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## **Project PHaEDRA - Annie Jump Cannon 40**

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2

Feb. 25, 1912

Time: 23 hrs. 42 ~~h~~ min. I 37 594

[4 column table]

No. | Class | Int. | Remark |

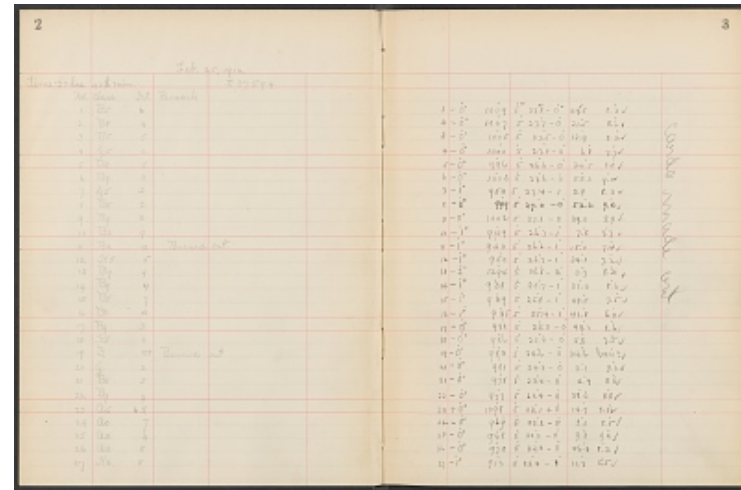
1	B5	6		
2	B8	4		
3	B5	5		
4	G5	6		
5	B8	5		
6	B9	3		
7	G5	3		
8	B8	3		
9	B9	2		
10	B3	9		
11	B2	10	Burned out.	
12	K5	5		
13	B9	4		
14	B9	4		
15	B5	7		
16	B3	10		
17	B9	3		
18	K5	6		
19	B	10+	Burned out	
20	G	2		
21	B8	5		
22	B9	4		
23	A5	6	<del>5</del>	
24	A0	7		
25	A0	4		
26	A2	8		
27	K2	8		

3

Cards made out

[5 column table]

1	-0° 1009	5^h 27.8^m	-0° 49.8	8.3
2	-0° 1007	5 27.7	-0 21.5	8.6
3	-0° 1005	5 27.5	-0 12.9	8.2
4	-0° 1000	5 27.1	-0 6.8	7.7
5	-0° 996	5 26.6	-0 34.5	8.8
6	-0° 1006	5 27.6	-0 55.3	9.0
7	-1° 953	5 27.4	-1 2.9	8.3
8	-0° 999	5 27.0	-0 52.2	9.0
9	-0° 1002	5 27.1	-0 29.0	8.9
10	-1° 949	5 26.7	-1 7.8	7.7
11	-1° 943	5 26.2	-1 15.0	7.4
12	-1° 950	5 26.7	-1 34.1	7.2
13	-2° 1294	5 26.8	-2 0.7	8.2
14	-1° 938	5 25.7	-1 21.0	8.6
15	-1° 939	5 25.8	-1 49.5	7.5
16	-1° 935	5 25.4	-1 41.8	6.0
17	-0° 988	5 25.5	-0 49.1	8.6
18	-0° 986	5 25.2	-0 5.8	7.5
19	-0° 983	5 24.6	-0 24.6	Var.
20	-0° 981	5 24.3	-0 0.1	9.0



21	-0° 978	5 23.4	-0 4.9	8.6
22	-0° 977	5 23.4	-0 28.6	8.8
23	+0° 1098	5 23.1	+0 14.7	8.1
24	-0° 969	5 22.2	-0 8.0	8.5
25	-0° 968	5 22.0	-0 9.3	9.2
26	-0° 970	5 22.3	-0 56.3	8.2
27	-1° 913	5 22.4	-1 11.7	5.5

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4

Feb. 25, 1912  
137594

[[4 column table]]

No. | Class | Int. | Remarks

--|--|--|--

28 | A | 1 |  
29 | B9 | 4 | E.  
30 | A | 1 |  
31 | A | 2 |  
32 | F5 | 4 | The north preceding of a group.  
33 | B3 | 5 |  
34 | B8 | 4 |  
35 | B3 | 8 | E.  
36 | B3 | 6 |  
37 | F2 | 5 |  
38 | B9 | 8 |  
39 | B3 | 8 |  
40 | K | 2 |  
41 | B8 | 6 | E.  
42 | B | 10+ | Burned out.  
43 | G0 | 8 |  
44 | F5 | 6 |  
45 | B2 | 10 |  
46 | A | 2 |  
47 | B9 | 6 |  
48 | B | 10 | Burned out  
49 | B1 | 8 |  
50 | K0 | 2 |  
51 | B3 | 5 |  
52 | B9 | 2 |  
53 | B9 | 6 |  
54 | A | 2 |

5

[[5 column table]]

--|--|--|--

28 | -1° 914 | 5 | 22.5 -1 | 46.2 | 9.0  
29 | -1° 918 | 5 | 22.8 -1 | 52.2 | 8.4  
30 | -1° 909 | 5 | 21.6 -1 | 52.7 | 9.0  
31 | -2° 1258 | 5 | 20.9 -2 | 4.1 | 8.5  
32 | -1° 905 | 5 | 20.8 -1 | 47.0 | 8.0  
33 | -2° 1254 | 5 | 20.5 -2 | 16.1 | 8.0  
34 | -1° 901 | 5 | 20.4 -1 | 56.3 | 8.7  
35 | -2° 1250 | 5 | 19.7 -2 | 29.1 | 7.5  
36 | -1° 897 | 5 | 19.8 -1 | 30.4 | 8.0  
37 | -1° 896 | 5 | 19.7 -1 | 12.3 | 8.2  
38 | -0° 945 | 5 | 18.1 -0 | 40.8 | 7.3  
39 | -1° 889 | 5 | 18.3 -1 | 37.6 | 7.6  
40 | -2° 1245 | 5 | 18.4 -2 | 10.0 | 8.5

The image shows a photograph of an open notebook with two pages visible. The left page is numbered '4' and the right page is numbered '5'. The notebook contains handwritten astronomical data in cursive ink. On the left page, there is a heading 'Feb. 25, 1912' and a table with columns for 'No.', 'Class', 'Int.', and 'Remarks'. The data entries are numbered 28 through 54. Some entries have additional notes, such as 'The north preceding of a group.' for entry 32. The right page continues the table with entries 55 through 64. The handwriting is consistent throughout, and the paper shows signs of age and wear.

41	-2°	1237	5 17.4 -2	38.2	8.0
42	-2°	1235	5 17.2 -2	31.9	3.7
43	-1°	886	5 17.1 -1	1.6	6.0
44	-1°	882	5 16.5 -1	0.8	7.2
45	-0°	936	5 16.3 -0	17.6	6.5
46	-1°	879	5 16.1 -1	8.1	8.5
47	-1°	872	5 14.2 -1	42.2	7.8
48	-0°	930	5 14.4 -0	31.8	4.8
49	-0°	929	5 14.1 -0	33.7	6.4
50	-1°	862	5 12.4 -1	41.5	8.5
51	-1°	859	5 12.3 -1	33.9	6.5
52	-1°	855	5 11.8 -1	15.1	8.6
53	-0°	913	5 10.6 -0	11.5	7.5
54	-0°	912	5 10.5 -0	26.4	9.0

[[right margin]] cards made out [[/right margin]]

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6

Feb. 25, 1912  
137594

[[4 column table]]

No. | Class | Int. | Remark

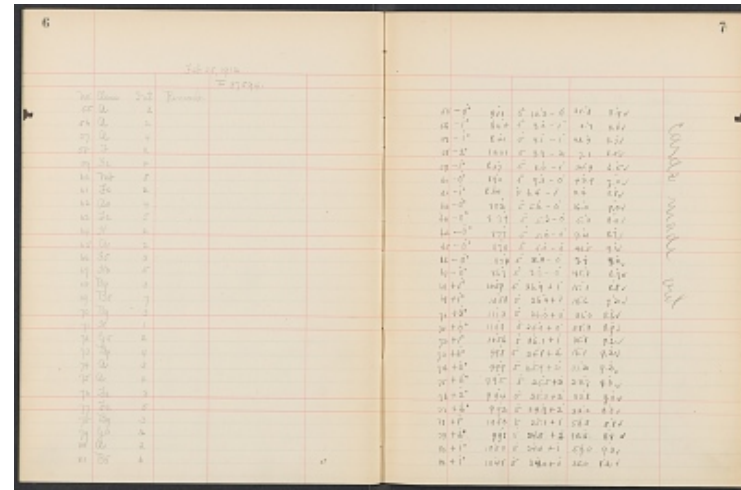
55	A	2	
56	A	2	
57	A	4	
58	F	2	
59	F2	8	
60	Mb	5	
61	F0	2	
62	A0	4	
63	F2	5	
64	K	2	
65	A	2	
66	F5	3	
67	K0	5	
68	B9	3	
69	B5	7	
70	B9	3	
71	K	1	
72	G5	2	
73	B9	4	
74	A	3	
75	A	4	
76	F2	3	
77	F2	5	
78	B9	3	
79	G0	3	
80	A	2	
81	B5	6	

7

Cards Made Out

[[5 column table]]

55	-0° 911	5 10.3 -0	31.8	8.9
56	-1° 844	5 9.3 -1	3.7	8.8
57	-1° 841	5 9.1 -1	48.9	8.7
58	-2° 1201	5 9.9 -2	7.1	8.5
59	-1° 837	5 8.0 -1	34.9	6.5
60	-0° 890	5 7.2 -0	43.9	7.0
61	-1° 834	5 6.4 -1	3.4	8.8
62	-0° 882	5 5.6 -0	16.0	9.0
63	-0° 879	5 5.2 -0	5.3	8.0
64	-0° 877	5 5.0 -0	9.4	8.7
65	-0° 878	5 5.0 -0	40.5	9.1
66	-0° 870	5 3.3 -0	7.7	9.0
67	-0° 867	5 2.7 -0	45.8	6.7
68	+1° 1059	5 26.9	+1 15.1	8.8
69	+1° 1058	5 26.4	+1 18.6	7.2
70	+0° 1113	5 26.0	+0 31.0	8.6
71	+0° 1108	5 25.0	+0 58.3	8.9
72	+1° 1056	5 26.1	+1 35.8	9.2
73	+2° 998	5 25.8	+2 16.1	9.2
74	+2° 999	5 25.9	+2 33.2	9.2
75	+2° 995	5 25.5	+2 23.7	9.0
76	+2° 994	5 25.3	+2 33.8	9.0



77		+2°	992		5	24.9		+2	32.0		8.3
78		+1°	1053		5	25.1		+1	58.8		8.8
79		+2°	991		5	24.8		+2	10.4		8.8
80		+1°	1050		5	24.4		+1	59.0		9.3
81		+1°	1045		5	24.0		+1	35.0		8.2

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8

Feb. 26, 1912  
137594

[[4 column table]]

No. | Class | Int. | Remarks

--|--|--|--

82	A0	2	
83	B3	9	
84	B9	4	
85	B5	5	
86	B3	6	
87	A2	4	
88	G0	2	
89	A	2	
90	B3	9	
91	B9	4	
92	B9	3	
93	G	2	
94	A	2	
95	B9	8	
96	B9	4	
97	A0	2	
98	A0	2	
99	A	2	
100	B9	4	
101	G0	2	
102	B9	5	
103	K	1	
104	B9	3	The northern of two stars.
105	G	1	
106	B9	4	
107	B8	4	
108	B3	9	

9

[[5 column table]]

--|--|--|--|--

82	+1°	1039	5 23.4 +1	29.9	9.0
83	+1°	1032	5 22.4 +1	39.4	7.2
84	+1°	1033	5 22.4 +1	59.6	9.1
85	+2°	974	5 21.3 +2	2.5	8.0
86	+1°	1026	5 21.3 +1	31.4	7.9
87	+1°	1025	5 21.2 +1	6.0	8.3
88	+1°	1023	5 20.8 +1	14.7	8.8
89	+1°	1022	5 20.7 +1	26.3	9.0
90	+1°	1021	5 20.5 +1	10.6	7.2
91	+0°	1082	5 20.4 +0	59.0	8.7
92	+0°	1085	5 20.7 +0	39.6	9.0
93	+0°	1089	5 21.8 +0	5.3	8.9
94	+0°	1088	5 21.6 +0	11.5	9.1
95	-0°	960	5 21.0 -0	5.8	7.0
96	-0°	964	5 21.5 -0	43.6	8.9

The image shows a photograph of an open notebook with two pages of handwritten astronomical data. The left page is labeled '8' and the right page is labeled '9'. The data is organized into columns, with some entries in italics. The right page has a vertical note 'W. M. W. 2/2' written along the right margin.



97		-0°	963		5	21.3	-0		34.9		8.9
98		-0°	961		5	21.0	-0		49.3		9.2
99		-1°	904		5	20.6	-1		5.2		9.2
100		-0°	958		5	20.3	-0		23.0		8.8
101		+0°	1077		5	20.1	+0		34.1		8.6
102		+0°	1078		5	20.1	+0		58.6		8.5
103		+0°	1075		5	19.5	+0		54.0		9.4
104		+1°	1017		5	19.8	+1		27.8		9.1
105		+1°	1016		5	19.5	+1		11.3		9.2
106		+0°	1063		5	18.9	+0		40.0		8.9
107		+0°	1058		5	18.6	+0		41.7		8.9
108		+0°	1056		5	18.4	+0		23.0		7.0

[[right margin]] cards made out [[/right margin]]

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10

Feb 26, 1912  
I 37594

[[4 column table]]

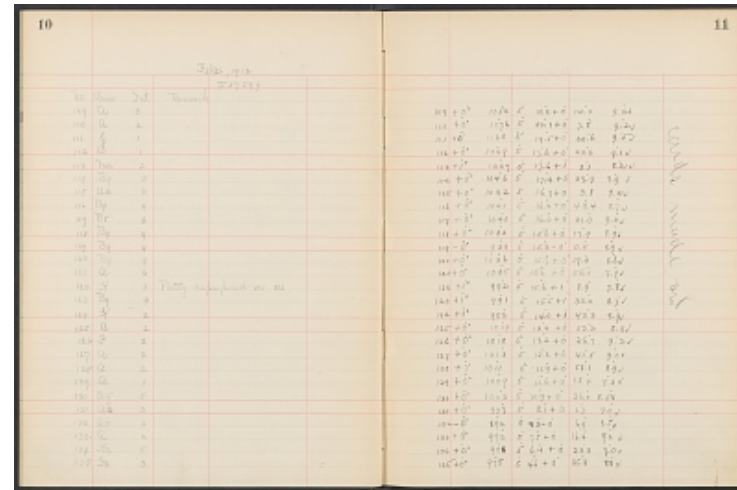
No. | Class | Int. | Remark

109	A	2	
110	A	2	
111	G	1	
112	A	1	
113	Ma	2	
114	B9	3	
115	A2	2	
116	B9	4	
117	B8	2	
118	B9	4	
119	B9	4	
120	B9	4	
121	A	6	
122	K	3	Partly super posed on 121
123	B9	4	
124	K	2	
125	A	2	
126	F	2	
127	A	2	
128	A	2	
129	A	1	
130	A5	5	
131	A2	3	
132	A0	4	
133	A	2	
134	K2	5	
135	G2	3	

11

Right Margin ^[[Cards made out]]  
[[5 column table]]

109	+0°	1054	5	18.2	+0	14.0	9.2
110	+0°	1076	5	20.1	+0	7.8	9.2
111	+0°	1068	5	19.5	0	30.6	9.5
112	+0°	1049	5	17.6	+0	48.8	9.1
113	+1°	1007	5	17.6	+1	2.1	8.2
114	+0°	1046	5	17.4	+0	37.9	8.9
115	+0°	1042	5	16.7	+0	3.8	9.2
116	+0°	1041	5	16.4	+0	43.4	8.7
117	+0°	1040	5	16.0	+0	31.0	9.0
118	+0°	1033	5	15.6	+0	17.9	8.9
119	-0°	933	5	15.3	-0	0.5	8.9
120	+0°	1036	5	15.7	+0	59.4	8.6
121	+0°	1035	5	15.6	+0	55.0	7.9
122	+1°	992	5	15.6	+1	8.9	7.8



123	+1°	991	5	15.5	+1	33.0	8.7
124	+1°	982	5	14.0	+1	43.3	8.9
125	+0°	1019	5	13.4	+0	52.2	8.8
126	+0°	1018	5	13.2	+0	26.7	9.2
127	+0°	1013	5	12.2	+0	41.5	9.0
128	+0°	1011	5	11.9	+0	58.1	8.9
129	+0°	1009	5	11.6	+0	18.2	9.3
130	+0°	1003	5	10.9	+0	26.0	8.5
131	+0°	997	5	8.1	+0	1.7	9.0
132	-0°	892	5	8.0	-0	6.9	8.5
133	+0°	992	5	7.5	+0	16.4	9.2
134	+0°	988	5	6.4	+0	23.3	7.0
135	+0°	978	5	4.6	+0	25.8	8.8

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12

Feb. 26, 1912  
I37694[[4 column table]]  
No.	Class	Int.	Remark

136|B9 |8 |  
 137|F5 |8 |  
 138|A |3 |  
 139|A |3 |  
 140|G5 |3 |  
 141|F5 |4 |E.  
 142|B |10+|  
 143|A2 |4 |  
 144|K |4 |E.  
 145|B8 |4 |  
 146|F0 |5 |  
 147|F5 |4 |  
 148|A |2 |  
 149|A |3 |  
 150|B3 |8 |  
 151|A |3 |  
 152|A |3 |  
 153|A0 |10|  
 154|A0 |2 |  
 155|A2 |5 |  
 156|A0 |2 |  
 157|B8 |6 |  
 158|A0 |2 |  
 159|A |7 |~~[[[strikethrough]] Several [[/[strikethrough]] H gamma SE of~~  
 another star are superposed.  
 160|F2 |4 |  
 161|B3 |10|  
 162|B3 |5 |

13

[[5 column table]]  
--|--|--|--|

136|+0° 974 |5 4.2 | +0 20.1 |7.8  
 137|+0° 975 |5 4.3 | +0 50.8 |6.5  
 138|+1° 923 |5 3.1 | +1 10.2 |9.0  
 139|+1° 911 |5 1.1 | +1 5.4 |9.0  
 140|+0° 958 |5 1.0 | +0 44.9 |8.3  
 141|+0° 946 |~~[[[strikethrough]] 5 0.00 [[/[strikethrough]] 4 59.8 | +0 48.1~~  
 |8.3  
 142|+4° 1002|5 31.6 | +4 1.8 |5.0  
 143|+4° 995 |5 30.6 | +4 50.8 |8.3  
 144|+5° 973 |5 30.4 | +5 55.0 |7.5  
 145|+4° 989 |5 29.5 | +4 40.3 |8.0  
 146|+4° 983 |5 28.5 | +4 31.6 |8.0  
 147|+4° 982 |5 28.2 | +4 55.8 |8.2  
 148|+4° 979 |5 27.8 | +4 44.4 |8.9

The image shows a handwritten astronomical catalog on two pages of a notebook. The left page (12) contains a list of stars with their classifications and intensities. The right page (13) continues the list, with some stars having additional remarks or coordinates. The handwriting is in cursive, and the paper shows signs of age and wear.

149	+5°	962	5	27.4	+5	21.7	8.7
150	+5°	958	5	27.0	+5	33.5	7.3
151	+5°	957	5	26.7	+5	18.5	8.3
152	+4°	975	5	26.6	+4	42.8	8.8
153	+3°	964	5	26.7	+3	39.8	6.2
154	+3°	965	5	26.8	+3	28.1	8.8
155	+2°	1003	5	26.5	+2	57.6	8.6
156	+2°	1001	5	26.3	+2	37.6	9.2
157	+3°	<del>898</del>	5	25.6	+3	1.8	8.1
158	+3°	952	5	24.4	+3	1.9	9.2
159	+2°	986	5	24.1	+2	43.8	8.1
160	+2°	983	5	23.8	+2	57.9	9.0
161	+3°	948	5	23.6	+3	10.9	6.5
162	+3°	944	5	23.5	+3	<del>30.8</del>	
14.5	9.	<del>0</del>					

cards made out

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14

Feb. 26, 1912.  
137594

[[4 columned table]]

No. | Class | Int. | Remark |

163| G5 | 1 |

164| A | 2 |

165| A5 | 2 | Difficult |

166| A | 2 |

167| A | 2 |

168| B3 | 7 |

169| A | 3 ~~[[/del]]~~ 2 ~~[[/del]]~~ |

170| A0 | 2 |

171| B8 | 6 |

172| B5 ~~[[/del]]~~ K0 ~~[[/del]]~~ | 5 ~~[[/del]]~~ 4 ~~[[/del]]~~ |

172a| K0 ~~[[/del]]~~ B5 ~~[[/del]]~~ | 4 ~~[[/del]]~~ 5 ~~[[/del]]~~ |

173| A0 | 3 |

174| B3 | 8 |

175| G0 | 4 | A star of class A superposed. |

176| B8 | 6 |

177| B | 10 | Burned out |

178| B9 | 8 |

179| A5 | 2 |

180| G5 | 6 |

181| A | 3 |

The image shows a photograph of an open notebook with two pages visible, numbered 14 and 15. The pages contain handwritten astronomical data, likely from a catalog or journal. The data is organized into columns, with some entries crossed out. The handwriting is in cursive and somewhat faded. The notebook has a dark cover visible around the edges.

No.	Class	Int.	Remark
163	G5	1	
164	A	2	
165	A5	2	Difficult
166	A	2	
167	A	2	
168	B3	7	
169	A	3 <del>[[/del]]</del> 2 <del>[[/del]]</del>	
170	A0	2	
171	B8	6	
172	B5 <del>[[/del]]</del> K0 <del>[[/del]]</del>	5 <del>[[/del]]</del> 4 <del>[[/del]]</del>	
172a	K0 <del>[[/del]]</del> B5 <del>[[/del]]</del>	4 <del>[[/del]]</del> 5 <del>[[/del]]</del>	
173	A0	3	
174	B3	8	
175	G0	4	A star of class A superposed.
176	B8	6	
177	B	10	Burned out
178	B9	8	
179	A5	2	
180	G5	6	
181	A	3	

182| A | 1 |

183| B9 | 7 |

184| B | 10 | HB bright? |

185| B8 | 5 |

186| B3 | 8 |

187| A | 3 |

188| F8 | 2 |

189| F2 | 3 |  
[[/4 columned table]]

15

[[5 columned table]]

163| +3° 940 | 5 23.2 ~~[[/strickethrough]]~~ .0 ~~[[/strickethrough]]~~ | +3 24.8 | 9.0 |

164| +3° 939 | 5 22.9 | +3 37.4 | 8.9 |

165| +3° 936 | 5 22.7 | +3 9.3 | 9.1 |

166| +3° 933 | 5 22.5 | +3 25.5 | 9.2 |

167| +3° 932 | 5 22.3 | +3 26.9 | 9.0 |

168| +3° 928 | 5 22.0 | +3 1.2 | 7.8 |

169| +3° 920 | 5 21.3 | +3 30.7 | 8.8 |

170| +3° 918 | 5 21.2 | +3 4.5 | 9.0 |

171| +3° 916 | 5 20.9 | +3 32.4 | 9.0 |

172| +3° 910 | 5 20.5 | +3 24.3 | 8.0 |

172a| +4° 933 | 5 19.7 | +4 8.0 | 8.0 |

173| +3° 905 | 5 19.7 | +3 42.3 | 9.0 |

174| +3° 903 | 5 19.5 | +3 42.5 | 7.2 |

175| +3° 899 | 5 19.1 | +3 56.7 | 7.8 |

176| +3° 901 | 5 19.3 |+3 29.1 | 8.0 |  
 177| +2° 962 | 5 19.3 |+2 58.0 | 5.3 |  
 178| +2° 961 | 5 18.9 |+2 47.5 | 7.6 |  
 179| +2° 960 | 5 18.6 |+2 48.6 | 9.0 |  
 180| +2° 965 | 5 19.7 |+2 12.8 | 6.9 |  
 181| +1° 1015 | 5 19.3 |+1 56.2 | 8.7 |  
 182| +1° 1011 | 5 18.7 |+1 45.8 | 9.2 |  
 183| +1° 1009 | 5 17.7 |+1 47.1 | 8.7 |  
 184| +1° 1005 ~~6~~ | 5 17.2 |+1 42.4 | 5.0  
 |  
 185| +1° 996 | 5 16.3 |+1 57.1 | 8.2 |  
 186| +2° 947 | 5 17.1 |+2 13.3 | 7.4 |  
 187| +2° 953 | 5 17.6 |+2 36.3 | 9.0 |  
 188| +2° 952 | 5 17.6 |+2 46.6 | 8.7 |  
 189| +3° 880 | 5 16.9 |+3 22.8 | 8.5 |  
 [[/5 columned table]]  
 [[right margin]]  
 cards made out  
 [[/right margin]]

Project PHaEDRA - Annie Jump Cannon 40  
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Feb. 26, 1912  
137594

[[4 column table]]  
No.	Class	Int.	Remark

190|B|10| Burned out  
191|G|1|  
192|A0|7|  
193|G5|3|  
194|A0|5|  
195|K5|2|  
196|A|2|  
197|B5|7| Helium lines very hazy.  
198|B8|3|  
199|A5|7|  
200|G5|4|  
201|F8|5|  
202|F5|8|  
203|A5|2|  
204|A|2|  
205|B9|8|  
206|K|2x|  
207|A|2|  
208|K0|3|  
209|A2|8| Band G maybe seen. Complex?  
210|K0|10|  
211|A0|3|  
212|A0|3|  
213|A0|6|  
214|A0|5|  
215|B9|4|  
216|A|2|

17

[[5 column table]]  
--|--|--|--|--

190|+3° 871|5|14.2|+3 24.0|5.3  
191|+3° 873|5|15.4|+3 3.4|8.5  
192|+2° 936|5|15.2|+2 39.3|7.6  
193|+2° 934|5|15.0|+2 27.9|8.5  
194|+2° 933|5|14.9|+2 50.1|8.3  
195|+3° 864|5|14.5|+3 25.4|8.0  
196|+3° 858|5|13.8|+3 39.2|9.0  
197|+3° 857|5|13.7|+3 51.1|7.3  
198|+4° 905|5|13.4|+4 19.6|8.7  
199|+2° 926|5|13.3|+2 46.6|7.3  
200|+2° 924|5|13.2|+2 23.9|7.2  
201|+4° 920|5|12.3|+2 22.4|8.0  
202|+2° 916|5|11.6|+2 26.7|6.1  
203|+1° 973|5|12.3|+1 26.1|9.2  
204|+1° 959|5|9.5|+1 40.8|9.1

16				17			
Helium lines				Helium lines			
No.	Class	Int.	Remark	No.	Class	Int.	Remark
190	B	10	Burned out	190	B	10	Burned out
191	G	1		191	G	1	
192	A0	7		192	A0	7	
193	G5	3		193	G5	3	
194	A0	5		194	A0	5	
195	K5	2		195	K5	2	
196	A	2		196	A	2	
197	B5	7	Helium lines very hazy.	197	B5	7	Helium lines very hazy.
198	B8	3		198	B8	3	
199	A5	7		199	A5	7	
200	G5	4		200	G5	4	
201	F8	5		201	F8	5	
202	F5	8		202	F5	8	
203	A5	2		203	A5	2	
204	A	2		204	A	2	
205	B9	8		205	B9	8	
206	K	2x		206	K	2x	
207	A	2		207	A	2	
208	K0	3		208	K0	3	
209	A2	8	Band G maybe seen. Complex?	209	A2	8	Band G maybe seen. Complex?
210	K0	10		210	K0	10	
211	A0	3		211	A0	3	
212	A0	3		212	A0	3	
213	A0	6		213	A0	6	
214	A0	5		214	A0	5	
215	B9	4		215	B9	4	
216	A	2		216	A	2	

205	+1° 957	5	9.2	+1	47.5	6.8
206	+1° 954	5	8.7	+1	35.3	8.2
207	+1° 952	5	8.4	+1	9.5	8.7
208	+1° 945	5	7.7	+1	24.3	8.2
209	+1° 938	5	6.0	+1	47.2	6.8
210	+2° 888	5	5.7	+2	40.5	4.8
211	+2° 876	5	2.5	+2	45.2	8.8
212	+2° 874	5	1.8	+2	55.1	8.7
213	+3° 785	5	1.3	+3	2.3	7.0
214	+3° 777	5	0.5	+3	33.3	8.0
215	+2° 868	5	0.0	+2	16.8	8.2
216	+2° 865	4	59.8	+2	15.3	9.1

cards made out

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[[4 columned table]]

No. | Class | Int. |

217	B8	5	E.
218	A	3	E.
219	K	3	E.
220	A	5	E.
221	A2	5	
222	K	4	
223	F	3	
224	G5	6	
225	A	2	
226	F5	2	
227	B8?	10	Burned out.
228	G0	3	
229	F2	4	
230	B8	4	
231	K0	5	
232	B8	4	
233	A0	2	
234	F0	2	
235	A0	4	E.
236	A0	4	
237	G5	3	
238	B	10+	Burned out.
239	F2	3	
240	A0	8	
241	G5	2	
242	F5	4	
243	A	2	

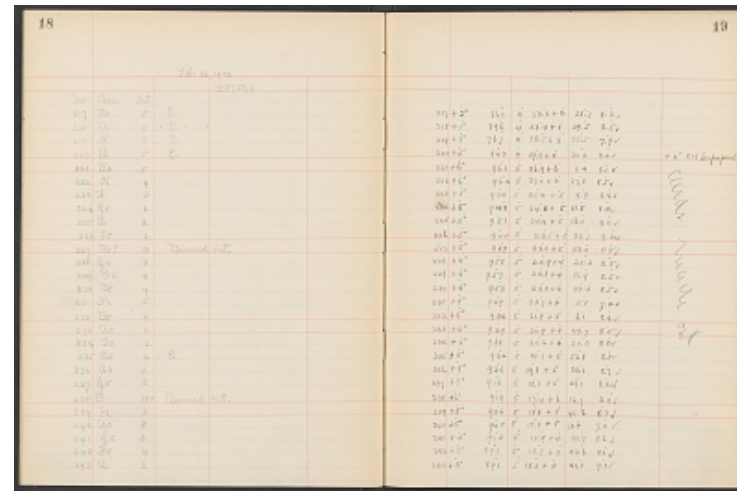
[[1/4 columned table]]

19

[[right margin]]Cards made out[[/right margin]]

[[5 columned table]]

217	+2°	860	4 58.8 +2	28.7 8.3	
218	+1°	896	4 58.4 +1	39.5 8.5	
219	+3°	767	4 58.5 +3	35.5 7.9	
220	+4°	840	4 59.9 +4	20.4 8.4	+4° 819 superposed
221	+6°	961	5 26.9 +6	1.4 8.1	
222	+6°	962	5 27.0 +6	27.8 8.5	
223	+5°	954	5 25.4 +5	9.9 8.4	
224	+5°	948	5 24.0 +5	11.5 8.0	
225	+5°	951	5 24.4 +5	56.0 9.0	
226	+5°	944	5 23.5 +5	32.7 9.2	
227	+5°	939	5 23.0 +5	50.0 5.5	
228	+4°	958	5 23.9 +4	25.2 8.5	
229	+4°	957	5 23.8 +4	11.9 8.5	
230	+4°	953	5 23.3 +4	33.4 8.5	
231	+4°	949	5 22.7 +4	5.1 7.4	
232	+5°	934	5 21.9 +5	6.1 8.4	
233	+4°	939	5 20.9 +4	49.7 8.5	



234	+4°	938	5	20.6	+4	20.0	8.8
235	+5°	932	5	21.1	+5	52.8	8.5
236	+5°	926	5	19.8	+5	28.1	8.7
237	+5°	916	5	18.1	+5	49.1	8.2
238	+6°	919	5	17.4	+6	12.7	2.0
239	+5°	904	5	15.8	+5	41.2	8.3
240	+5°	905	5	15.8	+5	10.4	7.0
241	+4°	914	5	15.9	+4	30.7	8.6
242	+3°	898	5	18.7	+3	42.6	8.0
243	+3°	891	5	18.3	+3	41.1	9.0

[[/5 columned table]]

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[[4 column table]]

No. | Class | Int. | Remark |

244| G | 2 | |

245| F5 | 7 | |

246| K5 | 1 | |

247| G5 | 2 | |

248| K | 1 | |

249| G | 2 | |

250| A | 4 | |

251| G5 | 5 | |

252| F0 | 2 | |

253| F5 | 4 | |

254| K | 2 | |

255| F0 | 4 | |

256| A | 3 | |

257| F5 | 3 | |

258| A0 | 6 | |

259| B8 | 3 | |

260| K0 | 7 | |

261| A | 3 | |

262| G0 | 3 | |

263| F0 | 2 | |

20				21			
No.	Class	Int.	Remark	No.	Class	Int.	Remark
244	G	2		244	G	2	
245	F5	7		245	F5	7	
246	K5	1		246	K5	1	
247	G5	2		247	G5	2	
248	K	1		248	K	1	
249	G	2		249	G	2	
250	A	4		250	A	4	
251	G5	5		251	G5	5	
252	F0	2		252	F0	2	
253	F5	4		253	F5	4	
254	K	2		254	K	2	
255	F0	4		255	F0	4	
256	A	3		256	A	3	
257	F5	3		257	F5	3	
258	A0	6		258	A0	6	
259	B8	3		259	B8	3	
260	K0	7		260	K0	7	
261	A	3		261	A	3	
262	G0	3		262	G0	3	
263	F0	2		263	F0	2	

264| G0 | 6 | |

265| B8 | 3 | |

266| A | 2 | |

267| K0 | 3 | |

268| F8 | 4 | |

269| A0 | 5 | |

270| F2 | 2 | |

21

[[7 column table]]

244| +4° | 922 | 5 | 17.6 +4 | 3.7 | 8.5 |

245| +5° | 899 | 5 | 14.5 +5 | 15.1 | 7.5 |

246| +5° | 897 | 5 | 14.0 +5 | 43.5 | 8.5 |

247| +5° | 891 | 5 | 12.8 +5 | 30.7 | 8.5 |

248| +5° | 884 | 5 | 11.9 +5 | 1.3 | 8.6 |

249| +4° | 895 | 5 | 10.8 +4 | 52.2 | 8.5 |

250| +5° | 877 | 5 | 10.5 +5 | 9.4 | 8.4 |

251| +5° | 875 | 5 | 9.8 +5 | 19.2 | 7.8 |

252| +4° | 891 | 5 | 10.0 +4 | 31.5 | 8.3 |

253| +3° | 841 | 5 | 10.4 +3 | 32.0 | 8.9 |

254| +2° | 918 | 5 | 11.8 +2 | 59.0 | 8.8 |

255| +3° | 836 | 5 | 9.4 +3 | 18.8 | 8.6 |

256| +3° | 832 | 5 | 8.9 +3 | 2.9 | 8.7 |

257| +3° | 827 | 5 | 8.2 +3 | 35.1 | 8.5 |

258| +4° | 882 | 5 | 7.6 +4 | 5.5 | 8.0 |

259| +4° | 879 | 5 | 7.4 +4 | 43.5 | 8.9 |

260| +4° | 877 | 5 | 7.0 +4 | 59.1 | 6.0 |

261| +4° | 868 | 5 | 6.0 +4 | 2.2 | 8.4 |

262| +3° | 812 | 5 | 5.8 +3 | 30.5 | 8.5 |

263| +4° | 861 | 5 | 4.5 +4 | 3.9 | 8.6 |

264| +4° | 858 | 5 | 4.1 +4 | 13.6 | 7.8 |

265| +4° | 864 | 5 | 5.0 +4 | 36.4 | 9.0 |

266| +4° ~~[[strikethrough]]~~ +5° ~~[[\strikethrough]]~~ | 842 | 5 | 5.1  
~~[[strikethrough]]~~ +4 ~~[[\strikethrough]]~~ +5 | 5.5 | 9.0 |

267| +5° | 834 | 5 | 4.1 +5 | 13.6 | 8.5 |

268| +5° | 830 | 5 | 3.8 +5 | 31.8 | 8.5 |

269| +5° | 827 | 5 | 2.8 +5 | 7.8 | 8.0 |

270| +5° | 821 | 5 | 2.0 +5 | 35.6 | 8.7 |

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22  
Feb. 26, 1912  
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[[4 column table]]

No.	Class	Int.	Remark

271 | F | 2 |  
272 | A5 | 3 | Focus poor  
273 | A0 | 6 |  
274 | B9 | 7 |  
275 | A | 3 |  
276 | F2 | 4 |  
277 | K | 3 |  
278 | G5 | 2 |  
279 | G | 5 | The northern of two stars. E.  
Time: 0 hrs. 50 min.

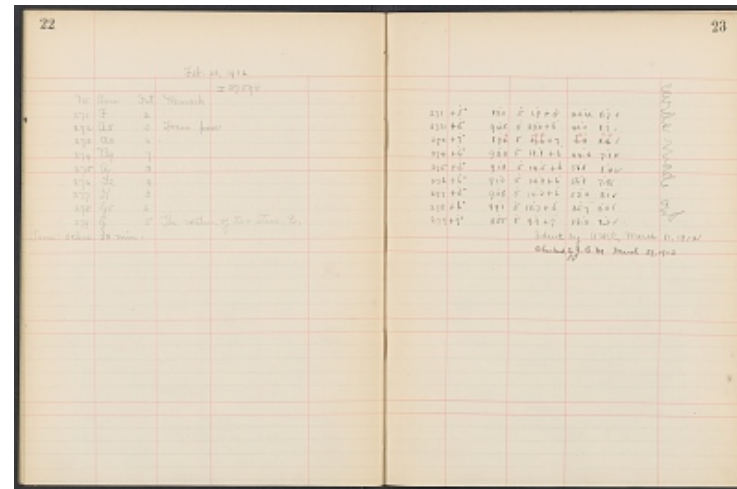
23

[[5 column table]]

271 | +5° 820 | 5 1.9 | +5 42.4 | 8.7 |  
272 | +6° 945 | 5 23.0 | +6 40.0 | 8.7 |  
273 | +7° 896 | ~~[[/del]]~~ 0 ~~[[/del]]~~ 5 19.2 ~~[[/del]]~~  
17.6 ~~[[/del]]~~ +7 2.1 ~~[[/del]]~~ 6.3 ~~[[/del]]~~ 7.9  
~~[[/del]]~~ 8.4 ~~[[/del]]~~  
274 | +6° 923 | 5 18.8 | +6 44.4 | 7.1 |  
275 | +6° 912 | 5 14.5 | +6 52.8 | 8.4 |  
276 | +6° 910 | 5 14.3 | +6 56.8 | 7.9 |  
277 | +6° 908 | 5 14.2 | +6 52.2 | 8.1 |  
278 | +6° 891 | 5 10.7 | +6 35.7 | 8.0 |  
279 | +7° 855 | 5 9.9 | +7 12.0 | 8.0 |  
[[/5 columned table]]

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cards made out  
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Ident by A.M.S March 11, 1912  
Checked by J.C.M March 29, 1912



Project PHaEDRA - Annie Jump Cannon 40  
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24  
Feb. 26, 1912  
Time: 22 hrs 45 min. I 37555

[[4 column table]]

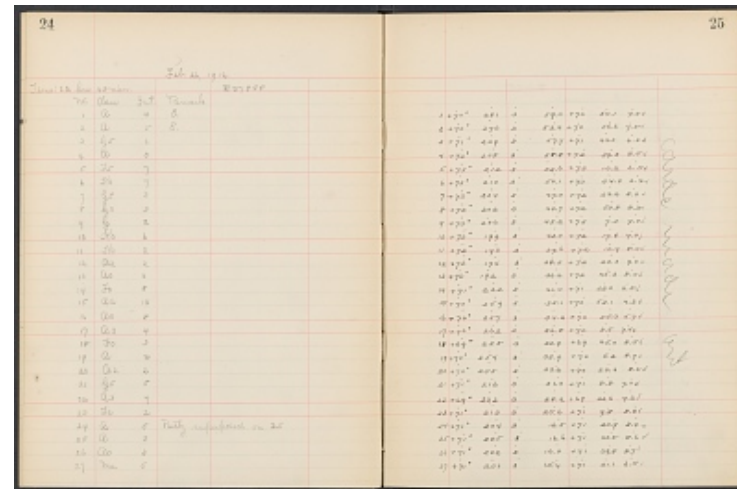
No. | Class | Int. | Remarks  
--|--|--

1	A	4	E
2	A	5	E
3	G5	6	
3	G5	6	
4	A	3	
5	F5	7	
6	K0	7	
7	G5	3	
8	G0	2	
9	G	2	
10	K0	6	
11	K0	2	
12	A2	2	
13	A0	6	
14	F0	8	
15	A2	10	
16	A0	8	
17	A3	4	
18	F0	3	
19	A	2	
20	A2	2	
21	G5	5	
22	A3	7	
23	F2	2	
24	A	5	Partly superposed on 25
25	A	3	
26	A0	3	
27	Ma	5	

25

[[8 column table]]

1	+70°	281	3	59.0	+70	50.1	7.0
2	+70°	276	3	53.4	+70	56.6	7.5
3	+71°	239	3	57.7	+71	44.0	6.3
4	+72°	208	3	58.8	+72	39.3	8.5
5	+73°	212	3	52.6	+73	10.2	6.5
6	+73°	210	3	50.1	+73	34.4	6.4
7	+72°	204	3	47.0	+72	24.2	8.0
8	+72°	202	3	44.7	+72	53.9	8.3
9	+73°	206	3	43.2	+73	7.3	9.0
10	+72°	199	3	42.0	+72	17.4	7.0
11	+72°	196	3	39.6	+72	10.9	8.0
12	+72°	194	3	38.3	+72	20.3	9.0
13	+72°	192	3	36.6	+72	45.3	8.0
14	+71°	222	3	41.0	+71	22.0	6.5
15	+70°	259	3	35.1	+70	52.1	4.3



16	+70°	257	3	34.2	+70	25.3	5.7
17	+70°	262	3	36.8	+70	3.5	7.4
18	+69°	225	3	32.9	+69	45.0	8.5
19	+70°	254	3	32.9	+70	5.2	8.7
20	+70°	255	3	33.2	+70	24.3	8.5
21	+71°	216	3	31.0	+71	8.8	7.0
22	+69°	222	3	28.2	+69	22.6	7.2
23	+71°	213	3	25.6	+71	9.8	8.4
24	+71°	204	3	16.5	+71	9.8	8.4
25	+71°	205	3	16.6	+71	40.5	8.6
26	+71°	202	3	16.4	+71	39.8	8.7
27	+71°	201	3	15.4	+71	21.1	6.5

Project PHaEDRA - Annie Jump Cannon 40  
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Feb. 26, 1912  
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[[4 column table]]

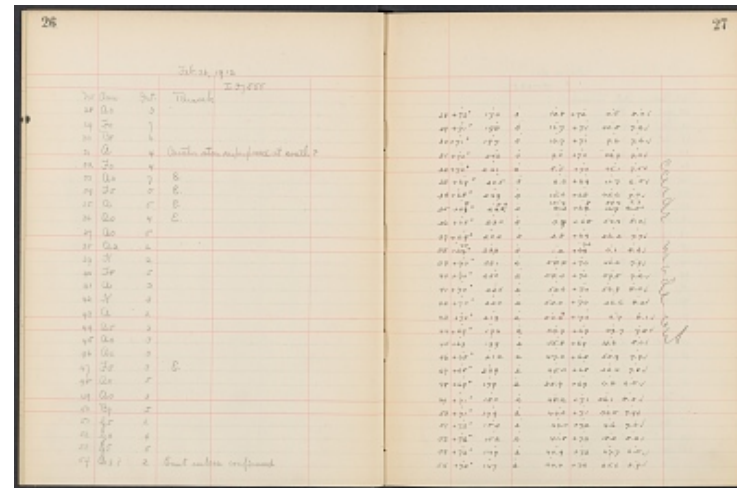
No. | Class | Int. | Remark |

28	A3	3	
29	F0	7	
30	B8	6	
31	A	4	Another star superposed at south?
32	F0	4	
33	A0	7	E.
34	F5	5	E.
35	A	5	E.
36	A0	4	E.
37	A0	5	
38	A2	2	
39	K	2	
40	F8	5	
41	A	3	
42	K	3	
43	A	2	
44	A5	3	
45	A0	3	
46	A2	3	
47	F5	3	E.
48	A0	5	
49	A0	3	
50	B9	5	
51	G5	2	
52	G0	4	
53	G5	5	
54	A3?	2	Omit unless confirmed

27

[[8 column table]]

28	+72°	173	3	13.8	+72	3.5	8.0	
29	+71°	198	3	11.7	+71	40.8	7.2	
30	+71°	197	3	10.7	+71	9.6	7.6	
31	+70°	242	3	9.0	+70	52.9	9.0	
32	+70°	241	3	8.5	+70	45.1	7.5	
33	+69°	205	3	6.3	+69	11.7	6.5	



34 | +68° | 249 | 3 | 15.0 | +68 | 45.6 | 7.0 |

35 | +68° ~~9~~ ~~250~~ ~~05~~  
~~3~~ | 15.4 ~~6.3~~ | +68  
~~9~~ | ~~11.7~~  
~~57.4~~ | ~~6.5~~ ~~7.3~~ |

36 | +68° | 230 | 3 | 3.8 | +68 | 54.4 | 8.0 |

37 | +69° | 203 | 3 | 2.8 | +69 | 26.2 | 7.7 |

38 | +70° ~~69~~ | 233 | 3 | 1.2 | +70  
~~69~~ | 0.1 | 8.6 |

39 | +70° | 231 | 2 | 58.8 | +70 | 40.2 | 7.9 |

40 | +70° | 230 | 2 | 58.3 | +70 | 59.8 | 7.2 |

41 | +70° | 225 | 2 | 52.6 | +70 | 56.9 | 8.3 |

42 | +70° | 220 | 2 | 52.0 | +70 | 26.6 | 8.2 |

43 | +70° | 219 | 2 | 50.0 ~~.1~~ | +70 | 4.7 |  
8.1 |

44 | +69° | 196 | 2 | 53.9 | +69 | 39.7 | 7.8 |

45 | +69° | 199 | 2 | 55.8 | +69 | 12.6 | 8.0 |

46 | +68° | 212 | 2 | 47.0 | +68 | 53.9 | 7.9 |

47 | +68° | 209 | 2 | 45.0 | +68 | 36.4 | 7.8 |

48 | +69° | 179 | 2 | 35.9 | +69 | 0.8 | 6.5 |

49 | +71° | 180 | 2 | 48.2 | +71 | 26.1 | 8.3 |

50 | +71° | 179 | 2 | 44.0 | +71 | 33.5 | 7.9 |

51 | +72° | 153 | 2 | 44.0 | +72 | 4.6 | 7.0 |

52 | +72° | 152 | 2 | 41.8 | +72 | 18.2 | 8.2 |

53 | +72° | 149 | 2 | 40.9 | +72 | 47.7 | 6.5 |

54 | +72° | 147 | 2 | 40.0 | +72 | 25.6 | 8.9 |

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Project PHaEDRA - Annie Jump Cannon 40  
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28  
Feb. 26, 1912  
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[[4 column table]]  
No.	Class	Int.	Remark

55|g5|5|  
56|B8|4|Poor focus  
57|g5|3|  
58|g0|2|  
59|g0|2|  
60|A0|8|  
61|K0|4|  
62|F5|6|  
63|K0|4|  
64|F2|3|  
65|A0|2|  
66|F|2|  
67|A2|4|  
68|g5|3|  
69|A|2|  
70|A|3|  
71|g5|1|  
72|K0|5|  
73|ma|3|  
74|F8|5|  
75|F0|4|  
76|A0|9|  
77|A0|5|  
78|B9|7|  
79|g5|4|  
80|F5|5|  
81|F2|6|

29  
[[right margin says "cards made out"]]  
[[5 column table]]  
---|---|---|---|---

