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## **Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates (South Draper Catalog) #82**

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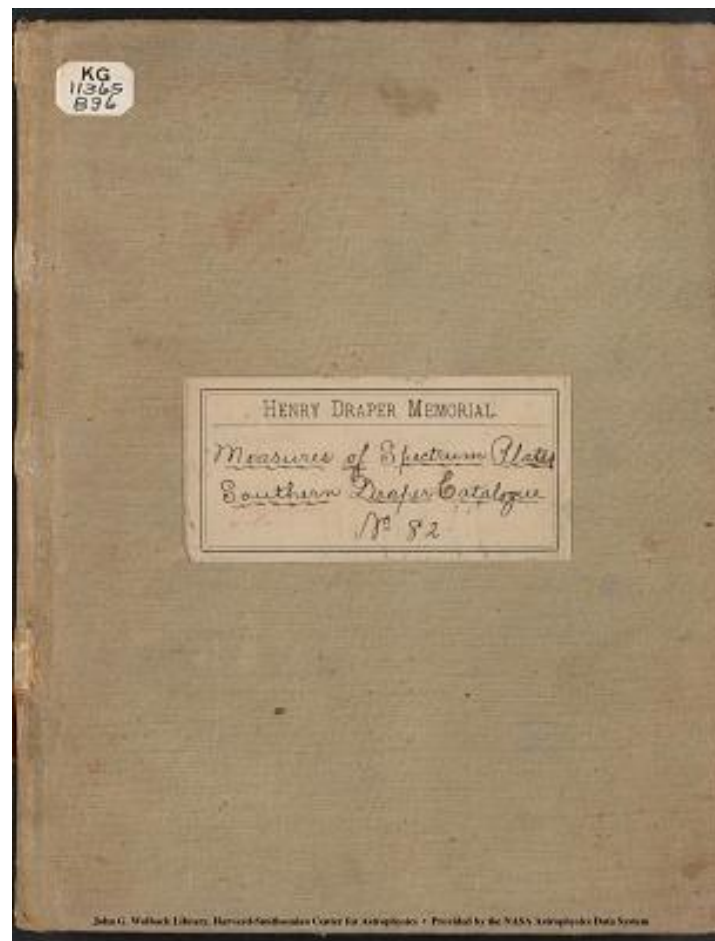
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[[label]] KG  
11365  
Bg6 [[/label]]

[[label]]  
HENRY DRAPER MEMORIAL  
[[u]]Measures of Spectrum Plates  
Southern Draper Catalogue [[/u]]  
No 82 [[/label]]



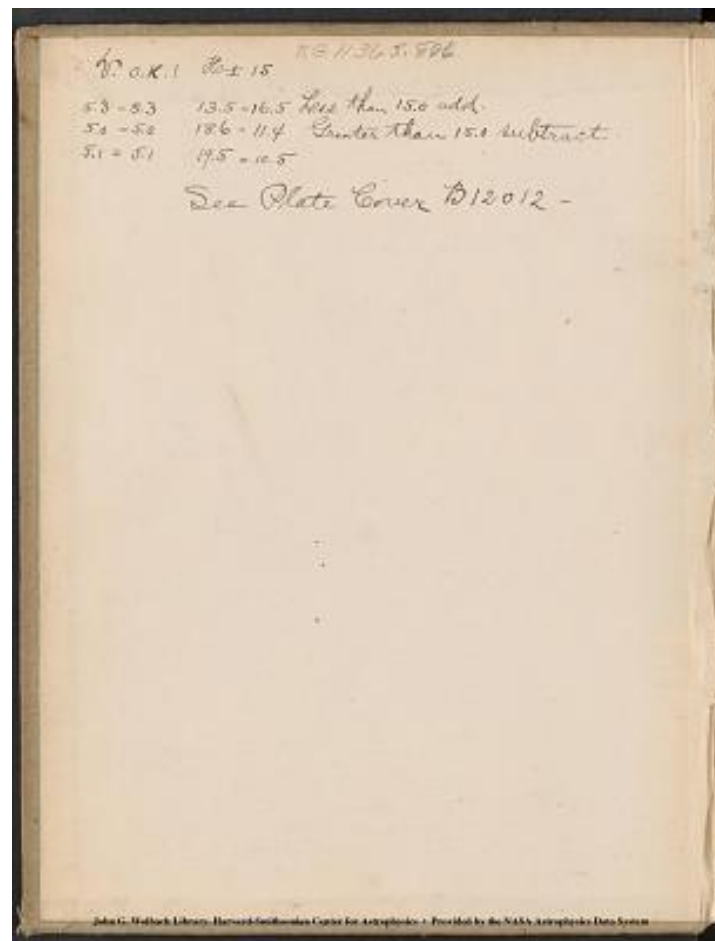
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(South Draper Catalog) #82  
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KG11365.896  
V.O.K.!  $H \pm 15$

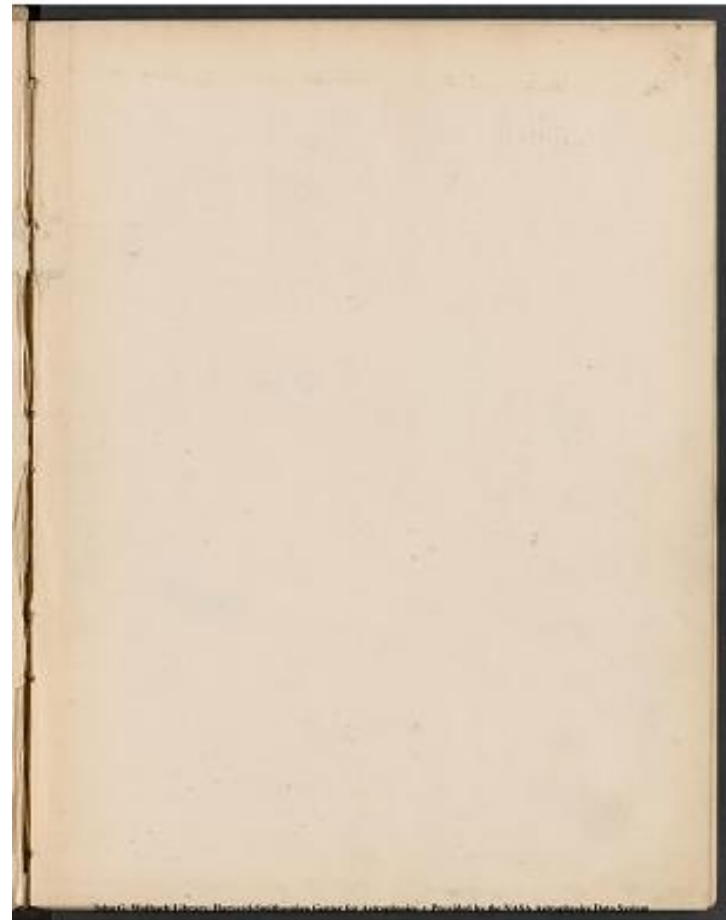
5.3=5.3 13.5=16.5 Less than 15.0 add.  
5.0=5.0 18.6=11.4 Greater than 15.0 subtract.  
5.1=5.1 19.5=10.5

See Plate Cover B12012 -

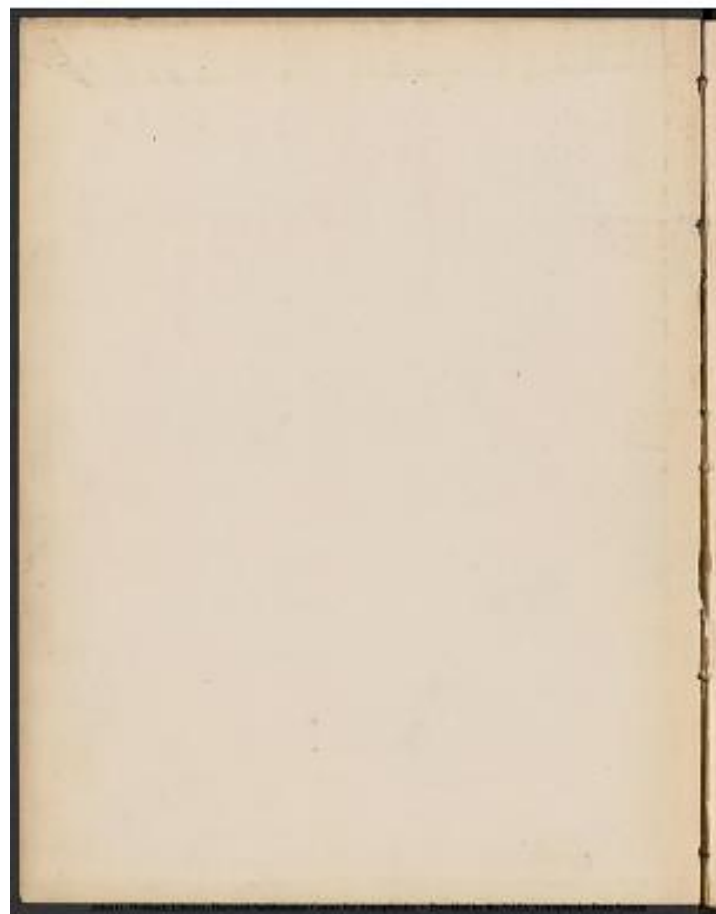
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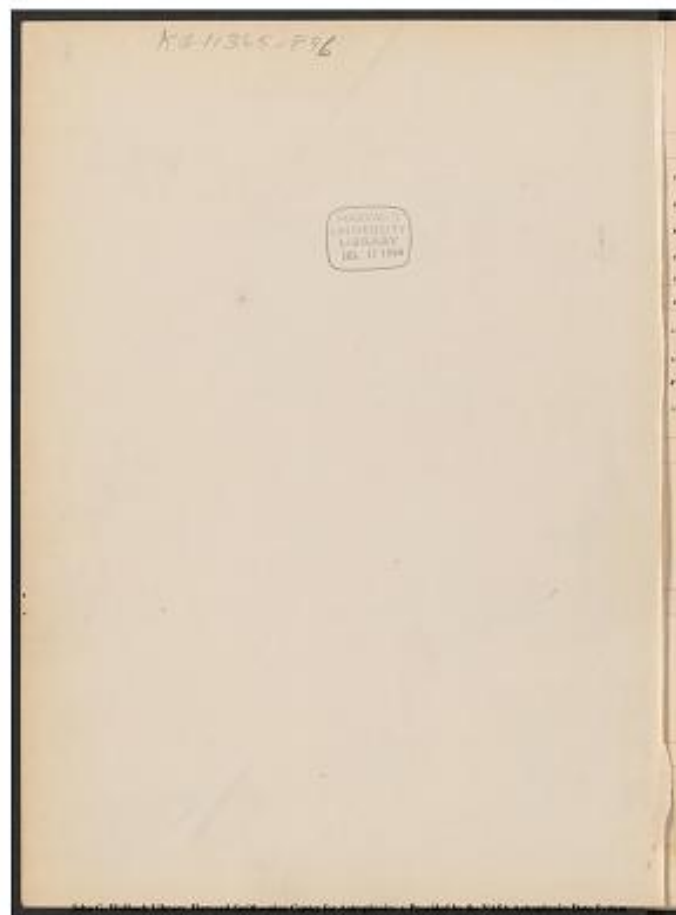
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KG 11365-896

[[stamp]]HARVARD UNIVERSITY LIBRARY Jul 17 1956[[/stamp]]



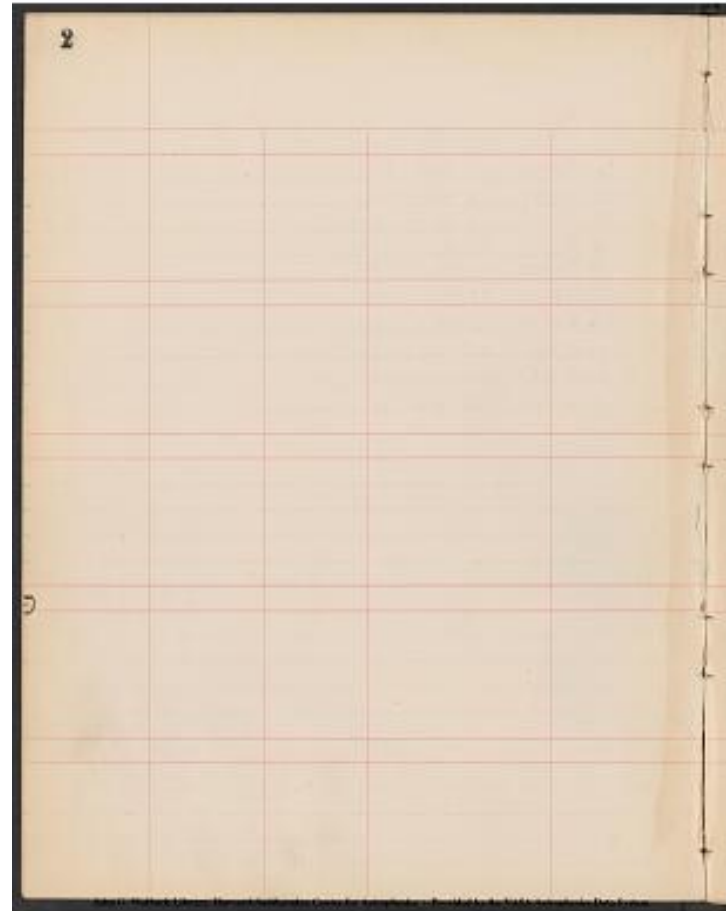
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[[table]]				
Page	Plate	R.A.	Dec.	No. Stars
4	B8592	23.0	-81.0	107
12	B19949	1.2	-80.0	162
24	B20126	3.2	-80.1	222
40	B20151	5.0	-80.0	93
48	B10820	7.1	-80.0	58
52	B8990	8.8	-80.0	141
62	B8570	2.0	-70.0	121
72	B20133	4.7	-70.3	91
80	B9062	6.0	-70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

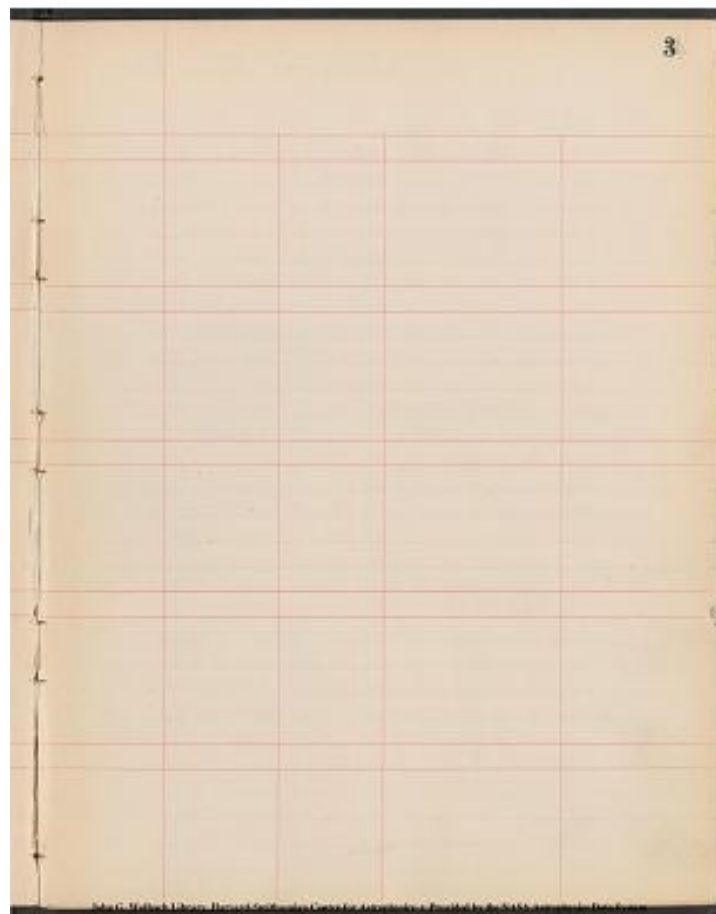
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Page	Plate	R.A.	Dec.	No. Stars
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✓ 12	B19949	1.2	-80.0	162
✓ 24	B20126	3.2	-80.1	222
✓ 40	B20151	5.0	-80.0	93
✓ 48	B10820	7.1	-80.0	58
✓ 52	B8990	8.8	-80.0	141
✓ 62	B8570	2.0	-70.0	121
✓ 72	B20133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

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4  
 R.A. 23.0 h Dec. -81.0°  
 July 23, 1903,  
 8.00 P.M.  
 Plate ~~[[striketrough]]~~ Cl~~[[striketrough]]~~ B.8592

[[table]]  
V	H	C	Rem.	L.	K.	Int	July 23, 1903 Br. 9.00 P.M.	Photom. Magn.	Diff.]
 4.8|13.4|A| |E|N|14.13| | | |  
 4.8|17.7|A| |E|N|14.00|7.36|3.36|  
 3.8|20.14|F|4862|K|10|2|3.61|6.17|2.56|  
 6.5|6.8|G| |K|10|2|3.61|3.81|6.60|2.99|  
 16.1|21.7|K| |K|10.2|3.58|3.96|6.21|2.63|  
 5.9|21.9|H| |E|N|14.11|4.45|6.52|2.41|  
 6.5|22.7|F|4863|N|10|3|3.08|5.91|2.83|  
 5.8|23.0|H| |E|N|14.35|F|6.54|2.19|  
 6.9|23.3|H| |E|10|2|4.13|4.34|6.62|2.49|  
 7.7|8.2|F|4864|K|10|1|4.13| | | |  
 8.0|9.0| |K|10|3|2.41|2.98|4.73|2.32|  
 7.2|11.5|G5K| |K|10|2|3.10|3.32|5.99|2.89|  
 7.4|17.1|A2F| |N|4|3|3.02|6.68|3.66|  
 8.1|12.2|F8G| |K|12|3|2.56|5.78|3.22|  
 8.9|13.4|A| |E|N|14.20| | | |  
 9.0|0|19|3|F|4865|K|10|1|4.08| | | |  
 8.7|A8F|4866|I|10|3|2.50|5.63|3.13|  
 8.9|22.1|F|4867|K|10|1|4.23| | | |  
 9.1|6.7|G| | |12|4|0.20|2.90|2.70|  
 9.4|7.1|K| |K|10|3|3.10|3.80|5.86|2.76|  
 9.9|18.9|H| |E|N|13.90|4.25|6.76|2.86|  
 9.4|22.0|A?F| |O|5|2|2.86|6.64|3.78|  
 9.5|24.3|G5K| |K|12|3|1.58|1.80|3.74|2.16|  
 10.4|7.7|A| |E|N|13.86| | | |  
 10.7|8.8|H| |E|N|13.67|4.00| | | |  
 10.7|10.4|H| |E|N|14.07|F| | | |  
 10.8|18.2|K| |K|10|2|3.21|3.90|6.08|2.87|  
 10.6|18.2|H| |E|N|13.90|4.25| | | |  
 11.8|8.4|F|4868|K|10|2|3.08|6.68|3.66|  
 [[/table]]

4

July 23, 1903. R.A. 23.0 Dec. -81.0

Plate 4866

W. H. W. Smith & Co. Boston, Mass.

W. H. W. Smith & Co.	Boston, Mass.
4.8 13.4 A	7.06 2.56
4.8 17.7 A	6.17 2.56
3.8 20.14 F 4862 K 10 2 3.61 6.17 2.56	6.55 2.99
6.5 6.8 G	6.21 2.63
16.1 21.7 K	6.52 2.41
5.9 21.9 H	6.54 2.19
6.5 22.7 F 4863 N 10 3 3.08 5.91 2.83	6.62 2.49
5.8 23.0 H	6.52 2.49
6.9 23.3 H	6.52 2.49
7.7 8.2 F 4864 K 10 1 4.13	6.52 2.49
8.0 9.0	6.52 2.49
7.2 11.5 G5K	6.52 2.49
7.4 17.1 A2F	6.52 2.49
8.1 12.2 F8G	6.52 2.49
8.9 13.4 A	6.52 2.49
9.0 0 19 3 F 4865 K 10 1 4.08	6.52 2.49
8.7 A8F 4866 I 10 3 2.50 5.63 3.13	6.52 2.49
8.9 22.1 F 4867 K 10 1 4.23	6.52 2.49
9.1 6.7 G	6.52 2.49
9.4 7.1 K	6.52 2.49
9.9 18.9 H	6.52 2.49
9.4 22.0 A?F	6.52 2.49
9.5 24.3 G5K	6.52 2.49
10.4 7.7 A	6.52 2.49
10.7 8.8 H	6.52 2.49
10.7 10.4 H	6.52 2.49
10.8 18.2 K	6.52 2.49
10.6 18.2 H	6.52 2.49
11.8 8.4 F 4868 K 10 2 3.08 6.68 3.66	6.52 2.49

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[[table]]

1875 Approx. | CPD Design | 1875 R.A. 1875 Dec. Magn. | R.A. 1900 Dec. 1900 | Vol. |

1875 R.A.	1875 Dec.	Magn.	R.A. 1900	Dec. 1900	Vol.
23 <sup>h</sup> 13 <sup>m</sup>	-76° 18'	15.76	23 12 8.0	-76 18.9 7.2	54

22 36 -76 5|1564|22 36 17.5 -76 4.8

7.1|22 38.4 -75 57|54|

22 15 -75 38|75 1748|22 14 55.0 -75 38.8 6.6|22 17.1 -75 31|50|

0 10 -76 36|-76 19|0 10 10.1 -76 36.4 7.4|0 11.4 -76 28|50|

22 0 -76 45|-76 1549|22 0 1.0 -76 43.6 7.0|22 2.5 -76 37|50|

21 59 -76 30|-76 1547|21 58 50.0 -76 29.3 7.3|22 1.2 -76 22|50|

21 50 -76 42|-76 1542|21 50 45.0 -76 42.8 6.0|21 53.2 -76 36|50|

21 49 -76 15|-76 1541|21 49 58.0|-76 16.4 8.0|21 52.5 -76 9|54|

0 1 -77 24|-77 1|0 1 0.3 -77 25.5 7.8| | |

23 54 -77 45|-77 1596|23 55 8.5 -77 45.4 6.0|23 56.4 -77 37|50|

23 30 -77 32|-77 1583|23 30 35.6 -77 33.6 6.9|23 32.2 -77 26|50|

22 40 -77 44|-77 1554|22 39 11.7 -77 42.6 6.6|22 41.4 -77 35|50|

23 26 -78 6|-78 1473|23 25 10.0 -78 4.5 6.4|23 26.9 -77 57|50|

23 14 -78 30|-78 1471|23 14 19.0 -78 28.3 8.0| | |

22 16 -78 21|-78 1442|22 5 37.0 -78 20.9 8.0| | |

22 6 -78 8|-78 1442|22 5 37.0 -78 7.9 6.0|22 8.1 -78 1|50|

21 49 -77 54|-77 1528|21 49 31.2 -77 54.5 7.7| | |

0 19 -77 56|-77 16|0 19 16.5 -77 57.4 3.3|0 20.5 -77 49|50|

0 16 -78 6|-78 9|0 16 8.0 -78 7.2 7.0|0 17.2 -77 59|50|

22 18 -78 50|-78 1449|22 17 51.0 -78 50.9 8.2|22 20.4 -78 43|54|

21 49 -78 17|-78 1430|21 48 41.9 -78 15.5 7.1|21 51.4 -78 8|50|

21 28 -77 58|-77 1510|21 27 29.0 -77 56.6 5.9|21 30.4 -77 50|50|

0 14 -78 40|-78 6|0 13 37.0 -78 41.0 7.5| | |

0 4 -78 58|-78 4|0 4 10.0 -78 59.8 7.9| | |

23 48 -79 24|-79 1243|23 47 55.0 -79 12.0 7.9| | |

22 24 -79 24|-79 1206|2~~3~~ 23 25.0 -79

24.9 7.4|22 25.9 -79 17|50|

22 23 -79 16|-79 1205|22 23 23.0 -79 15.2 8.2| | |

0 10 -79 27|-79 7|0 11 15.0 -79 28.4 6.4|0 12.3 -79 20|50 and 54|

[[/table]]

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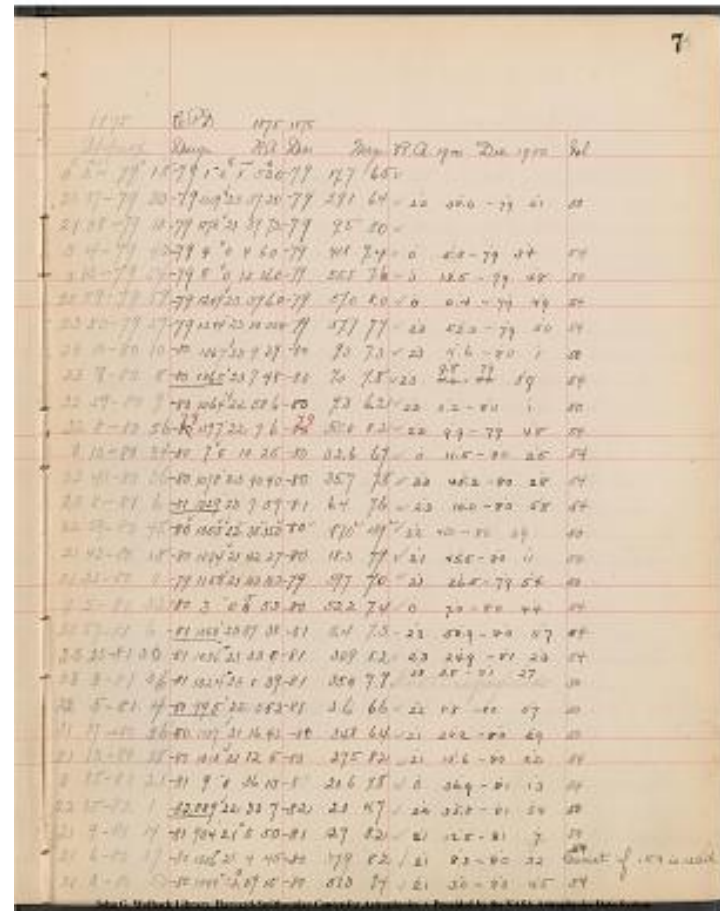
July 23, 1903  
Plate B. 8592

[[table]]									
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11.0	11.5	K		10	3	2.67	3.10	5.68	3.01
11.5	22.3	H		1	4	1.5	F		
12.7	8.6	H		10	1	4.10	F	7.80	3.70
12.1	9.2	A		1	4	0.00	7.98	3.98	
12.4	9.7	H		1	4	1.0	F	<del>12.49</del>	
								<del>7.82</del>	<del>3.72</del>
12.3	10.4	A		1	4	2.5	8.87	4.53	
12.1	14.0	G		10	3	3.22	3.43	6.29	3.07
12.0	14.1	F	4869	10	1	4.01	<del>12.49</del>		6.29
								<del>7.77</del>	<del>3.76</del>
12.0	15.0	A2F		3	3	2.51	6.20	3.69	
12.2	19.4	A		1	4	2.3	8.41	4.18	
13.8	9.1	G2K		10	3	3.02	3.60	6.66	3.64
13.4	11.3	G		10	1	4.18	7.91	3.73	
13.9	14.2	A8F	4870	10	1	4.14	8.25	4.11	
13.3	16.6	B8A	4871	3	1	6.8	5.52	3.84	
13.5	21.3	H		1	3	9.2	4.20	7.45	3.53
13.4	23.1	F8G	4872	10	3	2.87	6.33	3.46	
14.3	9.7	K		10	2	3.52	3.90	7.21	3.69
14.6	10.4	A8F	4873	10	1	3.96	7.85	3.89	
14.9	13.2	H		1	3	9.0	4.10	6.48	2.85
14.9	14.7	K		10	2	3.63	4.01	6.48	2.85
14.3	19.1	[?]	4874	12	3	2.91	5.11	2.20	
14.7	22.9	A		3	3	8.1	6.72	3.91	
14.8	23.4	H		1	4	1.0	4.35	7.39	3.29
16.0	7.7	H		1	3	7.5	4.35	7.95	3.29
15.8	16.6	A5F	4875	7	4	0.86	4.34	3.48	
16.2	22.9	A		1	4	3.3	8.13	3.80	
16.4	23.8	H		4	3.0	F	7.63	3.33	
15.9	23.9	A		2	3	6.8	7.40	3.72	

[[/table]]

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[[table]]  
 1875 Approx. | | | CPD Design | 1875 R.A. 1875 Dec. Magn. | R.A.  
 1900 Dec. 1900 | Vol. |  
 |-----|-----|-----|  
 0<sup>h</sup>[[h]]2<sup>m</sup>[[m]]-79[[symbol - degree symbol]]18°-79 1|0 1 53.0 -79 17.7  
 6.5| |  
 23|37|-79|30|-79 1239|23 37 2.0 -79 29.1 6.4|23 38.6 -79 21|50|  
 21|38|-79|10|-79 1176|21 39 7.2 -79 9.5 8.0| | |  
 0|4|-79|40|-79 4|0 4 6.0 -79 41.8 7.4|0 5.3 -79 34|54|  
 0|13|-79|54|-79 8|0 12 26.0 -79 55.5 7.6|0 13.5 -79 34|54|  
 23|59|-79|59|-79 1249|23 59 6.0 -79 57.0 8.0|0 0.4 -79 49|54|  
 23|50|-79|59|-79 1244|23 50 55.0 -79 57.0 8.0|23 52.3 -79 50|54|  
 23|10|-80|10|-80 1067|23 9 39 -80 9.3 7.3|23 11.6 -80 1|50|  
 23|8|-80|8|-80 1065|23 7 48 -80 7.0 7.8|23 ~~[[strikethrough]]~~11.6 -  
 80|~~[[strikethrough]]~~9.8 -79 59 |54|  
 22|59|-80|9|-80 1064|22 58 6 -80 9.3 6.2|23 0.2 -80 1|50|  
 22|8|-80|56|-~~[[strikethrough]]~~80|~~[[strikethrough]]~~79 1197|22 7 6 -  
~~[[strikethrough]]~~80|~~[[strikethrough]]~~79 55.0 8.2|22 9.9 -79 48|54|  
 0|10|-80|34|-80 7|0 10 25 -80 32.6 6.7|0 11.5 -80 25|54|  
 23|43|-80|36|-80 1078|23 43 40 -80 35.7 7.8|23 45.2 -80 28|54|  
 23|8|-81|6|-81 1029|23 7 59 -81 6.4 7.6|23 45.2 -80 28|54|  
 22|39|-80|45|-80 1055|22 38 35.0 -80 41.0 4.9|22 41.0 -80 39|50|  
 21|43|-80|18|-80 1034|21 42 27 -80 18.3 7.9|21 45.5 -80 11|54|  
 21|23|-80|0|-79 1158|21 23 10.3 -79 59.7 7.0|21 26.5 -79 54|50|  
 0|5|-80|52|-80 3|0 ~~[[strikethrough]]~~0|~~[[strikethrough]]~~5 53 -80 52.2 7.4|0  
 7.0 -80 44|54|  
 23|57|-81|6|-81 1050|23 57 38 -81 5.4 7.3|23 58.9 -80 57|54|  
 23|23|-81|30|-81 1036|23 23 0 -81 30.9 8.2|23 58.9 -80 57|54|  
 23|3|-81|36|-81 1024|23 1 39 -81 35.4 7.7| |50|  
 22|5|-81|4|-81 995|22 552 -81 3.6 6.6|22 8.8 -80 57|50|  
 21|17|-80|36|-80 1017|21 16 43 -80 34.8 6.4|21 20.2 -80 29|50|  
 21|13|-80|28|-80 1013|21 12 5 -80 27.5 8.2|21 15.6 -80 22|54|  
 0|35|-81|21|-81 9|0 36 13 -81 20.6 7.8|0 36.9 -81 13|54|  
 22|35|-82|1|-82 889|22 33 7 -82 2.0 4.7|22 35.8 -81 54|50|  
 21|9|-81|14|-81 954|21 8 50 -81 12.7 8.2|21 12.5 -81 7|54|  
 21|6|-80|37|-80 1006|21 4 45 -80 37.9 8.2|21 8.3 -80 32|54 Correct if  
 15.4 is read.  
 21|0|-80|50|-80 1000|2 ~~[[strikethrough]]~~1|~~[[strikethrough]]~~0 59 15 -80  
 51.3 7.4|21 3.0 -80 45|54|



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July 23, 1903

Plate B8592

[[table]]

[V. | H | b | Rem. | L. | K | Int. | Bv. | Photom. Magv. | Diff. |

V.	H.	b.	Rem.	L.	K.	Int.	Bv.	Photom. Magv.	Diff.	
17.8	11.6	G5K		K	10	3	2.41	2.90	5.68	3.27
17.4	12.0	G8K		K	12	3	2.01	2.35	5.10	3.09
16.9	24.4	A8F	4876	K	10	2	3.26	7.28	4.02	
19.0	6.0	H		E	N	1	4.15	F	8.09	3.94
18.7	6.7	H		E	N	1	4.14	F	7.79	3.65
18.1	10.8	G5K		K	10	3	2.29	2.50	5.30	3.01
18.3	12.7	F	H877	K	10	2	3.63	7.65	4.02	
18.3	13.4	A		E	N	1	4.16			
18.5	15.4	H		E	N	1	3.76	4.02	7.78	4.02
18.8	16.8	F	4878	K	10	1	3.80	8.02	4.22	
is [[?]] not 19.9										
18.7	20.1	F2G	4880	K	10	2	3.12	7.03	3.91	
18.2	21.4	A8F	4881	K	10	2	3.53	7.65	4.12	
19.4	12.3	K		K	10	2	3.50	3.83	6.75	3.25
19.8	15.7	F	4882	K	10	1	3.99			
19.6	16.7	A5F		N	10	3	2.80	6.76	3.96	
19.5	20.9	A		L	N	3	2.59	6.52	3.93	
19.1	22.1	A		E	N	1	3.90	8.14	4.24	
19.1	22.9	G		K	10	2	3.42	6.89	3.47	
21.0	5.7	H		K	10	2	3.42	3.89	7.19	3.77
20.3	9.6	A		E	N	1	3.95	9.26	5.31	
is [[?]] not 20.2										
21.0	13.0	G5K		K	10	2	3.50	3.96	7.86	4.06
20.9	13.5	A		E	N	1	4.12			
20.6	16.3	A		E	N	2	3.58	7.83	4.25	
20.3	17.4	A		E	N	1	3.76	8.08	4.32	
20.1	18.4	K		K	10	2	3.66	4.00	7.41	3.75
20.1	20.1	H		E	N	1	4.08	F		
20.2	20.8	A		O	N	2	2.89	7.11	4.22	

[[/table]]

8

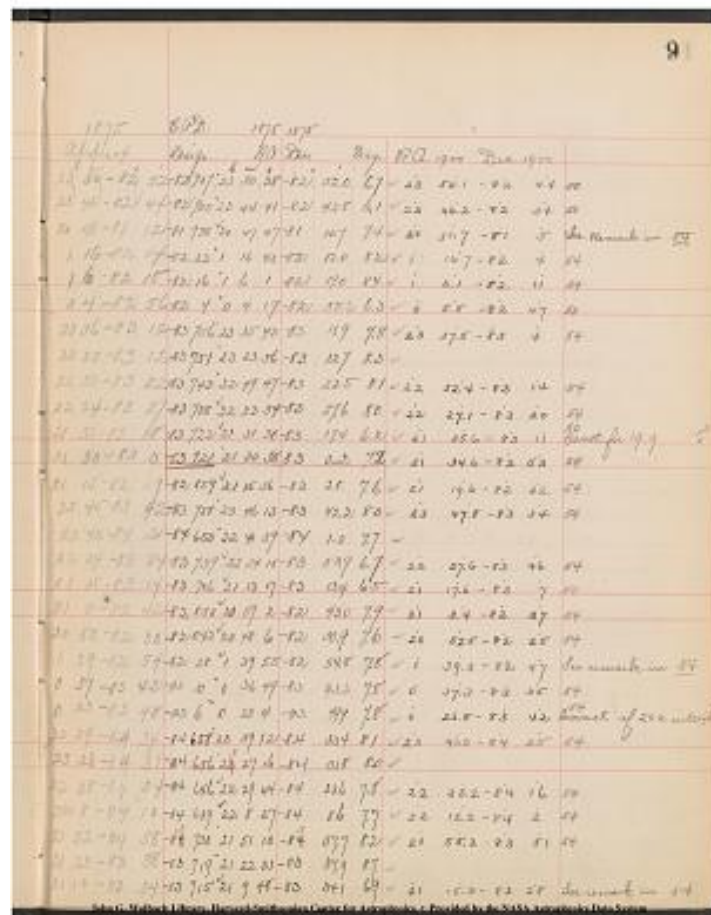
July 23, 1903

Plate B8592

V.	H.	b.	Rem.	L.	K.	Int.	Bv.	Photom. Magv.	Diff.	
17.8	11.6	G5K		K	10	3	2.41	2.90	5.68	3.27
17.4	12.0	G8K		K	12	3	2.01	2.35	5.10	3.09
16.9	24.4	A8F	4876	K	10	2	3.26	7.28	4.02	
19.0	6.0	H		E	N	1	4.15	F	8.09	3.94
18.7	6.7	H		E	N	1	4.14	F	7.79	3.65
18.1	10.8	G5K		K	10	3	2.29	2.50	5.30	3.01
18.3	12.7	F	H877	K	10	2	3.63	7.65	4.02	
18.3	13.4	A		E	N	1	4.16			
18.5	15.4	H		E	N	1	3.76	4.02	7.78	4.02
18.8	16.8	F	4878	K	10	1	3.80	8.02	4.22	
is [[?]] not 19.9										
18.7	20.1	F2G	4880	K	10	2	3.12	7.03	3.91	
18.2	21.4	A8F	4881	K	10	2	3.53	7.65	4.12	
19.4	12.3	K		K	10	2	3.50	3.83	6.75	3.25
19.8	15.7	F	4882	K	10	1	3.99			
19.6	16.7	A5F		N	10	3	2.80	6.76	3.96	
19.5	20.9	A		L	N	3	2.59	6.52	3.93	
19.1	22.1	A		E	N	1	3.90	8.14	4.24	
19.1	22.9	G		K	10	2	3.42	6.89	3.47	
21.0	5.7	H		K	10	2	3.42	3.89	7.19	3.77
20.3	9.6	A		E	N	1	3.95	9.26	5.31	
is [[?]] not 20.2										
21.0	13.0	G5K		K	10	2	3.50	3.96	7.86	4.06
20.9	13.5	A		E	N	1	4.12			
20.6	16.3	A		E	N	2	3.58	7.83	4.25	
20.3	17.4	A		E	N	1	3.76	8.08	4.32	
20.1	18.4	K		K	10	2	3.66	4.00	7.41	3.75
20.1	20.1	H		E	N	1	4.08	F		
20.2	20.8	A		O	N	2	2.89	7.11	4.22	

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
(South Draper Catalog) #82  
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[[table]]  
 1875 Approx. | | | C.P.D. Design | 1875 R.A. 1875 Dec. Magn. | R.A.  
 1900 Dec. 1900 | | |  
 -----  
 23^[[h]]50^[[m]]-82[[symbol - degree symbol]]52'-82 907|23 50 38 -82  
 52.0 6.7|23 52.1 -82 44|50|  
 23|45|-82|44|-82 905|23 44 41 -82 42.8 6.1|23 46.2 -82 34|50|  
 20|48|-81|12|-81 938|20 47 47 -81 10.7 7.4|20 51.7 -81 5|See Remark  
 in 54|  
 1|16|-82|14|-82 22|1 16 42 -82 12.0 8.2|1 16.7 -82 4|54|  
 1|6|-82|18|-82 16|1 6 1 -82 19.0 8.4|1 6.1 -82 11|54|  
 0|4|-82|56|-82 4|0 4 19 -82 55.2 6.3|0 5.5 -82 47|50|  
 23|36|-83|12|-83 756|23 35 43 -83 11.9 7.8|23 37.5 -83 4|54|  
 23|25|-83|12|-83 751|23 23 56 -83 12.7 8.3| | |  
 22|50|-83|22|-83 743|22 49 47 -83 22.5 8.1|22 52.4 -83 14|54|  
 22|24|-83|27|-83 738|22 23 54 -83 27.6 8.0|22 27.1 -83 20|54|  
 21|33|-83|18|-83 722|21 31 30 -83 17.4 6.2|21 35.6 -83 11|50 Correct for  
 19.9?|  
 21|30|-83|0|-83 721|21 30 38 83 0.2 7.2|21 34.6 -82 53|54|  
 21 15 -82 29|-82 859|21 15 36 -82 28 7.6|21 19.6 -82 22|54|  
 23|45|-83|42|-83 758|23 46 13 -83 42.2 8.0|23 47.8 -83 34|54|  
 22|42|-84|2|-84 650|22 41 59 -84 1.0 7.7| | |  
 22|24|-83|54|-83 739|22 24 15 -83 53.9 6.7|22 27.6 -83 46|54|  
 21 15 -83 14|-83 776|21 13 17 -83 13.4 6.5|21 17.6 -83 7|50|  
 21 0|-82|42|-82 850|20 59 2 -82 43.0 7.9|21 3.4 -82 37|54|  
 20|50|-82|30|-82 843|20 48 6 -82 30.9 7.6|20 52.5 -82 25|54|  
 1|39|-82|54|-82 28|1 39 55 -82 54.8 7.8|1 39.3 -82 47|See remark in 54|  
 0|37|-83|42|-83 10|0 36 49 -83 43.2 7.8|0 37.3 -83 35|54|  
 0|23|-83|48|-83 6|0 23 4 -83 49.9 7.8|0 23.8 -83 42|54 Correct if 20.2  
 intercedes  
 23|39|-84|34|-84 658|23 39 12 -84 33.4 8.1|23 41.0 -84 25|54|  
 23|26|-84|31|-84 656|2[[/strikethrough]] 2[[/strikethrough]]3 27 16 -84  
 31.8 8.0| | |  
 22|28|-84|24|-84 646|22 29 44 -84 23.6 7.8|22 33.2 -84 16|54|  
 22|8|-84|10|-84 639|22 8 27 -84 8.6 7.7|22 12.2 -84 2|54|  
 21|52|-84|58|-8[[/strikethrough]] 4[[/strikethrough]]3 730|21 51 10 -  
 8[[/strikethrough]] 4[[/strikethrough]]3 57.7 8.2|21 55.2 -83 51|54|  
 21|23|-83|38|-83 719|21 22 53 -83 37.9 8.7| | |  
 21|10|-83|34|-83 715|21 9 48 -83 34.1 6.9|21 15.3 -83 28|See remark in  
 54|  
 [[/table]]



Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
 (South Draper Catalog) #82  
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July 23, 1903

Plate B. 8592

[[table]]

V	H	Cl	Rem	L	K	Int	Br	Photon	Magn.	Diff
20.8	21.1	A8F	4884	H	10	2	3.22	7.35	4.13	
21.0	21.4	H		E	N	1	{3.78, 4.08}			
22.0	6.5	G		K	10	3	{3.9, 4.08}	5.88	1.92	
21.4	8.5	H		E	N	1	{4.20, 4.19}	3.99		
22.0	8.8	H		K	10	2	{3.70, 4.02}	7.40	3.70	
21.9	9.7	G		K	10	1	{3.28, 7.96}	4.68		
21.6	19.1	A		O	N	2	{3.29, 7.65}	4.36		
21.3	22.3	H		E	N	1	{3.76, 4.10}	7.58	3.82	
22.5	6.8	H		E	N	1	{3.72, 4.05}	7.36	3.64	
22.9	6.7	G		K	10	2	{3.60, 3.80}			
23.4	12.3	K		K	10	3	{3.01, 3.70}	5.74	2.73	
23.6	18.3	H		K	10	2	{3.37, 3.92}	6.71	3.34	
22.6	18.7	H		E	N	1	{4.22, 4.1}			
23.4	19.4	H		K	10	3	{3.25, 3.987}	6.40	3.15	
24.7	19.3	A		S	N	2	{3.80}			
24.5	19.6	H		N	2	{3.79, 4.11}	6.97	3.18		
23.7	19.9	G		K	10	2	{3.85, 7.76}	3.91		
22.8	20.2	F	4885	K	10	2	{3.48, 7.53}	4.05		
24.2	21.8	A		S	N	2	{3.53, 7.08}	3.55		
22.8	23.8	A		N	N	3	{2.61, 6.26}	3.65		

[[/table]]

9:30 P.M.

10

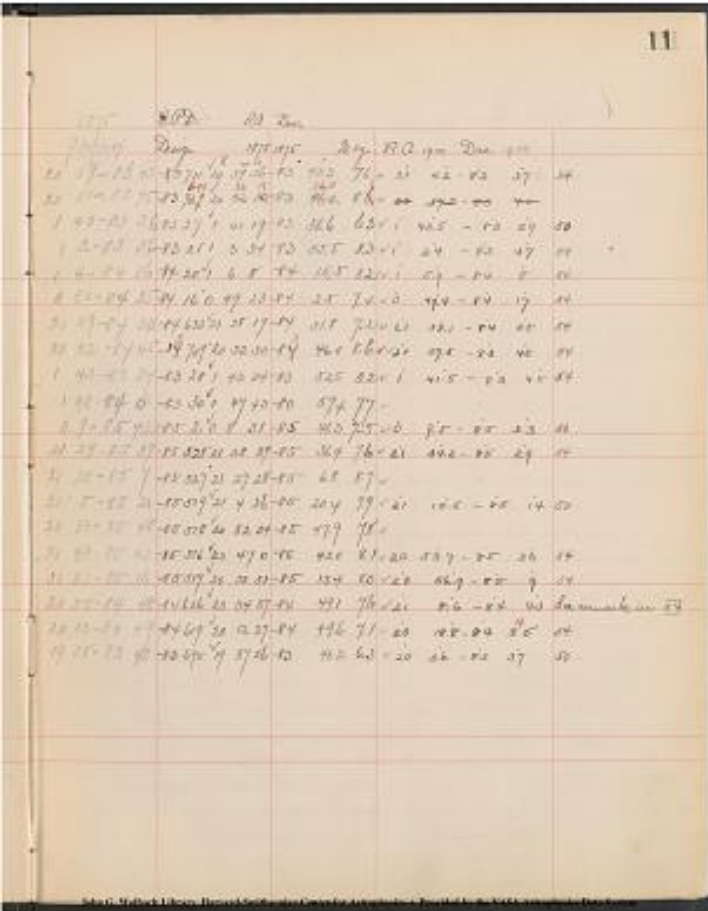
July 23, 1903

Plate B. 8592

V	H	Cl	Rem	L	K	Int	Br	Photon	Magn.	Diff
20.8	21.1	A8F	4884	H	10	2	3.22	7.35	4.13	
21.0	21.4	H		E	N	1	{3.78, 4.08}			
22.0	6.5	G		K	10	3	{3.9, 4.08}	5.88	1.92	
21.4	8.5	H		E	N	1	{4.20, 4.19}	3.99		
22.0	8.8	H		K	10	2	{3.70, 4.02}	7.40	3.70	
21.9	9.7	G		K	10	1	{3.28, 7.96}	4.68		
21.6	19.1	A		O	N	2	{3.29, 7.65}	4.36		
21.3	22.3	H		E	N	1	{3.76, 4.10}	7.58	3.82	
22.5	6.8	H		E	N	1	{3.72, 4.05}	7.36	3.64	
22.9	6.7	G		K	10	2	{3.60, 3.80}			
23.4	12.3	K		K	10	3	{3.01, 3.70}	5.74	2.73	
23.6	18.3	H		K	10	2	{3.37, 3.92}	6.71	3.34	
22.6	18.7	H		E	N	1	{4.22, 4.1}			
23.4	19.4	H		K	10	3	{3.25, 3.987}	6.40	3.15	
24.7	19.3	A		S	N	2	{3.80}			
24.5	19.6	H		N	2	{3.79, 4.11}	6.97	3.18		
23.7	19.9	G		K	10	2	{3.85, 7.76}	3.91		
22.8	20.2	F	4885	K	10	2	{3.48, 7.53}	4.05		
24.2	21.8	A		S	N	2	{3.53, 7.08}	3.55		
22.8	23.8	A		N	N	3	{2.61, 6.26}	3.65		

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
(South Draper Catalog) #82  
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[table]]									
[1875 Approx.]m[0]1[C.P.D. Design[R.A. 1875]Dec. 1875[Magn.]R.A. 1900 Dec. 1900]									
[-----]									
[20 59]-83[43]-83 711[20 59 26]-83 43.3[7.6]21 4.2 -83 37[54]									
[20 51]-83[45]-83 [[/strikethrough]] 709[[/strikethrough]]699[20									
[[/strikethrough]] 52 30 [[/strikethrough]] 36 19]-83 [[/strikethrough]]									
46.0[[/strikethrough]]36.8[8. [[/strikethrough]]									
6.0[[/strikethrough]]1[[/strikethrough]]20 57.5 -83 40[[/strikethrough]]]									
[1 40]-83[36]-83 27[1 31 19]-83 36.6[6.3]1 40.5 -83 29[50]									
[12]-83[56]-83 21[1 3 34]-83 55.5[8.3]1 3.4 -83 29[50]									
[14]-84[16]-84 20[1 6 8]-84 15.5[8.2]1 5.9 -84 8[54]									
[0 50]-84[25]-84 16[0 49 23]-84 25[7.4]0 49.4 -84 17[54]									
[21 29]-84[30]-84 633[21 28 19]-84 31.8[7.2]21 33.1 -84 25[54]									
[20 52]-84[30]-8[[/strikethrough]] 4[[/strikethrough]]3 709[20 52 30]-									
8[[/strikethrough]] 4[[/strikethrough]]3 46.0[8.6]20 57.5 -83 40[54]									
[1 42]-83[54]-83 28[1 42 24]-83 52.5[8.2]1 41.5 -83 45[54]									
[1 48]-84[0]-83 30[1 47 43]-83 59.4[7.7]									
[0 9]-85[42]-85 2[0 8 31]-85 44.3[7.5]0 9.5 -85 33[50]									
[21 29]-85[37]-85 528[21 28 39]-85 36.4[7.6]21 34.3 -85 29[54]									
[21 28]-85[7]-85 527[21 27 28]-85 6.8[8.7]									
[21 5]-85[21]-85 519[21 4 36]-85 20.4[7.9]21 10.5 -85 14[50]									
[20 53]-85[48]-85 518[20 52 54]-85 47.9[9.7]8									
[21 48]-85[43]-85 516[20 47 0]-85 42.0[8.1]20 53.7 -85 36[54]									
[20 51]-85[16]-84 517[20 50 51]-85 15.4[8.0]20 56.9 -85 9[54]									
[20 55]-84[48]-84 626[20 54 57]-84 49.1[7.6]21 0.6 -84 43[See remark in									
54]									
[20 13]-84[49]-84 619[20 12 27]-84 49.6[7.1]20 18.8 -84 [[/strikethrough]]									
5[[/strikethrough]]45[54]									
[19 58]-83[43]-83 695[19 57 56]-83 41.2[6.3]20 3.6 -83 37[50]									
[/table]]									



Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
(South Draper Catalog) #82  
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12  
 R.A. 1.2<sup>h</sup> Dec. -80.0  
 July 23, 1903  
 Plate ~~B.8592~~ B19949  
 9:30 PM  

V	H	C	Rem	L	K	Int	Br	Photon	Magn.	Diff
---	---	---	---	---	---	---	---	---	---	---

  
 5.7|8.7|M~~[[/del]]~~A~~[[/del]]~~E|N|1|{8 3.98  
 434|7.04|3.06  
 5.8|10.4|G5K|K|10|2|{3.90 4.33|  
 4.6|17.3|K|K|10|2|{3.40 3.92|6.80|3.40  
 5.3|17.5|G|K|10|2|{4.05 4.18|7.78|  
 5.8|18.1|K5~~[[/del]]~~F~~[[/del]]~~M|K|12|4|{1.80  
 3.05|4.96|3.16  
 4.7|18.8|F|4886|K|10|1|3.18|7.72|4.54  
 6.1|7.2|H|K|10|2|{3.88 4.28|7.28|3.40  
 6.2|11.4|F|4887|K|10|1|4.09|  
 6.1|13.0|H|E|N|1|{4.40 F|  
 6.6|17.0|A|E|N|1|4.25|  
 6.5|22.6|H|K|10|2|{3.65 4.15|  
 7.2|9.4|H|E|N|1|{4.11 F|  
 7.5|11.4|A|O|N|2|3.49|  
 7.4|12.2|A|E|N|2|4.2~~[[/del]]~~7~~[[/del]]~~7|  
 7.8|14.6|A|E|N|1|4.17|  
 7.4|16.6|F|4888|K|10|2|3.65|  
 7.6|18.8|A|E|N|1|4.27|  
 7.3|19.4|A|N|N|2|3.58|  
 7.5~~[[/del]]~~2~~[[/del]]~~10.6|A|E|N|1|4.16|  
 7.7|21.0|F5G|K|10|1|4.20|  
 7.8|21.7|G|K|10|1|4.20|  
 7.6|22.6|H|E|N|1|{4.15 F|  
 8.9~~[[/del]]~~4~~[[/del]]~~5.9|H|K|10|2|{3.70 4.20|  
 8.8|8.0|K|K|10|2|{3.36 3.97|6.87|3.51  
 8.6|11.6|F|4889|K|10|2|3.51|  
 8.9|1~~[[/del]]~~3~~[[/del]]~~3.7|A5F|N|10|2|4.14|  
 8.1|11.7|A5F|N|10|2|3.52|  
 8.1|14.2|F2G|4890|K|10|2|3.29|  
 9.0|13.8|H|E|N|1|{3.90 4.15|  
 9.0|15.6|H|E|N|1|{4.05 F|

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
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[[table]]

1875 Approx|C.P.D. Design|1875 R.A.|1875 Dec.|Magn.|R.A. 1900|Dec. 1900|

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

2 0-75 3|[[underlined]]-75 144|[[underlined]]2^[[h]] 0^[[m]] 37.0|[[^s]]|-75|[[degree]]| 2.8|8.4|2 0.8|-74 56 54|

1 44-75 22|-75 123|1 44 50.8|-75 21.9|8.2|

0 50-74 58|-74 74|0 50 50.7|-74 59.1|7.4|0 51.6 -74 51 54|

0 48-75 20|-75 68|0 48 54.0|-75 19.9|7.6|0 49.7|-75 12 54|

0 44-75 37|-75 64|0 44 14.0|-75 36.2|6.6|0 45.1|-75 28 50|

0 39-74 56|-74 60|0 39 30.9|-74 56.9|8.0|0 40.4|-74 49 54|

2 9-75 6|[[underlined]]-75 156|[[underlined]]2 10 24.3|-75 5.2|7.8|2 10.6|-74 58 54|

1 37-75 36|-75 111|1 37 54.8|-75 37.1|8.0|

1 25-75 42|-75 88|1 25 15.6|-75 41.5|8.4|

0 53-76 6|-76 80|0 52 45.0|-76 5.2|8.5|

0 8-75 36|-75 16|0 8 9.4|-75 36.5|7.7|

1 55-75 59|-75 140|1 55 46.8|-75 58.7|8.4|

1 40-76 18|-76 126|1 39 36.1|-76 17.6|8.0|

1 33-76 19|-76 112|1 32 37.3|-76 20.1|8.3|

1 13-76 37|-76 91|1 13 13.0|-76 37.4|8.0|

0 56-76 30|-76 81|0 55 59.0|-76 29.2|8.3|[-76 82|0 56 5.0|-76

29.2|8.9|[[/braces]]|

0 37-76 30|-76 72|0 36 50.1|-76 29.8|8.4|

0 33-76 17|-76 68|0 33 40.2|-76 17.6|7.8|

0 22-76 17|-76 40|0 22 22.5|-76 18.3|8.4|

0 19-76 22|-76 36|0 18 52.5|-76 22.2|8.4|

0 13-76 22|-76 22|0 12 36.6|-76 21.5|8.6|

0 6-76 9|-76 11|0 5 56.8|-76 10.4|8.4|

2 27-76 18|-76 201|2 27 48.0|-76 17.8|8.21|

2 10-76 34|-76 170|2 10 37.6|-76 32.8|7.8|2 10.6|-76 26 54|

1 39-76 50|-76 125|1 39 31.6|-76 52.5|7.9|

N/A|-77 47|1 21 11.5|-77 15.0|8.5|

1 37-76 40|-76 123|1 37 40.8|-76 39.2|8.0|

1 17-76 48|-76 93|1 16 46.0|-76 48.3|7.5|

1 4-77 19|-77 43|1 4 26.0|-77 20.5|8.5|

[[/table]]

13

Design R.A. Dec. 1875

1 44-75 22|-75 123|1 44 50.8|-75 21.9|8.2|

0 50-74 58|-74 74|0 50 50.7|-74 59.1|7.4|0 51.6 -74 51 54|

0 48-75 20|-75 68|0 48 54.0|-75 19.9|7.6|0 49.7|-75 12 54|

0 44-75 37|-75 64|0 44 14.0|-75 36.2|6.6|0 45.1|-75 28 50|

0 39-74 56|-74 60|0 39 30.9|-74 56.9|8.0|0 40.4|-74 49 54|

2 9-75 6|[[underlined]]-75 156|[[underlined]]2 10 24.3|-75 5.2|7.8|2 10.6|-74 58 54|

