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## **Project PHaEDRA - Annie Jump Cannon 32**

Extracted on Aug-30-2022 03:45:05

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2

Nov. 9, 1911

Time 2:12

I 37320

[[4 column table]]

No. | Class | Int. | Remark

1	A	63	near edge
2	A2	63	
3	A2	42	near edge
4	A	42	
5	A	42	Focus poor
6	G5	42	
7	K	42	
8	A	42	
9	A	21	
10	B9	63	
11	K0	63	
12	Neb	63	No bright lines
13	A	21	
14	F5	42	
15	A0	63	
16	A0	63	
17	F0	42	
18	F5	42	
19	A	42	
20	F	63	
21	G5	42	
22	A5?	84	Maybe Comp. Confirm
23	F	21	
24	B5	63	Probably a cluster
25	A3	63	
26	F2	84	
27	F5	42	

3

CARDS MADE OUT

[[6 column table]]

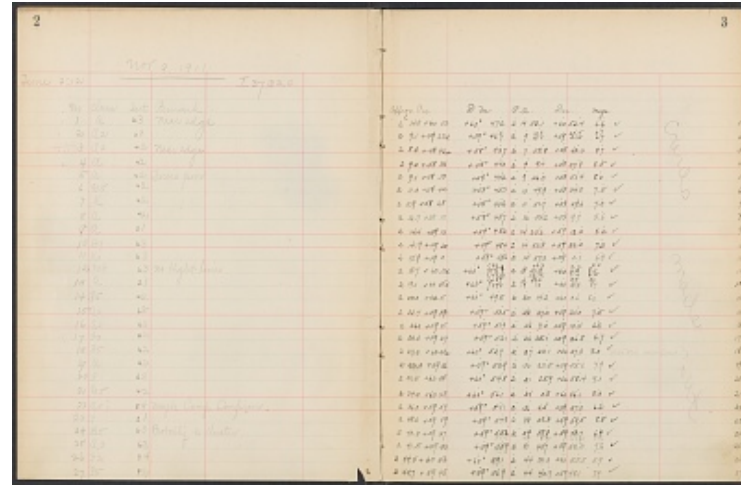
Approx Pos. | DM | R.A. | Dec. | magn. |  
 2<sup>h</sup> 14.8<sup>m</sup> +60° 53' | +60° 47' 2" | 2 14 52.1 | +60 52.4 | 6.6 | 1

2 9.1 +59 22d | +59° 46' 7" | 2 9 15.4 | +59 21.5 | 20.5 | 4  
 6.7 | 6.7 | 2

2 8.0 +5842s | +58° 437' | 2 7 58.8 | +58 42.0 | 8.7 | 3

2 9.0 +58 36 | +58° 440' | 2 9 9.4 | +58 37.8 | 8.5 | 4

2 9.1 +58 50 | +58° 442' | 2 9 26.3 | +58 51.4 | 8.0 | 5



2 11.0 +58 32 | +58° 450 | 2 10 49.9 | +58 34.8 | 7.5 | 6  
 2 11.9 +58 28 | +58° 456 | 2 11 51.7 | +58 29.6 | 7.3 | 7  
 2 12.7 +58 10 | +58° 457 | 2 12 54.2 | +58 9.7 | 8.6 | 8  
 2 14.4 +59 13 | +59° 482 | 2 14 25.2 | +59 12.2 | 8.2 | 9  
 2 14.9 +59 20 | +59° 484 | 2 14 50.8 | +59 20.3 | 7.2 | 10  
 2 15.9 +59 0 | +59° 486 | 2 15 57.3 | +59 0.1 | 6.9 | 11  
 2 18.7 +60.0d | +60° {486 487 488 | 2 18 {46.9 51.9 56.2 | +60 {0.2 0.3  
 1.0 | {9.4 8.1 8.5 | 12  
 2 19.1 +60 15d | +60° {489 490 | 2 {18 57.0 19 1.0 | +60 17.9 18.4 | 9.0  
 8.7 | 13  
 2 20.3 +60 5 | +60° 495 2 20 14.2 | +60 3.6 | 8.0 | 14  
 2 22.4 +59 19 | +59° 505 | 2 22 27.3 | +59 21.0 | 7.5 | 15  
 2 26.1 +59 15 | +59° 519 | 2 26 7.0 | +59 13.4 | 6.8 | 16  
 2 26.6 +59 27 | +59° 521 | 2 26 35.1 | +59 26.8 | 6.7 | 17  
 2 27.3 +60 30s | +60° 527 | 2 27 23.1 | +60 27.8 | 8.0 | 18  
 2 30.3 +59 56 | +59° 529 | 2 30 23.5 | +59 55.6 | 7.9 | 19  
 2 31.5 +60 58 | +60° 548 | 2 31 25.9 | +60 58.4 | 7.1 | 20  
 2 34.0 +60 48 | +60° 561 | 2 34 0.8 | +60 46.1 | 8.0 | 21  
 2 36.0 +59 57 | +59° 541 | 2 36 4.5 | +59 57.0 | 6.2 | 22  
 2 38.6 +59 59 | +59° 548 | 2 38 38.3 | +59 59.5 | 8.5 | 23  
 2 40.0 +59 47 | +59° 552 | 2 39 59.9 | +59 48.7 | 6.9 | 24  
 2 41.5 +59 50 | +59° 559^[[563 | 2 41^[[40]] 45.7^[[8.7]] | +59 52.3^[[47.0  
 | 7.6^[[8.6 | 25  
 2 44.5 +60 56 | +60° 591 | 2 44 30.0 | +60 55.5 | 5.9 | 26  
 2 44.7 +59 48 | +59° 569 | 2 44 40.7 | +59 48.1 | 7.9 | 27

4

Nov. 8, 1911 (cont.)

I 37320

[[4 column table]]

No. | Class | Int. | Remark

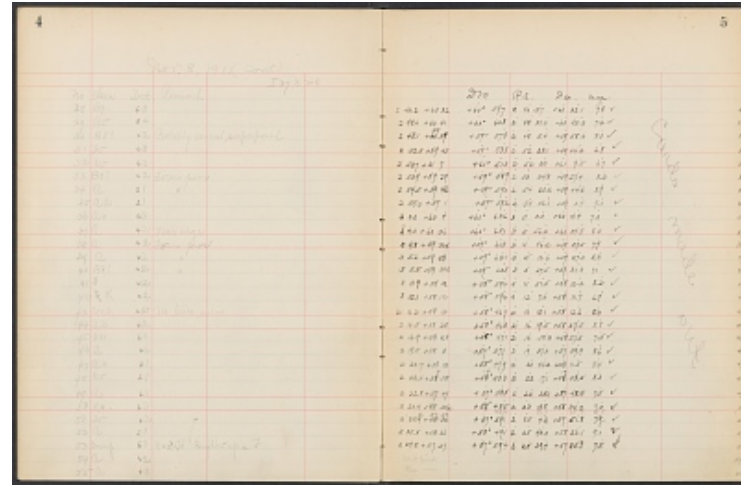
28	B9	63	
29	B5	84	
30	B5?	42	Probably several superposed
31	F5	63	
32	G5	63	
33	B8?	42	focus poor
34	A	21	Focus poor
35	A2	21	
36	A0	63	
37	A	42	near edge
38	A	42	Focus poor
39	A	42	Focus poor
40	B8?	42	Focus poor
41	F	42	
42	[[ <del>cont.</del> ]] F [[ <del>cont.</del> ]] k   42		
43	cont. } 42   No lines seen		
44	A2	42	
45	F2	63	
46	A	42	
47	A3	21	
48	G5	21	
49	A0	63	
50	K0	63	
51	F5	42	
52	A	21	
53	comp	63	K = 0,2,H Brighter sp. = F
54	A	42	
55	A	63	

5

Cards Made Out

[[6 column table]]

	DM	R.A.	Dec.	Magn.			
2	46.2	+60 32	+60° 597	2 46 15.7	+60 32.1	7.8	28
2	48.4	+60 41	+60° 608	2 48 21.0	+60 42.2	7.2	29
2	48.1	<del>60</del>	<del>59 59</del>	+59° 578	2 48 5.4		
	+59 58.6	8.0	30				
2	52.5	+59 45	+59° 588	2 52 28.1	+59 44.2	6.8	31
2	52.7	+61 7	+61° 513	2 52 20	+61 9.5	6.7	32
2	53.9	+59 29	+59° 589	2 53 34.8	+59 27.4	8.2	33
2	54.5	+59 46	+59° 590	2 54 20.2	+59 44.6	8.9	34
2	55.0	+59 1	+59° 592	2 54 56.1	+59 0.4	9.0	35
3	0.0	+60 4	+60° 636	3 0 0.0	+60 4.4	7.0	36
[[ <del>cont.</del> ]]	2	<del>[[<del>cont.</del>]]</del>		3 4.0	+60 36	+60° 651	3 3 56.2



+60 34.8 | 8.0 | 37  
 3 4.8 +59 30d | +59° 618 | 3 4 46.2 | +59 29.5 | 7.9 | 38  
 3 5.2 +59 28 | +59° 621 | 3 5 10.6 | +59 27.0 | 8.3 | 39  
 3 5.5 +59 30d | +59° 625 | 3 5 27.5 | +59 31.3 | 7.1 | 40  
 3 11.9 +58 12 | +58° 594 | 3 11 51.5 | +58 12.2 | 8.2 | 41  
 3 12.1 +58 12 | +58° 596 | 3 12 7.0 | +58 11.7 | 6.9 | 42  
 2 16.2b +58 13 | +58° 467 | 2 16 18.1 | +58 12.6 | 8.0 | 43  
 2 16.5 +58 28 | +58° 468 | 2 16 19.5 | +58 27.5 | 8.8 | 44  
 2 16.9 +58 28 | +58° 471 | 2 16 50.3 | +58 27.5 | 7.5 | 45  
 2 19.5 +58 0 | +57° 577 | 2 19 37.0 | +57 59.9 | 8.6 | 46  
 2 20.7 +58 13 | +58° 479 | 2 20 44.2 | +58 11.5 | 8.4 | 47  
 2 22.4 +5 ~~[[strikethrough]] 8~~ ~~[[/strikethrough]] 7 58~~ | +5 ~~[[strikethrough]] 8~~  
~~[[/strikethrough]] 7° 583~~ | 2 22 17.1 | +5 ~~[[strikethrough]] 8~~  
~~[[/strikethrough]] 7 58.5~~ | 8.3 | 48  
 2 22.8 +57 49 | +57° 585 | 2 22 35.1 | +57 48.5 | 7.5 | 49  
 2 23.4 +58 35r | +58° 485 | 2 23 18.8 | +58 34.2 | 7.0 | 50  
 2 25. ~~[[strikethrough]] 5~~ +58 26 ~~[[/strikethrough]] 0~~ +57 53 | +57°  
 591<sup>[[486]]</sup> | 2 25 4.2<sup>[[21.0]]</sup> | +57 51.8<sup>[[31.7]]</sup> | 7.9<sup>[[8.8]]</sup> | 51  
 2 25.5 +58 26 | +58° 491 | 2 25 43.0 | +58 26.1 | 9.0 | 52  
 2 24.8 +57 27 | +57° 594 | 2 25 39.4 | +57 25.8 | 7.5 | 53  
 Can't find these nos. | | | | 54  
 Can't find these nos. | | | | 55

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Nov. 8, 1911 (cont.)  
I 37320

[[4 column table]]

No.	Class	Int.	Remark
56	A   42		
57	G5   42		
58	G   42		
59	A   42		
60	F5   63		
61	A   42		
62	B8?   42		Focus very poor
63	F0   42		
64	A0   63		
65	A   42		
66	A   42		
67	G0   42		
68	A   42		
69	G5   42		
70	Omit	42	Two superposed. Too poor
71	Omit		Two superposed. Too poor
72	A   42		
73	F5   21		
74	F5   21		
75	A0   84		Line near H delta strong as in alpha Cygni
76	A   42		
77	G5   42		
78	A3   42		
79	A   42		
80	B8?   42		
81	B8?   42		
82	A0   63		

7

Cards Made Out  
[[6 column table]]

2 26.1 +57 30	+57° 600	2 26 12.2 +57 29.0	8.7	56
2 28.4 +58 13	+58° 497	2 28 30.4 +58 12.3	7.8	57
2 29.0 +57 54	+57° 605	2 29 7.3 +57 52.2	8.0	58
2 29.3 +58 2	+58° 50.2	2 29 25.3 +58 1.5	9.0	59
2 31.0 +58 22	+58° 50	<del>2 30 51.5</del>		
+58 20.7	7.0	60		
2 30.3 +59 10	+59° 530	2 30 28.1	+59 5.7	8.2   61
2 33.0 +59 15	+59° 535	2 32 58.1	+59 12.0	7.3   62
2 32.7 +58 37	+58° 510	2 32 47.0	+58 36.9	8.5   63
2 32.3 +58 19	+58° 508	2 32 22.0	+58 13.8	7.5   64
2 31.8 +57 57	+57° 615	2 31 46.8	+57 57.5	8.5   65
2 32.6 +57 50	+57° 619	2 32 41.6	+57 49.6	8.0   66
2 32.2 +57 35	+57° 616	2 32 16.2	+57 34.7	8.0   67

2 31.0	+57 34	+57° 613	2 30 48.3	+57 34.7	9.0	68
2 33.7	+57 12	+57° 623	2 33 41.2	+57 10.8	8.0	69
					70	
					71	
2 38.0	+57 12	+57° 638	2 37 56.7	+57 11.5	8.2	72
2 38.2	+57 25	+57° 640	2 38 13.3	+57 25.4	7.8	73
2 38.8	+57 18	+57° 643	2 38 44.0	+57 17.0	8.0	74
2 40.8	+57 43	+57° 651	2 40 55.1	+57 41.5	6.2	75
2 42.2	+58 11	+58° 525	2 42 15.3	+58 9.2	8.0	76
2 37.7	+58 14	+58° 521	2 37 33.0	+58 12.8	7.2	77
2 <del>[[strikethrough]]</del>	45.3 <del>[[/strikethrough]]</del>	44.0	+59 15	+59° 567	2	44
4.5	+59 13.2	7.9	78			
2 45.3	+56 36	+58° 532	2 45 26.3	+58 33.5	8.2	79
2 46.0	+58 30d	+58° 534 <sup>[[3]]</sup>	2 45 49.5 <sup>[[45.8]]</sup>	+58 29.8 <sup>[[3]]</sup>		
8.9 <sup>[[8.9]]</sup>	80					
2 47.9	+59 17	+59° 576	2 47 51.0	+59 14.3	9.0	81
2 48.3	+59 1	+58° 540	2 48 15.4	+58 59.9	7.2	82

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Nov. 8, 1911 (cont.)

I 37320

[[4 column table]]

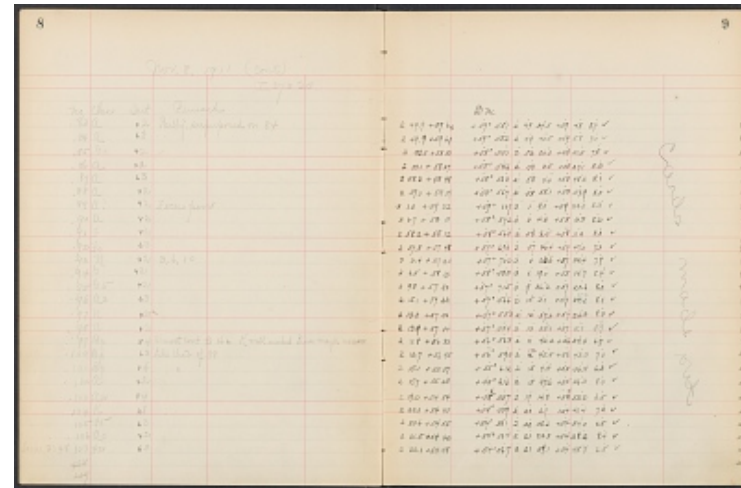
No.	Class	Int.	Remark
83	A	42	Partly superposed on 84
84	A	63	
85	G	42	
86	A	42	
87	A	63	
88	A	42	
89	A?	42	Focus poor
90	A	42	
91	F	42	
92	F0	63	
93	N	42	3,6,10
94	G	42	
95	G5	42	
96	A3	63	
97	K	42	
98	A	42	
99	Bp	84	Almost cont. to H epsilon. K well marked. Lines maybe narrow
100	Bp	63	Like that of 99
101	Bp	84	Like that of 99
102	A	42	
103	A2	84	
104	K	21	
105	F5	63	
106	A0	42	
107	F2	63	
Time 2:48			
[[/strickethrough]] 108			
109     [[/strickethrough]]			

9

Cards made Out

[[6 column table]]

DM					
2 49.9	+59 6p	+59° 581	2 49 34.5	+59 4.8	8.7   83
2 49.9	+59 6f	+59° 582	2 49 40.5	+59 5.8	7.0   84
2 52.5	+58 50	+58° 551	2 52 26.0	+58 51.5	7.8   85
2 50.1	+58 27	+58° 546	2 50 3.5	+58 27.1	8.2   86
2 58.2	+58 48	+58° 56.3	2 58 4.0	+58 48.6	8.1   87
2 59.0	+58 59	+58° 567	2 58 58.1	+58 57.9	8.0   88
3 1.0	+59 22	+59° 607	3 1 9.0	+59 22.0	8.3   89
3 0.7	+58 10	+58° 572	3 0 41.6	+58 10.8	8.2   90
2 58.2	+58 12	+58° 564	2 58 8.5	+58 11.3	8.0   91
2 57.8	+57 48	+57° 696	2 57 40.4	+57 47.0	7.3   92
3 0.4	+57 20	+57° 702	3 0 20.6	+57 20.4	7.9   93
3 6.5	+58 13	+58° 583	3 6 19.0	+58 14.7	8.4   94
3 9.8	+57 20	+57° 715	3 9 36.2	+57 20.6	8.0   95





2 15.1 +57 33 | +57° 566 | 2 15 3.1 | +57 3 ~~[[strikethrough]]~~ 4.1  
~~[[/strikethrough]]~~ 1.4 | 8.1 | 96  
 2 13.0 +57 30 | +57° 553 | 2 12 57.0 | +57 26.3 | 8.0 | 97  
 2 13.9 +57 14 | +57° 554 | 2 13 35.1 | +57 11.1 | 8.7 | 98  
 2 11.8 +56 33 | +56° 568 | 2 11 42.2 | +56 34.4 | 6.7 | 99  
 2 12.7 +56 45 | +56° 593 | 2 ~~[[strikethrough]]~~ 11 ~~[[/strikethrough]]~~ 12 45.5  
 | +56 43.3 | 7.0 | 100  
 1 15.1 +55 57 | +55° 612 | 2 15 4.4 | +55 56.4 | 6.3 | 101  
 2 15.7 +55 28 | +55° 616 | 2 15 47.6 | +55 26.3 | 8.0 | 102  
 2 19.2 | +54 54 | +5 ~~[[strikethrough]]~~ 5 ~~[[/strikethrough]]~~ 4 557 | 2 19 14.8  
 | +5 ~~[[strikethrough]]~~ 5 ~~[[/strikethrough]]~~ 4 53.2 | 6.5 | 103  
 2 20.0 +54 45 | +54° 559 | 2 20 2.7 | +54 41.4 | 7.3 | 104  
 2 20.6 +54 55 | +54° 561 | 2 20 38.2 | +54 54.0 | 6.5 | 105  
 2 21.5 +54 42 | +54° 564 | 2 21 23.3 } +54 38.2 | 8.4 | 106  
 2 22.1 +54 48 | +54° 567 | 2 21 59.1 | +54 48.8 | 6.5 | 107

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Nov. 10, 1911

I 37320 (Cont)  
Time 11:30

[[4 column table]]

No.	Class	Int.	Remark
108	B	42	Maybe Oe5
109	A	42	
110	A2	63	
111	A	42	
112	B8	63	
113	G5	84	
114	A2	105	
115	A3	42	<del>5</del>
116	A2	63	
117	A2	63	
118	K5	63	
119	B3	63	
120	A2	63	
121	A	42	
122	B8?	42	
123	G5	63	
124	A2	84	Lines narrow
125	Ma	42	
126	G0	63	
127	K0	105	
128	K0	63	
129	A	21	
130	A5	42	
131	F	21	
132	A	21	
133	K5	42	
134	A	21	

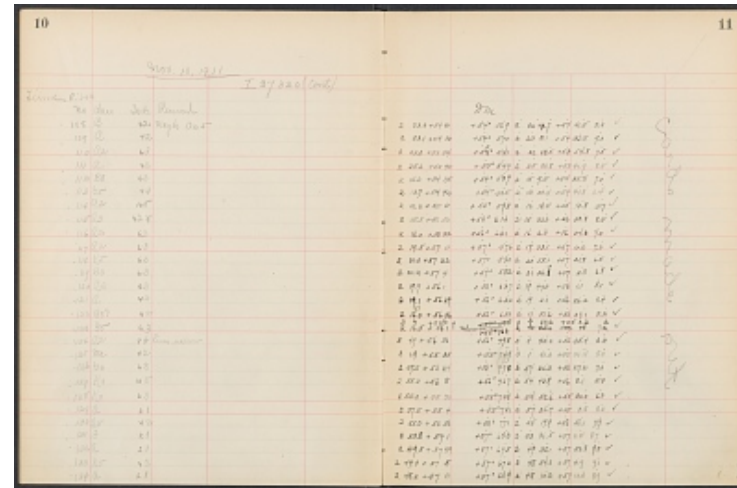
[[/table]]

11

Cards Made Out

[[5 column table]]

	DM			
2 23.0 +54 41	+54° 569	2 22 42.7	+54 41.5	8.0
2 23.1 +54 30	+54° 570	2 22 2.1	+54 32.5	9.0
2 23.0 +53 54	+53° 541	2 22 48.5	+53 54.8	7.5
2 25.2 +53 54	+53° 547	2 25 26.8	+53 41.7	8.5
2 15.2 +54 35	+54° 539	2 15 9.5	+54 35.8	7.0
2 13.9 +54 42	+54° 535	2 13 50.4	+54 41.8	6.4
2 12.2 +55 11	+55° 598	2 12 18.5	+55 10.8	5.7
2 15.5 +56 50	+56° 616	2 15 33.0	+56 50.8	8.5
2 16.0 +56 32	+56° 621	2 16 2.3	+56 34.6	7.0
2 19.5 +57 11	+57° 576	2 19 33.1	+57 10.2	7.0
2 21.0 +57 22	+57° 580	2 20 58.1	+57 21.8	6.5
2 21.2 +57 4	+57° 582	2 21 26.	<del>8</del>	<del>9</del>
+57 2.8				6.8



2 19.7 +56 1 | +56° 637 | 2 19 47.3 | +56 1.1 | 8.1  
 2 19.1 +56 29 | +56° 632 | 2 19 2.1 | +56 26.2 | 8.4  
 2 16^[[8?]] 0 +56 36 | +56° 630 | 2 17 51.2 | +56 37.1 | 8.2  
 2 16.5 +57 1^[[3 9 +55.0]] ? | ~~[[strikethrough]]~~ +57° 568 2 16 25.1 | +57  
 1.8 | 7.0 ~~[[/strikethrough]]~~ +55° 766 | 3 9 27.2 | +55 0.2 | 7.2  
 3 4.7 +56 36 | +56° 798 | 3 4 45.0 | +56 35.4 | 6.0  
 3 1.9 +55 35 | +55° 749 | 3 1 41.0 | +55 36.4 | 8.0  
 2 57.5 +56 24 | +56° 778 | 2 57 26.3 | +56 27.2 | 7.0  
 2 55.0 +56 8 | +56° 767 | 2 54 42.9 | +56 8.1 | 5.0  
 2 55.0 +55 30 | +55° 738 | 2 54 52.6 | +55 30.0 | 6.3  
 2 57.5 +55 4 | +55° 741 | 2 57 26.7 | +55 30.0 | 8.0  
 2 55.3 +56 56 | +56° 771 | 2 55 19.9 | +56 56.1 | 7.7  
 2 53.8 +57 1 | +57° 683 | 2 53 36.5 | +57 0.5 | 8.7  
 2 49.5 +57 49 | +57° 675 | 2 49 35.1 | +57 50.8 | 9.0  
 2 49.0 +57 5 | +57° 672 | 2 48 54.6 | +57 4.7 | 7.1  
 2 48.2 | +57 11 | +57° 669 | 2 48 13.2 | +57 10.6 | 8.9

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[[preprinted]] 12 [[/preprinted]]

Nov. 10, 1911 (cont.)

I 37320

[[4 column table]]

No	Class	Int.	Remark
135	G   21		
136	A2   42		
137	O   21	1	bright band seen probably 4633
138	Comp?	84	K line seems too ft. Confirm
139	K O   63		
140	A   42		
141	A0   63		
142	A   42		
143	A   21		
144	A3   42		
145	Cont.	21	H beta bright?
146	A0   42		
147	A   21		
148	O   42	1	Bright Band seen
149	A0   42		
150	K0   63		
151	A   42		
152	G   21		
153	G   21		
154	A   42		
155	A   21		
156	B   42		Division uncertain
157	F5   42		
158	A12   42		
159	Ka0   63	<del>[[/strickethrough]]</del> 2 <del>[[/strickethrough]]</del>	
160	K0   42		
161	A2   42		

13

Cards Made Out

[[5 column table]]

2 45.3	+57 20	+56° 665	2 45 29.3	+57 20.4	8.0
2 42.0	+56 42	+56° 732	2 41 48.2	+56 39.2	8.0
2 41.0	+56 27	+56° <del>[[/strickethrough]]</del> 728	2 41 6.8	+56 26.7	8.5
<del>[[/strickethrough]]</del> 731	2 41 31.1	+56 20.1	9.5		
2 38.9	+56 28	+56° 718	2 38 52.0	+56 28.2	6.5
2 38.6	+56 26	+56° 717	2 38 35.2	+56 25.5	7.6
2 38.8	+55 58	+55° 709	2 38 41.0	+55 57.5	8.3
2 35.0	+55 57	+55° 702	2 34 53.5	+55 56.5	7.7
2 34.5	+56 30	+56° 708	2 34 28.9	+56 30.8	8.2
2 33.8	+56 28a	+56° 702	2 33 36.9	+56 29.1	8.2
2 33.0	+55 51	+55° 696	2 32 57.9	+55 52.5	7.8
2 32.4	+56 18	+56° 693	2 32 19.8	+56 16.5	8.3
2 31.7	+55 57	+55° 692	2 31 45.9	+55 56.5	8.0
2 31.7	+56 47	+56° 690	2 31 31.8	+56 47.6	8.2
2 30.9	+56 9	+56° 686	2 30 42.7	+56 6.5	9.1
2 30.1	+56 14	+56° 682	2 30 5.6	+56 13.2	8.5

2 30.1	+56 44	+56° 683	2 30 7.0	+56 40.6	7.0
2 30.3	+57 11	+57° 610	2 30 25.2	+57 11.2	8.4
2 29.1	+57 4	+57° 606	2 29 14.8	+57 2.9	8.1
2 28.1	+57 12	+57° 602	2 28 4.8	+57 10.6	8.4
2 26.1	+57 6	+57° 59	[[ <del>8</del> ]]	9	2 26 5.8
+57 5.0	8.2				
2 25.8	+57 7	+57° 595	2 25 43.6	+57 5.2	8.7
2 23.1	+56 51d	+56° 656	2 23 6.8	+56 53.2	7.7
2 22.3	+56 51	+56° 652	2 22 25.8	+56 53.1	8.5
2 22.9	+56 37	+56° 654	2 22 52.2	+56 35.4	8.4
2 21.2	+56 51	+56° 644	2 21 25.8	+56 52.9	7.0
2 26.3	+55 33	+55° 665	2 26 20.9	+55 33.5	8.3
2 27.4	+55 22	+55° 674	2 27 23.8	+55 19.7	8.7

Project PHaEDRA - Annie Jump Cannon 32  
 Transcribed and Reviewed by Digital Volunteers  
 Extracted Aug-30-2022 03:45:05

14

Nov. 10, 1911 (Cont)  
I 37320

[[4 column table]]

No	Class	Int.	Remark
162	A5	42	
163	B8?	42	
164	B8?	42	
165	B8	63	
166	F0	42	
167	A5	63	
168	A	84	Near edge
169	B8	84	Near edge
170	B8?	21	
171	B8?	105	Burned out
172	A0	21	
173	B8?	42	
174	A5	63	
175	A0	63	
176	A	21	
177	A	21	
178	A	21	
179	A	42	
180	B8	42	
181	G5	21	
182	A3	42	
183	B8?	42	
184	F5	42	
185	A	42	Line 4077 strong. Pl. 3733U shows this time & 4128-31 strong & that the sp. probably resembles iota Phoen.
186	A	21	
187	A	21	
188	K0	105	
189	A	42	

15

Cards Made Out

[[5 column table]]

	DM			
2	27.0	+55 20	+55° 671	2 26 59.0   +55 18.9   8.4
2	26.2	+55 18	+55° 663	2 26 17.6   +55 17.4   8.6
2	2	<del>[[strikethrough]]</del>	3	<del>[[/strikethrough]]</del> 5.9   +55 18   +55° 660   2 25
55.9		+55 17.5		8.2
2	30.8	+55 40	+55° 68	<del>[[strikethrough]]</del> 7 <del>[[/strikethrough]]</del> 9   2 30 42.0
		+55 38.9		7.5
3	0.5	+52 35	+52° 663	3 0 29.4   +52 35.8   7.0
3	1.3	+51 38	+51° 689	3 1 18.5   +51 37.6   7.3
2	57.7	+51 40	+51° 681	2 57 41.2   +51 38.7   6.8
2	57 <sup>^</sup> <del>[[5?]]</del>	4	+52 9   +52° 656	2 55 25.8   +52 9.1   8.0
2	50.7	+51 47	+51° 665	2 50 33.7   +51 47.4   5.7

2 59.2 +53 37	+53° 624	2 59 19.1	+53 37.5	8.4
2 57.0 +53 32	+53° 615	2 56 53.3	+53 32.5	8.0
2 51.9 +53 48	+53° 606	2 51 52.4	+53 47.0	7.3
2 49.5 +54 35	+54° 629	2 49 28.5	+54 37.0	8.0
2 49.2 +53 46	+53° 601	2 49 14.8	+53 45.1	8.5
2 48.8 +53 48	+53° 599	2 48 41.4	+53 47.3	8.5
2 47.5 +53 50	+53° 595	2 47 21.5	+53 49.1	8.5
2 47.0 +53 48	+53° 594	2 47 1.6	+53 45.7	8.3
2 47.9 +53 12	+53° 596	2 47 48.6	+53 12.7	7.7
2 50.9 +55 48	+55° 736	2 50 39.7	+55 48.6	8.5
2 50.0 +55 45	+55° 733	2 49 39.3	+55 43.9	8.5
2 47.5 +55 18d	+55° 730	2 47 26.0	+55 17.2	8.2
2 46.3 +54 52	+54° 621	2 46 25.5	+54 54.9	7.7
2 46.0 +55 35	+55° 726	2 45 52.5	+55 34.9	8.0
2 45.2 +55 52	+55° 723	2 44 50.3	+55 27.1	8.5
2 44.8 +55 28	+55° 722	2 44 50.3	+55 27.1	8.5
2 40.0 +55 16d	+55° 714	2 40 11.0	+55 17.7	3.5
2 39.5 +54 52	+54° 610	2 39 30.4	+54 53.0	7.5

Project PHaEDRA - Annie Jump Cannon 32  
 Transcribed and Reviewed by Digital Volunteers  
 Extracted Aug-30-2022 03:45:05

16

Nov. 10, 1911 (cont.)  
I 37320

[[4 column table]]

No.	Class	Int.	Remark
190	K0	42	
191	A0	63	
192	G5	42	
193	F5	42	
194	A	42	
195	B8	84	
196	A0	42	
197	F8	105	
198	A	63	
199	A2	42	
200	K2	42	
201	A	42	
202	A	63	
203	F2	63	
204	K0	84	
205	A0	63	
206	A	63	
Time 11.56			

Mch. 7, 1916

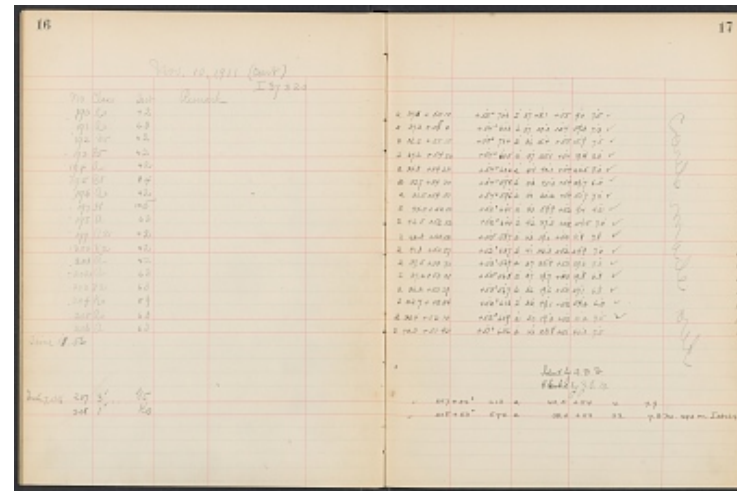
207	G5	3	
208	K0	1	

17

Cards Made Out

[[5 column table]]

2 37.8	+55 10	+55° 706	2 37 48.1	+55 9.0	7.5
2 37.3	+5	<del>[[strikethrough]]</del>	4	<del>[[/strikethrough]]</del> 5 0	+54° 606   2 37 30.0
+54 59.3	7.3				
2 36.2	+55 15	+55° 704	2 36 15.4	+55 15.9	7.5
2 37.2	+54 20	+54° 605	2 37 25.1	+54 19.4	8.3
2 34.8	+54 22	+54° 602	2 34 40.1	+54 20.5	8.0
2 32.7	+54 30	+54° 598	2 32 45.0	+54 29.7	6.0
2 31.5	+54 51	+54° 596	2 31 20.2	+54 51.7	7.3
2 44.0	+52 10	+52° 641	2 43 59.9	+52 9.4	4.2
2 42.5	+52 22	+52° 640	2 42 37.3	+52 24.5	7.0
2 43.3	+53 12	+53° 587	2 43 19.1	+53 11.8	7.8
2 41.8	+52 27	+52° 637	2 41 32.3	+52 24.9	7.0
2 37.5	+53 30	+53° 569	2 37 25.8	+53 29.6	8.3
2 37.2	+53 21	+53° 568	2 37 19.7	+53 19.8	6.8
2 36.2	+53 29	+53° 567	2 36 19.6	+53 27.1	6.8
2 32.7	+52 54	+52° 616	2 32 49.1	+52 54.2	6.0
2 30.4	+52 10	+52° 609	2 30 19.3	+52 10.2	7.5





2 40.3 +51 42 | +51° 636 | 2 40 23.8 | +51 40.0 | 7.5

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

207 | +54° 613 | 2 40.5 | +54 4 | 7.9  
208 | +53° 574 | 2 38.4 | +53 32 | 7.8 No. 493 on I 38164

Project PHaEDRA - Annie Jump Cannon 32  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-30-2022 03:45:05

18

Nov. 16, 1911

~~B 37033~~ ~~I 36956~~

Time 3:02

[[4 column table]]

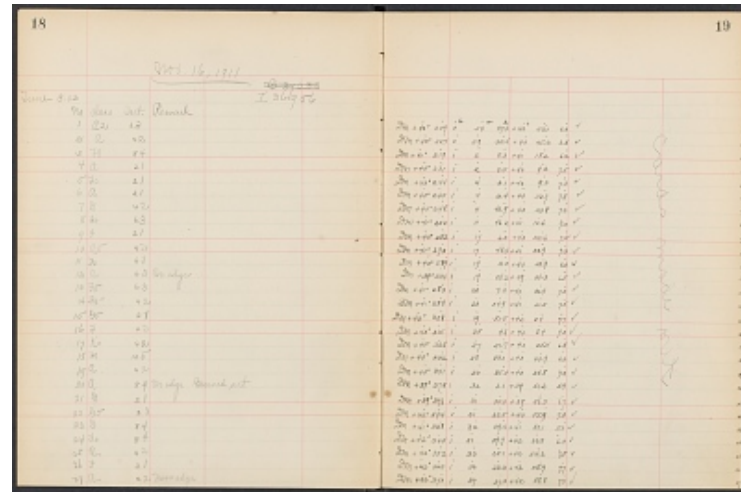
No	Class	Int.	Remark
1	A2   63		
2	A   42		
3	F8   84		
4	A   21		
5	F0   21		
6	A   21		
7	G   42		
8	F0   63		
9	F   21		
10	A5   42		
11	F0   63		
12	A   63		On edge
13	F5   63		
14	F5   42		
15	G5   21		
16	F   42		
17	K0   42		
18	F8   105		
19	A   42		
20	A   84		On edge Burned out
21	G   21		
22	G5   21		
23	G   84		
24	F0   84		
25	A   42		
26	F   21		
27	A   42		Near edge

19

Cards made out

[[5 column table]]

DM +40° 209	0 <sup>h</sup> 54 <sup>m</sup> 47.4 <sup>s</sup>	+40 33.1	6.0	1
DM +40° 224	0 59 35.4	+40 45.2	6.5	2
DM +41° 219	1 2 8.3	+41 18.2	6.2	3
DM +40° 231	1 2 2.5	+40 9.2	7.5	4
DM +40° 244	1 4 3.1	+40 9.0	7.3	5
DM +40° 245	1 4 10.4	+40 32.7	7.8	6
DM +40° 248	1 4 46.9	+40 53.8	7.0	7
DM +40° 252	1 11 46.2	+40 12.6	7.0	8
DM +40° 282	1 17 6.3	+40 35.6	7.5	9
DM +40° 273	1 17 48.4	+40 32.9	7.3	10



DM +40° 289	1 19 3.3	+40 20.9	6.0	11
DM +40° 334	1 19 24.2	+40 34.3	6.5	12
DM +40° 283	1 20 7.2	+40 30.4	7.0	13
DM +40° 288	1 20 54.9	+40 31.5	7.5	14
DM +40° 308	1 19 51.5	+40 2.4	7.7	15
DM +40° 315	1 25 4.6	+40 8.4	7.0	16
DM +40° 328	1 27 21.7	+40 20.5	6.8	17
DM +40° 332	1 28 23.1	+40 40.9	4.0	18
DM +40° 341	1 30 35.0	+40 26.8	7.3	19
DM +40° 378	1 32 3.1	+40 51.2	5.4	20
DM +40° 376	1 31 35.0	+40 56.3	6.7	21
DM +40° 344	1 31 23.5	+40 55.9	7.0	22
DM +40° 328	1 32 59.4	+40 53.1	5.3	23
DM +40° 345	1 31 59.7	+40 33.8	6.0	24
DM +40° 352	1 33 25.1	+40 54.2	7.5	25
DM +40° 362	1 36 22.3	+40 58.7	7.7	26
DM +40° 370	1 37 37.3	+40 58.8	7.5	27

Project PHaEDRA - Annie Jump Cannon 32  
 Transcribed and Reviewed by Digital Volunteers  
 Extracted Aug-30-2022 03:45:05

20

Nov. 16, 1911 (Cont)  
Time 2:45 | 36956

[[4 column table]]

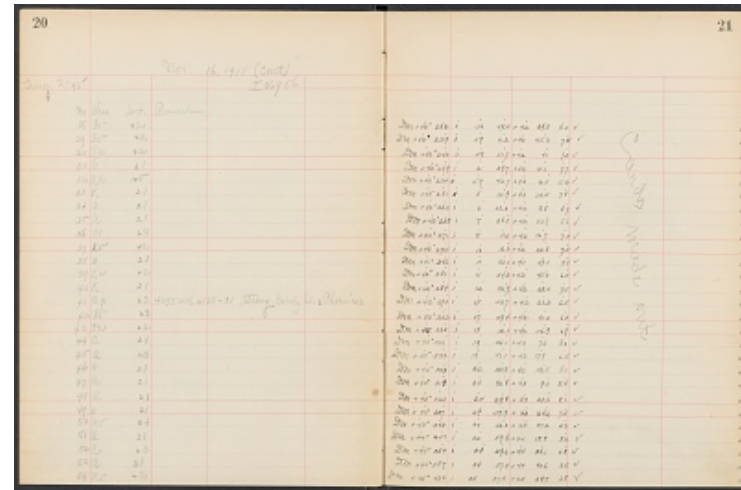
28	F5	42	
29	F5	42	
30	A2	42	
31	G	21	
32	A2	105	
33	K	21	
34	F	21	
35	A	21	
36	F8	63	
37	K5	42	
38	F	21	
39	K2	42	
40	K	21	
41	Ap	63	4077 and 4128-31 strong Probably like iota Phoenicis
42	F5	63	
43	F2	42	
44	A	21	
45	A	63	
46	F	21	
47	A	21	
48	A	21	
49	F	21	
50	G5	84	
51	A	21	
52	K0	63	
53	A	21	
54	K5	42	

21

Cards made out

[[5 column table]]

DM +42° 232	0 56 49.4	+42 29.8	8.0	28
DM +42° 224	0 59 6.2	+42 45.3	7.5	29
DM +42° 219	0 59 51.7	+42 4.1	7.0	30
DM +42° 231	1 2 29.7	+42 10.1	7.7	31
DM +43° 244	0 59 42.7	+43 10.5	5.2	32
DM +43° 245	1 5 12.9	+43 24.5	7.8	33
DM +42° 248	1 6 22.0	+42 8.8	8.7	34
DM +42° 252	1 7 28.0	+42 22.7	8.6	35
DM +42° 282	1 8 11.6	+42 10.7	7.0	36
DM +42° 273	1 10 12.3	+42 32.8	7.5	37
DM +41° 289	1 11 22.1	+41 49.0	8.4	38
DM +42° 334	1 11 54.3	+42 45.0	6.5	39
DM +42° 283	1 12 42.7	+42 28.4	7.5	40
DM +42° 288	1 15 53.7	+42 23.2	6.5	41
DM +42° 308	1 17 49.4	+42 41.2	5.0	42
DM +42° 315	1 18 12.1	+42 56.9	5.9	43
DM +43° 328	1 19 36.1	+43 7.6	8.0	44



DM +43° 332	1 19 41.1	+43 17.9	6.5	45
DM +42° 341	1 22 33.8	+42 52.5	8.0	46
DM +43° 378	1 24 40.8	+43 9.0	8.4	47
DM +43° 376	1 25 29.8	+43 20.4	8.1	48
DM +43° 344	1 29 59.9	+43 24.2	7.5	49
DM +43° 328	1 30 42.0	+43 37.2	5.0	50
DM +44° 345	1 32 59.8	+44 18.8	8.6	51
DM +44° 352	1 34 29.6	+44 34.1	6.8	52
DM +44° 362	1 34 57.4	+44 40.6	8.5	53
DM +45° 370	1 35 37.4	+45 24.7	6.8	54

Project PHaEDRA - Annie Jump Cannon 32  
 Transcribed and Reviewed by Digital Volunteers  
 Extracted Aug-30-2022 03:45:05

22

Nov. 16, 1922 (Cont)

I 36956

[[4 column table]]

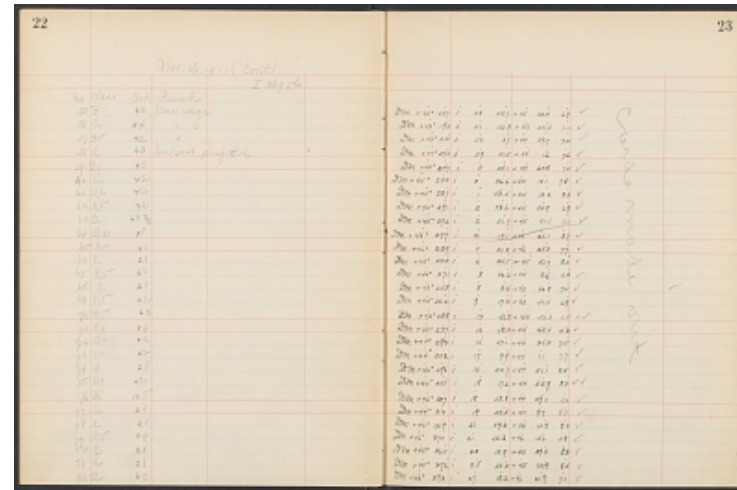
No	Class	Int.	Remark
55	F   63		Near edge
56	A   84		Near edge
57	F5   42		Near edge
58	A   63		Line 4026 suspected
59	A0   42		
60	A   42		
61	A2   42		
62	K5   42		
63	A   63		<del>[[/del]] 2 <del>[[/del]]</del></del>
64	A2   21		
65	G5   42		
66	K   21		
67	K5   63		
68	A   21		
69	K5   42		
70	B5   63		
71	K0   84		
72	A0   42		
73	K0   42		
74	F   21		
75	B8   42		
76	F0   108		
77	A   21		
78	K   21		
79	G5   84		
80	A0   21		
81	A   21		
82	A   63		

23

Cards made out

[[5 column table]]

DM +45° 232	1 38 54.7	+45 30.4	6.9	55
DM +43° 224	0 51 52.9	+43 55.4	6.2	56
DM +44° 219	0 53 3.7	+44 39.7	7.2	57
DM +44° 231	0 59 51.5	+44 1.6	7.6	58
DM +44° 244	1 0 34.1	+44 25.8	7.5	59
DM +45° 245	1 0 36.6	+45 10.1	7.8	60
DM +45° 248	1 1 50.5	+45 12.2	8.0	61
DM +45° 252	1 2 48.6	+45 24.9	6.9	62
DM +45° 282	1 2 51.7	+45 51.6	7.0	63
DM +46° 273	1 2 19.1	+46 35.1	8.7	64
DM +46° 289	1 4 31.3	+46 25.3	7.7	65
DM +45° 334	1 6 34.5	+45 51.7	8.0	66
DM +44° 283	1 8 40.2	+44 8.6	6.4	67
DM +43° 288	1 8 8.4	+43 40.8	7.5	68
DM +43° 308	1 9 17.4	+43 51.4	6.9	69



DM +42° 315	1 13 46.8	+42 50.0	6.5	70
DM +44° 328	1 13 48.3	+44 45.4	5.2	71
DM +44° 332	1 14 47.1	+44 34.5	7.5	72
DM +44° 341	1 17 9.9	+44 1.1	7.7	73
DM +44° 378	1 16 33.7	+44 51.1	8.5	74
DM +44° 376	1 18 17.6	+44 555.9	8.3	75
DM +44° 344	1 18 28.8	+44 39.0	5.0	76
DM +44° 328	1 19 50.5	+44 9.7	8.5	77
DM +44° 345	1 21 59.2	+44 10.8	8.0	78
DM +46° 352	1 21 26.6	+46 15.6	5.8	79
DM +45° 362	1 23 12.9	+45 39.4	8.3	80
DM +45° 370	1 25 20.0	+45 13.9	8.5	81
DM +46° 370	1 27 18.2	+46 21.9	7.0	82

Project PHaEDRA - Annie Jump Cannon 32  
 Transcribed and Reviewed by Digital Volunteers  
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24

Nov. 16, 1911 (cont)

I36956

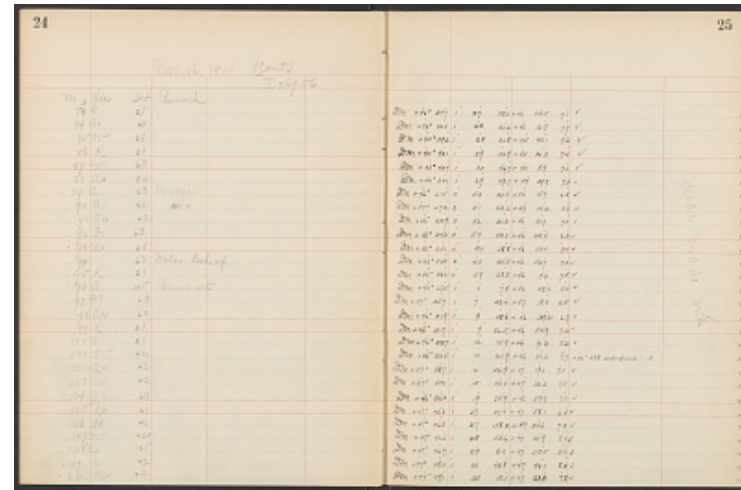
[[4 column table]]

No	Class	Int	Remark
8	<del>[[/del]]</del>	4	<del>[[/del]]</del> 3   G   21
84	A0	42	
85	F5	21	
86	K	21	
87	G5	63	
88	A0	84	
89	A	63	On edge
90	A	42	<del>[[/del]]</del> <del>[[/del]]</del> on edge
91	A2	42	
92	F0	63	
93	A0	21	
94		63	Peculiar. Look up.
95	K	21	
96	A	105	Burned out
97	B8	63	
98	K2	63	
99	K	21	
100	F	21	
101	A5	42	
102	A2	42	
103	A	42	
104	A0	63	
105	K0	63	
106	F0	42	
107	F5	42	
108	K0	105	
109	A	42	
110	A	42	

25

[[4 column table]]

DM +46° 397	1 27 38.2	+46 34.5	7.1	[[checkmark]]
DM +46° 404	1 28 30.2	+46 12.7	7.7	[[checkmark]]
DM +45° 392	1 28 31.8	+45 43.1	7.6	[[checkmark]]
DM +45° 401	1 29 56.9	+45 36.3	7.4	[[checkmark]]
DM +45° 404	1 30 46.7	+45 8.9	7.0	[[checkmark]]
DM +44° 341	1 29 49.7	+44 39.7	7.0	[[checkmark]]
DM +46° 215	0 50 30.4	+46 15.7	6.5	[[checkmark]]
DM +47° 272	0 51 43.2	+47 14.2	6.6	[[checkmark]]
DM +46° 229	0 52 21.2	+46 31.7	7.0	[[checkmark]]
DM +46° 243	0 54 43.0	+46 35.4	6.3	[[checkmark]]
DM +46° 241	0 54 28.8	+46 54.4	7.4	[[checkmark]]
DM +46° 245	0 55 35.5	+46 50.7	7.0	[[checkmark]]
DM +46° 266	0 59 28.8	+46 4.0	7.5	[[checkmark]]
DM +46° 275	1 1 7.8	+46 28.2	4.4	[[checkmark]]
DM +47° 357	1 7 53.4	+47 19.0	6.5	[[checkmark]]





DM +46° 319	1 9 38.6	+46 39.2	6.7	[[checkmark]]
DM +46° 317	1 9 26.5	+46 54.9	7.2	[[checkmark]]
DM +46° 327	1 12 14.9	+46 17.2	8.2	[[checkmark]]
DM +46° 334	1 13 20.9	+46 31.2	7.7	+46 deg 335 Superposed?
[[checkmark]]				
DM +47° 387	1 12 56.9	+47 19.1	7.1	[[checkmark]]
DM +47° 400	1 15 34.0	+47 32.2	7.5	[[checkmark]]
DM +46° 363	1 19 25.9	+46 59.7	7.3	[[checkmark]]
DM +47° 460	1 27 37.4	+47 58.1	6.4	[[checkmark]]
DM +47° 463	1 27 58.2	+47 34.6	7.0	[[checkmark]]
DM +47° 466	1 28 53.6	+47 40.9	8.0	[[checkmark]]
DM +47° 467	1 29 8.4	+47 53.5	3.6	[[checkmark]]
DM +47° 483	1 33 40.8	+47 40.1	8.0	[[checkmark]]
DM +47° 491	1 35 18.0	+47 28.4	7.8	[[checkmark]]

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

Project PHaEDRA - Annie Jump Cannon 32  
 Transcribed and Reviewed by Digital Volunteers  
 Extracted Aug-30-2022 03:45:05

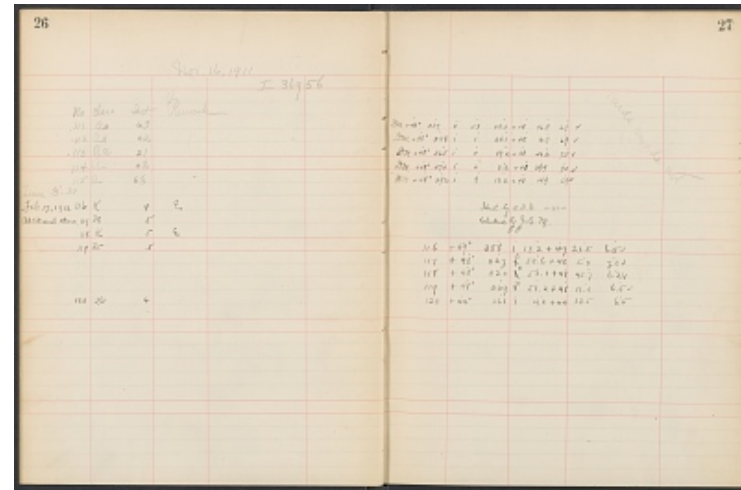
26

Nov. 16, 1911  
I 36956

No Class Int Remark

111 A0 63  
112 A0 42  
113 A2 21  
114 A 42  
115 A 63  
Time 3:30  
Feb 17, 1912 116 K 4 E  
Additional stars 117 F8 5  
118 K 5 E  
119 F5 5

120 K5 4



27

cards made out

[[5 column table]]

DM +48° 337	0 58 48.0	+48 46.9	6.7	111
DM +48° 348	1 1 24.1	+48 16.7	6.9	112
DM +48° 365	1 4 49.2	+48 30.2	7.5	113
DM +48° 374	1 6 2.2	+48 39.9	7.0	114
DM +48° 392	1 9 13.2	+48 14.9	6.9	115

Ident. by A.D.W. 11-23-11  
Checked by J.C.M.