55|+72° 146|2 38.4|+72 40.4|7.5  
56|+72° 145|2 36.0 ~~36.1~~ ~~[[\strikethrough]]~~ +72 18.2|7.5  
57|+71° 167|2 34.7|+71 45.4|7.5  
58|+72° 187|3 30.1|+72 33.5|8.0  
59|+72° 184|3 27.1|+72 56.2|8.2  
60|+72° 178|3 19.4|+72 50.5|6.7  
61|+72° 172|3 10.4|+72 40.5|7.1  
62|+73° 180|3 8.1|+73 38.2|6.9  
63|+73° 179|3 5.5 ~~5.6~~ ~~[[\strikethrough]]~~ +73 9.5|7.4  
64|+72° 166|3 3.2|+72 15.1|8.0  
65|+72° 164|3 2.7|+72 21.2|8.7  
66|+72° 162|3 0.8|+72 15.4|9.2  
67|+71° 187|2 54.2|+71 58.7|8.0  
68|+72° 157|2 52.6|+72 25.2|7.7  
69|+72° 156|2 52.3|+72 15.3|8.4  
70|+72° 154|2 48.2|+72 1.5|7.8  
71|+73° 173|3 ~~0.6~~ ~~[[\strikethrough]]~~ +73 28.5|8.9  
72|+73° 172|2 59.7|+73 18.6|6.8

73	+73°	171	2 58.7	+73 40.5	7.0
74	+73°	170	2 57.8	+73 44.6	7.1
75	+73°	169	2 57.1	+73 38.4	8.4
76	+73°	168	2 56.3	+73 49.6	5.2
77	+73°	165	2 50.2	+73 21.6	7.4
78	+74°	131	2 48.6	+74 34.2	7.2
79	+74°	128	2 47.6	+74 19.0	8.1
80	+74°	123	2 40.7	+74 34.7	7.9
81	+75°	113	2 40.5	+75 2.9	8.6

Project PHaEDRA - Annie Jump Cannon 40  
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30

Feb. 26, 1912  
137555

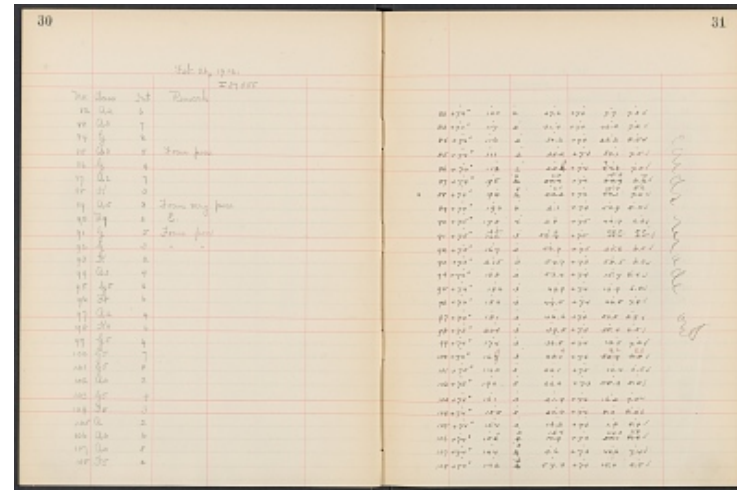
[[4 column table]]  
No.	Class	Int.	Remark

82	A2	6	Burned out
83	A3	7	
84	G	2	
85	A3	5	
86	G	4	
87	A2	7	
88	K	3	
89	A5	3	Focus very poor
90	B9	8	E.
91	G	5	Focus poor
92	G	3	" "
93	K	2	
94	A3	4	
95	G5	6	
96	F8	6	
97	A2	4	
98	K0	6	
99	G5	4	
100	G5	7	
101	G5	8	
102	A0	2	
103	G5	4	
104	F8	3	
105	A	2	
106	A0	6	
107	A0	8	
108	F5	2	

31

[[5 column table]]  
--|--|--|--|--

82	+74°	120	2	37.6	+74	7.7	7.3
83	+74°	117	2	31.4	+74	46.3	7.2
84	+74°	116	2	30.2	+74	46.3	7.2
85	+74°	111	2	23.2	+74	54.1	7.5
86	+74°	112	2	23.3	+74	44.3	7.5
87	+74°	195	4	1.7	+74	15.3	8.0
88	+74°	194	4	1.1	+74	15.7	8.2
89	+74°	196	4	2.1	+74	50.9	8.5
90	+75°	173	4	2.4	+75	44.7	6.8
91	+75°	165	3	56.3	+75	52.7	8.7
92	+75°	167	3	56.7	+75	25.6	8.5
93	+73°	215	3	54.7	+73	58.5	8.3
94	+74°	188	3	53.4	+74	15.7	8.4
95	+74°	186	3	49.9	+74	13.9	6.4
96	+74°	184	3	49.5	+74	46.8	7.8





97	+74°	204	3	39.8	+74	50.8	8.9
98	+73°	954	3	8.7	+73	38.4	6.5
99	+74°	174	3	36.8	+74	13.5	7.2
100	+74°	168	3	28.4	+74	4.2	6.8
101	+75°	143	3	22.1	+75	14.4	6.5
102	+73°	190	3	22.6	+73	58.3	8.8
103	+74°	161	3	21.9	+74	16.2	7.5
104	+74°	158	3	20.3	+74	8.0	8.2
105	+74°	154	3	16.2	+74	1.8	8.9
106	+74°	151	3	13.4	+74	44.3	7.9
107	+74°	144	3	3.6	+74	40.6	7.4
108	+74°	142	2	57.4	+74	15.0	8.5

[[right margin]] cards made out [[/right margin]]

Project PHaEDRA - Annie Jump Cannon 40  
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32  
Feb. 26, 1912  
I 37555  
[[4 column table]]  
No.	Class	Int.	Remark
109 | G2 |  
110 | F5 | 3 |  
111 | A0 | 7 |  
112 | Ma | 2 |  
113 | A0 | 3 |  
114 | A | 1 |  
115 | K | 2 |  
116 | G0 | 7 |  
117 | G5 | 4 |  
118 | F2 | 2 | Focus poor.  
119 | B9 | 5 |  
120 | G2 |  
121 | Ma | 5 |  
122 | F2 | 5 |  
123 | G3 |  
124 | K | 2 |  
125 | A | 2 |  
126 | K0 | 3 |  
127 | G5 | 3 |  
128 | G2 |  
129 | F8 | 2 |  
130 | G0 | 2 |  
131 | K | 2 |  
132 | A0 | 5 |  
133 | A | 2 |  
134 | A | 4 |  
135 | G5 | 2 |

33  
[[5 column table]]  
109 +74° 140 | 2 | 56.8 | +74 22.6 | 8.0  
110 +74° 138 | 2 | 56.3 | +74 30.5 | 8.2  
111 +75° 127 | 2 | 53.5 | +75 30.4 | 8.3  
112 +75° 124 | 2 | 51.3 | +75 13.9 | 7.4  
113 +75° 122 | 2 | 50.1 | +75 25.0 | 8.8  
114 +74° 133 | 2 | 50.0 | +74 55.0 | 9.0  
115 +75° 119 | 2 | 46.6 | +75 13.1 | 8.5  
116 +76° 101 | 2 | 42.2 | +76 29.2 | 6.8  
117 +75° 109 | 2 | 39.4 | +75 55.5 | 7.5  
118 +75° 110 | 2 | 39.6 | +75 38.9 | 8.5  
119 +75° 103 | 2 | 25.8 | +75 22.6 | 8.0  
120 +75° 102 | 2 | 23.4 | +75 53.8 | 8.7  
121 +76° 81 | 2 | 19.1 | +76 4.4 | 7.0  
122 +75° 160 | 3 | 47.4 | +75 59.6 | 7.5  
123 +75° 1 | ~~[[strikethrough]]~~ 4 | ~~[[strikethrough]]~~ 56 | 3 | 45.9 | +75 42.7 | 8.0  
124 +75° 154 | 3 | 42.7 | +75 45.1 | 8.2  
125 +76° 141 | 3 | 37.8 | +76 16.3 | 9.0  
126 +76° 137 | 3 | 34.0 | +76 9.8 | 8.2  
127 +75° 147 | 3 | 31.4 | +75 18.7 | 8.2  
128 +74° 167 | 3 | 28.1 | +74 52.9 | 8.8  
129 +75° 144 | 3 | 27.1 | +75 14.6 | 8.6  
130 +75° 141 | 3 | 19.5 | +75 13.0 | 8.4  
131 +74° 162 | 3 | 22.4 | +74 47.9 | 7.9  
132 +76° 128 | 3 | 24.0 | +76 41.2 | 7.5  
133 +76° 126 | 3 | 15.1 | +76 19.6 | 8.7

32		33	
Feb. 26, 1912		Feb. 26, 1912	
I 37555		I 37555	
[[4 column table]]		[[4 column table]]	
No.	Class	Int.	Remark
109	G2		
110	F5	3	
111	A0	7	
112	Ma	2	
113	A0	3	
114	A	1	
115	K	2	
116	G0	7	
117	G5	4	
118	F2	2	Focus poor.
119	B9	5	
120	G2		
121	Ma	5	
122	F2	5	
123	G3		
124	K	2	
125	A	2	
126	K0	3	
127	G5	3	
128	G2		
129	F8	2	
130	G0	2	
131	K	2	
132	A0	5	
133	A	2	
134	A	4	
135	G5	2	

134|+76° 125|3 14.7|+76 6.3|8.6  
135|+75° 137|3 12.0|+75 43.7|8.8  
[[right margin]]  
cards made out  
[[/right margin]]

Project PHaEDRA - Annie Jump Cannon 40  
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34

Feb. 26, 1912  
 I 37555  
 [[4 column table]]  
 No. | Class | Int. | Remark  
 136 | A0 | 5 |  
 137 | A | 2 |  
 138 | F5 | 5 |  
 139 | G | 9 |  
 140 | F0 | 8 |  
 141 | F0 | 6 |  
 142 | K0 | 3 |  
 143 | K0 | 4 |  
 144 | G5 | 2 |  
 145 | F | 2 |  
 146 | F2 | 4 |  
 147 | K | 6 | E.  
 148 | A | 4 | E.  
 149 | G5 | 5 | E.  
 150 | K0 | 4 |  
 151 | B9 | 5 |  
 152 | A2 | 3 |  
 153 | K0 | 5 |  
 154 | G | 3 |  
 155 | B8 | 4 |  
 156 | B8 | 6 |  
 157 | A2 | 4 |  
 158 | K0 | 4 |  
 159 | F5 | 2 |  
 160 | F2 | 3 |  
 161 | F5 | 5 |  
 Time: 23hrs. 16min.  
 162 | G5 | 2 |

35

[[5 column table]]  
 136 +75 131 | 3 4.5 | +75 29.2 | 8.4  
 137 +75 130 | 3 3.9 | +75 50.2 | 9.0  
 138 +76 120 | 3 3.5 | +76 30.7 | 8.2  
 139 +76 119 | 3 1.8 | +76 27.2 | 8.3  
 140 +77 115 | ~~[[strikethrough]]~~ 2 | ~~[[strikethrough]]~~ 3 2.2 | +77 10.9 | 6.2  
 141 +78 109 | 2 58.3 | +78 19.0 | 7.0  
 142 +77 111 | 2 58.2 | +77 57.0 | 7.5  
 143 +77 109 | 2 55.2 | +77 37.9 | 7.0  
 144 +77 108 | 2 52.8 | +77 49.7 | 8.0  
 145 +77 105 | 2 49.6 | +77 58.9 | 8.5  
 146 +77 104 | 2 46.5 | +77 31.4 | 8.1  
 147 +78 103 | 2 47.1 | +78 50.7 | 5.6  
 148 +78 151 | 4 0.2 | +78 38.3 | 8.2  
 149 +77 150 | 3 59.3 | +77 41.8 | 7.0  
 150 +78 146 | 3 50.6 | +78 38.3 | 7.2  
 151 +78 142 | ~~[[strikethrough]]~~ 2 | ~~[[strikethrough]]~~ 3 | 47.8 | +78 | 32.3 | 8.0  
 152 +78 143 | 3 48.6 | +78 1.5 | 8.5  
 153 +77 138 | 3 43.0 | +77 46.4 | 7.0  
 154 +76 142 | 3 38.1 | +76 58.5 | 8.2  
 155 +77 134 | 3 30.7 | +77 50.8 | 8.0  
 156 +77 133 | 3 29.0 | +77 39.1 | 7.2  
 157 +77 126 | 3 18.5 | +77 55.9 | 8.5  
 158 +77 123 | 3 12.8 | +77 30.1 | 7.1

34	35
<p>Tab. 24, 1912.</p> <p>Class. Int. Remark</p> <p>136 A0 5</p> <p>137 A 2</p> <p>138 F5 5</p> <p>139 G 9</p> <p>140 F0 8</p> <p>141 F0 6</p> <p>142 K0 3</p> <p>143 K0 4</p> <p>144 G5 2</p> <p>145 F 2</p> <p>146 F2 4</p> <p>147 K 6 E.</p> <p>148 A 4 E.</p> <p>149 G5 5 E.</p> <p>150 K0 4</p> <p>151 B9 5</p> <p>152 A2 3</p> <p>153 K0 5</p> <p>154 G 3</p> <p>155 B8 4</p> <p>156 B8 6</p> <p>157 A2 4</p> <p>158 K0 4</p> <p>159 F5 2</p> <p>160 F2 3</p> <p>161 F5 5</p> <p>Time: 23hrs. 16min.</p> <p>162 G5 2</p>	<p>136 +75 131   3 4.5   +75 29.2   8.4</p> <p>137 +75 130   3 3.9   +75 50.2   9.0</p> <p>138 +76 120   3 3.5   +76 30.7   8.2</p> <p>139 +76 119   3 1.8   +76 27.2   8.3</p> <p>140 +77 115   <del>[[strikethrough]]</del> 2   <del>[[strikethrough]]</del> 3 2.2   +77 10.9   6.2</p> <p>141 +78 109   2 58.3   +78 19.0   7.0</p> <p>142 +77 111   2 58.2   +77 57.0   7.5</p> <p>143 +77 109   2 55.2   +77 37.9   7.0</p> <p>144 +77 108   2 52.8   +77 49.7   8.0</p> <p>145 +77 105   2 49.6   +77 58.9   8.5</p> <p>146 +77 104   2 46.5   +77 31.4   8.1</p> <p>147 +78 103   2 47.1   +78 50.7   5.6</p> <p>148 +78 151   4 0.2   +78 38.3   8.2</p> <p>149 +77 150   3 59.3   +77 41.8   7.0</p> <p>150 +78 146   3 50.6   +78 38.3   7.2</p> <p>151 +78 142   <del>[[strikethrough]]</del> 2   <del>[[strikethrough]]</del> 3   47.8   +78   32.3   8.0</p> <p>152 +78 143   3 48.6   +78 1.5   8.5</p> <p>153 +77 138   3 43.0   +77 46.4   7.0</p> <p>154 +76 142   3 38.1   +76 58.5   8.2</p> <p>155 +77 134   3 30.7   +77 50.8   8.0</p> <p>156 +77 133   3 29.0   +77 39.1   7.2</p> <p>157 +77 126   3 18.5   +77 55.9   8.5</p> <p>158 +77 123   3 12.8   +77 30.1   7.1</p> <p>Transcribed by J. E. H. Good, 1912.</p>

159|+76 123|3 12.0|+76 45.5|9.0  
160|+76 121|3 11.1|+76 38.1|8.0  
161|+77 119|3 8.9|+77 57.9|7.5  
Identified by J.C.M. April 8, 1912  
Checked by A.M.C. April 15, 1912  
162|+71 171|2 36.0|+71 9|7.7

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Feb. 27, 1912  
Time: 2 hrs. 44 min I37601

[[4 column table]]  
no. | Class | Int. | Remark |  
1 | K | 2 | E.  
2 | B9 | 5 |  
3 | B9 | 8 | E.  
4 | A3 | 4 |  
5 | G2 | Another star superposed  
6 | F2 | 5 |  
7 | K0 | 3 |  
8 | A2 | 2 |  
9 | MA | ([?]) | 2 |  
10 | F8 | 3 |  
11 | F8 | 3 |  
12 | K0 | 4 |  
13 | F5 | 3 |  
14 | A1 | Partly superposed on 15 |  
15 | A3 |  
16 | G5 | 6 |  
17 | G1 |  
18 | A0 | 3 |  
19 | B9 | 10 + | Burned out  
20 | G5 | 3 |  
21 | F5 | 3 |  
22 | G5 | 3 |  
23 | B9 | 8 |  
24 | A3 | 3 | E.  
25 | B3 | 10 | E.  
26 | G5 | 3 | E.  
27 | A3 | E

37

[[5 column table]]  
no | DM | RA | Dec | mg  
1 + 11 576 | ~~3~~ | ~~0 27.8~~ | +11 57.5 | 8.5  
2 + 14 571 | 3 | 59 10.8 | +11 52.6 | 7.6  
3 + 13 648 | ~~3~~ | ~~0 56.6~~ | +13 0.8 | 6.3  
4 + 13 646 | 3 | 59 12.9 | +13 8.4 | 8.0  
5 + 13 | ~~623~~ | ~~3 58~~ | ~~27.5~~  
| ~~25.2~~ | +13 | ~~58.3~~ | ~~57.9~~ | 8.6  
6 | ~~13~~ | ~~642~~ | ~~3 58~~ | ~~25.2~~  
| ~~14.3~~ | +13 | ~~57.9~~  
| ~~0.5~~ | ~~8.6~~  
7 + 13 640 | 3 | 57 23.2 | +13 53.8 | 7.7  
8 + 12 548 | 3 | 57 5.8 | +12 54.4 | 7.7  
9 + 12 547 | 3 | 56 16.6 | +12 6.0 | 7.7  
10 | ~~13~~ | ~~621~~  
| ~~643~~ | 3 | 54 | ~~13.3~~  
58.6 | ~~13~~ | ~~35.5~~  
| ~~4.3~~ | ~~6.8~~ | ~~8.0~~  
11 | ~~14~~ | ~~643~~  
| ~~630~~ | 3 | 53 40.3 | +13 26.2 | 7.8

36					37				
Feb. 27, 1912									
No.	Class	Int.	Remark		No.	Class	Int.	Remark	
1	K	2	E.		1	F2	5		
2	B9	5			2	B9	8	E.	
3	B9	8	E.		3	B9	10		
4	A3	4			4	A3	4		
5	G2		Another star superposed		5	G2			
6	F2	5			6	F2	5		
7	K0	3			7	K0	3		
8	A2	2			8	A2	2		
9	MA	(?)	2		9	MA	(?)	2	
10	F8	3			10	F8	3		
11	F8	3			11	F8	3		
12	K0	4			12	K0	4		
13	F5	3			13	F5	3		
14	A1		Partly superposed on 15		14	A1			
15	A3				15	A3			
16	G5	6			16	G5	6		
17	G1				17	G1			
18	A0	3			18	A0	3		
19	B9	10			19	B9	10		
20	G5	3			20	G5	3		
21	F5	3			21	F5	3		
22	G5	3			22	G5	3		
23	B9	8			23	B9	8		
24	A3	3	E.		24	A3	3	E.	
25	B3	10	E.		25	B3	10	E.	
26	G5	3	E.		26	G5	3	E.	
27	A3		E		27	A3		E	

12|+13 627|3 52 30.2|+13 28.9|7.0  
 13|+13 625|3 52 9.0|+13 53.8|7.8  
 14|+13 624|3 51 22.1|+13 18.7|9.0  
 15|+13 622|3 51 20.2|+13 18.7|8.5  
 16|+13 621|3 51 13.3|+13 35.5|6.8  
 17|+12 536|3 50 31.8|+12 40.8|8.6  
 18|+12 535|3 50 4.0|+12 20.3|8.3  
 19|+12 539|3 52 40.4|+12 4.9|var.  
 20|+13 616|3 46 29.2|+13 19.7|7.5  
 21|+13 614|3 45 40.2|+13 4.7|8.0  
 22|+13 613|3 44 48.9|+13 56.5|7.5  
 23|+12 516|3 43 13.7|+12 36.5|7.0  
 24|+11 526|3 40 53.0|+11 15.4|8.6  
 25|+10 486|3 40 19.5|+10 41.4|5.2  
 26|+10 489|3 41 30.2|+10 41.7|8.2  
 27|+10 ~~487~~ 497|3 43 42.0|+10 24.8|8.3

Project PHaEDRA - Annie Jump Cannon 40  
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38

Feb. 27, 1912  
137601

[[4 column table]]

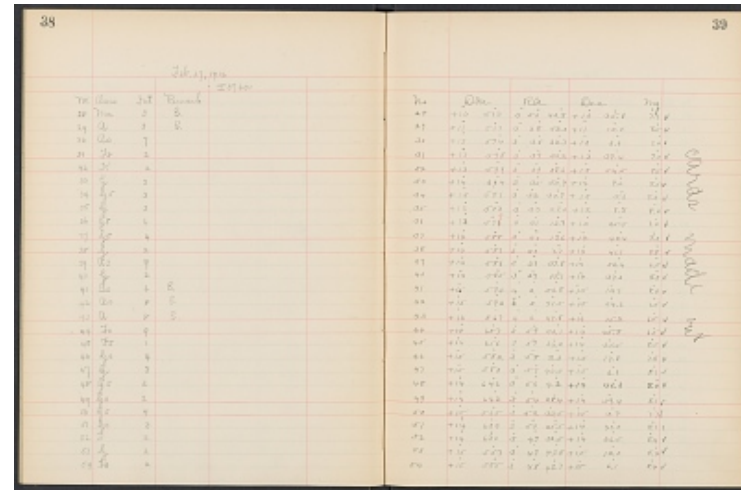
No.	Class	Int.	Remark
28	Ma	3	[[epsilon]].
29	A	3	[[epsilon]].
30	A0	7	
31	F8	2	
32	K	2	
33	G	3	
34	G5	3	
35	G	3	
36	G5	6	
37	G5	4	
38	G	2	
39	A3	9	
40	G	2	
41	A0	6	[[epsilon]].
42	A0	8	[[epsilon]].
43	A	8	[[epsilon]].
44	F0	9	
45	F5	1	
46	G0	4	
47	G	3	
48	G5	2	
49	G0	2	
50	G5	4	
51	G0	3	
52	F	2	
53	G	2	
54	F0	2	

39

Cards made out

[[5 column table]]

No.	DM.	RA.	Dec	Mg.
28	+10 513	3 50 40.8	+10 35.8	7.1
29	+11 517	3 38 52.0	+11 13.0	8.5
30	+13 594	3 38 22.7	+13 3.6	7.0
31	+13 598	3 39 33.2	+13 39.4	9.0
32	+13 599	3 39 38.6	+13 54.5	8.5
33	+14 604	3 35 53.9	+14 9.0	8.5
34	+13 581	3 32 30.9	+13 5.6	8.0
35	+12 503	3 33 28.0	+12 8.8	8.0
36	+13 579	3 31 13.9	+13 25.5	7.0
37	+14 588	3 30 19.6	+14 40.4	8.0
38	+14 587	3 30 7.7	+14 41.1	8.8
39	+14 586	3 29 39.8	+14 56.4	6.5
40	+14 585	3 29 15.1	+14 37.0	8.3
41	+15 594	4 2 56.8	+15 13.7	8.0
42	+15 592	4 2 41.5	+15 34.6	7.5
43	+16 567	4 2 47.8	+16 15.2	6.5
44	+14 657	3 59 30.1	+14 45.8	6.5
45	+14 656	3 59 24.2	+14 35.5	8.5
46	+15 582	3 58 2.0	+15 17.8	7.8





47	+15 580	3 57 43.3	+15 6.1	8.1
48	+14 646	3 56 4.2	+14 36.6	8.0
49	+14 642	3 54 28.4	+14 39.4	8.1
50	+15 565	3 52 33.5	+15 3.9	7.7
51	+14 633	3 50 25.5	+14 40.0	8.1
52	+14 630	3 49 32.5	+14 36.5	8.4
53	+15 557	3 49 47.8	+15 12.0	8.4
54	+15 555	3 48 42.7	+15 6.1	8.4

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Feb. 27, 1912

I37601

[[4 column table]]

No. | Class | Int. | Remark |

55	G	2		
56	G5	2		
57	G	2		
58	A	2		
59	F5	3		
60	F5	6		
61	A0	3		
62	F8	2		
63	F2	5		
64	K	1		
65	F0	4		
66	A0	5		
67	F8	2		
68	f0	2		
69	B9	5		
70	A0	1		
71	A0	3		
72	G5	7		
73	F	7	E	
74	A0	4		
75	K0	7		
76	B9	4		
77	G0	3		
78	G5	6		
79	G5	2		
80	F0	9		
81	B9	9		

41

Cards made out

[[5 column table]]

No	Dm	Ra	Dec	Mg
55	+14 625	3 45 53.8	+14 42.9	8.8
56	+14 624	3 45 39.5	+14 45.1	8.3
57	+15 543	3 45 4.4	+15 8.5	8.6
58	+15 541	3 44 28.8	+15 31.7	8.8
59	+15 537	3 42 2.2	+15 33.1	8.5
60	+16 514	3 40 44.1	+16 0.9	7.6
61	+15 534	3 40 30.6	+15 3.2	8.2
62	+14 613	3 40 50.2	+14 31.7	8.3
63	+16 513	3 39 45.3	+16 30.5	8.2
64	+16 512	3 39 22.0	+16 15.6	8.4
65	+15 531	3 38 8.0	+15 54.5	8.0
66	+15 529	3 37 23.4	+15 48.3	8.0
67	+15 526	3 36 3.8	+15 58.1	8.8
68	+15 525	3 35 40.8	+15 34.1	8.5
69	+15 524	3 35 10.1	+15 56.4	7.9
70	+15 522	3 34 15.2	+15 21.0	9.1
71	+15 516	3 31 49.6	+15 53.0	8.3
72	+16 484	3 31 15.2	+16 4.1	6.0
73	+18 594	4 2 19.3	+18 3.0	6.5

74	+16 561	4 0 31.4	+16 53.6	8.0
75	+16 560	3 59 41.7	+16 57.3	5.6
76	+16 559	3 59 39.5	+16 8.3	7.5
77	+17 682	3 58 25.0	+17 15.1	8.5
78	+17 676	3 56 22.6	+17 6.8	6.5
79	+18 574	3 54 49.0	+18 15.2	9.0
80	+17 666	3 52 27.7	+17 47.2	6.0
81	+16 544	3 52 20.2	+16 52.2	6.5

Project PHaEDRA - Annie Jump Cannon 40  
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42

Feb. 27, 1912  
 I 37601  
 [[4 column table]]  
 No.|Class|Int.|Remark  
 82|K|1|  
 83|F8|3|  
 84|G5|5|  
 85|F5|5|  
 86|B9|5|  
 87|G0|7|  
 88|K|1|  
 89|f0|10|  
 90|G0|5|  
 91|K|1|  
 92|F|2|  
 93|B8|2|  
 94|G0|7|  
 95|G5|8|  
 96|B9|10|  
 97|A|8|  
 98|A|4|  
 99|A|8|E  
 100|F|3|  
 101|G5|2|  
 102|A|10|E  
 103|F5|2|  
 104|K|1|  
 105|F0|2|  
 106|K|1|  
 107|F|2|  
 108|A0|5|

43

[[right margin]] cards made out [[/right margin]]  
 [[5 column table]]

No|DM|RA|Dec|Mg  
 82|+16 540|3 50 38.9|+16 29.4|9.0 [[checkmark]]  
 83|+16 538|3 50 28.2|+16 42.2|8.7 [[checkmark]]  
 84|+17 656|3 50 9.7|+17 11.2|8.0 [[checkmark]]  
 85|+18 557|3 46 45.3|+18 9.3|8.0 [[checkmark]]  
 86|+16 528|3 46 20.6|+16 54.3|8.3 [[checkmark]]  
 87|+16 527|3 46 12.5|+16 11.3|7.0 [[checkmark]]  
 88|+16 526|3 45 31.4|+16 29.3|8.4 [[checkmark]]  
 89|+16 523|3 44 53.0|+16 54.1|6.1 [[checkmark]]  
 90|+17 638|3 42 6.8|+17 2.0|8.1 [[checkmark]]  
 91|+17 632|3 41 3.6|+17 21.6|8.8 [[checkmark]]  
 92|+17 625|3 38 37.0|+17 49.5|8.8 [[checkmark]]  
 93|+18 537|3 37 42.8|+18 6.3|8.4 [[checkmark]]  
 94|+16 497|3 34 24.9|+16 49.2|7.5 [[checkmark]]  
 95|+19 582|3 35 24.5|+19 12.5|6.0 [[checkmark]]  
 96|+1[[strikethrough]] 578|3 33 57.8|+19 13.9|5.5  
 [[checkmark]]  
 97|+18 521|3 33 6.1|+18 54.8|7.8 [[checkmark]]  
 98|+18 517|3 29 50.8|+18 52.3|7.3 [[checkmark]]  
 99|+20 602|3 30 35.3|+20 26.0|6.0 [[checkmark]]

42					43				
Feb. 27, 1912									
No.	Class	Int.	Remark		No.	Class	Int.	Remark	
82	K	1			82	K	1		
83	F8	3			83	F8	3		
84	G5	5			84	G5	5		
85	F5	5			85	F5	5		
86	B9	5			86	B9	5		
87	G0	7			87	G0	7		
88	K	1			88	K	1		
89	f0	10			89	f0	10		
90	G0	5			90	G0	5		
91	K	1			91	K	1		
92	F	2			92	F	2		
93	B8	2			93	B8	2		
94	G0	7			94	G0	7		
95	G5	8			95	G5	8		
96	B9	10			96	B9	10		
97	A	8			97	A	8		
98	A	4			98	A	4		
99	A	8	E		99	A	8	E	
100	F	3			100	F	3		
101	G5	2			101	G5	2		
102	A	10	E		102	A	10	E	
103	F5	2			103	F5	2		
104	K	1			104	K	1		
105	F0	2			105	F0	2		
106	K	1			106	K	1		
107	F	2			107	F	2		
108	A0	5			108	A0	5		

100|~~8~~ 9 579|3 34 6.3|+19 40.8 8.0  
 [[checkmark]]  
 101|+20 618|3 35 11.9|+20 15.8|8.2 [[checkmark]]  
 102|+20 621|3 36 3.4|+20 28.0|6.2 [[checkmark]]  
 103|+18 562|3 48 40.8|+18 25.0|8.5 [[checkmark]]  
 104|+18 560|3 47 47.1|+18 49.1|8.7 [[checkmark]]  
 105|+17 65~~3~~ 4|3 46 35.4|+17 55.4|8.8  
 [[checkmark]]  
 106|+18 553|3 45 59.3|+18 11.1|8.5 [[checkmark]]  
 107|+17 645|3 44 40.6|+17 34.7|9.0 [[checkmark]]  
 108|+18 550|3 44 3.2|+18 9.2|7.9 [[checkmark]]

Project PHaEDRA - Annie Jump Cannon 40  
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44

Feb. 27 1912  
137601

[[4 column table]]  
No.[Class]Int.[Remark]

---|---|---|---  
109|A0|5|  
110|K|1|  
111|F0|2|  
112|K|1|  
113|F|2|  
114|A|2|  
115|K|3|E.  
116|F5|2|E.  
117|A5|3|E.  
118|A0|4|E.  
Time: 22hrs.|13 min.

119|2|G5|  
120|2|K5|  
121|3|A2|  
122|1|A0|

45

[[5 column table]]  
No|DM|RA|Dec|Mg|

---|---|---|---|---  
109|+18 549|3 43 57.1|+18 29.6|7.9  
110|+19 606|3 44 13.0|+19 10.8|8.5  
111|+18 546|3 42 2.2|+18 48.5|8.1  
112|+19 600|3 41 32.2|+19 7.7|8.2  
113|+19 586|3 36 30.7|+19 22.6|8.3  
114|+19 625|3 48 27.8|+19 38.9|8.5  
115|+20 664|3 47 39.2|+20 21.8|8.2  
116|+20 638|3 40 34.1|+20 52.6|8.0  
117|+20 637|3 39 43.9|+20 54.5|8.2  
119|+20 624|3 37 5.2|+20 47.3|8.0  
Identified by C.L.A Mar. 7, 1912  
Checked by A.M.C. Mar. 15, 1912

119|+17 601|3 31.2|+17 55 |8.3|13 on I 37373  
120|+18 507|3 27.0|+18 26|7.0|7 on I 37373  
121|+19° 647|3 53.5|+19 31|8.5|30 on I 37417  
122|+19° 652|3 55.7|+19 35|8.5|31 on I 37417

44					45				
Feb. 27 1912									
No.	Class	Int.	Remark		No.	Class	Int.	Remark	
109	A0	5			109	A0	5		
110	K	1			110	K	1		
111	F0	2			111	F0	2		
112	K	1			112	K	1		
113	F	2			113	F	2		
114	A	2			114	A	2		
115	K	3	E.		115	K	3	E.	
116	F5	2	E.		116	F5	2	E.	
117	A5	3	E.		117	A5	3	E.	
118	A0	4	E.		118	A0	4	E.	
Time: 22 hrs.	13 min.								
119	2	G5			119	2	G5		
120	2	K5			120	2	K5		
121	3	A2			121	3	A2		
122	1	A0			122	1	A0		

Project PHaEDRA - Annie Jump Cannon 40  
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46

Feb. 27, 1912  
Time: 22hrs 22min. 137589

[[4 column table]]

No. | Class | Int. | Remark

1 | F5 | 5 | E.

2 | A | 3 | E. Film defective

3 | B8 | 6 |

4 | K | 2 |

5 | A5 | 10 |

6 | G | 2 |

7 | F8 | 5 |

8 | K | 9 |

9 | F | 2 |

10 | G5 | 1 |

11 | B8 | 10 |

12 | G | 2 | Partly superposed on 13

13 | G | 2 | Partly superposed on 12

14 | K | 4 | Partly superposed on 15 Compos. sp. Br.=K5 Ft.=A

15 | A2 | 3 |

16 | F8 | 5 |

17 | F8 | 6 |

18 | A0 | 10 | Line 4128-31 strong.

19 | F5 | 1 |

20 | B9 | 9 |

21 | F5 | 3 |

22 | F0 | 8 |

23 | A3 | 10 | Line 4077 strong

24 | Y0 | 3 |

25 | F5 | 5 |

26 | F5 | 3 |

27 | F | 1 |

47

[[5 column table]]

1 +21 657 | 4 23.5 | +21 19.2 | 8.0

2 +20 767 | 4 21.6 | +20 39.8 | 8.7

3 +20 761 | 4 20.2 | +20 20.9 | 8.3

4 +21 652 | 4 20.4 | +21 34.5 | 8.8

5 +21 647 | 4 19.4 | +21 17.1 | 6.5

6 +20 756 | 4 18.6 | +20 40.0 | 8.6

7 +21 644 | 4 17.7 | +21 8.3 | 7.5

8 +20 754 | 4 17.2 | +20 48.8 | 8.6

9 +19 716 | 4 16.5 | +19 42.6 | 9.0

10 +19 714 | 4 15.9 | +19 38.4 | 9.1

11 +20 751 | 4 15.0 | +20 37.9 | 6.2

12 +20 748 | 4 14.8 | +20 50.8 | 9.0

13 +21 635 | 4 14.8 | +21 1.9 | 8.9 |

14 +20 744 | 4 13.9 | +20 28.3 | 6.5 Only one star here on chart plate I

24323

15 | ? |

16 +20 741 | 4 13.1 | +20 50.3 | 7.2

17 +20 740 | 4 13.0 | +20 42.2 | 7.0

18 +21 623 | 4 11.1 | +21 26.8 | 5.8

19 +20 735 | 4 11.0 | +20 41.7 | 9.0

20	+20 733	4 10.9	+20 47.7	6.2
21	+20 731	4 10.5	+20 57.0	8.8
22	+21 618	4 9.8	+21 13.3	6.0
23	+20 724	4 8.8	+20 13.6	5.7
24	+20 721	4 7.2	+20 26.9	8.1
25	+22 670	4 9.6	+22 26.6	7.5
26	+21 617	4 9.2	+21 59.2	8.2
27	+21 616	4 9.0	+21 54.8	9.0

Checked by A.M.C. April 15, 1912

Project PHaEDRA - Annie Jump Cannon 40  
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48

Feb. 27, 1912

137589

[[4 column table]]

No. | Class | Int. | Remark |

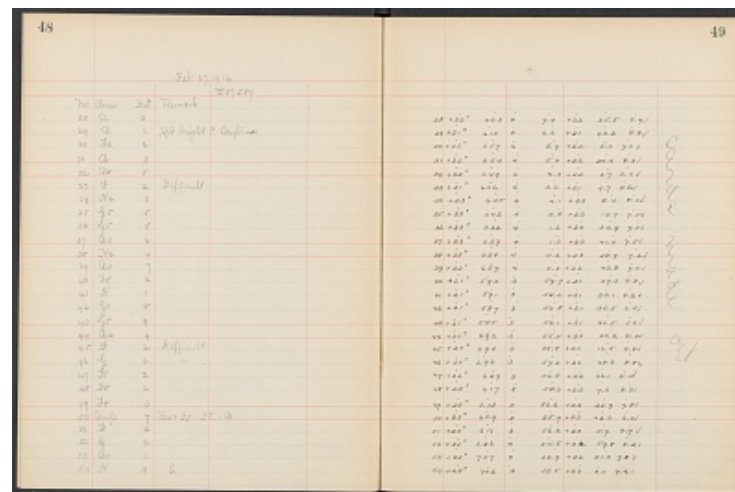
28	A	3	
29	A	2	HB bright? Confirm.
30	F2	6	
31	A	3	
32	B8	8	
33	F	2	Difficult
34	K2	3	
35	G5	5	
36	G5	5	
37	A3	6	
38	K2	4	
39	A3	7	
40	F5	2	
41	K	1	
42	G0	8	
43	G5	9	
44	A0	4	
45	F	2	Difficult
46	G	2	
47	K	2	
48	F8	2	
49	F8	3	
50	Comp.	7	Br = F5 Ft = A
51	F	2	
52	G	2	
53	A0	6	
54	K	3	E.

49

Cards made out

[[5 column table]]

28	+22°	663	4	7.4	+22°	35.5	8.9
29	+21°	610	4	6.6	+21°	43.2	8.8
30	+22°	657	4	5.9	+22°	5.0	7.0
31	+22°	654	4	5.4	+22°	20.4	8.3
32	+22°	649	4	4.3	+22°	2.7	6.0
33	+21°	606	4	3.6	+21°	9.7	8.6
34	+23°	645	4	4.1	+23°	8.4	8.0
35	+23°	642	4	3.8	+23°	12.7	7.5
36	+23°	632	4	1.6	+23°	34.9	7.5
37	+23°	627	4	1.0	+23°	41.4	7.5
38	+23°	624	4	0.2	+23°	28.9	7.2
39	+22°	637	4	0.3	+22°	43.8	7.0
40	+21°	593	3	59.7	+21°	37.3	8.8
41	+21°	591	3	58.0	+21°	33.1	8.2
42	+21°	587	3	56.8	+21°	35.5	6.5
43	+21°	585	3	56.1	+21°	40.5	5.0
44	+20°	692	3	55.5	+20°	40.2	8.0
45	+20°	694	3	55.8	+20°	16.5	8.8
46	+20°	696	3	57.2	+20°	48.6	8.8
47	+22°	629	3	56.8	+22°	46.1	8.3
48	+23°	617	3	58.0	+23°	7.0	8.7



49	+23°	613 3	56.6 +23°	22.9  7.8
50	+23°	609 3	55.7 +23°	42.6  6.0
51	+23°	611 3	56.2 +23°	5.9  8.7
52	+22°	626 3	55.5 +22°	59.8  8.2
53	+22°	707 4	22.9 +22°	31.4  7.8
54	+23°	702 4	22.5 +23°	2.0  7.4

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50

Feb. 27, 1912

137589

[[4 column table]]

No. | Class | Int. | Remark |

55	A	5	E	
56	B8	10	Burned Out	
57	A5	2	E	
58	F	10		
59	f0	8		
60	A2	10		
61	F5	5		
62	A	2		
63	F2	4		
64	Ma	3		
65	K	1		
66	G5	4		
67	A0	6		
68	G	3		
69	G	10+		
70	K	2		
71	Mb	3		
72	A	3		
73	G5	4		
74	K0	6		
75	A	5		
76	B8	8		
77	F5	6		
78	A	10	E.	
79	A	3	E.	
80	G	6	E.	
81	K	3	E.	

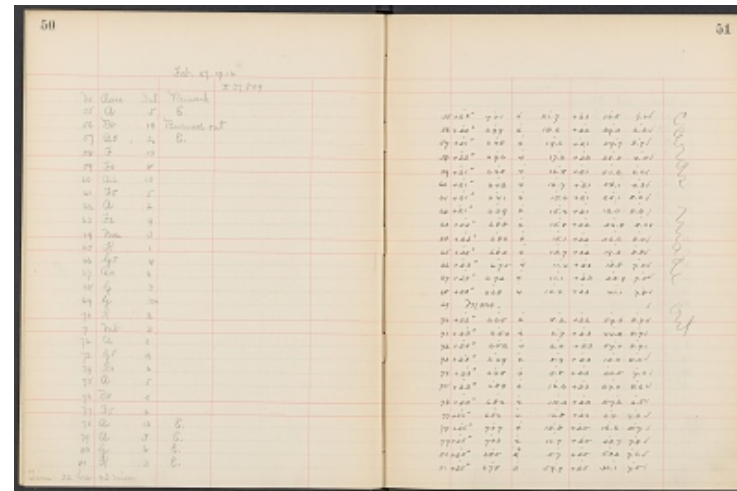
Time: 22 hrs 43 min.

51

Cards made out

[[5 column table]]

55	+23° 701	4 21.7	+23 16.5	7.0
56	+22° 699	4 18.6	+22 39.3	6.2
57	+21° 648	4 19.6	+21 59.7	8.7
58	+22° 696	4 17.6	+22 28.3	4.5
59	+22° 643	4 16.8	+21 51.6	6.0
60	+21° 642	4 16.7	+21 58.1	4.3
61	+21° 641	4 15.6	+21 23.1	8.0
62	+21° 639	4 15.4	+21 12.0	8.6
63	+22° 688	4 15.8	+22 24.8	8.0
64	+22° 686	4 15.1	+22 36.6	8.0
65	+22° 683	4 13.7	+22 19.3	8.8
66	+23° 675	4 11.4	+23 13.8	7.5
67	+23° 672	4 11.1	+23 23.9	7.5
68	+23° 668	4 10.4	+23 41.1	7.8
69	Mars			
70	+22° 665	4 8.2	+22 59.3	8.7
71	+23° 654	4 6.7	+23 44.2	8.7
72	+23° 652	4 6.4	+23 57.0	8.9
73	+23° 649	4 5.9	+23 13.0	8.0
74	+23° 648	4 5.8	+23 20.5	7.0
75	+23° 688	4 16.6	+23 27.4	8.6
76	+23° 684	4 15.3	+23 57.6	6.5



77	+24° 654	4 14.8	+24 3.8	7.3
78	+25° 707	4 13.8	+25 16.6	5.7
79	+25° 703	4 11.7	+25 28.7	7.8
80	+25° 685	4 5.7	+25 53.2	7.6
81	+25° 678	3 59.9	+25 30.1	7.5

Project PHaEDRA - Annie Jump Cannon 40  
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Feb. 28, 1912  
Time: 22 hrs 0 min. 137599

[[4 column table]]

No.	Class	Int.	Remark
1	G5	5	E.

