+29°	1180	6	11.0	+29	33.2	8.8	✓
95	+29°	1187	6	11.6	+29	37.9	8.7	✓
96	+30°	1132	6	0.9	+30	3.0	8.5	✓
97	+30°	1133	6	0.9	+30	34.4	7.8	✓
98	+30°	1134	6	1.0	+30	27.8	8.0	✓
99	+28°	1125	6	18.9	+28	41.5	8.7	✓
100	+27°	1106	6	17.7	+27	46.3	9.1	✓

Identified by M. C. W. April 18, 1913.

Checked by Amc. April 21, 1913

Cards made out by M. C. W.

Cards checked by G. R. B.

Friday, Mar. 14, 1913.

Time: 9.46

T 37478 long strip

No. Int. Class Remarks

1	1	H ₂	
2	1	H ₂	
3	2	H ₂	
4	2	H ₂	
5	1	F	
6	1	A ₀	
7	2	A ₀	
8	1	H ₂	
9	2	A ₂	
10	3	A ₀	
11	3	by C. Frazer	
12	2	H ₂	
13	1	A ₂ E.	
14	1	H ₂ E.	
15	1	H ₂	
16	1	A ₀	
17	5	A ₂	
18	8	B ₃	
19	1	H ₂	
20	4	H ₂	
21	4	F ₂	
22	3	A ₀	

9.53

23
24
25
26
27

1	+30°	1369	6	48.0	+30	47.2	8.1	✓
2	+29°	1403	6	46.9	+29	44.4	8.5	✓
3	+28°	1287	6	49.8	+28	57.4	8.5	✓
4	+30°	1387	6	50.9	+30	28.8	7.5	✓
5	+29°	1421	6	50.0	+29	29.4	8.9	N
6	+29°	1433	6	52.4	+29	35.3	8.9	✓
7	+29°	1434	6	52.7	+29	51.9	8.5	✓
8	+30°	1404	6	53.2	+30	4.5	8.7	✓
9	+29°	1451	6	56.0	+29	56.1	8.5	✓
10	+29°	1459	6	56.4	+29	43.6	8.3	✓
11	+25°	1524	6	50.5	+25	25.6	8.2	Auth. A. J. C.
12	+26°	1435	6	53.4	+26	26.6	8.7	✓
13	+25°	1534	6	54.3	+25	30.9	8.3	✓
14	+25°	1528	6	57.6	+25	18.1	8.2	✓
15	+27°	1308	6	57.8	+27	2.6	8.2	✓
16	+27°	1307	6	56.6	+27	13.4	8.0	✓
17	+28°	1310	6	57.1	+28	25.2	7.8	✓
18	+28°	1314	6	58.3	+28	25.0	6.8	✓
19	+30°	1423	6	58.9	+30	2.1	8.6	✓
20	+30°	1431	6	0.1	+30	22.6	7.5	✓
21	+30°	1480	6	59.9	+30	38.9	7.8	✓
22	+29°	1466	6	59.9	+29	10.8	8.6	✓

Identified by Mr. C. W. April 19, 1913.
 Checked by AMC. April 25, 1913
 corrected by Mr. C. W.

Friday, Nov. 14, 1913.

Time: 9.54

I 38172 long disp.

No.	Int.	Class	Remark
1	3	F5	
2	2	F2	
3	2	A3	
4	5	L5	
5	4	F5	
6	1	L5	
7	2	A2	
8	3	F5	
9	2	A3	
10	3	A3	
11	10	A2	
12	4	F5	
13	3	F5	
14	2	A3	
15	1	F5	
16	1	M	
17	8	A3	
18	1	A5	
19	2	A2	
20	8	F5	
21	4	F2	
22	1	F5	
23	1	F5	
24	1	L5	
25	1	A3	
26	1	A	
27	2	F5	

1	+24°	1546	7	1.7	+24	19.6	7.8	✓
2	+23°	1617	7	0.5	+23	52.8	8.3	✓
3	+25°	1590	7	0.4	+25	28.6	8.5	✓
4	+25°	1594	7	0.7	+25	57.8	7.0	✓
5	+25°	1595	7	0.8	+25	57.6	7.7	✓
6	+26°	1463	6	59.8	+26	51.0	8.9	✓
7	+26°	1464	6	59.9	+26	58.6	8.8	✓
8	+26°	1470	6.7	0.7	+26	44.3	7.7	✓
9	+26°	1471	7	1.1	+26	25.6	8.5	✓
10	+27°	1323	7	1.1	+27	17.7	8.8	✓
11	+27°	1327	7	2.4	+27	6.6	5.7	✓
12	+26°	1481	7	2.5	+26	38.5	7.0	✓
13	+26°	1487	7	3.6	+26	49.5	7.8	✓
14	+25°	1598	7	2.2	+25	33.0	8.5	✓
15	+25°	1597	7	1.8	+25	15.5	9.0	✓
16	+24°	1549	7	2.4	+24	54.0	8.3	✓
17	+25°	1609	7	3.9	+25	59.1	7.2	✓
18	+26°	1485	7	3.4	+26	3.5	8.7	✓
19	+27°	1336	7	3.5	+27	19.6	9.1	✓
20	+27°	1337	7	3.8	+27	30.1	6.8	✓
21	+28°	1340	7	4.0	+28	1.2	8.3	✓
22	+28°	1341	7	4.7	+28	12.0	9.0	✓
23	+27°	1341	7	4.9	+27	54.4	9.1	✓
24	+26°	1495	7	5.8	+26	53.4	8.8	✓
25	+27°	1340	7	6.0	+27	0.8	9.1	✓
26	+26°	1497	7	6.1	+26	14.5	8.5	✓
27	+26°	1498	7	6.2	+26	7.8	8.0	✓

Cords ma de aut

Friday, May 14, 1913.

7 I 3 R 172 long disp.

No. Int. Class Remark

28	7	h ₅	
29	4	h ₆	
30	3	h ₆	
31	3	h ₆	
32	3	h ₅	
33	3	h ₆	
34	5	h ₆	
35	4	h ₆	
36	3	A ₂	
37	2	A ₂	
38	1	A ₀	
39	1	A	
40	1	F	
41	3	F ₂	
42	2	A ₀	
43	5	h ₆	
44	5	A ₀	
45	2	F ₂	
46	3	F ₅	
47	1	F ₂	
48	2	F ₀	
49	8	A ₂	
50	2	h ₆	
51	1	h ₆	
52	3	F ₂	
53	1	F	
54	9	F ₀	

28	+26 ⁰	150.8	7	8.1	+26	56.7	6.5	1
29	+26 ⁰	151.0	7	8.3	+26	57.4	7.5	✓
30	+26 ⁰	151.2	7	9.0	+26	58.4	7.6	✓
31	+27 ¹	135.4	7	9.0	+27	23.0	7.5	✓
32	+27 ⁵	135.6	7	9.4	+27	31.9	8.1	✓
33	+27 ⁰	136.0	7	10.2	+27	16.1	8.5	✓
34	+27 ⁰	136.2	7	10.5	+27	5.2	7.2	1
35	+26 ⁰	151.7	7	10.8	+26	12.0	8.0	1
36	+25 ⁴	163.6	7	9.8	+25	50.0	8.6	✓
37	+25 ⁴	164.4	7	12.2	+25	56.6	8.5	✓
38	+25 ⁵	164.5	7	12.3	+25	18.4	7.0	✓
39	+25 ⁵	165.1	7	12.9	+25	10.3	9.0	✓
40	+25 ⁰	164.9	7	12.7	+25	28.7	8.5	✓
41	+26 ⁰	153.2	7	12.8	+26	7.4	8.2	✓
42	+26 ⁰	153.8	7	12.8	+26	12.5	8.8	✓
43	+26 ⁰	153.1	7	12.6	+26	25.5	7.9	✓
44	+26 ⁰	152.8	7	12.3	+26	45.4	8.0	✓
45	+26 ⁰	152.5	7	11.9	+26	52.6	8.3	✓
46	+27 ⁰	136.9	7	12.5	+27	21.3	8.2	✓
47	+27 ⁰	136.8	7	12.1	+27	26.7	9.1	✓
48	+27 ⁰	136.7	7	11.9	+27	26.5	9.0	✓
49	+28 ⁰	136.7	7	11.3	+28	22.0	7.6	✓
50	+29 ⁰	151.4	7	12.4	+29	14.3	8.3	✓
51	+28 ⁰	137.5	7	14.3	+28	59.8	8.8	✓
52	+28 ⁰	137.7	7	14.9	+28	9.5	7.9	✓
53	+28 ⁰	137.8	7	15.2	+28	6.7	8.8	✓
54	+27 ¹	137.4	7	15.5	+27	55.0	6.9	✓

Cards made out

Friday, Mar. 14, 1913.

± 32172 long exp.

No. Lat. Class Remark

55	2	As	
56	10+	As	
57	4	As	
58	4	As	
59	7	As	
60	7	As	
61	2	As	
62	1	As	
63	1	Ma	The following of two.
64	1	As	
65	1	As	
66	2	As	
67	3	As	
68	4	As	
69	3	As	
70	2	As	
71	1	As	
72	5	As	
73	2	As	
74	2	As	
75	1	As	
76	1	As	e. b. 10.
77	4	As	
78	3	As	
79	3	As	
80	6	As	
81	2	Ma	

55	+27°	1376	7	15.7	+27	27.7	8.7	✓
56	+28°	1385	7	16.7	+28	5.1	4.0	✓
57	+27°	1387	7	18.3	+27	34.9	8.2	✓
58	+27°	1389	7	18.8	+27	24.9	8.1	✓
59	+27°	1395	7	19.7	+27	50.5	7.1	✓
60	+26°	1564	7	19.1	+26	20.6	7.3	✓
61	+25°	1659	7	14.5	+25	47.2	8.8	✓
62	+27°	1371	7	14.4	+27	6.1	9.0	✓
63	+26°	1554	7	17.4	+26	12.8	8.5	✓
64	+27°	1394	7	19.6	+27	6.8	8.7	✓
65	+26°	1566	7	19.9	+26	53.7	8.9	✓
66	+27°	1397	7	20.6	+27	13.2	8.3	✓
67	+27°	1405	7	23.1	+27	24.8	8.9	✓
68	+27°	1406	7	23.2	+27	25.5	8.0	✓
69	+27°	1409	7	23.8	+27	57.2	8.5	✓
70	+27°	1411	7	24.2	+27	44.3	8.8	✓
71	+26°	1587	7	24.0	+26	18.4	8.7	✓
72	+26°	1588	7	24.3	+26	23.8	7.8	✓
73	+26°	1580	7	22.8	+26	5.9	8.5	✓
74	+25°	1613	7	20.0	+25	33.2	8.4	✓
75	+25°	1689	7	21.6	+25	44.3	8.3	✓
76	+24°	1686	7	23.1	+24	44.8	8.8	✓
77	+24°	1683	7	22.9	+24	18.8	8.0	✓
78	+20°	1737	7	25.0	+23	57.6	8.3	✓
79	+24°	1617	7	20.0	+24	15.5	8.2	✓
80	+25°	1709	7	26.0	+25	14.6	8.0	✓
81	+24°	1705	7	26.2	+24	35.3	7.5	✓

Cards made out

Friday, May 14, 1913.

I 31172 long strip

No.	Int.	Class	Remarks
82	1	F2	
83	4	F5	
84	2	F6	
85	2	F6	
86	3	F6	
87	1	F6	
88	1	F5	
89	6	F8	E.
90	2	F6	E.
91	3	F5	
92	4	A0	
93	4	A0	
94	1	A0	
95	1	A	
96	3	A2	
97	10	F6	
98	5	F2	
99	1	A3	
100	1	F6	
101	1	F2	
102	7	A0	
103	1	F6	
104	8	Ma	
105	7	B2	
106	1	F2	
107	1	A2	
108	2.	F5	

82	+24°	1726 ⁰³	7	25.8	24.2	+24	9.7	8.3	✓
83	+24°	1726 ⁰⁶	7	26.3	24.7	+24	9.7	8.3	✓
84	+26°	1601	7	26.4	24.4	+26	8.4	8.4	✓
85	+25°	1713	7	27.1	25.1	+25	13.2	8.2	✓
86	+25°	1716	7	28.1	26.1	+25	18.7	8.5	✓
87	+24°	1718	7	28.3	26.3	+24	13.4	8.3	✓
88	+24°	1725	7	29.2	27.2	+24	7.9	8.7	✓
89	+25°	1738	7	32.3	30.3	+25	18.4	8.6	✓
90	+26°	1625	7	32.4	30.4	+26	13.5	8.5	✓
91	+28°	1319	6	59.2	57.2	+28	26.0	98.0	✓
92	+26°	1320	7	6.2	4.2	+28	17.2	8.3	✓
93	+29°	1466	6	59.9	57.9	+29	10.3	8.6	✓
94	+29°	1469	6	58.3	56.3	+29	12.5	9.2	✓
95	+29°	1457	6	57.8	55.8	+29	8.3	9.2	✓
96	+30°	1456	7	1.2	0.2	+30	35.4	8.1	✓
97	+36°	1439	7	1.9	0.9	+30	29.4	4.7	✓
98	+36°	1442	7	2.2	1.2	+30	42.2	7.8	✓
99	+29°	1470	7	1.9	0.9	+29	53.6	9.0	✓
100	+28°	1337	7	3.6	2.6	+28	44.7	8.7	✓
101	+28°	1336	7	3.3	2.3	+28	26.1	9.0	✓
102	+28°	1342	7	4.7	3.7	+28	44.0	7.7	✓
103	+28°	1346	7	5.6	4.6	+28	41.6	8.5	✓
104	+28°	1350	7	6.9	5.9	+28	8.8	6.5	✓
105	+29°	1489	7	6.9	5.9	+29	30.4	8.0	✓
106	+29°	1491	7	7.4	6.4	+29	29.0	9.0	✓
107	+29°	1495	7	8.3	7.3	+29	15.8	9.5	✓
108	+28°	1356	7	8.9	7.9	+28	45.0	8.6	✓

cards made out

Friday, May 14, 1913.

I 38172 long disp.

No.	Int.	Class	Remark
109	2	F ₂	
109a	2	A ₂	
110	5	F ₀	
111	8	A ₂	
112	4	F ₅	
113	1	F ₅	
114	4	F ₁₂	
115	2	F ₁₀	
116	1	A	Partly unrefracted on 117.
117	2	A ₂	
118	1	F ₈	
119	1	A ₂	
120	2	A ₂ E.	
121	2	F ₅ E.	
122	2	F ₅ E.	
123	1	F ₅ E.	
124	1	F ₅	
125	2	F ₁₀	
126	2	A ₀	
127	1	A	
128	1	A ₅	
129	1	F ₁₀	
130	1	F ₁₀	
131	1	F ₁₅	
132			
133			
134			
135			
132	9	F ₅	
133	12	F ₁₀	

cont. 134. 22

I 38172

109	+28°	135.7	7	9.2	+28	52.6	8.6	✓
109a	+28°	152.6	7	9.7	+29	25.5	8.8	✓
110	+29°	150.5	7	9.9	+29	25.9	8.0	✓
111	+29°	151.1	7	11.7	+29	59.9	7.5	✓
112	+30°	148.8	7	12.9	+30	6.1	8.3	✓
113	+29°	151.6	7	12.1	+29	48.7	8.4	✓
114	+30°	149.0	7	13.4	+30	5.5	7.6	✓
115	+30°	148.9	7	13.0	+30	23.2	8.1	✓
116	+29°	153.1	7	18.0	+29	22.2	9.0	✓
117	+29°	153.2	7	18.0	+29	34.5	8.8	✓
118	+29°	153.3	7	18.4	+29	35.9	8.8	✓
119	+28°	138.6	7	16.9	+28	35.7	9.1	✓
120	+31°	152.1	7	6.8	+31	5.6	8.5	✓
121	+30°	146.6	7	7.2	+30	57.5	8.7	✓
122	+30°	147.4	7	8.7	+30	44.1	8.7	✓
123	+30°	146.8	7	7.4	+30	9.5	8.9	✓
124	+24°	156.2	7	4.2	+24	53.7	8.7	✓
125	+25°	161.3	7	5.1	+25	57.1	9.0	✓
126	+24°	159.9	7	9.0	+24	15.3	8.3	✓
127	+24°	164.8	7	16.7	+24	47.5	8.3	✓
128	+25°	166.9	7	16.8	+25	58.4	9.0	✓
129	+24°	166.7	7	19.9	+24	14.0	8.6	✓
130	+27°	143.0	7	29.5	+27	34.3	9.0	✓
131	+27°	144.0	7	31.0	+27	6.7	8.7	✓
						2.8	8.5	✓

Identified by M. C. W. April 28, 1913.
 Checked by AME April 30, 1913.
 cards made out by M. C. W.
 Cards checked by AME.

132 +25° 166.0 7 14.6 +25 20 8.5 ✓
 133 +27° 143.0 7 31.2 +27 38 8.5 ✓

Saturday, Mar. 22, 1913.

Time 758

B 3152 ^{low} ~~high~~ disp.

10.26 - 6.5

No Int Class Remarks

1	6	Int	
2	7	Co	
3	6	Co	
4	3	Co	
5	10	B3	Focus poor
6	6	B3	
7	2	Fo	
8	4	Fo	
9	4	F2	
10	5	Fo	
11	4	Co	
12	4	Fo	
13	2	B3	
14	4	A	Another star partly superposed.
15	2	Ma	
16	4	B3	
17	2	Co	
18	4	Co	
19	3	Co	
20	3	B3	
21	2	Co	
22	2	F2	
23	4	F2	B3 star shows slight contrast to rest of spectrum.
24	3	Co	Another star superposed.
25	2	Fo	
26	5	B3	
27	2	A	Nearly all superposed on A6.

1	-58°	19.79	10	7.3	-58	12.8	8.2	✓
2	-58°	19.67	10	6.7	-58	32.2	7.7	✓
3	-58°	19.84	10	7.6	-58	32.3	8.1	✓
4	-58°	19.88	10	7.9	-58	59.2	8.4	✓
5	-59°	19.74	10	8.8	-59	18.0	6.4	✓
6	-59°	19.76	10	9.8	-59	38.6	7.8	✓
7	-58°	20.65	10	13.3	-58	43.6	8.5	✓
8	-57°	20.35	10	16.6	-57	51.3	7.9	✓
9	-58°	21.36	10	17.6	-58	9.1	8.1	✓
10	-59°	20.54	10	15.8	-59	1.7	8.1	✓
11	-59°	20.61	10	16.2	-59	0.8	8.3	✓
12	-59°	20.52	10	15.8	-59	15.3	8.6	✓
13	-59°	20.79	10	17.7	-59	32.2	8.8	✓
14	-59°	21.11	10	20.4	-59	9.4	8.6	✓ ^{magn. 8.8}
15	-59°	21.01	10	20.0	-59	32.3	9.1	✓
16	-59°	21.32	10	22.0	-59	20.4	8.3	✓
17	-58°	22.47	10	24.6	-58	31.9	8.8	✓
18	-58°	22.68	10	26.4	-58	4.0	8.0	✓
19	-58°	22.63	10	25.7	-58	22.7	8.1	✓
20	-59°	21.44	10	22.9	-59	18.4	8.4	✓
21	-58°	22.69	10	26.4	-58	36.6	8.8	✓
22	-59°	21.77	10	25.7	-59	6.8	8.6	✓
23	-59°	21.73	10	25.4	-59	17.0	8.6	✓
24	-59°	21.98	10	27.4	-59	12.9	8.0	✓ ^{magn. 9.1}
25	-58°	22.80	10	27.8	-58	57.8	8.8	✓
26	-59°	22.08	10	28.4	-59	28.1	7.6	✓
27	-59°	22.12	10	28.6	-59	7.3	8.6	✓

Cards made out.

Saturday, Mar. 22, 1913.

B 31521 long exp.