116	+49° 358	1 13.2	+49 21.5	6.5
117	+48° 327	<del>1</del>	<del>0 55.6</del>	+48 5.0   7.0
118	+48° 320	<del>1</del>	<del>0 53.1</del>	+48 45.7
6.2				
119	+48° 309	<del>1</del>	<del>0 51.2</del>	+48 11.0
6.5				
120	+44° 261	1 4.2	+44 32.5	6.5

Project PHaEDRA - Annie Jump Cannon 32  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-30-2022 03:45:05

28

Nov. 26, 1911

I 37371  
Time 12:30

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

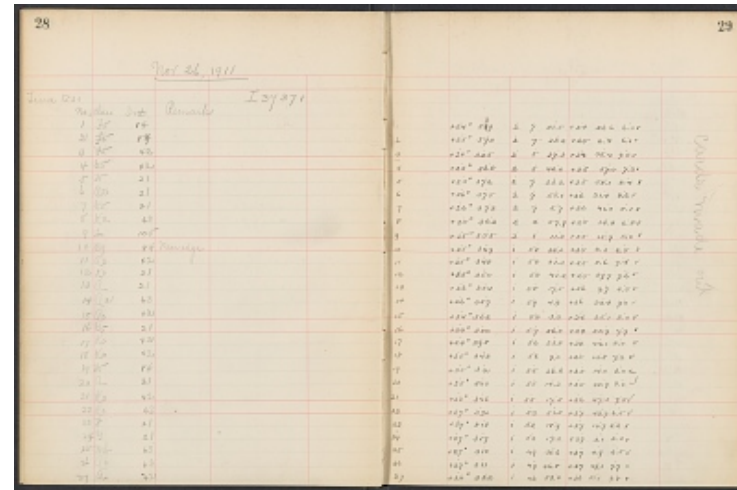
1	F5	84	
2	F5	84	
3	F5	42	
4	G5	42	
5	F5	21	
6	A2	21	
7	G5	21	
8	K2	63	
9	F0	105	
10	B9	84	Near edge
11	A3	42	
12	K0	21	
13	A	21	
14	A2	63	
15	A0	42	
16	G5	21	
17	K0	42	
18	K0	42	
19	F5	84	
20	A	21	
21	K0	42	
22	K0	63	
23	F	21	
24	G	21	
25	Mb	63	
26	A0	63	
27	A	42	

29

[5 column table]

Cards Made Out

1	+24° 3	<del>3</del>	<del>29</del>	2	7	31.5	+24	22.6	
2	+25° 373	2	7	28.2	+25	6.4	6.1		
3	+24° 325	2	5	27.2	+24	55.4	7.5		
4	+25° 368	2	5	46.0	+25	57.0	7.3		
5	+25° 372	2	7	22.2	+25	58.1	8.4		
6	+26° 375	2	7	55.1	+26	21.4	8.6		
7	+26° 373	2	7	5.7	+26	41.0	8.1		
8	+25° 362	2	2	57.9	+25	14.4	6.8		
9	+25° 355	2	1	11.2	+25	15.9	5.0		
10	+25° 349	1	58	38.0	+25	0.3	6.5		
11	+25° 348	1	58	31.3	+25	8.6	7.4		
12	+25° 350	1	58	41.2	+25	37.7	7.6		
13	+26° 354	1	58	17.5	+26	9.7	8.5		
14	+26° 357	1	59	4.9	+26	33.4	7.0		



15	+24° 302	1 58 3.3	+24 25.1	8.0
16	+24° 300	1 57 36.0	+24 25.9	7.9
17	+24° 298	1 56 23.8	+24 44.1	8.0
18	+25° 343	1 56 9.0	+25 13.8	7.2
19	+25° 341	1 55 26.6	+25 14.0	6.0
20	+25° 340	1 55 14.2	+25 48.9	8.0
21	+26° 346	1 55 17.3	+26 47.3	7.5
22	+27° 320	1 53 51.3	+27 42.7	6.5
23	+27° 318	1 52 18.9	+27 10.7	8.6
24	+27° 317	1 52 17.2	+27 3.1	8.3
25	+27° 310	1 49 30.6	+27 4.9	6.5
26	+27° 311	1 49 46.8	+27 49.1	7.7
27	+26° 322	1 46 53.0	+26 51.1	7.8

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Nov. 26, 1911 (cont)

I 37371

[[4 column table]]

No. | Class | Int. | Remark

28 | K | 21 | |

29 | F | 42 | near edge

30 | B5 | 63 | near edge

31 | F | 42 | near edge

32 | A0 | 105 | |

33 | Ma | 42 | |

34 | F5 | 63 | |

35 | G7 | 63 | |

36 | K | 21 | |

37 | A0 | 42 | |

38 | A2 | 63 | |

39 | A3 | 42 | |

40 | K | 21 | Perhaps an error in recording or I may have said A while thinking K. Certainly K was intended. A.J.C. June 17, 1915

41 | G5 | 42 | |

42 | F5 | 42 | |

43 | F5 | 63 | |

44 | K | 21 | |

45 | K0 | 42 | |

46 | A2 | 42 | |

47 | F2 | 63 | ~~[[strikethrough]]~~ 2 ~~[[strikethrough]]~~ | |

48 | F | 21 | |

49 | K2 | 42 | |

50 | F | 10+5+ | Burned out

51 | G5 | 42 | |

52 | F5 | 42 | |

53 | K0 | 63 | |

54 | A3 | 42 | |

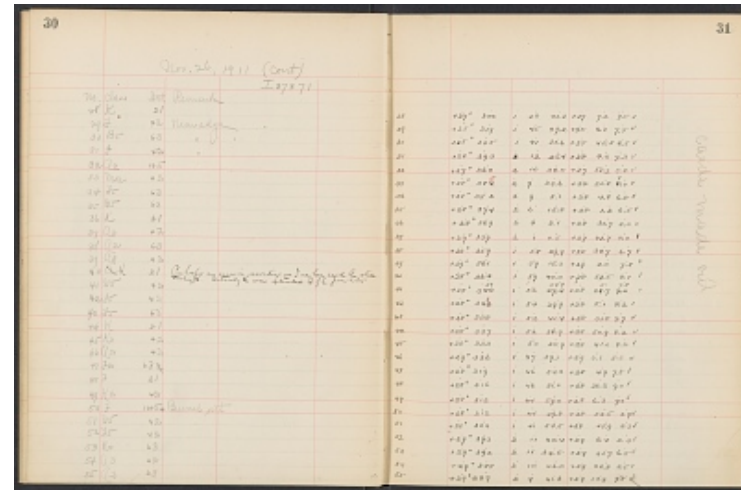
55 | A3 | 63 | |

31

[[5 column table]]

Cards Made Out

28	+27°	300	1 46 43.2	+27 7.2	7.5
29	+25°	319	1 45 47.2	+25 4.0	7.5
30	+25°	305	1 41 20.6	+25 45.8	6.5
31	+28°	393	2 12 25.4	+28 4.0	7.3
32	+27°	360	2 10 34.5	+27 58.2	5.8
33	+28°	385	2 9 33.6	+28 20.8	7.0
34	+28°	382	2 9 2.1	+28 4.8	6.8
35	+28°	374	2 6 15.8	+28 1.2	6.5
36	+28°	369	2 4 2.1	+28 30.7	8.0
37	+27°	337	2 1 0.5	+27 42.7	8.0
38	+28°	359	1 58 29.9	+28 34.7	6.7
39	+29°	361	1 59 15.3	+29 4.0	7.8
40	+28°	364	1 59 40.0	+28 52.5	8.1
41	+28°	351	1 56 57.9	+28 25.7	7.8
42	+28°	341	1 54 29.9	+28 5.1	8.2
43	+28°	338	1 52 41.4	+28 31.8	7.7
44	+28°	337	1 52 38.9	+28 41.0	8.2
45	+28°	333	1 50 25.9	+28 41.0	8.2
46	+29°	326	1 47 39.1	+29 0.1	8.3
47	+28°	319	1 46 53.4	+28 4.9	7.5



48	+28° 316	1 46 31.0	+28 26.2	9.0
49	+28° 313	1 44 57.0	+28 6.3	7.0
50	+28° 312	1 44 49.8	+28 52.5	3.9
51	+28° 304	1 41 54.5	+28 45.9	8.3
52	+29° 393	2 11 45.4	+29 8.4	8.3
53	+29° 392	2 11 34.5	+29 31.7	6.5
54	+29° 388	2 10 46.0	+29 22.8	8.5
55	+29° 387	2 9 41.6	+29 10.9	7.5

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Nov. 26, 1911 (cont.)  
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[[4 column table]]

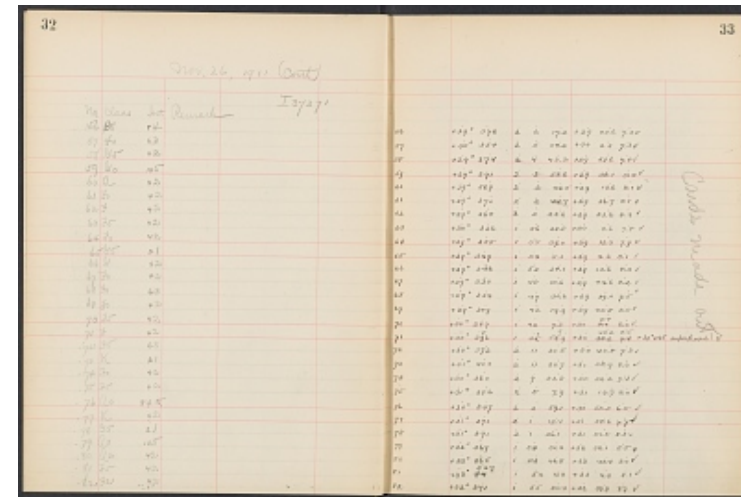
No.	Class	Int.	Remark
56	B8	84	
57	F0	63	
58	G5	42	
59	G0	105	
60	A	42	
61	F0	42	
62	F	42	
63	F5	42	
64	F0	42	
65	G5	21	
66	G	42	
67	F0	42	
68	F0	63	
69	F0	42	
70	F5	42	
71	F	42	
72	F5	63	
73	K	21	
74	F0	42	
75	F5	42	
76	A0	84	<del>[[strikethrough]] 5[[/strikethrough]]</del>
77	K	42	
78	G5	21	
79	A0	105	
80	A2	42	
81	F5	42	
82	F2	42	

33

Cards Made Out

[[5 column table]]

56	+29° 376	2	6	17.2	+29	43.6	7.3
57	+30° 354	2	5	54.2	+30	3.3	7.3
58	+29° 374	2	4	43.2	+29	52.6	7.8
59	+29° 371	2	3	58.6	+29	38.1	5.0
60	+29° 369	2	2	44.5	+29	13.6	8.1
61	+29° 370	2	2	44.7	+29	26.7	8.1
62	+29° 368	2	2	23.6	+29	23.6	8.3
63	+30° 326	1	56	22.8	+30	0.6	7.8
64	+29° 355	1	55	39.0	+29	12.3	7.9
65	+29° 349	1	54	5.1	+29	4.2	8.1
66	+29° 346	1	52	24.1	+29	13.6	8.3
67	+29° 330	1	48	10.6	+29	44.6	8.2
68	+29° 324	1	47	30.6	+29	39.0	7.5



69| +29° 309| 1 42 19.9 | +29 45.8 | 8.5 |  
 70| +30° 287| 1 42 7.2 | +30 5.4 | 8.0 |  
 71| +30° 286~~[[/del]]~~ 9 ~~[[/del]]~~ 8| 1 41 ~~[[/del]]~~  
 5 ~~[[/del]]~~ 1 57.9~~[[/del]]~~ 5 ~~[[/del]]~~ 7 | +30  
~~[[/del]]~~ 38.2~~[[/del]]~~ 40.2 ~~[[/del]]~~ 9.4  
~~[[/del]]~~ 8.5 +30°285 superposed?  
 72| +30° 372| 2 11 21.5 | +30 40.8 | 7.3 |  
 73| +31° 403| 2 11 30.7 | +31 38.9 | 8.0 |  
 74| +30° 360| 2 7 53.8 | +30 22.2 | 7.4 |  
 75| +31° 386| 2 5 7.9 | +31 13.7 | 8.0 |  
 76| +30° 347| 2 2 59.1 | +30 50.3 | 6.5 |  
 77| +31° 370| 2 1 12.4 | +31 38.6 | 7.7 |  
 78| +31° 371| 2 1 26.1 | +31 51.5 | 8.3 |  
 79| +32° 369| 1 54 31.4 | +32 36.1 | 5.5 |  
 80| +32° 365| 1 53 46.8 | +32 42.4 | 8.0 |  
 81| +33° ~~[[/del]]~~ 84 ~~[[/del]]~~ 347| 1 54 11.0 | +33 4.3 |  
 8.1 |  
 82| +32° 371| 1 55 20.4 | +32 59.9 | 7.7 |

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[[4 column table]]

No.	[Class]	Int.	Remark
83	K0	63	
84	A0	21	
85	B9	42	
86	A	21	
87	F5	84	
88	A5	63	
89	F0	42	
90	F5	21	
91	F5	42	
92	Mb	42	
93	K	21	
94	G	21	
95	F2	21	
96	G5	21	
97	A	63	
98	K	21	
99	A	105	Lines burned out
100	A	10+5+	Lines burned out
101	G	105	

12:48

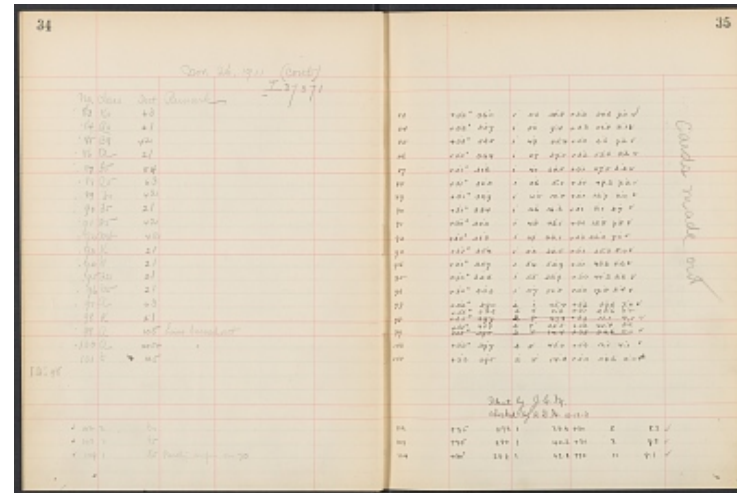
102	2	G0	
103	2	G5	
104	1	K5	Partly super. on 70

35

[[5 column table]]

Cards Made Out

83	+32° 360	1 50 38.8	+32 30.6	7.0
84	+32° 357	1 50 9.4	+32 51.8	8.1
85	+33° 328	1 49 25.4	+33 6.6	7.6
86	+32° 344	1 47 39.0	+32 52.6	8.6
87	+31° 316	1 40 24.8	+31 57.5	6.2
88	+31° 303	1 36 5.1	+31 47.2	7.2
89	+31° 329	1 45 10.8	+31 13.7	8.0
90	+31° 334	1 46 16.6	+31 8.1	8.7
91	+30° 303	1 48 42.1	+30 18.8	7.8
92	+30° 310	1 49 44.1	+30 26.0	7.0
93	+31° 354	1 53 22.5	+31 25.3	8.0
94	+31° 357	1 54 52.9	+31 42.6	8.6
95	+30° 324	1 55 28.9	+30 41.2	8.6
96	+30° 333	1 57 51.8	+30 17.8	8.4
97	+32° 390	2 1 45.4	+32 39.6	7.0
98	<del>[[strikethrough]]</del>	+33° 397	2 8 43.4	+33 11.1   4.1 <del>[[strikethrough]]</del>
99	+31° 382	2 4 0.4	+31 28.6	7.5
99	<del>[[strikethrough]]</del>	+33° 395	2 8 14.4	+33 34.6   5.0 <del>[[strikethrough]]</del>
	+32° 409	2 7 22.5	+32 42.4	5.2
100	+33° 397	2 8 43.4	+33 11.1	4.1
101	+33 395	2 8 14.4	+33 34.6	5.0



Ident. by J.C.M.  
Checked by A.D.W. 12-12-'11

102		+30° 273		1 38.4		+30 5		8.3
103		+30° 280		1 40.2		+30 3		8.3
104		+30° 288		1 42.2		+30 11		8.1

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Time 10.02

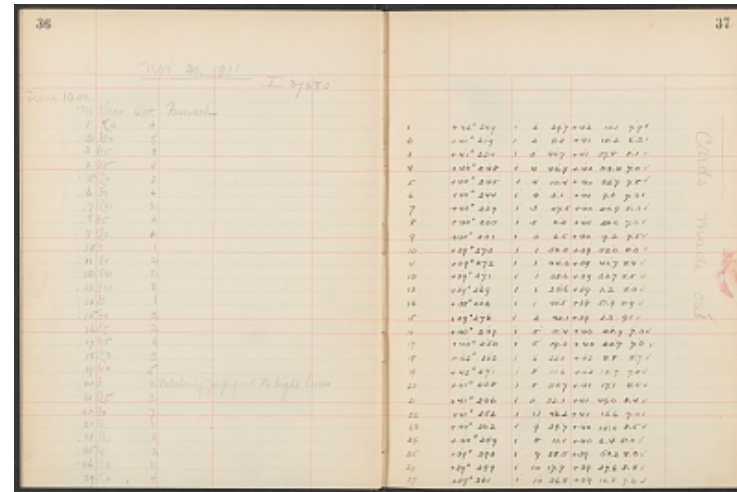
No. | Class | Int. | Remark

1	K0	4	
2	G0	8	
3	G5	3	
4	G5	4	
5	A0	3	
6	F0	4	
7	A2	2	
8	G5	3	
9	A2	4	
10	G	1	
11	F0	2	
12	F2	2	
13	F2	3	
14	G	1	
15	F0	2	
16	K5	2	
17	G5	4	
18	A3	3	
19	G0	5	
20	F	3	Nebulosity superposed. No bright lines
21	A5	2	
22	F0	7	
23	A	3	
24	A	3	
25	G	2	
26	A3	2	
27	K0	4	

37

Cards made Out  
[[5 column table]]

1	+42° 249	1 2 29.7	+42 10.1	7.7
2	+41° 219	1 2 8.3	+41 18.2	6.2
3	+41° 224	1 3 40.7	+41 27.8	8.1
4	+40° 248	1 4 46.9	+40 53.8	7.0
5	+40° 245	1 4 10.4	+40 32.7	7.8
6	+40° 244	1 4 3.1	+40 9.0	7.3
7	+40° 239	1 3 47.5	+40 20.9	8.3
8	+40° 235	1 3 0.2	+40 28.2	7.0
9	+40° 231	1 2 2.5	+40 9.2	7.5
10	+39° 273	1 1 50.3	+39 52.0	8.3
11	+39° 272	1 1 44.2	+39 41.7	8.4
12	+39° 271	1 1 38.6	+39 23.7	8.8
13	+39° 269	1 1 25.6	+39 1.2	8.0
14	+38° 202	1 1 40.5	+38 51.9	8.9
15	+39° 276	1 2 42.1	+39 2.3	9.1
16	+40° 249	1 5 5.4	+40 28.9	7.3
17	+40° 250	1 5 19.3	+40 23.7	7.3
18	+42° 262	1 6 22.0	+42 8.8	8.7
19	+42° 271	1 8 11.6	+42 10.7	7.0
20	+41° 238	1 8 53.7	+41 17.1	8.5



21	+41° 246	1 11 22.1	+41 49.0	8.4
22	+41° 252	1 11 46.2	+41 12.6	7.0
23	+40° 262	1 9 29.7	+40 15.0	8.5
24	+40° 259	1 8 11.1	+40 6.4	8.0
25	+39° 292	1 7 58.5	+39 53.2	8.3
26	+39° 299	1 10 17.7	+39 27.6	8.4
27	+39° 301	1 10 36.8	+39 10.8	7.2

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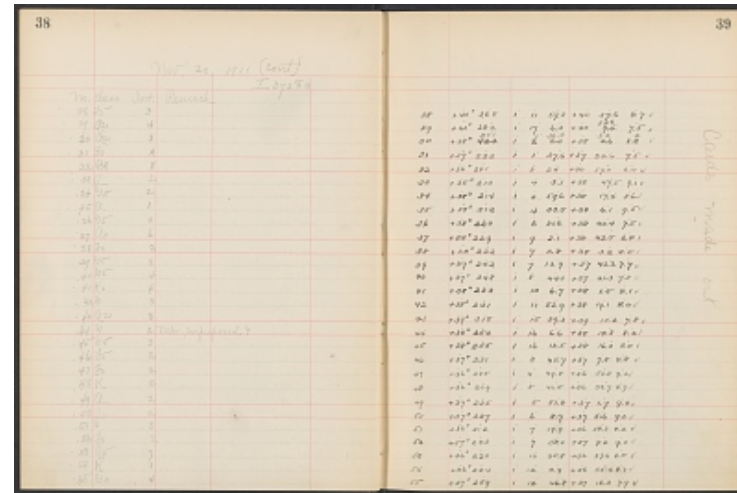
[[4 column table]]

No.	Class	Int.	Remark
28	F5	3	
29	A2	4	
30	A2	3	
31	F0	4	
32	B8	8	
33	A	2	
34	G5	2	
35	A	1	
36	G5	3	
37	A0	6	
38	F0	2	
39	G5	3	
40	G5	4	
41	K0	4	
42	G	3	
43	A2	3	
44	F	2	neb. ?
45	G5	3	
46	F5	2	
47	F0	2	
48	K	2	
49	A	2	
50	A	2	
51	G	3	
52	F0	3	
53	A5	7	
54	K	1	
55	G0	4	

39

[[5 column table]]

28	+40° 268	1 11 59.3	+40 37.6	8.7	Check
29	+30° 282	1 17 6.3	+40 <del>7.5</del>	<del>7.5</del>	35.6   7.5   Check
30	+38° <del>423</del>	<del>423</del>	<del>201</del>	<del>1</del>	<del>2</del>
	<del>0.0</del>	<del>1 36.0</del>	<del>+38</del>	<del>0.6</del>	<del>8.8</del>
	<del>3.2</del>	<del>8.2</del>			Check
31	+37° 223	1 1 37.6	+37 20.6	7.5	Check
32	+36° 201	1 3 2.4	+36 57.0	6.0	
33	+38° 210	1 4 3.1	+38 47.5	9.1	
34	+38° 214	1 4 59.6	+38 17.4	8.6	
35	+38° 212	1 4 33.5	+38 6.1	9.5	
36	+38° 220	1 6 31.6	+38 40.4	7.5	
37	+38° 229	1 9 2.1	+38 42.5	6.8	
38	+38° 222	1 7 0.8	+38 3.2	8.5	



39	+37° 242	1 7 13.9	+37 43.2	7.7
40	+37° 248	1 8 44.0	+37 41.3	7.8
41	+38° 233	1 10 6.7	+38 1.5	8.1
42	+38° 241	1 11 52.9	+38 19.1	8.0
43	+39° 318	1 15 39.3	+39 10.2	7.8
44	+38° 254	1 16 6.6	+38 18.3	8.2
45	+38° 255	1 16 13.5	+38 16.0	8.0
46	+37° 231	1 3 45.7	+37 7.8	8.8
47	+36° 205	1 4 49.8	+36 54.8	9.0
48	+36° 209	1 5 41.5	+36 53.7	8.7
49	+37° 235	1 5 51.8	+37 1.7	9.0
50	+37° 237	1 6 8.7	+37 5.6	9.0
51	+36° 212	1 7 19.9	+36 58.3	8.2
52	+37° 243	1 7 58.0	+37 9.2	9.0
53	+36° 220	1 10 35.8	+36 37.6	6.5
54	+36° 224	1 12 3.9	+36 55.4	8.7
55	+37° 259	1 12 46.8	+37 16.3	7.9

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Nov. 30, 1911 (cont.)

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[[4 column table]]

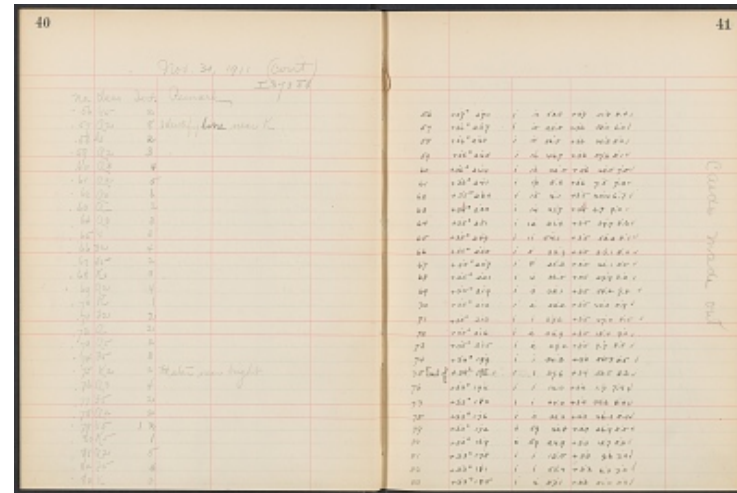
No.	Class	Int.	Remark
56	G5	2	
57	A2	8	Identify lines near K
58	G	2	
59	A2	3	
60	A3	4	
61	A2	3	
62	A0	6	
63	A	2	
64	A3	3	
65	G	3	
66	F2	4	
67	F5	2	
68	K0	3	
69	A2	4	
70	K	1	
71	F2	2	
72	A	2	
73	A5	2	
74	F5	3	
75	K2	2	Ft. star near bright
76	A3	4	
77	F5	2	
78	A2	2	
79	G5	1	<del>[[/strickethrough]]</del> 2 <del>[[/strickethrough]]</del>
80	K5	1	
81	A2	5	
82	F5	4	
83	K	3	

41

Cards Made Out

[[5 column table]]

56	+37° 270	1 14 53.3	+37 5.8	8.4
57	+36° 237	1 15 22.8	+36 58.0	6.0
58	+36° 240	1 15 56.5	+36 46.2	8.0
59	+36° 245	1 16 44.7	+36 57.6	8.1
60	+36° 244	1 16 42.5	+36 42.5	7.8
61	+36° 241	1 16 8.6	+36 7.5	7.3
62	+35° 260	1 15 4.1	+35 45.4	6.7
63	+3 <del>[[/strickethrough]]</del> 5 <del>[[/strickethrough]]</del>	6° 233	1 14 47.7	+3
	<del>[[/strickethrough]]</del> 5 <del>[[/strickethrough]]</del>	6 6.7	9.0	
64	+35° 251	1 12 21.4	+35 39.7	8.6
65	+35° 249	1 11 54.1	+35 53.2	8.1
66	+35° 238	1 8 33.9	+35 33.1	8.0
67	+35° 237	1 8 25.2	+35 40.1	8.5



68	+35° 221	1 4 36.5	+35 29.9	8.2
69	+35° 219	1 3 38.1	+35 38.2	7.8
70	+35° 214	1 2 22.2	+35 40.3	8.9
71	+35° 213	1 1 27.6	+35 47.0	8.5
72	+35° 216	1 2 34.9	+35 18.4	9.0
73	+35° 215	1 2 29.2	+35 9.7	8.8
74	+34° 199	1 1 54.2	+34 55.7	8.5
75	Trail of   +34° 198	1 1 37.6	+34 50.5	2.2
76	+34° 194	1 1 14.0	+34 1.7	7.4
77	+33° 180	1 1 40.0	+33 50.6	8.0
78	+33° 176	1 0 32.4	+33 26.9	8.5
79	+33° 172	0 59 40.8	+33 26.9	8.5
80	+33° 169	0 59 24.9	+33 12.7	8.2
81	+33° 178	1 1 12.5	+33 9.6	7.0
82	+33° 181	1 1 55.4	+33 6.4	7.0
83	+33° 185	1 4 27.1	+33 21.0	8.0

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Nov. 30, 1911 (Cont)

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

84	A	6	
85	F5	4	
86	F5	2	
87	G5	2	
88	G5	2	
89	F5	3	
90	F	2	Poor focus
91	K	1	
92	K	2	
93	G5	4	
94	G5	2	
95	A0	4	
96	K	3	
97	K	3	
98	K	3	
99	A	2	
100	G5	5	
101	A3	3	
102	A5	3	
103	A5	4	
104	K0	6	
105	F5	4	

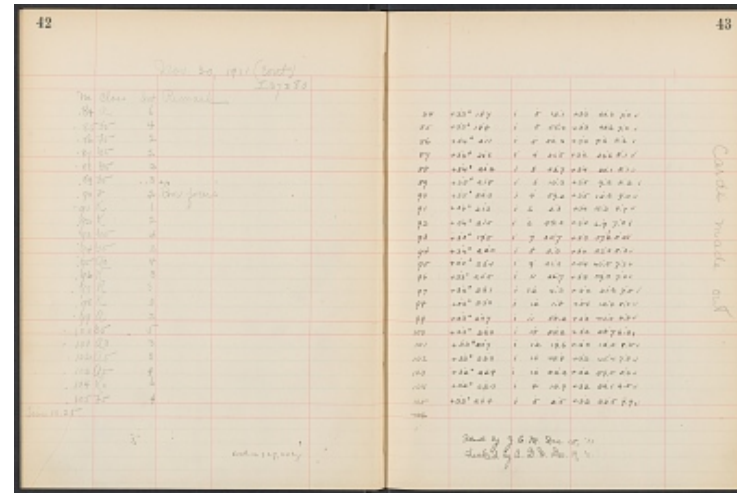
Time 10.25

Cont. in 127,202

43

[[5 column table]]  
Cards Made Out

84	+33° 187	1 5 12.1	+33 20.6	7.0
85	+33° 188	1 5 55.4	+33 43.6	7.0
86	+34° 211	1 5 30.3	+34 9.6	8.6
87	+34° 206	1 4 31.5	+34 24.6	8.1
88	+34° 202	1 3 33.7	+34 20.1	8.1
89	+35° 218	1 3 10.3	+35 9.2	8.2
90	+35° 223	1 4 59.2	+35 12.6	9.0
91	+34° 213	1 6 2.3	+34 15.2	8.7
92	+34° 215	1 6 55.3	+34 6.9	7.8
93	+33° 195	1 7 35.7	+33 57. <del>[[strikethrough]]</del> 2 <del>[[strikethrough]]</del> 1	8.2
94	+34° 220	1 8 3.3	+34 27.3	8.3
95	+34° 224	1 9 21.3	+34 40.5	7.7



96		+33° 205		1 11 26.7		+33 59.3		7.3
97		+34° 231		1 12 4.3		+34 21.6		7.8
98		+34° 230		1 12 1.8		+34 12.4		8.0
99		+33° 207		1 11 55.2		+33 44.0		8.8
100		+33° 220		1 15 25.2		+33 28.7		6.3
101		+33° 209		1 12 19.6		+33 13.0		8.5
102		+32° 230		1 10 48.8		+32 45.4		7.8
103		+32° 229		1 10 33.3		+32 59.5		8.0
104		+32° 223		1 8 13.9		+32 22.1		6.5
105		+32° 204		1 5 2.5		+32 22.5		7.9
[[/strikethrough]] 106 [[/strikethrough]]								

Ident. by J.C.M. Dec. 18, '11  
 Checked by A.D.W. Dec. 19, '11

Project PHaEDRA - Annie Jump Cannon 32  
 Transcribed and Reviewed by Digital Volunteers  
 Extracted Aug-30-2022 03:45:05

44

December 3, 1911  
Time 10:45 | 37381

[[ 4 column table ]]

No. | Class | Int. | Remark

1	G5	7	
2	B8	3	
3	A	2	
4	<del>[[G5]]</del>	<del>F5</del>	6
5	G5	2	
6	F5	8	
7	G5	3	
8	K5	3	
9	K0	4	
10	A3	4	
11	B8?	8	Near edge.
12	F5	4	
13	G0	6	
14	K0	5	
15	A2	2	
16	K0	3	
17	K2	3	
18	G	2	
19	G	6	
20	A2	6	
21	G	2	
22	K0	5	
23	Mb	3	
24	A	2	
25	A2	2	
26	G5	3	
27	F5	3	

45

[[5 column table]]

| D.M.No. | R.A. | Dec. | Magn.

~~1~~ | ~~h m s~~ | ~~° ' "~~ | ~~magn.~~

~~2~~ | ~~1 +33° 220~~ | ~~1 15 25.2~~ | ~~+33 28.7~~ | ~~6.3~~

~~3~~ | ~~2 +33° 224~~ | ~~1 16 51.4~~ | ~~+33 55.0~~ | ~~8.5~~

~~4~~ | ~~3 +33° 226~~ | ~~1 17 28.0~~ | ~~+33 52.5~~ | ~~8.9~~

4 | +33° 228 | 1 17 54.0 | +33 49.7 | 6.5

5 | +33° 232 | 1 18 49.5 | +33 53.2 | 7.8

6 | +33° 234 | 1 18 52.4 | +33 36.4 | 6.6

7 | +32° 239 | 1 13 58.4 | +32 29.0 | 8.7

8 | +32° 245 | 1 15 6.3 | +32 31.8 | 7.7

9 | +32° 249 | 1 17 8.6 | +32 10.4 | 8.0

10 | +33° 246 | 1 22 39.4 | +33 26.6 | 8.1

11 | +34° 265 | 1 23 53.5 | +34 3.6 | 6.6

12 | +33° 2 | ~~6~~ | 1 24 43.7 | +33 7.2 |

44		45	
D.M.No.		R.A.	
Dec.		Magn.	
1	+33° 228	1 17 54.0	+33 49.7
2	+33° 232	1 18 49.5	+33 53.2
3	+33° 234	1 18 52.4	+33 36.4
4	+32° 239	1 13 58.4	+32 29.0
5	+32° 245	1 15 6.3	+32 31.8
6	+32° 249	1 17 8.6	+32 10.4
7	+33° 246	1 22 39.4	+33 26.6
8	+34° 265	1 23 53.5	+34 3.6
9	+33° 2	1 24 43.7	+33 7.2
10	+33° 228	1 17 54.0	+33 49.7
11	+33° 232	1 18 49.5	+33 53.2
12	+33° 234	1 18 52.4	+33 36.4
13	+32° 239	1 13 58.4	+32 29.0
14	+32° 245	1 15 6.3	+32 31.8
15	+32° 249	1 17 8.6	+32 10.4
16	+33° 246	1 22 39.4	+33 26.6
17	+34° 265	1 23 53.5	+34 3.6
18	+33° 2	1 24 43.7	+33 7.2
19	+33° 228	1 17 54.0	+33 49.7
20	+33° 232	1 18 49.5	+33 53.2
21	+33° 234	1 18 52.4	+33 36.4
22	+32° 239	1 13 58.4	+32 29.0
23	+32° 245	1 15 6.3	+32 31.8
24	+32° 249	1 17 8.6	+32 10.4
25	+33° 246	1 22 39.4	+33 26.6
26	+34° 265	1 23 53.5	+34 3.6
27	+33° 2	1 24 43.7	+33 7.2

7.8

13	+32° 272	1 26 44.8	+32 22.9	7.2
14	+33° 259	1 27 36.4	+33 6.1	6.5
15	+32° 281	1 28 37.0	+32 55.0	8.2
16	+32° 280	1 28 34.3	+32 6.7	7.9
17	+32° 299	1 34 7.0	+32 13.7	7.6
18	+31° 297	1 34 14.4	+31 55.3	8.1
19	+31° 301	1 35 35.7	+31 29.2	6.5
20	+31° 303	1 36 5.1	+31 47.2	7.2
21	+31° 232	1 13 38.4	+31 53.0	8.4
22	+30° 210	1 14 6.8	+30 56.6	7.6
23	+31° 236	1 14 51.3	+31 5.0	7.6
24	+31° 238	1 15 21.6	+31 1.6	9.0
25	+31° 241	1 16 12.3	+31 9.0	9.0
26	+31° 243	1 16 32.0	+31 14.2	8.0
27	+31° 244	1 16 52.9	+31 7.5	8.7

Project PHaEDRA - Annie Jump Cannon 32  
 Transcribed and Reviewed by Digital Volunteers  
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December 3, 1911 (cont)

I 37381

[[4 column table]]

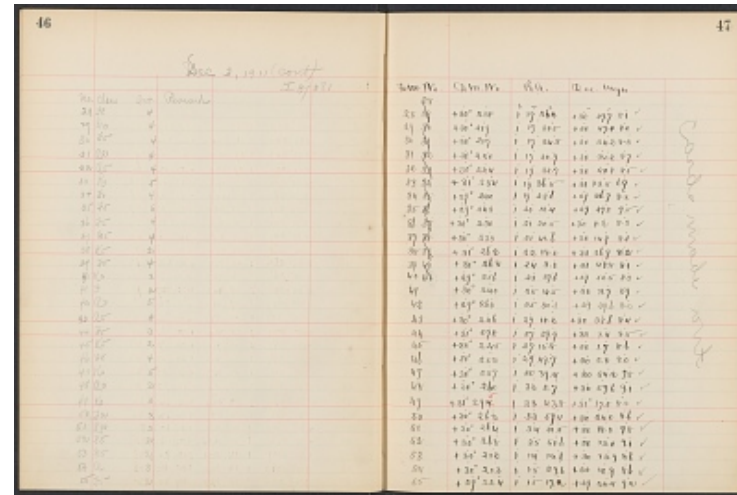
No.	Class	Int.	Remark
28	F8	4	
29	G0	4	
30	F5	4	
31	A2	4	
32	A5	4	
33	K0	5	
34	F0	4	
35	F5	6	
36	F5	4	
37	G5	4	
38	K5	2	
39	F5	4	
40	K0	3	
41	F	2	
42	A3	5	
43	A5	4	
44	F5	3	
45	K5	2	
46	F8	4	
47	K0	5	
48	A3	2	
49	K0	3	
50	F2	3	
51	K2	3	
52	F5	2	
53	G5	2	
54	A	3	
55	F5	2	

47

[[5 column table]]

[[~~strickethrough~~]] D.M.No. [[~~strickethrough~~]] No. | D.M.No. | R.A | Dec. |  
Magn.  
Cards made out

[[~~strickethrough~~]] 28 [[~~strickethrough~~]] | | h m s | ° ' |  
[[~~strickethrough~~]] 29 [[~~strickethrough~~]] 28 | +30° 218 | 1 17 26.2 | +30 47.7  
8.1  
[[~~strickethrough~~]] 30 [[~~strickethrough~~]] 29 | +30° 219 | 1 17 30.5 | +30 47.4  
8.0  
[[~~strickethrough~~]] 31 [[~~strickethrough~~]] 30 | +30° 217 | 1 17 24.8 | +30 24.2  
8.3  
[[~~strickethrough~~]] 32 [[~~strickethrough~~]] 31 | +30° 220 | 1 17 30.9 | +30 34.2  
8.7  
[[~~strickethrough~~]] 33 [[~~strickethrough~~]] 32 | +30° 224 | 1 19 32.7 | +30 20.8|



8.5  
~~34~~ ~~33~~ | +31° 254 | 1 19 36.5 | +31 13.5  
 6.9  
~~35~~ ~~34~~ | +29° 240 | 1 19 23.6 | +29 46.7  
 8.3  
~~36~~ ~~35~~ | +29° 243 | 1 20 12.4 | +29 47.8  
 7.5  
~~37~~ ~~36~~ | +30° 230 | 1 21 20.5 | +30 8.2 |  
 8.3  
~~38~~ ~~37~~ | +30° 233 | 1 21 41.6 | +30 14.9  
 8.1  
~~39~~ ~~38~~ | +31° 262 | 1 22 18.0 | +31 26.9  
 8.2  
~~40~~ ~~39~~ | +31° 268 | 1 24 3.0 | +31 48.8 |  
 8.1  
~~41~~ ~~40~~ | +29° 256 | 1 23 37.6 | +29 52.5  
 8.3  
 41 | +30° 240 | 1 25 14.5 | +30 11.7 | 8.9  
 42 | +29° 260 | 1 25 30.1 | +29 39.6 | 8.0  
 43 | +30° 246 | 1 27 18.2 | +30 33.6 | 8.4  
 44 | +31° 278 | 1 27 29.9 | +31 1.4 | 8.5  
 45 | +30° 245 | 1 27 15.8 | +30 1.7 | 8.6  
 46 | +30° 252 | 1 29 49.7 | +30 2.8 | 8.0  
 47 | +30° 257 | 1 30 39.4 | +30 54.2 | 7.8  
 48 | +30° 260 | 1 32 5.7 | +30 59.6 | 9.1  
 49 | +31° ~~294~~ ~~295~~ | 1 33 43.8 | +31  
 17.8 | 8.0  
 50 | +30° 262 | 1 33 59.4 | +30 24.0 | 8.6  
 51 | +30° 264 | 1 34 41.5 | +30 18.1 | 7.8  
 52 | +30° 268 | 1 35 50.6 | +30 13.0 | 9.1  
 53 | +30° 212 | 1 14 14.6 | +30 13.9 | 8.6  
 54 | +30° 213 | 1 15 29.6 | +30 10.9 | 8.6  
 55 | +29° 224 | 1 15 17.2 | +29 24.4 | 9.2

Project PHaEDRA - Annie Jump Cannon 32  
 Transcribed and Reviewed by Digital Volunteers  
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Dec. 3, 1911 (cont.)