2 | F8 | 6 | E. |

3 | G | 3 | |

4 | F5 | 3 | |

5 | K | 8 | Focus poor. |

6 | K | 2 | |

7 | A2 | 6 | |

8 | K0 | 2 | |

9 | K0 | 4 | |

10 | K0 | 8 | |

11 | K | 2 | |

12 | F5 | 8 | |

13 | A5 | 8 | E. |

14 | F0 | 5 | |

15 | K | 10 | |

16 | K | 3 | |

17 | K0 | 4 | |

18 | G5 | 2 | |

19 | F5 | 2 | |

20 | K2 | 10 | |

21 | A2 | 6 | |

52				53			
Feb. 28, 1912				Feb. 28, 1912			
1	G5	5	E.	1	F8	6	E.
2	F8	6	E.	2	G	3	
3	G	3		3	F5	3	
4	F5	3		4	K	8	Focus poor.
5	K	8	Focus poor.	5	K	2	
6	K	2		6	A2	6	
7	A2	6		7	K0	2	
8	K0	2		8	K0	4	
9	K0	4		9	K0	8	
10	K0	8		10	K	2	
11	K	2		11	F5	8	
12	F5	8		12	A5	8	E.
13	A5	8	E.	13	F0	5	
14	F0	5		14	K	10	
15	K	10		15	K	3	
16	K	3		16	K0	4	
17	K0	4		17	G5	2	
18	G5	2		18	F5	2	
19	F5	2		19	K2	10	
20	K2	10		20	A2	6	
21	A2	6					

22 | F2 | 2 | |

23 | K2 | 3 | |

24 | K | 2 | |

25 | F0 | 6 | |

26 | F5 | 3 | |

27 | A3 | 9 | |

53

[[8 column table]]

1 | +77° | 565 | 15 ~~[[strikethrough]]~~ 14 ~~[[\strikethrough]]~~ | 1.0 | +77 | 6.4 |  
7.7 |

2 | +77° | 571 | 15 | 7.4 | +77 | 54.8 | 7.8 |

3 | +78° | 498 | 14 | 54.4 | +78 | 0.2 | 8.0 |

4 | +78° | 497 | 14 | 53.9 | +78 | 4.6 | 8.4 |

5 | +78° | 501 | 14 | 56.6 | +78 | 45.2 | 6.5 |

6 | +79° | 457 | 14 | 57.3 | +79 | 20.2 | 9.1 |

7 | +80° | 459 | 14 | 59.2 | +80 | 6.6 | 8.2 |

8 | +80° | 452 | 14 | 47.6 | +80 | 23.5 | 8.5 |

9 | +80° | 451 | 14 | 43.5 | +80 | 23.0 | 7.0 |

10 | +80° | 448 | 14 | 37.8 | +80 | 17.0 | 6.3 |

11 | +79° | 450 | 14 | 39.3 | +79 | 46.6 | 8.7 |

12 | +79° | 447 | 14 | 29.1 | +79 | 9.3 | 6.8 |

13 | +76° | 536 | 14 | 48.6 | +76 | 40.0 | 7.5 |

14 | +77° | 548 | 14 | 32.2 | +77 | 11.9 | 8.2 |

15 | +76° | 527 | 14 | 27.8 | +76 | 20.9 | 5.0 |

16 | +75° | 532 | 14 | 21.2 | +75 | 43.3 | 7.5 |  
 17 | +76° | 520 | 14 | 18.6 | +76 | 19.9 | 7.8 |  
 18 | +77° | 541 | 14 | 23.6 | +77 | 20.1 | 8.9 |  
 19 | +77° | 540 | 14 | 20.4 | +77 | 21.8 | 8.5 |  
 20 | +78° | 478 | 14 | 9.5 | +78 | 13.9 | 5.0 |  
 21 | +77° | 529 | 14 | 5.4 | +77 | 40.4 | 7.8 |  
 22 | +77° | 528 | 14 | 4.2 | +77 | 22.3 | 9.0 |  
 23 | +77° | 523 | 13 | 54.3 | +77 | 12.1 | 7.3 |  
 24 | +76° | 504 | 13 | 53.8 | +76 | 58.4 | 8.3 |  
 25 | +76° | 502 | 13 | 48.0 | +76 | 17.3 | 7.0 |  
 26 | +76° | 500 | 13 | 45.9 | +76 | 16.9 | 7.5 |  
 27 | +75° | 529 | 14 | 5.8 | +75 | 16.8 | 6.7 |

[[right margin]]  
 cards made out  
 [[\right margin]]

Project PHaEDRA - Annie Jump Cannon 40  
 Transcribed and Reviewed by Digital Volunteers  
 Extracted Dec-02-2022 11:31:25

54

Feb. 28, 1912

137599

[[4 column table]]

No. | Class | Int. | Remark |

28 | K0 | 3 | | |

29 | G | 2 | [[epsilon].] | |

30 | K | 4 | [[epsilon].] | |

31 | F5 | 4 | [[epsilon].] | |

32 | G5 | 3 | | |

33 | A0 | 6 | | |

34 | G5 | 6 | | |

35 | G5 | 4 | | |

36 | K5 | 7 | | |

37 | A5 | 10 | | |

38 | F2 | 4 | | |

39 | G5 | 10 | | |

40 | G5 | 6 | | |

41 | G5 | 4 | [[strikeout]] | |

42 | A5 | 4 | | |

43 | F2 | 5 | | |

44 | K | 3 | | |

45 | G5 | 6 | | |

46 | G | 4 | [[E]] | |

47 | F5 | 7 | [[E]] | |

48 | K | 3 | | |

49 | G | 10 | Burned Out |

50 | A0 | 8 | | |

51 | [[strikeout]] F5 | 7 | IE |

52 | G5 | 2 | | |

53 | F2 | 3 | | |

54 | G5 | 7 | | |

55

cards made out

[[5 column table]]

28 | +75° 527 | 14 | 4.3 | +75 24.5 | 7.5 |

29 | +75° 526 | 14 | 3.8 | +75 15.6 | 8.4 |

30 | +75° 516 | 13 | 39.7 | +75 21.6 | 8.0 |

31 | +75° 514 | 13 | 39.0 | +75 11.9 | 8.5 |

32 | +76° 493 | 13 | 34.4 | +76 39.5 | 7.8 |

33 | +76° 492 | 13 | 31.9 | +76 31.2 | 7.0 |

34 | +76° 491 | 13 | 30.5 | +76 48.8 | 6.7 |

35 | +77° 515 | 13 | 32.0 | +77 2.4 | 7.5 |

36 | +77° 516 | 13 | 32.8 | +77 17.7 | 6.0 |

37 | +77° 519 | 13 | 39.3 | +77 34.0 | 6.2 |

38 | +78° 464 | 13 | 36.9 | +78 37.7 | 8.0 |

39 | +78° 466 | 13 | 42.1 | +78 47.4 | 5.8 |

40 | +79° 431 | 13 | 50.6 | +79 42.8 | 6.6 |

41 | +79° 434 | 13 | 55.5 | +79 40.7 | 7.7 |

42 | +79° 435 | 13 | 56.5 | +79 23.9 | 8.1 |

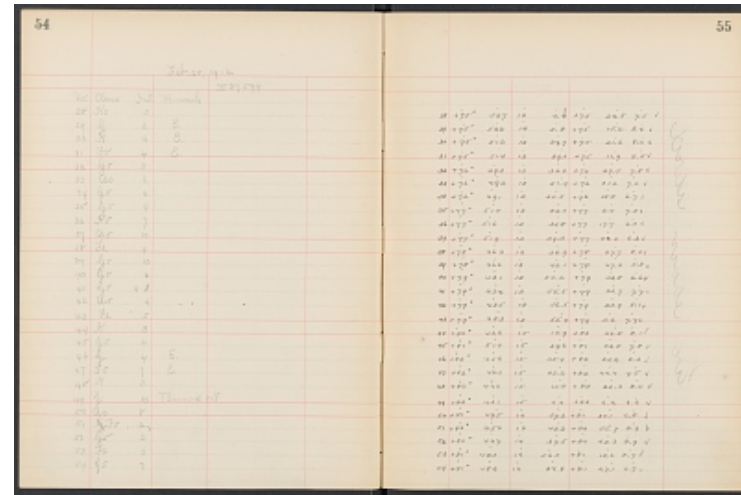
43 | +75° 433 | 13 | 55.4 | +79 5.6 | 7.7 |

44 | +80° 466 | 15 | 15.9 | +80 44.8 | 8.1 |

45 | +81° 510 | 15 | 29.6 | +81 32.8 | 7.8 |

46 | +82° 456 | 15 | 35.4 | +82 23.2 | 8.2 |

47 | +82° 463 | 15 | 42.2 | +82 44.4 | 7.5 |





48	+83° 440 15	15.8 +83	22.3	8.5
49	+83° 431 15	0.4 +83	6.2	6.0
50	+81° 495 14	57.2 +81	20.1	6.8
51	+80° 450 14	42.2 +80	55.7	8.9
52	+80° 447 14	37.5 +80	42.3	8.9
53	+81° 483 14	36.0 +81	12.0	8.7
54	+81° 482 14	34.8 +81	27.1	6.7

Project PHaEDRA - Annie Jump Cannon 40  
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Feb. 28, 1912  
137599

[4 column table]

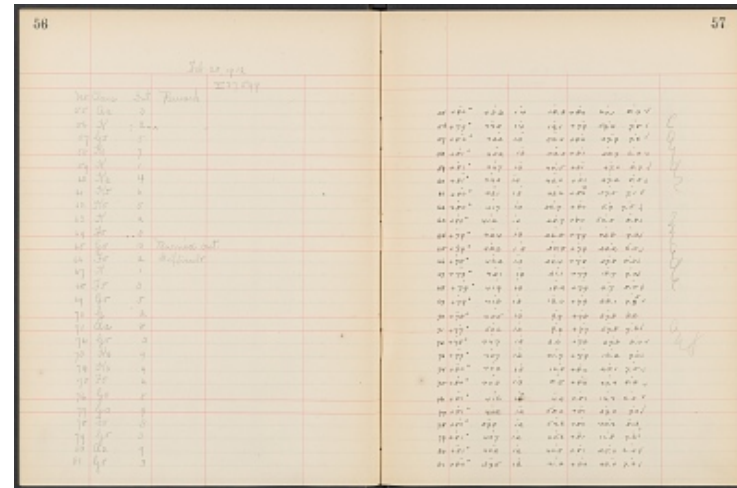
No.	Class	Int.	Remark
55	A2	3	
56	K	2	
57	G5	5	
58	K0	7	
59	K	1	
60	K2	4	
61	K5	6	
62	K5	5	
63	K	2	
64	F5	3	
65	G5	10	Burned out.
66	F5	2	Difficult
67	K	1	
68	F5	3	
69	G5	5	
70	G	2	
71	A2	8	
72	G5	3	
73	K0	4	
74	K0	4	
75	F5	2	
76	G5	8	
77	G0	4	
78	F5	3	
79	G5	3	
80	A2	9	
81	G5	3	

57

[Side of page] Cards made out

[5 column table]

55	+80°	432	14	18.8	+80	40.1	8.3
56	+79°	443	14	19.1	+79	59.4	7.8
57	+80°	422	13	50.3	+80	37.9	7.4
58	+81°	452	13	53.3	+81	28.9	6.8
59	+81°	447	13	44.5	+81	27.0	8.9
60	+81°	443	13	42.0	+81	47.2	8.5
61	+80°	421	13	42.6	+80	57.5	7.1
62	+80°	417	13	36.7	+80	5.9	7.5
63	+80°	412	13	28.7	+80	50.5	8.8
64	+79°	424	13	26.8	+79	42.8	9.3
65	+79°	422	13	25.8	+79	23.2	6.0
66	+78°	462	13	24.4	+78	27.8	8.3
67	+79°	421	13	21.1	+79	18.7	9.0
68	+79°	419	13	18.2	+79	4.7	8.5
69	+79°	418	13	13.0	+79	28.1	7.5
70	+78°	455	13	9.9	+78	37.8	8.8
71	+77°	506	13	9.4	+77	57.8	7.6
72	+78°	447	13	2.6	+78	27.8	8.0
73	+79°	407	12	51.7	+79	16.2	7.0
74	+80°	404	13	10.8	+80	25.1	7.0
75	+80°	403	13	8.5	+80	47.4	8.8
76	+81°	416	13	11.2	+81	14.4	6.3



77 +81°	412 12	58.0 +81	39.4 7.0
78 +80°	398 12	54.6 +80	43.4 8.3
79 +81°	407 12	45.6 +81	11.8 7.6
80 +81°	402 12	40.8 +81	25.0 6.3
81 +80°	395 12	41.2 +80	43.0 7.4

Project PHaEDRA - Annie Jump Cannon 40  
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58

Feb. 28, 1912

I 37599

[[4 column table]]

No. | Class | Int. | Remark |

82 | F5? | 2 | Focus poor |

83 | F2 | 5 | |

84 | G5 | 3 | |

85 | A2 | 4 | |

86 | G5 | 3 | |

87 | A0 | 4 | |

88 | G5 | 9 | |

89 | G5 | 6 | |

90 | B8 | 3 | Difficult |

91 | A5 | 4 | |

92 | F5 | 4 | |

93 | A0 | 4 | E |

94 | K | 5 | E |

95 | F | 2 | E |

Time 22 hrs 21 min.

96 K0 2

59

Cards made out

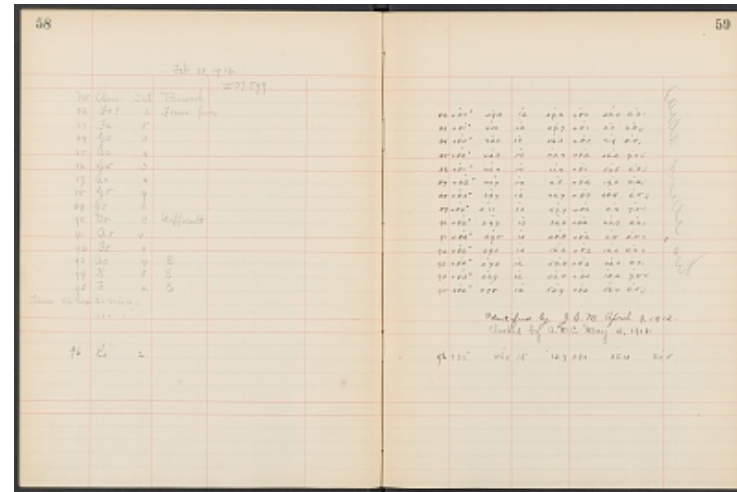
[[5 column table]]

82	+80	393	12	39.4	+80	23.4	8.3	[check]
83	+81	400	12	29.7	+81	3.0	6.8	[check]
84	+83	423	14	46.0	+83	4.9	8.5	[check]
85	+82	423	14	33.4	+82	36.2	9.0	[check]
86	+81	464	14	11.4	+81	50.5	8.8	[check]
88	+83	397	13	46.7	+83	28.8	6.5	[check]
89	+84	311	13	27.9	+84	3.4	7.5	[check]
90	+82	397	13	32.8	+82	0.8	8.5	[check]
92	+82	395	12	28.8	+82	16.0	8.4	[check]
93	+83	373	12	58.8	+83	43.0	8.3	[check]
94	+83	369	12	52.8	+83	18.2	7.5	[check]
95	+82	378	12	52.9	+82	56.4	8.5	[check]

Identified by J.G.M. April 9, 1912.

Checked by A.M.C. May 4, 1912

96 | +80 465 | 15 12.9 | +80 35.4 | 8.0



Project PHaEDRA - Annie Jump Cannon 40  
Transcribed and Reviewed by Digital Volunteers  
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Feb. 28, 1912  
Time: 22 hrs 22 min. l37600 long

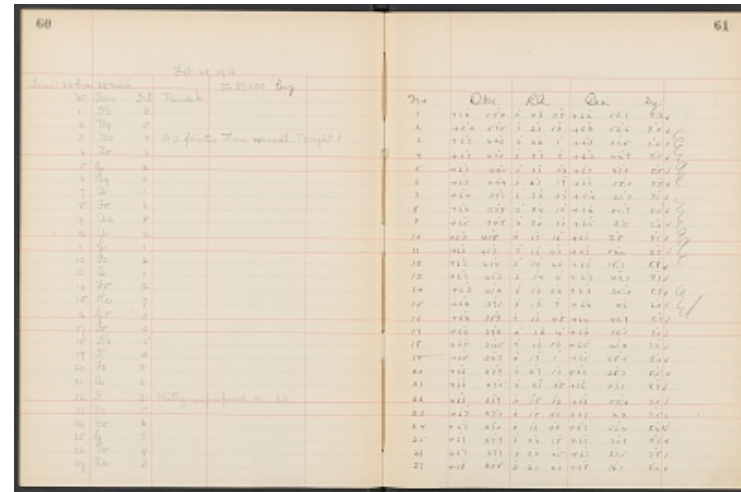
[[4 column table]]

No.	Class	Int.	Remark
1	K0	3	---
2	B9	5	---
3	B3	6	HB fainter than normal. Bright?
4	B8	4	---
5	G	2	---
6	B9	3	---
7	A	1	---
8	F8	6	---
9	A2	8	---
10	A	2	---
11	G	1	---
12	F0	2	---
13	A	1	---
14	F5	2	---
15	K2	7	---
16	G5	3	---
17	F8	3	---
18	K0	5	---
19	K	3	---
20	F0	2	---
21	A	2	---
22	K	3	Partly superposed on 23
23	F0	5	---
24	B8	6	---
25	G	3	---
26	F8	4	---
27	A2	3	---

61

[[5 column table]]

No.	DM.	RA.	Dec.	Mg.
1	+62 582	3 23 39	+62 50.1	8.2
2	+62 575	3 21 19	+62 56.6	9.0
3	+63 426	3 22 1	+63 23.5	7.5
4	+63 430	3 23 9	+63 44.9	8.5
5	+63 425	3 21 34	+63 47.0	8.5
6	+63 424	3 21 19	+63 58.0	8.8
7	+64 397	3 22 33	+64 21.3	9.1
8	+64 398	3 24 10	+64 51.9	8.5
9	+65 348	3 20 30	+65 2.5	7.0
10	+63 418	3 17 16	+63 9.8	9.1
11	+63 417	3 16 43	+63 54.4	8.8
12	+63 414	3 14 40	+63 18.1	8.8
13	+63 413	3 14 4	+63 43.7	9.1
14	+63 412	3 13 34	+63 25.0	8.9
15	+64 391	3 12 9	+64 3.6	6.0
16	+64 389	3 11 48	+64 42.9	8.3
17	+64 390	3 12 4	+64 56.1	9.0
18	+65 345	3 13 53	+65 41.2	7.0
19	+65 347	3 19 1	+65 48.5	8.0
20	+66 279	3 27 13	+66 28.7	8.5



21	+66 275	3 21 28	+66 47.1	8.9
22	+66 269	3 18 34	+66 55.0	7.5
23	+67 273	3 18 33	+67 4.2	7.5
24	+67 270	3 16 33	+67 56.4	8.4
25	+67 279	3 24 18	+67 30.9	8.0
26	+67 277	3 22 45	+67 27.5	7.8
27	+68 258	3 21 20	+68 16.7	8.4

Project PHaEDRA - Annie Jump Cannon 40  
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62

Feb. 28, 1912  
137600

[[4 column table]]

No. | Class | Int. | Remark |

28| G5 | 2 | |

29| G | 3 | |

30| K0 | 5 | |

31| A0 | 7 | |

32| F5 | 6 | |

33| A0 | 8 | |

34| A | 5 | E. |

35| A | 6 | E. |

[[~~36~~ Tess ~~36~~]] ~~36~~ | G | 2 | Focus very poor |

37| K | 1 | |

38| Comp. | 9 | Br = F5 Ft ~~38~~ = A. K band = 0.1 of H. |

Time: 22 hrs | 32 min. | | |

39| G5 | 1 | |

40| B9 | 2 | Another star super. at ~~40~~ |

41| B9 | 2 | |

42| A | 1 | Another star super.? |

43| K0 | 2 | |

44| K0 | 1 | Partly super on 43 |

45| A0 | 2 | |

46| A2 | 2 | |

62	63
Feb. 28, 1912 137600	
No.   Class   Int.   Remark	No.   Class   Int.   Remark
28   G5   2	28   G5   2
29   G   3	29   G   3
30   K0   5	30   K0   5
31   A0   7	31   A0   7
32   F5   6	32   F5   6
33   A0   8	33   A0   8
34   A   5   E.	34   A   5   E.
35   A   6   E.	35   A   6   E.
36   <del>G</del>   2   <del>Focus very poor</del>	36   <del>G</del>   2   <del>Focus very poor</del>
37   K   1	37   K   1
38   Comp.   9   Br = F5 Ft <del>38</del> = A. K band = 0.1 of H.	38   Comp.   9   Br = F5 Ft <del>38</del> = A. K band = 0.1 of H.
39   G5   1	39   G5   1
40   B9   2   Another star super. at <del>40</del>	40   B9   2   Another star super. at <del>40</del>
41   B9   2	41   B9   2
42   A   1   Another star super.?	42   A   1   Another star super.?
43   K0   2	43   K0   2
44   K0   1   Partly super on 43	44   K0   1   Partly super on 43
45   A0   2	45   A0   2
46   A2   2	46   A2   2

47| G0 | 1 | |

48| K0 | 1 | |

49| A0 | 1 | |

50| G5 | 1 | |

51| | | |

cont. B 131, 38

63

[[5 column table]]

No.| DM | RA | Dec. | Mg. |

28	+68 257	3 19 51	+68 16.0	8.5
29	+68 242	3 12 5	+68 38.4	8.0
30	+67 256	3 7 25	+67 55.9	7.5
31	+68 250	3 15 25	+68 57.4	7.3
32	+68 249	3 14 59	+68 45.6	7.0
33	+69 205	3 6 16	+69 11.7	6.5
34	+68 230	3 3 51	+68 54.4	8.0
35	+69 203	3 2 49	+69 26.2	7.7
36	+68 280	3 34 49	+68 44.6	8.0
37	+68 273	3 30 41	+68 21.4	8.3
38	+62 604	3 33 24	+62 53.1	5.3

Identified by C.R.A. April 1, 1912.

Checked by J.C.M. April 5, 1912

39	+63° 391	2 55.6	+63 53.1	9.0
40	+63° 402	3 1.2	+63 2.4	8.8
41	+62° 533	3 0.9	+62 38.8	9.0
42	+64° 381	3 5.0	+64 9.7	9.3
43	+64° 385	3 9.3	+64 35.4	8.5
44	+64° 386	3 9.4	+64 29.3	9.0
45	+64° 387	3 9.6	+64 46.3	8.7
46	+62° 544	3 7.2	+62 49.6	8.8
47	+65° 346	3 16.0	+65 17.3	8.8
48	+68° 253	3 17.4	+68 13.6	9.2
49	+68° 256	3 18.8	+68 12.2	8.9
50	+67° 237	2 46.5	+67 0.9	9.0

[[right margin]]

cards made out

+62° 535 super. Magn. 9.1

[[\right margin]]

Identification compared by G.R.B.

Identified on cards by JCM. March 12, 1914.



Identified in Book by A.M.C. March 17, 1914

Project PHaEDRA - Annie Jump Cannon 40  
Transcribed and Reviewed by Digital Volunteers  
Extracted Dec-02-2022 11:31:25

Feb. 28, 1912

Time : 22 hrs | 33 min. | I137309

No. | Class | Int. | Remark.

1	G5	8	Focus poor
2	A0	6	
3	K0	8	
4	F8	4	
5	K	2	
6	A	3	
7	A	4	
8	K	10	Burned out. Ko on I37281. to be adopted
9	A	4	
10	F8	8	
11	K2	5	
12	A0	7	E.
13	G	4	
14	F5	4	
15	G	3	
16	F8	5	
17	G5	3	
18	K5	3	
19	F8	2	
20	K0	8	
21	K	2	
22	G5	5	
23	K0	4	
24	A0	8	
25	K5	1	Difficult
26	K	2	
27	A	4	

64		65	
Feb. 28, 1912		Feb. 28, 1912	
No.	Class	No.	Class
1	G5	1	G5
2	A0	2	A0
3	K0	3	K0
4	F8	4	F8
5	K	5	K
6	A	6	A
7	A	7	A
8	K	8	K
9	A	9	A
10	F8	10	F8
11	K2	11	K2
12	A0	12	A0
13	G	13	G
14	F5	14	F5
15	G	15	G
16	F8	16	F8
17	G5	17	G5
18	K5	18	K5
19	F8	19	F8
20	K0	20	K0
21	K	21	K
22	G5	22	G5
23	K0	23	K0
24	A0	24	A0
25	K5	25	K5
26	K	26	K
27	A	27	A

65

[[5 column table]]

[[single dot over every number except for the first column]]

No.	DM.	Ra.	Dec.	Mg.
1	+82	51	1 55 5	+82 52.5   7.0
2	+83	54	2 3 4	+83 0.3   8.9
3	+83	56	2 13 16	+83 11.0   8.0
4	+82	59	2 20 51	+82 30.5   9.0
5	+83	60	2 23 39	+83 14.8   9.0
6	+83	62	2 25 36	+83 38.2   9.0
7	+84	48	2 36 41	+84 2.5   9.2
8	+84	59	2 58 48	+84 23.1   6.0
9	+84	69	3 28 8	+84 13.1   8.8
10	+85	63	3 52 25	+85 9.9   6.5
11	+84	78	3 58 4	+84 7.2   7.5
12	+84	88	4 21 14	+84 36.0   7.7
13	+83	79	3 0 6	+83 30.5   8.2
14	+82	55	2 13 33	+82 21.4   8.7
15	+82	60	2 23 9	+82 12.3   9.2
16	+81	95	2 32 54	+82 47.3   8.6
17	+81	96	2 34 44	+81 14.3   8.5
18	+80	80	2 17 11	+80 58.5   8.4
19	+8	88	2 24	2.7   9.1
46	+8	88	2 24	2.7   9.1

20	+80	86		2	27	10		+80	49.8		5.9	
21	+81	90		2	26	32		+81	14.5		8.5	
22	+80	89		2	37	51		+80	27.9		8.0	
23	+80	90		2	38	55		+80	4.3		8.3	
24	+79							<del>55</del>	<del>86</del>		2	36
4	<del></del>							<del>2</del>	<del></del>		+79	29. <del>5</del>
8.6	<del></del>										0	7.0
25	+79	87		2	38	58		+79	48.6		8.8	
26	+79	88		2	39	43		+79	39.2		8.4	
27	+79	90		2	46	56		+79	50.5		8.8	

Project PHaEDRA - Annie Jump Cannon 40  
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Feb. 28, 1912  
137309

[[4 column table]]  
No.	Class	Int.	Remark

28 | B9 | 5 |  
29 | K0 | 7 |  
30 | F | 2 |  
31 | G5 | 2 |  
32 | F | 2 |  
33 | Mb | 7 |  
34 | K | 1 |  
35 | A | 2 |  
36 | Ma | 8 |  
37 | A | 2 |  
38 | F | 2 |  
39 | F0 | 6 |  
40 | K | 1 |  
41 | K | 2 |  
42 | G5 | 4 |  
43 | A | 2 |  
44 | A2 | 3 |  
45 | G5 | 4 |  
46 | A | 4 | E.  
47 | G5 | 3 | E.  
48 | K2 | 3 | E.  
49 | A | 1 |  
50 | A | 2 |  
51 | G5 | 5 |  
52 | G5? | 2 | Very poor  
53 | G | 2 |  
54 | G5 | 2 |

67

[[5 column table]]  
No.	Dm.	Ra.	Dec	Mg.

28 | +79° 91° | 2° 49° 31' | +79° 43.8° | 8.3°  
29 | +79° 94° | 2° 55° 22' | +79° 35.6° | 7.3°  
30 | +79° 95° | 2° 55° ~~[[strikethrough]]~~ 22 ~~[[/strikethrough]]~~ 45° | +79°  
32.2° | 8.9°  
31 | +79° 96° | 2° 58° 27' | +79° 47.7° | 8.1°  
32 | +80° 103° | 2° 59° 17' | +80° 10.3° | 8.6°  
33 | +79° 110° | 3° 27° 5' | +79° 51.2° | 7.8°  
34 | +79° 107° | 3° 20° 28' | +79° 3.0° | 8.3°  
35 | +78° 123° | ~~[[strikethrough]]~~ 2 ~~[[/strikethrough]]~~ 3° 17° 12' | +78°  
48.3° | 8.9°  
36 | +78° 103° | 2° 47° 5' | +78° 50.7° | 5.6°  
37 | +78° 78° | +2° 4° 57' | +78° 59.6° | 9.0°  
38 | +78° 80° | 2° 6° 36' | +78° 36.7° | 8.7°  
39 | +79° 68° | 2° 7° 11' | +79° 6.5° | 7.7°  
40 | +78° 8° | ~~[[strikethrough]]~~ 3 ~~[[/strikethrough]]~~ .2 ~~[[8.2]]~~ 2° 8° 54' | +78°

66					67				
Sub. at 1912									
No.	Class	Int.	Remark		No.	Class	Int.	Remark	
28	B9	5			28	B9	5		
29	K0	7			29	K0	7		
30	F	2			30	F	2		
31	G5	2			31	G5	2		
32	F	2			32	F	2		
33	Mb	7			33	Mb	7		
34	K	1			34	K	1		
35	A	2			35	A	2		
36	Ma	8			36	Ma	8		
37	A	2			37	A	2		
38	F	2			38	F	2		
39	F0	6			39	F0	6		
40	K	1			40	K	1		
41	K	2			41	K	2		
42	G5	4			42	G5	4		
43	A	2			43	A	2		
44	A2	3			44	A2	3		
45	G5	4			45	G5	4		
46	A	4	E.		46	A	4	E.	
47	G5	3	E.		47	G5	3	E.	
48	K2	3	E.		48	K2	3	E.	
49	A	1			49	A	1		
50	A	2			50	A	2		
51	G5	5			51	G5	5		
52	G5?	2	Very poor		52	G5?	2	Very poor	
53	G	2			53	G	2		
54	G5	2			54	G5	2		

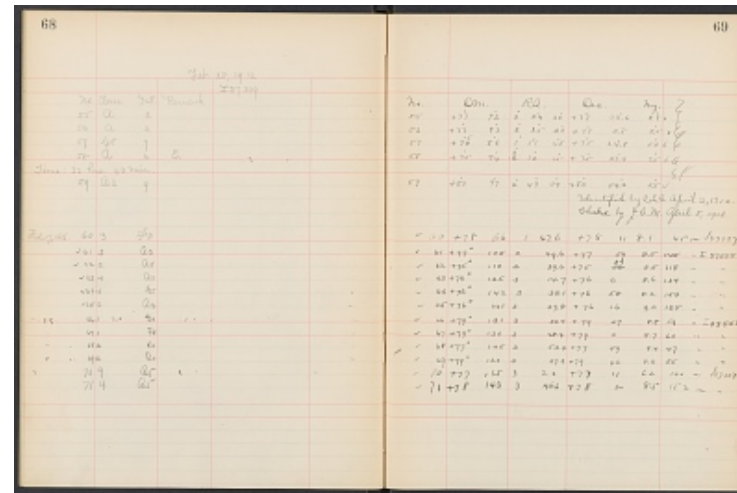
53.7 | ~~7.9°~~ 8.0°  
 41 | +78° 8' ~~2~~ 8° 54' +78°  
 59.1° | 7.9°  
 42 | +79° 75' | 2° 18' 24" +79° 4.8' | 7.5°  
 43 | +78° 94' | 2° 23' 15" +78° 53.5' | 8.5°  
 44 | +78° 95' | 2° 26' 50" +78° 33.8' | 8.0°  
 45 | +78° 98' | 2° 35' 27" +78° 4.0' | 8.0°  
 46 | +77° 76' | 1° 58' 38" +77° 13.5' | 8.7°  
 47 | +77° 78' | 2° 3' 0" +77° 3.7' | 7.9°  
 48 | +77° 79' | 2° 6' 5" +77° 35.2' | 7.9°  
 49 | +77° 81' | 2° 7' 35" +77° 58.1' | 9.2°  
 50 | +78° 81' | 2° 8' 27" +78° 1.6' | 8.5°  
 51 | +77° 84' | 2° 17' 41" +77° 0.7' | 7.5°  
 52 | +77° 86' | 2° 18' 34" +77° 51.0' | 8.6°  
 53 | +77° 88' | 2° 21' 1" +77° 59.4' | 8.3°  
 54 | +77° 95' | 2° 27' 56" +77° 58.4' | 8.1°

[[right margin]] cards made out [[/right margin]]

Project PHaEDRA - Annie Jump Cannon 40  
 Transcribed and Reviewed by Digital Volunteers  
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68

Feb. 28, 1912  
 I 37309  
 [[4 column table]]  
 No. | Class | Int. | Remark  
 55 | A | 2 | |  
 56 | A | 2 | |  
 57 | G5 | 7 | |  
 58 | A | 6 | E |  
 Time: 22 hrs. 43 min.  
 59 | A2 | 9 | |  
 Feb. 17, 1916  
 60 | 3 | F0 | |  
 61 | 3 | A3 | |  
 62 | 2 | A5 | |  
 63 | 4 | A0 | |  
 64 | 4 | G5 | |  
 65 | 2 | A2 | |  
 66 | 1 | G0 | |  
 67 | 1 | F8 | |  
 68 | 2 | K0 | |  
 69 | 2 | A0 | |  
 70 | 9 | A5 | |  
 71 | 4 | A5 | |



69

Cards made out  
 [[5 column table]]

No. | DM. | RA. | Dec. | Mg.  
 55 | +77 92 | 2 24 30 | +77 32.6 | 8.9  
 56 | +77 93 | 2 25 20 | +77 0.5 | 8.5  
 57 | +7 ~~[[strikethrough]]~~ 4 ~~[[/strikethrough]]~~ 5 86 | 1 51 48 | +75 24.8 | 5.0  
 58 | +75 94 | ~~[[strikethrough]]~~ 2 ~~[[/strikethrough]]~~ 10 15 | +75 27.4 | 7.5  
 59 | +80 97 | 2 49 34 | +80 54.2 | 5.5  
 Identified by C.L.A. April 2, 1912  
 Checked by J.C.M. April 5, 1912.

60 | +78 66 | 1 47.6 | +78 11 | 8.1 45 on I 37227  
 61 | +77° 105 | 2 49.6 | +77 59 | 8.5 145 on I 37555  
 62 | +75° 110 | 2 39.6 | +75 ~~[[strikethrough]]~~ 56 ~~[[/strikethrough]]~~ 39 | 8.5  
 118 on I 37555  
 63 | +76° 125 | 3 14.7 | +76 6 | 8.6 134 on I 37555  
 64 | +76° 142 | 3 38.1 | +76 58 | 8.2 154 on I 37555  
 65 | +76° 141 | 3 37.8 | +76 16 | 9.0 125 on I 37555  
 66 | +79° 131 | 3 50.4 | +79 27 | 8.8 59 on I 37558  
 67 | +79° 130 | 3 48.4 | +79 0 | 8.7 60 on I 37558  
 68 | +77° 145 | 3 53.4 | +77 59 | 8.4 47 on I 37558  
 69 | +79° 120 | 3 37.3 | +79 46 | 8.6 55 on I 37558  
 70 | +77° 115 | 3 22 | +77 11 | 6.2 | 140 on I 37555  
 71 | +78° 143 | 3 48.6 | +78 2 | 8.5 152 on I 37555

Project PHaEDRA - Annie Jump Cannon 40  
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70

Feb. 28, 1912  
Time: 22 hrs. 45 mins. I 37615

[[4 column table]]  
No. | Class | Int. | Remark

---|---|---|---

1 | F0 | 4

2 | A | 2

3 | B9 | 3

4 | B9 | 3

5 | A5 | 2

6 | G5 | 7

7 | G | 2

8 | K | 1

9 | B9 | 6

10 | G5 | 9

11 | B9 | 7

12 | A2 | 3

13 | B8 | 3

14 | A3 | 7

15 | G5 | 2

16 | G5 | 4

17 | G | 2

18 | G5 | 6

19 | K | 2

20 | G5 | 3

21 | F5 | 2

22 | A5 | 7

23 | F5 | 7

24 | F0 | 7

25 | F5 | 2

26 | G5 | 6

27 | B9 | 3

71

Cards made out  
[[5 column table]]

---|---|---|---|---

1 | +73° 139 | 2 14.2 +73 | 3.0 | 6.9

2 | +72° 128 | 2 11.2 +72 | 50.3 | 7.5

3 | +73° 131 | 2 10.2 +73 | 8.5 | 7.9

4 | +72° 121 | 2 4.5 +72 | 38.8 | 8.0

5 | +72° 120 | 2 2.9 +72 | 55.6 | 8.5

6 | +73° 121 | 2 0.1 +73 | 19.6 | 6.5

7 | +73° 142 | 2 16.3 +73 | 58.9 | 8.3

8 | +75° 98 | 2 13.7 +75 | 18.5 | 8.5

9 | +75° 94 | 2 10.2 +75 | 27.4 | 7.5

10 | +75° 86 | 1 51.8 +75 | 24.8 | 5.0

11 | +74° 91 | 1 48.8 +74 | 47.2 | 6.5

12 | +74° 95 | 1 53.8 +74 | 10.2 | 7.5

13 | +73° 112 | 1 52.9 +73 | 52.0 | 7.3

14 | +73° 108 | 1 50.5 +73 | 8.3 | 6.2

15 | +72° 114 | 1 48.5 +72 | 41.9 | 8.2

16 | +72° 112 | 1 46.6 +72 | 27.1 | 7.2

17 | +73° 104 | 1 47.0 +73 | 16.2 | 8.3

18 | +74° 87 | 1 44.8 +74 | 37.0 | 6.5

70	71
<p>Feb. 28, 1912</p> <p>Time: 22 hrs. 45 mins.</p> <p>[[4 column table]]</p> <p>No.   Class   Int.   Remark</p> <p>--- --- --- ---</p> <p>1   F0   4</p> <p>2   A   2</p> <p>3   B9   3</p> <p>4   B9   3</p> <p>5   A5   2</p> <p>6   G5   7</p> <p>7   G   2</p> <p>8   K   1</p> <p>9   B9   6</p> <p>10   G5   9</p> <p>11   B9   7</p> <p>12   A2   3</p> <p>13   B8   3</p> <p>14   A3   7</p> <p>15   G5   2</p> <p>16   G5   4</p> <p>17   G   2</p> <p>18   G5   6</p> <p>19   K   2</p> <p>20   G5   3</p> <p>21   F5   2</p> <p>22   A5   7</p> <p>23   F5   7</p> <p>24   F0   7</p> <p>25   F5   2</p> <p>26   G5   6</p> <p>27   B9   3</p>	<p>[[5 column table]]</p> <p>--- --- --- --- ---</p> <p>1   +73° 139   2 14.2 +73   3.0   6.9</p> <p>2   +72° 128   2 11.2 +72   50.3   7.5</p> <p>3   +73° 131   2 10.2 +73   8.5   7.9</p> <p>4   +72° 121   2 4.5 +72   38.8   8.0</p> <p>5   +72° 120   2 2.9 +72   55.6   8.5</p> <p>6   +73° 121   2 0.1 +73   19.6   6.5</p> <p>7   +73° 142   2 16.3 +73   58.9   8.3</p> <p>8   +75° 98   2 13.7 +75   18.5   8.5</p> <p>9   +75° 94   2 10.2 +75   27.4   7.5</p> <p>10   +75° 86   1 51.8 +75   24.8   5.0</p> <p>11   +74° 91   1 48.8 +74   47.2   6.5</p> <p>12   +74° 95   1 53.8 +74   10.2   7.5</p> <p>13   +73° 112   1 52.9 +73   52.0   7.3</p> <p>14   +73° 108   1 50.5 +73   8.3   6.2</p> <p>15   +72° 114   1 48.5 +72   41.9   8.2</p> <p>16   +72° 112   1 46.6 +72   27.1   7.2</p> <p>17   +73° 104   1 47.0 +73   16.2   8.3</p> <p>18   +74° 87   1 44.8 +74   37.0   6.5</p>

19	+75° 83	1 47.2 +75	13.5   7.2
20	+75° 80	1 44.5 +75	39.1   7.6
21	+75° 77	1 42.7 +75	19.0   8.0
22	+75° 76	1 42.2 +75	29.8   6.8
23	+74° 84	1 38.8 +74	52.4   6.8
24	+75° 72	1 32.1 +75	7.8   7.0
25	+74° 78	1 33.8 +74	5.3   8.4
26	+73° 92	1 31.6 +73	51.5   6.8
27	+73° 84	1 27.4 +73	48.1   8.3

Project PHaEDRA - Annie Jump Cannon 40  
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72

Feb. 28, 1912  
137615

[[4 column table]]

No. | Class | Int. | Remark |

28 | B8 | 8 | |

29 | G5 | 9 | |

30 | G5 | 3 | |

31 | A0 | 5 | |

32 | G5 | 4 | |

33 | G5 | 4 | |

34 | K0 | 4 | |

35 | A | 7 | E. |

36 | A0 | 3 | |

37 | A | 6 | |

38 | A | 2 | A narrow edge one preceeding side of 37 |

39 | A0 | 8 | |

40 | A | 7 | E. |

41 | F5 | 2 | Poor focus |

42 | F | 2 | |

43 | F | 4 | |

44 | F | 1 | Difficult |

45 | G5 | 5 | |

46 | B9 | 4 | |

47 | A2 | 6 | |

72				73			
No.	Class	Int.	Remark	No.	Class	Int.	Remark
28	B8	8		48	F5	2	Poor focus
29	G5	9		49	F	2	
30	G5	3		50	F	4	
31	A0	5		51	F	1	Difficult
32	G5	4		52	G5	5	
33	G5	4		53	B9	4	
34	K0	4		54	A2	6	
35	A	7	E.	55	F5	2	Poor focus
36	A0	3		56	F	2	
37	A	6		57	F	4	
38	A	2	A narrow edge one preceeding side of 37	58	F	2	
39	A0	8		59	F	1	Difficult
40	A	7	E.	60	G5	5	
41	F5	2	Poor focus	61	B9	4	
42	F	2		62	A2	6	
43	F	4		63	F5	2	Poor focus
44	F	1	Difficult	64	F	2	
45	G5	5		65	F	4	
46	B9	4		66	G5	5	
47	A2	6		67	B9	4	
				68	A2	6	
				69	F5	2	Poor focus
				70	F	2	
				71	F	4	
				72	G5	5	
				73	B9	4	
				74	A2	6	
				75	F5	2	Poor focus
				76	F	2	
				77	F	4	
				78	G5	5	
				79	B9	4	
				80	A2	6	
				81	F5	2	Poor focus
				82	F	2	
				83	F	4	
				84	G5	5	
				85	B9	4	
				86	A2	6	
				87	F5	2	Poor focus
				88	F	2	
				89	F	4	
				90	G5	5	
				91	B9	4	
				92	A2	6	
				93	F5	2	Poor focus
				94	F	2	
				95	F	4	
				96	G5	5	
				97	B9	4	
				98	A2	6	
				99	F5	2	Poor focus
				100	F	2	

48 | K | 2 | |

49 | A5 | 2 | Difficult |

50 | F2 | 3 | |

51 | F8 | 2 | |

52 | G5 | 5 | |

53 | K2 | 3 | |

54 | K0 | 2 | |

73

[[5 column table]]

28 | +73° 81 | 1 25.6 +73 | 32.7 | 6.5 |

29 | +72° 86 | 1 27.0 +72 | 17.2 | 5.2 |

30 | +71° 87 | 1 24.4 +71 | 40.4 | 7.8 |

31 | +72° 69 | 1 13.3 +72 | 4.9 | 6.7 |

32 | +72° 68 | 1 8.0 +72 | 6.4 | 6.7 |

33 | +71° 64 | 1 8.2 +71 | 38.5 | 6.8 |

34 | +70° 90 | 1 5.9 +70 | 59.7 | 6.0 |

35 | +70° 102 | 1 15.2 +70 | 13.4 | 6.1 |

36 | +72° 67 | 1 7.8 +72 | 38.2 | 8.5 |

37 | +73° 61 ~~0~~ ~~1~~ | 5.8 +73 13.9  
~~11~~ ~~7.0~~ ~~8.5~~  
 |

38 | +73° 60 ~~59~~ ~~1~~ | 5.8  
~~2.8~~ ~~+73 11.9~~ ~~9.1~~  
~~8.5~~ ~~7.5~~  |

39 | +73° 51 | 0 54.5 +73 | 36.0 | 6.8 |

40 | +74° 41 | 0 47.7 +74 | 41.5 | 8.0 |

41 | +76° 31 | 0 50.5 +76 | 5.2 | 8.2 |

42 | +76° 30 | 0 48.5 +76 | 40.7 | 8.8 |  
 43 | +76° 28 | 0 46.7 +76 | 41.1 | 8.0 |  
 44 | +73° 78 | 1 21.7 +73 | 52.3 | 8.5 |  
 45 | +73° 75 | 1 17.5 +73 | 27.3 | 7.5 |  
 46 | +73° 71 | 1 14.2 +73 | 21.9 | 7.8 |  
 47 | +73° 66 | 1 10.4 +73 | 49.2 | 6.8 |  
 48 | +76° 58 | 1 36.5 +76 | 16.0 | 8.0 |  
 49 | +76° 53 | 1 28.3 +76 | 5.9 | 8.5 |  
 50 | +75° 69 | 1 26.3 +75 | 59.0 | 8.1 |  
 51 | +76° 75 | 2 1.2 +76 | 15.4 | 9.0 |  
 52 | +77° 84 | 2 17.7 +77 | 0.7 | 7.5 |  
 53 | +77° 79 | 2 6.1 +77 | 35.2 | 7.9 |  
 54 | +77° 78 | 2 3.0 +77 | 3.7 | 7.9 |

[[right margin]]  
 cards made out  
 [[\right margin]]

Project PHaEDRA - Annie Jump Cannon 40  
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74

Feb. 28, 1912  
I37615

[[4 column table]]

No. | Class | Int. | Remark

55 | A | 3 |

56 | A | 5 | E.

57 | G5 | 4 | Focus very poor

Time: 22 hrs. 56 mins.

Feb 17, 1916. 58 | 9 | F0 |

59 | 1 | R5 |

60 | 5 | R0 |

61 | 3 | A0 |

62 | 2 | G0 |

63 | 2 | A5 |

64 | 3 | A0 |

65 | 2 | G5 |

66 | 1 | G0 |

[?] 67 | 1 | F8

75

[[5 column table]]

55 | +77° 76 | 1 58.6 | +77 13.5 | 8.7 |

56 | +79° 86 | 2 36.1 | +79 29.0 | 7.0 |

57 | +79° 75 | 2 18.4 | +79 4.8 | 7.5 |

Ident by A.M.C

Checked by J.C.M. April 5, 1912

58 | +76° 63 | 1 50.8 | +76 35 | 5.3 46 on I 37227

59 | +77° 61 | 1 34.2 | +77 [11?] | 8.2

60 | +75 58 | 1 10.3 | +75 58 7.1 | 77 on I 37227

61 | +78 49 | 1 22.8 | +78 25 8.5 | 54 on I 37227

62 | +78 45 | 1 18.8 | +78 24 8.5 | 55 on I 37227

63 | +77 45 | 1 5.5 | +77 1 8.4 |

64 | +77 41 | 1 1.7 | +77 4 8.3 |

65 | +77° 34 | 0 51.8 | +77 33 8.3 |

66 | +77° 46 | [1?] 6.2 | +77 52 8.5 |

59, 63, 64, 65, 66 Ident. on cards by M.A.H. Feb. 21, 1916

[noo?] 59, 65 + 66 [idiut?] in book by [J.L.?] M. Feb 21, 1916.