No.	Lat.	Class	Remarks
28	3	B	Superficial on eq
29	5	B2	
30	5	B3	
31	2	B9	
32	4	B8	
33	3	B3	
34	4	B5	
35	4	B9	
36	2	B9	
37	3	B5	
38	3	B2	
39	7	A2	
40	2	A0	
41	3	A0	
42	7	A5	
43	9	B9	
44	7	B9	
45	10.5	B3	Too dense.
46	11.5	A0	
47	2	B5	
48	6	B6	
49	2	B5	
50	2	A0	
51	5	A5	
52	3	A0	
53	3	B5	
54	3	B9	

28	-59°	22.39	10	30.2	-59	32.4	8.6	✓
29	-59°	22.35	10	30.1	-59	37.7	8.2	✓
30	-59°	22.92	10	31.5	-59	32.0	8.0	✓
31	-60°	19.62	10	28.0	-60	40.3	8.7	✓
32	-60°	17.47	10	27.6	-60	33.2	8.6	✓
33	-60°	19.67	10	28.5	-60	53.2	8.6	✓
34	-61°	17.24	10	31.5	-61	13.0	8.4	✓
35	-61°	17.50	10	32.9	-61	28.8	8.6	✓
36	-61°	17.66	10	34.4	-61	38.3	8.8	✓
37	-61°	17.72	10	34.9	-61	37.4	8.7	✓
38	-62°	16.95	10	33.7	-62	6.0	8.6	✓
39	-62°	16.79	10	33.6	-62	24.4	8.2	✓
40	-62°	17.18	10	37.4	-62	17.5	8.9	✓
41	-62°	17.28	10	38.7	-62	21.1	8.8	✓
42	-62°	17.20	10	37.5	-62	37.2	8.0	✓
43	-63°	15.42	10	35.0	-63	27.6	7.0	✓
44	-63°	15.83	10	37.1	-63	27.1	7.8	✓
45	-63°	15.89	10	37.8	-63	46.7	5.0	✓
46	-63°	16.13	10	39.0	-63	24.8	7.7	✓
47	-62°	17.31	10	39.1	-62	59.6	8.8	✓
48	-62°	17.49	10	41.8	-62	38.3	8.1	✓
49	-62°	17.46	10	41.5	-62	10.7	8.8	✓
50	-62°	17.39	10	40.8	-62	5.5	8.8	✓
51	-61°	18.90	10	43.7	-61	54.3	8.3	✓
52	-61°	18.88	10	43.4	-61	22.1	8.4	✓
53	-61°	18.98	10	44.5	-61	10.3	8.7	✓
54	-61°	19.04	10	44.9	-61	22.8	8.5	✓

cards made out

55	-60°	23.21	10	46.1	-60	54.6	8.6
56	-61°	19.51	10	48.8	-61	50.2	7.9 ✓
57	-61°	19.22	10	46.6	-61	48.6	8.6 ✓
58	-61°	19.23	10	46.6	-61	42.0	7.1 ✓
59	-62°	17.87	10	46.9	-62	14.5	7.9 ✓
60	-62°	17.44	10	44.2	-62	25.4	7.9 ✓
61	-61°	19.75 19.69	10	51.8 51.8	-61	28 28	8.3 8.3
62	-60°	23.78	10	49.4	-60	6.0	8.3 ✓
63	-59°	25.22	10	49.1	-59	41.1	8.6 ✓
64	-60°	23.59	10	48.3	-60	9.0	7.6 ✓
65	-59°	27.72	10	45.4	-59	58.7	8.3 ✓
66	-60°	23.00	10	43.8	-60	29.0	8.3 ✓
67	-60°	22.65	10	41.1	-60	56.9	8.3 ✓
68	-60°	22.40	10	39.7	-60	42.4	8.3 ✓
69	-60°	22.43	10	39.9	-60	34.6	8.5 ✓
70	-60°	22.44	10	39.9	-60	18.6	8.6 ✓
71	-60°	21.76	10	37.3	-60	24.7	8.6 ✓
72	-60°	21.62	10	36.8	-60	22.6	8.8 ✓
73	-59°	26.93 27.12	10	42.8 42.8	-59	53.0 53.0	8.3 8.3
74	-59°	27.12	10	42.8	-59	57.7	8.1 ✓
75	-59°	27.46	10	44.3	-59	31.2	8.4 ✓
76	-57°	27.91	10	46.4	-59	5.0	8.0 ✓
77	-58°	28.44	10	48.8	-57	43.0	8.4 ✓
78	-58°	28.48	10	48.7	-58	55.0	8.7 ✓
79	-59°	28.58 28.58	10	51.0 51.0	-59	57.7	8.7 ✓
80	-59°	28.63	10	51.2	-59	47.1	7.6 ✓
81	-60°	17.01	10	51.4	-60	50.2	8.4 ✓

Cards made out

Saturday, May 23, 1913

D 2152 long deep

No.	Lat	Class	Remarks
82	8	Bg	Focus poor.
83	3	As	
84	3	As	
85	2	Ma	
86	6	TS	
87	2	Ma	
88	3	As	
89	2	As	
90	1	As	
91	2	As	
92	1	Ma	
93	3	As	
94	3	Bg	
95	2	As	
96	6	D	Focus poor.
97	4	As	
98	2	As	
99	4	As	
100	5	As	
101	4	As	
102	7	As	
103	7	As	
104	6	As	
105	7	As	
106	3	As	
107	3	As	
108	5	Bg	

83	-61°	15.53	10	11.5	-61	54.8	7.2	✓
83	-61°	15.63	10	12.6	-61	44.9	8.4	✓
84	-61°	15.84	10	15.4	-61	34.0	8.6	✓
85	-67°	16.06	10	17.9	-61	13.1	8.6	✓
86	-60°	18.42	10	15.0	-60	28.8	8.0	✓
87	-60°	18.39	10	14.7	-60	45.2	7.2	✓
88	-61°	15.76	10	14.6	-61	2.6	8.7	✓
89	-61°	15.87	10	16.0	-61	1.0	8.9	✓
90	-60°	18.53	10	16.6	-60	18.0	9.1	✓
91	-60°	18.56	10	17.1	-60	26.6	9.1	✓
92	-60°	18.73	10	18.6	-60	2.4	9.1	✓
93	-60°	19.04	10	22.0	-60	9.0	8.8	✓
94	-57°	21.48	10	23.2	-57	53.6	8.4	✓
95	-59°	21.63	10	24.7	-57	57.7	8.8	✓
96	-61°	16.26	10	19.6	-61	22.1	8.7	✓
97	-61°	16.11	10	18.3	-61	43.1	8.5	✓
98	-62°	15.73	10	21.9	-62	13.4	8.9	✓
99	-61°	16.94	10	25.8	-61	58.9	8.6	✓
100	-62°	16.12	10	25.7	-62	4.5	8.3	✓
101	-62°	16.21	10	27.1	-62	19.8	8.4	✓
102	-63°	14.11	10	22.6	-63	43.0	7.8	✓
103	-63°	14.40	10	24.7	-63	31.9	8.1	✓
104	-63°	14.65	10	27.6	-63	17.8	7.8	✓
105	-63°	15.01	10	30.7	-63	29.2	8.1	✓
106	-63°	15.07	10	30.9	-63	34.3	8.4	✓
107	-63°	15.10	10	31.3	-63	38.5	8.5	✓
108	-63°	15.13	10	31.7	-63	35.6	8.2	✓

cards made out

Saturday, Nov. 23, 1913

B31521 long deep

No.	Lat.	Class	Remarks
109	4	A3	
10.26 110	3	A	
111			
112			
111	9	B9	
112	7.5	A5	4200 seen

109	-62°	16.88	10	23.3	-62	53.2	8.3	✓
110	-63°	14.03	10	21.4	-63	28.8	8.3	✓

Identified by Mr. C. W. Aug. 14, 1913.

Checked by AMC Sept. 2, 1913

Cards made out by S. R. B.

Cards checked by AMC.

- 111	-64	1403	10	35.8	-64	27	5.7	56 m B 38834.
- 112	-59	2732	10	43.7	-59	34	7.4	106 m B 43205

Saturday, Nov. 22, 1913.

Time: 11.47

B34089 long dirp 10.07 -60

No. Lat. Class Remarks

1	10	B E.	
2	4	A E.	
3	2	45 E.	
4	6	A E.	
5	4	A E.	
6	2	A ₀	
7	7	F ₅	
8	1	A ₀	
9	7	A ₀	
10	5	A ₀	
11	7	A ₀	
12	7	B ₃₅	
13	3	A ₀	
14	5	B ₃₈	
15	6	B ₃₉	
16	2	A ₀	
17	3	B ₃₉	
18	3	45	
19	5	F ₀	
20	1	h	5, 6, 10.
21	8	F ₀	
22	7	A ₀₅	
23	3	B ₃₈	
24	8	B ₃₈	
25	3	F ₅	
26	5	A ₀₅	
27	5	45	

1	-58°	1576	9	38.8	-58	42.3	4.7	✓
2	-58°	1599	9	34.8	-58	36.8	7.7	✓
3	-58°	1593	9	34.3	-58	30.3	8.0	✓
4	-59°	1434	9	33.9	-59	19.6	7.5	✓
5	-58°	1606	9	36.2	-58	43.1	7.8	✓
6	-58°	1611	9	37.2	-58	28.2	8.2	✓
7	-58°	1634	9	42.1	-58	13.2	7.7	✓
8	-58°	1644	9	42.2	-58	28.1	8.2	✓
9	-58°	1646	9	42.6	-58	46.4	7.1	✓
10	-58°	1667	9	46.0	-58	13.7	7.7	✓
11	-58°	1673	9	47.3	-58	50.3	7.5	✓
12	-57°	2418	9	50.5	-57	89.7	7.1	✓
13	-58°	1707	9	51.5	-58	9.0	7.9	✓
14	-58°	1709	9	51.7	-58	30.8	7.7	✓
15	-57°	2510	9	55.1	-57	31.8	7.7	✓
16	-58°	1766	9	55.7	-58	40.4	8.6	✓
17	-59°	1565	9	54.4	-59	27.0	8.5	✓
18	-60°	1548	9	54.1	-60	9.1	8.6	✓
19	-59°	1590	9	56.0	-59	53.9	8.2	✓
20	-59°	1589	9	55.9	-59	35.0	9.2	✓
21	-59°	1695	9	58.0	-59	49.1	6.8	✓
22	-59°	1752	9	59.0	-59	34.5	7.0	✓
23	-60°	1602	9	58.8	-60	42.1	8.4	✓
24	-61°	1441	9	59.7	-61	16.6	6.8	✓
25	-61°	1431	9	59.0	-61	38.1	8.5	✓
26	-61°	1384	9	55.2	-61	43.1	8.2	✓
27	-61°	1381	9	54.4	-61	59.3	8.1	✓

Cards made out.

26	-61°	1379	9	54.1	-61	20.1	7.8	✓
29	-62°	1387	9	55.5	-62	44.8	8.3	✓
30	-62°	1370	9	53.4	-62	47.5	7.7	✓
31	-61°	1389	9	50.3	-61	31.7	7.5	✓
32	-61°	1356	9	49.5	-61	44.8	8.2	✓
33	-62°	1335	9	47.4	-62	9.5	7.5	✓
34	-62°	1324	9	45.6	-62	26.2	7.8	✓
35	-64°	1168	10	1.0	-64	2.5	7.1	✓
26	-63°	1282	10	2.2	-63	13.6	8.0	✓
37	-61°	1479	10	4.0	-61	26.5	6.8	✓
38	-61°	1476	10	3.5	-61	27.4	8.2	✓
39	-61°	1477	10	3.6	-61	37.7	7.8	✓
40	-62°	1438	10	3.7	-62	2.7	8.3	✓
41	-60°	1673	10	3.0	-60	36.2	7.6	✓
42	-60°	1701	10	5.4	-60	36.2	7.8	✓
43	-60°	1742	10	7.8	-60	55.5	7.3	✓
44	-61°	1817	10	9.3	-61	2.4	6.8	✓
45	-59°	1974	10	8.8	-59	8.0	6.4	✓
46	-59°	1976	10	9.5	-59	38.6	7.8	✓
47	-59°	2008	10	11.8	-59	16.8	7.1	✓
48	-58°	2095	10	15.3	-58	31.1	6.8	✓
49	-63°	1319	10	6.7	-63	46.1	7.1	✓
50	-63°	1321	10	7.0	-63	22.4	8.1	✓
51	-63°	1327	10	8.0	-63	12.3	8.0	✓
52	-64°	1212	10	9.3	-64	32.8	7.2	✓
53	-64°	1248	10	15.2	-64	3.8	6.0	✓
54	-62°	1231	10	16.3	-62	42.5	7.8	✓

cards made out

Saturday, Mar. 22, 1913.

B3 & 57 long exp.

No.	Int.	Class	Remarks
55	5	A ₂	
56	3	A ₃	
57	4	B ₂	
58	4	B ₂	

Time 13.00

59	5	B ₂	Line narrow
60	7	B ₂	" "

55	-59°	1510	9	46.9	-59	56.6	7.4	✓
56	-59°	1501	9	45.9	-59	40.7	8.2	✓
57	-57°	2703	10	5.0	-57	35.2	7.9	✓
58	-57°	2724	10	4.8	-57	25.6	7.8	✓

Identified by T.C. in Aug. 11, 1913.

Checked by Amc. Sept. 8, 1913

Cards made out by B.R.B.

Cards checked by Amc.

✓	59	-57° 2457	9	52.6	-57	4	7.8	106 m B & 0.05
✓	60	-56 2646	9	57.0	-56	48	6.8	102 ..

Saturday, Mar 22, 1913.

Time: 12.02

B40221 shut dirp. 9 47 -63

No. Lat. Class Remark

1 3 45 E.

2 2 45

3 9 40

4 10 43

5 8 42

6 5 43

7 3 44

8 5 45

9 3 40

10 1 45

11 1 45

12 2 45

13 1 40

14 2 46

15 8 40

16 2 42

17 7 43

18 5 45

19 9 48

20 2 40

21 7 40

22 1 40

23 5 45

24 10 42

25 4 42

26 3 48

27 1 45

1	-64°	1022	9	15.8	-64	54.2	8.6	✓
2	-64°	1028	9	20.5	-64	59.4	8.8	✓
3	-64°	1034	9	22.6	-64	43.8	7.2	✓
4	-64°	1037	9	24.0	-64	23.3	6.6	✓
5	-64°	1032	9	22.2	-64	10.2	7.8	✓
6	-63°	1124	9	23.1	-63	11.7	8.2	✓
7	-63°	1126	9	24.0	-63	5.1	8.6	✓
8	-62°	1242	9	26.0	-62	53.6	8.1	✓
9	-62°	1239	9	25.8	-62	40.0	8.6	✓
10	-62°	1249	9	27.3	-62	57.4	9.4	✓
11	-63°	1129	9	25.6	-63	22.5	9.4	✓
12	-63°	1128	9	25.3	-63	47.6	9.1	✓
13	-64°	1038	9	26.4	-64	5.2	9.1	✓
14	-63°	1133	9	27.5	-63	31.9	9.2	✓
15	-63°	1135	9	28.8	-63	41.1	8.1	✓
16	-63°	1136	9	29.1	-63	25.8	8.9	✓
17	-62°	1257	9	30.6	-62	55.1	8.2	✓
18	-62°	1256	9	30.6	-62	40.4	8.9	✓
19	-63°	1137	9	31.6	-63	28.3	7.3	✓
20	-63°	1138	9	32.5	-63	52.8	9.1	✓
21	-63°	1139	9	32.9	-63	59.7	7.2	✓
22	-63°	1141	9	33.2	-63	57.9	9.2	✓
23	-64°	1045	9	32.1	-64	26.4	8.1	✓
24	-64°	1049	9	33.2	-64	23.5	7.0	✓
25	-64°	1050	9	34.5	-64	35.0	8.4	✓
26	-64°	1051	9	36.0	-64	25.6	8.9	✓
27	-64°	1052	9	36.8	-64	25.7	9.4	✓

Saturday, May 22, 1913.

B 221 shot comp.

No.	Lat.	Class	Remark
28	6	A ₀	
29	7	B ₀	
30	10	B ₀	
31	3	F ₂	
32	5	A ₀	
33	1	H ₀	
34	5	A ₀	
35	3	A ₃	
36	4	D ₈	
37	8	E ₉	
38	9	B ₈	
39	4	B ₉	
40	7	B ₉	
41	7	B ₈	
42	2	F ₈	
43	3	F ₈	
44	5	A ₀	
45	7	F ₀	
46	2	A ₀	
47	10	H ₁	
48	2	A ₀	
49	1	A ₀	
50	4	A ₀	
51	7	A ₃	
52	3	F ₂	
53	2	A ₀	
54	1	F ₂	

28	-64°	1053	9	37.6	-64	31.8	8.2	1✓
29	-63°	1146	9	35.8	-63	55.6	8.3	1✓
30	-63°	1144	9	35.3	-63	50.4	7.0	1✓
31	-63°	1145	9	35.4	-63	32.7	8.8	1✓
32	-63°	1143	9	35.1	-63	13.5	8.1	1✓
33	-63°	1140	9	33.8	-63	20.3	7.2	1✓
34	-62°	1267	9	35.0	-62	46.1	8.7	1✓
35	-62°	1270	9	35.6	-62	34.2	9.1	1✓
36	-62°	1272	9	35.8	-62	38.1	8.6	1✓
37	-62°	1277	9	36.2	-62	41.4	7.6	1✓
38	-62°	1279	9	36.5	-62	22.5	6.7	1✓
39	-62°	1280	9	37.1	-62	26.1	8.2	1✓
40	-61°	1308	9	35.2	-61	59.5	7.3	1✓
41	-61°	1313	9	35.9	-61	59.3	7.4	1✓
42	-61°	1319	9	36.7	-61	48.2	8.9	1✓
43	-61°	1320	9	37.1	-61	56.8	8.7	1✓
44	-62°	1285	9	38.7	-62	7.2	8.0	1✓
45	-62°	1289	9	39.2	-62	10.6	8.0	1✓
46	-61°	1331	9	40.8	-61	51.9	9.2	1✓
47	-61°	1333	9	41.8	-61	56.0	5.8	1✓
48	-62°	1301	9	41.3	-62	29.6	8.9	1✓
49	-62°	1307	9	42.3	-62	29.0	9.3	1✓
50	-62°	1310	9	42.7	-62	29.6	8.7	1✓
51	-62°	1315	9	43.3	-62	7.9	7.9	1✓
52	-61°	1336	9	42.8	-61	23.1	7.1	1✓
53	-61°	1342	9	44.6	-61	39.1	7.2	1✓
54	-61°	1346	9	45.1	-61	35.0	7.5	1✓

Saturday, May 22, 1913.

B 40221 shot amp.

No.	Int.	Class	Remark
55	6	Co	
56	4	Bq	
57	4	Co	
58	3	Co	
59	3	Co	
60	4	Co	
61	2	Co	The preceding of two.
62	2	Co	
63	4	Co	
64	3	Co	
65	4	Co	
66	2	Co	
67	4	Co	
68	6	Co	
69	1	Co	
70	5	Co	
71	3	Co	
72	3	Co	
73	5	Bq	
74	2	Co	
75	5	Bq	
76	3	Co	
77	7	Bq	
78	2	Co	
79	4	Co	
80	2	Co	
81	2	Co	

55	-61°	1347	9	46.3	-61	40.1	8.1	✓
56	-61°	1352	9	48.2	-61	27.3	8.4	✓
57	-61°	1353	9	48.6	-61	50.1	8.4	✓
58	-62°	1341	9	48.7	-62	4.1	8.6	✓
59	-62°	1343	9	48.9	-62	10.7	8.6	✓
60	-62°	1337	9	47.7	-62	35.4	8.2	✓
61	-62°	1338	9	48.1	-62	25.8	9.0	✓
62	-62°	1320	9	45.1	-62	16.3	8.9	✓
63	-62°	1327	9	45.8	-62	34.1	8.2	✓
64	-62°	1329	9	46.1	-62	48.3	9.0	✓
65	-63°	1184	9	44.1	-63	1.4	8.8	✓
66	-63°	1188	9	44.7	-63	5.6	9.0	✓
67	-63°	1189	9	45.2	-63	24.0	8.9	✓
68	-63°	1179	9	43.6	-63	39.7	8.4	✓
69	-63°	1196	9	46.0	-63	51.1	9.3	✓
70	-63°	1201	9	47.7	-63	39.9	8.8	✓
71	-63°	1213	9	50.2	-63	36.0	9.0	✓
72	-62°	1347	9	49.6	-62	55.4	9.1	✓
73	-62°	1356	9	51.0	-62	51.6	8.6	✓
74	-62°	1360	9	51.5	-62	57.0	9.0	✓
75	-62°	1358	9	51.4	-62	40.3	8.5	✓
76	-62°	1366	9	52.5	-62	31.0	8.8	✓
77	-62°	1370	9	53.4	-62	47.5	7.7	✓
78	-62°	1365	9	52.5	-62	59.1	9.0	✓
79	-63°	1231	9	53.8	-63	3.9	8.8	✓
80	-63°	1238	9	54.4	-63	20.9	9.2	✓
81	-62°	1381	9	54.5	-62	45.9	9.1	✓

Saturday, Nov. 23, 1913.
B 40221 about circ.

Mr	Int.	Class	Remark
82	2	S ₁₀	
83	5	A ₀	
84	5	S ₁₀	
85	2	A ₀	
86	2	A ₀	
87	4	A ₀	
88	4	F ₀	
89	4	A ₀	
90	3	B ₉	Nearly all superheated on a light star.
91	2	F ₀	
92	1	S ₁₅	
93	4	S ₁₅	
94	1	A	E.
95	2	A	E.
96	4	B ₈	
97	6	S ₁₀	
98	6	A ₀	
99	2	S ₁₀	
100	3	A ₀	
101	3	S ₁₀	
102	4	B ₉	
103	2	B ₉	
104	3	F ₀	
105	8	S ₁₀	
106	3	A ₀	
107	3	B ₉	
108	6	A ₀	

82	-62°	1375	9	54.2	-62	9.9	8.9	Λ
83	-61°	1387	9	55.8	-61	46.0	8.6	Λ
84	-61°	1400	9	56.8	-61	9.7	8.6	Λ
85	-61°	1401	9	56.9	-61	55.3	9.1	Λ
86	-61°	1416	9	58.3	-61	10.1	9.1	Λ
87	-61°	1423	9	58.8	-61	47.1	8.8	Λ
88	-61°	1447	10	0.2	-61	37.8	8.6	Λ
89	-61°	1435	9	59.2	-61	25.0	8.6	Λ
90	-61°	1440	9	59.6	-61	19.4	8.6	Λ
91	-60°	1622	10	0.1	-60	55.1	9.0	Λ
92	-60°	1620	10	0.0	-60	42.2	9.2	Λ
93	-61°	1458	10	1.2	-61	4.5	8.8	Λ
94	-61°	1455	9 10	0.8	-61	4.3	9.1	Λ
95	-60°	1632	10	1.0	-60	57.1	9.2	Λ
96	-61°	1473	10	3.0	-61	44.0	8.8	Λ
97	-62°	1429	9 10	1.5	-62	14.7	8.6	Λ
98	-62°	1402	9	57.8	-62	14.9	8.7	Λ
99	-62°	1409	9	58.4	-62	25.6	9.4	Λ
100	-62°	1416	9	59.7	-62	34.8	8.8	Λ
101	-62°	1418	9	59.8	-62	45.1	9.0	Λ
102	-62°	1426	9 10	0.8	-62	39.3	8.8	Λ
103	-62°	1415	9	59.6	-62	55.0	8.9	Λ
104	-64°	1128	9	52.9	-64	3.0	9.0	Λ
105	-63°	1233	9	53.9	-63	53.8	8.0	Λ
106	-64°	1133	9	54.5	-64	9.9	9.0	Λ
107	-64°	1141	9	55.4	-64	3.0	8.8	Λ
108	-63°	1242	9	54.8	-63	44.1	8.3	Λ

superheated on -61 16.6
-610 1441.9 59.7 8.8
mag 6.8

-62° 1419 9 59.7 12 42.3
Λ -62° 1419 9 59.7 12 42.3
mag 6.8

Saturday, May 23, 1913.

B40221 shot disp.

