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*Harvard-Smithsonian Center for Astrophysics*

## **Project PHaEDRA - Williamina P. Fleming - Catalog of E. Stars #22**

Extracted on Dec-02-2022 11:16:48

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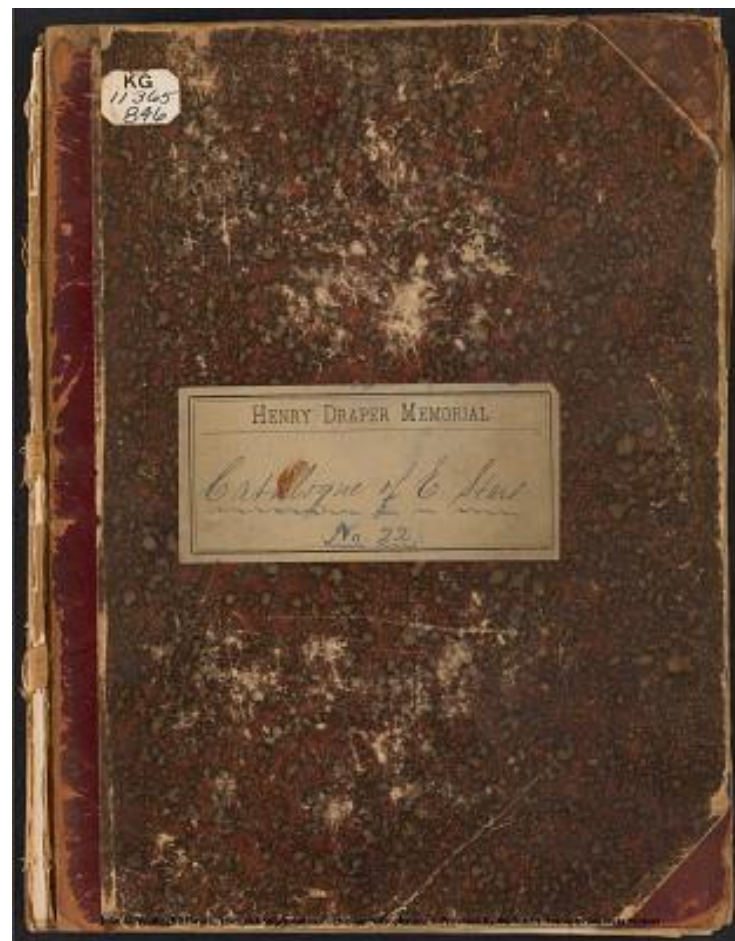
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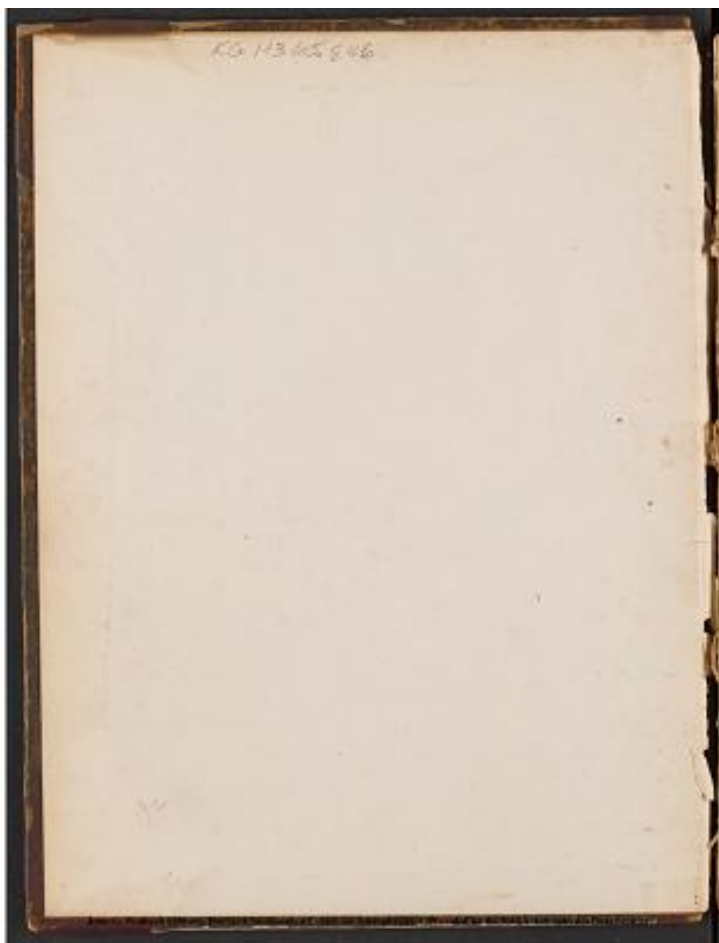
Catalogue of E. Stars  
No. 22



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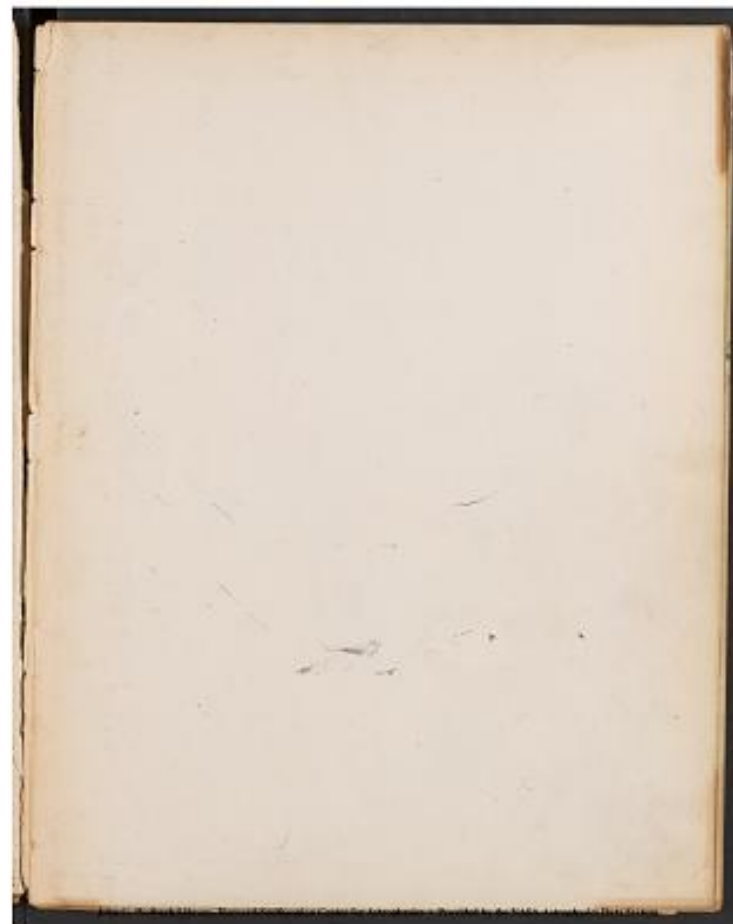
KG 113 65.856

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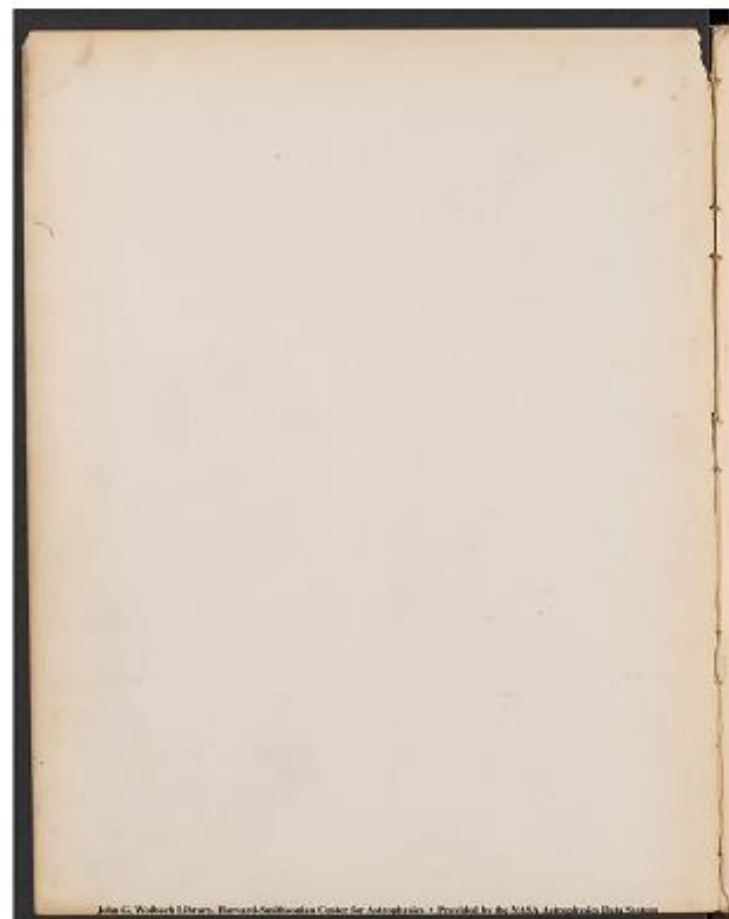
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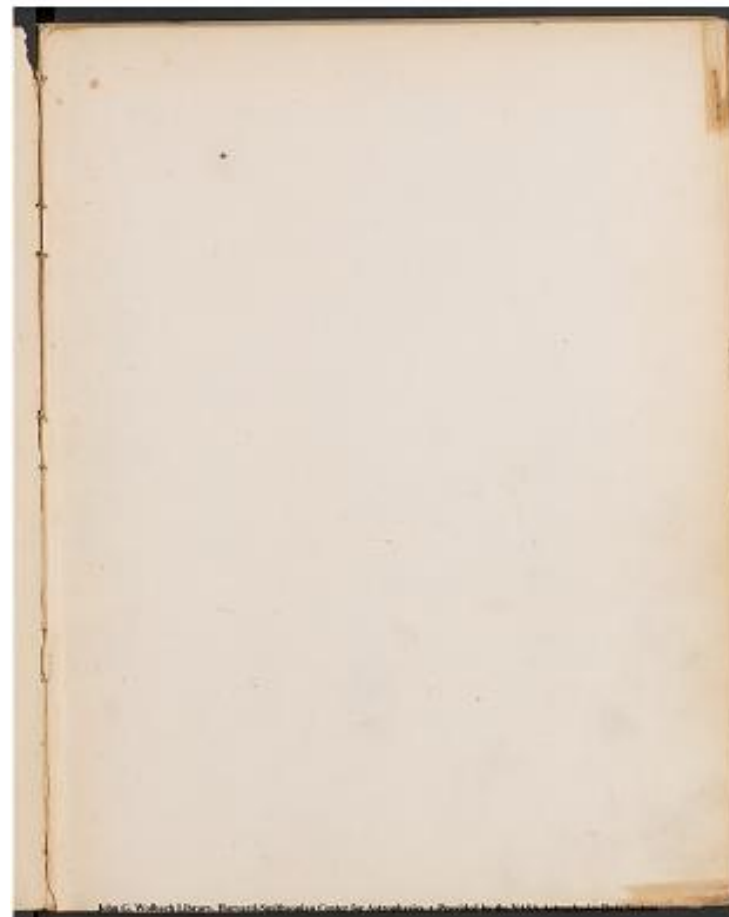
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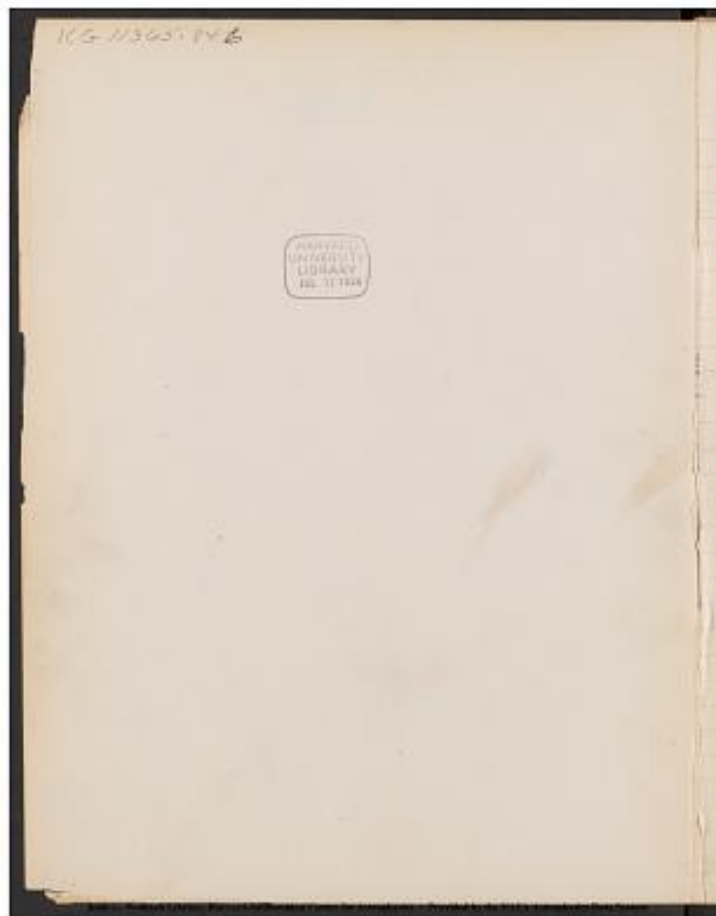