Compared by M.A.H. Feb. 21, 1916

67 | +71 89 | 1 25.5 | +71 13 8.8 | 47 on I38972

74					75				
Feb 28, 1912									
55	A	3			55	+77° 76	1	58.6	+77 13.5   8.7
56	A	5	E.		56	+79° 86	2	36.1	+79 29.0   7.0
57	G5	4	Focus very poor		57	+79° 75	2	18.4	+79 4.8   7.5
Time: 22 hrs. 56 mins.									
Feb 17, 1916. 58   9   F0									
59	1	R5							
60	5	R0							
61	3	A0							
62	2	G0							
63	2	A5							
64	3	A0							
65	2	G5							
66	1	G0							
[?] 67   1   F8									

Project PHaEDRA - Annie Jump Cannon 40  
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76

Feb. 29, 1912  
Time 23.40 | 37602

[[4 column table]]  
No. | Class Set. | Remark

1|A 10|Q  
2|A2 3|  
3|A0 10|  
4|A 8|E  
5|A 2|  
6|B9 9|  
7|A3 2|  
8|B9 4|  
9|K0 4|  
10|A 3|  
11|B9 5|  
12|G0 6|  
13|A3 9|  
14|G5 5|  
15|G5 3|  
16|A0 4|  
17|F5 2|  
18|A 3|  
19|A0 5|  
20|F5 2|  
21|A 2|  
22|A0 7|  
23|G5 2|  
24|B9 3|  
25|F0 6|  
26|B9 5|  
27|K2 8|

77

[[5 column table]]

No|DM|RA|Dec Mg|  
1|+12 912|5 41 243|+12 36.2 | 5.1|  
2|+12 910|5 41 4.3|+12 6.0 | 8.3|  
3|+12 909|5 40 54.8|+12 26.5 | 8.5|  
4|+11 945|5 40 40.9|+11 56.3 | 7.5|  
5|+12 907|5 40 22.8|+12 32.3 | 8.7|  
6|+12 902|5 39 54.6|+12 22.4 | 7.5|  
7|+12 901|5 39 51.6|+12 0.8 | 8.7|  
8|+12 897|5 39 15.8|+12 35.3 | 8.5|  
9|+12 896|5 39 5.1|+12 17.4 | 7.5|  
10|+12 899|5 39 20.9|+12 12.0 | 8.7|  
11|+12 894|5 38 17.4|+12 27.5 | 8.2|  
12|+12 889|5 37 13.2|+12 43.3 | 8.0|  
13|+12 884|5 36 52.1|+12 49.2 | 7.0|  
14|+12 882|5 36 33.2|+12 20.7 | 8.1|  
15|+11 920|5 35 46.8|+11 20.2 | 8.0|  
16|+12 875|5 35 25.9|+12 55.7 | 8.1|  
17|+13 964|5 34 50.3|+13 4.1 | 8.7|  
18|+12 869|5 34 12.4|+12 54.0 | 8.7|  
19|+13 957|5 33 58.4|+13 31.5 | 8.5|

76					77				
Feb. 29, 1912									
No.	Class	Set	Remark		No.	Class	Set	Remark	
1	A	10	Q		1	A	10	Q	
2	A2	3			2	A2	3		
3	A0	10			3	A0	10		
4	A	8	E		4	A	8	E	
5	A	2			5	A	2		
6	B9	9			6	B9	9		
7	A3	2			7	A3	2		
8	B9	4			8	B9	4		
9	K0	4			9	K0	4		
10	A	3			10	A	3		
11	B9	5			11	B9	5		
12	G0	6			12	G0	6		
13	A3	9			13	A3	9		
14	G5	5			14	G5	5		
15	G5	3			15	G5	3		
16	A0	4			16	A0	4		
17	F5	2			17	F5	2		
18	A	3			18	A	3		
19	A0	5			19	A0	5		
20	F5	2			20	F5	2		
21	A	2			21	A	2		
22	A0	7			22	A0	7		
23	G5	2			23	G5	2		
24	B9	3			24	B9	3		
25	F0	6			25	F0	6		
26	B9	5			26	B9	5		
27	K2	8			27	K2	8		

20	+13	955	5 33 26.1	+13	51.0	9.0
21	+13	954	5 33 17.8	+13	4.3	8.9
22	+12	852	5 31 45.9	+12	56.5	7.5
23	+12	848	5 30 45.1	+12	52.1	8.7
24	+12	843	5 30 23.6	+12	35.1	8.8
25	+11	899	5 31 26.2	+11	55.6	8.2
26	+11	880	5 28 38.5	+11	45.0	8.3
27	+10	828	5 29 1.2	+10	56.0	6.5

Project PHaEDRA - Annie Jump Cannon 40  
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78  
Feb. 29, 1912 (cont)  
137602

[[4 columns]]

No.|Class|Int.|Remarks

28|G5|3|  
29|A2|4|  
30|G5|6|  
31|A0|2|  
32|F5|4|  
33|B8|4|  
34|G5|2|  
35|B3|8|  
36|A0|4|  
37|G5|9|E  
38|A3|E  
39|B8|[[?]]|2|E. Another star partly superposed  
40|A|2|  
41|A|3|  
42|B8|10|  
43|A2|8|  
44|A3|3|  
45|K|2|  
46|A|1|  
47|B8|9|  
48|A0|7|  
49|F8|2|  
50|G0|5|  
51|G5|2|  
52|A2|2|  
53|A0|3|Partly superposed on 54  
54|B8|2|Partly superposed on 53

79  
[[5 columns]]

No|DM|RA|Dec|Mg  
28|+12° 830|5 28 27.8|+12 0.0 | 8.2  
29|+12° 833|5 28 52.2|+12 23.3 | 8.5  
30|+12° 829|5 28 2.0|+12 20.6 | 8.0  
31|+12° 824|5 27 27.3|+12 44.6 | 8.7  
32|+13° 930|5 27 8.8|+13 11.1 | 8.5  
33|+13° 927|5 26 55.3|+13 18.9 | 8.5  
34|+12° 810|5 23 14.3|+12 26.6 | 8.5  
35|+11° 834|5 22 55.6|+11 58.8 | 7.6  
36|+11 839|5 24 0.9 |+11 7.2 8.7  
37|+14° 1041|5 42 13.8|+14 15.3 5.7  
38|+14° 1037|5 41 40.6|+14 49.7 8.6  
39|+14° 1033|5 40 51.6|+14 49.7 9.0  
40|+13° 988|5 41 11.8|+13 52.4 8.7  
41|+14° 1034|5 40 52.1|+14 2.1 8.6  
42|+13° 979|5 39 30.4|+13 51.1 5.3  
43|+14° 1025|5 38 57.3|+14 26.2 6.0  
44|+14° 1027|5 39 21.5|+14 57.7 8.2  
45|+15° 931|5 39 12.5|+15 40.0 | 8.5  
46|+15° 928|5 38 41.0|+15 47.3 | 8.8  
47|+15° 926|5 38 25.5|+15 46.0 | 6.2

78					79				
Feb. 29, 1912 (cont)									
No.	Class	Int.	Remarks		No.	Class	Int.	Remarks	
28	G5	3			28	G5	3		
29	A2	4			29	A2	4		
30	G5	6			30	G5	6		
31	A0	2			31	A0	2		
32	F5	4			32	F5	4		
33	B8	4			33	B8	4		
34	G5	2			34	G5	2		
35	B3	8			35	B3	8		
36	A0	4			36	A0	4		
37	G5	9	E		37	G5	9	E	
38	A3				38	A3			
39	B8	[[?]]	2 E. Another star partly superposed		39	B8	[[?]]	2 E. Another star partly superposed	
40	A	2			40	A	2		
41	A	3			41	A	3		
42	B8	10			42	B8	10		
43	A2	8			43	A2	8		
44	A3	3			44	A3	3		
45	K	2			45	K	2		
46	A	1			46	A	1		
47	B8	9			47	B8	9		
48	A0	7			48	A0	7		
49	F8	2			49	F8	2		
50	G0	5			50	G0	5		
51	G5	2			51	G5	2		
52	A2	2			52	A2	2		
53	A0	3	Partly superposed on 54		53	A0	3	Partly superposed on 54	
54	B8	2	Partly superposed on 53		54	B8	2	Partly superposed on 53	

48	+16°	855	5 36 31.5	+16 1.0	6.9
49	+15°	917	5 36 38.9	+15 34.2	8.8
50	+14°	1008	5 36 14.7	+14 59.8	7.8
51	+14°	1010	5 36 28.3	+14 30.4	8.5
52	+14°	1003	5 35 36.7	+14 36.1	9.0
53	+14°	999	5 35 18.2	+14 13.3	8.9
54	+14°	998	5 35 16.5	+14 20.3	8.8

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Feb. 29, 1912 (Cont.)  
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[[4 Columns]]

No.|Class|Int|Remark

55|G5|7  
56|B9|3  
57|G|2  
58|F2|2  
59|G0|4  
60|A0|4  
61|F0|8  
62|K|1  
63|A0|7  
64|A2|2  
65|G5|6  
66|G|2  
67|G0|3  
68|G9|3  
69|A0|3  
70|B3|10  
71|G0|2  
72|F0|5  
73|B5|9  
74|F5|2  
75|A0|10  
76|MA|5  
77|B9|6  
78|A|5|E  
79|A|2  
80|A|3  
81|B9|7

81

[[5 columns]]

No|DM|RA|Dec|Mg

55+14 991|5 34 45.0|+14 5.9|7.2  
56+13 974|5 37 4.4|+13 38.6|8.8  
57+13 971|5 36 50.4|+13 30.4|8.4 [[scribble]]  
58+14 988|5 34 23.3|+14 56.8|8.5 [[scribble]]  
59+15 896|5 33 16.1|+15 8.0|8.0 [[scribble]]  
60+15 888|5 32 16.8|+15 1.2|8.1 [[scribble]]  
61+15 887|5 32 .7|+15 16.0|7.1 [[scribble]]  
62+14 978|5 31 31.7|+14 42.2|8.5 [[scribble]]  
63+14 973|5 30 52.2|+14 28.4|7.6 [[scribble]]  
64+14 965|5 9 51.3|+14 17.6|8.8 [[scribble]]  
65+15 871|5 29 20.2|+15 9.4|8.0 [[scribble]]  
66+14 959|5 28 27.4|+14 7.4|8.5 [[scribble]]  
67+14 958|5 28 12.4|+14 33.3|8.4 [[scribble]]  
68+14 956|5 27 18.7|+14 19.4|8.5 [[scribble]]  
69+13 922|5 26 18.5|+13 54.1|8.4 [[scribble]]  
70+14 947|5 25 40.6|+14 12.0|5.7 [[scribble]]  
71+14 939|5 24 30.9|+14 6.4|8.9 [[scribble]]  
72+14 933|5 23 15.0|+14 31.4|8.3 [[scribble]]  
73+14 934|5 23 19.6|+14 48.9|7.0

80					81				
Feb. 29, 1912 (Cont.)									
No.	Class	Int	Remark		No.	Class	Int	Remark	
55	G5	7			55	G5	7		
56	B9	3			56	B9	3		
57	G	2			57	G	2		
58	F2	2			58	F2	2		
59	G0	4			59	G0	4		
60	A0	4			60	A0	4		
61	F0	8			61	F0	8		
62	K	1			62	K	1		
63	A0	7			63	A0	7		
64	A2	2			64	A2	2		
65	G5	6			65	G5	6		
66	G	2			66	G	2		
67	G0	3			67	G0	3		
68	G9	3			68	G9	3		
69	A0	3			69	A0	3		
70	B3	10			70	B3	10		
71	G0	2			71	G0	2		
72	F0	5			72	F0	5		
73	B5	9			73	B5	9		
74	F5	2			74	F5	2		
75	A0	10			75	A0	10		
76	MA	5			76	MA	5		
77	B9	6			77	B9	6		
78	A	5 E			78	A	5 E		
79	A	2			79	A	2		
80	A	3			80	A	3		
81	B9	7			81	B9	7		

74	+15 840	5 23	12.6	+15 11.9	9.0
75	+15 837	5 22	8.4	+15 14.6	6.5
76	+16 792	5 21	38.4	+16 2.8	7.5
77	+16 786	5 20	29.0	+16 17.3	8.0
78	+17 1029	5 42	4.5	+17 59.0	7.8
79	+17 1019	5 41	2.5	+17 27.8	8.8
80	+17 1018	5 40	46.0	+17 41.5	9.0
81	+17 1013	5 40	2.6	+17 22.5	7.8

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Feb. 29, 1912 (cont)  
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[[4 column table]]  
No.	Class	Int.	Remark

82	A	2	
83	F	10	
84	F	5	Focus poor.
85	F	4	E.
86	K	3	
87	F5	5	Focus poor.
88	A0	7	
89	G	3	
90	Ma	5	
91	A	2	
92	A5	3	Poor focus.
93	B9	7	
94	B9	3	
95	K	4	
96	K	3	E.
97	A	2	
98	A0	5	
99	A	4	
100	A0	6	
101	B3	10	
102	F5	5	
103	Ma	4	
104	A	4	The southern
105	G	3	Superposed
106	A	2	The northern Superposed Exact class uncertain due to 104
107	K	1	The preceding of 2.
108	A	2	

83

[[5 column table]]  
No.	Dm	Ra	Dec	Mg

82	+17	1011	5 39 45.6	+17 26.6	8.7
83	+17	1004	5 38 59.0	+17 40.5	6.1
84	+18	<del>970</del>	5 40 15.6	+18 11.3	7.3
85	+18	973	5 40 54.2	+18 34.1	7.9
86	+18	966	5 38 56.4	+18 40.4	8.3
87	+18	959	5 37 37.9	+18 48.4	8.3
88	+18	957	5 37 19.2	+18 43.8	8.2
89	+18	955	5 37 10.3	+18 34.6	8.4
90	+18	950	5 36 42.1	+18 38.1	7.5
91	+18	946	5 36 225	+18 40.2	8.9
92	+18	939	5 35 52.4	+18 27.3	8.5
93	+18	938	5 35 46.3	+18 47.1	7.8
94	+18	931	5 35 2.0	+18 4.4	8.8
95	+17	985	5 34 22.4	+17 18.2	8.6

96	+16 867	5 38 52.8	+16 31.3	8.6
97	+16 852	5 35 20.0	+16 16.8	9.0
98	+16 850	5 35 7.0	+16 37.6	8.5
99	+16 847	5 34 52.0	+16 35.2	8.8
100	+16 842	5 33 19.0	+16 9.3	8.5
101	+16 841	5 32 56.0	+16 28.2	5.5
102	+16 835	5 31 54.0	+16 19.9	7.8
103	+17 979	5 32 56.4	+17 26.9	8.0
104	+17 977	5 32 22.4	+17 6.7	8.8
105	+17 978	5 32 23.9	+17 14.8	8.6
106	+16 837	5 32 16.0	+16 51.7	9.0
107	+17 976	5 32 5.4	+17 20.7	9.3
108	+17 975	5 31 48.9	+17 16.8	9.3

[[right margin]] cards made out [[/right margin]]

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84  
Feb 29, 1912 (Cont.)  
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[[4 COLUMN PAGE]]  
No.[Class Int.]Remark  
109[B9] 4|  
110[F] 2|  
111[A] 3|  
112[F] 9|  
113[B9] 3|  
114[F5] 3|  
115[A2] 2|The preceding of 2.  
116[A] 2|  
117[K0] 4|  
118[K] 2|  
119[B9] 6|  
120[F5] 3|  
121[F8] 5|  
122[A] 2|  
123[F8] 4|  
124[F8] 2|  
125[A] 2|  
126[A] 2|  
127[B8] 10|  
128[F0] 4|  
129[A0] 5|  
130[A5] 2|  
131[A] 2|  
132[B2] 10| H beta bright?  
133[K5] 9|  
134[K5] 3|  
135[A5?] 1|Difficult

85  
[[5 column page]]  
[[right margin]] Cards made out

No[DM]RA[Dec Mg  
109|+17 974|5 31 37.4|+17 35.5| 8.7|  
110|+17 971|5 30 53.2|+17 37.5| 9.0|  
111|+17 969|5 30 19.6|+17 39.6| 9.2|  
112|+16 822|5 28 39.9|+16 55.4| 6.2|  
113|+16 824|5 29 8.7|+16 27.8| 8.9|  
114|+15 872|5 29 32.5|+15 49.0| 8.3|  
115|+15 869|5 29 5.7|+15 37.9| 8.8|  
116|+15 868|5 29 3.5|+15 47.5| 9.0|  
117|+15 866|5 28 29.3|+15 31.9| 7.9|  
118|+16 813|5 27 36.4|+16 2.9| 8.6|  
119|+15 861|5 26 44.6|+15 32.0| 7.6|  
120|+15 857|5 26 8.6|+15 41.9| 8.4|  
121|+15 856|5 25 41.0|+15 28.8| 7.5|  
122|+14 950|5 25 56.1|+14 54.2| 8.8|  
123|+15 851|5 24 48.2|+15 50.7| 8.3|  
124|+15 838|5 22 53.5|+15 40.8| 8.7|  
125|+16 793|5 22 5.0|+16 42.3| 9.2|  
126|+16 788|5 20 46.6|+16 53.3| 9.2|  
127|+16 794|5 23 51.2|+16 56.3| 6.1|  
128|+17 946|5 23 50.7|+17 38.2| 8.4|  
129|+17 945|5 23 37.2|+17 25.7| 8.2|

84					85				
Feb. 29, 1912 (Cont.)									
No.	Class	Int.	Remark	Specimen	No.	Class	Int.	Remark	Specimen
109	B9	4			113	F5	3		
110	F	2			114	F5	3		
111	A	3			115	A2	2		
112	F	9			116	A	2		
113	B9	3			117	K0	4		
114	F5	3			118	K	2		
115	A2	2			119	B9	6		
116	A	2			120	F5	3		
117	K0	4			121	F8	5		
118	K	2			122	A	2		
119	B9	6			123	F8	4		
120	F5	3			124	F8	2		
121	F8	5			125	A	2		
122	A	2			126	A	2		
123	F8	4			127	B8	10		
124	F8	2			128	F0	4		
125	A	2			129	A0	5		
126	A	2			130	A5	2		
127	B8	10			131	A	2		
128	F0	4			132	B2	10	H beta bright?	
129	A0	5			133	K5	9		
130	A5	2			134	K5	3		
131	A	2			135	A5?	1	Difficult	

130|+17 943|5 23 11.0|+17 12.2| 8.5|  
131|+17 938|5 22 29.2|+17 10.4| 9.2|  
132|+18 877|5 25 4.3|+18 26.3 |6.2|  
133|+18 875|5 23 42.8|+18 28.6 |4.4|  
134|+18 873|5 23 10.5|+18 7.6 |7.4|  
135|+18 869|5 22 43.9|+18 8.3|8.9|

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March 1, 1912  
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[[4 column table]]  
No.|Class|Int. Remark

136	Ma	1	
137	A2	7	
138	A0	8	
139	A	4	E.
140	A	2	
141	A	2	
142	A0	2	
143	B9	8	
144	F2	4	
145	K0	4	
146	A	6	Another star of class A superposed at north.
147	A	3	
148	A0	2	
149	A0	2	
150	B9	5	
151	K0	2	
152	A0	2	
153	K0	5	
154	A0	2	
155	K5	3	
156	A	2	
157	[[G?]]	3	
158	B9	8	E.
159	A0	4	E.
160	B8	9	[[crossed out]]9[/crossed out]]
161	F5	5	
162	A	2	

87

[[5 column table]]  
No|DM|RA|Dec|mg

136	+18 867	5 22 36.3	+18 26.5	9.0
137	+18 863	5 21 21.3	+18 17.6	7.9
138	+18 862	5 20 50.8	+18 14.8	7.0
139	[[crossed out]]28	[[/crossed out]]20 1073	5 36 9.0	+20 28.6 8.2
140	+19 1045	5 34 58.3	+19 27.6	9.2
141	+18 934	5 35 18.7	+18 33.9	9.0
142	+18 925	5 34 37.1	+18 26.3	9.0
143	+18 923	5 34 22.8	+18 55.0	7.1
144	+18 918	5 33 54.0	+18 36.3	8.3
145	+18 920	5 33 57.2	+18 55.1	7.5
146	+19 1	[[crossed out]]9	[[/crossed out]]023	5 33 11.1 +19 17.2 8.0
147	+19 1019	5 33 3.0	+19 8.4	8.4
148	+18 911	5 32 38.7	+18 33.7	8.5
149	+19 1009	5 32 13.4	+19 2.6	8.8
150	+19 1004	5 31 35.1	+19 35.5	7.8
151	+19 998	5 30 33.8	+19 41.0	8.2
152	+19 986	5 28 59.9	+19 41.1	8.8

153	+18 894	5 28 8.0	+18 50.8	8.3
154	+18 891	5 27 46.1	+18 30.4	9.0
155	+18 887	5 27 15.2	+18 39.6	8.3
156	+18 881	5 26 29.5	+18 30.7	9.0
157	+19 974	5 27 35.9	+19 4.7	8.6
158	+19 972	5 27 28.2	+19 27.1	7.5
159	+19 971	5 26 44.3	+19 39.5	8.1
160	+20 989	5 25 3.0	+20 21.9	6.3
161	+19 951	5 23 50.8	+19 0.7	8.0
162	+19 946	5 23 12.5	+19 25.1	8.3

[[right margin]]Cards made out[[/right margin]]

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March 1, 1912

I 37602

No. | Class | Int. | Remark

163 | B8 | 7 | E. |

164 | K | 4 | E. |

~~165~~

Time 23 hrs. 23 min.

165 | 3 | G0 | |

166 | 1 | K0 | |

167 | 1 | G0 | |

168 | 2 | K2 | |

89

[[written sideways on the right spanning from Mg to 7.5]] Made on  
[[dots written over all numbers in the first two rows in the columns  
labeled Dm, RA, Dec and Mg]]

No. | DM | RA | Dec | Mg |

163 | +20 969 | 5 21 38.8 | +20 26.2 | 7.5 |

164 | +20 961 | 5 20 22.8 | +20 19.3 | 7.5 |

Identified by C.L.A. Mar. 27, 1912

Checked J.C.M. April 5, 1912

165 | +16 766 | 5 15.3 | +16 21 | 8.0 | 117 on I37567

166 | +18 890 | 5 27.6 | +18 28 | 9.0 | 4 " I37388

167 | +18 880 | 5 26.4 | +18 1 | 9.1 |

no. 167 ident on card by JCM. May 20, 1916

no. 167 ident in book by MAH. May 20, 1916

Compound by M.A.H. May 20, 1916

168 | +16 735 | 5 6.0 | +16 30 | 8.7 | 132 on I37567

88																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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Project PHaEDRA - Annie Jump Cannon 40  
Transcribed and Reviewed by Digital Volunteers  
Extracted Dec-02-2022 11:31:25

90

March 1, 1912

Time: 23 hrs. 27 minutes | 137566 |

[[4 column table]]

No. | Class | Int. | Remark

1	A2	5	E.
2	Mb	5	E.
3	A3	3	E. Focus very poor.
4	A	3	
5	F5	7	
6	G5	7	
7	G0	7	
8	K0	6	
9	K0	2	
10	K0	4	
11	A5	4	
12	A0	4	
13	F	3	
14	A0	5	
15	G	2	
16	G5	8	
17	F	2	
18	F2	5	
19	A0	2	
20	F2	3	
21	G0	7	
22	G0	5	Party superposed on 21
23	G0	5	
24	F8	2	
25	G0	4	
26	F0	8	
27	G5	6	

91

[[5 column table]]

No. | DM | RA | Dec | mg

1	+4	700	4 22 12.7	+4 57.5   8.7
2	+4	696	4 21 58.3	+4 50.1   7.8
3	+5	660	4 20 48.4	+5 45.9   9.0
4	+6	687	4 19 50.2	+6 17.4   9.0
5	+6	686	4 19 34.8	+6 44.3   7.0
6	+[ <del>strickethrough</del> ]	4	[ <del>[/strickethrough]]</del> 6 685	4 19 3.8   +6 45.7   7.0
7	+4	690	4 18 15.7	+4 48.2   8.0
8	+5	649	4 17 54.9	+5 19.1   7.5
9	+6	680	4 16 34.5	+6 29.4   9.0
10	+6	678	4 16 29.9	+6 58.4   8.0
11	+6	676	4 16 2.2	+6 1.1   8.9
12	+6	671	4 15 22.5	+6 31.5   9.0
13	+6	669	4 14 38.8	+6 10.7   8.8
14	+6	667	4 13 48.3	+6 37.4   8.5
15	+5	634	4 13 27.7	+5 53.5   8.7
16	+5	636	4 12 57.9	+5 46.9   6.5
17	+6	663	4 12 14.0	+6 10.4   8.9
18	+5	622	4 10 52.0	+5 21.2   8.3
19	+6	656	4 10 13.3	+6 30.1   9.1
20	+5	620	4 9 18.7	+5 59.7   9.0
21	+5	614	4 7 46.4	+5 48.5   7.5
22	+5	613	4 7 43.4	+5 49.7   8.5
23	+6	652	4 8 31.2	+6 47.1   7.8
24	+7	624	4 8 15.5	+7 11.1   9.0
25	+7	620	4 7 15.9	+7 2.1   8.3

26 |+7 617|4 5 44.8| +7 20.7 |5.5  
27 |+4 652|4 5 3.0| +4 39.2 |8.3

^[[cards made out]]

Project PHaEDRA - Annie Jump Cannon 40  
Transcribed and Reviewed by Digital Volunteers  
Extracted Dec-02-2022 11:31:25

92  
 March 1, 1912  
 I37566  
 [[4 columns]]  
 No.|Class|Int.|Remark  
 28|G|1|  
 29|F2|6|  
 30|F0|9|  
 31|G5|2|  
 32|G5|3|  
 33|G5|2|  
 34|A|2|  
 35|B9|4| [[crossed out]]5[[/crossed out]]  
 36|A0|7|  
 37|A0|2|  
 38|F8|3|  
 39|B5|9|  
 40|A0|10|  
 41|G5|2|  
 42|A0|2|  
 43|A|4|E.  
 44|A|2|  
 45|G|4|E.  
 46|A|8|E.  
 47|A|3|E.  
 48|F5|4|E.  
 49|G|3|E.  
 50|G5|4|  
 51|F8|5|  
 52|G5|6|E.  
 53|A3|4|E.  
 54|B8|7|

93  
 [[5 column table]]  
 No|DM|RA|Dec|mg  
 28|+4 650|4 4 28.4|+4 48.5|9.2  
 29|+4 647|4 3 58.4|+4 56.6|8.4  
 30|+5 601|4 3 36.9|+5 8.6|6.0  
 31|+5 599|4 2 12.9|+5 12.9|8.8  
 32|+6 643|4 3 20.0|+6 12.1|8.7  
 33|+6 642|4 3 17.9|+6 54.5|8.8  
 34|+6 641|4 2 57.6|+6 54.0|9.1  
 35|+7 607|4 2 18.6|+7 18.5|8.3  
 36|+6 637|4 1 41.9|+6 21.1|7.2  
 37|+6 636|4 1 1.7|+6 23.6|8.5  
 38|+5 589|3 59 2.2|+5 18.4|8.5  
 39|+5 584|3 56 3.7|+5 1.7|6.2  
 40|+5 581|3 55 27.2|+5 35.2|4.0  
 41|+6 617|3 54 19.8|+6 7.1|8.7  
 42|+4 619|3 53 8.6|+4 40.3|8.5  
 43|+4 614|3 51 56.5|+4 12.3|8.2  
 44|+5 568|3 50 6.8|+5 3.9|8.5  
 45|+5 567|3 50 2.7|+5 18.2|8.3  
 46|+5 564|3 49 19.8|+5 36.4|7.0  
 47|+6 607|3 49 52.2|+6 27.4|8.5  
 48|+6 605|3 48 51.2|+6 17.0|7.8  
 49|+7 571|3 48 41.1|+7 9.2|8.5  
 50|+7 576|3 50 36.5|+7 3.3|8.1  
 51|+7 575|3 50 29.6|+7 11.5|7.8  
 52|+6 696|4 23 20.2|+6 28.4|7.0

92					93				
Transcript					Transcript				
No.	Class	Int.	Remark		No.	Class	Int.	Remark	
28	G	1			28	G	1		
29	F2	6			29	F2	6		
30	F0	9			30	F0	9		
31	G5	2			31	G5	2		
32	G5	3			32	G5	3		
33	G5	2			33	G5	2		
34	A	2			34	A	2		
35	B9	4	[[crossed out]]5[[/crossed out]]		35	B9	4	[[crossed out]]5[[/crossed out]]	
36	A0	7			36	A0	7		
37	A0	2			37	A0	2		
38	F8	3			38	F8	3		
39	B5	9			39	B5	9		
40	A0	10			40	A0	10		
41	G5	2			41	G5	2		
42	A0	2			42	A0	2		
43	A	4	E.		43	A	4	E.	
44	A	2			44	A	2		
45	G	4	E.		45	G	4	E.	
46	A	8	E.		46	A	8	E.	
47	A	3	E.		47	A	3	E.	
48	F5	4	E.		48	F5	4	E.	
49	G	3	E.		49	G	3	E.	
50	G5	4			50	G5	4		
51	F8	5			51	F8	5		
52	G5	6	E.		52	G5	6	E.	
53	A3	4	E.		53	A3	4	E.	
54	B8	7			54	B8	7		

53|+7 656|4 23 19.6|+7 0.5|7.5  
54|+7 648|4 20 14.6|+7 49.7|7.0

Project PHaEDRA - Annie Jump Cannon 40  
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March 1, 1912  
137566

[[4 column table]]  
No.	Class	Int.	Remark

55|B8 |10 |  
56|B8 |5 |  
57|G |2 |  
58|A0 |7 |  
59|G5 |2 |  
60|A0 |10 |  
61|G5 |2 |  
62|A0 |5 |  
63|G |3 | Partly superposed on 62  
64|F5 |5 |  
65|A2 |8 |  
66|G5 |2 |  
67|B8 |5 |  
68|F8 |2 |  
69|G |2 |  
70|G5 |2 |  
71|G5 |5 |  
72|A2 |9 |  
73|A0 |3 |  
74|B |10+ | Burned out.  
75|A |2 |  
76|G0 |10 |  
77|A0 |8 |  
78|F2 |2 |  
79|F0 |5 |  
80|B9 |5 |  
81|K0 |3 |

95

[[right margin]]Cards made out[[/right margin]]

[[5 column table]]  
No|DM|RA|Dec| Mg  
55|+8 |687|4 18 30.1|+8 |15.8 |6.5  
56|+9 |578|4 18 43.1|+9 |3.5 |8.3  
57|+9 |575|4 17 47.8|+9 |24.3 |9.0 C  
58|+9 |571|4 16 46.8|+9 |43.1 |8.3  
59|+8 |683|4 16 25.0|+8 |59.4 |8.8  
60|+9 |570|4 15 57.6|+9 |7.8 |5.2  
61|+7 |637|4 15 47.3|+7 |43.6 |8.3  
62|+8 |678|4 15 6.3|+8 |53.6 |8.4  
63|+9 |568|4 15 5.7|+9 |3.1 |8.6  
64|+9 |567|4 14 55.9|+9 |25.7 |8.4  
65|+8 |672|4 12 55.8|+8 |52.6 |7.0  
66|+8 |671|4 12 52.2|+8 |2.5 |8.5  
67|+7 |631|4 12 27.8|+7 |29.8 |7.8  
68|+7 |629|4 11 59.5|+7 |56.1 |9.0  
69|+8 |667|4 11 26.9|+8 |10.2 |9.0

94					95				
No.	Class	Int.	Remark		No.	Class	Int.	Remark	
55	B8	10			55	B8	10		
56	B8	5			56	B8	5		
57	G	2			57	G	2		
58	A0	7			58	A0	7		
59	G5	2			59	G5	2		
60	A0	10			60	A0	10		
61	G5	2			61	G5	2		
62	A0	5			62	A0	5		
63	G	3	Partly superposed on 62		63	G	3		
64	F5	5			64	F5	5		
65	A2	8			65	A2	8		
66	G5	2			66	G5	2		
67	B8	5			67	B8	5		
68	F8	2			68	F8	2		
69	G	2			69	G	2		
70	G5	2			70	G5	2		
71	G5	5			71	G5	5		
72	A2	9			72	A2	9		
73	A0	3			73	A0	3		
74	B	10+	Burned out.		74	B	10+	Burned out.	
75	A	2			75	A	2		
76	G0	10			76	G0	10		
77	A0	8			77	A0	8		
78	F2	2			78	F2	2		
79	F0	5			79	F0	5		
80	B9	5			80	B9	5		
81	K0	3			81	K0	3		

70|+8 670[[crossed out]]672[[/crossed out]]|4 12 8.9|+8 55.9 |8.9  
 71|+8 666|4 11 25.1|+8 55.9 |8.4  
 72|+9 558|4 10 32.0|+9 7.7 |7.3  
 73|+8 658|4 8 13.4|+8 40.9 |9.0  
 74|+8 657|4 7 40.4|+8 32.5 |4.5  
 75|+8 656|4 7 27.7|+8 3.9 |8.8  
 76|+8 652[[crossed out]]642[[/crossed out]]|4 6 3.3|+8 53.8 |4.7  
 77|+8 651|4 5 40.7|+8 32.5 |6.8  
 78|+8 648|4 5 8.1|+8 45.1 |8.8  
 79|+9 546[[crossed out]]646[[/crossed out]]|4 4 21.8|+9 17.3 |8.0  
 80|+8 644|4 2 30.4|+8 3.1 |8.3  
 81|+7 597|3 59 5.7|+7 48.1 |8.7

Project PHaEDRA - Annie Jump Cannon 40  
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March 1, 1912  
137566

[[4 columned table]]

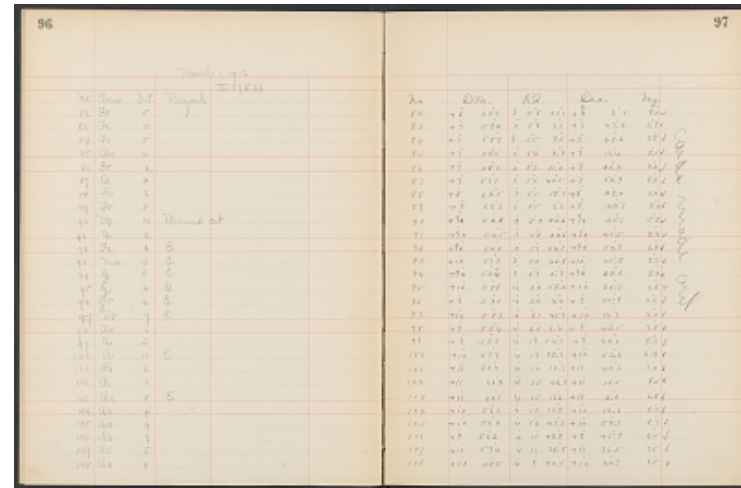
No.	Class	Int.	Remark
82	F8	5	
83	F2	10	
84	F0	5	
85	A0	2	
86	F8	2	
87	a	2	
88	K0	6	
89	F8	8	
90	B8	10	Burned out
91	A	2	
92	F2	6	epsilon
93	Ma	3	epsilon
94	G	3	epsilon
95	G	6	epsilon
96	G5	6	epsilon
97	B8	7	epsilon
98	A0	6	
99	A	3	
100	A	10	epsilon
101	K0	6	
102	A	1	
103	A2	8	epsilon
104	A2	4	
105	A0	4	
106	K0	7	
107	F5	5	
108	a0	4	

[[4 columned table]]

97

[[5 columned table with no heading]]

No	DM.	RA.	Dec.	Mg.
82	+8 633	3 58 23.1	+7 47.6	5.9
83	+7 592	3 56 7.1	+7 43.6	7.8
84	+7 589	3 55 9.6	+7 43.6	7.8
85	+7 585	3 54 2.9	+7 11.4	8.5
86	+7 583	3 53 11.0	+7 26.2	9.0
87	+7 577	3 50 40.5	+7 56.9	8.8
88	+8 625	3 55 18.7	+8 29.0	7.0
89	+8 623	3 55 7.2	+8 48.7	8.0
90	+90 528	3 53 52.6	+90 35.1	5.8
91	+90 525	3 52 38.6	+90 45.5	8.3
92	+90 524	3 51 44.1	+90 54.9	6.9
93	+10 513	3 50 40.8	+10 35.8	7.7
94	+90 523	3 51 5.7	+90 23.0	8.0
95	+10 588	4 22 58.2	+10 25.7	7.8
96	+9 590	4 22 4.4	+9 55.9	7.0
97	+10 583	4 21 45.9	+10 11.7	7.0
98	+9 584	4 20 6.4	+9 44.5	7.8
99	+9 583	4 19 54.7	+9 40.6	8.3





100	+10 577	4 19 28.3	+10 52.6	6.4
101	+11 604	4 16 12.7	+11 49.3	7.0
102	+11 602	4 15 42.3	+11 10.5	8.5
103	+11 601	4 15 16.6	+11 2.6	6.8
104	+10 563	4 13 10.8	+10 10.6	8.5
105	+10 560	4 12 43.3	+10 52.7	8.7
106	+9 562	4 11 42.8	+9 45.9	6.5
107	+11 592	4 11 28.8	+11 36.5	7.5
108	+10 555	4 9 40.5	+10 40.7	8.5

[[/5 columned table]]

[[right margin]]cards made out [[/right margin]]

Project PHaEDRA - Annie Jump Cannon 40  
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98

March 1, 1912  
137566

[[4 columned table]]  
No. | Class | Int. | Remark

109	A2	6	
110	F5	6	
111	B8	10	Burned out
112	B8	8	
113	A2	5	
114	F2	3	
115	G5	3	epsilon
116	G5	2	epsilon
117	G5	3	epsilon
118	F5	2	epsilon
119	Ma	4	
120	F8	4	
121	F5	3	
122	G5	5	
123	F8	3	
124	G0	5	epsilon
125	A	<del>0</del>	<del>0</del> 5   epsilon

[[/4 columned table]]

Time 23hrs. 48 min.

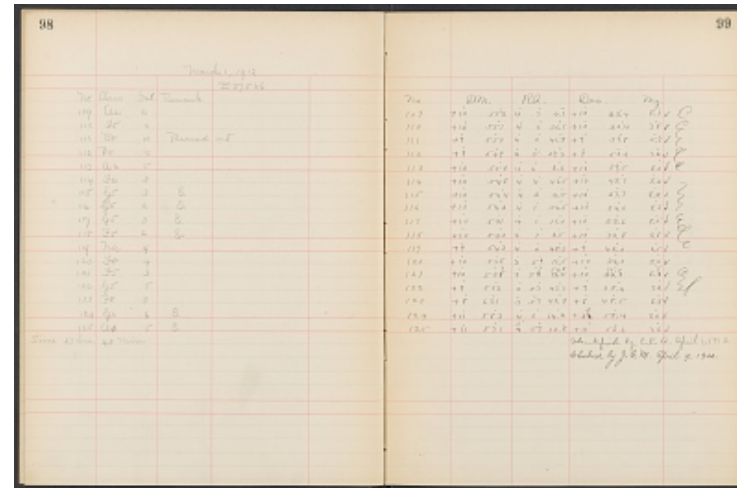
99

[[5 columned table]]  
No | DM. | RA. | Dec. | Mg.

109	+10 552	4 7 4.1	+10 22.4	8.1
110	+10 551	4 6 36.1	+10 20.4	7.8
111	+9 550	4 6 41.8	+9 37.8	5.7
112	+9 549	4 5 39.3	+9 50.6	7.2
113	+10 550	4 6 2.6	+10 39.5	8.0
114	+10 548	4 4 46.5	+10 48.7	8.2
115	+10 544	4 2 4.5	+10 27.7	8.2
116	+10 542	4 1 54.5	+10 24.6	8.3
117	+10 541	4 1 11.0	+10 22.6	8.5
118	+10 540	4 1 2.5	+10 32.8	8.8
119	+9 543	4 0 48.3	+9 42.0	6.5
120	+10 538	3 59 11.5	+10 24.3	8.3
121	+10 537	<del>8</del> <del>3</del> <del>59</del>	<del>7</del>	
		<del>3</del> <del>57</del> <del>9</del>	<del>24.3</del>	
		<del>54.8</del> <del>1.5</del> <del>5</del>	<del>8.3</del>	
		<del>35.0</del> <del>3</del> <del>5</del>	<del>8.3</del>	
122	+9 532	3 57 47.7	+9 38.4	7.2
123	+8 631	3 57 42.8	+8 48.5	8.8
124	+11 583	4 6 14.2	+11 <del>0</del> <del>58.4</del>	7.0
125	+11 571	3 <del>4</del> <del>59</del>	<del>10.8</del> <del>52.6</del>	7.6

[[/5 columned table]]  
[[right margin]]Cards Made Out[[/right margin]]

Identified by C.L.A. April 1, 1912  
Checked by J.G.M. April 9, 1912.



Project PHaEDRA - Annie Jump Cannon 40  
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100

March 1, 1912  
Time: 23 hrs 52 min. I 37593

[[4 column table]]  
No. | Class | Int. | Remark  
--|--|--

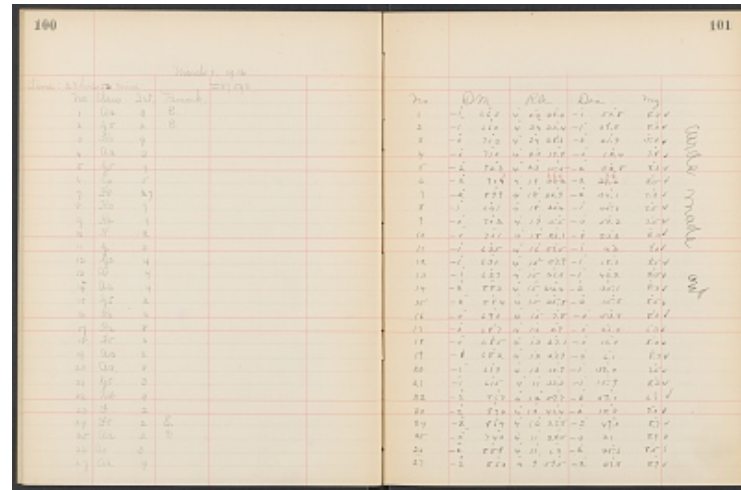
1	A2	3	E.
2	G5	2	E.
3	K0	9	
4	A2	3	
5	G5	4	
6	G0	5	
7	F8	7	
8	K0	7	
9	K2	4	
10	K	2	
11	G	2	
12	G0	4	
13	A	4	
14	A2	4	
15	G5	2	
16	K0	6	
17	K2	8	
18	F5	6	
19	A0	2	
20	A3	8	
21	G5	3	
22	Mb	4	
23	F	2	
24	F5	2	E.
25	A2	2	E
26	A0	3	
27	A2	4	

Time 23hrs. 48 min.

101

Cards Made Out  
[[5 column table]]

1	-1 663	4 24 49.4	-1 50.8	8.3
2	-1 660	4 24 23.4	-1 37.8	8.0
3	-0 713	4 24 28.6	-0 21.9	5.0
4	-0 710	4 23 19.8	-0 12.4	7.8
5	-2 923	4 23 15.5	-2 32.8	8.3
6	-2 90	[[/strikethrough]] 4 [[/strikethrough]] 3	4 19	[[/strikethrough]] 37.2
		[[/strikethrough]] 28.4	-2	[[/strikethrough]] 29.6
7	-2 899	4 18 22.9	-2 34.1	7.3
8	-1 641	4 18 20.4	-1 45.6	7.5
9	-0 702	4 19 5.5	-0 50.2	7.5
10	-0 701	4 18 26.1	-0 23.2	8.3



11	-1 635	4 16 37.5	-1 4.2	9.0
12	-1 630	4 15 57.9	-1 18.3	8.5
13	-1 627	4 15 41.0	-1 43.2	8.5
14	-2 883	4 15 24.4	-2 35.1	8.3
15	-2 884	4 15 25.8	-2 15.8	8.5
16	-0 690	4 15 7.8	-0 53.9	8.0
17	-0 687	4 14 2.9	-0 26.2	6.3
18	-0 685	4 13 27.1	-0 16.0	8.0
19	-0 682	4 12 27.9	-0 6.1	8.7
20	-1 619	4 13 10.9	-1 39.0	7.5
21	-1 615	4 11 33.3	-1 15.9	8.3
22	-2 867	4 12 57.7	-2 59.0	6.7
23	-2 874	4 13 41.4	-2 18.3	9.0
24	-2 864	4 12 27.8	-2 49.0	8.7
25	-3 740	4 11 28.5	-3 3.1	8.9
26	-2 858	4 11 1.3	-2 45.6	8.5
27	-2 853	4 9 59.5	-2 37.8	8.9

Project PHaEDRA - Annie Jump Cannon 40  
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100

March 2, 1912  
137594

[[4 column table]]  
No.	Class	Int.	Remark

28|F5|3|  
29|A0|3  
30|A0|3  
31|A0|3  
32|G0|4  
33|G5|4  
34|K0|2  
35|B5|8  
36|K1|  
37|K0|4  
38|K0|6  
39|K1|  
40|F8|6  
41|F5|5  
42|K0|2  
43|F8|7  
44|G5|6  
45|G5|3  
46|A7|E.  
47|G3|E.  
48|A10|E. Focus poor  
49|A0|6  
50|F8|8  
51|G5|5|E.  
52|G5|2|E.  
53|B8|6  
[[/strickethrough]] 54 [[/strickethrough]]  
Time: 0 hrs. 4 min.

103

Cards made Out  
[[5 column table]]

No. | DM | RA | Dec | Mg  
28 | -2 8 | [[/strickethrough]] 4 [[/strickethrough]] 55 | 4 10 21.1 | -2 12.4 | 8.8  
29 | -2 848 | 4 9 17.6 | -2 44.5 | 8.2  
30 | -1 612 | 4 10 13.4 | -1 14.5 | 8.8  
31 | -1 608 | 4 9 22.6 | -1 7.9 | 8.8  
32 | -0 668 | 4 9 10.0 | -0 55.8 | 8.0  
33 | -1 604 | 4 7 36.9 | -1 22.1 | 8.5  
34 | -1 603 | 4 6 57.4 | -1 59.6 | 8.5  
35 | -1 600 | 4 6 20.4 | -1 31.3 | 7.5  
36 | -2 844 | 4 7 18.8 | -2 30.4 | 7.8  
37 | -2 832 | 4 5 15.2 | -2 53.6 | 7.6  
38 | -0 653 | 4 4 9.7 | -0 47.9 | 7.2

102	Transit of Mars					103
	Obs.	Calc.	Diff.	Obs.	Calc.	
28	2.7	2.7	0.0	2.7	2.7	
29	2.8	2.8	0.0	2.8	2.8	
30	2.9	2.9	0.0	2.9	2.9	
31	3.0	3.0	0.0	3.0	3.0	
32	3.1	3.1	0.0	3.1	3.1	
33	3.2	3.2	0.0	3.2	3.2	
34	3.3	3.3	0.0	3.3	3.3	
35	3.4	3.4	0.0	3.4	3.4	
36	3.5	3.5	0.0	3.5	3.5	
37	3.6	3.6	0.0	3.6	3.6	
38	3.7	3.7	0.0	3.7	3.7	
39	3.8	3.8	0.0	3.8	3.8	
40	3.9	3.9	0.0	3.9	3.9	
41	4.0	4.0	0.0	4.0	4.0	
42	4.1	4.1	0.0	4.1	4.1	
43	4.2	4.2	0.0	4.2	4.2	
44	4.3	4.3	0.0	4.3	4.3	
45	4.4	4.4	0.0	4.4	4.4	
46	4.5	4.5	0.0	4.5	4.5	
47	4.6	4.6	0.0	4.6	4.6	
48	4.7	4.7	0.0	4.7	4.7	
49	4.8	4.8	0.0	4.8	4.8	
50	4.9	4.9	0.0	4.9	4.9	
51	5.0	5.0	0.0	5.0	5.0	
52	5.1	5.1	0.0	5.1	5.1	
53	5.2	5.2	0.0	5.2	5.2	
54	5.3	5.3	0.0	5.3	5.3	

39	-2 820	4 2 15.3	-2 4.0	8.5
40	-0 648	4 1 45.4	-0 13.5	8.0
41	+0 701	4 1 14.7	+0 23.8	8.2
42	-0 642	3 58 44.5	-0 24.8	8.3
43	-0 640	3 57 55.5	-0 57.5	7.5
44	-1 581	3 57 54.9	-1 24.6	7.8
45	-1 577	3 56 47.9	-1 34.0	8.3
46	-2 798	3 57 35.6	- <del>1</del> 2 49.7	6.8
47	-2 777	3 54 56.8	-2 2.4	8.0
48	-1 572	3 54 13.2	-1 57.4	5.5
49	-1 574	3 55 15.9	-1 12.3	7.2
50	-0 632	3 55 11.6	-0 39.8	6.2
51	+0 789	4 27 1.7	+0 6.6	7.5
52	+0 785	4 26 3.6	+0 42.6	8.5
53	+0 780	4 24 56.2	+0 39.9	8.0
<del>54</del>				

Project PHaEDRA - Annie Jump Cannon 40  
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104  
 March 4, 1912 (cont)  
 Time 2.34 I37593

[[4 column table]]

No. | Class | Int. | Remark |

54 | B5 | 9 | |

55 | G5 | 5 | |

56 | F5 | 3 | |

57 | K0 | 6 | |

58 | B8 | 6 | |

59 | A3 | 5 | |

60 | F0 | 6 | |

61 | G5 | 2 | |

62 | G | 1 | |

63 | A2 | 7 | |

64 | K | 2 | |

65 | B9 | 3 | |

66 | F5 | 8 | |

67 | F8 | 4 | |

68 | K2 | 3 | |

69 | F | 2 | |

70 | B9 | 3 | |

71 | A2 | 7 | |

72 | G5 | 3 | |

73 | G0 | 2 | |

74 | A5 | 2 | |

104				105			
March 4, 1912 (cont)				March 4, 1912 (cont)			
No.	Class	Int.	Remark	No.	Class	Int.	Remark
54	B5	9		65	B9	3	
55	G5	5		66	F5	8	
56	F5	3		67	F8	4	
57	K0	6		68	K2	3	
58	B8	6		69	F	2	
59	A3	5		70	B9	3	
60	F0	6		71	A2	7	
61	G5	2		72	G5	3	
62	G	1		73	G0	2	
63	A2	7		74	A5	2	
64	K	2					



75 | G0 | 2 | |

76 | G5 | 2 | |

77 | A0 | 8 | |

78 | F0 | 5 | |

79 | K | 1 | |

80 | G5 | 5 | |

105

[[5 column table]]

No. | DM | RA | Dec. | Mg |

54| +1 757 | 4 21 2.9 | +1 3.1 | 5.7 |

55| +1 755 | 4 20 33.0 | +1 32.2 | 6.5 |

56| +2 720 | 4 21 16.9 | +2 3.3 | 8.3 |

57| +1 753 | 4 19 29.6 | +1 45.3 | 6.3 |

58| +0 753 | 4 18 28.9 | +0 40.6 | 8.2 |

59| +1 749 | 4 17 52.4 | +1 52.9 | 8.2 |

60| +2 702 | 4 16 53.0 | +2 8.8 | 8.0 |

61| +2 700 | 4 16 9.6 | +2 42.5 | 8.5 |

62| +2 698 | 4 15 49.8 | +2 44.8 | 9.0 |

63| +2 696 | 4 15 24.1 | +2 33.8 | 7.8 |

64| +2 695 | 4 14 53.7 | +2 43.5 | 8.4 |

65| +3 595 | 4 14 55.2 | +3 4.0 | 8.6 |

66| +2 692 | 4 14 14.3 | +2 3.1 | 7.5 |

67| +0 735 | 4 13 44.9 | +0 30.4 | 8.5 |

68| +0 734 | 4 13 36.5 | +0 50.5 | 8.2 |

69| +1 737 | 4 12 39.5 | +1 37.5 | 8.8 |

70| +1 735 | 4 12 6.3 | +1 51.0 | 8.7 |

71| +1 734 | 4 11 28.7 | +1 23.7 | 8.3 |

72| +1 733 | 4 11 26.2 | +1 25.5 | 8.3 |

73| +0 729 | 4 11 0.9 | +0 55.9 | 8.7 |

74| +0 726 | 4 9 44.4 | +0 32.7 | 9.0 |

75| -0 678 | 4 10 49.0 | -0 8.0 | 8.5 |

76| +0 722 | 4 8 40.2 | +0 13.9 | 8.5 |

77| +0 721 | 4 8 37.0 | +0 4.8 | 7.5 |

78| -0 666 | 4 8 14.4 | -0 22.6 | 7.5 |

79| +0 723 | 4 8 44.3 | +0 53.2 | 8.7 |

80| +1 722 | 4 6 53.8 | +1 17.1 | 8.0 |

[[right margin]]  
cards made out  
[[right margin]]

Project PHaEDRA - Annie Jump Cannon 40  
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106  
March 4, 1912 (cont)  
I 37593  
[[4 column table]]