No. Lat. Class Remark

109	3	A ₀	
110	5	B ₇	
111	1	A ₁	
112	4	A ₀	
113	2	A ₀	
114	3	A ₀	
115	3	A ₂	
116	4	A ₂	
117	4	A ₁	
118	7	B ₈	
119	3	A ₀	
120	10+	F	Turned out
121	4	A ₀	Exp. - 66" 1087 um - free side, probably same type.
122	6	B ₈	
123	1	A ₂	
124	2	A ₀	
125	4	A ₂	
126	1	A	Betty ascertained on 125.
127	1	A ₁	
128	3	A ₁	
129	1	A ₁	
130	6	A ₀	
131	3	A ₀	
132	6	B ₈	
133	3	A ₂	
134	3	A ₂	
135	2	A ₀	

109	-63°	1251	q	55.5	-63	45.9	9.0	Λ	✓
110	-63°	1257	q	56.2	-63	57.6	8.2	Λ	✓
111	-63°	1148	q	38.1	-63	2.5	9.4	Λ	✓
112	-63°	1156	q	40.3	-63	18.7	8.9	Λ	✓
113	-63°	1159	q	41.2	-63	40.9	9.1	Λ	✓
114	-63°	1163	q	41.7	-63	46.1	9.0	Λ	✓
115	-63°	1167	q	41.9	-63	34.9	9.0	Λ	✓
116	-64°	1078	q	41.8	-64	14.1	9.0	Λ	✓
117	-64°	1076	q	41.8	-64	4.8	9.0	Λ	✓
118	-63°	1171	q	42.3	-63	55.4	8.0	Λ	✓
119	-64°	1081	q	43.4	-64	10.9	9.0	Λ	✓
120	-64°	1084	q	44.0	-64	29.5	4.6	Λ	✓
121	-64°	1088	q	44.7	-64	32.3	8.9	64" 1087 um ascertained 9.2	✓
122	-64°	1107	q	47.7	-64	57.6	8.1	Λ	✓
123	-64°	1105	q	46.9	-64	35.3	9.2	Λ	✓
124	-64°	1119	q	50.8	-64	5.0	9.2	Λ	✓
125	-64°	1118	q	50.5	-64	24.8	9.0	Λ	✓
126	-64°	1117	q	50.4	-64	30.6	9.2	Λ	✓
127	-64°	1116	q	49.8	-64	31.0	9.4	Λ	✓
128	-64°	1121	q	51.7	-64	28.8	9.0	Λ	✓
129	-64°	1120	q	51.0	-64	42.6	9.2	Λ	✓
130	-64°	1140	q	55.3	-64	49.8	8.8	Λ	✓
131	-65°	1201	q	55.0	-65	19.6	8.7	Λ	✓
132	-65°	1210	q	55.8	-65	22.9	7.9	Λ	✓
133	-65°	1214	q	56.6	-65	25.5	8.9	Λ	✓
134	-65°	1213	q	56.3	-65	44.9	8.8	Λ	✓
135	-65°	1215	q	56.8	-65	40.6	8.6	Λ	✓

Monday, May 24, 1913

R 40221 shot disp.

No.	Lat.	Class	Remark
136	3	A ₀	
137	8	B ₀	
138	1	A _{1.5}	
139	4	F ₂	
140	10	A _{1.6}	
141	2	F ₀	
142	8	B ₀	
143	6	A ₂	
144	2	A ₂	
145	5	B ₀	
146	3	A _{1.2}	
147	3	A ₂	
148	5	A ₂	
149	5	A ₃	
150	5	F ₀	
151	6	A ₂	
152	3	A ₂	
153	4	F ₀	
154	7	A ₀	
155	2	F ₂	
156	4	A ₂	
157	1	A _{1.2}	
158	2	F ₅	
159	2	F ₀	
160	5	B _{0.9}	
161	5	A ₃	
162	6	B ₀	

136	-65°	1223	9	58.6	-65	13.3	9.0	1✓
137	-65°	1224	9	59.0	-65	13.8	7.6	1✓
138	-65°	1228	9	59.8	-65	5.2	9.2	1✓
139	-65°	1237	9 10	2.0	-65	32.7	8.6	1✓
140	-65°	1248	10	5.2	-65	12.3	7.2	1✓
141	-65°	1251	10	5.6	-65	11.1	9.0	1✓
142	-64°	1190	10	5.2	-64	53.8	7.4	1✓
143	-64°	1181	10	2.4	-64	37.6	8.2	1✓
144	-64°	1194	10	6.0	-64	34.0	9.2	1✓
145	-64°	1198	10	6.3	-64	32.0	8.4	1✓
146	-64°	1204	10	7.8	-64	23.0	9.0	1✓
147	-64°	1209	10	8.9	-64	14.2	8.8	1✓
148	-63°	1325	10	7.3	-63	47.2	8.3	1✓
149	-63°	1329	10	8.0	-63	47.6	8.5	1✓
150	-63°	1335	10	9.0	-63	46.7	8.4	1✓
151	-63°	1344	10	10.6	-63	55.2	8.0	1✓
152	-63°	1334	10	8.9	-63	35.9	8.9	1✓
153	-63°	1341	10	9.9	-63	16.8	8.8	1✓
154	-63°	1348	10	12.0	-63	8.6	8.0	1✓
155	-64°	1161	10	0.1	-64	9.8	9.0	1✓
156	-64°	1166	10	0.4	-64	8.3	9.0	1✓
157	-64°	1170	10	1.3	-64	19.9	9.2	1✓
158	-63°	1279	10	0.5	-63	49.6	9.1	1✓
159	-64°	1177	10	1.7	-64	4.1	9.0	1✓
160	-63°	1287	10	3.5	-63	58.6	8.3	1✓
161	-63°	1283	10	2.5	-63	19.0	8.7	1✓
162	-63°	1293	10	4.0	-63	37.1	8.5	1✓

Monday, May 24, 1913.
1340221 shot ship.

No.	Lat.	Class	Remarks
163	1	A	
164	3	Bd	
165	1	A	
166	3	A2	
167	3	A0	
168	3	A0	
169	6	A0	
170	2	A0	
171	4	A2	
172	2	A0	
173	3	A0	
174	3	A0	
175	3	A0	
176	4	A0	
177	2	A0	
178	2	A0	
179	2	A0	
180	3	A2	
181	2	A0	
182	2	A0	
183	1	A0	
184	1	A	
185	10	A2	
186	8	A0	
187	4	A	
188	2	A0	
189	2	A0	

A0. K. outlying.

163	-63°	1304	10	4.8	-63	46.1	9.2	✓
164	-63°	1311	10	5.9	-63	54.2	8.7	✓
165	-63°	1313	10	6.2	-63	58.4	9.1	✓
166	-63°	1316	10	6.3	-63	9.4	8.9	✓
167	-62°	1459	10	6.7	-62	43.6	8.9	✓
168	-62°	1447	10	4.8	-62	10.6	8.8	✓
169	-61°	1519	10	9.4	-61	53.1	8.4	✓
170	-61°	1516	10	9.2	-61	40.2	9.0	✓
171	-61°	1520	10	9.4	-61	27.7	8.6	✓
172	-61°	1501	10	7.4	-61	43.1	9.5	✓
173	-61°	1536	10	10.4	-61	50.1	8.9	✓
174	-61°	1541	10	10.9	-61	58.2	8.9	✓
175	-61°	1540	10	10.8	-61	39.2	9.0	✓
176	-62°	1474	10	8.6	-62	55.0	9.0	✓
177	-62°	1437	10	3.7	-62	33.2	9.1	✓
178	-63°	1281	10	1.9	-63	2.2	9.0	✓
179	-62°	1433	10	2.7	-62	48.5	9.2	✓
180	-62°	1434	10	2.8	-62	51.0	9.0	✓
181	-63°	1303	10	4.7	-63	1.9	9.3	✓
182	-62°	1446	10	4.7	-62	53.9	9.0	✓
183	-63°	1308	10	5.3	-63	9.8	9.4	✓
184	-63°	1309	10	5.5	-63	36.9	9.0	✓
185	-61°	1271	9	22.3	-61	24.6	6.7	✓
186	-61°	1265	9	20.9	-61	6.6	7.5	✓
187	-60°	1422	9	21.8	-60	48.4	8.4	✓
188	-60°	1265	9	20.9	-60	5.6	7.5	✓
188	-60°	1427	9	22.7	-60	57.3	8.5	✓
189	-60°	1431	9	23.4	-60	50.4	8.8	✓

Monday, Mar. 24, 1913.

Bro221 shot up.

Time:

No.	Lat.	Class	Remarks
190	3	F5	
191	1	A	
192	1	F5	
193	3	F5	
194	3	F5	
195	7	A0	
196	6	F5	
197	4	A0	
198	6	F5	
199	5	A2	
200	8	F5	
201	8	A0	
202	1	The Bright part of sp. between 2217 and 4. Alt. part barely seen.	
203	3	F5	
204	2	F5	
205	1	F5	
206	2	F5	
207	6	F5	
208	10+	A	Turned out.
209	4	A0	
210	2	A2	
211	3	F5	
212	2	A0	
213	1	F5	
214	2	A2	
215	1	F5	
216	1	F5	

190	-61°	1280	9	26.6	-61	1.6	8.8	Λ	✓
191	-61°	1282	9	26.8	-61	8.0	8.9	Λ	✓
192	-61°	1281	9	26.7	-61	19.0	9.3	Λ	✓
193	-61°	1284	9	27.2	-61	14.7	9.0	Λ	✓
194	-61°	1287	9	27.8	-61	24.5	8.9	Λ	✓
195	-60°	1455	9	28.7	-60	41.0	7.6	Λ	✓
196	-60°	1464	9	30.3	-60	4.4	8.2	Λ	✓
197	-60°	1466	9	31.8	-60	12.1	8.5	Λ	✓
198	-60°	1470	9	32.9	-60	34.3	8.0	Λ	✓
199	-60°	1472	9	33.6	-60	49.4	8.3	Λ	✓
200	-61°	1277	9	25.6	-61	43.5	7.7	Λ	✓
201	-61°	1278	9	26.4	-61	48.8	7.2	Λ	✓
202	-62°	1253	9	29.1	-62	14.1	var.	Λ	Corinae
203	-61°	1296	9	31.0	-61	53.9	7.2	Λ	✓
204	-61°	1303	9	32.2	-61	54.0	9.4	Λ	✓
205	-62°	1262	9	33.1	-62	6.7	9.1	Λ	✓
206	-61°	1302	9	32.2	-61	11.4	8.9	Λ	✓
207	-61°	1307	9	34.0	-61	4.7	8.2	Λ	✓
208	-60°	1477	9	35.9	-60	45.7	4.7	Λ	✓
209	-60°	1480	9	37.3	-60	41.2	8.5	Λ	✓
210	-60°	1486	9	38.6	-60	27.7	8.7	Λ	✓
211	-60°	1490	9	39.1	-60	35.2	8.6	Λ	✓
212	-60°	1492	9	39.2	-60	39.0	8.9	Λ	✓
213	-60°	1488	9	38.8	-60	57.7	9.4	Λ	✓
214	-61°	1321	9	37.2	-61	15.9	9.1	Λ	✓
215	-61°	1325	9	38.6	-61	15.9	9.2	Λ	✓
216	-60°	1497 1500	9	41.7 44.0	-60	27.7	8.8 8.4	Λ	✓

Monday, May 24, 1913

B 4022, short exp.

No.	Lat.	Class	Remarks
217	2	Ma	
218	4	Co	
219	2	A	
220	5	Co	
221	2	Co	
222	5	Co	
223	2	Co	
224	1	Co	
225	3	Co	
226	6	Co	
227	5	Co	
228	3	Co	
229	6	Co	
230	2	Co	
231	4	Co	
232	6	Co	
233	5	Co	
234	5	Co	
235	3	Co	
236	4	Co	
237	2	Co	
238	3	Co	
239	1	Co	
240	1	Co	
241	3	Co	
242	6	Co	
243	3	Ma	

217	-60°	1498	9	43.6	-60	32.1	9.1	1✓
218	-60°	1500	9	44.0	-60	27.4	8.4	1✓
219	-60°	1501	9	44.1	-60	32.6	9.2	1✓
220	-60°	1502	9	44.4	-60	26.0	8.1	1✓
221	-60°	1507	9	45.2	-60	39.4	9.4	1✓
222	-60°	1510	9	46.8	-60	23.0	8.4	1✓
223	-60°	1511	9	47.1	-60	30.4	9.2	1✓
224	-60°	1514	9	47.5	-60	31.2	9.5	1✓
225	-60°	1519	9	48.7	-60	24.1	8.6	1✓
226	-60°	1516	9	47.9	-60	0.5	8.2	1✓
227	-59°	1516	9	48.1	-59	50.8	8.4	1✓
228	-59°	1515	9	47.6	-59	44.9	8.3	1✓
229	-60°	1508	9	46.4	-60	0.7	8.0	1✓
230	-60°	1503	9	44.5	-60	0.1	9.1	1✓
231	-59°	1487	9	44.6	-59	36.9	8.6	1✓
232	-60°	1491	9	45.0	-60	3.0	8.2	1✓
233	-60°	1529	9	51.1	-60	3.1	8.4	1✓
234	-60°	1548	9	54.1	-60	9.1	8.6	1✓
235	-60°	1540	9	53.3	-60	42.9	8.9	1✓
236	-61°	1380	9	54.1	-61	5.0	8.8	1✓
237	-61°	1369	9	53.3	-61	7.1	9.2	1✓
238	-61°	1390	9	56.0	-61	0.2	9.2	1✓
239	-60°	1567	9	56.0	-60	42.5	9.2	1✓
240	-60°	1571	9	56.2	-60	46.3	9.3	1✓
241	-60°	1584	9	57.4	-60	22.9	8.8	1✓
242	-60°	1602	9	58.8	-60	42.1	8.4	1✓
243	-60°	1623	10	0.1	-60	29.1	9.0	1✓

Monday, Nov. 24, 1913.

B46221 short circ.

No.	Lat.	Class	Remarks
244	4	A ₀	
245	3	F ₅	
246	2	A ₀	Begin of line of unperfected on 245.
247	7	B ₈	
248	6	B ₉	
249	5	A ₀	
250	7	F ₀	
251	3	F ₀	
252	3	F ₂	
253	10	A ₀	
254	7	F ₅	
255	3	A ₂	
256	1	F ₂	
257	1	F ₅	
258	2	A ₀	
259	4	A ₀	
260	2	A ₂	
261	3	F ₀	
262	8	B ₉	
263	3	F ₀	
264	3	F ₅	
265	4	B ₉	
266	5	F ₀	
267	4	A ₀	
268	5	B ₉	
269	2	F ₅	
270	5	A ₂	

244	-60°	1610	q	59.1	-60	8.1	8.9	1✓
245	-64°	1043	q	29.8	-64	49.4	8.9	1✓
246	-64°	1042	q	29.6	-64	56.4	8.6	1✓
247	-65°	1115	q	31.8	-65	33.8	7.5	1✓
248	-65°	1118	q	34.2	-65	50.9	7.8	1✓
249	-66°	1031	q	35.0	-66	6.9	8.2	1✓
250	-66°	1033	q	36.1	-66	17.7	7.8	1✓
251	-65°	1125	q	38.4	-65	57.9	8.6	1✓
252	-66°	1036	q	38.7	-66	10.0	8.6	1✓
253	-66°	1042	q	39.5	-66	20.5	7.2	1✓
254	-65°	1124	q	38.3	-65	30.7	8.2	1✓
255	-64°	1061	q	39.7	-64	56.2	9.1	1✓
256	-65°	1126	q	38.4	-65	17.7	9.5	1✓
257	-65°	1123	q	37.8	-65	29.9	9.2	1✓
258	-65°	1134	q	40.3	-65	24.9	9.1	1✓
259	-65°	1145	q	42.6	-65	32.2	8.7	1✓
260	-65°	1146	q	42.8	-65	39.0	9.1	1✓
261	-65°	1149	q	43.6	-65	58.3	8.8	1✓
262	-66°	1061	q	42.4	-66	13.9	8.0	1✓
263	-66°	1052	q	41.2	-66	26.9	8.6	1✓
264	-66°	1085	q	45.0	-66	16.9	8.9	1✓
265	-66°	1098	q	47.3	-66	9.4	8.5	1✓
266	-66°	1101	q	47.6	-66	33.2	8.5	1✓
267	-66°	1111	q	49.3	-66	32.2	8.5	1✓
268	-66°	1110	q	48.9	-66	12.4	8.4	1✓
269	-66°	1118	q	46.5	-66	53.8	9.2	1✓
270	-65°	116	q	47.3	-65	31.6	8.6	1✓

Tuesday, May 24, 1913.

B40221 shot disp.

No.	Int.	Class	Remarks
271	4	As E.	
272	4	As	
273	1	As E.	
274	6	As	
275	1	As	
276	2	As	
10.34 277	2	As	
12.24 278	2	As	
279	2	As	
280	3	Bg	
281	1	As	
282	3	As	
283	2	As	
284	3	As	
285	2	As	
286	4	As	
287	2	As	
288	4	As	
289	3	As	
290	3	As	
291	3	As	
292	3	Bg	
June 12.35 293	9	As	
294	8	Bg	

Cont. 130, 128

271	-67°	1158	9	49.5	-67	0.6	8.3	✓
272	-66°	1120	9	51.0	-66	43.8	8.5	✓
273	-66°	1122	9	51.7	-66	35.2	9.0	✓
274	-66°	1139	9	55.2	-66	24.9	8.0	✓
275	-65°	1199	9	54.9	-65	58.0	9.2	✓
276	-65°	1234	10	1.0	-65	57.8	9.0	✓
277	-66°	1171	10	2.0	-66	6.7	9.0	✓
278	-62°	1498	10	12.5	-62	15.9	8.7	✓
279	-62°	1509	10	13.8	-62	46.0	9.0	✓
280	-62°	1514	10	14.0	-62	42.4	8.8	✓
281	-62°	1517	10	14.6	-62	44.1	9.1	✓
282	-62°	1535	10	16.8	-62	49.3	8.7	✓
283	-62°	1544	10	16.8	-62	41.6	9.0	✓
284	-62°	1538	10	17.0	-62	24.1	8.9	✓
285	-62°	1552	10	18.7	-62	23.8	9.2	✓
286	-61°	1584	10	15.4	-61	34.0	8.6	✓
287	-61°	1604	10	17.7	-61	24.2	8.8	✓
288	-61°	1606	10	17.9	-61	13.1	8.6	✓
289	-61°	1622	10	19.1	-61	5.1	8.7	✓
290	-60°	1881	10	19.4	-60	56.1	8.6	✓
291	-62°	1573	10	21.9	-62	13.4	8.9	✓
292	-63°	1403	10	21.4	-63	28.8	8.3	✓
293	-65°	1354	10	23.5	-65	4.2	6.6	✓

Identified by J. C. M. Dec. 10, 1913.

Checked Jan. 10th 1913 J. C. M.

Cards made out by B. R. B.

Cards checked by J. C. M.

294 -64 1112 10 9.3 -64 33 7.2 54 m B44087

Tuesday, Mar 25, 1913

June 10.06

B38797 shot dirp. 10 8 -530

No. Int. Class Remarks

1	3	B3	
2	2	B3	
3	1	B1	
4	5	B3	
5	4	B3	
6	7	B2	
7	1	B2	
8	8	B3	
9	6	B3	
10	2	B3	
11	1	B3	
12	3	A2	Partly superimposed on 13.
13	2	B3	
14	2	A2	
15	8	A0	
16	4	B3	Partly superimposed on 15.
17	2	B3	
18	4	A0	
19	1	B3	
20	3	A2	
21	4	A0	
22	1	B3	
23	2	B3	
24	2	A2	
25	4	B3	
26	5	B3	
27	4	A2	

1	-56°	3043	10	11.0	-56	30.2	8.8	1	✓
2	-56°	3028	10	10.3	-56	20.2	9.2	1	✓
3	-56°	3033	10	10.5	-56	3.0	9.4	1	✓
4	-55°	3112	10	10.4	-55	51.8	8.3	1	✓
5	-55°	3107	10	10.2	-55	37.6	8.5	1	✓
6	-55°	3066	10	8.9	-55	58.2	7.9	1	✓
7	-55°	3065	10	8.8	-55	39.4	9.0	1	✓
8	-55°	3053	10	8.3	-55	31.8	8.2	1	✓
9	-55°	3021	10	7.3	-55	22.6	8.0	1	✓
10	-55°	3004	10	6.7	-55	29.4	8.8	1	✓
11	-55°	3030	10	7.6	-55	53.5	9.2	1	✓
12	-56°	2939	10	6.2	-56	19.2	8.8	1	✓
13	-56°	2942	10	6.3	-56	12.2	9.2	1	✓
14	-56°	2930	10	5.0	-56	8.2	9.2	1	✓
15	-56°	2919	10	5.4	-56	8.1	8.3	1	✓
16	-56°	2918	10	5.4	-56	3.4	8.3	1	✓
17	-56°	2917	10	5.2	-56	2.5	9.2	1	✓
18	-55°	2969	10	4.8	-55	36.7	8.6	1	✓
19	-55°	2973	10	5.1	-55	26.1	9.2	1	✓
20	-55°	2963	10	4.7	-55	18.2	8.8	1	✓
21	-55°	2952	10	4.2	-55	9.2	8.8	1	✓
22	-55°	2948	10	4.0	-55	25.8	9.2	1	✓
23	-55°	2905	10	2.5	-55	27.8	9.0	1	✓
24	-55°	2909	10	2.7	-55	19.9	9.0	1	✓
25	-55°	2953	10	4.3	-55	48.4	8.3	1	✓
26	-55°	2949	10	4.0	-55	49.4	8.1	1	✓
27	-55°	2928	10	3.5	-55	58.4	9.0	1	✓

Tuesday, Mar. 25, 1913.

B38997 short ans.