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ICG 11365.846

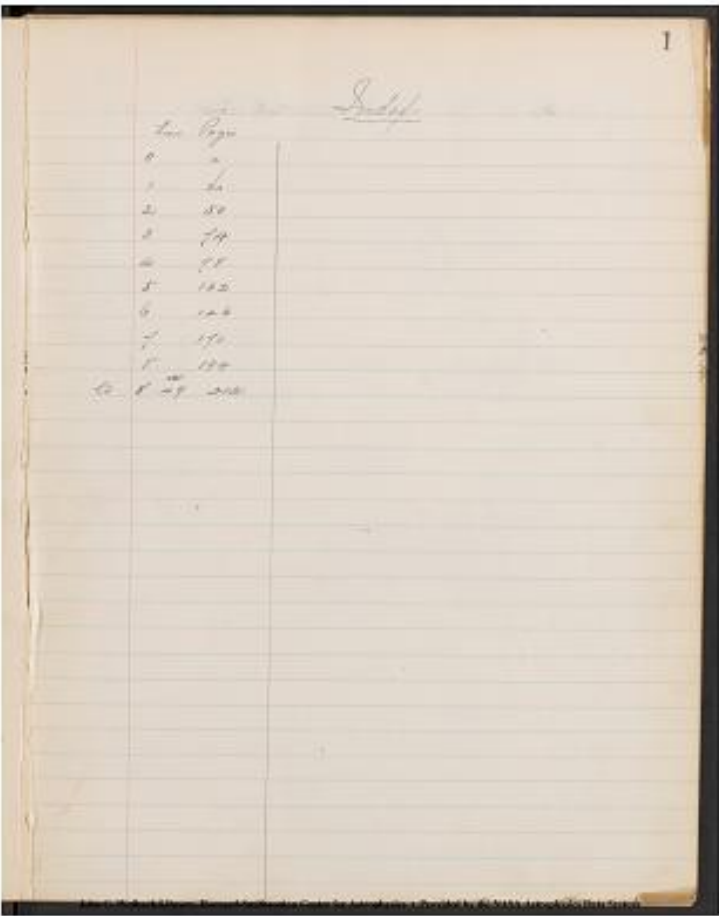
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[[2 columned table]]  
hour	Page
0|2|  
1|26|  
2|50|  
3|74|  
4|98|  
5|122|  
6|146|  
7|170|  
8|194|  
[[note]] [[?]] [[/note]] |8.49 m|212|



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$0^{[[h]]}$ 

[8 columned table]

m0|1855 R.A.|1855 Dec.|1900 R.A.|1900 Dec.|No. Dm|Magn.

DM|Spectrum|No Plate|No. Lines|

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

|03.3+73 41||0|+73 26|0 3.3|+73

41|2|7.0|||928,834,929,843,950|6,3,5,5,7|

|0 3.8 +58 36|.5|+58 21|0 3.8|+58 36|3|2.2||Ia| 186^|[1],

186^|[2]],(829)^[[Ia?]],(843)^[[V]](950) [[underlined]](835)^[[?|Ia]]

875,879 [[strikethrough]]^[[V 12]] [[strikethrough]]^[[V

V]].[[strikethrough]]12[[strikethrough]],3,3,13,3,9,3,9|

|0 5.9 +79 10|<sub>[subscript]]</sub>No 32|<sub>[subscript]]</sub>.5|+78 55|0 3.8|+79

10|1|6.5||

196,[[underlined]]795,787,[[underlined]]928,834,929,829,843,956,^[[835

,875, 879,848,876,914]],8,5,3,8,5,11,7,12,10,8,10,10,6,6,6|

|0 3.9 +64 32|.6|+64 17|0 4.1|+64 32|3|7.0|2|843,|2|

|0 4.2 +83 36|.8|+83 21|0 4.2|+83 36|1|8.5||929,.4|,

|0 5.2 +57 56|.9|+57 41|0 5.2|+57 56|16|8.1||950,.1|

|0 5.2 +56 36|.9|+56 21|0 5.2|+56 36|11|6.7||186,843,950,.|6,7,7|

|0 5.3 +59 63|.0|+58 51|0 5.3|+59 6|11|7.3|2|186^|[1], (186^|[2]]

) ,[[underlined]](929^[[I]])[[underlined]](843^[[Ib]]) (950^[[I]]),

[[underlined]]835,[[underlined]]2,6,7,3,4,2,|

|0 6.6 +65 34|.4|2|+65 19|0 6.6|+65 34|13|7.0||186,|3|

|0 6.3 +57 39|0.1|+57 24|0 6.3|+57 39|28|7.5|?|843,(950^[[II]])1,1,^[[?] ]

|0 6.4 +55 24|.1|+55 9|0 6.4|+55 24|15|7.4||^[[a]]|950,|2|

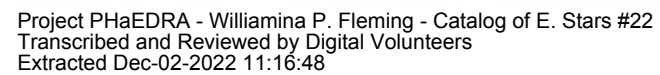
|0 6.9 +53 41|.6|+52 49|0 6.9|+53 41|9|6.5||843,950,|3,|

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[illegible]

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5,5,5,8,3,10,3,8,10&..&..&&&&6.4,59,65,5.8,67,5.3,6.5



4

0<sup>h</sup>[[h]]

[[8 columned table]]

| 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No. Dm | Magn.

DM | Spectrum | No Plate | No. Lines |

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

5.<sup>h</sup>[[m]] ~~10<sup>h</sup>[[m]]~~ | | | | | | |

| 0 7.9 +61 29 | 5 | +61 14 | 0 7.9 +61 29 | 16 | 6.7 | | |

186. 929, 843, 950, (835)<sup>h</sup>[[i?]] | 4.5, 3, 4, 3 || 0 8.4 +75 28 ~~11~~ | ~~0~~ +75 13 | 0 8.4 +75 28

4 | 7.1 | | 843, 950, | 7.6, |

| 0 9.5 +62 17 ~~12~~ | ~~1~~ +62 2 | 0 9.5 +62 17 |

29 | 7.4 | | 835, | 3, |

| 0 11.6 +84 24 | 8 | +84 9 | 0 10.6 +84 24 | 3 | 8.0 | | 928, 929, 1019, 1564 |

4, 7, 7, 3, |

| 0 10.6 +76 24 <sub>No. 33</sub> |~~13~~ | 1 | +76 9 | 0 10.6 +76 24 | 5 | 6.5 | | |196, 284, 186, 928, 834<sup>h</sup>[[1]], 834<sup>h</sup>[[2]], 929<sup>h</sup>[[1]], 929<sup>h</sup>[[2]] (843, 950, 835)<sup>h</sup>[[875, 879, 848, 914]] |6, 6, 6, 6, 5, 5, 10, 3, 8, 9, 10, 7, 2<sup>h</sup>[[7, 9]] |

| 0 10.6 +60 27 | 2 | +60 12 | 0 10.6 +60 27 | 16 | 6.9 | | 929, 12, |

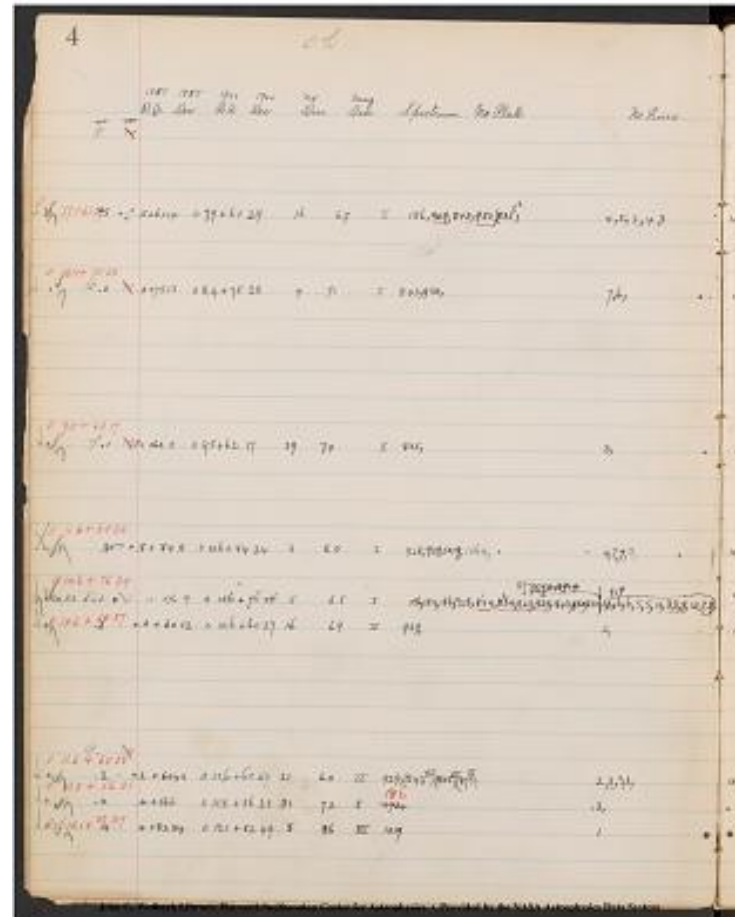
| 0 11.6 +60 58 <sup>h</sup>[[9]] ~~14~~ | ~~2~~ +60 43 | 011.6 +60 59 | 21 | 6.0 | | 929, (843)<sup>h</sup>[[111]], (835)<sup>h</sup>[[111]], (845)<sup>h</sup>[[111]] | 2, 3, 3, 1, |

| 0 11.8 +56 21 | 4 | +56 6 | 0 11.8 +56

21 | 31 | 7.2 | | ~~172~~ | ~~186~~ | 3, |

| 0 12.1 +82 49 | 4 | +82 34 | 0 12.1 +82 49 | 5 | 8.6 | | 1019 | 1 |

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5

0^[[h]]

K.Line | F Line | Brightness | Corr. Brightness | Mean Residuals | No. Remarks

10,10 10,10 | ....8 | 6.7,6.8,6.9,6.9,6.0 | 5.9,6.5,5.8,6.4,5.1 | | |

~~16~~ ~~16~~ | S. | 6.9,7.0 | 6.5, 7.2 | | |

~~17~~ ~~17~~ | | 7.3 | 6.4 | | |

10,5,5 | ..8. | 6.6, 6.5,6.3,6.5 | 7.7, 7.9,7.4,7.5 | |....|

10,7,2 | .....2...22 | .....888 6.5,6.3,6.4,6.2,,6.9,5.9,6.1,6.3 |  
6.4,6.6,6.4,6.4,,6.3,6.4,6.6,6.0,5.8 | ..... | 10, | . | 6.9 | 6.6 | . |

~~19~~

10,10,10. | .888 | 6.5 6.7}6.7}6.8} | 6.2 5.6}5.8}6.0} | ....  
6.9}6.9}7.0} | 5.8}6.0}6.2}

. | . | 7.8, | 6.8, | .