No. | Class | Int. | Remark

81 | K0 | 3 |  
82 | K0 | 5 |  
83 | G | 2 |  
84 | G0 | 7 |  
85 | K | 1 |  
86 | Ma | 4 |  
87 | F0 | 3 |  
88 | F2 | 9 |  
89 | F5 | 4 |  
90 | G | 2 |  
91 | B9 | 6 |  
92 | F8 | 9 | Line 4077 is seem. Probably like zeta Capricorni.  
93 | F0 | 5 |  
94 | A0 | 6 |  
95 | F8 | 3 |  
96 | K | 2 | E  
97 | G | 2 | E  
98 | F | 9 | E  
99 | ~~[[[strikethrough]]F[[/strikethrough]] A5 | 3 | Focus poor~~  
100 | Mb | 4 |  
101 | A | 3 |  
102 | A | 1 |  
103 | K0 | 6 |  
104 | F5 | 5 |  
105 | K0 | 4 |  
106 | G5 | 3 |  
107 | G | 2 |

107  
Cards made out  
[[5 column table]]

No | DM | RA | Dec | Mg

81 | +1 721 | 4 6 53.8 | +1 52.7 | 8.5  
82 | ~~[[[strikethrough]]0 [[/strikethrough]] 1 719 | 4 5 27.0 | +[[[strikethrough]]]0~~  
~~[[/strikethrough]] 1 32.4 | 7.8~~  
83 | +0 711 | 4 5 9.1 | +0 21.9 | 9.0  
84 | +0 710 | 4 4 43.0 | +0 21.6 | 7.5  
85 | +0 ~~[[[strikethrough]]]5~~ ~~[[/strikethrough]] 07 | 4 2 49.3 | +0 57.7 | 8.0~~  
86 | +1 713 | 4 3 38.0 | +1 56.8 | 8.2  
87 | +1 711 | 4 3 29.5 | +1 34.8 | 9.0  
88 | +2 655 | 4 2 9.3 | +2 56.2 | 7.1  
89 | +3 563 | 4 0 15.8 | +3 54.2 | 8.6  
90 | +3 562 | 4 0 5.7 | +3 55.9 | 9.2  
91 | +3 554 | 3 56 26.0 | +3 26.8 | 8.7  
92 | +2 645 | 3 56 34.8 | +2 25.5 | 5.8  
93 | +2 64 ~~[[[strikethrough]]]1~~ ~~[[/strikethrough]] 0 | 3 55 | ~~[[[strikethrough]]]47.9~~~~  
~~[[/strikethrough]] 45.5 | +[[[strikethrough]]]1~~  
~~[[/strikethrough]] 2 | ~~[[[strikethrough]]]46.7~~~~  
~~[[/strikethrough]] 39.3 | 7. ~~[[[strikethrough]]]8 + 2° 641~~~~  
Superposed  
94 | +3 552 | 3 54 53.4 | +3 25.8 | 7.7  
95 | +1 699 | 3 59 10.6 | +1 17.2 | 8.2  
96 | +3 619 | 4 26 37.6 | +3 27.2 | 8.0

106					107				
March 4, 1912 (cont)									
No.	Class	Int.	Remark		No.	Class	Int.	Remark	
81	K0	3			81	K0	3		
82	K0	5			82	K0	5		
83	G	2			83	G	2		
84	G0	7			84	G0	7		
85	K	1			85	K	1		
86	Ma	4			86	Ma	4		
87	F0	3			87	F0	3		
88	F2	9			88	F2	9		
89	F5	4			89	F5	4		
90	G	2			90	G	2		
91	B9	6			91	B9	6		
92	F8	9	Line 4077 is seem. Probably like zeta Capricorni.		92	F8	9		
93	F0	5			93	F0	5		
94	A0	6			94	A0	6		
95	F8	3			95	F8	3		
96	K	2	E		96	K	2	E	
97	G	2	E		97	G	2	E	
98	F	9	E		98	F	9	E	
99	<del>[[[strikethrough]]F[[/strikethrough]] A5   3   Focus poor</del>				99	<del>[[[strikethrough]]F[[/strikethrough]] A5   3   Focus poor</del>			
100	Mb	4			100	Mb	4		
101	A	3			101	A	3		
102	A	1			102	A	1		
103	K0	6			103	K0	6		
104	F5	5			104	F5	5		
105	K0	4			105	K0	4		
106	G5	3			106	G5	3		
107	G	2			107	G	2		

97 |+3 612|4 23 18.1|+3 9.7|8.8  
 98 |+5 674|4 24 21.8|+~~4~~ ~~5~~ 6.0|7.2  
 99 |+4 700|4 22 12.7|+4 57.5|8.7  
 100|+4 696|4 21 58.3|+4 50.1|7.8  
 101|+3 603|4 19 25.2|+3 57.0|8.9  
 102|+4 692|4 18 54.6|+4 15.4|9.0  
 103|+4 691|4 18 23.1|+4 2.4|7.2  
 104|+4 690|4 18 15.7|+4 48.2|8.0  
 105|~~4~~ ~~5~~ 649|4 17 54.9|~~4~~  
~~5~~ 19.1|7.5  
 106|+3 |596|4|15|30.9|+3 38.6|8.5  
 107|~~4~~ ~~5~~ 683|4 15 23.5|+~~4~~  
~~5~~ 15.9|8.5

Project PHaEDRA - Annie Jump Cannon 40  
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108

Mar 4, 1912  
I 37593  
[[4 column table]]

No.	Class	Int	Remark
108	A0	6	
109	A3	7	
110	G5	2	
111	G5	4	
112	G5	5	
113	A2	2	
114	F	2	
115	A5	3	
116	A0	7	
117	A0	7	
118	A0	6	
119	K	2	
120	F5	4	
121	G5	5	
122	G	2	
123	G	2	
124	K2	2	
125	F2	7	
126	F8	4	
127	A	2	

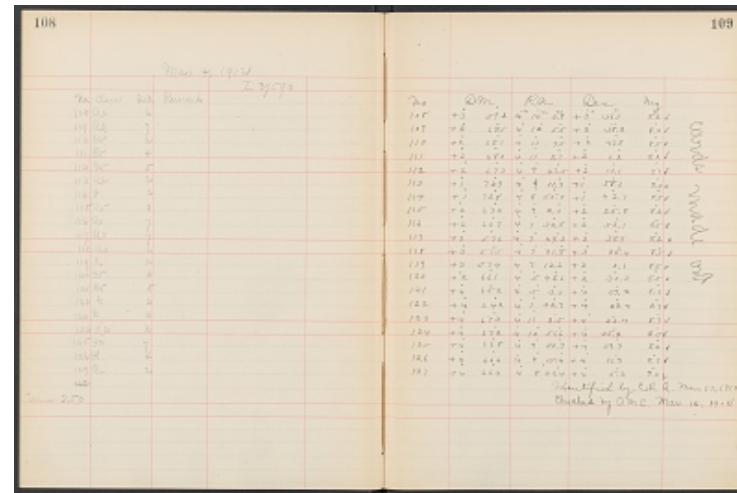
[[~~128~~]]  
Time 2.50

109  
[[right margin]]Cards made out]]

[[5 column table]]

No	DM	RA	Dec	Mg
108	+3	592	4 14 3.9	+3 36.1   8.2
109	+2	685	4 12 5.5	+2 38.2   8.0
110	+2	681	4 11 9.5	+2 47.8   8.5
111	+2	680	4 11 2.7	+2 6.2   8.2
112	+2	673	4 9 47.5	+2 10.1   7.7
113	+1	729	4 9 11.7	+1 58.6   9.0
114	+1	728	4 8 55.0	+1 42.7   8.8
115	+2	670	4 9 2.0	+2 25.8   8.2
116	+2	667	4 7 32.8	+2 53.1   8.5
117	+3	576	4 7 49.3	+3 38.9   8.2
118	+3	575	4 7 31.8	+3 35.4   8.5
119	+3	574	4 7 12.6	+3 0.1   8.5
120	+2	661	4 5 48.6	+2 30.3   8.5
121	+4	652	4 5 3.0	+4 39.2   8.3
122	+4	642	4 1 32.7	+4 22.4   8.7
123	+4	673	4 11 2.5	+4 23.4   8.7
124	+4	672	4 10 51.6	+4 35.2   8.5
125	+4	668	4 9 30.9	+4 39.9   8.2
126	+4	666	4 9 15.4	+4 11.9   8.7
127	+4	664	4 8 43.4	+4 5.3   9.0

Identified by C.L.A Mar 13, 1912



Checked by A.M.C Mar. 14, 1912

Project PHaEDRA - Annie Jump Cannon 40  
Transcribed and Reviewed by Digital Volunteers  
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110

March 5, 1912  
time 12.45 I 37569

[[4 column table]]

No. | Class | Int. | Remark

1	K0	5	
2	A2	10	
3	K0	8	
4	F5	4	
5	F8	3	
6	G	2	Partly superposed on 7
7	G5	4	
8	A2	4	
9	A	2	E.
10	B8	7	Difficult because violet end is superposed on 11
11	G5	6	
12	K2	2	
13	A0	4	
14	A3	7	
15	G	1	
16	K5	10	E.
17	A0	5	
18	F5	2	
19	F5	3	
20	A	3	
21	K	2	
22	A5	2	E.
23	K5	3	
24	K	10	Burned out.
25	K	10+	
26	K	2	
27	B5	7	E

111

Cards made Out

[[5 column table]]

No.	DM	RA	Dec	Mg
1	+27	1395	7 19 39.7	+27 58.5   7.1
2	+28	1396	7 20 17.5	+28 26.1   6.0
3	+28	139	7 20 47.5	+28 13.0   5.0
4	+28	1405	7 21 38.1	+28 12.3   8.0
5	+27	1403	7 22 24.7	+27 55.4   8.1
6	+27	1405	7 23 8.5	+27 24.8   8.0
7	+27	1406	7 23 14.5	+27 25.5   8.0
8	+27	1409	7 23 47.4	+27 57.2   8.5
9	+27	1411	7 24 10.6	+27 44.3   8.8
10	+28	1415	7 25 26.0	+28 43.0   7.7
11	+28	1416	7 25 27.5	+28 59.7   7.0
12	+28	1416	7 25 27.5	+28 59.7   7.0
13	+28	1418	7 25 52.5	+28 34.4   7.8
14	+28	1424	7 26 20.7	+28 56.9   7.3
15	+28	1420	7 27 3.7	+28 56.9   9.0
16	+27	1424	7 26 58.3	+27 12.7   4.2

110					111				
March 5, 1912									
No.	Class	Int.	Remark		No.	DM	RA	Dec	Mg
1	K0	5			1	+27	1395	7 19 39.7	+27 58.5   7.1
2	A2	10			2	+28	1396	7 20 17.5	+28 26.1   6.0
3	K0	8			3	+28	139	7 20 47.5	+28 13.0   5.0
4	F5	4			4	+28	1405	7 21 38.1	+28 12.3   8.0
5	F8	3			5	+27	1403	7 22 24.7	+27 55.4   8.1
6	G	2	Partly superposed on 7		6	+27	1405	7 23 8.5	+27 24.8   8.0
7	G5	4			7	+27	1406	7 23 14.5	+27 25.5   8.0
8	A2	4			8	+27	1409	7 23 47.4	+27 57.2   8.5
9	A	2	E.		9	+27	1411	7 24 10.6	+27 44.3   8.8
10	B8	7	Difficult because violet end is superposed on 11		10	+28	1415	7 25 26.0	+28 43.0   7.7
11	G5	6			11	+28	1416	7 25 27.5	+28 59.7   7.0
12	K2	2			12	+28	1416	7 25 27.5	+28 59.7   7.0
13	A0	4			13	+28	1418	7 25 52.5	+28 34.4   7.8
14	A3	7			14	+28	1424	7 26 20.7	+28 56.9   7.3
15	G	1			15	+28	1420	7 27 3.7	+28 56.9   9.0
16	K5	10	E.		16	+27	1424	7 26 58.3	+27 12.7   4.2
17	A0	5							
18	F5	2							
19	F5	3							
20	A	3							
21	K	2							
22	A5	2	E.						
23	K5	3							
24	K	10	Burned out.						
25	K	10+							
26	K	2							
27	B5	7	E						

17|+28 1426 | 7 28 46.3 | +28 3.5 | 8.2  
 18|+28 142 ~~8~~ ~~7~~ ~~29~~ ~~8~~  
 29.6 ~~24.6~~ | +28 ~~37.5~~ | 8.7  
~~38.0~~ | 9.0  
 19|+29 1578 | 7 31 38.2 | +29 9.6 | 8.8  
 20|+28 1438 | 7 31 49.2 | +28 16.7 | 8.7  
 21|+27 1443 | 7 31 11.6 | +27 38.5 | 8.5  
 22|+27 1454 | 7 33 32.0 | +27 19.8 | 8.7  
 23|+29 1587 | 7 33 36.8 | +29 9.8 | 8.1  
 24|+29 1590 | 7 34 13.3 | +29 13.5 | 5.0  
 25|+28 1463 | 7 36 26.4 | +28 22.2 | 1.2  
 26|+27 1464 | 7 35 37.8 | +27 ~~39.8~~  
 49.3 | 8.4  
 27|+27 1470 | 7 36 58.3 | +27 4.3 | 8.0

Project PHaEDRA - Annie Jump Cannon 40  
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March 5, 1912 (cont)

I37569

[[4 column table]]

No.	Class	Int.	Remark
28	G5	5	
29	G5	7	
30	F0	6	
31	F0	4	
32	A2	8	
33	G0	6	
34	G5	4	
35	G5	7	
36	G5	2	
37	A0	5	
38	K	1	
39	K0	3	
40	A0	9	
41	F	3	Partly superposed on 40
42	A0	10	Burned out
43	F5	6	
44	A	3	
45	G5	2	E.
46	K0	3	E.
47	G0	4	
48	G	2	
49	F2	2	
50	G5	1	
51	K0	2	
52	A0	2	
53	G	2	Poor Focus
54	G0	6	

113

Cards Made out

[[5 column table]]

No	DM	RA	DEC	mg
28	+29 1614	7 38 56.8	+29 1.0	7.5
29	+29 1615	7 39 27.7	+29 7.0	7.2
30	+28 1474	7 40 0.7	+28 55.6	8.0
31	+28 1476	7 40 14.9	+28 49.9	8.2
32	+28 1482	7 40 57.5	+28 33.1	7.3
33	+27 1490	7 41 0.1	+27 43.0	7.7
34	+29 1622	7 41 16.4	+29 4.6	7.9
35	+29 1624	7 42 23.4	+29 31.5	7.2
36	+29 1628	7 42 52.6	+29 32.1	8.2
37	+30 1589	7 43 25.4	+30 17.9	8.1
38	+30 1590	7 43 41.0	+30 5.4	8.7
39	+29 1641	7 45 1.8	+29 34.6	8.3
40	+28 1497	7 44 22.5	+28 24.9	7.1
41	+28 1496	7 44 19.2	+28 16.5	8.4
42	+27 1499	7 44 37.3	+27 8.0	5.0
43	+28 1500	7 46 9.6	+28 45.5	7.3
44	+28 1502	7 47 2.3	+28 4.5	8.5
45	+27 1501	7 46 15.1	+27 28.2	8.8
46	+27 1513	7 48 47.9	+27 53.2	7.7

112

113

47		+29 1645		7 46 26.6		+29 31.8		8.3
48		+29 1651		7 47 17.6		+29 18.5		8.6
49		+29 1653		7 47 43.8		+29 42.7		9.0
50		+29 1654		7 47 55.9		+29 55.0		8.6
51		+29 1656		7 48 52.1		+29 53.8		8.4
52		+29 1658		7 49 21.5		+29 35.8		9.0
53		+28 1513		7 50 15.2		+28 52.9		8.7
54		+29 1664		7 51 32.8		+29 39.1		7.5

Project PHaEDRA - Annie Jump Cannon 40  
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March 5, 1912 (cont.)

137569

[[4 columned table]]

[No.][Class][Int.][Remark]

55[A0]2[E]

56[A0]4[E]

57[A5]5

58[G5]3

59[G5]2

60[G5]2

61[G5]1

62[A0][~~2~~][~~2~~][~~4~~]

63[F5]2 Partly superposed on 62

64[K0]3

65[F5]2

66[K0]5

67[A3]2

68[K1]0

69[G0]5

70[G1]2

71[F2]4

72[F0]4

73[A0]3

74[G5]2

75[B9]6

76[K0]2

77[G5]5

78[A2]

79[F0]9

80[G2]

81[M4]

115

Cards Made out

[[5 columned table]]

[No][DM][RA][Dec][Mg]

55 | +29 1667 | 7 52 25.2 | +29 59.4 | 8.7

56 | + ~~29 1668~~ | ~~7 52 53.8~~ | ~~+29 59.4~~ | ~~8.7~~ | +

~~29 1668~~ | ~~7 52 53.8~~ | ~~+29 59.4~~ | ~~8.7~~ | +

57 | +29 1535 | 7 19 3.4 | +29 42.4 | 7.6

58 | +29 1540 | 7 21 15.4 | +29 29.1 | 8.0

59 | +29 1543 | 7 21 58.1 | +29 4.6 | 8.5

60 | +29 1544 | 7 22 10.8 | +29 30.8 | 8.2

61 | +29 1546 | 7 22 36.9 | +29 7.9 | 8.7

62 | +30 1519 | 7 21 44.8 | +30 52.2 | 8.4

63 | +30 1520 | 7 21 51.2 | +30 52.2 | 8.5

64 | +31 1606 | 7 23 1.4 | +31 24.0 | 8.3

65 | +31 1608 | 7 23 36.6 | +31 35.4 | 8.5

66 | +30 1525 | 7 24 20.9 | +30 55.5 | 7.5

67 | +30 1527 | 7 24 55.7 | +30 41.1 | 9.0

68 | +31 1620 | 7 25 56.4 | +31 16.1 | 6.5

69 | +31 1623 | 7 26 40.7 | +31 1.5 | 8.6

70 | +30 1530 | 7 26 15.0 | +30 32.8 | 8.5

71 | +30 1533 | 7 27 32.9 | +30 5.8 | 8.4

114	115
March 5, 1912 (cont.)	
No. Class Int. Remark	No. Class Int. Remark
55 A0 2 E	55 A0 2 E
56 A0 4 E	56 A0 4 E
57 A5 5	57 A5 5
58 G5 3	58 G5 3
59 G5 2	59 G5 2
60 G5 2	60 G5 2
61 G5 1	61 G5 1
62 A0 <del>2</del> <del>2</del> <del>4</del>	62 A0 <del>2</del> <del>2</del> <del>4</del>
63 F5 2 Partly superposed on 62	63 F5 2 Partly superposed on 62
64 K0 3	64 K0 3
65 F5 2	65 F5 2
66 K0 5	66 K0 5
67 A3 2	67 A3 2
68 K1 0	68 K1 0
69 G0 5	69 G0 5
70 G1 2	70 G1 2
71 F2 4	71 F2 4
72 F0 4	72 F0 4
73 A0 3	73 A0 3
74 G5 2	74 G5 2
75 B9 6	75 B9 6
76 K0 2	76 K0 2
77 G5 5	77 G5 5
78 A2	78 A2
79 F0 9	79 F0 9
80 G2	80 G2
81 M4	81 M4

72		+30	1535		7	27	57.3		+30	<del>5</del>	<del>19.3</del>	
8.5												
73		+29	1562		7	28	16.1		+29	31.0		8.8
74		+31	1634		7	29	7.4		+31	1.3		8.3
75		+31	1633		7	28	15.3		+31	56.0		7.5
76		+31	1635		7	29	9.9		+31	38.8		8.1
77		+32	1592		7	28	52.4		+32	45.5		7.5
78		+32	1593		7	29	2.7		+32	20.5		8.8
79		+32	1599		7	30	37.2		+32	19.8		7.0
80		+32	1611		7	33	39.5		+32	21.1		8.7
81		+32	1613		7	34	12.0		+32	46.2		7.8

Project PHaEDRA - Annie Jump Cannon 40  
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March 5. 1912 (Cou8.)  
137569

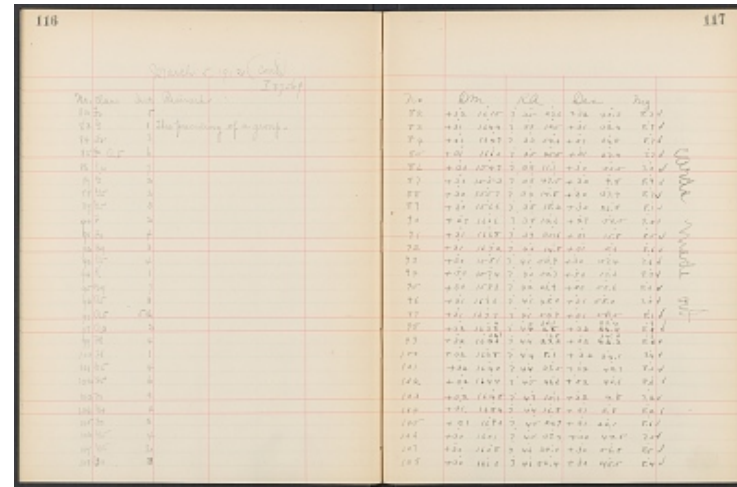
[[4 column table]]  
No.	Class	Int.	Remarks

82 | F0 | 5  
83 | G | 1 | The preceding of a group.  
84 | F5 | 3  
85 | ~~[[crossed out]]~~ F ~~[[/crossed out]]~~ A5 | 6  
86 | K2 | 7  
87 | G | 2  
88 | G5 | 2  
89 | G5 | 3  
90 | F | 2  
91 | F0 | 4  
92 | B9 | 3  
92 | G5 | 4  
94 | K | 1  
95 | B9 | 7  
96 | A5 | 8  
97 | A5 | 5 ~~[[crossed out]]~~ 4 ~~[[/crossed out]]~~  
98 | A3 | 2  
99 | F8 | 4  
100 | F8 | 1  
101 | G5 | 4  
102 | F5 | 6  
103 | F0 | 6  
104 | G0 | 4  
105 | F0 | 4  
106 | G5 | 4  
107 | G5 | 2  
108 | G0 | 3

117

[[5 column table]]  
No | DM | RA | Dec | Mg

82	+32 1615	7 35 27.6	+32 40.3	8.3
83	+31 1644	7 33 12.5	+31 32.4	8.9
84	+01 1649	7 33 54.6	+31 34.8	8.7
85	+31 1660	7 35 25.5	+31 27.4	7.7
86	+30 1549	7 33 11.1	+30 30.5	7.0
87	+30 1553	7 33 47.5	+30 9.8	8.9
88	+30 1557	7 34 14.8	+30 37.9	8.7
89	+30 1566	7 38 18.2	+30 26.8	8.1
90	+29 1606	7 38 14.6	+29 56.5	9.0
91	+31 1668	7 39 35.6	+31 15.8	8.5
92	+31 1672	7 40 14.8	+31 5.6	8.6
93	+30 1581	7 41 53.9	+30 37.4	7.6
94	+30 1574	7 40 50.7	+30 17.6	8.3
95	+30 1583	7 42 21.9	+30 53.6	8.0
96	+31 1676	7 41 48.0	+31 58.0	7.0
97	+31 1677	7 41 53.9	+31 58.5	8.1



98 | +32 1634 ~~7~~ | 7 43  
~~4~~ 22.1 ~~1.8~~ | +32  
 23.4 ~~34.0~~ | 8.9 ~~3~~  
 99 | +32 1637 ~~404~~ | 7 44 1.8  
~~37.5~~ | +32 34.0  
~~42.7~~ | 8.3 ~~0~~  
 100 | +32 1638 | 7 44 8.1 | +32 34.1 | 9.4  
 101 | +32 1640 | 7.44 37.5 | +32 42.7 | 8.0  
 103 | +32 1648 | 7.47 15.1 | +32 4.8 | 7.2  
 104 | +31 1684 | 7 44 16.8 | +31 2.8 | 8.2  
 105 | +31 1690 | 7 45 24.9 | +31 22.1 | 8.6  
 106 | +30 1601 | 7 45 29.4 | +30 44.5 | 7.5  
 107 | +30 1608 | 7 46 24.0 | +30 56.8 | 8.5  
 108 | +30 1610 | 7 46 36.4 | +30 45.5 | 8.4

[[right margin]] cards made out [[/right margin]]











eeee



+++++tt+eee+++++-----r4za













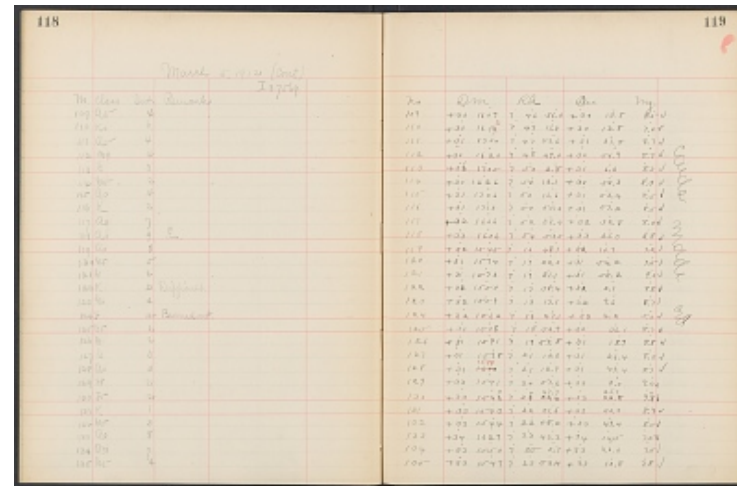
Project PHaEDRA - Annie Jump Cannon 40  
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Extracted Dec-02-2022 11:31:25

118  
March 5, 1912 (Cont)  
I37569  
[[4 column table]]

No.	Class	Int.	Remark
109	A5	4	
110	K0	6	
111	A5	4	
112	B9	4	
113	G	3	
114	G5	2	
115	A0	4	
116	K	2	
117	A0	7	
118	A0	9	E.
119	A0	8	
120	G5	5	
121	G	2	
122	K	2	Different.
123	G0	4	
124	F	10+	Burned out
125	G5	2	
126	G	2	
127	G	3	
128	A0	3	
129	F8	2	
130	F5	2	
131	K	1	
132	G5	3	
133	A0	8	
134	A2	7	
135	G5	4	

119  
Cards made out  
[[5 column table]]

No.	DM	RA	Dec	Mg.
109	+30 1609	7 46 36.0	+30 13.8	8.5
110	+30 1611	7 47 11.0	+30 13.8	7.0
111	+30 1700	7 47 56.6	+31 31.8	8.7
112	+30 1620	7 48 49.0	+30 50.9	8.7
113	+31 1705	7 50 2.8	+31 6.6	8.3
114	+30 1626	7 50 13.1	+30 50.3	8.3
115	+31 1706	7 50 16.6	+31 53.4	8.5
116	+31 1710	7 50 55.3	+31 57.2	8.5
117	+32 1666	7 52 36.4	+32 32.8	8.0
118	+33 1636	7 54 53.5	+33 26.3	6.8
119	+32 1545	7 16 48.1	+32 10.7	7.2
120	+31 1574	7 17 22.0	+31 54.2	7.5
121	+31 1576	7 17 31.1	+31 53.2	9.0
122	+32 1550	7 17 38.4	+32 2.1	8.8
123	+32 1559	7 19 17.1	+32 9.6	8.7
124	+32 1562	7 19 47.1	+32 4.2	5.0
125	+30 1508	7 18 52.9	+30 36.1	8.7
126	+31 1591	7 19 57.8	+31 18.9	8.8
127	+31 1598	7 21 10.0	+31 26.4	8.0



128	+31	1599	7 21	12.9	+31	49.4	8.7
129	+33	1541	7 20	57.6	+33	0.0	9.0
130	+33	1540	7 20	47.7	+33	23.7	9.0
131	+33	1543	7 22	31.6	+33	30.3	8.9
132	+33	1544	7 22	58.2	+33	49.4	8.5
133	+34	1629	7 23	43.3	+34	14.5	7.5
134	+33	1550	7 25	0.7	+33	26.0	7.5
135	+33	1547	7 23	63.4	+33	10.8	7.8

Project PHaEDRA - Annie Jump Cannon 40  
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March 5, 1912 (cont.)  
I 37569

[4 column table]

No.	Class	Int.	Remark
136	K0	3	
137	A	2	
138	A	10+	Burned Out
139	G0	5	
140	G0	3	
141	F0	5	
142	G0	5	
143	A2	2	
144	A2	3	
145	F8	3	
146	F5	8	
147	F2	3	
148	A3	6	
149	A2	7	
150	G	2	
151	K	2	
152	G5	4	
153	K2	8	
154	G5	3	
155	G5	4	
156	G0	5	Ceres
157	A	2	
158	G0	3	
159	F2	5	
160	K0	2	
161	F2	2	
162	A0	10	

121  
Cards Made Out

[5 column table]

No.	DM	RA	Dec.	Mg.
136	+3	<del>1577</del>	7 24 10.5	+32 55.6   8.0
137	+3	<del>1576</del>	7 23 59.7	+32 <del>55.6</del>   8.7
138	+32	1581	7 25 20.7	+32 11.9   1.7
139	+33	1554	7 26 52.9	+33 9.3   8.0
140	+34	1645	7 28 45.1	+34 2.0   8.5
141	+34	1646	7 29 5.8	+34 1.9   7.9
142	+33	1560	7 28 56.6	+33 30.2   7.0
143	+33	1561	7 29 52.5	+33 8.7   9.1
144	+33	1562	7 30 13.8	+33 17.4   9.0
145	+33	1566	7 32 9.2	+33 44.5   8.4
146	+34	1657	7 33 19.7	+34 20.5   6.5
147	+33	1570	7 34 5.1	+33 28.6   8.5
148	+34	1669	7 36 14.9	+34 54.0   7.9
149	+35	1679	7 37 36.6	+35 18.4   7.5
150	+34	1668	7 36 8.1	+34 25.6   8.4
151	+34	1667	7 36 5.4	+34 10.5   8.7
152	+33	1584	7 38 1.5	+33 55.8   8.0

153 | +33 1585 | 7 38 8.6 | +33 46.2 | 5.3  
 154 | +33 1583 | 7 37 55.7 | +33 22.3 | 7.5  
 155 | +33 1587 | 7 38 48.1 | +33 11.7 | 7.3  
 156 | ~~[[strikethrough]]~~ +32 1626 | 7 39 40.9 | +32 50.0 | 9.0  
~~[[/strikethrough]]~~ Ceres  
 157 | +31 16 ~~[[strikethrough]]~~ 5 ~~[[/strikethrough]]~~ 62 | 7 36 34.0 | +31  
 55.1 | 9.0  
 158 | +3 ~~[[strikethrough]]~~ 3 1589 7 37 3.7 | +33 37.4 | 8.0  
~~[[/strikethrough]]~~ 2 1620 | 7 37 54.1 | +32 17.4 | 8.5  
 159 | +33 1589 | 7 39 3.7 | +33 37.1 | 8.0  
 160 | +34 167 ~~[[strikethrough]]~~ 1 ~~[[/strikethrough]]~~ 8 | 7 38 57.5 | +34 3.5 |  
 8.5  
 161 | +33 1595 | 7 40 7.4 | +33 41.9 | 8.9  
 162 | +33 1601 | 7 41 44.6 | +33 36.3 | 6.5

Project PHaEDRA - Annie Jump Cannon 40  
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March 5, 1912 (cont)  
 137569  
 [[four coulomb graph]]  
 No. | Class | Sub. | Reewurh |  
 163 | G | 2 | | |  
 164 | F5 | 4 | | |  
 165 | B9 | 4 | | |  
 166 | K0 | 2 | | |  
 167 | K0 | 2 | | |  
 168 | G0 | 3 | | |  
 169 | A | 2 | | |  
 170 | A2 | 7 | | |  
 171 | K0 | 3 | | |  
 172 | G | 2 | | |  
 173 | K | 1 | | |  
 174 | K | 2 | | |  
 175 | A0 | 6 | | |  
 176 | Ma | 5 | | Focus porv. |  
 177 | K0 | 7 | | |  
 178 | K | 4 | | Focus porv. |  
 179 | MB | 4 | | E |  
 180 | F | 6 | | E |  
 181 | K0 | 6 | | E |  
 181 | B9 | 3 | | |  
 182 | K0 | 3 | | |  
 183 | A0 | 2 | | |  
 184 | G5 | 4 | | |  
 185 | A0 | 6 | | |  
 186 | K2 | 4 | | |  
 187 | A2 | 2 | | |  
 188 | K5 | 5 | | Focus porv. |  
 189 | F5 | 6 | | |

122					123				
March 5, 1912 (cont)									
No.	Class	Sub.	Reewurh		No.	Class	Sub.	Reewurh	
163	G	2			169	A	2		
164	F5	4			170	A2	7		
165	B9	4			171	K0	3		
166	K0	2			172	G	2		
167	K0	2			173	K	1		
168	G0	3			174	K	2		
169	A	2			175	A0	6		
170	A2	7			176	Ma	5		Focus porv.
171	K0	3			177	K0	7		
172	G	2			178	K	4		Focus porv.
173	K	1			179	MB	4		E
174	K	2			180	F	6		E
175	A0	6			181	K0	6		E
176	Ma	5		Focus porv.	181	B9	3		
177	K0	7			182	K0	3		
178	K	4		Focus porv.	183	A0	2		
179	MB	4		E	184	G5	4		
180	F	6		E	185	A0	6		
181	K0	6		E	186	K2	4		
181	B9	3			187	A2	2		
182	K0	3			188	K5	5		Focus porv.
183	A0	2			189	F5	6		
184	G5	4							
185	A0	6							
186	K2	4							
187	A2	2							
188	K5	5		Focus porv.					
189	F5	6							

Project PHaEDRA - Annie Jump Cannon 40  
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March 5, 1912 (cont)

I 37569

[[four column table]]

No.	Class	Int.	Remark
190	K	3	
191	G	3	
192	G5	3	
193	G5	6	E
194	G	2	
195	F	4	
196	F0	3	
197	F	2	
198	F2	2	
199	B9	4	
200	F	2	
201	A5	2	
202	G5	9	
203	F	10	
204	K2	1	
205	F2	4	
206	K	2	
207	G	3	
208	F0	7	
209	A0	5	
210	F0	6	
211	K2	5	
212	Ma	4	
213	F8	6	
214	G5	6	
215	F0	5	
216	K	3	
217	G	3	

[[4 columned table]]

[[multiple marks throughout the document]]

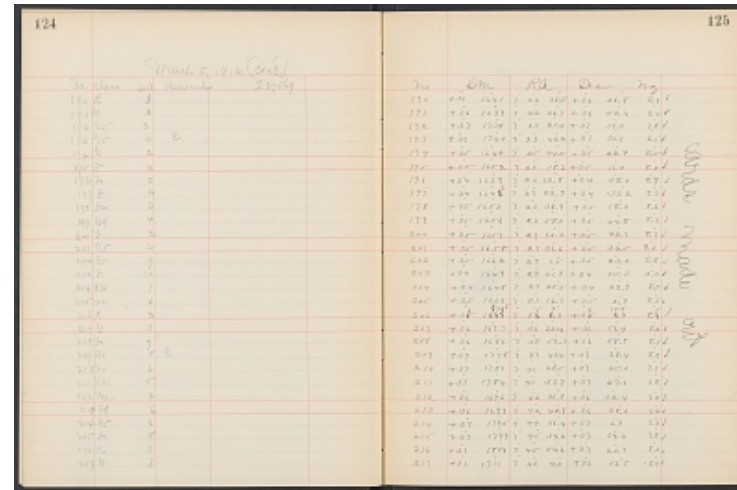
[[Check mark at the end of every row]]

[[Cards made out" written vertically in the right margin]]

125

No|Dm|Ra|Dec Mg|

190	+36	1641	7 22 38.8	+36 26.8 8.1
191	+36	1639	7 22 26.7	+36 50.4 8.4
192	+37	1738	7 23 20.4	+37 19.3 7.8
193	+37	1740	7 23 42.2	+37 30.1 6.5
194	+35	1649	7 25 44.5	+35 22.9 8.5
195	+35	1652	7 26 18.2	+35 11.0 8.0
196	+34	1639	7 26 32.8	+34 38.0 8.7
197	+34	<del>1643</del>	<del>7 27 22.9</del>	+34 37.2 9.3
198	+35	1653	7 26 38.9	+35 18.0 8.6
199	+35	1656	7 26 58.0	+35 44.8 8.3
200	+35	1657	7 27 10.3	+35 42.7 8.7
201	+35	1658	7 27 31.6	+35 34.5 9.0
202	+35	1662	7 29 1.5	+35 23.0 5.8
203	+34	1649	7 29 41.9	+34 55.3 5.0
204	+34	1648	7 29 25.5	+34 22.9 8.5
205	+35	1666	7 31 12.7	+35 0.9 8.3
206	<del>1669</del>	<del>1776</del>	<del>1675</del>	<del>1675</del>

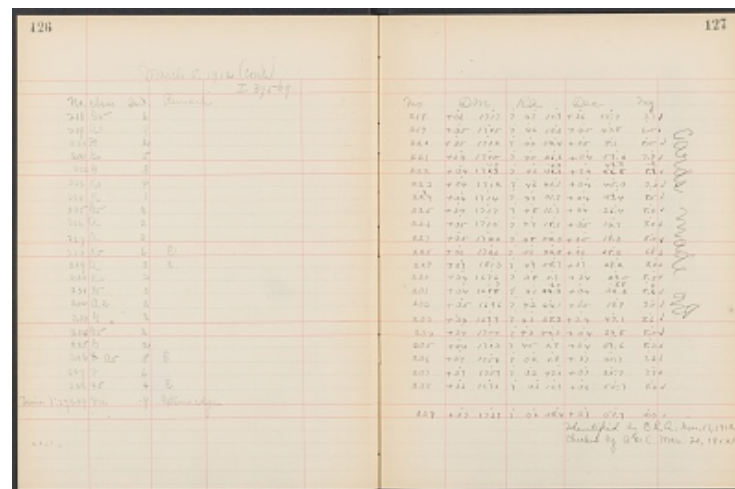


through]]32[[/strike through]]35 [[strike through 2.6[[/strike through]]  
 9.6[[/strike through]]+35[[/strike through]]+36 [[strike through]] 4.3  
 [[/strike through]] 10.8 [[strike through]] 8.7 [[/strike through]] 8.5|  
 207|+36 1677|7 36 22.4|+36 19.4 8.2|  
 208|+36 1686|7 38 52.3|+36 58.9 8.1|  
 209|+37 1778|7 39 43.4|+37 28.4 8.3|  
 210|+37 1781|7 41 28.5|+37 35.0 7.7|  
 211|+37 1784|7 41 37.9|+37 27.0 6.8|  
 212|+36 1696|7 42 36.9|+36 32.4 7.0|  
 213|+36 1697|7 42 42.9|+36 38.0 7.4|  
 214|+37 1795|7 44 36.4|+37 6.9 7.3|  
 215|+37 1799|7 45 34.2|+37 34.2 7.8|  
 216|+37 1800|7 45 54.6|+37 20.7 8.0|  
 217|+36 1711|7 46 4.0|+36 52.8 8.0|

Project PHaEDRA - Annie Jump Cannon 40  
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March 5, 1912 (cont)  
137569

Time 1:27|239|Ma |9 |Extreme edge



Project PHaEDRA - Annie Jump Cannon 40  
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March 6, 1912  
137571  
Time 3.30

[[4 column table]]

No. | Class | Int. | Remark |

1 | K0 | 4 | --- |  
2 | G5 | 4 | --- |  
3 | G3 | 3 | Focus poor |  
4 | K0 | 3 | --- |  
5 | K0 | 4 | --- |  
6 | G3 | 3 | --- |  
7 | B9 | 4 | E. |  
8 | G3 | 3 | --- |  
9 | K0 | 2 | --- |  
10 | F0 | 10 | --- |  
11 | B | 10+ | Burned out. B5? |  
12 | F8 | 3 | --- |  
13 | F8 | 6 | --- |  
14 | K1 | 1 | --- |  
15 | G5 | 3 | --- |  
16 | G2 | 2 | --- |  
17 | F5 | 1 | Difficult |  
18 | G2 | 2 | --- |  
19 | K2 | 3 | --- |  
20 | F0 | 4 | --- |  
21 | F1 | 1 | --- |  
22 | F5 | 3 | --- |  
23 | F8 | 5 | --- |  
24 | G2 | 2 | --- |  
25 | G0 | 4 | --- |  
26 | G5 | 2 | --- |  
27 | F2 | 2 | --- |

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[[5 column table]]

No. | DM. | RA. | Dec. | Mg. |

1 | +17 2156 | 9 49 37.9 | +17 9.1 | 7.1 |  
2 | +15 2141 | 9 50 18.4 | +15 55.2 | 7.7 |  
3 | +16 2055 | 9 52 1.3 | +16 52.3 | 8.5 |  
4 | +16 2059 | 9 52 39.6 | +16 33.3 | 7.5 |  
5 | +16 2061 | 9 53 27.5 | +16 23.1 | 8.0 |  
6 | +16 2064 | 9 54 9.5 | +16 3.5 | 8.3 |  
7 | +15 2156 | 9 54 36.6 | +15 17.0 | 8.0 |  
8 | +16 2067 | 9 54 37.4 | +16 44.6 | 8.8 |  
9 | +15 2164 | 9 57 12.7 | +15 50.7 | 7.8 |  
10 | +16 2077 | 9 57 48.9 | +16 26.7 | 6.9 |  
11 | +17 2171 | 9 59 25.4 | +17 28.7 | 3.4 |  
12 | +16 2080 | 9 59 46.7 | +15 59.9 | 8.6 |  
13 | +15 2167 | 9 59 49.0 | +15 52.8 | 7.5 |  
14 | +17 2177 | 10 1 57.3 | +17 29.0 | 9.0 |  
15 | +17 2179 | 10 2 14.3 | +17 13.6 | 8.2 |  
16 | +16 2088 | 10 1 50.9 | +16 38.9 | 8.3 |  
17 | +15 2168 | 10 1 34.0 | +15 56.0 | 8.8 |  
18 | +16 2087 | 10 1 42.8 | +16 3.9 | 8.5 |  
19 | +16 2090 | 10 2 49.9 | +16 45.2 | 8.3 |

128	129
March 6, 1912	
Time 3.30	
No.   Class   Int.   Remark	No.   DM.   RA.   Dec.   Mg.
1   K0   4   ---	1   +17 2156   9 49 37.9   +17 9.1   7.1
2   G5   4   ---	2   +15 2141   9 50 18.4   +15 55.2   7.7
3   G3   3   Focus poor	3   +16 2055   9 52 1.3   +16 52.3   8.5
4   K0   3   ---	4   +16 2059   9 52 39.6   +16 33.3   7.5
5   K0   4   ---	5   +16 2061   9 53 27.5   +16 23.1   8.0
6   G3   3   ---	6   +16 2064   9 54 9.5   +16 3.5   8.3
7   B9   4   E.	7   +15 2156   9 54 36.6   +15 17.0   8.0
8   G3   3   ---	8   +16 2067   9 54 37.4   +16 44.6   8.8
9   K0   2   ---	9   +15 2164   9 57 12.7   +15 50.7   7.8
10   F0   10   ---	10   +16 2077   9 57 48.9   +16 26.7   6.9
11   B   10+   Burned out. B5?	11   +17 2171   9 59 25.4   +17 28.7   3.4
12   F8   3   ---	12   +16 2080   9 59 46.7   +15 59.9   8.6
13   F8   6   ---	13   +15 2167   9 59 49.0   +15 52.8   7.5
14   K1   1   ---	14   +17 2177   10 1 57.3   +17 29.0   9.0
15   G5   3   ---	15   +17 2179   10 2 14.3   +17 13.6   8.2
16   G2   2   ---	16   +16 2088   10 1 50.9   +16 38.9   8.3
17   F5   1   Difficult	17   +15 2168   10 1 34.0   +15 56.0   8.8
18   G2   2   ---	18   +16 2087   10 1 42.8   +16 3.9   8.5
19   K2   3   ---	19   +16 2090   10 2 49.9   +16 45.2   8.3
20   F0   4   ---	
21   F1   1   ---	
22   F5   3   ---	
23   F8   5   ---	
24   G2   2   ---	
25   G0   4   ---	
26   G5   2   ---	
27   F2   2   ---	

20 +16 2091	10 2 51.3	+16 25.8	7.7
21 +16 2092	10 3 16.2	+16 13.4	8.8
22 +17 2180	10 3 52.8	+17 58.9	8.6
23 +18 2330	10 4 36.9	+18 1.4	8.1
24 +17 2181	10 4 25.3	+17 2.9	8.9
25 +17 2183	10 5 8.0	+17 15.0	8.3
26 +17 2185	10 5 15.3	+17 44.6	8.6
27 +17 2189	10 6 47.5	+17 30.9	9.3

[[right margin]] cards made out [[/right margin]]

Project PHaEDRA - Annie Jump Cannon 40  
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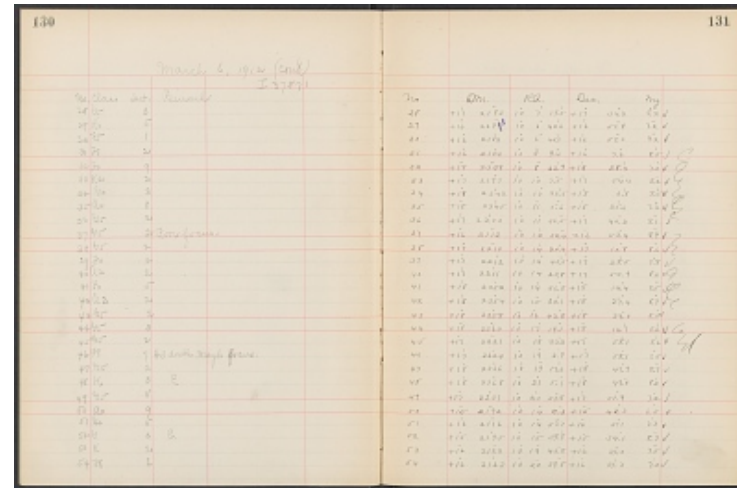
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March 6, 1912 (Cont)  
137571

[[4 column table]]  
No.|Class|Int.|Remark|  
28|G5|3|---|  
29|K0|5|---|  
30|F5|1|---|  
31|F8|2|---|  
32|F0|9|---|  
33|K2|2|---|  
34|G0|3|---|  
35|A0|8|---|  
36|G5|2|---|  
37|G5|2|Poor focus.|  
38|G5|2|---|  
39|F0|4|---|  
40|A2|2|---|  
41|F0|5|---|  
42|A2|2|---|  
43|G5|2|---|  
44|G5|3|---|  
45|G5|2|---|  
46|F8|7|Hd double. Maybe focus.|  
47|G5|2|---|  
48|K|3|E|  
49|G5|5|---|  
50|A0|9|---|  
51|G0|5|---|  
52|G|3|E|  
53|K|2|---|  
54|F8|6|---|

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[[5 column table]]  
No|Dm.|Ra.|Dec.|Mg.|  
28|+17 2192|10 7 19.5|+17 34.2|8.2|  
29|+16 209|~~10 7 19.5~~|~~+17 34.2~~|8.2|  
30|+16 2100|10 6 45.1|+16 57.0|9.2|  
31|+16 2104|10 8 9.4|+16 7.6|8.5|  
32|+18 2338|10 8 22.9|+18 28.4|7.0|  
33|+17 2197|10 10 7.5|+17 54.4|8.2|  
34|+18 2342|10 10 26.5|+18 6.8|8.5|  
35|+18 2345|10 11 5.6|+18 25.6|7.2|  
36|+17 2203|10 11 36.5|+17 40.2|8.1|  
37|+16 2112|10 12 32.4|+16 53.4|8.9|  
38|+17 2210|10 14 20.4|+17 10.8|8.6|  
39|+17 2212|10 14 43.5|+17 28.5|7.8|  
40|+17 2211|10 14 23.8|+17 50.9|8.6|  
41|+18 2352|10 14 36.8|+18 14.4|7.5|  
42|+18 2354|10 15 20.1|+18 27.4|8.9|  
43|+18 2358|10 16 43.8|+18 39.0|8.5|  
44|+18 2360|10 17 19.1|+18 14.7|8.2|  
45|+17 2221|10 18 33.2|+17 58.1|8.6|  
46|+17 2224|10 19 2.9|+17 58.1|7.5|  
47|+18 2366|10 19 17.6|+18 47.9|8.7|