1 37-75 36|-75 111|1 37 54.8|-75 37.1|8.0|

1 25-75 42|-75 88|1 25 15.6|-75 41.5|8.4|

0 53-76 6|-76 80|0 52 45.0|-76 5.2|8.5|

0 8-75 36|-75 16|0 8 9.4|-75 36.5|7.7|

1 55-75 59|-75 140|1 55 46.8|-75 58.7|8.4|

1 40-76 18|-76 126|1 39 36.1|-76 17.6|8.0|

1 33-76 19|-76 112|1 32 37.3|-76 20.1|8.3|

1 13-76 37|-76 91|1 13 13.0|-76 37.4|8.0|

0 56-76 30|-76 81|0 55 59.0|-76 29.2|8.3|[-76 82|0 56 5.0|-76

29.2|8.9|[[/braces]]|

0 37-76 30|-76 72|0 36 50.1|-76 29.8|8.4|

0 33-76 17|-76 68|0 33 40.2|-76 17.6|7.8|

0 22-76 17|-76 40|0 22 22.5|-76 18.3|8.4|

0 19-76 22|-76 36|0 18 52.5|-76 22.2|8.4|

0 13-76 22|-76 22|0 12 36.6|-76 21.5|8.6|

0 6-76 9|-76 11|0 5 56.8|-76 10.4|8.4|

2 27-76 18|-76 201|2 27 48.0|-76 17.8|8.21|

2 10-76 34|-76 170|2 10 37.6|-76 32.8|7.8|2 10.6|-76 26 54|

1 39-76 50|-76 125|1 39 31.6|-76 52.5|7.9|

N/A|-77 47|1 21 11.5|-77 15.0|8.5|

1 37-76 40|-76 123|1 37 40.8|-76 39.2|8.0|

1 17-76 48|-76 93|1 16 46.0|-76 48.3|7.5|

1 4-77 19|-77 43|1 4 26.0|-77 20.5|8.5|

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
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[[preprinted]]14[[/preprinted]]  
 July 23, 1903  
 Plate ~~[[/del]] B 8592 ~~[[/del]] B 19949~~  
 [[table]]  

V	H	C	Rem.	L	K	Int.	Br.	Phom.	Magn.	Diff
8.9	16.8	K		K	10	2	3.23	3.82		
8.6	19.2	A8F	4891	K	10	3	2.28	6.82	4.54	
8.3	21.8	K		K	10	3	2.70	3.25	6.60	3.90
9.6	7.8	G5K		K	10	3	2.50	2.97	6.54	4.04
9.4	8.1	F	4892	K	10	2	3.63			
9.9	8.4	A8F	4893	O	10	3	2.02	6.66	4.64	
9.8	11.0	A		E	N	1	4.20			
9.2	12.9	A		E	N	1	4.00			
9.8	14.3	F2G	4894	K	10	2	3.51			
9.7	20.7	F	4895	K	10	2	3.63			
9.9	21.8	H		E	N	1	4.10	4.35		
10.7	11.5	F2G	4896		12	2	2.87			
10.1	15.3	F	4897	K	10	2	3.81			
10.8	15.8	A		r	H	3	2.90			
10.7	16.1	K		K	10	3	3.28	3.75		
10.9	18.9	F	4898	K	10	1	4.01			
10.5	20.3	G3		12	5	B	2.90			
11.0	20.6	K5		K	10	3	2.00	2.88	5.86	3.86
10.7	20.8	G		K	10	2	3.41			
10.1	22.5	F	4899	K	10	2	3.08			
10.8	22.9	K			12	4	0.40	1.70	4.73	4.33
10.9	23.1	A		E	N	1	3.80			
10.9	6.9	A		E	N	1	4.35			
11.2	10.6	A5F		O	10	3	2.45			
11.9	13.1	K		K	10	2	3.40	3.91		
11.9	18.0	K		K	12	3	1.91	2.87	6.65	
12.8	10.7	F	4900	K	10	4	1.08	6.22	5.14	
13.0	11.5	A		E	N	1	3.68			
12.8	13.0	K			12	3	1.56	2.50	6.06	4.50

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Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
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[[table]]

1875 Approx|CPD Design.|1875 R.A.|1875 Dec|Mag.| R.A. 1900| Dec.  
1900|

1875 Approx	CPD Design	1875 R.A.	1875 Dec	Mag	R.A. 1900	Dec 1900
0 32 -76 59	-76 67	0 32 9.3	-76 59.9 52	6.9	0 33.1	-76 5.2 54
0 9 -76 36	-76 19	0 10 10.1	-76 36.4	7.4	0 11.4	-76 28 50
2 14 -76 55	-76 18	2 14 22.3	-76 56.4	7.4	2 14.4	-76 49 54
2 11 -76 54	-76 17	2 11 6.1	-76 53.1	8.0		
2 10 -77 13	-77 95	2 10 23.2	-77 12.7	7.1	2 10.4	-77 6 54
1 47 -77 23	-77 68	1 46 45.0	-77 24.0	8.6		
1 29 -77 17	-77 52	1 29 30.8	-77 18.3	8.4		
1 16 -77 40	-77 46	1 16 42.5	-77 41.3	8.0		
0 17 -77 24	-77 15	0 17 57.2	-77 25.1	7.8		
0 7 -77 26	-77 5 0	7 36.4	-77 26.1	8.4		
1 44 -77 59	-77 64	1 44 37.5	-77 58.9	7.1		
1 7 -77 50	-77 45	1 7 25.0	-77 52.2	8.3		
1 2 -78 15	-78 30	1 2 41.0	-78 15.2	7.2		
0 59 -78 13	-78 28	0 59 35.0	-78 13.2	8.1		
0 32 -78 12	-78 14	0 32 54.0	-78 10.3	8.2		
0 19 -77 58	-77 16	0 19 16.5	-77 57.4	3.3	0 20.5	-77 49   50
0 16 -78 80	-78 9	0 16 8.0	-78 7.2	7.0	0 17.2	-77 59   50
0 15 -77 56	-77 56	0 14 53.5	-77 55.0	7.8		
0 1 -77 26	-77 1	0 1 0.3	-77 25.5	7.8		
23 55 -77 45	-77 1596	23 55 8.5	-77 45.4	6.0	23 56.4	-77 37   50
23 54 -77 43	-77 1594	23 54 0.5	-77 43.0	8.0		
2 25 -77 22	-77 109	2 25 35.6	-77 22.1	8.4		
1 54 -78 7	-77 40	1 50 50.0	-77 6.4	6.9		
1 30 -78 42	-78 36	1 30 41.0	-78 42.6	8.5		
0 40 -78 45	-78 21	0 40 41.0	-78 46.1	7.6	0 41.5	-78 38 54
1 56 -78 59	-78 42	1 56 5.5	-78 57.6	6.4	1 56.0	-78 51 50
1 48 -79 6	-79 45	1 48 54.0	-79 6.2	8.2		
1 32 -79 8	-79 40	1 32 49.0	-79 8.4	7.1	1 33.0	-79 1 50

15

CPD Design 1875 R.A. 1875 Dec Mag R.A. 1900 Dec 1900

0 32 -76 59	-76 67	0 32 9.3	-76 59.9 52	6.9	0 33.1	-76 5.2 54
0 9 -76 36	-76 19	0 10 10.1	-76 36.4	7.4	0 11.4	-76 28 50
2 14 -76 55	-76 18	2 14 22.3	-76 56.4	7.4	2 14.4	-76 49 54
2 11 -76 54	-76 17	2 11 6.1	-76 53.1	8.0		
2 10 -77 13	-77 95	2 10 23.2	-77 12.7	7.1	2 10.4	-77 6 54
1 47 -77 23	-77 68	1 46 45.0	-77 24.0	8.6		
1 29 -77 17	-77 52	1 29 30.8	-77 18.3	8.4		
1 16 -77 40	-77 46	1 16 42.5	-77 41.3	8.0		
0 17 -77 24	-77 15	0 17 57.2	-77 25.1	7.8		
0 7 -77 26	-77 5 0	7 36.4	-77 26.1	8.4		
1 44 -77 59	-77 64	1 44 37.5	-77 58.9	7.1		
1 7 -77 50	-77 45	1 7 25.0	-77 52.2	8.3		
1 2 -78 15	-78 30	1 2 41.0	-78 15.2	7.2		
0 59 -78 13	-78 28	0 59 35.0	-78 13.2	8.1		
0 32 -78 12	-78 14	0 32 54.0	-78 10.3	8.2		
0 19 -77 58	-77 16	0 19 16.5	-77 57.4	3.3	0 20.5	-77 49   50
0 16 -78 80	-78 9	0 16 8.0	-78 7.2	7.0	0 17.2	-77 59   50
0 15 -77 56	-77 56	0 14 53.5	-77 55.0	7.8		
0 1 -77 26	-77 1	0 1 0.3	-77 25.5	7.8		
23 55 -77 45	-77 1596	23 55 8.5	-77 45.4	6.0	23 56.4	-77 37   50
23 54 -77 43	-77 1594	23 54 0.5	-77 43.0	8.0		
2 25 -77 22	-77 109	2 25 35.6	-77 22.1	8.4		
1 54 -78 7	-77 40	1 50 50.0	-77 6.4	6.9		
1 30 -78 42	-78 36	1 30 41.0	-78 42.6	8.5		
0 40 -78 45	-78 21	0 40 41.0	-78 46.1	7.6	0 41.5	-78 38 54
1 56 -78 59	-78 42	1 56 5.5	-78 57.6	6.4	1 56.0	-78 51 50
1 48 -79 6	-79 45	1 48 54.0	-79 6.2	8.2		
1 32 -79 8	-79 40	1 32 49.0	-79 8.4	7.1	1 33.0	-79 1 50

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[[preprinted]]16[[/preprinted]]

July 2~~[[/strickethrough]]~~3~~[[/strickethrough]]~~7, 1903.

9.10 P. M. Plate ~~[[/strickethrough]]~~ B 8592 ~~[[/strickethrough]]~~ B 19949

[[table]]

V. H. Cl. Rem. L. K Int. Br. Photon. Magn. Diff.

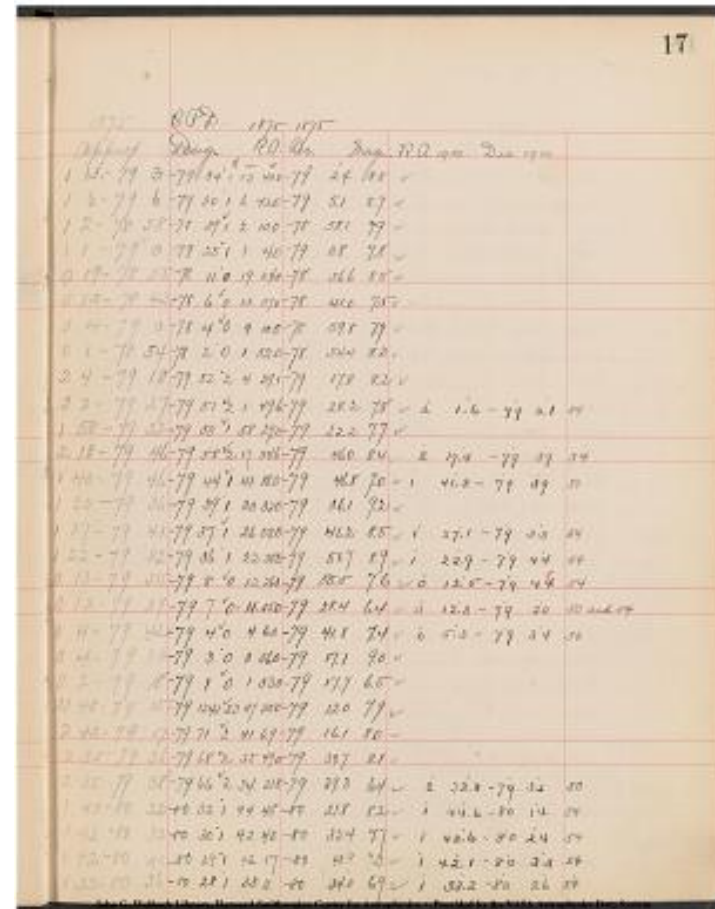
12.5	14.7	G		K	10	1	4.10		
12.5	15.4	F		K	10	1	4.05		
12.3	15.8	A		N	2	2	3.02		
12.4	15.9	A		O	<del>[[/strickethrough]]</del> 2 <del>[[/strickethrough]]</del>	2	3.30		
12.6	20.0	A		E	N	1	4.04		
12.2	20.6	A8F		4902	<del>[[/strickethrough]]</del> E <del>[[/strickethrough]]</del>	N	10	2	3.00
12.9	21.4	K		K	10	2	3.62, 2.81		
12.8	21.7	H		E	N	1	4.30, 3.49		
13.7	10.1	F	4903	K	10	2	3.50		
14.0	10.5	G5K		12	3	2.40, 3.22	6.85	4.63	
1	<del>[[/strickethrough]]</del> 4 <del>[[/strickethrough]]</del>	3.7	10.7	A8F	4904	N	12	2	3.07
15.0	9.3	H		E	N	1	4.20, 3.83	7.94	
14.1	12.4	K		K	12	3	2.70, 1.95	6.24	4.29
13.8	13.3	H		E	N	1	F, 4.30		
13.8	13.7	K		K	10	2	4.00, 3.47	8.09	4.62
14.1	14.1	F	4905	K	10	1	F, 4.30	9.22	4.92
14.6	20.2	G		K	10	2	3.19	7.98	4.79
13.7	20.5	F	4906	K	10	3	1.71	6.68	4.97
14.3	21.0	F	4907	K	10	2	3.00	7.80	4.80
13.5	21.3	H		E	N	1	F, 4.15		
13.5	21.4	A		O	2	3	2.00		
13.8	22.7	K		K	10	2	4.05, 3.26		
14.9	6.9	F	4908	K	10	1	4.25		
15.2	7.6	H		E	N	1	4.30, 3.96		
15.2	7.8	H		15	<del>[[/strickethrough]]</del> 3 <del>[[/strickethrough]]</del>	4	1.00,		
0.60	5.29	4.69							
15.4	12.4	F2G	4909	K	10	2	4.25, 3.90	8.48	4.58
15.7	12.6	F	4910	K	10	2	3.12	7.88	4.76
15.9	12.7	A		O	4	3	2.52	7.71	5.19
15.6	13.4	A		K	2	3	1.52	7.26	

[[/table]]

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
(South Draper Catalog) #82  
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[[table]]  
 1875 Approx|CPD Design.|1875 R.A.|1875 Dec|Mag.|R.A. 1900|Dec.  
 1900|

1875 Approx	CPD Design.	1875 R.A.	1875 Dec	Mag.	R.A. 1900	Dec. 1900
1 13 -79 31-79 34 1		13 40.0	-79 2.4	8.8		
1 6 -79 61-79 30 1		6 42.0	-79 5.1	8.7		
1 2 -78 58-78 29 1		2 10.0	-78 58.1	7.9		
1 1 -79 01-79 25 1		1 4.0	-79 0.8	7.8		
0 19 -78 55-78 11 0		19 24.0	-78 56.6	8.5		
0 13 -78 42-78 6 0		13 37.0	-78 41.0	7.5		
0 4 -79 01-78 4 0		4 10.0	-78 59.8	7.9		
0 1 -78 54-78 2 0		1 52.0	-78 54.4	8.3		
2 4 -79 18-79 52 2		4 39.1	-79 17.8	8.2		
2 2 -79 27-79 51 2		2 49.6	-79 28.2	7.8	2 1.6	-79 21.54
1 58 -79 22-79 50 1		58 29.0	-79 22.2	7.7		
2 18 -70 46-79 58 2		17 54.6	-79 46.0	8.4	2 17.4	-79 39.54
1 40 -79 46-79 44 1		41 18.0	-79 46.8	7.0	1 41.3	-79 39 50
1 30 -79 36-79 39 1		30 32.0	-79 36.1	9.2		
1 27 -79 41-79 37 1		26 58.0	-79 41.2	8.5	1 27.1	-79 33.54
1 22 -79 52-79 36 1		22 38.0	-79 51.7	8.9	1 22.9	-79 44.54
0 13 -79 55-79 8 0		12 26.0	-79 55.5	7.6	0 13.5	-79 44.54
0 12 -79 29-79 7 0		11 15.0	-79 28.4	6.4	0 12.3	-79 20.50 and 54
0 4 -79 42-79 4 0		4 6.0	-79 41.8	7.4	0 5.3	-79 34.54
0 4 -79 16-79 3 0		3 56.0	-79 17.1	9.0		
0 2 -79 18-79 1 0		1 53.0	-79 17.7	6.5		
23 48 -79 15-79 12		43 23	47 55.0	-79 12.0	7.9	
2 42 -79 17-79 71 2		41 6.9	-79 16.1	8.0		
2 35 -79 36-79 68 2		35 49.0	-79 34.7	8.1		
2 35 -79 38-79 66 2		34 21.8	-79 39.3	6.4	2 33.8	-79 33.50
1 45 -90 22-80 32 1		44 48	-80 21.8	8.2	1 44.6	-80 14.54
1 43 -80 32-80 30 1		42 43	-80 32.4	7.7	1 42.6	-80 24.54
1 42 -80 41-80 29 1		42 17	-80 40.0	7.3	1 42.1	-80 33.54
1 33 -80 36-80 28 1		33 11	-80 34.0	6.9	1 33.2	-80 26.54



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July 27, 1903

Plate 19949

[[11 column table]]

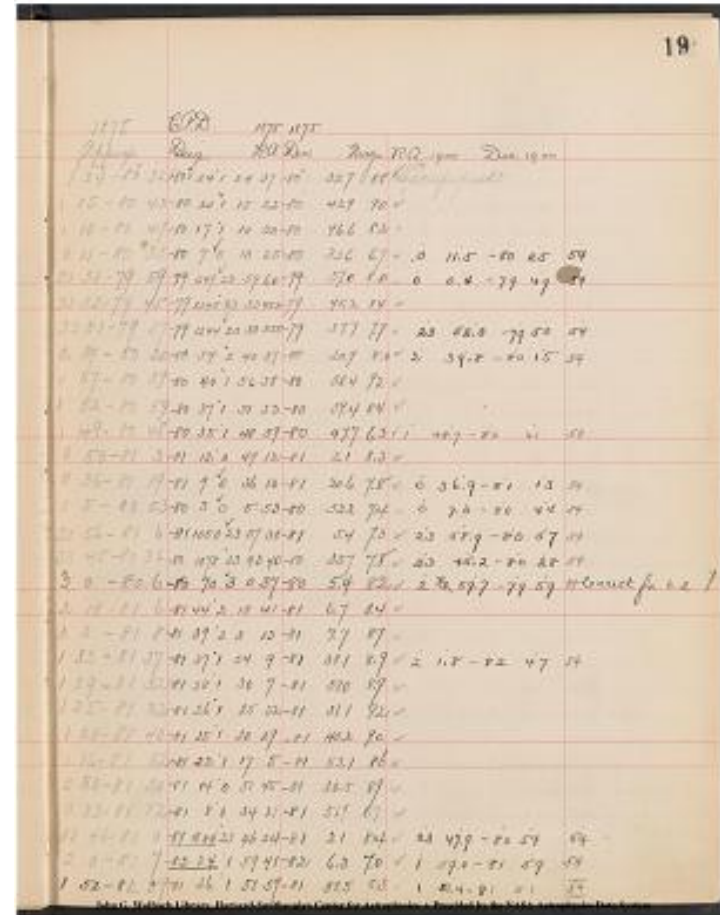
V. | H | Cl | Rem. | L. | K. | Int. | Br. | Photom. Magn. | Diff. |

15.5	14.1	g		K	10	1		3.60		
15.7	14.9	H		N	1			3.92 F		
15.8	15.3	A 5 F	4911		10	2		3.21		
15.7	<del>15.7</del>		<del>19.9</del>	<del>19.9</del>				<del>20.1</del>	K	K   12   3
1.74	2.50		6.66							
15.0	21.4	K		K	10	2		3.11 3.70	7.82	4.71
14	<del>14</del>	<del>5</del>	<del>5</del>	<del>7</del>	<del>21.9</del>	H			N	1   {3.70 4.15
15.2	22.1	A		N	2			3.70	8.78	
16.7	7.9	H		K	10	2		3.58 4.05	7.74	4.16
16.8	11.6	H		N	1			4.38 F		
16.7	12.1	A		N	1			3.8		
16.2	12.2	F	4912	V	<del>16.2</del>	u	<del>10</del>	<del>4</del>		
0.25	6.06		5.81							
16.4	16.7	<del>16.4</del>	<del>9</del>	<del>9</del>	<del>16.4</del>	A	<del>16.4</del>	<del>16.4</del>	H	
<del>16.4</del>	<del>16.4</del>	<del>16.4</del>	<del>16.4</del>	<del>16.4</del>	<del>16.4</del>	<del>16.4</del>	<del>16.4</del>	<del>16.4</del>	<del>16.4</del>	<del>16.4</del>
17.8	17.9	G		K	10	2		3.18 3.32	7.95	4.77
16.5	20.3	G2K		K	10	3		2.64 3.12	7.21	4.57
17.0	20.8	A8F	4913	N	10	2		3.06	7.85	4.79
16.5	22.3	G		K	10	2		3.55	7.91	4.36
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
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<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
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<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>	<del>G</del>	<del>16.5</del>	<del>22.3</del>
<del>16.5&lt;/</del>										

[[table]]

Approx. 1875|CPD Design|1875 R.A.|1875 Dec.|Magn.|R.A 1900|Dec. 1900|

Approx. 1875	CPD Design	1875 R.A.	1875 Dec.	Magn.	R.A 1900	Dec. 1900
1 24 - 80° 32'	-80° 24'	1 24 37	-80° 23.7	8.8	CPD 23 superposed?	
1 15 - 80 43	-80 20 1	15 22	-80 42.9	9.0		
1 10 - 80 47	-80 17 1	10 20	-80 46.6	8.2		
0 11 - 80 33	-80 7 0	10 25	-80 32.6	6.7	0 11.5	-80 25 54
23 58 - 79 59	79 1249 23	59 6.0	-79 57.0	8.0	0 0.4	-79 49 54
23 53 - 79 45	-79 1245 23	53 45.0	-79 45.2	8.4		
23 51 - 79 57	-79 1244 23	50 55.0	-79 57.7	7.7	23 52.3	-79 50 54
2 39 - 80 20	-80 54 2	40 37	-80 20.9	8.0	2 39.8	-80 15 54
1 57 - 80 59	-80 40 1	56 58	-80 58.4	9.2		
1 52 - 80 59	-80 37 1	51 23	-80 59.4	8.4		
1 49 - 80 48	-80 35 1	48 59	-80 47.7	6.3	1 48.7	-80 41 50
0 50 - 81 3	-81 12 0	49 12	-81 2.1	8.3		
0 36 - 81 19	-81 9 0	36 13	-81 20.6	7.8	0 36.9	-81 13 54
0 5 - 80 53	-80 3 0 5 53	-80 52.2	7.4	0 7.0	-80 44 54	
23 56 - 81 6	-81 1050 23	57 38	-81 5.4	7.3	23 58.9	-80 57 54
23 45 - 80 36	-80 1078 23	43 40	-80 35.7	7.8	23 45.2	-80 28 54
3 0 - 80 6	-80 70 3	0 37	-80 5.4	8.2	2	<del>[[strikethrough]]</del> 6
[[/strikethrough]] 59.7	-79 59 54	Correct fn 6.2				
2 18 - 81 6	-81 44 2	18 41	-81 6.7	8.4		
2 3 - 81 8	-81 39 2	3 13	-81 7.7	8.7		
1 53 - 81 37	-81 37 1	54 9	-81 38.1	8.9	2 1.8	-82 47 54
1 29 - 81 52	-81 28 1	30 7	-81 51.0	8.9		
1 25 - 81 32	-81 26 1	25 32	-81 31.1	9.2		
1 20 - 81 40	-81 25 1	20 29	-81 40.2	9.0		
1 16 - 81 52	-81 22 1	17 5	-81 53.1	8.6		
0 50 - 81 20	-81 14 0	51 45	-81 20.5	8.9		
0 33 - 81 52	-81 8 0	34 31	-81 51.9	8.7		
23 46 - 81 0	<u>[[underlined]]</u> -81 1044	<u>[[/underlined]]</u> 23	46 24	-81		
2.1	8.4	23 47.99	-80 54	54		
2 0 - 82 7	<u>[[underlined]]</u> -82 34	<u>[[/underlined]]</u> 1	59 41	-82 6.3	7.0	1
59.0	-81 59	54				
1 52 - 81 59	-81 36 1	51 59	-81 58.5	8.3	1 51.4	-81 51 54



Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
(South Draper Catalog) #82  
Transcribed and Reviewed by Digital Volunteers  
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July 27, 1903

Plate 19949

[[10 Columned Table]]

V. | H. | Cl. | Rem. | L. | R. | Int. | Br. | Photom. | Magn. | Diff. |

18.6	1	<del>1</del>	<del>2</del>	<del>3</del>	<del>4</del>	<del>5</del>	<del>6</del>	<del>7</del>	<del>8</del>	<del>9</del>	<del>10</del>	<del>11</del>	<del>12</del>	<del>13</del>	<del>14</del>	<del>15</del>	<del>16</del>	<del>17</del>	<del>18</del>	<del>19</del>	<del>20</del>	<del>21</del>	<del>22</del>	<del>23</del>	<del>24</del>	<del>25</del>	<del>26</del>	<del>27</del>	<del>28</del>	<del>29</del>	<del>30</del>	<del>31</del>	<del>32</del>	<del>33</del>	<del>34</del>	<del>35</del>	<del>36</del>	<del>37</del>	<del>38</del>	<del>39</del>	<del>40</del>	<del>41</del>	<del>42</del>	<del>43</del>	<del>44</del>	<del>45</del>	<del>46</del>	<del>47</del>	<del>48</del>	<del>49</del>	<del>50</del>	<del>51</del>	<del>52</del>	<del>53</del>	<del>54</del>	<del>55</del>	<del>56</del>	<del>57</del>	<del>58</del>	<del>59</del>	<del>60</del>	<del>61</del>	<del>62</del>	<del>63</del>	<del>64</del>	<del>65</del>	<del>66</del>	<del>67</del>	<del>68</del>	<del>69</del>	<del>70</del>	<del>71</del>	<del>72</del>	<del>73</del>	<del>74</del>	<del>75</del>	<del>76</del>	<del>77</del>	<del>78</del>	<del>79</del>	<del>80</del>	<del>81</del>	<del>82</del>	<del>83</del>	<del>84</del>	<del>85</del>	<del>86</del>	<del>87</del>	<del>88</del>	<del>89</del>	<del>90</del>	<del>91</del>	<del>92</del>	<del>93</del>	<del>94</del>	<del>95</del>	<del>96</del>	<del>97</del>	<del>98</del>	<del>99</del>	<del>100</del>	<del>101</del>	<del>102</del>	<del>103</del>	<del>104</del>	<del>105</del>	<del>106</del>	<del>107</del>	<del>108</del>	<del>109</del>	<del>110</del>	<del>111</del>	<del>112</del>	<del>113</del>	<del>114</del>	<del>115</del>	<del>116</del>	<del>117</del>	<del>118</del>	<del>119</del>	<del>120</del>	<del>121</del>	<del>122</del>	<del>123</del>	<del>124</del>	<del>125</del>	<del>126</del>	<del>127</del>	<del>128</del>	<del>129</del>	<del>130</del>	<del>131</del>	<del>132</del>	<del>133</del>	<del>134</del>	<del>135</del>	<del>136</del>	<del>137</del>	<del>138</del>	<del>139</del>	<del>140</del>	<del>141</del>	<del>142</del>	<del>143</del>	<del>144</del>	<del>145</del>	<del>146</del>	<del>147</del>	<del>148</del>	<del>149</del>	<del>150</del>	<del>151</del>	<del>152</del>	<del>153</del>	<del>154</del>	<del>155</del>	<del>156</del>	<del>157</del>	<del>158</del>	<del>159</del>	<del>160</del>	<del>161</del>	<del>162</del>	<del>163</del>	<del>164</del>	<del>165</del>	<del>166</del>	<del>167</del>	<del>168</del>	<del>169</del>	<del>170</del>	<del>171</del>	<del>172</del>	<del>173</del>	<del>174</del>	<del>175</del>	<del>176</del>	<del>177</del>	<del>178</del>	<del>179</del>	<del>180</del>	<del>181</del>	<del>182</del>	<del>183</del>	<del>184</del>	<del>185</del>	<del>186</del>	<del>187</del>	<del>188</del>	<del>189</del>	<del>190</del>	<del>191</del>	<del>192</del>	<del>193</del>	<del>194</del>	<del>195</del>	<del>196</del>	<del>197</del>	<del>198</del>	<del>199</del>	<del>200</del>	<del>201</del>	<del>202</del>	<del>203</del>	<del>204</del>	<del>205</del>	<del>206</del>	<del>207</del>	<del>208</del>	<del>209</del>	<del>210</del>	<del>211</del>	<del>212</del>	<del>213</del>	<del>214</del>	<del>215</del>	<del>216</del>	<del>217</del>	<del>218</del>	<del>219</del>	<del>220</del>	<del>221</del>	<del>222</del>	<del>223</del>	<del>224</del>	<del>225</del>	<del>226</del>	<del>227</del>	<del>228</del>	<del>229</del>	<del>230</del>	<del>231</del>	<del>232</del>	<del>233</del>	<del>234</del>	<del>235</del>	<del>236</del>	<del>237</del>	<del>238</del>	<del>239</del>	<del>240</del>	<del>241</del>	<del>242</del>	<del>243</del>	<del>244</del>	<del>245</del>	<del>246</del>	<del>247</del>	<del>248</del>	<del>249</del>	<del>250</del>	<del>251</del>	<del>252</del>	<del>253</del>	<del>254</del>	<del>255</del>	<del>256</del>	<del>257</del>	<del>258</del>	<del>259</del>	<del>260</del>	<del>261</del>	<del>262</del>	<del>263</del>	<del>264</del>	<del>265</del>	<del>266</del>	<del>267</del>	<del>268</del>	<del>269</del>	<del>270</del>	<del>271</del>	<del>272</del>	<del>273</del>	<del>274</del>	<del>275</del>	<del>276</del>	<del>277</del>	<del>278</del>	<del>279</del>	<del>280</del>	<del>281</del>	<del>282</del>	<del>283</del>	<del>284</del>	<del>285</del>	<del>286</del>	<del>287</del>	<del>288</del>	<del>289</del>	<del>290</del>	<del>291</del>	<del>292</del>	<del>293</del>	<del>294</del>	<del>295</del>	<del>296</del>	<del>297</del>	<del>298</del>	<del>299</del>	<del>300</del>	<del>301</del>	<del>302</del>	<del>303</del>	<del>304</del>	<del>305</del>	<del>306</del>	<del>307</del>	<del>308</del>	<del>309</del>	<del>310</del>	<del>311</del>	<del>312</del>	<del>313</del>	<del>314</del>	<del>315</del>	<del>316</del>	<del>317</del>	<del>318</del>	<del>319</del>	<del>320</del>	<del>321</del>	<del>322</del>	<del>323</del>	<del>324</del>	<del>325</del>	<del>326</del>	<del>327</del>	<del>328</del>	<del>329</del>	<del>330</del>	<del>331</del>	<del>332</del>	<del>333</del>	<del>334</del>	<del>335</del>	<del>336</del>	<del>337</del>	<del>338</del>	<del>339</del>	<del>340</del>	<del>341</del>	<del>342</del>	<del>343</del>	<del>344</del>	<del>345</del>	<del>346</del>	<del>347</del>	<del>348</del>	<del>349</del>	<del>350</del>	<del>351</del>	<del>352</del>	<del>353</del>	<del>354</del>	<del>355</del>	<del>356</del>	<del>357</del>	<del>358</del>	<del>359</del>	<del>360</del>	<del>361</del>	<del>362</del>	<del>363</del>	<del>364</del>	<del>365</del>	<del>366</del>	<del>367</del>	<del>368</del>	<del>369</del>	<del>370</del>	<del>371</del>	<del>372</del>	<del>373</del>	<del>374</del>	<del>375</del>	<del>376</del>	<del>377</del>	<del>378</del>	<del>379</del>	<del>380</del>	<del>381</del>	<del>382</del>	<del>383</del>	<del>384</del>	<del>385</del>	<del>386</del>	<del>387</del>	<del>388</del>	<del>389</del>	<del>390</del>	<del>391</del>	<del>392</del>	<del>393</del>	<del>394</del>	<del>395</del>	<del>396</del>	<del>397</del>	<del>398</del>	<del>399</del>	<del>400</del>	<del>401</del>	<del>402</del>	<del>403</del>	<del>404</del>	<del>405</del>	<del>406</del>	<del>407</del>	<del>408</del>	<del>409</del>	<del>410</del>	<del>411</del>	<del>412</del>	<del>413</del>	<del>414</del>	<del>415</del>	<del>416</del>	<del>417</del>	<del>418</del>	<del>419</del>	<del>420</del>	<del>421</del>	<del>422</del>	<del>423</del>	<del>424</del>	<del>425</del>	<del>426</del>	<del>427</del>	<del>428</del>	<del>429</del>	<del>430</del>	<del>431</del>	<del>432</del>	<del>433</del>	<del>434</del>	<del>435</del>	<del>436</del>	<del>437</del>	<del>438</del>	<del>439</del>	<del>440</del>	<del>441</del>	<del>442</del>	<del>443</del>	<del>444</del>	<del>445</del>	<del>446</del>	<del>447</del>	<del>448</del>	<del>449</del>	<del>450</del>	<del>451</del>	<del>452</del>	<del>453</del>	<del>454</del>	<del>455</del>	<del>456</del>	<del>457</del>	<del>458</del>	<del>459</del>	<del>460</del>	<del>461</del>	<del>462</del>	<del>463</del>	<del>464</del>	<del>465</del>	<del>466</del>	<del>467</del>	<del>468</del>	<del>469</del>	<del>470</del>	<del>471</del>	<del>472</del>	<del>473</del>	<del>474</del>	<del>475</del>	<del>476</del>	<del>477</del>	<del>478</del>	<del>479</del>	<del>480</del>	<del>481</del>	<del>482</del>	<del>483</del>	<del>484</del>	<del>485</del>	<del>486</del>	<del>487</del>	<del>488</del>	<del>489</del>	<del>490</del>	<del>491</del>	<del>492</del>	<del>493</del>	<del>494</del>	<del>495</del>	<del>496</del>	<del>497</del>	<del>498</del>	<del>499</del>	<del>500</del>	<del>501</del>	<del>502</del>	<del>503</del>	<del>504</del>	<del>505</del>	<del>506</del>	<del>507</del>	<del>508</del>	<del>509</del>	<del>510</del>	<del>511</del>	<del>512</del>	<del>513</del>	<del>514</del>	<del>515</del>	<del>516</del>	<del>517</del>	<del>518</del>	<del>519</del>	<del>520</del>	<del>521</del>	<del>522</del>	<del>523</del>	<del>524</del>	<del>525</del>	<del>526</del>	<del>527</del>	<del>528</del>	<del>529</del>	<del>530</del>	<del>531</del>	<del>532</del>	<del>533</del>	<del>534</del>	<del>535</del>	<del>536</del>	<del>537</del>	<del>538</del>	<del>539</del>	<del>540</del>	<del>541</del>	<del>542</del>	<del>543</del>	<del>544</del>	<del>545</del>	<del>546</del>	<del>547</del>	<del>548</del>	<del>549</del>	<del>550</del>	<del>551</del>	<del>552</del>	<del>553</del>	<del>554</del>	<del>555</del>	<del>556</del>	<del>557</del>	<del>558</del>	<del>559</del>	<del>560</del>	<del>561</del>	<del>562</del>	<del>563</del>	<del>564</del>	<del>565</del>	<del>566</del>	<del>567</del>	<del>568</del>	<del>569</del>	<del>570</del>	<del>571</del>	<del>572</del>	<del>573</del>	<del>574</del>	<del>575</del>	<del>576</del>	<del>577</del>	<del>578</del>	<del>579</del>	<del>580</del>	<del>581</del>	<del>582</del>	<del>583</del>	<del>584</del>	<del>585</del>	<del>586</del>	<del>587</del>	<del>588</del>	<del>589</del>	<del>590</del>	<del>591</del>	<del>592</del>	<del>593</del>	<del>594</del>	<del>595</del>	<del>596</del>	<del>597</del>	<del>598</del>	<del>599</del>	<del>600</del>	<del>601</del>	<del>602</del>	<del>603</del>	<del>604</del>	<del>605</del>	<del>606</del>	<del>607</del>	<del>608</del>	<del>609</del>	<del>610</del>	<del>611</del>	<del>612</del>	<del>613</del>	<del>614</del>	<del>615</del>	<del>616</del>	<del>617</del>	<del>618</del>	<del>619</del>	<del>620</del>	<del>621</del>	<del>622</del>	<del>623</del>	<del>624</del>	<del>625</del>	<del>626</del>	<del>627</del>	<del>628</del>	<del>629</del>	<del>630</del>	<del>631</del>	<del>632</del>	<del>633</del>	<del>634</del>	<del>635</del>	<del>636</del>	<del>637</del>	<del>638</del>	<del>639</del>	<del>640</del>	<del>641</del>	<del>642</del>	<del>643</del>	<del>644</del>	<del>645</del>	<del>646</del>	<del>647</del>	<del>648</del>	<del>649</del>	<del>650</del>	<del>651</del>	<del>652</del>	<del>653</del>	<del>654</del>	<del>655</del>	<del>656</del>	<del>657</del>	<del>658</del>	<del>659</del>	<del>660</del>	<del>661</del>	<del>662</del>	<del>663</del>	<del>664</del>	<del>665</del>	<del>666</del>	<del>667</del>	<del>668</del>	<del>669</del>	<del>670</del>	<del>671</del>	<del>672</del>	<del>673</del>	<del>674</del>	<del>675</del>	<del>676</del>	<del>677</del>	<del>678</del>	<del>679</del>	<del>680</del>	<del>681</del>	<del>682</del>	<del>683</del>	<del>684</del>	<del>685</del>	<del>686</del>	<del>687</del>	<del>688</del>	<del>689</del>	<del>690</del>	<del>691</del>	<del>692</del>	<del>693</del>	<del>694</del>	<del>695</del>	<del>696</del>	<del>697</del>	<del>698</del>	<del>699</del>	<del>700</del>	<del>701</del>	<del>702</del>	<del>703</del>	<del>704</del>	<del>705</del>	<del>706</del>	<del>707</del>	<del>708</del>	<del>709</del>	<del>710</del>	<del>711</del>	<del>712</del>	<del>713</del>	<del>714</del>	<del>715</del>	<del>716</del>	<del>717</del>	<del>718</del>	<del>719</del>	<del>720</del>	<del>721</del>	<del>722</del>	<del>723</del>	<del>724</del>	<del>725</del>	<del>726</del>	<del>727</del>	<del>728</del>	<del>729</del>	<del>730</del>	<del>731</del>	<del>732</del>	<del>733</del>	<del>734</del>	<del>735</del>	<del>736</del>	<del>737</del>	<del>738</del>	<del>739</del>	<del>740</del>	<del>741</del>	<del>742</del>	<del>743</del>	<del>744</del>	<del>745</del>	<del>746</del>	<del>747</del>	<del>748</del>	<del>749</del>	<del>750</del>	<del>751</del>	<del>752</del>	<del>753</del>	<del>754</del>	<del>755</del>	<del>756</del>	<del>757</del>	<del>758</del>	<del>759</del>	<del>760</del>	<del>761</del>	<del>762</del>	<del>763</del>	<del>764</del>	<del>765</del>	<del>766</del>	<del>767</del>	<del>768</del>	<del>769</del>	<del>770</del>	<del>771</del>	<del>772</del>	<del>773</del>	<del>774</del>	<del>775</del>	<del>776</del>	<del>777</del>	<del>778</del>	<del>779</del>	<del>780</del>	<del>781</del>	<del>782</del>	<del>783</del>	<del>784</del>	<del>785</del>	<del>786</del>	<del>787</del>	<del>788</del>	<del>789</del>	<del>790</del>	<del>791</del>	<del>792</del>	<del>793</del>	<del>794</del>	<del>795</del>	<del>796</del>	<del>797</del>	<del>798</del>	<del>799</del>	<del>800</del>	<del>801</del>	<del>802</del>	<del>803</del>	<del>804</del>	<del>805</del>	<del>806</del>	<del>807</del>	<del>808</del>	<del>809</del>	<del>810</del>	<del>811</del>	<del>812</del>	<del>813</del>	<del>814</del>	<del>815</del>	<del>816</del>	<del>817</del>	<del>818</del>	<del>819</del>	<del>820</del>	<del>821</del>	<del>822</del>	<del>823</del>	<del>824</del>	<del>825</del>	<del>826</del>	<del>827</del>	<del>828</del>	<del>829</del>	<del>830</del>	<del>831</del>	<del>832</del>	<del>833</del>	<del>834</del>	<del>835</del>	<del>836</del>	<del>837</del>	<del>838</del>	<del>839</del>	<del>840</del>	<del>841</del>	<del>842</del>	<del>843</del>	<del>844</del>	<del>845</del>	<del>846</del>	<del>847</del>	<del>848</del>	<del>849</del>	<del>850</del>	<del>851</del>	<del>852</del>	<del>853</del>	<del>854</del>	<del>855</del>	<del>856</del>	<del>857</del>	<del>858</del>	<del>859</del>	<del>860</del>	<del>861</del>	<del>862</del>	<del>863</del>	<del>864</del>	<del>865</del>	<del>866</del>	<del>867</del>	<del>868</del>	<del>869</del>	<del>870</del>	<del>871</del>	<del>872</del>	<del>873</del>	<del>874</del>	<del>875</del>	<del>876</del>	<del>877</del>	<del>878</del>	<del>879</del>	<del>880</del>	<del>881</del>	<del>882</del>	<del>883</del>	<del>884</del>	<del>885</del>	<del>886</del>	<del>887</del>	<del>888</del>	<del>889</del>	<del>890</del>	<del>891</del>	<del>892</del>	<del>893</del>	<del>894</del>	<del>895</del>	<del>896</del>	<del>897</del>	<del>898</del>	<del>899</del>	<del>900</del>	<del>901</del>	<del>902</del>	<del>903</del>	<del>904</del>	<del>905</del>	<del>906</del>	<del>907</del>	<del>908</del>	<del>909</del>	<del>910</del>	<del>911</del>	<del>912</del>	<del>913</del>	<del>914</del>	<del>915</del>	<del>916</del>	<del>917</del>	<del>918</del>	<del>919</del>	<del>920</del>	<del>921</del>	<del>922</del>	<del>923</del>	<del>924</del>	<del>925</del>	<del>926</del>	<del>927</del>	<del>928</del>	<del>929</del>	<del>930</del>	<del>931</del>	<del>932</del>	<del>933</del>	<del>934</del>	<del>935</del>	<del>936</del>	<del>937</del>	<del>938</del>	<del>939</del>	<del>940</del>	<del>941</del>	<del>942</del>	<del>943</del>	<del>944</del>	<del>945</del>	<del>946</del>	<del>947</del>	<del>948</del>	<del>949</del>	<del>950</del>	<del>951</del>	<del>952</del>	<del>953</del>	<del>954</del>	<del>955</del>	<del>956</del>	<del>957</del>	<del>958</del>	<del>959</del>	<del>960</del>	<del>961</del>	<del>962</del>	<del>963</del>	<del>964</del>	<del>965</del>	<del>966</del>	<del>967</del>	<del>968</del>	<del>969</del>	<del>970</del>	<del>971</del>	<del>972</del>	<del>973</del>	<del>974</del>	<del>975</del>	<del>976</del>	<del>977</del>	<del>978</del>	<del>979</del>	<del>980</del>	<del>981</del>	<del>982</del>	<del>983</del>	<del>984</del>	<del>985</del>	<del>986</del>	<del>987</del>	<del>988</del>	<del>989</del>	<del>990</del>	<del>991</del>	<del>992</del>	<del>993</del>	<del>994</del>	<del>995</del>	<del>996</del>	<del>997</del>	<del>998</del>	<del>999</del>	<del>1000</del>	<del>1001</del>	<del>1002</del>	<del>1003</del>	<del>1004</del>	<del>1005</del>	<del>1006</del>	<del>1007</del>	<del>1008</del>	<del>1009</del>	<del>1010</del>	<del>1011</del>	<del>1012</del>	<del>1013</del>	<del>1014</del>	<del>1015</del>	<del>1016</del>	<del>1017</del>	<del>1018</del>	<del>1019</del>	<del>1020</del>	<del>1021</del>	<del>1022</del>	<del>1023</del>	<del>1024</del>	<del>1025</del>	<del>1026</del>	<del>1027</del>	<del>1028</del>	<del>1029</del>	<del>1030</del>	<del>1031</del>	<del>1032</del>	<del>1033</del>	<del>1034</del>	<del>1035</del>	<del>1036</del>	<del></del>
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July 27, 1903

Plate 19949

V.	H.	Cl.	Rem.	L.	R.	Int.	Br.	Photom.	Magn.	Diff.
18.6	14.9	K		K	10	2	3.49	3.90	8.09	4.60
18.8	15.7	K		K	12	2	3.20	4.00	7.79	4.59
18.9	20.3	<del>K</del>		<del>K</del>	<del>10</del>	<del>3</del>	<del>2.25</del>	<del>3.50</del>	<del>7.39</del>	<del>5.14</del>
18.7	23.0	K		K	10	3	2.25	3.50	7.39	5.14
18.6	24.4	A		E	2	3	4.0	8.25	4.85	
19.3	8.8	A		E	1	<del>1</del>	<del>3.50</del>	<del>4.08</del>		
19.9	7.2	F	49	17	K	10	2	3.50	7.65	4.15
19.8	15.6	H		E	1	4	2.8	F		
19.8	18.0	A		E	1	4	4.3			
19.3	24.2	H		E	1	4	2.5	F		
19.6	24.4	K		K	10	3	3.18	3.20	6.48	4.30
20.6	10.2	A		E	1	4	0.1			
20.6	11.8	A		O	2	3	7.1	7.89	4.18	
21.0	12.2	F	49	18	K	10	2	3.16	7.89	4.73
20.5	12.2	H		E	1	3	7.8	4.13	8.42	4.64
20.2	13.6	K		K	10	3	2.70	3.31	7.19	4.49
20.7	15.4	G		K	10	1	4.12			
20.4	19.5	K			12	4	0.30	1.20	5.30	5.00
20.5	20.3	K		K	15	3	0.94	2.00	5.68	4.74
20.3	20.8	K			12	4	0.20	0.85	5.10	4.90
20.5	21.3	H		E	1	4	2.0	F		
21.1	9.8	G		K	10	2	2.90	3.30	7.49	4.59
21.4	10.7	A		E	1	4	0.5			
21.3	11.2	A		E	2	3	6.5			
22.1	11.3	H		K	10	2	3.49	4.12	7.85	
21.5	12.1	H		E	1	4	2.5	F		
21.1	13.1	F	49	19	K	10	2	3.70	8.25	4.55

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
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[[table]]  
 | 1875 Approx | CPD Design|1875 RA.| 1875 Dec.|Magn.|RA 1900|Dec.  
 1900| |  
 |-----|-----|-----|  
 | -82[[symbol - degree symbol]] 27|1^[[h]] 36^[[m]] 29^[[s]]|-82[[symbol  
 - degree symbol]] 3.5|7.8|[[strikethrough]] where is this  
 meas?[[/strikethrough]]| ?|  
 |116-82 12|-82 22| 1 16 42|-82 12.0|8.2|i 16.7|-82 4 | 54|  
 |16-82 19|-82 16| 1 6 1|-82 19.0| 8.4|i 6.1|-82 11|54|  
 |23 58-82 0|-82 908| 23 58 20|-82 2.5| 8.7| | |  
 |23 23-81 30|-81 1036| 23 23 0|-81 30.9| 8.2|23 24.9|-81 23|54|  
 |23 10-81 6| 81 1029| 23 7 59|-81 6.4|7.6| 23 10.0|-80 58| 54 1028  
 might be superposed|  
 |2 42-81 42|-81 56| 2 42 49|-81 41.1|8.3| | | |
 |3 7-81 36|-81 67| 3 6 52|-81 34.5| 7.6|3 5.4|-81 29|54|  
 |1 8-82 45|-82 18| 1 7 43|-82 44.4| 9.0| | |  
 |0 30-82 42|-82 11| 0 30 38|-82 42.4| 8.6| | |  
 |0 28-82 19|-82 10| 0 28 43|-82 20.8| 9.2| | |  
 |23 5-81 27|-81 1026| 23 5 45|-81 26.4| 9.0| | |  
 |23 2-81 36|-81 1024| 23 1 39|-81 35.4| 7.7| 23 3.8|-81 27|50|  
 |2 33-82 36|-82 43| 2 33 26|-82 34.3| 8.2| | |  
 |2 8-82 54|-82 39| 2 9 3.8|-82 53.5| 7.6| 2 8.5|-82 47|54|  
 |2 4-83 7|-83 35| 2 5 30|-83 6.4| 7.5|2 4.4|-82 59|54|  
 |23 -82 54|-82 37| 2 2 47|-82 53.8| 8.5|2 1.8|-82 47|54|  
 |1 38-82 54|-82 28| 1 39 55|-82 54.8| 7.8| 1 39.3|-82 47|Remark in 54|  
 |1 10-83 12|-83 24| 1 11 24|-83 12.4| 8.5| | |  
 |04-82 54|-82 4| 0 4 19|-82 55.2| 6.3| 0 5.5|-82 47|50|  
 |23 51-82 52|-82 907| 23 50 38|-82 52.0| 6.7| 23 52.1|-82 44|50|  
 |23 45-82 43|-82 905| 23 44 41|-82 42.8| 6.1| 23 46.2|-82 34|50|  
 |23 37-82 37|-82 900| 23 36 43|-82 37.2| 8.7| | |  
 |2 40-82 47|-82 46| 2 42.5|-82 46.1| 7.5| 2 40.6|-82 40| 54  
 |2 29-83 9|-83 25| 21 29 24|-83 2.1| 8.2| | | |
 |2 22-83 6|-83 43|2 22 41^[-83 42 2 21 58]]|-83 5.1| 8.5^[[8.2]]| | |  
 |2 25 -83 32|-83 44| 2 26 21|-83 31.2| 8.2| 2 24.8|-83 24|54|  
 |2 9 -83 19|-83 37| 2 9 5|-83 19.9| 8.7| | |  
 |1 50 -83 18|-83 32| 1 50 43|-83 17.6| 7.9| 1 49.8|-83 11| 54|  
 [[/table]]

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22

July 27, 1903

Plate 19949

[[table]]

[V.|H.|Cl|Rem.|L.|K|Int.|Bv.|Photom. Magn.|Diff.]

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

21.7|13.8|G5K| | |10|4|0.80, 1.40|5.88|5.08|

22.5|13.5|G5K| |K|10|3|2.43, 2.86| | |

21.4|15.6|A| |E|N|1|3.90| | |

22.0|15.9|H| |E|N|1|3.53, 4.10|8.19| |

22.7|15.8|K| |K|10|2|2.89, 3.56|7.40|4.51|

23.0|16.6|F 4920|K|10|2|3.30|7.96|4.66|

21.7|17.3|A| |N|N|2|3.27|9.26|5.99|

23.8|17.1|F 4921|K|10|1|3.69| | |

22.0|18.0|F 4922|K|10|2|3.25|8.06|4.81|

23.3|18.1|A| |E|N|1|3.96| | |

Is [[?]] not 199?|22.2|18.9|H| |E|N|1|4.40^|[4.00]|4.40|8.12|4.12|

22.2|20.1|K| |K|10|3|3.87^|[2.75]|3.87|6.75|4.00|

21.5|21.0|G| |K|10|2|2.70|7.65|4.95|

22

July 27, 1903

Plate 19949

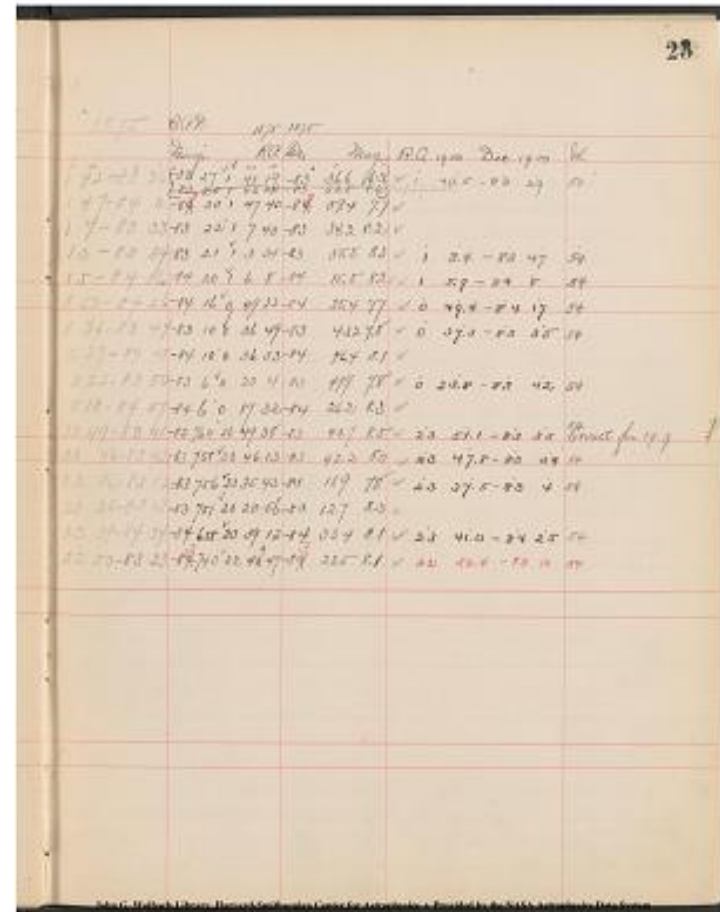
V.	H.	Cl	Rem.	L.	K	Int.	Bv.	Photom. Magn.	Diff.
21.7	13.8	G5K			10	4	0.80, 1.40	5.88	5.08
22.5	13.5	G5K		K	10	3	2.43, 2.86		
21.4	15.6	A		E	N	1	3.90		
22.0	15.9	H		E	N	1	3.53, 4.10	8.19	
22.7	15.8	K		K	10	2	2.89, 3.56	7.40	4.51
23.0	16.6	F 4920		K	10	2	3.30	7.96	4.66
21.7	17.3	A		N	N	2	3.27	9.26	5.99
23.8	17.1	F 4921		K	10	1	3.69		
22.0	18.0	F 4922		K	10	2	3.25	8.06	4.81
23.3	18.1	A		E	N	1	3.96		
Is [[?]] not 199?	22.2	18.9	H	E	N	1	4.40^ [4.00]	4.40	8.12
22.2	20.1	K		K	10	3	3.87^ [2.75]	3.87	6.75
21.5	21.0	G		K	10	2	2.70	7.65	4.95

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
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1875 C.P.D 1875 1875

[[table]]  
 | 1875 | CPD Design 1875 R.A. | 1875 Dec. Magn. | R.A. 1900 Dec. 1900  
 Vol |  
 | --- | --- | --- | --- |  
 | 1<sup>h</sup>[[h]] 42<sup>m</sup>[[m]] -83° 36' | { -83<sup>h</sup>[[h]] 27<sup>m</sup>[[m]] 1 41 19 | -83° 36.6' 6.3 } | 1  
 40.5 -83 29 | 50  
 | { [[strikethrough]] -83 28 1 42 24 | -83 52.5 8.2 [[/strikethrough]] }  
 superposed.  
 | 1 47 - 84 0 | [[strikethrough]]-84[[/strikethrough]] -83 30 1 47 43 |  
 [[strikethrough]]-84[[/strikethrough]] -83 59.4 7.7 | [[checkmark]]  
 | 1 7 - 83 33 | -83 22 1 7 40 | -83 34.2 8.2 |  
 | 1 3 - 83 54 | -83 21 1 3 34 | -83 55.5 8.3 | 1 3.4 - 83 47 | 54  
 | 1 5 - 84 16 | -84 20 1 6 8 | -84 15.5 8.2 | 1 5.9 - 84 8 | 54  
 | 0 50 - 84 26 | -84 16 0 49 23 | -84 25.4 7.7 | 0 49.4 - 84 17 | 54  
 | 0 36 - 83 44 | -83 10 0 36 49 | -83 43.2 7.8 | 0 37.3 - 83 35 | 54  
 | 0 37 - 84 48 | -84 10 0 36 53 | -84 46.4 8.1 |  
 | 0 22 - 83 50 | -83 6 0 23 4 | -83 49.9 7.8 | 0 23.8 - 83 42 | 54  
 | 0 18 - 84 27 | -84 6 0 17 32 | -84 26.2 8.3 | 23 49 - 83 41 | -83 76 0 23  
 49 38 | -83 40.7 8.5 | 2.3 51.1 - 83 33 | 54 correct for 19.9?  
 | 23 46 - 83 41 | -83 758 23 46 13 | -83 42.2 8.0 | 23 47.8 - 83 34 | 54  
 | 23 36 - 83 12 | -83 756 23 35 43 | -83 11.9 7.8 | 23 37.5 - 83 4 | 54  
 | 23 24 - 83 12 | -83 751 23 23 56 | -83 12.7 8.3 |  
 | 23 39 - 84 34 | -84 658 23 39 12 | -84 33.4 8.1 | 23 41.0 - 84 25 | 54  
 | 22 50 - 83 23 | [[strikethrough]]-84[[/strikethrough]] -83 743 22  
 [[strikethrough]]40[[/strikethrough]] 49 47 | [[strikethrough]]-  
 84[[/strikethrough]] -83 22.5 8.1 | 22 52.4 - 83 | 14 | 54



Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
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July 31, 1903.