. | 8 | 6.9} | 7.7}  
7.1} | 7.9}

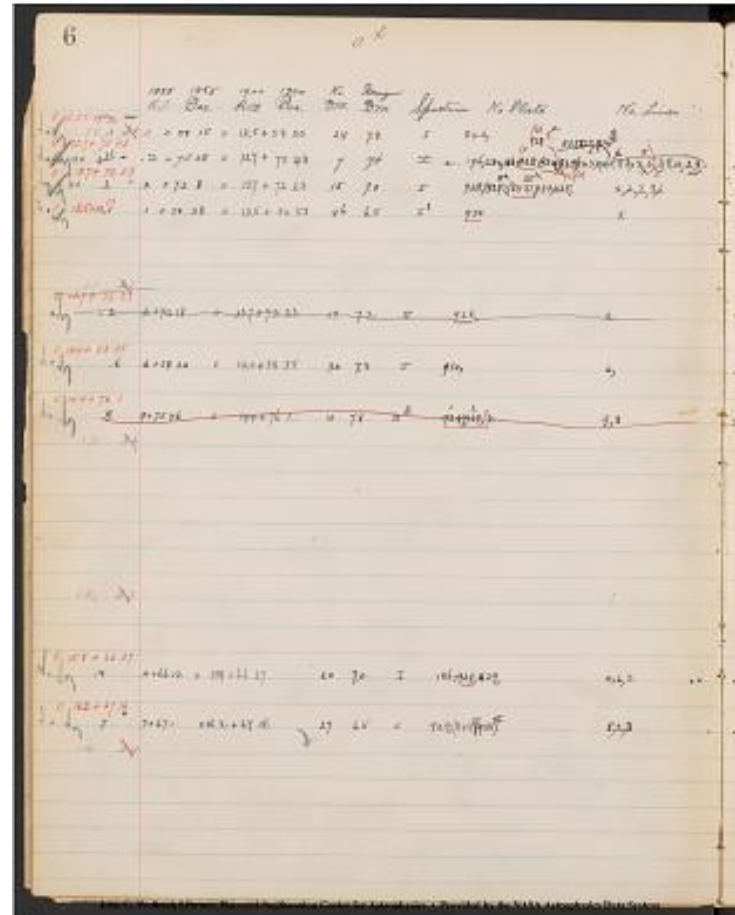
Handwritten astronomical data table from Project PHaEDRA. The table has six columns: K-Line, F Line, Brightness, Corr. Brightness, Mean Residuals, and No. Remarks. The data is handwritten in ink on a lined page. Some entries are crossed out or corrected.

K-Line	F Line	Brightness	Corr. Brightness	Mean Residuals	No. Remarks
10,10	10,10	....8	6.7,6.8,6.9,6.9,6.0	5.9,6.5,5.8,6.4,5.1	
<del>16</del>	<del>16</del>	S.	6.9,7.0	6.5, 7.2	
<del>17</del>	<del>17</del>		7.3	6.4	
10,5,5	..8.	6.6, 6.5,6.3,6.5	7.7, 7.9,7.4,7.5	....	
<u>10,7,2</u>	.....2...22	.....888	6.5,6.3,6.4,6.2,,6.9,5.9,6.1,6.3	6.4,6.6,6.4,6.4,,6.3,6.4,6.6,6.0,5.8	.....   10,   .   6.9   6.6   .
<del>19</del>					
10,10,10.	.888	6.5 6.7}6.7}6.8}	6.2 5.6}5.8}6.0}	....	
		6.9}6.9}7.0}	5.8}6.0}6.2}		
.   .	7.8,   6.8,   .				
.   8	6.9}   7.7}				
	7.1}   7.9}				

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$0^{[[h]]}$ [illegible]

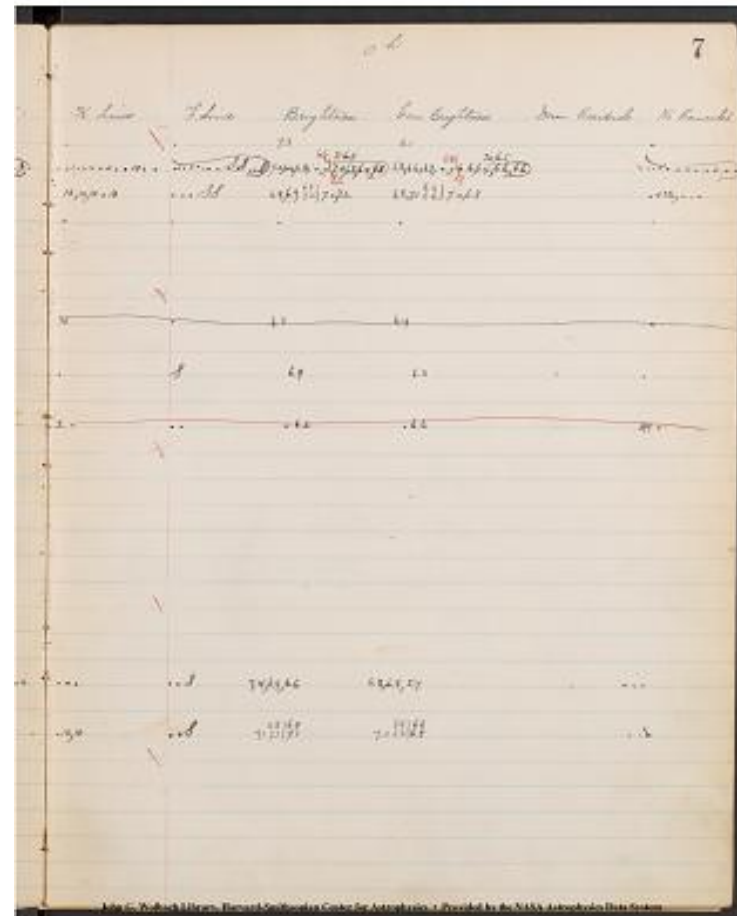
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7  
0<sup>h</sup>[[h]]

K Line	F. Line	Brightness	bow. Brightness	mean. Residuals	No. Remakes
7.3	6.1				
10		SS.S	7.0, 6.4, 6.8	7.0, 6.8, 6.5, 6.8	^[[6.6, 7.1, 6.5]]
6.8, 6.6, 6.7	5.9	5.8	6.6, 6.4, 6.6, 6.6	^[[7.0, 6.5]]	
10, 10, 10, 10		SS	6.9, 6.9, 7.2	^[[6.9]]	7.0, 7.2   6.8, 7.1, 6.6
^[[6.3]]	7.0, 6.8				433, ...
10			6.5   6.4		[[/strikethrough]]
S	6.9	6.3			
2			.62   .66		399. [[/strikethrough]]
S	7.4, 6.9, 6.6		6.8, 6.8, 5.7		
10, 10		S	7.1, 7.1	^[[6.8]]	7.1
			7.1	^[[6.9]]	7.0, 6.2
			^[[5.9]]	6.8	^[[6.6]]



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0 h

[[9 column table]]

| 1855 RA. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No. Line | Mag. Line |  
Spectrum | No. Plate | No. Lines |

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

m. 15 ~~m 30~~ $\wedge[0 17.8+61 45] .4$ |.4 | +61 30 | 0 17.8 | +61 45 | 52 | 8.0 |  $\wedge^2$  | 929 | 2 | $\wedge[0 18.4+60 23] 16.0$  ~~31~~|.0 | +60 8 | 0 18.4 | +60 23 | 45 | 7.5 | II<sup>a</sup> | 929(843) <sup>$\wedge$ [II<sup>2</sup>]](835) <sup>$\wedge$ [III]]</sup> |  
2,1,2, |</sup> $\wedge[0 18.7+59 53] .3$ 

|.3 | +59 38 | 0 18.7 | +59 53 | 51 | 7.7 | I | 929, | 7, |

 $\wedge[0 18.8+51 28] 4$ 

|.4 | +51 13 | 0 18.9 | +51 28 | 62 | 6.0 | I |

~~829~~,  $\sqrt{950}$ , <sup>843</sup>~~950~~ |  
| ~~4~~ | 4,9 | $\wedge[0 19.2+61 17] .8$ |.8 | +61 2 | 0 19.3 | +61 17 | 69 | 6.1 | I | 186 <sup>1</sup>, 186 <sup>2</sup>, 929, 843, 950, 835, 875, 879, | 6,6,11,7,6,8,10,8,6, | $\wedge[0 19.7+ 52 30] .3$ |.3 | +52 15 | 0 19.7 | +52 30 | ~~102~~ <sup>61</sup> |~~4.5~~ <sup>6.0</sup> |186, 829, 843, 950, | 5,8,7,8 | $\wedge[0 20.0+71 15] .5$ 

|.5 | +71 0 | 0 20.0 | +71 15 | 16 | 6.6 | I |

196, 928, 929, (843) <sup>$\wedge$ [II<sup>2</sup>]](950) <sup>$\wedge$ [III<sup>2</sup>]](835) <sup>$\wedge$ I</sup> | 156.4, | 4,6,10,3,2,3,3, |</sup></sup> $\wedge[0 20.7+79 29]$  No. 35 9 18. ~~33~~

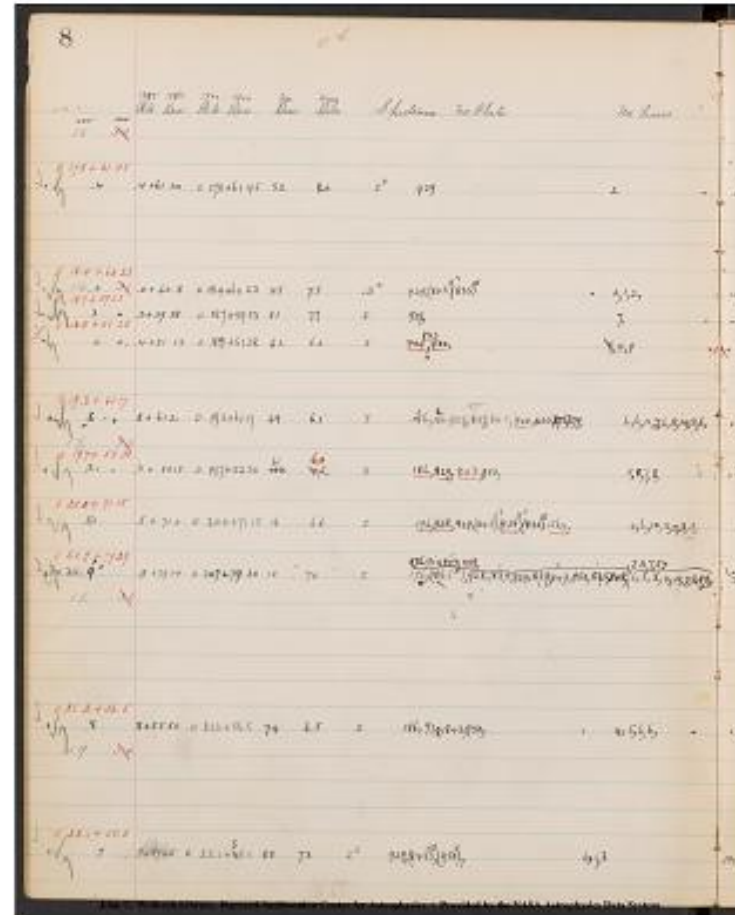
|.9 | +71 14 | 0 20.7 | +79 30 | 10 | 70 | I |

876, 914, 844, 1019, 196, (186<sup>a</sup>b, 928, 83, 4, 929, 829, 84, 3, 950, 83, 5, 848, | $\wedge[7,3,7,5,7] 6,5,8,4,11,7,8,9,8, |$  $\wedge[0 21.2+56 5] .8 .9$  ~~34~~

|.8 | +55 50 | 0 21.2 | +56 5 | 74 | 6.5 | I |

186, 929, 843, 950, | 4,5,6,6, | $\wedge[0 22.1+58 0] .7$ |.7 | +54 45 | 0 22.1 | +~~48~~ <sup>58 0</sup> | 85 | 7.3 $\wedge^2$  | 929, (843)<sup>III</sup>, (950)<sup>I</sup>, | 6,1,3 |

10,



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9

K Line F Line Brightness Low Brightness Mean Residuals  
No Remarks

M  
[[strikethrough]]35[[strikethrough]]

.. . 7.2 6.9 .