48 +18 2368 10 21 5.1 +18 49.0 8.2
49 +17 2231 10 20 53.8 +17 51.9 7.2
50 +15 2192 10 14 3.3 +15 42.3 6.3
51 +16 2116 10 14 57.7 +16 5.1 7.3
52 +15 2195 10 15 59.8 +15 34.1 8.7
53 +16 2122 10 19 40.8 +16 31.0 7.5
54 +16 2123 10 20 39.8 +16 31.3 7.0

[[right margin]] cards made out [[/right margin]]

Project PHaEDRA - Annie Jump Cannon 40  
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march 6, 1912(Cont)  
137571

[[4 column table]]

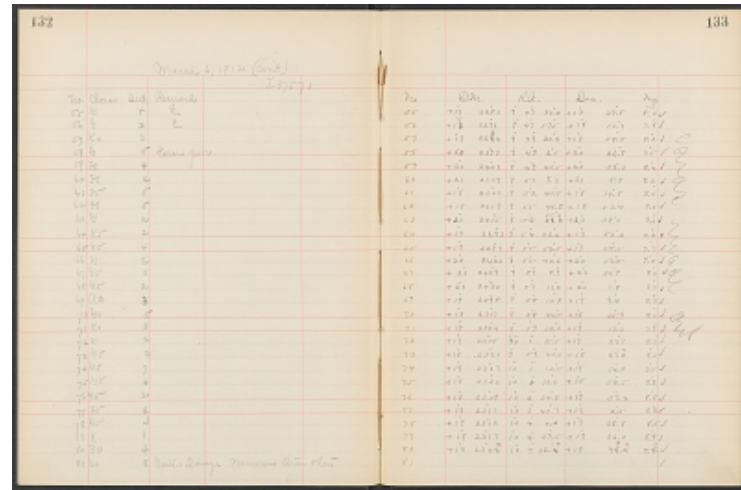
No.|Class |Int. |Remark  
--|--|--

55|G |4 |E  
56|G |3 |E  
57|K0 |3 |  
58|G |5 |Focus poor  
59|F8 |4 |  
60|F8 |2 |  
61|F5 |5 |  
62|F8 |5 |  
63|G |2 |  
64|K5 |2 |  
65|G5 |4 |  
66|G |2 |  
67|G5 |3 |  
68|G5 |2 |  
69|A3 |3 |  
70|G0 |5 |  
71|K0 |3 |  
72|G |2 |  
73|G5 |2 |  
74|G5 |7 |  
75|G5 |4 |  
76|G5 |2 |  
77|F5 |4 |  
78|G5 |4 |  
79|K |1 |  
80|F2 |4 |  
81|G0 |8 |Vesta image narrow the others

133

[[5 column table]]  
No|Dm.|Ra.|Dec.|Mg  
--|--|--|--

55|+19 2283|9 47 33.2|+19 29.8|8.0  
56|+1|~~7~~|~~7~~|~~2291~~|9 47 57.5|+18 13.7|7.8  
57|+19 22|~~9~~|~~84~~|9 49 20.4|+19 58.8|8.0  
58|+20 2399|9 49 2.5|+20 26.9|7.5  
59|+20 2407|9 49 40.5|+20 52.3|8.4  
60|+21 2139|9 51 9.3|+21 5.8|9.0  
61|+18 2303|9 52 45.5|+18 14.8|8.0  
62|+18 2309|9 55 46.8|+18 53.4|8.0  
63|+20 2415|9 52 |~~39.3~~|~~51.0~~|+20 39.3|9.0  
64|+19 2293|9 54 23.2|+19 50.2|8.2  
65|+19 2297|9 55 54.5|+19 38.5|7.7  
66|+20 2423|9 55 40.6|+20 57.5|9.0





67|+20 2429|9 57 8.9|+20 36.9|8.0  
 68|+20 2430|9 57 11.2|+20 7.8|7.7  
 69|+19 2298|9 58 10.8|+19 9.4|8.3  
 70|+18 2317|9 58 44.5|+18 35.9|8.0  
 71|+19 2304|9 59 52.6|+19 13.6|7.9  
 72|+19 2305|~~9~~10 0 15.5|+19 13.6|7.9  
 73|+18 2320|9 59 40.5|+18 27.~~0~~4|9.0  
 74|+19 2307|10 1 10.5|+19 14.2|7.5  
 75|+18 2326|10 2 10.6|+18 54.5|8.2  
 76|+19 2309|10 2 34.8|+19 37.4|8.8  
 77|+19 2311|10 3 40.7|+19 2.5|8.2  
 78|+19 2312|10 4 0.0|+19 38.8|8.5  
 79|+19 2317|10 4 37.5|+19 36.0|8.9  
 80|+19 232~~2~~1~~1~~2|10 7  
 12.~~4~~0|+19  
 4~~8.5~~9.6~~8~~8~~h~~1  
 81| | |

[[right margin]] cards made out [[/right margin]]

Project PHaEDRA - Annie Jump Cannon 40  
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134	March 6, 2012 (cont)		
I37571			
No.	Class	Int.	Remark
82	K2 3		
83	K0 2		
84	K0 4		
85	K10+		Burned out.
86	F5 10		
87	F0 4		
88	G 2		
89	G5 5		
90	K 2	Partly superposed	on 88
91	G0 3		
92	A2 3		
93	F 3	May be F5 E	
94	G5 5 E		
95	G5 3 E		
96	F8 4 E		
97	F8 5 E		
98	K0 7 E		
99	K0 3 E		
100	F8 5 E		
101	G 2 E		
101a	G 2		
102	K 3 E		
103	K 2 E		
104	G 5 E		
105	G 5 E		
106	F5 5		
107	A2 8		
108	A3 3		

135  
[[Check mark after every last column entry]]  
[[["Cards made out" scribbled down the page starting at 84 ending at 98]]  
[[5 column table]]

No.	[DM.]	[Ra.]	[Dec.]	[Mg.]
82	+20 2460	10 9 47.7	+20 43.1	8.2
83	+21 2172	10 11 14.4	+21 17.0	8.5
84	+21 2175	10 11 56.2	+21 8.3	8.2
85	+20 2467	10 11 57.9	+20 35.0	2.0
86	+20 2466	10 11 50.6	+20 12.7	5.9
87	+20 2470	10 12 52.2	+20 15.3	8.5
88	+20 2474	10 13 58.3	+20 31.8	9.0
89	+19 2335	10 15 4.9	+19 51.2	7.7
90	+20 2475	10 13 59.0	+20 47.3	9.0
91	+20 2481	10 16 0.0	+20 18.4	9.1
92	+20 2484	10 18 10.2	+20 7.7	8.7
93	+21 2193	10 18 16.0	+21 1.4	8.7
94	+21 2195	10 19 3.2	+21 10	7.7
95	+20 2489	10 19 48.1	+20 52.3	8.6
96	+20 2488	10 19 17.3	+20 33.5	8.6
97	+20 2486	10 18 59.7	+20 14.6	8.5
98	+20 2487	10 19 7.4	+20 6.2	6.8

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March 6, 1904 (Contd.)

1904

Time	Loc.	Remarks
10:15	11	
10:20	12	
10:25	13	
10:30	14	
10:35	15	Remarks not
10:40	16	
10:45	17	
10:50	18	
10:55	19	
11:00	20	Left baggage car
11:05	21	
11:10	22	
11:15	23	
11:20	24	
11:25	25	
11:30	26	
11:35	27	
11:40	28	
11:45	29	
11:50	30	
11:55	31	
12:00	32	
12:05	33	
12:10	34	
12:15	35	
12:20	36	
12:25	37	
12:30	38	
12:35	39	
12:40	40	
12:45	41	
12:50	42	
12:55	43	
13:00	44	
13:05	45	
13:10	46	
13:15	47	
13:20	48	
13:25	49	
13:30	50	
13:35	51	
13:40	52	
13:45	53	
13:50	54	
13:55	55	
14:00	56	
14:05	57	
14:10	58	
14:15	59	
14:20	60	
14:25	61	
14:30	62	
14:35	63	
14:40	64	
14:45	65	
14:50	66	
14:55	67	
15:00	68	
15:05	69	
15:10	70	
15:15	71	
15:20	72	
15:25	73	
15:30	74	
15:35	75	
15:40	76	
15:45	77	
15:50	78	
15:55	79	
16:00	80	
16:05	81	
16:10	82	
16:15	83	
16:20	84	
16:25	85	
16:30	86	
16:35	87	
16:40	88	
16:45	89	
16:50	90	
16:55	91	
17:00	92	
17:05	93	
17:10	94	
17:15	95	
17:20	96	
17:25	97	
17:30	98	
17:35	99	
17:40	100	
17:45	101	
17:50	102	
17:55	103	
18:00	104	
18:05	105	
18:10	106	
18:15	107	
18:20	108	
18:25	109	
18:30	110	
18:35	111	
18:40	112	
18:45	113	
18:50	114	
18:55	115	
19:00	116	
19:05	117	
19:10	118	
19:15	119	
19:20	120	
19:25	121	
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19:40	124	
19:45	125	
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19:55	127	
20:00	128	
20:05	129	
20:10	130	
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20:20	132	
20:25	133	
20:30	134	
20:35	135	
20:40	136	
20:45	137	
20:50	138	
20:55	139	
21:00	140	
21:05	141	
21:10	142	
21:15	143	
21:20	144	
21:25	145	
21:30	146	
21:35	147	
21:40	148	
21:45	149	
21:50	150	
21:55	151	
22:00	152	
22:05	153	
22:10	154	
22:15	155	
22:20	156	
22:25	157	
22:30	158	
22:35	159	
22:40	160	
22:45	161	
22:50	162	
22:55	163	
23:00	164	
23:05	165	
23:10	166	
23:15	167	
23:20	168	
23:25	169	
23:30	170	
23:35	171	
23:40	172	
23:45	173	
23:50	174	
23:55	175	
24:00	176	
24:05	177	
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25:00	188	
25:05	189	
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25:30	194	
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25:40	196	
25:45	197	
25:50	198	
25:55	199	
26:00	200	
26:05	201	
26:10	202	
26:15	203	
26:20	204	
26:25	205	
26:30	206	
26:35	207	
26:40	208	
26:45	209	
26:50	210	
26:55	211	
27:00	212	
27:05	213	
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27:20	216	
27:25	217	
27:30	218	
27:35	219	
27:40	220	
27:45	221	
27:50	222	
27:55	223	
28:00	224	
28:05	225	
28:10	226	
28:15	227	
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28:30	230	
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29:00	236	
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29:55	247	
30:00	248	
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30:40	256	
30:45	257	
30:50	258	
30:55	259	
31:00	260	
31:05	261	
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31:55	271	
32:00	272	
32:05	273	
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35:40	316	
35:45	317	
35:50	318	
35:55	319	
36:00	320	
36:05	321	
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36:55	331	
37:00	332	
37:05	333	
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37:40	340	
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37:50	342	
37:55	343	
38:00	344	
38:05	345	
38:10	346	
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38:40	352	
38:45	353	
38:50	354	
38:55	355	
39:00	356	
39:05	357	
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39:50	366	
39:55	367	
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40:05	369	
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40:35	375	
40:40	376	
40:45	377	
40:50	378	
40:55	379	
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41:05	381	
41:10	382	
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41:20	384	
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41:35	387	
41:40	388	
41:45	389	
41:50	390	
41:55	391	
42:00	392	
42:05	393	
42:10	394	
42:15	395	
42:20	396	
42:25	397	
42:30	398	
42:35	399	
42:40	400	
42:45	401	
42:50	402	
42:55	403	
43:00	404	
43:05	405	
43:10	406	
43:15	407	
43:20	408	
43:25	409	
43:30	410	
43:35	411	
43:40	412	
43:45	413	
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43:55	415	
44:00	416	
44:05	417	
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44:40	424	
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44:55	427	
45:00	428	
45:05	429	
45:10	430	
45:15	431	
45:20	432	
45:25	433	
45:30	434	
45:35	435	
45:40	436	
45:45	437	
45:50	438	
45:55	439	
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46:05	441	
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46:45	449	
46:50	450	
46:55	451	
47:00	452	
47:05	453	
47:10	454	
47:15	455	
47:20	456	
47:25	457	
47:30	458	
47:35	459	
47:40	460	
47:45	461	
47:50	462	
47:55	463	
48:00	464	
48:05	465	
48:10	466	

|99|+19 2345|10 20 6.6|+19 19.4 | 8.6|  
 |100|+19 2346|10 20 26.0|+19 39.9 | 8.5|  
 |101|[[~~2204~~]+20[[~~2349~~]]+19[[~~22~~]]  
 |21[[~~23.2~~]]13.3|[[~~51.7~~]]  
 |40.6 |[[~~8.8~~]]9.2  
101a	+21 2204	10 22 23.2	+21 51.7	8.8
102	+21 2201	10 22 2.9	+21 25.2	8.6
103	+22 2227	10 22 23.0	+22 17.9	8.5
104	+21 2202	10 22 10.6	+21 33.8	8.2
105	+21 [[~~2138~~]] 2128	9 48 51.8	+21	
28.5	8.6			
106	+21 2133	9 49 59.5	+21 40.5	8.5
107	+22	2148	9 51 24.3	+22 1.6
108	+22 2153	9 52 28.8	+22 10.1	8.7

Project PHaEDRA - Annie Jump Cannon 40  
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[[4 columned table]]

136

March 6, 1612 (cont.)

[No.] [Class] [Int] [Remark]

109|A5 2|Focus very poor|

110|K 2|||

111|B3 10|||

112|K0 3|||

113|G5 2|||

114|F5 3|||

115|G5 1|||

116|K 21|||

117|K0 5|||

118|K 2|||

119|K 2|||

120|A0 6|||

121|comp 7| Br = F5 Ft=A Line K = 2/10 of H.|

122|F0 6|||

123|F0 7|||

124|G 1|||

125|F8 2|||

126|G5 5|||

127|~~F0~~|~~F2 5~~|||

128|F5 8|||

129|F5 3|||

130|F5 5|||

131|G5 4|||

132|K0 2|||

133|K 1|||

134|K0 5|||

135|F8 4|||

[[5 columned table]]

137

[[Multiple marks as if checking work throughout document]]

[[Check marks after every last column entry]]

[[ "Cards Made out" written vertically in the last column]]

[No.] [DM.] [Ra.] [Dec.] [Mg.]

109|+22 2154|9 52 51.6|+22 32.3 |9.0|

110|+22 2160|9 54 2.4|+22 24.5 |8.6|

111|+22 2164|9 54 44.4|+22 39.7 |5.3|

112|+23 2176|9 56 31.1|+23 16.0 |7.8|

113|+22 2167|9 56 20.5|+22 52.5 |8.8|

114|+22 2169|9 56 28.1|+22 8.7 |8.6|

115|+22 2173|9 57 1.2|+22 31.7 |8.5|

116|+22 2174|9 57 7.1|+22 40.4 |8.2|

117|+22 2179|9 58 8.0|+22 13.2 |7.5|

118|+21 2150|9 57 59.5|+21 15.8 |8.9|

119|+21 2153|9 59 20.4|+21 51.9 |8.3|

120|+22 2185|10 1 8.4|+22 30.8 |7.8|

121|+21 2156|10 1 19.5|+21 2.3 |6.5|

122|+21 2158|10 2 22.4|+21 39.2 |7.0|

123|+21 2159|10 3 6.9|+21 26.1 |6.5|

124|+22 2189|10 3 24.7|+22 27.7 |8.8|

125|+22 2190|10 4 3.6|+22 2.8 |8.7|

126|+20 2447|~~9~~|~~10 4 2.9~~|+20 49.4 |7.7|

127|+22 2193|10 5 11.1|+22 9.2 |7.8|

128|+21 2165|10 6 31.1|+21 54.5 |6.5|

129|+22 2194|10 7 43.8|+22 15.2 |8.3|

130|+22 2197|10 8 59.9|+22 39.0 |7.5|

131	+22 2200	10 9 58.0	+22 42.2  7.8
132	+22 2203	10 10 45.5	+22 50.8  8.6
133	+22 2204	10 11 8.5	+22 47.4  8.7
134	+22 2208	10 12 15.0	+22 43.9  7.5
135	+22 2210	10 13 44.1	+22 8.1  9.0

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March 6, 1912 (cont)  
13757

[[4 column table]]  
No.	Class	Int.	Remark

136 |F8 |2 |  
137 |G |1 |  
138 |K2 |3 |  
139 |A2 |5 |  
140 |G5 |4 |  
141 |K |3 |E  
142 |A2 |3 |E  
143 |K0 |3 |E.  
144 |F0 |5 |  
145 |F0 |5 |  
146 |G5 |4 |  
147 |A5 |4 |E.  
148 |G0 |3 |~~[[/strikethrough]]~~ 4 ~~[[/strikethrough]]~~ |  
149 |A2 |4 |  
150 |A |3 |E  
151 |G0 |8 |  
152 |F |1.0+ |  
153 |F5 |8 |  
154 |K0 |5 |E.  
155 |K |3 |E  
156 |F5 |4 |E  
157 |G5 |3 |  
Time 4.05

139

[[5 column table]]  
No.	DM.	RA.	Dec.	Mg.
136|+22 2212|10 13 50.8|+22 4.6|9.0  
137|+21 2181|10 14 15.1|+21 51.6|9.1  
138|+22 2217|10 19 24.5|+22 21.3|8.2  
139|+23 2163|9 49 59.9|+23 22|7.5

138					139				
March 6, 1912 (cont)									
No.	Class	Int.	Remark		No.	Class	Int.	Remark	
136	F8	2			136	+22 2212	10 13 50.8	+22 4.6	9.0
137	G	1			137	+21 2181	10 14 15.1	+21 51.6	9.1
138	K2	3			138	+22 2217	10 19 24.5	+22 21.3	8.2
139	A2	5			139	+23 2163	9 49 59.9	+23 22	7.5
140	G5	4							
141	K	3	E						
142	A2	3	E						
143	K0	3	E.						
144	F0	5							
145	F0	5							
146	G5	4							
147	A5	4	E.						
148	G0	3	<del>[[/strikethrough]]</del> 4 <del>[[/strikethrough]]</del>						
149	A2	4							
150	A	3	E						
151	G0	8							
152	F	1.0+							
153	F5	8							
154	K0	5	E.						
155	K	3	E						
156	F5	4	E						
157	G5	3							
Time 4.05									

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March 7.19.12

Time: 21hrs 50 min I 37549

[4 columned table]

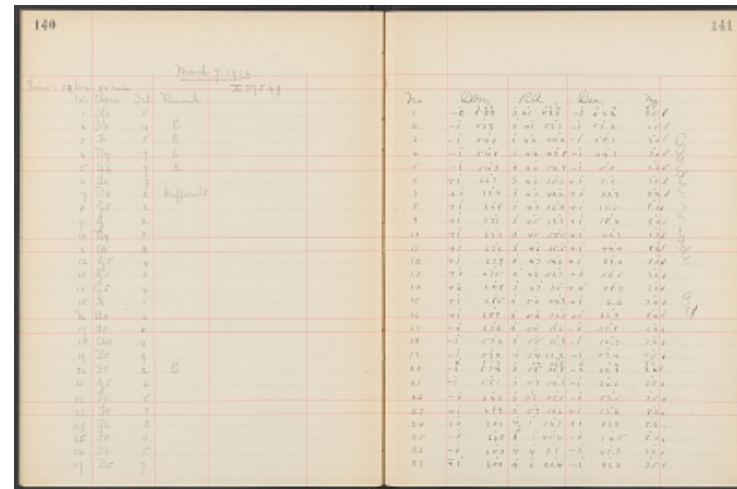
No.	Class	Int.	Remark
1	K0	5	
2	K0	4	E
3	F	5	E
4	B9	7	E
5	A2	7	E
6	F2	7	
7	B8	2	Difficult
8	G5	2	
9	G	5	
10	B9	8	
11	A	2	
12	G5	4	
13	G0	3	
14	G5	4	
15	K	1	
16	A0	4	
17	F5	8	
18	A0	4	
19	B5	9	
20	F5	2	E
21	G5	4	
22	F5	5	
23	F8	3	
24	F2	3	
25	F8	3	
26	K0	5	
27	B5	7	

141

Cards Made Out

[[5 column table]]

No.	DM	RA	Dec.	Mg.
1	-0 602	3 41 13.4	-0 13.4	6.5
2	-1 539	3 41 57.7	-1 53.2	7.5
3	-1 544	3 42 55.2	-1 58.1	7.0
4	-1 548	3 44 47.8	-1 34.3	7.0
5	-1 549	3 44 54.9	-1 5.0	7.3
6	+1 667	3 43 15.1	+1 7.3	7.0
7	+0 664	3 43 42.4	+0 29.9	8.2
8	+1 668	3 43 36.2	+1 17.5	8.0
9	+1 671	3 45 19.7	+1 18.4	8.0
10	+1 673	3 45 58.5	+1 40.7	6.7
11	+1 676	3 46 35.5	+1 44.4	8.2
12	+1 679	3 47 14.6	+1 39.0	8.0
13	+0 675	3 46 53.7	+1 50.5	7.6
14	+2 628	3 49 3.5	+0 38.3	7.0
15	+1 685	3 50 52.9	+2 2.2	7.4
16	+1 689	3 52 13.5	+1 21.9	8.2



17 | -0 632 | 3 55 11.6 | +1 39.8 | 6.2  
 18 | -1 574 | 3 55 15.9 | -0 12.3 | 7.2  
 19 | -1 572 | 3 54 13.2 | -1 57.4 | 5.5  
 20 | - ~~1 575~~ 1 777 | 2 777 | 3 5  
~~5 15.9~~ | -1 12.3 ~~4 56.8~~ | -2 2.4 | 8.0  
 21 | -1 581 | 3 57 54.9 | -2 24.6 | 7.8  
 22 | -0 640 | 3 59 55.5 | -1 57.5 | 7.5  
 23 | +1 699 | 4 1 10.6 | -0 17.2 | 8.2  
 24 | +0 701 | 4 1 14.7 | +1 23.8 | 8.2  
 25 | -0 648 | ~~3~~ 4 4 45.4 | +0 13.5 |  
 8.0  
 26 | -0 653 | 4 6 9.7 | -0 47.9 | 7.2  
 27 | +1 600 | 4 4 20.4 | -1 31.3 | 7.5

Project PHaEDRA - Annie Jump Cannon 40  
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March 7, 1912  
137549

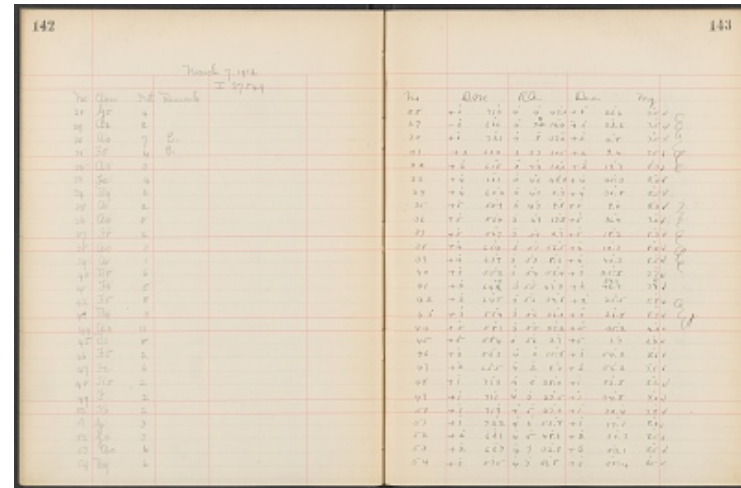
[[4 column table]]  
No. | Class | Int. | Remark

28	G5	4	
29	A2	2	
30	A0	7	E.
31	F5	4	E.
32	A3	3	
33	F0	4	
34	B9	2	
35	A	2	
36	A0	8	
37	F8	2	
38	A0	3	
39	A	1	
40	B8	6	
41	F0	5	
42	F5	8	
43	B9	3	
44	A0	10	
45	B3	8	
46	F5	2	
47	F2	6	
48	K5	2	
49	F	2	
50	K0	2	
51	G	3	
52	G0	3	
53	A0	6	
54	B9	6	

143

[[5 Column table]]  
No. | DM | RA | Dec | Mg

28	+0 710	4 4 43.0	+0 21.6	7.5
29	-0 666	4 18 14.4	22.6	7.5
30	+0 721	4 8 37.0	+0 4.8	7.5
31	+2 602	3 37 30.5	+2 9.4	7.5
32	+2 618	3 44 12.0	+2 19.7	8.3
33	+4 601	3 46 48.8	+4 45.3	8.0
34	+4 602	3 47 3.9	+4 30.8	8.5
35	+5 559	3 47 9.8	+5 9.0	8.3
36	+5 564	3 49 19.8	+5 36.4	7.0
37	+5 567	3 50 2.7	+5 18.2	8.3
38	+4 614	3 51 56.5	+4 12.3	8.2
39	+4 619	3 53 8.6	+4 40.3	8.5
40	+3 552	3 54 53.4	+3 25.8	7.7
41	+2 64	1 3 55 47.9	+2 46.7	39.3
42	7.	7 7		8



42	+2 645	3 56 34.8	+2 25.5	5.8
43	+3 554	3 56 26.0	+3 26.8	8.7
44	+5 581	3 55 27.2	+5 35.2	4.0
45	+5 584	3 56 3.7	+5 1.7	6.2
46	+3 563	4 0 15.8	+3 54.2	8.6
47	+2 655	4 2 9.3	+2 56.2	7.1
48	+1 713	4 3 38.0	+1 56.8	8.2
49	+1 711	4 3 29.5	+1 34.8	9.0
50	+1 719	4 5 27.0	+1 32.4	7.8
51	+1 722	4 6 53.8	+1 17.1	8.0
52	+2 661	4 5 48.6	+2 30.3	8.5
53	+2 667	4 7 32.8	+2 53.1	8.5
54	+3 575	4 7 31.8	+3 35.4	8.5

[[right margin]]cards made out[[/right margin]]

Project PHaEDRA - Annie Jump Cannon 40  
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144

March 7, 1912

[[3 column table]]

I37549

[No.] [Class] [Int] [Remark]

55|A0 6||

56|B8 10|E.|

57|K0 7|E.|

58|A 6|E.|

59|B9 9||

60|F5|3||

61|F 3||

62|A 2||

63|F0 5||

64|F0 8||

65|B9 7||

66|F0 9||

67|K 2||

68|F0 9||

69|[[?G?]] 4|Nearly all superposed 70.|

70|[[?G?]] 5|Focus Poor|

71|5|Focus too poor|

Time:22 hrs 4 mins.

145

[[4 columned table]]

[[Multiple marks throughout the document as if checking work]]

[[Check marks next to last entry of each column as if checking work]]

[[Cards made out" vertically written in last column]]

[No] [Dm] [Ra] [Dec] [Mg]

55|+3 576|4 7 49.3|+3 38.9 8.2|

56|+5 539|3 37 58.9|+5 35.4 5.7|

57|+6 583|3 38 26.0|+6 20.7 6.7|

58|+6 582|3 37 59.2|+6 44.7 7.3|

59|+6 594|3 44 16.9|+6 5.7 6.1|

60|+7 560|3 45 25.7|+7 20.6 var.|

61|+6 605|3 48 51.2|+6 17.0 7.8|

62|+6 607|3 49 52.2|+6 27.4 8.5|

63|+7 589|3 55 9.6|+7 43.6 7.8|

64|+7 592|3 56 7.1|+7 47.6 5.9|

65|+6 637|4 1 41.9|+6 21.1 7.2|

66|+5 601|4 3 36.9|+5 8.6 6.0|

67|+4 652|4 5 3.0|+4 39.2 8.3|

68|+7 617|4 5 44.8|+7 20.7 5.5|

69|+5 613|4 7 43.4|+5 49.7 8.5|

70|+5 614|4 7 46.4|+5 48.5 7.5|

71|+4 668|4 9 30.9|+4 39.9 8.2|

Identified by C.L.A April 1, 1912

Checked by J. G. M. April 5, 1912

144					145				
March 7, 1912									
No.	Dm.	Ra.	Dec.	Mg.	No.	Dm.	Ra.	Dec.	Mg.
55	A0	6			55	A0	6		
56	B8	10	E.		56	B8	10	E.	
57	K0	7	E.		57	K0	7	E.	
58	A	6	E.		58	A	6	E.	
59	B9	9			59	B9	9		
60	F5	3			60	F5	3		
61	F	3			61	F	3		
62	A	2			62	A	2		
63	F0	5			63	F0	5		
64	F0	8			64	F0	8		
65	B9	7			65	B9	7		
66	F0	9			66	F0	9		
67	K	2			67	K	2		
68	F0	9			68	F0	9		
69	[[?G?]]	4	Nearly all superposed 70.		69	[[?G?]]	4	Nearly all superposed 70.	
70	[[?G?]]	5	Focus Poor		70	[[?G?]]	5	Focus Poor	
71	5	Focus too poor			71	5	Focus too poor		
Time: 22 hrs 4 mins.					Identified by C.L.A. April 1, 1912 Checked by J. G. M. April 5, 1912				

Project PHaEDRA - Annie Jump Cannon 40  
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March 7, 1912

Time: 22 hrs 20 min

I37553

[4 columned table]

No. | Class | Int. | Remark

- 1 | K0 | 5 |
- 2 | B9 | 6 |
- 3 | B9 | 6 |
- 4 | K0 | 4 |
- 5 | G | 3 |
- 6 | A0 | 3 |
- 7 | B9 | 6 |
- 8 | A2 | 8 |
- 9 | G5 | 8 |
- 10 | G | ~~3~~ | ~~3~~ | 4 |
- 11 | K0 | 8 |
- 12 | G5 | 5 | E
- 13 | Mb | 4 | E
- 14 | A2 | 5 | E
- 15 | A | 4 | E
- 16 | F5 | 6 |
- 17 | A | 3 |
- 18 | B9 | 4 |
- 19 | F8 | 3 |
- 20 | K0 | 6 |
- 21 | A | 3 | Uncertain, due to portion from H delta to violet being superposed on 20
- 22 | A | 4 | E
- 23 | F8 | 3 |
- 24 | G5 | 3 |
- 25 | B9 | 8 |
- 26 | G5 | 4 |
- 27 | G | 2 | Focus Poor

146		147	
March 7, 1912		March 7, 1912	
1	54	1	1799
2	59	2	1799
3	59	3	1799
4	59	4	1799
5	59	5	1799
6	59	6	1799
7	59	7	1799
8	59	8	1799
9	59	9	1799
10	59	10	1799
11	59	11	1799
12	59	12	1799
13	59	13	1799
14	59	14	1799
15	59	15	1799
16	59	16	1799
17	59	17	1799
18	59	18	1799
19	59	19	1799
20	59	20	1799
21	59	21	1799
22	59	22	1799
23	59	23	1799
24	59	24	1799
25	59	25	1799
26	59	26	1799
27	59	27	1799

147

Cards Made Out

[5 column table]

- |    |          |        |         |     |
|----|----------|--------|---------|-----|
| 1  | +5° 1759 | 7 35.7 | +5 17.0 | 7.1 |
| 2  | +6° 1768 | 7 35.9 | +6 37.3 | 8.3 |
| 3  | +5° 1785 | 7 39.3 | +5 16.8 | 7.7 |
| 4  | +5° 1790 | 7 40.4 | +5 46.1 | 7.0 |
| 5  | +6° 1789 | 7 41.4 | +6 6.3  | 8.4 |
| 6  | +6° 1790 | 7 41.8 | +6 0.9  | 8.3 |
| 7  | +6° 1792 | 7 42.7 | +6 6.3  | 8.0 |
| 8  | +6° 1795 | 7 43.1 | +6 12.9 | 7.7 |
| 9  | +4° 1826 | 7 41.4 | +4 40.0 | 7.1 |
| 10 | +5° 1801 | 7 41.7 | +5 26.9 | 8.3 |
| 11 | +4° 1833 | 7 43.2 | +4 49.0 | 7.1 |
| 12 | +3° 1818 | 7 43.2 | +3 38.8 | 6.7 |
| 13 | +3° 1824 | 7 44.5 | +3 39.1 | 7.5 |
| 14 | +3° 1827 | 7 45.1 | +3 45.4 | 8.0 |

15	+4° 1843	7 44.8	+4 12.3	8.5
16	+5° 1814	7 44.3	+5 43.7	8.1
17	+5° 1824	7 46.1	+5 46.8	8.5
18	+5° 1829	7 46.8	+5 53.7	8.2
19	+5° 1836	7 47.9	+5 23.4	8.7
20	+4° 1860	7 48.8	+4 51.2	7.0
21	+4° 1859	7 48.7	+4 37.7	8.2
22	+4° 1849	7 46.4	+4 7.4	8.5
23	+5° 1844	7 49.8	+5 40.2	8.2
24	+5° 1845	7 50.4	+5 40.2	8.2
25	+6° 1840	7 51.1	+6 1.0	7.4
26	+5° 1848	7 51.6	+ <del>6</del> <del>5</del> 39.1	8.1
27	+5° 1849	7 51.7	+ <del>6</del> <del>5</del> 54.7	8.6

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March 7, 1912

137553

[[4 column table]]

no. | Class | Int. | Remark

28 | F0 | 4 |

29 | A | 2 | Another star superposed?

30 | K5 | 1 | maybe Ma

31 | A0 | 3 |

32 | A0 | 10 |

33 | A0 | 3 |

34 | K0 | 3 |

35 | G | 3 |

36 | A | 3 | E.

37 | B8 | 5 | Lines rather narrow.

38 | A | 3 |

39 | A | 2 |

40 | G5 | 2 |

41 | G | 2 |

42 | B8 | 5 |

43 | B3 | 6 |

44 | B9 | 6 |

45 | A | 3 |

46 | K0 | 3 |

47 | K | 3 |

48 | F5 | 4 |

49 | A0 | 2 |

50 | G | 1 | Partly superposed on 51

51 | K | 2 |

52 | G5 | 3 |

53 | B9 | 6 |

54 | B9 | 6 | E.

149

[[8 column table]]

28 | +6 | 1841 | 7 | 51.4 | +6 | 42.6 | 8.5

29 | +6 | 1843 | 7 | 52.0 | +6 | 23.0 | 9.0

30 | +5 | 1852 | 7 | 52.0 | +5 | 16.9 | 8.3

31 | +5 | 1855 | 7 | 53.2 | +5 | 25.3 | 8.8

32 | +5 | 1857 | 7 | 53.6 | +5 | 16.0 | 6.5

33 | +5 | 1859 | 7 | 54.1 | +5 | 36.1 | 8.3

34 | +4 | 1880 | 7 | 54.3 | +4 | 56.3 | 8.0

35 | +4 | 1882 | 7 | 54.8 | +4 | 33.2 | 8.5

36 | +3 | 1883 | 7 | 56.4 | +3 | 47.5 | 8.0

37 | +4 | 1896 | 7 | 57.3 | +4 | 32.8 | 8.0

38 | +7 | 1897 | 7 | 53.7 | +7 | 18.4 | 9.0

39 | +6 | 1856 | 7 | 54.4 | +6 | 33.1 | 9.0

40 | +6 | 1858 | 7 | 54.6 | +6 | 59.8 | 8.6

41 | +7 | 1904 | 7 | 55.6 | +7 | 31.9 | 8.3

42 | +6 | 1864 | 7 | 56.1 | +6 | 43.9 | 8.2

43 | +6 | 1867 | 7 | 57.1 | +6 | 35.7 | 8.3

44 | +6 | 1869 | 7 | 57.7 | +6 | 14.1 | 8.0

45 | +5 | 1869 | 7 | 57.6 | +5 | 50.3 | 8.7

148				149			
March 7, 1912							
28	F0	4		28	+6	1841	7
29	A	2	Another star superposed?	29	+6	1843	7
30	K5	1	maybe Ma	30	+5	1852	7
31	A0	3		31	+5	1855	7
32	A0	10		32	+5	1857	7
33	A0	3		33	+5	1859	7
34	K0	3		34	+4	1880	7
35	G	3		35	+4	1882	7
36	A	3	E.	36	+3	1883	7
37	B8	5	Lines rather narrow.	37	+4	1896	7
38	A	3		38	+7	1897	7
39	A	2		39	+6	1856	7
40	G5	2		40	+6	1858	7
41	G	2		41	+7	1904	7
42	B8	5		42	+6	1864	7
43	B3	6		43	+6	1867	7
44	B9	6		44	+6	1869	7
45	A	3		45	+5	1869	7
50	G	1	Partly superposed on 51				
51	K	2					
52	G5	3					
53	B9	6					
54	B9	6	E.				

46	+	5	1872	7	58.4	+	5	58.4	8.0
47	+	5	1883	8	0.8	+	5	47.4	7.8
48	+	6	1881	8	1.8	+	6	21.0	7.7
49	+	5	1893	8	2.5	+	5	41.0	8.5
50	+	6	1885	8	3.4	+	6	46.8	8.7
51	+	6	1886	8	3.5	+	6	49.5	8.5
52	+	6	1889	8	3.9	+	6	35.8	8.2
53	+	5	1904	8	5.2	+	5	21.6	8.0
54	+	6	1900	8	6.1	+	6	44.3	7.3

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March 7, 1912

137553

[[4 column table]]

No.|Class|Int.|Remark

55|A0|6|

56|A4|E.

57|A2|6|

58|A2|3|

59|G5|3|

60|A0|9|

61|F8|4|

62|F0|4|

63|A5|1|

64|B9|6|

65|B8|5|

66|A0|7|

67|A5|2|

68|G2|Difficult

69|A3|3|

70|F0|4|

71|B9|4|

72|F8|4|

73|G5|2|

74|B9|3|

75|K5|2|

76|G5|5|

77|B9|8|

78|G5|3|

79|A|2|

80|A3|5|

81|G0|4|

151

[[5 column table]]

55|+8 2005|8 6.1|+8 9.8|7.8

56|+7 1816|7 34.7|+7 47.8|9.0

57|+9 1753|7 35.9|+9 56.7|8.2

58|+10 1619|7 37.7|+10 11.9|9.0

59|+10 1620|7 37.8|+10 44.4|8.5

60|+11 1670|7 38.3|+11 7.6|5.0

61|+9 1765|7 39.6|+9 58.5|7.8

62|+9 1766|7 39.6|+9 19.4|7.5

63|+7 1834|7 39.4|+7 26.4|8.7

64|+7 1837|7 40.0|+7 41.9|7.8

65|+7 1838|7 40.6|+7 7.3|8.3

66|+7 1844|7 43.2|+7 48.1|7.5

67|+7 1848|7 44.1|+7 27.3|8.5

68|+7 1854|7 45.2|+7 5.0|8.3

69|+7 1862|7 47.1|+7 17.8|8.4

70|+7 1863|7 47.3|+7 22.6|8.2

71|+7 1864|7 47.4|+7 32.4|8.5

72	+6	1823	7	48.2	+6	53.8	8.1
73	+6	1822	7	48.1	+6	27.0	8.7
74	+6	1826	7	48.6	+6	11.8	8.5
75	+6	1828	7	48.8	+6	47.3	8.2
76	+7	1876	7	49.7	+7	13.4	7.5
77	+7	1879	7	50.3	+7	35.5	6.8
78	+8	1928	7	51.0	+8	50.8	7.5
79	+8	1931	7	51.2	+8	32.6	8.7
80	+9	1835	7	52.4	+9	22.0	8.2
81	+8	1945	7	53.4	+8	46.8	7.5

cards made out

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March 7, 1912.

137553

[[4 column table]]

No. | Class | INT. | Remark

82 | G | 2

83 | F | 5 | 8

84 | K | 2

85 | A | 5 | 4

86 | G | 5 | 3

87 | F | 2 | 5

88 | A | 3 | 4

89 | F | 0 | 4

90 | G | 5 | 6

91 | F | 0 | 4

92 | B | 9 | 9

93 | G | 5 | 2

94 | A | 2 | E.

95 | F | 4 | E.

96 | G | 5 | 3

97 | G | 5 | E.

98 | G | 4 | E.

99 | K | 0 | 4 | E.

100 | A | 3

101 | A | 3

102 | A | 2

103 | G | 5 | 2

104 | G | 2

105 | F | 2 | 3

106 | G | 2

107 | A | 2

108 | F | 0 | 2

153

[[5 column table]]

82	+8°	1941	7 53.0	+ 8	18.8	8.5	[check mark]
83	+9°	1843	7 54.0	+ 9	18.2	6.7	[check mark]
84	+8°	1850	7 54.9	+ 9	28.9	8.6	[check mark]
85	+8°	1958	7 56.2	+ 8	40.0	8.5	[check mark]
86	+8°	1963	7 57.6	+ 8	36.4	8.0	[check mark]
87	+7°	1921	7 59.5	+ 7	41.5	7.8	[check mark]
88	+8°	1974	8 0.4	+ 8	38.8	8.2	[check mark]
89	+8°	1980	8 1.2	+ 8	27.6	7.8	[check mark]
90	+9°	1892	8 2.4	+ 9	35.8	7.2	[check mark]
91	+10°	1744	8 3.2	+ 10	0.	8.5	[check mark]
92	+10°	1746	8 3.4	+ 10	16.2	6.5	[check mark]
93	+9°	1894	8 3.5	+ 9	43.3	7.8	[check mark]
94	+9°	1895	8 3.5	+ 9	9.2	8.5	[check mark]
95	+10°	1752	8 5.0	+ 10	0.6	8.0	[check mark]
96	+10°	1756	8 6.6	+ 10	37.4	8.0	[check mark]
97	+11°	1787	8 5.6	+ 11	17.4	7.3	[check mark]
98	+10°	1755	8 5.7	+ 10	49.3	8.0	[check mark]
99	+13°	1750	7 36.2	+ 13	12.7	7.0	[check mark]
100	+12°	1664	7 37.5	+ 12	5.4	8.6	[check mark]
101	+11°	1677	7 40.0	+ 11	28.1	8.3	[check mark]

152	March 7, 1912										153
	No.	Class	INT.	Remark							
	82	G	2								
	83	F	5	8							
	84	K	2								
	85	A	5	4							
	86	G	5	3							
	87	F	2	5							
	88	A	3	4							
	89	F	0	4							
	90	G	5	6							
	91	F	0	4							
	92	B	9	9							
	93	G	5	2							
	94	A	2	E.							
	95	F	4	E.							
	96	G	5	3							
	97	G	5	E.							
	98	G	4	E.							
	99	K	0	4	E.						
	100	A	3								
	101	A	3								
	102	A	2								
	103	G	5	2							
	104	G	2								
	105	F	2	3							
	106	G	2								
	107	A	2								
	108	F	0	2							

102	+11° 1679	7 40.7	+ 11 30.3	8.6 [check mark]
103	+11° 1684	7 41.1	+ 11 10.4	8.3 [check mark]
104	+10° 1640	7 42.4	+ 10 52.9	8.5 [check mark]
105	+10° 1641	7 42.5	+ 10 7.7	8.0 [check mark]
106	+9° 1769	7 40.8	+ 9 50.2	8.8 [check mark]
107	+9° 1779	7 42.2	+ 9 15.6	8.7 [check mark]
108	+9° 1782	7 42.4	+ 9 5.6	8.5 [check mark]

cards made out

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March 7, 1912  
I37553

[[4 column page]]

No. | Class | Int. | Remark

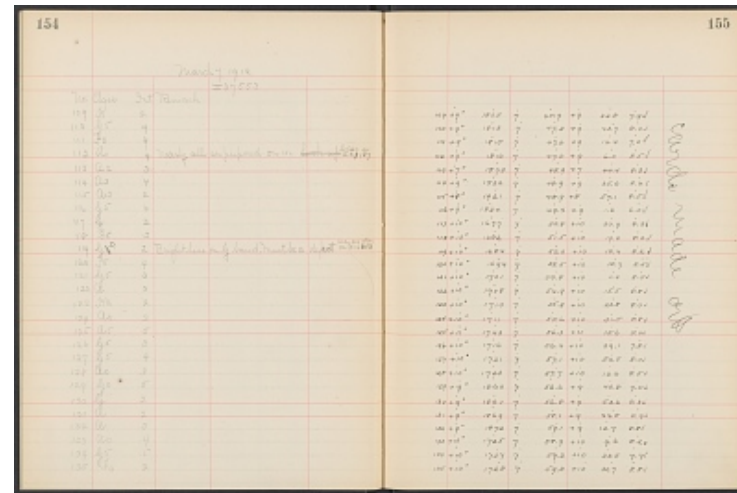
109 | K 2 |  
110 | G5 4 |  
111 | F0 9 |  
112 | A 4 | Nearly all superposed on 111. Lookup on I31387  
113 | A2 3 |  
114 | A3 4 |  
115 | A3 2 |  
116 | G5 6 |  
117 | G 2 |  
118 | F5 3 |  
119 | G0 2 | Bright line on G baud [?]. Must be a defect. Only one star on I4613  
120 | F8 4 |  
121 | G5 3 |  
122 | A 3 |  
123 | K2 2 |  
124 | A0 3 |  
125 | A5 5 |  
126 | G5 3 |  
127 | G5 4 |  
128 | A0 3 |  
129 | G0 5 |  
130 | G 2 |  
131 | A 2 |  
132 | A 3 |  
133 | A0 4 |  
134 | G5 5 |  
135 | F0 2 |

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[[4 COLUMN PAGE]]

[[RIGHT MARGIN]] Cards made out

109 | +9° 1805 | 7 45.9 | +9 22.8 7.9  
110 | +9° 1813 | 7 47.3 | +9 43.7 8.0  
111 | +9° 1815 | 7 47.6 | +9 14.4 7.0  
112 | +9° 1816 | 7 47.6 | +9 6.0 8.5  
113 | +7° 1873 | 7 48.9 | +7 44.4 8.3  
114 | +9° 1822 | 7 48.9 | +9 25.6 8.4  
115 | +8° 1921 | 7 48.9 | +8 57.1 8.5  
116 | +9° 1824 | 7 49.4 | +9 1.6 6.0  
117 | +10° 1677 | 7 50.8 | +10 30.9 8.3  
118 | +10° 1682 | 7 51.5 | +10 19.4 8.2  
119 | +10° 1684 | 7 52.0 | +10 18.4 8.2  
120 | +10° 1694 | 7 52.5 | +10 18.7 8.5  
121 | +10° 1701 | 7 53.8 | +10 1.4 8.5  
122 | +10° 1708 | 7 54.9 | +10 15.5 8.8  
123 | +10° 1710 | 7 55.3 | +10 20.8 8.0



124	+10°	1711	7 55.6	+10 31.5	8.8
125	+11°	1743	7 56.3	+11 15.6	8.0
126	+10°	1716	7 56.4	+10 39.1	7.8
127	+10°	1721	7 57.1	+10 54.5	8.0
128	+10°	1723	7 57.7	+10 16.6	8.5
129	+9°	1860	7 56.6	+9 40.8	7.5
130	+9°	1861	7 56.8	+9 53.6	8.3
131	+9°	1869	7 58.1	+9 44.8	8.9
132	+9°	1872	7 59.1	+9 12.7	8.8
133	+10°	1725	7 58.9	+10 9.6	8.2
134	+10°	1727	7 59.2	+10 23.5	7.7
135	+10°	1728	7 59.3	+10 32.7	8.8

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March 7, 1912

I37553

No. Class Int. Remark

136 B9 4  
 137 A2 3  
 138 A 2  
 139 A 5 E.  
 140 K 1  
 141 B8 6  
 142 K0 5  
 143 K0 4  
 144 K0 3  
 145 G5 2  
 146 A2 2  
 147 G5 2  
 148 B9 8  
 149 A0 5  
 150 ~~[A0]~~~~[B9]~~ 4  
 151 B9 5  
 152 A0 4  
 153 K0 4  
 154 B9 8  
 155 K0 3  
 156 K0 3  
 157 K 2  
 158 F8 6  
 159 F5 2  
 160 A5 2  
 161 G0 3  
 162 K0 2

157

136 +9° 1876 7 59.8 +9 51.2 8.0  
 137 +10° 1738 8 1.1 +10 55.5 8.2  
 138 +11° 1777 8 3.6 +11 50.9 8.7  
 139 +11° 1779 8 3.8 +11 36.8 8.0  
 140 +11° 1784 8 4.7 +11 37.3 7.6  
 141 +11° 1785 8 4.8 +11 36.9 7.3  
 142 +13° 1772 7 40.9 +13 43.7 6.5  
 143 +13° 1775 7 41.5 +13 9.4 7.5  
 144 +12° 1685 7 41.6 +12 30.6 7.6  
 145 +11° 1693 7 43.4 +11 32.3 8.3  
 146 +10° 1649 7 44.1 +10 37.3 8.7  
 147 +11° 1708 7 45.6 +11 3.9 8.0  
 168 +10° 1662 7 47.8 +10 49.8 7.8  
 149 +11° 1717 7 48.3 +11 14.4 7.3  
 150 +12° 1717 7 48.4 +12 7.9 8.0  
 151 +12° 1721 7 48.9 +12 4.4 8.2  
 152 +12° 1738 7 52.3 +12 36.1 8.0  
 153 +13° 1816 7 52.5 +13 2.1 7.3  
 154 +13° 1817 7 52.8 +13 3.9 7.4  
 155 +13° 1824 7 54.9 +13 20.7 8.5

156				157			
No.	Class	Int.	Remark	No.	Class	Int.	Remark
136	B9	4		136	+9°	1876	7 59.8 +9 51.2 8.0
137	A2	3		137	+10°	1738	8 1.1 +10 55.5 8.2
138	A	2		138	+11°	1777	8 3.6 +11 50.9 8.7
139	A	5	E.	139	+11°	1779	8 3.8 +11 36.8 8.0
140	K	1		140	+11°	1784	8 4.7 +11 37.3 7.6
141	B8	6		141	+11°	1785	8 4.8 +11 36.9 7.3
142	K0	5		142	+13°	1772	7 40.9 +13 43.7 6.5
143	K0	4		143	+13°	1775	7 41.5 +13 9.4 7.5
144	K0	3		144	+12°	1685	7 41.6 +12 30.6 7.6
145	G5	2		145	+11°	1693	7 43.4 +11 32.3 8.3
146	A2	2		146	+10°	1649	7 44.1 +10 37.3 8.7
147	G5	2		147	+11°	1708	7 45.6 +11 3.9 8.0
148	B9	8		168	+10°	1662	7 47.8 +10 49.8 7.8
149	A0	5		149	+11°	1717	7 48.3 +11 14.4 7.3
150	<del>A0</del>	<del>B9</del>	4	150	+12°	1717	7 48.4 +12 7.9 8.0
151	B9	5		151	+12°	1721	7 48.9 +12 4.4 8.2
152	A0	4		152	+12°	1738	7 52.3 +12 36.1 8.0
153	K0	4		153	+13°	1816	7 52.5 +13 2.1 7.3
154	B9	8		154	+13°	1817	7 52.8 +13 3.9 7.4
155	K0	3		155	+13°	1824	7 54.9 +13 20.7 8.5
156	K0	3					
157	K	2					
158	F8	6					
159	F5	2					
160	A5	2					
161	G0	3					
162	K0	2					

156 +12° 1748 7 54.5 +12 50.9 7.3  
157 +12° 1749 7 54.5 +12 38.0 8.0  
158 +12° 1754 7 55.5 +12 35.0 6.9  
159 +11° 1740 7 55.3 +11 45.2 8.3  
160 +11° 1747 7 57.2 +11 40.3 8.6  
161 +12° 1759 7 56.3 +12 42.4 8.2  
162 +12° 1762 7 56.9 +12 36.2 8.7

Project PHaEDRA - Annie Jump Cannon 40  
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158  
 March 7, 1912  
 I37553  
 No. Class Int. Research  
 163 Bg 8  
 164 JTO 3  
 165 JLO 3  
 166 F5 7 8  
 167 JFO 5  
 168 JFO 7  
 Time: 22 hrs 57 min.