Mr. Lat. Class Remark

28	3	As
29	8	As
30	3	As
31	54	As
32	5	As
33	4	As
34	1	As
35	2	As [The return of two.]
36	2	As
37	2	As
38	4	As
39	6	As
40	2	As E.
41	3	As
42	6	As
43	2	As
44	3	As
45	9	As
46	5	As
47	2	As
48	1	As
49	8	As
50	5	As
51	5	As
52	2	As
53	2	As
54	5	As

28	-56°	2889	10	1.6	-56	4.3	8.8	1	✓
29	-56°	2825	10	0.7	-56	17.4	7.6	1	✓
30	-56°	2860	10	2.5	-56	23.4	9.2	1	✓
31	-56°	2869	10	2.9	-56	27.2	8.8	1	✓
32	-56°	2892	10	4.0	-56	40.8	8.2	1	✓
33	-56°	2912	10	5.1	-56	54.0	8.8	1	✓
34	-56°	2932	10	6.0	-56	56.7	9.2	1	✓
35	-56°	2947	10	6.4	-56	49.8	9.2	1	✓
36	-56°	2936	10	6.2	-56	39.8	8.8	1	✓
37	-56°	2857	10	2.4	-56	47.1	9.2	1	✓
38	-57°	2633	10	1.5	-57	3.1	8.8	1	✓
39	-57°	2643	10	1.8	-57	17.4	8.0	1	✓
40	-57°	2657	10	2.2	-57	22.4	9.0	1	✓
41	-57°	2601	9	59.7	-57	10.2	9.2	1	✓
42	-56°	2798	9	59.3	-56	57.9	8.8	1	✓
43	-56°	2809	9	59.9	-56	114.0	9.2	1	✓
44	-56°	2789	9	58.9	-56	15.6	9.0	1	✓
45	-57°	2770	9	57.7	-56	44.8	7.8	1	✓
46	-57°	2558	9	58.0	-57	6.1	8.3	1	✓
47	-56°	2764	9	57.2	-56	34.3	9.0	1	✓
48	-56°	2756	9	56.9	-56	20.6	9.2	1	✓
49	-56°	2746	9	56.3	-56	20.7	7.8	1	✓
50	-56°	2758	9	56.9	-56	4.0	8.6	1	✓
51	-55°	2798	9	57.1	-55	52.2	8.1	1	✓
52	-55°	2850	9	59.1	-55	56.5	8.8	1	✓
53	-55°	2860	9	59.5	-55	35.0	8.6	1	✓
54	-55°	2826	9	58.2	-55	39.2	8.0	1	✓

Tuesday, May 25, 1913.

B35797 short drip.

No.	Int.	Class	Remark
55	6	A2	
56	3	A0	
57	8	B38	
58	5	A0	
59	2	1/2	Partly superfused on 58.
60	1	1/2	
61	2	A2	
62	2	A	
63	2	A2	
64	1	1/2	
65	3	1/2	
66	2	1/2	
67	3	1/2	
68	2	A0	Partly superfused on 67.
69	5	B38	
70	4	1/2	
71	10	B33	
72	5	B35	
73	7	B35	
74	2	A	
75	2	A0	
76	3	1/2	
77	1	A	
78	2	B38	
79	3	A0	
80	7	B39	
81	3	B39	

55	-55°	2823	9	58.2	-55	36.2	8.3	1	✓
56	-55°	2832	9	58.6	-55	24.2	8.8	1	✓
57	-55°	2861	9	59.6	-55	18.1	8.0	1	✓
58	-55°	2874	9 10	0.5	-55	11.6	8.3	1	✓
59	-55°	2876	10	0.7	-55	9.6	8.6	1	✓
60	-55°	2877	10	0.7	-55	4.8	9.2	1	✓
61	-55°	2899	10	2.1	-55	1.7	9.2	1	✓
62	-54°	3158	10	3.0	-54	54.6	9.4	1	✓
63	-54°	3173	10	3.4	-54	35.2	9.4	1	✓
64	-54°	3151	10	2.7	-54	37.9	9.4	1	✓
65	-54°	3167	10	3.1	-54	20.6	9.2	1	✓
66	-54°	3177	10	3.7	-54	9.7	9.2	1	✓
67	-55°	3073	10	9.1	-55	10.0	9.0	1	✓
68	-55°	3075	10	9.2	-55	5.4	9.2	1	✓
69	-55°	3048	10	8.2	-55	9.9	8.4	1	✓
70	-54°	3339	10	10.0	-54	40.3	8.0	1	✓
71	-54°	3356	10	10.6	-54	21.2	6.5	1	✓
72	-54°	3332	10	9.7	-54	31.2	8.0	1	✓
73	-54°	3325	10	9.5	-54	22.4	7.7	1	✓
74	-54°	3322	10	9.4	-54	17.7	8.8	1	✓
75	-54°	3292	10	8.5	-54	25.0	9.0	1	✓
76	-53°	3444	10	8.2	-53	57.4	8.2	1	✓
77	-54°	3272	10	7.6	-54	40.8	9.4	1	✓
78	-54°	3257	10	7.3	-54	39.4	9.2	1	✓
79	-54°	3269	10	7.5	-54	30.2	8.8	1	✓
80	-54°	3261	10	7.4	-54	22.0	7.8	1	✓
81	-54°	3246	10	7.0	-54	20.3	8.6	1	✓

54° 3167 10 3.1 -54 20.9
 54° 3167 10 3.1 -54 20.9
 54° 3167 10 3.1 -54 20.9

54° 3246 10 7.0 -54 20.3
 54° 3246 10 7.0 -54 20.3
 54° 3246 10 7.0 -54 20.3

Tuesday, May 25, 1910

B38797 short airp.

No. Int. Class Remarks

82	1	J ₁₅	
83	1	A	
84	1	J ₁₅	
85	1	A	
86	2	A ₃	
87	3	A ₅	
88	3	A ₀	
89	2	A ₂	
90	1	A	
91	4	A ₀	
92	7	A ₀	
93	2	J ₁₅	
94	1	A	
95	4	B ₉	
96	7	B ₈	
97	4	A ₀	
98	9	J ₁₅	
99	2	A ₀	
100	2	J ₁₅	
101	7	B ₁₅	
102	10	A ₂	
103	4	B ₉	
104	3	B ₁₅	Nearly all superposed on 103.
105	4	B ₃	
106	1	A	
107	6	B ₁₀	
108	1	J ₁₂	

82	-54°	3218	10	5.4	-54	10.2	9.2	^	✓
83	-54°	3235	10	6.1	-54	51.2	9.4	^	✓
84	-55°	2978	10	5.6	-55	9.3	9.2	^	✓
85	-53°	3420	10	6.5	-53	47.9	9.2	^	✓
86	-53°	3437	10	7.9	-53	33.2	8.8	^	✓
87	-53°	3552	10	11.8	-53	27.5	8.8	^	✓
88	-53°	3580	10	12.8	-53	10.5	8.8	^	✓
89	-53°	3539	10	11.4	-53	58.5	9.2	^	✓
90	-53°	3492	10	9.8	-53	3.3	9.2	^	✓
91	-52°	3404	10	10.4	-52	36.7	8.1	^	✓
92	-52°	3372	10	9.0	-52	37.3	7.9	^	✓
93	-52°	3355	10	8.3	-53	49.8	8.8	^	✓
94	-53°	3409	10	6.0	-53	15.4	9.0	^	✓
95	-52°	3296	10	5.3	-52	45.0	8.6	^	✓
96	-52°	3290	10	5.0	-52	15.8	8.2	^	✓
97	-51°	4541	10	6.3	-51	59.3	9.0	^	✓
98	-51°	4560	10	7.6	-51	32.8	6.7	^	✓
99	-51°	4573	10	8.4	-51	45.5	9.8	^	✓
100	-51°	4581	10	8.8	-51	27.3	9.5	^	✓
101	-51°	4592	10	9.7	-51	11.4	7.7	^	✓
102	-51°	4578	10	8.7	-51	8.2	6.2	^	✓
103	-52°	3428	10	11.0	-52	2.0	8.5	^	✓
104	-52°	3420	10	11.0	-52	1.3	8.4	^	✓
105	-51°	4610	10	11.0	-51	34.8	8.3	^	✓
106	-52°	3500	10	14.9	-52	22.2	8.8	^	✓
107	-51°	4673	10	15.4	-51	58.4	7.7	^	✓
108	-51°	4692	10	16.3	-51	36.4	9.0	^	✓

Tuesday, May 25, 1913.

1387997 shot disp.

No.	Dist.	Class	Remarks
109	5	B ₉	
110	5	B ₈	
111	3	B ₉	
112	2	A ₀	
113	6	B ₉	
114	2	A	Region of 3 rd superposed on other stars.
115	3	A	superposed on 116.
116	4	B ₉	
117	5	B ₉	
118	5	A ₀	
119	4	A ₀	Nearly all superposed on 118.
120	4	B ₉ A ₀	(Another star superposed at north.)
121	4	A ₀	
122	4	M ₃	
123	8	F ₅	
124	2	A ₂	
125	2	B ₉	
126	4	F ₂	
127	2	F ₂	
128	5	F ₀	
129	5	F ₀	
130	3	F ₂	
131	2	F ₅	The preceding of two.
132	1	A	Nearly all superposed on 133.
133	2	A ₂	
134	7	M ₃	
135	2	A ₀	

109	-51°	4674	10	15.4	-51	34.1	8.4	1	✓
110	-51°	4701	10	16.7	-51	24.0	8.5	1	✓
111	-51°	4684	10	16.0	-51	22.4	9.3	1	✓
112	-51°	4678	10	15.6	-51	25.0	9.2	1	✓
113	-50°	5097	10	17.8	-50	58.8	8.2	1	✓
114	-51°	4696	10	16.5	-51	11.9	9.5	1	✓
115	-51°	4698	10	16.6	-51	7.3	9.5	1	✓
116	-51°	4699	10	16.6	-51	3.7	9.4	1	✓
117	-51°	4693	10	16.4	-51	6.7	8.4	1	✓
118	-51°	4691	10	16.3	-51	5.4	8.6	1	✓
119	-51°	4690	10	16.3	-51	7.3	8.7	1	✓
120	-51°	4685	10	16.0	-51	14.1	9.3	1	✓
121	-51°	4680	10	15.8	-51	2.5	8.6	1	✓
122	-50°	5065	10	15.6	-50	49.3	7.7	1	✓
123	-50°	5055	10	15.0	-50	56.4	7.2	1	✓
124	-51°	4662	10	14.5	-51	11.5	9.7	1	✓
125	-51°	4656	10	14.2	-51	34.0	9.5	1	✓
126	-51°	4651	10	13.5	-51	42.3	8.0	1	✓
127	-52°	3476	10	13.6	-52	6.5	8.5	1	✓
128	-51°	4652	10	13.7	-51	7.2	8.3	1	✓
129	-51°	4637	10	13.1	-51	3.0	8.9	1	✓
130	-51°	4638	10	13.1	-51	19.2	8.4	1	✓
131	-51°	4632	10	12.6	-51	27.5	9.4	1	✓
132	-51°	4622	10	11.9	-51	17.5	9.7	1	✓
133	-51°	4621	10	11.8	-51	16.9	9.5	1	✓
134	-50°	4990	10	11.8	-50	34.9	6.9	1	✓
135	-50°	4971	10	11.0	-50	42.0	9.3	1	✓

Tuesday May 30, 1913

B 38797 shot airt.

No.	Lat	Class	Remark
136	6	B ₀	
137	10	F ₀	
138	4	A ₀	
139	2	F ₀	Comp? H-line appears faint.
140	1	F ₀	
141	2	A ₀	
142	1	H	
143	7	A ₀	
144	4	F ₀	
145	2	A ₀	
146	4	A ₂	
147	4	B ₇	
148	10+	B	Burned out.
149	3	A ₀	
150	3	A ₀	
151	1	H	
152	3	F ₀	
153	3	F ₀	
154	2	A ₀	
155	2	Ma	
156	7	A ₀	
157	5	A ₀	
158	4	F ₀	
159	6	F ₂	
160	4	A ₀	
161	7	B ₇	
162	7	F ₀	

136	-50°	4990	10	10.8	-50	38.1 34.4	7.8 6.7	Λ	✓
137	-50°	4924	10	8.6	-50	36.9	5.8	Λ	✓
138	-50°	4912	10	7.9	-50	48.0	9.0	Λ	✓
139	-50°	4910	10	7.8	-50	46.0	9.1	Λ	✓
140	-50°	4882	10	6.5	-50	40.1	9.0	Λ	✓
141	-51°	4836	10	6.0	-51	6.2	9.4	Λ	✓
142	-50°	4880	10	6.3	-50	23.0	8.7	Λ	✓
143	-50°	4878	10	6.2	-50	12.8	8.3	Λ	✓
144	-50°	4868	10	5.7	-50	33.0	8.6	Λ	✓
145	-50°	4860	10	5.2	-50	38.6	9.8	Λ	✓
146	-50°	4850	10	4.6	-50	40.4	9.2	Λ	✓
147	-50°	4843	10	4.5	-50	52.7	9.2	Λ	✓
148	-51°	4507	10	4.2	-51	11.8	5.3	Λ	✓
149	-51°	4511	10	4.4	-51	30.4	9.4	Λ	✓
150	-51°	4510	10	4.3	-51	44.1	9.2	Λ	✓
151	-51°	4515	10	4.6	-51	34.1	9.4	Λ	✓
152	-52°	3266	10	3.9	-52	12.9	8.7	Λ	✓
153	-52°	3265	10	3.8	-52	28.9	8.8	Λ	✓
154	-52°	3258	10	3.4	-52	30.0	8.9	Λ	✓
155	-52°	3245	10	2.9	-52	38.9	8.8	Λ	✓
156	-52°	3234	10	2.6	-52	29.8	8.2	Λ	✓
157	-52°	3214	10	1.8	-52	51.6	8.2	Λ	✓
158	-53°	3304	10	2.0	-53	5.2	8.0	Λ	✓
159	-53°	3311	10	2.3	-53	18.2	8.0	Λ	✓
160	-53°	3297	10	1.7	-53	27.4	8.1	Λ	✓
161	-53°	3318	10	2.6	-53	57.3	7.6	Λ	✓
162	-53°	3290	10	1.4	-53	59.2	7.8	Λ	✓

Sunday, May 25, 1913.

B31797 shot disp.

No.	Lat.	Class	Remark
163	1	F5	
164	6	B8	
165	4	B8	
166	1	Fo8	lines hazy.
167	2	A5	Faintly superimposed on B8.
168	4	B2	
169	3	A3	
170	3	F6	
171	2	B2	lines very hazy.
172	7	B8	
173	3	F5	
174	3	A3	
175	4	A3	
176	3	A3	
177	1	F5	
178	3	A0	
179	2	A0	
180	3	A0	
181	9	B8	
182	4	B9	
183	4	A3	
184	2	B8	
185	1	F6	
186	2	B9	
187	2	F12	
188	3	A0	
189	5	B3	

163	-54°	3101	10	1.0	-54	4.8	9.2	^	✓
164	-54°	3089	10	0.3	-54	20.6	7.9	^	✓
165	-54°	3063	9	59.0	-54	19.7	8.8	^	✓
166	-53°	3236	9	59.4	-53	55.7	9.2	^	✓
167	-54°	3055	9	58.6	-54	2.0	9.2	^	✓
168	-53°	3218	9	58.6	-53	57.3	8.4	^	✓
169	-54°	3045	9	57.9	-54	13.2	9.0	^	✓
170	-54°	3043	9	57.5	-54	24.7	8.6	^	✓
171	-54°	3033	9	57.2	-54	34.4	9.2	^	✓
172	-54°	3041	9	57.5	-54	24.1	8.0	^	✓
173	-54°	3034	9	57.3	-54	53.1	8.8	^	✓
174	-54°	3021	9	56.8	-54	58.7	8.8	^	✓
175	-55°	2853	9	59.3	-55	6.8	8.4	^	✓
176	-55°	2834	9	58.6	-55	6.8	8.8	^	✓
177	-55°	2825	9	58.2	-55	16.0	9.2	^	✓
178	-55°	2809	9	57.4	-55	25.6	8.6	^	✓
179	-55°	2803	9	57.2	-55	32.1	9.7	^	✓
180	-55°	2792	9	56.8	-55	41.2	8.8	^	✓
181	-55°	2794	9	56.9	-55	29.7	7.4	^	✓
182	-55°	2793	9	56.8	-55	23.6	8.6	^	✓
183	-54°	2986	9	55.3	-54	45.9	8.8	^	✓
184	-54°	3007	9	56.1	-54	32.5	9.2	^	✓
185	-54°	3013	9	56.3	-54	26.3	9.2	^	✓
186	-54°	3025	9	57.1	-54	12.3	9.2	^	✓
187	-54°	3020	9	56.8	-54	7.0	9.0	^	✓
188	-54°	3015	9	56.5	-54	13.9	9.2	^	✓
189	-53°	3193	9	57.4	-53	36.2	8.1	^	✓

54° 3026 9 57.1 54 9.0
map. 9d superimposed.

Tuesday, Mar 25, 1913.

B38797 short exp.

No.	Int.	Class	Remarks
190	2	A2	
191	2	F2	
192	4	A3	
193	5	A	Auricular star of same class superposed at north
194	3	F5	
195	7	B3	
196	5	B5	
197	10	B5	
198	2	G5	
199	3	F2	
200	4	F2	
201	3	F2	
202	6	F2	
203	3	B7	
204	3	A0	
205	3	B9	
206	1	Ma	
207	5	F0	
207a	6	A0	
208	2	F8	
209	3	A2	
210	9	B9	
211	7	A2	The northern of two close stars.
10.52	212	5	A B & C superposed on 211.
11.19	213	7	G5
	214	2	G5
	215	4	A0
	216	8	B8

190	-53°	3181	9	56.9	-53	34.2	9.2	1 ✓
191	-53°	3272	10	0.6	-53	3.7	9.2	1 ✓
192	-52°	3186	10	0.6	-52	52.9	8.6	1 ✓
193	-52°	3158	9	59.5	-52	19.6	8.4	52° 31.58 superposed
194	-52°	3143	9	58.9	-52	26.9	8.4	1 ✓
195	-52°	3120	9	58.0	-52	32.7	8.0	1 ✓
196	-52°	3097	9	57.4	-52	24.2	8.3	1 ✓
197	-52°	3087	9	57.2	-52	45.7	7.2	1 ✓
198	-52°	3063	9	56.3	-52	31.4	8.8	1 ✓
199	-52°	3047	9	55.8	-52	41.4	8.8	1 ✓
200	-52°	3029	9	55.2	-52	37.3	8.8	1 ✓
201	-53°	3167	9	55.6	-53	24.3	9.4	1 ✓
202	-51°	4485	10	2.5	-51	55.7	8.0	1 ✓
203	-52°	3223	9 10	2.2	-52	2.2	8.6	1 ✓
204	-51°	4482	10	2.3	-51	42.4	9.2	1 ✓
205	-51°	4475	10	1.8	-51	51.3	9.3	1 ✓
206	-52°	3193	10	0.9	-52	1.1	9.1	1 ✓
207	-51°	4451	10	0.2	-51	25.1	7.6	1 ✓
207a	-51°	4466	10	1.1	-51	47.9	8.9	1 ✓
208	-51°	4449	10	0.0	-51	26.7	9.6	1 ✓
209	-51°	4460	10	0.8	-51	1.4	9.4	1 ✓
210	-51°	4447	9	59.8	-51	11.7	8.0	1 ✓
211	-51°	4439	9	58.5	-51	26.7	8.1	1 ✓
212	-51°	4435	9	58.5	-51	27.3	8.7	1 ✓
213	-51°	4471	10	1.5	-51	34.8	7.2	1 ✓
214	-51°	4470	10	1.7	-51	26.9	8.7	1 ✓
215	-50°	4824	10	3.0	-50	24.3	8.7	1 ✓
216	-50°	4813	10	2.1	-50	28.1	7.3	1 ✓

Tuesday, May 25, 1913.

B 30797 short dirp.

No. Lat. Class Remark

217	5	B3	
218	3	A0	
219	3	A2	
220	1	F0	
221	2	F2	
222	5	F0	
223	8	A0	
224	1	F5	
225	2	F5	
226	4	A0	
227	3	A2	
228	2	A5	
229	3	A2	
230	1	A2	
231	2	A2	
232	3	F0	
233	5	A0	
234	2	F0	
235	2	F5	
236	4	A0	
237	8	B2	
238	3	A5	
239	6	A3	
240	1	F2	
241	3	A0	
242	7	F0	
243	2	A2	

217	-50°	4847	10	4.5	-50	1.6	8.5	1	✓
218	-50°	4836	10	4.0	-50	11.2	8.9	1	✓
219	-51°	4782	10	23.2	-51	25.2	9.2	1	✓
220	-51°	4787	10	23.6	-51	8.7	9.0	1	✓
221	-51°	4784	10	23.4	-51	3.8	9.1	1	✓
222	-50°	5176	10	23.5	-50	43.2	8.6	1	✓
223	-50°	5177	10	23.5	-50	26.0	8.1	1	✓
224	-50°	5162	10	22.7	-50	57.2	8.3	1	✓
225	-50°	5156	10	22.2	-50	53.9	8.4	1	✓
226	-50°	5148	10	21.8	-50	46.3	8.5	1	✓
227	-51°	4744	10	19.8	-51	10.1	8.9	1	✓
228	-51°	4741	10	19.5	-51	4.7	9.3	1	✓
229	-51°	4740	10	19.5	-51	31.8	9.6	1	✓
230	-51°	4739	10	19.5	-51	23.9	9.7	1	✓
231	-51°	4737	10	19.2	-51	25.7	9.4	1	✓
232	-50°	5081	10	16.7	-50	28.2	8.7	1	✓
233	-50°	5078	10	16.6	-50	36.7	9.0	1	✓
234	-50°	5069	10	16.1	-50	48.3	8.8	1	✓
235	-50°	5066	10	15.6	-50	30.9	9.4	1	✓
236	-50°	5062	10	15.2	-50	8.6	9.1	1	✓
237	-50°	5046	10	14.1	-50	5.4	7.2	1	✓
238	-50°	5038	10	13.7	-50	4.0	9.4	1	✓
239	-50°	5024	10	13.3	-50	11.9	8.2	1	✓
240	-50°	5015	10	12.9	-50	17.7	9.0	1	✓
241	-49°	5126	10	12.5	-49	57.6	9.3	1	✓
242	-49°	5095	10	10.9	-49	33.3	7.5	1	✓
243	-49°	5078	10	9.7	-49	58.4	9.5	1	✓

Tuesday, Mar. 25, 1913.