10.10 [[strikethrough]]36...[[strikethrough]]  
667.0 6.9 6.3,5.9 6.0 422..  
7.0 6.1

.. . 7.3 6.9 .

.[[two slashes]]... [[strike through]].[[strikethrough]].8  
[[strikethrough]].[[strikethrough]].6.2  
[[strikethrough]].[[strikethrough]].5.4 [[strikethrough]].[[strikethrough]].

8,6, .2.5..... .888.888

6.4  
5.8,6.4,5.5,6.7,6.4,5.8,6.0,6.2  
5.4,5.0

5.0,5.6,5.2,5.6,5.5,5.3,5.4,5.0,5.1 .....

[[strikethrough]]34[[strikethrough]]

.2.. .88 6.5,6.9,6.5,6.2 5.4,5.5,5.1,5.4 .... ....

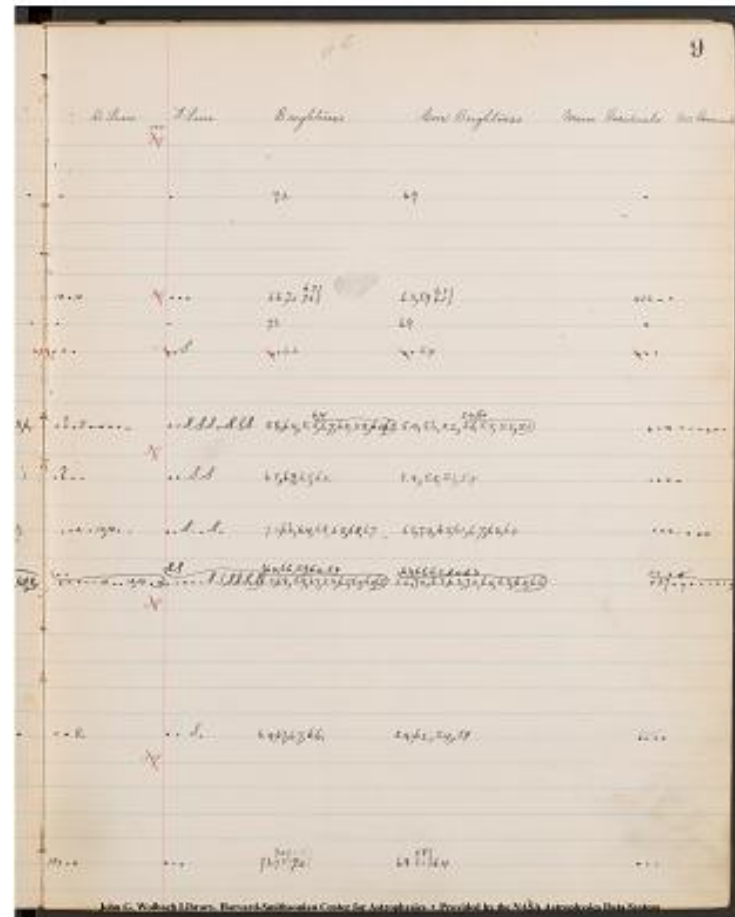
3. .2.10,10...8.8 7.3,6.6,6.4,6.8,6.8,6.8,6.7  
6.8,7.4,6.5,6.1,6.7,6.3,6.4 .....

.. 88  
6.4,6.6,5.9,6.0,5.9  
8.98.....10..10,10.....88888.86.5,6.8,5.9,6.7  
5.3,6.5,6.4,6.0,6.5 6.6,9.0,6.3,7.0,6.4,6.3,6.5,6.6  
.37.....

. .8. .8. 6.4,6.7,6.7,6.6 5.4,6.2,5.4,5.9 ....

10,.. 7.0 5.8  
7.27.3}7.0 6.8 6.1}6.4 ...

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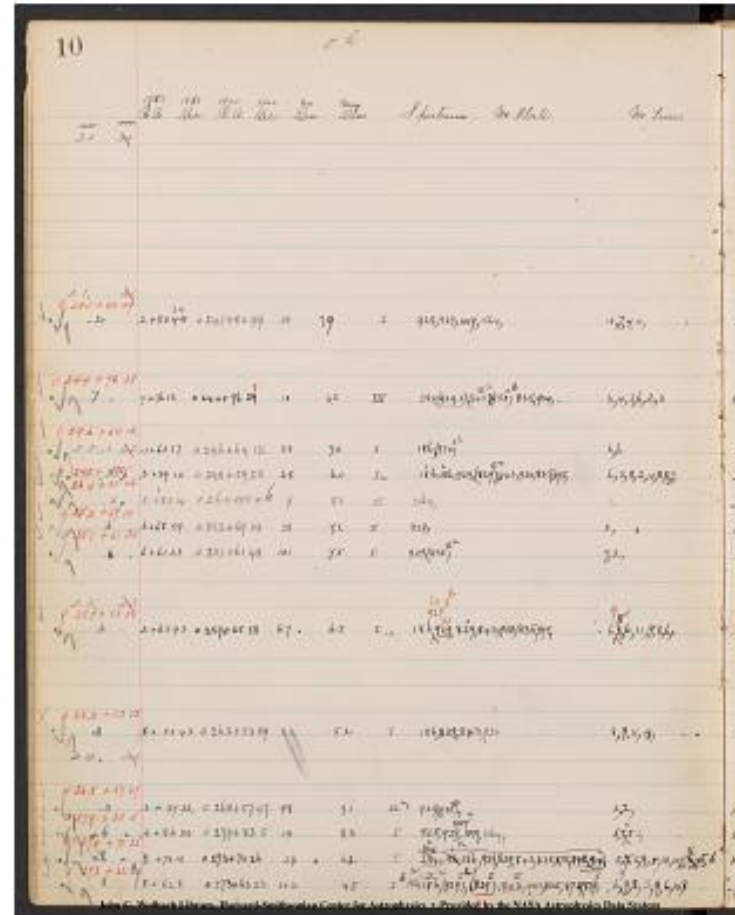


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10

0^[[h]]

[[10 Columned Table]]  
 | 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No. DM. | Mag.  
 DM. | Spectrum | No. Plate | No Lines |  
 -----  
 20^[[m.]] [[~~40^[[m.]]~~]] | | | | | | | | | |  
 21. [[~~41~~]] | | | | | | | | | |  
 | ^[[0 24.1+80 49]] .2. | 2+80 [[~~43~~]] 34 | 0  
 24.1+80 49 | 10 | 7.9 | 928,924,1019,1564, | 4,7,4,4, . |  
 | ^[[0 244+76 28]] .7. | 7+76 13 | 0 24.4+76  
 28 [[~~9~~]] | 10 | 65 | 111 |  
 284. ([[929]]), (843^[[111^[[b]]]])(950^[[11^[[b]]]]), 835,  
 914, ... | 3,4,3,6,2,3 |  
 | ^[[0 24.6+64 12]] 22.1 [[~~42~~]] .1 | +63 57 | 0  
 24.6+64 12 | 53 | 7.0 | 186, (950^[[11^[[2]]]]), 6.6 |  
 | ^[[.0. 24.8+ 5925]] .3. | 3+59 10 | 0 24.8+59  
 25 | 68 | 6.0 | 1.a. | 186^[[1]], 186^[[2]], 929, (829^[[11^[[a]]]]), 843, 950, 835, 87  
 5, | 6,5,8,2,4,8,8,7, . |  
 | ^[[0 26.1+85 46]] .5. | 5+85 31 | 0 26.2+85 46 | 9 | 8.3 | 111 | 1564, | 1, . . |  
 | ^[[0 25.2+69 14]] .6. | 6+68 59 | 0 25.2+69 14 | 29 | 7.2 | 11 | 929, | 2, : |  
 | ^[[0 25.1+61 48]] .6. | 6+61 33 | 0 25.1+61  
 48 | 10 | 1 | 7.5 | 929, (835^[[11^[[a]]]]), 7, 2, |  
 23. [[~~43~~]] | | | | | | | | | |  
 | ^[[0 25.7+65 58]] .2. | 2+65 43 | 0 25.7+65  
 58 | 6.7. | 6.5 | 1. | 186, 929^[[11^[[b]]]], ([[929]]), 829, 843, 950, 835, 875, | 6, . 9, [[~~5~~]] 8,  
 6, 11, 9, 8, 6, . |  
 | X. ^[[0 26.2+53 58]] .8. | 8+53 43 | 0 26.2+53  
 59 | 82 | 5.2 | 11 | 186, 829, 843, 950 | 8, 9, 11, 14, . . |  
 24. [[~~44~~]] | | | | | | | | | |  
 | ^[[0 26.8+57 47]] .3. | 3+57 32 | 0 26.8+57  
 47 | 98 | 7.1 | 11 | 929, (950^[[11]]), 2, 2, |  
 | ^[[0 27.9+83 5]] .6  
 .6+8250 | 0 | 27.9+83.5 | 14 | 8.3 | 11 | 928, 929^[[844]], 1019, 1564, |  
 5, 7, ^[[4]] 53, |  
 | ^[[0 27.4+70 25]] 8.  
 . | 8+7010 | 0 | 27.3+7026 | 24 | 6.2 | 11 | 284^[[914^[[2]]]], [[~~186~~]] 186[[/stri  
 kethrough]], 186, 929, 829, 843, 835, 875, 848, 914, |  
 | 5, [[~~7~~]] 7[[/stri  
 kethrough]], 5, 9, 5, 10, 11, 7, [[~~6~~]] 6[[/stri  
 kethrough]]^[[5]] 5[[/stri  
 kethrough]], 5, 6 |  
 | ^[[27.3+62 23]] 8 | 8+628 | 0 | 27.3+62 23 | 102 | 45 | 11 | 186^[[11]],  
 186^[[11^[[2]]],  
 (929^[[11^[[2]]]]), ([[829]]), (843^[[11]]), 950, 835,  
 875[[11]] 879^[[11]] | 6, 9, 8, 3, 9, 6, 10, 8



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[[6 columned table]]

K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remark |

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

m ~~45~~ | | | | |

~~46~~ | | | | |

2.10, |...| 6.9, 6.9, 6.7, 6.7 | 7.5, 7.8, 7.3, 7.2 | ... |

10, 10, 10, 10<sup>^</sup>[[2]] | 10, 10 | S.S S.S | 6.7<sup>^</sup>[[6.4]] | 6.6 6.7<sup>^</sup>[[6.6]] | 6.3

7.0<sup>^</sup>[[6.8]] | 6.5<sup>^</sup>[[6.3]] | 7.0<sup>^</sup>[[6.7]] | 7.1 6.4<sup>^</sup>[[6.3]] | 6.6 6.9<sup>^</sup>[[6.7]] |

6.6<sup>^</sup>[[6.4]] | | 459, 482, ... |

10 ~~47~~ | S<sup>^</sup>[[?]] | 7.1, 6.9 | 6.4, 6.5 | | |

?.. 10... 2.2 | S<sup>^</sup>[[?]] | S.S? | 6.5, 6.7, 6.1, 6.9, <sup>^</sup>[[6.7]] | 6.4, 6.5, 6.7 | 5.6, 5.8, 5.7, 5.