I 37381

[[4 column table]]

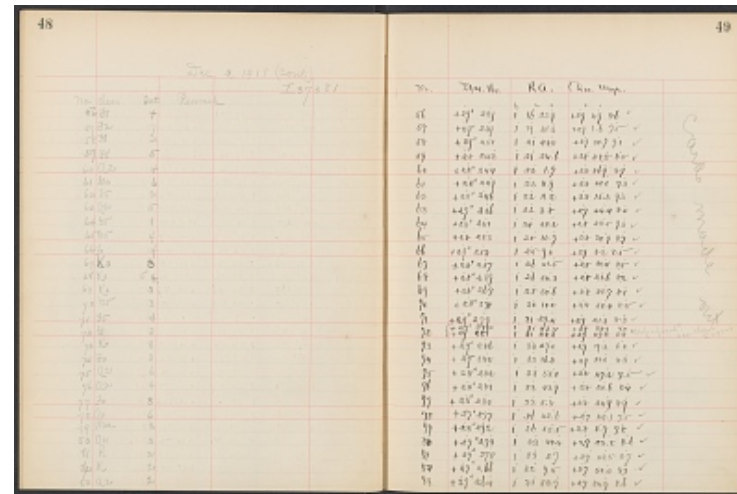
No.	Class	Int.	Remark
56	F8	4	
57	F2	7	
58	F8	2	
59	F8	5	
60	A2	4	
61	G0	6	
62	F5	2	
63	A2	5	
64	G5	1	
65	G5	4	
66	F0	4	
67	K0	3	
68	K0	<del>4</del>	<del>5</del>
69	K0	3	
70	G5	3	
71	F5	4	
72	G	3	
73	K0	8	
74	F0	3	
75	A2	6	
76	A2	4	
77	F0	3	
78	A0	6	
79	Ma	2	
80	A2	3	
81	K	2	
82	K	2	
83	A2	2	

49

Cards Made Out

[[5 column table]]

No.	D.M. No.	R.A.	Dec.	Magn.
	h m s			
56	+29° 229	1 16 23.9	+29 4.9	8.6
57	+29° 239	1 19 13.3	+29 1.6	7.5
58	+29° 251	1 21 48.8	+29 30.7	9.1
59	+28° 242	1 21 24.6	+28 48.5	8.5
60	+28° 244	1 22 1.7	+28 46.9	8.7
61	+28° 249	1 23 11.9	+28 40.0	7.3
62	+28° 246	1 22 11.2	+28 12.3	9.3
63	+27° 236	1 22 3.8	+27 44.4	8.0
64	+28° 251	1 24 48.2	+28 28.5	9.3
65	+28° 253	1 25 10.7	+28 30.9	8.7



66	+29° 258	1 25 9.0	+29 8.2	8.5
67	+28° 257	1 26 41.5	+28 30.4	8.5
68	+28° 259	1 26 54.3	+28 21.6	8.2
69	+28° 267	1 28 30.6	+28 41.7	8.1
70	+28° 271	1 30 10.0	+28 50.4	8.5
71	+29° 279	1 31 29.4	+29 21.3	8.3
72	{29° 280	1 31 42.4	+29 38.9	9.0 superposed? See chart I 29727
72	{29° 281	1 31 44.3	+29 47.8	8.8
73	+29° 286	1 33 27.0	+29 19.3	6.0
74	+29° 288	1 33 56.3	+29 21.0	8.3
75	+28° 282	1 33 55.0	+28 47.2	7.5
76	+28° 281	1 33 43.9	+28 20.6	8.4
77	+28° 280	1 33 5.8	+28 24.9	8.9
78	+27° 277	1 36 42.6	+27 44.1	7.5
79	+28° 292	1 36 55.5	+28 0.9	7.8
80	+27° 271	1 33 40.8	+27 23.8	8.6
81	+27° 270	1 33 3.7	+27 44.5	8.7
82	+27° 266	1 32 9.5	+27 52.0	8.3
83	+27° 264	1 31 53.7	+27 34.9	8.6

Project PHaEDRA - Annie Jump Cannon 32  
 Transcribed and Reviewed by Digital Volunteers  
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December 3, 1911 (cont)

I 37381

[[ 4 column table ]]

No. | Class | Int. | Remark

84	G5	5	
85	K0	6	
86	K2	8	
87	K	2	
88	G5	2	
89	K	3	
90	F8	6	
91	F5	3	
92	G	2	
93	K0	3	
94	K0	5	
95	K0	4	
96	K	2	
97	F2	3	
98	F5	3	
99	K2	4	
100	F	4	
101	K0	6	
102	F0	5	
103	F0	2	
104	A2	3	
105	G	2	
106	K	1	
107	G5	2	
108	G5	[[ <del>6</del> ]] 2 [[ <del>6</del> ]] 6	
109	A3	4	
110	F8	4	
111	K	5	

51

[[5 column table]]

D.M.No. | R.A. | Dec. | Magn.

Cards made out

84	+27° 262	1 31 24.1	+27 22.5	7.8
85	+27° 261	1 31 7.2	+27 1.4	7.2
86	+27° 215	1 13 6.4	+27 58.6	5.0
87	+28° 225	1 14 24.1	+28 5.5	8.2
88	+28° 227	1 14 46.1	+28 26.1	8.5
89	+28° 234	1 16 46.7	+28 5.9	8.2
90	+27° 225	1 17 8.4	+27 48.2	7.7
91	+26° 227	1 15 21.2	+26 53.8	8.5
92	+26° 231	1 16 23.2	+26 49.5	8.5
93	+26° 238	1 18 39.0	+26 48.8	8.0
94	+26° 239	1 18 43.7	+26 29.1	6.8
95	[[ <del>26°</del> ]] +26° [[ <del>228</del> ]] +25° 228   1 14 39.9   +25			

48.6		8.1			
96		+25° 238		1 17 5.7	+25 46.0   8.5
97		+25° 232		1 15 53.6	+25 9.3   8.2
98		+25° 246		1 18 54.9	+25 45.2   8.1
99		+24° 212		1 19 8.2	+24 41.6   7.0
100		+24° 217		1 19 56.2	+24 55.9   7.9
101		+24° 222		1 21 26.9	+24 31.6   6.5
102		+25° 258		1 22 39.8	+25 8.7   7.0
103		+25° 257		1 22 39.6	+25 36.0   8.0
104		+25° 259		1 22 49.9	+25 44.5   8.3
105		+26° 247		1 21 7.2	+26 34.6   8.5
106		+26° 248		1 22 2.5	+26 57.0   8.2
107		+27° 244		1 25 3.2	+27 10.5   8.8
108		+27° 248		1 27 31.4	+27 32.0   7.3
109		+26° 265		1 28 16.1	+26 29.9   8.0
110		+25° 265		1 27 23.1	+25 56.0   7.4
111		+24° 239		1 29 28.2	+24 26.5   7.3

Project PHaEDRA - Annie Jump Cannon 32  
 Transcribed and Reviewed by Digital Volunteers  
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Dec. 3, 1911 (cont)  
I37381

[[4 Columned Table]]

| No | Class | Int | Remark |

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

| 112 | F5 | 7 | |

Time 11:10  
cont. in ~~32, 52~~

53

[[5 Columned Table]]

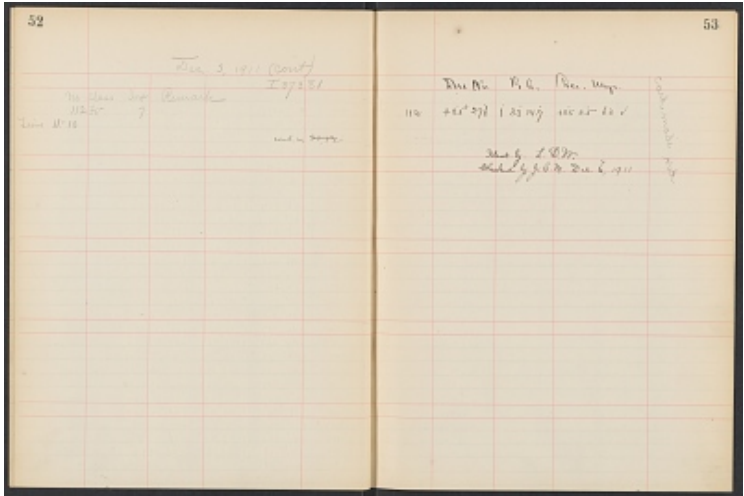
| | DM No. | Class | R.A. | Dec. | Magn. |

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

| 112 | +25° 276 | 1 33 14.7 | +25 0.5 | 6.0 |

Ident. by. L.D.W.  
Checked by J.C.M. Dec ~~6~~ ~~7~~, 1911

cards made out



Project PHaEDRA - Annie Jump Cannon 32  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-30-2022 03:45:05

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Dec. 13, 1911

Time 11:16 I 37387

[4 column table]

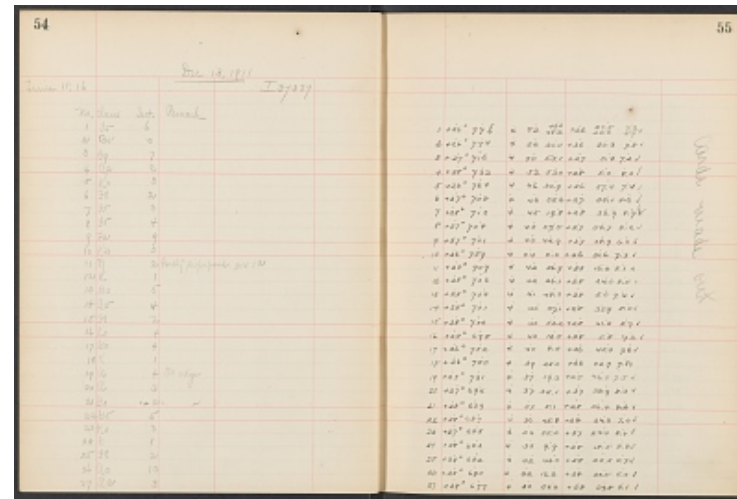
No.	Class	Int.	Remark
1	F5	6	
2	B5	3	
3	B9	7	
4	A2	2	
5	K0	3	
6	F8	2	
7	F5	3	
8	F5	4	
9	F2	9	
10	K2	3	
11	N	2	Partly superposed on 12
12	K	1	
13	B3	5	
14	A5	4	
15	F8	2	
16	K0	4	
17	G0	4	
18	K	1	
19	A	4	on edge
20	A	3	
21	G0	2	
22	G5	5	
23	K0	3	
24	G	1	
25	F8	2	
26	A0	10	
27	A2	3	

55

Cards Made Out

[5 column table]

1	+26° 776 <sup>^</sup> [7]	4 52 48.2 <sup>^</sup> [46.6]	+26 25.6 <sup>^</sup> [27.5]	8.7 <sup>^</sup> [7.2]
2	+26° 774	4 52 21.0	+26 20.3	7.8
3	+27° 716	4 50 53.1	+27 5.4	7.2
4	+28° 732	4 52 53.0	+28 5.0	8.0
5	+26° 764	4 46 34.9	+26 57.4	7.4
6	+27° 708	4 46 52.6	+27 35.1	8.6
7	+28° 713	4 45 19.8	+28 33.9	8.7
8	+27° 704	4 43 57.5	+27 50.7	8.2
9	+27° 701	4 43 44.9	+27 38.9	6.0
10	+26° 759	4 44 0.0	+26 31.6	7.3
11	+28° 707	4 42 26.9	+28 16.4	8.1
12	+28° 706	4 42 26.1	+28 24.0	8.5
13	+28° 704	4 41 48.3	+28 5.0	7.4



14	+28° 701	4 40 57.1	+28 35.9	8.0
15	+28° 700	4 40 53.2	+28 41.3	8.7
16	+28° 698	4 40 12.5	+28 5.8	7.2
17	+26° 752	4 40 8.5	+26 45.4	7.6
18	+26° 750	4 39 22.0	+26 42.7	7.8
19	+25° 731	4 37 19.3	+25 46.0	7.5
20	+27° 694	4 37 32.1	+27 38.9	8.3
21	+28° 689	4 37 5.1	+28 36.4	8.6
22	+28° 687	4 36 45.8	+28 24.6	7.0
23	+27° 688	4 34 35.0	+27 24.4	8.0
24	+28° 683	4 33 9.9	+28 18.5	8.8
25	+28° 682	4 32 42.0	+28 23.3	8.7
26	+28° 680	4 32 16.2	+28 20.5	5.0
27	+28° 677	4 30 34.4	+28 29.8	8.1

Project PHaEDRA - Annie Jump Cannon 32  
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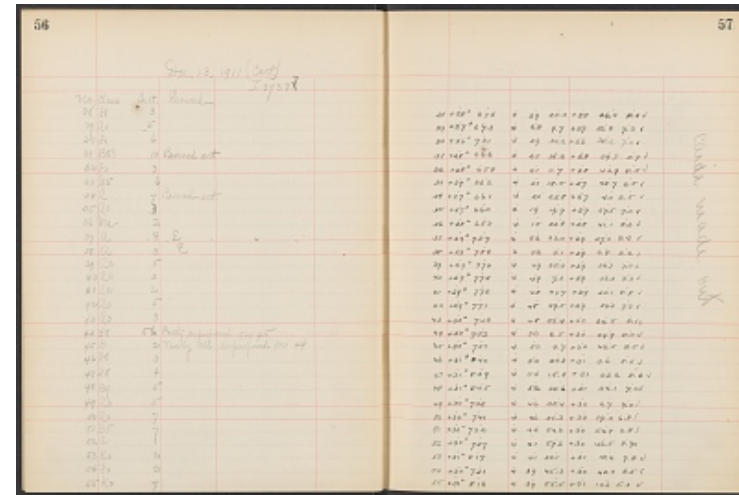
Dec. 13, 1911 (cont.)

I 3738 ~~8~~ 7

[[4 column table]]

No. | Class | Int. | Remark

28	F8	3	
29	A0	5	
30	F0	6	
31	B8?	10	Burned out
32	F0	3	
33	G5	6	
34	A	7	Burned out
35	A0	3	
36	Ma	2	
37	A	3	E
38	A	3	E
39	A2	5	
40	A2	5	
41	A2	2	
42	A0	5	
43	A3	3	
44	F8	<del>6</del>	Partly superposed on 45
45	G	2	Nearly all superposed on 44
46	F8	3	
47	F8	4	
48	B9	5	
49	A0	5	
50	A0	5	
51	G5	7	
52	A	1	
53	K0	2	
54	F0	2	
55	K0	7	



57

Cards Made Out

[[5 column table]]

28	+28° 674	4 29 25.3	+28 26.0	8.3
29	+27° 673	4 28 9.7	+27 36.8	7.3
30	+26° 731	4 29 34.2	+26 38.6	7.0
31	+28° 666	4 25 35.2	+28 39.7	5.7
32	+28° 658	4 21 0.7	+28 43.9	8.5
33	+27° 662	4 21 18.5	+27 48.7	6.5
34	+27° 661	4 20 23.8	+27 4.0	6.5
35	+27° 660	4 19 19.7	+27 4.0	6.5
36	+28° 653	4 15 22.8	+28 41.1	8.0
37	+29° 787	4 52 33.0	+29 27.0	8.4
38	+29° 784	4 52 0.1	+29 6.8	8.2
39	+29° 774	4 49 35.3	+29 36.7	7.0

40	+29° 773	4 49 7.0	+29 36.0	8.3
41	+29° 770	4 48 47.7	+29 20.1	8.8
42	+29° 771	4 48 49.5	+29 54.0	7.7
43	+30° 746	4 48 53.4	+30 24.5	8.1
44	+30° 752	4 50 6.5	+30 49.9	8.0
45	+30° 751	4 50 4.7	+30 46.5	8.5
46	+31° 840	4 50 20.3	+31 3.6	8.3
47	+31° 839	4 50 15.8	+31 22.2	8.0
48	+31° 845	4 52 25.6	+31 34.1	7.0
49	+30° 742	4 46 35.4	+30 6.7	7.0
50	+30° 741	4 46 31.3	+30 19.3	6.8
51	+30° 732	4 42 54.6	+30 54.7	6.8
52	+30° 727	4 41 57.2	+30 46.5	8.7
53	+31° 817	4 41 30.1	+31 18.4	7.8
54	+30° 721	4 39 45.3	+30 42.0	8.5
55	+31° 816	4 39 55.5	+31 10.6	5.3

Project PHaEDRA - Annie Jump Cannon 32  
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 Extracted Aug-30-2022 03:45:05

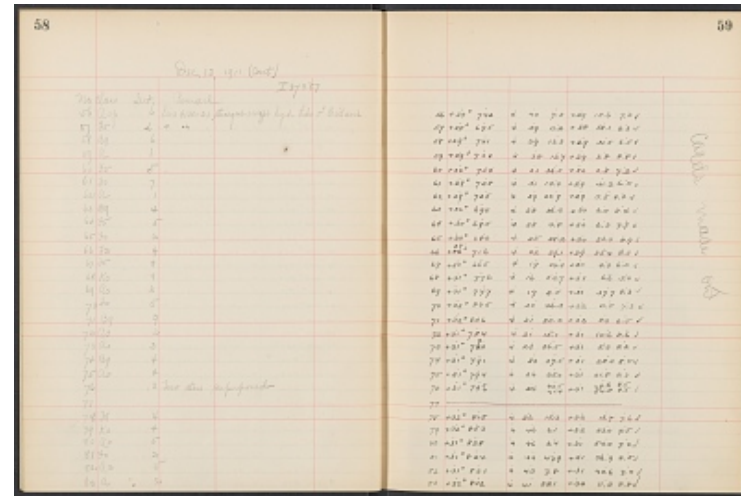
58  
Dec. 13, 1911 (cont.)  
I 37387

[[4 column table]]

No.	Class	Int.	Remark
56	a0p	6	Line 4128-31 strongest except hyd. Like tau <sup>9</sup> Eridani
57	f5	6	
58	B9	6	
59	a	1	
60	F5	5	
61	F0	7	
62	A	1	
63	B9	4	
64	F5	5	
65	F0	2	
66	F2	4	
67	F5	8	
68	K0	8	
69	A0	3	
70	F0	5	
71	B9	9	
72	A3	2	
73	A0	3	
74	B9	4	
75	A0	4	
76		3	Two stars superposed
77			
78	F8	4	
79	K0	4	
80	A0	5	
81	F0	2	
82	A3	5	
83	A	2	

59  
Cards Made Out  
[[5 column table]]

56	+29° 742	4 40 7.3	+29 18.6	7.0
57	+28° 695	4 39 11.2	+28 58.1	6.3
58	+29° 741	4 39 13.3	+29 31.5	6.5
59	+29° 738	4 38 13.7	+29 3.8	8.8
60	+30° 704	4 31 36.0	+30 0.8	7.2
61	+29° 728	4 31 14.4	+29 41.2	6.5
62	+29° 725	4 29 20.9	+29 5.5	8.4
63	+30° 698	4 28 36.3	+30 6.0	8.4
64	+30° 695	4 28 4.8	+30 6.3	7.7
65	30° 686	4 25 38.2	+30 20.0	8.9
66	+ <del>30</del>	<del>4 22 29.1</del>	<del>+29 35.4</del>	<del>8.3</del>
67	+30° 665	4 19 44.4	+30 3.0	6.0
68	+31° 776	4 16 53.7	+31 6.6	5.0
69	+31° 777	4 17 2.5	+31 37.7	8.3
70	+32° 805	4 21 20.3	+32 8.0	6.5
71	+32° 806	4 21 20.3	+32 8.0	6.5
72	+31° 784	4 21 15.1	+31 15.6	8.6
73	+31° 7	<del>8</del>	<del>4 23 26.5</del>	<del>+31 5.3</del>





8.2					
74	+31° 791	4 23 37.5	+31 28.3	8.5	
75	+31° 794	4 24 25.0	+31 21.8	8.3	
76	+31° 796 <sup>^</sup> [5]	4 24 41.4 <sup>^</sup> [40.5]	+31 54.8 <sup>^</sup> [49.6]	8.5 <sup>^</sup> [8.5]	
77					
78	+32° 815	4 26 15.3	+32 16.7	7.6	
79	+32° 853	4 46 6.1	+32 33.0	7.5	
80	+31° 828	4 46 6.4	+31 54.0	7.2	
81	+31° 824	4 44 47.9	+31 56.9	8.5	
82	+31° 821	4 43 7.8	+31 43.6	7.0	
83	+32° 842	4 41 38.1	+32 11.3	8.8	

Project PHaEDRA - Annie Jump Cannon 32  
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60  
Dec. 13, 1911 (cont.)  
I 37387

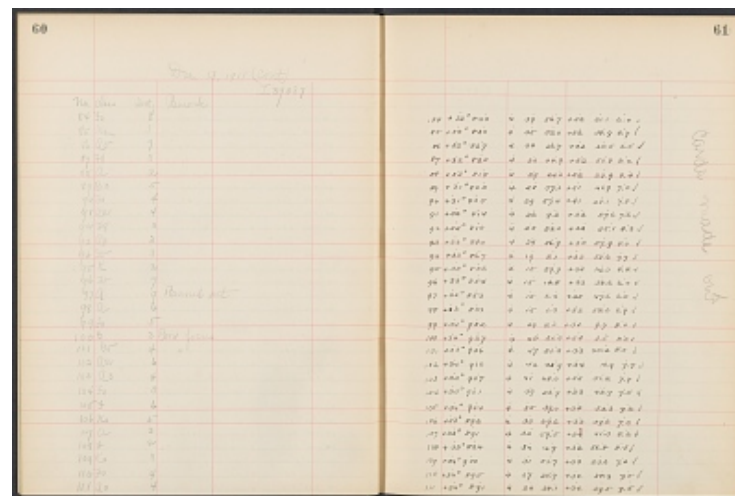
[[4 column table]]

No.	Class	Int.	Remark
84	F0	8	
85	Ma	1	
86	A5	7	
87	F8	3	
88	B3	5	
89	B3	5	
90	F0	4	
91	A2	4	
92	F8	3	
93	A3	3	
94	G5	3	
95	K	2	
96	F5	7	
97	A	9	Burned out
98	A	6	
99	F0	5	
100	G	3	Poor focus
101	G5	4	Poor focus
102	A2	6	
103	A3	4	
105	F	6	
106	K0	5	
107	A	3	
108	F	2	
109	K0	3	
110	F0	4	
111	A0	4	

61  
Cards Made Out

[[5 column table]]

84	+32° 840	4 39 56.7	+32 21.1	6.0
85	+32° 830	4 35 53.0	+32 38.9	8.7
86	+32° 827	4 34 26.7	+32 35.5	6.5
87	+32° 820	4 30 44.9	+32 50.8	8.2
88	+32° 818	4 29 24.0	+32 22.9	8.4
89	+31° 803	4 28 57.1	+31 41.9	7.0
90	+31° 805	4 29 57.4	+31 28.1	7.8
91	+32° 814	4 26 9.2	+32 57.6	7.6
92	+32° 810	4 23 23.0	+32 25.1	8.3
93	+33° 880	4 24 36.9	+33 27.9	8.0
94	+33° 867	4 19 8.1	+33 52.6	7.7
95	+33° 856	4 15 29.9	+33 14.0	8.4
96	+33° 854	4 15 14.8	+33 38.6	6.0
97	+33° 853	4 15 6.4	+33 47.6	6.0
98	+33° 851	4 15 1.3	+33 58.0	6.9
99	+34° 932	4 49 8.0	+34 9.7	8.0
100	+34° 927	4 48 21.3	+34 2.5	8.0
101	+33° 926	4 47 21.3	+33 45.2	8.0
102	+34° 916	4 42 43.9	+34 10.9	7.7
103	+33° 907	4 41 48.0	+33 51.2	7.7



104	+33° 901	4 39 23.9	+33 43.7	7.5
105	+34° 904	4 35 39.0	+34 53.3	7.1
106	+33° 892	4 33 37.6	+33 39.6	7.3
107	+33° 891	4 32 59.5	+3 <del>4</del>	<del>3</del> 41.3
	8.2			
108	+32° 824	4 34 4.9	+32 56.8	8.4
109	+34° 900	4 31 51.7	+34 23.6	7.0
110	+34° 895	4 27 25.7	+34 38.9	7.5
111	+34° 891	4 24 38.1	+34 29.5	7.5

Project PHaEDRA - Annie Jump Cannon 32  
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62  
Dec. 13, 1911 (cont.)  
I 37387

[[4 column table]]  
No. | Class | Int. | Remark  
112 | A2 | 6 | |

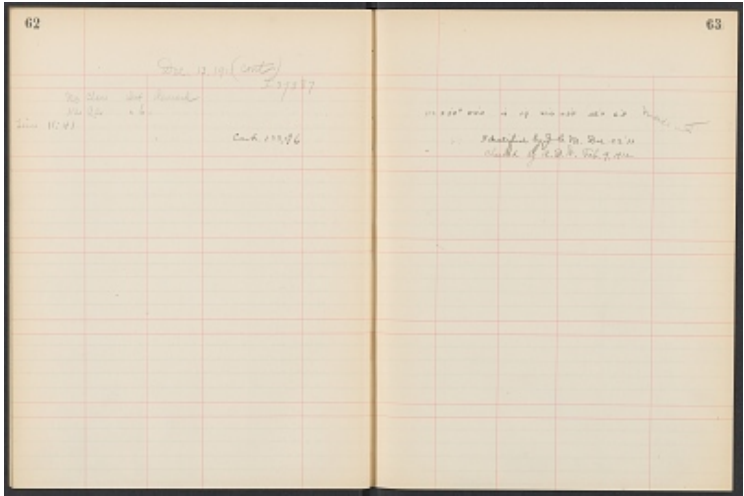
Time 11:41

cont. 133, 96

63  
Made Out

[[5 column table]]  
112 | +34° 883 | 4 19 41.6 | +34 56.4 | 6.8

Identified by J.C.M. Dec. 22, '11  
Checked by A.D.W. Feb. 9, 1912.



Project PHaEDRA - Annie Jump Cannon 32  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-30-2022 03:45:05

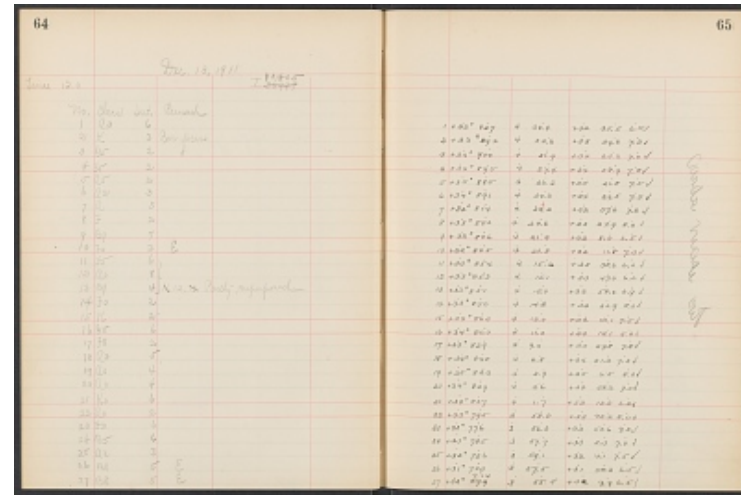
64  
Dec. 13, 1911  
Time 12.0 I ~~36997~~ 10405

[[4 column table]]

No.	Class	Int.	Remark
1	A3   6		
2	K   3		Poor focus
3	G5   2		Poor focus
4	F5   2		
5	A5   2		
6	A2   3		
7	A   3		
8	F   2		
9	B9   7		
10	F0   2		E
11	F5   6		}
12	A0   8		}
13	B9   4		<del>11, 13</del> Partly superposed
14	F0   2		
15	K   2		
16	G5   6		
17	F8   2		
18	A3   5		
19	A0   4		
20	A0   4		
21	K0   6		
22	A0   2		
23	F2   6		
24	B5   6		
25	A2   3		
26	B8   5		E
27	B8   5		E

65  
[[5 column table]]  
Cards Made Out

1	+32° 827	4 34.4	+32 35.5	6.5
2	+33° 892	4 33.6	+33 39.6	7.3
3	+34° 900	4 31.9	+34 23.6	7.0
4	+34° 895	4 27.4	+34 38.9	7.5
5	+35° 885	4 26.2	+35 21.8	7.5
6	+34° 891	4 24.6	+34 29.5	7.5
7	+32° 814	4 2 <del>[[strikethrough]]</del> 5 <del>[[/strikethrough]]</del>	6.2   +32 57.6	7.6
8	+33° 880	4 24.6	+33 27.9	8.0
9	+32° 806	4 21.3	+32 8.0	6.5
10	+32° 805	4 20.8	+32 11.8	7.3
11	+33° 854	4 15.2	+33 38.6	6.0
12	+33° 853	4 15.1	+33 47.6	6.0
13	+33° 851	4 15.0	+33 58.0	6.9
14	+33° 850	4 14.6	+33 30.9	8.0
15	+34° 863	4 12.0	+34 13.1	7.5
16	+34° 860	4 11.0	+34 13.1	5.0
17	+33° 829	4 9.0	+33 29.8	7.8
18	+34° 848	4 6.8	+34 31.3	7.3
19	+35° 823	4 3.9	+35 6.5	8.0



20	+34° 829	4 2.6	+34 58.2	7.0
21	+33° 807	4 1.7	+33 12.3	6.2
22	+33° 795	3 58.8	+33 43.2	8.0
23	+33° 776	3 56.3	+33 50.6	7.3
24	+33° 785	3 57.7	+33 3.3	7.0
25	+32° 726	3 59.1	+32 4.1	7.5
26	+31° 703	3 57.5	+31 58.2	6.5
27	+32° <del>879</del>	<del>714</del>	3 55.5	+32 9.9
6.5				

Project PHaEDRA - Annie Jump Cannon 32  
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Dec. 13, 1911 (cont.)

1 ~~10405~~

[4 column table]

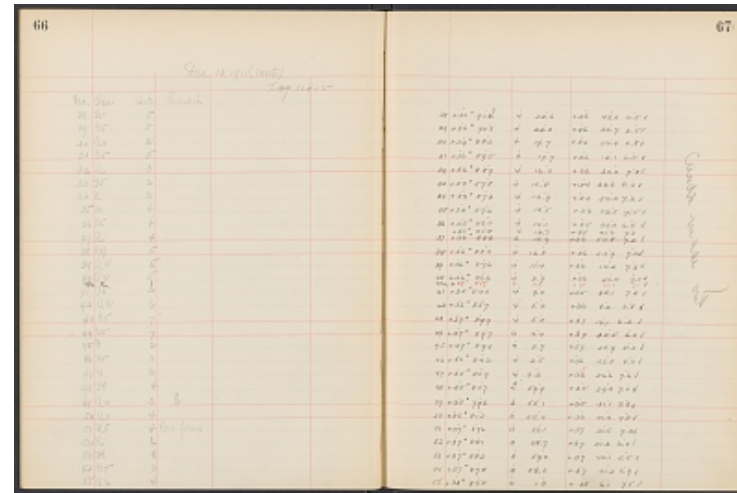
No.	Class	Int.	Remark
28	F5	5	
29	G5	5	
30	A0	5	
31	G5	5	
32	A	3	
33	F5	2	
34	K	2	
35	F0	4	
36	G5	4	
37	A	4	
38	B9	5	
39	A2	5	
40	A2	5	
40a	K	1	
41	F5	2	
42	A2	6	
43	G5	7	
44	G5	7	
45	G	2	
46	F5	3	
47	G	2	
48	F8	4	
49	A0	3	E
50	A0	4	
51	A5	4	Poor focus
52	K	6	
53	F8	8	
54	G5	2	
55	A2	4	

67

Cards Made Out

[5 column table]

28	+36° 90	<del>8</del>	7	4 22.6	+36 43.6	6.5
29	+36° 903	4 22.3	+36 26.7	6.5		
30	+34° 883	4 19.7	+34 56.4	6.8		
31	+36° 895	4 17.7	+36 12.1	6.5		
32	+36° 889	4 16.0	+36 20.0	7.3		
33	+34° 878	4 16.8	+34 23.6	8.0		
34	+34° 874	4 14.9	+34 54.2	7.2		
35	+34° 872	4 14.5	+34 53.5	7.5		
36	+35° 860	4 14.1	+35 33.0	6.5		
37	<del>+36° 888</del>	4 15.9	+36 55.8	7.8	<del>7.8</del>	
	+35° 858	4 13.7	+35 41.6	7.3		
38	+36° 880	4 12.8	+36 33.9	7.0		
39	+36° 876	4 11.4	+36 14.2	7.3		
40	+36° 866	4 8.9	+36 30.5	7.5		
40a	+35° 849	4 11.2	+35 27.0	8.0		
41	+35° 840	4 9.0	+35 38.1	7.3		
42	+36° 857	4 5.4	+36 8.2	6.8		



43	+37° 899	4 5.3	+37 10.1	6.2
44	+37° 897	4 4.4	+37 35.5	6.0
45	+37° 894	4 2.7	+37 20.9	8.0
46	+36° 842	4 2.5	+36 22.8	8.3
47	+35° 809	4 0.2	+3 <del>6</del>	<del>5</del> 34.6   7.6
48	+35° 807	<del>2</del>	<del>3</del> 59.9	+35 39.3   7.0
49	+35° 796	3 55.1	+35 31.1	7.3
50	+36° 813	3 55.4	+36 41.4	7.8
51	+37° 876	3 56.1	+37 21.5	7.3
52	+37° 881	3 58.7	+37 21.2	6.0
53	+37° 882	3 59.0	+37 40.1	5.5
54	+37° 878	3 58.0	+37 41.2	6.9
55	+38° 850	4 1.0	+38 6.1	7.5

Project PHaEDRA - Annie Jump Cannon 32  
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Dec. 13, 1911 (cont.)  
10405

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

56	F0	6	
57	F0	4	
58	G	3	
59	F0	2	
60	K	2	
61	F0	4	
62	F2	4	
63	A	1	
64	F0	6	
65	F0	3	
66	A0	3	
67	B8	7	
68	F8	3	
69	G	2	Poor focus
70	F8	5	

Time 12:14  
71 | K0 | 8 | Burned out  
[[~~72~~]]

Spectra rather wide and focus not very good. Faint stars not well seen.

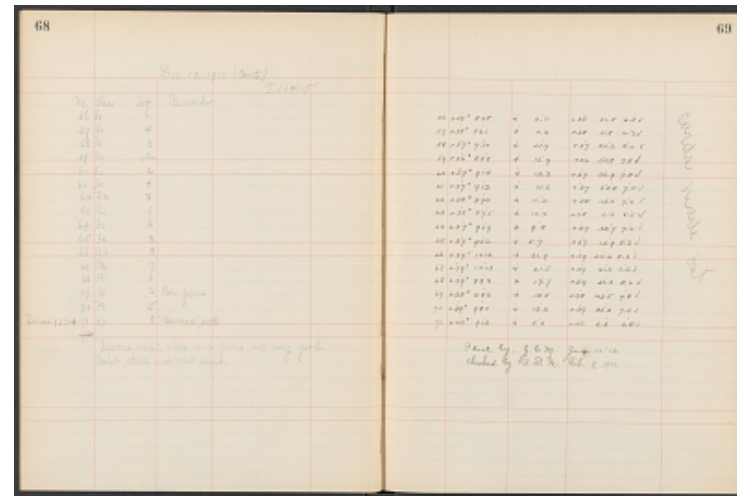
69

Cards made Out

[[5 column table]]

56	+38° 848	4 0.6	+38 51.8	6.8
57	+38° 861	4 4.4	+38 5.8	6.7
58	+37° 930	4 21.9	+37 20.2	8.0
59	+36° 888	4 15.9	+36 55.8	7.8
60	+37° 914	4 13.2	+37 36.9	7.8
61	+37° 912	4 11.6	+37 53.8	7.5
62	+38° 876	4 11.2	+38 13.0	7.4
63	+38° 875	4 10.4	+38 0.4	8.5
64	+37° 909	4 9.8	+37 38.7	7.0
65	+37° 906	4 8.7	+37 12.9	8.3
66	+39° 1016	4 21.9	+39 35.2	8.3
67	+39° 1013	4 21.5	+39 41.6	6.6
68	+39° 994	4 17.7	+39 21.3	8.0
69	+38° 886	4 15.5	+38 42.5	7.8
70	+39° 980	4 12.2	+39 35.3	7.4
71	+40° 912	4 5.0	+40 6.3	4.8

Ident. by J.C.M. Jan 11, '12  
Checked by A.D.W. Feb. 9, 1912



Project PHaEDRA - Annie Jump Cannon 32  
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Dec. 1 ~~3~~ ~~4~~, 1911

Time 12.16 I 36997

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

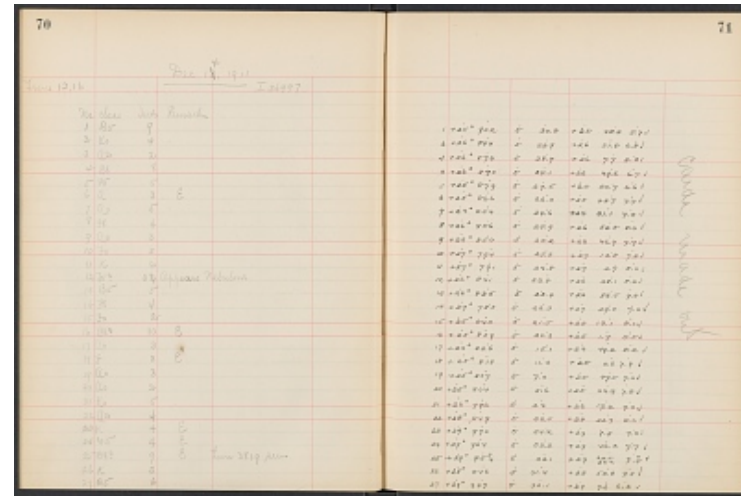
1	B5	9	
2	K0	4	
3	A2	2	
4	B8	8	
5	F5	5	
6	A	3	E
7	A0	5	
8	F8	4	
9	A3	3	
10	F0	3	
11	K	2	
12	F5?	<del>2</del> <del>3</del>	Appears nebulous
13	B5	5	
14	F8	4	
15	F0	2	
16	B8?	10	E
17	A0	3	
18	F	3	E
19	A0	3	
20	A0	2	
21	K0	5	
22	A2	4	
23	K	4	E
24	G5	4	E
25	B8?	9	E Line 3819 seen
26	K	3	
27	B5	6	

71

Cards Made Out

[5 column table]

1	+25° 902	5 30.8	+25 48.8	5.7
2	+26° 884	5 29.9	+26 31.8	6.8
3	+26° 876	5 28.7	+26 7.7	8.3
4	+26° 870	5 28.1	+26 49.6	6.7
5	+25° 879	5 27.5	+25 50.7	6.6
6	+25° 866	5 26.3	+25 43.7	7.7
7	+24° 854	5 24.6	+24 31.1	7.0
8	+26° 856	5 25.9	+26 52.5	8.0
9	+26° 850	5 25.2	+26 46.7	7.7
10	+27° 794	5 25.3	+27 13.8	7.8
11	+27° 791	5 24.8	+27 3.7	8.0
12	+26° 841	5 23.8	+26 38.1	8.2
13	+26° 835	5 23.4	+26 52.5	7.3
14	+27° 783	5 22.3	+27 39.4	7.3
15	+25° 843	5 21.5	+25 13.1	8.1



16	+25° 839	5 20.3	+25 1.7	5.5
17	+24° 826	5 15.1	+24 49.2	8.2
18	+25° 818	5 11.4	+25 0.6	7.9
19	+25° 807	5 7.0	+25 47.5	7.3
20	+25° 804	5 5.6	+25 44.9	7.8
21	+26° 796	5 3.4	+26 17.2	7.0
22	+28° 849	5 32.5	+28 22.7	8.0
23	+29° 970	5 34.2	+29 7.8	7.0
24	+29° 964	5 33.2	+29 46.3	7.7
25	+29° 954 <sup>^</sup> [[3]]	5 32.1	+29 25.2 <sup>^</sup> [[24.5]]	7.5 <sup>^</sup> [[7.0]]
26	+28° 846	5 31.4	+28 53.8	7.5
27	+29° 947	5 30.1	+29 7.6	6.2

Project PHaEDRA - Annie Jump Cannon 32  
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Dec, 14, 1911 (Cont)

I36997

[[four column chart]]

No. | Class | Int. | Remark

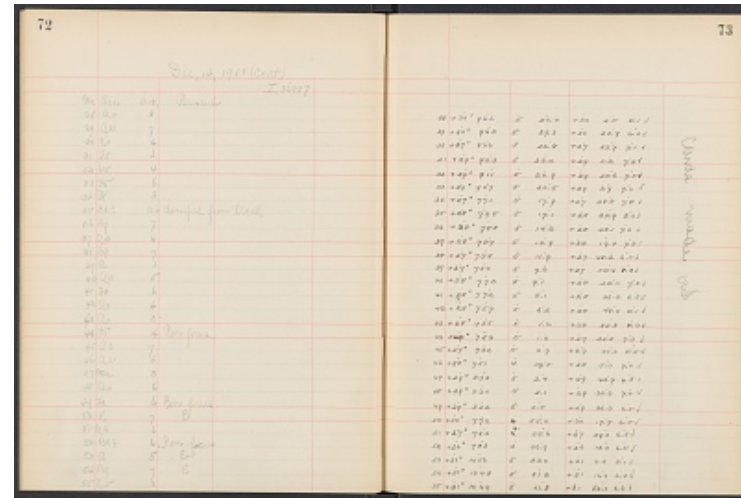
28	A0	3	
29	A2	7	
30	K0	4	
31	F5	3	
32	G5	4	
33	F5	6	
34	F8	3	
35	B8?	10+	Classified from trail
36	B9	7	
37	A3	4	
38	B9	7	
39	A	1	
40	A3	5	
41	F0	6	
42	A0	4	
43	A0	3	
44	F5	4	Poor Focus
45	A3	7	
46	A2	4	
47	Ma	3	
48	A0	6	
49	F8	6	Poor focus
50	K	7	E
51	A2	6	
52	B8?	6	Poor focus
53	A	5	E
54	B9	7	E
55	K5	3	

73

Cards Made Out

[[5 column table]]

28	+30° 966	5 30.0	+30 3.5	8.1
29	+30° 963	5 29.3	+30 23.9	6.0
30	+27° 806	5 26.8	+27 33.7	7.1
31	+29° 923	5 23.0	+29 5.2	7.8
32	+29° 911	5 20.9	+29 25.6	7.5
33	+29° 909	5 20.5	+29 3.9	7.0
34	+27° 771	5 17.9	+27 28.8	7.8
35	+28° 795	5 17.1	+28 28.9	2.0
36	+28° 788	5 14.2	+28 48.1	7.0
37	+28° 787	5 13.9	+28 19.4	7.3
38	+27° 758	5 11.9	+27 48.2	6.5
39	+27° 750	5 9.6	+27 55.4	8.3
40	+28° 773	5 9.1	+28 38.0	7.3
41	+28° 772	5 8.1	+28 46.3	6.5
42	+28° 757	5 2.2	+28 48.4	8.1



43	+28° 755	5 1.6	+28 32.8	8.3
44	+27° 734	5 1.0	+27 22.3	7.3
45	+27° 732	5 0.7	+27 51.0	5.5
46	+28° 751	4 59.5	+28 5.0	7.0
47	+29° 833	5 2.4	+29 43.9	6.5
48	+29° 830	5 2.1	+29 32.6	7.0
49	+29° 822	5 0.5	+29 36.3	6.5
50	+30° 772	4 55.0	+30 17.7	6.5
51	+27° 723	<del>3</del>	4 55.6	+27 29.3   6.5
52	+26° 783	4 56.9	+26 13.4	6.5
53	+31° 1056	5 32.0	+31 6.3	8.1
54	+31° 1048	5 31.2	+31 16.4	6.4
55	+31° 1049	5 31.3	+31 50.0	6.6

Project PHaEDRA - Annie Jump Cannon 32  
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74  
Dec. 13, 1911 (Cont)  
I 36997

[[4 column table]]

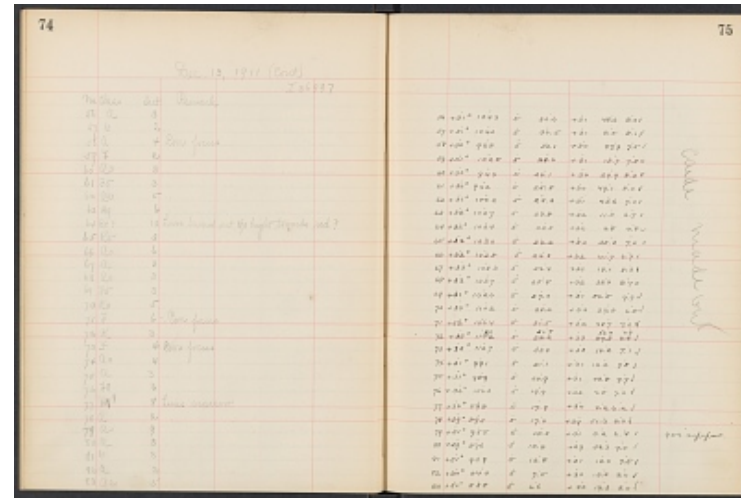
No.	Class	Int.	Remark
56	A   3		
57	G   2		
58	A   4	Poor focus	
59	F   2		
60	A3   3		
61	F5   3		
62	A2   5		
63	B9   6		
64	B5?	10	Lines burned out. H beta bright towards red?
65	K5   3		
66	A0   6		
67	A   3		
68	A0   3		
69	F5   3		
70	K0   5		
71	F   6	Poor focus	
72	K   3		
73	F   4	Poor focus	
74	A0   4		
75	A   3		
76	F8   6		
77	B	<del>8</del>   <del>9</del>	Lines narrow
78	A   2		
79	A   9		
80	A   3		
81	G   3		
82	A   2		
83	A2   5		

75

Cards Made Out

[[5 column table]]

56	+31° 1043	5 30.6	+31 48.6	8.0
57	+31° 1040	5 30.5	+31 8.5	8.1
58	+30° 968	5 30.1	+30 47.9	7.5
59	+31° 1025	5 28.0	+31 13.7	7.8
60	+30° 944	5 26.1	+30 29.9	8.2
61	+30° 942	5 25.8	+30 49.1	8.0
62	+31° 1003	5 23.6	+31 45.6	7.0
63	+32° 1027	5 23.8	+32 11.3	6.7
64	+32° 1024	5 23.3	+32 4.8	4.8
65	+32° 1030	5 24.2	+32 38.3	7.0
66	+32° 1028	5 24.0	+32 41.7	6.7
67	+33° 1083	5 24.4	+33 18.1	8.3
68	+32° 1037	5 25.8	+32 38.4	8.7
69	+31° 1020	5 27.0	+31 54.5	7.7
70	+33° 1102	5 28.2	+33 27.8	6.8
71	+32° 1064	5 31.5	+32 48.7	7.0



72 | +33° 11 ~~02~~ | 20 | 5 ~~5~~  
 28.2 ~~31.7~~ | +33 ~~27.8~~ | 6.8  
~~50.0~~ | 7.9  
 73 | +33° 1127 | 5 33.4 | +33 14.2 | 7.1  
 74 | +31° 991 | 5 21.1 | +31 10.0 | 7.8  
 75 | +31° 989 | 5 20.9 | +31 40.8 | 7.7  
 76 | +32° 1003 | 5 19.9 | +32 4.8 | 7.4  
 77 | +30° 898 | 5 17.9 | +30 4.2 | 6.2  
 78 | +29° 893 | 5 17.0 | +29 51.3 | 8.0  
 79 | +31° 955 | 5 15.3 | +31 0.2 | 6.4 954 superposed  
 80 | +29° 876 | 5 13.8 | +29 34.3 | 7.5  
 81 | +31° 939 | 5 12.8 | +31 13.0 | 7.5  
 82 | +30° 844 | 5 7.5 | +30 13.3 | 9.0  
 83 | +30° 838 | 5 6.6 | +30 19.3 | 8.0

Project PHaEDRA - Annie Jump Cannon 32  
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Dec. 13, 1911 (cont.)