B31997 shot dup

No.	Int.	Class	Remarks
244	1	F ₀	
245	5	F ₀	
246	4	F ₂	
247	2	F ₂	
248	6	A ₂	
249	1	F ₀	Nearly all superimposed on 248.
250	4	B ₃	
251	2	B ₃	
252	1	B ₃	
253	4	A ₂	
254	7	B ₃	
255	8	B ₃	
256	5	F ₀	
257	3	F ₀	
258	10	B ₃	
259	4	B ₃	
260	2	F ₀	
261	1	F ₀	
262	2	F ₀	
263	2	A ₂	
264	1	F ₀	
265	3	F ₀	
266	7	A ₀	
267	4	A ₀	
268	8.5	A ₀	
269	10	B ₃	
270	4	B ₃	

244	-49°	5075	10	9.4	-49	55.0	9.0	^	✓
245	-49°	5062	10	8.7	-49	50.6	8.0	^	✓
246	-49°	5060	10	8.4	-49	59.5	8.0	^	✓
247	-50°	4946	10	8.2	-50	7.6	9.4	^	✓
248	-50°	4922	10	8.5	-50	16.9	9.3	^	✓
249	-50°	4923	10	8.5	-50	17.4	8.6	^	✓
250	-50°	4919	10	8.3	-50	28.8	8.8	^	✓
251	-50°	4984	10	11.6	-50	18.2	10	^	✓
252	-50°	4995	10	12.0	-50	23.4	9.8	^	✓
253	-49°	5048	10	7.7	-49	39.4	9.3	^	✓
254	-49°	5032	10	6.6	-49	52.5	7.8	^	✓
255	-49°	5039	10	6.9	-49	32.4	7.7	^	✓
256	-49°	4994	10	4.2	-49	10.3	7.9	^	✓
257	-50°	4806	10	1.5	-50	16.4	8.6	^	✓
258	-50°	4791	10	0.3	-50	42.2	6.5	^	✓
259	-50°	4767	9	59.0	-50	28.4	8.7	^	✓
260	-50°	4750	9	57.2	-50	9.6	8.5	^	✓
261	-50°	4740	9	56.7	-50	41.2	8.9	^	✓
262	-50°	4729	9	55.9	-50	29.4	8.9	^	✓
263	-51°	4398	9	55.7	-51	6.4	9.5	^	✓
264	-51°	4366	9	54.3	-51	13.9	9.4	^	✓
265	-51°	4342	9	53.0	-51	19.3	8.6	^	✓
266	-51°	4334	9	52.1	-51	14.4	8.3	^	✓
267	-52°	4325	9	51.4	-52	42.0	8.9	^	✓
268	-52°	4321	9	51.1	-52	42.7	8.4	^	✓
269	-52°	2980	9	52.7	-52	2.6	7.3	^	✓
270	-52°	2996	9	53.5	-52	17.7	8.2	^	✓

Tuesday May 25, 1913

B38997 shot up.

No. Int. Class Remark

271	1	B5	
272	5	B5	
273	8	B5	
274	2	A2	
275	3	A2	
276	7	B3	
277	3	B3	
278	10+	B3	Remained out.
279	6	A3	
280	3	A0	
281	4	B3	
282	2	A2	
283	8	B0	
284	3	A3	
285	5	A0	
286	4	A2	
287	6	A2	
288	3	A5	
289	2	A2	
290	3	A2	
291	2	A0	
292	2	A0	
293	4	B3	
294	4	A0	
295	5	F0	
296	4	F0	
297	3	A0	

11.37

271	-52°	2993	9	53.3	-52	13.3	8.8	1	✓
272	-52°	2985	9	51.4	-52	23.1	8.0	1	✓
273	-53°	3052	9	51.8	-53	1.7	7.1	1	✓
274	-52°	2989	9	52.9	-52	50.3	8.9	1	✓
275	-53°	3045	9	51.6	-53	28.3	8.7	1	✓
276	-53°	3068	9	52.2	-53	49.6	7.8	1	✓
277	-53°	3094	9	53.1	-53	47.3	8.6	1	✓
278	-53°	3075	9	52.5	-53	58.4	4.4	1	✓
279	-54°	2909	9	52.4	-54	29.3	7.7	1	✓
280	-54°	2862	9	50.5	-54	33.3	8.2	1	✓
281	-54°	2842	9	49.6	-54	15.4	7.9	1	✓
282	-54°	2840	9	49.6	-54	12.3	8.6	1	✓
283	-54°	2816	9	48.7	-54	47.1	7.0	1	✓
284	-55°	2681	9	51.9	-55	18.8	8.4	1	✓
285	-55°	2666	9	51.2	-55	42.3	8.0	1	✓
286	-55°	2723	9	53.6	-55	56.4	8.0	1	✓
287	-56°	2694	9	53.4	-56	16.1	8.2	1	✓
288	-56°	2717	9	54.5	-56	4.7	9.2	1	✓
289	-55°	2751	9	54.8	-55	52.7	9.0	1	✓
290	-55°	2756	9	54.9	-55	43.4	8.6	1	✓
291	-55°	2744	9	54.4	-55	45.7	9.1	1	✓
292	-55°	2729	9	53.8	-55	44.1	9.0	1	✓
293	-55°	2725	9	53.7	-55	34.5	8.3	1	✓
294	-55°	2704	9	53.8	-55	28.3	8.3	1	✓
295	-56°	2703	9	53.4	-56	48.6	8.2	1	✓

Identified by J.B.M. Dec. 15, 1913

296 -56° 2875 10 3.2 -56 56.4 8.2 1 ✓

297 -57° 2708 10 4.2 -57 6.7 8.6 1 ✓

Checked March 11, 1914 J.B.W. Cards checked by J.B.W. Cards made out by J.B.W.

Tuesday, May 25, 1913

B 37422 short circ.

No.	Lat.	Class	Remarks
28	2	A ₀	
29	3	A ₀	
30	3	A ₀	
31	4	A ₂	
32	2	A ₀	
33	2	A ₀	
34	5	A ₀	
35	1	A ₀	
36	7	A ₀	
37	6	A ₀	
38	3	A ₅	
39	1	A ₅	
40	2	A ₀	The minimum of two.
41	2	A ₀	
42	2	B ₈	
43	3	B ₈	
44	2	A ₀	
45	1	A ₀	
46	1	A ₀	
47	2	A ₂	
48	2	A ₀	The preceding of two.
49	2	A ₀	
50	2	A ₀	
51	7	B ₈	
52	4	B ₉	
53	3	B	has too indistinct to subdivide.
54	6	B	Almost cont. maybe G 5.

28	-52°	3026	9	54.9	-52	16.6	9.2	1✓
29	-52°	3010	9	54.3	-52	32.9	8.9	1✓
30	-51°	4373	9	54.5	-51	39.6	9.1	1✓
31	-52°	2989	9	52.9	-52	50.3	8.9	1✓
32	-52°	2970	9	52.2	-52	42.6	9.0	1✓
33	-52°	2967	9	52.1	-52	26.2	9.1	1✓
34	-52°	2926	9	49.9	-52	23.8	8.7	1✓
35	-52°	2923	9	49.7	-52	27.2	9.2	1✓
36	-52°	2918	9	49.2	-52	49.0	8.1	1✓
37	-52°	2907	9	48.2	-52	55.7	8.6	1✓
38	-53°	2996	9	49.2	-53	16.5	9.0	1✓
39	-53°	3006	9	49.8	-53	3.1	9.2	1✓
40	-53°	3010	9	50.1	-53	22.2	9.4	1✓
41	-53°	3032	9	51.0	-53	27.3	9.0	1✓
42	-53°	3126	9	54.3	-53	16.5	9.2	1✓
43	-53°	3104	9	53.5	-53	11.3	9.0	1✓
44	-53°	3091	9	52.9	-53	15.9	9.4	1✓
45	-53°	3083	9	52.8	-53	26.1	9.6	1✓
46	-53°	3050	9	51.7	-53	50.4	9.5	1✓
47	-53°	3035	9	51.1	-53	43.8	9.4	1✓
48	-53°	3024	9	50.7	-53	47.9	9.0	1✓
49	-53°	3008	9	49.9	-53	37.8	9.6	1✓
50	-53°	2997	9	49.2	-53	38.1	9.2	1✓
51	-53°	2974	9	49.1	-53	42.1	8.4	1✓
52	-53°	2984	9	48.6	-53	37.2	8.6	1✓
53	-53°	2976	9	48.3	-53	43.9	9.0	1✓
54	-53°	2964	9	47.8	-53	41.9	8.4	1✓

-52° = 988 9 52.9-52.500
mag. 9.6 superposed.

-53° 3009 9 50.1-53.247
mag. 9.4 superposed.

Tuesday, May 25, 1913.

BS 408 shot disp.

No.	Lat.	Class	Remarks
55	3	Co	
56	8	Co	
57	4	Co	
58	2	Co	
59	3	Co	
60	2	Co	
61	1	Co	
62	2	Co	
63	7	Co	
64	3	Co	
65	2	Co	
66	2	Co	
67	5	Co	
68	4	BS	Partly rephased on Co.
69	6	Co	
70	7 4	Co	
71	7	Co	
72	3	BS	Almost cent.
73	4	Co	
74	6	Co	
75	8	Co	
76	5	Co	
77	3	Co	
78	1	Co	
79	2	Co	
80	1	Co	
81	1	Co	

55	-53°	2957	9	47.5	-53	45.7	9.2	1 ✓
56	-54°	2765 ⁹²	9	47.4	-54	45.2	9.2	1 ✓
57	-54°	2800	9	47.9	-54	0.6	9.0	1 ✓
58	-54°	2815	9	48.7	-54	9.7	9.4	1 ✓
59	-54°	2765	9	46.3	-54	5.2	9.2	1 ✓
60	-53°	2977	9	48.3	-53	22.0	9.4	1 ✓
61	-53°	2981	9	48.5	-53	19.6	9.5	1 ✓
62	-53°	2963	9	47.7	-53	26.5	9.6	1 ✓
63	-53°	2968	9	47.8	-53	18.4	8.1	1 ✓
64	-53°	2952	9	47.1	-53	16.2	9.0	1 ✓
65	-53°	2955	9	47.2	-53	6.7	9.4	1 ✓
66	-53°	2950	9	47.0	-53	12.9	9.2	1 ✓
67	-52°	2876	9	46.5	-52	58.2	8.9	1 ✓
68	-52°	2885	9	46.8	-52	35.7	8.6	1 ✓
69	-52°	2883	9	46.8	-52	35.9	8.6	1 ✓
70	-52°	2878	9	46.6	-52	41.6	8.7	1 ✓
71	-52°	2875	9	46.5	-52	43.1	8.4	1 ✓
72	-52°	2872	9	46.4	-52	48.2	8.6	1 ✓
73	-52°	2853	9	45.4	-52	29.7	8.8	1 ✓
74	-52°	2887	9	47.0	-52	18.4	8.6	1 ✓
75	-52°	2903	9	47.9	-52	3.8	8.3	1 ✓
76	-52°	2911	9	48.7	-52	17.5	8.6	1 ✓
77	-52°	2933	9	50.4	-52	3.1	8.8	1 ✓
78	-51°	4327	9	51.4	-51	59.2	9.8	1 ✓
79	-51°	4366	9	54.3	-51	13.9	9.4	1 ✓
80	-51°	4390	9	55.2	-51	14.9	9.4	1 ✓
81	-51°	4360	9	54.0	-51	16.0	9.5	1 ✓

Tuesday May 25, 1913.

B37408 short arcs.

No.	Lat.	Class	Remarks
82	1	A3	
83	1	B9	
84	2	B9	
85	2	A5	
86	4	A5	
87	3	A5	
88	1	A5	
89	6	B8	
90	2	A2	
91	7	A5	
92	1	A6	
93	2	A2	
94	6	A5	
95	1	A5	
96	1	A	
97	4	A2	
98	3	A2	
99	8	B8	
100	7	A5	
101	6	A5	
102	5	A2	
103	5	A5	
104	2	A	
105	6	A5	
106	1	A2	
107	3	A5	
108	7	A2	

82	-51°	4347	9	53.3	-51	41.2	10	1✓
83	-51°	4369	9	54.3	-51	56.6	9.7	1✓
84	-52°	3039	9	55.6	-52	24.3	9.0	1✓
85	-50°	4635	9	50.1	-50	56.9	9.4	1✓
86	-51°	4295	9	49.6	-51	10.0	9.0	1✓
87	-51°	4291	9	49.3	-51	2.6	9.5	1✓
88	-51°	4284	9	48.9	-51	8.8	9.2	1✓
89	-51°	4282	9	48.8	-51	17.1	9.4	1✓
90	-51°	4280	9	48.7	-51	29.1	9.1	1✓
91	-51°	4273	9	48.5	-51	31.4	8.2	1✓
92	-51°	4279	9	48.7	-51	58.9	9.9	1✓
93	-51°	4267	9	48.2	-51	50.6	10	1✓
94	-51°	4257	9	47.5	-51	46.8	9.3	1✓
95	-51°	4241	9	46.6	-51	58.0	10	1✓
96	-51°	4233	9	46.3	-51	56.4	9.8	1✓
97	-51°	4234	9	46.3	-51	34.8	9.3	1✓
98	-51°	4228	9	46.0	-51	22.0	9.8	1✓
99	-51°	4243	9	45.1	-51	32.9	7.8	1✓
100	-52°	2830	9	44.4	-52	2.6	8.4	1✓
101	-51°	4196	9	44.0	-51	55.9	8.5	1✓
102	-51°	4199	9	44.2	-51	50.4	9.4	1✓
103	-52°	2827	9	44.2	-52	25.6	8.6	1✓
104	-52°	2823	9	43.9	-52	23.6	9.0	1✓
105	-53°	2912	9	44.5	-53	0.4	8.4	1✓
106	-52°	2839	9	44.8	-52	56.8	9.3	1✓
107	-53°	2920	9	45.1	-53	19.8	9.2	1✓
108	-53°	2925	9	45.4	-53	28.8	8.4	1✓

Tuesday, May 25, 1913.

B 38408 short exp.

Ins.	Int.	Class	Remarks
109	2	g ₀	
110	4	g ₀	
111	2	g ₀	
112	6	g ₀	
113	8	g ₀	
114	2	g ₀	
115	2	g ₀	
116	2	g ₀	
117	5	g ₀	
118	7	g ₀	
119	7	B ₀	
120	3	g ₀	
121	2	g ₀	
122	3	g ₀	
123	1	g ₀	
124	1	g ₀	
125	3	g ₀	
126	1	g ₀	
127	1	g ₀	
128	1	g ₀	
129	3	g ₀	
130	3	g ₀	
131	1	g ₀	
132	2	g ₀	
133	4	g ₀	
134	3	g ₀	
135	1	g ₀	

109	-53°	2924	9	45.3	-53	53.8	9.2	1✓
110	-53°	2919	9	45.0	-53	56.8	9.0	1✓
111	-53°	2914	9	45.0	-53	56.8	9.5	1✓
112	-54°	2725	9	48.8	-54	0.0	9.0	1✓
113	-53°	2902	9	43.9	-53	49.0	8.2	1✓
114	-54°	2742	9	44.8	-54	26.7	9.2	1✓
115	-54°	2738	9	44.5	-54	22.5	9.4	1✓
116	-54°	2744	9	45.1	-54	43.9	9.4	1✓
117	-54°	2759	9	46.1	-54	41.2	8.6	1✓
118	-54°	2780	9	47.4	-54	47.8	8.2	1✓
119	-54°	2808	9	48.4	-54	52.0	8.2	1✓
120	-55°	2648	9	50.1	-55	2.1	8.9	1✓
121	-55°	2660	9	50.7	-55	1.7	9.2	1✓
122	-54°	2873	9	57.0	-54	55.5	9.0	1✓
123	-54°	2861	9	50.4	-54	45.5	9.8	1✓
124	-54°	2902	9	52.1	-54	48.9	9.4	1✓
125	-54°	2846	9	49.9	-54	30.4	9.0	1✓
126	-54°	2837	9	49.5	-54	29.6	9.8	1✓
127	-54°	2831	9	49.1	-54	23.0	9.4	1✓
128	-54°	2820	9	48.8	-54	25.9	10.0	1✓
129	-55°	2639	9	49.6	-55	17.9	9.2	1✓
130	-55°	2634	9	49.5	-55	24.4	9.0	1✓
131	-55°	2618	9	48.4	-55	37.8	9.2	1✓
132	-55°	2619	9	48.4	-55	27.8	9.0	1✓
133	-55°	2600	9	47.6	-55	54.8	8.7	1✓
134	-55°	2593	9	47.1	-55	40.9	9.0	1✓
135	-55°	2588	9	46.8	-55	34.8	9.2	1✓

Tuesday, May 25, 1913

B38457 short dup.

No.	Lat.	Class	Remark
136	2	As	The preceding of two.
137	2	As	
138	3	As	
139	3	As	
140	3	As	
141	4	Ma	
142	5	As	
143	3	B ₉	
144	3	As	
145	5	As	
146	3	As	
147	4	B ₅	
148	2	B ₅	
149	5	B ₅	
150	4	B ₅	
151	10	B ₅	
152	3	As	
153	2	B ₅	
154	6	As	
155	2	B ₅	
156	3	B ₅	
157	4	B ₅	
158	7	B ₅	
159	2	B ₅	
160	2	As	
161	3	B ₉	Another star superposed.
162	4	B ₅	

136	-55°	26.13	9	48.2	-55	9.4	9.2	1	-55° 26.13 9.4 9.2 mag. 9.5 superposed.
137	-55°	25.92	9	47.0	-55	6.3	9.2	1	
138	-55°	25.79	9	46.4	-55	19.4	9.0	1	
139	-54°	27.57	9	46.0	-54	57.5	9.2	1	
140	-55°	25.64	9	45.6	-55	6.5	9.0	1	
141	-54°	27.37	9	44.5	-54	54.8	9.0	1	-54° 27.37 9.4 9.2 9.0 mag. 9.5 superposed.
142	-54°	27.35	9	44.3	-54	53.6	8.8	1	
143	-54°	27.31	9	44.0	-54	42.6	9.0	1	
144	-54°	27.03	9	42.7	-54	50.7	9.0	1	
145	-54°	27.00	9	42.5	-54	45.8	8.6	1	
146	-55°	25.39	9	43.7	-55	12.2	9.0	1	
147	-55°	25.40	9	43.7	-55	22.5	8.8	1	
148	-55°	25.42	9	43.9	-55	23.0	9.0	1	
149	-55°	25.44	9	44.0	-55	37.1	8.6	1	
150	-55°	25.36	9	43.6	-55	51.8	8.3	1	
151	-55°	25.48	9	44.6	-55	49.8	7.6	1	
152	-55°	25.38	9	45.1	-55	51.8	9.0	1	-55° 25.38 9.4 9.2 9.0 mag. 9.6 superposed.
153	-55°	25.54	9	44.8	-55	37.4	9.2	1	
154	-56°	25.14	9	42.5	-56	0.1	8.4	1	
155	-55°	24.87	9	40.9	-55	52.8	9.2	1	
156	-55°	25.07	9	42.0	-55	13.0	9.0	1	
157	-55°	25.00	9	41.5	-55	10.0	8.7	1	
158	-55°	24.85	9	40.8	-55	26.5	7.9	1	
159	-55°	24.79	9	40.4	-55	26.5	7.4	1	
160	-55°	24.84	9	40.8	-55	14.8	9.0	1	
161	-55°	24.83	9	40.6	-55	5.6	9.0	1	-55° 24.82 9.4 9.2 mag. 9.6 superposed.
162	-55°	24.75	9	40.3	-55	3.4	8.7	1	

Tuesday, May 25, 1913.

B3R402 short exp.

No.	Lat.	Class	Remarks
163	2	A ₀	
164	4	A ₂	
165	5	F ₂	
166	4	F ₂	
167	1	S ₁₀	
168	1	G ₀	
169	3	A ₃	
170	5	A ₂	
171	6	B ₂	
172	1	A ₃	
173	2	A ₀	
174	1	A	
175	1	S ₁₀	
176	5	G ₅	
177	1	G ₅	
178	4	A ₃	
179	2	F ₅	
180	3	A ₀	
181	4	B	Almost cont.
182	1	A ₀	
183	3	A ₂	
184	3	A ₃	
185	3	G ₅	
186	3	F ₂	
187	2	A ₀	
188	5	A ₂	
189	2	A ₀	

163	-54°	2667	9	41.1	-54	58.7	9.4	1✓
164	-54°	2658	9	40.8	-54	43.8	9.0	1✓
165	-54°	2656	9	40.7	-54	31.0	8.9	1✓
166	-54°	2669	9	41.2	-54	10.7	9.0	1✓
167	-53°	2899	9	43.9	-53	39.0	9.6	1✓
168	-53°	2885	9	43.3	-53	43.2	9.2	1✓
169	-53°	2881	9	42.9	-53	43.2	9.2	1✓
170	-53°	2878	9	42.8	-53	37.5	8.7	1✓
171	-53°	2865	9	42.1	-53	34.4	8.6	1✓
172	-53°	2850	9	41.5	-53	49.2	9.5	1✓
173	-53°	2884	9	43.2	-53	11.3	9.0	1✓
174	-52°	2805	9	43.0	-52	44.0	9.5	1✓
175	-52°	2796	9	42.4	-52	51.5	9.3	1✓
176	-52°	2772	9	41.0	-52	51.5	8.5	1✓
177	-53°	2866	9	42.4	-53	34.4	8.6	1✓
178	-53°	2843	9	41.3	-53	22.7	9.0	1✓
179	-52°	2802	9	42.8	-52	6.6	9.0	1✓
180	-52°	2797	9	42.5	-52	2.1	9.1	1✓
181	-52°	2793	9	42.2	-52	22.9	8.8	1✓
182	-52°	2789	9	42.0	-52	28.6	9.2	1✓
183	-52°	2788	9	42.0	-52	22.9	9.0	1✓
184	-52°	2782	9	41.6	-52	21.4	9.0	1✓
185	-52°	2771	9	41.0	-52	40.5	9.0	1✓
186	-53°	2824	9	40.6	-53	52.4	9.2	1✓
187	-54°	2645	9	40.0	-54	21.8	9.4	1✓
188	-54°	2642	9	39.8	-54	28.6	8.6	1✓
189	-54°	2644	9	39.8	-54	14.0	9.0	1✓

Sunday, Mar. 25, 1913.

B3848 short dup.