7.5, 5.8, 5.5, 5.8 | | ... 449... |

| 7.2<sup>^</sup>[[7.0]] | 8.5<sup>^</sup>[[8.3]] | | |

10, | 7.4, | 7.4, | | |

2<sup>^</sup>[[?]] | 6.7, 7.0 | 6.4, 6.1 | | 496 |

~~48~~ | | | | |

<sup>^</sup>[[2]] | 5... | <sup>^</sup>[[?]] | SSSSS | 6.1, <sup>^</sup>[[6.2]] | ~~6.6~~ | ~~6.6~~ |

8.6, 3.6, 0.6, 4.6, 6.6 | 5.5, <sup>^</sup>[[5.5]] | ~~6.5~~ | ~~5.9~~, 5.4,

5.7, 5.7, 6.0 | | ... |

|...| SSS | 5.6, 6.2, 6.3, 5. | ~~6~~ | ~~5~~ | 4.6, 4.9, 5.0, 5.7 |

| ... |

~~49~~ | | | | |

10, 10 | 7.1 7.1<sup>^</sup>[[6.9 7.1]] | 6.7 6.5<sup>^</sup>[[6.3]] | | 408 |

5, 2, 10, |...<sup>^</sup>[[?]] | S. | 6.5, 6.3, <sup>^</sup>[[6.9]] | 6.4, 6.1 | 7.4, 7.5, <sup>^</sup>[[7.4]] | 7.3, 6.9 | | ... |

10, ~~50~~ | ~~2.2, 2.~~ <sup>^</sup>[[?]] | 5... | ~~5~~ | ~~5~~ |

~~51~~ | SSSSS | S<sup>^</sup>[[6.4

6.2]] 6.3, ~~5.1~~ | ~~6.8~~, 6.2, 6.8, 6.5, 6.5, 6.6, 6.5, <sup>^</sup>[[6.4

5.9]] | 6.2, ~~4.3~~ | 6.4, 6.3, 6.1, 5.8, 6.0, 6.2, 5.8 |

| ... |

| V. 10 ? ?.. | S: SSSSS | 5.8<sup>^</sup>[[5.1]] | 4.7, 5.6, 5.6, 5.1, 5.6, 5.4, 5.5 | 5.0<sup>^</sup>[[4.3]]

4.4, 4.5, 4.5, 4.6, 4.7, 4.6, 4.1 | | 21<sup>^</sup>[[508..]] | 430, 473, 497 |

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 Provided by the NASA Astrophysics Data Systems

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K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remark |

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

m ~~45~~ | | | | |

~~46~~ | | | | |

2.10, |...| 6.9, 6.9, 6.7, 6.7 | 7.5, 7.8, 7.3, 7.2 | ... |

10, 10, 10, 10<sup>^</sup>[[2]] | 10, 10 | S.S S.S | 6.7<sup>^</sup>[[6.4]] | 6.6 6.7<sup>^</sup>[[6.6]] | 6.3

7.0<sup>^</sup>[[6.8]] | 6.5<sup>^</sup>[[6.3]] | 7.0<sup>^</sup>[[6.7]] | 7.1 6.4<sup>^</sup>[[6.3]] | 6.6 6.9<sup>^</sup>[[6.7]] |

6.6<sup>^</sup>[[6.4]] | | 459, 482, ... |

10 ~~47~~ | S<sup>^</sup>[[?]] | 7.1, 6.9 | 6.4, 6.5 | | |

?.. 10... 2.2 | S<sup>^</sup>[[?]] | S.S? | 6.5, 6.7, 6.1, 6.9, <sup>^</sup>[[6.7]] | 6.4, 6.5, 6.7 | 5.6, 5.8, 5.7, 5.

7.5, 5.8, 5.5, 5.8 | | ... 449... |

| 7.2<sup>^</sup>[[7.0]] | 8.5<sup>^</sup>[[8.3]] | | |

10, | 7.4, | 7.4, | | |

2<sup>^</sup>[[?]] | 6.7, 7.0 | 6.4, 6.1 | | 496 |

~~48~~ | | | | |

<sup>^</sup>[[2]] | 5... | <sup>^</sup>[[?]] | SSSSS | 6.1, <sup>^</sup>[[6.2]] | ~~6.6~~ | ~~6.6~~ |

8.6, 3.6, 0.6, 4.6, 6.6 | 5.5, <sup>^</sup>[[5.5]] | ~~6.5~~ | ~~5.9~~, 5.4,

5.7, 5.7, 6.0 | | ... |

|...| SSS | 5.6, 6.2, 6.3, 5. | ~~6~~ | ~~5~~ | 4.6, 4.9, 5.0, 5.7 |

| ... |

~~49~~ | | | | |

10, 10 | 7.1 7.1<sup>^</sup>[[6.9 7.1]] | 6.7 6.5<sup>^</sup>[[6.3]] | | 408 |

5, 2, 10, |...<sup>^</sup>[[?]] | S. | 6.5, 6.3, <sup>^</sup>[[6.9]] | 6.4, 6.1 | 7.4, 7.5, <sup>^</sup>[[7.4]] | 7.3, 6.9 | | ... |

10, ~~50~~ | ~~2.2, 2.~~ <sup>^</sup>[[?]] | 5... | ~~5~~ | ~~5~~ |

~~51~~ | SSSSS | S<sup>^</sup>[[6.4

6.2]] 6.3, ~~5.1~~ | ~~6.8~~, 6.2, 6.8, 6.5, 6.5, 6.6, 6.5, <sup>^</sup>[[6.4

5.9]] | 6.2, ~~4.3~~ | 6.4, 6.3, 6.1, 5.8, 6.0, 6.2, 5.8 |

| ... |

| V. 10 ? ?.. | S: SSSSS | 5.8<sup>^</sup>[[5.1]] | 4.7, 5.6, 5.6, 5.1, 5.6, 5.4, 5.5 | 5.0<sup>^</sup>[[4.3]]

4.4, 4.5, 4.5, 4.6, 4.7, 4.6, 4.1 | | 21<sup>^</sup>[[508..]] | 430, 473, 497 |

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0<sup>h</sup>[[h]]

[[11 columned table]]

[m. ~~[[~~strickethrough~~]]m~~[[~~strickethrough~~]]~~R.A 1855|Dec. 1855|R.A  
1900|Dec. 1900|No. DM.|Mag. DM.|Spectrum|No. Plate|No. Lines|  
|---|---|---|---|---|---|---|~~

|X .4<sup>h</sup>[[0 29.1+85 25<sup>h</sup>[[25 ~~[[~~strickethrough~~]]50~~[[~~strickethrough~~]]~~]]]]]]].4+85  
10|0 29.2+85 25|11  
|8.8||1019,1564,|5,2,|~~

|.4<sup>h</sup>[[0 27.9+60 0]]|.4+59 45|0 27.9+60 0|76|7.8||929,(843<sup>h</sup>[[IIIa]])|8,3|

|26.0 ~~[[~~strickethrough~~]]51~~[[~~strickethrough~~]]~~<sup>h</sup>[[0 28.6 + 66 12]]|.0 + 65 57|0  
28.6 + 66 12  
70|70|6.5|7|186,929<sup>h</sup>[[1]],929<sup>h</sup>[[2]],829,843,950,835,875|4,7,8,3,5,9,8,6|~~

|.2<sup>h</sup>[[0 28.8 + 66 58]]|2+66 43|0 28.8+66  
58|39|7.5||<sup>h</sup>[[a<sup>h</sup>[[2]]]]|843,(950<sup>h</sup>[[I]])|1,3|

|.3<sup>h</sup>[[0 29.8+84 8]]|3+83 53|0 29.8+84 8  
9|9|7.8||6[[a]]|928,929,(835<sup>h</sup>[[I?]]),844<sup>h</sup>[[I]],1019,1521<sup>h</sup>[[III]],1564|2,2,3,  
3,3,1,2|

|.9<sup>h</sup>[[0 29.4+62 26]]|.9+62 11|0 ~~[[~~strickethrough~~]]27.3+62  
23~~[[~~strickethrough~~]]29.4+62 26|109|7.4||<sup>h</sup>[[a]]|929,|6|~~~~

|27 ~~[[~~strickethrough~~]]52~~[[~~strickethrough~~]]~~]~~

|28.1<sup>h</sup>[[0~~[[~~strickethrough~~]]29.6~~[[~~strickethrough~~]]30.6+53 37]]|1+53 22|0  
30.6+53  
37|102|5.8||186,829,(843<sup>h</sup>[[Ia]]),950[[underlined]]|7,7,7,7|~~~~

|.1<sup>h</sup>[[~~[[~~strickethrough~~]]0~~[[~~strickethrough~~]]30.6+56 45]]|.1+56 30|0 30.6+56  
45|91|7.4||186|4|~~~~

|X.3<sup>h</sup>[[~~[[~~strickethrough~~]]0~~[[~~strickethrough~~]]7 30.8+59 46]]|.3+59 31|0  
30.8+59  
47|84|6.0||186<sup>h</sup>[[1]],186<sup>h</sup>[[2]],929,843,835,(875<sup>h</sup>[[Ia]])|.5,4,11,6,10,2|~~~~

|.9<sup>h</sup>[[0 31.4+53 21]]|.9+53 6|0 31.4+53  
21|10.5|4.1||186,(829<sup>h</sup>[[Ib]]),843,950[[underlined]]|7,10,7,9  
|

|.8<sup>h</sup>[[~~[[~~strickethrough~~]]0~~[[~~strickethrough~~]]31.5+72 21]]|.8+72 6|0 31.5+72  
21|35|6.7||284,(929<sup>h</sup>[[Ib]]),(843<sup>h</sup>[[Ia?]]),950,(835<sup>h</sup>[[I]],(875<sup>h</sup>[[I]]),914,|5,7,  
2,3,3,3,6|~~~~

|Na 39 29 .0 ~~[[~~strickethrough~~]]54~~[[~~strickethrough~~]]~~<sup>h</sup>[[0 32.3+81 57]]|.0+81 4  
2|0  
32.2+81|56|13|6.5||<sup>h</sup>[[a]]|196,(928<sup>h</sup>[[Ia]]),(929<sup>h</sup>[[Ia]]),(843<sup>h</sup>[[underlined]]|843<sup>h</sup>[[underlined]]),(835<sup>h</sup>[[I]]),(875<sup>h</sup>[[Ia]]),(879<sup>h</sup>[[Ia]]),(844<sup>h</sup>[[Ib?]]),1019~~