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

[[table]]

9.20 P.M.	V	H	CL	Rem.	L.	K.	Int.	Br.	Photon Magn.	Diff.
5.1	9.8	F	4923		10	2	3.76	7.44	3.68	
5.1	11	<del>[[/del]]</del>	<del>[[/del]]</del>	4	<del>[[/del]]</del>	.2	A5F	4924		10
3.31	7.12	3.81								
1.7	<del>[[/del]]</del>	<del>[[/del]]</del>	13.4	<del>[[/del]]</del>	12.3	A		2	2	3.65
7.74										
4.7	13.4	A		N	1	4.21	8.08	3.87		
4.7	14.7	K		K	10	1	4.32	7.68	3.36	
4.8	21.0	F	4925	K	10	1	4.20	7.91	3.77	
4.7	22.8	A		N	1	4.35				
6.2	<del>[[/del]]</del>	0	<del>[[/del]]</del>	9.1	A		N	1	4.38	
5.7	12.0	F	4926	K	10	1	4.44			
5.4	17.4	K		K	12	3	1.50	2.70	4.70	3.2
5.3	22.7	K		K	10	2	3.70	4.23	7.28	3.58
lug	Uus	not to be	240?	5.4	23.0	Mb	<del>[[/del]]</del>	e		
<del>[[/del]]</del>	<del>[[/del]]</del>	<del>[[/del]]</del>	<del>[[/del]]</del>	N	2	3.82	4.34	7.04	3.22	
6.9	1.4	K		N	1	4.26	F			
6.8	24.0	H		N	1	4.3	F			
6.8	14.7	F	4927		10	2	3.95			
6.6	15.5	F	4928	K	10	1	4.19			
6.9	16.8	A		N	1	4.17				
6.2	17.0	F	4929	K	10	1	4.26			
<del>[[/del]]</del>	<del>[[/del]]</del>	6.9	<del>[[/del]]</del>	<del>[[/del]]</del>	<del>[[/del]]</del>	16.8				
<del>[[/del]]</del>	<del>[[/del]]</del>	<del>[[/del]]</del>	<del>[[/del]]</del>	<del>[[/del]]</del>	<del>[[/del]]</del>	<del>[[/del]]</del>	<del>[[/del]]</del>	<del>[[/del]]</del>	<del>[[/del]]</del>	<del>[[/del]]</del>
7.9	7.0	H		N	1	4.24	F			
7.4	10.0	H		10	1	4.12	4.50	~		
7.5	16.0	H		N	1	4.38	G			
7.9	16.3	A8F	4930	N	<del>[[/del]]</del>	H	<del>[[/del]]</del>	10	2	
3.70										
7.6	17.7	K		K	10	2	3.73	4.10		
7.3	19.9	F2G	4931	i	10	2	3.13	6.96	3.83	
7.2	19.8	F	4932	K	10	2	3.81			
7.1	20.1	K		K	10	2	3.49	4.15		
7.4	21.1	F	4933	K	10	1	4.26			
6.9	21.3	A		N	1	4.39				

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
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[[table]]

Approx 1875] | | CPD Design.|1875 R.A.|1875 Dec.|Magn.|R.A.  
1900 Dec. 1900] |

3	51	-75	5	-75	251	3	50	27.0	-75	4.4	7.4	3	49.9	-75	0	54
3	40	-75	14	-75	244	3	39	49.0	-75	13.5	7.4	3	39.4	-75	8	54
3	30	-75	1	-75	236	3	31	52.0	-75	1.1	7.7	3	31.5	-74	56	54
3	22	-75	2	-75	231	3	22	53.8	-75							
2	2	-76	6	-76	242	2	2	57.6	-76	22.6	74	57	54			
3	12	-75	9	-75	225	3	12	43.0	-75	8.0	8.2	3	12.4	-75	2	54
2	24	-75	0	-75	172	2	23	44.5	-75	0.1	8.0	2	23.8	-74	53	54
2	11	-74	41	-74	180	2	10	52.0	-74	40.3	8.0					
3	58	-75	32	-75	254	3	57	54.0	-75	31.2	8.5					
3	35	-75	33	-75	238	3	35	7.5	-75	33.0	8.7					
2	51	-75	36	-75	204	2	51	18.0	-75	34.5	6.5	2	51.1	-75	29	50
2	10	-75	5	-75	156	2	10	24.3	-75	5.2	7.8	2	10.6	-74	58	54
2	0	-75	3	-75	144	2	0	37.0	-75	2.8	8.4	2	0.8	-74	56	54

Correct if 24.0 was [[?]]?

3	40	-76	10	-76	242	3	41	19.0	-76	9.8	8.6					
3	20	-76	15	-76	232	3	19	50.0	-76	15.0	8.5					
3	13	-76	17	-76	230	3	13	13.0	-76	16.6	7.8					
3	7	-76	11	-76	227	3	7	3.0	-76	10.4	8.0					
2	56	-76	20	-76	222	2	55	42.0	-76	20.0	8.6					
2	55	-75	57	-75	207	2	54	42.0	-75	56.3	8.1					
4	18	-76	7	-76	265	4	18	7.0	-76	6.8	8.3					
3	53	-76	7	-76	251	3	53	25.0	-76	15.8	8.5					
3	3	-76	40	-76	224	3	2	58.0	-76	39.5	9.1					
2	59	-76	50	-76	223	2	59	33.0	-76	49.5	8.0					
2	48	-76	43	-76	217	2	47	48.0	-76	42.9	8.0					
2	34	-76	27	-76	211	2	33	50.0	-76	26.4	6.8	2	33.6	-76	20	54
2	30	-76	21	-76	206	2	30	29.7	-76	20.1	7.8					
2	27	-76	18	-76	201	2	27	48.0	-76	17.8	8.2					
2	19	-76	20	-76	186	2	19	18.5	-76	19.1	8.4					
2	18	-76	2	-76	184	2	18	41.8	-76	1.4	8.7					

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Plate B20126

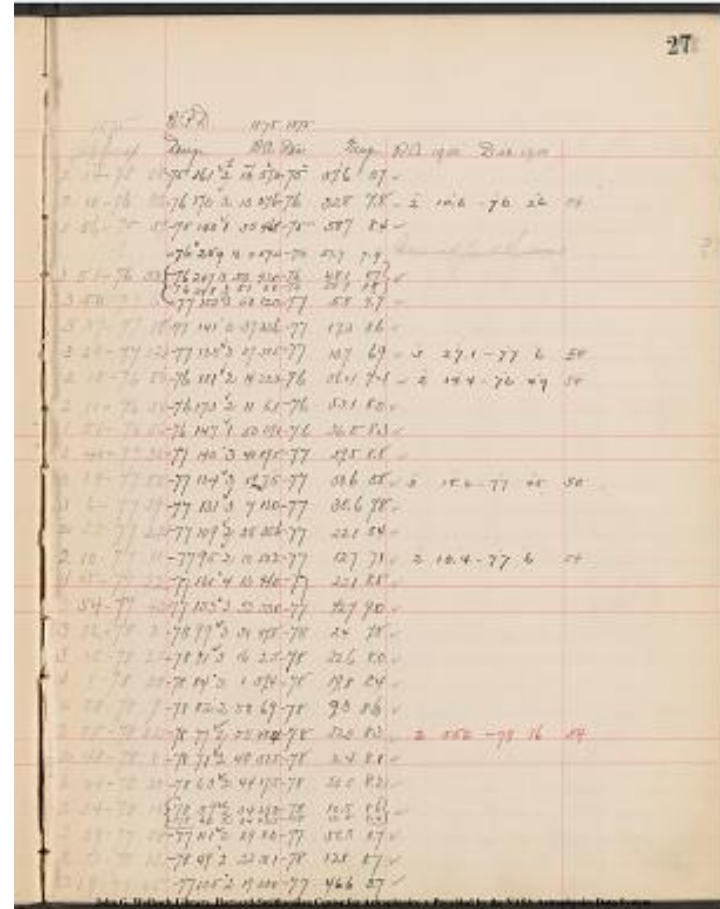
[[table]]  
V.	H.	Cl.	Rem.	L.	K.	Rem.	Br.	Photom. Magn.	Diff.
 6.9|21.9|H|---|E|n|1|4.33|---|---|  
 8.0|22.0|K|---|10|2|~~3.68~~ 4.10|~~3.35~~ 3.35  
 3.80|6.87|3.52|  
 7.4|24.1|K|---|K|10|2|3.68 4.10|---|---|  
 8.7|~~12~~|~~12~~|~~12~~|9.4|F|4934|K|10|2|3.98|---|---|  
 8.4|10.5|F|4935|K|10|1|4.12|---|---|  
 8.9|10.7|A|---|K|n|2|3.72|---|---|  
 9.0|12.2|F|4936|K|10|1|4.18|---|---|  
 8.7|13.2|A|---|K|3|3|2.83|6.89|4.06|  
 8.6|21.4|G5K|---|K|10|3|2.79 3.07|6.54|3.75|  
 8.6|21.8|F|4937|K|10|2|3.50|---|---|  
 8.8|24.2|F|4938|K|10|1|4.10|---|---|  
 9.4|11.9|H|---|E|n|1|4.28 F|---|---|  
 9.8|14.2|F2G|4939|V|10|4|1.10|5.53|4.43|  
 9.4|15.5|F|4940|K|10|1|3.78|---|---|  
 9.3|20.0|F4941|K|10|2|4.03|---|---|  
 9.2|21.7|A5F|4942|i|10|3|2.10|6.66|4.56|  
 10.1|8.3|F|4943|K|10|1|4.22|---|---|  
 10.1|10.6|H|---|E|n|1|4.32 F|---|---|  
 10.3|13.0|K|---|K|10|3|3.50 4.02|---|---|  
 10.9|14.6|F|4944|K|10|2|3.79|---|---|  
 10.8|16.0|F|4945|K|10|1|4.08|---|---|  
 10.5|16.4|H|---|E|n|1|4.12 F|---|---|  
 10.9|16.7|K|---|K|10|2|3.95 4.34|7.56|---|  
 10.3|17.4|A|---|E|n|1|4.11|---|---|  
 10.9|17.8|A|---|E|n|1|4.00|---|---|  
 10.7|18.8|F|4946|K|10|1|3.96|---|---|  
 10.4|19.5|H|---|E|n|1|4.06 4.40|---|---|  
 11.0|20.1|F|4947|K|10|1|4.20|---|---|  
 9.50 PM. |10.2|20.5|A|---|E|n|1|4.32|---|---|

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
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[[table]]

1875 Approx. | C.P.D. Design. | 1875 R.A. | 1875 Dec. | Magn. | R.A. 1900 |  
Dec. 1900 |

2 14	-75 58	-75 161	2 13	57.3	-75 57.6	87				
2 10	-76 33	-76 170	2 10	37.6	-76 32.8	7.8	2	10.6	-76 26	54
1 56	-75 59	-75 140	1 55	46.8	-75 58.7	8.4				
?	-76° 259	4 0 57.0	-76 51.7	7.9	[[strikethrough]]	cannot find	[[?]]			
3 51	-76 50	-76 247	3 50	43.0	-76 48.1	8.7				
	-76 248	3 51 3.0	-76 50.9	8.8						
3 50	-77 6	-77 150	3 50	12.0	-77 5.8	7.7				
3 37	-77 18	-77 141	3 37	33.6	-77 17.3	8.6				
3 28	-77 12	-77 135	3 27	38.5	-77 10.7	6.9	3	27.1	-77 6	54
2 15	-76 56	-76 181	2 14	22.3	-76 56.4	7.4	2	14.4	-76 49	54
2 11	-76 54	-76 173	2 11	6.1	-76 53.1	8.0				
1 51	-76 36	-76 147	1 50	39.1	-76 36.5	8.3				
3 40	-77 30	-77 143	3 40	29.5	-77 29.5	8.8				
3 19	-77 51	-77 134	3 19	7.5	-77 50.6	5.8	3	18.4	-77 45	50
3 6	-77 39	-77 131	3 7	11.0	-77 38.6	7.8				
2 25	-77 22	-77 109	2 25	35.6	-77 22.1	8.5				
2 10	-77 11	-77 95	2 10	23.2	-77 12.7	7.1	2	10.4	-77 6	54
4 15	-77 22	-77 161	4 13	44.0	-77 22.1	8.5				
3 54	-77 43	-77 153	3 52	53.0	-77 42.7	9.0				
3 32	-78 3	-78 99	3 31	47.8	-78 24	7.8				
3 15	-78 22	-78 91	3 16	2.5	-78 22.6	8.0				
3 1	-78 20	-78 84	3 1	59.4	-78 19.8	8.4				
2 58	-78 9	-78 82	2 58	6.9	-78 9.0	8.6				
2 58	-78 22	-78 77	2 55	48.4	-78 22.0	8.3	2	55.2	-78 16	54
2 48	-78 1	-78 71	2 48	51.5	-78 2.4	8.1				
2 44	-78 20	-78 63	2 44	17.5	-78 20.0	8.2				
2 34	-78 10	-78 59	2 34	29.0	-78 10.5	8.6				
	-78 60	2 34 42.5	-78 10.5	8.4						
2 29	-77 58	-77 111	2 29	8.0	-77 58.5	8.7				
2 22	-78 12	-78 49	2 22	31.1	-78 12.8	8.7				
2 19	-77 45	-77 105	2 19	28.0	-77 46.6	8.7				



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August 1, 1903  
Plate 20 126  
8.15 P.M.

[[table]]												
V	H	Cl	Rem	L	K	Int.	Br	Photom.	Magn	Diff.		
11.0	230	H		K	10	2		4.06	F			
10.4	24.1	F	4948	K	10	1		3.96				
11.7	6.9	F	4949	K	10	2		3.47				
11.5	9.2	F	4950	K	10	1		4.22				
11.9	11.6	H		E	N	1		4.29	F			
11.8	12.1	K		K	12	2		2.85	3.20	6.08	3.23	
11.8	12.8	K			12	3		1.80	2.27	5.64	3.84	
11.4	16.4	G		K	10	1		4.30				
11.1	19.6	F	4951	K	10	1		4.25				
11.5	22.7	H		E	N	1		4.21	F			
11.4	22.9	A		i	4	3		2.54				
11.5	23.9	F	4952	<del>K</del>	<del>10</del>	<del>2</del>		3.16				
<del>5.88</del>												
12.1	5.5	G5K		K	10	3		2.50	3.11	5.88	3.38	
12.2	7.7	H	E	N	1			4.11	F			
Don't this 9.6?												
12.7	9.7	G		K	10	1		3.91				
12.8	11.7	A		E	N	1		4.02				
12.7	14.4	A5F	4953	nu	10	2		3.26				
13.0	15.0	F	4954	mu	10	3		1.00	5.70			
12.7	15.5	F	4955	K	10	1		4.09				
12.5	16.7	H		E	N	1		4.10	F			
12.7	17.9	A		nu	N	2		3.80				
12.2	18.7	F	4956	K	10	1		4.00				
12.9	22.2	F3G	4957	i	10	3		1.95	6.22			
13.3	6.6	A		E	N	1		4.10				
13.7	6.9	A		E	N	2		3.35				
13.6	7.8	F	4958	K	10	1		4.06				
13.8	9.1	A		E	N	2		3.64				
14.0	10.1	F	4959	K	10	1		3.97				

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
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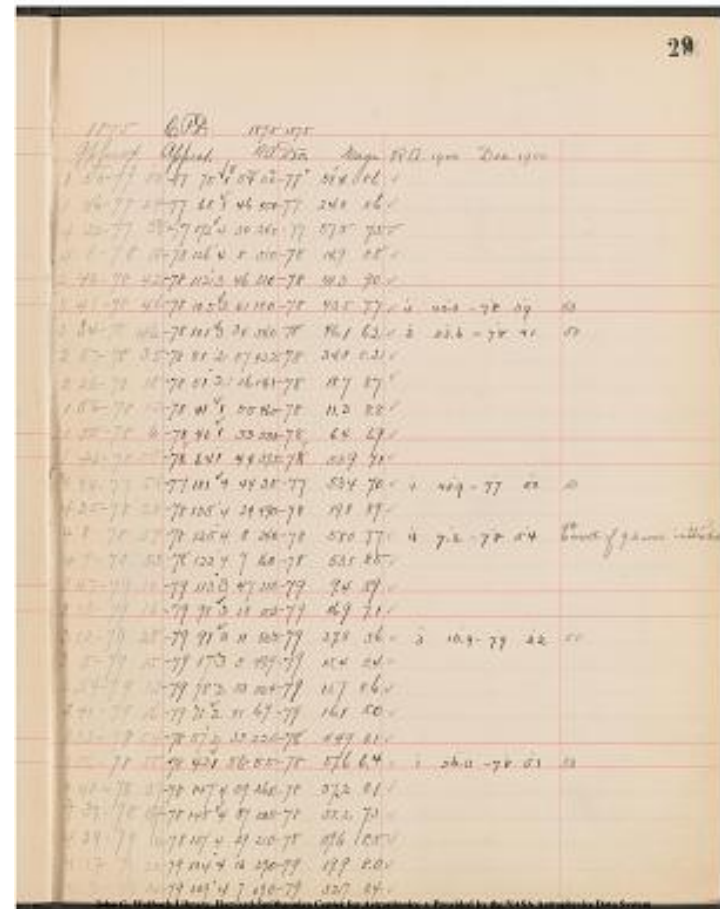
[[preprinted]]29[[/preprinted]]

[[table]]

1875 Approx|CPD Aprox.|R.A. 1875|Dec. 1875|Magn.|R.A. 1900|Dec. 1900|

1 53 -77	50'	-77 75	1 <sup>h</sup>	54 <sup>m</sup>	30 <sup>s</sup>				
77	51.4	86							
1 46 -77 24	-77 68	1 46 45.0	-77 24.0	8.6					
4 32 -77 58	-77 172	4 30 24.0	-77 57.5	17.5					
4 8 -78 15	-78 126	4 8 51.0	-78 14.9	8.8					
3 46 -78 42	-78 112	3 46 31.0	-78 44.3	9.0					
3 41 -78 44	-78 105	3 41 18.0	-78 43.5	17.7	3 40.3	-78 39	50		
3 34 -78 46	-78 101	3 34 34.0	-78 46.1	16.2	3 33.6	-78 41	50		
2 57 -78 35	-78 81	2 57 42.2	-78 34.8	8.2					
2 20 -78 18	-78 51	2 26 14.1	-78 18.7	8.7					
1 56 -78 12	-78 41	1 55 46.0	-78 11.3	8.8					
1 55 -78 6	-78 40	1 53 50.0	-78 6.4	6.9					
1 44 -78 58	<del>7</del>	<del>58.9</del>	<del>7.1</del>	<del>7.1</del>	7 64	1 44	37.5		
4 44 -77 54	-77 181	4 44 3.5	-77 53.4	7.0	4 42.9	-77 50	50		
4 25 -78 20	-78 135	4 24 49.0	-78 19.8	8.9					
4 8 -78 59	-78 125	4 8 24.0	-78 58.0	7.7	4 7.2	-78 54	54	Correct if 9.6	
was intended?									
4 7 -78 53	-78 123	4 7 16.0	-78 53.1	8.5					
3 47 -79 10	-79 113	3 47 21.0	-79 9.4	8.9					
3 18 -79 16	-79 98	3 18 15.3	-79 16.9	7.1					
3 12 -79 28	-79 91	3 11 50.3	-79 27.8	5.6	3 10.9	-79 22	50		
3 5 -79 15	-79 87	3 5 49.9	-79 15.4	8.4					
2 54 -79 13	-79 78	2 53 50.4	-79 11.7	8.6					
2 41 -79 16	-79 71	2 41 6.9	-79 16.1	8.0					
2 33 -78 54	-78 57	2 33 22.5	-78 54.9	8.1					
1 56 -78 58	-78 42	1 56 5.5	-78 57.6	6.4	1 56.0	-78 51	50		
4 40 -78 37	-78 147	4 39 26.0	-78 37.2	8.1					
4 38 -78 54	-78 145	4 37 50.0	-78 53.2	8.1					
4 29 -79 10	-78 137	4 29 21.0	-78 59.6	8.5					
4 17 -79 20	-79 134	4 16 29.0	-79 19.8	8.0					
4 7 -79 33	-79 129	4 7 19.0	-79 32.7	8.4					

[[/table]]



Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates (South Draper Catalog) #82  
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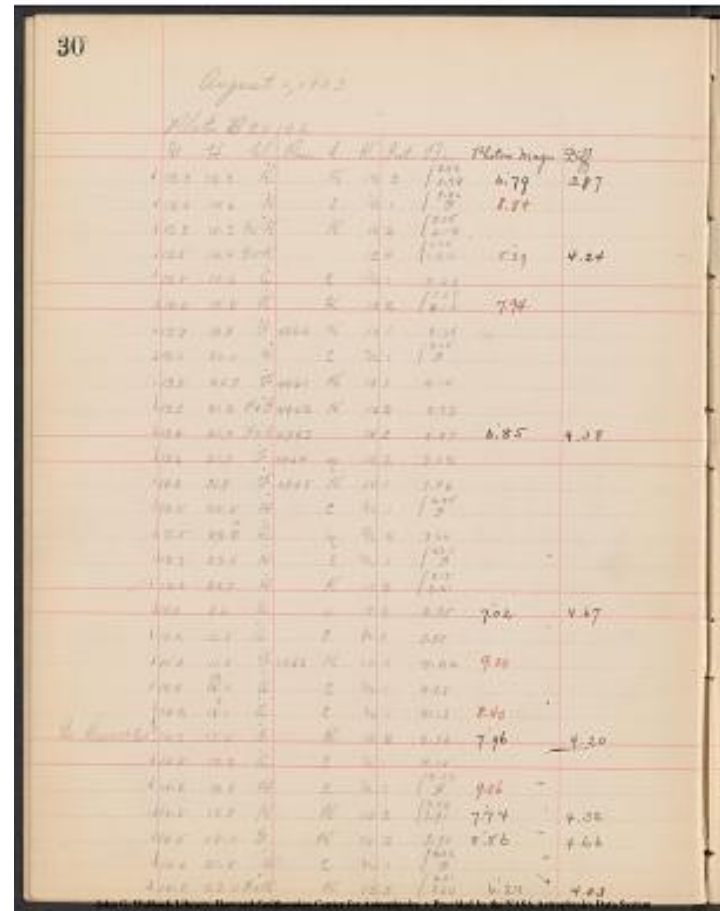
Plate B 20126

[[table]]

V. H. Cl. | Rem. | L. K. | Int. Br. | Photom. Magn. | Diff |

V. H. Cl.	Rem.	L. K.	Int. Br.	Photom. Magn.	Diff.
13.3 12.3 K		Kappa 12	3 {3.49 <sup>^</sup> [[2.92]]	6.79	3.87
13.8 14.6 H		Epsilon Nu	1 {Tau <sup>^</sup> [[4.30]]	8.84	
13.3 18.3 G5K		Kappa 10	2 {4.12 <sup>^</sup> [[3.75]]		
13.5 18.4 G5K		12	4 {1.80 <sup>^</sup> [[1.05]]	4.29	4.24
13.8 18.6 A		Epsilon Nu	1 4.20		
14.0 19.8 K		Kappa 10	2 {4.10 <sup>^</sup> [[3.59]]	7.94	
13.7 19.9 F		4960	Kappa 10	1 3.89	
13.0 20.0 H		Epsilon Nu	1 {F <sup>^</sup> [[4.05]]		
13.8 20.7 F		4961	Kappa 10	1 4.10	
13.3 21.2 F2G		4962	Kappa 10	2 3.32	
13.8 21.4 F2G		4963	10	2 2.47	6.85
13.6 21.7 F		4964	Nu 10	2 3.02	
14.0 21.9 F		4965	Kappa 10	1 3.96	
13.5 22.5 H		Epsilon Nu	1 {F <sup>^</sup> [[4.25]]		
13.5 22. [[ <del>5</del> ]]		[[ <del>5</del> ]]			
13.3 23.5 H		Epsilon Nu	1 {F <sup>^</sup> [[4.30]]		
13.4 24.7 H		Kappa 10	2 {3.61 <sup>^</sup> [[3.18]]		
14.9 8.6 A		Iota 3	3 2.35	7.02	4.67
15.0 11.0 F		4966	Kappa 10	1 4.26	9.00
14.4 [[ <del>15</del> ]]		[[ <del>15</del> ]]			
14.2 1 [[ <del>5</del> ]]		[[ <del>5</del> ]]			
14.2 15.0 G		Kappa 10	2 3.76	7.96	4.20
14.8 17.2 A		Epsilon Nu	1 4.14		
14.2 17.8 H		Epsilon Nu	1 {F <sup>^</sup> [[4.23]]	9.06	
14.8 17.7 K		Kappa 10	2 {3.42 <sup>^</sup> [[3.91]]	7.74	4.32
14.5 18.0 G		Kappa 10	2 3.90	8.56	4.66
14.6 21.8 H		Epsilon Nu	1 {F <sup>^</sup> [[4.22]]		
14.9 23.0 G5K		Kappa 12	3 {2.80 <sup>^</sup> [[2.21]]	6.24	4.03

[[/table]]



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1875 Approx       C.P.D. Design   R.A. 1875       Dec. 1875											
Magn.   R.A. 1900   Dec. 1900											
3 <sup>h</sup>   42 <sup>m</sup>   -79 <sup>°</sup>   30'   -79 109   3 <sup>h</sup>   42 <sup>m</sup>											
40 <sup>s</sup>   -79 <sup>°</sup>   30.0'   7.7   3 40.9   -79 25   54											
3   17   -79   51   -79 96   3   17   17.6   -79   51.0   9.2   3 16.5   -79 46											
2   36   -79   45   -79 68   2   35   49.0   -79   34.7   8.1											
2   34   -79   39   -79 66   2   34   21.8   -79   39.3   6.4   2 33.8   -79 3.3											
2   32   -79   45   -79 64   2   31   42.4   -79   44.6   8.6											
2   18   -79   46   -79 58   2   7   54.6   -79   46.0   8.4   2 17.4   -79 39											
2   18   -79   37   -79 57   21   7   36.1   -79   36.1   8.3											
2   18   -79   14   -79 59   2   18   0.6   -79   13.5   9.1											
2   9   -79   35   -79 53   2   9   2.1   -79   34.6   9.1											
2   5   -79   18   -79 52   2   4   39.1   -79   17.8   8.2											
2   3   -79   29   -79 51   2   1   49.6   -79   28.2   4.8   2 1.6   -79 21   54											
1   59   -79   22											
1   56   -79   28   -79 48   1   55   57.0   -79   27.6   9.0											
1   51   -79   9   -79 46   1   51   19.0   -79   8.7   9.0											
1   49   -79   6   -79 45   1   48   54.0   -79   6.2   8.2											
1   43   -78   53   -78 38   1   42   1.0   -78   52.3   8.8											
1   30   -78   43   -78 36   1   30   41.0   -78   42.6   8.5											
4   25   -79   50   -79 141   4   26   38.0   -79   48.5   6.8   4   25.0   -79											
3   59   -79   44   -79 121   3   59   10.0   -79   42.0   8.7											
4   0   -80   10   -80 102   4   0   28   -80   10.1   8.9   3   59.0   -80   6											
3   48   -79   58   -79 114   3   47   31.0   -79   57.7   8.7											
3   45   -79   52   -79 112   3   45   52.0   -79   52.1   8.6   3   44.6   -79											
2   59   -80   6   -80 70   3   0   37   -80   5.4   8.2											
3   59.7   -80 57   5   79 59   54											
2   46   -80   18   -80 57   2   46   46   25											
2   40   -80   0   -80 55   2   40   53   -80   0.9   8.8   2   40.2   -79 55   54											
2   40   -80   20   -80 54   2   40   37   -80   20.9   8.0   2   39.8   -80 15											
2   38   -80   10   -80 51   2   38   1   -80   9.1   8.3   2   37.3   -80 3   54											
1   55   -79   49   -79 47   1   55   18.0   -79   49.3   9.4											
1   42   -79   47   -79 44   1   41   18.0   -79   46.8   7.0   1   41.3   -79											

1875 Approx       C.P.D. Design   R.A. 1875       Dec. 1875											
Magn.   R.A. 1900   Dec. 1900											
3 <sup>h</sup>   42 <sup>m</sup>   -79 <sup>°</sup>   30'   -79 109   3 <sup>h</sup>   42 <sup>m</sup>											
40 <sup>s</sup>   -79 <sup>°</sup>   30.0'   7.7   3 40.9   -79 25   54											
3   17   -79   51   -79 96   3   17   17.6   -79   51.0   9.2   3 16.5   -79 46											
2   36   -79   45   -79 68   2   35   49.0   -79   34.7   8.1											
2   34   -79   39   -79 66   2   34   21.8   -79   39.3   6.4   2 33.8   -79 3.3											
2   32   -79   45   -79 64   2   31   42.4   -79   44.6   8.6											
2   18   -79   46   -79 58   2   7   54.6   -79   46.0   8.4   2 17.4   -79 39											
2   18   -79   37   -79 57   21   7   36.1   -79   36.1   8.3											
2   18   -79   14   -79 59   2   18   0.6   -79   13.5   9.1											
2   9   -79   35   -79 53   2   9   2.1   -79   34.6   9.1											
2   5   -79   18   -79 52   2   4   39.1   -79   17.8   8.2											
2   3   -79   29   -79 51   2   1   49.6   -79   28.2   4.8   2 1.6   -79 21   54											
1   59   -79   22											
1   56   -79   28   -79 48   1   55   57.0   -79   27.6   9.0											
1   51   -79   9   -79 46   1   51   19.0   -79   8.7   9.0											
1   49   -79   6   -79 45   1   48   54.0   -79   6.2   8.2											
1   43   -78   53   -78 38   1   42   1.0   -78   52.3   8.8											
1   30   -78   43   -78 36   1   30   41.0   -78   42.6   8.5											
4   25   -79   50   -79 141   4   26   38.0   -79   48.5   6.8   4   25.0   -79											
3   59   -79   44   -79 121   3   59   10.0   -79   42.0   8.7											
4   0   -80   10   -80 102   4   0   28   -80   10.1   8.9   3   59.0   -80   6											
3   48   -79   58   -79 114   3   47   31.0   -79   57.7   8.7											
3   45   -79   52   -79 112   3   45   52.0   -79   52.1   8.6   3   44.6   -79											
2   59   -80   6   -80 70   3   0   37   -80   5.4   8.2											
3   59.7   -80 57   5   79 59   54											
2   46   -80   18   -80 57   2   46   46   25											
2   40   -80   0   -80 55   2   40   53   -80   0.9   8.8   2   40.2   -79 55   54											
2   40   -80   20   -80 54   2   40   37   -80   20.9   8.0   2   39.8   -80 15											
2   38   -80   10   -80 51   2   38   1   -80   9.1   8.3   2   37.3   -80 3   54											
1   55   -79   49   -79 47   1   55   18.0   -79   49.3   9.4											
1   42   -79   47   -79 44   1   41   18.0   -79   46.8   7.0   1   41.3   -79											

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Plate B20126

[[/table]]

| V. | H. | Cl. | Rem. | L. | K | Int. | Br. | Photom. Magn. | Diff. |

15.0|24.0|H| |E|n|1|{4.28| | |  
 14.2|24.0|F|4967|K|10|1|4.20| | |  
 14.0|24.2|G5K| | |12|3|{1.80, 2.20|6.06|4.26|  
 15.5|7.0|H| |E|n|1|F, {4.08||8.04|  
 15.6|11.7|H| |E|n|1|{4.25  
 15.3|12.0|g| |K|10|2|3.70|7.87  
 15.5|13.2|H| |E|n|1|F, {4.23  
 15.9|13.6|a| |E|n|2|4.02  
 15.7|16.1|F|4968|K|10|1|4.18  
 15.2|17.2|H| |E|n|1|F, {4.20  
 15.7|21.9|H| |E|n|1|F, {4.35  
 15.8|22.3|g| |K|10|2|3.60|8.48|

| Ought this not to be 6.4|16.4|5.4|F|4969|K|10|1|3.56|7.92

16.7|8.0|H| |E|n|1|F, {4.25  
 16.2|8.9|F|4970|K|10|1|4.12  
 16.2|9.1|K| | |12|3|{1.36, 1.85|5.62|4.26  
 17.0|10.2|F|4971|K|10|2|3.50|7.95|4.45  
 16.8|10.9|F|4972|K|10|1|4.13  
 16.5|11.3|F|4973|K|10|1|4.10  
 16.2|12.0|F|4974|K|10|1|4.17  
 16.8|12.6|G5K| |K|10|3|{3.70, 3.90|7.84| |  
 16.4|13.3|K| |K|10|3|{3.60, 4.10|7.76  
 16.3|13.5|H| |E|n|1|F, {4.09  
 16.3|14.4|a| |O|n|2|3.66|8.37  
 16.6|19.2|a| |E|n|1|3.87  
 16.7|19.3|F|4975|K|10|1|4.03  
 16.8|20.4|a| |E|n|1|4.03  
 16.8|20.9|F|4976|K|10|1|4.02  
 ^[[9.20 p.m]] 16.9|21.4|a| |E|n|1|3.87|10.10 B.M.

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August 1, 1903

Plate B20126

V.	H.	Cl.	Rem.	L.	K	Int.	Br.	Photom.	Magn.	Diff.
15.0	24.0	H		E	n	1	{4.28			
14.2	24.0	F	4967	K	10	1	4.20			
14.0	24.2	G5K			12	3	{1.80, 2.20	6.06	4.26	
15.5	7.0	H		E	n	1	F, {4.08		8.04	
15.6	11.7	H		E	n	1	{4.25			
15.3	12.0	g		K	10	2	3.70	7.87		
15.5	13.2	H		E	n	1	F, {4.23			
15.9	13.6	a		E	n	2	4.02			
15.7	16.1	F	4968	K	10	1	4.18			
15.2	17.2	H		E	n	1	F, {4.20			
15.7	21.9	H		E	n	1	F, {4.35			
15.8	22.3	g		K	10	2	3.60	8.48		
Ought this not to be 6.4 16.4 5.4 F 4969 K 10 1 3.56 7.92										
16.7	8.0	H		E	n	1	F, {4.25			
16.2	8.9	F	4970	K	10	1	4.12			
16.2	9.1	K			12	3	{1.36, 1.85	5.62	4.26	
17.0	10.2	F	4971	K	10	2	3.50	7.95	4.45	
16.8	10.9	F	4972	K	10	1	4.13			
16.5	11.3	F	4973	K	10	1	4.10			
16.2	12.0	F	4974	K	10	1	4.17			
16.8	12.6	G5K		K	10	3	{3.70, 3.90	7.84		
16.4	13.3	K		K	10	3	{3.60, 4.10	7.76		
16.3	13.5	H		E	n	1	F, {4.09			
16.3	14.4	a		O	n	2	3.66	8.37		
16.6	19.2	a		E	n	1	3.87			
16.7	19.3	F	4975	K	10	1	4.03			
16.8	20.4	a		E	n	1	4.03			
16.8	20.9	F	4976	K	10	1	4.02			
^[[9.20 p.m]] 16.9 21.4 a   E n 1 3.87 10.10 B.M.										

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
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[[table]]  
 1875 Approx. | C.P.D. Design. | 1875 R.A. | 1875 Dec. | Magn. | R.A. 1900  
 Dec. 1900 |  
 ---|---|---|---|---|---|  
 1^[[h]] 30^[[m]] - 79[[degree]] 36'-79 39| 1^[[h]] 30^[[m]] 32.0[[^32.0]]-  
 79[[^degree]] 36.1' 9.2| | | |  
 1 34-79 14|-79 42| 1 34 16.0|-79 13.7| 8.6| | | |  
 1 33 - 79 8|-79 40| 1 32 49.0|-79 8.4| 7.1| 1 33.0|-79 1| 50|  
 4 44 - 79 42|-79 152| 4 45 5.0|-79 41.7| 8.2| ] 4 43.5 |-79 39| 54|  
 3 54 - 80 32|-80 98| 3 53 4.5|-80 30.8| 9.0| | | |  
 3 50 - 80 26| 80 94^| [-80 93]]| 3 49 32^| [[3 49 30]]|-80 24.5^| [-80 24.3]]|  
 9.2^| [[8.5]]| 3 48.0 |-80 20| 54|  
 3 35-80 36|-80 85| 3 35 30|-80 35.4| 9.2| | | |  
 3 30 - 80 52|-80 81| 3 30 27|-80 51.3| 8.4| | | |  
 3 0 - 80 50|-80 69| 2 59 52|-80 48.8| 8.3| | | |  
 2 47 - 80 32|-80 59| 2 47 1|-80 32.1| 8.6| | | |  
 1 49 - 80 18|-80 36| 1 49 27|-80 18.6| 9.2| | | |  
 1 45 - 80 22|-80 32| 1 44 48|-80 21.8| 8.2| 1 44.6 |-80 14| 54|  
 4 56 - 80 0|-80 132| 4 56 9|-80 0.6| 7.5| 4 54.4 |-79 59| 54 Correct if 6.4  
 intended|  
 4 40 - 80 32|-80 124| 4 40 52|-80 32.3| 8.5| | | |  
 4 27 - 80 24|-80 117| 4 28 9|-80 24.2| 8.5| | | |  
 4 26 - 80 30|-80 116| 4 26 32|-80 30.3| 6.5| 4 24.7 |-80 27| 50|  
 4 15 - 81 3|-81 104| 4 15 48|-81 2.8| 8.0| 4 13.9 |-80 59| 54|  
 4 6 - 81 0|-81 96| 4 6 55|-81 0.6| 8.9| | | |  
 4 1 - 80 56|-80 104| 4 1 30|-80 56.0| 8.5| | | |  
 3 51 - 80 53|-80 97| 3 51 28|-80 57.1| 8.9v| | | |  
 3 45 - 81 15|-81 89^| [-81 88]]| 3 45 45^| [[3 45 32]]| -81 15.4^| [-81 15.0]]|  
 9.0^| [[9.0]]| 3 43.8 |-81 10| 54|  
 3 36 - 81 9|-81 82| 3 36 8|-81 7.8| 8.1| 3 34.5 |-81 3| 54|  
 3 33 - 81 6|-81 82| 3 33 1|-81 5.8| 9.0| | | |  
 3 22 - 81 21|-81 78| 3 22 20|-81 20.4| 8.1| 3 20.8 |-81 15| 54|  
 2 19 - 81 6|-81 44| 2 18 41|-81 6.7| 8.4| | | |  
 2 17 - 81 10|-81 43| 2 17 5|-81 9.7| 8.6| | | |  
 2 3 - 81 7|-81 39| 2 3 13|-81 7.7| 8.7| | | |  
 1 56 - 80 59|-80 40| 1 56 58|-80 58.4| 9.2| | | |  
 1 51 - 80 59|-80 37| [[symbol-check]] 1 51 23|-80 59.4| 8.4| | | |  
 [[/table]]

38

1875 R.A. 1875 Dec. Magn. R.A. 1900 Dec. 1900

1 34-79 14|-79 42| 1 34 16.0|-79 13.7| 8.6| | | |

1 33 - 79 8|-79 40| 1 32 49.0|-79 8.4| 7.1| 1 33.0|-79 1| 50|

4 44 - 79 42|-79 152| 4 45 5.0|-79 41.7| 8.2| ] 4 43.5 |-79 39| 54|

3 54 - 80 32|-80 98| 3 53 4.5|-80 30.8| 9.0| | | |

3 50 - 80 26| 80 94^| [-80 93]]| 3 49 32^| [[3 49 30]]|-80 24.5^| [-80 24.3]]|

9.2^| [[8.5]]| 3 48.0 |-80 20| 54|

3 35-80 36|-80 85| 3 35 30|-80 35.4| 9.2| | | |

3 30 - 80 52|-80 81| 3 30 27|-80 51.3| 8.4| | | |

3 0 - 80 50|-80 69| 2 59 52|-80 48.8| 8.3| | | |

2 47 - 80 32|-80 59| 2 47 1|-80 32.1| 8.6| | | |

1 49 - 80 18|-80 36| 1 49 27|-80 18.6| 9.2| | | |

1 45 - 80 22|-80 32| 1 44 48|-80 21.8| 8.2| 1 44.6 |-80 14| 54|

4 56 - 80 0|-80 132| 4 56 9|-80 0.6| 7.5| 4 54.4 |-79 59| 54 Correct if 6.4  
intended|

4 40 - 80 32|-80 124| 4 40 52|-80 32.3| 8.5| | | |

4 27 - 80 24|-80 117| 4 28 9|-80 24.2| 8.5| | | |

4 26 - 80 30|-80 116| 4 26 32|-80 30.3| 6.5| 4 24.7 |-80 27| 50|

4 15 - 81 3|-81 104| 4 15 48|-81 2.8| 8.0| 4 13.9 |-80 59| 54|

4 6 - 81 0|-81 96| 4 6 55|-81 0.6| 8.9| | | |

4 1 - 80 56|-80 104| 4 1 30|-80 56.0| 8.5| | | |

3 51 - 80 53|-80 97| 3 51 28|-80 57.1| 8.9v| | | |

3 45 - 81 15|-81 89^| [-81 88]]| 3 45 45^| [[3 45 32]]| -81 15.4^| [-81 15.0]]|

9.0^| [[9.0]]| 3 43.8 |-81 10| 54|

3 36 - 81 9|-81 82| 3 36 8|-81 7.8| 8.1| 3 34.5 |-81 3| 54|

3 33 - 81 6|-81 82| 3 33 1|-81 5.8| 9.0| | | |

3 22 - 81 21|-81 78| 3 22 20|-81 20.4| 8.1| 3 20.8 |-81 15| 54|

2 19 - 81 6|-81 44| 2 18 41|-81 6.7| 8.4| | | |

2 17 - 81 10|-81 43| 2 17 5|-81 9.7| 8.6| | | |

2 3 - 81 7|-81 39| 2 3 13|-81 7.7| 8.7| | | |

1 56 - 80 59|-80 40| 1 56 58|-80 58.4| 9.2| | | |

1 51 - 80 59|-80 37| [[symbol-check]] 1 51 23|-80 59.4| 8.4| | | |

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
 (South Draper Catalog) #82  
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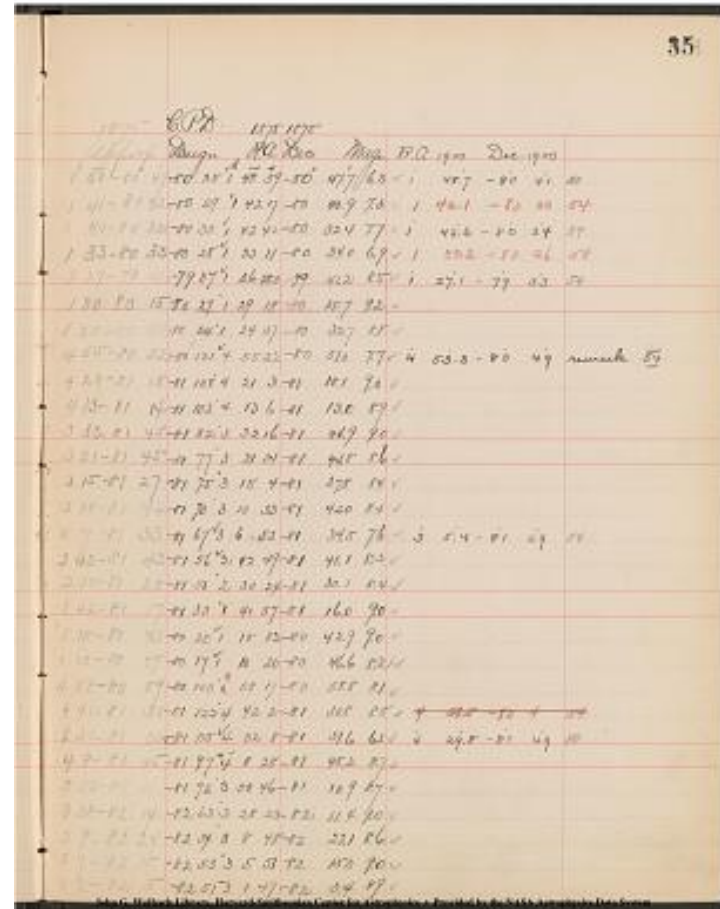


August 3, 1903  
Plate B 20126  
830 P.M.

V.	H.	Cl.	Rem.	L.	K	Int.	Br.	Photom.	Magn.	Diff.
16.6	21.7	a	4977	K	n	3	1.78	6.06	4.28	
16.5	22.2	a		O	n	2	2.78	7.71		
16.3	22.3	a		e	n	2	3.92	7.88	3.96	
16.6	23.0	a		O	n	2	2.15	7.26		
15.2	24.2	gsk		k	10	2	3.65	{3.22}	8.09	4.87
16.2	23.6	H		e	n	1	F	{4.35}		
16.9	23.7	G		K	10	1	3.68			
17.9	7.2	F	4978	K	10	2	3.63	7.91	4.28	
17.6	10.0	H		e	n	1	F	{4.20}		
17.3	10.5	H		e	n	1	F	{4.25}		
17.7	13.7	H		e	n	1	F	{4.38}		
17.6	14.5	a		e	n	1	4.30			
17.0	14.9	a		e	n	1	4.35			
17.5	15.3	a		e	n	1	4.30			
17.1	15.5	F	4979	n			<del>10</del>	<del>3.10</del>	<del>7.65</del>	<del>4.55</del>
17.5	17.3	a		n	n	2	4.20			
17.3	18.2	a		e	n	1	4.07			
17.7	21.9	H		e	n	1	F	{4.26}		
17.5	24.2	H		e	n	1	F	{3.90}		
17.8	24.6	F	4980	K	10	2	3.24			
18.3	7.1	F	4981	K	10	1	3.78			
18.7	8.7	H		e	n	1	{4.02}	<del>9.64</del>	<del>4.55</del>	
18.9	9.6	asf	4983		10	3	1.40	5.79	4.39	
18.3	11.2	a		e	n	1	4.20			
18.7	12.6	F	4983	K	10	1	3.81			
18.5	14.1	a		e	n	1	4.33			
18.8	15.4	a		e	n	1	4.20			
18.6	15.6	a		e	n	1	4.25			
18.2	15.9	H		e	n	1	F	{4.35}		

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
(South Draper Catalog) #82  
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[[table]]  
 1875 Approx. | C.P.D. Design. 1875 R.A. | 1875 Dec. Mag. | R.A. 1900  
 Dev. 1900 | | | |  
 1^[[h]] 50^[[m]] -80[[symbol - degree symbol]] 47'-80 35 1^[[h]] 48^[[m]]  
 59^[[s]] -80 47.7 6.3 | 1 48.7 -80 41 | 50 |  
 1 41 -80 43 -80 29 1 42 17 -80 40.9 7.3 | 1 42.1 -80 33 | 54  
 1 43 -80 32 -80 30 1 42 43 -80 32.4 7.7 | 1 42.6 -80 24 | 54  
 1 33 -80 33 -80 28 1 33 11 -80 34.0 6.9 | 1 33.2 -80 26 | 54  
 1 27 -79 42 -79 37 1 26 58.0 -79 41.2 8.5 | 1 27.1 -79 33 | 54  
 1 30 -80 15 -80 27 1 29 18 -80 15.7 9.2 | | |  
 1 25 -80 32 -80 24 1 24 37 -80 32.7 8.8 | | |  
 4 55 -80 52 -80 131 4 55 2.2 -80 51.0 7.7 | 4 53.3 -80 49 | remark 54  
 4 20 -81 18 -81 108 4 21 3 -81 18.1 9.0 | | |  
 4 13 -81 14 -81 102 4 13 6 -81 13.0 8.9 | | |  
 3 33 -81 45 -81 82 3 32 16 -81 44.9 9.0 | | |  
 3 21 -81 45 -81 77 3 21 34 -81 44.8 8.6 | | |  
 3 15 -81 27 -81 75 3 15 4 -81 27.8 8.4 | | |  
 3 10 -81 42 -81 70 3 10 33 -81 42.0 8.4 | | |  
 3 7 -81 33 -81 67 3 6 52 -81 34.5 7.6 | 3 5.4 -81 29 | 54  
 2 42 -81 43 -81 56 2 42 49 -81 41.1 8.3 | | |  
 2 30 -81 30 -81 50 2 30 24 -81 30.1 8.4 | | |  
 1 42 -81 17 -81 33 1 41 57 -81 16.0 9.0 | | |  
 1 15 -80 43 -80 20 1 15 22 -80 42.9 9.0 | | |  
 1 10 -80 47 -80 17 1 10 20 -80 46.6 8.2 | | |  
 4 58 -80 59 -80 133 [[/strikethrough]] 1 [[/strikethrough]] 4 58 17 -80 58.8  
 8.1 | | |  
 4 41 -81 30 -81 122 4 42 2 -81 30.8 8.8 [[/strikethrough]] 4 38.5 -80 4 | 54  
 [[/strikethrough]]  
 4 31 -81 52 -81 115 4 32 8 -81 51.6 6.3 | 4 29.8 -81 49 | 50  
 4 8 -81 45 -81 97 4 8 28 -81 45.2 8.7 | | |  
 3 50 -81 11 -81 72 3 50 46 -81 10.9 8.7 | | |  
 3 28 -82 14 -82 63 3 28 23 -82 11.4 9.0 | | |  
 3 9 -82 24 -82 54 3 8 48 -82 23.1 8.6 | | |  
 3 7 -82 15 -82 53 3 5 51 -82 15.0 9.0 | | |  
 3 2 -82 5 -82 51 3 1 47 -82 3.4 8.9 | | |  
 [[/table]]



Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
 (South Draper Catalog) #82  
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Aug. 3, 1903

Plate ~~201~~ B 10 12 6

~~table~~

V. H Cl. | Rem. I. K | ? Br. Photom. Magn. | Diff.

---|---|---

18.1 16. ~~2~~ A | Epsilon Eta | 1 4.25 |||  
 18.2 17.1 H | Epsilon Eta | 1 {Tau^[[4.20]]} |||  
 18.2 17.4 F | 4984 Kappa 10 | 1 4.10 |||  
 18.5 18.3. H | Epsilon Eta | 1 {Tau^[[4.12]]} |||  
 18.8 20.2 A8F | 4985 Theta 10 | 3 2.38 7.02 | 4.64  
 18.7 20.7 K | Kappa 10 | 2 {3.60^[[3.24]]} 7.52 | 4.28  
 18.6 22.8 H | Epsilon Eta | 1 {Tau^[[4.05]]} |||  
 ^[[Is this not 8.1]] 19.4 9.1 H | Epsilon Eta | 1 {4.40^[[4.10]]} |||  
 19.1 9.4 A | Epsilon Eta | 2 3.85 | |||  
 19.6 13.6 H | Epsilon Eta | 1 {Tau^[[4.10]]} |||  
 20.0 14.0 F | 4986 Kappa 10 | 2 3.50 8.0 | 4.50  
 ^[[Is this not 19.5]] 18.5 14.1 F | 4987 Kappa 10 | 2 3.55 8.07 | 4.59  
 19.6 17.2 G | Kappa 10 | 2 2.90 7.49 | 4.59  
 19.1 17.6 H | Epsilon Eta | 1 {Tau^[[4.18]]} |||  
 19.3 17.7 A | Epsilon Eta | 1 4.00 |||  
 19.1 22.3 H | Epsilon Eta | 1 {Tau^[[4.08]]} |||  
 20.4 6.2 K | Kappa 10 | 2 {3.33^[[2.90]]} 6.48 | |||  
 20.2 19.1 A | Theta Eta | 2 2.83 7.89 | |||  
 ^[[Read V 20.6 ?]] 19.6 19.3 A | Epsilon Eta | 2 3.02 7.89 | |||  
 ^[[Read V 20.3 ?]] 20.6 19.6 G | K 10 | 1 3.70 8.42 | |||  
 20.8 20.8 G | K 10 | 2 ~~4~~ 2.45 7.19 | |||  
 20.1 22.8 H | Kappa 10 | 1 {3.90^[[3.30]]} 8.09 | |||  
 20.6 23.4 K | Kappa 10 | 2 {3.80^[[3.20]]} 7.79 | 4.59  
 21.6 7.9 K | Kappa 10 | 3 {2.35^[[1.70]]} 5.85 | 4.15  
 21.3 8.8 H | Epsilon Eta | 1 {4.45^[[3.90]]} |||  
 21.5 10.3 A | Lambda 3 | 3 2.2Chi^[[2]] 6.76 | 4.54  
 21.6 10.7 A | Epsilon Eta | 1 3.71 | |||

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Aug. 3, 1903

V. H Cl. | Rem. I. K | ? Br. Photom. Magn. | Diff.

V. H Cl.	Rem.	I. K	? Br.	Photom.	Magn.	Diff.
18.1	16.					
18.2	17.1	H				
18.2	17.4	F				
18.5	18.3.	H				
18.8	20.2	A8F				
18.7	20.7	K				
18.6	22.8	H				
19.4	9.1	H				
19.1	9.4	A				
19.6	13.6	H				
20.0	14.0	F				
18.5	14.1	F				
19.6	17.2	G				
19.1	17.6	H				
19.3	17.7	A				
19.1	22.3	H				
20.4	6.2	K				
20.2	19.1	A				
19.6	19.3	A				
20.6	19.6	G				
20.8	20.8	G				
20.1	22.8	H				
20.6	23.4	K				
21.6	7.9	K				
21.3	8.8	H				
21.5	10.3	A				
21.6	10.7	A				

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates (South Draper Catalog) #82  
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[[table]]

1875 Approx. | CPD Design R.A. 1875 | Dec. 1875 | Magn. | R.A 1900 Dec. 1900 |

2 50 - 82 1	-82 48 2 50 59	-82 0.1   8.7	
2 44 - 82 1	-82 47 2 43 58	-82 0.1   8.6	
2 40 - 82 3	-82 45 2 40 0	-82 2.1   8.8	
2 27 - 82 8	-82 42 2 27 9	-82 6.8   9.0	
2 0 - 82 6	-82 34 1 59 41	-82 6.3   7.0	i 59.0 - 81 59   54
1 52 - 81 59	-81 36 1 51 59	-81 58.5   8.3	i 51.4 - 81 51   54
1 25 - 81 30	-81 26 1 25 32	-81 31.1   9.2	
4 55 - 81 43	-81 125 4 54 32	-81 42.9   8.6	
4 35 - 81 51	-81 116 4 35 52	-81 50.7   8.2	
3 37 - 82 42	-82 68 3 37 53	-82 43.3   8.8	
3 31 - 82 55	-82 64 3 30 20	-82 54.7   8.0	3 29.1 - 82 50   54
3 30 - 82 42	-82 64 3 30 20	-82 41.9   7.8	3 28.2 - 82 37   54 Correct if 19.5 intended
2 42 - 82 45	-82 46 2 42 5	-82 46.1   7.5	2 40.6 - 82 40   54
2 36 - 82 29	-82 44 2 35 48	-82 28.0   9.2	
2 33 - 82 35	-82 43 2 33 26	-82 34.3   8.2	
1 30 - 81 52	-81 28 1 30 7	-81 51.0   8.9	
5 23 - 81 41	-81 134 5 24 32	-81 40.2   7.8	5 22.1 - 81 39   50
2 30 - 83 3	-83 45 2 29 24	-83 2.1   8.2	
2 22 - 83 5	-83 42 2 21 58	-83 5.1   8.2	
2 9 - 82 54	-82 39 2 9 38	-82 53.5   7.6	2 8.5 - 82 47   54
	-83 35 2 5 30	-83 6.4   7.5	2 4.4 - 82 59   54 ?
	-82 37 2 2 47	-82 53.8   8.5	2 1.8 - 82   54 ?
1 39 - 82 54	-82 28 1 39 55	-82 54.8   7.8	1 39.3 - 82 47   54 Remark
1 15 - 82 12	-82 22 1 16 42	-82 12.0   8.2	1 16.7 - 82.4   54
1 6 - 82 18	-82 16 1 6 1	-82 19.0   8.4	1 6.1 - 82 11   54
5 13 - 82 40	-82 106 5 13 10	-82 38.1   6.7	5 10.2 - 82 36   50
4 57 - 82 45	-82 99 4 57 23	-82 43.0   8.6	
4 36 - 83 11	-83 91 4 37 32	-83 10.0   6.6	4 34.5 - 83 7   50
4 30 - 88 17	-83 90 4 31 30	-83 16.8   8.0	

[[/table]]

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
(South Draper Catalog) #82  
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Aug. 3, 1903  
Plate B 20126

[[table]]									
V.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photon.	Magn.
21.7	11.2	A		E	N	1	3.98		
21.3	12.2	H		E	N	1	{F^[[3.90]]}		
21.4	14.0	H		E	N	1	{F^[[4.10]]}		
22.0	14.8	A		E	N	2	{2.90}	7.59	
21.6	15.3	H		E	N	1	{4.15^[[3.78]]}		
21.1	16.2	A		E	N	1	4.03		
21.2	17.9	H		K	10	2	{3.84^[[3.53]]}	7.85	4.32
21.1	18.9	H		E	N	1	{F^[[3.85]]}		
21.4	20.0	F	4988	K	10	1	{3.4 <del>[[3.85]]</del> }	9 <del>[[3.85]]</del>	1.8.25
22.9	1	<del>[[3.85]]</del>		2	<del>[[3.85]]</del>		0.0	K	
K	10	2	{3.80^[[3.18]]}	7.32	4.14				
22.6	19.7	G		K	10	2	2.95		
22.5	20.1	G5K		K	10	2	{3.60^[[3.10]]}	7.36	4.26
22.0	20.3	K		K	10	4	{1.80^[[1.21]]}	5.88	4.67
23.8	11.5	K		K	10	2	{3.50^[[2.90]]}	7.13	4.23
23.3	13.1	J	4989	K	10	2	2.97	7.80	4.83
23.3	14.8	H		3	N	1	{F^[[3.80]]}		
24.0	21.5	K		K	10	2	{3.85^[[3.20]]}	7.40	4.20
23.5	21.9	G5K		K	10	1	{4.00^[[3.70]]}	8.19	
^[[9.00 P.M. Is this not 22.9]] 23.9									
22.0 <del>[[3.85]]</del>									
H <del>[[3.85]]</del> A									
[[table]]									
10.05									

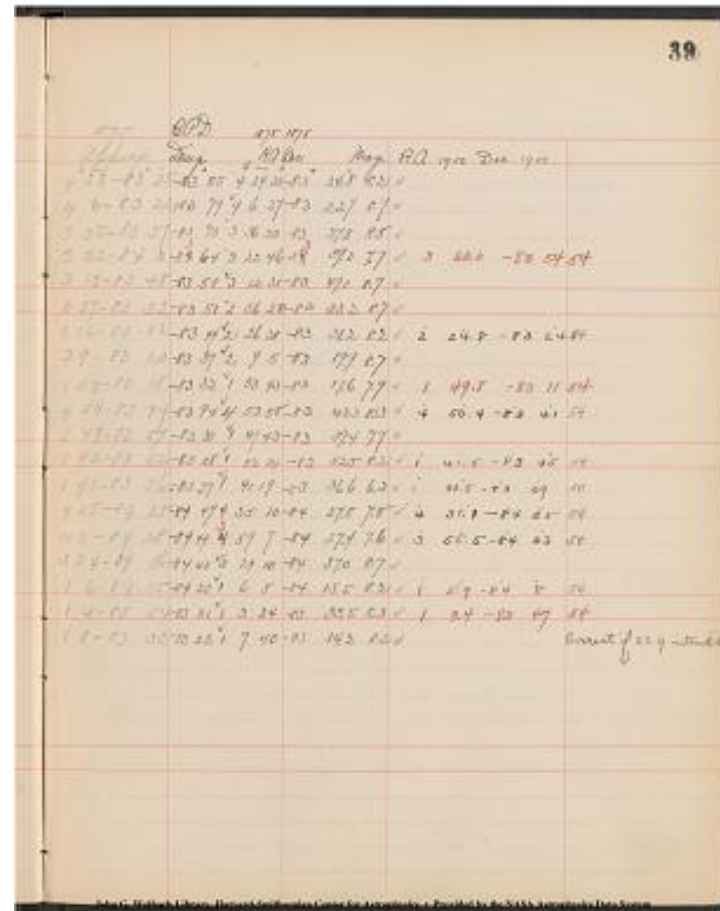
Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
(South Draper Catalog) #82  
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[[table]]

1875 Approx|CPD Design 1875 R.A | 1875 Dec. Magn.|R.A. 1900 Dec.  
1900.4<sup>h</sup>[[h]] 25<sup>m</sup>[[m]] -83[[symbol - degree symbol]] 25 | 83[[symbol - degree symbol]] 85 4<sup>h</sup>[[h]] 24<sup>m</sup>[[m]] 30<sup>s</sup>[[s]] | -83[[symbol - degree symbol]] 24.8' 8.2

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



Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
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Aug. 4 1903.