No. Lat. Class Remark

190	5	As	
191	2	As	
192	3	As	The preceding of two.
193	2	As	
194	9	As	
195	5	B3	
196	3	B?	Almost cont. Partly superposed on 195.
197	8	B3	
198	2	As	
199	2	As	
200	2	Ma	
201	2	As	
202	1	As	
203	1	As	
204	6	As	
205	1	As	
206	3	As	
207	2	As	
208	3	As	
209	3	As	
210	4	As	
211			
212			
213			
214			
215	3	As	

Time: 12.25

190	-54°	2632	9	39.2	-54	26.8	8.7	1✓
191	-53°	2784	9	39.3	-53	54.1	9.4	1✓
192	-53°	2804	9	39.8	-53	39.0	9.0	1✓
193	-53°	2805	9	39.8	-53	31.1	9.6	1✓
194	-53°	2836	9	41.0	-53	40.2	7.4	1✓
195	-53°	2840	9	41.2	-53	43.4	8.3	1✓
196	-53°	2841	9	41.2	-53	47.7	9.0	1✓
197	-54°	2618	9	38.8	-54	11.7	7.9	1✓
198	-53°	2773	9	38.9	-53	54.6	9.4	1✓
199	-53°	2771	9	38.8	-53	39.9	9.4	1✓
200	-53°	2767	9	38.6	-53	21.0	9.8	1✓
201	-53°	2738	9	37.3	-53	51.3	9.2	1✓
202	-53°	2731	9	37.1	-53	40.5	9.2	1✓
203	-53°	2725	9	36.7	-53	30.5	9.6	1✓
204	-53°	2714	9	36.3	-53	49.1	8.3	1✓
205	-53°	2704	9	35.7	-53	44.9	9.5	1✓
206	-53°	2697	9	35.4	-53	54.9	9.0	1✓
207	-54°	2557	9	35.6	-54	3.6	9.4	1✓
208	-54°	2565	9	35.8	-54	13.0	9.0	1✓
209	-53°	2696	9	35.4	-53	45.2	8.9	1✓
210	-53°	2693	9	35.3	-53	42.0	8.6	1✓

Identified by J. B. M. Dec. 12, 1913.

Checked Jan. 9th 1913 J.B.W.

Cards made out by C. R. B.

Cards checked by AmC.

✓ 211 -56 2764 9 37.2 -56 4x 9.0 191 on B4 0105

Tuesday, April 1, 1913

Time: 11:20

139676 short airp.

146 -53

Mr. Lint. Class Remarks

1	2	70
2	2	70
3	3	72
4	1	75
5	1	75
6	2	75
7	1	75
8	2	75
9	4	75
10	1	75
11	1	70
12	2	75
13	1	70
14	2	70
15	1	75
16	2	75
17	5	70
18	5	70
19	2	70
20	3	70
21	5	70
22	3	75
23	4	78
24	2	75
25	2	70
26	3	70
27	4	78

1	-54°	347	1	29.0	-54	20.8	9.1	Λ ₁
2	-54°	349	1	29.9	-54	36.9	9.1	Λ ₁
3	-55°	321	1	27.7	-55	23.0	9.0	Λ ₁
4	-55°	331	1	32.2	-55	11.8	9.6	Λ ₁
5	-55°	332	1	32.3	-55	7.1	9.4	Λ ₁
6	-56°	323	1	32.5	-56	54.5	9.0	Λ ₁
7	-55°	335	1	34.1	-55	58.2	9.2	Λ ₁
8	-54°	369	1	38.3	-54	51.9	8.8	Λ ₁
9	-54°	374	1	40.4	-54	38.0	8.8	Λ ₁
10	-54°	372	1	39.2	-54	25.5	9.2	Λ ₁
11	-53°	351	1	40.0	-53	57.9	9.2	Λ ₁
12	-54°	378	1	42.7	-54	30.3	8.8	Λ ₁
13	-53°	359	1	44.3	-53	55.9	9.2	Λ ₁
14	-53°	360	1	44.4	-53	37.9	9.0	Λ ₁
15	-53°	361	1	44.7	-53	31.9	9.1	Λ ₁
16	-53°	357	1	43.9	-53	4.7	9.0	Λ ₁
17	-52°	218	1	42.4	-52	25.5	8.1	Λ ₁
18	-52°	225	1	44.0	-52	15.2	7.4	Λ ₁
19	-51°	444	1	46.1	-51	17.1	8.8	Λ ₁
20	-50°	515	1	46.3	-50	57.0	9.3	Λ ₁
21	-50°	516	1	46.4	-50	35.5	9.0	Λ ₁
22	-50°	510	1	45.5	-50	29.1	9.2	Λ ₁
23	-50°	503	1	44.7	-50	52.3	9.2	Λ ₁
24	-50°	511	1	45.5	-50	54.2	9.3	Λ ₁
25	-50°	512	1	45.8	-50	52.7	9.4	Λ ₁
26	-51°	452	1	48.3	-51	33.6	9.3	Λ ₁
27	-51°	457	1	48.9	-51	28.6	9.1	Λ ₁

Cards run and out

Tuesday, April 1, 1913

B 39676 short deep

No. Int. Class Remark

28	3	F2	
29	3	F2	
30	4	F2	
31	2	F2	
32	4	F2	
33	3	F2	
34	2	F2	
35	4	F2	
36	1	F2	
37	3	F2	
38	4	F2	
39	2	F2	
40	2	F2	
41	9	F2	
42	1	F2	
43	2	F2	
44	3	F2	
45	2	F2	
46	2	F2	
47	1	F2	
48	2	F2	
49	3	F2	
50	2	F2	
51	2	F2	
52	3	F2	
53	3	F2	
54	2	F2	

C. 700000000

28 - 51°	462	1	49.8	-51	14.3	8.9	1.1
29 - 50°	573	1	50.6	-50	59.1	9.5	1.1
30 - 51°	473	1	52.0	-51	5.1	9.6	1.1
31 - 50°	551	1	52.3	-50	57.4	9.4	1.1
32 - 50°	559	1	54.5	-50	45.0	8.6	1.1
33 - 51°	488	1	55.1	-51	10.4	8.7	1.1
34 - 51°	482	1	53.6	-51	32.4	9.1	1.1
35 - 52°	250	1	55.2	-52	12.3	8.6	1.1
36 - 51°	501	1	57.7	-51	20.3	9.5	1.1
37 - 51°	507	1	59.7	-51	45.0	9.1	1.1
38 - 51°	510	2	0.1	-51	4.2	8.8	1.1
39 - 51°	520	2	2.4	-51	14.3	8.1	1.1
40 - 52°	268	2	3.0	-52	1.9	9.1	1.1
41 - 52°	263	2	1.0	-52	35.3	7.4	1.1
42 - 52°	264	2	1.9	-52	45.9	9.1	1.1
43 - 53°	291	2	0.8	-53	28.8	9.0	1.1
44 - 54°	294	2	2.8	-53	47.6	8.2	1.1
45 - 54°	415	2	0.0	-54	15.1	9.0	1.1
46 - 54°	416	2	1.1	-54	51.2	9.0	1.1
47 - 54°	417	2	1.2	-54	48.0	8.8	1.1
48 - 54°	419	2	3.0	-54	26.8	9.2	1.1
49 - 55°	386	2	1.1	-55	38.0	8.8	1.1
50 - 55°	390	2	2.2	-55	31.2	8.7	1.1
51 - 55°	391	2	2.8	-55	44.8	9.0	1.1
52 - 55°	393	2	4.1	-55	26.6	8.7	1.1
53 - 55°	399	2	5.8	-55	43.6	8.7	1.1
54 - 55°	402	2	6.0	-55	15.2	8.7	1.1
55 - 54°	433	2	8.6	-54	50.0	8.8	1.1

Cards made out

Tuesday, April 1, 1913.

13 39 676 short circ.

No. Lat. Class Remark

55	2	H ₀	
56	3	H ₀	
57	7	H ₀ E.	
58	2	A ₂	
59	2	H ₀	
60	2	H ₀	
61	1	H ₂	
62	2	H ₀	
63	3	H ₀	
64	4	F ₀	
65	2	H ₀	
66	3	H ₀	
67	3	A ₀	
68	2	H ₀	
69	1	H ₀	
70	2	H ₀	
71	2	H ₀	Partly outpoured on 70.
72	4	H ₀	
73	2	F ₀	
74	1	H ₀	
75	1	H ₀	
76	1	H ₀	
77	2	H ₀	
78	2	H ₀ E.	
79	3	H ₀ E.	
80	1	H ₀	
81	2	H ₀	

55-55°	404	2	10.6	-55	2.1	8.8	1	✓
56-55°	405	2	14.5	-55	26.1	8.6	1	✓
57-55°	417	2	15.5	-55	35.5	8.1	1	✓
58-54°	395	1	49.4	-54	26.3	8.8	1	✓
59-54°	383	1	45.9	-54	37.9	8.8	1	✓
60-54°	401	1	54.1	-54	8.1	9.2	1	✓
61-54°	404	1	54.7	-54	26.8	9.1	1	✓
62-54°	406	1	55.2	-54	20.2	9.0	1	✓
63-55°	369	1	57.6	-55	1.0	8.9	1	✓
64-54°	397	1	52.3	-54	46.3	8.8	1	✓
65-53°	380	1	55.7	-53	39.4	9.0	1	✓
66-53°	382	1	56.7	-53	13.0	9.0	1	✓
67-53°	383	1	57.3	-53	20.6	9.0	1	✓
68-53°	388	1	58.1	-53	33.9	8.8	1	✓
69-52°	254	1	56.5	-52	53.8	9.8	1	✓
70-52°	244	1	52.5	-52	29.0	9.5	1	✓
71-52°	239	1	50.9	-52	50.0	9.2	1	✓
72-52°	240	1	51.0	-52	45.3	8.8	1	✓
73-53°	372	1	50.4	-53	26.2	9.1	1	✓
74-53°	374	1	51.1	-53	27.2	9.4	1	✓
75-53°	376	1	52.4	-53	15.0	9.2	1	✓
76-52°	235	1	48.6	-52	33.9	9.5	1	✓
77-52°	236	1	48.8	-52	20.3	9.4	1	✓
78-51°	352	1	19.8	-51	46.1	8.9	1	✓
79-51°	355	1	20.2	-51	55.7	8.7	1	✓
80-52°	179	1	23.6	-52	59.3	9.8	1	✓
81-53°	328	1	23.0	-53	17.1	9.1	1	✓

cards run out

Tuesday April 1, 1912.

73 39 676 short disp.

No. Lat. Class Remark

82	2	As	
83	2	As	
84	2	As	
85	2	As	
86	3	As	
87	3	As	
88	2	As	
89	2	As	
90	2	As	
91	1	As	
92	4	As	
93	2	As	
94	2	As	
95	1	As	
96	4	As	
97	2	As	
98	2	As	
99	3	As	
100	2	As	
101	1	As	
102	1	As	
103	4	As	
104	2	As	
105	3	As	
106	2	As	
107	3	As	
108	2	As	

11.39
2.40

82-54°	393	1	23.8	-54	0.9	8.9	1✓
83-53°	331	1	24.5	-53	7.8	8.8	1✓
84-53°	334	1	24.6	-53	8.6	8.8	1✓
85-52°	184	1	25.0	-52	50.1	9.4	1✓
86-52°	188	1	27.8	-52	50.6	9.0	1✓
87-53°	340	1	27.8	-53	15.5	8.4	1✓
88-53°	337	1	26.8	-53	33.8	8.9	1✓
89-52°	193	1	30.3	-52	33.2	9.2	1✓
90-52°	201	1	32.4	-52	4.6	9.2	1✓
91-51°	402	1	33.8	-51	46.1	9.3	1✓
92-50°	424	1	29.7	-50	26.6	8.3	1✓
93-50°	469	1	38.0	-50	23.2	9.6	1✓
94-50°	466	1	37.9	-50	50.2	9.4	1✓
95-50°	474	1	39.2	-50	16.6	9.7	1✓
96-50°	482	1	41.8	-50	42.8	9.4	1✓
97-50°	499	1	43.2	-50	47.9	9.7	1✓
98-50°	493	1	42.3	-50	3.3	9.2	1✓
99-48°	471	1	42.3	-48	52.9	8.7	1✓
100-48°	474	1	42.8	-48	59.3	9.0	1✓
101-51°	408	1	36.7	-51	9.7	10	1✓
102-51°	409	1	36.8	-51	35.7	9.6	1✓
103-54°	361	1	34.8	-54	13.5	8.5	1✓
104-53°	348	1	43.6	-53	24.5	9.2	1✓
105-57°	371	1	48.5	-57	15.6	8.6	1✓
106-56°	354	1	49.7	-56	38.6	9.1	1✓
107-57°	380	1	52.8	-57	33.4	8.7	1✓
108-56°	375	2	0.6	-56	45.9	8.7	1✓

cards on a de out

Tuesday, April 1, 1913.

B39 676 short deep

No.	Int.	Class	Remark
109	1	45	
Time: 2.45	110	3	42
111			

March 8, 1916	111	4	75
	112	4	100

cont. 130, 60

109-55°	379	1	56.4	-55	50.8	9.1	1v
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110-56°	386	2	6.1	-56	28.6	8.6	1v
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Identified by Amc. April 2, 1913

Checked April 3, 1913, C.W.

cards made out by C.W.

✓ 111-52°	182	1	24.6	-52	26	8.8	55 on B, 2606
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✓ 112-52°	202	1	33.0	-52	28	8.8	60 ..
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Tuesday, April 1, 1913.

Time: 2.46

K20646 short disp. 1 12 -42

No. Lat. Class Remarks

1	3	To	
2	2	Lo	
3	1	Lo	
4	3	Lo	
5	2	Lo	
6	2	To	
7	2	To	
8	3	To	
9	2	Lo	
10	5	Lo	
11	3	To	
12	1	Lo	
13	2	Lo	
14	1	Lo	
15	2	To	
16	4	To	
17	5	To	
18	2	To	
19	1	To	
20	2	To	
21	4	Lo	
22	2	To	
23	2	To	
24	2	To	
25	3	To	
26	2	Ma	
27	2	Lo	

1 -48°	341	1	5.0 - 43	3.8	8.0	✓
2 -43°	346	1	5.6 - 43	20.8	9.4	✓
3 -43°	342	1	5.0 - 43	27.1	9.2	✓
4 -43°	339	1	4.9 - 43	37.1	8.1	✓
5 -44°	336	1	5.9 - 44	23.6	9.1	✓
6 -43°	353	1	7.3 - 43	19.6	9.4	✓
7 -42°	428	1	8.1 - 42	53.2	8.9	✓
8 -43°	357	1	8.2 - 43	2.1	7.7	✓
9 -43°	359	1	7.4 - 43	12.2	8.6	✓
10 -42°	433	1	8.8 - 42	33.2	8.4	✓
11 -42°	450	1	11.2 - 42	32.0	8.7	✓
12 -42°	453	1	12.3 - 42	14.8	9.5	✓
13 -41°	328	1	12.3 - 41	54.1	8.5	✓
14 -41°	327	1	12.1 - 41	56.1	8.7	✓
15 -43°	391	1	14.1 - 43	13.2	8.8	✓
16 -42°	470	1	16.0 - 42	47.8	9.2	✓
17 -43°	412	1	17.7 - 43	48.8	8.4	✓
18 -44°	394	1	18.5 - 44	7.8	9.1	✓
19 -44°	389	1	17.2 - 44	5.0	9.1	✓
20 -43°	389	1	13.6 - 43	57.0	9.0	✓
21 -44°	370	1	13.7 - 44	16.7	8.0	✓
22 -44°	364	1	12.1 - 44	36.9	9.1	✓
23 -44°	360	1	11.3 - 44	41.5	8.7	✓
24 -44°	328	1	4.5 - 44	44.7	9.2	✓
25 -43°	420	1	19.0 - 43	4.6	9.0	✓
26 -43°	421	1	19.3 - 43	24.8	8.5	✓
27 -43°	413	1	17.8 - 43	4.1	8.8	✓

cands in ads out

Tuesday, April 1, 1913.

B 202646 short a/c

No. Lat. Class Remarks

28	2	Fo	
29	2	Go	
30	5	Fo	
31	1	Fo	
32	3	Fo	
33	1	Fo	
34	1	Fo	
35	1	Go	
36	3	Go	
37	3	Fo	
38	2	Fo	
39	3	Fo	
40	2	Fo	
41	1	Go	
42	3 ⁴	Go	
43	2	Go	
44	4	Go	
45	3	Fo	
46	2	Fo	E.
47	2	Fo	
48	1	Fo	
49	4	Fo	
50	2	Fo	
51	4	Fo	
52	2	Fo	E
53	3	Fo	E
54	4	Fo	E

Time: 2.53

28-42°	485	1	18.1	-42	27.5	9.4	1
29-42°	494	1	19.3	-42	27.2	9.3	1
30-41°	376	1	21.7	-41	54.1	8.4	1
31-41°	373	1	21.5	-41	35.6	9.0	1
32-40°	317 256	1	16.5 3.8	-40	53.3 48.4	8.8 8.8	1
33-40°	314	1	15.2	-40	34.0	9.4	1
34-41°	349	1	16.6	-41	7.5	9.0	1
35-41°	346	1	16.3	-41	21.2	9.5	1
36-40°	332	1	19.2	-40	33.0	9.3	1
37-40°	333	1	19.3	-40	34.0	9.0	1
38-40°	334	1	19.5	-40	19.0	9.0	1
39-41°	379	1	22.0	-41	6.0	8.7	1
40-41°	387	1	23.4	-41	17.4	8.4	1
41-41°	389	1	23.6	-41	0.5	9.1	1
42-41°	395	1	24.3	-41	30.1	8.7	1
43-41°	403	1	24.9	-41	18.1	8.7	1
44-41°	413	1	26.4	-41	14.5	9.0	1
45-41°	415	1	27.3	-41	53.8	8.5	1
46-42°	544	1	28.6	-42	4.5	9.1	1
47-42°	522	1	23.8	-42	28.7	8.6	1
48-42°	520	1	23.8	-42	5.7	9.2	1
49-39°	408	1	20.6	-39	6.9	8.9	1
50-43°	460	1	24.6	-43	29.7	8.9	1
51-43°	456	1	24.0	-43	48.2	8.0	1
52-42°	554	1	20.1	-42	58.2	8.8	1
53-43°	496	1	31.7	-43	1.7	8.8	1
54-43°	488	1	30.5	-43	32.3	4.8	1

card made out

Tuesday April 1, 1913

B20646 short disp.

No.	Int.	Class	Remark
55	3	Ko	
56	2	Ko	
57	4	Ko	
58	5	g	e
59	3	Ko	
60	8	g	e
61	5	Ma	
62	7	To	
63	4	g	
64			

emb. in 102, 184

55-44°	432	1	27.9 - 44	47.4	8.7	1.1
56-44°	437	1	28.5 - 44	59.5	8.7	1.1
57-45°	516	1	28.7 - 45	2.3	8.3	1.1
58-41°	431	1	31.0 - 41	57.1	8.1	1.1
59-39°	446	1	26.7 - 39	44.6	8.5	1.1
60-38°	528	1	27.7 - 38	53.2	7.9	1.1
61-39°	439	1	26.7 - 39	4.0	7.5	1.1
62-41°	397	1	24.9 - 41	50.4	8.3	1.1
63-41°	390	1	23.8 - 41	30.1	7.9	1.1

Identified by Ames April 3, 1913

Checked April 5, 1913 J.W.

Cards made out by M.C.W.

Friday, April 11, 1913.

Time: 10.12

738902 Long/resp. 6 38 -19.7

No	Int.	Class	Remarks
1	3	A2	
2	4	A0	
3	2	B9	
4	6	A0	
5	8	A0	
6	2	A2	
7	9	F0	
8	6	F5	
9	2	A3	
10	10	F0	
11	4	A0	
12	3	F2	
13	5	A2	
14	4	F5	
15	5	B5	
16	7	A5	
17	2	A0	
18	5	B5	
19	7	A2	
20	8	B5	
21	10	A0	
22	10	B0	
23	3	F0	
24	2	A2	
25	2	A	
26	2	A	
27	4	A3	

1	-17°	152.8	6	26.4	-17	36.5	78	1
2	-15°	144.8	6	29.3	-15	59.3	80	✓
3	-16°	154.2	6	30.5	-16	14.1	7.7	1
4	-16°	155.6	6	22.3	-16	8.1	7.3	✓
5	-16°	155.4	6	22.1	-16	45.0	6.3	✓
6	-17°	156.4	6	31.5	-17	5.8	8.3	✓
7	-17°	149.2	6	31.5	-18	6.7	4.9	✓
8	-18°	148.0	6	30.0	-18	32.6	6.5	✓
9	-18°	146.8	6	28.2	-18	41.8	8.2	✓
10	-19°	150.2	6	30.4	-19	7.6	4.2	✓
11	-19°	150.1	6	20.0	-19	22.2	7.3	✓
12	-20°	143.8	6	27.3	-20	2.1	8.1	✓
13	-20°	144.6	6	28.5	-20	26.7	7.0	✓
14	-20°	143.7	6	27.2	-20	48.9	6.6	✓
15	-20°	143.2	6	26.4	-20	54.8	7.2	✓
16	-21°	149.1	6	25.3	-21	18.2	6.8	✓
17	-21°	149.2	6	25.3	-21	56.3	8.5	✓
18	-22°	143.4	6	24.5	-22	13.3	7.5	✓
19	-22°	142.9	6	23.3	-22	30.0	7.0	✓
20	-22°	147.2	6	30.6	-22	29.5	7.0	✓
21	-22°	145.8	6	29.0	-22	57.4	5.0	✓
22	-23°	399.1	6	26.7	-23	19.9	4.5	✓
23	-21°	151.4	6	29.4	-21	59.4	6.9	✓
24	-21°	150.2	6	27.9	-21	25.8	7.9	✓
25	-19°	150.6	6	31.2	-19	40.2	7.5	✓
26	-21°	153.8	6	33.3	-21	39.5	8.4	✓
27	-21°	154.7	6	34.2	-21	15.7	7.5	✓

Cards made out

Friday, April 11, 1913.

B 8902 long disp.