^[Ila]]4,3,3,3,3,[[strikethrough]]3[[/strikethrough]],2,3,3|

|.2^[[0 31.7+57 28]]|.2+57 13|0 31.7+57 28|113|7.0||929|3|

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0<sup>h</sup>[[h]]

[[7 columned table]]

K Line. | F Line. | Brightness. | Corr. Brightness. | Mean. | Residuals. |  
No. Remarks. |

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
55	55	6.7	6.7	8.0	7.9	

. 10 | . S | 7.3, ^[[6.4]] 6.6 | 6.9, ^[[5.2]] 5.4 | | | . 468 |

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
56	56	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
57	57	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
58	58	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
59	59	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
60	60	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
61	61	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
62	62	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
63	63	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
64	64	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
65	65	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
66	66	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
67	67	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
68	68	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
69	69	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
70	70	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
71	71	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
72	72	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
73	73	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
74	74	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
75	75	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
76	76	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
77	77	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
78	78	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
79	79	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
80	80	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
81	81	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
82	82	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
83	83	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
84	84	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
85	85	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
86	86	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
87	87	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
88	88	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
89	89	6.5	6.5	6.4	6.5	

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
90	90	6.5	6.5	6.4	6.5	

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~~1~~<sup>1</sup>~~0~~

[10 columned table]

R.A 1855|Dec. 1855|R.A 1900|Dec. 1900|No. DM.|Mag.  
DM.|Spectrum|No. Plate|No. Lines|

30<sup>^</sup>[m] ~~0<sup>^</sup>[m.]~~ | | | | | | | | | |  
0 32.9 +56 58 .4 . | .4 | +56 43 | 0 32.9 | +56 58 | 101 | 7.6 | | 929, | |  
7 |  
· ^0 33.1 +59 16 .6 . | .6 | +59 1 | 0 33.1 | +59 16 | 92 | 6.5 | | 186, 929,  
[843, [950, 835, | | 5, 7, 4, 2, 6 |  
· ^0 33.4 +76 20 .5 | .5 | +76 5 | 0 33.4 | +76 20 | 14 | 7.0 | III | 843, 950,  
(875, ^<sup>^</sup>[[11]]) [1564, [1564, | 2, 1, 6, 1, |  
31 ~~1~~ | | | | | | | | | |  
· ^0 34.3 +70 10 .6 ... | .6 | +69 55 | 0 34.4 | +70 10 | 32 | 7.0 | | 186,  
929, 843, 835 | 4, 5, 4, 7, |  
· ^0 34.8 +56 0 .3 | .3 | +55 45 | 0 34.8 | +56 0 | 139 | var. | III bc | 186,  
[929, [829, 950, | 2, 2, 2, 3 |  
· ^0 35.6 +65 19 33 .0 ~~3~~ | .0 | +65 4 |  
0 35.6 | +65 19 | 81 | 7.0 | III | 929, 835, | 2, 2 |  
· 0 36.1 +65 35 .5 | .5 | +65 20 | 0 36.1 | +65 36 | 83 | 6.0 | III | 929,  
843, 950, 835, III2 [914] | 2, 3, 3, 3, |  
· 0 36.4 +70 50 | .7 | 7 + 70 35 | 0 36.4 + 70 50 39 | 7.0 | | |  
929, [914, ^<sup>^</sup>[[1]]914<sup>^</sup>[[2]] | 8, 5, 4, |  
· 0 36.3 + 59 23 | .7 | .7 + 59 8 | 0 36.3 + 59 23 | 100 | 7.2 | | 929, | 5,  
· 0 36.4 + 73 31 | .6 | .6 + 73 16 | 0 36.4 + 73 31 | 30 | 8.0 | III |  
[835] | 3, |  
| 3 4. ~~4~~ | | | | | | | | | |  
· 0 36.8 + 58 13 | .2 | .2 + 57 58 | 0 36.8 + 58 13 | 132 | 6.5 | | |  
186<sup>^</sup>[[1]], 186<sup>^</sup>[[2]], 929, 829, [950] | 835, 845, . |  
3, 5, 9, 6, 9, 6, 2, |  
· 0 37.0 + 62 13 | .4 | .4 + 61 58 | 0 37.0 + 62 13 | 152 | 7.8 | II<sup>^</sup>[[a]] |  
929, | 2, |

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[[crossout]] 1 [[\crossout]] h 0

| K Line. | F Line. | Brightness. | Corr Brightness. | Mean Residuals | No  
Rem. |

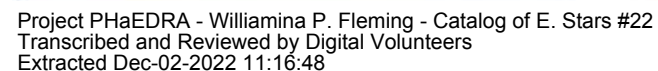
| . | . | 6.9 | 6.5 | | . |  
| ..... | S.S | 6.8, 6.5, 7.0, 6.8, 6.7 | 5.9, 6.1, 5.8, 6.2, 5.7 | | ..... |  
| 10, ... | S^[[?]] SS. | 7.0^[[6.8]]} 7.2^[[6.9]]} 6.8 7.2^[[6.9]] | 6.6^[[6.4]]}  
7.4^[[7.1]]} 6.7 7.2^[[6.9]] | | ..... |  
| ..... | SS | 7.2, 6.5, 6.9, 6.9 | 6.8, 6.6, 6.2, 6.4 | | ..... |  
| 15, 20, 12, 30 | S^[[2]] S | 5.3^[[4.8]]} . 5.9^[[5.5]]} 5.4^[[5.0]]} |  
4.3^[[3.8]]} . 4.6^[[4.2]]} 4.7^[[4.3]] | | 25, 398, 445, 481 |  
| 10, 10, | .. | 7.0^[[6.9]]} 7.2^[[7.0]]} | 6.8^[[6.7]]} 6.4^[[6.2]]} | | .. |  
| 10, 10, 10, 10, 10 | SSSSS | 6.9^[[6.6]]} 7.0^[[6.8]]} 7.0^[[6.8]]}  
7.0^[[6.8]]} 6.6^[[6.4]]} | 6.7^[[6.4]]} 6.0^[[5.8]]} 6.6^[[6.4]]} 6.2^[[6.0]]}  
6.0^[[5.8]]} | | ..... |  
...	SS	6.6, . 6.6	6.7, . 6.3		...
2	.	7.2	6.8		.
10	S	7.0^[[6.8]]}	6.7^[[6.5]]}		.
...2,10..	...S^[[2]]SS.	7.0, 6.4, 6.3, 7.0, 6.5, 6.5, 7.0	6.1, 5.5, 5.9, 5.8,		
5.9, 5.5, 6.1		.....			
10,	.	7.0	6.7		426,

Handwritten astronomical catalog page 15 from Project PHaEDRA. The page contains a table with columns for K Line, F Line, Brightness, Corr Brightness, Mean Residuals, and No Rem. The handwriting is in cursive and includes various numerical values and symbols, some of which are crossed out. The page is numbered 15 in the top right corner.

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[9 column table]  
1855	1855	1900	1900	no.	may.			
R.a.	Dec.	R.a.	Dec.	Dim.	Dim.	Spectrum	no. Plate	no. Lines
0	37.8 + 70	17						
35.1	[[~~striktethrough~~]]10	[[~~striktethrough~~]]	.1 + 70	2	0	37.8 +		
70	17	43	7.8	III	929,	2,		
0	38.1 + 75	23	.2 + 75	8	0	38.1 + 75	23	36
0	39.1 + 74	27						
36	.2	[[~~striktethrough~~]]11	[[~~striktethrough~~]]	2+74	12	0	39.0 +	
74	26	24	5.5	II	876, 914, 284, 186, 929, 829, 843, 950, 835, 875, 849,			
848	7, 7, 8, 6, 6, 10, 10, 9, 11, 9, 8							
0	38.7 + 66	37	.0 + 66	22	0	38.7 + 66	37	58
0	39.5 + 54	41						
37.0	[[~~striktethrough~~]]12	[[~~striktethrough~~]]	.0 +					
54	26	0	39. [[~~striktethrough~~]]5	[[~~striktethrough~~]]	6 +			
54	4	[[~~striktethrough~~]]1	[[~~striktethrough~~]]	0	143	5.8	II	186, 829,
0	40.3+68	47	.6	6 + 68	32	0	40.3 +	
68	47	49	6.4	I<sup>d</sup>	28.4, (929I<sup>a</sup>)	(843II)	(950<sup>AI</sup>	(835<sup>III</sup>II<sup>2</sup>
a)	4,4,2, [[~~striktethrough~~]]2	[[~~striktethrough~~]]	3,3,3,5					
0	41.1 + 74	19						
38.2	[[~~striktethrough~~]]13	[[~~striktethrough~~]]	2 + 74	4	0	461 +		
74	18	29	5.8	II	876, 914 284, 186, 929, 829, 843, 950, 835, 875, 879,			
848	6,9,6,7,9,10,10,10,12,8,7,11							
0	40.5 + 54	46	.0 + 54	31	0	40.5 + 54	46	148
0	41.5 + 77	56	.4, 4 + 77	41	0	41.5 +		
77	56	25	7.0	III	929,843,950,914, (1019<sup>III</sup>II<sup>2</sup>),1564,	2,3,3,3,2,1		
0	42.0 + 81	25	.5	5 + 81	10	0	42.0 + 81	25
0	41.6 + 72	8	.8, 8 + 71	53	0	41.6 +		
72	8	37	6.5	III	929, (843<sup>AI</sup>III)	(950<sup>AI</sup>III), (835<sup>AI</sup>III)	(875<sup>AI</sup>III)	(914<sup>AI</sup>III)
3,3,2,3,2|39|[[~~striktethrough~~]]14|[[~~striktethrough~~]]|

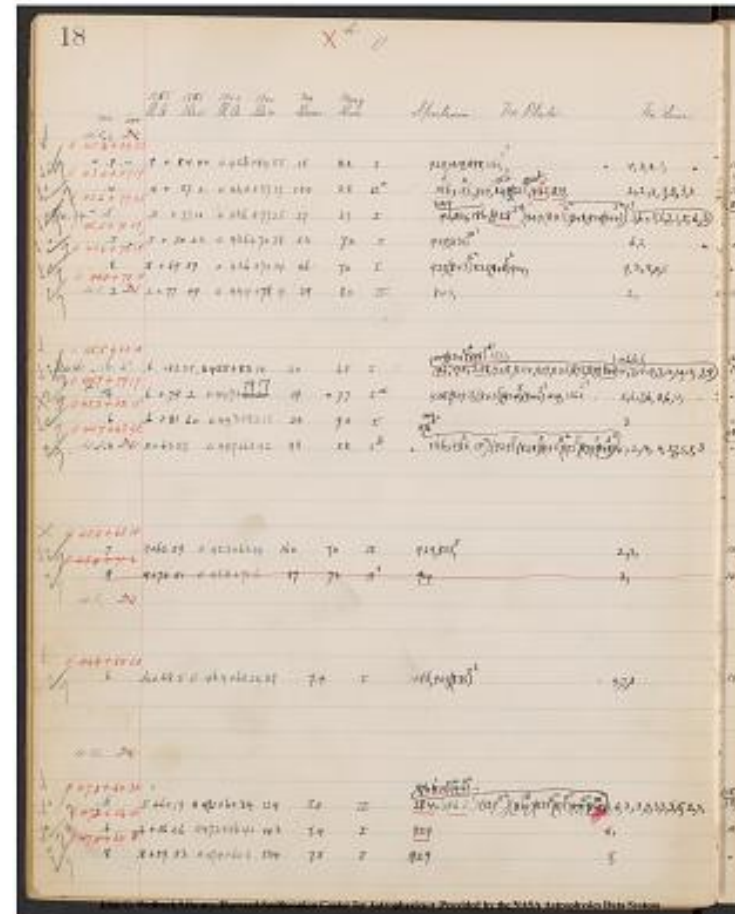


[[crossout]] 1 [[/crossout]]^[[h]] 0

| K Line. | F Line. | Brightness | Corr Brightness | Mean Residuals | no  
Rem. |