8.15 P.M. Plate B. 20 151

[[table]]

V. H. Cl. | Rem. L. K. | Int. Br. | Photon. Magn. | Diff. |

5.5	5.4	G5K	12	4	1.80	2.30	5.14	3.34
5.6	10.3	A	E	N	1	4.31	8.33	4.02
4.9	15.3	K	K	10	3	3.85	4.10	5.28
5.3	24.4	K	K	12	4	0.38	1.70	3.17
6.9	9.3	A	E	N	1	4.39		
6.4	11.4	G	K	10	2	4.10		
6.9	11.9	A	E	N	1	4.33		
6.2	23.9	F	4990	K	10	1	3.88	7.44
7.7	10.7	K	K	12	3	1.81	2.90	5.06
7.7	16.4	A	E	N	1	4.25		
7.4	20.0	H	E	N	1	4.48	F	
8.1	14.2	F	4991	K	10	1	4.10	
8.4	22.8	H	E	N	1	4.40	F	
^[[Is this not 6.6?]]	10.0	5.6	A	O	N	2	2.90	6.89
9.3	13.2	H	E	N	1	4.26		
9.9	13.7	G	K	10	2	3.84		
9.2	21.7	F	4992	K	10	1	4.05	
10.0	22.7	A	N	N	2	3.84		
10.1	6.1	A	E	N	1	4.25		
10.3	16.7	K	K	12	3	2.73	3.13	5.88
11.0	16.0	A	E	N	1	4.34		
10.6	18.1	F	4993	K	10	2	3.50	
11.2	14.3	H	E	N	1	4.35	F	
11.3	14.3	K	K	10	2	3.23	4.08	6.19
11.2	14.5	H	E	N	1	4.37	F	
11.2	15.0	A	E	N	1	4.40		
11.6	15.0	A	N	3	2	3.50		
11.9	17.0	A	E	N	1	4.40		
11.5	18.6	H	E	N	1	4.45	F	

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8.15 P.M. Plate B. 20 151

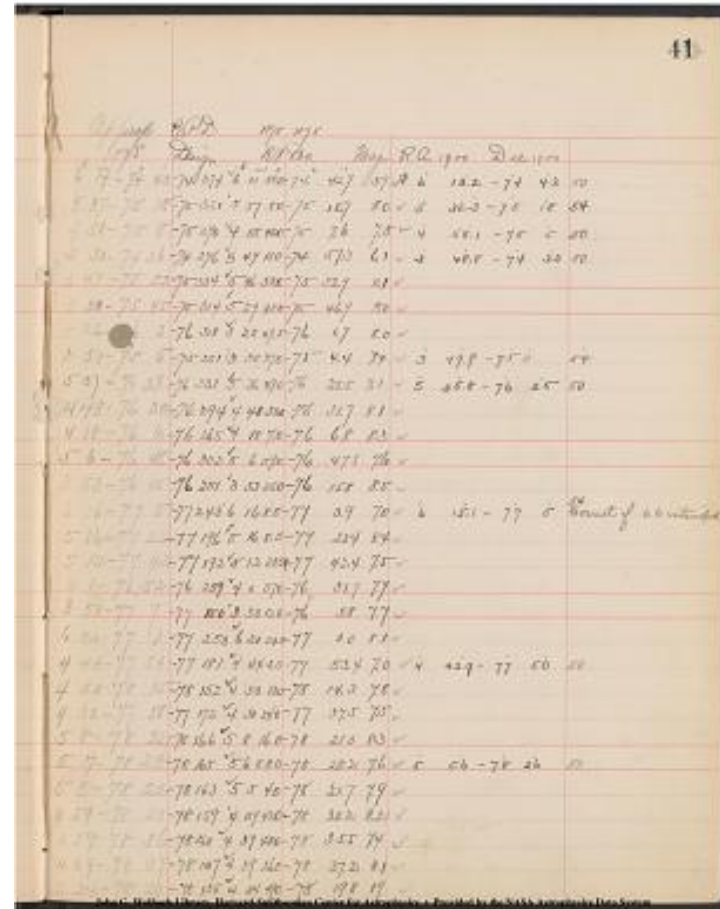
V.	H.	Cl.	Rem.	L. K.	Int. Br.	Photon. Magn.	Diff.
5.5	5.4	G5K	12	4	1.80	2.30	5.14
5.6	10.3	A	E	N	1	4.31	8.33
4.9	15.3	K	K	10	3	3.85	4.10
5.3	24.4	K	K	12	4	0.38	1.70
6.9	9.3	A	E	N	1	4.39	
6.4	11.4	G	K	10	2	4.10	
6.9	11.9	A	E	N	1	4.33	
6.2	23.9	F	4990	K	10	1	3.88
7.7	10.7	K	K	12	3	1.81	2.90
7.7	16.4	A	E	N	1	4.25	
7.4	20.0	H	E	N	1	4.48	F
8.1	14.2	F	4991	K	10	1	4.10
8.4	22.8	H	E	N	1	4.40	F
^[[Is this not 6.6?]]	10.0	5.6	A	O	N	2	2.90
9.3	13.2	H	E	N	1	4.26	
9.9	13.7	G	K	10	2	3.84	
9.2	21.7	F	4992	K	10	1	4.05
10.0	22.7	A	N	N	2	3.84	
10.1	6.1	A	E	N	1	4.25	
10.3	16.7	K	K	12	3	2.73	3.13
11.0	16.0	A	E	N	1	4.34	
10.6	18.1	F	4993	K	10	2	3.50
11.2	14.3	H	E	N	1	4.35	F
11.3	14.3	K	K	10	2	3.23	4.08
11.2	14.5	H	E	N	1	4.37	F
11.2	15.0	A	E	N	1	4.40	
11.6	15.0	A	N	3	2	3.50	
11.9	17.0	A	E	N	1	4.40	
11.5	18.6	H	E	N	1	4.45	F

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
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[[table]]

Approx. 1815 | C.P.D. Design 1875 R.A. | 1875 Dec. Magn. | R.A.  
1900 Dec. 1900 | |

6 14 -74 374 6 13 58.0	-74 42.7 5.9	6 13.2 -74 43   50
5 37 -75 321 5 37 8.0	-75 12.7 8.0	5 36.3 -75 18   54
4 58 -75 290 4 58 48.0	-75 7.6 7.5	4 58.1 -75 5   50
3 50 -74 276 3 49 11.0	-74 37.3 6.1	3 48.8 -74 33   50
5 47 -75 334 5 46 53.0	-75 52.9 8.1	
5 30 -75 314 5 29 48.0	-75 46.9 8.0	
5 26 -76 318 5 25 49.5	-76 1.7 8.0	
3 50 -75 251 3 50 27.0	-75 4.4 7.4	3 49.9 -75 0   54
5 37 -76 333 5 36 49.0	-76 25.5 7.1	5 35.8 -76 25   50
4 48 -76 294 4 48 33.0	-76 31.7 8.1	
4 18 -76 265 4 18 7.0	-76 6.8 8.3	
5 6 -76 303 5 6 59.0	-76 47.5 7.6	
3 53 -76 251 3 53 25.0	-76 15.8 8.5	
6 16 -77 243 6 16 8.8	-77 3.9 7.0	6 15.1 -77 5   54 Correct if 6.6 intended
5 16 -77 196 5 16 8.5	-77 21.4 8.4	
5 12 -77 192 5 12 28.5	-77 42.4 7.5	
4 1 -76 259 4 0 57.0	-76 51.7 7.9	
3 50 -77 150 3 50 12.0	-77 5.8 7.7	
6 20 -77 250 6 20 50.5	-77 0.0 8.1	
4 44 -77 181 4 44 3.5	-77 53.4 7.0	4 42.9 -77 50   50
4 50 -78 152 4 50 13.0	-78 14.3 7.8	
4 30 -77 172 4 30 24.0	-77 57.5 7.5	
5 8 -78 166 5 8 16.0	-78 21.0 8.3	
5 7 -78 165 5 6 58.0	-78 28.2 7.6	5 5.6 -78 26   50
5 5 -78 163 5 5 4.0	-78 21.7 7.9	
4 59 -78 159 4 59 43.0	-78 20.2 8.2	
4 59 -78 160 4 59 48.0	-78 35.5 7.4	
4 39 -78 147 4 39 26.0	-78 37.2 8.1	
4 24 -78 135 4 24 49.0	-78 19.8 8.9	



Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
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Plate B 20 151

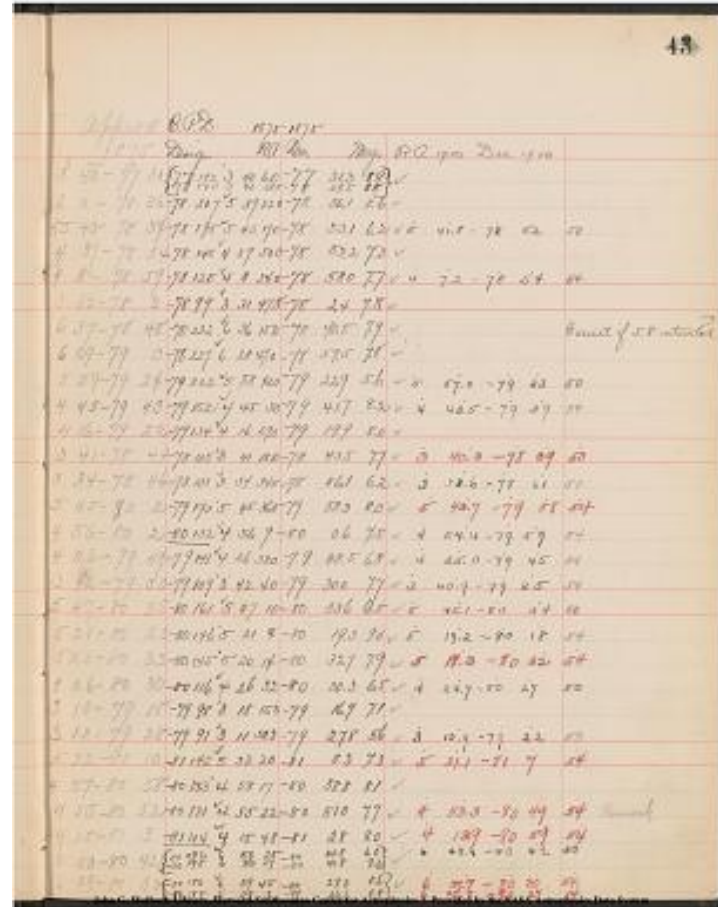
[[table]]

V. H. Cl. | Rem. L. K. | Int. Br. Photon. Magn. | Diff. |

11.1	23.5	H	E	N	1	{	4.35	F			
12.4	9.1	H	E	N	1	{	4.27	F			
12.5	10.8	A	R	N	3	{	1.97	6.14		4.17	
12.3	17.1	A	N	5	2	{	3.59				
12.9	19.9	K	K	10	3	{	2.95	3.80	6.70		3.75
12.4	24.0	H	E	N	1	{	4.04	4.45			
14.0	4.8	A	E	N	2	{	3.60				
14.0	6.7	H	E	N	1	{	4.15	F			
13.8	9.6	A	M	N	4	{	0.73	5.56		4.73	
13.9	16.3	H	E	N	1	{	4.33	F	8.04		3.71
13.5	19.0	A	E	N	1	{	4.20				
13.2	22.5	G5K	K	10	2	{	3.00	3.62	6.08		
13.5	23.1	K	K	15	3	{	2.02	2.62	5.64		3.62
14.7	11.0	A	E	N	1	{	4.10	8.48			
14.4	15.3	A8F	4994	K	10	2	{	3.60	4.32		
14.2	17.9	A	N	4	3	{	2.61	7.02		4.41	
14.6	22.0	G5K	K	10	2	{	3.14	3.81	6.79		3.65
15.8	11.1	F8G	12	3	{	1.46	5.65		4.19		
15.1	13.3	H	E	N	1	{	4.28	F	7.89		3.61
15.5	13.3	F	4995	K	10	2	{	3.60	7.64		
15.5	17.7	G	10	3	{	1.58	5.62		4.04		
15.1	24.1	F	4996	K	10	2	{	3.55			
15.6	24.5	F	4997	10	4	{	1.40	5.70		4.30	
16.7	12.4	F8G	N	3	2	{	3.00	7.15			
16.4	15.1	G	K	10	1	{	4.02				
16.1	15.3	F	4998	K	10	1	{	8.98	7.91		
16.8	18.4	G	K	10	1	{	3.94	7.95			
17.7	6.3	G5F	4999	O	10	3	{	1.60	5.64		4.04
17.1	6.9	A	E	N	1	{	4.17	8.72	8.96		

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
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[[table]]  
 | Approx. 1875 | C.P.D. Design. | 1875 R.A. | 1875 Dec. | Magn. | R.A.  
 1900 | Dec. 1900 | |  
 |-----|-----|-----|-----|-----|-----|  
 3[[^h]] 40[[^m]]-77[[degree]] 30'-77 143^[[^-77 142]]|30 40 29.5^[[3 40  
 6.0]]-77 29.5^[[^-77 31.3]]|8.8^[[8.9]] | | |  
 6 0 -78 36|-78 207|59 32.0|-78 36.1|8.6| | |  
 55 43 -78 54|-78 195|5 43 17.0|-78 53.1|6.2|5 41.8|-78 52|50|  
 4 37 -78 54|-78 145|4 37 50.0|-78 53.2|7.3| | |  
 4 8 -78 59|-78 125|4 8 24.0|-78 58.0|7.7|4 7.2|-78 54| 54|  
 3 32 -78 3|-78 99|3 31 47.8|-78 2.4|7.8| | |  
 6 37-78 48|-78 232|6 36 15.0|-78 48.5|7.9| | |  
 6 29 -79 0|-78 227|6 28 47.0|-78 59.4| 7.8| | |  
 5 59 -79 24|-79 202|5 58 42.0|-79 22.9|5.6|5 57.0|-79 23|50|  
 4 45 -79 43|-79 152|4 45 5.0|-79 41.7| 8.2|4 42.5|-79 39|54|  
 4 16 -79 22|-79 134|4 16 29.0|-79 19.9|8.0| | |  
 3 41 -78 44|-78 105|3 41 18.0|-78 43.5| 7.7|3 40.3|-78 39 |50|  
 3 34 -78 46|-78 101|3 34 34.0|-78 46.1| 6.2|3 33.6|-78 41|50|  
 5 45 -80 2|79 193|5 45 36.0|-79 58.3| 8.0|5 43.7|-79 58| 54|  
 4 56-80 2|[[underlined]]-80 132|[[underlined]]| 4 56 9|-80 0.6| 7.5|4  
 54.4|-79 59| 54|  
 4 26-79 49|-79 141|4 26 38.0|-79 48.5| 6.8|4 25.0|-79 45|54|  
 3 42 -79 30|-79 109|3 42 4.0|-79 30.0| 7.7|3 40.9|-79 25| 54|  
 5 47 -80 35|-80 161|5 47 10|-80 33.6| 6.5|5 45.1|-80 34|50|  
 5 21 -80 20|-80 146|-80 146| 5 21 4|-80 19.3| 9.0|5 19.2|-80 18| 54|  
 5 20 -80 33|-80 145| 5 20 14|-80 32.7| 7.9|5 18.3|-80 32|54|  
 4 26 -80 30|-80 116| 4 26 32|-80 30.3| 6.5| 4 24.7|-80 27| 50|  
 3 18 -79 18|-79 98|3 18 15.3|-79 16.9| 7.1| | |  
 3 12 -79 28|-79 91|3 11 50.3|-79 27.8| 5.6| 3 10.9|-7.9 22|50|  
 5 32-81 10|-81 142|5 33 20|-81 8.3| 7.3| 5 31.1|-81 7| 54|  
 4 57 -80 58|-80 133|4 58 17|-80 58.8| 8.1| | |  
 4 55-80 52|-80 131| 4 55 22|-80 51.0|7.7|4 53.3 -80 49|54 Remark|  
 4 15 -81 3|[[underlined]]-81 104|[[underlined]]|4 15 48|-81 2.8| 8.0|4  
 13.9|-80 59| 54|  
 6 50 -80 42|-80 195^[[^-80 196]]|60 50 17^[[6 50 25]]|-80 41.8^[[^-80  
 40.8]]|9.2^[[6.0]]|6 48.4|-80 42| 50|  
 6 39 -80 30|-80 185^[[^-80 186]]|6 39 3^[[6 39 45]]|-80 26.1^[[^-80  
 29.3]]|8.8^[[8.6]]|6 37.7|-80 30|54|  
 [[/table]]



Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
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Plate B20151

[[table]]

V. H. CL. | Rem. L. K | Int. Br. Photom Magn. | Diff. |

-----

17.4 8.9 A	E 5	2 3.10 7.30	4.20
18.0 11.5 F	5000 K 10	2 3.52 7.24	3.72
18.0 12.1 A	E N	1 4.20	
17.7 13.2 K	K 10	2 {3.00 3.72 6.48	3.48
17.7 15.4 H	E N	1 {4.38 F	
17.4 16.3 H	E N	1 {4.30 F	
16.2 20.8 G	K 10	1 4.32 7.87	
17.9 20.5 H	E N	1 {4.28 F 7.84	
17.9 21.3 H	E N	1 {4.30 F 7.76	3.46
18.5 6.0 H	E N	1 {4.20 F 7.35	3.15
18.5 8.8 A	E N	1 4.07 8.04	
18.2 16.7 A	E N	1 4.21	
18.6 16.8 H	E N	1 {4.40 F	
18.1 16.9 F	5001 K 10	3 1.52 5.79	4.27
19.3 *9.3 A	E N	2 2.90 7.44	4.54
19.2 9.5 A	E N	1 <del>2.86</del> 3.95 8.28	4.23
19.6 9.3 A	E N	2 <del>3.95</del> 2.86 7.61	4.75
19.8 10.9 A	E N	1 4.21	
19.6 14.1 K	K 12	3 {2.40 3.00	
19.6 22.9 A	E N	1 3.80	
20.7 16.3 A	O N	2 2.40	
21.0 16.6 A	E N	1 4.30	
[[Is this not 20.9?]]	21.9 20.5 A	XI eta	1 4.40

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Aug. 4, 1903

Plate B20151

V. H. CL.	Rem. L. K	Int. Br.	Photom Magn.	Diff.
17.4 8.9 A	E 5	2 3.10 7.30	4.20	
18.0 11.5 F	5000 K 10	2 3.52 7.24	3.72	
18.0 12.1 A	E N	1 4.20		
17.7 13.2 K	K 10	2 {3.00 3.72 6.48	3.48	
17.7 15.4 H	E N	1 {4.38 F		
17.4 16.3 H	E N	1 {4.30 F		
16.2 20.8 G	K 10	1 4.32 7.87		
17.9 20.5 H	E N	1 {4.28 F 7.84		
17.9 21.3 H	E N	1 {4.30 F 7.76	3.46	
18.5 6.0 H	E N	1 {4.20 F 7.35	3.15	
18.5 8.8 A	E N	1 4.07 8.04		
18.2 16.7 A	E N	1 4.21		
18.6 16.8 H	E N	1 {4.40 F		
18.1 16.9 F	5001 K 10	3 1.52 5.79	4.27	
19.3 *9.3 A	E N	2 2.90 7.44	4.54	
19.2 9.5 A	E N	1 <del>2.86</del> 3.95 8.28	4.23	
19.6 9.3 A	E N	2 <del>3.95</del> 2.86 7.61	4.75	
19.8 10.9 A	E N	1 4.21		
19.6 14.1 K	K 12	3 {2.40 3.00		
19.6 22.9 A	E N	1 3.80		
20.7 16.3 A	O N	2 2.40		
21.0 16.6 A	E N	1 4.30		
[[Is this not 20.9?]]	21.9 20.5 A	XI eta	1 4.40	

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
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[[table]]

Approx. 1875|C.P.D. Design.|1875 R.A.|1875 Dec.| Magn.|R.A.  
1900|Dec. 1900|

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

6^[[h]] 18^[[m]] - 81^[[degree]] 3^|-81^[[degree]] 175| 6 17 20|-81^[[degree]]

1.6| 7.3|6 16.1 - 81 3| 54|

5 48 - 81 40|-81 152| [[symbol-check]] 5 48 10|-81 40.1| 7.4| [[symbol-

check]] 5 45.7 - 81 40| 54|

5 39 - 81 40|-81 148| [[symbol-check]] 5 39 13|-81 40.2| 8.1| [[symbol-

check]]

5 25 - 81 40|-81 134| [[symbol-check]] 5 24 32|-81 40.2| 7.8| [[symbol-

check]] 5 22.1 - 81 39| 50|

4 55 - 81 43|-81 125| [[symbol-check]] 4 54 36|-81 42.9| 8.6| [[symbol-

check]]

3 50 - 80 26| [[symbol-check]] -80 93| [[symbol-check]] 3 49 30|-80 24.3| 8.5| -80

94| 3 49 32|-80 24.5| 9.2| [[symbol-check]] 3 43.8 - 81 10| 54 Remark

3 45-81 15| [[symbol-check]] - 81 88| [[symbol-check]] 3 45 32|-81 15.0| 9.0| -

81 89| 3 45 45|-81 15.0| 9.0| [[symbol-check]] 3 43.8 - 81 10| 54|

3 35 - 81 8|-81 83| [[symbol-check]] 3 36 8|-81 7.8| 8.1| [[symbol-check]]

3 34.5 - 81 3| 54|

6 59 - 81 0|-80 201| [[symbol-check]] 6 58 20|-80 54.5| 8.7| [[symbol-

check]] 6 56.3 - 80 57| 54|

6 23 - 81 30|-81 179| [[symbol-check]] 6 24 17|-81 29.5| 7.7| [[symbol-

check]] 6 21.8 - 81 31| 54|

4 35 - 81 50|-81 116| [[symbol-check]] 4 35 53|-81 50.7| 8.2| [[symbol-

check]]

4 33-82 3|-82 89| 4 33 32|-82 3.1| 8.4| [[symbol-check]]

4 31 - 81 52|-81 115| [[symbol-check]] 4 32 8|-81 51.6| 6.3| [[symbol-

check]] 4 29.8 - 81 49| 50|

6 20 - 82 0|-82 143| [[symbol-check]] 6 21 28-82 0.0| 7.2| [[symbol-check]]

6 18.8 - 82 1| 54|

6 18 - 81 58|-81 176| [[symbol-check]] 6 18 44|-81 57.2| 8.0| [[symbol-

check]] 6 16.1 - 81 58| 54|

6 23 - 82 7|-82 144| [[symbol-check]] 6 22 44|-82 6.6| 6.7| [[symbol-

check]] 6 20.0 - 82 8| 54|

6 1 - 82 28|-82 136| [[symbol-check]] 6 1 26|-82 26.7| 7.3| [[symbol-

check]]

5 13 - 82 38|-82 106| [[symbol-check]] 5 13 10|-82 38.1| 6.7| 5 10.2 - 82

36| 50|

5 13 - 82 38|-82 106| 5 10.2 - 82 36| 50| 5 13 10|-82 38.1| 6.7| [[symbol-

check]] 5 10.2 - 82 36| 50|

3 7 - 81 35|-81 67| [[symbol-check]] 3 6 52|-81 34.5| 7.6| [[symbol-check]]

3 5.4 - 81 29| 54|

4 36 - 83 12|-83 91| [[symbol-check]] 4 37 32|-83 10.0| 6.6| [[symbol-

check]] 4 34.5 - 83 7| 50|

4 31 - 83 18|-83 90| [[symbol-check]] 4 31 30|-83 16.8| 8.0| [[symbol-

check]]

3 30 - 82 42|-82 64| [[symbol-check]] 3 30 20|-82 41.9| 7.8| [[symbol-

check]] 3 28.2 - 82 37| 54|

6 59 - 82 45|-82 161| [[symbol-check]] 7 0 17|-82 44.2| 8.2| [[symbol-

check]] 6 57.4 - 82 46-54|

6 33 - 82 54|-82 148| [[symbol-check]] 6 34 20|-82 53.5| 7.7| [[symbol-

check]]

4 55 - 83 43|-83 94| [[symbol-check]] 4 53 58|-83 43.3| 8.3| [[symbol-

check]] 4 50.4 - 83 41| 54|

5 26 - 83 59|-83 105| 5 26 34|- 83 59.7| 7.1| [[symbol-check]] 5 22.6 - 83

59| 54|

2 42 - 82 45|-82 46| [[symbol-check]] 2 42 5|-82 46.1| 7.5| [[symbol-

check]] 2 40.6 - 82 40| 54|

7 17 - 83 32|-83 151| [[symbol-check]] 7 17 19|-83 33.1| 8.4| [[symbol-

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



check]]7 13.9 - 83 36|54|

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
(South Draper Catalog) #82  
Transcribed and Reviewed by Digital Volunteers  
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46  
 Aug. 4, 1903  
 Plate B 20151  
 [10 column table]  
 V. | H. | Cl. | Rem. | L. | K. | Int. | Br. | Photom. Magn. | Diff |  
 -----  
 23.8 | 8.4 | K | 5003 | K | 10 | 1 | 4.10 | 7.75 | |  
 24.3 | 13.5 | A | | | 3 | 2.40 | 6.24 | 3.84 | |  
 23.3 | 16.1 | H | | E | 1 | 3.87 | 7.17 | 3.26 | |  
 23.9 | 16.1 | A | | E | 2 | 3.22 | 7.18 | 3.96 | |  
 23.7 | 17.8 | A | | E | 1 | 4.03 | 7.80 | 3.77 | |  
 23.4 | 20.1 | A | | E | 1 | 3.95 | 7.59 | | |

9.25 p.m.

46

Aug. 4, 1903

Plate B 20151

[10 column table]

V. | H. | Cl. | Rem. | L. | K. | Int. | Br. | Photom. Magn. | Diff |

-----

23.8 | 8.4 | K | 5003 | K | 10 | 1 | 4.10 | 7.75 | |

24.3 | 13.5 | A | | | 3 | 2.40 | 6.24 | 3.84 | |

23.3 | 16.1 | H | | E | 1 | 3.87 | 7.17 | 3.26 | |

23.9 | 16.1 | A | | E | 2 | 3.22 | 7.18 | 3.96 | |

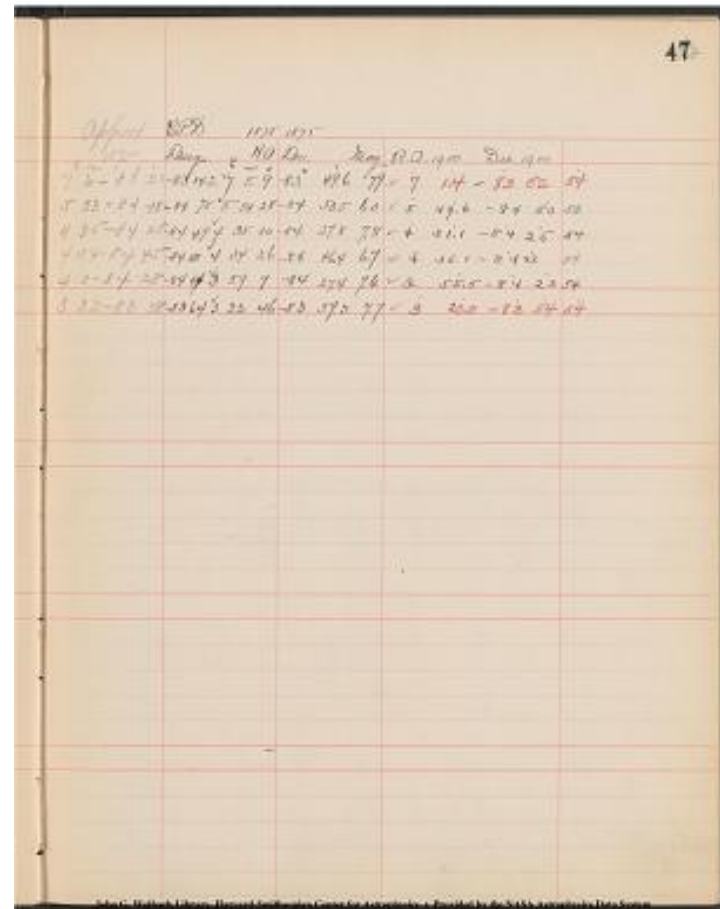
23.7 | 17.8 | A | | E | 1 | 4.03 | 7.80 | 3.77 | |

23.4 | 20.1 | A | | E | 1 | 3.95 | 7.59 | | |

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
 (South Draper Catalog) #82  
 Transcribed and Reviewed by Digital Volunteers  
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[[preprinted]] 47 [[/preprinted]]

[[table]]  
1875 approx. | C.P.D. Design. | 1875 R.A. | 1875 Dec. | Magn. | R.A. 1900 |  
Dec. 1900 |  
|---|---|---|---|---|---|  
7<sup>h</sup>[[h]] 6<sup>m</sup>[[m]] -83<sup>°</sup>[[symbol - degree symbol]] 50' -83 142 | 7<sup>h</sup>[[h]] 5<sup>m</sup>[[m]]  
9<sup>s</sup>[[s]] -83 49.6 | 7.9 | 7 1.4 | -83 52 | 54  
5 53 -84 48 | -84 75 | 5 54 28 | -84 50.5 | 6.0 | 5 49.6 | -84 50 | 50  
4 35 -84 28 | -84 49 | 4 35 10 | -84 27.8 | 7.8 | 4 31.1 | -84 25 | 54  
4 34 -84 45 | -84 48 | 4 34 26 | -84 46.4 | 6.7 | 4 30.1 | -84 43 | 54  
4 0 -84 2.8 | -84 44 | 3 59 7 | -84 27.4 | 7.6 | 3 55.5 | -84 23 | 54  
3 22 -83 58 | -83 64 | 3 22 26 | -83 59.3 | 7.7 | 3 20.0 | -83 54 | 54  
[[/table]]



Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
(South Draper Catalog) #82  
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Aug. 4, 1903

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

[[table]]

V H Cl | Rem L K | Int Br Photon Magn. | Diff

5.2 22.0 K5M | KAPPA 12 | 3 {2.78 3.10 5.14 | 2.36

6.1 11.0 A | XI eta | 1 4.18 7.58 | 3.40

6.5 13.5 A | XI eta | 1 4.30

9.0 5.8 A | nu eta | 2 3.56

9.0 11.6 A | XI eta | 2 3.35 7.31 ~~[[/strickethrough]]~~ .58 ~~[[/strickethrough]]~~ | 4.23

8.5 16.8 H | KAPPA 10 | 2 {4.10 4.40 6.90 |

9.6 6.6 F | 5004 lambda 10 | 4 1.18 4.08 | 2.90

10.0 11.4 ~~[[/strickethrough]]~~ 7 ~~[[/strickethrough]]~~ H | XI eta | 1 {4.35 F 6.48 | 2.13

10.0 16.3 A | XI eta | 1 4.00

9.6 ~~[[/strickethrough]]~~ 10 ~~[[/strickethrough]]~~ 18.8 A | nu eta | 2 3.43 6.98 | 3.55

9.4 20.3 A | XI eta | 1 4.40

9.7 20.8 A | nu 2 | 2 3.27 6.89 | 3.62

10.8 6.7 K5M | KAPPA 12 | 3 {1.55 2.23

~~[[/strickethrough]]~~ 9 ~~[[/strickethrough]]~~ 4.26 | 2.7110.2 15.9 A 8 ~~[[/strickethrough]]~~ A ~~[[/strickethrough]]~~ F | 5005 KAPPA 10 | 1 4.18~~[[/strickethrough]]~~ 10.8 12.1 F2G | 5005A KAPPA 10 | 2 3.54 6.71

11.6 11.2 A | nu 3 | 2 3.00 6.85

12.5 7.2 A | XI eta | 1 4.30

12.7 8.6 H | XI eta | 1 {4.08 4.40

12.7 12.8 K | KAPPA 10 | 3 {2.80 3.75 5.42 | 2.62

12.7 18.2 A ~~[[/strickethrough]]~~ H ~~[[/strickethrough]]~~ | XI eta | 1 {4.20

13.5 9.5 H | XI eta | 1 {4.22 F

13.5 14.3 A | XI eta | 1 4.10

13.4 15.5 A | iota 2 | 3 1.90 5.51 | 3.61

13.2 18.9 H | XI eta | 1 {4.26 F

14.0 23.1 A | iota eta | 3 2.41 6.14 | 3.73

14.6 5.6 A | nu 3 | 2 2.6 6.12 | 3.73

14.3 5.7 A | KAPPA eta | 3 1.27 5.62 | 4.35

14.1 8.3 A | nu eta | 2 3.02

14.4 31.5 A | KAPPA eta | 3 1.61 5.56 | 3.95

15.4 5.7 K | KAPPA 10 | 2 {3.33 4.20 5.76 | 2.43

48

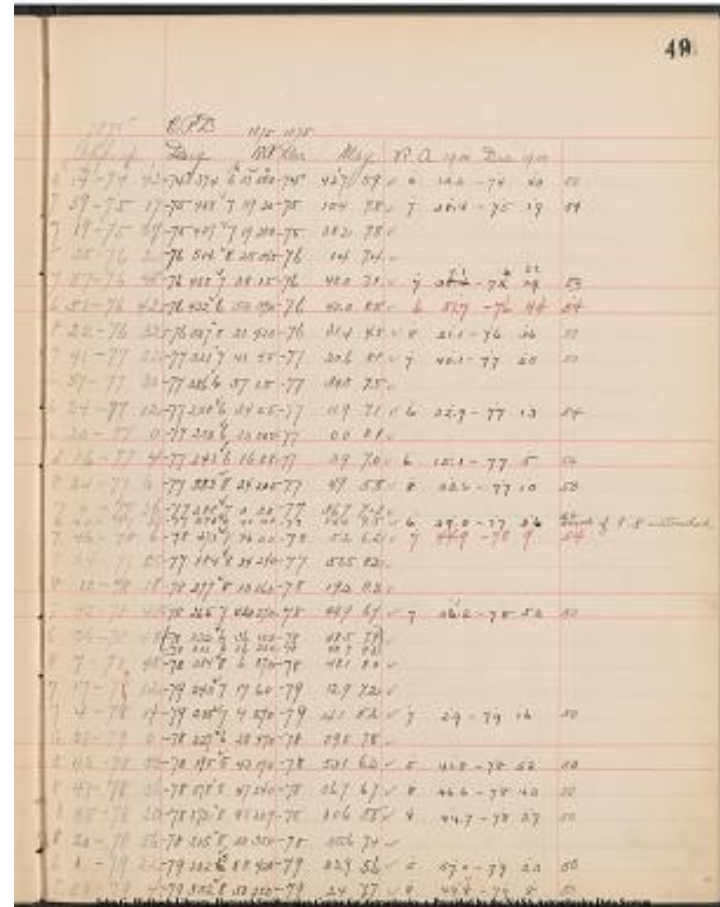
Aug 4, 1903

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

V	H	Cl	Rem	L	K	Int	Br	Photon	Magn.	Diff
5.2	22.0	K5M		KAPPA	12		3	{2.78	3.10	5.14   2.36
6.1	11.0	A		XI	eta		1	4.18	7.58	3.40
6.5	13.5	A		XI	eta		1	4.30		
9.0	5.8	A		nu	eta		2	3.56		
9.0	11.6	A		XI	eta		2	3.35	7.31	<del>[[/strickethrough]]</del> .58 <del>[[/strickethrough]]</del>   4.23
8.5	16.8	H		KAPPA	10		2	{4.10	4.40	6.90
9.6	6.6	F		5004	lambda		10	4	1.18	4.08   2.90
10.0	11.4	<del>[[/strickethrough]]</del> 7 <del>[[/strickethrough]]</del>		H			XI	eta	1	{4.35 F 6.48   2.13
10.0	16.3	A		XI	eta		1	4.00		
9.6	<del>[[/strickethrough]]</del> 10 <del>[[/strickethrough]]</del>			18.8	A		nu	eta	2	3.43 6.98   3.55
9.4	20.3	A		XI	eta		1	4.40		
9.7	20.8	A		nu	2		2	3.27	6.89	3.62
10.8	6.7	K5M		KAPPA	12		3	{1.55	2.23	
<del>[[/strickethrough]]</del> 9 <del>[[/strickethrough]]</del>								4.26		2.71
10.2	15.9	A 8		<del>[[/strickethrough]]</del> A <del>[[/strickethrough]]</del>			F		5005	KAPPA 10   1 4.18
<del>[[/strickethrough]]</del> 10.8	12.1	F2G		5005A	KAPPA		10	2	3.54	6.71
11.6	11.2	A		nu	3		2	3.00	6.85	
12.5	7.2	A		XI	eta		1	4.30		
12.7	8.6	H		XI	eta		1	{4.08	4.40	
12.7	12.8	K		KAPPA	10		3	{2.80	3.75	5.42   2.62
12.7	18.2	A		<del>[[/strickethrough]]</del> H <del>[[/strickethrough]]</del>			XI	eta	1	{4.20
13.5	9.5	H		XI	eta		1	{4.22	F	
13.5	14.3	A		XI	eta		1	4.10		
13.4	15.5	A		iota	2		3	1.90	5.51	3.61
13.2	18.9	H		XI	eta		1	{4.26	F	
14.0	23.1	A		iota	eta		3	2.41	6.14	3.73
14.6	5.6	A		nu	3		2	2.6	6.12	3.73
14.3	5.7	A		KAPPA	eta		3	1.27	5.62	4.35
14.1	8.3	A		nu	eta		2	3.02		
14.4	31.5	A		KAPPA	eta		3	1.61	5.56	3.95
15.4	5.7	K		KAPPA	10		2	{3.33	4.20	5.76   2.43

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates (South Draper Catalog) #82  
 Transcribed and Reviewed by Digital Volunteers  
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[[table]]  
 1875 Approx. | C.P.D. Design. | 1875 R.A. | 1875 Dec. | Magn. | R.A. 1900  
 Dec. 1900 | |  
 |---|---|---|---|---|  
 6<sup>h</sup>[[h]] 14<sup>m</sup>[[m]] -74<sup>s</sup>[[degree]] 43<sup>s</sup>[[h]] 13<sup>s</sup>[[m]] 58.0<sup>s</sup>[[^s]]-  
 74<sup>s</sup>[[degree]] 42.7<sup>s</sup> 5.9<sup>s</sup> 6 13.2 - 74 43|50|  
 7 39 - 75 17 -75 458| 7 39 2.0|75 15.4 |7.8| 7 38.4 - 75 19|54|  
 7 19 - 75 37 -75 437| 7 19 28.0|-75 38.2| 7.8|  
 8 25 - 76 21 -76 514| 8 25 34.5|-76 1.4| 7.4|  
 7 37 - 76 48 -76 458| 7 38 1.5|-76 48.0| 7.1| 7 37.1 - 76 |52|  
 6 51 - 76 42 -76 422| 6 52 39.0|-76 42.0| 8.5| 6 51.7 -76 44| 54|  
 8 22 - 76 32 -76 507| 8 21 42.0|-76 31.4| 4.5| 8 21.1 - 76 36| 50|  
 7 41 - 77 22 -77 321| 7 41 4.5|-77 20.6| 8.1| 7 40.1 - 77 25| 50|  
 6 57 - 77 30 -77 286| 6 57 1.5|-77 30.8| 7.5| | |  
 6 34 - 77 12 -77 258| 6 34 0.5|-77 11.9| 7.1| 6 32.9 -77 13| 54|  
 6 20 - 77 41 -77 243| 6 16 8.8|-77 3.9| 7.0| 6 15.1 - 77 5| 54|  
 6 16 - 77 41 -77 243| 6 16 8.8|-77 3.9| 7.0| 6 15.1 - 77 5| 54|  
 8 24 - 77 61 -77 383| 8 24 20.0|-77 4.9| 5.8| 8 23.6 - 77 10| 50|  
 7 0 - 77 361 -77 288| 7 0 2.0|-77 36.7| 7.4| | |  
 6 40 - 77 331 -77 270| 6 40 10.0|-77 34.4| 7.5| 6 39.0 - 77 36| 54|[[ correct  
 if 9.8 intended]]|  
 7 46 - 78 61 -78 273| 7 46 0.0|-78 5.2| 6.2| 7 44.9 - 78 9 |54|  
 8 24 - 77 551 -77 384| 8 24 24.0|-77 55.5| 8.2| | |  
 8 13 - 78 181 -78 297| 8 13 16.0|-78 19.2| 8.3| | |  
 7 32 - 78 481 -78 265| 7 32 27.0|-78 49.9| 6.7| 7 31.2 - 78 53| 50|  
 6 36 - 78 481 -78 233<sup>h</sup>[-78 232]]| 6 36 25.0<sup>h</sup>[[6 36 15.0]]|-78 48.7<sup>h</sup>[-78  
 48.5]]| 9.5<sup>h</sup>[[7.9]]| | |  
 8 7 - 78 481 -78 284| 8 6 37.0|-78 48.1| 8.0| | |  
 7 17 - 79 121 -79 243| 7 17 6.0|-79 12.9| 7.2| | |  
 7 4 - 79 141 -79 238| 7 4 27.0|-79 14.1| 5.2| 7 2.9 - 79 16 |50|  
 6 28 - 79 01 -78 227| 6 28 47.0|-78 59.5| 7.8| | |  
 5 42 - 78 531 -78 195| 5 43 17.0|-78 53.1| 6.2| 5 41.8 - 78 52|50|  
 8 47 - 78 361 -78 378| 8 47 24.0|-78 36.7| 6.7| 8 46.6 - 78 43|50|  
 8 45 - 78 301 -78 372| 8 45 20.9|-78 30.6| 5.8| 8 44.7 - 78 37|50|  
 8 20 - 78 561 -78 315| 8 20 35.0|-78 55.6| 7.4| | |  
 6 0 - 79 221 -79 202| 5 58 42.0|-79 22.9| 5.6| 5 57.0 - 79 23| 50|  
 8 50 - 79 411 -79 352| 8 50 25.0|-79 2.4| 7.7| 8 49.7 - 79 8|50|



Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
 (South Draper Catalog) #82  
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Aug. 4, 1903

Plate B10820

|V.|H.|Cl.|Rem.|L.|K.|Int.|Br.|Photon. Magn|Diff|

16.3	17.2	H	E N	1	{4.20/7	7.06	2.86		
16.2	16.7	A	I	4	3	1.80	5.64	3.84	
17.0	21.7	T5G	K	10	3	2.61	5.65	3.04	
17.3	18.5	g5K	K	10	3	{2.70/3.30	5.60	2.90	
17.9	11.5	A	E	4	3	3.03	6.93	3.90	
18.0	18.5	A	E	N	1	4.06	8.04	3.98	
17.2	19.1	A8J	5006	K	10	2	3.60	7.30	3.70
18.6	11.8	A	E	N	2	3.77	7.84	4.07	
19.0	18.5	A	E	N	2	3.98	7.44	3.46	
19.0	18.7	A	E	N	1	4.07	8.28	4.21	
19.0	21.0	F2G	5007	K	10	2	3.69	7.24	3.55
18.5	22.4	A	E	N	2	3.58	7.15	3.57	
19.4	12.1	H	E	N	1	{4.26/F	7.88	3.62	
19.7	12.3	H	E	N	1	{4.22/F	7.58	3.36	
19.3	18.4	A	E	N	2	3.43	7.61	4.18	
19.7	22.5	K	K	10	2	{3.50/4.10	6.48	2.98	
20.6	8.9	A	E	N	2	3.27	6.86	3.59	
20.4	15.7	A	E	N	1	3.92	7.63	3.71	
[[Is This not 17.2?]]									
			E	N	1	4.19			
20.3	19.6	A	E	N	1	4.35			
21.2	6.7	5008	K	10	1	4.22	7.84	3.62	
22.0	14.8	H	E	N	1	{4.17/F	7.59	3.42	
21.7	22.5	K	K	10	3	{3.04/3.30	5.85	2.81	
22.2	11.9	A	E	N	1	{4.26	8.39	4.13	
23.4	14.2	A	N	N	2	3.73	7.64	3.91	
22.5	15.5	5009	K	10	1	4.03	7.75	3.72	
23.8	20.5	G	K	10	2	3.74	6.77	3.03	
23.8	23.8	A	E	N	2	3.65	6.76	3.11	

9:45 P.M.

8:35 P.M.

50

Aug. 9, 1902

Plate B10820

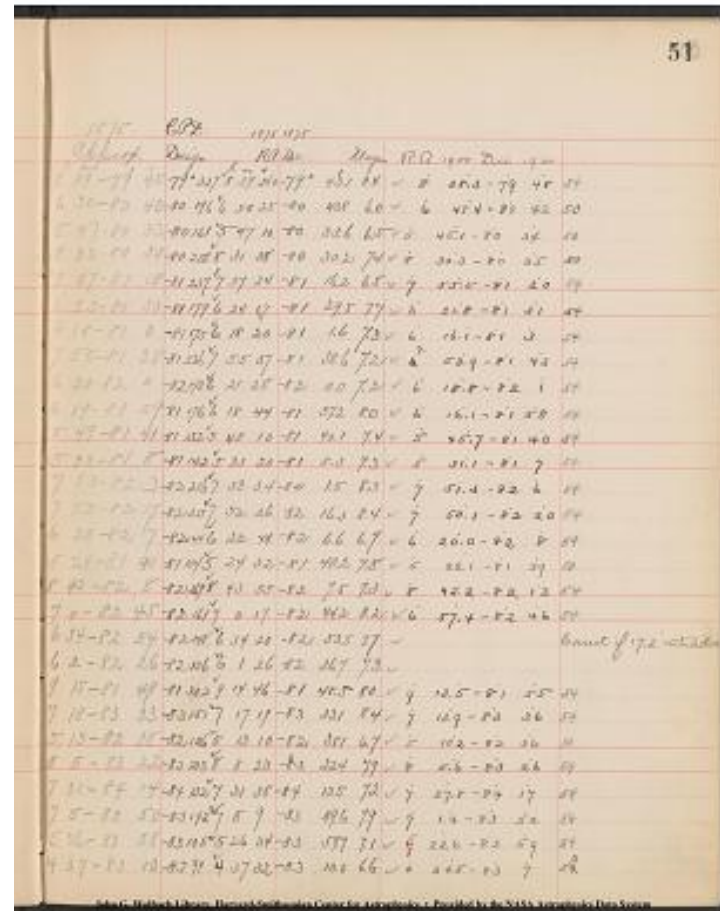
V.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photon. Magn.	Diff.
16.3	17.2	H		E	N	1		7.04	2.86
16.2	16.8	A		I	4	3		5.64	3.84
17.0	21.7	T5G		K	10	3		5.65	3.04
17.3	18.5	g5K		K	10	3		5.60	2.90
17.9	11.5	A		E	4	3		6.93	3.90
18.0	18.5	A		E	N	1		8.04	3.98
17.2	19.1	A8J	5006	K	10	2		3.60	7.30
18.6	11.8	A		E	N	2		3.77	7.84
19.0	18.5	A		E	N	2		3.98	7.44
19.0	18.7	A		E	N	1		4.07	8.28
19.0	21.0	F2G	5007	K	10	2		3.69	7.24
18.5	22.4	A		E	N	2		3.58	7.15
19.4	12.1	H		E	N	1		{4.26/F	7.88
19.7	12.3	H		E	N	1		{4.22/F	7.58
19.3	18.4	A		E	N	2		3.43	7.61
19.7	22.5	K		K	10	2		{3.50/4.10	6.48
20.6	8.9	A		E	N	2		3.27	6.86
20.4	15.7	A		E	N	1		3.92	7.63
[[Is This not 17.2?]]									
				E	N	1		4.19	
20.3	19.6	A		E	N	1		4.35	
21.2	6.7	5008	K	10	1			4.22	7.84
22.0	14.8	H		E	N	1		{4.17/F	7.59
21.7	22.5	K		K	10	3		{3.04/3.30	5.85
22.2	11.9	A		E	N	1		{4.26	8.39
23.4	14.2	A		N	N	2		3.73	7.64
22.5	15.5	5009	K	10	1			4.03	7.75
23.8	20.5	G		K	10	2		3.74	6.77
23.8	23.8	A		E	N	2		3.65	6.76

P. 101 P. 102

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
(South Draper Catalog) #82  
Transcribed and Reviewed by Digital Volunteers  
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[[table]]  
 1875 Approx. | C.P.D. Design. | 1875 R.A. | 1875 Dec. | Magn. | R.A. 1900  
 Dec. 1900 |  
 ---|---|---|---|---|---|  
 8<sup>h</sup>[[h]] 39<sup>m</sup>[[m]] -79° 45' -79° 32' 8<sup>h</sup>[[h]] 39<sup>m</sup>[[m]] 24.0<sup>s</sup>[[s]] -79°  
 43.1<sup>s</sup>[[s]] 8.4 8 38.3 -79 48|54|  
 6 50 - 80 40|-80 196|6 50 25|-80 40.8|6 0|6 48.4 -80 42|50|  
 5 47 - 80 33|-80 161|5 47 10|-80 33.6|6 5|5 45.1 -80 34|50|  
 8 32 - 80 30|-80 258|8 31 38|-80 30.2| 7.4| 8 30.3 -80 35| 50|  
 7 57 - 81 18|-18 237|7 57 24|-81 16.2|6 5| 7 55.5 -81 20| 54|  
 6 23 - 81 30|-81 179|6 24 17|-81 29.5|7.7|6 21.8 -81 31| 54|  
 6 18 - 81 0|-81 175| 6 18 20|-81 1.6|7.3|6 16.1 -81 3| 54|  
 7 55 - 81 38|-81 236|7 55 57|-81 38.6| 7.2|  
 [[/strickethrough]]6[[/strickethrough]]7 53.9 -81 43| 54|  
 6 20 - 82 0|-82 143| 6 21 28|-82 0.0|7.2|6 18.8 -82 1| 54|  
 6 19 - 81 59|-81 176|6 18 44|-81 57.2|8.0| 6 16.1 -81 58| 54|  
 5 49 - 81 41|-81 152| 5 48 10|-81 40.1| 7.4|5 45.7 -81 40| 54|  
 5 33 - 81 8|-81 142| 5 33 20|-81 8.3|7.3| 5 31.1 -81 7| 54|  
 7 53 - 82 3|-82 216|7 53 34|-82 1.5| 8.3| 51.4 -82 6| 54|  
 7 53 - 82 17|-82 215|7 52 26|-82 16.3| 8.4| 7 50.1 -82 20| 54|  
 6 23 - 82 7|-82 144| 6 22 44|-82 6.6|6.7| 6 20.0 -82 8| 54|  
 5 24 - 81 40|-81 134|5 24 32|-81 40.2| 7.8| 5 22.1 -81 39| 50|  
 8 43 - 82 8|-82 269|8 43 55|-82 7.5| 7.3| 8 42.2 -82 13| 54|  
 7 0 - 82 45|-82 161| 7 0 17|-82 44.2|8.2| 6 57.4 -82 46| 54|  
 6 34 - 82 54|-82 148| 6 34 20|-82 53.5|7.7| |correct if 17.2 intended|  
 6 2 - 82 26|-82 136| 6 1 26|-82 26.7|7.3|  
 9 15 - 81 49|-81 302| 9 14 46|-81 48.5|8.0| 9 13.5 -81 55| 54|  
 7 18 - 83 33|-83 151|7 17 19|-83 33.1|8.4|7 13.9 -83 36| 54|  
 5 13 - 82 38|-82 106| 5 13 10|-82 38.1|6.7| 5 10.2 -82 36| 50|  
 8 5 - 83 22|-83 203| 8 8 23|-83 22.4|7.9|8 5.6 -83 26| 54|  
 7 31 - 84 14|-84 132| 7 31 38|-84 13.5|7.2|7 27.8 -84 17| 54|  
 7 5 - 83 50|-83 142| 7 5 9|-83 49.6|7.9| 7 1.4 -83 52| 54|  
 5 26 - 83 58|-83 105| 5 26 34|-83  
 59.7|7.1|[[/strickethrough]]7[[/strickethrough]] 5 22.6 -83 59| 54|  
 4 37 - 83 10|-83 91| 4 37 32|-83 10.0| 6.6|6 34.5 -83 7| 50|



Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
 (South Draper Catalog) #82  
 Transcribed and Reviewed by Digital Volunteers  
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\* Mrs. H. has examined back plates B26984, 29600, 5926, 27194, 25051, and can find but one image.