No. Lat. Class Remark

28	3	Fo	
29	4	Fo	
30	3	A2	
21	6	A2	
32	5	A2	
33	2	Fo	
34	5	B9	
35	31	A2	
36	8	A2	
37	5	Fo	
38	2	B9	
39	5	A3	
40	10	Fo	
41	8	Fo	Partly superseded on 40.
42	2	A2	
43	2	B2	
44	3	B2	
45	2	B9	
46	10	B2	
47	4	B5	
48	3	B9	
49	9	B5	
50	10	B2	
51	7	A2	
52	8	Fo	
53	1	F2	
54	3	B5	

28	-20°	1495	6	35.2	-20	10.6	6.8	✓
29	-20°	1498	6	35.7	-20	6.4	7.3	✓
30	-19°	1542	6	38.2	-19	31.0	7.7	✓
31	-18°	1534	6	38.4	-18	57.0	7.3	✓
32	-18°	1537	6	38.5	-18	25.3	7.1	✓
33	-18°	1538	6	38.8	-18	7.2	7.2	✓
34	-17°	1626	6	41.2	-17	21.0	7.0	✓
35	-17°	1631	6	41.7	-17	4.2	7.8	✓
36	-17°	1645	6	43.8	-17	7.3	7.3	✓
37	-16°	1624	6	43.9	-16	54.8	6.0	✓
38	-18°	1563	6	42.9	-18	17.8	8.6	✓
39	-18°	1578	6	44.8	-18	50.5	7.5	✓
40	-18°	1591	6	47.0	-18	57.3	6.0	✓
41	-18°	1594	6	47.1	-18	85.0	6.8	✓
42	-18°	1595	6	47.1	-18	16.3	8.2	✓
43	-17°	1668	6	47.2	-17	42.6	8.2	✓
44	-17°	1673	6	48.2	-17	44.1	8.0	✓
45	-17°	1679	6	48.8	-17	1.7	8.3	✓
46	-16°	1661	6	49.7	-16	57.9	6.0	✓
47	-16°	1638	6	46.3	-16	2.2	7.3	✓
48	-14°	1601	6	43.1	-14	53.0	8.0	✓
49	-14°	1599	6	42.4	-14	59.2	5.5	✓
50	-20°	1616	6	47.3	-20	2.7	5.4	✓
51	-20°	1624	6	48.8	-20	13.6	6.8	✓
52	-19°	1618	6	49.3	-19	57.2	5.1	✓
53	-19°	1622	6	50.7	-19	15.1	7.0	✓
54	-20°	1604	6	50.7	-20	54.7	8.2	✓

cards made out

Friday, April 11, 1913.

738902 long disto.

No. Int. Class Remark

55	6	B5	
56	6	B8	
57	7	B3	
58	5	B5	
59	4	A3	
60	6	B8	
61	4	A0	
62	4	B8	
63	5	B3	
64	4	B8	
65	2	A0	
66	8	B8	
67	4	B8	
68	7	F0	
69	4	B5	
70	7	A0	
71	4	Comp. Ba. = G. H. = A3.	
72			
73			

Time: 10.27

72	6	B9	
73	2	A0	

55	-21°	16.55	6	49.4	-21	51.1	7.2	✓
56	-22°	16.16	6	51.1	-22	1.0	7.1	✓
57	-22°	16.02	6	49.7	-22	45.4	6.0	✓
58	-21°	16.95	6	54.2	-21	55.1	6.7	✓
59	-20°	16.70	6	54.3	-20	26.4	7.5	✓
60	-19°	16.44	6	53.8	-19	57.7	6.7	✓
61	-19°	16.49	6	54.5	-19	14.6	7.2	✓
62	-21°	16.30	6	46.5	-21	0.6	7.8	✓
63	-20°	16.03	6	44.6	-20	44.7	7.5	✓
64	-20°	16.02	6	44.5	-20	40.3	7.6	✓
65	-21°	16.09	6	43.4	-21	1.0	8.4	✓
66	-20°	15.76	6	42.8	-20	57.7	6.0	✓
67	-21°	15.65	6	37.1	-21	53.4	7.4	✓
68	-22°	15.05	6	36.7	-22	12.7	6.8	✓
69	-23°	4.39	6	37.2	-23	6.9	7.5	✓
70	-23°	4.72	6	34.4	-23	34.9	6.6	✓
71	-23°	4.44	6	33.2	-23	28.0	6.9	✓

Identified by Mr. C. W. Aug. 15, 1913.

Checked by Ann. Aug. 22, 1913

cards made out by Mr. C. W.

Cards checked by G. R. B.

72	-15°	14.78	6	35.5	-15	52	7.5	194 on B18975
73	-14°	15.60	6	37.4	-14	33	8.7	196 " "

Friday April 11, 1913.

Time: 10.36

B3939 long disp.

b 54 - 15

No.	Int.	Class	Remarks
1	8	A2	
2	4	A2	
3	8	B ₉	
4	2	A ₀	
5	4	B ₈	
6	3	A	
7	4	B ₅	
8	2	A ₀	
9	4	A2	
10	5	A2	
11	8	F ₅	
12	4	B ₈	
13	2	F ₅	
14	3	A ₀	
15	3	A2	
16	3	F ₈	
17	7	Comp. B ₃ = G ₅ , F ₄ = A2. H = 0.1 H.	
18	2	B ₈	
19	4	B ₉	
20	3	A ₀	
21	2	F ₅	
22	1	F ₂	
23	4	B ₉	
24	2	B ₈	Lines misidentified
25	3	B E ₁	
26	7	B ₈ E ₁	
27	4	F ₈	

1	-14°	1573	6	39.4	-14	38.4	6.2 ✓
2	-14°	1579	6	39.9	-14	22.5	7.8 ✓
3	-14°	1574	6	40.2	-14	16.2	6.2 ✓
4	-13°	1657	6	41.3	-13	33.4	7.8 ✓
5	-12°	1634	6	41.8	-12	41.1	6.8 ✓
6	-12°	1642	6	42.5	-12	30.5	7.7 ✓
7	-12°	1652	6	43.4	-12	25.7	7.6 ✓
8	-12°	1651	6	43.3	-12	48.1	8.3 ✓
9	-13°	1694	6	45.5	-13	27	8.2 ✓
10	-11°	1673	6	46.2	-11	58.6	7.5 ✓
11	-11°	1681	6	47.5	-11	56.1	4.0 ✓
12	-13°	1709	6	47.1	-13	1.2	7.8 ✓
13	-13°	1718	6	47.5	-13	27.3	8.2 ✓
14	-13°	1719	6	47.9	-13	34.4	8.2 ✓
15	-14°	1635	6	47.8	-14	16.4	8.0 ✓
16	-14°	1637	6	48.3	-14	81.1	7.5 ✓
17	-13°	1741	6	49.5	-13	57.6	5.0 ✓
18	-12°	1729	6	52.9	-12	48.0	8.0 ✓
19	-12°	1750	6	56.0	-12	57.3	8.6 ✓
20	-12°	1752	6	56.1	-12	57.9	8.0 ✓
21	-13°	1791	6	56.2	-13	1.0	8.6 ✓
22	-12°	1761	6	57.2	-12	52.8	7.3 ✓
23	-12°	1763	6	57.3	-12	4.5	8.2 ✓
24	-11°	1770	6	57.9	-11	18.6	7.9 ✓
25	-10°	1848	6	57.6	-10	14.4	7.3 ✓
26	-9°	1818	6	57.1	-9	54.4	6.3 ✓
27	-10°	1818	6	56.0	-10	41.1	7.0 ✓

cards made out

Friday, April 11, 1913.

B 8909 long air.

No.	Int.	Class	Remarks
28	5	B3	Lines indistinct
29	2	A2	
30	2	A6	
31	3	B	H/3 bright. Confirm if possible.
32	2	A2	
33	2	A0	
34	3	A2	
35	3	A0	
36	3	A2	
37	10+	B8	Run out
38	3	A0	
39	5	A2	
40	5	B9	
41	3	B9	
42	3	A0	
43	6	A2	
44	6	B5	
45	8	B3	
46	6	F0	
47	6	B9	
48	2	B9	
49	2	B9	
50	2	A0	
51	2	A3	
52	3	A2	
53	5	B9	
54	6	A5	

28	-11°	1747	6	55.0	-11	5.7	7.2	✓
29	-11°	1714	6	51.7	-11	14.2	8.5	✓
30	-10°	1786	6	51.1	-10	35.4	7.3	✓
31	-10°	1774	6	50.3	-10	38.4	7.2	✓
32	-13°	1764	6	52.8	-13	30.4	8.3	✓
33	-14°	1669	6	52.4	-14	45.8	8.3	✓
34	-14°	1669	6	52.4	-14	44.9	8.2	✓
35	-15°	159.7	6	53.1	-15	34.0	8.0	✓
36	-15°	157.7	6	54.1	-15	41.9	7.2	✓
37	-15°	1625	6	57.2	-15	25.4	4.3	✓
38	-16°	1723	6	56.3	-16	39.5	7.2	✓
39	-17°	1733	6	55.5	-17	26.2	7.7	✓
40	-17°	1743	6	56.2	-17	22.1	7.8	✓
41	-18°	1650	6	56.6	-18	7.5	8.3	✓
42	-18°	1657	6	1.3	-15	28.6	7.5	✓
43	-15°	1671	7	3.0	-15	0.6	7.2	✓
44	-15°	1681	7	3.6	-15	27.1	7.7	✓
45	-16°	1802	7	3.0	-16	0.2	6.0	✓
46	-15°	1676	7	3.3	-15	59.9	7.0	✓
47	-17°	1828	7	5.0	-17	5.7	7.0	✓
48	-15°	1533	6	48.9	-15	52.0	8.1	✓
49	-17°	1654	6	48.5	-17	4.3	8.3	✓
50	-17°	1651	6	45.0	-17	52.4	8.7	✓
51	-16°	1644	6	47.1	-16	41.0	8.5	✓
52	-15°	1573	6	50.6	-15	33.4	8.3	✓
53	-15°	1581	6	51.9	-15	51.6	7.5	✓
54	-16°	1627	6	51.1	-16	42.0	8.2	✓

Cards made out

Friday, April 11, 1913.

B 8909 long disp.

No.	Int.	Class	Remark
55	4	B ₉	
56	2	B ₅	
57	3	B ₉	
58	4	B ₅	
59	2	B ₉	
60	7	B ₅	
61	8	B ₃	
62	5	B ₅ E. focus pos.	
63	3	A ₅	
64	5	B ₃ E. focus pos.	
65	1	B ₅ 9, 6, 10.	
66	3	B ₈	
67	4	B ₉	
68	4	A ₅	
69	3	B ₅	
70	3	A ₅	
71	3	B ₈ focus pos.	

Series 10.51

72	3	B ₈
73	9	B ₅
74	9	A ₃

55	-17°	1699	6	50.7	-17	22.4	8.1	✓
56	-17°	1705	6	51.7	-17	35.0	8.0	✓
57	-17°	1709	6	52.4	-17	26.0	8.2	✓
58	-12°	1777	6	59.0	-12	25.5	7.5	✓
59	-12°	1771	6	58.5	-12	6.8	8.5	✓
60	-12°	1788	6	59.9	-12	10.6	6.9	✓
61	-11°	1790	6	59.9	-11	4.0	5.8	✓
62	-10°	1862	7	59.0	-10	26.7	7.0	✓
63	-9°	1854	7	6.5	-9	45.9	7.5	✓
64	-10°	1892	7	2.5	-10	6.8	6.8	✓
65	-11°	1805	7	1.3	-11	41.8	7.6	✓
66	-11°	1812	7	1.6	-11	37.8	8.5	✓
67	-12°	1809	7	1.8	-12	39.4	7.5	✓
68	-12°	1832	7	4.8	-12	50.0	7.8	✓
69	-11°	1830	7	4.5	-11	48.3	7.5	✓
70	-11°	1826	7	4.0	-11	20.6	8.2	✓
71	-11°	1822	7	3.4	-11	34.7	8.0	✓

Identified by M. C. W. July 28, 1913.
 Checked by Amc. August 1, 1913
 cards made out by M. C. W.

72	-18°	1705	7	3.2	-18	53	7.5	✓
73	-18	1781					6.0	no in B 8902
74	-18	1884					6.8	no in B 8902

Friday, April 11, 1913

Time: 10.56

1339936 short days 6 48 -23.2

No.	Int.	Class	Remarks
1	3	As	
2	3	As	
3	3	As	
4	4	As	
5	1	As	
6	1	As	
7	4	As	
8	3	As	
9	2	As	
10	4	As	nearly all superposed on 11.
11	5	As	
12	3	As	
13	3	As	
14	6	As	
15	3	As	
16	3	As	
17	4	As	
18	5	As	
19	4	As	
20	4	As	
21	6	As	
22	2	As	Partly superposed on 23.
23	3	As	
24	4	As	Partly superposed on 23.
25	4	As	Another after partly superposed.
26	3	As	
27	2	As	

1	-20°	1585.6	42.4	-20	53.5	9.3 J
2	-20°	1577.6	40.9	-20	56.9	8.1 J
3	-20°	1581.6	41.3	-20	37.9	9.4 J
4	-20°	1575.6	40.8	-20	31.1	8.4 J
5	-20°	1572.6	40.6	-20	38.7	9.8 J
6	-20°	1573.6	40.7	-20	29.9	9.8 J
7	-20°	1568.6	40.3	-20	39.6	8.2 J
8	-20°	1570.6	40.3	-20	33.5	9.3 J
9	-20°	1564.6	40.2	-20	40.8	9.4 J
10	-20°	1562.6	40.0	-20	39.4	8.8 J
11	-20°	1563.6	40.0	-20	36.5	9.0 J
12	-20°	1565.6	40.2	-20	31.7	9.4 J
13	-20°	1551.6	39.5	-20	54.8	8.4 J
14	-20°	1560.6	39.9	-20	36.1	8.1 J
15	-20°	1557.6	39.8	-20	27.1	8.3 J
16	-20°	1556.6	39.8	-20	34.3	9.5 J
17	-20°	1555.6	39.7	-20	37.7	7.6 J
18	-20°	1552.6	39.6	-20	42.7	8.9 J
19	-20°	1549.6	39.5	-20	42.2	7.8 J
20	-20°	1534.6	39.2	-20	49.2	8.9 J
21	-20°	1535.6	39.2	-20	41.3	8.6 J
22	-20°	1545.6	39.4	-20	40.3	9.0 J
23	-20°	1548.6	39.5	-20	32.4	9.0 J
24	-20°	1543.6	39.4	-20	32.5	8.8 J
25	-20°	1540.6	39.4	-20	32.1	8.2 J
26	-20°	1544.6	39.4	-20	22.1	9.2 J
27	-20°	1532.6	39.1	-20	22.4	9.5 J

Cards made out

Friday, April 11, 1913.

B39936 short disp.

No. Int. Class Remark

28	3	A ₂	
29	3	A ₀	
30	2	F ₅	
31	4	A ₂	
33	6	A ₀	
35	3	A ₂	
34	7	F ₀	
35	3	A ₀	
36	1	F ₅	
37	3	M ₂	
38	3	F ₀	
39	2	F ₀	
40	2	M ₂	
41	1	A	
42	1	F	
43	2	F ₅	
44	2	F ₀	
45	2	A ₀	
46	3	A	(Nearly all superposed on a brighter star.)
47	3	F ₀	

Time 11.17

28	-20°	1526	6	38.9	-20	19.9	9.1	5
29	-20°	1533	6	39.2	-20	16.8	9.1	4
30	-19°	1522	6	38.5	-20	18.4	8.6	4
31	-19°	1520	6	38.4	-19	15.8	8.9	1
32	-19°	1542	6	38.2	-19	31.0	7.7	1
33	-19°	1550	x6	39.9	-19	38.7	9.0	4
34	-19°	1551	x6	40.1	-19	43.0	6.5	3
35	-20°	1538	6	39.3	-20	4.4	8.8	4
36	-19°	1554	x6	40.3	-19	57.5	9.2	3
37	-20°	1578	6	41.0	-20	10.4	9.1	5
38	-20°	1579	6	41.1	-20	8.8	8.8	4
39	-20°	1582	6	41.5	-20	11.3	9.1	4
40	-20°	1589	6	42.6	-20	16.1	9.0	5
41	-20°	1588	6	42.6	-20	14.8	9.3	5
42	-20°	1590	6	42.8	-20	30.4	9.1	4
43	-20°	1599	6	44.3	-20	11.7	9.0	5
44	-19°	1580	x6	43.9	-19	51.1	9.1	4
45	-20°	1617	6	47.3	-20	19.6	9.2	5
46	-20°	1601	6	44.5	-20	46.1	9.0	5
47	-22°	1583	6	47.9	-22	25.2	9.0	1

Identified by J. C. M. April 26, 1913.

Checked by AMC. May 2, 1913

Cards made out by Th. C. W.

Cards checked by AMC.

Friday, April 11, 1913.

Time: 6.18

B18 975 short exp. 6 47 -17.2

No	Lat	Class	Remarks
1	5	Fo	
2	1	Fo	
3	1	Fo	
4	3	Go	
5	2	Fo	The following of two.
6	2	Go	
7	3	Go	
8	2	Fo	
9	3	Go	
10	3	Go	
11	1	Fo	
12	1	Fo	
13	3	Go	
14	5	Go	
15	4	Fo	
16	4	Go	
17	3	Fo	
18	1	Fo	
19	1	Fo	
20	6	Go	
21	1	Fo	
22	5	Go	
23	3	Go	
24	2	Fo	
25	1	Fo	
26	2	Fo	
27	3	Fo	Partly superposed on 28.

1	-17°	1578	6	33.6	-17	9.5	7.8	✓
2	-17°	1584	6	35.2	-17	23.7	8.5	✓
3	-17°	1582	6	34.5	-17	38.8	8.4	✓
4	-17°	1583	6	34.8	-17	50.0	8.8	✓
5	-17°	1587	6	35.4	-17	49.7	8.9	✓
6	-17°	1588	6	35.6	-17	38.4	8.8	✓
7	-17°	1592	6	36.1	-17	39.7	8.8	✓
8	-17°	1595	6	36.7	-17	31.3	8.8	✓
9	-18°	1522	6	36.9	-18	4.4	8.8	✓
10	-18°	1517	6	36.0	-18	9.3	8.5	✓
11	-18°	1513	6	35.5	-18	8.4	8.5	✓
12	-18°	1511	6	35.1	-18	9.6	9.3	✓
13	-19°	1518	6	33.7	-19	2.1	8.5	✓
14	-18°	1504	6	33.9	-18	58.1	8.0	✓
15	-18°	1518	6	36.0	-18	59.7	8.8	✓
16	-19°	1533	6	36.5	-19	12.8	8.7	✓
17	-19°	1536	6	36.9	-19	0.6	8.5	✓
18	-19°	1535	6	36.8	-19	19.7	8.7	✓
19	-19°	1532	6	36.6	-19	29.7 37.8	9.0	✓
20	-18°	1528	6	37.8	-18	15.5	8.6	✓
21	-18°	1521	6	36.7	-18	35.4	9.3	✓
22	-17°	1603	6	37.9	-17	41.8	8.2	✓
23	-17°	1604	6	38.3	-17	58.2	8.8	✓
24	-18°	1536	6	38.4	-18	5.1	9.0	✓
25	-18°	1541	6	39.6	-18	22.6	8.9	✓
26	-18°	1542	6	39.8	-18	21.6	8.7	✓
27	-18°	1546	6	40.1	-18	28.2	8.8	✓

cards made out

Friday, April 11, 1913.

B18975 short dips.

No.	Lat.	Class	Remarks
28	3	A0	
29	3	A5	
30	3	F0	
31	4	A0	
32	1	A2	
33	1	F5	
34	2	F0	
35	3	A0	
36	4	F0	
37	1	F	Partly superposed on 36.
38	4	A2	
39	7	A0	
40	5	F5	
41	2	A2	
42	2	A3	
43	1	F5	
44	4	F5	
45	3	F5	
46	2	A2	
47	1	F8	
48	3	A2	
49	1	F0	
11.25	50	A0	
11.42	51	A3	
52	1	F0	
53	1	F2	
54	6	A0	

28	-18°	1545	6	40.1	-18	30.0	9.1	1 ✓
29	-18°	1547	6	40.2	-18	35.4	9.0	1 ✓
30	-18°	1550	6	40.6	-18	38.5	8.7	1 ✓
31	-19°	1549	6	39.8	-19	14.9	8.5	1 ✓
32	-19°	1552	6	40.2	-19	2.5	9.2	1 ✓
33	-18°	1549	6	40.3	-18	56.6	9.2	1 ✓
34	-19°	1557	6	40.8	-19	29.1	8.8	1 ✓
35	-19°	1561	6	41.3	-19	21.3	8.3	1 ✓
36	-18°	1554	6	41.7	-18	28.5	8.4	1 ✓
37	-18°	1556	6	41.8	-18	58.4	8.7	1 ✓
38	-19°	1570	6	42.3	-19	58.5	9.1	1 ✓
39	-19°	1566	6	42.0	-19	24.0	9.1	1 ✓
40	-19°	1575	6	42.4	-19	51.4	8.6	1 ✓
41	-19°	1576	6	42.5	-19	13.3	7.8	1 ✓
42	-18°	1567	6	42.6	-18	5.9	9.1	1 ✓
43	-19°	1579	6	42.9	-19	56.5	9.2	1 ✓
44	-19°	1585	6	42.7	-19	24.8	9.0	1 ✓
45	-19°	1589	6	42.6	-19	75.0	8.3	1 ✓
46	-18°	1589	6	42.3	-18	5.5	8.5	1 ✓
47	-18°	1555	6	41.8	-18	30.6	9.4	1 ✓
48	-18°	1553	6	41.1	-18	35.7	9.4	1 ✓
49	-17°	1624	6	40.7	-17	3.8	9.2	1 ✓
50	-18°	1548	6	40.2	-18	56.1	9.0	1 ✓
51	-17°	1617	6	40.2	-17	5.7	8.7	1 ✓
52	-17°	1620	6	40.3	-17	55.8	9.5	1 ✓
53	-17°	1629	6	40.3	-17	35.5	9.0	1 ✓
54	-17°	1605	6	38.4	-17	31.7	8.7	1 ✓
						17.4	8.6	1 ✓

V-19 95° 10' 15" 9.6 superposed

Cards made out

Friday, April 11, 1913.
 13 18975 about circump.