159  
 cards made out  
 163+13 1831 7 57.0+13 32.2 5.8  
 164+13 1832 7 57.5+13 54.9 7.7  
 165+13 1842 8 0.3+13 34.1 8.0  
 166+14 1831 8 0.6+14 4.1 6.5  
 167+12 1712 7 47.0+12 56.7 7.3  
 168+13 1811 7 51.5+13 36.9 6.5

Identified by J.G.M April 10, 1912  
 Checked BY A.M.C April 13, 1912

158				159			
March 7, 1912				March 7, 1912			
No.	Class	Int.	Research	No.	Class	Int.	Research
163	Bg	8		163	Bg	8	
164	JTO	3		164	JTO	3	
165	JLO	3		165	JLO	3	
166	F5	7	8	166	F5	7	8
167	JFO	5		167	JFO	5	
168	JFO	7		168	JFO	7	
Time: 22 hrs 57 min.				Time: 22 hrs 57 min.			
Cards made out				Cards made out			
163+13 1831 7 57.0+13 32.2 5.8				163+13 1831 7 57.0+13 32.2 5.8			
164+13 1832 7 57.5+13 54.9 7.7				164+13 1832 7 57.5+13 54.9 7.7			
165+13 1842 8 0.3+13 34.1 8.0				165+13 1842 8 0.3+13 34.1 8.0			
166+14 1831 8 0.6+14 4.1 6.5				166+14 1831 8 0.6+14 4.1 6.5			
167+12 1712 7 47.0+12 56.7 7.3				167+12 1712 7 47.0+12 56.7 7.3			
168+13 1811 7 51.5+13 36.9 6.5				168+13 1811 7 51.5+13 36.9 6.5			

Project PHaEDRA - Annie Jump Cannon 40  
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160

March 11, 1912

Time: 23 hrs 3 mins

B24Q90 short dist.

no. Class Int. Research  
1 G5 5 E.

2 J2 5

3 K0 8

4 A0 5

5 K0 7

6 G5 8

7 A2 6

8 G5 9

9 K5 10

10 G5 4

11 J8 10

12 J5 4

13 A2 3

14 K2 4

15 J5 6

16 J8 3

17 K0 4

18 J8 6

19 J5 6

20 J0 4

21 K2 5

22 G5 3

23 K5 6

24 J0 3

25 G5 9 E.

26 G5 6

27 J2 6

161

[[Five column table]]

1- 40 568 2 7.9 -40 35.2 8.0 ^ [[check mark]]

2- 40 574 2 10.0 -40 22.8 8.3 ^ [[check mark]]

3- 39 679 2 14.3 -39 33.7 7.7 ^ [[check mark]]

4- 40 389 2 14.9 -40 5.8 8.5 ^ [[check mark]]

5- 39 684 2 15.6 -39 36.7 8.3 ^ [[check mark]]

6- 39 689 2 16.8 -39 16.3 8.0 ^ [[check mark]]

7- 39 690 2 16.8 -39 32.7 8.7 ^ [[check mark]]

8- 39 695 2 17.5 -39 58.9 7.0 ^ [[check mark]]

9- 38 797 2 17.9 -38 9.0 6.6 ^ [[check mark]]

10- 38 798 2 18.3 -38 29.8 8.7 ^ [[check mark]]

11- 37 915 2 19.3 -37 55.7 6.6 ^ [[check mark]]

12- 39 701 2 14.9 -39 14.5 8.7 ^ [[check mark]]

13- 39 703 2 20.1 -39 37.2 8.9 ^ [[check mark]]

14- 40 619 2 21.7 -40 8.7 7.9 ^ [[check mark]]

15- 39 716 2 23.7 -39 31.0 8.6 ^ [[check mark]]

16- 39 739 2 26.9 -39 29.9 9.0 ^ [[check mark]]

17- 39 741 2 27.8 -39 7.9 8.5 ^ [[check mark]]

18- 39 743 2 28.1 -39 54.0 8.5 ^ [[check mark]]

160	161
<p>Transk. 11, 1912.</p> <p>Class. 11, 1912.</p> <p>Class. 11, 1912.</p>	<p>Transk. 11, 1912.</p> <p>Class. 11, 1912.</p> <p>Class. 11, 1912.</p>
<p>1- 40 568 2 7.9 -40 35.2 8.0 ^ [[check mark]]</p> <p>2- 40 574 2 10.0 -40 22.8 8.3 ^ [[check mark]]</p> <p>3- 39 679 2 14.3 -39 33.7 7.7 ^ [[check mark]]</p> <p>4- 40 389 2 14.9 -40 5.8 8.5 ^ [[check mark]]</p> <p>5- 39 684 2 15.6 -39 36.7 8.3 ^ [[check mark]]</p> <p>6- 39 689 2 16.8 -39 16.3 8.0 ^ [[check mark]]</p> <p>7- 39 690 2 16.8 -39 32.7 8.7 ^ [[check mark]]</p> <p>8- 39 695 2 17.5 -39 58.9 7.0 ^ [[check mark]]</p> <p>9- 38 797 2 17.9 -38 9.0 6.6 ^ [[check mark]]</p> <p>10- 38 798 2 18.3 -38 29.8 8.7 ^ [[check mark]]</p> <p>11- 37 915 2 19.3 -37 55.7 6.6 ^ [[check mark]]</p> <p>12- 39 701 2 14.9 -39 14.5 8.7 ^ [[check mark]]</p> <p>13- 39 703 2 20.1 -39 37.2 8.9 ^ [[check mark]]</p> <p>14- 40 619 2 21.7 -40 8.7 7.9 ^ [[check mark]]</p> <p>15- 39 716 2 23.7 -39 31.0 8.6 ^ [[check mark]]</p> <p>16- 39 739 2 26.9 -39 29.9 9.0 ^ [[check mark]]</p> <p>17- 39 741 2 27.8 -39 7.9 8.5 ^ [[check mark]]</p> <p>18- 39 743 2 28.1 -39 54.0 8.5 ^ [[check mark]]</p>	<p>1- 40 568 2 7.9 -40 35.2 8.0 ^ [[check mark]]</p> <p>2- 40 574 2 10.0 -40 22.8 8.3 ^ [[check mark]]</p> <p>3- 39 679 2 14.3 -39 33.7 7.7 ^ [[check mark]]</p> <p>4- 40 389 2 14.9 -40 5.8 8.5 ^ [[check mark]]</p> <p>5- 39 684 2 15.6 -39 36.7 8.3 ^ [[check mark]]</p> <p>6- 39 689 2 16.8 -39 16.3 8.0 ^ [[check mark]]</p> <p>7- 39 690 2 16.8 -39 32.7 8.7 ^ [[check mark]]</p> <p>8- 39 695 2 17.5 -39 58.9 7.0 ^ [[check mark]]</p> <p>9- 38 797 2 17.9 -38 9.0 6.6 ^ [[check mark]]</p> <p>10- 38 798 2 18.3 -38 29.8 8.7 ^ [[check mark]]</p> <p>11- 37 915 2 19.3 -37 55.7 6.6 ^ [[check mark]]</p> <p>12- 39 701 2 14.9 -39 14.5 8.7 ^ [[check mark]]</p> <p>13- 39 703 2 20.1 -39 37.2 8.9 ^ [[check mark]]</p> <p>14- 40 619 2 21.7 -40 8.7 7.9 ^ [[check mark]]</p> <p>15- 39 716 2 23.7 -39 31.0 8.6 ^ [[check mark]]</p> <p>16- 39 739 2 26.9 -39 29.9 9.0 ^ [[check mark]]</p> <p>17- 39 741 2 27.8 -39 7.9 8.5 ^ [[check mark]]</p> <p>18- 39 743 2 28.1 -39 54.0 8.5 ^ [[check mark]]</p>

19-39 746 2 28.6 -39 43.5 8.7 ^ [[check mark]]  
20-39 751 2 29.7 -39 11.4 8.7 ^ [[check mark]]  
21-38 858 2 30.1 -38 20.7 8.0 ^ [[check mark]]  
22-38 855 2 29.2 -38 3.1 8.6 ^ [[check mark]]  
23-37 962 2 28.5 -37 58.1 7.5 ^ [[check mark]]  
24-37 960 2 27.9 -37 44.1 8.6 ^ [[check mark]]  
25-36 957 2 27.1 -36 59.0 6.4 ^ [[check mark]]  
26-39 757 2 31.3 -39 16.0 8.0 ^ [[check mark]]  
27-39 758 2 32.1 -39 27.4 8.4 ^ [[check mark]]

cards made out

Project PHaEDRA - Annie Jump Cannon 40  
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[[left page]]  
[[top left corner]]  
162

[[header]]  
March 11, 1912  
B 24090 short disp.  
no, Class Int. Rewark  
.28 78 10 Burned out  
.29 A5 5  
.30 Y0 6  
.13 Y 10  
.32 A 4  
.33 Y 6  
.34 Y 8

[[written directly below, not in a particular space]]  
35a 7 4

[[back to orderly fashion]]  
.35 Y5 5

[[crossed out]] 35

.36 Y0 5  
.37 A 4  
.38 K 2  
.39 J8 3  
.40 Y 10 Burned out  
.41 Y5 5  
.42 K5 7 Maybe Ma  
.43 J0 3  
.44 Y0 4  
.45 Y5 6  
.46 Y5 10  
.47 K0 3  
.48 A2 8  
.49 J5 3  
.50 Y5 3  
.51 K2 2  
.52 J5 2  
.53 K0 7  
.54 J5 6

[[right page]]  
[[upper right corner]] 163

28-38° 875 2 33.4 -38 31.6 6.4  
29-39° 778 2 36.6 -39 7.5 8.6  
30-39° 778 2 36.6 -39 24.3 8.6  
31-38° 894 2 37.1 -38 54.9 6.1  
32-38 890 2 36.5 -38 19.1 9.0 ^[[check mark]]  
33-38 899 2 38.4 -38 27.6 8.0 ^[[check mark]]  
34-38 910 2 40.7 -38 40.9 7.7 ^[[check mark]]  
35-41 613 2 7.8 -41 50.9 8.7 ^[[check mark]]  
35-38 917 2 42.1 -38 15.5 8.5 ^[[check mark]]  
36-42 751 2 7.9 -42 2.3 9.1 ^[[check mark]]  
37-42 758 2 8.7 -42 21.5 9.2 ^[[check mark]]  
38-42 760 2 8.8 -42 19.5 9.2 ^[[check mark]]  
39-42 761 2 9.1 -41 17.5 9.3 ^[[check mark]]  
40-41 621 2 9.5 -41 45.2 6.1 ^[[check mark]]  
41-41 622 2 9.6 -41 17.2 8.7 ^[[check mark]]  
42-41 626 2 10.4 -41 39.3 7.0 ^[[check mark]]  
43-42 769 2 11.0 -42 22.6 9.6 ^[[check mark]]

44-42 774 2 12.0 -42 33.2 9.0 ^[[check mark]]  
 45-42 784 2 14.2 -42 36.0 8.5 ^[[check mark]]  
 46-42 785 2 14.4 -42 25.4 6.6 ^[[check mark]]  
 47-42 787 2 15.1 -42 29.6 8.5 ^[[check mark]]  
 48-41 658 2 15.2 -41 57.9 8.5  
 ^[[check mark]]  
 49-41 661 2 16.0 -41 24.5 9.0 ^[[check mark]]  
 50-40 594 2 16.7 -40 44.2 9.3 ^[[check mark]]  
 51-41 668 2 17.3 -41 5.0 9.0 ^[[check mark]]  
 52-41 681 2 19.5 -41 24.8 6.3 ^[[check mark]]  
 53-41 693 2 21.8 -41 55.9 8.3 ^[[check mark]]  
 54-41 697 2 22.8 -41 44.7 9.0 ^[[check mark]]

Project PHaEDRA - Annie Jump Cannon 40  
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164

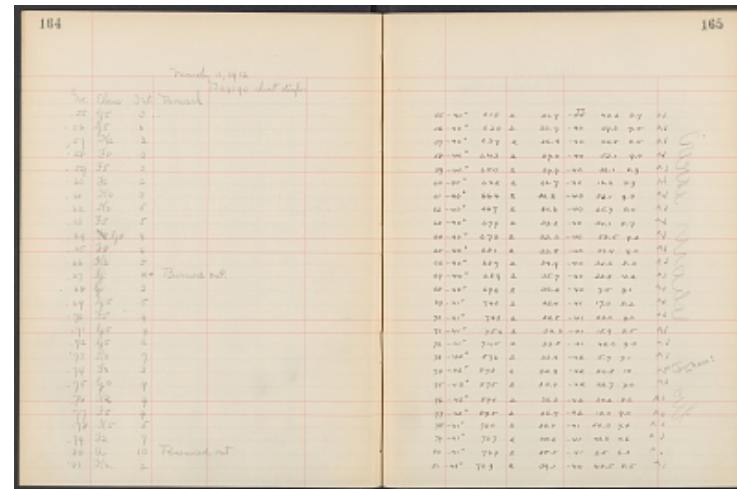
March 11, 1912  
B24090 short disp.

[[4 columned table]]  
No. | Class | Int. | Remark  
.55|G5|3|  
.56|G5|6|  
.57|K2|2|  
.58|F8|3|  
.59|F5|3|  
.60|F8|2|  
.61|K0|3|  
.62|K0|5|  
.63|F5|5|  
.64|~~[[[strikethrough]]F8[[[strikethrough]]G0|4|~~ |  
.65|F8|4|  
.66|K2|5|  
.67|G|10|+|Burned out.  
.68|G|3|  
.69|G5|5|  
.70|F5|4|  
.71|G5|4|  
.72|G5|2|  
.73|K0|7|  
.74|G0|3|  
.75|G0|9|  
.76|K2|4|  
.77|F5|4|  
.78|K5|5|  
.79|F2|7|  
.80|A|10|Burned out  
.81|K2|2|  
[[4 columned table]]

165

[[9 columned table]]

55|-40°|618|2|21.7|-40|~~[[[strikethrough]]-55[[[strikethrough]]|42.2|8.7|^~~  
56|-40°|628|2|23.9|-40|59.3|7.5|^  
57|-40°|639|2|26.4|-40|52.8|8.5|^  
58|-40°|643|2|27.0|-40|52.1|9.0|^  
59|-40°|650|2|27.9|-40|36.1|8.9|^  
60|-40°|642|2|26.7|-40|16.6|8.9|^  
61|-40°|664|2|30.2|-40|32.1|9.0|^  
62|-40°|667|2|30.6|-40|25.7|8.0|^  
63|-40°|679|2|33.3|-40|34.1|8.7|^  
64|-40°|678|2|33.3|-40|58.5|9.2|^  
65|-40°|681|2|33.8|-40|51.4|9.0|^  
66|-40°|687|2|34.9|-40|32.6|8.3|^  
67|-40°|689|2|35.7|-40|23.3|4.2|^  
68|-40°|692|2|36.2|-40|7.5|9.1|^  
69|-41°|740|2|32.4|-41|17.0|8.2|^  
70|-41°|743|2|32.8|-41|23.0|9.0|^  
71|-41°|754|2|34.6|-41|15.9|8.5|^  
72|-41°|745|2|33.5|-41|42.6|9.3|^  
73|-42°|876|2|33.4|-42|5.7|7.1|^



74	-42°	873	2	32.9	-42	26.8	10	^	[[?comment in right margin]]
75	-42°	875	2	33.4	-42	26.7	7.0	^	
76	-42°	894	2	36.3	-42	34.2	8.6	^	
77	-42°	895	2	36.7	-42	13.0	9.0	^	
78	-41°	760	2	36.0	-41	50.3	7.4	^	
79	-41°	767	2	38.2	-41	46.6	8.6	^	
80	-41°	769	2	38.5	-41	3.5	6.3	^	
81	-40°	709	2	39.1	-40	48.5	8.5	^	

[[/9 columned table]]  
 [[right margin]]Cards made[[/right margin]]  
 [[right margin]]Magn wrongin CDM [[?]] [[/right margin]]

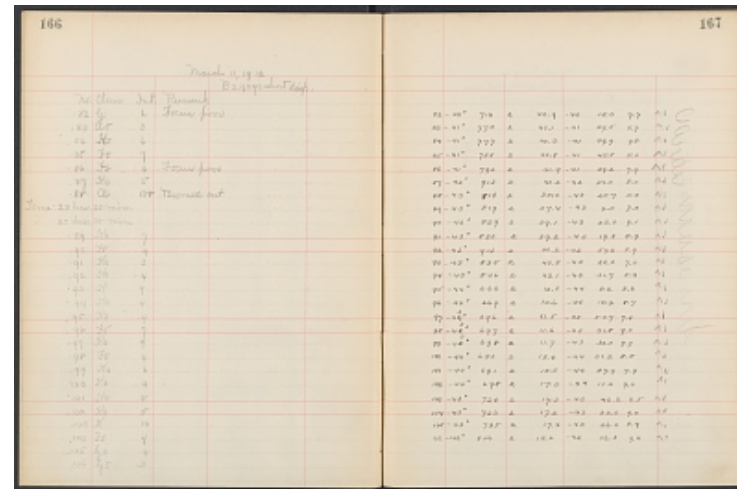
Project PHaEDRA - Annie Jump Cannon 40  
 Transcribed and Reviewed by Digital Volunteers  
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166  
 March 11, 1912  
 B24090 short disp.

[[4 column table]]  
No.	Class	Int.	Remark
 82|G|6|Focus poor  
 83|A|5|3  
 84|K|5|6  
 85|F|5|7  
 86|F|8|6|Focus poor  
 87|K|0|5  
 88|A|10+|Burned out  
 Time 23 hrs. 20 min.  
 " 23 hrs. 35 min.  
 89|K|0|7  
 90|F|8|4  
 91|K|0|3  
 92|K|0|4  
 93|K|9  
 94|K|0|4  
 95|K|0|4  
 96|F|5|7  
 97|K|0|9  
 98|F|5|4  
 99|K|0|6  
 100|K|0|4  
 101|K|0|8  
 102|K|0|5  
 103|K|10  
 104|F|5|4  
 105|G|0|4  
 106|G|5|3

167

82|40°|716|2|40.9|40|15.0|7.7 ^  
 83|41°|773|2|40.1|41|29.5|8.7 ^  
 84|41°|777|2|40.3|41|49.9|7.8 ^  
 85|41°|788|2|40.8|41|45.8|8.0 ^  
 86|41°|792|2|41.9|41|29.2|7.9 ^  
 87|42°|913|2|40.2|42|24.0|8.0 ^  
 88|43°|[[?]]|14|2|35.0|43|25.7|5.0 ^  
 89|43°|819|2|37.4|43|4.0|7.3 ^  
 90|43°|829|2|39.1|43|22.0|9.1 ^  
 91|43°|830|2|39.2|43|19.3|8.9 ^  
 92|42°|914|2|40.2|42|57.6|8.9 ^  
 93|43°|835|2|40.8|43|22.0|7.0 ^  
 94|43°|846|2|42.1|43|31.7|8.4 ^  
 95|44°|666|2|10.0|44|8.2|8.6 ^  
 96|44°|669|2|10.6|44|15.2|8.7 ^  
 97|4|~~[[?]]~~|3°|696|2|11.5|43|50.7|7.4 ^  
 98|4|~~[[?]]~~|3°|697|2|11.6|43|31.8|9.0 ^  
 99|4|~~[[?]]~~|3°|698|2|11.7|43|30.3|7.7 ^  
 100|44°|680|2|13.4|44|31.2|8.8 ^  
 101|44°|691|2|15.5|44|37.9|7.9 ^  
 102|44°|698|2|17.3|44|11.2|9.0 ^  
 103|43°|724|2|17.3|43|46.2|6.5 ^  
 104|43°|723|2|17.2|43|33.0|9.0 ^





105|43°|725|2|17.4|43|26.4|8.9 ^  
106|42°|806|2|18.2|42|56.3|9.6 ^

Cards made [[?]]

Project PHaEDRA - Annie Jump Cannon 40  
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[left page]  
168

March 11, 1912  
B24090 short disp.  
No. Class Int. Remark  
107 A3 8  
108 A5 10  
109 G5 3  
110 A3 3  
111 F2 9  
112 G0 9  
113 F5 3  
114 G5 4  
115 G5 3  
116 K 2  
117 F8 3  
118 G5 3  
119 K2 2  
120 F0 7  
121 A3 3  
122 K2 2  
123 K5 3  
124 G0 3  
125 K2 2  
126 G0 2  
127 G5 3  
128 F8 2  
129 M0 10  
130 F8 4  
131 A2 7  
132 K0 3  
133 K0 7  
[left page]

[right page]  
169

107 -42° 802 2 18.0 -42 33.5 8.8 ^  
108 -42° 813 2 20.0 -42 43.6 7.4 ^  
109 -42° 817 2 20.8 -42 44.1 9.4 ^  
110 -43° 736 2 20.0 -43 26.1 9.4 ^  
111 -42° 829 2 23.4 -42 59.0 8.0 ^  
112 -42° 834 2 24.3 -42 38.0 7.7 ^  
113 -42° 832 2 24.0 -42 26.2 8.9 ^  
114 -42° 836 2 24.8 -42 25.0 8.8 ^  
115 -41° 705 2 24.5 -41 55.3 9.1 ^  
116 -41° 713 2 26.2 -41 31.7 9.0 ^  
117 -42° 847 2 26.6 -42 21.2 9.4 ^  
118 -42° 841 2 25.6 -42 48.6 9.1 ^  
119 -43° 755 2 24.7 -43 29.8 9.1 ^  
120 -43° 762 2 25.3 -43 48.0 8.6 ^  
121 -44° 756 2 26.4 -44 8.4 9.3 ^  
122 -43° 773 2 27.2 -43 49.3 9.1 ^  
123 -44° 775 2 29.6 -44 20.3 8.4 ^  
124 -43° 783 2 29.6 -43 31.4 9.3 ^  
125 -42° 860 2 29.4 -42 51.1 9.5 ^  
126 -42° 861 2 29.6 -42 52.0 9.5 ^  
127 -42° 859 2 29.1 -42 25.3 9.1 ^  
128 -42° 863 2 30.0 -42 29.3 9.6 ^

The image shows a photograph of an open notebook with two pages of handwritten astronomical data. The left page is numbered 168 and the right page is numbered 169. The data is organized in columns, with handwritten entries in cursive script. The right page has some additional markings and a small diagram at the bottom right.

129 -42° 865 2 30.2 -42 39.5 7.3 ^  
130 -43° 789 2 31.0 -43 20.9 8.8 ^  
131 -43° 798 2 32.3 -43 30.3 8.9 ^  
132 -43° 795 2 31.9 -43 49.7 9.1 ^  
133 -43° 802 2 32.9 -43 46.7 8.0 ^  
[/right page]

Project PHaEDRA - Annie Jump Cannon 40  
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170

March 11, 1912

B24090 short disp.

[[4 column table]]

No. | Class | Int. | Remark

134	G0	5	
135	F0	5	
136	K0	7	
137	A5	8	
138	K0	4	
139	G	6	nearly all superimposed on 140
140	A5	8	
141	K0	7	
142	K0	8	
143	K0	8	
144	G5	6	
145	G0	3	
146	K5	3	
147	K2	4	
148	A5	6	
149	G5	6	
150	MB	4	
151	G5	8	

Time: 23hrs 45 min.

171

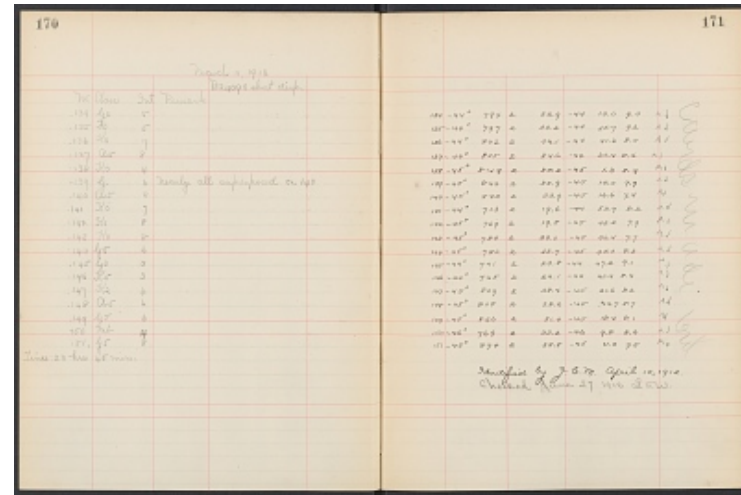
[[5 column table]]

134	-44° 794	2 32.9	-44 13.0	9.0
135	-44° 797	2 33.2	-44 25.7	9.2
136	-44° 802	2 34.1	-44 41.6	8.0
137	-44° 805	2 34.6	-44 20.4	8.4
138	-45° 849	2 35.2	-45 1.3	8.9
139	-45° 844	2 33.9	-45 15.0	7.9
140	-45° 843	2 33.9	-45 16.6	7.4
141	-44° 713	2 19.6	-44 53.7	8.2
142	-45° 769	2 19.8	-45 42.2	7.9
143	-45° 784	2 23.0	-45 36.4	7.7
144	-45° 786	2 23.7	-45 35.0	8.3
145	-44° 741	2 23.8	-44 47.2	9.1
146	-44° 745	2 24.1	-44 40.4	8.4
147	-45° 809	2 28.4	-45 21.6	8.2
148	-45° 808	2 28.2	-45 44.7	8.7
149	-45° 826	2 31.4	-45 18.4	8.1
150	-46° 769	2 33.2	-46 9.8	8.6
151	-45° 874	2 38.8	-45 11.0	7.5

Identified by J.G.M. April 10, 1912

Checked June 27 1912 L.H.W.

[[right hand margin]]



Cards made out

Project PHaEDRA - Annie Jump Cannon 40  
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172

March 12, 1912  
Time 12.55 B 23840 Short disp.  
[[4 column table]]

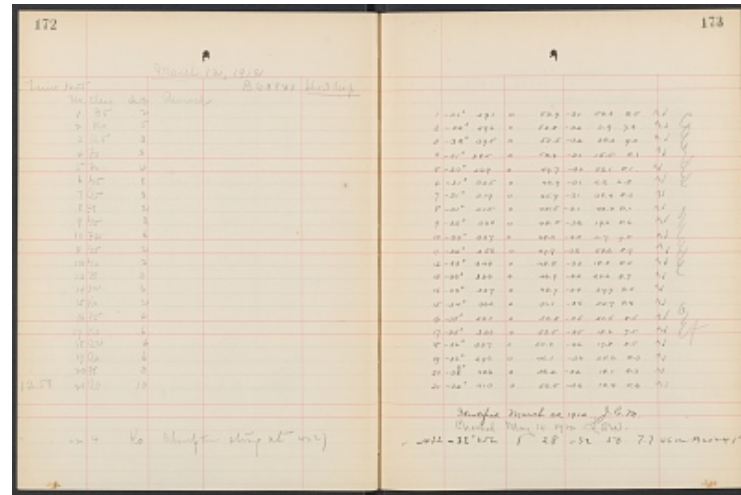
No.	Class	Int.	Remark
1	G5	2	
2	K0	5	
3	A5	3	
4	F0	3	
5	F0	4	
6	G5	8	
7	A5	3	
8	F8	2	
9	G5	3	
10	F2	6	
11	G5	2	
12	G0	2	
13	F8	3	
14	F2	6	
15	K0	2	
16	F5	4	
17	K0	6	
18	A2	4	
19	A0	6	
20	F8	3	
12.58			
21	A0	10	
22	4	K0	Absorption strong at 4227

173

[[5 column table]]

1	-31°	391	0	53.9	-31	56.3	8.5
2	-32°	396	0	53.8	-32	0.9	7.4
3	-32°	395	0	53.5	-32	38.0	9.0
4	-31°	385	0	53.4	-31	15.5	8.1
5	-30°	269	0	47.7	-30	52.1	8.1
6	-31°	325	0	46.9	-31	2.2	6.8
7	-31°	319	0	45.9	-31	38.4	8.3
8	-31°	315	0	45.5	-31	40.4	8.1
9	-32°	360	0	48.5	-32	19.6	8.6
10	-33°	337	0	48.0	-33	0.7	7.5
11	-32°	356	0	47.9	-32	54.6	8.9
12	-33°	344	0	48.8	-33	18.3	8.5
13	-33°	330	0	46.9	-33	20.6	8.7
14	-34°	337	0	48.7	-34	37.7	8.3
15	-34°	360	0	51.1	-34	32.7	8.4
16	-35°	320	0	50.8	-35	20.5	8.5
17	-35°	336	0	53.5	-35	18.6	7.5
18	-36°	327	0	50.4	-36	17.8	8.5
19	-36°	296	0	46.1	-36	25.6	8.3
20	-32°	406	0	56.2	-32	18.1	5.6
21	-32°	410	0	56.5	-32	13.4	5.6

Identified March 22, 1912. J.C.M.



Checked May 14 1912 L.D.W.

22 | -32° 452 | 1 2.8 | -32 50 | 7.7 46 on B 20245

~~[[strikethrough]] -3~~ ~~[[/strikethrough]] 22-32^0 452 1 2.8 -32 50 7.7~~  
46m B20245

[[right hand margin]]

cards made out

[[/right hand margin]]

Project PHaEDRA - Annie Jump Cannon 40  
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[left page]  
174

March 14, 1912

Line 1.45 B22068 [underline]Lhordisp[/underline]

No. Class Int. Remark

1 K0 7  
2 B9 7  
3 F5 5  
4 A 9  
5 A 10  
6 G5 8  
7 A2 8  
8 G0 4  
9 G5 7  
10 G0 7  
11 Ma 7  
12 A3 10+  
13 G5 4  
14 F0 4  
15 Ma 8  
16 K2 2  
17 F8 8  
18 G 2  
19 G 2  
20 G0 3 [strikethrough]2[/strikethrough]  
21 F8 4  
22 F8 5  
23 G5 6  
24 F5 2  
25 F8 3  
26 K0 5  
27 G5 7  
[/left page]

[right page]  
175

1 -63° 4931 23 43.0 -63 32.0 7.9 ^  
2 -62° 6456 23 50.9 -62 27.5 7.6 ^  
3 -62° 6459 23 52.3 -62 17.0 7.9 ^  
4 -63° 4938 23 49.6 -63 34.1 7.4 ^  
5 -63° 4940 23 50.8 -63 39.2 6.4 ^  
6 -63° 4941 23 51.8 -63 42.1 7.6 ^  
7 -63° 4944 23 55.0 -63 37.2 7.6 ^  
8 -61° 6795 23 59.1 -61 55.1 8.5 ^  
9 -62° 6468 23 59.2 -62 0.5 8.0 ^  
10 -63° 4949 23 58.8 -63 32.4 8.3 ^  
11 -63° 5 0 1.3 -63 0.7 8.8 ^  
12 -62° 3 0 3.6 -62 59.6 6.7 ^  
13 -62° 14 0 6.5 -62 0.7 8.4 ^  
14 -62° 13 0 6.2 -62 18.1 8.5 ^  
15 -63° 19 0 8.2 -63 28.0 8.4 ^  
16 -63° 23 0 10.1 -63 51.3 9.1 ^  
17 -64° 17 0 12.4 -64 10.1 7.8 ^  
18 -64° 16 0 12.3 -64 21.6 9.1 ^  
19 -63° 31 0 14.8 -63 59.9 9.2 ^  
20 -63° 33 0 16.1 -63 58.8 9.2 ^  
21 -64° 23 0 16.6 -64 22.2 8.9 ^  
22 -64° 27 0 19.1 -64 38.6 8.6 ^

174		175	
March 14, 1912		March 14, 1912	
Line	Int.	Line	Int.
1	43.0	1	43.0
2	50.9	2	27.5
3	52.3	3	17.0
4	49.6	4	34.1
5	50.8	5	39.2
6	51.8	6	42.1
7	55.0	7	37.2
8	59.1	8	55.1
9	59.2	9	0.5
10	58.8	10	32.4
11	5	11	0.7
12	3	12	59.6
13	14	13	0.7
14	13	14	18.1
15	19	15	28.0
16	23	16	51.3
17	17	17	10.1
18	16	18	21.6
19	31	19	59.9
20	33	20	58.8
21	23	21	22.2
22	27	22	38.6



23 -64° 30 0 19.8 -64 42.1 8.4 ^  
24 -62° 18 0 9.7 -62 14.1 9.1 ^  
25 -62° 19 0 9.8 -62 29.4 9.0 ^  
26 -62° 25 0 14.5 -62 23.6 8.6 ^  
27 -63° 35 0 17.7 -63 7.3 7.8 ^  
[/right page]

Project PHaEDRA - Annie Jump Cannon 40  
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March 14, 1912

B22068 Short disp.

[[4 column tablet]]

No.	Class	Int.	Remark
28	F2	7	
29	F5	2	
30	K2	2	
31	G	2	
32	F5	3	
33	F5	2	
34	B9	3	
35	G	2	
36	B	10+	Burned out.
37	A	10+	
38	B5	4	
39	K2	3	
40	G5	5	
41	K	2	
42	F5	3	
43	G	2	
44	K	2	
45	F5	10	
46	F0	5	
47	K0	3	
48	G5	3	
49	A3	3	
50	A5	3	
51	F8	3	
52	K2	3	
53	G0	3	
54	F8	7	

176

[[5 column tablet]]

28	-62°	31	0	19.1	-62	54.0	8.2
29	-62°	32	0	19.5	-62	48.4	9.0
30	-62°	33	0	20.2	-62	13.7	9.0
31	-62°	38	0	23.9	-62	10.5	8.8
32	-62°	43	0	25.8	-62	2.2	8.8
33	-61°	26	0	26.1	-61	38.0	9.1
34	-61°	27	0	26.5	-61	32.0	8.8
35	-61°	28	0	26.7	-61	21.8	9.2
36	-63°	50	0	25.8	-63	38.9	3.8
37	-63°	52	0	27.0	-63	43.1	5.1
38	-63°	56	0	28.7	-63	45.1	8.8
39	-64°	49	0	27.8	-64	21.9	9.2
40	-64°	51	0	29.2	-64	22.0	9.2
41	-64°	47	0	27.6	-64	35.9	9.4
42	-63°	64	0	32.7	-63	10.0	9.0
43	-63°	70	0	37.8	-63	11.9	9.4
44	-63°	69	0	37.7	-63	26.9	9.8

45	-63°	72	0	39.1	-63	10.9	6.6
46	-63°	75	0	40.9	-63	21.5	7.5
47	-63°	76	0	41.5	-63	24.5	8.6
48	-62°	63	0	41.1	-62	45.5	9.0
49	-62°	66	0	43.4	-62	24.6	8.8
50	-61°	38	0	43.7	-61	43.9	8.8
51	-61°	34	0	38.1	-61	22.1	8.8
52	-62°	56	0	36.6	-62	3.0	9.2
53	-62°	55	0	35.9	-62	12.0	9.1
54	-61°	44	0	47.7	-61	45.2	7.8

[[right hand margin]]

cards made out

Project PHaEDRA - Annie Jump Cannon 40  
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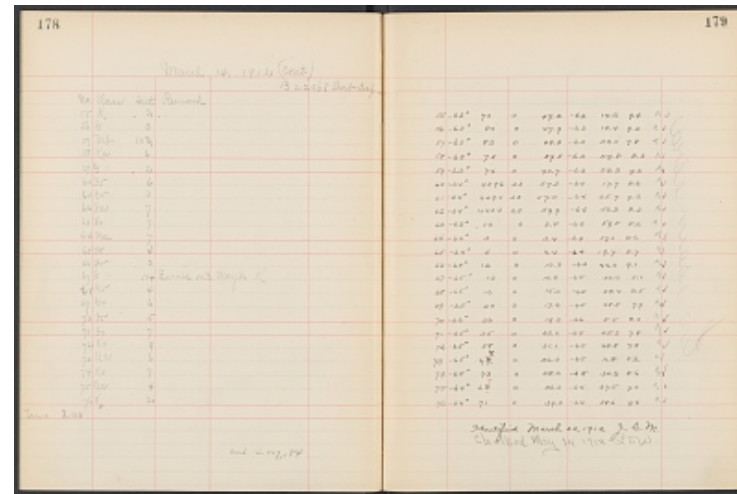
178  
 March 14th, 1912 (cont)  
 B 22068 Short disp-  
 [4 columns]  
 No. | Class | Int. | Remark  
 55 | K | 2  
 56 | G | 3  
 57 | Mb | 10 ~~[[strikeout]]~~ 2 ~~[[strikeout]]~~  
 58 | K2 | 6  
 59 | G | 2  
 60 | F5 | 6  
 61 | G5 | 3  
 62 | F2 | 7  
 63 | F0 | 7  
 64 | Ma | 7  
 65 | F8 | 4  
 66 | F5 | 3  
 67 | G | 10+ | Burned out. Maybe K  
 68 | G5 | 4  
 69 | G0 | 6  
 70 | F5 | 5  
 71 | F0 | 7  
 72 | K0 | 9  
 73 | A2 | 6  
 74 | K0 | 7  
 75 | A2 | 4  
 76 | K | 2

Time 2.00

Cont. in 127,184

179  
 Cards Made Out  
 [5 columns]  
 55-62° 70|0 47.2|-62 14.6|9.4|^  
 56-63° 80|0 47.9|-63 14.4|9.2|^  
 57-63° 83|0 48.4|-63 33.0|7.8|^  
 58-63° 73|0 39.5|-63 52.8|8.3|^  
 59-63° 74|0 40.7|-63 58.3|9.2|^  
 60-64° 4396|23 57.3|-64 17.7|8.6|^  
 61-64° 4394|23 57.0|-64 25.7|9.2|^  
 62-64° 4404|23 59.9|-64 56.2|8.2|^  
 63-63° 10|0 3.8|-63 59.5|8.2|^  
 64-64° 3|0 3.4|-64 17.0|8.6|^  
 65-64° 5|0 4.4|-64 19.7|8.7|^  
 66-64° 12|0 10.3|-64 44.0|9.1|^  
 67-65° 13|0 13.6|-65 36.3|5.1|^  
 68-65° 16|0 15.0|-65 48.4|8.5|^  
 69-65° 20|0 17.2|-65 48.8|7.9|^  
 70-66° 26|0 19.3|-66 5.5|8.0|^  
 71-65° 35|0 22.6|-65 25.3|7.8|^  
 72-65° 58|0 31.1|-65 48.8|7.8|^  
 73-65° 6|0 36.3|-65 11.8|8.2|^  
 74-65° 73|0 38.0|-65 30.2|8.6|^  
 75-64° 67|0 36.3|-64 37.5|9.0|^  
 76-64° 71|0 39.4|-64 38.6|9.4|^

Identified March 22, 1912 J.C.M.



checked May 14 1912 LSW.

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March 14, 1912

Time 2:03

B38370 Short disp.

[[4 column table]]

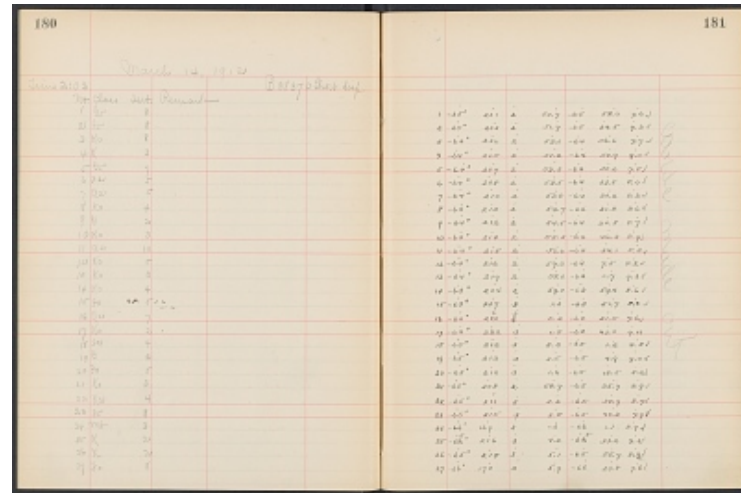
No.	Class	Int.	Remark
1	G5	8	
2	F5	8	
3	K0	8	
4	K	3	
5	G5	7	
6	F2	5	
7	A2	5	
8	K0	4	
9	G	2	
10	K0	3	
11	A2	10	
12	K0	5	
13	K0	3	
14	K0	4	
15	F0	5	
16	A2	7	
17	K0	2	
18	F2	4	
19	G	2	
20	F0	5	
21	K0	3	
22	K2	4	
23	F5	8	
24	Mb	3	
25	K	2	
26	K	2	
27	F0	8	

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Cards Made Out

[[5 column table]]

1	-65	201	2	50.7	-65	58.0	7.6
2	-65	203	2	51.7	-65	24.5	7.3
3	-64	206	2	52.0	-64	56.6	7.7
4	-64	205	2	51.2	-64	50.9	9.0
5	-64	207	2	52.3	-64	30.6	7.8
6	-64	208	2	52.5	-64	32.8	8.0
7	-64	210	2	53.8	-64	20.2	8.2
8	-64	213	2	54.7	-64	21.3	8.6
9	-64	212	2	54.5	-64	30.8	8.7
10	-64	214	2	55.3	-64	46.3	8.9
11	-64	215	2	56.4	-64	34.1	5.3
12	-64	216	2	57.3	-64	7.5	8.2
13	-64	219	2	58.0	-64	0.7	9.3
14	-63	204	2	59.0	-63	59.4	8.6
15	-63	207	3	1.0	-63	51.7	8.0
16	-63	220	3	0.2	-64	21.5	7.6



17	-64	222	3	1.8	-64	42.0		9.1
18	-65	212	3	2.3	-65	1.2		8.8
19	-65	213	3	2.5	-65	4.9		9.0
20	-65	210	3	1.6	-65	18.5		8.2
21	-65	208	2	58.7	-65	35.7		8.9
22	-65	211	3	2.2	-65	38.9		8.7
23	-65	215	3	2.8	-65	40.2		7.9
24	-66	169	3	1.6	-66	1.1		8.7
25	-65	216	3	4.2	-65	33.2		9.1
26	-65	218	3	5.1	-65	55.7		8.9
27	-66	170	3	5.9	-66	23.8		7.6

Project PHaEDRA - Annie Jump Cannon 40  
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[[Left page]]

March 14, 1912 (Cont.)  
B38370

No. Class [[Sut.??]] Remark

28 F 2  
29 F5 3  
30 F8 7  
31 Ko 3  
32 A2 10  
33 F5 6  
34 A2 7  
35 A3 6  
36 A3 5  
37 Ko 4  
38 Ko 3  
39 K2 3  
40 Ko 2  
41 F8 6  
42 Ko 5  
43 G5 5  
44 Ko 5  
45 Ko 4  
46 A3 5  
47 Ma 4  
48 Ko 3 The north-preventing of two  
49 A 3 The south-following of two. Different due to  
superportion  
50 K5 4 E  
Time 2.15 - 2.56  
51 B\$ 10 Too dense  
52 A3 7  
53 F 5 E  
54 A 8 E

[[Right page]]

28 - 66° 174 3 8.2 - 66 51.0 8.6  
29 - 66° 175 3 8.9 - 66 58.1 8.3  
30 - 66° 180 3 12.0 - 66 17.5 8.3  
31 - 67° 215 3 12.7 - 67 7.1 8.5  
32 - 67° 217 3 16.6 - 67 22.7 6.3  
33 - 66° 184 3 17.4 - 66 20.2 7.7  
34 - 66° 185 3 17.5 - 66 10.8 7.2  
35 - 66° 188 3 19.0 - 66 14.2 7.6  
36 - 66° 189 3 20.9 - 66 13.5 7.7  
37 - 66° 190 3 21.2 - 66 0.0 8.8  
38 - 65° 237 3 23.4 - 65 26.4 8.5  
39 - 65° 241 3 25.6 - 65 5.0 8.7  
40 - 64° 244 3 25.6 - 64 45.9 8.9  
41 - 64° 245 3 26.1 - 64 40.3 8.3  
42 - 64° 247 3 27.1 - 64 23.2 8.5  
43 - 64° 249 3 28.6 - 64 32.7 8.3  
44 - 65° 248 3 28.9 - 65 4.5 8.5  
45 - 65° 246 3 29.1 - 65 24.6 8.6  
46 - 65° 247 3 29.2 - 65 34.9 8.4  
47 - 65° 250 3 30.7 - 65 50.1 8.7  
48 - 66° 197 3 30.6 - 66 4.1 8.5  
49 - 66° 198 3 30.7 - 66 7.3 8.7  
50 - 66° 196 3 29.8 - 66 42.9 8.7

The image shows an open notebook with two pages of handwritten data. The left page is numbered 182 and the right page is numbered 183. The pages contain tables of numbers and text, likely representing star positions or observations. The handwriting is in cursive and somewhat faded. The notebook has a dark cover visible around the edges.