Aug. 5, 1903

8.35 p.m. Plate B8990 9.35 p.m.

V. | H. | Cl. | Rem | L. | K. | Int. | Br. | Photom. Magn. | Diff. |

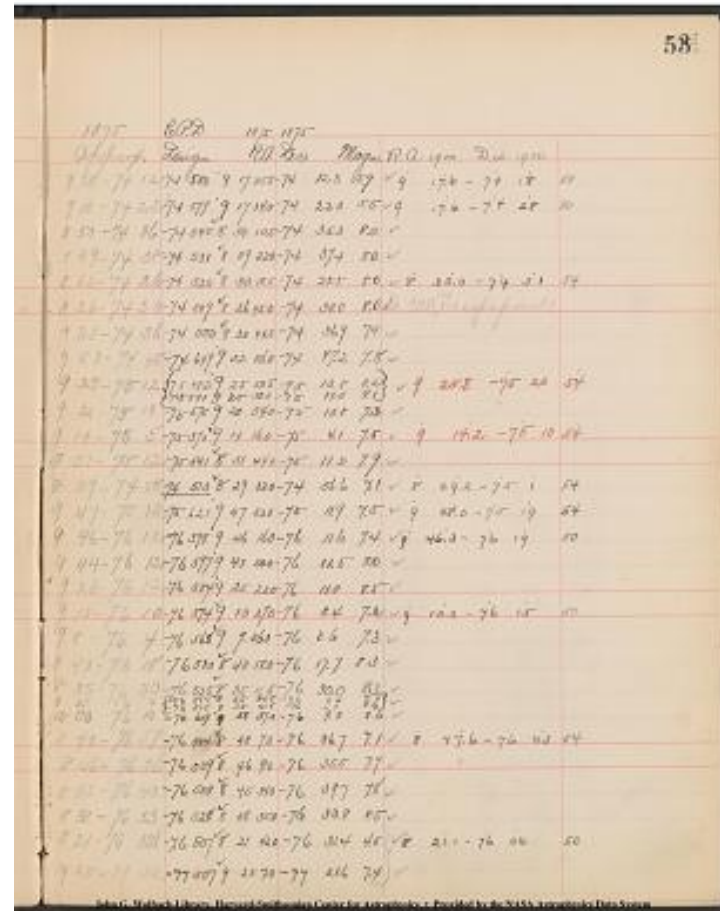
3.9	11.8	A		O	n	2	3.49	6.02	2.53	
3.9	11.9	A		V	2	4	1.62	5.45	5.83	
4.3	15.6	A		E	n	1	4.30			
4.4	17.1	A		E	n	1	4.20			
4.1	17.9	H		E	n	1	4.30, 4.40	6.73	2.63	
4.3	18.7	<del>H</del>		<del>A</del>						
4.7	19.5	A		E	n	1	4.27			
5.6	7.3	A		E	n	1	4.40			
5.8	<del>2</del>	<del>11.0</del>	H		E	n	1	4.45	8.03	
5.6	11.6	A		n	n	2	3.56			
5.3	12.5	A		E	n	2	3.81	7.88		
5.5	15.4	A		E	n	1	4.45			
5.1	<del>5</del>	<del>18.3</del>	A		n	3	2	3.38	6.86	
3.48	6.1	8.2	F	5010	K	10	2	3.38		
	<del>6.86</del>	<del>6.90</del>						3.52		
7.9	8.8	G5K		K	12	3	2.39, 2.60	5.35	2.96	
7.9	9.1	A		E	n	1	3.96			
7.6	11.3	H		E	n	1	4.30, F			
7.3	12.7	G5K		K	10	3	3.04, 3.60	6.34	3.30	
7.1	13.4	A		n	n	2	3.62			
7.6	16.7	H		K	10	1	4.02, 4.45			
8.0	17.2	G		K	10	1	4.18			
7.2	18.5	A		n	2	3.44, 4.40				
8.3	7.4	A		E	n	1	4.40			
8.1	15.7	A		n	3	2	3.05	6.87	3.82	
8.2	15.9	A		E	n	1	4.15			
8.3	16.0	A		E	n	1	4.04			
8.1	16.9	H		E	n	1	4.30, F			
8.1	18.8	F	5011	r	10	4	1.10	4.08	2.98	
Two stars superposed * { 9.8   11.6   F   5012   K   10   1   3.92										
{ 9.9   11.6   A   E   n   1   3.80										

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates (South Draper Catalog) #82  
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[[table]]

1875 approx. | C.P.D. Design. 1875 R.A. | 1875 Dec. Magn. | R.A. 1900  
Dec. 1900 |

9 18-74 12	-74 580 9 17 35.5	-74 12.3 5.9	9 17.6-74 18   50
9 18-74 22	-74 579 9 17 34.5	-74 22.0 5.5	9 17.6-74 28   50
8 50-74 36	-74 545 8 50 10.5	-74 35.3 8.0	
8 39-74 28	-74 531 8 39 22.0	-74 37.4 8.0	
8 33-74 26	-74 520 8 33 18.5	-74 25.5 8.0	8 33.0-74 31   54
8 26-74 30	-74 509 8 26 45.0	-74 30.0 8.0	Do CRD -74 510
superposed?			
8 21-74 36	-74 500 8 20 44.5	-74 36.9 7.4	
9 53-74 48	-74 649 9 52 56.0	-74 47.2 7.8	
9 25-75 12	{-75 582 9 25 50.5   -75 13.8 8.2}		9 25.8 -75 20 54
{-75 581 9 25 50.0   -75 17.0 9.1}			
9 21-75 10	-75 575 9 20 54.0	-75 10.8 7.4	
9 14-75 5	-75 510 9 14 16.0	-75 4.1 7.5	9 14.2 -75 10 54
8 51-75 12	-75 541 8 51 44.0	-5 11.2 7.9	
8 29-74 58	[[underlined]]-74 513[[/underlined]]	8 29 32.0	-74 56.6 7.1
8 29.2-75 1   54			
9 47-75 12	-75 621 9 47 53.0	-75 11.9 7.5	9 48.0-75 19   54
9 46-76 12	-76 598 9 26 16.0	-76 11.6 7.4	9 46.3-76 19   50
9 44-76 12	-76 597 9 43 50.0	-76 11.5 8.0	
9 26-76 12	-76 584 9 25 22.0	-76 11.0 8.5	
9 13-76 10	-76 574 9 13 27.0	-76 8.4 7.2	9 13.2 -76 15   50
9 8-76 4	-76 568 9 7 36.0	-76 3.6 7.3	
8 40-76 18	-76 530 8 40 18.0	-76 17.7 8.3	
8 35-76 30	-76 525 8 35 11.5	-76 30.0 8.3	
8 25-76 0	{-76 514 8 26 34.5   -76 1.4 7.4}		
{-76 515 8 25 41.5   -76 1.7 8.6 }			
10 00-76 10	-76 609 9 58 37.0	-76 9.3 8.6	
8 48-76 37	-76 544 8 48 7.0	-76 36.7 7.1	8 47.6-76 43   54
8 46-76 36	-76 539 8 46 9.0	-76 35.5 7.7	
8 45-76 40	-76 538 8 45 34.0	-76 39.7 7.8	
8 38-76 33	-76 528 8 38 35.0	-76 33.8 8.5	
8 21-76 32	-76 507 8 21 42.0	-76 31.4 4.5	8 21.1-76 36   50
9 25-77 22	-77 507 9 25 7.0	-77 21.6 7.4	



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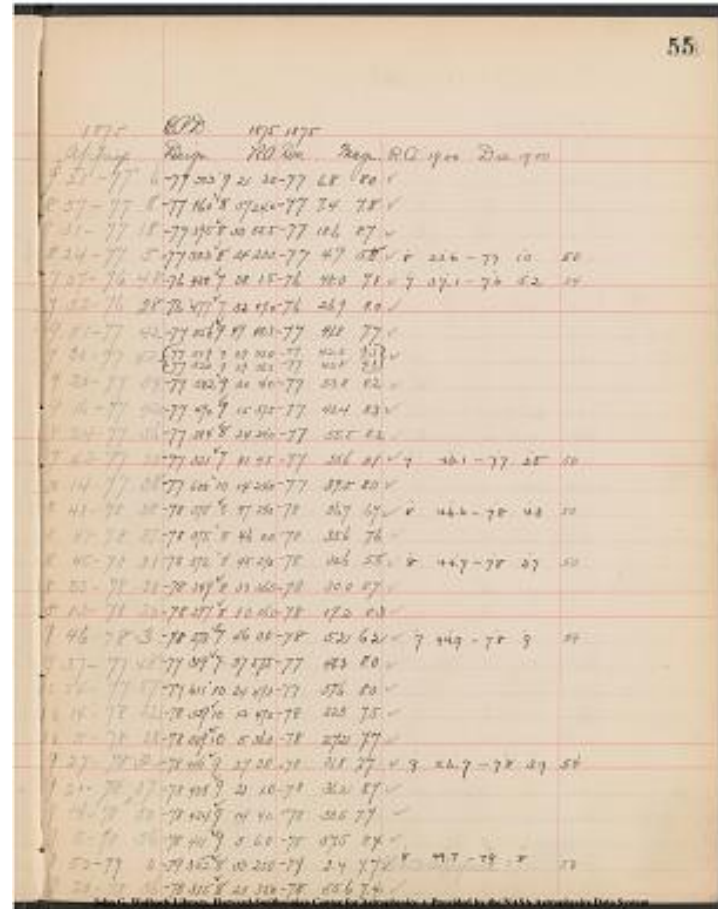
[[table]]									
V.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photon.	Magn.
Diff.									
9.3	12.0	A		C	H	1	4.26		
9.2	14.7	A		E	H	1	4.11		
9.6	17.6	A		E	H	1	4.20		
9.2	18.4	K		12	3	{1.70 2.20}	4.26	2.56	
10.0	23.6	A		N	N	2	3.02	7.31	4.29
9.0	22.2	A		E	N	1	4.32		
11.1	9.1	A		S	4	2	3.56		
10.6	11.2	A		E	N	1	4.20		
10.8	12.5	A		E	N	1	4.30		
10.4	12.7	A		E	N	1	4.17		
10.9	18.1	A		E	N	1	4.21		
10.9	22.9	H		E	N	1	4.45 <sup>^</sup> [[{3.96}]]	6.48	2.52
11.6	6.6	A		E	N	1	4.07		
12.0	15.7	A		T	5	2	2.03	6.12	4.09
12.0	15.8	A		E	N	1	3.32		
11.8	15.9	A		T	N	3	0.80	5.62	4.82
12.0	17.1	H		E	N	1	F <sup>^</sup> [[{4.10}]]		
11.9	19.1	H		K	10	2	4.22 <sup>^</sup> [[{3.77}]]		
12.0	22.0	A		N	3	2	2.83	6.85	4.02
11.8	22.9	H		E	N	1	F <sup>^</sup> [[{4.30}]]		
12.5	5.7	A		E	N	2	3.71		
12.9	7.1	A		N	N	2	3.29		
12.8	7.9	A		N	H	2	3.12		
12.1	11.7	A		S	N	2	3.68	7.84	4.16
12.2	12.3	A		E	N	1	4.31		
12.6	13.1	A		S	N	2	3.70		
12.8	14.0	A		E	N	1	4.22		
12.8	15.3	K		K	10	2	3.77 <sup>^</sup> [[{2.95}]]	5.76	2.81
12.9	18.2	A		N	N	2	2.86		

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
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[[table]]

1875 approx. |C.P.D. Design. |1875 R.A. |1875 Dec. | Magn. | R.A. 1900 |  
Dec. 1900 |

1875 approx.	C.P.D. Design.	1875 R.A.	1875 Dec.	Magn.	R.A. 1900	Dec. 1900
9 <sup>h</sup> 21 <sup>m</sup> 6 <sup>s</sup>	77 503	9 21 3.0	-77 6.8	8.0		
8 57 -77 8	77 460	8 57 24.0	-77 7.4	7.8		
8 31 -77 18	77 395	8 30 55.5	-77 18.6	8.7		
8 24 -77 5	77 383	8 24 20.0	-77 4.9	5.8	8 23.6	-77 10.50
7 37 -76 48	76 458	7 38 1.5	-76 48.0	7.1	7 37.1	-76 52
7 52 -76 28	76 477	7 52 47.0	-76 26.9	8.0		
9 51 -77 42	77 556	9 49 48.3	-77 41.8	7.7		
9 30 -77 42	77 520	9 29 56.3	-77 42.5	9 29 51.0	-77 42.3	9 30 51.0
9 20 -77 54	77 502	9 20 4.0	-77 53.8	8.2		
9 16 -77 42	77 490	9 15 37.5	-77 42.4	8.3		
8 24 -77 56	77 384	8 24 24.0	-77 55.5	8.2		
7 42 -77 20	77 321	7 41 4.5	-77 20.6	8.1	7 40.1	-77 25 50
10 14 -77 38	77 600	10 14 24.0	-77 39.5	8.0		
8 48 -78 38	78 378	8 47 24.0	-78 36.7	6.7	8 46.6	-78 43 50
8 47 -78 37	78 375	8 46 0.0	-78 35.6	7.6		
8 45 -78 31	78 372	8 45 29.0	-78 30.6	5.8	8 44.7	-78 37 50
8 33 -78 30	78 349	8 33 26.0	-78 30.0	8.7		
8 13 -78 20	78 297	8 13 16.0	-78 19.2	8.3		
7 46 -78 3	78 273	7 46 0.0	-78 5.2	6.2	7 44.9	-78 9 54
7 37 -77 48	77 319	7 37 57.5	-77 48.3	8.0		
10 24 -77 57	77 611	10 24 49.0	-77 57.6	8.0		
10 14 -78 22	78 529	10 13 47.0	-78 22.8	7.5		
10 5 -78 28	78 509	10 5 36.0	-78 27.2	7.7		
9 27 -78 32	78 446	9 27 30.0	-78 31.8	7.7	9 26.7	-78 39 54
9 20 -78 37	78 438	9 21 1.0	-78 36.2	8.7		
9 14 -78 50	78 424	9 14 4.0	-78 50.5	7.9		
9 5 -78 56	78 411	9 5 6.0	-78 57.5	8.4		
8 50 -79 0	79 352	8 50 25.0	-79 2.4	7.8	8 49.7	-79 8 50
8 20 -78 56	78 315	8 20 35.0	-78 55.6	7.4		



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V.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photon.	Magn.	Diff.		
12.9	19.6	G		K	10	1	4.01					
13.5	7.4	A		E	N	1	3.90					
13.3	10.1	H		K	10	2	4.20	[[{3.74}]]				
13.3	15.8	G		K	10	1	4.18					
13.9	22.8	K		K	10	3	3.12	[[{2.52}]]	5.42	2.90		
14.3	9.7	A		[[iota]]	N	3	2.23	6.54	4.31			
14.8	10.7	A		E	N	1	3.85					
14.7	10.9	A		E	N	2	3.59					
14.8	11.5	A		E	N	1	4.25					
14.6	12.3	H		K	10	2	4.15	[[{3.72}]]	7.62	3.90		
14.7	12.6	A		E	N	1	3.99	8.67				
14.1	14.3	A		E	N	1	4.00					
14.2	16.3	H		E	N	1	4.40	[[{3.80}]]	7.06	3.26		
14.2	23.0	H		E	N	1	F^[[{4.17}]]					
14.6	5.3	A		[[xi]]	N	2	3.43					
15.2	5.2	A		[[chi]]	N	4	1.80	6.18	4.38			
[[is this not 6.1? 16.0]5.1]A [[sigma]]N1 3.95												
15.7	11.4	B		501	[[strikethrough]]	2	[[strikethrough]]	3	[[mu]]	N4	0.23	
15.24	5.01											
15.4	12.1	F2G		501	[[strikethrough]]	3	[[strikethrough]]	4	[[iota]]	10	3	1.30
15.44	4.14											
15.8	16.8	K		K	12	2	2.50	[[{1.88}]]	5.60	3.72		
15.4	17.1	A		[[sigma]]	N	1	4.15					
15.2	23.8	A		[[xi]]	N	2	3.44					
16.5	5.5	G5K		K	10	3	2.40	[[{2.02}]]	5.48	3.40		
16.6	5.5	A		[[lambda]]	N	5	B	4.62	B			
15.3	6.4	F		5015	K	10	2	2.84	7.02	4.18		
16.5	8.0	A		E	N	1	4.10					
16.3	11.7	A		E	N	2	3.53	8.02				
17.6	5.6	A		E	N	2	3.41	8.31				
17.4	7.0	A		E	N	2	3.07	7.93				

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V. H. Cl. Rem. L. K. Int. Br. Photon. Magn. Diff.

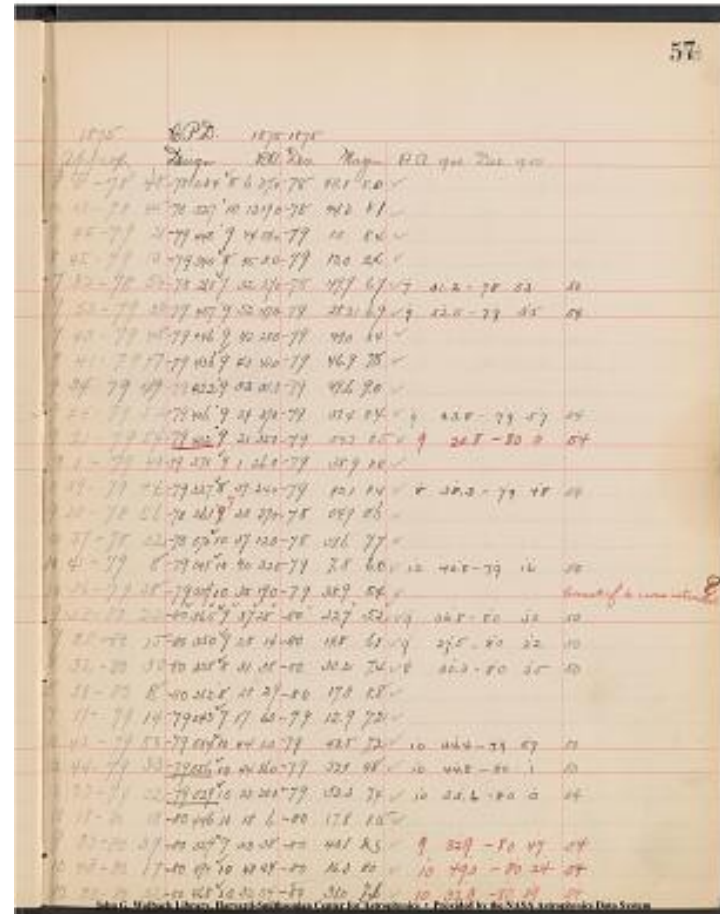
12.9	19.6	G		K	10	1	4.01					
13.5	7.4	A		E	N	1	3.90					
13.3	10.1	H		K	10	2	4.20	[[{3.74}]]				
13.3	15.8	G		K	10	1	4.18					
13.9	22.8	K		K	10	3	3.12	[[{2.52}]]	5.42	2.90		
14.3	9.7	A		[[iota]]	N	3	2.23	6.54	4.31			
14.8	10.7	A		E	N	1	3.85					
14.7	10.9	A		E	N	2	3.59					
14.8	11.5	A		E	N	1	4.25					
14.6	12.3	H		K	10	2	4.15	[[{3.72}]]	7.62	3.90		
14.7	12.6	A		E	N	1	3.99	8.67				
14.1	14.3	A		E	N	1	4.00					
14.2	16.3	H		E	N	1	4.40	[[{3.80}]]	7.06	3.26		
14.2	23.0	H		E	N	1	F^[[{4.17}]]					
14.6	5.3	A		[[xi]]	N	2	3.43					
15.2	5.2	A		[[chi]]	N	4	1.80	6.18	4.38			
[[is this not 6.1? 16.0]5.1]A [[sigma]]N1 3.95												
15.7	11.4	B		501	[[strikethrough]]	2	[[strikethrough]]	3	[[mu]]	N4	0.23	
15.4	12.1	F2G		501	[[strikethrough]]	3	[[strikethrough]]	4	[[iota]]	10	3	1.30
15.44	4.14											
15.8	16.8	K		K	12	2	2.50	[[{1.88}]]	5.60	3.72		
15.4	17.1	A		[[sigma]]	N	1	4.15					
15.2	23.8	A		[[xi]]	N	2	3.44					
16.5	5.5	G5K		K	10	3	2.40	[[{2.02}]]	5.48	3.40		
16.6	5.5	A		[[lambda]]	N	5	B	4.62	B			
15.3	6.4	F		5015	K	10	2	2.84	7.02	4.18		
16.5	8.0	A		E	N	1	4.10					
16.3	11.7	A		E	N	2	3.53	8.02				
17.6	5.6	A		E	N	2	3.41	8.31				
17.4	7.0	A		E	N	2	3.07	7.93				

Rev. C. D. Dyer, Harvard College Observatory, Cambridge, U. S. A. Published by the University Press, Cambridge, Mass.

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[[table]]  
 1875 Approx. | C.P.D. Design | 1875 R.A. | 1875 Dec. | Magn. | R.A.  
 1900 | Dec. 1900 | |  
 |-----|-----|-----|-----|  
 8<sup>h</sup> | 5<sup>m</sup> | -78 | [[symbol - degree symbol]] 48' | -78 284 | 8 6 37.0 | -78  
 48.1 | 8.0 | | | | |  
 10 13 -78 45 | -78 527 | 10 13 19.0 | -78 44.3 | 8.1 | | | |  
 9 45 -79 2 | -79 448 | 9 44 54.0 | -79 1.0 | 8.4 | | | |  
 8 45 -79 13 | -79 340 | 8 45 8.0 | -79  
 13.0 | 8. | ~~2~~ | ~~2~~ | | | |  
 7 32 -78 50 | -78 215 | 7 32 27.0 | -78 49.9 | 6.7 | 7 31.2 | -78 53 | 50 |  
 9 53 -79 30 | -79 457 | 9 52 47.0 | -79 28.2 | 6.9 | 9 52.5 | -79 35 | 54 |  
 9 43 -79 48 | -79 446 | 9 42 28.0 | -79 49.0 | 8.4 | | | |  
 9 41 -79 47 | -79 436 | 9 40 41.0 | -79 46.9 | 7.8 | | | |  
 9 34 -79 49 | -79 422 | 9 33 51.0 | -79 49.6 | 9.0 | | | |  
 9 24 -79 52 | -79 406 | 9 24 29.0 | -79 51.4 | 8.4 | 9 23.8 | -79 57 | 54 |  
 9 21 -79 54 | -79 402 | -79 402 | | | | |  
 20.8 | -80 0 | 54 |  
 9 1 -79 40 | -79 371 | 9 1 26.0 | -79 38.9 | 8.0 | | | |  
 9 39 -79 44 | -79 327 | 8 39 24.0 | -79 43.1 | 8.4 | 8 38.3 | -79 48 | 54 |  
 9 28 -78 56 | -78 261 | ~~9~~ | ~~7~~ | 28 39.0 | -78  
 54.9 | 8.6 | | | | |  
 10 37 -78 52 | -78 570 | 10 37 12.0 | -78 51.6 | 7.7 | | | |  
 10 41 -79 8 | -79 548 | 10 40 32.0 | -79 7.8 | 6.0 | 10 40.8 | -79 16 | 50 |  
 10 36 -79 38 | -79 539 | 10 35 19.0 | -79 38.9 | 8.4 | | | | Correct if intended?  
 9 38 -80 22 | -80 365 | 9 37 28 | -80 22.7 | 5.2 | 9 36.8 | -80 30 | 50 |  
 8 28 -80 15 | -80 350 | 8 28 14 | -80 14.8 | 6.1 | 8 27.5 | -80 22 | 50 |  
 8 28 -80 30 | -80 258 | 8 31 38 | -80 30.2 | 7.4 | 8 30.3 | -80 35 | 50 |  
 8 28 -80 18 | -80 252 | 8 28 29 | -80 17.8 | 8.8 | | | |  
 7 17 -79 14 | -79 243 | 7 17 60 | -79 12.9 | 7.2 | | | |  
 10 43 -79 50 | -79 554 | 10 44 1.0 | -79 48.5 | 7.2 | 10 44.4 | -79 57 | 50 |  
 10 44 -79 53 | -79 556 | -79 556 | | | | |  
 52.8 | 4.8 | 10 44.8 | -80 1 | 50 |  
 10 33 -79 52 | -79 529 | -79 529 | | | | |  
 52.3 | 7.4 | 10 33.6 | -80 0 | 54 |  
 10 18 -80 18 | -80 446 | 10 18 6 | -80 17.8 | 8.5 | | | |  
 9 33 -80 39 | -80 359 | 9 33 38 | -80 40.1 | 8.3 | 9 32.9 | -80 47 | 54 |  
 10 48 -80 17 | -80 490 | 10 48 44 | -80 16.3 | 8.0 | 10 49.0 | -80 24 | 54 |  
 10 33 -80 32 | -80 468 | 10 32 54 | -80 36.0 | 7.6 | 10 32.9 | -80 39 | 54 |  
 [[/table]]



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 [table]  
 [V. | H. | Cl. | Rem. | L. | K. | Int. | Br. | Photom. Magn. | Diff. |]  
 -----  
 17.1|7.3|kappa|kappa|10|1|3.40|3.98|7.53|  
 18.0|7.9|eta|xi|eta|1|3.98|[[?]]|  
 17.9|8.1|alpha|xi|eta|1|3.96|  
 18.0|8.3|alpha|[[?]]|[[~~eta~~]]|[[~~eta~~]]^[[5]]|2|2.50|7.30|4  
 .80|  
 17.4|9.3|[[?]]|kappa|10|3|2.50|2.90|6.60|4.10  
 17.4|9.8|eta|xi|[[?]]|1|4.03|[[?]]|8.66|4.63  
 17.9|10.0|A|xi|[[?]]|1|3.70|8.38|4.78  
 17.3|11.2|[[?]]|5kappa|kappa|10|2|2.80|3.15|6.76|  
 17.4|11.3|A|xi|eta|2|3.75|8.58|  
 17.3|12.0|A|xi|eta|1|3.90|8.63|  
 17.3|13.1|[[?]]|5016|kappa|10|1|3.17|7.67  
 17.8|19.2|A|eta|4.3|2.27|6.93|4.66  
 18.0|21.7|A|xi|eta|1|3.78|8.45|  
 19.0|5.6|[[?]]|kappa|10|2|2.30|6.67|4.37  
 18.3|7.4|eta|kappa|10|2|3.13|3.70|7.50|4.37  
 18.8|7.7|A|theta|eta|3|2.17|7.02|4.85  
 18.6|9.9|A|lambda|eta|4|0.86|5.62|4.76  
 18.4|12.0|A|[[?]]|eta|2|2.30|7.72|5.42  
 18.2|13.0|A|xi|eta|1|3.51|  
 18.4|13.5|F|5017|kappa|10|2|3.25|7.84|4.59  
 18.1|14.4|A|xi|eta|1|3.78|  
 18.9|15.6|F2G|[[sigma]]|10|3|1.63|6.86|5.23  
 18.5|19.1|alpha|[[sigma]]|5|2|3.72|7.84|5.12  
 18.9|22.2|alpha|xi|eta|1|3.96|  
 [[Is this not 23.4]] 18.2|22.4|[[?]]|xi|eta|1|4.18|[[?]]|7.98|  
 18.9|23.8|eta|xi|eta|1|3.79|4.25|7.35|3.56  
 18.7|24.5|A|theta|eta|3|1.80|5.64|3.84  
 19.9|10.8|F|5018|kappa|10|1|3.18|8.29|  
 19.5|11.3|A|[[?]]|eta|2|2.97|8.20|5.23

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[[table]]

1875 Approx. | CPD Design. | 1875 R.A. | 1875 Dec. | Magn. | R.A. 1900  
Dec. 1900 |

~~10<sup>h</sup> 28<sup>m</sup> -80° 27' -80 461 | 10 28 29 -80 25.2 | 9.4~~  
~~10 25 -80 54 -80 459 | 10 25 1 -80 54.3 | 8.9 | | |~~  
~~10 22 -80 54 -80 453 | 10 22 14 -80 55.4 | 8.4 | | |~~  
~~10 21 -81 0 -81 432 | 10 21 33 -81 1.0 | 7.3 | 10 21.3 -81 9 54 |~~  
~~10 6 -80 56 -80 423 | 10 6 27 -80 57.4 | 7.8 | 10 6.1 -81 4 50 |~~  
~~10 0 -80 59 -80 403 | 9 59 51 -80 58.9 | 8.9 | 9 59.4 -81 6 54 |~~  
~~10 0 -81 15 -81 390 | 9 59 58 -81 14.2 | 8.4 | 9 59.4 -81 21 54 |~~  
~~9 42 -81 8 -81 365 | 9 42 33 -81 8.3 | 7.9 | 9 41.8 -81 15 54 |~~  
~~9 41 -81 10 -81 363 | 9 41 29 -81 10.7 | 8.2 | 9 40.7 -81 18 54 |~~  
~~9 33 -81 10 -81 346 | 9 32 25 -81 9.0 | 8.4 | 9 31.5 -81 16 54 |~~  
~~9 18 -81 15 -81 312 | 9 18 21 -81 14.7 | 8.1 | 9 17.3 -81 21 54 |~~  
~~7 56 -81 17 -81 237 | 7 57 24 -81 16.2 | 6.5 | 7 55.5 -81 20 54 |~~  
~~7 24 -80 58 | -80 220 | 7 25 18 -80 59.1 | 8.2 | 7~~  
~~23.3 -81 2 54 |~~  
~~10 58 -80 55 | -80 509 | 10 57 43 -80 53.2 |~~  
~~7.4 | 10 58.1 -81 1 50 |~~  
~~10 32 -80 59 | -80 467 | 10 32 53 -80 58.1 | 8.1 |~~  
~~10 32.8 -81 6 |~~  
~~10 32 -81 18 -81 449 | 10 32 33 -81 16.5 | 7.1 | 10 32.4 -81 25 50 |~~  
~~-81 448 | 10 32 16 -81 16.9 | 9.0 |~~  
~~10 4 -81 36 -81 339 | 10 3 58 -81 36.6 | 6.3 | 10 3.4 -81 44 50 |~~  
~~9 35 -81 41 -81 351 | 9 35 7 -81 42.4 | 7.6 | 9 34.2 -81 49 54 |~~  
~~9 21 -81 42 -81 318 | 9 20 28 -81 41.6 | 8.4 |~~  
~~9 15 -81 48 -81 302 | 9 14 46 -81 48.5 | 8.0 | 9 13.5 -81 55 54 |~~  
~~9 2 -81 43 -81 293 | 9 1 20 -81 43.1 | 8.6 |~~  
~~8 44 -82 7 -82 269 | 8 43 55 -82 7.5 | 7.3 | 8 42.2 -82 13 54 |~~  
~~7 56 -81 38 -81 236 | 7 55 57 -81 38.6 | 7.2 | 7 53.9 -81 43 54 |~~  
~~7 15 -81 16 -81 214 | 7 15 47 -81 17.4 | 8.2 |~~  
~~7 6 -80 38 -80 209 | 7 5 47 -80 39.4 | 8.6 | 7 3.8 -80 41 54<sup>h</sup> | [Correct if 23.4~~  
~~was intended]] |~~  
~~6 59 -80 53 -80 201 | 6 58 20 -80 54.5 | 8.7 | 6 56.3 -80 57 54 |~~  
~~6 52 -80 40 -80 196 | 6 50 25 -80 40.8 | 6.0 | 6 48.4 -80 42 50 |~~  
~~9 56 -82 20 -82 363 | 9 55 42 -82 19.1 | 8.3 | 9 54.8 -82 26 54 |~~  
~~9 48 -82 14 -82 351 | 9 47 48 -82 12.6 | 8.2 | 9 47.0 -82 20 54 |~~

[[table]]

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
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Aug. 5, 1903

Plate B 8990

[[table]]

V. | H | Cl. | Rem | L. | K. | Int. | Br. | Photom. Magn. | Diff. |

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

^[[Is this not 13.4?]] 19.5|14.4|A| |E|N|1| 3.70 | | |

19.8|19.1|H| |K|10|2| 3.85^[[3.22]]|7.58|4.56|

19.3|19.1|H| |K|10|2| 3.90^[[3.25]]|7.88|4.63|

19.5|19.9|A| |E|N|1| 3.55 | | |

20.7|6.6|A| |O|N|2| 2.61|7.53|4.92|

20.2|9.2|G5K| |K|10|3| 2.70^[[2.28]]|6.71|4.43|

21.1|~~[[3.45]]~~2|~~[[2.70]]~~13.4|H|

K|10|2| 3.45^[[2.70]]|7.81|5.11|

21.7|17.5|A| |~~[[eta]]~~N|2| 2.60|8.39| |

22.0|21.8|A| |E|N|2| 3.20|7.63| |

2|~~[[3.45]]~~2|~~[[2.70]]~~2.3|10.6|F|5019|K|10|2| 2.72|7.31|

4.59|

22.4|13.5|A| |E|N|1| 3.62 | | |

23.0|13.1|K| |K|10|2| 3.37^[[2.50]]|7.15|4.65|

22.9|13.3|H| |K|10|1| 3.84^[[2.87]]|7.85|4.98|

22.0|15.6|A| |E|N|2| 3.27 | | |

22.6|15.6|A| |E|N|2| 3.30 | | |

22.9|16.1|H| |E|N|1|F^[[4.07]] | | |

22.9|16.3|H| |E|N|1| 3.90^[[3.40]] | | |

22.9|19.4|H| |E|N|1|F^[[4.00]] | | |

22.9|20.2|K| |K|10|2| 3.90^[[3.48]]|7.59|4.11|

^[[Is this not 6.7?]] 22.4|5.7|~~[[3.45]]~~H|~~[[2.70]]~~A|

|E|N|1| 3.91 | | |

24.2|8.5|A| |r|~~[[?]]~~N|3| 1.95|6.26| |

24.1|13.9|H| |E|N|1|F^[[4.07]] | | |

23.9|19.0|A| |O|N|e| 3.13|7.64|4.51|

^[[9.35 P.M.]] 23.8|20.5|F|5020|K|10|1| 3.42|7.75| |

[[/table]]

10.10 P.M.

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[[table]]

Approx 1875	CPD Design.	1875 R.A.	1875 Dec.	Magn.	R.A. 1900	Dec. 1900
-------------	-------------	-----------	-----------	-------	-----------	-----------

$$9[{}^{\wedge}h] \ 16[{}^{\wedge}m] \ -82[\text{symbol} - \text{degree symbol}] \ 19' -82[\text{symbol} - \text{degree symbol}] \ 312[{}^{\wedge}h] \ 16^{\wedge}[{}^{\wedge}m] \ 52^{\wedge}[{}^{\wedge}s] -82[\text{symbol} - \text{degree symbol}]$$

20.3|8.6| |Correct if 13.4 intended?

7 52 -82 15|-82 215|7 52 26|-82 16.3|8.4|7 50.1|-82 20|54|

7 53 -82 2|-82 216|7 53 34|-82 1.5|8.3|7 51.4|-82 6|54|

	7	42	-81	58	-81	229	7	42	55	-81	57.9	8.4				
	10	50	0	1	55	155			133	0	1	170	55			133

10 58 -81 55[[          ]] -81 478[[          ]] 10 57 24|-81  
54 617 5110 57 61 82 21541

54.6|7.5|10 57.6|-82 3|54|  
110 31 33 10|33 333|10

10	21	-82	18	-82	396	10	20	51	-82	16.8	8.1	10	20.4	-82	25	54
0	20	82	11	82	380	0	20	10	82	13	1	8	21	0	18	51

9	20	-83	14	-83	289	9	20	19	-83	13.1	8.2	9	18.5	-83	19	54
8	7	-83	31	-83	203	8	8	23	-83	22.1	7.0	8	5.6	-83	26	51

0 7 -03 21	-03 203	0 8 23	-03 22.4	7.9	0 5.0	-03 20	34
7 0 83 13	83 161	7 0 17	83 11 2	8 3	6 57 1	83 16	5

7 0 -82 43|-82 161| 7 0 17|-82 44.2|8.2|6 57.4|-82 46|54|  
10 10 -83 27|-83 336^[[[~~83 335~~]]](/del)

10 10 -83 27|-83 330-[[[strikethrough]]83 330[/strikethrough]]]] 10 11  
16^[[[strikethrough]] 10 10 50[/strikethrough]]]]-83

28  $5^{\wedge}[\text{[~~str~~]}] - 83 \text{ } 24 \text{ } 5[\text{[~~/str~~]}]$

28.5 ~~[[[strikethrough]] -83 24.5[[/strikethrough]]]] / 7.4 ~~[[[strikethrough]]~~  
10 0[[/strikethrough]]] 10 10 4|-83 35|54|~~

19 20 -83 48|83 287^|83 286||9 19 47^|9 19 31||-83 49.4^|[-83

50.1]]|9.3^[[8.9]]| | | |

|9 27 -84 7|-84 219|9 28 24|-84 7.4| 8.2|

```
|9 26.3 -84 14 54|
```

|9 26 -84 5|-84 216|9 26 219|-84 5.5|8.4|9 24.2|-84 12|54|

8 42 -83 38	-83 238	8 42 0	-83 39.2	7.9			
-------------	---------	--------	----------	-----	--	--	--

8 40 -83 54	-83 234	8 40 32	-83 55.9	8.4				
-------------	---------	---------	----------	-----	--	--	--	--

8 30 -84 0	-83 222	8 30 17	-83 59.4	8.6				
------------	---------	---------	----------	-----	--	--	--	--

8 25 -84 3	-84 174	8 26 30	-84 3.0	8.7				
------------	---------	---------	---------	-----	--	--	--	--

[illegible]

7 18 -83 32 -83 151 7 17 19 -83 33.1 8.4 7 13.9 -83 36 54

11 26 -83 24|-83 417|11 27 14|-83 24.4|8.0| | correct if 6.7  
intended?

11 0 -83 54|-83 386|11 0 5|-83 55.4|6.5|11  
0.0|-84 3|50|

|9 15 -84 38|-84 211|9 15 47|-84 39.6| 8.4| | | |

|7 31 -84 15|-84 132|7 31 38|-84 13.5|7.2|7 27.8|-84 17|54|

7 5 -83 48|-83 142|7 5 9|-83 49.6|7.9|7 1.4|-83 52|54|

[[/table]]

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62  
 Sept. 14, 1903  
 Plate B8570  
 9.15P.M.  
 [[table]]  
 8.10P.M.  
 V. H. Cl. | Rem. L. K. | Int Br. Photon Magn | Diff.  
 ---|---|---|  
 4.5 7.4 A | Omicron eta | 2 3.29 6.60 | 3.31  
 4.0 9.2 A | nu eta | 1 4.07  
 4.2 9.9 A | iota eta | 2 3.13 6.36 | 3.23  
 4.1 13.8 F | 5200 KAPPA 10 | 1 4.30 7.61 | 3.31  
 4.1 18.2 H | epsilon eta | 1 { 4.48 F 7.76 | 3.28  
 4.7 23.6 Ma | KAPPA 10 | 2 { 3.95 4.36 5.82 | 1.87  
 [[Is this not 5.5?]] 6.5 15.0 F | 5101 nu 10 | 2 3.92  
 6.6 10.1 H | KAPPA 10 | 1 { 4.11 4.30  
 6.2 16.1 F | 5202 KAPPA 10 | 2 3.82  
 6.1 16.4 K | KAPPA 12 | 2 { 3.57 3.79 6.43 | 2.86  
 6.7 20.4 H | epsilon eta | 1 { 4.83 4.40  
 6.0 2.0 F2G | KAPPA 10 | 1 4.24 7.31 | 3.07  
 8.0 7.9 F | 5203 KAPPA 10 | 1 4.03  
 8.3 10.8 Mb | KAPPA 10 | 2 { 3.80 4.10 6.40 | 2.60  
 7.5 13.4 H | epsilon eta | 1 { 4.17 4.50  
 7.1 14.1 G5K | KAPPA 10 | 2 { 3.63 3.82 6.76 | 3.13  
 7.7 15.7 Ma? | epsilon eta | 1 { 4.48 F  
 7.3 16.0 K | KAPPA 10 | 3 { 3.26 3.78 6.14 | 2.88  
 8.6 20.3 H | epsilon eta | 1 { 4.40 F  
 8.7 21.7 A | ~~Ma~~ | epsilon eta | 1 4.10  
 [[Is this not 8.7?]] 6.7 23.5 A | omicron eta | 2 3.39 7.05 | 3.66  
 [[22.9?]] 8.2 19.0 A | epsilon eta | 1 4.26  
 8.9 24.5 A | omicron eta | 2 2.90 6.30  
 9.2 7.3 F | 5204 nu 10 | 3 3.07 6.30 | 3.23  
 9.6 8.1 H | epsilon eta | 1 { 4.00 4.30 7.28 | 3.28  
 9.0 10.2 A | epsilon eta | 1 4.42  
 9.0 19.4 F5G | KAPPA 10 | 1 4.30  
 9.8 20.7 F | 5205 KAPPA 10 | 1 4.25  
 9.6 23.0 H | epsilon eta | 1 { 4.43 F

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Sept. 14, 1903

Plate B8570

9.15 P.M.

U. H. Cl.	Rem. L. K.	Int Br.	Photon Magn	Diff.
4.5 7.4 A	Omicron eta	2	3.29 6.60	3.31
4.0 9.2 A	nu eta	1	4.07	
4.2 9.9 A	iota eta	2	3.13 6.36	3.23
4.1 13.8 F	5200 KAPPA 10	1	4.30 7.61	3.31
4.1 18.2 H	epsilon eta	1	{ 4.48 F 7.76	3.28
4.7 23.6 Ma	KAPPA 10	2	{ 3.95 4.36 5.82	1.87
[[Is this not 5.5?]] 6.5 15.0 F   5101 nu 10   2 3.92				
6.6 10.1 H	KAPPA 10	1	{ 4.11 4.30	
6.2 16.1 F	5202 KAPPA 10	2	3.82	
6.1 16.4 K	KAPPA 12	2	{ 3.57 3.79 6.43	2.86
6.7 20.4 H	epsilon eta	1	{ 4.83 4.40	
6.0 2.0 F2G	KAPPA 10	1	4.24 7.31	3.07
8.0 7.9 F	5203 KAPPA 10	1	4.03	
8.3 10.8 Mb	KAPPA 10	2	{ 3.80 4.10 6.40	2.60
7.5 13.4 H	epsilon eta	1	{ 4.17 4.50	
7.1 14.1 G5K	KAPPA 10	2	{ 3.63 3.82 6.76	3.13
7.7 15.7 Ma?	epsilon eta	1	{ 4.48 F	
7.3 16.0 K	KAPPA 10	3	{ 3.26 3.78 6.14	2.88
8.6 20.3 H	epsilon eta	1	{ 4.40 F	
8.7 21.7 A	<del>Ma</del>		epsilon eta	1 4.10
[[Is this not 8.7?]] 6.7 23.5 A   omicron eta   2 3.39 7.05   3.66				
[[22.9?]] 8.2 19.0 A   epsilon eta   1 4.26				
8.9 24.5 A	omicron eta	2	2.90 6.30	
9.2 7.3 F	5204 nu 10	3	3.07 6.30	3.23
9.6 8.1 H	epsilon eta	1	{ 4.00 4.30 7.28	3.28
9.0 10.2 A	epsilon eta	1	4.42	
9.0 19.4 F5G	KAPPA 10	1	4.30	
9.8 20.7 F	5205 KAPPA 10	1	4.25	
9.6 23.0 H	epsilon eta	1	{ 4.43 F	

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[[table]]

|1875 approx. |C.P.D. Design. | 1875 R.A. |1875 Dec.|Magn.|R.A.

1900|Dec. 1900| |

|-----|

2^[[h]] 36^[[m]] -64° 52' -64 192|2^[[h]] 36^[[m]] 50.0^[[s]] -64° 49.2'|6.4|2

37.3| -64 43|50|

2 28 - 64 36|64 178|2 27 59.0|-64 35.9|7.5|

2 25 - 64 52|-64 174| 2 25 8.0|-64 51.6|6.4|2 25.8|- 64 45|50|

2 25 - 64 52|-64 174| 2 25 8.0|-64 51.6| 6.4|2 25.8|-64 45|50|

2 7 - 64 57|-64 156| 2 6 45.0|-64 56.8|7.8| 2 7.4|- 64 50|54|

1 46 - 64 59|-65 152|1 46 4.3|-65 0.4|8.2| 1 46.8|- 64 52|54|

1 21 - 65 0|65 130| 1 20 45.5|-65 1.4|7.5|1

21.7|- 64 53|50|

2 2 - 65 45|-65 165|2 1 15.5|-65 44.2|7.4|Correct if 5.5 intended?

2 26 - 66 6|-66 140|2 25 26.8|-66 7.3|8.2|

1 56 - 66 4|-66 124| 1 56 12.5|-66 3.5|7.4|

1 54 - 66 2|-66 123| 1 54 29.0|-66 2.1|7.4|55.2 - 65 55|50|

1 35 - 66 15|-66 106| 1 34 43.3|-66 14.5|7.6|

1 27 - 65 45|-65 135| 1 27 4.0|-65 45.8|7.7| 1 27.9|- 65 38|54|

2 37 - 66 41|-66 155|2 37 29.0|-66 39.0|7.6|

2 23 - 67 4|67 154|2 22 51.5|-67 3.5|8.0|2 23.4|

- 66 56|50|

2 10 - 66 45|-66 134|2 9 46.0|-66 44.3|7.9|

2 4 - 66 33|-66 130|2 3 52.0|-66 32.3|7.3| 2 4.5|- 66 25 |54|

1 58 - 66 58|-66 126| 1 58 1.0|66 57.1|8.5|

1 56 - 66 41|-66 125| 1 56 24.0|-66 40.4|7.4| 1 57.1|- 66 33|50|

1 34 - 67 12|-67 107| 1 34 20.4|-67 11.6|8.6|

1 27 - 67 8|-67 95| 1 27 6.0|-67

8.5|7.6|Cor|1 18 - 67 3|67 89| 1 17 37.5|-67 2.4|6.9|symbol-

|-67 88| 1 17 34.0|-67 6.1|8.4| 1 18.4|- 66 54|54|Correct if 8.7 intended?

1 24 - 67

4|-

6~~7~~154~~154~~99 x 2~~22~~20

51.5|-67 3.5|8.0|-66 4.7|8.1|Correct if 22.9 intended?

1 12 - 67 4|67 81| 1 12 43.0|-67 3.5|6.2| 1 13.6|- 66 55|50|

2 41 - 67 16|-67 181|2 41 17.0|-67 14.5| 6.6| 1

13.7|41.7|-

6~~6~~55~~55~~

8|50|

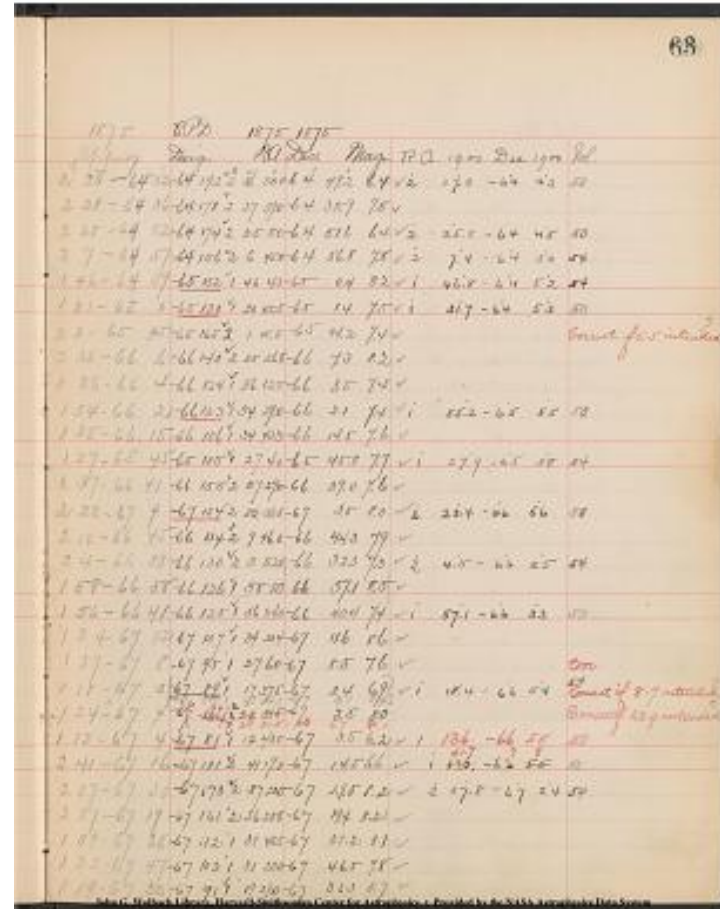
2 37 - 67 30|-67 173|2 37 23.0|-67|29.4|8.2|2 37.8|-67 24|54|

2 27 - 67 19|-67 161|2 26 28.8|-67 19.4|8.2|

1 39 - 67 28|-67 112| 1 38 48.5|-67 28.2|8.1|

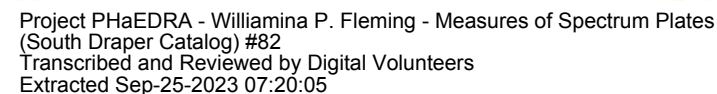
1 32 - 67 47|-67 102| 1 31 23.0|-67 46.5|7.8|

1 19 - 67 30|-67 91| 1 19 29.0|-67 31.3|8.7|



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13.6	23.7	F	52	13	K	10	3	2.13	4.96	2.83
------	------	---	----	----	---	----	---	------	------	------



65

[[table]]

|1875 approx. |C.P.D. Design. | 1875 R.A. |1875 Dec.|Magn.|R.A. 1900|  
Dec. 1900| |

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

2^[[h]] 49^[[m]] -68° 4' -68° 172|2^[[h]] 49^[[m]] 4.0^[[s]]|68° 2.1|7.1|2

49.5|-67 5|~~5~~|~~6~~|~~5~~|0|~~4~~|

2 45 - 67 48|-67 188|2 45 5.0|-67 47.9|7.6|

2 44 - 68 10|-68 169|2 43 37.5|-68 8.5|5.1|2 44.0|- 68 3|50|

2 35 - 67 52|-67 170|2 35 50.0|-67 50.4|6.8|

2 23 - 68 20|-68 144|2 23 9.2|-68 19.8|7.6|

2 18 - 68 15|-68 133|2 17 1.0|-68 15.8|8.0|

2 13 - 68 19|-68 128|2 12 52.6|-68 19.6|7.0|2 13.4|-68 13|50|

2 12 - 68 24|-68 126|2 11 38.6|-68 25.6|6.8|2 12.1|-68 19|50|

1 52 - 68 15|-68 101|1 51 47.2|-68 15.8|6.2|1 52.1|-68 9|50|

1 48 - 68 33|-68 96|1 49 25.3|-68 33.6|6.6|

1 37 - 68 18|-68 77|1 37 38.0|-68 17.7|8.1|

1 13 - 67 46|-67 84|1 13 35.6|-67 46.3|7.8|

1 12 - 68 6|68 47|1 12 12.3|-68 5.6|7.2|1 13.1|-  
67 58|54|

2 38 - 68 48|-68 161|2 37 41.0|-68 48.2|3.6|2 38.1|-68 42|50|

2 18 - 68 40|-68 134|2 17 23.0|-68 39.5|1.7|

2 3 - 68 54|-68 113|2 2 16.5|-68 53.9|8.7|

1 53 - 69 0|-69 87|1 52 55.0|-69 0.4|7.6|

1 25 - 68 48|-68 59|1 24 55.5|-68 49.2|7.9|

2 39 - 69 14|-69 140|2 39 58.4|-69 13.1|8.1|

2 27 - 69 10|-69 127|2 27 50.4|-69 9.7|8.6|

2 24 - 69 12|-69 121|2 24 14.4|-69 11.7|8.2|

2 19 - 69 15|-69 113|2 19 30.4|-69 13.8|3.6|2 20.0|-69 7|50|

2 42 - 69 42|69 142|2 41 49.7|-69 41.4|7.4|2 42.1|-69 35|54||69 143|2 41 52.9|-69 40.7|8.6|

2 39 - 69 45|-69 138|2 39 0.7|-69 45.9|6.8|2 39.3|-69 40|54|

2 13 - 70 0|70 136|2 13 35.2|-70 0.9|7.8|2 14.0

|- 69 54|54|

1 19 - 69 54|-69 55|1 18 55.3|-69 44.1|8.0|1 19.7|-69 36|54|

1 16 - 69 33|-69 53|1 15 47.3|-69 33.5|7.2|

1 11 - 69 32|-69 45|1 11 31.3|-69 32.4|5.2|1 12.4|-69 24|50|

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Sept. 14, 1903

Plate B8570

[[table]]

V. | H. | Cl. | Rem. | L. | K. | Int. | Br. | Photom Magn. | Diff. |

V.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photom Magn.	Diff.
13.6	23.9	H		E N 1	3.84	4.20			
14.6	8.1	A		E N 1	4.16	8.33	4.17		
14.3	10.9	MB		E N 1	4.30	F7.28	2.98		
14.2	16.8	H		E N 1	4.38	F			
14.6	17.8	H		E N 1	4.50	F			
14.9	17.9	H		E N 1	4.31	F			
15.4	8.8	H		E N 1	4.30	F			
15.6	10.2	H		E N 1	4.48	F			
15.4	11.4	A5F	5214	N 10 2	3.80				
15.8	13.0	A		E N 1	4.35				
15.8	15.3	K		K 10 2	3.74	4.13	6.88		
15.1	22.3	FIG		K 10 2	3.16				
16.3	7.4	A		E N 1	4.19				
16.8	9.3	K		K 10 2	3.57	4.07	6.69		
16.8	10.1	H		E N 1	4.30	F			
16.8	10.8	H		xi eta	1	4.32	F		
16.5	12.6	A		xi eta	1	4.17			
[[Ought this not be 13.8?]] 16.9 12.8 k   KAPPA 10   2 {3.62 4.00									
17.0	20.1	F	5215	KAPPA 10	2	3.98			
17.0	21.6	F	5216	KAPPA 10	2	4.07			
18.1	8.4	A2F	5217	nu 10	2	3.33	6.84		
18.4	9.1	F5G		KAPPA 10	1	4.05			
18.5	12.3	H		xi eta	1	4.40	F		
18.2	14.8	K		KAPPA 10	2	3.87	4.10		
18.3	16.3	A		xi eta	1	4.39			
18.8	20.7	G5K		KAPPA 10	2	3.89	4.12		
17.7	23.3	H		xi eta "	1	4.46	F		
19.9	6.1	A		lambda eta	3	2.03	5.52	3.49	
19.6	9.0	H		xi eta	1	4.10	4.50		

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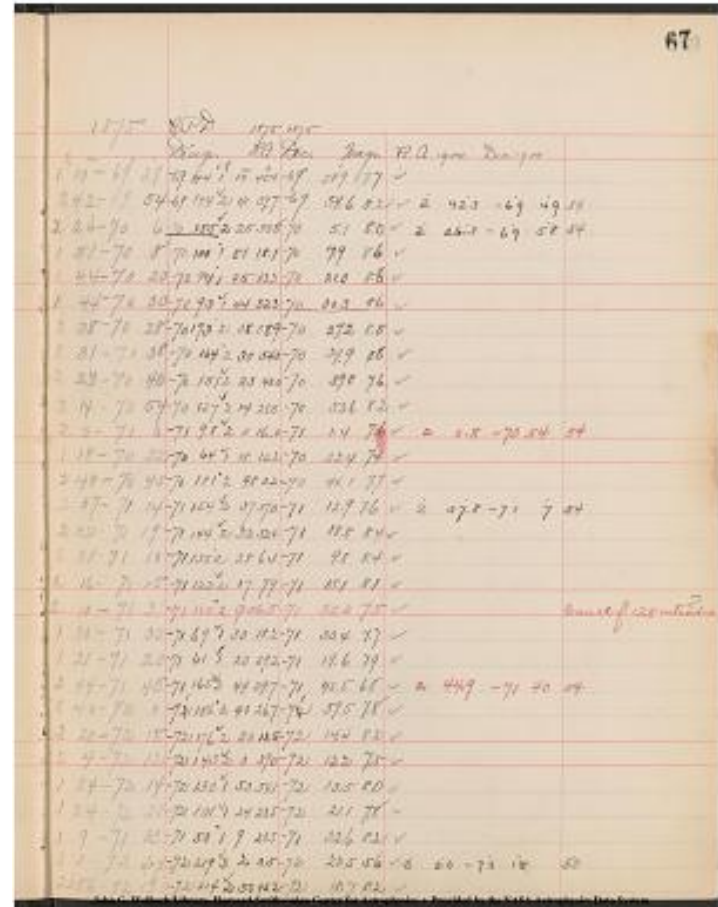
Sept. 14, 1903