Ins	Int.	Class	Remarks
55	3	Q2	
56	9	B9	
57	20	F0	
58	21	Q0	
59	1	F5	
60	4	Q2	
61	1	F5	
62	2	Q5	
63	1	F0	
64	4	F5	
65	2	F5	
66	4	F2	
67	3	F5	
68	3	F1/2	
69	7	Q0	
70	6	F5	
71	4	B9	
72	7	B9	
73	1	F0	Partly superposed on 75.
74	15	Q3	
75	2	Q2	
76	3	Q2	
77	2	Q2	
78	3	F0	
79	3	F0	
80	7	Q2	
81	5	B9	

55	-16°	1590	6	32.6	-16	53.1	8.7	✓
56	-17°	1611	6	39.2	-17	1.3	7.5	✓
57	-16°	1595	6	40.0	-16	53.0	8.5	✓
58	-17°	1627	6	41.2	-17	0.7	9.3	✓
58	-17°	1628	6	41.3	-17	1.8	7.8	✓
59	-17°	1634	6	42.4	-17	6.3	8.9	✓
60	-17°	1641	6	43.4	-17	24.5	8.8	✓
61	-17°	1639	6	43.1	-17	33.9	8.8	✓
62	-17°	1636	6	42.9	-17	52.8	9.3	✓
63	-18°	1562	6	42.9	-18	9.4	9.4	✓
64	-18°	1564	6	43.0	-18	15.1	9.0	✓
65	-18°	1570	6	43.8	-18	27.3	9.2	✓
66	-18°	1571	6	44.0	-18	27.2	8.9	✓
67	-18°	1574	6	44.4	-18	15.1	9.2	✓
68	-18°	1577	6	44.7	-18	16.2	8.7	✓
69	-17°	1651	6	45.0	-17	52.4	8.7	✓
70	-17°	1650	6	44.6	-17	41.1	8.0	✓
71	-17°	1649	6	44.4	-17	8.1	8.7	✓
72	-17°	1654	6	45.5	-17	4.3	8.3	✓
73	-17°	1656	6	45.6	-17	7.6	9.2	✓
74	-17°	1663	6	46.6	-17	26.9	8.9	✓
75	-17°	1658	6	46.0	-17	32.6	9.3	✓
76	-17°	1660	6	46.2	-17	41.0	9.1	✓
77	-18°	1585	6	46.2	-18	1.4	9.5	✓
78	-18°	1587	6	46.3	-18	28.2	9.2	✓
79	-18°	1593	6	47.0	-18	35.1	9.1	✓
80	-18°	1595	6	47.1	-18	16.3	8.2	✓
81	-18°	1596	6	47.6	-18	22.6	8.7	✓

Cards made out

Friday, April 11, 1913.

B 18975 short ans.

No.	Lat.	Class	Remarks
82	3	Pec.	lines indistinct. Appears to be B & short ans. = Q2.
83	3	Q2	
84	6	Q0	
85	1	Q2	
86	1	Q5	
87	2	Q0	
88	1	Q5	
89	1	Q1	
90	1	Q5	
91	2	Q0	
92	3	Q2	lines broad
93	4	B2	
94	1	Q0	
95	5	Q0	
96	7	B9	
97	3	Q5	
98	2	Q5	
99	4	Q0	
100	9	Q0	
101	9	Q0	
102	4	Q2	Faintly superimposed on 100.
103	2	Q0	
104	1	Q3	
105	2	Q0	
106	2	Q2	
107	1	Q5	
108	2	Q0	The n. p. of two.

11.51
April 12, 1913
10:30

82	-18°	1598	6	47.8	-18	6.7	9.0	AV
83	-18°	1600	6	48.1	-18	13.4	9.1	AV
84	-18°	1606	6	49.4	-18	16.5	8.4	AV
85	-18°	1610	6	50.1	-18	28.5	9.0	AV
86	-18°	1611	6	50.3	-18	25.8	9.1	AV
87	-18°	1612	6	50.6	-18	24.3	9.1	AV
88	-18°	1608	6	49.8	-18	58.0	9.0	AV
89	-19°	1605	6	48.4	-19	5.3	9.0	AV
90	-19°	1601	6	48.1	-19	17.2	9.0	AV
91	-18°	1613	6	50.8	-18	3.2	9.0	AV
92	-18°	1614	6	51.0	-18	9.5	9.1	AV
93	-18°	1613	6	52.1	-18	0.1	9.1	AV
94	-17°	1706	6	51.8	-17	52.5	9.0	AV
95	-17°	1705	6	51.8	-17	35.0	8.0	AV
96	-17°	1709	6	52.4	-17	26.0	8.2	AV
97	-17°	1714	6	52.8	-17	28.5	8.7	AV
98	-18°	1633	6	54.3	-18	6.0	8.6	AV
99	-17°	1731	6	55.2	-17	55.7	9.1	AV
100	-17°	1733	6	55.5	-17	26.2	7.7	AV
101	-17°	1743	6	56.2	-17	22.1	7.8	AV
102	-17°	1737	6	55.6	-17	29.6	8.8	AV
103	-17°	1742	6	56.3	-17	34.4	9.0	AV
104	-18°	1644	6	55.6	-18	8.0	9.0	AV
105	-18°	1635	6	54.8	-18	13.1	9.4	AV
106	-18°	1622	6	52.5	-18	12.1	9.4	AV
107	-18°	1626	6	53.1	-18	40.2	9.0	AV
108	-18°	1642	6	55.4	-18	34.5	9.1	AV

cards una de out

Saturday, April 12, 1913.

1318975 short cup

No.	Int.	Class	Remark
109	1	Fo	
110	2	Fo	
111	2	As	
112	7	Bg	
113	2	As	
114	4	Fo	
115	4	Fo	
116	7	Fo	
117	3	As	
118	2	As	The preceding of two.
119	3	As	
120	2	Fo	
121	2	As	
122	8	As	
123	2	As	Partly superposed on 124.
124	4	As	
125	5	Fo	
126	6	Bg	
127	3	As	
128	3	Fo	
129	2	As	
130	3	Bg	
131	1	As	
132	3	Fo	
133	3	Bg	
134	7	As	
135	2	Fo	

109	-18°	1645	6	55.6	-18	25.0	9.1	Λ ✓
110	-18°	1653	6	57.0	-18	38.2	9.1	Λ ✓
111	-18°	1648	6	56.3	-18	7.5	9.1	Λ ✓
112	-18°	1650	6	56.6	-18	7.5	8.3	Λ ✓
113	-17°	1748	6	56.6	-17	23.9	9.2	Λ ✓
114	-16°	1720	6	56.2	-16	46.5	8.8	Λ ✓
115	-16°	1716	6	55.6	-16	35.1	8.3	Λ ✓
116	-16°	1723	6	56.3	-16	29.5	7.2	Λ ✓
117	-16°	1714	6	55.3	-16	52.4	9.0	Λ ✓
118	-17°	1735	6	55.5	-17	9.2	8.8	Λ 17° 1726 9.1 superposed
119	-16°	16920	6	53.0	-16	52.9	9.0	Λ ✓
120	-16°	1686	6	52.1	-16	57.1	8.6	Λ ✓
121	-17°	1707	6	51.9	-17	4.8	9.3	Λ ✓
122	-17°	1699	6	50.7	-17	22.4	8.1	Λ ✓
123	-16°	1675	6	51.0	-16	50.0	9.1	Λ ✓
124	-16°	1674	6	51.0	-16	54.7	8.8	Λ ✓
125	-16°	1671	6	50.6	-16	54.6	7.5	Λ ✓
126	-16°	1669	6	50.4	-16	52.3	8.9	Λ ✓
127	-17°	1693	6	50.0	-17	22.8	9.1	Λ ✓
128	-17°	1689	6	49.8	-17	0.7	8.7	Λ ✓
129	-17°	1682	6	49.0	-17	26.3	9.4	Λ ✓
130	-17°	1676	6	48.5	-17	38.4	9.3	Λ ✓
131	-17°	1680	6	49.0	-17	51.5	9.5	Λ ✓
132	-16°	1649	6	48.1	-16	34.8	8.3	Λ ✓
133	-16°	1653	6	48.6	-16	18.0	9.0	Λ ✓
134	-16°	1655	6	48.9	-16	28.2	8.5	Λ ✓
135	-16°	1658	6	49.2	-16	21.2	8.8	Λ ✓

cards made out

Saturday, April 12, 1913.
B18975 short disp.

No.	Int.	Class	Remarks
136	2	A ₀	
137	2	F ₀	
138	4	F ₅	
139	6	F ₅	
140	1	B ₉	
141	3	A	Superfused on 140.
142	3	F ₀	Another star superfused at south.
143	1	F ₂	
144	6	A ₃	
145	3	B ₃	If line strong for this class.
146	3	A ₀	
147	6	F _{1.5}	
148	4	F ₁	
149	3	A ₂	
150	3	F ₀	
151	3	A ₂	
152	4	A ₃	
153	3	A ₀	
154	4	F _{1.5}	
155	4	F ₀	
156	3	A ₀	
157	2	A ₃	
158	2	A ₀	
159	1	F	
160	7	A ₀	
161	1	F	
162	1	F ₂	

136 - 16°	1659 6	49.4 - 16	33.4	9.2	✓
137 - 16°	1666 6	50.1 - 16	18.8	8.5	✓
138 - 16°	1672 6	50.6 - 16	17.5	9.0	✓
139 - 16°	1673 6	50.9 - 16	11.9	8.2	✓
140 - 16°	1678 6	51.1 - 16	17.8	8.5	✓
141 - 16°	1676 6	51.1 - 16	19.9	9.0	✓
142 - 16°	1685 6	52.1 - 16	7.4	8.5	✓
143 - 16°	1698 6	53.5 - 16	28.4	9.1	✓
144 - 16°	1701 6	53.6 - 16	7.4	8.2	✓
145 - 16°	1694 6	53.3 - 16	0.2	8.9	✓
146 - 16°	1705 6	54.5 - 16	14.8	8.8	✓
147 - 15°	1617 6	56.6 - 15	48.0	8.0	✓
148 - 15°	1618 6	56.6 - 15	58.5	8.8	✓
149 - 15°	1615 6	56.5 - 15	30.6	9.2	✓
150 - 15°	1608 6	55.3 - 15	11.4	8.2	✓
151 - 15°	1606 6	54.7 - 15	28.6	9.3	✓
152 - 14°	1688 6	55.4 - 14	57.8	8.7	✓
153 - 14°	1689 6	55.0 - 14	50.7	8.9	✓
154 - 15°	1599 6	54.1 - 15	11.9	7.2	✓
155 - 15°	1594 6	53.3 - 15	2.8	8.9	✓
156 - 15°	1589 6	52.7 - 15	4.6	9.3	✓
157 - 15°	1583 6	52.2 - 15	5.2	9.1	✓
158 - 15°	1591 6	53.1 - 15	19.1	9.1	✓
159 - 15°	1579 6	51.5 - 15	34.3	9.4	✓
160 - 15°	1573 6	50.6 - 15	33.4	8.3	✓
161 - 15°	1565 6	49.4 - 15	59.1	9.0	✓
162 - 15°	1564 6	49.4 - 15	34.0	9.0	✓

cards made out

Saturday, April 12, 1913

E 18975 about circs

No.	Int.	Class	Remarks
163	5	F ₂	
164	4	F ₅	
165	1	A	
166	2	A ₀	
167	4	A ₀	
168	3	A ₀	
169	2	A ₀	
170	4	F ₀	
171	3	A ₃	
172	1	F ₅	
173	2	A ₂	The following of two
174	3	A ₂	
175	2	A ₀	
176	1	A	Nearly all superposed on 175
177	3	F ₀	
178	1	F ₀	Partly superposed on 177
179	3	F ₈	
180	3	F ₅	
181	5	F ₀	
182	2	F ₅	
183	2	F ₉	
184	3	A ₃	
185	2	A ₃	
186	3	F ₉	
187	6	F ₈	
188	8	F ₅	
189	5	F ₉	

163 - 15°	1560 b	48.7 - 15	31.4	7.7	1 v
164 - 18°	1557 b	49.6 - 15	15.1	8.9	1 v
165 - 15°	1568 b	49.9 - 15	0.4	9.3	15° 1569 mag. 7.2 superposed
166 - 14°	1648 b	49.7 - 14	54.0	9.0	1 v
167 - 14°	1659 b	50.6 - 14	32.0	9.0	1 v
168 - 14°	1665 b	51.5 - 14	18.2	9.1	1 v
169 - 14°	1661 b	51.0 - 14	6.5	9.0	1 v
170 - 14°	1670 b	52.5 - 14	17.1	8.8	1 v
171 - 14°	1674 b	53.1 - 14	20.5	9.0	1 v
172 - 14°	1664 b	51.4 - 14	37.7	8.8	1 v
173 - 14°	1663 b	51.4 - 14	45.3	9.1	1 v
174 - 14°	1656 b	50.4 - 14	13.8	9.2	1 v
175 - 14°	1632 b	47.6 - 14	56.9	9.2	1 v
176 - 14°	1631 b	47.6 - 14	58.0	9.3	1 v
177 - 15°	1546 b	45.6 - 15	2.3	8.6	1 v
178 - 15°	1545 b	45.6 - 15	6.3	9.0	1 v
179 - 15°	1523 b	42.8 - 15	44.8	8.9	1 v
180 - 16°	1609 b	43.3 - 16	8.8	9.2	1 v
181 - 16°	1609 b	42.3 - 16	3.0	7.8	1 v
182 - 16°	1623 b	43.9 - 16	46.4	8.7	1 v
183 - 16°	1636 b	45.9 - 16	13.0	8.8	1 v
184 - 15°	1537 b	44.3 - 15	22.5	9.3	1 v
185 - 15°	1541 b	44.6 - 15	14.5	9.4	1 v
186 - 15°	1521 b	42.3 - 15	16.8	9.1	1 v
187 - 15°	1519 b	41.8 - 15	10.1	8.3	1 v
188 - 15°	1511 b	40.7 - 15	54.7	7.5	1 v
189 - 15°	1504 b	39.6 - 15	26.5	8.6	1 v

cards made out

Saturday, April 12, 1913.

31897 faint disp.

No.	Int.	Class	Remark
190	5	H ₂	
191	4	H ₂	
192	6	H ₂	
193	2	H ₂	
194	9	A E.	
195	8	H ₂	
10.54 196	5	A E.	
197			
198			
199			
200			

190 -15°	1489 7560	6	37.4	-15	54.1 53.9	7.8 7.7	11
191 -15°	1454	6	36.7	-15	41.6	8.0	11
192 -15°	1481	6	36.4	-15	35.9	7.7	11
193 -15°	1483	6	36.6	-15	22.1	8.5	11
194 -15°	1478	6	35.5	-15	52.2	7.5	11
196 -15°	1479	6	35.5	-15	4.5	7.3	11
196 -14°	1560	6	37.4	-14	33.0	8.7	11

Identified by Amc. June 23, 1913
 Checked July 8, 1913 L.W.
 cards made out by W. C. W.
 Cards checked by E. F. Gill

Thursday Jan. 29, 1914

I 37560 long

2.51

No.	Sex.	Class	Remarks
1	1	F8	
2	1	K0	
3	5	A3	(Partly super on a high star)
4	2	F8	
5	1	K0	
6	3	F5	
7	1	A0	
8	7	A5	
9	1	F5	Partly super on 8
10	3	F2	
11	2	F2	
12	2	A2	
13	1	F5	
14	2	K5	
15	2	F8	
16	1	A2	
17	1	F2	
18	1	K0	
19	2	A3	
20	1	K0	
21	2	F0	
22	3	A0	
23	1	K0	
24	2	K0	
25	4	K0	
26	1	K0	
27	2	F2	

1	+5°	1838	7	48.6 + 5	1.4	9.0	1 V
2	+4°	1858	7	48.5 + 4	38.7	9.0	1 V
3	+4°	1859	7	48.7 + 4	37.7	8.2	1 V + 0.10 7 48.5 + 4 0.2
4	+4°	1861	7	48.9 + 4	58.2	8.4	1 V
5	+4°	1862	7	50.2 + 4	54.3	9.0	1 V
6	+4°	1864	7	50.3 + 4	15.5	9.0	1 V
7	+4°	1887	7	51.2 + 4	57.9	9.0	1 V
8	+3°	1864	7	52.8 + 3	39.1	8.2	1 V
9	+3°	1863	7	52.8 + 3	48.8	8.8	1 V
10	+3°	1866	7	53.0 + 3	51.5	8.5	1 V
11	+3°	1840	7	46.0 + 3	38.8	8.8	1 V
12	+3°	1841	7	48.1 + 3	48.5	8.5	1 V
13	+2°	1828	7	49.1 + 2	58.9	8.8	1 V
14	+2°	1831	7	49.8 + 2	55.1	8.7	1 V
15	+3°	1851	7	50.0 + 3	1.8	8.3	1 V
16	+2°	1842	7	52.1 + 2	59.9	9.0	1 V
17	+2°	1847	7	53.1 + 2	22.0	9.0	1 V
18	+2°	1849	7	53.6 + 2	9.9	9.0	1 V
19	+1°	1971	7	54.2 + 1	51.9	8.7	1 V
20	+1°	1980	7	55.4 + 1	36.2	8.8	1 V
21	+1°	1979	7	55.3 + 1	24.4	8.7	1 V
22	+0°	2150	7	52.4 + 0	51.7	9.0	1 V
23	+1°	1969	7	53.4 + 1	0.8	8.7	1 V
24	+0°	2145	7	51.4 + 0	23.6	8.5	1 V
25	+1°	1933	7	46.4 + 1	11.4	8.3	1 V
26	+1°	1935	7	46.3 + 1	18.6	8.8	1 V
27	+1°	1932	7	45.3 + 1	57.7	9.0	1 V

Thursday Jan. 29, 1914
I 37560 long.

No.	Int.	class	Remarks
28	2.	B5	
29	3.	A2	
30	4	B0	
31	1	K0	
32	1	K0	
33	1	K5	
34	2	K0	
35	2	B0	
36	2	K0	
37	3	B5	
38	3	A0	
39	2	A2	
40	2	A0	
41	1	A2	
3.00	42	2	A0
43	4	A0	
44	4	B3	< +
45	7	A3	
46	4	K2	
47	2	K0	
48	4	B8	Lewis may be minor

28 + 2°	1814	7	45.7 + 2	21.0	8.8	✓
29 + 3°	1830	7	45.6 + 3	11.7	9.0	✓
30 + 1°	1955	7	49.6 + 1	53.3	8.5	✓
31 + 1°	1950	7	48.5 + 1	12.1	8.8	✓
32 + 1°	1953	7	49.0 + 1	12.5	9.0	✓
33 + 0°	2133	7	48.9 + 0	56.2	8.5	✓
34 + 0°	2119	7	46.4 + 0	42.2	8.8	✓
35 + 0°	2131	7	48.7 + 0	3.1	8.8	✓
36 - 0°	1859	7	49.1 - 0	38.5	8.5	✓
37 - 0°	1861	7	49.5 - 0	24.4	8.5	✓
38 + 6°	1832	7	50.0 + 6	47.6	8.8	✓
39 + 7°	1881	7	50.6 + 7	22.0	8.8	✓
40 + 5°	1834	7	47.3 + 5	48.0	9.0	✓
41 + 5°	1824	7	46.8 + 5	3.7	9.1	✓
42 + 4°	1847	7	45.8 + 4	26.8	9.2	✓

Identified by Ames Feb. 10, 1914

Checked March 19, 1914 J.W.

Bards made out by S.B.S.

Bards checked by S.R.B.

✓ 43 + 4	1849	7	46.4 + 4	7	8.5	190 m J37580
✓ 44 + 3	1828	7	42.5 + 3	21	8.0	30 m J38370
✓ 45 + 3	1860					31 " "
✓ 46 + 3	1875					39 m J38271
✓ 47 + 3	1876					40 " "
48 + 4	1843					187 m J37180

Friday March 6, 1914

3.13

I 37440 long

No.	Dist.	Class	Remarks
✓ 101	2	Q ₀	
✓ 102	2	Q ₂	
✓ 103	2	Q ₅	
✓ 104	1	a	
✓ 105	2	B ₂	
✓ 106	1	a	
✓ 107	1	Q ₅	
✓ 108	2	Q ₀	
✓ 109	1	K ₀	
✓ 110	2	Q ₅	
✓ 111	1	Q ₅	
✓ 112	1	Q ₀	
✓ 113	2	Q ₅	
✓ 114	1	Q ₅	
✓ 115	1	Q ₅	0, 8, 10 very faint confirmed on I 20474 star disp.
✓ 116	3	Q ₀	
✓ 117	2	Q ₂	Another star of class Q ₂ super. at south.
✓ 118	1	K ₂	
✓ 119	6	B ₃	A few lines probably belong to star north.
✓ 120	3	K ₂	
✓ 121	2	Q ₀	
122			
123			

3.16

122 3 Q₁
123 4 Q₃

cont. 133, 10

101	+29°	1210	6	14.7	+29	2.4	8.9	✓
102	+29°	1208	6	14.4	+29	3.5	8.9	✓
103	+27°	1082	6	12.8	+27	34.0	9.0	+27° 1081 confused 9.2
104	+27°	1079	6	12.8	+27	1.9	9.3	✓
105	+26°	1206	6	14.8	+26	9.7	8.6	✓
106	+26°	1191	6	12.2	+26	29.3	9.0	✓
107	+26°	1187	6	11.8	+26	32.7	8.9	✓
108	+26°	1184	6	10.8	+26	43.7	8.3	✓
109	+27°	1070	6	11.3	+27	40.9	8.5	✓
110	+27°	1213	6	11.4	+27	44.7	8.7	✓
111	+26°	1177	6	10.2	+26	1.8	8.8	✓
112	+28°	1075	6	10.1	+28	30.3	9.3	✓
113	+25°	1151	6	2.5	+25	34.8	9.0	✓
114	+25°	1147	6	2.1	+25	68.0	9.0	✓
115	+26°	1117	6	1.9	+26	2.9	7.4	✓
116	+26°	1056	5	56.0	+26	4.4	8.6	✓
117	+26°	1045	5	54.4	+26	16.3	8.9	+26° 1044 super. 8.9
118	+28°	997	5	55.1	+28	18.0	8.3	✓
119	+28°	1008	5	56.9	+28	56.5	7.3	✓
120	+29°	1111	5	57.1	+29	6.2	7.5	✓
121	+29°	1109	5	57.0	+29	17.2	8.5	✓

Identified on cards by AmC. Mar. 7, 1914

Identified in book by J. B. M. March 14, 1914

Identification compared, cards + book by G. R. B.

✓ 122	+29°	1140	6	2.8	+29	31	7.6	116 on 137377
✓ 123	+30°	1151	6	3.2	+30	49	7.7	180 " "