I 36997

[[4 column table]]

No. | Class | Int. | Remark

84	A0	3	
85	K0	5	
86	A0	4	
87	F0	5	
88	K0	4	
89	K0	4	
90	F5?	4	Poor focus
91	G5	3	
92	A0	3	
93	A	3	
94	F	2	
95	K	1	

Time 12: ~~[[striketrough]]~~ 2 ~~[[striketrough]]~~ 36

96	1	A5	
97	2	F5	

77

Cards Made Out

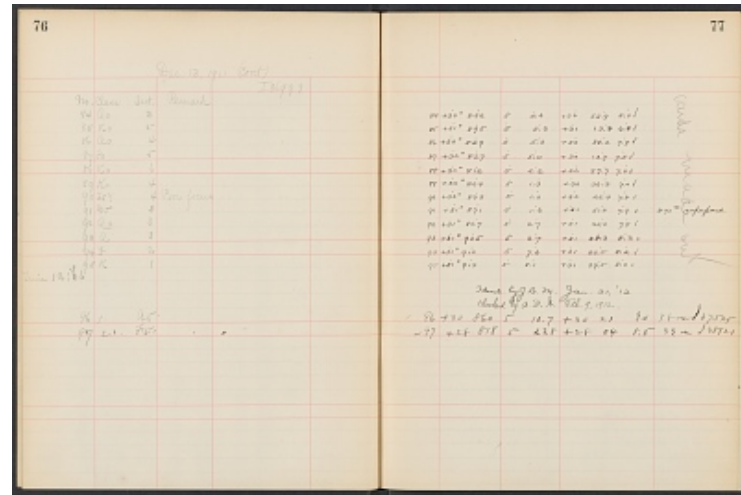
[[5 column table]]

84	+30° 832	5 5.6	+30 52.9	8.0	[[checkmark]]
85	+31° 895	5 5.3	+31 13.8	6.8	[[checkmark]]
86	+30° 829	5 5.3	+30 30.2	7.9	[[checkmark]]
87	+30° 827	5 5.0	+30 13.7	7.5	[[checkmark]]
88	+30° 812	5 2.2	+30 37.7	7.0	[[checkmark]]
89	+30° 804	5 1.3	+30 36.3	7.0	[[checkmark]]
90	+30° 803	5 1.0	+30 23.4	7.8	[[checkmark]]
91	+31° 871	5 1.6	+31 51.0	7.9	[[checkmark]] 871 a superposed
92	+31° 867	5 0.7	+31 45.0	7.8	[[checkmark]]
93	+31° 905	5 6.7	+31 38.3	8.3	[[checkmark]]
94	+31° 910	5 7.6	+31 22.5	8.2	[[checkmark]]
95	+31° 914	5 8.1	+31 39.5	8.0	[[checkmark]]

Ident. by J.C.M. Jan. 31, '12

Checked by A.D.W. Feb. 9, 1912

[[checkmark]] 96	+30° 860	5 10.7	+30 21	9.0 18 on I 37525
[[checkmark]] 97	+28° 818	5 23.8	+28 14	8.5 39 on I 38921



78

Time ~~10~~ 9:43

Dec. 14, 1911

B8586

[4 column chart]

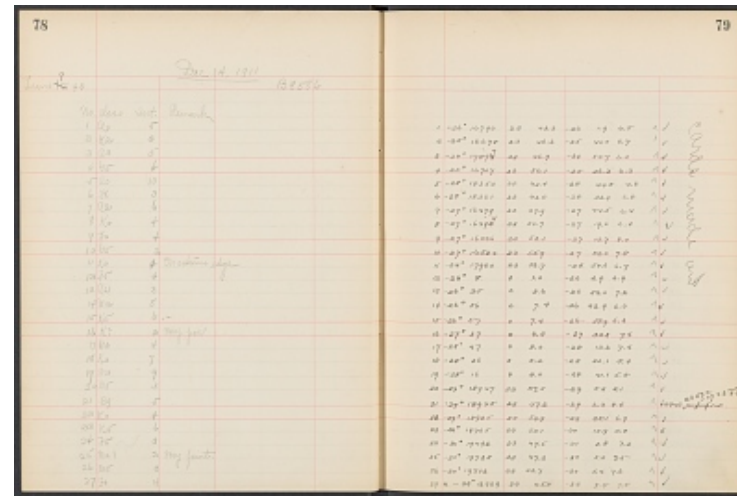
No.	Class	Int.	Remark
1	A0	5	
2	K2	3	
3	A3	5	
4	G5	4	
5	A0	10	
6	F8	3	
7	A2	6	
8	K0	4	
9	F0	4	
10	G5	2	
11	K0	4	On extreme edge
12	F5	4	
13	A2	3	
14	Ma	5	
15	K5	6	
16	K?	2	very poor
17	G0	4	
18	K0	7	
19	F2	9	
20	G5	3	
21	B9	5	
22	K0	4	
23	K5	6	
24	F5	3	
25	Ma?	2	Very faint.
26	G5	3	
27	F0	4	

79

cards made out

[5 column chart]

1	-26° 16796	23 43.3	-26 1.9	6.5
2	-25° 16678	23 46.2	-25 41.0	6.7
3	-24° 1789	<del>8</del>	<del>7</del>	23 46.9   -24 55.7   6.3
4	-25° 16707	23 50.1	-25 26.2	6.3
5	-28° 18353	23 42.4	-28 49.8	4.6
6	-28° 18361	23 42.8	-28 32.3	6.8
7	-27° 16479	23 47.9	-27 44.5	6.4
8	-27° 1649	<del>3</del>	<del>4</del>	23 50.7   -27 19.0   6.4
9	-27° 16506	23 53.1	-27 13.7	8.0



10	-27°	16522	23 55.9	-27 50.0	7.8
11	-24°	17960	23 56.7	-24 50.6	6.7
12	-26°	8	0 1.0	-26 2.9	6.9
13	-26°	35	0 3.6	-26 34.0	7.2
14	-26°	56	0 7.4	-26 42.9	6.0
15	-26°	57	0 7.4	-26 58.9	6.3
16	-27°	37	0 6.3	-27 33.3	7.4
17	-28°	47	0 8.0	-28 13.2	7.4
18	-28°	26	0 5.2	-28 30.1	5.4
19	-28°	16	0 3.0	-28 41.1	5.5
20	-29°	18947	23 57.5	-29 5.3	8.1
21	-29°	18945	23 57.2	-29 6.3	8.4
[[right margin]] 8946 ^ 23 57.2 -29 4.6 magn. 8.6 [[/right margin]]					
22	-29°	18925	23 54.9	-29 25.1	6.9
23	-30°	19765	23 53.1	-30 10.9	5.8
24	-31°	19492	23 47.5	-31 2.8	7.2
25	-30°	19728	23 47.2	-30 5.0	7.5
26	-30°	19702	23 43.7	-30 5.4	7.6
27	*-33°	16729	23 45.0	-33 7.5	7.5

Project PHaEDRA - Annie Jump Cannon 32  
 Transcribed and Reviewed by Digital Volunteers  
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Dec. 14, 1911 (cont.)

B 8586

[[4 column table]]

No. | class | Int. | Remark |

28	K0	5	
29	A	6	Two spectra superposed southern hyd. lines strong
30	A	4	Superposed m 29.
31	F5	5	
32	F0	4	
33	A	2	
34	B3	10	Burned out
35	A0	2	
36	B5	7	
37	A0	8	
38	A	4	partly superposed on 37
39	A2	3	
40	A0	4	
41	A	3	
42	F5	4	
43	K0	4	
44	K0	8	
45	K0	3	
46	K0	6	
47	F5	3	
48	K0	6	
49	B9	8	
50	Ma	3	
51	K0	8	

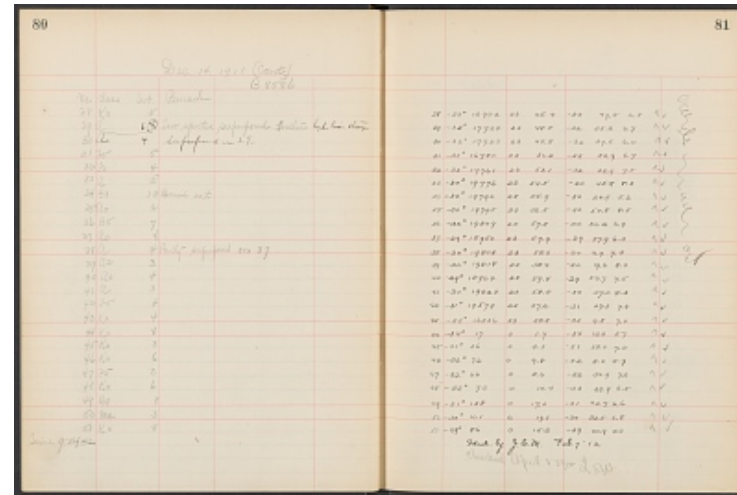
Time: 9:54 ~~52~~

81

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

[[5 column chart]]

28	-33° 16732	23 45.4	-33 49.5	6.8 ^	[[checkmark]]
29	-32° 17724	23 48.8	-32 35.2	6.7 ^	[[checkmark]]
30	-32° 17720	23 48.8	-32 37.5	6.0 ^	[[checkmark]]
31	-33° 16780	23 51.2	-33 52.9	6.7 ^	[[checkmark]]
32	-32° 17761	23 53.1	-32 22.9	7.5 ^	[[checkmark]]
33	-30° 19776	23 54.5	-30 45.8	8.3 ^	[[checkmark]]
34	-30° 19790	23   55.9	-30   24.9	5.2 ^	[[checkmark]]
35	-30° 19795	23 56.5	-30 50.8	8.5 ^	[[checkmark]]
36	-30° 19809	23 57.8	-30 50.2	6.9 ^	[[checkmark]]
37	-29° 18950	23 57.9	-29 57.9	6.3 ^	[[checkmark]]
38	-30° 19813	23 58.0	-30 4.9	7.4 ^	[[checkmark]]
39	-30° 19818	23 58.4	-30 19.6	8.0 ^	[[checkmark]]
40	-29° 18964	23 59.8	-29 50.7	7.5 ^	[[checkmark]]
41	-30° 19820	23 58.5	-30 57.0	8.3 ^	[[checkmark]]



42	-31°	19578	23 57.2	-31 47.8	7.3	^[[checkmark]]
43	-33°	16836	23 58.8	-33 9.8	7.0	^[[checkmark]]
44	-34°	17	0 1.7	-34 13.4	5.7	^[[checkmark]]
45	-31°	36	0 4.3	-31 58.0	7.0	^[[checkmark]]
46	-32°	72	0 9.8	-32 8.0	5.9	^[[checkmark]]
47	-32°	66	0 8.6	-32 50.9	7.6	^[[checkmark]]
48	-33°	73	0 10.4	-33 22.9	6.5	^[[checkmark]]
49	-31°	138	0 17.0	-31 42.7	6.6	^[[checkmark]]
50	-30°	101	0 17.1	-30 32.5	6.8	^[[checkmark]]
51	-29°	86	0 15.3	-29 40.9	5.3	^[[checkmark]]

Ident. by J.C.M. Feb. 7, '12  
 Checked April 1, 1912 L.A.W.

Project PHaEDRA - Annie Jump Cannon 32  
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Dec. 14, 1911

Time 10. ~~00~~ 15  
B 12013

[[4 column table]]

No. | Class | Int. | Remark

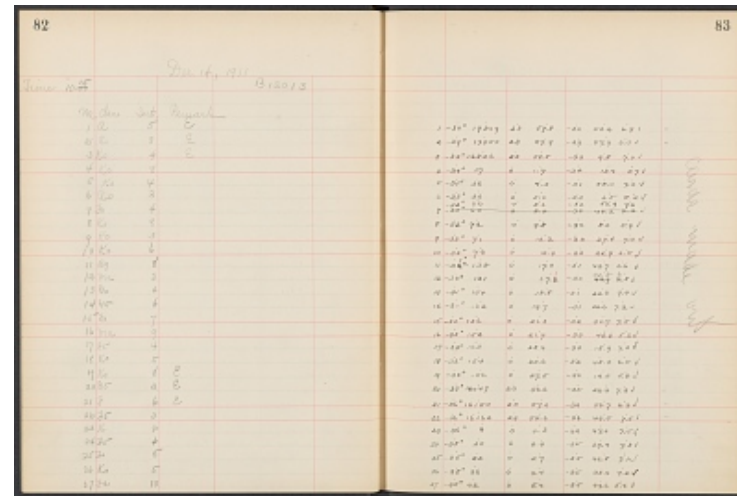
1	A	5	E
2	A	8	E
3	K0	4	E
4	K0	8	
5	K0	4	
6	A0	3	
7	F0	4	
8	K0	8	
9	K0	3	
10	K0	6	
11	B9	8	
12	Ma	3	
13	G0	4	
14	G5	4	
15	F0	7	
16	Ma	9	
17	F5	4	
18	K0	5	
19	K0	8	E
20	G5	3	E
21	F	6	E
22	F5	3	
23	K	2	
24	F5	4	
25	F0	5	
26	K0	5	
27	F2	10	

83

Cards Made Out

[[5 column table]]

1	-30° 19809	23 57.8	-30 50.2	6.9
2	-29° 19850	23 57.9	-29 57.9	6.3
3	-33° 16836	23 58.8	-33 9.8	7.0
4	-34° 17	0 1.7	-34 13.4	5.7
5	-31° 36	0 4.3	-31 58.0	7.0
6	-33° 36	0 5.0	-33 6.5	8.2
7	<del>[[strikethrough]] -33° 60</del>	<del>0 8.4</del>	<del>-33 44.2</del>	<del>8.4</del> <del>[[strikethrough]] -32°</del>
66	0 8.6	-32 50.9	7.6	
8	-32° 72	0 9.8	-32 8.0	5.9
9	-33° 71	0 10.2	-33 27.4	7.3



10	-33° 73	0 10.4	-33 22.9	6.5
11	-3 <del>1</del>	<del>2</del>	1° 138	0 17.0   -31 42.7   6.6
12	-30° 101	0 17.	<del>2</del>	1   -30
	<del>43.9</del>	8.8 <del>32.5</del>	6.8	
13	-31° 154	0 18.8	-31 22.6	7.4
14	-31° 162	0 19.7	-31 26.6	7.2
15	-32° 136	0 21.3	-32 30.7	7.5
16	-33° 152	0 21.7	-33 42.2	5.2
17	-33° 163	0 23.4	-33 15.9	7.4
18	-32° 154	0 23.6	-32 48.3	6.5
19	-30° 156	0 27.5	-30 14.5	5.8
20	-35° 16047	23 56.6	-35 26.4	7.3
21	-36° 16150	23 57.0	-36 56.7	6.8
22	-36° 16162	23 58.6	-36 43.5	7.5
23	-36° 4	0 0.3	-36 47.0	7.5
24	-35° 20	0 2.4	-35 29.4	7.3
25	-35° 22	0 2.7	-35 46.8	7.1
26	-35° 36	0 4.4	-35 33.4	7.2
27	-35° 42	0 5.4	-35 49.6	5.4

Project PHaEDRA - Annie Jump Cannon 32  
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84

Dec 14, 1911 (Cont)

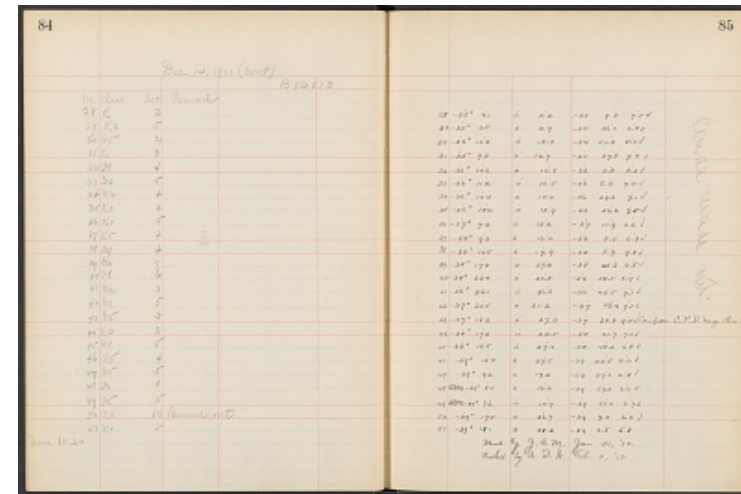
B 12013

[[4 column table]]

No. | Class | Int. | Remark

28	K	2	
29	K2	5	
30	G5	2	
31	K	3	
32	F8	4	
33	G0	5	
34	Ma	4	
35	K0	3	
36	K0	5	
37	K5	4	
38	B9	4	
39	G0	7	
40	F8	6	
41	Ma	3	
42	G0	5	
43	G5	3	
44	K2	3	
45	G0	5	
46	A5	4	
47	G5	5	
48	F0	8	
49	F5	5	
50	A0	10	Burned out
51	K0	5	

Time 10:30



85

Cards Made Out

[[5 column table]]

28	-35° 41	0 5.2	-35 9.3	7.5
29	-35° 65	0 8.7	-35 36.0	6.4
30	-34° 104	0 15.3	-34 51.4	8.0
31	-35° 98	0 14.7	-35 37.8	7.4
32	-36° 106	0 15.3	-36 2.8	8.3
33	-36° 112	0 16.5	-36 5.2	7.5
34	-36° 104	0 15.0	-36 29.6	7.1
35	-36° 100	0 13.9	-36 36.0	7.5
36	-37° 74	0 12.2	-37 11.9	6.6
37	-38° 93	0 16.6	-38 5.5	6.9
38	-38° 105	0 17.9	-38 5.9	7.8
39	-35° 170	0 27.6	-35 40.3	6.5
40	-34° 224	0 33.8	-34 38.5	6.7



41	-36° 241	0 36.6	-36 42.5	7.1	
42	-37° 182	0 31.2	-37 58.4	7.1	
43	-37° 182	0 27.3	-37 28.8	9.5	Compare C.P.D. magn. in there 8.2
44	-38° 174	0 28.5	-38 40.7	7.0	
45	-38° 165	0 27.4	-38 48.2	6.8	
46	-39° 128	0 27.5	-39 22.5	8.0	
47	-39° 92	0 19.2	-39 58.0	6.8	
48	CDM -39° 83	0 16.6	-39 57.3	6.6	
49	CDM -39° 72	0 14.7	-39 56.0	6.7	
50	-39° 175	0 36.7	-39 9.0	6.0	
51	-39° 181	0 38.2	-39 6.5	5.8	

Ident. by J.C.M. Jan. 31, '12  
 Checked by A.D.W. Feb. 2, '12

Project PHaEDRA - Annie Jump Cannon 32  
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Dec. 14, 1911

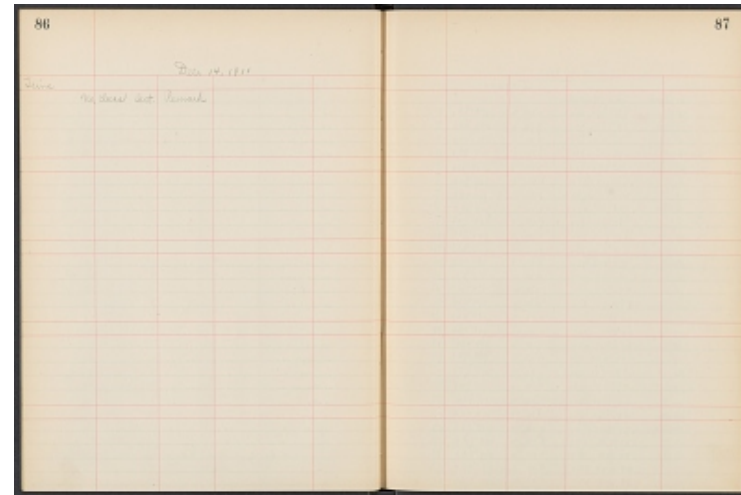
Time

[[4 column table]]

No. | Class | Int. | Remark

87

[[no entries]]



Project PHaEDRA - Annie Jump Cannon 32  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-30-2022 03:45:05

88

Dec. 19, 1911

I 37377

Time 10.22

[4 column chart]

No. | Class | Int. | Remarks

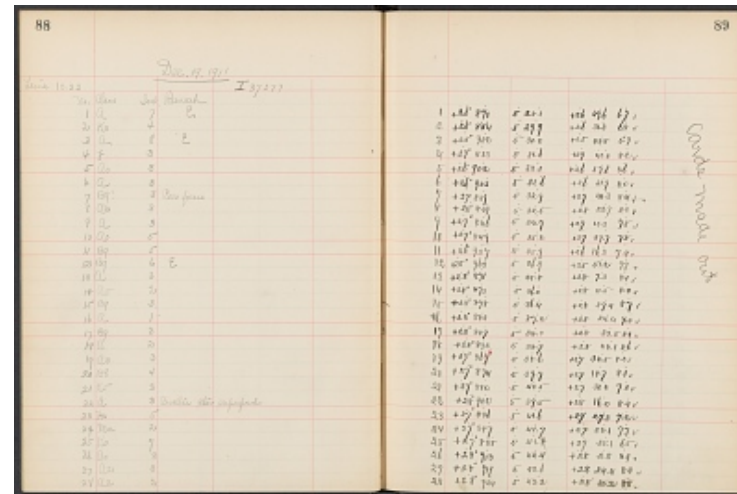
1	A	7	E
2	K0	4	
3	A	8	E
4	F	3	
5	A0	3	
6	A	3	
7	B9?	3	Poor focus
8	A2	3	
9	A	3	
10	A0	5	
11	B9	5	
12	B9	6	E
13	A	3	
14	A5	2	
15	B9	3	
16	A	1	
17	B9	3	
18	A	2	
19	A3	3	
20	B8	4	
21	K5	3	
22	A	3	Another star superposed
23	F2	5	
24	Ma	2	
25	K0	7	
26	A0	3	
27	A2	3	
28	A2	2	

89

Cards Made Out

[5 column table]

1	+26° 870	5 28.1	+26 49.6	6.7
2	+26° 884	5 29.9	+26 31.8	6.8
3	+25° 902	5 30.8	+25 48.8	5.7
4	+27° 833	5 31.6	+27 42.0	8.2
5	+26° 902	5 32.1	+26 57.6	8.6
6	+26° 903	5 32.6	+26 31.9	8.0



7	+27° 839	5 32.9	+27 41.3	8.4
8	+28° 849	5 32.5	+28 22.7	8.0
9	+27° 846	5 34.7	+27 13.3	7.8
10	+27° 849	5 35.2	+27 39.7	7.8
11	+26° 937	5 35.9	+26 16.3	7.4
12	+25° 963	5 36.9	+25 51.2	7.7
13	+28° 871	5 35.8	+28 7.3	8.1
14	+28° 873	5 36.0	+28 11.5	8.4
15	+28° 878	5 36.4	+28 37.4	8.7
16	+28° 883	5 37.2	+28 24.4	9.0
17	+28° 887	5 38.1	+28 33.5	8.1
18	+28° 893	5 38.7	+28 44.1	8.6
19	+27° 86	<del>7</del>	6   5 38.6   +27 34.5	8.0
20	+27° 874	5 39.7	+27 18.7	8.1
21	+27° 880	5 40.5	+27 30.0	7.0
22	+28° 902	5 39.5	+28 16.0	8.4
23	+27° 886	5 41.6	+27 27.3	7.2
24	+27° 887	5 41.7	+27 38.1	7.7
25	+27° 888	5 41.8	+27 55.1	6.5
26	+28° 918	5 42.4	+28 2.8	8.1
27	+28° 919	5 42.6	+28 24.4	8.1
28	+28° 924	5 43.2	+28 35.2	8.8

Project PHaEDRA - Annie Jump Cannon 32  
 Transcribed and Reviewed by Digital Volunteers  
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Dec. 19. 1911 (Cont.)

I 37377

[[4 column table]]

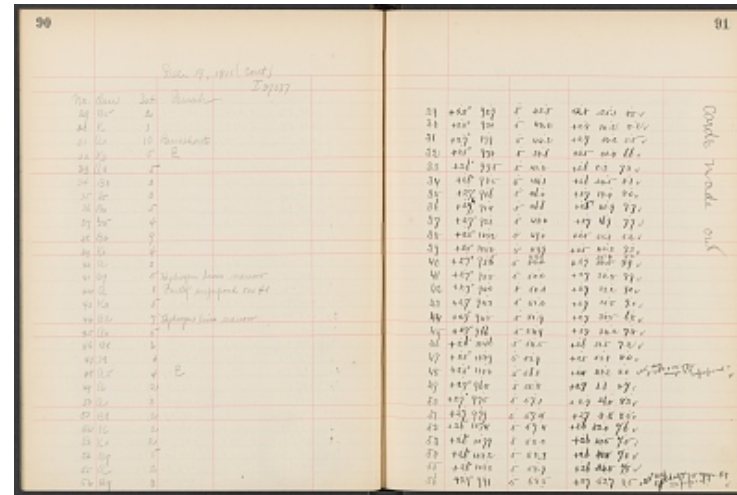
No.	Class	Int.	Remark
29	B5	2	
30	K	1	
31	A0	10	Burned out
32	K0	5	E
33	A3	5	
34	B3	3	
35	F5	3	
36	B0	5	
37	G5	4	
38	B0	9	
39	K0	4	
40	A	3	
41	B9	5	Hydrogen lines narrow
42	A	1	Partly superposed on 41
43	K0	5	
44	B2	7	Hydrogen lines narrow
45	A0	5	
46	B8	6	
47	F8	4	
48	A5	4	E
49	A	2	
50	A0	3	
51	B8	2	
52	K	2	
53	K0	2	
54	B9	5	
55	A	2	
56	B9	3	

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Cards made Out

[[5 column table]]

29	+28° 927	5 43.8	+28 25.1	8.8
30	+28° 930	5 44.2	+28 14.2	8.2
31	+27° 899	5 44.2	+27 34.2	5.5
32	+25° 978	5 38.6	+25 30.4	6.6
33	+26° 975	5 41.8	+26 0.3	7.8
34	+26° 985	5 44.1	+26 24.5	8.1
35	+27° 906	5 46.0	+27 18.4	8.0
36	+2	<del>[[/strickethrough]]</del>	7 <del>[[/strickethrough]]</del> 6 914	5 46.6   +2
37	+27° 923	5 48.0	+27 16.9	7.7
38	+25° 1052	5 49.0	+25 55.8	5.2
39	+25° 1058	5 49.9	+25 45.3	7.3
40	+27° 93	<del>[[/strickethrough]]</del>	8 <del>[[/strickethrough]]</del> 5	5 <del>[[/strickethrough]]</del>



50.0 ~~[[/strikethrough]]~~ 49.8 | +27 ~~[[/strikethrough]]~~ 32.5 | 7.9  
~~[[/strikethrough]]~~ 35.4 | 8.2  
 41 | +27° 938 | 5 50.0 | +27 32.5 | 7.9  
 42 | +27° 940 | 5 50.1 | +27 33.2 | 9.0  
 43 | +27° 943 | 5 51.0 | +27 15.5 | 7.0  
 44 | +27° 945 | 5 51.9 | +27 33.5 | 6.8  
 45 | +27° 966 | 5 54.9 | +27 34.2 | 7.8  
 46 | +26° 1046 | 5 54.5 | +26 31.5 | 7.2  
 47 | +25° 1089 | 5 53.9 | +25 53.1 | 8.0  
 48 | +25° 1108 | 5 56.1 | +25 48.2 | 8.0 +25° 1609 5 56.1 +25 57.5  
 magn. 8.3 superposed  
 49 | +27° 968 | 5 55.8 | +27 1.1 | 8.7  
 50 | +27° 975 | 5 57.4 | +27 56.4 | 8.3  
 51 | +27° 979 | 5 57.4 | +27 3.8 | 8.5  
 52 | +26° 1074 | 5 57.4 | +26 32.0 | 7.6  
 53 | +26° 1079 | 5 58.0 | +26 40.5 | 7.5  
 54 | +26° 1082 | 5 58.3 | +26 41.8 | 7.0  
 55 | +26° 1088 | 5 58.9 | +26 24.8 | 7.8  
 56 | +27° 991 | 5 58.5 | +27 52.7 | 8.5 +28° 1016 5 58.6 +27 7.5 magn.  
 8.9 superposed

Project PHaEDRA - Annie Jump Cannon 32  
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Dec. 19, 1911 (cont.)

I 37377

[[4 column table]]

No. | Class | Int. | Remark

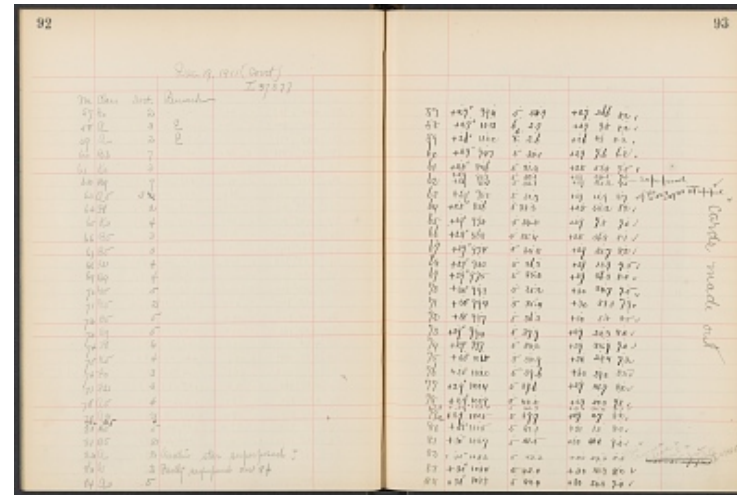
57	G0	2	
58	A	3	E
59	A	2	E
60	B3	7	
61	K0	3	
62	B9	7	
63	A5	[[/strikethrough]] 2 [[/strikethrough]] 3	
64	F8	2	
65	K0	4	
66	B5	3	
67	B5	3	
68	F2	4	
69	B9	4	
70	G5	5	
71	G5	2	
72	B5	5	
73	B9	5	
74	F8	6	
75	K5	4	
76	F0	3	
77	F2	3	
78	A5	4	
79	A2	2	
79a	B5	4	
80	B5	5	
81	B5	2	
82	A	2	Another star superposed?
83	G	3	Partly superposed on 84
84	A0	5	

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Cards made Out

[[5 column table]]

57	+27° 994	5 52.9	+27 26.6	8.2
58	+27° 1013	6 2.7	+27 9.8	8.2
59	+26° 1122	[[/strikethrough]] 5 [[/strikethrough]] 6 2.6   +26 43   8.3		
60	+29° 947	5 30.1	+29 7.6	6.2
61	+28° 846	5 31.4	+28 53.8	7.5
62	+29° 953	5 32.1	+29 24.5	7.0
62	+29° 954	5 32.1	+29 25.2	7.5 superposed
63	+29° 958	5 32.7	+29 12.9	8.7 +29° 5 32.7 +29 11.4 8.7 magn. superposed



64	+28° 856	5 33.3	+28 55.2	8.2
65	+29° 970	5 34.2	+29 7.8	7.0
66	+28° 868	5 35.4	+28 56.8	8.1
67	+29° 974	5 34.8	+29 25.7	8.2
68	+29° 983	5 36.3	+29 13.9	7.5
69	+29° 975	5 35.0	+29 56.3	8.0
70	+30° 993	5 35.2	+30 24.7	7.5
71	+30° 994	5 35.4	+30 33.1	7.9
72	+30° 997	5 36.3	+30 5.8	8.5
73	+29° 994	5 37.9	+29 22.3	8.0
74	+29° 997	5 38.2	+29 35.9	7.0
75	+30° 1015	5 38.9	+30 28.4	7.3
76	+30° 1020	5 39.6	+30 39.0	8.5
77	+29° 1004	5 39.6	+29 41.7	8.2
78	+29° 1009	5 40.0	+29 40.3	7.8
79	+30° 1024	5 40.7	+30 30.2	8.7
79a	+29° 1005	5 39.7	+29 4.7	8.2
80	+31° 1115	5 41.1	+31 1.0	8.0
81	+30° 1027	5 41.5	+30 40.0	9.0
82	+30° 1032	5 42.2	+30 29.4	8.8 <del>1030 - 31</del>
superposed <del>Miss Cannon, please mark on chart plate I</del>				
29863				
83	+30° 1034	5 42.4	+30 41.7	8.2
84	+30° 1033	5 42.4	+30 54.8	7.4

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Dec. 18, 1911 (cont.)

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[[4 column table]]

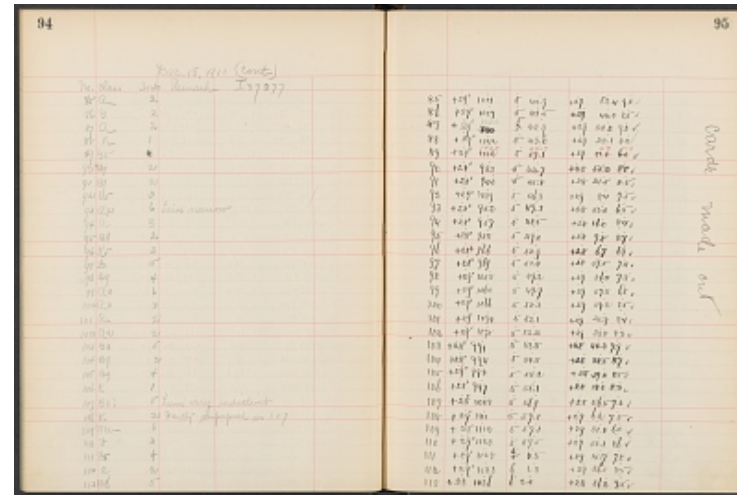
No.	Class	Int.	Remark
85	A   2		
86	G   2		
87	A   2		
88	K   1		
89	G5   3		
90	B9   2		
91	B9   2		
92	G5   3		
93	A2   6	Lines narrow	
94	A   3		
95	B8   2		
96	K5   3		
97	F0   5		
98	B9   4		
99	A3   6		
100	A3   3		
101	A   2		
102	A2   2		
103	B3   5		
104	B9   2		
105	B9   4		
106	K   1		
107	B3?   5	Lines very indistinct	
108	K   2	Partly superposed on 107	
109	Ma   6		
110	F   3		
111	F5   4		
112	A   2		
113	B8   5		

95

Cards Made Out

[[5 column table]]

85	+29° 1021	5 42.9	+29 52.4	9.0
86	+29° 1027	5 43.5	+29 44.0	8.5
87	+29° <del>1120</del>	3	<del>1020</del>	5 42.9   +29 20.0   9.0
88	+29° 1022	5 43.0	+29 28.1	8.2
89	+29° <del>1112</del>	<del>1028</del>	5	<del>57.1</del>   <del>43.7</del>   +29 <del>31.0</del>   6.0   <del>3.9</del>   8.3
90	+28° 933	5 44.7	+28 55.0	8.8



91	+28° 940	5 45.8	+28 21.5	8.5
92	+29° 1039	5 46.3	+29 8.4	7.5
93	+28° 952	5 47.3	+28 55.0	6.5
94	+28° 957	5 48.5	+28 16.0	8.4
95	+28° 958	5 49.0	+28 9.8	8.7
96	+28° 966	5 50.9	+28 6.7	6.9
97	+28° 969	5 51.4	+28 59.5	7.4
98	+29° 1058	5 49.2	+29 360	7.8
99	+29° 1062	5 49.7	+29 57.8	6.8
100	+29° 1066	5 50.3	+29 59.2	8.5
101	+29° 1074	5 52.1	+29 25.9	8.4
102	+29° 1075	5 52.2	+29 33.8	8.3
103	+28° 991	5 53.8	+28 40.3	7.9
104	+28° 994	5 54.8	+28 38.5	8.7
105	+2 <del>9</del>	<del>5 55.2</del>	+28 59.0	8.5
106	+28° 997	5 55.1	+28 18.0	8.3
107	+28° 1008	5 56.9	+28 56.5	7.3
108	+29° 1111	5 57.1	+29 6.2	7.5
109	+29° 1112	5 57.1	+29 31.0	6.0
110	+29° 1123	5 59.5	+29 52.1	8.6
111	+29° 1128	<del>5</del>	<del>6 0.5</del>	+29 15.7
112	+29° 1133	6 1.3	+29 26.1	8.5
113	+28° 1036	6 2.0	+28 56.2	7.5

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Dec. 19, 1911 (Cont.)

I 37377

[[4 column chart]]

No. | Class | Int. | Remarks |

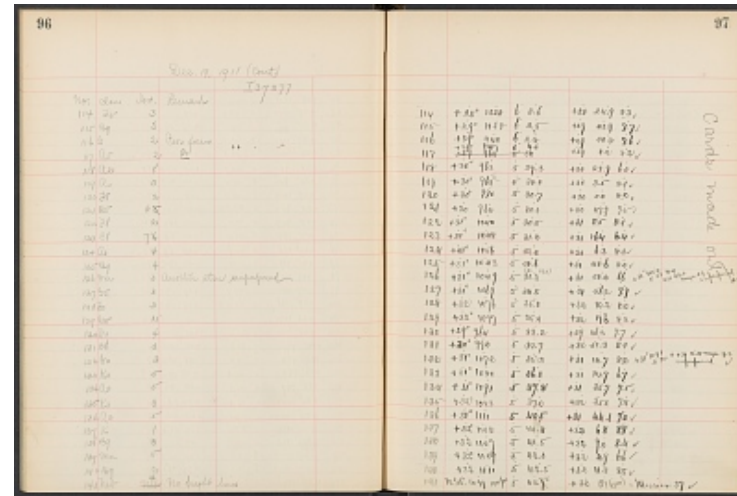
114	F5	3	
115	B9	3	
116	G	2	Poor focus
117	A5	2	E
118	A2	8	
119	A	3	
120	F8	2	
121	B5	4	
122	F8	2	
123	B8	7	
124	A0	4	
125	B9	4	
126	Ma	3	Another star superposed
127	G5	3	
128	F0	3	
129	G5	2	
130	G0	4	
131	B8	3	
132	G0	3	
133	K0	3	
134	A0	5	
135	K0	3	
136	A3	5	
137	K	1	
138	B9	3	

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Cards Made Out

[[5 column table]]

114	+28° 1028	6 0.6	+28 24.9	8.3
115	+29° 1138	6 2.5	+29 42.9	7.7
116	+29° 1140	6 2.8	+29 30.8	7.6
117	[[/strikethrough]] +29 968   5 30 [[/strikethrough]] +29° 1147   6 4.0   +29 4.2   8.2			
118	+30° 963	5 29.3	+30 23.9	6.0
119	+30° 96	[[/strikethrough]] 5 [[/strikethrough]] 6   5 30.0   +30 3.5   8.1		
120	+30° 970	5 30.7	+30 0.0	8.2
121	+30 968	5 30.1	+30 47.9	7.5
122	+31° 1040	5 30.5	+31 8.5	8.1
123	+31° 1048	5 31.2	+31 16.4	6.4
124	+31° 1046	5 32.0	+31 6.3	8.1



125 | +31° 1043 | 5 30.6 | +31 48.6 | 8.0  
 126 | +31° 1049 | 5 31.3^[[31.163]] | +31 50.0 | 6.6 +31° 1050 5 31 19.4  
 +31 48.0 magn. 8.9 superposed  
 127 | +31° 1069 | 5 34.8 | +31 56.2 | 7.9  
 128 | +32 1076 | 5 35.0 | +32 10.2 | 8.0  
 129 | +32° 1077 | 5 35.4 | +32 19.6 | 8.3  
 130 | +29° 964 | 5 33.2 | +29 46.3 | 7.7  
 131 | +30° 992 | 5 34.7 | +30 51.3 | 8.1  
 132 | +31° 1072 | 5 35.3 | +31 14.7 | 8.2 +31° 1071 5 35.3 + 31 15.4  
 magn. 9.3 superposed  
 133 | +31° 1080 | 5 36.1 | +31 14.7 | 6.7  
 134 | +31° 1091 | 5 37.8 | +31 35.7 | 7.5  
 135 | +32° 1083 | 5 37.0 | +32 35.0 | 7.8  
 136 | +31° 1111 | 5 40.5 | +31 44.1 | 7.0  
 137 | +32° 1102 | 5 40.8 | +32 6.8 | 8.8  
 138 | +32° 1107 | 5 41.5 | +32 9.0 | 8.4  
 139 | +32° 1109 | 5 42.0 | +32 4.9 | 6.6  
 140 | +32° 1111 | 5 42.5 | +32 11.8 | 8.8  
 141 | N.G.C. 2099 1900 pos. | 5 45. ~~9~~ ~~8~~  
 | +32 31 (1900) = Messier 37

Project PHaEDRA - Annie Jump Cannon 32  
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Dec. 19, 1911 (cont.)

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[[4 column table]]

No. | Class | Int. | Remark

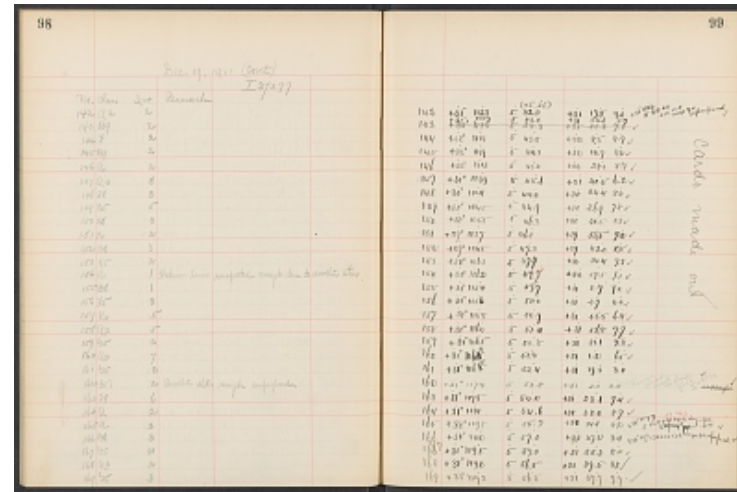
142	A2	2	
143	B9	2	
144	F	2	
145	B9	2	
146	A	2	
147	A3	8	
148	F8	3	
149	B5	5	
150	B8	3	
151	F0	2	
152	B8	3	
153	K5	2	
154	A	1	Helium lines suspected may be due to another star
155	B8	1	
156	F5	3	
157	K0	5	
158	A3	5	
159	G5	2	
160	A0	7	
161	G5	2	
162	F5?	2	Another star maybe superposed
163	F8	6	
164	A	2	
165	A	3	
166	B8	3	
167	G5	2	
168	A3	2	
169	G5	3	

99

Cards Made Out

[[5 column table]]

142	+31° 1123	5 42.0 <sup>^</sup> [[42° 2.6'']]	+31 17.8   9.0	+31° 1122 5 42 0.4
	+31 18.4 magn. 9.4 superposed			
143	[[/strikethrough]] +35° 1188	5 28.3	+35 30.3   7.0	
	[[/strikethrough]] +31° 1127   5 43.2   +31 24.6   8.7			
144	+32° 1118	5 43.8	+32 8.5   8.7	
145	+32° 1119	5 44.1	+32 14.7   8.8	
146	+32° 1121	5 45.0	+32 28.1   8.7	
147	+31° 1139	5 45.6	+31 40.5   6.2	
148	+30° 1041	5 44.0	+30 24.4   8.0	



149 | +30° 1045 | 5 44.9 | +30 26.9 | 7.8  
 150 | +30° 1055 | 5 46.3 | +30 40.5 | 8.3  
 151 | +29° 1037 | 5 46.1 | +29 55.5 | 7.2  
 152 | +29° 1045 | 5 47.3 | +29 43.0 | 8.5  
 153 | +30° 1063 | 5 47.7 | +30 34.4 | 7.8  
 154 | +30° 1062 | 5 47. ~~[[/strickethrough]] 7 [[/strickethrough]] 6 | +30 59.5 |~~  
 9.1  
 155 | +31° 1154 | 5 49.7 | +31 0.7 | 9.0  
 156 | +31° 1156 | 5 50.0 | +31 2.7 | 8.0  
 157 | +31° 1158 | 5 50.9 | +31 55.5 | 6.8  
 158 | +31° 1162 | 5 51.4 | +31 56.8 | 7.7  
 159 | +31° 1165 | 5 51.8 | +31 31.1 | 7.8  
 160 | +31° 116 ~~[[/strickethrough]] 5 [[/strickethrough]] 4 | 5 51.8 | +31 1.2 |~~  
 6.5  
 161 | +31° 116 ~~[[/strickethrough]] 5 [[/strickethrough]] 8 | 5 52.4 | +31 19.3 |~~  
 8.0  
 162 | +31° 1174 | 5 53.8 | +31 2.0 | 8.8 <iss Cannon please mark on  
 chart plate | 29863 ~~[[/strickethrough]] 1173 supr. [[/strickethrough]]~~  
 163 | +31° 1175 | 5 54.0 | +31 23.1 | 7.4  
 164 | +31° 1181 | 5 54.6 | +31 38.0 | 8.7  
 165 | +30° 1098 | 5 55.3 | +30 14.1 | 8.2 +30° 1097 5 55.2 +  
~~[[/strickethrough]] 40 14.3 magn. 8.5 [[/strickethrough]] 30 14.3 magn. 9.2~~  
 superposed  
 166 | +30° 1110 | 5 57.0 | +30 47.2 | 8.4 +30° 1109 5 57.0 +30 52.2  
 magn. 9.1 superposed  
 16 ~~[[/strickethrough]] 6 [[/strickethrough]] 7 | +31° 1195 | 5 57.0 | +31 25.3 |~~  
 8.0  
 168 | +31° 1192 | 5 56.5 | +31 39.5 | 8.8  
 169 | +31° 1193 | 5 56.5 | +31 57.7 | 7.9

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Dec. 19, 1911 (Cont.)  
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[[4 column chart]]

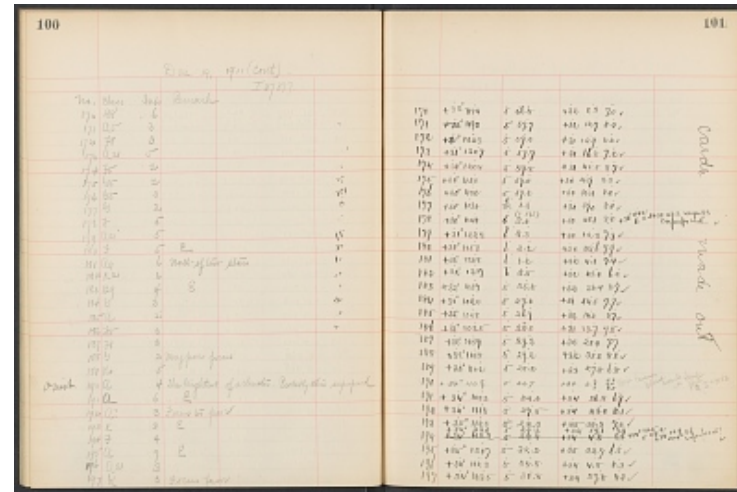
No. | Class | Int. | Remark

170	B8	6	
171	A5	3	
172	F8	3	
173	A2	5	
174	F5	2	
175	G5	2	
176	G5	3	
177	G	2	
178	F	5	
179	A2	5	
180	F	5	E
181	A0	6	North of lines stars
182	K2	6	
183	B9	4	E
184	G	3	
185	A	2	
186	F5	3	
187	F8	3	
188	G	2	very poor focus
189	K0	5	
[[left-margin]] Omit [[/left margin]] 190   A   4   The brightest of a cluster.			
Probably others superposed			
191	A	6	E
192	A?	3	Focus too poor
193	K	3	E
194	F	4	
195	A	7	E
196	A2	3	
197	K	3	Focus poor

101

Cards made out  
[[5 column table]]

170	+32° 1184	5 56.8	+32 0.3	7.0	[[checkmark]]
171	+32° 1190	5 57.7	+32 12.7	8.4	[[checkmark]]
172	+31° 1203	5 59.0	+31 12.9	8.0	[[checkmark]]
173	+31° 1207	5 59.8	+31 16.8	7.2	[[checkmark]]
174	+31° 1208	5 59.8	+31 45.5	8.7	[[checkmark]]
175	+30° 1121	5 59.0	+30 15.9	8.3	[[checkmark]]
176	+30° 1122	5 59.2	+30 35.1	8.0	[[checkmark]]
177	+30° 1138	6	[[strikethrough]] 5	[[strikethrough]] 1.3	+30 59.0   8.1
[[checkmark]]					
178	+30° 1141	6 2.0 (1 59.3)	+30 42.1	8.0	+30° 1142 6 2.0+30 43.3
magn. 8.3 superposed [[checkmark]]					



179	+31°	1223	6 2.3	+31 12.3	7.9	[[checkmark]]	
180	+30°	1151	6 3.2	+30 48.7	7.7	[[checkmark]]	
181	+32°	1208	6 1.2	+32 4.1	7.4	[[checkmark]]	
182	+32°	1217	6 2.8	+32 43.4	6.0	[[checkmark]]	
183	+32°	1037	5 25.8	+32 38.4	8.7	[[checkmark]]	
184	+31°	1020	5 27.0	+31 54.5	7.7	[[checkmark]]	
185	+32°	1048	5 26.9	+32 14.0	8.7	[[checkmark]]	
186	+31°	1025	5 28.0	+31 13.7	7.8	[[checkmark]]	
187	+32°	1059	5 29.2	+32 23.4	7.7	[[checkmark]]	
188	+32°	1058	5 29.2	+32 35.0	8.0	[[checkmark]]	
189	+33°	1102	5 28.2	+33 27.8	6.8	[[checkmark]]	
190	+34°	110 367	5 26.7	+34 2.6 3 3	8.8 9.0 8.8	Miss Cannon	
Please mark on chart plate   29863							
191	+34°	1083	5 24.0	+34 36.8	6.9	[[checkmark]]	
192	+35°	1118	5 27.5	+34 43.0	8.1	[[checkmark]]	
193	+35°	1188	5 28.3	+35 30.3	7.0	[[checkmark]]	
194	<del>[[strikethrough]]</del>	+34° 1123	5 28.8	+34 4.8	8.3	<del>[[/strikethrough]]</del>	
+34° 1126   5 29.2   +34 59.1   7.9   34° 1125 5 29.2 +34 52.9 magn.							
8.6 superposed? [[checkmark]]							
195	+35°	1207	5 32.2	+35 32.7	6.8	[[checkmark]]	
196	+34°	1123	5 28.8	+34 4.8	8.3	[[checkmark]]	
197	+34°	1135	5 30.8	+34 27.8	8.1	[[checkmark]]	

Project PHaEDRA - Annie Jump Cannon 32  
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Dec. 19 1911 (Cont.)