10, [[crossout]] 15 [[/crossout]] m	.	7.1^[[6.8]]	7.2^[[6.9]]	.	
10	S	7.0^[[6.8]]	5.8^[[5.6]]	.	
. 1, 2, 2, 2, 2, 2, 2, 5. ]	[[crossout]] 16 [[/crossout]]	..SSSSSSSSS			
5.8, 6.4, 5.5, 6.4, 6.3, 5.8, 6.0 5.9, 6.2, 6.4, 5.5, 5.7	5.9, 6.2, 5.8, 5.9,				
5.8, 5.9, 5.7 5.7, 5.4, 5.9, 5.1, 5.6		.....			
10, 10	.S	7.1^[[6.9]]	6.9^[[6.7]]	6.2^[[6.0]]	6.4^[[6.2]]
.. [[crossout]] 17 [[/crossout]]	.S	5.9, 6.5.	4.9, 5.2		..
10^[[nu]] [[?]]], 10, 10. 10, 10, 10	..S^[[nu.]]SSSS	. 6.5, 6.5, 6.6,			
6.8^[[6.7]]	7.0^[[6.8]]	6.5	. 6.5, 5.7, 6.4, 6.2^[[6.1]]	6.2^[[6.0]]	6.1
414, .... 541					
.....? 2 [[crossout]] 18 [[/crossout]]	..S.SSSSSSS	5.7, 6.4, 4.9, 6.0,			
6.2, 5.6, 5.9, 5.5, 5.8, 6.3, 5.6, 5.6	5.8, 6.2, 5.2, 5.5, 5.7, 5.7, 5., 5.3,				
5.0, 5.8, 5.2, 5.5		.....			
.	.	7.0,	6.0,		.
10, 10, 10, 10.	.SSS..	7.2^[[6.9]]	7.0^[[6.8]]	7.1^[[6.9]]	
7.0^[[6.8]]	6.9^[[6.8]]	7.1^[[6.9]]	7.8^[[7.5]]	6.8^[[6.6]]	7.5^[[7.3]]
7.2^[[7.0]]	6.2^[[6.1]]	7.3^[[7.1]]		.....	
10, 10	..	7.1^[[6.9]]	7.0^[[6.8]]	8.0^[[7.8]]	7.6^[[7.4]]
10, 10, 10, 10, 10, 10 10	..SSS^[[?]]S.	6.6^[[6.3]]	7.0^[[6.8]]		
7.1^[[6.9]]	6.9^[[6.6]]	7.2^[[6.9]]	6.5^[[6.3]]	6.8^[[6.5]]	6.8^[[6.5]]
6.4^[[6.2]]	7.1^[[6.9]]	6.5^[[6.2]]	6.9^[[6.6]]	6.3^[[6.1]]	6.2^[[5.9]]
427 .....					
[crossout] 19 [[/crossout]]					

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[[cross out]] 1 [[\crossout]] h 0

| K Line | F Line | Brightness. | Corr Brightness | Mean Residuals. | No  
Rem. |

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

[[\crossout]] 25 [[\crossout]] m | | | | |

10 ... | ... | 7.0, 6.7, 7.0 6.7 | 8.5, 7.9, 8.4, 7.8 | | ... |

[[symbol - checkmark]] 12, 15, 15, 12, 12, 10, 10 | ..SSSSS | 5.7, 52,  
52, 5.8 ^[[5.7]] } 5.8, 5.7, 5.7 | 4.8, 4.3, 48, 4.6 ^[[4.5]] } , 4.8, 4.8, 4.2 | 22,  
30, 403, 447, 490 ^[[501, 512]] |

| 10, 10, 10, 8, 10, 10, 10, 10 ^[[5]] | ..... SSSSS | 7.0, 6.4, 6.9, 6.5, 6.5,  
6.6, 6.7, 6.3 ^[[6.6 6.5]] | 6.9, 6.7, 6.9, 6.7, 7.0, 6.2, 6.4, 6.4 6.4 ^[[6.7]] |

| ..... 464 ... ^[[...]] |

| 10 | ... | 6.9 7.1 ^[[6.9]] | 7.0 6.6 ^[[6.4]] | | ... |

| 10, 10, 10, 5 | .SSS. | 6.4, 6.9, 6.8, 6.8, 6.5 | 6.5 6.2, 6.3, 6.1, 6.2 | |

469... |

| 10 [[\crossout]] 26 [[\crossout]] | . | 7.5 ^[[7.3]] | 7.3 ^[[7.1]] | | . |

| [[gamma]] | | | | |

10, 1, 10, 2, 2, 2, 2, 2, 2, 5 ^[[2, 2, 2]] | ..... SSSSSSSS ^[[S]] | 5.7, .  
48, 6.1, 47, 5.6, 5.0 ^[[5.3, 5.7, 5.0, 5.8, 4.8, 5.3]] | ., 5.8, . 5.7, 62, 5.9,  
6.2, 5.6 ^[[5.4, 6.2, 5.9, 5.7, 5.9, 6.2]] | | ..... ^[[...]] |

| ..... 2 . | .. S ^[[2]] SSS. | 6.8, 6.5, 7.0, 6.6, 6.9, 6.7, 6.6 | 7.2, 7.2, 6.9,  
6.9, 6.9, 7.1, 6.9 | | ..... |

| . | . | 7.0 | 7.7 | | . |

| . 10, 2, 10, 5, 5, 1.0, 10 ^[[10]] [[\crossout]] 27 [[\crossout]] | .. S .  
SSSSS | 6.9, 6.4, 5.9, 6.5, 6.3, 6.6, 6.9 ^[[6.6 6.4]] | 6.2, 5.7, 5.7, 5.5,  
5.5, 5.9, 5.6 ^[[5.6 5.5]] | | 2 3, 36, .. 498 .... |

| 10, . | .. | 6.8, 7.1 | 7.0, 6.3 | | .. |

[[\crossout]] | 10 | S | 6.0 | 5.7 | | . | [[\crossout]]

[[\crossout]] 28 [[\crossout]] | | | | |

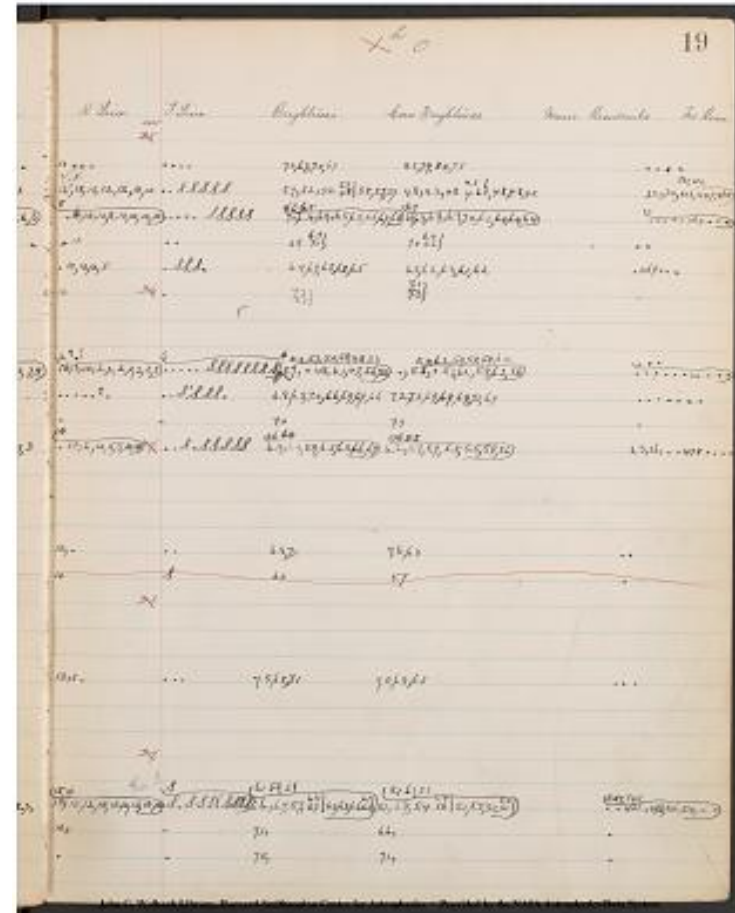
| 10, 5 . | ... | 7.5, 6.8, 7.1 | 7.0, 6.8, 6.5 | | ... |

[[\crossout]] 29 [[\crossout]] | | | | |

10, 10, 12, 10, 10, 10, 10, 10, 10 ^[[15, 10]] | S.SSSSSSSS ^[[S]] | 5.6,  
6.7, 5.7, 6.7 ^[[6.5]] | 6.0, 6.3, 6.6 6.2 ^[[6.1]] ^[[6.1 5.8, 5.8]] | 5.1, 5.9,  
5.4, 5.6 ^[[5.4]] | 5.1, 5.5, 5.2 5.1 ^[[5.0]] ^[[5.1 5.1, 5.1]] | | .. 421. 493,  
506, 514, .. ^[[527, 545]] |

| 10, | . | 7.1, | 6.6, | | . |

| . | . | 7.5, | 7.1, | | . |



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~~1~~~~0~~<sup>h</sup>

[10 columned table]

R.A 1855|Dec. 1855|R.A 1900|Dec. 1900|No. DM.|Mag.  
DM.|Spectrum|No. Plate|No. Lines|

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

0 47.9 +65 54<sub>m</sub> 45.1

~~m~~30~~0~~<sub>m</sub> 45.1

.1|+65 39|0 47.9|+65 54|106|7.0|914| 5|

0 49.9 +82 34<sub>m</sub> 46.0

~~31~~~~0~~<sub>m</sub> 49.9|+82

34|23|8.4|929,(1019)<sup>h</sup><sub>m</sub> 1564,2, 1|

0 49.0 +58 26<sub>m</sub> 4.4|+58 11|0 49.0|+58

26|134|5.0|929, (829)<sup>h</sup><sub>m</sub> (835)<sup>h</sup><sub>m</sub>

(848)<sup>h</sup><sub>m</sub> (914)<sup>h</sup><sub>m</sub> 2, 1, 3, 3, 3,|

0 49.9 +76 56<sub>m</sub> 7.7|+76 41|0 49.9|+76

56|28|8.0|843, 1019,2, 2|

47 ~~32~~<sub>m</sub> 50.2|+60 43<sub>m</sub> 5.5|+ 60 28|0 50.2

+60|43|35|7.9|2929,4,|

0 50.4 +68 15<sub>m</sub> 6.6|+67 60|0 0.4|+68

15|81|6.7|186, (929) (835)<sup>h</sup><sub>m</sub> (848)<sup>h</sup><sub>m</sub>

(914)<sup>h</sup><sub>m</sub> 2, 8, 3, 3, 7|

0 50.8 +74 57<sub>m</sub> 7.7|+74 42|0 50.8|+74

57|41|8.0|284, 929, 950, 835, 914,

(1019)<sup>h</sup><sub>m</sub> 5, 5, 5, 6, 6, 3,|

~~0~~ 48 +50 50<sub>m</sub> 50.7|+60

11<sub>m</sub> 0 50.7|+60

10|144|2.3|284, 186<sup>h</sup><sub>m</sub> (186)<sup>h</sup><sub>m</sub> (929)?, 829, 835, 875, (879)?