Plate B8570

V.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photom Magn.	Diff.
13.6	23.9	H		E N 1	3.84	4.20			
14.6	8.1	A		E N 1	4.16	8.33	4.17		
14.3	10.9	MB		E N 1	4.30	F7.28	2.98		
14.2	16.8	H		E N 1	4.38	F			
14.6	17.8	H		E N 1	4.50	F			
14.9	17.9	H		E N 1	4.31	F			
15.4	8.8	H		E N 1	4.30	F			
15.6	10.2	H		E N 1	4.48	F			
15.4	11.4	A5F	5214	N 10 2	3.80				
15.8	13.0	A		E N 1	4.35				
15.8	15.3	K		K 10 2	3.74	4.13	6.88		
15.1	22.3	FIG		K 10 2	3.16				
16.3	7.4	A		E N 1	4.19				
16.8	9.3	K		K 10 2	3.57	4.07	6.69		
16.8	10.1	H		E N 1	4.30	F			
16.8	10.8	H		xi eta	1	4.32	F		
16.5	12.6	A		xi eta	1	4.17			
[[Ought this not be 13.8?]] 16.9 12.8 k   KAPPA 10   2 {3.62 4.00									
17.0	20.1	F	5215	KAPPA 10	2	3.98			
17.0	21.6	F	5216	KAPPA 10	2	4.07			
18.1	8.4	A2F	5217	nu 10	2	3.33	6.84		
18.4	9.1	F5G		KAPPA 10	1	4.05			
18.5	12.3	H		xi eta	1	4.40	F		
18.2	14.8	K		KAPPA 10	2	3.87	4.10		
18.3	16.3	A		xi eta	1	4.39			
18.8	20.7	G5K		KAPPA 10	2	3.89	4.12		
17.7	23.3	H		xi eta "	1	4.46	F		
19.9	6.1	A		lambda eta	3	2.03	5.52	3.49	
19.6	9.0	H		xi eta	1	4.10	4.50		

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates (South Draper Catalog) #82  
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[[table]]  
 1875 approx. [C.P.D. Design.] 1875 R.A. | 1875 Dec. | Magn. | R.A. 1900 |  
 Dec. 1900 |  
 1^[[h]] 10^[[m]] -69° 29' -69 44 | 1^[[h]] 10^[[m]] 45.4^[[s]] -69° 28.9' | 7.7 |  
 2 42 -69 54 | -69 144 | 2 41 57.7 | -69 54.7 | 8.2 | 2 42.3 | -69 49 | 54 |  
 2 26 -70 6 | 70 155 | 2 25 53.8 | -70 5.1 | 8.0 | 2  
 26.3 | -69 58 | 54 |  
 1 51 -70 8 | -70 100 | 1 51 18.1 | -70 7.9 | 8.6 |  
 1 44 -70 20 | -70 94 | 1 45 13.3 | -70 21.0 | 8.8 |  
 1 44 -70 30 | -70 93 | 1 44 32.3 | -70 30.3 | 8.3 |  
 2 38 -70 28 | -70 173 | 2 38 58.9 | -70 27.2 | 8.5 |  
 2 31 -70 38 | -70 164 | 2 30 54.3 | -70 39.9 | 8.8 |  
 2 23 -70 40 | -70 151 | 2 23 42.0 | -70 39.8 | 7.6 |  
 2 14 -70 54 | -70 137 | 2 14 21.0 | -70 53.6 | 8.2 |  
 2 0 -71 0 | -71 98 | 2 0 16.0 | -71 1.4 | 7.6 | 2 0.8 | -70 54 | 54 |  
 1 18 -70 22 | -70 64 | 1 18 12.2 | -70 22.4 | 7.4 |  
 2 48 -70 45 | -70 181 | 2 48 0.2 | -70 44.1 | 7.7 |  
 2 37 -71 14 | -71 154 | 2 37 37.0 | -71 12.9 | 7.6 | 2 37.8 | -71 7 | 54 |  
 2 32 -71 19 | -71 144 | 2 32 32.4 | -71 18.8 | 8.4 |  
 2 28 -71 10 | -71 135 | 2 28 6.4 | -71 9.8 | 8.4 |  
 2 16 -71 15 | -71 122 | 2 17 7.9 | -71 15.1 | 8.1 |  
 2 10 -71 31 | -71 110 | 2 9 56.6 | -71 32.0 | 7.5 |  
 1 30 -71 30 | -71 69 | 1 30 18.2 | -71 30.4 | 7.7 |  
 2 44 -71 45 | -71 165 | 2 44 39.7 | -71 45.5 | 6.8 | 2 44.9 | -71 40 | 54 |  
 2 40 -72 0 | -71 ~~156~~ | 2 40 26.7 | -72  
 59.5 | 7.8 |  
 2 20 -72 15 | -72 176 | 2 20 13.5 | -72 14.4 | 8.2 |  
 2 4 -72 12 | -72 143 | 2 3 39.0 | -72 122 | 7.5 |  
 1 54 -72 14 | -72 130 | 1 53 54.1 | -72 13.5 | 8.0 |  
 1 24 -72 20 | -72 101 | 1 24 23.5 | -72 21.1 | 7.8 |  
 1 9 -71 33 | -71 50 | 1 9 20.5 | -71 32.6 | 8.2 |  
 3 2 -72 24 | -72 219 | 3 2 0.5 | -72 23.5 | 5.6 | 3 2.0 | -72 18 | 50 |  
 2 56 -72 19 | -72 214 | 2 55 45.2 | -72 18.7 | 8.2 |



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Plate B8570

[[10 columned table]]

V. | H. | Cl. | Rem. | L. | K. | Int. | Br. | Photom Magn | Diff

V.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photom Magn	Diff
20.0	10.6	F2G	K	10	3	29	6.96	3.67	
19.7	12.5	H	E	n	1	{4.08, 4.35}			
20.0	14.8	H	E	n	2	<del>{4.40, 4.40}</del>			
19.9	17.3	A	i	n	2	{3.47}			
19.7	24.2	H	E	n	1	{3.99, 4.24}	7.45		
20.7	10.1	A	E	n	1	{4.30}			
20.2	10.6	F5218	K	10	2	{4.08}			
20.5	10.7	F2G	K	10	2	{3.92}			
20.1	21.1	A8F	5219	E	10	2	{3.81}		
21.0	21.5	F5220	K	10	2	{3.78}			
21.1	10.0	F2G	K	10	1	{4.11}			
21.7	11.3	A	E	n	1	{4.31}			
21.7	12.7	H	E	n	1	{4.38, F}			
21.7	20.0	H	E	n	1	{4.40, F}			
21.0	20.6	A	E	n	1	{4.40}			
21.6	21.3	A	E	n	1	{4.45}			
21.8	22.9	A	n	n	2	{3.48, 7.18}			
21.1	23.8	A	E	n	1	{4.40, 8.18}			
21.7	24.4	H	E	n	1	{4.40, F}	8.03		
22.8	7.9	A	E	n	1	{4.19}			
22.3	12.4	K	12	3	{3.17, 3.53}	6.00	2.83		
22.6	16.9	A	E	n	1	{4.28}			
Two spectra superposed 22.2 17.7 F2G  10 2 3.79									
23.1	16.4	H	E	n	1	{4.22, F}			
23.3	8.8	H	E	n	1	{4.12, 4.40}			
23.3	10.9	A	n	E	2	{3.72}			
23.2	14.0	A	E	n	1	{4.17}			
24.0	14.0	G5K	K	10	2	{3.82, 4.21}	7.28		
23.9	15.3	Ma	E	n	1	{4.07, 4.45}	7.04	2.97	

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Sept. 14, 1903

Plate B8570

V.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photom Magn	Diff
20.0	10.6	F2G	K	10	3	29	6.96	3.67	
19.7	12.5	H	E	n	1	{4.08, 4.35}			
20.0	14.8	H	E	n	2	<del>{4.40, 4.40}</del>			
19.9	17.3	A	i	n	2	{3.47}			
19.7	24.2	H	E	n	1	{3.99, 4.24}	7.45		
20.7	10.1	A	E	n	1	{4.30}			
20.2	10.6	F5218	K	10	2	{4.08}			
20.5	10.7	F2G	K	10	2	{3.92}			
20.1	21.1	A8F	5219	E	10	2	{3.81}		
21.0	21.5	F5220	K	10	2	{3.78}			
21.1	10.0	F2G	K	10	1	{4.11}			
21.7	11.3	A	E	n	1	{4.31}			
21.7	12.7	H	E	n	1	{4.38, F}			
21.7	20.0	H	E	n	1	{4.40, F}			
21.0	20.6	A	E	n	1	{4.40}			
21.6	21.3	A	E	n	1	{4.45}			
21.8	22.9	A	n	n	2	{3.48, 7.18}			
21.1	23.8	A	E	n	1	{4.40, 8.18}			
21.7	24.4	H	E	n	1	{4.40, F}	8.03		
22.8	7.9	A	E	n	1	{4.19}			
22.3	12.4	K	12	3	{3.17, 3.53}	6.00	2.83		
22.6	16.9	A	E	n	1	{4.28}			
Two spectra superposed 22.2 17.7 F2G  10 2 3.79									
23.1	16.4	H	E	n	1	{4.22, F}			
23.3	8.8	H	E	n	1	{4.12, 4.40}			
23.3	10.9	A	n	E	2	{3.72}			
23.2	14.0	A	E	n	1	{4.17}			
24.0	14.0	G5K	K	10	2	{3.82, 4.21}	7.28		
23.9	15.3	Ma	E	n	1	{4.07, 4.45}	7.04	2.97	

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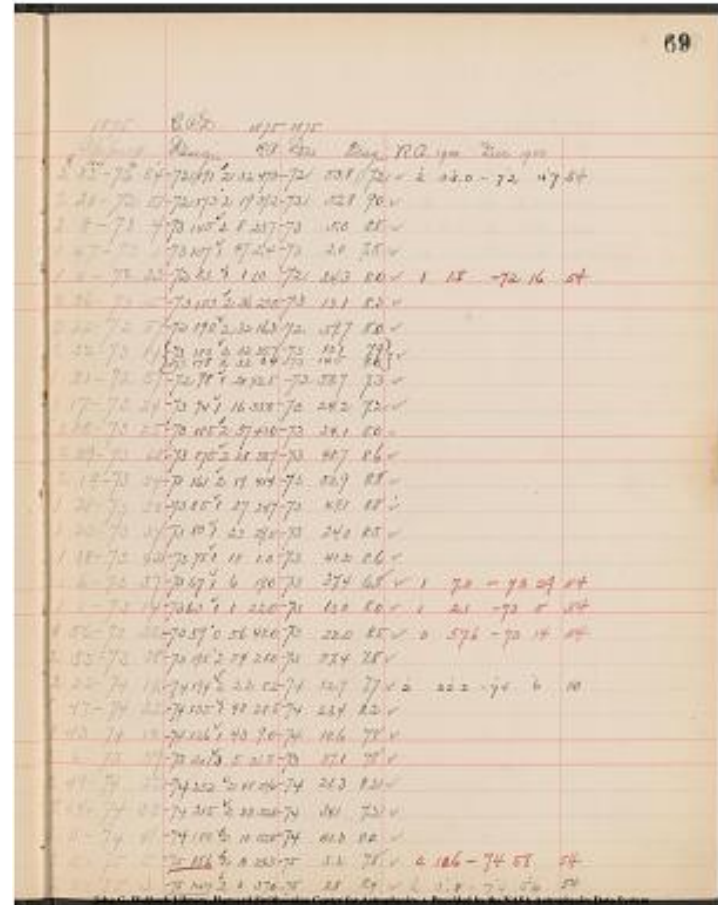


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[[table]]

1875 approx. | C.P.D. Design. 1875 R.A. | 1875 Dec. Magn. | R.A. 1900  
Dec. 1900 |

1875 approx.	C.P.D. Design.	1875 R.A.	1875 Dec.	Magn.	R.A. 1900	Dec. 1900
2 <sup>h</sup> 33 <sup>m</sup> 54 <sup>s</sup>	-72° 19' 23"	187 2 32	47.3	-72 53.8		
2 20 -72 51	-72 173 2 19	39.2	-72 52.8	9.0		
2 8 -73 4	-73 145 2 8	23.7	-73 5.0	8.8		
1 47 -73 1	-73 107 1 47	2.4	-73 2.0	7.5		
1 0 -72 23	-72 83 1 11.0	-72 24.3	8.0	1. 1.8	-72 16	54
2 36 -73 15	-73 183 2 36	23.0	-73 13.1	8.3		
2 32 -72 59	-72 190 2 32	16.3	-72 59.7	8.0		
2 32 -73 14	-73 173 180/178	2/2 32/32	35.7/8.4	-73/-73	13.1/14.5	7.0/9.0
1 21 -72 57	-72 98 1 20	42.5	-72 58.7	7.3		
1 17 -73 24	-73 74 1 16	55.0	-73 24.2	7.2		
2 38 -73 25	-73 185 2 37	43.0	-73 24.1	8.0		
2 29 -73 48	-73 175 2 28	58.7	-73 48.7	8.6		
2 19 -73 54	-73 161 2 19	414	-73 52.9	8.8		
1 28 -73 50	-73 85 1 27	24.7	-73 49.1	8.8		
1 23 -73 24	-73 80 1 23	29.5	-73 24.0	8.5		
1 18 -73 42	-73 751 18 1.0	-73 41.2	8.6			
1 6 -73 37	-73 67 1 6	19.0	-73 37.4	6.8	1 7.0	-73 29   54
1 1 -73 14	-73 63 1 1	22.0	-73 22.0	8.5	0 57.6	-73 14   54
2 55 -73 58	-73 195 2 54	28.0	-73 57.4	7.8		
2 22 -74 14	-74 194 2 22	8.2	-74 12.7	7.7	2 22.2	-74 6   50
1 47 -74 22	-74 135 1 48	28.5	-74 23.4	8.2		
1 43 -74 10	-74 126 1 43	9.0	-74 10.6	7.8		
3 6 -73 59	-73 201 3 5	51.5	-73 57.1	7.8		
2 34 -74 33	-74 215 2 33	520	-74 34.1	7.2		
2 11 -74 41	-74 180 2 10	52.0	-74 40.3	8.0		
2 10 -75 5	-75 156 2 10	24.3	-75 5.2	7.8	2 10.6	-74 58   54
2 0 -75 3	-75 144 2 0	37.9=0	-75 28.8	8.4	2 0.8	-74 56   54



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Plate B8570

[[table]]

|V.|H.|Cl.|Rem.|L.|K|Int.|Br.|Photom.|Magn.|Diff.|

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

23.6|22.2|F|5221|K|10|2|4.00

24.0|12.3|H| |E|n|1|{4.10, 4.30|7.97|3.87

24.8|6.8|H| |E|n|1|{3.88, 4.28|6.9|~~6.9~~]

7|~~7~~|2|3.09

24.0|10.1|H| |E|n|1|F, {4.50|8.20|3.70

24.5|17.3|F5G| |K|10|1|4.07

9.15P.M

9.50P.M.

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Sept. 14, 1903										
Plate B8570										
V.	H.	Cl.	Rem.	L.	K	Int.	Br.	Photom.	Magn.	Diff.
23.6	22.2	F	5221	K	10	2	4.00			
24.0	12.3	H		E	n	1	{4.10, 4.30	7.97	3.87	
24.8	6.8	H		E	n	1	{3.88, 4.28	6.9	6.9	
7										
24.0	10.1	H		E	n	1	F, {4.50, 8.20	3.70		
24.5	17.3	F5G		K	10	1	4.07			
9.15 P.M.										
9.50 P.M.										

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[[4 column table]]

1875 Approx|C.P.D. Design| R.A. 1875|Dec.1875| Magn.|R.A. 1900  
Dec 1900|

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

1^[[h]] 8^[[m]]-74° 3'5|-74 88| 1 8 43.0|-74 34.3 |7.3| |

2 24-75 0|-75 172||2 23 44.5|-75 0.1 |8.0|2 23.8-  
74 53|543 6-74 48|-74 239| 3 5 51.0|-74 48.1 |7.9|☒ 3 5.6-74 42 |54

2 41-74 52|-74 226| 2 40 57.5|-74 51.2 |8.7| 2 41.0-74 45 |54

1 45-75 22|75 123| 1 44 50.8|-75 21.9 |8.2| |

1875 Approx	C.P.D. Design	R.A. 1875	Dec.1875	Magn.	R.A. 1900	Dec 1900
1^[[h]] 8^[[m]]-74° 3'5	-74 88	1 8 43.0	-74 34.3	7.3		
2 24-75 0	<u>-75 172</u>	2 23 44.5	-75 0.1	8.0	2 23.8-74 53	54
3 6-74 48	-74 239	3 5 51.0	-74 48.1	7.9	<input checked="" type="checkbox"/> 3 5.6-74 42	54
2 41-74 52	-74 226	2 40 57.5	-74 51.2	8.7	2 41.0-74 45	54
1 45-75 22	75 123	1 44 50.8	-75 21.9	8.2		

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Plate B20 133 Sept. 16, 8.20 P.M.

9.50 P.M.

[[table]]

[V. H. Cl. | Rem. L. K. | Int. Br. | Photon. Magn. | Diff. |

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

5.6 9.5 F | 5222 K 10 | 1 4.13 | 7.14 | 3.01

5.0 | 12.5 A | n N | 2 4.20 | 7.26 | 3.06

6.0 18.4 A | E N | 1 4.50

6.5 6.1 F5G | K 10 | 1 4.48 | 6.76 | 2.28

7.4 8.0 F | 5223 K 10 | 1 4.41

7.1 14.9 F | 5224 K 10 | 2 4.34

7.2 20.9 A | E N | 1 4.50

8.5 6.2 A | E N | 1 4.43

8.2 13.4 H | K 10 | 2 {4.20 4.50} | 6.27

8.6 19.3 A | O 3 | 2 3.80

9.4 9.5 K | K 12 | 3 {2.40 3.10} | 4.78 | 2.38

13.8? | 10.9 12.8 F | 5225 K 10 | 2 3.73 | 6.78

10.2 14.3 A | E N | 2 4.03

10.9 15.0 F | 5226 K 10 | 1 4.42

10.7 17.8 F | 5226a E N | 1 4.28

11.0 18.3 A | E N | 1 4.50

11.2 9.7 A | E N | 1 4.42

11.7 11.2 F2G | K 10 | 1 4.41

11.1 11.3 A | O N | 2 4.13

12.0 12.3 A | E N | 1 4.20

11.8 14.7 F2G | K 10 | 2 3.81

12.5 7.4 A5F | 5227 O 10 | 2 2.85 | 6.15 | 3.30

12.1 8.9 H | E N | 1 {4.50 F} | ~~6.15~~

12.3 9.1 H | E N | 1 {4.40 F}

12.7 10.7 H | E N | 1 {4.45 F}

12.5 16.2 A | n N | 2 4.12

13.0 18.7 H | E N | 1 {4.40 F}

12.5 19.5 A | E N | 2 4.21

12.9 21.6 F | 5228 K 10 | 1 4.40

Sept. 14, 1903									
Plate B20 133 Sept. 16, 8.20 P.M.									
V.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photon. Magn.	Diff.
5.6	9.5	F	5222	K	10	1	4.13	7.14	3.01
5.0	12.5	A	n	N	2	4.20	7.26	3.06	
6.0	18.4	A	E	N	1	4.50			
6.5	6.1	F5G	K	10	1	4.48	6.76	2.28	
7.4	8.0	F	5223	K	10	1	4.41		
7.1	14.9	F	5224	K	10	2	4.34		
7.2	20.9	A	E	N	1	4.50			
8.5	6.2	A	E	N	1	4.43			
8.2	13.4	H	K	10	2	{4.20 4.50}	6.27		
8.6	19.3	A	O	3	2	3.80			
9.4	9.5	K	K	12	3	{2.40 3.10}	4.78	2.38	
13.8?	10.9	12.8	F	5225	K	10	2	3.73	6.78
10.2	14.3	A	E	N	2	4.03			
10.9	15.0	F	5226	K	10	1	4.42		
10.7	17.8	F	5226a	E	N	1	4.28		
11.0	18.3	A	E	N	1	4.50			
11.2	9.7	A	E	N	1	4.42			
11.7	11.2	F2G	K	10	1	4.41			
11.1	11.3	A	O	N	2	4.13			
12.0	12.3	A	E	N	1	4.20			
11.8	14.7	F2G	K	10	2	3.81			
12.5	7.4	A5F	5227	O	10	2	2.85	6.15	3.30
12.1	8.9	H	E	N	1	{4.50 F}	<del>6.15</del>		
12.3	9.1	H	E	N	1	{4.40 F}			
12.7	10.7	H	E	N	1	{4.45 F}			
12.5	16.2	A	n	N	2	4.12			
13.0	18.7	H	E	N	1	{4.40 F}			
12.5	19.5	A	E	N	2	4.21			
12.9	21.6	F	5228	K	10	1	4.40		

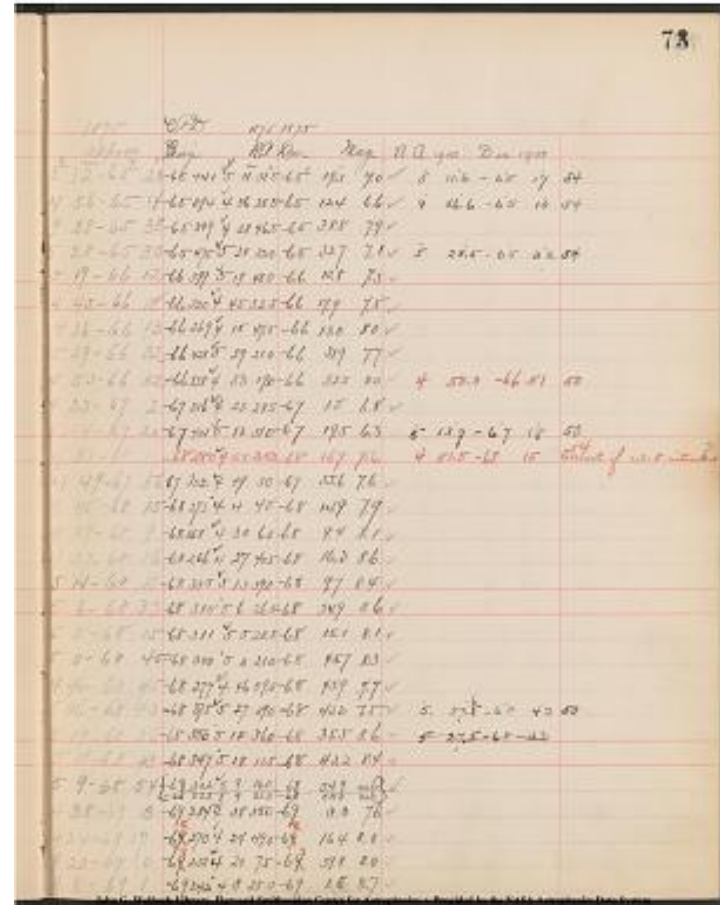
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[[table]]

1875 Approx|CPD Design R.A 1875|Dec. 1875 Magn.|R.A. 1900 Dec.  
1900|

5	12-65	20	-65	441	5	11	31.5	-65	19.3	7.0	5	11.6	-65	17	54	
4	56-65	14	65	394	4	56	28.5	-65	12.4	6.6	4	56.6	-65	10	54	
4	28-65	38	-65	349	4	28	46.5	-65	38.8	7.9						
5	28-65	30	-65	475	5	28	22.0	-65	32.7	7.1	[[check]]	5	28.5	-65	32	54
5	19-66	12	-66	399	5	19	48.0	-66	10.8	7.3	[[check]]					
4	45-66	18	-66	320	4	45	32.5	-66	17.9	7.5	[[check]]					
4	16-66	13	-66	269	4	15	47.5	-66	13.0	8.0	[[check]]					
5	29-66	32	-66	421	5	29	21.0	-66	31.9	7.7	[[check]]					
4	53-66	52	-66	338	4	53	19.0	-66	52.5	8.0	[[check]]	4	53.3	-66	51	50
4	23-67	2	-67	316	4	23	28.5	-67	1.5	6.8	[[check]]					
5	14-67	20	-67	401	5	13	51.0	-67	19.5	6.3	[[check]]	5	13.9	-67	18	50
4	51-68	17	-68	280	4	51	3.52	-68	16.7	7.6	4	5.15	-68	15	54	Correct if 13.8 intended
4	49-67	56	-67	352	4	49	3.0	-67	55.6	7.6	[[check]]					
4	45-68	15	-68	272	4	4	45	-68	14.9	7.9	[[check]]					
4	29-68	9	-68	268	4	30	6.0	-68	9.4	8.1	[[check]]					
4	27-68	16	-68	266	4	27	40.5	-68	16.3	8.6	[[check]]					
5	14-68	11	-68	335	5	13	59.0	-68	9.4	8.4	[[check]]					
5	6-68	33	-68	315	5	6	26.5	-68	34.9	8.6	[[check]]					
5	5-68	15	-68	311	5	5	28.5	-68	15.1	8.1	[[check]]					
5	0-68	45	-68	300	5	0	21.0	-68	45.7	8.3	[[check]]					
4	46-68	45	-68	277	4	46	59.5	-68	45.9	7.7	[[check]]					
5	26-68	43	-68	375	5	27	39.0	-68	43.2	7.5	[[check]]	5	27.6	-68	42	50
5	19-68	36	-68	350	5	18	36.0	-68	35.5	8.6	[[plus]]					
5	18-68	43	-68	347	5	18	11.5	-68	43.2	8.4	[[plus]]					
5	9-68	54	-68	322	5	9	16.1	-68	54.9	neb	[[check]]					
5	9-68	54	-68	323	5	9	21.0	-68	55.0	neb	[[check]]					
4	38-69	3	-69	284	4	38	35.0	-69	3.3	7.6	[[check]]					
4	24-69	17	-68	273	4	24	49.0	-68	16.4	8.0	[[check]]					
4	20-69	10	-68	253	4	20	7.5	-68	59.8	8.0	[[check]]					
4	8-69	1	-69	242	4	8	28.0	-69	1.6	8.7	[[check]]					



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Plate B 20 33

[[table]]

[V.] [H.] [Cl.] [Rem.] [L.] [K.] [Int.] [Br.] [Photon.] [Magn.] [Diff.]

13.8	12.1	F	5229	K	10	1	4.31	8.32	4.01
13.5	12.3	A		E	N	1	4.50		
13.6	13.7	A		E	N	1	4.30		
13.8	18.5	F	5230	K	10	1	4.24		
13.9	19.4	H		E	N	1	F, {4.50	7.84	3.34
13.3	19.5	H		E	N	1	{4.50, F}		
13.5	22.6	H		E	N	1	{4.35, F}	7.52	3.17
14.0	10.3	H		E	N	1	{4.50, F}		
14.3	10.7	F	5231	K	10	1	4.40	8.86	
14.4	14.0	H		E	N	1	{4.35, F	7.76	3.41
14.2	17.8	F	5232	K	10	1	4.35	8.42	4.07
14.9	18.2	F2G		K	10	2	4.31	7.92	3.61
14.3	19.1	G		K	10	1	4.37	8.56	4.19
14.6	19.9	G5K		K	10	2	{4.00, 4.30}	7.42	3.42
15.9	9.7	A		E	N	1	4.40		
16.0	12.3	F		K	10	2	3.96		
15.3	14.3	H		E	N	1	{4.47, F}		
15.8	19.1	H		E	N	1	{4.47, F}		
16.0	20.3	A8F	5233	N	10	2	3.28	7.03	3.75
15.1	21.6	A5F	5234	E	10	2	3.84	7.67	3.83
16.0	22.1	A		E	N	1	4.26		
15.9	24.7	A		E	N	2	3.47	7.56	4.09
17.0	7.7	A		E	N	2	4.10		
16.5	13.0	K		K	10	2	{3.92, 4.27}		
17.0	14.	<del>[[[strikethrough]]]</del>	<del>3</del>	<del>[[[strikethrough]]]</del>	<del>H</del>				
		<del>E</del>	<del>N</del>	<del>1</del>	<del>[[[strikethrough]]]</del>	<del>2</del>	<del>[[[strikethrough]]]</del>	<del>{4.30, F}</del>	
16.5	15.2	A		V	N	3	1.88	5.69	3.81
16.8	24.3	H		E	N	1	{4.28, F}		
17.7	6.8	A		E	N	1	4.33		
17.2	7.4	F	5235	K	10	1	4.32		

10.30

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Sept. 14, 1903

Plate B 20 33

V.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photon.	Magn.	Diff.
13.8	12.1	F	5229	K	10	1	4.31	8.32	4.01	
13.5	12.3	A		E	N	1	4.50			
13.6	13.7	A		E	N	1	4.30			
13.8	18.5	F	5230	K	10	1	4.24			
13.9	19.4	H		E	N	1	F, {4.50	7.84	3.34	
13.3	19.5	H		E	N	1	{4.50, F}			
13.5	22.6	H		E	N	1	{4.35, F}	7.52	3.17	
14.0	10.3	H		E	N	1	{4.50, F}			
14.3	10.7	F	5231	K	10	1	4.40	8.86		
14.4	14.0	H		E	N	1	{4.35, F	7.76	3.41	
14.2	17.8	F	5232	K	10	1	4.35	8.42	4.07	
14.9	18.2	F2G		K	10	2	4.31	7.92	3.61	
14.3	19.1	G		K	10	1	4.37	8.56	4.19	
14.6	19.9	G5K		K	10	2	{4.00, 4.30}	7.42	3.42	
15.9	9.7	A		E	N	1	4.40			
16.0	12.3	F		K	10	2	3.96			
15.3	14.3	H		E	N	1	{4.47, F}			
15.8	19.1	H		E	N	1	{4.47, F}			
16.0	20.3	A8F	5233	N	10	2	3.28	7.03	3.75	
15.1	21.6	A5F	5234	E	10	2	3.84	7.67	3.83	
16.0	22.1	A		E	N	1	4.26			
15.9	24.7	A		E	N	2	3.47	7.56	4.09	
17.0	7.7	A		E	N	2	4.10			
16.5	13.0	K		K	10	2	{3.92, 4.27}			
17.0	14.	<del>[[[strikethrough]]]</del>	<del>3</del>	<del>[[[strikethrough]]]</del>	<del>H</del>					
		<del>E</del>	<del>N</del>	<del>1</del>	<del>[[[strikethrough]]]</del>	<del>2</del>	<del>[[[strikethrough]]]</del>	<del>{4.30, F}</del>		
16.5	15.2	A		V	N	3	1.88	5.69	3.81	
16.8	24.3	H		E	N	1	{4.28, F}			
17.7	6.8	A		E	N	1	4.33			
17.2	7.4	F	5235	K	10	1	4.32			

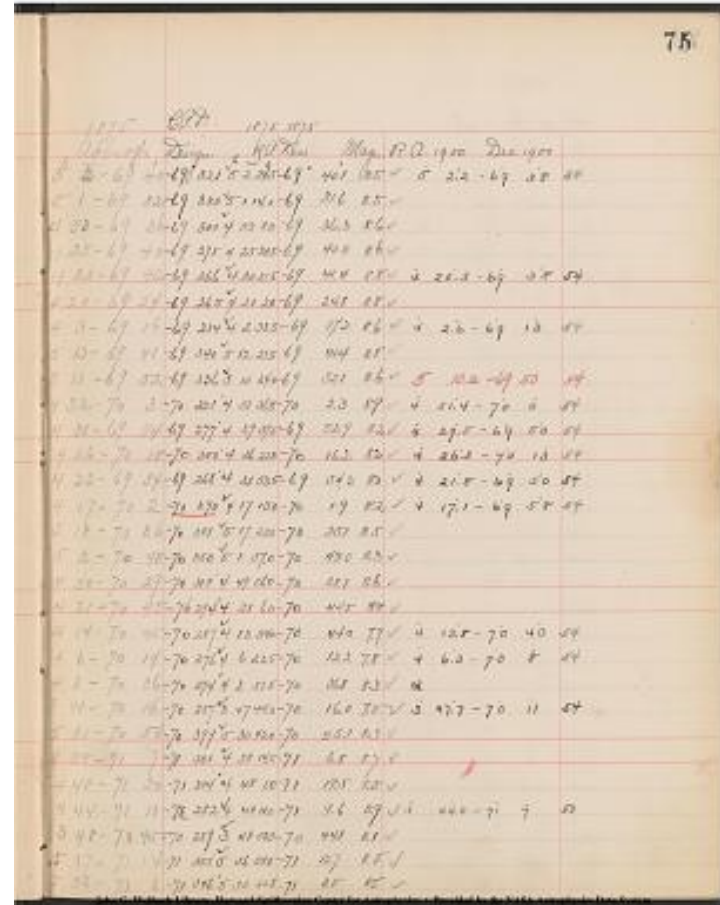
Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates (South Draper Catalog) #82  
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[[table]]

|1875 approx. |C.P.D. Design. | 1875 R.A. |1875 Dec. | Magn. | R.A.  
1900 | Dec. 1900 | |

1875 approx.	C.P.D. Design.	1875 R.A.	1875 Dec.	Magn.	R.A. 1900	Dec. 1900
5 2 -69 40 -69 32	5 2 245 -69 40.1	8.5	5 2.2 -69 38	54		
5 1 -69 32 -69 320	5 114.0 -69 31.6	8.5				
4 53-69 36 -69 300	4 53  8.0 -69					
4 25-69 40 -69 275	4 25 30.5 -69 40.0	8.6				
4 20-69 42 -69 266	4 2021.5 -69 41.4	8.8	4 20.3 -69 38	54		
4 20-69 24 -69 265	4 202.0 -69 17.2	8.6	4 2.6 -69 13	54		
4 3-69 16 -69 234	4 233.5 -69 41.4	8.8				
5 13-69 41 -69 340	5 12 23.5 -69 41.4	8.8				
5 11-69 52 -69 336	5 10 24.0 -69 52.1	8.6	5 10.2 -69 50	54		
4 52-70 3 -70 321	4 51 36.8 -70 2.3	8.9	4 51.4 -70 0	54		
4 30-69 54 -69 277	4 29 37.5 -69 52.9	8.2	4 29.5 -69 50	54		
4 26-70 18 -70 300	4 26 22.0 -70 16.2	8.2	4 26.3 -70 13	54		
4 22-69 54 -69 268	4 21 53.5 -69 54.3	8.3	4 21.8 -69 50	54		
4 17-70 2 -70 290	4 17 13.0 -70 1.9	8.2	4 17.1 -69 58	54		
5 18-70 36 -70 381	5 17 22.0 -70 35.1	8.5				
5 2-70 48 -70 350	5 1 57.0 -70 48.0	8.3				
4 50-70 29 -70 318	4 49 56.0 -70 44.5	8.8				
4 21-70 45 -70 294	4 21 60 -70 44.0	7.7				
4 14-70 45 -70 287	4 13 54.0 -70 44.0	7.7	4 13.8 -70 40	54		
4 6-70 14 -70 276	4 6 23.5 -70 12.2	7.8	4 6.3 -70 8	54		
4 3-70 36 -70 274	4 2 51.5 -70 36.8	8.3				
3 48-70 16 -70 257	3 4744.0 -70 16.0	7.5	3 47.7 -70 11	54		
5 31-70 56 -70 399	5 3042.0 -70 55.1	8.3				
4 58-71 7 -71 301	4 58 14.5 -71 6.8	8.7				
4 48-71 20 -71 284	4 48 1.0 -71 19.5	8.5				
4 44-71 10 -71 282	4 4418.0 -71 9.6	5.9	4 44.0 -71 7	50		
3 48-70 45 -70 259	3 48 50.0 -70 8.1					
5 37-71 14 -71 355	5 36 58.0 -71 12.7	8.5				
5 32-71 2 -71 346	5 32 22.5 -71 0.5	8.5				



Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
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8.00 P.M. Plate B 201 33

[[9 columned table]]

U | H | Lel | Rem. L | K | Int. | Br. | Photom. Magu. | Diff. |

[[checkmark]] 17.3 11.3 H | xi eta | 1 {4.20/F |  
 [[checkmark]] 17.3 12.1 K | 12 | 3 {2.57/2.97 5.30 | 2.73 |  
 [[checkmark]] 17.7 15.3 G | KAPPA 10 | 1 4.23 | | |  
 [[checkmark]] 17.7 15.7 G | KAPPA 10 | 1 4.25 | | |  
 17.8? | 15.8 22.0 A | omicron eta | 2 3.00 6.72 | 3.72 |

[[checkmark]] 18.1 9.0 A | nu eta | 2 3.74 | |

[[checkmark]] 18.1 9.3 A | xi eta | 1 4.36 | |  
 [[checkmark]] 18.0 9.7 H | xi eta | 1 {4.33/F | |  
 [[checkmark]] 19.0 11.0 H | xi eta | 1 {4.38/F | |  
 [[checkmark]] 18.5 12.2 H | xi eta | 1 {4.40/F | |  
 is this not 19.2? [[checkmark]] 19.0 18.2 H | kappa 10 | {4.20/4.50 | |

[[checkmark]] 19.7 9.1 A | nu eta | 2 3.85 ~~[[strikethrough]] 6.18 | 2.33~~  
~~[[strikethrough]]~~ |

[[checkmark]] 19.5 13.6 F15G | ~~[[strikethrough]] Kappa~~ ~~[[strikethrough]]~~  
 10 | 2 2.93 6.18 | 2.33 |

[[checkmark]] 19.7 16.0 H | xi eta | 1 {4.40/F | |  
 [[checkmark]] 19.4 24.2 A | iota eta | 3 2.71 6.54 | 3.83 |  
 [[checkmark]] 20.8 11.7 A | Kappa 1 | 3 2.67 6.25 | 3.58 |  
 [[checkmark]] 20.2 13.6 A | nu 3 | 2 3.71 7.18 | 3.47 |

[[checkmark]] 20.7 13.8 F | 5236 Kappa 10 | 1 4.20 | |

[[checkmark]] 20.2 16.4 A | iota 4 | 2 3.30 6.98 | 3.68 |  
 [[checkmark]] 20.1 17.5 H | Kappa 10 | 1 {4.20/F | |  
 [[checkmark]] 20.8 19.6 F | 5237 Kappa 10 | 1 3.87 |  
 [[checkmark]] 21.2 5.6 H | Kappa 10 | 2 {3.58/4.14 6.51 | 2.93 |  
 [[checkmark]] 21.0 7.9 A | xi eta | 1 4.30 | |

[[checkmark]] 22.0 11.8 H | xi eta | 1 {4.32/F | |

[[checkmark]] 21.1 16.4 K | Kappa 10 | 2 {3.82/4.20 6.72 | 2.90 |  
 22.8 7.5 F ~~[[strikethrough]] K~~ ~~[[strikethrough]]~~ | 5238 Kappa 10 | 2  
 3.68 6.74 | |  
 22.0 10.5 ~~[[strikethrough]] MA~~ ~~[[strikethrough]]~~ | omicron eta | 2 3.93  
 6.56 | 3.63 |  
 22.8 7.8 Ma | xi eta | 2 {3.62/4.12 5.61 | 1.99 |  
 22.5 8.9 H | xi eta | 1 {4.11/F | |  
 22.6 9.6 H | xi eta | 1 {4.09 F | |

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Plate B 201 33

U	H	Lel	Rem. L	K	Int.	Br.	Photom.	Magu.	Diff.
17.3	11.3	H		xi	eta		1	{4.20/F	
17.3	12.1	K		12		3	{2.57/2.97 5.30	2.73	
17.7	15.3	G		KAPPA	10		1	4.23	
17.7	15.7	G		KAPPA	10		1	4.25	
17.8?	15.8	22.0	A	omicron	eta		2	3.00 6.72	3.72
18.1	9.0	A		nu	eta		2	3.74	
18.1	9.3	A		xi	eta		1	4.36	
18.0	9.7	H		xi	eta		1	{4.33/F	
19.0	11.0	H		xi	eta		1	{4.38/F	
18.5	12.2	H		xi	eta		1	{4.40/F	
19.7	9.1	A		nu	eta		2	3.85	<del>[[strikethrough]] 6.18   2.33</del>
19.5	13.6	F15G		<del>[[strikethrough]] Kappa</del>	<del>[[strikethrough]]</del>		10	2 2.93 6.18   2.33	
19.7	16.0	H		xi	eta		1	{4.40/F	
19.4	24.2	A		iota	eta		3	2.71 6.54   3.83	
20.8	11.7	A		Kappa	1		3	2.67 6.25   3.58	
20.2	13.6	A		nu	3		2	3.71 7.18   3.47	
20.7	13.8	F		5236 Kappa	10		1	4.20	
20.2	16.4	A		iota	4		2	3.30 6.98   3.68	
20.1	17.5	H		Kappa	10		1	{4.20/F	
20.8	19.6	F		5237 Kappa	10		1	3.87	
21.2	5.6	H		Kappa	10		2	{3.58/4.14 6.51   2.93	
21.0	7.9	A		xi	eta		1	4.30	
22.0	11.8	H		xi	eta		1	{4.32/F	
21.1	16.4	K		Kappa	10		2	{3.82/4.20 6.72   2.90	
22.8	7.5	F		<del>[[strikethrough]] K</del>	<del>[[strikethrough]]</del>		5238 Kappa	10   2	3.68 6.74
22.0	10.5	<del>[[strikethrough]] MA</del>		<del>[[strikethrough]]</del>			omicron eta	2 3.93	6.56   3.63
22.8	7.8	Ma		xi	eta		2	{3.62/4.12 5.61   1.99	
22.5	8.9	H		xi	eta		1	{4.11/F	
22.6	9.6	H		xi	eta		1	{4.09 F	

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
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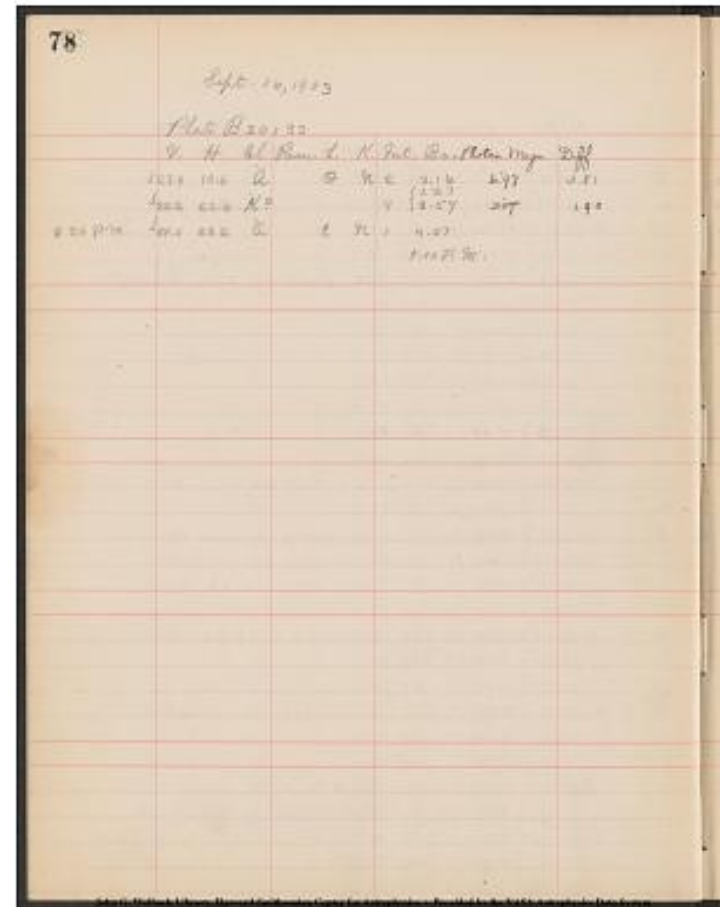


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Sept. 16, 1903

Plate B 20133

-[V. H. Iel.] Rem. L. K. | Int. Gn. Photom. Magn. | Diff  
| 23.4 12.6 alpha | omicron eta | 2 3.16 6:97 | 3.81  
| 24.2 22.6 kappa | 4{1.27 2.57 ~~3:17~~}  
1.90  
8.20 P.M. | 24.0 23.2 alpha | epsilon eta | 1 4.07 |  
|| 9.00 P.M. |



Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
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[[table]]

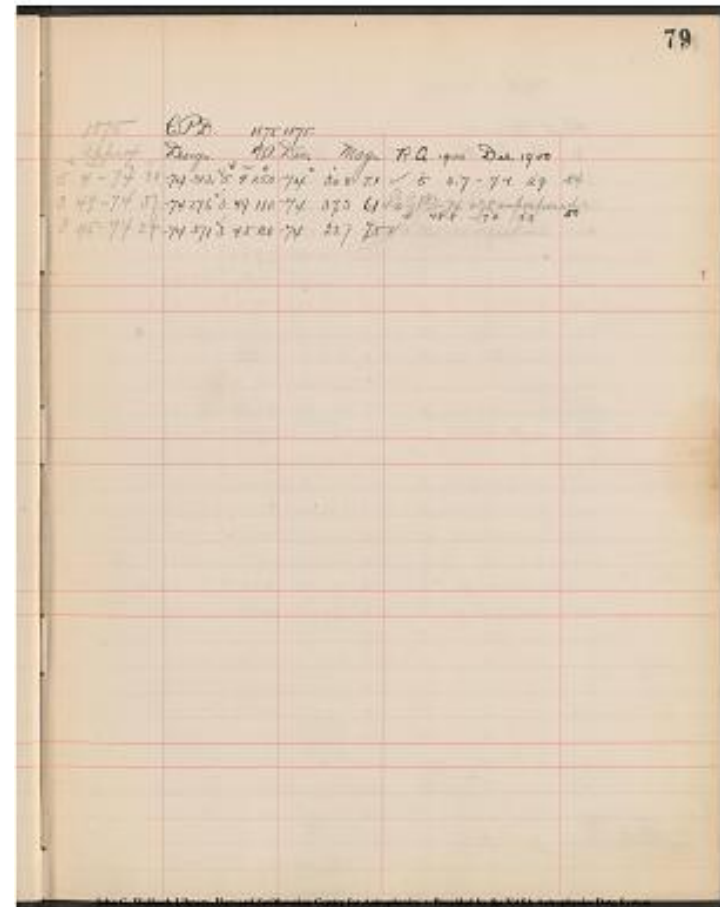
|1875 Approx|C.P.D. Design|1875 R.A.|1875 Dec.|Mag|R.A. 1900|Dec  
1900|

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

|5<sup>h</sup>[[h]] 4<sup>m</sup>[[m]] -74° 30'| -74 312|5<sup>h</sup>[[h]] 4<sup>m</sup>[[m]] 25.0<sup>s</sup>[[s]]|-74° 30.8'| 7.1|5  
3.7|-74 29|54|

|3 49 -74 37|-74 276|3 49 11.0|-74 37.3|6.1|3 48.8|-74 33|50 [[Is CMD -  
74 275 superposed?]]|

|3 45 -74 24|-74 271|3 45 11.0|-74 23.7|7.5| | | |



Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
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[[5 Columned Table]]

1875 Approx. | C.P.D. Design. R.A 1875 | 1875 Dec. Magn. | R.A 1900  
Dec 1900 |

1875 Approx.   C.P.D. Design. R.A 1875   1875 Dec. Magn.   R.A 1900 Dec 1900
6^h[h] 2^m[m] -64° 52' -64° 512 6^h[h] 1^m[m] 25.5^s[s] -64° 51.3' 7.6   6 1.5 -64 51   54
5 53 - 64 30   -64 495 5 53 38.5   -64 30.2 6.7   5 53.7 -64 30   50
5 31 - 64 18   -64 456 ] 5^h[h] 32 18.5   -64 18.6 6.1   5^h[h] 32.4^m[m] - 64^h[h] 18^m[m] 50
5 26 - 64 25   -64 446 5^h[h] 26 1.5   -64 25.6 7.0   5^h[h] 26.1^m[m] - 64^h[h] 25^m[m] 54
6 39 - 65 10   -65 636 6 39 13.0   -65 9.3 8.1   6^h[h] 39.3^m[m]
6 31 - 65 15   -65 618 6 31 55.5^h[h] -65 616 6 31 46.0   -65 16.3 8.0^h[h] -65 13.3 8.0   6 31.9 -65 14   54
6 11 - 65 30   -65 566 6 11 57.0^h[h] -65 565 6 11 52.5   -65 30.1 8.5^h[h] -65 30.0 7.3
6 11 - 65 33   -65 561 6^h[h] 10 58.0   -65 33.6 6.7   6 11.1 -65 34   50
6 10 65 18   -65 557 6^h[h] 9 46.0   -65 17.1 8.1
5 50 - 65 18   -65 507 5^h[h] 50 17.0   -65 17.3 7.9   5 50.4 -65 17   54
5 48 - 65 13   -65 504 5^h[h] 48 11.5   -65 12.2 8.6   5 48.3 -65 12   54
6 41 - 65 21   -65 644 6^h[h] 41 5.0   -65 20.4 7.9
6 29 - 65 28   -65 610 6^h[h] 29 42.0   -65 28.6 6.8   6 29.8 -65 30   50 Correct if 8.7 intended
6 24 - 65 36   -65 588 6^h[h] 24 0.5   -65 36.2 8.1
6 6 - 66 3   -66 493 6^h[h] 6 0.5   -66 1.5 5.7   6 6.0 -66 1   50
5 54 - 66 54   -66 54   -66 54   5 52.3 5^h[h] 54 46.0   - 6   -66 54   5 54.0 7.8
5 44 - 65 48   -65 496 5^h[h] 44 31.5   -65 46.9 5.0   5 44.6 -65 46   50
5 28 - 65 33   -65 475 5 28 22.0   -65 32.7 7.1   5 28.5 -65 32   54
6 38 - 65 59   -65 631 6^h[h] 38 11.7   -65 58.3 8.0
6 30 - 65 57   -65 611 6^h[h] 30 10.0   -65 56.0 8.2
6 22 - 66 15   -66 529 6^h[h] 22 33.0   -66 14.5 8.7
6 15 - 66 15   -66 507 6^h[h] 15 34.0   -66 14.7 7.3
6 13 - 66 8   -66 505 6^h[h] 13 48.5   -66 8.0 8.4
5 56 - 66 18   -66 478 5^h[h] 56 51.0   -66 18.9 8.9
5 20 - 66 12   -66 399 5^h[h] 19 48.0   -66 10.8 7.3
6 43 - 66 22   -66 594^h[h] 6 43 10.0   -66 22.2 8.1
6 31 - 66 46   -66 558 6^h[h] 31 4.0   -66 46.6 8.6
6 16 - 66 43   -66 509 6^h[h] 15 47.0   -66 42.5 8.5
6 13 - 66 38   -66 504 6^h[h] 13 43.5   -66 38.4 7.7

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[[10 columned table]]

V. | H. | Cl. | Rem. | L. | K. | Int. | Br. | Photom. Magn. | Diff. |

8.6	16.8	A						Omicron N 4 1.71 5.15 3.44	
8.2	17.2	H						Epsilon N 1 3.92, 4.15	
8.9	16.7	A						Zeta N 1 3.70	
8.2	19.5	A						Chi N 2 2.50 6.44 3.94	
8.4	20.9	A						Theta N 2 3.46	
9.5	7.9	H						Epsilon N 1 4.22, F	
9.2	13.5	K						Kappa 10 2 3.42, 4.03	
9.5	13.6	H						Epsilon N 1 4.24, F	
9.3	14.2	A						Zeta 2 2.98	
9.0	15.6	A						Epsilon N 1 4.33	
9.3	18.2	F						<del>5246</del> G Kappa 10 3.48	
9.7	18.3	A						Iota 1 2.91	
9.2	18.8	F						5246 Kappa 10 4.00	
10.7	6.4	A						Epsilon N 4.07	
10.8	6.7	A						Iota N 2.4 6.86 4.45	
10.0	7.7	A						Epsilon N 1 4.12	
10.5	8.0	A						Epsilon N 1 4.30	
10.1	8.8	A&F						5247 Kappa 10 4 <del>3.50</del>	
10.0	15.6	H						Epsilon N 1 4.31, F	
10.8	15.6	H						Epsilon N 1 3.72, 4.07	
10.3	17.4	A						Xi N 2 3.43	
11.0	17.8	Y5K						Kappa 10 2 3.50, 3.78	
11.0	19.6	F5Y						Kappa 10 1 4.13	
10.2	23.7	K						12 3 2.14, 2.70 4.78	
11.7	X6.8	A						Xi N 2 4.02	
11.1	8.7	F2y						Kappa 10 2 3.40	
11.3	9.6	F						5248 Kappa 10 1 3.81	
11.5	19.4	H						Epsilon N 1 3.89, 4.15	
11.4	21.2	H						Epsilon N 1 4.01, 4.35	
10.9	23.0	F5Y						Kappa 10 4.28	

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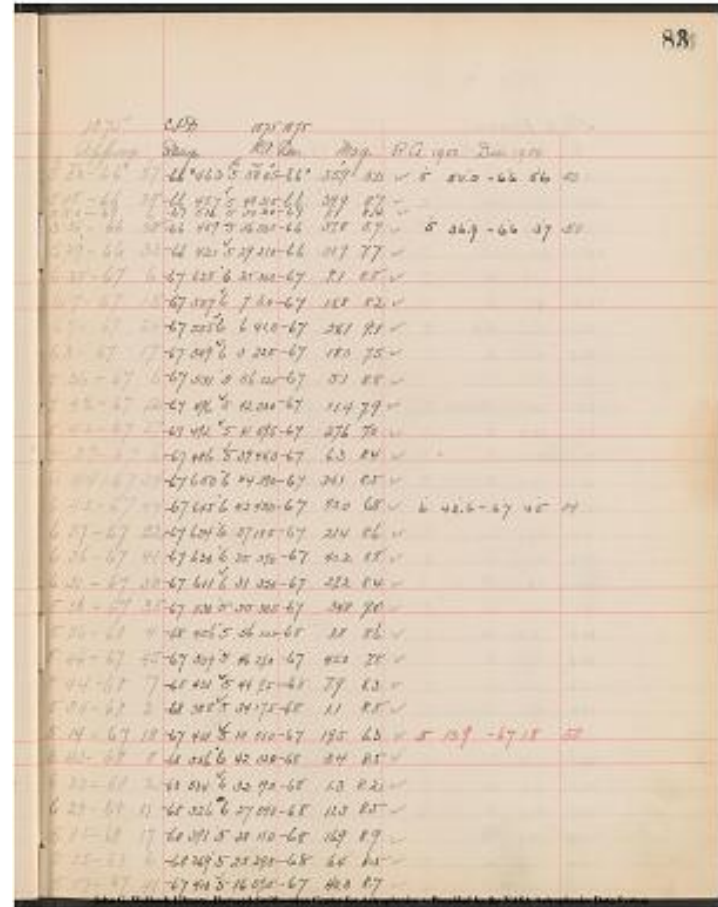
V.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photom.	Magn.	Diff.
8.6	16.8	A						Omicron	4	1.71
8.2	17.2	H						Epsilon	1	3.92
8.9	16.7	A						Zeta	1	3.70
8.2	19.5	A						Chi	2	2.50
8.4	20.9	A						Theta	2	3.46
9.5	7.9	H						Epsilon	1	4.22
9.2	13.5	K						Kappa	10	2
9.5	13.6	H						Epsilon	1	4.24
9.3	14.2	A						Zeta	2	2.98
9.0	15.6	A						Epsilon	1	4.33
9.3	18.2	F						<del>5246</del> G	Kappa	10
9.7	18.3	A						Iota	1	2.91
9.2	18.8	F						5246	Kappa	10
10.7	6.4	A						Epsilon	N	4.07
10.8	6.7	A						Iota	N	2.4
10.0	7.7	A						Epsilon	N	1
10.5	8.0	A						Epsilon	N	1
10.1	8.8	A&F						5247	Kappa	10
10.0	15.6	H						Epsilon	N	1
10.8	15.6	H						Epsilon	N	1
10.3	17.4	A						Xi	N	2
11.0	17.8	Y5K						Kappa	10	2
11.0	19.6	F5Y						Kappa	10	1
10.2	23.7	K						12	3	2.14
11.7	X6.8	A						Xi	N	2
11.1	8.7	F2y						Kappa	10	2
11.3	9.6	F						5248	Kappa	10
11.5	19.4	H						Epsilon	N	1
11.4	21.2	H						Epsilon	N	1
10.9	23.0	F5Y						Kappa	10	4

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[[table]]