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[[4 column chart]]

No. | Class | Int. | Remark

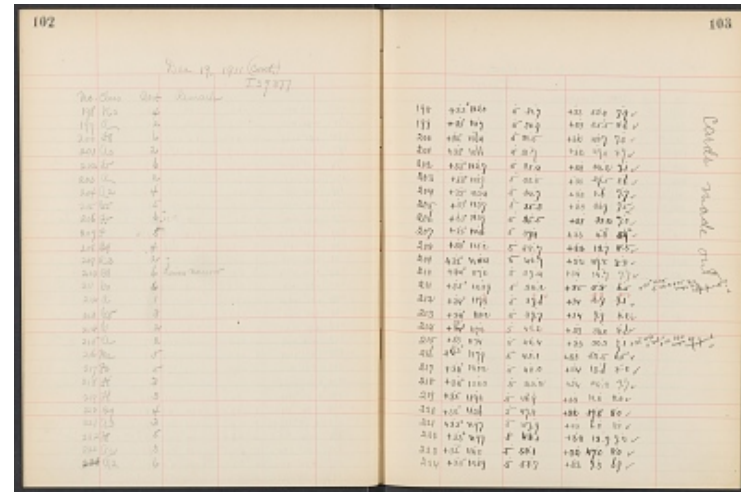
198	K0	4	
199	A	2	
200	F8	6	
201	A0	2	
202	F5	6	
203	A	2	
204	A2	4	
205	G5	5	
206	F5	6	
207	F	3	
208	B9	4	
209	A3	2	
210	B8	6	Lines narrow
211	G0	6	
212	A	1	
213	G5	3	
214	G	2	
215	A	2	
216	Ma	5	
217	F0	5	
218	F8	3	
219	F8	3	
220	B9	4	
221	A3	3	
222	F8	5	
223	A2	3	
224	A2	6	

103

Cards made out

[[5 column chart]]

198	+33° 1120	5 31.7	+33 50.0	7.9	[[checkmark]]
199	+33° 1117	5 30.9	+33 25.5	8.6	[[checkmark]]
200	+32° 1064	5 31.5	+32 48.7	7.0	[[checkmark]]
201	+32° 1066	5 31.7	+32 49.0	8.7	[[checkmark]]
202	+33° 1127	5 33.4	+33 14.2	7.1	[[checkmark]]
203	+33° 1129	5 33.8	+33 29.5	8.6	[[checkmark]]
204	+33° 1134	5 34.7	+33 1.6	7.7	[[checkmark]]
205	+33° 1137	5 35.3	+33 38.9	7.5	[[checkmark]]
206	+33° 1139	5 35.5	+33 33.2	7.0	[[checkmark]]
207	+33° 1146	5 37.1	+33 4.3	8.9	[[checkmark]]



208 | +33° 1152 | 5 38.7 | +33 13.7 | 8.5 [[checkmark]] |  
 209 | +32° 1104 | 5 40.9 | +32 49.8 | 8.8  
 210 | +34° 1172 | 5 37.4 | +34 14.7 | 7.7  
 211 | +35° 1239 | 5 38.2 | +35 5.8 | 6.5 +35° 1238 5 38.2 +35 8.3 magn.  
 8.9 superposed ?  
 212 | +34° 117 ~~3~~ 6 | 5 3  
~~7.6~~ 8.4 | +34 ~~2.7~~ 9.1  
~~3.9~~ 8.7  
 213 | +34° 1182 | 5 39.7 | +34 9.9 | 8.2  
 214 | + ~~34~~ 33° 1172 | 5 42.2 | +33 34.0  
 | 8.6  
 215 | +33 1174 | 5 42.4 | +33 30.3 | 9.1 +33° 1175 5 42.5 +33 39.4  
 magn. 8.8 superposed  
 216 | + ~~4~~ 33° 1179 | 5 43.1 | +33 52.5 |  
 6.5  
 217 | +34° 1202 | 5 43.0 | +34 13.6 | 8.0  
 218 | +34° 1203 | 5 43.2 | +34 24.3 | 7.7  
 219 | +33° 1193 | 5 46.9 | +33 11.0 | 8.0  
 220 | +32° 1136 | 5 47.8 | +32 39.8 | 8.0  
 221 | +33° 1197 | 5 47.9 | +33 6.0 | 8.3  
 222 | +33° 1199 | 5 48.1 | +33 13.9 | 7.2  
 223 | +32° 1148 | 5 50.1 | +32 47.0 | 8.0  
 224 | +33° 1209 | 5 50.7 | +33 7.3 | 6.9

Project PHaEDRA - Annie Jump Cannon 32  
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104

Dec. 19, 1911 (cont.)

I 37377

[[4 column chart]]

No.	Class	Int.	Remark
225	G5	3	
226	F0	2	
227	F5	5	
228	F5	6	
229	K	3	
230	A	2	
231	A	3	
232	B9	6	
233	G	2	
234	K	1	
235	A	5	E
236	A	5	E
237	K0	5	
238	F	4	Poor focus
239	G	6	
240	Mb	3	

Time 11.20

241	2	K0	
242	1	K5	

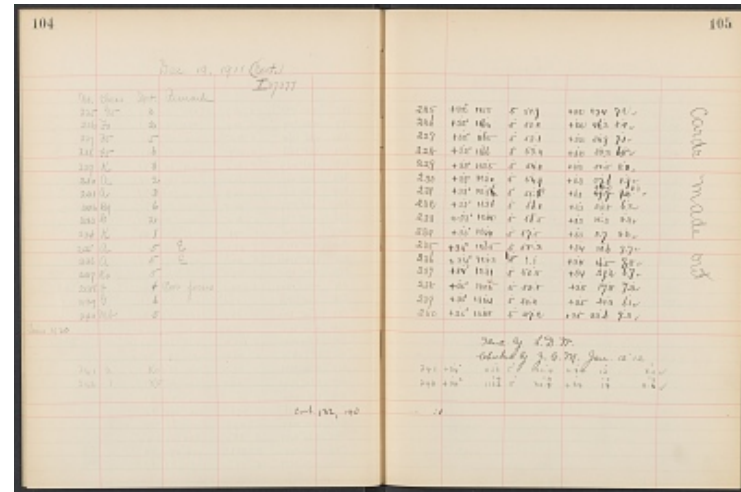
cont. 132, 140

105

Cards made out

[[5 column chart]]

225	+32° 1158	5 57.9	+32 87.4	7.2	[[checkmark]]
226	+32° 1164	5 53.0	+32 46.3	8.4	[[checkmark]]
227	+32° 1165	5 53.1	+32 34.9	7.1	[[checkmark]]
228	+32° 1166	5 53.4	+32 38.3	6.5	[[checkmark]]
229	+33° 1225	5 54.0	+33 54.5	8.0	[[checkmark]]
230	+33° 1230	5 54.9	+33 37.6	8.9	[[checkmark]]
231	+33° 123	<del>4</del>	<del>4</del>	<del>5</del>	
55.	<del>[[strikethrough]]</del>	<del>6</del>	<del>[[strikethrough]]</del>	<del>8</del>	+33
	<del>[[strikethrough]]</del>	<del>49.7</del>	<del>[[strikethrough]]</del>	<del>44.0</del>	
	<del>[[strikethrough]]</del>	<del>9.2</del>	<del>[[strikethrough]]</del>	<del>8.3</del>	[[checkmark]]
232	+33° 1236	5 56.0	+33 35.8	6.3	[[checkmark]]
233	+33° 1240	5 56.5	+33 15.3	8.3	[[checkmark]]
234	+33° 1244	5 57.5	+33 3.7	8.2	[[checkmark]]
235	+34° 1265	5 58.3	+34 10.6	7.7	[[checkmark]]



236 | +34° 1283 | ~~5~~ 6 1.1 | +34 16.5 | 7.8  
[[checkmark]]  
237 | +34° 1231 | 5 50.8 | +34 29.2 | 6.7 [[checkmark]]  
238 | +35° 130 ~~5~~ 4 | 5 50.8 | +35 17.8 | 7.3  
[[checkmark]]  
239 | +35° 1334 | 5 50.4 | +35 24.3 | 6.1 [[checkmark]]  
240 +35° 1288 | 5 47.2 | +35 32.6 | 7.3 [[checkmark]]

Ident. by L.D.W  
Checked by J.C.M. Jan. 12 '12

241 | +34° 1132 | 5 30.4 | +34 12 | 8.0 [[checkmark]]  
242 | +34° 113 ~~2~~ 4 | 5  
30. ~~4~~ 6 | +34  
1 ~~2~~ 0  
| 8. ~~0~~ 3 [[checkmark]]

Project PHaEDRA - Annie Jump Cannon 32  
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106

January ~~9~~~~8~~,  
1911

Time 10:10

I 37426

[4 column chart]

No.	Class	Int.	Remark
1	A0	6	E
2	A3	3	
3	A3	4	
4	A0	5	
5	A0	4	
6	F0	3	
7	G5	2	
8	A0	4	
9	A	2	
10	B9	5	
11	F0	9	
12	F0	5	
13	K5	4	
14	A2	2	Another star superposed?
15	A2	7	Lines rather sharp
16	K0	5	
17	B8	5	
18	A0	4	
19	A0	6	
20	A0	2	
21	A2	3	
22	F5	3	
23	A	2	
24	K0	3	
25	A2	8	
26	A2	4	
27	A2	2	Almost completely superposed on 26

107

Cards made out

[5 column chart]

1	+57° 752	3 42.0	+57 31.0	6.0	[[checkmark]]
2	+56° 855	3 43.3	+56 59.3	8.0	[[checkmark]]
3	+56° 857	3 44.2	+56 29.4	7.0	[[checkmark]]
4	+57° 760	3 47.1	+57 1.1	7.0	[[checkmark]]
5	+55° 839	3 49.9	+55 37.2	7.5	[[checkmark]]
6	+55° 844	3 51.4	+55 50.5	7.5	[[checkmark]]
7	+56° 875	3 53.0	+56 20.0	8.0	[[checkmark]]
8	+57° 769	3 51.7	+57 17.9	8.0	[[checkmark]]

9 | +56° 872 | 3 51.6 | +56 58.3 | 8.7 [[checkmark]]  
 10 | +58° 685 | ~~4~~ 3 50.8 | +58 31.8 | 8.0  
 [[checkmark]]  
 11 | +58° 690 | ~~4~~ 3 52.4 | +58 44.7 | 5.0  
 [[checkmark]]  
 12 | +58° 708 | ~~4~~ 3 57.4 | +58 9.5 | 7.5  
 [[checkmark]]  
 13 | +56° 879 | 3 55.5 | +56 20.5 | 7.6 [[checkmark]]  
 14 | +55° 852 | 3 59.7 | +55 30.8 | 8.5 [[checkmark]]  
 15 | +57° 785 | 4 3.2 | +57 29.1 | 6.0 [[checkmark]]  
 16 | +57° 787 | 4 5.2 | +57 29.1 | 6.0 [[checkmark]]  
 17 | +56° ~~900~~ 899 | 4 5.5 | +56 48.8 | 7.3  
 [[checkmark]]  
 18 | +58° 727 | 4 5.8 | +58 24.7 | 7.1 [[checkmark]]  
 19 | +59° 793 | 4 10.0 | +59 16.0 | 6.5 [[checkmark]]  
 20 | +58° 737 | 4 11.5 | +58 8.6 | 8.7 [[checkmark]]  
 21 | +58° 738 | 4 12.8 | +58 14.4 | 8.1 [[checkmark]]  
 22 | +56° 907 | 4 10.3 | +56 58.2 | 8.3 [[checkmark]]  
 23 | +57° 795 | 4 10.8 | +57 2.8 | 9.2 [[checkmark]]  
 24 | +56° 904 | 4 9.3 | +56 21.4 | 8.0 [[checkmark]]  
 25 | +56° 905 | 4 10.1 | +56 9.2 | 6.3 [[checkmark]]  
 26 | +55° 868 | 4 9.4 | +55 10.7 | 8.0 [[checkmark]]  
 27 | +55° 869 | 4 9.5 | +55 9.2 | 8.0 [[checkmark]]

Project PHaEDRA - Annie Jump Cannon 32  
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110

January ~~9~~ 8, 1911 (Cont.)

I 37426

[[4 column chart]]

No.	Class	Int.	Remark
55	F2	3	
56	A	2	
57	F5	4	Poor focus
58	A3	3	
59	A	7	E <del>Maybe B</del>
60	A2	7	
61	F5	3	
62	F5	2	
63	G	2	
64	F5	3	
65	A0	7	
66	A	3	
67	K	2	
68	F	2	
69	A	3	
70	A5	3	E
71	A	7	E
72	A	6	E
73	A3	7	
74	A0	3	

Time 10.25

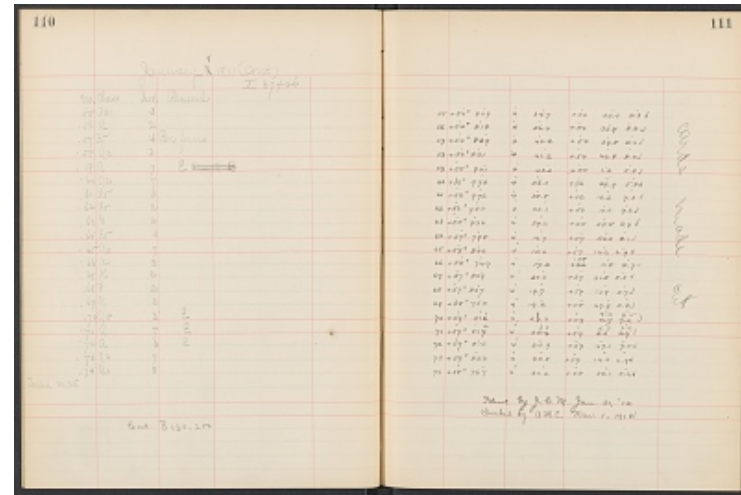
Cont. B130,200

111

Cards made out

[[5 column chart]]

55	+54° 809	4 34.7	+54 32.4	8.3
56	+54° 818	4 36.4	+54 32.7	8.8
57	+54° 829	4 40.2	+54 39.8	8.0
58	+54° 831	4 41.2	+54 46.8	8.0
59	+55° 941	4 43.2	+55 1.2	5.8
60	+56° 973	4 36.0	+56 29.9	5.8
61	+56° 976	4 38.8	+56 16.2	7.3
62	+56° 980	4 40.1	+56 10.0	7.6
63	+55° 936	4 39.6	+55 35.8	8.9
64	+57° 798	4 14.7	+57 54.0	8.1
65	+57° 800	4 15.0	+57 14.6	6.9
66	+58° 747	4 17.2	+ <del>58</del> 11.8	8.7
67	+57° 809	4 20.0	+57 31.8	8.3
68	+57° 807	4 19.7	+57 52.9	8.7
69	+58° 753	4 19.2	+58 47.9	8.4



70 | +59° 81 ~~2~~ | 4 2 ~~3~~  
~~1.3~~ | +59 ~~5.7~~ | 7.2 ~~9.6~~ |  
 8.5  
 71 | +59° 81 ~~7~~ | 4 2 ~~2~~  
 5.4 ~~3.3~~ | +59 ~~2.3~~ | 8.7 ~~7.2~~  
 5.7 | 7.2  
 72 | +59° 816 | 4 24.9 | +59 47.1 | 7.5  
 73 | +59° 826 | 4 30.8 | +59 14.4 | 6.9  
 74 | +58° 767 | 4 30.2 | +58 38.1 | 8.6

Ident. by J.C.M. Jan. 31, '12  
 Checked by A.M.C. Mar. 1, 1912

Project PHaEDRA - Annie Jump Cannon 32  
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 Extracted Aug-30-2022 03:45:05



112

January ~~9~~ 8, 1911  
Time 10:54 I 37452

[[4 column table]]

No. | Class | Int. | Remark

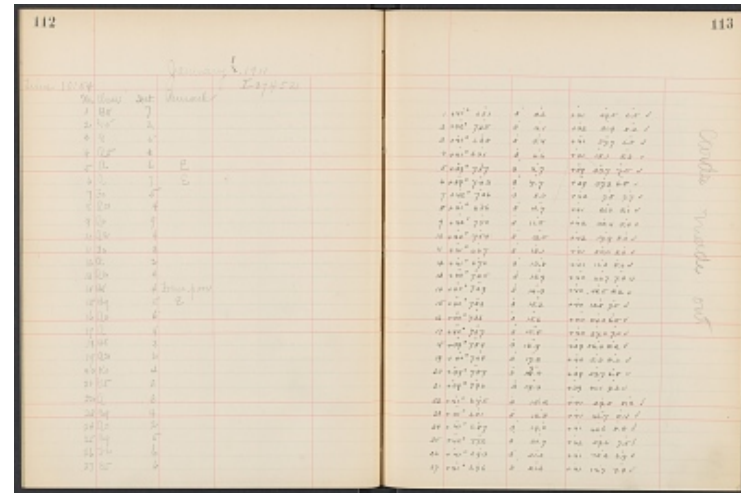
1	B8	7	
2	G5	2	
3	G	5	
4	A5	6	
5	A	6	E
6	A	7	E
7	F0	5	
8	A2	4	
9	A0	9	
10	A2	4	
11	F0	3	
12	A	2	
13	A2	4	
14	B8	4	Focus poor
15	B9	5	E
16	A0	6	
17	A	4	
18	B8	3	
19	A2	2	
20	K0	4	
21	G5	3	
22	A	3	
23	B9	4	
24	A0	2	
25	B9	5	
26	F2	6	
27	B5		

113

Cards Made Out

[[5 column table]]

1	+41° 631	3 2.6	+41 49.5	6.5
2	+42° 725	3 4.1	+42 21.9	8.2
3	+41° 638	3 5.4	+41 57.7	6.8
4	+41° 641	3 6.6	+41 18.1	8.3
5	+39° 737	3 4.7	+39 33.7	7.5
6	+39° 743	3 7.7	+39 57.2	6.8
7	+42° 736	3 8.0	+42 7.8	7.7
8	+41° 656	3 10.7	+41 21.0	8.1
9	+42° 750	3 11.8	+42 48.4	5.4
10	+42° 754	3 12.5	+42 17.9	8.0
11	+41° 667	3 13.1	+41 25.0	8.0



12	+41° 670	3 13.8	+41 11.3	8.0
13	+40° 725	3 13.9	+40 40.7	7.3
14	+40° 729	3 14.3	+40 48.5	8.2
15	+40° 733	3 15.2	+40 13.8	7.5
16	+40° 736	3 15.6	+40 44.3	6.5
17	+40° 737	3 15.8	+40 27.0	7.0
18	+39° 784	3 16.9	+39 56.0	8.2
19	+40° 748	3 17.2	+40 5.3	8.3
20	+39° 789	3 1 <del>8</del> 9.0	+39 39.7	
21	+39° 790	3 19.4	+39 41.1	7.3
22	+41° 675	3 15.2	+41 29.5	8.4
23	+41° 681	3 16.8	+41 46.7	8.4
24	+41° 687	3 19.0	+41 43.6	8.8
25	+42° 772	3 20.7	+42 29.6	7.5
26	+41° 693	3 21.0	+41 42.2	6.9
27	+41° 696	3 21.6	+41 14.7	7.4

Project PHaEDRA - Annie Jump Cannon 32  
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January ~~9~~ ~~8~~, 1911 (cont.)

I 37452

[[4 column table]]

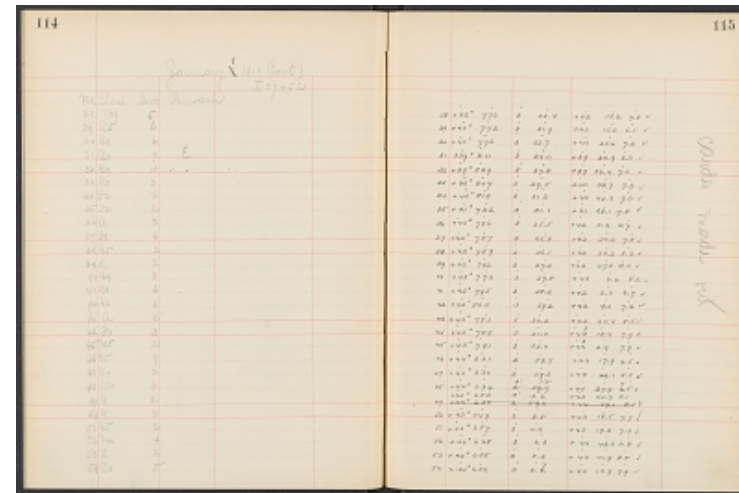
No.	Class	Int.	Remark
28	B9	5	
29	A5	6	
30	B9	6	
31	A0	7	E
32	B9	4	
33	A0	3	
34	F2	4	
35	F2	4	
36	A	2	
37	F8	4	
38	G5	2	
39	K	2	
40	B9	3	
41	B8	6	
42	G0	4	
43	A	2	
44	F0	3	
45	G5	2	
46	G5	9	
47	A0	2	
48	A2	3	
49	G	2	
50	G	2	
51	G5	2	
52	Ma	4	
53	A	2	
54	A0	5	

115

Cards Made Out

[[5 column table]]

28	+42° 776	3 22.4	+42 15.2	7.8
29	+40° 772	3 21.9	+40 15.6	6.5
30	+40° 776	3 22.7	+40 25.6	7.2
31	+39° 811	3 24.0	+39 24.9	6.0
32	+39° 829	3 27.8	+39 36.4	7.0
33	+40° 807	3 29.5	+40 48.7	7.9
34	+40° 813	3 31.2	+40 42.3	7.0
35	+41° 732	3 31.1	+41 22.1	7.8
36	+42° 786	3 25.5	+42 5.2	8.7
37	+42° 787	3 25.8	+42 24.6	7.5



38	+42° 789	3 26.1	+42 24.2	8.3
39	+42° 792	3 27.2	+42 47.4	8.0
40	+43° 773	3 27.8	+43 4.3	8.2
41	+42° 795	3 28.2	+42 6.0	6.7
42	+42° 803	3 29.2	+42 4.0	7.2
43	+43° 783	3 30.2	+43 35.4	8.5
44	+43° 788	3 31.0	+4 <del>4</del>	<del>3 13.4</del>
45	+43° 791	3 32.0	+4 <del>4</del>	<del>3 2.9</del>   7.9
46	+44° 631	2 59.7	+44 17.9	4.5
47	+44° 630	2 59.6	+44 49.1	8.5
48	+44° 634	<del>2 59.7</del>	<del>3 1.5</del>   +44 27.9	<del>7.5</del>
49	<del>44° 630</del>	<del>2 59.6</del>   +44 49.1	<del>8.5</del>	<del>7.5</del>
	+43° 653	3 3.2	+43 44.7	8.1
50	+43° 649	3 2.8	+43 18.5	7.7
51	+43° 657	3 4.2	+43 19.2	7.3
52	+44° 648	3 6.3	+44 48.0	6.8
53	+44° 655	3 8.3	+44 41.9	8.8
54	+44° 656	3 8. <del>8</del>	<del>7</del>   +44 10.9	7.9

Project PHaEDRA - Annie Jump Cannon 32  
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January ~~9~~ 8, 1911 (cont.)

I 37452

[[4 column table]]

No. | Class | Int. | Remark

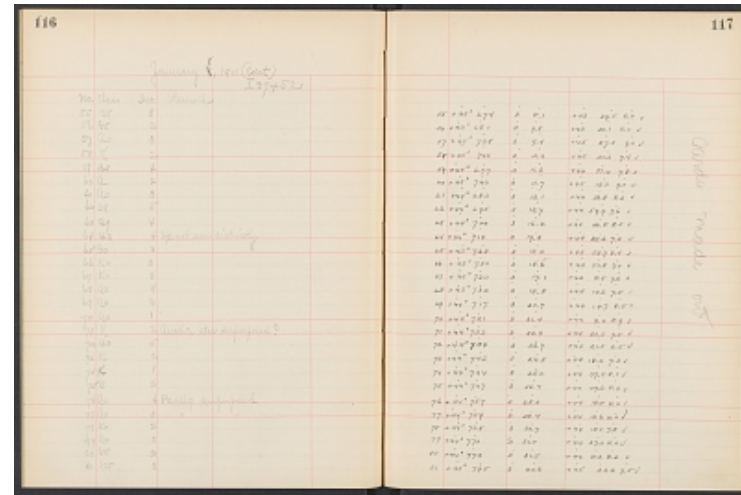
55	B8	8	
56	G5	2	
57	A0	3	
58	K	2	
59	B8	4	
60	A	2	
61	A0	3	
62	B8	5	
63	B9	4	
64	B3	4	H beta not seen distinctly
65	G0	3	
66	K0	3	
67	K0	3	
68	A0	4	
69	A0	2	
70	A3	1	
71	K	2	Another star superposed
72	B3	5	
73	K	2	
74	K	1	
75	G	2	
76	A0	4	Partly superposed
77	A0	3	Partly superposed
78	K0	2	
79	A0	3	
80	G5	2	
81	G5	3	

117

Cards Made Out

[[5 column table]]

55	+43° 674	3 8.1	+43 29.5	6.0
56	+43° 681	3 9.8	+43 28.1	8.0
57	+45° 738	3 9.4	+45 27.3	9.0
58	+45° 740	3 10.4	+45 20.6	7.4
59	+44° 677	3 11.6	+44 51.4	7.8
60	+45° 746	3 11.7	+45 12.0	9.0
61	+44° 683	3 13.1	+44 26.8	8.2
62	+44° 700	3 16.2	+44 46.8	8.5
63	+44° 700	3 16.2	+44 46.8	8.5
64	+44° 714	3 19.3	+44 32.2	7.3



65	+43° 728	3 18.2	+43 53.7	8.4
66	+43° 730	3 18. <del>[[strikethrough]]</del> 4 <del>[[/strikethrough]]</del> 5	+43 51.8	
7.0				
67	+43° 720	3 17.1	+43 8.5	7.6
68	+43° 732	3 18.8	+43 14.6	7.5
69	+44° 717	3 20.7	+44 19.7	8.5
70	+44° 721	3 21.4	+44 9.4	8.9
71	+44° 732	3 22.4	+44 20.3	7.5
72	+44° 734	3 22.7	+44 21.5	6.5
73	+44° 742	3 24.8	+44 18.0	7.3
74	+44° 744	3 25.0	+44 57.5	8.1
75	+44° 747	3 26.4	+44 49.6	8.4
76	+44° 757	3 28.3	+44 18.8	8.0
77	+44° 759	3 28.4	+44 18.6	8.0
78	+44° 768	3 30.7	+44 13.0	7.8
79	+44° 770	3 31.0	+44 27.0	8.0
80	+44° 773	3 31.5	+44 8.2	8.2
81	+45° 795	3 30.6	+45 32.2	7.5

Project PHaEDRA - Annie Jump Cannon 32  
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January ~~9~~ 8, 1911 (cont.)

I 37452

[[4 column table]]

No. | Class | Int. | Remark

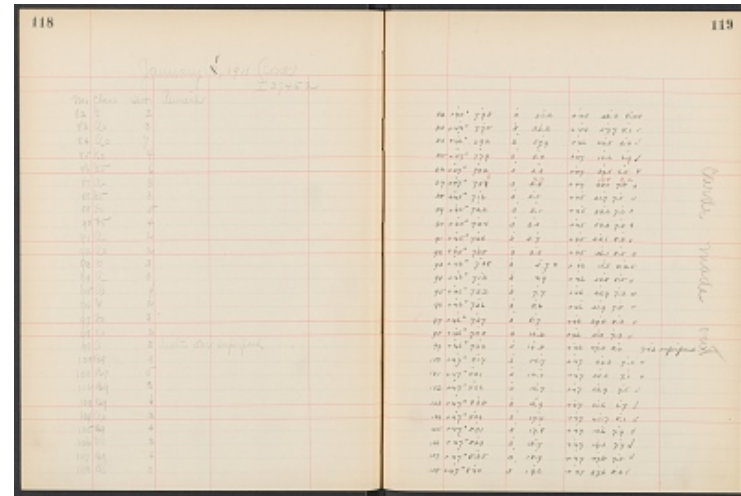
82	G	2	
83	A0	3	
84	A0	7	
85	K0	4	
86	G5	6	
87	A	3	
88	G5	3	
89	F0	5	
90	F5	4	
91	A	2	
92	A0	2	
93	G	3	
94	A	3	
95	A0	4	
96	G	2	
97	F0	3	
98	K0	2	
99	A	3	Another star superposed
100	B9	5	
101	B9	5	
102	B9	3	
103	B9	6	
104	A0	3	
105	B9	4	
106	G0	3	
107	B9	4	
108	A	3	

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Cards Made Out

[[5 column table]]

82	+45° 798	3 31.2	+45 26.3	8.3
83	+44° 775	3 32.2	+44 57.7	8.1
84	+46° 692	2 57.9	+46 44.5	6.4
85	+47° 779	3 2.4	+47 10.6	6.9
86	+47° 782	3 3.3	+47 39.5	6.5
87	+47° 78 <del>4</del>	<del>3 3.3</del>	<del>+47 39.5</del>	<del>6.5</del>
[[/strikethrough]] 4.0   +47 [[strikethrough]] 22.1   7.8 [[/strikethrough]]				
15.8   8.2				
88	+45° 716	3 0.5	+45 21.7	7.5
89	+45° 722	3 2.1	+45 33.6	7.0
90	+45° 724	3 2.3	+45 50.3	7.3



91	+45° 726	3 2.7	+45 33.1	8.8
92	+45° 728	3 3.3	+45 36.1	8.5
93	+46° 708	3 3.7	+46 15.5	8.2
94	+46° 713	3 4.9	+46 34.8	8.5
95	+46° 722	3 7.7	+46 23.9	7.3
96	+46° 726	3 8.6	+46 21.9	7.8
97	+46° 727	3 8.7	+46 29.8	8.3
98	+46° 733	3 10.2	+46 15.0	7.3
99	+46° 744	3 14.8	+46 47.3	8.0 742 superposed
100	+47° 817	3 14.7	+47 22.3	7.3
101	+47° 821	3 16.0	+47 52.3	7.1
102	+47° 826	3 16.7	+47 23.9	7.5
103	+47° 828	3 16.9	+47 41.6	6.7
104	+47° 830	3 17.4	+47 45.7	8.1
105	+47° 831	3 17.8	+47 13.6	7.9
106	+47° 833	3 18.7	+47 19.3	7.7
107	+47° 835	3 18.9	+47 47.8	7.5
108	+47° 840	3 19.6	+47 27.6	8.2

Project PHaEDRA - Annie Jump Cannon 32  
 Transcribed and Reviewed by Digital Volunteers  
 Extracted Aug-30-2022 03:45:05



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January ~~[[sketch]]~~ 9 ~~[[sketch]]~~ 8, 1911 (cont.)

I 37452

[[4 column table]]

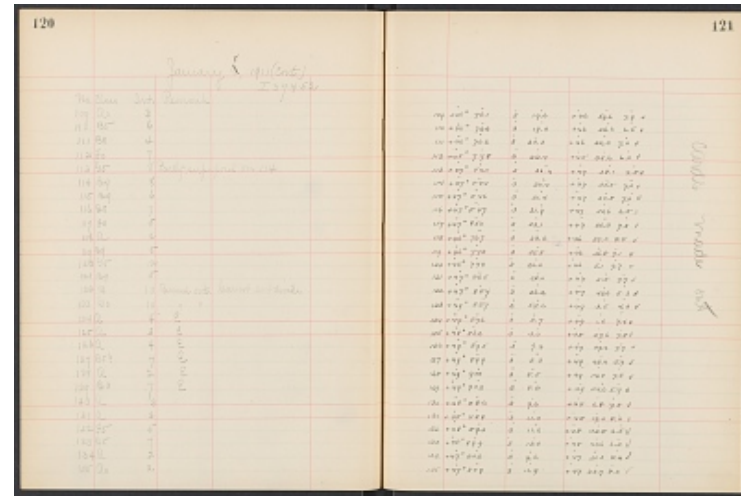
No.	Class	Int.	Remark
109	A0	3	
110	B5	6	
111	B8	4	
112	F0	7	
113	G5	8	Partly superposed on 114
114	B9	8	
115	B9	6	
116	B8	7	
117	F0	5	
118	A	2	
119	B9	5	
120	G5	2	
121	B9	5	
122	B	10	Burned out Cannot subdivide
123	G0	10	Burned out Cannot subdivide
124	A	4	E
125	A	3	E
126	A	4	E
127	B5?	7	E
128	A	2	E
129	B3	7	E
130	A	3	
131	A	3	
132	F5	5	
133	B5	7	
134	A	2	
135	A0	2	

121

Cards Made Out

[[5 column table]]

109	+46° 761	3 19.6	+46 59.6	7.9
110	+46° 760	3 19.4	+46 26.6	6.5
111	+46° 762	3 20.3	+46 32.5	7.0
112	+45° 778	3 22.4	+45 33.6	6.0
113	+47° 843	3 20.4	+45 33.6	6.0
114	+47° 844	3 20.4	+47 35.5	7.0
115	+47° 846	3 21.4	+47 20.8	7.4
116	+47° 847	3 21.9	+47 30.6	6.5
117	+47° 850	3 23.1	+47 26.3	7.3
118	+46° 767	3 23.2	+46 55.0	8.5
119	+46° 773	3 25.8	+46 36.8	7.1
120	+46° 774	3 26.0	+46 5.1	7.7
121	+47° 865	3 28.0	+47 5.5	7.7
122	+47° 857	3 26.2	+47 42.6	5.3



123		+49° 857		2 58.6		+49 3.5		4.3
124		+49° 876		3 3.7		+49 1.6		7.4
125		+48° 862		3 3.0		+48 27.6		7.8
126		+49° 895		3 7.4		+49 49.4		7.7
127		+49° 899		3 8.3		+49 42.4		5.7
128		+49° 900		3 8.5		+49 14.0		7.5
129		+49° 902		3 8.8		+49 34.6		5.7
130		+48° 886		3 9.6		+48 6.8		7.5
131		+48° 888		3 11.0		+48 19.0		8.0
132		+48° 893		3 11.6		+48 32.8		6.5
133		+48° 899		3 13.0		+48 40.6		6.2
134		+47° 802		3 9.6		+47 21.3		8.2
135		+47° 809		3 11.9		+47 23.7		8.3

Project PHaEDRA - Annie Jump Cannon 32  
 Transcribed and Reviewed by Digital Volunteers  
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January ~~9~~ ~~8~~, 1911 (cont.)

I 37452

[[4 column table]]

No.	Class	Int.	Remark
136	G   2		
137	B9   6		
138	A   2		
139	A0   2		
140	B8   6		
141	F5   10+		Classified from trail
142	A2   4	E	
143	A   5		
144	B3   8		
145	A   3		
146	A   2		
147	B8   7	E	
148	B3   9		
149	A   3		
150	A0   5		
151	A   3		
152	B9   7		
153	B9   7		
154	A   5		
155	B9   5		
156	B9   6		
157	A0   3		
158	A   2		
159	A0   3		
160	G   3		
161	A0   3		

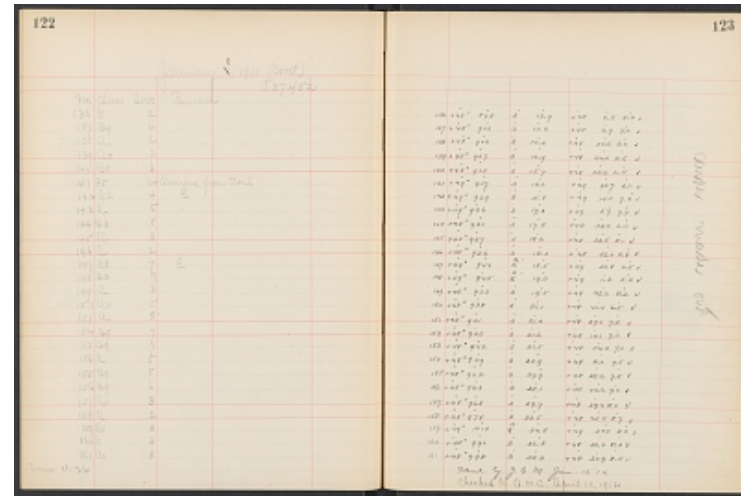
Time 11.26

123

Cards Made Out

[[5 column table]]

136	+48° 898	3 12.9	+48 6.5	8.0
137	+48° 903	3 13.6	+48 4.9	7.0
138	+48° 906	3 14.2	+48 35.6	8.0
139	+48° 907	3 14.9	+48 44.0	8.5
140	+48° 913	3 15.7	+48 35.2	6.5
141	+49° 917	3 14.0	+49 20.7	2.0
142	+49° 929	3 15.8	+49 14.3	7.3
143	+49° 936	3 17.3	+49 5.7	7.7



144	+48° 920	3 17.8	+48 33.5	6.0
145	+48° 927	3 18.6	+48 33.5	8.1
146	+48° 924	3 18.3	+48 52.0	8.8
147	+49° 944	<del>5</del>	3 18.5	+49 20.8
148	+49° 945	<del>5</del>	3 19.0	+49 1.3
149	+48° 933	3 19.5	+48 42.6	8.2
150	+48° 938	3 21.1	+48 41.4	6.5
151	+48° 941	3 21.4	+48 27.0	7.8
152	+48° 943	3 21.6	+48 14.1	7.0
153	+48° 942	3 21.5	+48 54.3	7.0
154	+48° 949	3 23.9	+48 8.0	7.5
155	+48° 962	3 27.9	+48 35.6	7.5
156	+48° 963	3 28.1	+48 44.6	7.0
157	+48° 968	3 29.7	+48 29.4	8.0
158	+48° 978	3 32.5	+48 43.5	8.7
159	+49° 1014	<del>5</del>	3 34.8	+49 24.0
160	+48° 990	3 36.3	+48 20.4	8.3
161	+48° 998	3 38.2	+48 20.9	8.5

Ident. by J.C.M. Jan. 16, '12  
 Checked by A.M.C. April 10, 1912

Project PHaEDRA - Annie Jump Cannon 32  
 Transcribed and Reviewed by Digital Volunteers  
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January ~~10~~ ~~9~~, 1911

Time 1:35 I 37435

[[4 column table]]

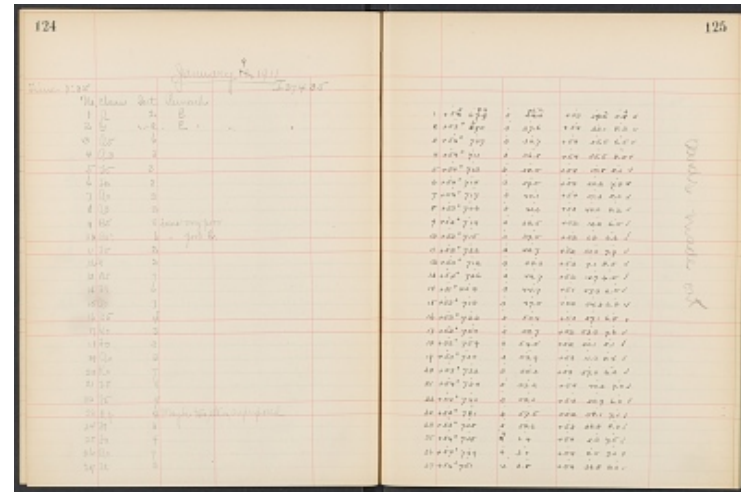
No.	Class	Int.	Remark
1	A	2	E
2	G	2	E
3	A5	6	
4	A3	3	
5	F5	3	
6	F2	3	
7	A0	3	
8	A3	2	
9	B5	8	Focus very poor
10	B3?	6	Focus poor E.
11	F5	2	
12	G	2	
13	B5	7	
14	F8	6	
15	A0	7	
16	G5	4	
17	G0	3	
18	F0	3	
19	A0	3	
20	K0	7	
21	F5	8	
22	F5	9	
23	Kp	4	Maybe two stars superposed
24	F8	3	
25	F0	4	
26	A0	7	
27	F8	3	

125

Cards Made Out

[[5 column table]]

1		+5	<del>4</del>	<del>3</del>	<del>6</del>	<del>79</del>
			<del>84</del>	<del>3</del>	<del>24.0</del>	<del>26.2</del>   +53
29.			<del>0</del>	<del>2</del>	<del>8.</del>	<del>8</del>
			<del>4</del>			
2		+53°	<del>8</del>	<del>690</del>	<del>3</del>	<del>27.6</del>   +53 23.1   8.3
3		+54° 707	3 34.7	+54 35.5	6.5	
4		+54° 711	3 36.8	+54 35.5	8.5	
5		+54° 713	3 38.5	+54 15.8	8.0	
6		+54° 714	3 39.5	+54 20.2	7.8	
7		+54° 717	3 40.1	+54 15.3	8.0	



8	+53° 706	3 40.6	+53 40.0	8.2
9	+52° 714	3 38.5	+52 12.2	6.5
10	+52° 715	3 39.5	+52 1.8	6.6
11	+52° 722	3 42.7	+52   51.0	7.9
12	+53° 712	3 44.3	+53 7.1	8.5
13	+52° 726	3 44.7	+52 12.7	6.5
14	+51° 803	3 44.7	+51 47.3	6.5
15	+53° 718	3 47.5	+53 34.3	6.8
16	+53° 722	3 50.4	+53 27.1	6.8
17	+52° 750	3 52.7	+52 52.3	7.6
18	+52° 759	3 54.5	+52 40.1	8.1
19	+53° 730	3 54.9	+53 11.3	8.4
20	+53° 732	3 55.3	+53 37.0	6.0
21	+54° 734	3 53.2	+54 40.2	7.0
22	+54° 740	3 58.0	+54 25.9	6.0
23	+52° 781	3 57.5	+52 58.1	7.1
24	+53° 738	3 58.6	+53 28.8	8.0
25	+54° 745	<del>3</del>	<del>4 1.4</del>	+54 2.3   7.5
26	+54° 749	4 3.0	+54 8.5	7.0
27	+54° 751	4 3.8	+54 36.8	8.0

Project PHaEDRA - Annie Jump Cannon 32  
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January ~~10~~ ~~9~~, 1911 (cont.)