51 - 66°	195	3	29.6	- 66	54.7	5.8
52 - 67°	236	3	31.6	- 67	9.0	7.7
53 - 66°	200	3	36.3	- 66	56.1	8.4
54 - 66°	203	3	40.4	- 66	52.5	7.9

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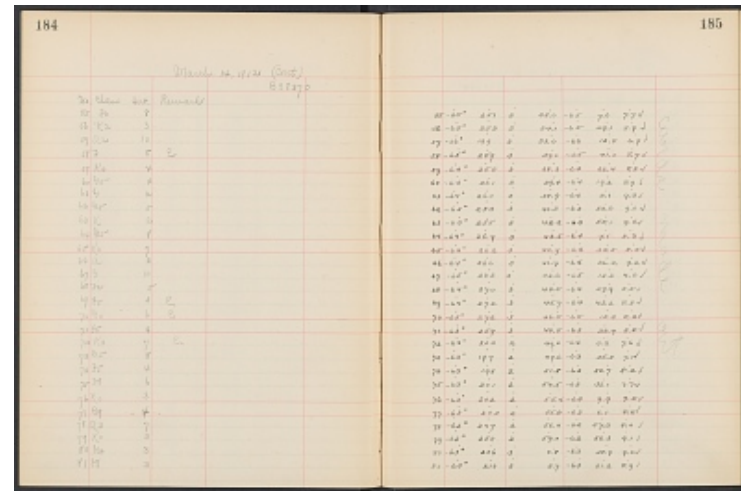
March 14, 1912 (Cont)  
B38370

[4 column table]  
[No.] [Class] [Int.] [Remark]  
----|----|----|

55. [F0] 8 |  
56. [K2] 3 |  
57. [A2] 10 |  
58. [F5] E |  
59. [K0] 4 |  
60. [G5] 4 |  
61. [G2] |  
62. [G5] 5 |  
63. [K2] |  
64. [G5] 8 |  
65. [K0] 7 |  
66. [A3] |  
67. [G1] 10 |  
68. [F2] 5 |  
69. [F5] 3 E |  
70. [G0] 6 E |  
71. [F5] 4 |  
72. [K0] 7 E |  
74. [F5] 4 |  
75. [F8] 6 |  
76. [K0] 3 |  
77. [B9] 4 |  
78. [A3] 7 |  
79. [K0] 3 |  
80. [G0] 3 |  
81. [F8] 3 |

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55-65 | 251 | 3 | 33.0 | -65 | 7.6 | 7.7  
56-65 | 253 | 3 | 34.1 | -65 | 29.1 | 8.9  
57-66 | 199 | 3 | 33.0 | -66 | 10.8 | 6.9  
58-65 | 259 | 3 | 39.0 | -65 | 41.0 | 8.7  
59-64 | 258 | 3 | 38.3 | -64 | 26.4 | 8.8  
60-64 | 261 | 3 | 39.4 | -64 | 17.2 | 8.9  
61-64 | 260 | 3 | 38.9 | -64 | 3.1 | 9.3  
62-63 | 253 | 3 | 41.3 | -63 | 50.6 | 9.0  
63-63 | 255 | 3 | 42.2 | -63 | 55.1 | 9.4  
64-64 | 269 | 3 | 43.5 | -64 | 7.1 | 8.3  
65-64 | 262 | 3 | 40.9 | -64 | 35.5 | 8.5  
66-64 | 266 | 3 | 41.9 | -64 | 36.2 | 9.2  
67-65 | 263 | 3 | 42.6 | -65 | 12.2 | 4.8  
68-64 | 270 | 3 | 44.5 | -64 | 27.9 | 8.5  
69-64 | 272 | 3 | 45.7 | -64 | 43.2 | 8.8  
70-65 | 272 | 3 | 46.5 | -65 | 13.3 | 8.2  
71-63 | 259 | 3 | 44.5 | -63 | 32.9 | 8.8  
72-64 | 203 | 2 | 49.0 | -64 | 3.2 | 7.6  
73-63 | 197 | 2 | 49.6 | -63 | 25.3 | 7.1  
74-63 | 198 | 2 | 51.8 | -63 | 30.7 | 8.2  
75-63 | 201 | 2 | 54.5 | -63 | 32.1 | 7.7



76	-63	202	2	55.4	-63	9.9	9.3
77	-63	203	2	55.8	-63	6.1	8.6
78	-62	247	2	56.4	-62	57.3	8.0
79	-62	250	2	59.0	-62	56.3	9.1
80	-63	206	3	0.8	-63	28.9	9.0
81	-63	210	3	3.7	-63	21.2	8.9

[[cards made out]]

Project PHaEDRA - Annie Jump Cannon 40  
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March 14, 1912 (cont)  
B 38370

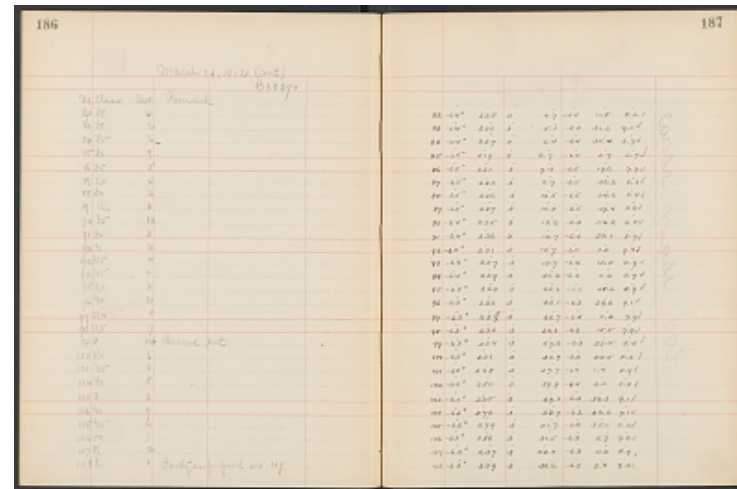
[[4 Column table]]  
No.[Class]Int.[Remark

82	F8	4	
83	F8	2	
84	F5	2	
85	F0	9	
86	F5	5	
87	K0	4	
88	F0	2	
89	A	3	
90	F5	10	
91	F0	3	
92	G	2	
93	G5	2	
94	G5	4	
95	K0	3	
96	G0	2	
97	A3	8	
98	A5	7	
99	F	10+	Burned out.
100	K0	6	
101	G5	3	
102	F0	5	
103	F	3	
104	G0	9	
105	G5	6	
106	F0	7	
107	K	2	
108	K	1	Partly superposed on 109

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[[5 Column table]]

82	-64°	225	3 4.7	-64 11.8	8.6		
83	-64°	226	3 5.1	-64 31.2	9.0		
84	-64°	227	3 6.4	-64 35.4	8.7		
85	-65°	219	3 6.7	-65 2.7	6.7		
86	-65°	221	3 7.4	-65 19.6	7.7		
87	-65°	223	3 8.7	-65 26.2	8.3		
88	-65°	226	3 10.5	-65 34.6	8.8		
89	-65°	227	3 10.8	-65 49.4	8.6		
90	-64°	235	3 13.2	-64 54.2	6.5		
91	-64°	236	3 14.7	-64 38.1	8.7		
92	-65°	231	3 15.7	-65 1.2	9.4		
93	-64°	237	3 15.7	-64 15.8	8.9		
94	-64°	239	3 20.2	-64 0.2	8.7		
95	-63°	224	3 22.6	-63 28.6	8.9		
96	-63°	226	3 23.1	-63 29.2	9.1		
97	-63°	22	[[strikethrough]] 7	[[strikethrough]] 5	3 22.7	-63 0.2	7.9
98	-63°	230	3 24.6	-63 15.5	7.9		
99	-63°	234	3 27.2	-63 22.5	5.4		
100	-63°	231	3 24.9	-63 55.5	8.3		



101	-64°	248	3	27.7	-64	1.4	8.9
102	-64°	250	3	29.9	-64	6.0	8.4
103	-63°	235	3	29.4	-63	36.3	9.1
104	-62°	276	3	28.7	-62	26.0	7.1
105	-62°	279	3	31.7	-62	35.0	8.2
106	-63°	236	3	31.5	-63	3.7	7.2
107	-63°	237	3	32.0	-63	11.2	8.9
108	-63°	239	3	32.6	-63	3.0	9.0

cards made out

Project PHaEDRA - Annie Jump Cannon 40  
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March 14, 1912 (cont)

B38370

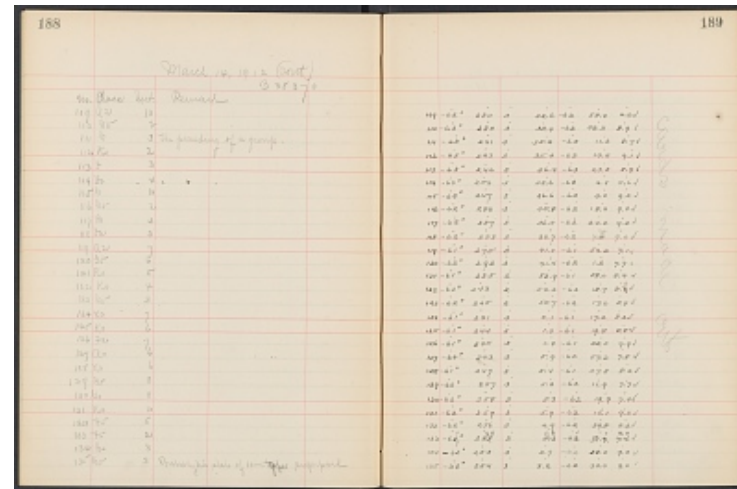
[[4 column table]]

No.	Class	Int.	Remark
109	A2	10	
110	G5	2	
111	G	3	The preceding of a group.
112	K	2	
113	F	3	
114	F0	4	
115	G	2	
116	G5	2	
117	F0	3	
118	F2	3	
119	A2	7	
120	G5	6	
121	K0	5	
122	K0	4	
123	G5	3	
124	K0	7	
125	K0	6	
126	F2	7	
127	A0	6	
128	K0	6	
129	G5	8	
130	G0	8	
131	K0	2	
132	F5	5	
133	F5	2	
134	G0	3	
135	G5	3	Probably in [[best guess?]] stars of same types superimposed

189

[[5 column table]]

109	-62°	280	3	32.6	-62	58.4	6.6
110	-62°	283	3	33.4	-62	52.3	8.9
111	-63°	241	3	35.2	-63	11.6	8.7
112	-63°	243	3	35.4	-63	13.3	9.1
113	-64°	246	3	36.4	-63	23.3	8.9
114	-63°	254	3	33.6	-64	4.8	8.6
115	-63°	247	3	36.6	-63	3.0	9.2
116	-62°	286	3	35.8	-62	18.4	9.4
117	-62°	287	3	36.0	-62	24.2	9.2
118	-62°	288	3	36.7	-62	7.8	9.0
119	-61°	275	3	41.0	-61	54.2	7.1
120	-62°	292	3	41.4	-62	1.2	7.7
121	-61°	235	2	52.9	-61	58.0	8.4
122	-62°	243	2	54.2	-62	18.7	8.8
123	-62°	245	3	55.7	-62	17.6	8.8
124	-61°	241	3	0.1	-61	17.2	8.2



125	-61°	244	3	1.0	-61	19.8	8.8
126	-61°	245	3	1.4	-61	32.0	7.9
127	-60°	243	3	5.9	-60	57.2	7.8
128	-61°	247	3	5.4	-61	37.8	8.2
129	-62°	257	3	5.0	-62	11.9	7.7
130	-62°	258	3	5.3	-62	19.9	7.4
131	-62°	259	3	5.9	-62	15.1	9.2
132	-62°	256	3	4.9	-62	39.8	8.2
133	-6	<del>1</del>	1°	<del>246</del>	3	<del>1.6</del>	
6	<del>1</del>	59.	<del>1</del>	<del>9.0</del>			
134	-62°	253	3	2.9	-62	28.0	9.0
135	-62°	254	3	3.2	-62	33.0	9.0

[[right hand margin]]

Cards Made out

Project PHaEDRA - Annie Jump Cannon 40  
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190

March 14, 1912 (cont)  
-B38370  
[[4 column table]]

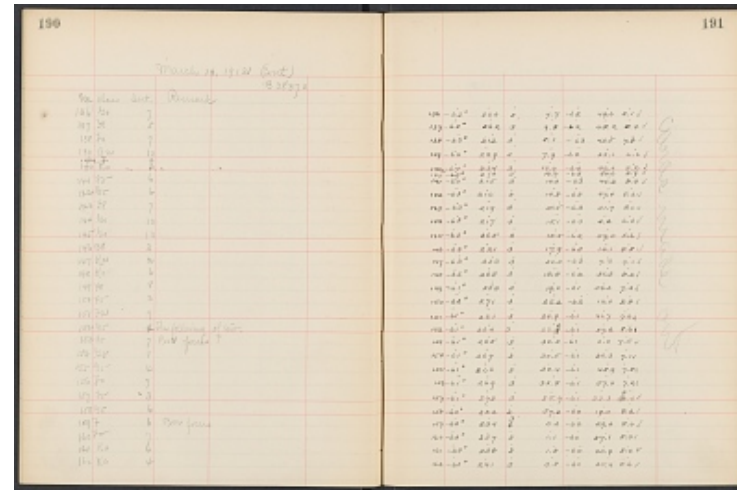
No. | Class | Int. | Remark

--|---|---|---  
136|G0|7|  
137|F8|5|  
138|F0|7|  
139|A2|10|  
140a|7|4|  
140|K0|3|  
141|F5|6|  
142|G5|6|  
143|F8|7|  
144|G0|10|  
145|G0|10|  
146|B8|3|  
147|K2|2|  
148|K0|6|  
149|F8|8|  
150|F5|3|  
151|F2|7|  
152|G5|4|The following of two.  
153|F5|7|Poor focus  
154|G5|8|  
155|G5|4|  
156|F0|7|  
157|F5|3|  
158|G5|6|  
159|F6|6|Poor focus  
160|F2|7|  
161|K0|6|  
162|K0|4|

191

Cards made out  
[[5 column table]]

136	-62° 260	3 7.7	-62 49.6	8.1
137	-62° 262	3 9.8	-62 45.2	8.4
138	-63° 212	3 8.1	-63 43.5	7.8
139	-64° 229	3 7.9	-64 23.1	6.6
140a	-64° 234	3 10.0	-64 48.1	8.6
140	-63° 214	3 13.6	-63 26.6	8.9
141	-63° 215	3 14.0	-63 44.2	8.3
142	-63° 216	3 14.8	-63 47.4	8.2
143	-63° 219	3 15.5	-63 31.7	8.0
144	-63° 217	3 15.1	-63 3.2	6.4
145	-62° 265	3 15.5	-62 59.0	5.6
146	-63° 221	3 17.9	-63 14.1	8.8
147	-63° 223	3 20.0	-63 7.3	9.0
148	-62° 268	3 18.8	-62 31.3	8.2
149	-61° 253	3 19.0	-61 56.0	7.3
150	-62° 271	3 22.2	-62 16.0	8.8
151	-61° 261	3 24.9	-61 41.7	7.6





152	-61° 264	3 26.2	-61 37.2	8.6
153	-61° 265	3 30.3	-61 0.0	7.5
154	-61° 267	3 30.5	-61 26.3	7.1
155	-61° 266	3 30.4	-61 48.9	7.8
156	-61° 269	3 33.8	-61 57.4	7.2
157	-61° 273	3 35.9	-61 22.3	8.4
158	-60° 232	2 57.2	-60 19.0	8.2
159	-60° 234	<del>2</del>	<del>3 0.0</del>   -60 29.4	8.0
160	-60° 237	3 1.1	-60 27.1	8.0
161	-60° 238	3 1.8	-60 40.9	8.4
162	-60° 241	3 3.8	-60 35.4	8.6

Project PHaEDRA - Annie Jump Cannon 40  
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192  
 March 9, 1912 (cont.)  
 B38370  
 [[4 columned table]]  

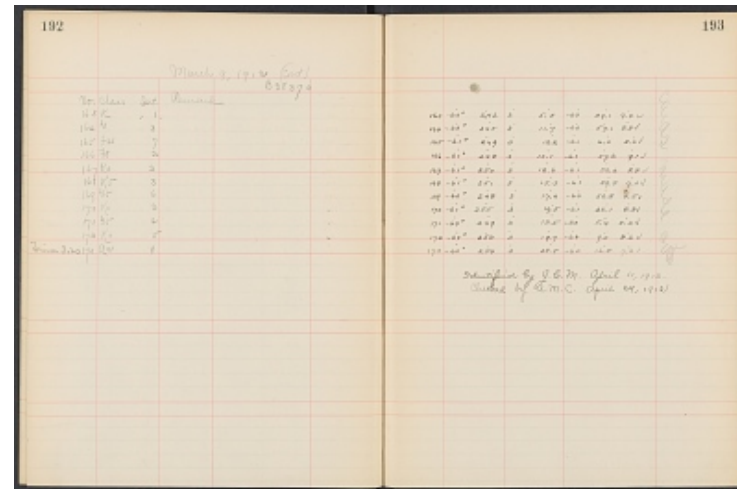
No.	Class	Int.	Remark
163	K	1	
164	G	3	
165	F2	7	
166	F8	2	
167	Ko	3	
168	K5	3	
169	G5	6	
170	Ko	3	
171	G5	4	
172	Ko	5	
173	A2	8	

 June 3, 20

193  
 [[check mark after every last entry]]  
 [[Multiple marks throughout the page as if checking their work]]  
 [[5 column tablet]]  

163	-60° 242	3 5.5	-60 39.1 9.4
164	-60° 245	3 11.7	-60 57.1 8.8
165	-61° 249	3 12.2	-61 6.0 8.0
166	-61° 248	3 10.1	-61 57.6 9.1
167	-61° 250	3 12.6	-61 50.2 8.8
168	-61° 251	3 15.3	-61 29.8 9.0
169	-60° 248	3 17.4	-60 56.8 8.5
170	-61° 255	3 19.5	-61 26.1 8.8
171	-60° 249	3 18.5	-60 5.4 8.2
172	-60° 250	3 19.7	-60 9.0 8.2
173	-60° 254	3 28.8	-60 16.8 7.0

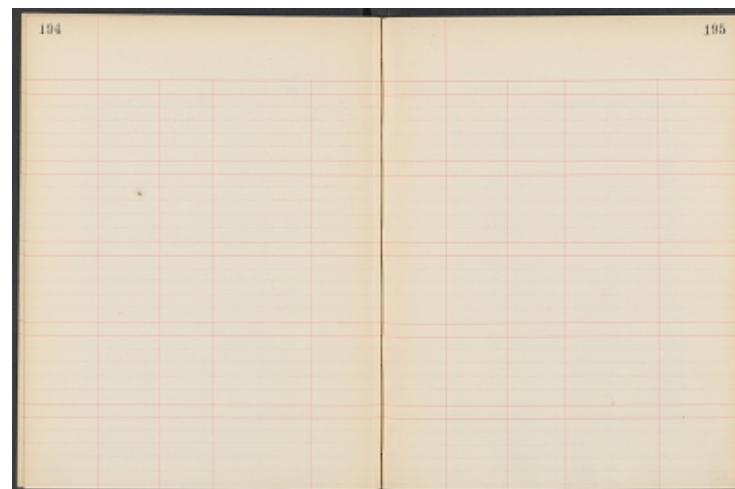
 Identified by J. G. M. April 11, 1912.  
 Checked by A.M.C. April 29, 1912



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Project PHaEDRA - Annie Jump Cannon 40  
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[[left page]]  
196

March 14, 1912  
Time 3.40 B20429 Short disp

[[4 Columned Table]]  
No. | Class | Int. | Remark

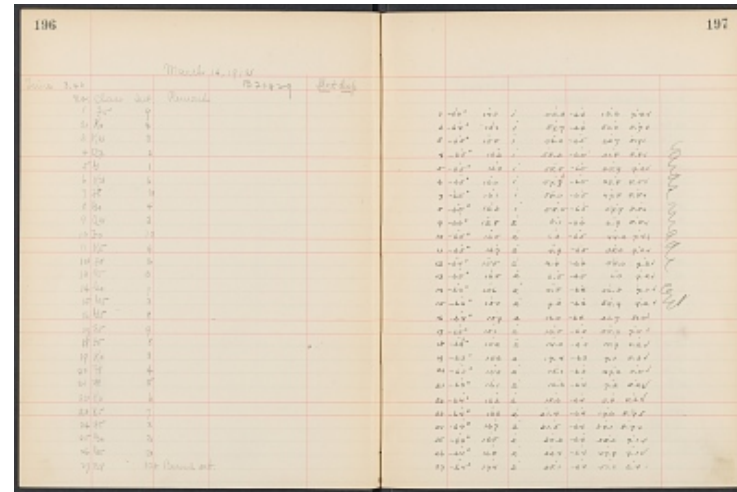
1	F5	9	
2	K0	4	
3	K2	3	
4	A3	3	
5	G	1	
6	K2	6	
7	F8	2	
8	G0	4	
9	A2	3	
10	F0	10	
11	K5	4	
12	F8	2	
13	G5	3	
14	G5	9	
15	G5	3	
16	G5	8	
17	F5	9	
18	F5	8	
19	K0	8	
20	F8	4	
21	F8	5	
22	K0	6	
23	K5	7	
24	F5	3	
25	G0	2	
26	G5	2	
27	B8	10+	Burned out.

[[right page]]  
197

[[right margin]]  
cards made out  
[[/right margin]]

[[4 Columned Table]]

1	-64° 148	1 58.3	-64 13.6 7.4
2	-64° 151	1 59.7	-64 50.0 8.7
3	-65° 158	1 56.3	-65 23.7 8.9
4	-65° 162	1 58.2	-65 31.8 8.8
5	-65° 164	1 58.8	-65 35.9 9.2
6	-65° 160	1 57. <del>7</del>	<del>6</del>   -65 42.8 8.5
7	-65° 161	1 58.0	-65 47.8 8.8
8	-65° 163	1 58.5	-65 59.9 8.8
9	-66° 128	2 0.1	-66 6.9 8.8
10	-65° 165	2 1.3	-65 44.2 7.4
11	-65° 167	2 4.9	-65 35.0 9.0
12	-64° 155	2 4.4	-64 58.0 9.2
13	-65° 168	2 6.5	-65 1.0 9.2
14	-64° 156	2 6.8	-64 56.8 7.8



15		-64° 158		2 9.3		-64 52.9 9.2
16		-64° 159		2 11.0		-64 22.7 8.0
17		-63° 151		2 13.5		-63 58.3 7.8
18		-6 <del>[[strikethrough]]</del> 0 <del>[[/strikethrough]]</del>		3° 152		2 14.3   -63 18.9 8.2
19		-63° 156		2 7.4		-63 7.1 8.3
20		-63° 153		2 15.1		-63 49.2 8.5
21		-64° 161		2 16.6		-64 7.2 8.2
22		-64° 162		2 18.6		-64 2.4 8.6
23		-64° 166		2 21.4		-64 17.6 8.7
24		-64° 167		2 21.5		-64 34.1 8.7
25		-64° 165		2 20.2		-64 38.0 9.1
26		-64° 168		2 22.4		-64 47.9 9.1
27		-64° 174		2 25.1		-64 51.6 6.4

Project PHaEDRA - Annie Jump Cannon 40  
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March 14, 1912 (cont.)  
B20429

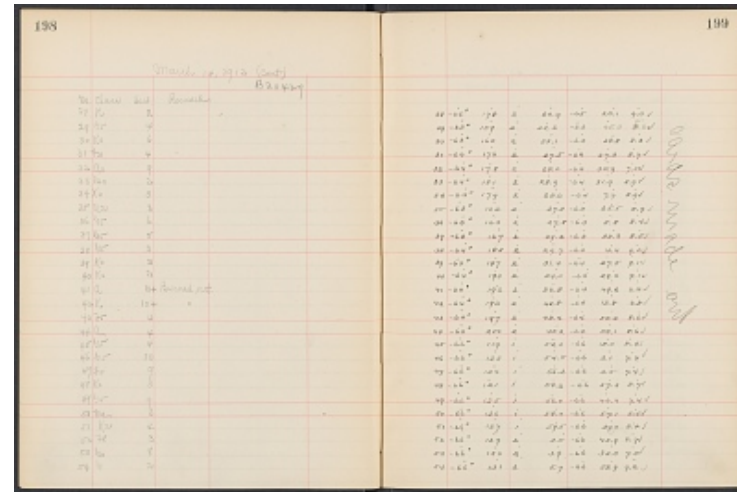
[[4 column table]]  
No. | Class | Int. | Remark |

28	K	2	
29	G5	4	
30	K0	6	
31	F2	4	
32	A0	9	
33	G0	2	
34	K0	3	
35	A0	3	
36	G5	6	
37	G5	5	
38	G5	3	
39	K0	2	
40	K0	2	
41	A	10+	Burned out.
42	K	10+	Burned out.
43	F5	4	
44	A	4	
45	G5	4	
46	G5	10	
47	F0	9	
48	K0	3	
49	G5	9	
50	Ma	6	
51	K2	4	
52	F8	3	
53	G0	8	
54	G	2	

199

[[5 column table]]  
Cards Made Out

28	-65°	178	2 24.9	-65 20.1	9.0
29	-63°	159	2 22.6	-63 45.3	8.6
30	-63°	160	2 23.1	-63 28.8	8.3
31	-64°	176	2 27.5	-64 27.3	8.7
32	-64°	178	2 28.0	-64 35.9	7.5
33	-64°	181	2 28.9	-64 31.9	8.9
34	-64°	179	2 28.6	-64 7.7	8.9
35	-63°	162	2 27.3	-63 25.5	8.9
36	-63°	163	2 27.8	-63 8.8	8.4
37	-63°	167	2 29.2	-63 33.3	8.5
38	-64°	183	2 29.7	-64 4.4	9.0
39	-64°	187	2 31.4	-64 27.5	9.1
40	-64°	190	2 34.0	-64 29.4	9.1
41	-64°	192	2 36.8	-64 49.2	6.4
42	-64°	196	2 42.8	-64 13.8	6.8
43	-64°	197	2 43.4	-64 55.2	8.6
44	-64°	200	2 45.2	-64 53.1	8.6



45	-66° 119	1 52.0	-66 18.0	8.4
46	-66° 123	1 54.5	-66 2.1	7.4
47	-66° 124	1 56.2	-66 3.5	7.4
48	-66° 121	1 54.2	-66 37.3	8.7
49	-66° 125	1 56.4	-66 40.4	7.4
50	-66° 126	1 58.0	-66 57.1	8.5
51	-66° 127	1 59.5	-66 29.0	8.4
52	-66° 129	2 2.5	-66 43.9	8.7
53	-66° 130	2 3.9	-66 32.3	7.3
54	-66° 131	2 5.7	-66 58.9	9.2

Project PHaEDRA - Annie Jump Cannon 40  
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200

March 14, 1912 (cont)  
B20429

[[4 column table]]

No|Class|Int|

---|---|---|---

55|K0|2|

56|K0|7|

57|K0|5|

58|G5|3|

59|G|2|

60|G5|3|

61|F0|6|

62|F8|3|

63|MA|6|

64|G5|3|

65|G5|8|

66|F8|3|

[[Note]] Time 3.53 [[/Note]] 67|F5|5|

68|K|1|

69|A2|7| Maybe Comp.

[[Note]] Time 4.05 [[/Note]] 70|F8|2|

71|A0|8|

72|G5|3|

73|G0|2|

74|K0|4|

75|K2|5|

76|G|2|

77|F5|5| G [[Fwd?]] not seen distinctly.

78|G5|2|

79|F8|8|

80|G5|2|

81|F5|2|

201

[[5 Column table]]

---|---|---|---|---

55|-66° 132|2 8.5|-66 56.5|9.2

56|-66° 134|2 9.8|-66 44.3|7.9

57|-66° 133|2 9.0|-66 21.5|8.5

58|-65° 169|2 9.3|-64 35.5|9.2

59|approx 1875|2 12.5|-65 2|

60|-64° 160|2 15.2|-64 52.4|9.2

61|-65° 172|2 17.5|-65 4.7|8.6

62|-65° 175|2 21.5|-65 28.1|8.9

63|-65° 174|2 21.1|-65 54.1|8.7

64|-65° 179|2 25.2|-65 52.9|9.0

65|-66° 140|2 25.4|-66 7.3|8.2

66|-66° 141|2 25.7|-66 29.1|8.9

67|-66° 142|2 26.0|-66 37.9|8.6

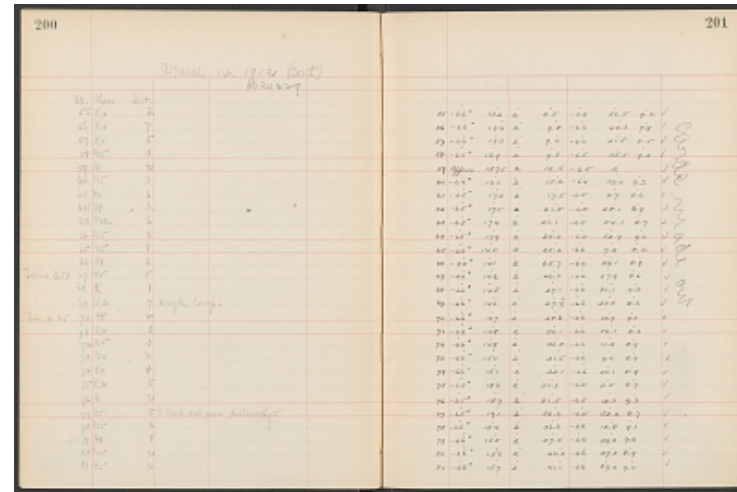
68|-66° 145|2 27.1|-66 30.1|9.3

69|-66° 146|2 27.1|~~[[/strikethrough]]~~7|~~[[/strikethrough]]~~6|-66 20.5|8.6

70|-66° 147|2 28.6|-66 40.9|9.0

71|-66° 148|2 30.1|-66 56.1|8.3

72|-66° 149|2 30.8|-66 11.2|8.9





73	-66°	150	2 31.5	-66 9.4	8.9
74	-66°	151	2 32.1	-66 20.1	8.9
75	-65°	186	2 31.3	-65 2.5	8.7
76	-65°	187	2 31.5	-65 12.0	9.3
77	-65°	191	2 36.6	-65 52.2	8.7
78	-66°	154	2 36.6	-66 13.8	9.1
79	-66°	155	2 37.5	-66 39.0	7.6
80	-66°	157	2 41.1	-66 57.4	9.0

cards made out

Project PHaEDRA - Annie Jump Cannon 40  
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202

March 14, 1912 (cont)  
B20429 Short disp

[[4 column table]]  
No.|Class|Int.|Remark

---|---|---|---  
82|F8|10|  
83|F5|4|  
84|K0|3|  
85|K|2|  
86|G5|9|  
87|F5|8|  
88|K0|7|  
89|F|4|  
90|K0|5|  
91|A0|6|  
92|F5|6|  
93|K0|6|  
94|G5|8|  
95|K0|6|  
96|K2|2|  
97|F5|3|  
98|F5|6|  
99|G0|4|

[[Note]]Time 4:13 [[/Note]] 100|F8|7

[[Note]]Time 10:42 [[/Note]] 101|F8|3

102|G5|10|  
103|K0|5|  
104|G|2|  
105|G5|1|  
106|K|1|  
107|F5|3|  
108|K|6|E.

203

[[5 Column Table]]

---|---|---|---|---  
82|-6[[/strikethrough]]6[[/strikethrough]]7° 181|2 41.3|-  
6[[/strikethrough]]6[[/strikethrough]]7 14.5|6.6  
83|-67° 184|2 43.2|-67 31.8|8.5  
84|-6[[/strikethrough]]7[[/strikethrough]]6° 160|2 43.8|-  
6[[/strikethrough]]7[[/strikethrough]]6 50.6|9.0  
85|-65° 198|2 46.6|-65 45.4|9.0  
86|-65° 201|2 50.7|-65 58.0|7.6  
87|-65° 203|2 51.7|-65 24.5|7.3  
88|-64° 206|2 52.0|-64 56.6|7.7  
89|-67° 195|2 56.0|-67 21.4|8.6  
90|-67° 198|2 56.6|-67 38.1|8.8  
91|-67° 194|2 55.0|-67 44.9|8.5  
92|-67° 197|2 56.5|-67 52.2|8.6  
93|-67° 201|2 59.2|-67 35.6|8.6  
94|-67° 170|2 35.8|-67 50.4|6.8  
95|-67° 173|2 37.4|-67 29.5|8.2

202		203	
March 14, 1912 (cont)		March 14, 1912 (cont)	
B20429 Short disp		B20429 Short disp	
No.	Class	No.	Class
82	F8	100	F8
83	F5	101	F8
84	K0	102	G5
85	K	103	K0
86	G5	104	G
87	F5	105	G5
88	K0	106	K
89	F	107	F5
90	K0	108	K
91	A0		
92	F5		
93	K0		
94	G5		
95	K0		
96	K2		
97	F5		
98	F5		
99	G0		
100	F8		
101	F8		
102	G5		
103	K0		
104	G		
105	G5		
106	K		
107	F5		
108	K		

96	-67°	175	2 38.2	-67 38.3	9.4
97	-67°	178	2 38.8	-67 53.7	8.9
98	-67°	182	2 41.7	-67 48.8	8.3
99	-67°	185	2 43.9	-67 53.6	8.6
100	-67°	188	2 45.1	-67 47.9	7.6
101	-67°	189	2 46.5	-67 48.5	9.6
102	-68°	172	2 49.1	-68 2.1	7.1
103	-67°	192	2 50.6	-67 49.1	8.6
104	-66°	161	2 52.3	-66 50.9	9.0
105	-66°	163	2 53.3	-66 50.5	9.5
106	-67°	193	2 54.1	-67 13.0	9.4
107	-66°	165	2 56.4	-66 34.7	8.7
108	-66°	168	<del>2</del> 3 1.3	-66 54.3	8.6

[[right margin]] Cards made out [[/right margin]]

Project PHaEDRA - Annie Jump Cannon 40  
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204

March 15, 1912

B20429 short disp.

[4 column table]

No.	Class	Int.	Remark
109	A2	6	epsilon
110	A	10	Burned out
111	K0	3	
112	G	10+	Burned out
113	K	2	Partly superposed on 114
114	F2	5	
115	G5	6	
116	F5	5	
117	K0	3	
118	G0	3	
119	K0	7	
120	K0	2	
121	K0	2	
122	G5	2	
123	G0	3	
124	F5	4	
125	G5	4	
126	K0	3	
127	G	2	
128	F5	4	
129	F5	2	
130	K5	10	Maybe Ma
131	K	10	
132	Ma	6	
133	G0	7	
134	A2	9	
135	G0	3	

Cards made out

[5 column table]

109	-68° 95	48.6	-68 44.7	8.4
110	-68° 96	49.4	-68 33.6	6.6
111	-68° 97	49.9	-68 48.2	9.5
112	-68° 101	51.8	-68 15.8	6.2
113	-68 102	52.2	-68 31.4	9.8
114	-68° 103	52.5	-68 28.4	8.8
115	-68° 106	55.2	-68 11.7	8.9
116	-67° 131	54.9	-68 52.6	9.0
117	-67° 136	58.0	-68 48.4	9.5
118	-68° 109	57.8	-68 17.3	9.5
119	-68° 113	2 2.3	-68 53.9	8.7
120	-69° 95	2 1.9	-69 10.0	9.5
121	Approx. 1875	2 0.2	-67 12	
122	-67° 137	2 2.9	-67 30.8	10.1
123	-67° 140	2 6.0	-67 49.2	9.6
124	-67° 142	2 8.7	-67 23.1	9.0
125	-67° 144	2 11.2	-67 22.5	8.9
126	-67° 143	2 11.1	-67 1.1	9.2
127	-67° 141	2 8.6	-67 3.4	9.3
128	-67° 145	2 12.1	-67 50.6	8.9
129	-67° 146	2 12.1	-67 58.3	9.5
130	-68° 126	2 11.6	-68 25.0	6.8
131	-68° 128	2 12.9	-68 19.0	7.0
132	-68° 132	2 15.7	-68 21.7	8.4

133	-68° 133	2 17.0	-68 15.8	8.0
134	-68° 134	2 17.4	-68 39.5	6.7
135	-68° 135	2 18.5	-68 41.5	9.0

Project PHaEDRA - Annie Jump Cannon 40  
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206  
March 15, 1912

B20429 short disp.

[[4 Column Table]]

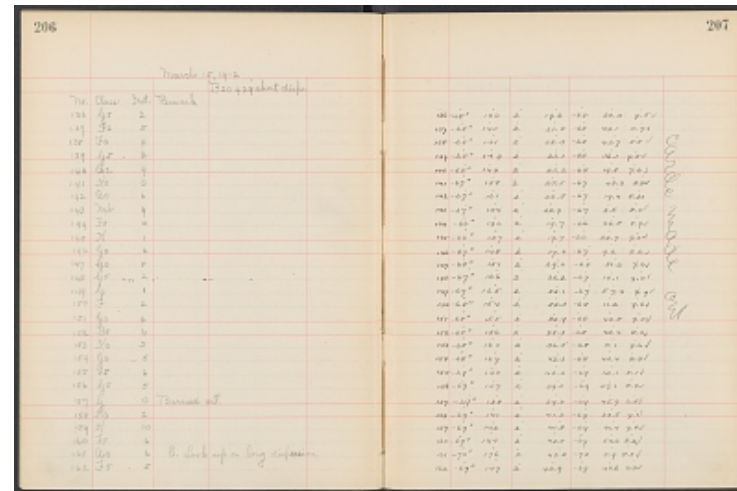
No. | Class | Int. | Remark

136	G5	2	
137	F2	5	
138	F0	4	
139	G5	2	
140	A2	9	
141	K0	3	
142	A0	6	
143	Mb	9	
144	F8	2	
145	K1	1	
146	G0	2	
147	G0	8	
148	G5	2	
149	G1	1	
150	F1	2	
151	G0	2	
152	B8	6	
153	K0	3	
154	G0	5	
155	F5	6	
156	G5	5	
157	G1	10	Burned out
158	K0	2	
159	K1	10	
160	F5	6	
161	A0	6	E. Look up on long dispersion
162	F5	5	

207  
Cards Made Out

[[5 column table]]

136	-68°	136	2 19.6	-68 20.3	9.5
137	-68°	140	2 21.8	-68 43.1	8.7
138	-68°	141	2 22.3	-68 42.7	8.8
139	-68°	143	2 23.1	-68 36.1	9.5
140	-68°	144	2 23.2	-68 19.8	7.6
141	-67°	158	2 25.5	-67 43.3	8.8
142	-67°	161	2 26.5	-67 19.4	8.2
143	-67°	154	2 22.9	-67 3.5	8.0
144	-66°	136	2 19.7	-66 46.8	8.9
145	-66°	137	2 19.7	-66 32.7	9.0
146	-67°	148	2 17.0	-67 9.2	9.2
147	-68°	151	2 29.0	-68 31.2	7.6
148	-67°	166	2 32.2	-67 10.1	9.0
149	-67°	165	2 32.1	-67 57.4	9.9



150	-68°	154	2 32.3	-68 11.2	9.6
151	-68°	155	2 32.9	-68 40.8	9.5
152	-68°	156	2 33.3	-68 42.4	8.0
153	-68°	160	2 36.5	-68 5.1	9.6
154	-68°	167	2 42.3	-68 40.4	8.3
155	-69°	140	2 40.0	-69 13.1	8.1
156	-69°	137	2 39.0	-69 37.1	8.4
157	-69°	138	2 39.0	-69 45.9	6.8
158	-69°	141	2 41.3	-69 33.5	9.1
159	-69°	142	2 41.8	-69 41.4	7.4
160	-69°	144	2 42.0	-69 54.6	8.2
161	-70°	176	2 42.2	-70 5.9	8.3
162	-69°	147	2 43.9	-69 42.6	8.3

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[[Left Page]]

[[4 column table]]

No. | Class | Int. | Remark

163 | M0 | 4 |  
164 | a2 | 4 |  
165 | a2 | 5 |  
166 | M0 | 3 |  
167 | y5 | 9 |  
168 | k0 | 6 |  
169 | y5 | 3 |  
170 | f5 | 7 |  
171 | y5 | 3 |  
172 | k0 | 2 |  
173 | a | 6 |  
174 | y5 | 3 |  
175 | f2 | 5 |  
176 | f8 | 3 |  
177 | f8 | 3 |  
178 | f0 | 2 |  
179 | y5 | 2 |  
180 | k | 1 |  
181 | y | 2 |  
182 | y0 | 5 |  
183 | k2 | 3 |  
184 | f5 | 6 |  
185 | y0 | 2 |  
186 | y5 | 3 |  
187 | 75 | 8 |  
188 | k0 | 4 |  
189 | y0 | 7 |

[[Right Page]]  
209

[[4 Column Table]]

163|-69^0 149| 2 44.6|-69 24.8 8.9|  
164|-69^0 150| 2 45.3|-69 36.3 9.0|  
165|-69^0 152| 2 47.0|-69 31.3 9.0|  
166|-70^0 182| 2 48.5|-70 19.6 9.6|  
167|-69^0 87| 1 52.9|-69 0.4 7.6|  
168|-70^0 100| 1 51.3|-70 7.9 8.6|  
169|-70^0 106| 1 55.9|-70 2.4 9.0|  
170|-70^0 107| 1 55.9|-70 9.6 8.2|  
171|-69^0 91| 1 58.2|-69 55.0 9.2|  
172|-69^0 ~~111~~|-70^0 111| 1 57.2|  
-69 ~~111~~|-70 25.0 9.8|  
173|-70^0 119| 1 59.3|-70 16.8 8.8|  
174|-70^0 124| 2 3.5|-70 18.9 9.2|



175|-70^0 125| 2 4.0| -70 37.0 8.8|  
 176|-69^0 99| 2 6.0| -69 34.2 9.2|  
 177|-69^0 101| 2 7.7| -69 22.0 9.0|  
 178|-69^0 97| 2 4.1| -69 27.3 9.6|  
 179|-68^0 117| 2 7.9| -68 52.2 10.1|  
 180|-69^0 103| 2 11.2| -69 17.3 10.4|  
 181|-69^0 104| 2 11.8| -69 5.7 9.8|  
 182|-69^0 108| 2 13.9| -69 20.4 8.8|  
 183|-68^0 130| 2 14.1| -68 58.3 9.6|  
 184|-68^0 131| 2 14.6| -68 46.2 8.8|  
 185|-69^0 107| 2 13.7| -69 37.6 9.2|  
 186|-70^0 132| 2 12.1| -70 4.2 8.9|  
 187|-70^0 136| 2 13.6| -70 0.9 7.8|  
 188|-70^0 138| 2 14.5| -70 3.2 8.8|  
 189|-70^0 140| 2 16.9 ~~16.9~~  
 -70 27.6 8.4|

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199 | G5 | 7 | H delta is as strong as in class G  
 200 | G5 | 5 |  
 201 | G5 | 3 |  
 202 | M1 | 8 |  
 203 | K0 | 4 |  
 204 | F | 10 | E.  
 205 | A | 8 | E.  
 206 | A5 | 7 | E.  
 207 | K0 | 6 |  
 208 | A3 | 7 |  
 209 | Ma | 8 |  
 210 | K | 10 |  
 211 | Mb | 4 |  
 212 | A3 | 7 |  
 [[scratched out]] 213 [[/scratched out]]  
 Time 23 hrs. 30 mins.  
 213 | K0 | 5 |  
 213 | G5 | 5 |

211  
Cards Made Out  
[[5 column table]]

190	-70°	142	2 17.9	-70 0.3	8.8
191	-70°	144	2 19.3	-70 19.7	8.9
192	-70°	147	2 21.1	-70 2.4	8.9
193	-69°	115	2 21.4	-69 36.0	9.6
194	-69°	121	2 24.2	-69 11.7	8.2
195	-69°	122	2 24.7	-69 24.0	9.0
196	-69°	124	2 26.0	-69 36.3	8.9
197	-69°	127	2 27.8	-69 9.7	8.6
198	-69°	130	2 31.7	-69 44.8	9.0
199	-70°	163	2 30.6	-70 9.3	8.2
200	-70°	165	2 31.4	-70 17.5	8.7
201	-70°	170	2 36.4	-70 39.4	9.4
202	-70°	155	2 25.9	-70 5.1	8.0
203	-70°	154	2 25.3	-70 27.9	9.2
204	-70°	151	2 23.7	-70 39.8	7.6
205	-7	<del>[[striketrough]]</del>	0	<del>[[/striketrough]]</del>	1° 122   2 17.1   -71 15.1   8.1

210

211

Boschee, 1919

Boschee, 1919

No.	Sex	Age	Remarks
104	♂	8	
105	♂	4	
106	♂	4	
107	♂	4	
108	♂	7	
109	♂	7	
110	♂	4	
111	♂	4	
112	♂	4	
113	♂	4	
114	♂	4	
115	♂	4	
116	♂	4	
117	♂	4	
118	♂	4	
119	♂	4	
120	♂	4	
121	♂	4	
122	♂	4	
123	♂	4	
124	♂	4	
125	♂	4	
126	♂	4	
127	♂	4	
128	♂	4	
129	♂	4	
130	♂	4	
131	♂	4	
132	♂	4	
133	♂	4	
134	♂	4	
135	♂	4	
136	♂	4	
137	♂	4	
138	♂	4	
139	♂	4	
140	♂	4	
141	♂	4	
142	♂	4	
143	♂	4	
144	♂	4	
145	♂	4	
146	♂	4	
147	♂	4	
148	♂	4	
149	♂	4	
150	♂	4	
151	♂	4	
152	♂	4	
153	♂	4	
154	♂	4	
155	♂	4	
156	♂	4	
157	♂	4	
158	♂	4	
159	♂	4	
160	♂	4	
161	♂	4	
162	♂	4	
163	♂	4	
164	♂	4	
165	♂	4	
166	♂	4	
167	♂	4	
168	♂	4	
169	♂	4	
170	♂	4	
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204	♂	4	
205	♂	4	
206	♂	4	
207	♂	4	
208	♂	4	
209	♂	4	
210	♂	4	

Boschee, 1919

Boschee, 1919

Boschee, 1919

194	♂	4	
195	♂	4	
196	♂	4	
197	♂	4	
198	♂	4	
199	♂	4	
200	♂	4	
201	♂	4	
202	♂	4	
203	♂	4	
204	♂	4	
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289	♂	4	
290	♂	4	
291	♂	4	
292	♂	4	
293	♂	4	
294	♂	4	
295	♂	4	
296	♂	4	
297	♂	4	
298	♂	4	
299	♂	4	
300	♂	4	

Boschee, 1919

Boschee, 1919

Boschee, 1919

Boschee, 1919

206	-70° 137	2 14.4	-70 53.6	8.2
207	-71° 135	2 28.1	-71 9.8	8.4
208	-71° 138	2 28.6	-71 28.1	8.2
209	-71° 144	2 32.5	-71 18.8	8.4
210	-71° 154	2 37.6	-71 12.9	7.6
211	-71° 159	2 41.8	-71 44.0	8.2
212	-70° 181	2 48.0	-70 44.1	7.7
213	-70° 164	2 30.9	-70 39.9	8.8
214	-70° 173	2 39.0	-70 27.2	8.5

Identified by J.C.M. April 13, 1912. Checked by A.M.C. April 18, 1912

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