1875 Approx|C.P.D. Design|1875 R.A.|1875 Dec.|Mag.|R.A. 1900|Dec. 1900|

5 <sup>h</sup>  [h]	50 <sup>m</sup>  [m]	-66° 57'	-66° 46'3 5 <sup>s</sup>  [h]	50 <sup>m</sup>  [m]	0.5 <sup>s</sup>  [s]	-66° 55.9'	5.0
5 50.0 -66 56	50						
5 48-66 38 -66 457	5 48 21.5 -66 39.9	8.7					
5 50-67 6 -67 516	5 50 31.0 -67 5.1	8.4					
5 36-66 38 -66 439	5 36 53.5 -66 37.8	5.7	5 36.9 -66 37	50			
5 29-66 33 -66 421	5 29 21.0 -66 31.9	7.7					
6 35-67 6 -67 628	6 35 30.0 -67 7.1	8.8					
6 7-67 15 -67 557	6 7 6.0 -67 15.8	8.2					
6 7-67 24 -67 555	6 6 41.0 -67 24.1	9.1					
6 3-67 17 -67 549	6 3 23.5 -67 18.0	7.5					
5 56-67 6 -67 531	5 <sup>h</sup>  [h]	56 12.0 -67 5.1	8.8				
5 43-67 12 -67 496	5 42 53.0 -67 11.4	7.9					
5 42-67 27 -67 492	5 41 59.5 -67 27.6	7.0					
5 39-67 6 -67 486	5 39 44.3 -67 63	8.4					
6 44-67 34 -67 650	6 44 29.0 -67 34.1	8.5					
6 43-67 44 -67 645	6 42 43.0 -67 43.0	6.8	6 42.6 -67 45	54			
6 37-67 22 -67 634	6 37 18.5 -67 21.4	8.6					
6 36-67 41 -67 630	6 35 59.0 -67 40.2	8.8					
6 31-67 30 -67 611	6 31 32.0 -67 29.2	8.4					
5 56-67 35 -67 530	5 55 50.5 -67 34.8	9.0					
5 56-68 4 -68 456	5 56 10.0 -68 3.8	8.6					
5 46-67 45 -67 509	5 46 29.0 -67 45.0	7.8					
5 44-68 7 -68 431	5 44 9.5 -68 7.9	8.3					
5 34-68 2 -68 388	5 34 17.5 -68 1.1	8.8					
5 14-67 18 -67 401	5 13 51.0 -67 19.5	6.3	5 13.9 -67 18	50			
6 43-68 8 -68 556	6 42 53.0 -68 8.4	8.5					
6 32-68 2 -68 534	6 32 19.0 -68 1.3	8.2					
6 28-68 11 -68 526	6 27 54.5 -68 11.3	8.5					
5 35-68 17 -68 391	5 38 11.0 -68 16.9	8.9					
5 25-68 6 -68 369	5 25 29.5 -68 6.4	8.5					
5 17-67 41 -67 410	5 16 59.5 -67 40.3	8.7					



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[[8 Columned Table]]  
V. H. Cl.	Rem.	L.	K.	Int. Br.	Photom. Magn.	Diff.
12.1 8.3 A		Epsilon	N	1 4.10		
12.3 8.9 Ma		Epsilon	N	1 {4.32 ^[[4.15]]		
12.8 9.2 A		Theta	N	2 3.29		
13.0 11.4 F 2 G			10	2 3.41		
12.8 1[[~~3.70~~]] 2[[~~3.70~~]] 11.7 H		Epsilon	N	2		
{4.00 ^[[3.70]]						
12.2 13.1 A		Nu	N	4 [[~~3.70~~]] 4[[~~3.70~~]] 1.47		
5.21	[[~~3.70~~]] 0[[~~3.70~~]] 3.74					
12.4 17.9 H		Epsilon	N	1 {4.15 ^[[3.99]]		
12.4 18.1 K		Epsilon	N	2 {4.00 ^[[3.65]]		
13.0 18.5 Q 2?	5249	2 3.29				
12.5 20.7 A 5 F	5250	Kappa	10	3 2.23 6.15	3.92	
12.6 22.3 G		Kappa	10	1 3.90		
12.8 22.4 H		Kappa	10	2 {3.80 ^[[3.52]]		
12.7 22.5 F	5251	Kappa	10	4.20		
12.0 22.8 F	5252	Kappa	10	1 4.15		
12.0 23.3 A		Epsilon	N	1 4.03		
13.7 7.0 A		Epsilon	N	1 4.10		
14.0 10.2 K	12	3 {2.30 ^[[2.08]]	5.40	3.32[[~~3.32~~]]		
8[[~~3.32~~]]						
13.1 12.4 A		Zeta	N	2 3.47		
14.0 13.2 H		Epsilon	N	1 F ^[[4.35]]		
13.2 13.5 A		Epsilon	N	1 4.12		
? 14.0 ?	13.6 14.6 A		Epsilon	N	1 4.27	
13.6 15.1 F	5253	Kappa	10	2 3.56		
14.0 19.1 A		Zeta	N	2 3.74		
13.1 24.5 F 2 G		Kappa	10	2 3.90		
14.4 7.3 A		Theta	N	2 2.90		
14.6 10.7 K		Kappa	10	{3.8[[~~3.8~~]] 9[[~~3.8~~]] 9,		
2.33	5.56					
14.2 11.3 F 5 G			12	2 3.02	6.94	3.92
14.1 12.6 A		Zeta	10	2 3.47	8.19	
14.7 A		Epsilon	N	2 3.82	8.44	

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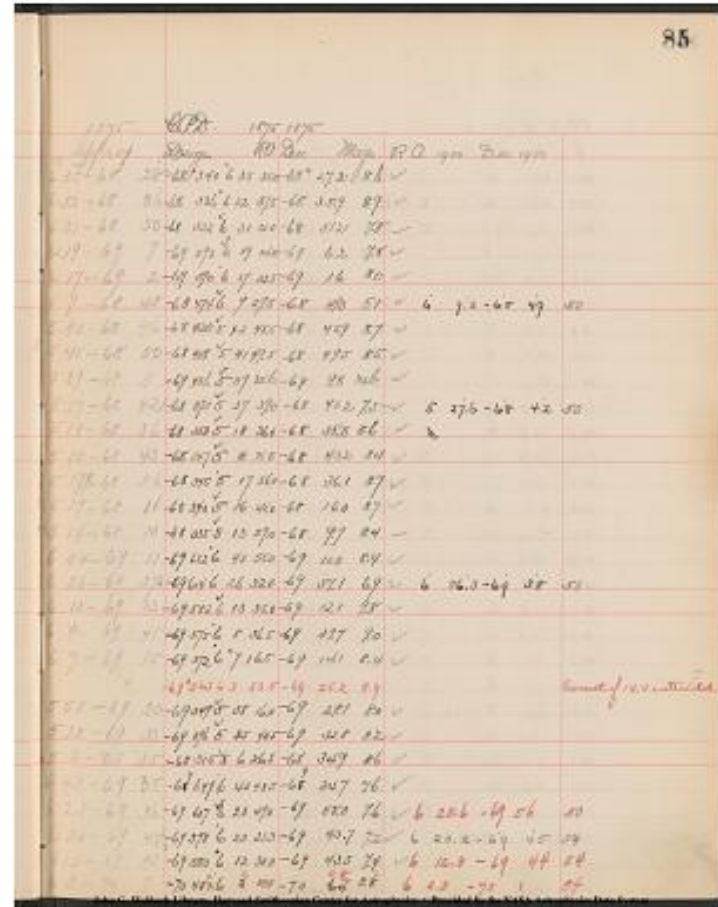
[[5 Columned Table]]

1875 | C.P.D. 1875 | 1875 | |

| Approx | Design | R.A. | Dec. | Magn. | R.A. 1900 | Dec. 1900 | |

6 35 - 68 28	-68 540 6 35 35.0	-68 27.2 8.6				
6 32 - 68 36	-68 536 6 32 37.5	-68 35.9 8.9				
6 31 - 68 50	-68 532 6 31 12.0	-68 51.2 7.8				
6 19 - 69 7	-69 593 6 19 14.0	-69 6.2 7.8				
6 17 - 69 2	-69 590 6 17 32.5	-69 1.6 8.0				
6 9 - 68 48	-68 474 6 9 29.5	-68 49.0 5.1	6 9.3 - 68 49	50		
5 42 - 68 46	-68 420 5 42 45.5	-68 45.9 8.7				
5 41 - 68 50	-68 418 5 41 49.5	-68 49.5 8.5				
5 39 - 69 11	-69 456 5 39 35.6	-69 9.8 neb.				
5 27 - 68 42	-68 375 5 27 39.0	-68 43.2 7.5	5 27.6 - 68 42	50		
5 18 - 68 36	-68 350 5 18 36.0	-68 35.5 8.6				
5 18 - 68 43	-68 347 5 18 11.5	-68 43.2 8.4				
5 17.9 - 68 36	-68 345 5 17 56.0	-68 36.1 8.7				
5 17 - 68 16	-68 340 5 16 41.0	-68 16.0 8.7				
5 14 - 68 10	-68 335 5 13 59.0	-68 9.7 8.4				
6 44 - 69 11	-69 652 6 43 55.0	-69 10.0 8.4				
6 26 - 69 37	-69 614 6 26 32.0	-69 37.1 6.9	6 26.3 - 69 38	50		
6 13 - 69 13	-69 582 6 13 35.0	-69 12.1 7.8				
6 9 - 69 41	-69 575 6 8 56.5	-69 39.7 9.0				
6 7 - 69 15	-69 572 6 7 16.5	-69 14.1 8.4				
	-69° 563 6 3 53.5	-69 25.2 8.9				
5 58 - 69 30	-69 549 5 58 16.0	-69 29.1 8.0				
5 35 - 69 33	-69 396 5 35 43.5	-69 32.8 8.2				
5 6 - 68 35	-68 315 5 6 26.5	-68 34.9 8.6				
6 43 - 69 35	-69 649 6 43 43.5	-69 34.7 7.6	6 23.6 - 69 56	50		
6 23 - 69 36	-69 607 6 20 21.3	-69 43.7 7.2	6 20.2 - 69 45	54		
6 12 - 69 43	-69 580 6 12 30.0	-69 43.5 7.4	6 12.3 - 69 44	54		
6 3 - 70 7	-70 480 6 2 34.0	-70 <del>6.4</del>	<del>6.4</del>			
0.8 8.	<del>8</del>	<del>2</del>	6 2.3 - 70 1	54		

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[[7 Columned Table]]

V. H. Cl.	Rem.	L. K.	Int.	Br.	Photon.	Magn.	Diff.
14.9 14.3 H	epsilon eta	1	{4.25/F				
14.4 14.8 H	epsilon eta	1	{4.33/F	8.54	4.21		
14.5 16.1 F2G	Kappa 10	2	3.41	7.76	4.35		
14.1 18.4 Q?	525	<del>3</del>	<del>4</del>		1	4.40	
14.9 18.4 F5G	Kappa 12	1	<del>4</del>	<del>4</del>			
3.84	8.24	40					
15.1 19.7 H	Epsilon eta	1	{4.03/F	8.54			
1	<del>5</del>	<del>4.7</del>	19.7 F	5255	Kappa 10	1	
4.08							
14.8 23.0 H	epsilon eta	2	{3.80 4.40				
14.5 23.3 H	epsilon eta	1	{4.25 F				
14.2 23.5 F5G	Kappa 10	1	4.18				
14.0 24.5	<del>H</del>	<del>A</del>		epsilon eta	1	3.92	
15.2 6.0 G5K	Kappa 10	2	{3.05 3.30	6.68			
15.9 7.0 G5K	Kappa 10	3	{2.45 2.80	5.88	3.43		
15.1 8.5 A	epsilon eta	1	3.90 9.09				
15.8 9.3 F2G	Kappa 10	2	3.25				
15.1 10.5 F	5256	Kappa 10	2	3.36	7.89		
15.4 12.8 H	Epsilon eta	1	{4.30 F				
15.2 12.9 A	Epsilon eta	1	4.30				
15.6 13.6 A	Epsilon eta	1	4.40				
15.7 15.4 F	5257	Kappa 10	1	3.77			
15.7 16.0 A	Xi 3	2	3.53				
15.5 16.5 F	5258	Kappa 10	1	3.88			
15.1 17.2 H	Kappa 10	2	{3.66 3.96	8.34			
15.8 18.3 F	5259	Kappa 10	2	3.88			
15.3 18.8 H	Epsilon eta	1	{4.08 4.40				
15.4 20.2 K	Kappa 10	2	{3.92 4.20	8.46			
15.3 23.3 F	5260	Kappa 10	1	4.00	8.86		
15.3 24.7 A	Epsilon nu	2	3.48	8.32			
10.4 5.3 A	iota eta	3	2.74	7.22			

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14.9 14.3 H epsilon eta 1 {4.25/F | | |

14.4 14.8 H epsilon eta 1 {4.33/F 8.54 4.21 |

14.5 16.1 F2G Kappa 10 2 3.41 7.76 4.35 |

14.1 18.4 Q? 525 ~~3~~ ~~4~~ | 1 4.40 | |

14.9 18.4 F5G Kappa 12 1 ~~4~~ ~~4~~ | | |

3.84 8.24 40 | | |

15.1 19.7 H Epsilon eta 1 {4.03/F 8.54 | |

1 ~~5~~ ~~4.7~~ 19.7 F 5255 Kappa 10 1 |

4.08 | | |

14.8 23.0 H epsilon eta 2 {3.80 4.40 | |

14.5 23.3 H epsilon eta 1 {4.25 F | |

14.2 23.5 F5G Kappa 10 1 4.18 | |

14.0 24.5 ~~H~~ ~~A~~ | epsilon eta 1 3.92 |

15.2 6.0 G5K Kappa 10 2 {3.05 3.30 6.68 |

15.9 7.0 G5K Kappa 10 3 {2.45 2.80 5.88 3.43 |

15.1 8.5 A epsilon eta 1 3.90 9.09 | |

15.8 9.3 F2G Kappa 10 2 3.25 | |

15.1 10.5 F 5256 Kappa 10 2 3.36 7.89 | |

15.4 12.8 H Epsilon eta 1 {4.30 F | |

15.2 12.9 A Epsilon eta 1 4.30 | |

15.6 13.6 A Epsilon eta 1 4.40 | |

15.7 15.4 F 5257 Kappa 10 1 3.77 | |

15.7 16.0 A Xi 3 2 3.53 | |

15.5 16.5 F 5258 Kappa 10 1 3.88 | |

15.1 17.2 H Kappa 10 2 {3.66 3.96 8.34 | |

15.8 18.3 F 5259 Kappa 10 2 3.88 | |

15.3 18.8 H Epsilon eta 1 {4.08 4.40 | |

15.4 20.2 K Kappa 10 2 {3.92 4.20 8.46 | |

15.3 23.3 F 5260 Kappa 10 1 4.00 8.86 | |

15.3 24.7 A Epsilon nu 2 3.48 8.32 | |

10.4 5.3 A iota eta 3 2.74 7.22 | |

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[[5 Columned Table]]

1875 Approx | C.P.D. Design 1875 R.A. | 1875 Dec. Magn. | R.A.  
 1900 Dec 1900 | |  
 --- | --- | --- | --- | ---  
 6<sup>h</sup>[[h]] 2<sup>m</sup>[[m]] - 70[[symbol - degrees]] 1' | -70<sup>^</sup>[[symbol - degrees]]  
 48[[strikethrough]]0[[/strikethrough]]1 6 [[strikethrough]]2[[/strikethrough]]  
 3 [[strikethrough]]34.0[[/strikethrough]] 3.0 | -70[[symbol - degrees]]  
 [[strikethrough]]0.8[[/strikethrough]] 6.4'  
 8. [[strikethrough]]2[[/strikethrough]] | |  
 60 - 69 52 | -69 554 ^[[.]]5 59 43.0 | -69 51.6 8.8 | 5<sup>^</sup>[[.]] 59.5<sup>^</sup>[[.]] -  
 69<sup>^</sup>[[.]] 52<sup>^</sup>[[.]] | 54 |  
 52 - 69 56 | -69/-69 534/535 ^[[.]]5/5 52/52 13.5/17.5 | -69/-69  
 55.6/55.6 7.8/9.8 | 5<sup>^</sup>[[.]] 52.0<sup>^</sup>[[.]] - 69<sup>^</sup>[[.]] 56<sup>^</sup>[[.]] | 54 |  
 5 40 - 69 34 | -69 466 ^[[.]]5 39 52.7 | -69 33.6 neg. | |  
 539 - 70 0 | -70 42.2 ^[[.]]5 39 9.3 | -70 1.9 8.6 | 5<sup>^</sup>[[.]] 39.0<sup>^</sup>[[.]] -  
 70<sup>^</sup>[[.]] 1<sup>^</sup>[[.]] | 54 |  
 531-70 4 | -70 401 ^[[.]]5 31 13.0 | -70 4.0 8.8 | 5<sup>^</sup>[[.]] 31.0<sup>^</sup>[[.]] - 70<sup>^</sup>[[.]]  
 3<sup>^</sup>[[.]] | 54 |  
 531 - 69 52 | -69 384 ^[[.]]5 31 11.0 | -69 52.4 8.7 | | |  
 512 - 69 40 | -69 340 ^[[.]]5 12 23.5 | -69 41.4 8.8 | | |  
 511 - 69 30 | -69 337 ^[[.]]5 11 20.5 | -69 28.1 9.1 | | |  
 510 - 69 18 | -69 334 ^[[.]]5 10 13.0 | -69 18.6 8.7 | | |  
 55 - 69 4 | -69 327 ^[[.]]5 5 31.5 | -69 3.9 8.8 | | |  
 6 51 - 69 51 | -69 665 ^[[.]]6 51 27.5 | -69 50.0 7.7 | 6 51.3 - 69 52 | 54 |  
 6 46 - 70 18 | -70 560 ^[[.]]6 46 10.5 | -70 17.8 7.7 | 6<sup>^</sup>[[.]] 46.0<sup>^</sup>[[.]] -  
 70<sup>^</sup>[[.]] 20<sup>^</sup>[[.]] | 50 |  
 6 36 - 70 0 | -69 [[strikethrough]]70[[/strikethrough]] 638 ^[[.]]6 36 552 |  
 -69[[strikethrough]]70[[/strikethrough]] 59.3 8.0 | 6<sup>^</sup>[[.]] 36.7<sup>^</sup>[[.]] - 70<sup>^</sup>[[.]]  
 0<sup>^</sup>[[.]] | 54 |  
 6 32 - 70 27 | -70 533 ^[[.]]6 32 36.0 | -70 25.1 7.8 | | |  
 6 25 - 70 7 | -70 515 ^[[.]]6 25 20.0 | -70 6.9 8.0 | 6<sup>^</sup>[[.]] 25.0<sup>^</sup>[[.]] -  
 70<sup>^</sup>[[.]] 8<sup>^</sup>[[.]] | 54 |  
 6 11 - 70 21 | -70 492 ^[[.]]6 11 50.0 | -70 20.0 9.0 | | |  
 6 10 - 70 17 | -70 491 ^[[.]]6 10 56.0 | -70 16.1 8.6 | | |  
 6 6 - 70 28 | -70 486 ^[[.]]6 6 54.0 | -70 26.7 8.8 | | |  
 5 56 - 70 32 | -70 472 ^[[.]]5 56 21.0 | -70 31.7 8.2 | | |  
 5 53 - 70 30 | -70 462 ^[[.]]5 52 530 | -70 38.2 8.1 | | |  
 5 49 - 70 23 | -70 451 ^[[.]]5 49 43.0 | -70 22.7 8.1 | | |  
 5 46 - 70 14 | -70 447 ^[[.]]5 45 57.0 | -70 13.7 8.6 | 5<sup>^</sup>[[.]] 45.7<sup>^</sup>[[.]] -  
 70<sup>^</sup>[[.]] 14<sup>^</sup>[[.]] | 54 |  
 5 39 - 70 30 | -70 421 ^[[.]]5 39 0.5 | -70 29.1 8.6 | | |  
 5 36 - 70 15 | -70 412 ^[[.]]5 36 5.0 | -70 14.0 9.1 | | |  
 5 28 - 70 10 | -70 393 ^[[.]]5 27 53.0 | -70 9.9 8.8 | 5<sup>^</sup>[[.]] 27.7<sup>^</sup>[[.]] -  
 70<sup>^</sup>[[.]] 9<sup>^</sup>[[.]] | 54 |  
 5 10 - 69 52 | -69 336 ^[[.]]5 10 24.0 | -69 52.1 8.6 | 5<sup>^</sup>[[.]] 2.2<sup>^</sup>[[.]] -  
 69<sup>^</sup>[[.]] 38<sup>^</sup>[[.]] | 54 |

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[[7 Columned Table]]

V. H. Cl. Rem. L. K. Int. Br. Photon. magn. Diff.

V.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photon. magn.	Diff.
16.3	6.8	K		Kappa	10	2		{3.25 3.80}	
16.2	6.9	H		Epsilon	N	1		{3.61 4.12}	
16.3	7.7	A8F	5261	Zeta	10	2		{2.94}	
16.1	8.3	F2G		Kappa	10	2		{3.11}	
16.8	8.4	A		Zeta	N	2		{3.35}	
16.9	8.9	H		Epsilon	N	1		{4.27/F}	
16.6	10.7	A		Zeta	1	2		{3.27}	
16.8	13.1	A		Epsilon	N	1		{4.08}	
16.7	14.1	F2G		K	10	1		{4.28}	
17.0	14.5	H		Epsilon	N	1		{4.26/F}	
16.7	16.5	F	5262	Kappa	10	1		{4.23}	
16.9	19.3	F2G		Kappa	10	2		{3.51}	
16.7	19.6	A		Theta	N	2		{3.19}	
16.9	19.7	F2G		Kappa	10	1		{3.76}	
17.0	21.0	F	5263	Xi	10	1		{4.12}	
16.5	21.8	A8F	5264	Epsilon	10	1		{3.60}	
16.8	22.0	F2G		Kappa	10	1		{3.85}	
17.1	6.1	A		Mu	N	4		{1.62 5.52 3.90}	
17.2	7.0	A		Epsilon	N	1		{4.00}	
17.4	7.8	H		Kappa	10	2		{3.52 4.00}	
17.2	7.9	Ma		Epsilon	N	1		{3.92 4.10}	
17.8	9.8	A		Zeta	5	2		{3.58}	
17.8	10.4	A		Epsilon	N	1		{4.33}	
17.8	12.1	Pec.				1		{3.80 4.20}	
18.0	12.1	F2G			12	3		{2.53 6.49 3.96}	
17.3	14.7	H		Epsilon	N	1		{4.10 4.33}	
17.4	16.0	H		Epsilon	N	1		{4.34/F}	
18.0	16.5	H		Epsilon	N	1		{4.30/F}	
^[[10.05 P.M.]]	17.2	18.5	K		Kappa	10	2	{3.70/4.15}	

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V. H. Cl. Rem. L. K. Int. Br. Photon. magn. Diff.

16.3	6.8	K		K	10	2		3.25	3.80
16.2	6.9	H		E	N	1		3.61	4.12
16.3	7.7	A8F	5261	Z	10	2		2.94	
16.1	8.3	F2G		K	10	2		3.11	
16.8	8.4	A		Z	N	2		3.35	
16.9	8.9	H		E	N	1		4.27	F
16.6	10.7	A		Z	1	2		3.27	
16.8	13.1	A		E	N	1		4.08	
16.7	14.1	F2G		K	10	1		4.28	
17.0	14.5	H		E	N	1		4.26	F
16.7	16.5	F	5262	K	10	1		4.23	
16.9	19.3	F2G		K	10	2		3.51	
16.7	19.6	A		Th	N	2		3.19	
16.9	19.7	F2G		K	10	1		3.76	
17.0	21.0	F	5263	Xi	10	1		4.12	
16.5	21.8	A8F	5264	E	10	1		3.60	
16.8	22.0	F2G		K	10	1		3.85	
17.1	6.1	A		Mu	N	4		1.62	5.52 3.90
17.2	7.0	A		E	N	1		4.00	
17.4	7.8	H		K	10	2		3.52	4.00
17.2	7.9	Ma		E	N	1		3.92	4.10
17.8	9.8	A		Z	5	2		3.58	
17.8	10.4	A		E	N	1		4.33	
17.8	12.1	Pec.				1		3.80	4.20
18.0	12.1	F2G			12	3		2.53	6.49 3.96
17.3	14.7	H		E	N	1		4.10	4.33
17.4	16.0	H		E	N	1		4.34	F
18.0	16.5	H		E	N	1		4.30	F
^[[10.05 P.M.]]	17.2	18.5	K		K	10	2	3.70	4.15

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[6 Columned Table]

1875 Approx|C.P.D. Design 1875 R.A.|1875 Dec.| Magn.|R.A. 1900  
Dec. 1900|

1875 R.A.	1875 Dec.	Magn.	R.A. 1900	Dec. 1900
6 54-70 21-70	574 6 53 50.5	-70° 21.0'	8.2	Correct if 5.8 intended
6 47-70 24-70	564 6 47 6.5	-70 23.0	8.3	
6 42-70 33-70	552 6 42 26.0	-70 31.6	7.2	
6 39-70 29-70	543 6 39 2.0	-70 29.2	7.7	
6 38-70 48-70	542 6 38 41.0	-70 48.2	7.8	
6 35-70 54-70	537 6 35 34.0	-70 53.7	8.9	
6 24-70 53-70	514 6 10 43.5	-70 52.5	7.9	
6 10-71 3-71	410 6 10 14.0	-71 5.6	8.6	
6 4-71 3-71	410 6 3 530	-71 2.2	9.0	
6 1-71 12-71	407 6 1 5.0	-71 11.6	8.8	
5 49-71 0-71	380 5 49 14.5	-71 1.6	8.8	
5 32-71 0-71	346 5 32 22.5	-71 0.5	8.5	
5 30-70 55-70	399 5 30 42.0	-70 55.1	8.3	
5 30-71 0-70	398 5 30 2.0	-70 59.9	8.7	
5 17-70 52-70	384 5 21 39.0	-70 51.4	8.8	
5 17-70 34-70	381 5 17 22.0	-70 35.1	8.5	
5 16-70 42-70	377 5 15 55.0	-70 43.1	8.7	
6 50-70 49-70	572 6 52 49.5	-70 48.4	5.0	6 52.6 -70 5.0 50
6 47-70 54-70	565 6 47 41.5	-70 53.5	7.8	
6 43-71 6-71	478 6 43 21.0	-71 5.2	8.6	
6 42-71 6-71	478 6 42 40.5	-71 0.0	8.9	
6 31-71 25-71	449 6 31 14.0	-71 24.9	8.2	
6 27-71 28-71	439 6 16 53.0	-71 27.0	9.2	
6 17-71 20-71	404 6 0 11.0	-71 36.5	8.8	
6 17-71 38-71	426 6 17 5.0	-71 39.4	7.4	6 16.7 -71 4.0 50
6 0-71 20-71	404 6 0 11.0	-71 19.7	8.8	
5 52-71 24-71	387 5 52 11.0	-71 22.9	9.0	
5 49-71 38-71	377 5 48 4.5	-71 38.4	8.9	
5 36-71 12-71	355 5 36 58.0	-71 12.7	8.5	

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R.A.	Dec.	Magn.	R.A.	Dec.	Magn.
6 54-70 21-70	574 6 53 50.5	-70° 21.0'	8.2	Correct if 5.8 intended	
6 47-70 24-70	564 6 47 6.5	-70 23.0	8.3		
6 42-70 33-70	552 6 42 26.0	-70 31.6	7.2		
6 39-70 29-70	543 6 39 2.0	-70 29.2	7.7		
6 38-70 48-70	542 6 38 41.0	-70 48.2	7.8		
6 35-70 54-70	537 6 35 34.0	-70 53.7	8.9		
6 24-70 53-70	514 6 10 43.5	-70 52.5	7.9		
6 10-71 3-71	410 6 10 14.0	-71 5.6	8.6		
6 4-71 3-71	410 6 3 530	-71 2.2	9.0		
6 1-71 12-71	407 6 1 5.0	-71 11.6	8.8		
5 49-71 0-71	380 5 49 14.5	-71 1.6	8.8		
5 32-71 0-71	346 5 32 22.5	-71 0.5	8.5		
5 30-70 55-70	399 5 30 42.0	-70 55.1	8.3		
5 30-71 0-70	398 5 30 2.0	-70 59.9	8.7		
5 17-70 52-70	384 5 21 39.0	-70 51.4	8.8		
5 17-70 34-70	381 5 17 22.0	-70 35.1	8.5		
5 16-70 42-70	377 5 15 55.0	-70 43.1	8.7		
6 50-70 49-70	572 6 52 49.5	-70 48.4	5.0	6 52.6 -70 5.0 50	
6 47-70 54-70	565 6 47 41.5	-70 53.5	7.8		
6 43-71 6-71	478 6 43 21.0	-71 5.2	8.6		
6 42-71 6-71	478 6 42 40.5	-71 0.0	8.9		
6 31-71 25-71	449 6 31 14.0	-71 24.9	8.2		
6 27-71 28-71	439 6 16 53.0	-71 27.0	9.2		
6 17-71 20-71	404 6 0 11.0	-71 36.5	8.8		
6 17-71 38-71	426 6 17 5.0	-71 39.4	7.4	6 16.7 -71 4.0 50	
6 0-71 20-71	404 6 0 11.0	-71 19.7	8.8		
5 52-71 24-71	387 5 52 11.0	-71 22.9	9.0		
5 49-71 38-71	377 5 48 4.5	-71 38.4	8.9		
5 36-71 12-71	355 5 36 58.0	-71 12.7	8.5		

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[[10 columned table]]

V.	H.	Bl	Rem.	L.	K.	Int.	Br.	Photon.	Magn.	Diff.
17.6	19.7	F <sup>+</sup> [.]	5265	Kappa	10	1			4.10	
17.7	22.0	H <sup>+</sup> [.]		Kappa	10	1			4.00 4.40	
17.3	20.9	H <sup>+</sup> [.]		Kappa	10	1			3.95 4.25	
17.3	23.3	H <sup>+</sup> [.]		Epsilon	Eta	1			4.35 F	
17.4	24.2	F <sup>+</sup> [.]	5266	Kappa	10	2			3.18	
18.7	7.9	H <sup>+</sup> [.]		Epsilon	Eta	1			3.66 4.12	
18.4	8.0	K <sup>+</sup> [.]		Kappa	12	3			2.76 3.35	6.43 <sup>+</sup> [.]   3.67
18.7	9.0	H <sup>+</sup> [.]		Epsilon	Eta	1			4.21 F	
18.1	9.2	H <sup>+</sup> [.]		Kappa	10	2			3.61 4.08	
18.8	10.1	A <sup>+</sup> [.]		Zeta	eta	2			3.47	
18.7	10.4	H <sup>+</sup> [.]		Epsilon	Eta	1			4.22 F	
18.8	11.6	A <sup>+</sup> [.]		Theta	3	2			3.00	
18.9	12.7	H <sup>+</sup> [.]		Epsilon	Eta	1			4.40 F	
18.1	13.0	H <sup>+</sup> [.]		Epsilon	Eta	1			4.38 F	
18.9	14.1	H <sup>+</sup> [.]		Epsilon	Eta	1			3.83 4.15	
18.4	15.9	F <sup>+</sup> [.]	5267	Kappa	10	1			4.40	
18.2	1	<del>1</del>	<del>8.3</del>	<del>7.7</del>	A				Epsilon   N   1	
4.35										
18.2	18.3	A <sup>+</sup> [.]		Epsilon	Eta	1			4.19	
18.4	18.4	H <sup>+</sup> [.]		Epsilon	Eta	1			4.00 4.30	
18.3	20.4	A <sup>+</sup> [.]		iota	4	2			2.96	
18.4	20.7	A <sup>+</sup> [.]		Epsilon	Eta	1			3.58	
18.5	21.1	H <sup>+</sup> [.]		Kappa	10	2			3.47 3.95	
18.6	21.6	H <sup>+</sup> [.]		Epsilon	Eta	1			4.20 F	
18.3	22.9	H <sup>+</sup> [.]		Kappa	10	2			3.27 4.00	
18.6	23.5	G5K <sup>+</sup> [.]			12	3			2.12 2.30	5.30 <sup>+</sup> [.]   3.18
18.2	24.7	H <sup>+</sup> [.]		Kappa	10	2			3.24 3.60	
19.3	9.2	A <sup>+</sup> [.]		Epsilon	Eta	2			3.37	
19.2	9.4	A <sup>+</sup> [.]		Epsilon	Eta	1			4.17	
19.4	10.8	F <sup>+</sup> [.]	5268	Kappa	10	1			3.94	

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 [[note 1]]

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[[table]]

1875 approx. | C.P.D. Design. | 1875 R.A. | 1875 Dec. Magn. | R.A. 1900  
Dec. 1900 |

5	29	-71	19	-71	344	5	29	15.0	-71	18.8	8.9	
5	14	-71	12	-71	323	5	14	35.0	-71	12.0	9.1	
5	22	-71	6	-71	333	5	21	49.0	-71	5.0	9.0	
1	-70	364	5	7	23.0	-70	50.6	9.3				
5	1	-70	49	-70	350	5	1	57.0	-70	48.0	8.3	
6	43	-71	45	-71	480	6	44	4.0	-71	45.6	8.6	
6	42	-71	38	-71	476	6	42	51.0	-71	38.8	7.7	
6	37	-71	53	-71	468	6	37	4.0	-71	51.8	9.2	
6	35	-71	33	-71	460	6	35	5.0	-71	32.9	8.6	
6	30	-71	56	-71	446	6	29	44.0	-71	45.6	8.6	
6	27	-71	58	-71	441	6	27	48.0	-71	57.9	9.0	
6	20	-72	3	-72	469	6	20	25.0	-72	4.4	8.0	
6	13	-72	6	-72	458	6	13	29.0	-72	7.7	9.2	
6	11	-71	42	-71	419	6	11	27.0	-71	42.6	9.3	
6	3	-72	8	-72	443	6	4	0.0	-72	8.3	8.6	
5	52	-71	54	-71	388	5	52	41.0	-71	53.9	8.2	
5	41	-71	43	-71	365	5	40	52.5	-71	42.0	8.6	
5	37	-71	45	-71	356	5	37	17.5	-71	44.9	8.6	
5	36	-71	49	-71	354	5	36	51.5	-71	49.2	8.6	
5	24	-71	37	-71	335	5	24	16.0	-71	37.2	8.4	
5	22	-71	40	-71	334	5	22	20.0	-71	39.0	8.8	
5	19	-71	40	-71	330	5	19	15.0	-71	39.4	8.7	
5	16	-71	39	-71	325	5	16	5.0	-71	38.2	9.0	
5	8	-71	26	-71	315	5	8	45.0	-71	25.5	8.8	
5	4	-71	30	-71	309	5	4	20.0	-71	29.1	7.9	
4	58	-71	8	-71	301	4	58	14.5	-71	6.8	8.7	
6	36	-72	10	-72	505	6	36	15.5	-72	9.8	8.3	
6	34	-72	6	-72	502	6	34	44.0	-72	4.7	8.7	
6	25	-72	18	-72	478	6	25	31.5	-72	17.6	9.0	

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V. H. Cl. Rem. L. K. Int. Br. Photom. Magn. Diff.

19.5	12.1	H <sup>+</sup> [.]	Epsilon Eta	1	{4.24 F}	
19.5	13.4	H <sup>+</sup> [.]	Epsilon Eta	1	{4.22 F}	
19.3	15.5	F <sup>+</sup> [.]	5269	Kappa 10	{1 4.10}	
20.0	16.2	K <sup>+</sup> [.]	Kappa 12	{3 2.75 3.00}	{6.51 [.]}	3.76
20.0	16.6	F2G <sup>+</sup> [.]	Kappa 10	{2 3.52}		
19.4	17.3	F <sup>+</sup> [.]	5270	Kappa 10	{2 3.80}	
19.8	17.4	H <sup>+</sup> [.]	Epsilon Eta	1	{4.02 4.20}	
19.9	20.0	A <sup>+</sup> [.]	Theta 5	{3 2.90}		
19.5	20.4	H <sup>+</sup> [.]	Epsilon Eta	1	{4.27 F}	
19.8	22.0	H <sup>+</sup> [.]	Kappa 10	{2 {3.87 4.00}		
19.8	23.3	H <sup>+</sup> [.]	Epsilon Eta	1	{4.12 4.40}	
20.2	12.5	F	5271	Kappa 10	{1 4.10}	
20.5	12.8	A <sup>+</sup> [.]	Epsilon 3	{3 2.98}		
^[[Is this not 15.0?]]						
20.2	15.5	G5K <sup>+</sup> [.]	Kappa 10	{2 {3.30 3.60}		
20.8	15.0	K <sup>+</sup> [.]	Kappa 12	{2 {3.36 3.84}		
20.8	17.8	H <sup>+</sup> [.]	Kappa 10	{2 {3.60 4.03}		
20.7	17.9	H <sup>+</sup> [.]	Epsilon Eta	1	{3.96 4.20}	
20.6	18.4	A <sup>+</sup> [.]	Zeta 4	{2 3.48}		
20.6	18.8	G5K <sup>+</sup> [.]	Kappa 10	{2 {3.68 3.82}		
20.6	19.0	F5G <sup>+</sup> [.]	Kappa 10	{1 4.10}		
21.0	19.2	H <sup>+</sup> [.]	Epsilon Eta	1	{4.00 4.50}	
20.8	20.7	H <sup>+</sup> [.]	Epsilon Eta	1	{4.20 F}	
20.2	21.1	H <sup>+</sup> [.]	Epsilon Eta	1	{4.22 F}	
20.7	22.6	H <sup>+</sup> [.]	Epsilon Eta	1	{4.10 4.40}	
21.0	23.2	H <sup>+</sup> [.]	Epsilon Eta	1	{4.33 F}	
21.7	7.3	F <sup>+</sup> [.]	5272	Kappa 10	{2 3.63}	
21.1	8.0	G5K <sup>+</sup> [.]	12	{3 {2.55 2.87}	{6.33}	
21.1	10.4	A <sup>+</sup> [.]	Epsilon Eta	1	{3.89}	
21.4	11.6	H <sup>+</sup> [.]	Epsilon Eta	1	{3.80 4.50}	

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[[preprinted]] 93 [[/preprinted]]

[[table]]  
|1875 approx. |C.P.D. Design. | 1875 R.A. |1875 Dec. | Magn. | R.A.  
1900	Dec. 1900	
6^[[h]]	17^[[m]]	-72[[symbol - degree symbol]]
17^[[m]]	21.5^[[s]]	-72[[symbol - degree symbol]]
6 8 -72 29	-72 451	6 8 54.5
5 55 -72 20	-72 424	5 54 42.8
5 50 -72 45	-72 418	5 50 20.7
5 47 -72 43	-72 414	5 47 15.5
5 43 -72 20	-72 405	5 43 14.3
5 42 -72 32	-72 403	5 42 19.5
5 25 -72 28	-72 372	5 25 0.3
5 23 -72 12	-72 369	5 23 12.0
5 12 -72 14	-72 352	5 12 15.5
5 4 -72 0	-72 343	5 4 15.0
6 14 -72 45	-72 459	6 14 55.5
6 13 -72 59	-72 457	6 13 24.5
5 57 -72 47	-72 437	5 57 41.5
5 58 -73 10	-73 344	5 58 1.0
5 39 -73 1	-73 321	5 39 12.0
5 38 -72 59	-72 394^	[-72 395]]
58.8]]	9.6^	9.1]]
5 35 -72 54	-72 386	5 34 53.0
5 32 -72 54	-72 382	5 32 6.5
5 31 -72 50	-72 379	5 31 8.5
5 29 -73 3	-73 301	5 29 17.5
5 20 -72 50	-72 363	5 19 44.0
5 18 -72 31	-72 358	5 17 44.0
5 7 -72 35	-72 344	5 7 8.5
5 2 -72 38	-72 341	5 2 43.5
6 51 -73 10	-73 409	6 51
6 46 -72 59	[[underlined]]-72 522	6[[/underlined]]
45.7	-73.1	50
6 29 -73 9	-73 382	6 29 57.5
6 21 -73 18	-73 372	6 21 43.0

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[9 columned table]

V	H	Cl.	Rem.	L.	K.	Int.	Br.	Photom.	Magn.	Diff.
21.7	12.2	A	Lambda	1	3	2.12	6.80 <sup>^</sup> [ $\cdot$ ]			
21.7	13.0	H	Epsilon	Eta	1	4.20	F.			
21.8	14.7	A	Epsilon	Eta	1	4.14				
^[[Is this not 14.92?]]										
21.8	13.9	H	Epsilon	Eta	1	3.96	4.27			
21.9	15.8	A	Epsilon	Eta	1	4.32				
21.8	16.6	H	Epsilon	Eta	1	3.73	4.10			
21.7	17.7	G	Kappa	10	1	3.93				
21.7	22.1	A	Kappa	Eta	3	2.03	6.25 <sup>^</sup> [ $\cdot$ ]	4.22		
21.9	24.1	A	Xi	Eta	2	2.91	7.18 <sup>^</sup> [ $\cdot$ ]			
21.1	24.3	F	5273	Kappa	10	3	2.40	6.18 <sup>^</sup> [ $\cdot$ ]	3.78	
22.2	96	A8F	5274	Zeta	10	1	3.32			
22.8	14.0	H	Kappa	10	2	3.70	4.08			
22.2	17.5	F5G		12	3	2.61	6.74			
22.2	17.8	Ma5b	Epsilon	Eta	3	2.82	3.24	5.61 <sup>^</sup> [ $\cdot$ ]	2.79	
22.4	19.0	K	Kappa	10	2	3.25	3.66			
22.7	19.5	K5M	Kappa	10	2	3.24	3.78			
22.5	20.5	A	Kappa	3	3	2.19	6.56 <sup>^</sup> [ $\cdot$ ]			
22.9	21.8	A	Epsilon	Eta	1	3.80				
22.4	24.1	A	Epsilon	Eta	1	3.70				
23.5	9.1	A	Epsilon	Eta	1	3.90				
^[[Comp.]]										
24.1	12.9	F8G		12	4	1.71	5.14 <sup>^</sup> [ $\cdot$ ]	3.43		
24.0	15.2	<del>[[strikethrough]]H[[/strikethrough]]</del> A	Epsilon	Eta	1					
3.90										
23.4	17.5	A	Epsilon	Eta	1	4.17				
23.4	19.9	A	Epsilon	Eta	1	4.12				
23.6	28.2	H	Epsilon	Eta	1	4.12	F			
24.6	7.2	F	5275	Kappa	10	2	3.50			
24.6	12.6	G5K	Kappa	10	2	3.37	3.70	7.43		
24.7	15.6	A	Epsilon	Eta	1	4.02	9.48			
24.3	15.9	A	Epsilon	Eta	1	4.10				

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V	H	Cl.	Rem.	L.	K.	Int.	Br.	Photom.	Magn.	Diff.
21.7	12.2	A	Lambda	1	3	2.12	6.80 <sup>^</sup> [ $\cdot$ ]			
21.7	13.0	H	Epsilon	Eta	1	4.20	F.			
21.8	14.7	A	Epsilon	Eta	1	4.14				
21.8	13.9	H	Epsilon	Eta	1	3.96	4.27			
21.9	15.8	A	Epsilon	Eta	1	4.32				
21.8	16.6	H	Epsilon	Eta	1	3.73	4.10			
21.7	17.7	G	Kappa	10	1	3.93				
21.7	22.1	A	Kappa	Eta	3	2.03	6.25 <sup>^</sup> [ $\cdot$ ]	4.22		
21.9	24.1	A	Xi	Eta	2	2.91	7.18 <sup>^</sup> [ $\cdot$ ]			
21.1	24.3	F	5273	Kappa	10	3	2.40	6.18 <sup>^</sup> [ $\cdot$ ]	3.78	
22.2	96	A8F	5274	Zeta	10	1	3.32			
22.8	14.0	H	Kappa	10	2	3.70	4.08			
22.2	17.5	F5G		12	3	2.61	6.74			
22.2	17.8	Ma5b	Epsilon	Eta	3	2.82	3.24	5.61 <sup>^</sup> [ $\cdot$ ]	2.79	
22.4	19.0	K	Kappa	10	2	3.25	3.66			
22.7	19.5	K5M	Kappa	10	2	3.24	3.78			
22.5	20.5	A	Kappa	3	3	2.19	6.56 <sup>^</sup> [ $\cdot$ ]			
22.9	21.8	A	Epsilon	Eta	1	3.80				
22.4	24.1	A	Epsilon	Eta	1	3.70				
23.5	9.1	A	Epsilon	Eta	1	3.90				
24.1	12.9	F8G		12	4	1.71	5.14 <sup>^</sup> [ $\cdot$ ]	3.43		
24.0	15.2	<del>[[strikethrough]]H[[/strikethrough]]</del> A	Epsilon	Eta	1					
3.90										
23.4	17.5	A	Epsilon	Eta	1	4.17				
23.4	19.9	A	Epsilon	Eta	1	4.12				
23.6	28.2	H	Epsilon	Eta	1	4.12	F			
24.6	7.2	F	5275	Kappa	10	2	3.50			
24.6	12.6	G5K	Kappa	10	2	3.37	3.70	7.43		
24.7	15.6	A	Epsilon	Eta	1	4.02	9.48			
24.3	15.9	A	Epsilon	Eta	1	4.10				

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[[5 Columned Table]]

1875 Approx. | C.P.D. Design 1875 R.A. | 1875 Dec. Magn. | R.A. 1900  
Dec 1900 |

---   ---   ---   ---   ---	6 <sup>h</sup> [[h]] 17 <sup>m</sup> [[m]] -73° 36'	-73 360 6 17 43.0	-73 34.7 6.3	6 17.1 -73 36
54	6 12 -73 34	-73 356 6 12 13.0	-73 33.8 9.1	
6 0 -73 36	-73 349 6 0 15.0	-73 35.9 8.9		
5 50 -73 39	-73 345 5 58 33.0	-73 38.5 8.9		Correct f14.9 intended
5 52 -73 38	-73 340 5 52 14.0	-73 38.6 9.0		
5 46 -73 36	-73 330 5 46 44.0	-73 35.1 8.9		
5 38 -73 30	-73 319 5 38 52.0	-73 29.7 9.0		
5 8 -73 12	-73 286 5 8 40.0	-73 12.0 6.4		5 8.2 -73 10   50
4 56 -72 58	-72 334 4 55 43.0	-72 57.7 7.7		4 55.2 -72 56   54
4 55 -72 36	-72 332 4 55 11.0	-72 36.8 7.1		4 54.8 -72 35   50
6 35 -73 40	-73 389 6 36 2.0	-73 38.8 8.1		
6 4 -74 8	-74 368 6 5 5.0	-74 7.2 8.9		
5 40 -73 45	-73 323 5 40 3.0	-73 45.7 7.1		5 39.5 -73 45   54
5 38 -73 49	-73 316 5 37 51.0	-73 49.0 8.0		5 <sup>h</sup> [[.]] 37.3 <sup>m</sup> [[.]] -73 <sup>h</sup> [[.]]
48 <sup>h</sup> [[.]]   50	5 30 -73 45	-73 302 5 29 38.0	-73 45.8 8.3	
5 26 -73 53	-73 296 5 25 39.0	-73 54.7 8.2		
5 18 -73 42	-73 294 5 18 20.0	-73 43.2 7.0		5 <sup>h</sup> [[.]] 17.8 <sup>m</sup> [[.]] -73 <sup>h</sup> [[.]]
41 <sup>h</sup> [[.]]   54	5 9 -73 45	-73 288 5 8 49.0	-73 45.4 8.4	
4 54 -73 12	-73 280 4 54 23.0	-73 11.9 8.4		
6 41 -74 14	-74 401 6 40 50.0	-74 11.3 8.8		
6 14 -74 43	-74 377 6 13 58.0	-74 42.7 5.9		6 <sup>h</sup> [[.]] 13.2 <sup>m</sup> [[.]] -74 <sup>h</sup> [[.]]
43 <sup>h</sup> [[.]]   50	5 55 -74 45	-74 362 5 55 51.0	-74 45.3 8.7	
5 39 -74 18	-74 339 5 39 10.0	-74 19.0 9.0		
5 22 -74 12	-74 322 5 21 32.0	-74 11.0 8.2		
4 58 -73 58	-73 284 4 58 17.0	-73 57.1 8.5		
6 57 -74 32	-74 421 6 56 45.0	-74 33.9 7.9		
6 16 -75 3	-75 368 6 16 0.5	-75 2.6 7.8		6 15.2 -75 4   54
5 52 -75 3	-75 345 5 52 55.0	-75 2.8 8.6		5 52.1 -75 3   54
5 51 -74 48	-74 357 5 50 58.0	-74 48.2 9.0		

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1875 Approx. | C.P.D. Design 1875 R.A. | 1875 Dec. Magn. | R.A. 1900  
Dec 1900 |

6<sup>h</sup>[[h]] 17<sup>m</sup>[[m]] -73° 36' -73 360 6 17 43.0 -73 34.7 6.3 6 17.1 -73 36 |

54

6 12 -73 34 -73 356 6 12 13.0 -73 33.8 9.1 |

6 0 -73 36 -73 349 6 0 15.0 -73 35.9 8.9 |

5 50 -73 39 -73 345 5 58 33.0 -73 38.5 8.9 | Correct f14.9 intended

5 52 -73 38 -73 340 5 52 14.0 -73 38.6 9.0 |

5 46 -73 36 -73 330 5 46 44.0 -73 35.1 8.9 |

5 38 -73 30 -73 319 5 38 52.0 -73 29.7 9.0 |

5 8 -73 12 -73 286 5 8 40.0 -73 12.0 6.4 | 5 8.2 -73 10 | 50

4 56 -72 58 -72 334 4 55 43.0 -72 57.7 7.7 | 4 55.2 -72 56 | 54

4 55 -72 36 -72 332 4 55 11.0 -72 36.8 7.1 | 4 54.8 -72 35 | 50

6 35 -73 40 -73 389 6 36 2.0 -73 38.8 8.1 |

6 4 -74 8 -74 368 6 5 5.0 -74 7.2 8.9 |

5 40 -73 45 -73 323 5 40 3.0 -73 45.7 7.1 | 5 39.5 -73 45 | 54

5 38 -73 49 -73 316 5 37 51.0 -73 49.0 8.0 | 5<sup>h</sup>[[.]] 37.3<sup>m</sup>[[.]] -73<sup>h</sup>[[.]]

48<sup>h</sup>[[.]] | 50

5 30 -73 45 -73 302 5 29 38.0 -73 45.8 8.3 |

5 26 -73 53 -73 296 5 25 39.0 -73 54.7 8.2 |

5 18 -73 42 -73 294 5 18 20.0 -73 43.2 7.0 | 5<sup>h</sup>[[.]] 17.8<sup>m</sup>[[.]] -73<sup>h</sup>[[.]]

41<sup>h</sup>[[.]] | 54

5 9 -73 45 -73 288 5 8 49.0 -73 45.4 8.4 |

4 54 -73 12 -73 280 4 54 23.0 -73 11.9 8.4 |

6 41 -74 14 -74 401 6 40 50.0 -74 11.3 8.8 |

6 14 -74 43 -74 377 6 13 58.0 -74 42.7 5.9 | 6<sup>h</sup>[[.]] 13.2<sup>m</sup>[[.]] -74<sup>h</sup>[[.]]

43<sup>h</sup>[[.]] | 50

5 55 -74 45 -74 362 5 55 51.0 -74 45.3 8.7 |

5 39 -74 18 -74 339 5 39 10.0 -74 19.0 9.0 |

5 22 -74 12 -74 322 5 21 32.0 -74 11.0 8.2 |

4 58 -73 58 -73 284 4 58 17.0 -73 57.1 8.5 |

6 57 -74 32 -74 421 6 56 45.0 -74 33.9 7.9 |

6 16 -75 3 -75 368 6 16 0.5 -75 2.6 7.8 | 6 15.2 -75 4 | 54

5 52 -75 3 -75 345 5 52 55.0 -75 2.8 8.6 | 5 52.1 -75 3 | 54

5 51 -74 48 -74 357 5 50 58.0 -74 48.2 9.0 |

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Sept. 18, 1903.

Plate B9062

[[8 columned table]]

[V. H. Cl. | Rem. | L. | K. | Int. | Br. | Photom. Magn. | Diff.]

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

24.5 16.5 A | Epsilon | Eta | 1 | 4.22 | 9.43 |

24.3 17.3 H | Kappa | 10 | 2 | 3.69 | 4.05 |

24.3 18.9 H | K | 10 | 2 | 3.60 | 3.98 | 8.03 |

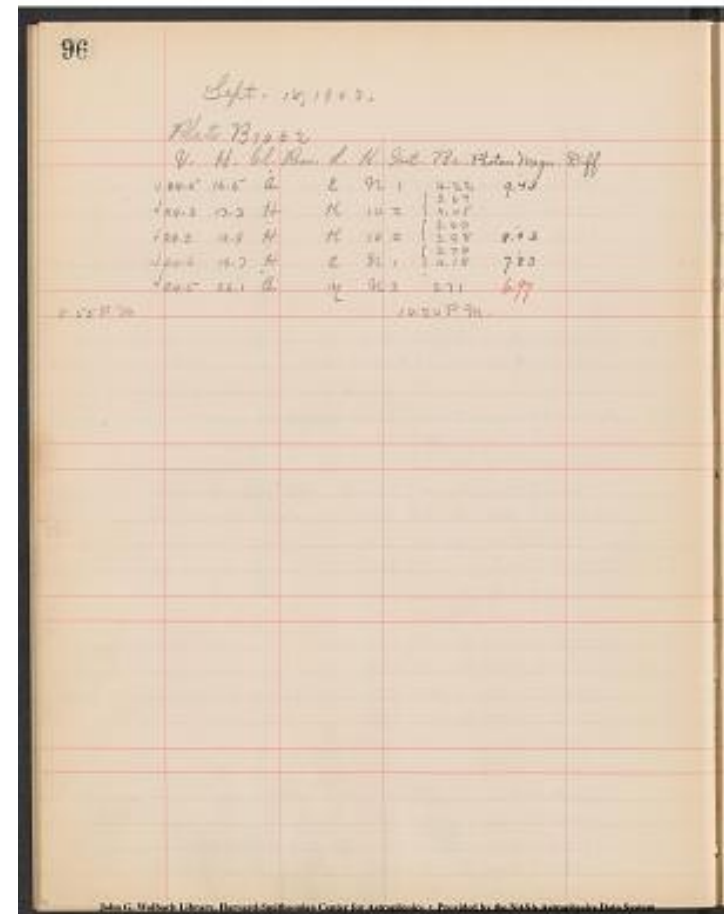
24.6 19.7 H | Epsilon | Eta | 1 | 3.70 | 4.18 | 7.83 |

24.5 22.1 A | Zeta | Eta | 3 | 27.1 | 6.97 |

8.55 P.M. | | | | | 10.20 P.M. |

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[[6 Columned Table]]

1875 Approx|C.P.D. Design 1875 RA|D1875 Dec.|Magn.|R.A. 1900  
Dec.1900| |

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

5<sup>h</sup>|[h]| 46<sup>m</sup>|[m]| -74|[0] 54<sup>s</sup>|[s]| - 74 349 5<sup>h</sup>|[h]| 46<sup>m</sup>|[m]| 32.0|[m]|-74°

54.5|[s]|8.7| 5 45.7 -74 54|54

5 40 - 74 48|-74 341 5 40 27.0 -74 46.9|8.8|

5 20 - 74 45|-74 320|]5 27 54.5 -74 44.1|8.4| 5 27.2 -74 43<sup>s</sup>|[s]|545 21 - 74 48|-74 323|5 21 56.0 -74 49.1|8.6| 5<sup>h</sup>|[h]| 21.2 -74 48|54

5 4 - 74 30|-74 312|5 4 25.0 -74 30.8|7.1| 5 3.7 - 74 29|54

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1875 Approx C.P.D. Design 1875 RA D1875 Dec Magn R.A. 1900 Dec.1900

5<sup>h</sup> | [h] | 46<sup>m</sup> | [m] | -74 | [0] 54<sup>s</sup> | [s] | - 74 349 5<sup>h</sup> | [h] | 46<sup>m</sup> | [m] | 32.0 | [m] | -74°

54.5 | [s] | 8.7 | 5 45.7 -74 54 | 54

5 40 - 74 48 | -74 341 5 40 27.0 -74 46.9 | 8.8 |

5 20 - 74 45 | -74 320 | ] 5 27 54.5 -74 44.1 | 8.4 | 5 27.2 -74 43<sup>s</sup> | [s] | 54

5 21 - 74 48 | -74 323 | 5 21 56.0 -74 49.1 | 8.6 | 5<sup>h</sup> | [h] | 21.2 -74 48 | 54

5 4 - 74 30 | -74 312 | 5 4 25.0 -74 30.8 | 7.1 | 5 3.7 - 74 29 | 54

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
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Sept. 21, 1903.

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

[[8 Columned Table]]

[V. H. Cl. | Rem. | L. | K. | Int. | Br. | Photom. Magn. | Diff.]