I 37435

[[4 column table]]

No. | Class | Int. | Remark

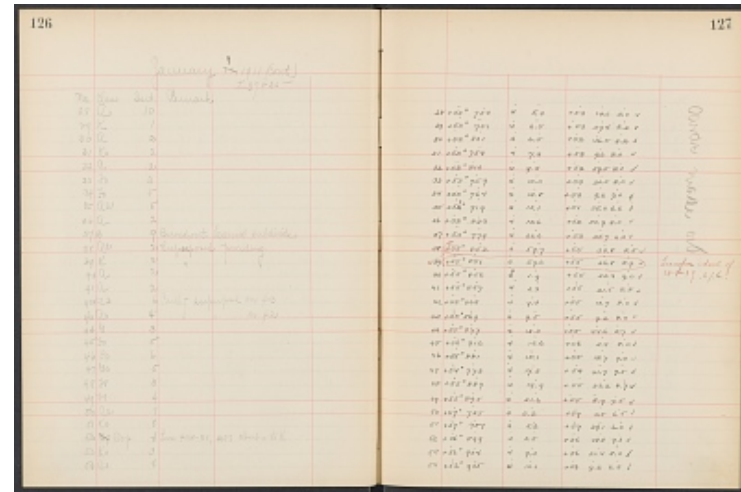
28	A	10		
29	K	1		
30	A	2		
31	K0	2		
32	A	2		
33	F0	3		
34	F0	5		
35	A2	5		
36	A	2		
37	B	9		Burned out. Cannot subdivide
38	A2	2		Superposed preceding
39	K	2		Superposed preceding
40	A	2		
41	A	2		
42	A3	6		Partly superposed on 43
43	A0	4		Partly superposed on 42
44	G	3		
45	F0	5		
46	F0	6		
47	G0	5		
48	F8	3		
49	F8	4		
50	A2	8		
51	K0	8		
52	[[/strikethrough]] B9 [[/strikethrough]] A0p   8   Lines 4128-31, 4077			
about = to K				
53	K0	3		
54	A3	8		

127

Cards made Out

[[5 column table]]

28	+53° 750	4 5.4	+53 14.0	5.0
29	+53° 751	4 6.5	+53 37.4	8.2
30	+52° 801	4 6.5	+52 46.5	8.2
31	+53° 754	4 7.4	+53 9.6	8.0
32	+52° 810	4 9.5	+52 59.5	8.0
33	+53° 759	4 10.0	+53 20.5	8.0
34	+53° 764	4 12.8	+53 9.6	7.0
35	+5 <del>[[/del]]</del>	<del>[[/del]]</del> 2 <del>[[/del]]</del>	1° 919   4 13.1   +51 35.0	6.6
36	+52° 823	4 15.6	+52 30.9	8.0
37	+53° 779	4 20.6	+53 35.7	6.0
38	+55° 851	3 59.6	+55 26.8	8.9



39 | +55° 852 | 3 59.7 | +55 30.8 | 8.5 Transposed ident. of 38 & 39  
A.J.C.  
40 | +55° 856 | ~~3~~ 1.9 | +55 23.4 | 9.0  
41 | +55° 857 | 4 2.4 | +55 21.5 | 8.8  
42 | +55° 868 | 4 9.4 | +55 10.7 | 8.0  
43 | +55° 869 | 4 9.5 | +55 9.2 | 8.0  
44 | +55° 877 | 4 13.3 | +55 44.6 | 8.7  
45 | +56° 916 | 4 13.6 | +56 2.4 | 8.0  
46 | +55° 881 | 4 15.1 | +55 18.7 | 7.0  
47 | +54° 773 | 4 17.3 | +54 41.7 | 7.5  
48 | +55° 889 | 4 19.9 | +55 33.2 | 8.7  
49 | +55° 895 | 4 21.6 | +55 8.9 | 7.5  
50 | +57° 785 | 4 3.2 | +57 5.5 | 6.5  
51 | +57° 787 | 4 5.2 | +57 29.1 | 6.0  
52 | +56° 899 | 4 5.5 | +56 48.8 | 7.3  
53 | +56° 904 | 4 9.3 | +56 21.4 | 8.0  
54 | +56° 905 | 4 10.1 | +56 9.2 | 6.3

Project PHaEDRA - Annie Jump Cannon 32  
Transcribed and Reviewed by Digital Volunteers  
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January ~~10~~ ~~9~~, 1911 (cont.)

I 37435

[[4 column table]]

No. | Class | Int. | Remark

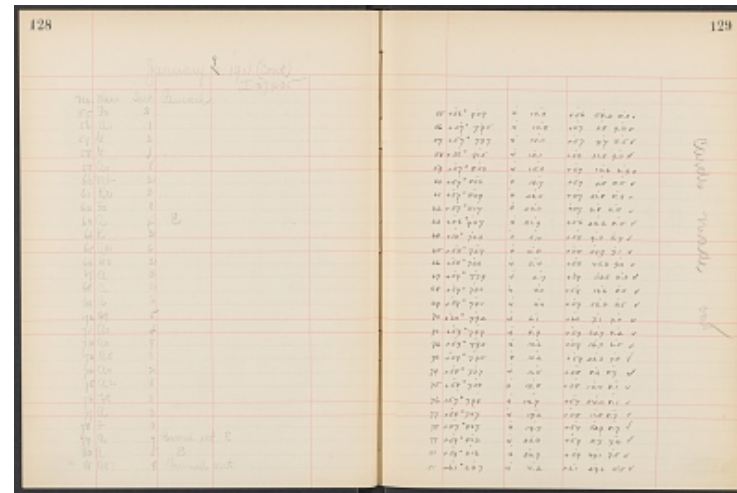
55	F0	3	
56	A	1	
57	G	2	
58	G	1	
59	A0	8	
60	Mb	2	
61	K2	3	
62	F0	8	
63	A	4	E
64	K	2	
65	A2	6	
66	G0	2	
67	A	3	
68	A	2	
69	A	2	
70	B9	5	
71	A0	4	
72	A0	9	
73	A5	3	
74	A0	2	
75	A2	4	
76	F8	3	
77	A	3	
78	F	3	
79	A	7	Burned Out E
80	A	5	E
81	B8?	8	Burned out

129

Cards Made Out

[[5 column table]]

55	+56° 907	4 10.3	+56 58.2	8.3
56	+57° 795	4 10.8	+57 2.8	9.2
57	+57° 797	4 14.0	+57 9.7	8.5
58	+56° 915	4 13.1	+56 31.8	9.0
59	+57° 800	4 15.0	+57 14.6	6.9
60	+57° 806	4 18.7	+57 4.8	8.5
61	+57° 809	4 20.0	+57 31.8	8.3
62	+57° 817	4 23.0	+57 6.8	6.8
63	+56° 937	4 21.9	+56 24.2	8.5
64	+58° 724	4 3.4	+58 9.3	8.7



65	+58° 727	4 5.8	+58 24.7	7.1
66	+58° 726	4 5.4	+58 45.3	9.0
67	+59° 779	4 3.7	+59 33.5	8.8
68	+59° 780	4 4.0	+59 14.6	8.5
69	+59° 781	4 4.4	+59 56.8	8.5
70	+60° 792	4 6.1	+60 7.1	7.0
71	+59° 789	4 8.9	+59 32.7	8.2
72	+59° 793	4 10.6	+59 16.0	6.5
73	+59° 795	4 11.2	+59 23.3	7.8
74	+58° 737	4 11.5	+58 8.6	8.7
75	+58° 738	4 12.8	+58 14.4	8.1
76	+57° 798	4 14.7	+57 54.0	8.1
77	+58° 747	4 17.2	+58 11.8	8.7
78	+57° 807	4 19.7	+57 52.9	8.7
79	+59° 812	4 23.3	+59 5.7	7.2
80	+59° 816	4 24.9	+59 47.1	7.5
81	+61° 687	4 4.2	+61 29.0	5.5

Project PHaEDRA - Annie Jump Cannon 32  
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January ~~10~~ ~~9~~, 1911 (cont.)

I 37435

[[4 column table]]

No. | Class | Int. | Remark

82 | A | 4 | E

82a | K | 1 | E

83 | A3 | 3 | E |

84 | A | 4 | |

85 | K0 | 7 | |

86 | F | 4 | E

87 | F0 | 2 | |

88 | K | 3 | E

89 | K | 3 | E

~~[[strikethrough]] 90~~ ~~[[/strikethrough]]~~

Time 1:55

cont. 130, 198

131

Cards Made Out

[[5 column table]]

82 | +61° 6 ~~[[strikethrough]] 80~~ ~~[[/strikethrough]]~~ 92 | 4 ~~[[strikethrough]]~~

4.9 ~~[[/strikethrough]]~~ 5.4 | +61 ~~[[strikethrough]] 25.6~~ ~~[[/strikethrough]]~~ 7.9 ~~[[/strikethrough]]~~

32.7 | 7.3

82a | +61° 689 | 4 4.6 | +61 25.6 | 2.9

83 | +61° 694 | 4 6.5 | +61 14.6 | 7.8

84 | +60° 799 | 4 9.0 | +60 25.8 | 8.7

85 | +60° 800 | 4 9.2 | +60 23.7 | 5.7

86 | +61° 707 | 4 11.3 | +61 40.8 | 6.7

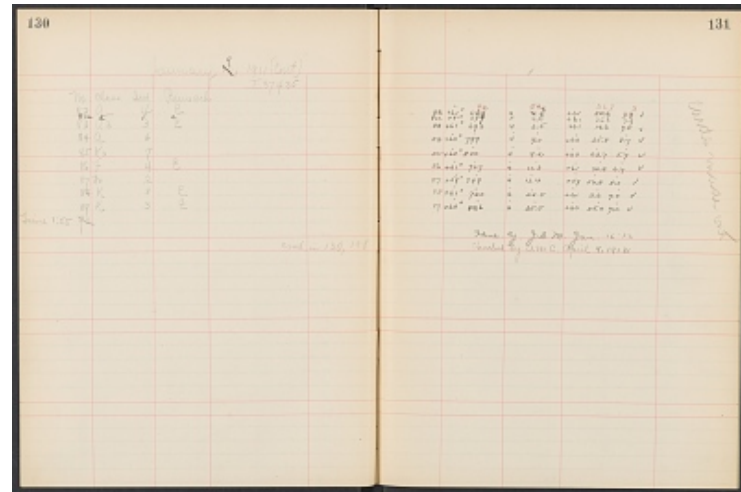
87 | +59° 799 | 4 13.4 | +59 54.8 | 8.0

88 | +61° 720 | 4 23.5 | +61 3.6 | 7.0

89 | +60° 826 | 4 25.5 | +60 35.0 | 7.0

Ident. by J.C.M. Jan. 16, '12

Checked by A.M.C. April 9, 1912



Project PHaEDRA - Annie Jump Cannon 32  
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132

January 27, 1912

Time 12.13 I 37359

[[4 column table]]

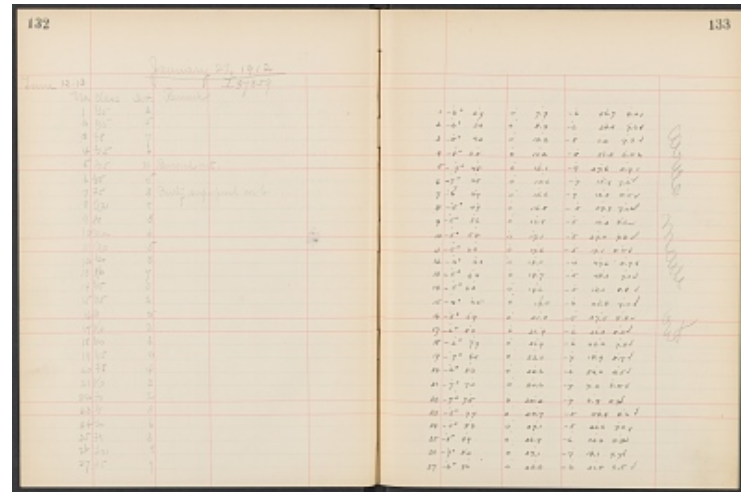
No.	Class	Int.	Remark
1	G5	3	
2	G5	5	
3	F8	7	
4	G5	6	
5	G5	10	Burned out
6	G5	5	
7	F5	3	Partly superposed on 6
8	A2	8	
9	F8	3	
10	Ma	4	
11	A0	5	
12	G0	5	
13	K0	7	
14	G5	3	
15	G5	2	
16	G	2	
17	K0	3	
18	G0	6	
19	G5	2	
20	F8	4	
21	K0	3	
22	F0	2	
23	G	3	
24	G0	6	
25	F8	3	
26	F2	8	
27	F5	7	

133

Cards Made Out

[[5 column table]]

1	-6° 29	0 7.9	-6 56.7	8.0
2	-6° 30	0 8.4	-6 24.3	7.6
3	-8° 42	0 12.2	-8 1.2	7.3
4	-8° 38	0 11.2	-8 51.2	6.5
5	-9° 48	0 12.1	-9 37.6	3.9
6	-7° 48	0 15.6	-7 15.9	7.6
7	- <del>[[striketrough]] 6</del> <del>[[/striketrough]]</del> 7 47   0 15.6   -7 10.3   8.5			
8	-5° 49	0 14.8	-5 59.9	7.0
9	-5° 56	0 16.8	-5 18.2	8.6
10	-5° 58	0 17.1	-5 27.0	7.8
11	-5° 60	0 17.6	-5 19.1	8.5



12	-4° 43	0 18.0	-4 47.6	8.7
13	-5° 64	0 19.7	-5 48.3	7.0
14	-5° 63	0 19.6	-5 13.0	8.8
15	-4° 45	0 19.5	-4 45.8	9.0
16	-5° 69	0 21.3	-5 37.5	8.8
17	-6° 80	0 21.9	-6 26.3	8.3
18	-6° 79	0 21.9	-6 42.2	7.8
19	-7° 63	0 22.0	-7 18.9	8.7
20	-6° 83	0 22.6	-6 54.0	8.5
21	-7° 73	0 24.6	-7 7.2	8.5
22	-7° 75	0 25.2	-7 0.9	8.9
23	-5° 77	0 24.7	-5 58.8	8.6
24	-5° 83	0 27.1	-5 20.6	7.0
25	-6° 89	0 26.9	-6 32.2	8.8
26	-7° 82	0 27.1	-7 18.1	7.7
27	-6° 96	0 28.6	-6 21.8	6.5

Project PHaEDRA - Annie Jump Cannon 32  
 Transcribed and Reviewed by Digital Volunteers  
 Extracted Aug-30-2022 03:45:05

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January 27, 1912 (cont.)

I 37359

[[4 column table]]

No. | Class | Int. | Remark

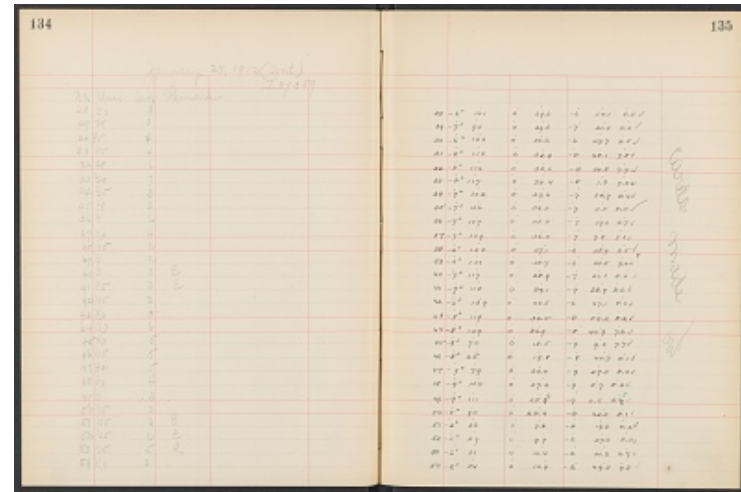
28	G0	3	
29	F8	3	
30	F5	4	
31	G5	4	
32	F8	6	
33	G0	7	
34	G5	3	
35	F8	3	
36	G	2	
37	K0	4	
38	G5	2	
39	G	2	
40	G	3	E
41	F5	3	E
42	G5	3	
43	K0	3	
44	A3	6	
45	K0	5	
46	G5	5	
47	F2	5	
48	F0	4	
49	G	3	
50	G5	3	
51	G5	3	E
52	G5	2	E
53	G5	5	E
54	K0	3	

135

Cards Made Out

[[5 column table]]

28	-6° 101	0 29.6	-6 54.1	8.5
29	-7° 90	0 29.6	-7 21.4	8.3
30	-6° 103	0 30.6	-6 47.7	8.5
31	-8° 110	0 32.4	-8 48.1	7.8
32	-8° 114	0 33.0	-8 26.8	7.7
33	-8° 117	0 33.4	-8 1.3	7.0
34	-7° 102	0 33.6	-7 54.7	8.4
35	-7° 106	0 34.8	-7 2.5	8.5
36	-7° 107	0 35.3	-7 39.6	8.7
37	-7° 109	0 36.0	-7 7.8	7.8
38	-6° 124	0 37.1	-6 25.7	8.5
39	-6° 131	0 38.7	-6 26.5	9.0
40	-7° 117	0 38.9	-7 21.3	8.3



41	-7° 118	0 39.1	-7 28.9	8.6
42	-6° 139	0 40.5	-6 47.1	8.0
43	-8° 119	0 34.5	-8 53.2	8.2
44	-8° 129	0 36.9	-8 40.9	7.6
45	-9° 70	0 18.5	-9 9.3	7.7
46	-8° 65	0 19.8	-8 40.7	8.1
47	-9° 79	0 20.0	-9 27.3	8.0
48	-9° 106	0 27.3	-9 5.7	8.3
49	-9° 111	0 28.	<del>3</del> 4	-9 0.5   8.
	<del>7</del>	<del>5</del>		
50	-8° 93	0 28.4	-8 42.0	8.1
51	-2° 26	0 9.2	-2 19.3	8.2
52	-2° 29	0 9.7	-2 27.6	8.3
53	-2° 31	0 10.4	-2 40.2	6.7
54	-2° 34	0 10.9	-2 49.3	7.3

Project PHaEDRA - Annie Jump Cannon 32  
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January 27, 1912 (cont.)

I 37359

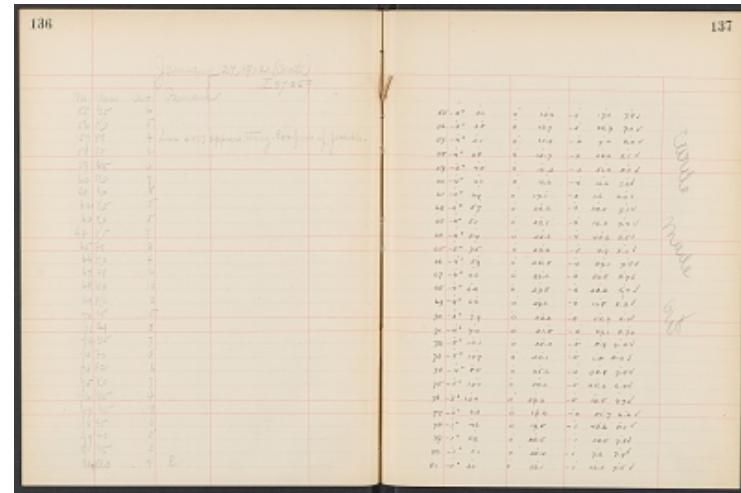
[[4 column table]]

No.	Class	Int.	Remark
55	G5	6	
56	K0	5	
57	F8	4	Line 4077 appears strong. Confirm if possible.
58	F8	2	
59	G5	4	
60	A0	7	
61	K0	8	
62	K5	5	
63	K0	5	
64	K5	7	
65	F8	3	
66	K0	4	
67	F8	2	
68	G0	10	
69	K0	3	
70	F5	5	
71	B9	3	
72	G5	7	
73	F0	3	
74	F2	6	
75	K0	7	
76	G5	4	
77	G5	8	
78	F5	3	
79	F0	5	
80	G5	3	
81	A3	7	E

137

Cards Made Out  
[[5 column table]]

55	-3° 36	0 12.4	-3 17.0	7.8
56	-3° 38	0 13.7	-3 42.9	7.0
57	-4° 31	0 13.8	-4 7.0	8.0
58	-4° 38	0 15.7	-4 24.4	8.5
59	-3° 48	0 16.2	-3 51.4	8.0
60	-4° 40	0 16.6	-4 16.6	7.6
61	-3° 49	0 17.1	-3 1.6	6.0
62	-3° 57	0 22.2	-3 38.5	7.1
63	-4° 51	0 22.1	-4 16.3	7.4
64	-4° 54	0 22.6	-4 45.2	5.5
65	-5° 75	0 24.2	-5 4.9	8.0
66	-4° 59	0 25.8	-4 39.1	7.5
67	-4° 60	0 26.0	-4 50.5	8.7
68	-4° 62	0 27.8	-4 23.2	5.0





69	-4° 64	0 29.6	-4 11.8	8.2
70	-3° 79	0 32.2	-3 52.6	8.0
71	-4° 70	0 31.8	-4 47.1	8.7
72	-5° 101	0 33.3	-5 8.9	6.3
73	-5° 107	0 34.1	-5 1.8	8.3
74	-4° 85	0 35.6	-4 38.8	7.5
75	-5° 120	0 38.0	-5 25.3	6.5
76	-5° 124	0 39.3	-5 12.5	7.9
77	-0° 63	0 19.2	-0 51.7	6.2
78	-1° 46	0 19.5	-1 43.2	8.0
79	-1° 52	0 22.5	-1 54.5	7.8
80	-1° 51	0 22.4	-1 7.6	7.7
81	-1° 60	0 26.1	-1 26.3	7.5

Project PHaEDRA - Annie Jump Cannon 32  
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January 27, 1912 (cont.)

I 37359

[[4 column table]]

No. | Class | Int. | Remark

82	A0	8	
83	F0	3	
84	F8	4	
85	F2	10	
86	K0	5	
87	F0	4	
88	F5	3	
89	G5	3	

[[~~90~~]]

Time 12.34

139

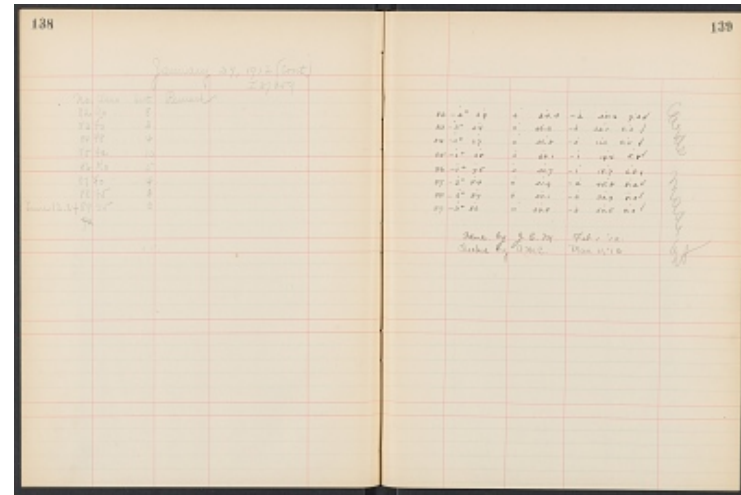
Cards Made Out

[[5 column table]]

82	-2° 69	0 24.3	-2 35.4	7.3
83	-3° 64	0 26.2	-3 32.1	8.3
84	-3° 67	0 26.8	-3 11.6	8.5
85	-1° 68	0 28.1	-1 19.4	5.8
86	-1° 75	0 30.7	-1 18.7	6.8
87	-2° 84	0 31.9	-2 45.8	8.2
88	-2° 87	0 33.1	-2 33.9	8.3
89	-3° 86	0 34.8	-3 50.5	8.3

Ident. by J.C.M. Feb. 1, '12

Checked by A.M.C. Mar. 11, '12



Project PHaEDRA - Annie Jump Cannon 32  
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140

January 27, 1912

Time 12.42 B 17321

[[4 column table]]

No.	Class	Int.	Remark
1	K0	3	
2	Ma	5	
3	<del>[[/del]]</del>	<del>A</del>	<del>[[/del]] B9</del>   2
4	G5	4	
5	Ma	2	
6	F8	4	
7	G5	5	
8	K5	3	
9	G5	3	
10	K0	4	
11	B8	8	
12	K0	3	
13	K	1	
14	K0	5	
15	G5	3	
16	K0	2	
17	F5	5	
18	Ma	8	
19	K	2	
20	A3	5	E Focus poor
21	K0	7	
22	G	3	
23	K5	2	
24	G5	7	
25	G5	9	
26	Ma	8	
<del>[[/del]] 27</del> <del>[[/del]]</del>			

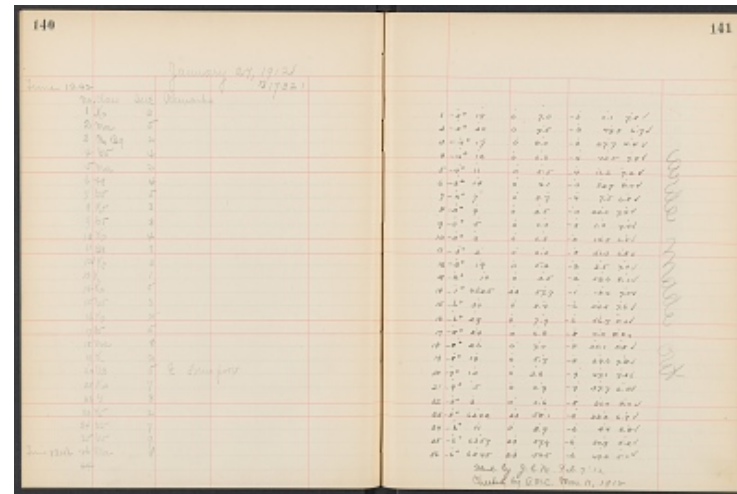
Time 12.46

141

Cards Made Out

[[5 column table]]

1	-3° 18	0 7.0	-3 0.1	7.8
2	-3° 20	0 7.5	-3 49.8	6.7
3	-4° 17	0 8.0	-4 27.7	8.8
4	-4° 12	0 6.6	-4 42.5	7.8
5	-4° 11	0 5.5	-4 11.2	7.2
6	-3° 14	0 4.1	-3 52.7	8.0
7	-4° 7	0 3.7	-4 7.5	6.8



8	-3° 9	0 2.5	-3 22.0	7.4
9	-3° 5	0 1.3	-3 1.4	7.4
10	-3° 3	0 0.8	-3 14.8	6.5
11	-3° 2	0 0.3	-3 21.3	6.8
12	-2° 19	0 5.2	-2 2.5	7.0
13	-2° 10	0 3.5	-2 52.6	8.1
14	-1° 4525	23 57.7	-1 18.4	7.0
15	-6° 30	0 8.4	-6 24.3	7.6
16	-6° 29	0 7.9	-6 56.7	8.0
17	-8° 24	0 6.8	-8 0.0	8.0
18	-8° 26	0 7.0	-8 35.1	5.8
19	-8° 18	0 5.7	-8 29.6	7.8
20	-9° 13	0 2.6	-9 47.1	7.3
21	-9° 5	0 0.9	-9 37.7	6.5
22	-8° 3	0 0.6	-8 21.0	8.0
23	-8° 6242	23 58.1	-8 28.2	6.7
24	-6° 11	0 2.9	-6 3.4	6.8
25	-6° 6357	23 57.9	-6 30.9	5.2
26	-6° 6345	23 54.5	-6 49.2	5.0

Ident. by J.C.M. Feb. 7, '12  
 Checked by A.M.C. Mar. 11, 1912

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January 27, 1912

Time 2:27 B 14808

[[4 column table]]

No. | Class | Int. | Remark

1	K5	5	E
2	K0	4	
3	G	2	
4	A	2	
5	G5	6	
6	K0	7	
7	F	2	E
8	F	6	E
9	G	2	E
10	K0	4	E
11	G	1	
12	F5	3	
13	F5	5	
14	K0	4	
15	F8	3	
16	F0	6	
17	A5	2	
18	G0	7	
19	F8	2	
20	F0	4	
21	G5	7	
22	A2	7	
23	A0	5	
24	F5	7	
25	A5	8	E
26	K0	6	
27	K	2	

143

Cards Made Out

[[5 column table]]

1	-3° 99	0 40.2	-3 6.6	7.0
2	-4° 95	0 40.7	-4 30.3	8.0
3	-4° 97	0 41.2	-4 39.7	9.0
4	-5° 128	0 40.3	-5 17.7	9.2
5	-5° 124	0 39.3	-5 12.5	7.9
6	-5° 120	0 38.0	-5 25.3	6.5
7	-5° 116	0 36.9	-5 11.3	8.5
8	-4° 85	0 35.6	-4 38.8	7.5
9	-7° 106	0 34.8	-7 2.5	8.5
10	-7° 109	0 36.0	-7 7.8	7.8
11	-6° 124	0 37.1	-6 25.7	8.5

142	January 27, 1912										143
Serial	Altitude	Wind	Direction	Baromet							
1	150	5	E								
2	150	4									
3	150	2									
4	150	2									
5	150	6									
6	150	7									
7	150	7									
8	150	3									
9	150	3									
10	150	1									
11	150	1									
12	150	1									
13	150	1									
14	150	1									
15	150	1									
16	150	1									
17	150	1									
18	150	1									
19	150	1									
20	150	1									
21	150	1									
22	150	1									
23	150	1									
24	150	1									
25	150	1									
26	150	1									
27	150	1									
28	150	1									
29	150	1									
30	150	1									
31	150	1									

12	-7°	117	0 38.9	-7 21.3	8.3
13	-7°	118	0 39.1	-7 28.9	8.6
14	-6°	139	0 40.5	-6 47.1	8.0
15	-5°	134	0 43.0	-5 55.1	8.5
16	-6°	148	0 43.2	-6 6.1	8.0
17	-6°	146	0 43.1	-6 16.8	8.9
18	-5°	138	0 43.8	-5 49.4	7.2
19	-5°	139	0 43.8	-5 58.3	8.5
20	-4°	105	0 44.4	-4 52.4	8.5
21	-5°	147	0 46.3	-5 18.4	6.5
22	-3°	113	0 44.2	-3 56.0	7.3
23	-4°	112	0 48.3	-4 46.8	8.7
24	-4°	114	0 48.7	-4 31.3	7.3
25	-3°	132	0 49.4	-3 30.9	7.0
26	-2°	131	0 50.4	-2 32.6	6.5
27	-2°	132	0 51.1	-2 26.4	8.2

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January 27, 1912 (cont)

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[[4 column table]]

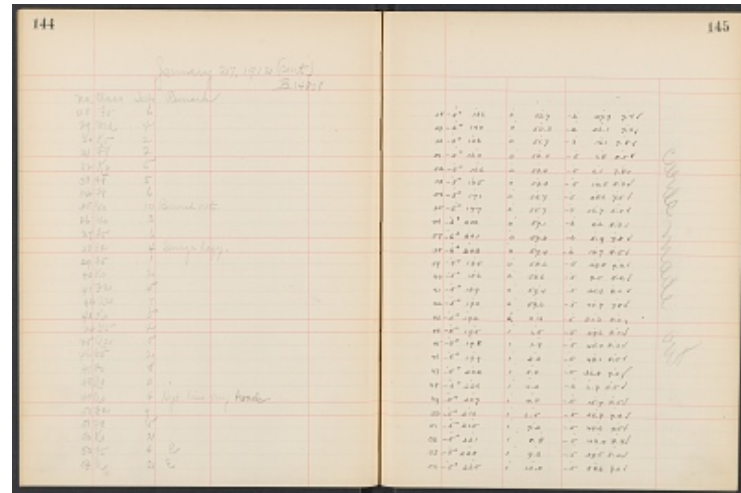
No.	Class	Int.	Remark
28	75	6	
29	Ma	4	
30	K5	2	
31	F8	2	
32	K0	5	
33	F8	5	
34	F8	6	
35	G0	10	Burned out.
36	G0	3	
37	F5	6	
38	F2	4	Image hazy.
39	F5	1	
40	K0	2	
41	F2	5	
42	A2	7	
43	K0	5	
44	G5	4	
45	A2	5	
46	G5	2	
47	F0	8	
48	A3	3	
49	A0	4	Hyd. lines very broad.
50	F2	7	
51	F8	5	
52	K0	2	
53	F5	4	E
54	A	2	E

145

Cards Made Out

[[5 column table]]

28	-2° 136	0 52.7	-2 47.9	7.4
29	-2° 140	0 53.3	-2 26.1	7.4
30	-3° 136	0 51.7	-3 14.1	7.8
31	-5° 160	0 50.5	-5 1.8	8.5
32	-5° 166	0 52.4	-5 6.1	7.8
33	-5° 165	0 52.3	-5 14.5	8.3
34	-5° 171	0 53.7	-5 25.6	7.5
35	-5° 177	0 55.7	-5 36.7	5.3
36	-6° 200	0 57.1	-6 4.6	8.3
37	-6° 201	0 57.3	-6 5.9	7.8
38	-6° 202	0 57.4	-6 14.7	8.5
39	-5° 185	0 58.6	-5 42.8	9.2
40	-5° 186	0 58.6	-5 4.5	8.2
41	-5° 189	0 59.4	-5 25.3	8.0
42	-5° 190	0 59.6	-5 40.9	7.8
43	-5° 192	1 0.4	-5 31.3	8.0



44	-5° 195	1 1.5	-5 29.6	8.0
45	-5° 198	1 1.9	-5 45.0	8.3
46	-5° 199	1 2.3	-5 48.1	8.5
47	-5° 202	1 3.4	-5 36.8	7.3
48	-6° 226	1 4.2	-6 6.9	8.5
49	-5° 207	1 4.8	-5 15.7	8.5
50	-5° 210	1 6.5	-5 36.9	7.3
51	-5° 215	1 7.2	-5 48.6	7.5
52	-5° 221	1 8.8	-5 43.0	8.4
53	-5° 223	1 9.2	-5 37.5	8.2
54	-5° 225	1 10.3	-5 34.6	9.0

Project PHaEDRA - Annie Jump Cannon 32  
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January 27, 1912 (Cont)

[[4 column table]]

No. | Class | Int. | Remark

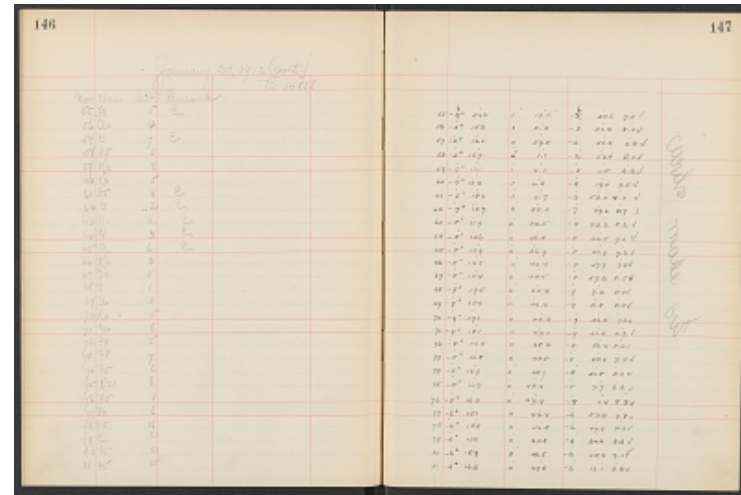
55	F8	5	E
56	A0	4	
57	G	7	E
58	F5	3	
59	K0	8	
60	K0	5	
61	F5	4	E
62	G	2	E
63	K0	2	E
64	G	3	E
65	A	6	E
66	K0	3	
67	G0	5	
68	G	1	
69	G0	3	
70	K0	5	
71	G0	8	
72	F0	5	
73	F8	7	
74	F5	6	
75	K2	8	
76	F5	1	
77	F0	6	
78	F5	1	
79	K	2	
80	F5	2	
81	F5	2	

147

Cards made out [along right margin]

[[5 column table]]

55	-6° 244	1 10.0	-6 23.6	7.8
56	-3° 153	1 0.3	-3 31.0	8.0
57	-2° 160	0 59.8	-2 30.2	6.8
58	-2° 167	1 1.1	-2 50.4	8.0
59	-3° 161	1 4.3	-3 1.5	6.2
60	-3° 164	1 6.0	-3 19.4	7.5
61	-2° 184	1 6.7	-2 53.0	8.3
62	-7° 107	0 35.3	-7 39.6	8.7
63	-8° 119	0 34.5	-8 53.2	8.2
64	-8° 126	0 36.4	-8 22.5	9.0
65	-8° 129	0 36.9	-8 40.9	7.6
66	-8° 145	0 42.4	-8 37.9	7.8



67	-8° 154	0 44.5	-8 57.2	8.5
68	-9° 175	0 45.4	-9 7.2	8.8
69	-9° 175	0 46.4	-9 5.8	8.5
70	-9° 171	0 44.3	-9 36.5	7.6
71	-9° 181	0 47.0	-9 31.2	6.2
72	-8° 165	0 48.4	-8 50.4	8.2
73	-8° 168	0 48.8	-8 48.4	7.8
74	-8° 169	0 48.9	-8 21.8	8.0
75	-8° 167	0 48.4	-8 7.7	6.2
76	-8° 163	0 47.4	-8 1.4	8.8
77	-6° 151	0 44.4	-6 53.8	7.8
78	-6° 153	0 44.8	-6 47.7	8.3
79	-6° 156	0 45.8	-6 24.6	8.6
80	-6° 159	0 46.5	-6 13.1	8.6
81	-6° 162	0 47.8	-6 13.1	8.6

Project PHaEDRA - Annie Jump Cannon 32  
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January 27, 1912 (cont)

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[[4 column table]]

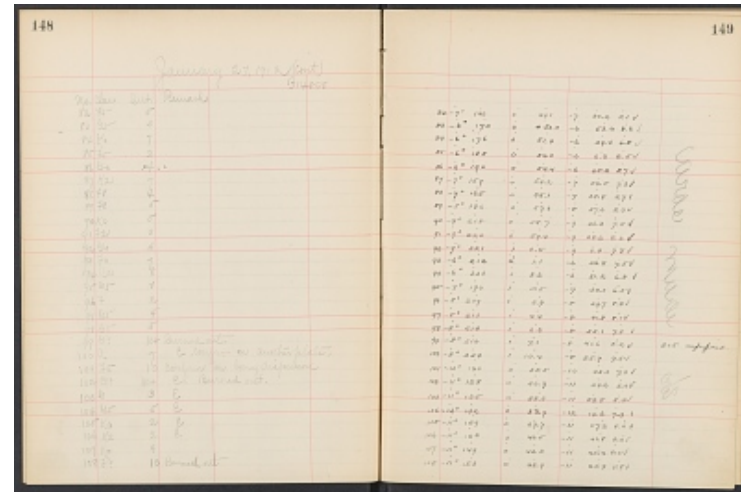
No.	Class	Int.	Remark
82	F5	5	
83	G5	3	
84	K0	7	
85	F5	3	
86	G0	4	
87	K2	7	
88	F8	4	
89	F8	5	
90	K0	5	
91	F2	3	
92	G0	4	
93	F0	7	
94	A2	8	
95	G5	8	
96	F	2	
97	G5	4	
98	G5	5	
99	G2	10+	Burned out
100	A	7	E confirm on another plate
101	F5	10	confirm on long dispersion
102	G2	10+	E burned out
103	G	3	E
104	G5	5	E
105	K0	2	E
106	K2	2	E
107	K0	4	
108	F2	10	Burned out

149

Cards Made Out

[[5 column table]]

82	-7° 146	0 49.1	-7 30.2	8.1
83	-6° 170	0 50.0	-6 53.4	8.6
84	-6° 176	0 51.4	-6 39.4	6.8
85	-6° 188	0 54.0	-6 6.3	8.5
86	-6° 190	0 54.4	-6 45.2	8.7
87	-7° 159	0 54.2	-7 34.5	7.3
88	-7° 165	0 55.1	-7 28.8	8.7
89	-8° 186	0 57.3	-8 27.2	8.3
90	-9° 218	0 58.7	-9 26.3	7.5
91	-9° 220	0 59.4	-9 28.2	8.2
92	-9° 221	1 0.5	-9 0.4	7.8



93	-6° 212	[[ <del>1</del> ]] 2 [[ <del>1</del> ]] 1 1.1	-6 56.8	7.5
94	-6° 220	1 3.2	-6 51.2	6.8
95	-7° 196	1 5.5	-7 33.0	6.5
96	-8° 207	1 2.9	-8 29.7	8.8
97	-8° 210	1 4.4	-8 41.8	8.1
98	-8° 214	1 6.6	-8 23.1	7.8
99	-8° 216	1 7.1	-8 41.6	5.2 215 superposed
100	-8° 224	1 10.4	-8 25.7	7.5
101	-10° 140	0 35.5	-10 43.0	7.0
102	-11° 128	0 36.9	-11 24.6	5.0
103	-11° 135	0 38.3	-11 52.8	8.3
104	-12° 132	0 38.9	-12 14.2	7.3
105	-11° 139	0 39.7	-11 57.2	8.0
106	-11° 142	0 40.5	-11 41.8	8.0
107	-11° 149	0 42.3	-11 45.4	8.0
108	-11° 153	0 42.9	-11 25.9	5.8

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January 27, 1912 (Cont)

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[[ 4 Column Table]]

No.	Class	Int.	Remark
109	F5	6	
110	F2	8	
111	K2	4	
112	F0	3	
113	K0	2	
114	F	2	Poor focus
115	K0	9	
116	A0	6	
117	G5	10	
118	A3	8	
119	F5	2	
120	G5	5	
121	G5	4	
122	G	4	
123	F5	2	
124	K0	3	
125	F5	2	
126	G5	8	
127	A	10	Burned out
128	A2	8	
129	F2	10	Burned out
130	G	10+	Burned out
131	G5	3	Partly superposed on 130 [Trail]
132	K0	4	
133	G5	7	
134	G0	4	
[[/strikethrough]] 136 [[/strikethrough]] 135   K0   6			

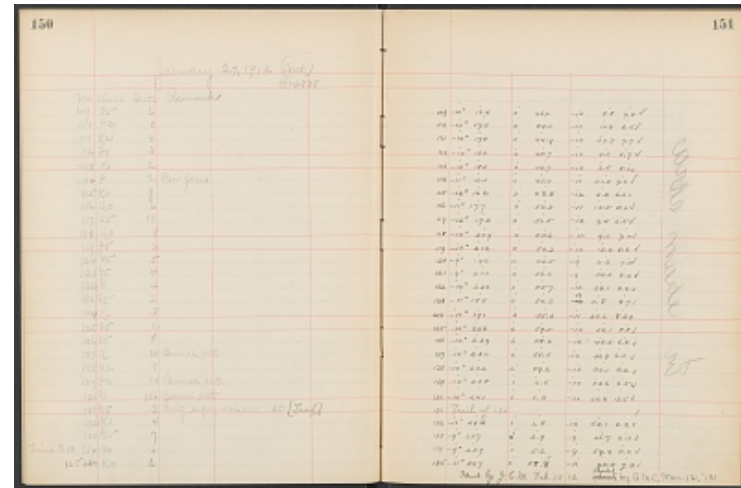
Time 3.10

151

Cards Made Out

[[5 column table]]

109	-10°	164	0 40.6	-10 8.8	7.8
110	-10°	173	0 44.0	-10 11.6	6.5
111	-10°	178	0 44.9	-10 37.7	7.7
112	-10°	180	0 45.7	-10 4.0	8.7
113	-10°	183	0 46.7	-10 6.5	8.6
114	-11°	163	0 45.0	-11 31.4	9.0
115	-12°	162	0 48.8	-12 3.2	6.0
116	-11°	177	0 50.3	-11 15.5	8.0
117	-12°	173	0 51.5	-12 9.4	6.5
118	-10°	209	0 53.6	-10 9.0	7.0
119	-10°	212	0 54.2	-10 12.4	8.6
120	-9°	196	0 52.5	-9 6.2	7.0



121	-9° 210	0 56.6	-9 54.3	8.2
122	-10° 220	0 55.7	-10 38.1	8.4
123	-11° 188	0 54.3	<del>[[/del]] -10 <del>[[/del]]</del> -11 0.8</del>	8.7
124	-11° 191	0 55.0	-11 26.6	8.2
125	-10° 226	0 57.5	-10 50.1	8.8
126	-10° 229	9 58.4	-10 45.5	6.5
127	-10° 230	0 58.8	-10 36.9	6.0
128	-10° 232	0 59.2	-10 32.1	8.2
129	-10° 238	1 0.5	-10 33.6	6.5
130	-10° 240	1 1.3	-10 56.6	3.5
131	Trail of 130			
132	-10° 243	1 1.8	-10 52.1	8.2
133	-9° 227	<del>[[/del]] 0 <del>[[/del]]</del></del>	1 2.9	-9 40.7   6.3
134	-9° 237	1 5.2	-9 59.4	8.0
135	-11° 207	0 58. <del>[[/del]] 8 <del>[[/del]]</del> 9</del>	-11 45.5	7.3

Ident. by J.C.M. Feb. 13, '12  
~~[[/del]]~~ Ident. ~~[[/del]]~~ Checked by A.M.C. Mar. 12, '12

Project PHaEDRA - Annie Jump Cannon 32  
 Transcribed and Reviewed by Digital Volunteers  
 Extracted Aug-30-2022 03:45:05

152

Monday, January 28, 1912

Time 11.13 I 37512

[4 column table]

No. | Class | Int. | Remark

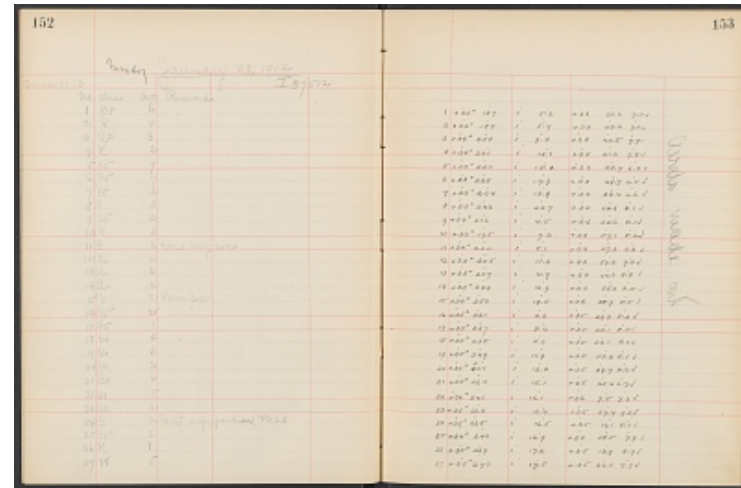
1	B8	6	
2	G	4	
3	A2	3	
4	K	2	
5	G5	7	
6	F5	7	
7	F5	6	
8	F	3	
9	G5	2	
10	G	3	
11	G	2	Focus very poor
12	K	2	
13	A	2	
14	A	2	
15	G	2	Focus poor
16	G5	2	
17	F5	1	
18	G0	4	
19	G0	3	
20	F2	2	
21	B8	6	
22	B9	5	
23	A2	2	
24	G	2	Partly superposed on No. 23
25	G5	2	
26	K	1	
27	F8	5	

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Cards Made Out

[5 column table]

1	+33° 187	1 5.2	+33 20.6	7.0
2	+33° 188	1 5.9	+33 43.6	7.0
3	+34° 224	1 9.4	+34 40.5	7.7
4	+34° 231	1 12.1	+34 21.6	7.8
5	+33° 220	1 15.4	+33 28.7	6.3
6	+33° 228	1 17.9	+33 49.7	6.5
7	+33° 234	1 18.9	+33 36.4	6.6
8	+33° 246	1 22.7	+33 26.6	8.1
9	+34° 206	1 4.5	+34 24.6	8.1
10	+33° 195	1 7.6	+33 57.1	8.2
11	+34° 220	1 8.1	+34 27.3	8.3
12	+33° 205	1 11.4	+33 59.3	7.3
13	+33° 207	1 11.9	+33 44.0	8.8
14	+33° 224	1 16.9	+33 55.0	8.5
15	+34° 250	1 19.5	+34 38.9	8.5
16	+35° 221	1 4.6	+35 29.9	8.2



17		+35°	237		1	8.4		+35	40.1		8.5
18		+35°	238		1	8.6		+35	33.1		8.0
19		+35°	249		1	11.9		+35	53.2		8.1
20		+35°	<del>3</del>		<del>251</del>		1	12.4		+35	39.7   8.6
21		+35°	260		1	15.1		+35	45.4		6.7
22		+36°	241		1	16.1		+36	7.5		7.3
23		+35°	264		1	16.4		+35	27.7		9.2
24		+35°	265		1	16.5		+35	19.1		8.0
25		+34°	243		1	16.9		+34	58.5		7.9
26		+35°	269		1	17.2		+35	12.9		8.7
27		+35°	270		1	17.5		+35	36.0		7.7

Project PHaEDRA - Annie Jump Cannon 32  
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January 28, 1912 (cont.)  
I 37512

[[4 column table]]

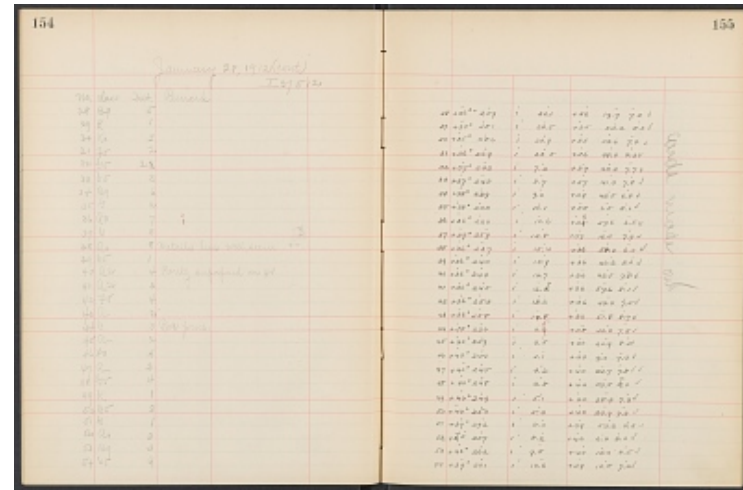
No.	Class	Int.	Remark
28	B9	5	
29	K	1	
30	K0	3	
31	F5	2	
32	G5	<del>[[/strikethrough]]</del> 3	<del>[[/strikethrough]]</del> 2
33	G5	3	
34	B9	6	
35	G	2	
36	A3	7	
37	G	3	
38	A0	8	Metallic lines well seen
39	G5	1	
40	A2	4	Partly superposed on 41
41	A2	3	
42	F8	4	
43	A	2	
44	G	3	Poor focus
45	A	2	
46	F0	4	
47	A	3	
48	G5	4	
49	K	1	
50	G5	3	
51	G	1	
52	A0	3	
53	B9	3	
54	G5	4	

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Cards Made Out

[[5 column table]]

28	+36° 259	1 20.1	+36 19.7	7.3
29	+35° 281	1 20.5	+35 53.2	8.3
30	+35° 282	1 20.9	+35 52.6	7.4
31	+36° 269	1 23.5	+36 48.0	8.3
32	+37° 242	1 7.2	+37 43.2	7.7
33	+37° 248	1 8.7	+37 41.3	7.8
34	+38° 229	1 9.0	+38 42.5	6.8
35	+38° 233	1 10.1	+38 1.5	8.1
36	+36° 220	1 10.6	+3 <del>[[/strikethrough]]</del> 5	<del>[[/strikethrough]]</del> 6 37.6
37	+37° 259	1 12.8	+37 16.3	7.9
38	+36° 237	1 15.4	+36 58.0	6.0
39	+36° 240	1 15.9	+36 46.2	8.0



40 | +36° 244 | 1 16.7 | +36 42.5 | 7.8  
 41 | +36° 255 | 1 16. ~~8~~ ~~7~~ | +36 57.6 |  
 8.1  
 42 | +36° 253 | 1 18.6 | +36 44.4 | 7.5  
 43 | +36° 258 | 1 19.8 | +36 51.8 | 8.7  
 44 | +38° 220 | 1 6. ~~6~~ ~~5~~ | +38 40.4 | 7.5  
 45 | +40° 239 | 1 3.8 | +40 20.9 | 8.3  
 46 | +40° 244 | 1 4.1 | +40 9.0 | 7.3  
 47 | +40° 245 | 1 4.2 | +40 32.7 | 7.8  
 48 | +40° 248 | 1 4.8 | +40 53.8 | ~~8~~ ~~7.0~~  
 49 | +40° 249 | 1 5.1 | +40 28.9 | 7.3  
 50 | +40° 250 | 1 5.3 | +40 23.7 | 7.3  
 51 | +39° 292 | 1 8.0 | +39 53.2 | 8.3  
 52 | + ~~3~~ ~~40° 259~~ | 1 8.2 | +40 6.4 | 8.0  
 53 | +40° 262 | 1 9.5 | +40 15.0 | 8.5  
 54 | +39° 301 | 1 10.6 | +39 10.8 | 7.2

Project PHaEDRA - Annie Jump Cannon 32  
 Transcribed and Reviewed by Digital Volunteers  
 Extracted Aug-30-2022 03:45:05

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January 28, 1912 (cont.)  
I 37512

[[4 column table]]

No. | Class | Int. | Remark

55	G	2	
56	G5	1	
57	A0	2	
58	G	2	
59	G	2	Partly superposed
60	F0	3	
61	B9	5	
62	A3	5	
63	A5	3	
64	A2	2	E
65	G0	5	
66	F5	2	
67	F0	5	
68	K0	3	
69	G5	2	E
70	B5	5	
71	B9	5	
72	F8	6	
73	F0	4	E
74	F0	5	
75	F8	5	
76	F5	4	
77	G5	2	
78	F	8	E
79	G	8	E

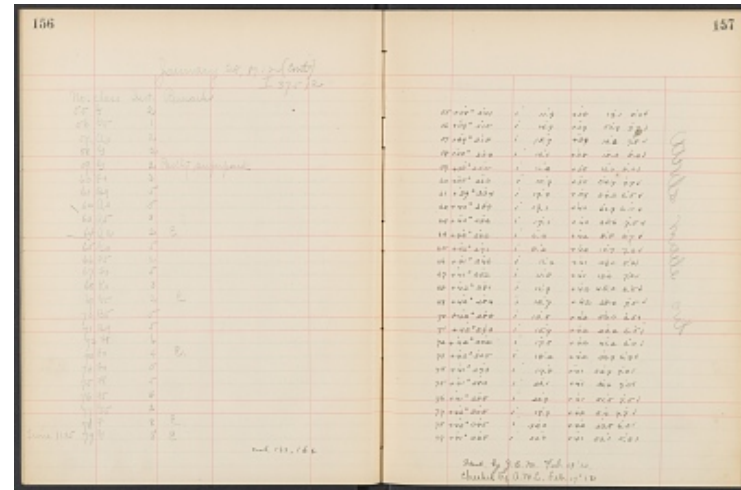
Time 11.35  
cont. 133, 164

157

Cards Made Out

[[5 column table]]

55	+38° 241	11.9	+38 19.1	8.0
56	+39° 315	14.9	+39 50.9	7.7
57	+39° 318	15.7	+39 10.2	7.8
58	+38° 254	16.1	+38 18.3	8.2
59	+38° 255	16.2	+38 16.0	8.0
60	+38° 263	18.9	+38 54.7	7.7
61	+39° 334	19.4	+39 34.3	6.5
62	+40° 289	19.1	+40 20.9	6.0
63	+40° 282	17.1	+40 35.6	7.5
64	+42° 262	16.4	+42 8.8	8.7
65	+42° 271	18.2	+42 10.7	7.0



66	+41° 246	1 11.4	+41 49.0	8.4
67	+41° 252	1 11.8	+41 12.6	7.0
68	+42° 281	1 11.9	+42 45.0	6.5
69	+42° 284	1 12.7	+42 28.4	7.5
70	+42° 288	1 13.8	+42 50.0	6.5
71	+42° 293	1 15.9	+42 23.2	6.5
72	+42° 302	1 17.8	+42 41.2	6.0
73	+42° 305	1 18.2	+42 56.9	6.9
74	+41° 273	1 17.8	+41 32.9	7.3
75	+41° 283	1 20.1	+41 30.4	7.0
76	+41° 288	1 20.9	+41 31.5	7.5
77	+42° 308	1 19.9	+42 2.4	7.7
78	+42° 345	1 32.0	+42 33.8	6.0
79	+41° 328	1 33.0	+41 53.1	5.3

Ident. by J.C.M. Feb. 13, '12.  
 Checked by A.M.C. Feb. 17, '12

Project PHaEDRA - Annie Jump Cannon 32  
 Transcribed and Reviewed by Digital Volunteers  
 Extracted Aug-30-2022 03:45:05

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January 29, 1912

Time 12:40 I 37403  
[4 column table]

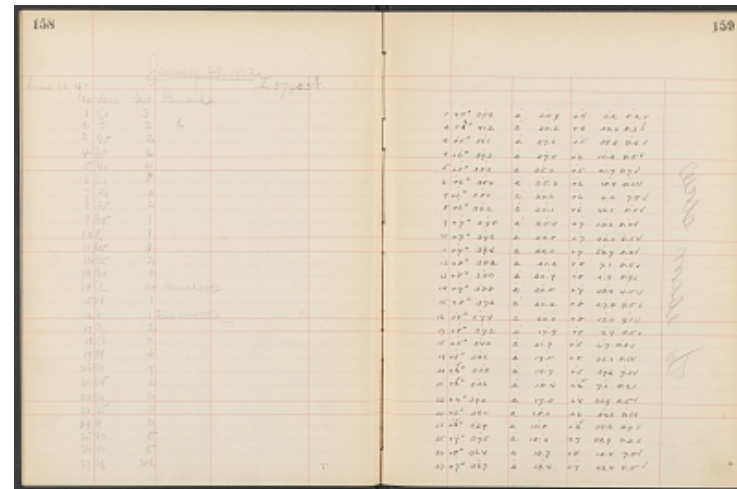
No.	Class	Int.	Remark
1	K0	3	
2	G	2	E
3	G5	2	
4	F5	2	
5	G0	2	
6	A0	5	
7	K0	4	
8	F5	2	
9	G5	1	
10	K	1	
11	G5	3	
12	G5	2	
13	G0	2	
14	A	10+	Burned out
15	F8	1	
16	G	1	Film scratched
17	A	2	
18	K0	3	
19	F8	4	
20	F2	7	
21	G5	2	
22	F0	2	
23	G5	2	
24	G	2	
25	F0	5	
26	F0	5	
27	F0	<del>1</del> <del>2</del>	

159

Cards made Out

[5 column table]

1	+5° 356	2 25.9	+5 3.2	8.2
2	+ <del>5° 356</del>	2 25.9	+5 <del>3.2</del>	8.2
3	+5° 361	2 27.0	+5 38.3	8.4
4	+6° 393	2 27.5	+6 10.2	8.5
5	+5° 353	2 25.0	+5 41.7	8.7
6	+6° 384	2 25.3	+6 18.4	8.0
7	+6° 380	2 24.6	+6 4.2	7.8
8	+6° 382	2 25.1	+6 4.2	7.8
9	+7° 398	2 25.3	+7 15.0	8.5
10	+7° 396	2 23.8	+7 42.0	8.5
11	+7° 394	2 22.0	+7 50.7	8.3
12	+8° 382	2 21.2	+8 7.1	8.5
13	+8° 380	2 20.9	+8 0.3	8.9
14	+7° 388	2 20.5	+7 48.4	4.5



15		+8°	376		2	20.2		+8	27.8		9.5
16		+8°	374		2	20.0		+8	12.0		9.1
17		+8°	372		2	17.9		+8	3.9		8.5
18		+5°	343		2	21.9		+5	6.7		8.3
19		+5°	340		2	19.5		+5	35.1		8.5
20		+	<del>6</del>		<del>5°</del>	338		2	18.7		+5 37.6   7.5
21		+	<del>6</del>		<del>5°</del>	336		2	18.4		+
			<del>6</del>		<del>5</del>	7.1		8.2			
22		+4°	392		2	17.3		+4	21.9		8.5
23		+6°	360		2	18.0		+6	34.6		8.5
24		+	<del>6</del>		<del>5°</del>	329		2	15.8		+
			<del>6</del>		<del>5</del>	55.6		8.7			
25		+7°	375		2	15.2		+7	52.9		8.2
26		+8°	364		2	13.7		+8	12.5		7.8
27		+7°	367		2	13.4		+7	43.4		8.5

Project PHaEDRA - Annie Jump Cannon 32  
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January 29, 1910 (cont)

I 37403

[[4 column chart]]

No. | Class | Int. | Remark

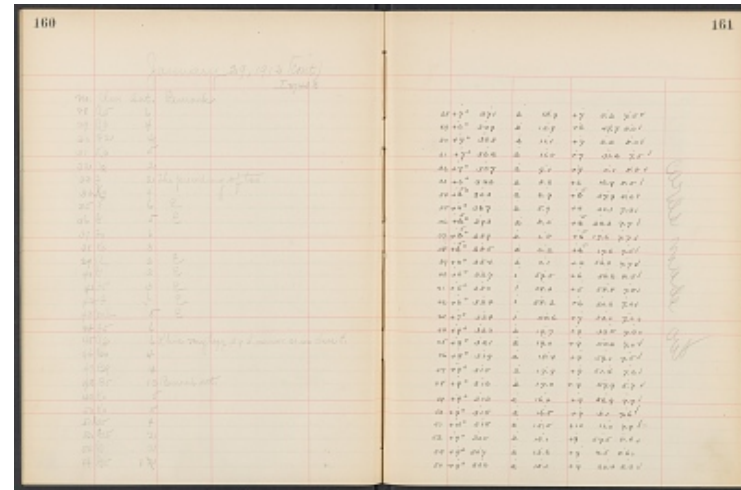
28	A5	6	
29	A3	4	
30	F2	4	
31	K0	5	
32	A0	2	
33	F	2	The preceeding of two
34	K0	4	
35	F	6	E
36	G	5	E
37	F0	6	
38	K0	3	
39	A	3	E
40	G	3	E
41	F5	3	E
42	F	6	E
43	Mb	5	E
44	F5	6	
45	A2	6	K line very hazy by beta & delta narrow as in class F.
46	G0	4	
47	B9	4	
48	B5	10	Burned out.
49	K0	5	
50	K0	5	
51	G5	4	
52	G5	2	
53	G	2	
54	[[/strickethrough]]2[[/strickethrough]] 1		

161

Cards made out

[[5 column chart]]

28	+7° 371	2 13.9	+7 5.2	7.5	[[checkmark]]
29	+6° 349	2 12.9	+6 47.7	8.0	[[checkmark]]
30	+7° 363	2 11.1	+7 2.2	8.0	[[checkmark]]
31	+7° 362	2 11.0	+7 31.2	7.5	[[checkmark]]
32	+7° 357	2 9.1	+7 0.1	8.8	[[checkmark]]
33	+6° 342	2 8.6	+6 16.9	8.5	[[checkmark]]
34	+[[/strickethrough]]6[[/strickethrough]]5° 303   2 6.9				
	+[[/strickethrough]]6[[/strickethrough]]5 57.9   8.0				
35	+4° 367	2 5.9	+4 20.1	7.3	[[checkmark]]
36	+[[/strickethrough]]6[[/strickethrough]]5° 293   2 3.0				
	+[[/strickethrough]]6[[/strickethrough]]5 24.3   7.7				
37	+[[/strickethrough]]6[[/strickethrough]]5° 289   2 1.8				
	+[[/strickethrough]]6[[/strickethrough]]5 17.6   7.7				



38		+	<del>6</del>		5° 285		2 0.2	
			<del>6</del>		5 17.6		7.5	[[checkmark]]
39		+	4° 354		2 0.1		+4 56.4	7.7 [[checkmark]]
40		+	6° 327		1 59.5		+6 36.6	8.5 [[checkmark]]
41		+	5° 280		1 58.3		+5 58.8	7.8 [[checkmark]]
42		+	6° 324		1 58.2		+6 20.6	7.0 [[checkmark]]
43		+	7° 324		1 58.6		+7 33.0	7.0 [[checkmark]]
44		+	9° 323		2 19.7		+9 33.5	7.3 [[checkmark]]
45		+	9° 321		2 19.0		+9 55.2	7.0 [[checkmark]]
46		+	9° 319		2 18.4		+9 59.1	7.5 [[checkmark]]
47		+	9° 318		2 17.9		+9 51.4	7.6 [[checkmark]]
48		+	9° 316		2 17.0		+9 57.9	5.7 [[checkmark]]
49		+	9° 313		2 16.4		+9 36.9	7.7 [[checkmark]]
50		+	9° 315		2 16.8		+9 3.1	7.6 [[checkmark]]
51		+	10° 318		2 15.5		+10 11.0	7.9 [[checkmark]]
52		+	9° 305		2 13.1		+9 57.5	8.4 [[checkmark]]
53		+	9° 307		2 13.6		+9 4.5	8.6 [[checkmark]]
54		+	9° 306		2 13.1		+9 20.4	8.3 [[checkmark]]

Project PHaEDRA - Annie Jump Cannon 32  
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January 29, 1912 (cont)

137403

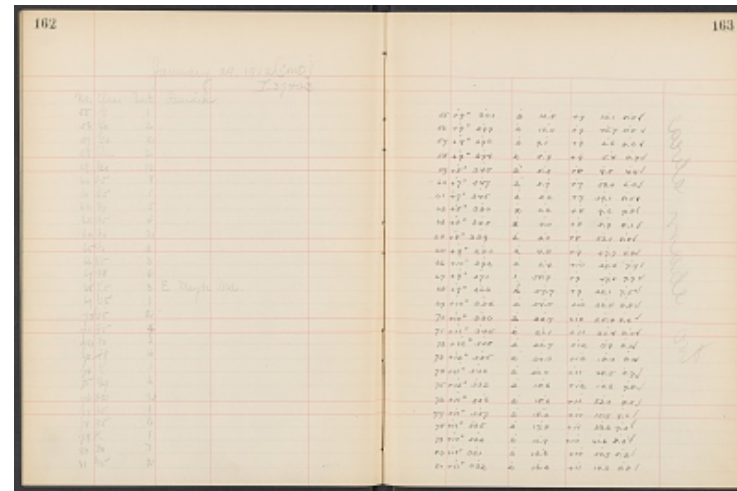
[[4 column table]]

No.	Class	Int.	Remark
55	G	1	
56	G0	2	
57	G0	2	
58	A	2	
59	G0	10	
60	F5	8	
61	G5	1	
62	A0	5	
63	F5	4	
64	F0	2	
65	F0	3	
66	K5	3	
67	F8	4	
68	K5	3	E Maybe Ma.
69	G5	1	
70	G5	2	
71	F5	4	
72	F0	3	
73	F8	4	
74	K	1	
75	B9	6	
76	F2	2	
77	F5	1	
78	F5	6	
79	K	1	
80	F0	3	
81	G5	2	

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Cards made out  
[[5 column table]]

55	+9° 301	2 10.8	+9 10.1	8.5
56	+9° 299	2 10.0	+9 45.7	8.8
57	+9° 296	2 9.1	+9 6.6	8.6
58	+9° 294	2 8.9	+9 5.4	8.7
59	+8° 345	2 5.3	+8 9.8	4.6
60	+7° 347	2 3.7	+7 53.4	6.3
61	+7° 345	2 3.2	+7 39.1	8.5
62	+8° 330	2 0.6	+8 8.9	7.8
63	+8° 328	2 0.0	+8 8.9	8.1
64	+8° 339	2 4.0	+8 53.1	8.8
65	+9° 280	2 4.8	+9 37.7	8.4
66	+10° 292	2 0.4	+10 29.4	7.9
67	+9° 271	1 58.9	+9 47.8	7.7



68	+9° 266	1 57.7	+9 22.1	7.5
69	+10° 334	2 24.5	+10 26.8	8.8
70	+10° 330	2 22.7	+10 25.4	8.4
71	+11° 345	2 21.1	+11 21.4	8.0
72	+12° 338	2 20.7	+12 5.9	8.2
73	+12° 335	2 20.0	+12 18.3	8.0
74	+11° 340	2 20.0	+11 48.5	8.7
75	+12° 332	2 18.6	+12 14.6	7.8
76	+11° 336	2 18.0	+11 52.3	8.5
77	+11° 337	2 18.2	+11 15.9	9.0
78	+11° 335	2 17.8	+11 20.2	7.3
79	+10° 322	2 16.9	+10 41.6	8.3
80	+10° 321	2 16.6	+10 50.7	8.2
81	+11° 332	2 16.2	+11 14.2	8.8

Project PHaEDRA - Annie Jump Cannon 32  
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January 29, 1912 (cont.)  
I 37403

[[4 column table]]

No.	Class	Int.	Remark
82	G0	2	
83	F0	4	
84	G0	2	
85	G5	5	
86	A5	4	
87	G5	4	
88	G	2	Poor focus
89	N	1	0.6, 10
90	A0	5	
91	A0	4	
92	G	2	Focus very poor
93	G5	2	
94	G5	2	
95	G0	2	
96	B9	6	
97	K0	5	
98	F	4	E Focus very poor
99	F5	3	
100	A	3	
101	K0	2	
102	F0	4	
103	K	1	
104	A0	3	
105	K0	5	
106	G	<del>[[/strickethrough]]</del>	0 <del>[[/strickethrough]]</del> 5   5
107	K5	6	E
<del>[[/strickethrough]] 108 <del>[[/strickethrough]]</del></del>			

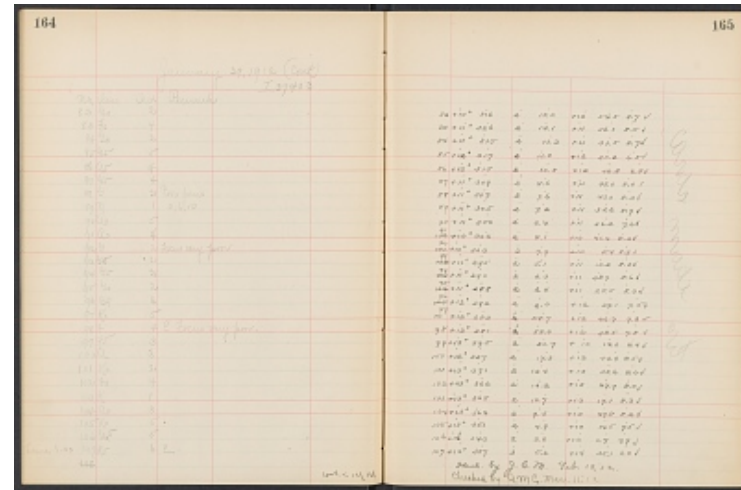
Time 1.00  
Cont. in 129, 168

165

Cards Made Out

[[5 column table]]

82	+10° 316	2 15.0	+10 54.5	8.7
83	+11° 326	2 14.1	+11 36.1	8.5
84	+11° 315	2 11.2	+11 31.5	8.7
85	+12° 317	2 11.0	+12 20.2	6.5
86	+12° 315	2 10.3	+12 46.8	6.8
87	+11° 309	2 8.6	+11 43.0	8.0
88	+11° 307	2 7.6	+11 43.0	8.3
89	+11° 305	2 7.2	+11 33.6	8.9
90	+11° 300	2 6.4	+11 36.2	7.6
<del>[[/strickethrough]] 100 <del>[[/strickethrough]]</del> 91   +10° 306   2 8.1   +10 41.4  </del>				
8.2				
<del>[[/strickethrough]] 101 <del>[[/strickethrough]]</del> 92   +10° 303   2 7.9   +10 5.4   8.9</del>				



~~102~~ 93 | +11° 295 | 2 5.1 | +11 10.2 |  
 8.3  
~~103~~ 94 | +11° 290 | 2 3.3 | +11 38.9 |  
 8.6  
~~104~~ 95 | +11° 288 | 2 2.4 | +11 25.5 |  
 8.3  
~~105~~ 96 | +12° 292 | 2 2.0 | +12 29.1 |  
 7.5  
~~10~~ 97 | +12° 282 | ~~2~~  
~~1~~ 58.7 | +12 46.7 | 7.3  
 98 | +12° 281 | ~~2~~ 1 58.0 | +12 38.5 | 7.8  
 99 | +13° 395 | 2 20.7 | +13 14.0 | 8.4  
 100 | +12° 327 | 2 17.3 | +12 44.4 | 8.5  
 101 | +13° 371 | 2 12.4 | +13 38.6 | 8.0  
 102 | +13° 366 | 2 10.2 | +13 47.7 | 8.0  
 103 | +13° 368 | 2 10.7 | +13 17.1 | 8.3  
 104 | +13° 364 | 2 9.4 | +13 47.8 | 8.2  
 105 | +13° 351 | 2 4.9 | +13 14.5 | 7.5  
 106 | +1 ~~4~~ 3° 343 | 2 3.0 | +13 0.7 | 7.9  
 107 | +14° 357 | 2 5.2 | +14 35.1 | 6.0

Ident. by J.C.M. Feb. 13, '12.  
 Checked by A.M.C. Mar. 11, '12

Project PHaEDRA - Annie Jump Cannon 32  
 Transcribed and Reviewed by Digital Volunteers  
 Extracted Aug-30-2022 03:45:05

166

Feb. 23, 1912

Time: 0 hrs. 27 min. I 37500

[[4 column table]]

No. | Class | Int. | Remark

1	G0	9	E
2	G0	4	
3	G5	5	
4	K5	9	
5	F0	2	
6	A5	1	
7	A0	2	
8	G5	9	
9	A0	3	
10	B9	5	E
11	G5	5	
12	K0	5	
13	F0	3	
14	G5	5	
15	A0	4	
16	F0	5	
17	A3	2	
18	B8	7	E
19	A0	2	
20	G5	2	
21	F8	2	
22	A0	2	
23	K0	2	
24	F5	3	
25	F5	3	
26	A0	2	
27	G5	4	

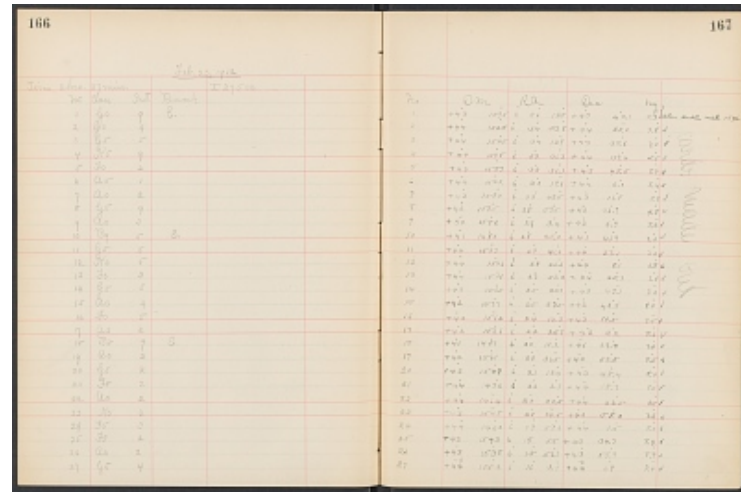
167

Cards Made Out

[[5 column table]]

No. | D.M. | R.A. | Dec. | Mg.

1	+43 1595	6 36 18.5	+43 40.1	5.7 close double with 1596
2	+44 1528	6 34 53.8	+44 23.0	7.8
3	+44 1525	6 34 12.9	+44 38.6	7.0
4	+44 1518	6 32 31.3	+44 39.4	5.5
5	+43 1589	6 33 36.1	+43 48.8	8.9
6	+44 1522	6 33 19.6	+44 6.0	8.4
7	+43 1590	6 33 48.5	+43 11.8	8.9
8	+42 1585	6 28 59.5	+42 36.9	4.8
9	+42 1586	6 29 3.4	+42 6.9	8.2
10	+41 1480	6 28 25.0	+41 41.9	7.0
11	+44 1509	6 29 41.0	+44 27.1	7.0
12	+44 1506	6 29 26.6	+44 8.1	6.8
13	+44 1501	6 27 53.2	+44 25.7	7.8



14	+43 1515	6 25 25.0	+43 49.1	7.3
15	+42 1577	6 25 37.5	+42 42.8	8.0
16	+43 1562	6 24 13.3	+43 10.5	7.5
17	+42 1566	6 22 25.7	+42 3.2	8.6
18	+41 1451	6 20 10.2	+41 29.4	7.0
19	+42 1561	6 20 31.5	+42 52.5	8.5
20	+43 1549	6 21 12.4	+43 48.4	8.0
21	+44 1476	6 22 2.7	+44 18.9	8.5
22	+44 1464	6 20 23.5	+44 23.5	8.5
23	+43 1548	6 20 14.5	+43 58.3	7.6
24	+44 1463	6 19 57.6	+44 1.5	8.0
25	+43 1543	6 18 5.5	+43 34.7	8.4
26	+43 1538	6 15 56.1	+43 58.9	8.9
27	+4 <del>[[/strikethrough]]</del> 4 <del>[[/strikethrough]]</del>	2 1552	6 16 3.1	+4
	<del>[[/strikethrough]]</del> 4 <del>[[/strikethrough]]</del>	2 1.9		7.0

Project PHaEDRA - Annie Jump Cannon 32  
 Transcribed and Reviewed by Digital Volunteers  
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170

Feb 23, 1912 (cont)

137500

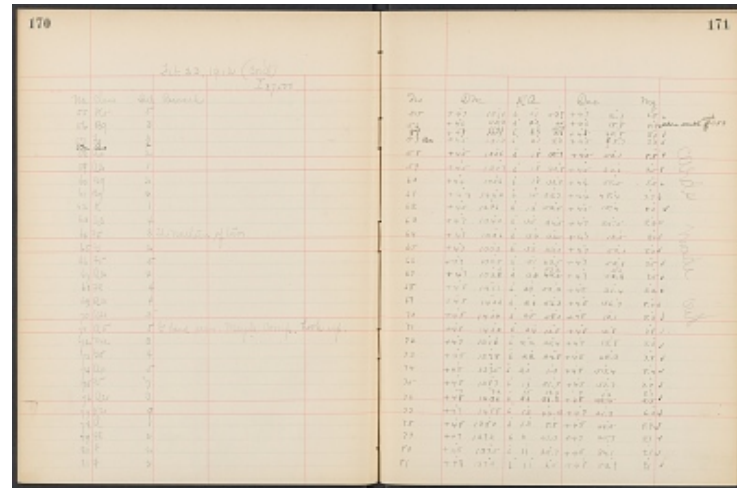
[[4 column table]]

No.	Class	Int.	Remark
55	K5	5	
56	B9	3	
57	F0	3	
57a	A0	2	
58	A0	2	
59	A2	1	
60	B9	2	
61	B9	4	
62	K	1	
63	A3	4	
64	F5	3	The northern of two
65	G	2	
66	F5	5	
67	A2	4	
68	F8	4	
69	A2	4	
70	A2	3	
71	A5	5	G band seen. Maybe comp. Look up
72	Ma	3	
73	G5	4	
74	A0	5	
75	F5	7	
76	A2	3	
77	K2	9	
78	A	1	
79	F8	2	
80	F	2	
81	F	2	

171

[[5 column table]]

No.	DM	RA	Dec	Mg
55	+47 1310	6 21 57.9	+47 2.1	6.8
56	+46 1152	6 20 0.0	+46 18.8	8.9
57	+4	<del>1146</del>	<del>6 23 2.6</del>	<del>8.3</del>
57a	+45 1313	6 21 8.0	+45 48.7	9.0
58	+45 1306	6 18 35.9	+45 50.1	8.8
59	+45 1307	6 18 43.8	+45 30.0	9.5
60	+44 1456	6 18 32.8	+44 58.5	8.3
61	+44 1442	6 15 33.7	+44 48.4	7.7
62	+45 1296	6 13 52.5	+45 15.4	8.0
63	+47 1340	6 35 24.5	+47 25.5	8.3
64	+47 1336	6 34 33.5	+47 12.5	8.0



65 |+47 1333 |6 33 23.0 | +47 50.0 |8.0 |  
 66 |+47 1328 |6 31 43.5 | +47 52.6 |7.5 |  
 67 |+47 132 ~~[[/strikethrough]]~~ 8 ~~[[/strikethrough]]~~ 6 |6 30 ~~[[/strikethrough]]~~  
 43.5 ~~[[/strikethrough]]~~ 57.2 | +47 5 ~~[[/strikethrough]]~~ 2.6 ~~[[/strikethrough]]~~  
 5.0 |7.5 |  
 68 |+48 1411 |6 29 50.2 | +48 21.4 |8.2 |  
 69 |+48 1406 |6 26 56.3 | +48 36.7 |8.0 |  
 70 |+48 1404 |6 25 58.0 | +48 13.1 |8.3 |  
 71 |+48 1402 |6 24 13.8 | +48 3.8 |7.8 |  
 72 |+47 1311 |6 22 25.4 | +47 18.8 |8.0 |  
 73 |+48 1398 |6 22 24.8 | +48 28.3 |7.8 |  
 74 |+48 1395 |6 20 1.3 | +48 53.4 |8.4 |  
 75 |+48 1387 |6 16 31.8 | +48 51.7 |7.0 |  
 76 |+4 ~~[[/strikethrough]]~~ 8 ~~[[/strikethrough]]~~ 9 |14 ~~[[/strikethrough]]~~ 36 |36.9  
~~[[/strikethrough]]~~ 92 |6 15 19.4 | +4 ~~[[/strikethrough]]~~ 8 |50.5  
~~[[/strikethrough]]~~ 9 |1.2 | ~~[[/strikethrough]]~~ 5.5 ~~[[/strikethrough]]~~ 8.7 |  
 77 |+49 1488 |6 13 44.3 | +49 21.3 |6.0 |  
 78 |+48 1380 |6 13 8.8 | +48 44.5 |8.9 |  
 79 |+47 1272 |6 4 41.3 | +47 25.9 |8.7 |  
 80 |+48 1375 |6 11 25.7 | +48 34.1 |9.1 |  
 81 |+48 1374 |6 11 6.5 | +48 53.9 |9.1 |

Project PHaEDRA - Annie Jump Cannon 32  
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Feb. 23, 1912 (cont)

137500

[[4 column table]]

No.	Class	Int.	Remark
82	F	2	
83	K5	3	
84	K	2	
85	K	4	E
86	F	3	E
87	F0	5	
88	A3	4	
89	B8	3	
90	K0	5	
91	A3	7	
92	B9	6	E
93	K	8	E
94	A	2	E
95	F5	3	
96	A	5	E
97	K0	4	
98	A	3	
99	A	2	
100	G	2	
101	B9	5	
102	A2	2	
103	A	1	
104	F2	3	
105	A0	4	
106	A	4	E
107	K0	4	
108	F8	4	
109	K0	3	

Time: 1.17

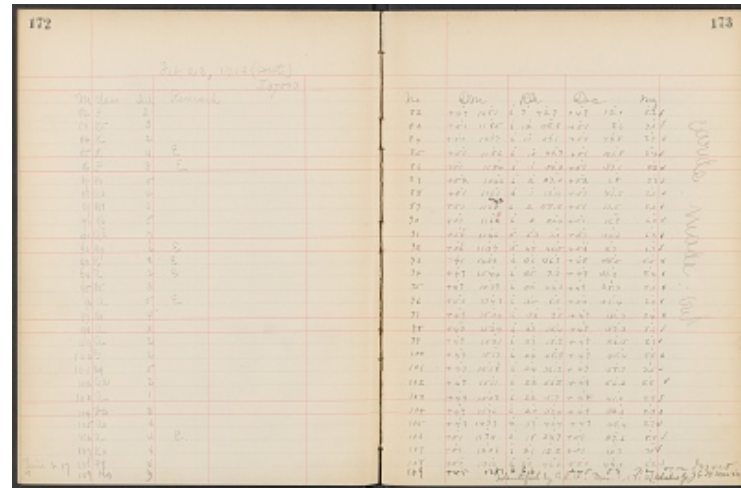
173

Cards Made Out

[[5 column table]]

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

82	+49 1481	6 9 42.9	+49 12.0	8.6
83	+51 1185	6 12 58.8	+51 8.6	7.0
84	+50 1297	6 11 59.1	+50 49.8	7.9
85	+51 1186	6 13 43.9	+51 41.8	7.4
86	+51 1184	6 11 54.3	+51 37.1	8.2
87	+52 1046	6 2 27.0	+52 1.8	7.7
88	+51 1161	6 1 12.4	+51 41.8	8.0
89	+51 116	[[/strickethrough]] 2	[[/strickethrough]] 4	6 2 58.3   +51 11.5   8.3
90	+51 116	[[/strickethrough]] 2	[[/strickethrough]] 3	6 2 20.4   +51 11.9



6.0  
 91 | +5 ~~0~~ ~~1 1146 5 53 1.0~~ | +51 34.6 |  
 6.3  
 92 | +5 ~~0~~ ~~1 1139~~ | 5 48 46.5 | +5  
~~0~~ ~~1 2.7~~ | 6.7  
 93 | +45 1436 | 6 36 36.9 | +48 55.5 | 5.5  
 94 | +49 1544 | 6 35 7.3 | +49 31.3 | 8.4  
 95 | +49 1539 | 6 33 44.3 | +49 28.9 | 8.0  
 96 | +50 1349 | 6 35 6.3 | +50 31.4 | 7.3  
 97 | +49 1534 | 6 32 9.8 | +49 31.7 | 7.4  
 98 | +49 1524 | 6 29 15.4 | +49 37.3 | 8.6  
 99 | +49 1521 | 6 27 18.9 | +49 26.5 | 8.7  
 100 | +49 1517 | 6 24 48.8 | +49 45.4 | 8.8  
 101 | +49 151 ~~7~~ | 6 24 36.3 | +49  
 58.7 | 7.5  
 102 | +49 1511 | 6 22 56.8 | +49 56.2 | 8.8  
 103 | +49 1509 | 6 22 5.9 | +49 41.0 | 8.8  
 104 | +49 1506 | 6 20 37.4 | +49 32.6 | 8.3  
 105 | +49 1497 | 6 17 40.4 | +49 48.4 | 8.7  
 106 | +51 1194 | 6 18 24.9 | +51 27.6 | 8.0  
 107 | +51 1206 | 6 21 12.2 | +51 3.7 | 7.5  
 108 | +50 1316 | 6 20 41.0 | +50 44.0 | 8.2  
 109 | +45 1281 | 6 6.6 | +45 53 | 7.2 47 on l 37428

Identified by C.L.A. Mar. 1, 1912  
 Checked by J.C.M. Mar. 7, '12

Project PHaEDRA - Annie Jump Cannon 32  
 Transcribed and Reviewed by Digital Volunteers  
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174

March, 16, 1912  
Time 12.35 B 38365 Short disp

[[4 column table]]

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

175

[[5 column table]]

1	-70° 87	37.3	-70 37.1	8.6
2	-70° 91	39.9	-70 12.1	9.2
3	-69° 77	41.7	-69 43.0	8.6
4	-68° 73	36.4	-68 53.5	8.8
5	-68° 76	37.5	-68 38.2	9.2
6	-68° 75	37.2	-68 25.9	9.2
7	-68° 77	37.6	-68 17.7	8.1
8	-67° 108	36.8	-67 52.0	8.2
9	-67° 106	33.5	-67 43.0	8.4
10	-67° 102	31.4	-67 46.5	7.8
11	-68° 69	34.6	-68 12.3	8.2
12	-68° 70	35.0	-68 41.6	9.0
13	-68° 68	32.7	-68 53.3	8.8
14	-69° 65	29.0	-69 0.7	9.4
15	-69° 66	29.0	-69 11.5	9.2
16	-69° 70	30.8	-69 34.4	8.8
17	-69° 73	31.4	-69 47.5	9.2
18	-69° 69	30.5	-69 40.4	9.4
19	-69° 64	28.0	-69 55.5	9.0
20	-69° 75	36.6	-69 47.7	9.4

21	-70° 79	30.3	-70	46.5	9.4
22	-70° 77	28.1	-70	38.1	8.4
23	-71° 69	30.3	-71	30.3	7.7
24	-71° 67	27.7	-71	15.4	8.6
25	-70° 76	25.0	-70	46.5	8.2
26	-70° 67	20.9	-70	8.0	9.2
27	-70° 64	18.2	-70	22.4	7.4

Project PHaEDRA - Annie Jump Cannon 32  
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176

March 16, 1912 (Cont.)  
7338365

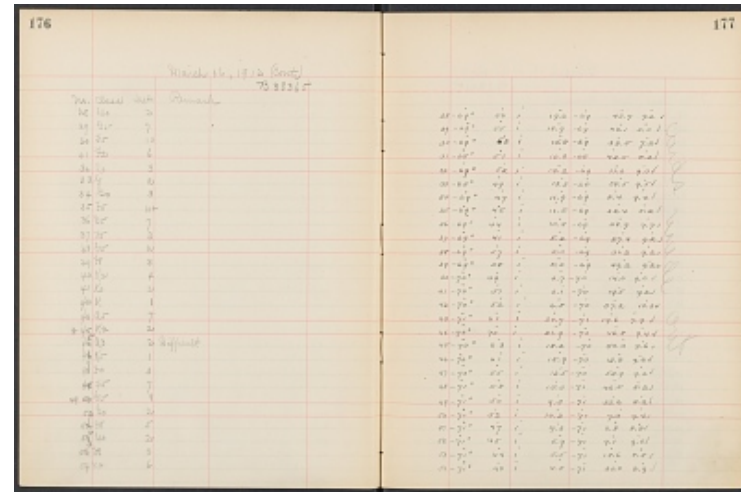
[[4 column table]]  
[[No.	Class	Int.	Remark]]

28	G0	2	
29	G5	7	
30	F5	10	
31	F2	6	
32	A0	3	
33	G.	2	
34	G0	3	
35	F5	10+	
36	G5	7	
37	F5	3	
38	G5	2	
39	F8	3	
40	K2	4	
41	K0	2	
42	K	1	
43	A5	7	
44	K2	2	
45	A3	2	Difficult
46	K5	1	
47	F0	3	
48	F5	7	
49	G5	8	
50	G0	2	
51	F8	5	
52	G0	2	
53	F8	3	
54	K0	6	

177

[[4 column table]]

28	-69° 56'	1 19.6	-69 43.7 9.2	[[checkmark]]
29	-69° 55'	1 18.9	-69 44.1 8.0	[[checkmark]]
30	-69° 53'	1 15.8	-69 33.5 7.2	[[checkmark]]
31	-68° 51'	1 16.3	-68 43.5 8.2	[[checkmark]]
32	-69° 52'	1 14.2	-69 11.0 9.0	[[checkmark]]
33	-68° 49'	1 13.3	-68 58.5 9.5	[[checkmark]]
34	-69° 47'	1 11.9	-69 8.4 9.4	[[checkmark]]
35	-69° 45'	1 11.5	-69 32.4 5.2	[[checkmark]]
36	-69° 44'	1 10.8	-69 28.9 7.7	[[checkmark]]
37	-69° 41'	1 5.2	-69 27.4 9.2	[[checkmark]]
38	-69° 37'	1 5.0	-69 31.2 9.2	[[checkmark]]
39	-69° 38'	1 5.0	-69 49.2 9.2	[[checkmark]]
40	-70° 49'	1 4.7	-70 14.0 9.0	[[checkmark]]
41	-70° 51'	1 6.1	-70 19.5 9.2	[[checkmark]]
42	-70° 52'	1 6.8	-70 37.2 10.3	[[checkmark]]
43	-71° 61'	1 20.7	-71 19.6 7.9	[[checkmark]]
44	-70° 70'	1 21.9	-70 46.8 9.4	[[checkmark]]



45	-70° 63	1 18.2	-70 50.0 9.6	[[checkmark]]
46	-70° 61	1 15.9	-70 12.8 9.6	[[checkmark]]
47	-70° 55	1 12.5	-70 53.9 9.2	[[checkmark]]
48	-71° 58	1 15.3	-71 46.5 8.2	[[checkmark]]
49	-71° 50	1 9.3	-71 32.6 8.2	[[checkmark]]
50	-71° 52	1 10.2	-71 7.3 9.4	[[checkmark]]
51	-71° 47	1 7.3	-71 0.8 8.8	[[checkmark]]
52	-71° 45	1 5.9	-71 9.1 9.0	[[checkmark]]
53	-71° 44	1 5.5	-71 18.6 8.8	[[checkmark]]
54	-71° 40	1 4.5	-71 20.0 8.9	[[checkmark]]

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

Project PHaEDRA - Annie Jump Cannon 32  
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178

March 16, 1912 (Cont)  
B 38365

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

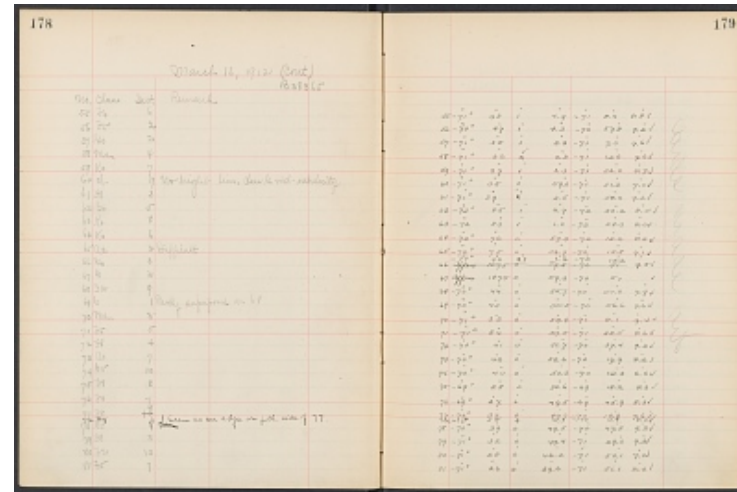
55	F0	6	
56	F5	2	
57	G0	2	
58	Ma	4	
59	K0	7	
60	cl.	9	No bright lines. Class K with nebulosity.
61	F8	3	
62	G0	5	
63	K0	8	
64	K0	6	
65	A2	2	Difficult
66	G0	3	
67	G	2	
68	F2	9	
69	G	1	Partly superposed on 68
70	Ma	3	
71	F5	5	
72	F8	4	
73	A0	7	
74	G5	10	
75	F8	8	
76	F0	7	
77	F8	<del>10</del>	<del>8</del>
77a	F8	6	Seen as an edge on fol. l side of 77.
78	G5	<del>3</del>	<del>Seen</del>
79	F8	3	
80	F2	10	
81	F5	7	

179

Cards Made Out

[[5 column table]]

55	-71° 43	1 4.9	-71 8.4	8.8
56	-70° 47	1 4.3	-70 57.8	9.2
57	-71° 38	1 2.4	-71 7.0	9.6
58	-71° 36	<del>0</del>	<del>1 0.3</del>	<del>-71 12.6</del> 9.6
59	-71° 37	1 1.3	-71 36.0	8.7
60	-71° 35	0 59.0	-71 31.2	7.0
61	-71° 39	<del>0</del>	<del>1 2.5</del>	<del>-71 58.4</del> 9.2
62	-72° 85	1 4.7	-72 30.2	8.5
63	-72° 83	1 1.0	-72 24.3	8.0
64	-72° 76	0 57.3	-72 13.2	8.2
65	-72° 75	0 56.9	-72 12.8	9.1
66	<del>Approx 1875</del>	0 59.3	-70 51	<del>-70°</del>
46	<del>0</del>	1 1.6	-70 15.2	9.5
67	Approx. 1875	0 59.3	-70 51	



68	-70° 44	0 55.7	-70 51.0	7.9
69	-70° 43	0 55.5	-70 56.6	9.6
70	-71° 33	0 53.4	-71 9.1	9.4
71	-71° 34	0 53.5	-71 32.5	8.6
72	-70° 41	0 51.7	-70 37.4	9.2
73	-70° 42	0 52.6	-70 17.9	8.2
74	-70° 40	0 50.3	-70 12.3	6.6
75	-69° 28	0 50.6	-69 18.2	8.3
76	-69° 27	0 49.5	-69 45.9	8.3
77	-70° 37	0 47.7	-70 10.9	7.6
77a	-70° 38	0 47.7	-70 10.9	8.0
78	-70° 39	0 49.5	-70 47.8	9.2
79	-71° 32	0 49.4	-71 29.0	9.3
80	-71° 28	0 46.2	-71 50.1	7.0
81	-71° 26	0 39.6	-71 51.1	8.4

Project PHaEDRA - Annie Jump Cannon 32  
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March 18, 1912 (cont)

B 38365

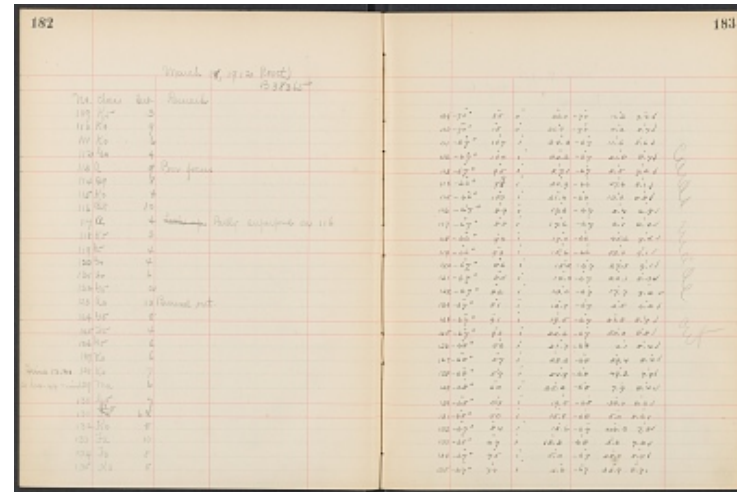
[[4 column table]]

No.	Class	Int.	Remark
109	K5	3	
110	K0	9	
111	K0	6	
112	G0	4	
113	A	9	Poor focus
114	B9	8	
115	K0	4	
116	B8	10	
117	A	4	[[ <del>Looks up</del> ]] Partly superposed on 116
118	K5	3	
119	G5	4	
120	G0	4	
121	F0	6	
122	G5	2	
123	A0	10	Burned out
124	G5	8	
125	F5	4	
126	G5	6	
127	K0	6	
Time 12.40 128   K0   7			
21 hrs. 44 min 129   Ma   6			
130	G5	7	
131	[[ <del>F5</del> ]]	[[ <del>8</del> ]]	[[ <del>A5</del> ]]
132	K0	8	
133	F2	10	
134	F0	5	
135	K0	5	

183

[[5 column table]]

109	-70° 25	0 26.0	-70 11.2	9.4
110	-70° 15	0 21.0	-70 0.2	8.7
111	-67° 107	1 34.3	-67 11.6	8.6
112	-67° 104	1 32.2	-67 21.8	8.7
113	-67° 95	1 27.1	-67 8.5	7.6
114	-66° 9	[[ <del>8</del> ]]	[[ <del>9</del> ]]	1 20.9   -66 47.6   8.1
115	-66° 100	1 21.4	-66 13.0	8.8
116	-67° 89	1 17.6	-67 2.4	6.9
117	-67° 88	1 17.6	-67 6.1	8.4
118	-66° 94	1 17.0	-66 45.6	9.4
119	-66° 93	1 15.6	-66 52.0	9.1
120	-67° 86	1 15.2	-67 27.3	9.1
121	-67° 85	1 14.4	-67 20.1	8.3
122	-67° 82	1 13.0	-67 17.7	9.2
123	-67° 81	1 12.7	-67 3.5	6.2



124	-67° 91	1 19.5	-67 31.3	8.7
125	-67° 93	1 22.6	-67 50.3	8.8
126	-68° 56	1 21.7	-68 4.1	8.4
127	-68° 57	1 22.2	-68 29.4	8.4
128	-68° 59	1 24.9	-68 49.2	7.9
129	-68° 60	1 25.2	-68 7.9	8.4
130	-68° 53	1 19.5	-68 38.0	8.6
131	-68° 50	1 15.8	-68 5.0	8.6
132	-67° 84	1 13.6	-67 46.3	7.8
133	-68° 47	1 12.2	-68 5.6	7.2
134	-67° 75	1 5.0	-67 28.0	8.8
135	-67° 74	1 4.6	-67 32.9	8.7

Cards made out.