-----

4.2 6.1 A<sup>+</sup>[[.]] | epsilon|eta|1|4.29|  
 4.0 7.1 F<sup>+</sup>[[.]] | 5276|kappa|10|1|4.32|  
 4.3 9.4 A<sup>+</sup>[[.]] | epsilon|eta|1|4.22|  
 4.0 14.7 A<sup>+</sup>[[.]] | epsilon|eta|1|4.20|  
 4.3 16.9 A<sup>+</sup>[[.]] | theta|eta|2|3.54|  
 3.9 18.9 A<sup>+</sup>[[.]] | zeta|eta|2|3.82|  
 5.5 14.0 H<sup>+</sup>[[.]] | kappa|10|1|4.32 F|  
 6.1 ~~[[.]]~~ | ~~[[.]]~~ | 6.6 A<sup>+</sup>[[.]] | epsilon|eta|1|4.25|  
 6.8 6.8 G<sup>+</sup>[[.]] | kappa|10|2|3.84|  
 6.4 7.7 H<sup>+</sup>[[.]] | kappa|10|2|3.69 4.06|  
 6.0 7.8 A<sup>+</sup>[[.]] | epsilon|eta|1|4.35|  
 6.8 9.4 A<sup>+</sup>[[.]] | kappa|eta|1.93|5.94|  
 6.5 10.3 K<sup>+</sup>[[.]] | kappa|10|2|3.293.62|6.40|  
 6.2 10.9 F<sup>+</sup>[[.]] | 5277|kappa|10|1|4.18|  
 6.3 11.7 H<sup>+</sup>[[.]] | epsilon|eta|1|4.07 4.50|  
 6.2 19.3 F<sup>+</sup>[[.]] | 5278|kappa|10|2|3.91|  
 5.9 21.0 A<sup>+</sup>[[.]] | epsilon|eta|1|4.40|  
 6.3 21.2 F<sup>+</sup>[[.]] | 5279|kappa|10|1|4.27|  
 6.1 23.8 F<sup>+</sup>[[.]] | 5280|kappa|10|1|4.34|8.09|  
 7.5 14.8 A<sup>+</sup>[[.]] | zeta|eta|2|3.70|  
 7.5 21.4 G<sup>+</sup>[[.]] | kappa|10|2|3.85|6.99|  
 7.7 23.7 G<sup>+</sup>[[.]] | kappa|10|1|4.18|  
 8.5 6.8 A<sup>+</sup>[[.]] | epsilon|eta|1|4.18|  
 8.2 7.7 A<sup>+</sup>[[.]] | zeta|eta|2|3.95|  
 8.1 7.9 H<sup>+</sup>[[.]] | epsilon|eta|1|4.26 F|  
 8.5 10.2 ~~[[.]]~~ | ~~[[.]]~~ | A<sup>+</sup>[[.]] | epsilon|eta|1|4.20|  
 8.8 10.6 H<sup>+</sup>[[.]] | epsilon|eta|1|4.35 F|  
 8.1 10.9 K<sup>+</sup>[[.]] | kappa|10|2|3.75 4.18|  
 9.0 12.2 A<sup>+</sup>[[.]] | theta|eta|2|3.25|

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Sept. 21, 1903

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

V.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photom.	Magn.	Diff.
4.2	6.1	A <sup>+</sup>							4.29	
4.0	7.1	F <sup>+</sup>	5276		K				4.32	
4.3	9.4	A <sup>+</sup>							4.22	
4.0	14.7	A <sup>+</sup>							4.20	
4.3	16.9	A <sup>+</sup>							3.54	
3.9	18.9	A <sup>+</sup>							3.82	
5.5	14.0	H <sup>+</sup>							4.32	F
6.1										
6.8	6.8	G <sup>+</sup>							3.84	
6.4	7.7	H <sup>+</sup>							3.69	4.06
6.0	7.8	A <sup>+</sup>							4.35	
6.8	9.4	A <sup>+</sup>							1.93	5.94
6.5	10.3	K <sup>+</sup>							3.293.62	6.40
6.2	10.9	F <sup>+</sup>	5277						4.18	
6.3	11.7	H <sup>+</sup>							4.07	4.50
6.2	19.3	F <sup>+</sup>	5278						3.91	
5.9	21.0	A <sup>+</sup>							4.40	
6.3	21.2	F <sup>+</sup>	5279						4.27	
6.1	23.8	F <sup>+</sup>	5280						4.34	8.09
7.5	14.8	A <sup>+</sup>							3.70	
7.5	21.4	G <sup>+</sup>							3.85	6.99
7.7	23.7	G <sup>+</sup>							4.18	
8.5	6.8	A <sup>+</sup>							4.18	
8.2	7.7	A <sup>+</sup>							3.95	
8.1	7.9	H <sup>+</sup>							4.26	F
8.5	10.2									
8.8	10.6	H <sup>+</sup>							4.35	F
8.1	10.9	K <sup>+</sup>							3.75	4.18
9.0	12.2	A <sup>+</sup>							3.25	

8.09

6.99

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[[table]]

1875 approx. |C.P.D. Design. 1875 R.A. |1875 Dec. Magn. | R.A. 1900  
Dec. 1900| |

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

8 2-64 16|-64 815 8^[[h]] 2^[[m]] 26.0[[s]]|-64[[symbol - degree symbol]] -  
6.4' 8.1||

7 57-64 13|-64 794^[[.]] 7 57 27.0|-64 12.1 8.2||

7 47-64 30|-64 757^[[.]] 7 47 24.5|-64 30.4 8.3||

7 22-64 27|-64 711^[[.]] 7 22 30.5|-64 26.7 8.1||

7 13-64 38|-64 686^[[.]] 7 12 29.0|-64 39.4 7.3||

7 3-64 18|-64 660^[[.]] 7 3 19.5|-64 18.0 7.8||

6 26-65 19|-65 762^[[.]] 6 26 12.0|-65 20.4 8.4||

8 2-65 15|-65 857^[[.]] 8 1 26.5|-65 14.2 8.6||

8 2-65 38|-65 858^[[.]] 8 1 30.5|-65 39.8 8.3||

7 57-65 36|-65 846^[[.]] 7 56 40.5|-65 34.0 8.5||

7 55-65 15|-65 843^[[.]] 7 55 34.0|-65 16.7 8.7||

7 49-65 52|-65 827^[[.]] 7 48 50.5|-65 52.7 6.3 7 49|-65 57|50

7 74-65 47|-65 806^[[.]] 7 43 56.0|-65 46.1 8.1 7 44.1|-65 50|50

7 41-65 30|-65 796^[[.]] 7 40 55.0|-65 29.3 8.4||

7 37-65 38|-65 785^[[.]] 7 36 50.5|-65 37.9 8.4||

7 0-65 30|-65 686^[[.]] 7 0 38.8|-65 31.6 8.0||

6 52-65 15|-65 666^[[.]] 6 52 25.5|-65 15.9 8.3||

6 51-65 28|-65 663^[[.]] 6 51 23.0|-65 27.8 8.0||

6 39-65 10|-65 636^[[.]] 6 39 13.0|-65 9.3 8.1 6 39.3|-65 10|54

7 22-66 18|-66 687^[[.]] 7 22 23.0|-66 17.6 7.8||

6 49-66 8|-66 608^[[.]] 6 49 49.0|-66 8.6 7.9 6 49.8|-66 11|54

6 38-65 59|-65 631^[[.]] 6 38 11.7|-65 58.3 8.0||

8 2-66 28|-66 792^[[.]] 8 2 29.5|-66 28.9 8.6||

7 57-66 26|-66 783^[[.]] 7 57 44.5|-66 25.9 8.3||

7 56-66 26|-66 778^[[.]] 7 56 26.0|-66 25.7 9.0||

7 45-66 45|-66 743^[[.]] 7 45 9.0|-66 45.7 8.7||

7 43-66 45|-66 743^[[.]] 7 43 31.5|-66 53.9 8.8||

7 42-66 36|-66 733^[[.]] 7 41 45.5|-66 36.1 8.5||

7 35-67 6|-67 785^[[.]] 7 35 56.5|-67 5.7 7.5||

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R.A.	Dec.	Magn.	Pos.
8 2-64 16	-64 815	8.1	26.0
7 57-64 13	-64 794	8.2	12.1
7 47-64 30	-64 757	8.3	24.5
7 22-64 27	-64 711	8.1	30.5
7 13-64 38	-64 686	7.3	29.0
7 3-64 18	-64 660	7.8	19.5
6 26-65 19	-65 762	8.4	12.0
8 2-65 15	-65 857	8.6	26.5
8 2-65 38	-65 858	8.3	30.5
7 57-65 36	-65 846	8.5	40.5
7 55-65 15	-65 843	8.7	34.0
7 49-65 52	-65 827	6.3	50.5
7 74-65 47	-65 806	8.1	46.1
7 41-65 30	-65 796	8.4	55.0
7 37-65 38	-65 785	8.4	50.5
7 0-65 30	-65 686	8.0	38.8
6 52-65 15	-65 666	8.3	25.5
6 51-65 28	-65 663	8.0	23.0
6 39-65 10	-65 636	8.1	13.0
7 22-66 18	-66 687	7.8	23.0
6 49-66 8	-66 608	7.9	49.0
6 38-65 59	-65 631	8.0	11.7
8 2-66 28	-66 792	8.6	29.5
7 57-66 26	-66 783	8.3	44.5
7 56-66 26	-66 778	9.0	26.0
7 45-66 45	-66 743	8.7	9.0
7 43-66 45	-66 743	8.8	31.5
7 42-66 36	-66 733	8.5	45.5
7 35-67 6	-67 785	7.5	56.5

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
(South Draper Catalog) #82  
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Plate B 9003

[[7 Columned Table]]

| V. H. Cl. | Rem | L. K. | Int. Br. | Photom. Magn. | Diff. |

V. H. Cl.	Rem	L. K.	Int. Br.	Photom. Magn.	Diff.
8.6 13.1 H		Kappa 10 1	{4.1 4.30}		
8.3 13.7 F	5281		Kappa 10 2	{3.84}	
8.1 16.1 A		Epsilon N 1	{4.31}		
8.6 17.1 G5K		Kappa 10 2	{3.92 4.18}		
8.5 17.9 G5K		Kappa 10 2	{3.72 4.10}		
8.4 18.6 F	5282		Kappa 10 2	{3.80}	
8.7 19.7 F	5283		Kappa 10 1	{4.24}	
8.2 22.6 A		Xi N 2	{3.99}		
9.2 6.7 A		Zeta N 2	{3.57}		
10.0 7.8 A		Xi N 2	{3.77}		
9.8 9.3 A		Xi N 2	{3.80}		
9.2 10.3 A		Theta N 2	{3.56}		
9.7 11.1 F	5284		Kappa 10 1	{3.95}	
9.1 11.8 F	5285		Zeta 10 2	{3.57}	
9.4 12.1 G		Kappa 10 1	{4.20}		
9.0 14. [[strike through]] 8 [[strike through]] 7 A		Epsilon N 1	{4.20}		
10.0 15.8 F8 G Pic.		12 4	{1.59 4.02}		
9.9 16.7 [[strike through]] k [[strike through]] G		Kappa 10 1	{3.69}		
10.2 7.2 A		Epsilon N 1	{3.90}		
10.8 11.7 A		Xi N 2	{3.67}		
v 10.3 14.6 A		Xi 5 2	{3.80}		
10.4 16.1 G		Kappa 10 1	{4.00}		
10.3 16.9 K		K 10 1	{3.85 4.13}		
10.3 17.5 A		Xi N 2	{3.61}		
10.3 19.0 K5M		Kappa 10 3	{2.51 3.37 5.08}		
10.6 22.0 F	5286		Kappa 10 1	{4.25}	
10.8 22.3 A		Theta N 2	{2.75 686}		
10.8 24.4 A		Epsilon N 1	{4.06}		
11.9 6.4 A		Mu N 4	{1.22 4.46}		

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Plate B9003

V. H. Cl.	Rem	L. K.	Int. Br.	Photom. Magn.	Diff.
8.6 13.1 H		K	10 1	4.11	
8.3 13.7 F	5281		K	10 2	3.84
8.1 16.1 A		E	N 1	4.31	
8.6 17.1 G5K		K	10 2	3.92	4.18
8.5 17.9 G5K		K	10 2	3.72	4.10
8.4 18.6 F	5282		K	10 2	3.80
8.7 19.7 F	5283		K	10 1	4.24
8.2 22.6 A		X	N 2	3.99	
9.2 6.7 A		Z	N 2	3.57	
10.0 7.8 A		X	N 2	3.77	
9.8 9.3 A		X	N 2	3.80	
9.2 10.3 A		T	N 2	3.56	
9.7 11.1 F	5284		K	10 1	3.95
9.1 11.8 F	5285		Z	10 2	3.57
9.4 12.1 G		K	10 1	4.20	
9.0 14. [[strike through]] 8 [[strike through]] 7 A		E	N 1	4.20	
10.0 15.8 F8 G Pic.		12 4		1.59 4.02	
9.9 16.7 [[strike through]] k [[strike through]] G		K	10 1	3.69	
10.2 7.2 A		E	N 1	3.90	
10.8 11.7 A		X	N 2	3.67	
v 10.3 14.6 A		X	5 2	3.80	
10.4 16.1 G		K	10 1	4.00	
10.3 16.9 K		K	10 1	3.85 4.13	
10.3 17.5 A		X	N 2	3.61	
10.3 19.0 K5M		K	10 3	2.51 3.37 5.08	
10.6 22.0 F	5286		K	10 1	4.25
10.8 22.3 A		T	N 2	2.75 686	
10.8 24.4 A		E	N 1	4.06	
11.9 6.4 A		M	N 4	1.22 4.46	

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[[table]]

1875 approx. | C.P.D. Design. 1875 R.A. | 1875 Dec. Magn. | R.A. 1900  
Dec. 1900 |

7 30-66 54-66 707 7 31 1.0 -66 54.8 8.6
7 27-66 43-66 700 7 27 31.5 -66 43.2 8.3
7 15-66 36-66 669 7 15 56.5 -66 34.7 8.5
7 10-66 50 -66 661 7 10 48.0 -66 51.2 8.3
{-66 662 7 10 55.0 -66 53.4 8.8}
7 6-66 48 -66 655 7 6 39.0 -66 49.0 8.3
7 2-66 42 -66 646 7 3 2.0 -66 42.2 8.3
6 57-66 48 -66 632 6 57 43.5 -66 49.0 8.7
6 42-66 23 -66 594 6 43 10.0 -66 22.2 8.1
8 4-66 43 -66 796 8 3 45.0 -66 51.0 7.8
7 58-67 19 -67 858 7 58 23.5 -67 20.2 8.4
7 50-67 20 -67 630 7 50 35.5 -67 20.9 8.3
7 46-67 24 -67 811 7 45 37.0 -67 7.4 8.0
7 41-67 24 -67 799 7 41 14.3 -67 22.8 8.5
7 38-67 11 -67 788 7 37 52.7 -67 9.5 7.9
7 36-67 18 -67 786 7 36 18.5 -67 19.4 8.6
7 22-67 3 -67 741 7 22 16.5 -67 3.2 8.5
7 16-67 43 -67 730 7 16 52.0 -67 43.6 5.5 7 16.9 -67 46 50
7 12-67 32 -67 720 7 12 16.5 -67 33.6 7.9
8 2-67 25 -67 866 8 1 48.0 -67 26.4 8.2
{-67 765 8 1 45.0 -67 22.0 8.8}
7 38-67 59 -67 7917 38 30.5 -67 58.9 7.6
7 23-67 45 -67 756 7 23 28.5 -67 46.3 7.9
7 15-67 49 -67 726 7 15 2.5 -67 50.5 8.2
7 7-67 44 -67 719 7 11 6.0 -67 44.9 8.4
7 7-67 44 -67 710 7 7 54.8 -67 44.1 7.6
7 0-67 44 -67 686 7 0 2.0 -67 44.7 6.8 7 0.1 -67 47 50
6 44-67 33 -67 650 6 44 29.0 -67 34.1 8.5
6 42-67 43 -67 645 6 42 43.0 -67 43.0 6.8 6 42.6-67 45 54
6 31-67 30 -67 611 6 31 32.0 -67 29.2 8.4
8 7-67 15 -68 736 8 7 31.0 -68 15.0 5.0  8^[[.]]
7. <del>[[.]]</del> 8 <del>[[.]]</del> 6^[[.]] - 68^[[.]] 19^[[.]] 50

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[[10 column table]]

V. | H. | bl. | Rem. | L. | K. | Int. | Br. | Photom. | Magn. | Diff. |

V.	H.	bl.	Rem.	L.	K.	Int.	Br.	Photom.	Magn.	Diff.		
12.0	6.7	A		Xi	N	2	3.72					
11.3	12.1	A		Xi	N	2	3.70					
11.7	12.7	A		Theta	2	3	2.73	6.72	^	[.]]		
11.4	13.8	F2G		Kappa	10	2	3.30					
12.0	17.6	G		Kappa	10	2	3.41	6.46				
11.6	19.6	K		Kappa	10	2	[[top half]]	3.56	4.05			
1	[[strikethrough]]	3	[[strikethrough]]	2.8	6.3	A		Theta	N	2	3.00	
12.5	6.5	A		Theta	N	2	3.39					
12.5	7.3	G		Kappa	10	2	3.36					
12.5	8.9	A		Epsilon	N	1	4.10					
12.3	12.2	A		Theta	N	2	2.92	6.99	^	[.]]		
12.8	15.3	H		Epsilon	N	1	{4.10	F				
11.8	24.1	G		Kappa	10	1	4.04					
13.8	7	[[strikethrough]]	8	[[strikethrough]]	0	H		Epsilon	N	1	{4.10	F
14.0	7.8	H		Kappa	10	1	{3.85	4.20				
13.8	8.7	F	5287	Kappa	10	1	4.25					
13.3	10.5	A		Epsilon	N	1	4.03					
13.8	10.8	A		[[Psi?]]	N	3	2.40	6.21	^	[.]]		
13.8	11.5	H		Kappa	10	1	{3.75	4.10				
13.2	13.8	A		Epsilon	N	1	4.20					
13.3	13.9	F	5288	K	10	2	3.75	4.03				
13.5	21.6	A		Epsilon	N	1						
13.4	23.9	A		[[strikethrough]]	Epsilon	[[strikethrough]]	Zeta	N	2	3.72		
14.2	5.5	A		Zeta	N	2	3.29					
14.3	6.1	G		Kappa	10	1	3.90					
14.5	6.8	A		Theta	N	2	3.41					
14.4	7.2	H		Epsilon	N	1	{4.18	F				
14.5	7.6	A		Iota	N	3	2.61	6.77	^	[.]]		
14.5	7.9	F	5289	Kappa	10	2	3.62	6.82	^	[.]]		

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V. | H. | bl. | Rem. | L. | K. | Int. | Br. | Photom. | Magn. | Diff. |

V.	H.	bl.	Rem.	L.	K.	Int.	Br.	Photom.	Magn.	Diff.		
12.0	6.7	A		Xi	N	2	3.72					
11.3	12.1	A		Xi	N	2	3.70					
11.7	12.7	A		Theta	2	3	2.73	6.72	^	[.]]		
11.4	13.8	F2G		Kappa	10	2	3.30					
12.0	17.6	G		Kappa	10	2	3.41	6.46				
11.6	19.6	K		Kappa	10	2	[[top half]]	3.56	4.05			
1	[[strikethrough]]	3	[[strikethrough]]	2.8	6.3	A		Theta	N	2	3.00	
12.5	6.5	A		Theta	N	2	3.39					
12.5	7.3	G		Kappa	10	2	3.36					
12.5	8.9	A		Epsilon	N	1	4.10					
12.3	12.2	A		Theta	N	2	2.92	6.99	^	[.]]		
12.8	15.3	H		Epsilon	N	1	{4.10	F				
11.8	24.1	G		Kappa	10	1	4.04					
13.8	7	[[strikethrough]]	8	[[strikethrough]]	0	H		Epsilon	N	1	{4.10	F
14.0	7.8	H		Kappa	10	1	{3.85	4.20				
13.8	8.7	F	5287	Kappa	10	1	4.25					
13.3	10.5	A		Epsilon	N	1	4.03					
13.8	10.8	A		[[Psi?]]	N	3	2.40	6.21	^	[.]]		
13.8	11.5	H		Kappa	10	1	{3.75	4.10				
13.2	13.8	A		Epsilon	N	1	4.20					
13.3	13.9	F	5288	K	10	2	3.75	4.03				
13.5	21.6	A		Epsilon	N	1						
13.4	23.9	A		[[strikethrough]]	Epsilon	[[strikethrough]]	Zeta	N	2	3.72		
14.2	5.5	A		Zeta	N	2	3.29					
14.3	6.1	G		Kappa	10	1	3.90					
14.5	6.8	A		Theta	N	2	3.41					
14.4	7.2	H		Epsilon	N	1	{4.18	F				
14.5	7.6	A		Iota	N	3	2.61	6.77	^	[.]]		
14.5	7.9	F	5289	Kappa	10	2	3.62	6.82	^	[.]]		

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[[6 Columned Table]]

[V. H. CL.] [Rem.] [L. K.] [Int. Br.] [Photom. Magn.] [Diff.]

[---][---][---][---][---][---]

14.9 8.2 A| Epsilon N|1 3.93|  
 14.5 9.7 F|5290|Kappa 10|1 4.04|  
 14.3 11.0 F|5291|Kappa 10|1 3.92|  
 14.3 11.9 A| Epsilon N|1 4.28|  
 14.6 12.5 H| Epsilon N|1 {4.05 4.40|8.52|  
 14.9 12.0 F|5292|Kappa 10|1 3.90|8.32|  
 14.9 14.1 H| Epsilon N|1 {4.00|8.08|  
 14.7 14.7 L|5293|Kappa 10|1 4.20|  
 14.6 15.1 L|5294|Kappa 10|2 3.91|8.22|  
 14.4 16.5 K| Kappa 10|2 {3.50 3.75|7.02|  
 14.6 19.3 H| Epsilon N|1 {4.10|  
 14.5 20.1 G| Kappa 10|2 {3.44 8.70|6.68|  
 14.4 21.6 A| Zeta N|2 3.25|  
 15.0 24.4 K| 12|3 {2.38 2.80|5.40|  
 15.7 5.6 A| Epsilon N|1 4.00|  
 15.8 6.4 A| Epsilon N|1 3.92|8.87|  
 15.3 7.6 A| Iota N|3 2.93|7.22|  
 15.8 8.9 F|5295|Kappa 10|1 4.07|  
 15.3 9.8 A| Epsilon N|1 4.22|  
 15.8 9.9 F|5295|Xi 10|2 3.78|  
 15.1 11.7 A| Epsilon N|1 4.11|9.28|  
 15.1 12.4 K| Kappa 10|2 {3.49 3.83|9.28|  
 15.6 13.7 H| Epsilon N|1 {4.18|7.38|  
 15.7 14.3 A| Zeta N|2 3.80|  
 15.4 14.4 K| Kappa N|2 {3.35 3.83|  
 15.1 16.8 G.Pic|5297| 12|4 1.15|{5.81 3.87|  
 15.4 17.8 A| Xi N|2 3.33|  
 15.5 19.1 A| Theta N|2 3.00|7.22|  
 15.6 19.5 H| Epsilon N|1 {3.70 4.04|

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V. H. CL. Rem. L. K. Int. Br. Photom. Magn. Diff.

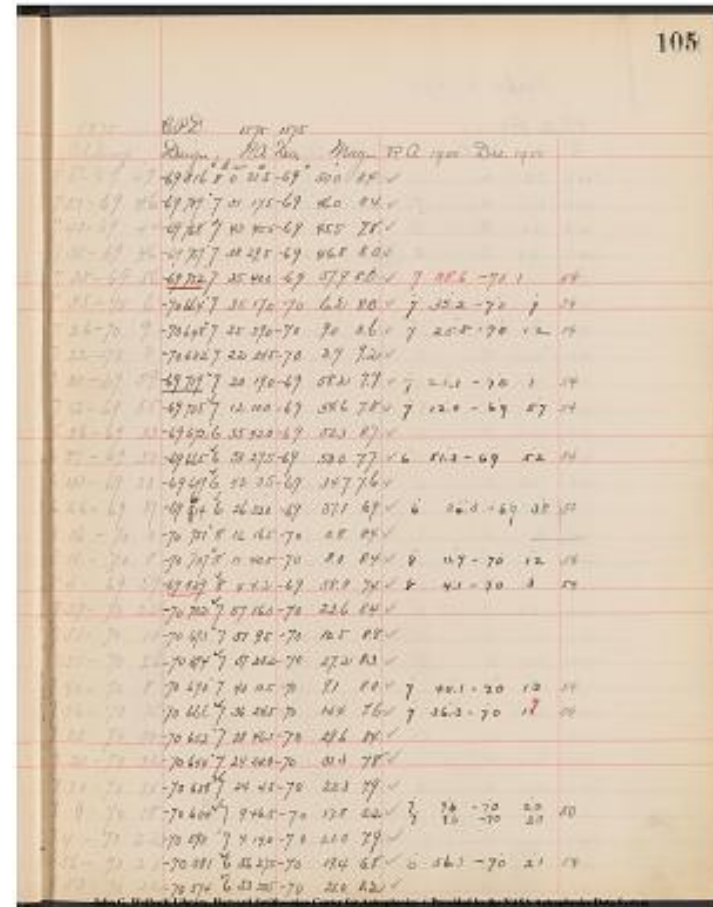
1499 8.2 A| E N|1 3.93|  
 1495 9.7 F|5290 K 10|1 4.04|  
 1493 11.0 F|5291 K 10|1 3.92|  
 1492 11.9 A| E N|1 4.28|  
 1490 12.5 H| E N|1 {4.05 4.40|8.52|  
 1489 12.0 F|5292 K 10|1 3.90|8.32|  
 1487 14.1 H| E N|1 {4.00|8.08|  
 1485 14.7 L|5293 K 10|1 4.20|  
 1484 15.1 L|5294 K 10|2 3.91|8.22|  
 1482 16.5 K| K 10|2 {3.50 3.75|7.02|  
 1481 19.3 H| E N|1 {4.10|  
 1480 20.1 G| K 10|2 {3.44 8.70|6.68|  
 1478 21.6 A| Z N|2 3.25|  
 1500 24.4 K| 12|3 {2.38 2.80|5.40|  
 1507 5.6 A| E N|1 4.00|  
 1508 6.4 A| E N|1 3.92|8.87|  
 1503 7.6 A| I N|3 2.93|7.22|  
 1508 8.9 F|5295 K 10|1 4.07|  
 1503 9.8 A| E N|1 4.22|  
 1508 9.9 F|5295 Xi 10|2 3.78|  
 1501 11.7 A| E N|1 4.11|9.28|  
 1501 12.4 K| K 10|2 {3.49 3.83|9.28|  
 1506 13.7 H| E N|1 {4.18|7.38|  
 1507 14.3 A| Z N|2 3.80|  
 1504 14.4 K| K N|2 {3.35 3.83|  
 1501 16.8 G.Pic|5297| 12|4 1.15|{5.81 3.87|  
 1504 17.8 A| Xi N|2 3.33|  
 1505 19.1 A| Theta N|2 3.00|7.22|  
 1506 19.5 H| E N|1 {3.70 4.04|

Project PHaEDRA - Williamina P. Fleming - Measures of Spectrum Plates  
 (South Draper Catalog) #82  
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[[table]]  
 1875 approx. | C.P.D. Design. 1875 R.A. | 1875 Dec. Magn. | R.A. 1900  
 Dec. 1900 |

8 <sup>h</sup> [[h]] 0 <sup>m</sup> [[m]]	-69 <sup>°</sup> [[degree symbol]] 49'	-69 816 8 <sup>h</sup> [[h]] 0 <sup>m</sup> [[m]]			
31.5 <sup>s</sup> [[s]]	-69 <sup>°</sup> [[degree symbol]] 50.0'	8.4			
7 51 - 69 46	-69 789'7 51 17.5	-69 46.0 8.4			
7 43 - 69 44	-69 768'7 43 45.5	-69 45.5 7.8			
7 38 - 69 46	-69 757'7 38 29.5	-69 46.8 8.0			
7 35 - 69 56	-69 752'7 35 40.0	-69 57.9 8.0		7 35.6 - 70 1	54
7 35 - 70 6	-70 664'7 35 17.0	-70 6.2 8.0		7 35.2 - 70 9	54
7 26 - 70 9	-70 648'7 25 59.0	-70 9.0 8.6		7 25.8 - 70 12	54
7 22 - 70 3	-70 632'7 22 24.5	-70 3.9 9.2			
7 20 - 69 59	-69 719'7 20 19.0	-69 58.2 7.7		1 20.1 - 70 1	54
7 12 - 69 55	-69 705'7 12 10.0	-69 54.6 7.8		7 12.0 - 69 57	54
6 56 - 69 53	-69 672'6 55 42.0	-69 52.3 8.7			
6 51 - 69 50	-69 665'6 51 27.5	-69 50.0 7.7		6 51.3 - 69 52	54
6 43 - 69 33	-69 649'6 43 3.5	-69 34.7 7.6			
6 26 - 69 37	-69 614'6 26 32.0	-69 37.1 6.9		6 26.3 - 69 38	50
8 16 - 70 0	-70 751'8 16 16.5	-70 0.8 8.4			
8 11 - 70 8	-70 737'8 11 40.5	-70 8.0 8.4		8 11.7 - 70 12	54
8 4 - 69 59	-69 829'8 4 4.2	-69 58.8 7.4		8 4.1 - 70 3	54
7 57 - 70 22	-70 702'7 57 16.0	-70 22.6 8.4			
7 51 - 70 10	-70 693'7 51 9.5	-70 10.5 8.8			
7 51 - 70 26	-70 694'7 51 23.2	-70 27.2 8.3			
7 40 - 70 8	-70 673'7 40 10.5	-70 9.1 8.0		7 40.1 - 70 13	54
7 36 - 70 15	-70 666'7 36 24.5	-70 14.4 7.6		7 36.3 - 70 17	54
7 28 - 70 30	-70 652'7 28 46.5	-70 29.6 8.4			
7 24 - 70 32	-70 644'7 24 52.0	-70 31.3 7.8			
7 24 - 70 24	-70 638'7 24 4.5	-70 23.3 7.9			
7 9 - 70 18	-70 600'7 9 46.5	-70 17.8 5.2		7 9.6 - 70 2.0	50
7 4 - 70 22	-70 593'7 4 19.0	-70 21.0 7.9			
6 56 - 70 21	-70 581'6 56 27.5	-70 19.4 6.8		6 56.3 - 70 21	54
6 53 - 70 22	-70 574'6 53 50.5	-70 21.0 8.2			

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[[10 Columned Table]]

V. | H. | CL. | Rem. | L. | K. | Int. | Br. | Photom. Magn. | Diff. |

15.8	20.7	H		Epsilon	N	1		4.25 ^3.98		
15.6	20.8	K		Kappa	10	3		3.68 ^3.00	5.88	
15.7	24.7	K		Kappa	10	3		3.35 ^3.53	5.56	
16.3	6.7	F	5298	Kappa	1	4	00			
17.0	14.2	A		Theta	2	3	2.40	6.52		
16.9	17.2	F	5299	Kappa	10	1	3.59			
16.4	19.6	B8A	5300	Lambda	N	4	1.76	5.52		
16.9	20.4	A		Epsilon	N	1	4.20			
16.2	21.4	A		Zeta	5	2	3.22			
16.9	21.9	A		Epsilon	N	2	3.75			
16.2	23.0	F	5301	Kappa	10	2	3.51			
16.4	23.0	F	5302	Kappa	10	2	3.60			
16.1	24.4	F	5303	Kappa	10	1	3.78	7.89		
17.3	6.5	F	5304	Kappa	10	2	3.73			
17.4	6.8	A		Epsilon	N	1	4.40			
17.3	8.6	F	5305	Kappa	10	1	4.31			
17.6	9.6	A		Epsilon	N	1	4.30			
17.6	10.7	F	5306	Xi	10	2	3.70			
17.2	11.3	H		Epsilon	N	1	4.40	^3.93		
17.6	11.6	K		Kappa	10	2	3.98	^3.43		
18.0	14.4	A		Epsilon	N	1	4.28			
17.1	14.8	H		Epsilon	N	1	F ^4.25			
17.6	15.3	F2gamma		Kappa	10	2	3.28			
17.2	18.0	F	5307	Kappa	10	1	4.10			
17.3	21.1	H		Kappa	10	1	4.40	^3.95		
17.2	21.2	H		Kappa	10	1	F ^4.15			
17.6	24.1	A		Xi	h	2	3.92			
18.0	5.4	A		Lambda	N	4	2.00	5.72 ^5.44		
18.9	5.8	<del>[[strickethrough]]</del>		<del>A</del>	<del>[[strickethrough]]</del>					

[[/table]]

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Plate B9003

V.	H.	CL.	Rem.	L.	K.	Int.	Br.	Photom.	Magn.	Diff.
15.8	20.7	H		E	N	1		4.25	^3.98	
15.6	20.8	K		K	10	3		3.68	^3.00	5.88
15.7	24.7	K		K	10	3		3.35	^3.53	5.56
16.3	6.7	F	5298	K	1	4	00			
17.0	14.2	A		Θ	2	3	2.40	6.52		
16.9	17.2	F	5299	K	10	1	3.59			
16.4	19.6	B8A	5300	Λ	N	4	1.76	5.52		
16.9	20.4	A		E	N	1	4.20			
16.2	21.4	A		ζ	5	2	3.22			
16.9	21.9	A		E	N	2	3.75			
16.2	23.0	F	5301	K	10	2	3.51			
16.4	23.0	F	5302	K	10	2	3.60			
16.1	24.4	F	5303	K	10	1	3.78	7.89		
17.3	6.5	F	5304	K	10	2	3.73			
17.4	6.8	A		E	N	1	4.40			
17.3	8.6	F	5305	K	10	1	4.31			
17.6	9.6	A		E	N	1	4.30			
17.6	10.7	F	5306	Ξ	10	2	3.70			
17.2	11.3	H		E	N	1	4.40	^3.93		
17.6	11.6	K		K	10	2	3.98	^3.43		
18.0	14.4	A		E	N	1	4.28			
17.1	14.8	H		E	N	1	F ^4.25			
17.6	15.3	F2gamma		K	10	2	3.28			
17.2	18.0	F	5307	K	10	1	4.10			
17.3	21.1	H		K	10	1	4.40	^3.95		
17.2	21.2	H		K	10	1	F ^4.15			
17.6	24.1	A		Ξ	h	2	3.92			
18.0	5.4	A		Λ	N	4	2.00	5.72 ^5.44		
18.9	5.8	<del>[[strickethrough]]</del>		<del>A</del>	<del>[[strickethrough]]</del>					

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[[5 Columned Table]]

1875 Approx | C.P.D. Design 1875 R.A | 1875 Dec. Magn | R.A 1900  
Dec. 1900 |

6 <sup>h</sup> [[h]]	47 <sup>m</sup> [[m]]	-70° 24'	-70° 564 6 <sup>h</sup> [[h]]	47 <sup>m</sup> [[m]]	6.5 <sup>s</sup> [[s]]	-70 23.0 8.3
6 46 -70 18	-70 560 6 46 10.5	-70 17.8 7.7	6 46.0 -70 20	50		
6 23 -69 54	-69 607 6 23 49.0	-69 55.0 7.6	6 23.6 -69 56	50		
8 10 -70 26	-70 732 *8 10 50.5	-70 24.4 8.2				
7 25 -71 14	-71 574 7 25 54.0	-71 13.1 6.8	7 25.7 -71 16	54		
7 6 -71 6	-71 524 7 7 3.5	-71 5.0 8.1				
6 5.2 -70 48	-70 572 6 52 49.5	-70 48.4 5.0	6 52.6 -70 50	50		
6 47 -70 54	-70 565 *6 47 41.5	-70 53.5 7.8				
6 42 -70 30	-70 552 6 42 26.0	-70 31.6 7.2				
6 38 -70 48	-70 542 6 38 41.0	-70 48.2 7.8				
6 39 -70 29	-70 543 6 39 2.0	-70 29.2 7.7				
6 32 -70 25	-70 533 6 32 36.0	-70 25.1 7.8				
6 24 -70 6	-70 515 6 25 20.0	-70 6.9 8.0	6 25.0 -70 8	54		
8 12 -70 54	-70 738 8 12 38.5	-70 53.0 8.0				
8 11 -70 58	-70 735 *8 11 17.2	-70 57.2 8.4				
8 0 -71 6	-71 642 8 0 1.5	-71 5.3 8.4				
7 54 -71 18	-71 628 *7 54 6.0	-71 18.1 8.8				
7 47 -71 24	-71 618 7 47 21.0	-71 24.5 7.6				
7 44 -71 15	-71 612 7 43 55.0	-71 14.3 8.2				
7 41 -71 28	-71 607 7 41 59.0	-71 27.9 7.7				
7 24 -71 43	-71 570 *7 24 22.0	-71 42.7 8.0				
7 22 -71 18	-71 565 *7 22 17.0	-71 17.4 9.0				
7 18 -71 32	-71 557 7 18 29.0	-71 31.2 7.7				
7 2 -71 12	-71 515 *7 2 19.0	-71 12.8 8.0				
6 43 -71 6	-71 478 6 43 21.0	-71 5.2 8.6				
6 42 -71 0	-71 475 6 42 40.0	-71 0.0 8.9				
6 24 -70 52	-70 514 6 24 43.5	-70 52.5 7.9				
8 20 -71 6	{-71 678 <sup>h</sup> [-71 677]]	8 20 21.0 <sup>h</sup> [[8 20 10.0]]	-71 6.2 6.7 <sup>h</sup> [-71 6.9 5.8]]			
8 19 -71 33	-71 675 8 19 12.0	-71 34.8 8.3				

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Plate B9003

[[10 column table]]

V. | H. | Cl. | Rem. | L. | K. | Int. | Br. | Photom. | Magn. | Diff. |

V.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photom.	Magn.	Diff.
18.1	7.2	K							3.53	4.05
19.0	7.5	H							4.34	F
1	<del>18.3</del>	<del>9.1</del>	<del>Mc</del>	<del>10</del>	<del>1</del>	<del>4.38</del>	<del>4.23</del>			
1	<del>18.3</del>	<del>9.3</del>	<del>F</del>	<del>5310</del>	<del>K</del>	<del>10</del>	<del>1</del>	<del>3.95</del>		
18.3	10.0	F	5311	K	10	1	4.13			
18.8	16.3	<del>18.3</del>	<del>9.1</del>	<del>Mc</del>	<del>10</del>	<del>1</del>	<del>4.38</del>	<del>4.23</del>		
18.7	16.7	A								
18.5	18.4	F2G								
18.5	20.7	H								
18.4	20.9	K								
18.4	22.2	H								
18.4	22.8	A								
19.2	11.5	G5KPic								
19.3	11.8	A								
19.3	12.8	A								
19.6	15.4	F	5312	K	10	1	4.11			
19.5	17.7	F	5313	K	10	2	3.77			
19.6	21.7	A								
19.4	22.8	A								
20.0	24.2	A								
20.5	6.1	A								
21.0	7.2	A								
^	[Is this not 20.8?]									
20.5	9.6	H								
20.5	9.6	H								
20.2	12.8	H								
20.3	13.7	H								

Sept. 21, 1903.

Plate B9003

V.	H.	Cl.	Rem.	L.	K.	Int.	Br.	Photom.	Magn.	Diff.
18.1	7.2	K							3.53	4.05
19.0	7.5	H							4.34	F
18.3	9.1	Mc							4.38	4.23
18.3	9.3	F	5310	K	10	1	3.95			
18.3	10.0	F	5311	K	10	1	4.13			
18.8	16.3	<del>18.3</del>	<del>9.1</del>	<del>Mc</del>	<del>10</del>	<del>1</del>	<del>4.38</del>	<del>4.23</del>		
18.7	16.7	A								
18.5	18.4	F2G								
18.5	20.7	H								
18.4	20.9	K								
18.4	22.2	H								
18.4	22.8	A								
19.2	11.5	G5KPic								
19.3	11.8	A								
19.3	12.8	A								
19.6	15.4	F	5312	K	10	1	4.11			
19.5	17.7	F	5313	K	10	2	3.77			
19.6	21.7	A								
19.4	22.8	A								
20.0	24.2	A								
20.5	6.1	A								
21.0	7.2	A								
^	[Is this not 20.8?]									
20.5	9.6	H								
20.5	9.6	H								
20.2	12.8	H								
20.3	13.7	H								

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[[table]]

1875 Approx. | CPD Design. | 1875 R.A. | 1875 Dec. | Magn. | R.A. 1900 | Dec. 1900 |

8<sup>h</sup>[[h]] 9<sup>m</sup>[[m]] -71° 22' -71° 657' 8<sup>s</sup>[[h]] 9<sup>s</sup>[[m]] 36.0<sup>s</sup>[[s]] -71° 21.0' 8.5]

8 8	- 71 45	-71 655	8 8 45.0	-71 46.3	8.8		
8 7	- 71 28	-71 650	8 7 3.0	-71 27.0	9.0		
8 2	- 71 48	-71 643	8 2 10.5	-71 49.5	8.3		
7 58	- 71 38	-71 640	7 58 17.5	-71 39.2	9.0		
7 57	- 71 38	-71 633	7 57 10.0	-71 39.1	8.3		
7 52	- 71 42	-71 624	7 52 27.0	-71 41.1	8.6		
7 12	- 72 7	-72 576	7 12 22.0	-72 7.8	8.0		
7 9	- 72 0	-72 569	7 9 19.0	-72 0.6	9.1		
6 58	- 71 50	-71 506	6 58 56.0	-71 51.7	7.8		
6 43	- 71 45	-71 480	6 44 4.0	-71 45.6	8.6		
6 43	- 71 38	-71 476	6 42 51.0	-71 38.8	7.7	6 42.4-71 41	50
6 35	- 71 33	-71 460	6 35 5.0	-71 32.9	8.6		
6 31	- 71 24	-71 449	6 31 14.0	-71 24.9	8.2		
7 43	- 72 18	-72 627	7 43 19.5	-72 18.2	6.0	7 43.0-72 22	50
7 41	- 72 17	-72 622	7 41 25.0	-72 17.3	8.8		
7 34	- 72 18	-72 611	7 34 42.5	-72 18.6	8.4		
7 17	- 72 30	-72 582	7 17 42.3	-72 30.7	8.0		
7 3	- 72 22	-72 551	7 3 3.0	-72 22.4	7.7		
6 3.6	- 72 10	-72 508	6 36 15.5	-72 9.8	8.3		
6 3.0	- 71 55	-71 446	6 29 44.0	-71 56.3	8.2		
6 2.0	- 72 5	-72 469	6 20 25.0	-72 4.4	8.0		
8 1.9	- 72 2.4	-72 683	8 1.9 40.5	-72 23.7	8.8		
8 1.3	- 72 48	-72 669	8 13 36.0	-72 48.1	8.1		
8 0	- 72 54	-72 654	8 0 49.0	-72 53.7	6.4	8 0.5-72 58	Correct if 20.8 intended
7 56	- 72 45	-72 650	7 56 53.0	-72 46.1	9.0		
7 40	- 72 52	-72 619	7 40 18.0	-72 52.8	9.1		
7 35	- 72 45	-72 614	7 35 46.4	-72 46.4	9.4		
7 29	- 72 49	-72 600	7 29 15.0	-72 50.0	8.8		

[[/table]]

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CPD 115 115

R.A. Dec. Mag. R.A. Dec. Mag.

8 8 - 71 45 -71 655 8 8 45.0 -71 46.3 8.8

8 7 - 71 28 -71 650 8 7 3.0 -71 27.0 9.0

8 2 - 71 48 -71 643 8 2 10.5 -71 49.5 8.3

7 58 - 71 38 -71 640 7 58 17.5 -71 39.2 9.0

7 57 - 71 38 -71 633 7 57 10.0 -71 39.1 8.3

7 52 - 71 42 -71 624 7 52 27.0 -71 41.1 8.6

7 12 - 72 7 -72 576 7 12 22.0 -72 7.8 8.0

7 9 - 72 0 -72 569 7 9 19.0 -72 0.6 9.1

6 58 - 71 50 -71 506 6 58 56.0 -71 51.7 7.8

6 43 - 71 45 -71 480 6 44 4.0 -71 45.6 8.6

6 43 - 71 38 -71 476 6 42 51.0 -71 38.8 7.7 6 42.4-71 41 50

6 35 - 71 33 -71 460 6 35 5.0 -71 32.9 8.6

6 31 - 71 24 -71 449 6 31 14.0 -71 24.9 8.2

7 43 - 72 18 -72 627 7 43 19.5 -72 18.2 6.0 7 43.0-72 22 50

7 41 - 72 17 -72 622 7 41 25.0 -72 17.3 8.8

7 34 - 72 18 -72 611 7 34 42.5 -72 18.6 8.4

7 17 - 72 30 -72 582 7 17 42.3 -72 30.7 8.0

7 3 - 72 22 -72 551 7 3 3.0 -72 22.4 7.7

6 3.6 - 72 10 -72 508 6 36 15.5 -72 9.8 8.3

6 3.0 - 71 55 -71 446 6 29 44.0 -71 56.3 8.2

6 2.0 - 72 5 -72 469 6 20 25.0 -72 4.4 8.0

8 1.9 - 72 2.4 -72 683 8 1.9 40.5 -72 23.7 8.8

8 1.3 - 72 48 -72 669 8 13 36.0 -72 48.1 8.1

8 0 - 72 54 -72 654 8 0 49.0 -72 53.7 6.4 8 0.5-72 58 Correct if 20.8 intended

7 56 - 72 45 -72 650 7 56 53.0 -72 46.1 9.0

7 40 - 72 52 -72 619 7 40 18.0 -72 52.8 9.1

7 35 - 72 45 -72 614 7 35 46.4 -72 46.4 9.4

7 29 - 72 49 -72 600 7 29 15.0 -72 50.0 8.8

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Plate B9003

	V.	H.	CL.	Rem.	L.	K.	Int. Br.	Photom. Magn.	Diff.
20.4	17.5	G5K		Kappa	10	1		{4.18 4.50	
20.9	20.1	G5K		Kappa	12	3		{2.90 3.26 6.33^[[.]]	
21.7	5.9	A		Lambda	N	4		1.50 5.40^[[.]]	
21.6	9.9	A		Epsilon	N	1		4.02	
21.9	11.2	F	5314	Kappa	10	1		4.30	
21.4	17.4	K		Kappa	10	1		{3.92 4.20	
21.2	19.2	F	5315	Kappa	10	1		3.85	
22.3	7.1	A		Theta	N	3		2.73 6.65	
22.3	11.0	A		Epsilon	N	2		3.60	
22.6	11.4	A		Epsilon	N	1		3.95	
22.5	12.6	A		Lambda	N	3		2.23 7.16^[[.]] 7.26^[[.]]	
22.6	13.1	F2G			10	2		3.20	
22.4	15.6	F	5316	Kappa	10	1		4.00	
22.3	17.3	F	5317	Kappa	10	1		3.90	
22.5	21.2	F	5318	Kappa	10	2		3.81	
23.0	23.8	A		Epsilon	N	3		2.92 6.80	
22.0	24.7	A		Epsilon	N	1		3.45	
23.3	6.0	A		Epsilon	N	1		3.90	
23.2	7.1	A		Epsilon	N	1		4.05	
23.4	13.1	A		Zeta	N	2		3.33	
23.9	18.1	G		Kappa	10	2		3.62	
^[[9.05P.M.]] 23.5 20.4 A  Epsilon N 1 4.04									

9:55 P.M.

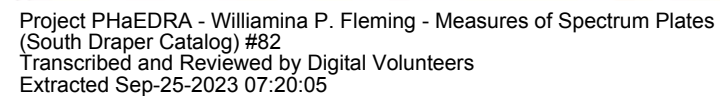
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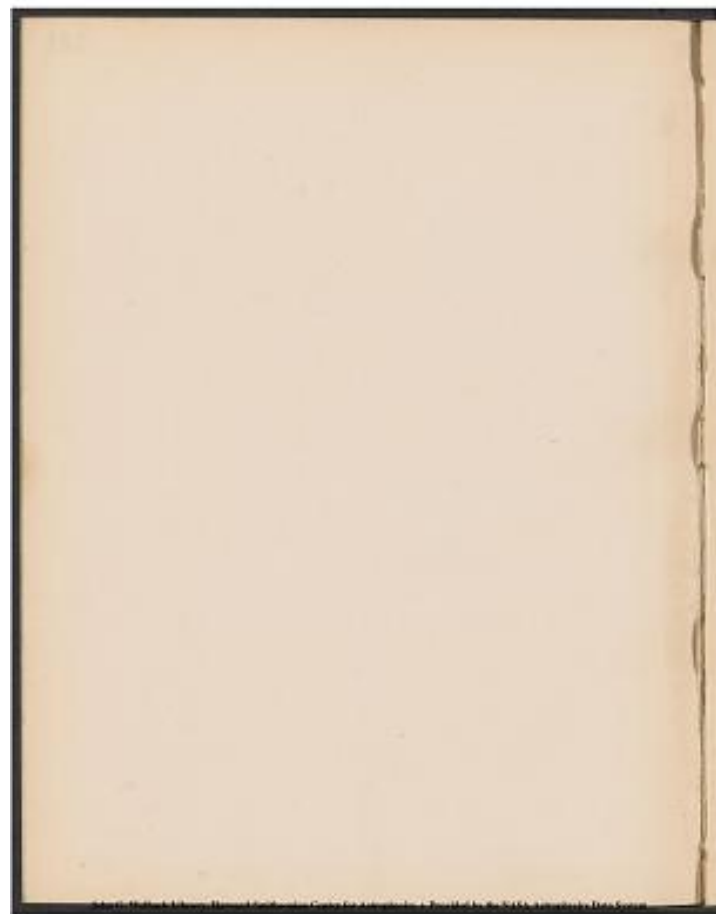
Sept. 21, 1903

Plate B9003

Q.	H.	CL.	Rem.	L.	K.	Int. Br.	Photom. Magn.	Diff.
180.4	175.4	K		K	10	1	3.10	
180.9	20.1	G5K		K	10	3	3.80	6.30
181.3	5.9	A		N	4		1.50	5.40
181.6	9.9	A		E	1		4.02	
181.9	11.2	F	5314	K	10	1	4.30	
181.4	17.4	K		K	10	1	3.92	4.20
181.2	19.2	F	5315	K	10	1	3.85	
182.3	7.1	A		Theta	N	3	2.73	6.65
182.3	11.0	A		E	2		3.60	
182.6	11.4	A		E	1		3.95	
182.5	12.6	A		L	3		2.23	7.16
182.6	13.1	F2G			10	2	3.20	
182.4	15.6	F	5316	K	10	1	4.00	
182.3	17.3	F	5317	K	10	1	3.90	
182.5	21.2	F	5318	K	10	2	3.81	
183.0	23.8	A		E	3		2.92	6.80
182.0	24.7	A		E	1		3.45	
183.3	6.0	A		E	1		3.90	
183.2	7.1	A		E	1		4.05	
183.4	13.1	A		Z	2		3.33	
183.9	18.1	G		K	10	2	3.62	
^[[9.05P.M.]] 23.5 20.4 A  Epsilon N 1 4.04								
9:55 P.M.								

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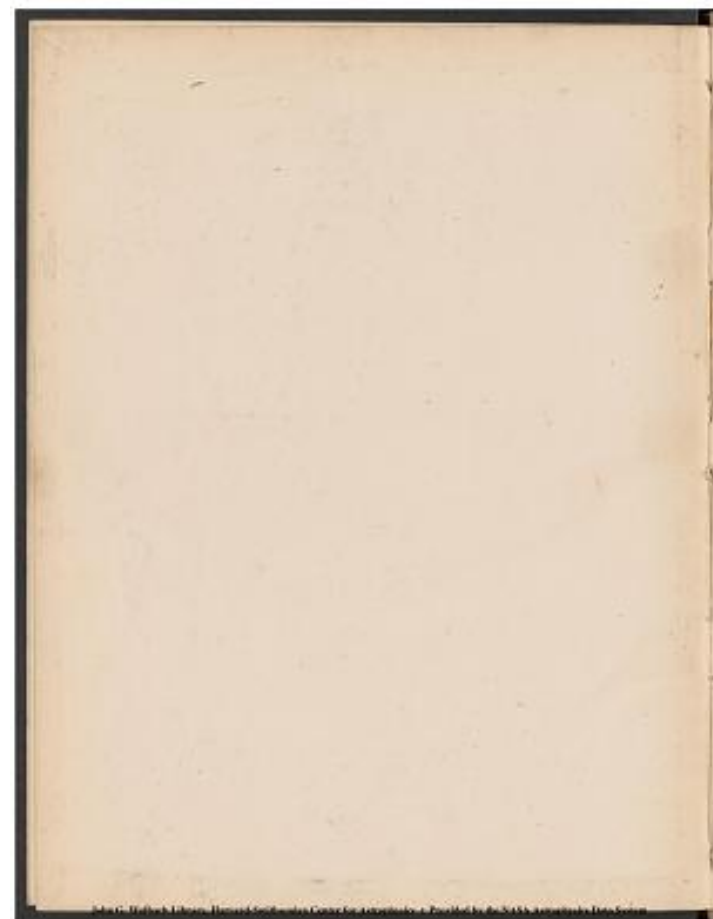
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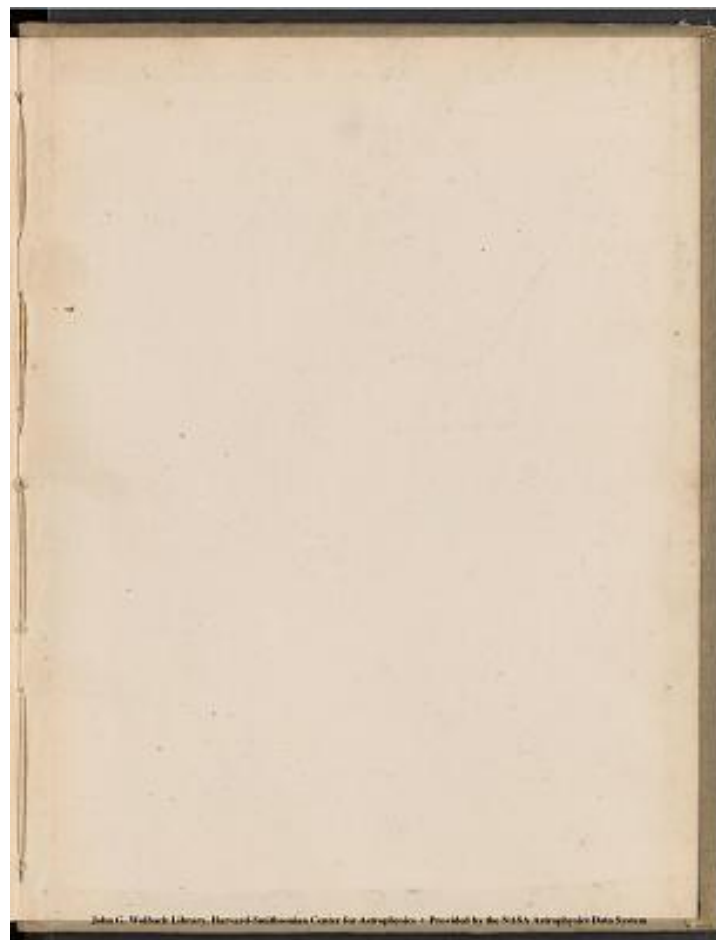


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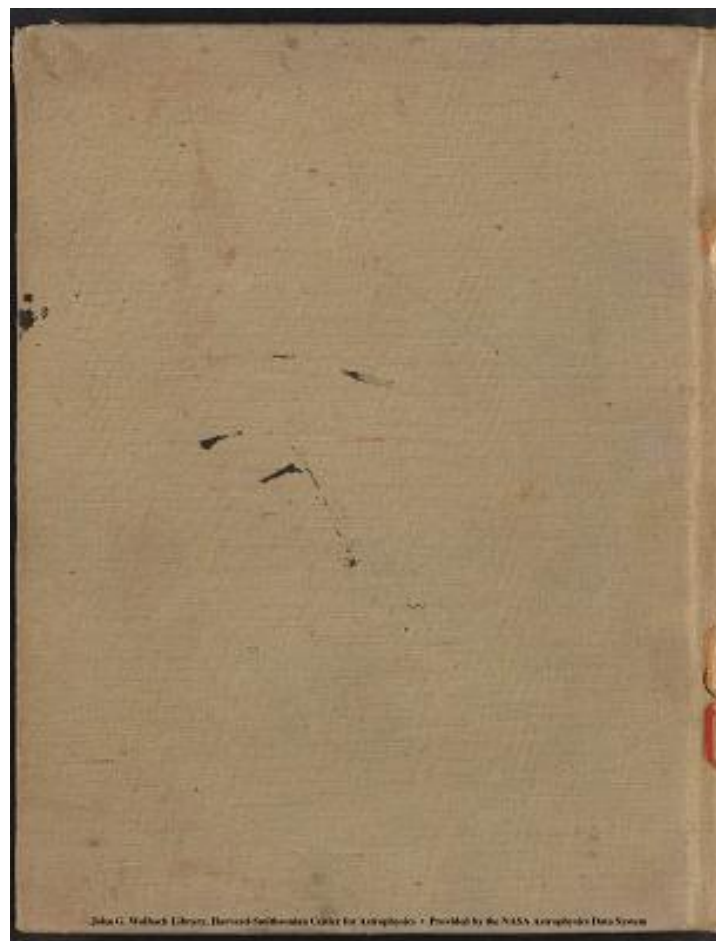
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