Project PHaEDRA - Annie Jump Cannon 32  
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March 18, 1912

B 38365 (cont.)

[[4 column table]]

No. | Class | Int. | Remark

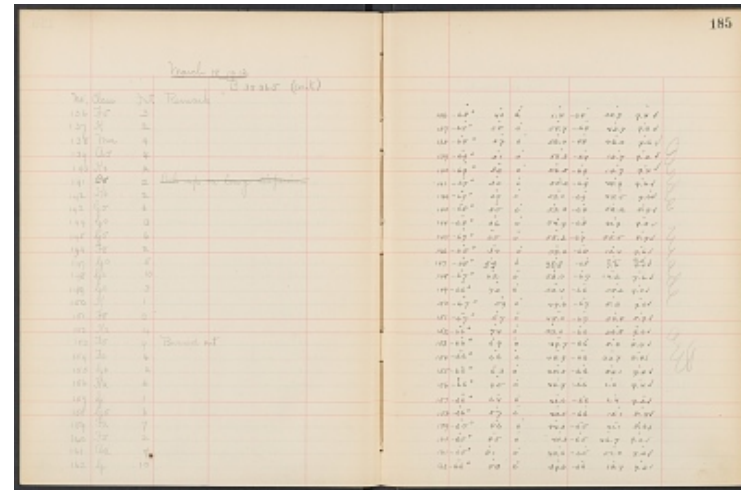
136	F5	3	
137	K	2	
138	Ma	4	
139	A5	4	
140	K0	2	
141	B8	2	[[ <del>Look up dispersion</del> ]]
142	K0	2	
143	G5	6	
144	G0	3	
145	G5	6	
146	F8	2	
147	G0	5	
148	G0	5	
149	G0	10	
150	K	1	
151	F8	3	
152	K2	4	
153	F5	9	Burned out
154	F0	6	
155	G0	2	
156	K2	2	
157	G	6	
158	G5	6	
159	F2	7	
160	F5	2	
161	A2	4	
162	G	10	

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Cards Made Out

[[5 column table]]

136	-68° 40	[[ <del>0</del> ]]	1.8	38.7	9.4
137	-68° 38	0 58.7	-68 42.7	9.6	
138	-68° 37	0 56.0	-68 46.0	9.6	
139	-69° 31	0 56.3	-69 12.7	9.2	
140	-69° 32	0 56.8	-69 14.7	9.4	
141	-69° 30	0 55.2	-69 48.9	9.6	
142	-69° 29	0 52.0	-69 48.5	9.6	
143	-68° 35	0 53.3	-68 52.2	8.9	
144	-68° 36	0 54.9	-68 41.9	9.3	
145	-67° 65	0 55.2	-67 55.5	8.9	
146	-68° 34	0 52.4	-68 10.4	9.6	
147	-68° 32/33	0 49.9/50.0	-68 7.5/7.4	9.2/9.4	



148	-67° 62	0 53.0	-67 14.2	7.6
149	-66° 72	0 52.4	-66 58.2	9.0
150	-67° 59	0 49.6	-67 8.3	9.6
151	-67° 57	0 48.0	-67 34.8	8.9
152	-66° 74	0 53.0	-66 26.8	9.0
153	-66° 69	0 49.7	-66 8.3	8.0
154	-66° 66	0 48.9	-66 32.7	8.4
155	-66° 63	0 45.3	-66 53.1	9.4
156	-66° 65	0 46.9	-66 1.0	9.4
157	-66° 64	0 46.6	-66 1.4	9.2
158	-66° 57	0 43.5	-66 15.1	8.8
159	-65° 86	0 44.3	-65 41.1	8.6
160	-65° 85	0 43.3	-65 46.7	9.2
161	-65° 81	0 40.6	-65 51.0	9.2
162	-66° 53	0 39.3	-66 18.7	7.2

Project PHaEDRA - Annie Jump Cannon 32  
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March 18, 1912

B 38365 (cont)

[[4 column table]]

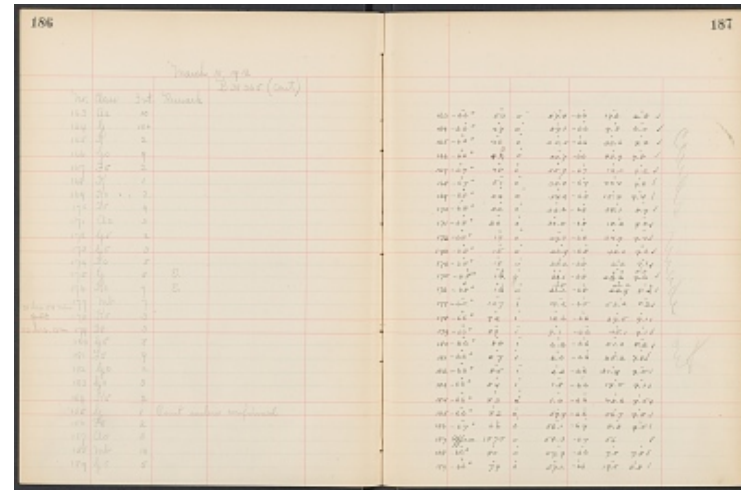
No.	Class	Int.	Remark
163	A2	10	
164	G	10+	
165	K	2	
166	G0	9	
167	F5	2	
168	K	1	
169	K0	3	
170	F5	4	
171	A2	3	
172	G5	2	
173	G5	3	
174	K0	5	
175	G	8	E
176	K0	7	E
177	Mb	7	
21 hrs 53 min			
178	K5	3	
22 hrs 12 min			
179	F8	3	
180	G5	8	
181	F5	9	
182	G0	2	
183	G0	3	
184	K5	2	
185	G	1	Omit unless confirmed
186	F8	2	
187	A5	3	
188	Mb	10	
189	G5	5	

187

Cards Made Out

[[5 column table]]

163	-66° 50	0 37.4	-66 17.6	6.8
164	-66° 47	0 37.1	-66 9.3	6.0
165	-66° 46	0 35.5	-66 32.6	9.4
166	-66° 43	0 32.7	-66 43.9	7.8
167	-67° 48	0 35.9	-67 12.0	9.2
168	-67° 51	0 38.4	-67 40.4	9.6
169	-68° 24	0 34.2	-68 15.8	9.4
170	-68° 22	0 32.6	-68 38.1	8.7
171	-68° 20	0 30.5	-68 18.2	9.3



172	-68° 19	0 29.0	-68 34.9	9.4
173	-68° 15	0 26.9	-68 42.0	9.4
174	-68° 18	0 28.2	-68 6.2	9.1
175	-68° 13	0 21.1	-68 24.9	8.3
176	-68° 11	0 19.8	-68 26.2	8.6
177	-65° 127	1 13.2	-65 52.2	8.2
178	-66° 92	1 12.6	-66 45.1	9.1
179	-66° 89	1 9.1	-66 45.1	9.1
180	-66° 88	1 6.2	-66 51.0	8.2
181	-66° 87	1 6.0	-66 35.2	7.8
182	-66° 85	1 2.2	-66 31.9	9.5
183	-66° 84	1 1.8	-66 19.5	9.1
184	-66° 83	1 1.0	-66 43.6	9.5
185	-66° 82	0 59.9	-66 56.7	9.8
186	-67° 66	0 56.1	-67 8.3	9.5
187	approx. 1875	0 58.3	-67 56	
188	-66° 80	0 57.9	-66 7.8	7.8
189	-66° 79	0 57.1	-66 19.5	8.8

Project PHaEDRA - Annie Jump Cannon 32  
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March 18, 1912

B 38365 (cont)

[[4 column table]]

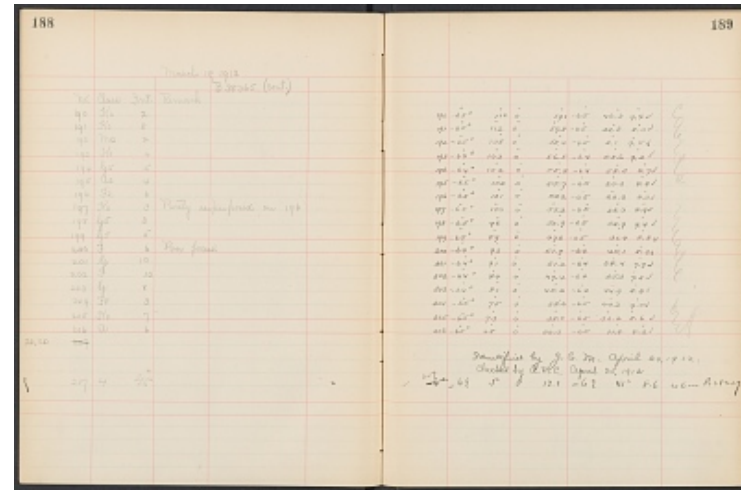
No.	Class	Int.	Remark
190	K0	2	
191	K0	8	
192	Mc	2	
193	K0	4	
194	G5	5	
195	A2	4	
196	F2	6	
197	K0	3	Partly superposed on 196
198	G5	3	
199	G5	5	
200	F	6	Poor focus
201	G	10	
202	F	10	
203	G	8	
204	F8	3	
205	K0	7	
206	A	6	
[[ <del>207</del> ]]			
22.20			

207|4 | G5| |

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Cards Made Out  
[[5 column table]]

190	-65° 110	0 59.1	-65 46.3	9.4
191	-65° 112	0 59.8	-65 22.3	8.0
192	-65° 108	0 58.4	-65 2.1	9.5
193	-64° 103	0 56.5	-64 53.6	9.2
194	-64° 102	0 55.8	-64 58.3	8.7
195	-65° 102	0 55.7	-65 20.3	8.8
196	-65° 101	0 53.2	-65 26.3	8.3
197	-65° 100	0 53.2	-65 23.3	8.9
198	-65° 96	0 50.9	-65 52.9	9.4
199	-65° 89	0 47.6	-65 31.4	8.8
200	-64° 93	0 51.7	-64 45.1	8.3
201	-64° 91	0 51.2	-64 38.4	7.7
202	-64° 84	0 47.4	-64 25.3	7.3
203	-64° 81	0 45.2	-64 44.9	8.3
204	-65° 75	0 38.2	-65 44.2	9.0
205	-65° 73	0 38.0	-65 30.2	8.6
206	-65° 68	0 36.3	-65 11.8	8.2



Identified by J.C.M April 24, 1912.  
Checked by A.M.C. April 25, 1912  
[[~~6~~]] 207|-69 5|0 12.1|-65 45 | 8.6|46 in B  
38365

Project PHaEDRA - Annie Jump Cannon 32  
Transcribed and Reviewed by Digital Volunteers  
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Monday, March 18, 1912

23.16 | 37527

[[4 column table]]

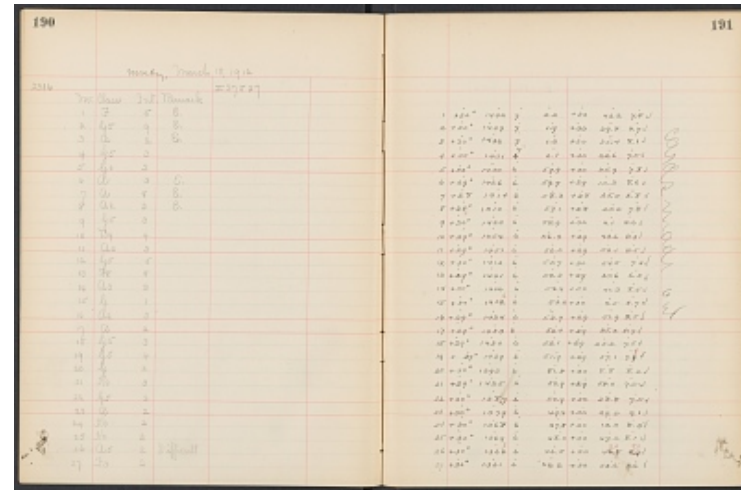
No.	Class	Int.	Remark
1	F	5	E
2	G5	9	E
3	A	2	E
4	G5	3	
5	G0	3	
6	A	3	E
7	A	8	E
8	A2	3	E
9	G5	3	
10	B9	4	
11	A0	3	
12	G5	5	
13	F8	8	
14	A3	3	
15	G	1	
16	A2	3	
17	A	2	
18	G5	3	
19	G5	4	
20	G	2	
21	K0	3	
22	G5	3	
23	A	2	
24	K0	2	
25	K0	2	
26	A5	2	Difficult
27	F0	2	

191

Cards Made Out

[[8 column table]]

1	+30°	1442	7	2.2	+30	42.2	7.8
2	+30°	1439	7	1.9	+30	29.4	4.7
3	+30°	1436	7	1.2	+30	35.4	8.1
4	+30°	1431	6	0.1	+30	22.6	7.5
5	+30°	1430	6	59.9	+30	35.9	7.8
6	+29°	1466	6	59.9	+29	10.3	8.6
7	+28°	1314	6	58.3	+28	25.0	6.8
8	+28°	1310	6	57.1	+28	25.2	7.8
9	+30°	1423	6	58.9	+30	4.1	8.6
10	+29°	1454	6	56.4	+29	43.6	8.3
11	+29°	1451	6	56.0	+29	56.1	8.5
12	+30°	1413	6	55.7	+30	34.5	7.3
13	+29°	1441	6	54.3	+29	35.6	6.3
14	+30°	1406	6	54.4	+30	41.3	8.5



15	+30°	140	<del>2</del>	4	6	53.2	+30	4.5	8.7
16	+29°	1434	6	52.7	+29	51.9	8.5		
17	+29°	1433	6	52.4	+29	35.3	8.9		
18	+29°	1430	6	52.1	+29	25.2	7.5		
19	+29°	1429	6	51.9	+29	57.1	7	<del>9</del>	8
20	+30°	1393	6	51.8	+30	8.8	8.2		
21	+29°	1425	6	50.9	+29	58.4	7.5		
22	+30°	1387	6	50.9	+30	28.8	7.5		
23	+30°	1379	6	49.4	+30	29.5	9.1		
24	+30°	1368	6	47.8	+30	13.3	8.3		
25	+30°	1369	6	48.0	+30	47.2	8.1		
26	+30°	1363	6	46.8	+30	4	<del>4.5</del>	2.3	
						<del>8.9</del>	9.0		
27	+30°	1361	6	46.6	+30	52.6	8.6		

Project PHaEDRA - Annie Jump Cannon 32  
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March 18, 1912  
137527 (cont.)

[[4 column table]]

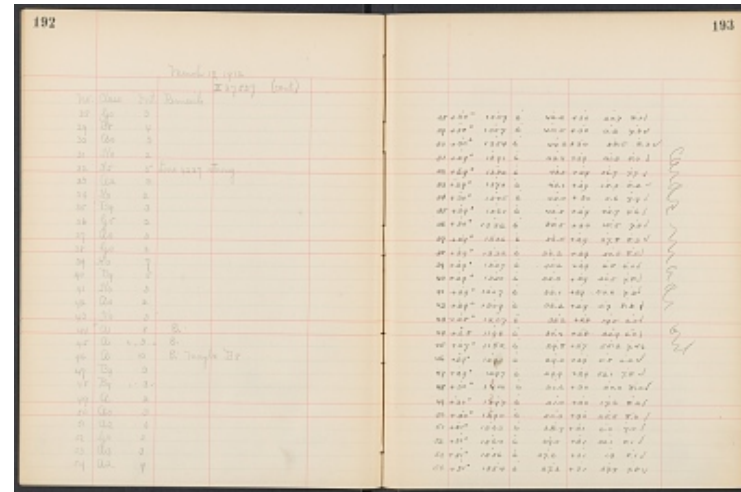
No.	Class	Int	Remark
28	G0	3	
29	B8	4	
30	A0	3	
31	K0	2	
32	F5	5	Line 4227 strong.
33	A2	3	
34	K0	2	
35	B9	3	
36	G5	2	
37	A0	3	
38	G0	2	
39	K0	7	
40	B9	5	
41	K0	3	
42	A0	2	
43	K0	3	
44	A	8	E.
45	A	3	E.
46	A	10	E. maybe B8
47	B9	3	
48	B9	3	
49	A	2	
50	A0	3	
51	A2	6	
52	G0	2	
53	A3	3	
54	A2	4	

193

Cards made out

[[5 column table]]

28	+30°	1359	6 46.2	+30 20.7	8.1
29	+30°	1357	6 45.5	+30 0.2	7.8
30	+30°	1354	6 44.2	+30 38.5	8.3
31	+29°	1391	6 44.4	+29 41.3	8.0
32	+29°	1382	6 43.5	+29 36.7	7.7
33	+29°	1374	6 42.1	+29 18.3	8.2
34	+30°	1345	6 42.0	+30 0.6	7.9
35	+29°	1361	6 40.8	+29 42.7	8.6
36	+30°	1332	6 38.5	+30 15.5	7.8
37	+29°	1336	6 36.5	+29 27.8	8.3
38	+29°	1332	6 36.2	+29 30.5	8.5
39	+29°	1327	6 35.6	+29 6.8	6.0
40	+29°	1320	6 33.3	+29 30.5	7.8
41	+29°	1307	6 32.1	+29 50.6	7.2



42	+29°	1309	6 32.2	+29 5.9	8.3
43	+28°	1207	6 32.2	+28 19.5	6.5
44	+28°	1196	6 30.4	+28 22.9	6.0
45	+27°	1182	6 29.8	+27 55.2	7.4
46	+29°	1293	6 29.2	+29 5.8	6.2
47	+29°	1297	6 29.9	+29 52.1	7.8
48	+30°	1 <del>4</del>	<del>300</del>	6 31.6	+30 20.0
49	+30°	1 <del>3</del>	<del>297</del>	6 31.0	+30 17.6
50	+30°	1 <del>3</del>	<del>290</del>	6 30.3	+30 25.5
51	+31°	1363	6 28.7	+31 0.0	7.0
52	+31°	1364	6 29.0	+31 20.1	8.1
53	+31°	1356	6 27.6	+31 1.9	8.1
54	+31°	1354	6 27.2	+31 27.9	7.8

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March 18, 1912  
I 37527 (cont.)

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

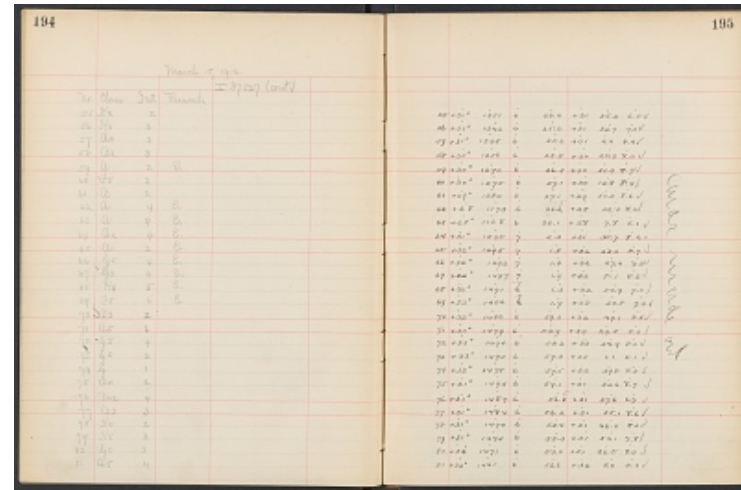
55	K2	2	
56	K0	3	
57	A0	3	
58	A2	3	
59	A	2	E
60	F5	2	
61	A	2	
62	A	4	E
63	A	9	E
64	A2	4	E
65	A	2	E
66	G5	4	E
67	G0	4	E
68	K0	5	E
69	F5	6	E
70	A3	2	
71	A5	6	
72	G5	4	
73	G0	2	
74	G	1	
75	A0	2	
76	Ma	4	
77	A3	3	
78	K0	2	
79	K5	2	
80	G0	3	
81	A5	4	

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Cards Made Out

[[5 column table]]

55	+31° 1351	6 26.6	+31 35.2	6.5
56	+31° 1342	6 25.6	+31 32.7	7.0
57	+31° 1338	6 25.2	+31 4.4	8.4
58	+30° 1256	6 23.8	+30 25.3	8.0
59	+30° 1270	6 26.3	+30 31.3	8.7
60	+30° 1275	6 27.1	+30 12.8	8.4
61	+29° 1282	6 27.1	+29 50.3	8.6
62	+28° 1173	6 26.	<del>6</del> <del>6</del> <del>5</del>	+28 22.4   8.0
63	+28° 1168	6 26.1	+28 7.8	5.1
64	+31° 1505	7 2.3	+31 35.7	8.2
65	+32° 1495	7 1.8	+32 23.0	8.7
66	+32° 1492	7 1.4	+32 27.4	7.3
67	+32° 1497	7 1.9	+32 51.1	8.2
68	+32° 1491	<del>6</del> <del>6</del> <del>7</del> 1.3	+32 50.9	7.0
69	+33° 1486	<del>6</del> <del>6</del> <del>7</del> 1.9	+33 20.8	7.3



70 | +32° 1486 | 6 59.3 | +32 49.1 | 8.5  
 71 | +33° 1479 | 6 58.9 | +33 29.8 | 8.0  
 72 | +33° 1474 | 6 58.2 | +33 24.9 | 8.0  
 73 | +33° 1473 | 6 57.3 | +33 1.1 | 8.1  
 74 | +32° 1478 | 6 57.5 | +32 39.8 | 8.3  
 75 | +31° 1495 | 6 59.1 | +31 32.6 | 8.7  
 76 | +31° 1487 | 6 56. ~~4~~ ~~5~~ | +31 37.6 |  
 6.7  
 77 | +31° 1484 | 6 56.2 | +31 35.1 | 8.6  
 78 | +31° 1474 | 6 53.4 | +31 46.0 | 8.0  
 79 | +31° 1473 | 6 53.3 | +31 34.1 | 7.8  
 80 | +3 ~~2~~ 1471 | 6 53.0 | +31 26.5 |  
 8.0  
 81 | +32° 1461 | 6 52.6 | +32 8.0 | 8.3

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March 18, 1912  
I 37527 (cont.)

[[4 column table]]

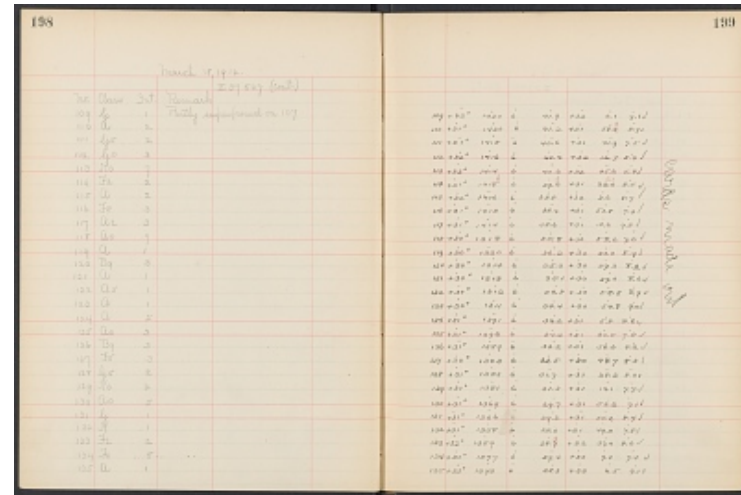
No.	Class	Int.	Remark
109	G   1		Partly superposed on 107
110	A   2		
111	G5   2		
112	G0   3		
113	K0   7		
114	F2   2		
115	A   2		
116	F8   3		
117	A2   3		
118	A0   7		
119	A   1		
120	B9   3		
121	A   1		
122	A5   1		
123	A   1		
124	A   2		
125	A0   3		
126	B9   3		
127	F5   3		
128	G5   2		
129	K0   2		
130	A0   5		
131	G   1		
132	K   1		
133	F2   2		
134	F0   5		
135	A   1		

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Cards Made Out

[[5 column table]]

109	+32° 1420	6 41.9	+32 6.1	9.1
110	+31° 1420	6 41.2	+31 58.	<del>[[/del]] 0</del> <del>[[/del]] 9</del>
8.7				
111	+31° 1418	6 40.6	+31 41.9	7.5
112	+32° 1416	6 40.4	+32 16.7	8.3
113	+32° 1414	6 40.2	+32 45.6	5.8
114	+31° 141	<del>[[/del]] 5</del> <del>[[/del]] 6</del>   6 39.		
<del>[[/del]] 0</del> <del>[[/del]] 3</del>   +31 2	<del>[[/del]] 2.0</del>			
<del>[[/del]] 5.1</del>   8.5				
115	+32° 1406	6 38.8	+32 2.6	8.7
116	+31° 1413	6 38.4	+31 50.8	7.3
117	+31° 1414	6 38.6	+31 10.6	7.8
118	+30° 1318	6 35.8	+30 58.6	7.0
119	+30° 1320	6 36.2	+30 20.0	8.9
120	+30° 1314	6 35.3	+30 37.3	8.2
121	+30° 1313	6 35.1	+30 39.0	8.6



122	+30° 1312	6 34.8	+30 58.8	8.9
123	+30° 1311	6 34.4	+30 54.8	9.0
124	+31° 1391	6 34.2	+31 5.8	8.6
125	+31° 1392	6 34.2	+31 30.5	7.8
126	+31° 1389	6 33.2	+31 56.6	8.2
127	+30° 1303	6 32.5	+30 48.7	8.0
128	+31° 1383	6 31.7	+31 28.2	8.0
129	+31° 1381	6 31.3	+31 14.1	7.7
130	+31° 1369	6 29.7	+31 53.2	7.1
131	+31° 1366	6 28.0	+31 49.3	7.8
132	+31° 1358	6 28.0	+31 35.2	8.7
133	+32° 1354	6 28. <del>7</del>	<del>7</del> 8	+32 37.4
134	+33° 1377	6 29.4	+33 9.4	7.4
135	+33° 1373	6 28.3	+33 4.5	9.1

Project PHaEDRA - Annie Jump Cannon 32  
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March 18, 1912  
I 37527 (cont.)

[[4 column table]]

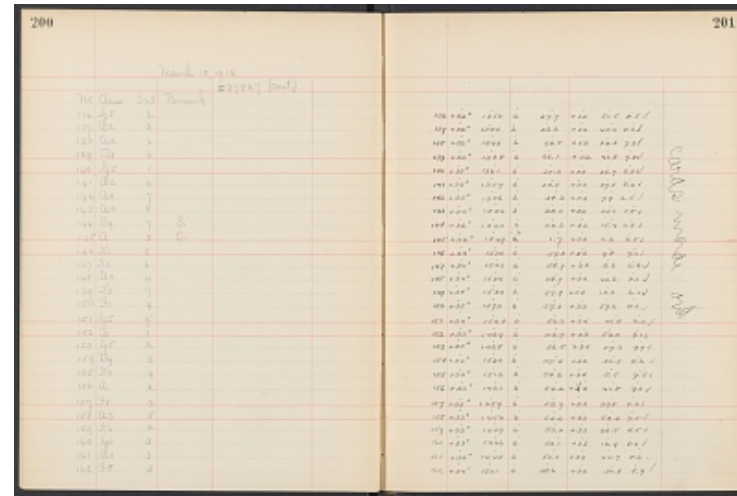
No.	Class	Int.	Remark
136	G5	2	
137	A2	3	
138	A2	6	
139	B8	6	
140	G5	1	
141	A2	2	
142	A0	7	
143	A0	8	
144	B9	7	E
145	A	3	E
146	K0	5	
147	K0	6	
148	A0	4	
149	K0	7	
150	F0	4	
151	G5	9	
152	A	1	
153	G5	2	
154	B9	3	
155	K0	4	
156	A	2	
157	F8	3	
158	A3	5	
159	K0	2	
160	G0	3	
161	A0	3	
162	F5	3	

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Cards Made Out

[[5 column table]]

136	+32°	1350	6 27.7	+32 51.5	8.5
137	+32°	1344	6 26.6	+32 45.0	8.4
138	+32°	1343	6 26.5	+32 24.3	7.3
139	+32°	1338	6 26.1	+32 40.8	7.8
140	+33°	1361	6 25.3	+33 26.7	8.8
141	+33°	1357	6 24.5	+33 37.5	8.2
142	+33°	1356	6 24.2	+33 7.9	6.5
143	+32°	1324	6 23.0	+32 33.0	5.8
144	+32°	1320	6 22.2	+32 15.4	6.8
145	+34°	1549	[[strikethrough]] 6 [[/strikethrough]] 7 1.7   +34 0.2   8.5		
146	+34°	1536	6 59.3	+34 9.8	7.0
147	+34°	1533	6 58.7	+34 2.3	6.6
148	+34°	1534	6 58.7	+34 42.6	8.0
149	+34°	1530	6 57.9	+34 13.0	6.0



150		+33°		1472		6 57.3		+33 57.6		8.0
151		+34°		1524		6 56.6		+34 41.8		6.0
152		+33°		1469		6 56.7		+33 54.0		9.1
153		+33°		1468		6 56.5		+33 57.3		7.9
154		+34°		1520		6 55.4		+34 30.3		8.6
155		+34°		1516		6 54.2		+34 5.5		7.5
156		+33°		1461		6 54.2		+ <del>2</del> <del>33 41.8</del>		9.0
157		+33°		1459		6 53.9		+33 29.8		8.4
158		+33°		1454		6 52.2		+33 53.2		7.5
159		+33°		1447		6 50.4		+33 26.5		8.5
160		+33°		1446		6 50.1		+33 14.9		8.0
161		+33°		1445		6 50.0		+33 44.7		8.6
162		+34°		1501		6 48.6		+34 30.3		8.9

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March 18, 1912  
I 37527 (cont.)

[[4 column table]]

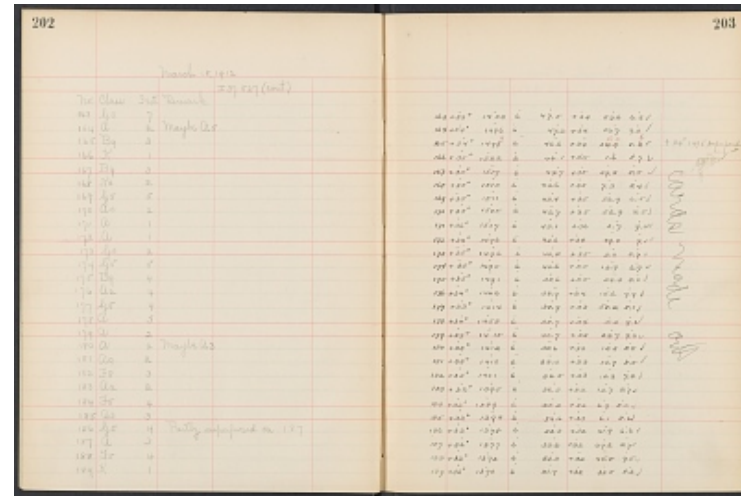
No.	Class	Int.	Remark
163	G0	7	
164	A	2	Maybe A5
165	B9	3	
166	K	1	
167	B9	3	
168	K0	2	
169	G5	5	
170	A0	2	
171	A	1	
172	A	1	
173	G0	2	
174	G5	5	
175	B9	4	
176	A2	4	
177	G5	4	
178	A	3	
179	A	2	
180	A	2	Maybe A3
181	A0	2	
182	F8	3	
183	A2	2	
184	F5	4	
185	A3	3	
186	G5	4	Partly superposed on 187
187	A	3	
188	F5	4	
189	K	1	

203

Cards Made Out

[[5 column table]]

163	+33°	1433	6 47.5	+33 52.6	6.3
164	+34°	1496	6 47.2	+34 50.7	9.0
165	+34°	149	[[/strikethrough]] 5	[[/strikethrough]] 4	6 46.6   +34 3
[[/strikethrough]] 8.3   8.2 [[/strikethrough]] 5.0   8.6 +34° 1495					
superposed					
166	+35°	1522	6 46.1	+35 1.6	8.7
167	+35°	1517	6 44.7	+35 29.4	8.5
168	+35°	1513	6 43.6	+35 7.3	8.4
169	+35°	1511	6 43.4	+35 56.9	6.5
170	+35°	1505	6 42.7	+35 56.9	8.5
171	+36°	1517	6 42.1	+36 3.7	9.0
172	+34°	1476	6 42.6	+34 49.4	9.1
173	+35°	1496	6 40.8	+35 2.0	8.7
174	+35°	1495	6 40.6	+35 12.9	6.9
175	+35°	1491	6 38.6	+35 24.4	8.0
176	+34°	1462	6 38.9	+34 15.6	7.9



177	+33°	1414	6 38.9	+33 58.2	8.1
178	+34°	1458	6 38.7	+34 5.2	9.1
179	+33°	1415	6 40.7	+33 23.7	9.0
180	+33°	1412	6 38.6	+33 12.3	8.8
181	+33°	1410	6 38.0	+33 14.7	8.5
182	+33°	1401	6 36.5	+33 10.3	7.8
183	+32°	1395	6 36.3	+32 12.7	8.7
184	+32°	1389	6 35.2	+32 6.9	8.0
185	+33°	1394	6 34.6	+33 6.1	8.6
186	+32°	1378	6 33.3	+32 41.9	6.6
187	+32°	1377	6 33.2	+32 37.2	8.7
188	+32°	1372	6 32.3	+32 45.8	7.5
189	+32°	1370	6 31.7	+32 32.5	8.2

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March 18, 1912  
I 37527 (cont.)

[[4 column table]]

No. | Class | Int. | Remark

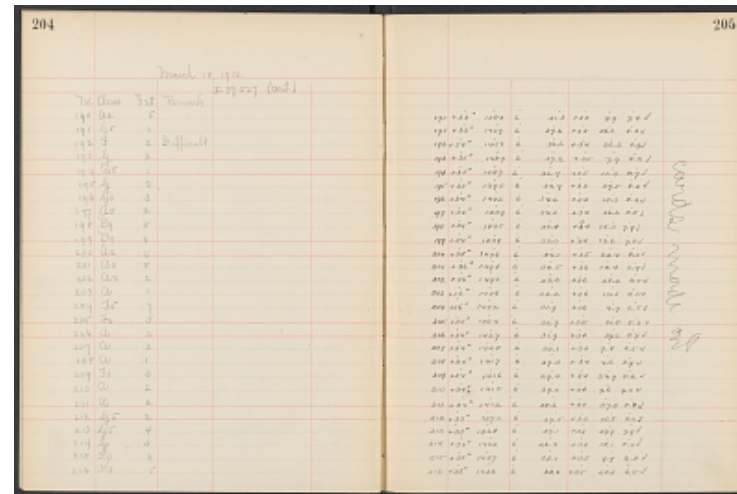
190	A2	5	
191	G5	1	
192	F	2	Difficult
193	G	2	
194	A5	1	
195	G	2	
196	G0	3	
197	A5	2	
198	B9	5	
199	B9	4	
200	A2	4	
201	A0	8	
202	A3	2	
203	A	1	
204	F5	7	
205	F0	3	
206	A	2	
207	A	2	
208	A	1	
209	F0	3	
210	A	2	
211	A	2	
212	G5	2	
213	G5	4	
214	G	3	
215	K0	4	
216	K0	5	

205

Cards Made Out

[[5 column table]]

190	+33° 1383	6 31.3	+33 9.9	7.4
191	+33° 1407	6 37.6	+33 56.0	8.3
192	+34° 1451	6 36.6	+34 26.2	8.9
193	+35° 1489	6 37.2	+35 7.9	8.2
194	+35° 1487	6 36.7	+35 11.3	8.7
195	+33° 1395	6 34.7	+33 57.5	8.2
196	+34° 1442	6 34.6	+34 18.3	8.3
197	+34° 1439	6 34.0	+34 26.6	8.8
198	+34° 1435	6 33.4	+ <del>[[/strikethrough]]</del> 2 <del>[[/strikethrough]]</del> 34 15.3	7.9
199	+34° 1434	6 33.0	+34 13.6	7.8
200	+35° 1476	6 34.1	+35 22.4	8.0
201	+36° 1494	6 34.5	+36 14.4	6.7
202	+36° 1490	6 33.6	+36 28.2	8.5



203	+36°	1486	6 33.2	+36 18.3	8.5
204	+36°	1482	6 31.9	+36 4.7	6.5
205	+35°	1464	6 30.9	+35 41.8	8.3
206	+34°	1427	6 31.9	+34 59.3	8.7
207	+34°	1428	6 32.1	+34 9.8	8.5
208	+34°	1417	6 29.3	+34 4.6	8.9
209	+34°	1416	6 29.3	+34 24.9	8.2
210	+34°	1415	6 29.0	+34 9.6	9.0
211	+34°	1412	6 28.6	+34 57.3	8.8
212	+33°	1370	6 27.5	+33 45.5	8.6
213	+33°	1368	6 27.1	+33 29.9	7.9
214	+34°	1402	6 26.4	+34 18.1	8.0
215	+35°	1437	6 23.1	+35 9.7	6.8
216	+35°	1436	6 23.0	+35 24.3	6.5

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March 1 ~~8~~ 9, 1912  
I 37527 (cont.)

[[4 column table]]

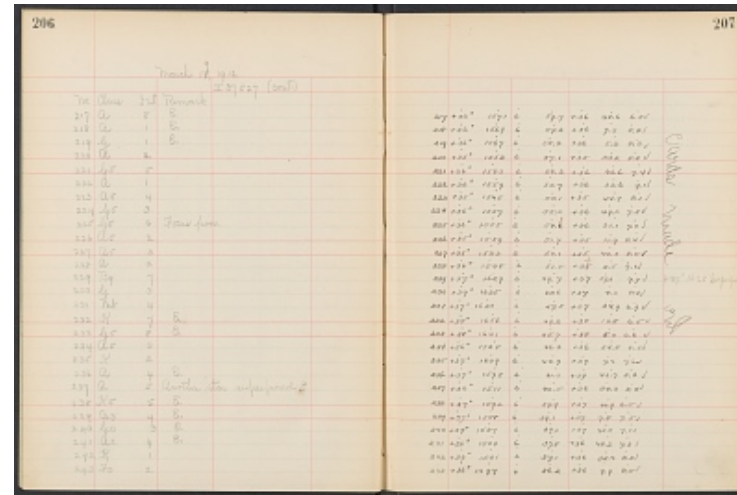
No. | Class | Int. | Remark

217	A	8	E
218	A	1	E
219	G	1	E
220	A	2	
221	G5	5	
222	A	1	
223	A5	4	
224	G5	3	
225	G5	6	Focus poor
226	A5	2	
227	A5	3	
228	A	2	
229	B9	7	
230	G	3	
231	Mb	4	
232	K	7	E
233	G5	8	E
234	A5	3	
235	K	2	
236	A	4	E
237	A	5	Another star superposed ?
238	K5	5	E
239	A3	4	E
240	G0	3	E
241	A2	4	E
242	K	1	
243	F0	2	

207

Cards Made Out  
[[5 column table]]

217	+36° 1571	6 59.7	+36 48.6	6.8
218	+36° 1569	6 59.2	+36 7.3	8.4
219	+36° 1567	6 58.4	+36 5.2	8.3
220	+35° 1552	6 57.1	+35 53.2	8.8
221	+36° 1563	6 56.2	+36 46.6	7.4
222	+36° 1559	6 55.7	+36 33.6	9.1
223	+35° 1545	6 55.1	+35 44.7	8.1
224	+36° 1557	6 55.0	+36 49.0	7.8
225	+36° 1555	6 54.	<del>4</del> <del>3</del> +36 31.1	7.0
226	+35° 1539	6 51.7	+35 11.9	8.4
227	+35° 1533	6 50.1	+35 40.3	8.5
228	+36° 1548	6 51.5	+3 <del>5</del> <del>6</del> 2.5	9.1
229	+37° 1629	6 49.7	+37 17.0	+37° 1728 superposed
230	+37° 1625	6 48.6	+37 4.0	8.4



231		+37°		1620		6 47.5		+37 34.9		6.9
232		+38°		1656		6 49.2		+38 14.8		6.5
233		+38°		1641		6 45.7		+38 5.4		6.6
234		+36°		1528		6 46.4		+36 54.8		8.5
235		+37°		1609		6 44.9		+37 7.4		7.6
236		+37°		1598		6 41.0		+37 43.7		8.4
237		+36°		1511		6 40.5		+36 34.3		8.4
238		+37°		1592		6 39.9		+37 40.9		6.5
239		+37°		1588		6 39.1		+37 7.8		7.5
240		+37°		1587		6 39.0		+37 40.0		7.1
241		+36°		1504		6 37.8		+36 48.2		7.3
242		+36°		1501		6 37.1		+36 32.4		8.3
243		+36°		1497		6 36.2		+36 9.9		8.5

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March 19, 1912

I 37527 (cont.)

[[4 column table]]

No. | Class | Int. | Remark

244	G	2	
245	F0	5	
246	K	1	
247	G5	7	E
248	G5	3	E
249	F0	5	
250	A	3	
251	G5	4	E
252	G	5	E

Time: 0.13

253 | F8 | 1 | |

209

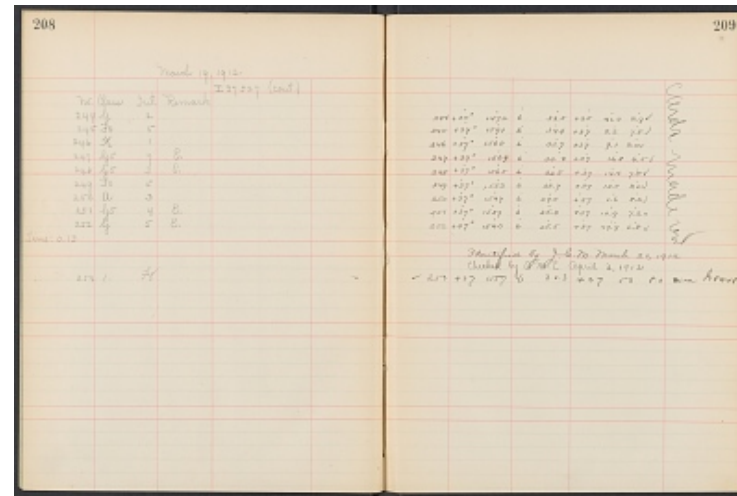
Cards Made Out

[[5 column table]]

244	+35°	1472	6 33.5	+35 41.3	8.9
245	+37°	1571	6 34.4	+37 8.2	7.8
246	+37°	1568	6 33.7	+37 9.1	8.0
247	+37°	1567	6 33.4	+37 16.8	6.5
248	+37°	1565	6 32.5	+37 14.4	7.8
249	+37°	1553	6 28.7	+37 13.8	8.0
250	+37°	1547	6 27.0	+37 1.6	8.0
251	+37°	1539	6 25.3	+37 10.9	7.2
252	+37°	1540	6 25.5	+37 49.9	6.8

Identified by J.C.M. March 20, 1912  
Checked by A.M.C. April 3, 1912

253 | +37 1557 | 6 30.3 | +37 53 | 8.0 on I 38408



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