(848)<sup>h</sup><sub>m</sub> (876)<sup>h</sup><sub>m</sub> (914)<sup>h</sup><sub>m</sub> 9<sup>h</sup><sub>m</sub> 6<sup>h</sup><sub>m</sub> 0<sup>h</sup><sub>m</sub> ?, ?, 8?, 9?, ?,

?, 9, 8, 9|

0 58.8 +59 50<sub>m</sub> 48.1

~~33~~<sub>m</sub> 49|+59 35|0 50.8|+59

49|146|6.3|284, 929, 829, 835, 875, 879, 848, 876, 914|4, 8, 7, 7, 8, 4,

6, 5, 6,|

0 50.8 +58 38<sub>m</sub> no.

1<sub>m</sub> 0 50.7|+58

38|138|5.0|284, 829, (929)<sup>h</sup><sub>m</sub> (835) (875)<sup>h</sup><sub>m</sub>

879, 848, (876)<sup>h</sup><sub>m</sub> 2, 2, 6, 3, 3, 3, 3,|

0 50.8 +59 30<sub>m</sub> no. 1<sub>m</sub> 0 50.8|+59

30|147|8.1|929,3,|

0 52.8 +84 4<sub>m</sub> 4.4|+83 49|0 52.8|+84

4|20|7.0|173, (928)?, 834, 929, 835, 875, 879, 844, 1019, 884

(898)<sup>h</sup><sub>m</sub> 152<sup>h</sup><sub>m</sub> 6, 7, 4, 9, 10, 7, 7, 5, 9,

4,6|

0 52.1 +80 1<sub>m</sub> 37.6|+79 46|0 52.1|+80

1|24|6.5|928, (979)<sup>h</sup><sub>m</sub> (843)<sup>h</sup><sub>m</sub> (835)<sup>h</sup><sub>m</sub> (875)<sup>h</sup><sub>m</sub>

(848)<sup>h</sup><sub>m</sub> (914)<sup>h</sup><sub>m</sub> (844)<sup>h</sup><sub>m</sub> (1019)<sup>h</sup><sub>m</sub>

(939)<sup>h</sup><sub>m</sub> 7, 4, 4, 3, 4, 3, 3, 6, 3, 4,|

0 51.6 +69 58<sub>m</sub> 7.7|+69 43|0 51.6|+69

58|55|6.8|284, 929, 835, (875)<sup>h</sup><sub>m</sub> 848,5, 9, 5, 3, 4|

0 51.4 +54 25<sub>m</sub> 8.8|+54 10|0 51.4|+54

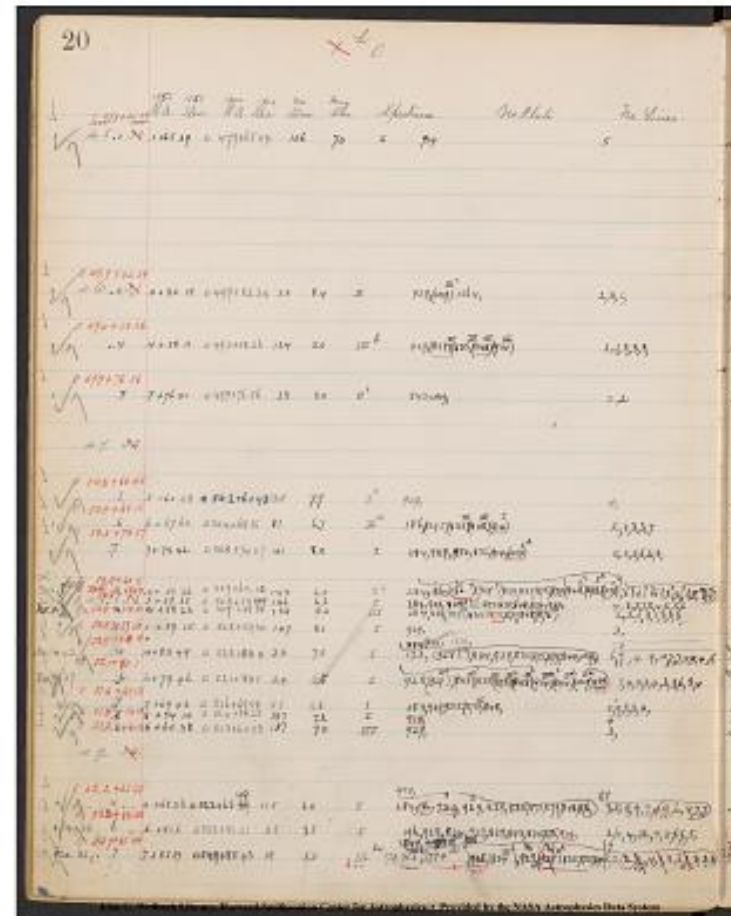
25|187|7.2|914<sub>m</sub> 4|

0 51.3 +60 53<sub>m</sub> 6.6|+60 38|0 51.3|+60

53|157|7.0|929,3,|

49 ~~34~~<sub>m</sub> 52.2|+65 48<sub>m</sub> 4.4|+65 33|0 52.2|+65

~~29~~<sub>m</sub> 49|115|6.0|284, (875)<sup>h</sup><sub>m</sub> 186,





$929^{[1]}, [\underline{929^{[2]}}, 829, 835, 875, 879, 848, 876, 914|7, 5,$   
 $9, 9, 7, [\text{[strikethrough]}4[\text{[strikethrough]}], 9, 6, 4, 7, 7, 7|$   
 $|0\ 53.3 + 81\ 21[\text{[subscript]}]\text{No. } 38\ .6[\text{[subscript]}], 6|+81\ 6|0\ 53.|+81$   
 $21|25|7.5|196, 928, 834, 929, 829, 843, 835, 875,$   
 $[\underline{914}], [\underline{3, 6, 4, 12, 4, 5, 6, 8, 5,}]$   
 $|0\ 54.9 + 85\ 44[\text{[subscript]}]\text{No. } 31\ .7[\text{[subscript]}], 7|+85\ 29|0\ 54.9|+85$   
 $43|19|5.0|11^{[bc]}|173, [\underline{753^{[11b]}]}\text{[underline]},$   
 $[\underline{(774^{[11b]})}]\text{[underline]}, [\underline{928}]\text{[underline]},$   
 $(834^{[11b]}), 929[\text{[strikethrough]}^{[(1)]}]\text{[strikethrough]},$   
 $[\text{[strikethrough]}]\text{[underline]}(929[\text{[strikethrough]}^{[(2)]}]\text{[strikethrough]}^{$   
 $[\text{[?]}])\text{[underline]}]\text{[strikethrough]} 835, 875, 879|2, 2, 1, 2, 2, 4,$   
 $[\text{[strikethrough]}]1, [\text{[strikethrough]}]3, 3, 3, 3, 3|$

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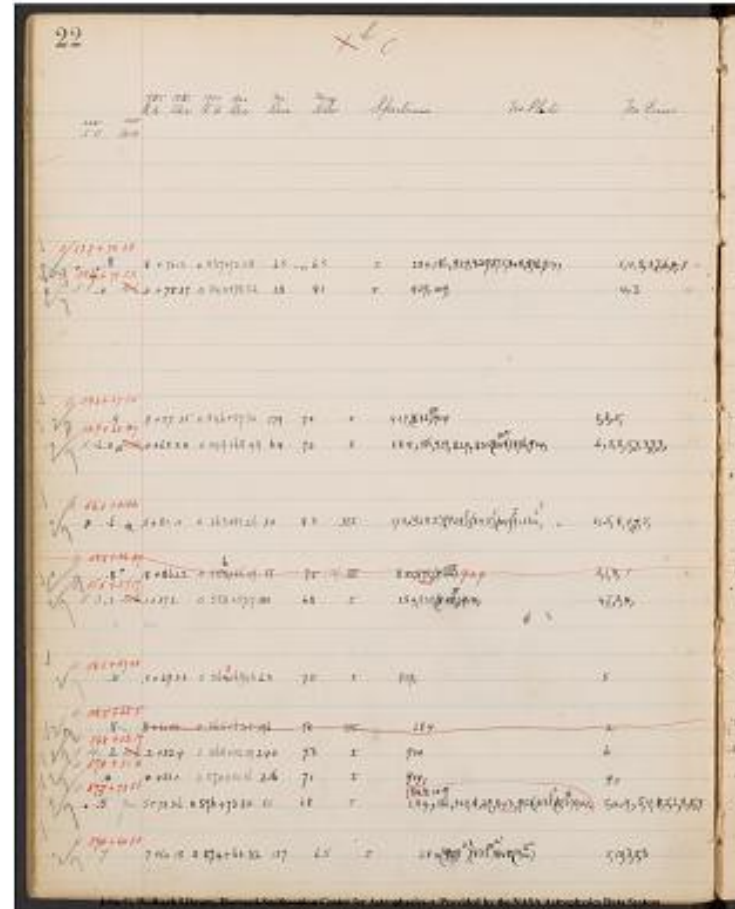
</stri<ethrough>[...].S<stri<ethrough> .  
</stri<ethrough>|SSSS|6.1^[[5.9]]|6.3^[[6.0]]|6.9^[[6.5]]|<stri<ethrough>  
> 5.9^[[5.5]]} </stri<ethrough>[...]|6.5^[[6.1]]|5.6^[[5.3]]|<stri<ethrough>  
6.6  
</stri<ethrough>|6.2^[[5.6]]|7.7^[[6.5]]|7.2^[[6.9]]|7.1^[[6.7]]|<stri<ethrou<br>gh> 7.3^[[6.9]]}  
</stri<ethrough>[...]|7.1^[[6.7]]|7.3^[[7.0]]|<stri<ethrough> 8.3  
</stri<ethrough>|7.3^[[6.7]]| |46,|284,|293,|<stri<ethrough> 350  
</stri<ethrough>[...],|371,|442|<stri<ethrough> . </stri<ethrough>|500|

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22|~~1~~|~~h~~|0|

|1855 R.A.|1855 Dec.|1900 R.A. |1900 Dec.| No. DM.| Mag.  
DM.|Spectrum|No. plate|No. Lines|  
|5.0|~~4.0~~|  
|0|53.7 + 70|28|  
|8|8 + 70|13|0|53.7 +  
70+28|65|6.5||284, 186, 929, 829, 875, 848, 876, 914, |5, 4, 8, 3, 7, 6, 4, 7|  
|0|54.5 + 78|52|  
51.0|~~41~~|~~0~~ + 78|37|0|54.4 +  
78|52|28|8.1||929, 1019, |4, 3|  
|0|54.6 + 57|50|  
|9|.9 + 57|35|0|54.6 + 57|50|179|7.0||929, (835<sup>III</sup>), 914|8, 3, 5, |  
52|0|~~42~~|~~0~~ + 68|34|0|54.9 +  
68|49|6.4|7.0||284, 186, 929, 829, 835, (848<sup>II</sup>a)876,  
914, |6, 5, 8, 5, 7, 3, 7, 7|  
|0|56.3 + 81|26|  
|.5|.5 + 81|11|0|56.3 +  
81|26|30|8.3||173, (928<sup>I</sup>), (929<sup>I</sup>), (843<sup>I</sup>), (1019<sup>I</sup>)1564<sup>I</sup>^?, |1, 5, 8, 4, 7, 5,  
|  
|~~0~~|58.8 + 86|37|~~0~~|  
|.8|.8 +  
86|22|~~0~~|58.8^6+86|37|17|7.5||835, 875, (844<sup>III</sup>)929|3, 1,  
3, 1|~~0~~|  
|0|55.6 + 57|17|  
|5|3.1|~~43~~|~~1~~ + 57|2|0|55.8 +  
57|17|180|6.8||284, 929, (848<sup>II</sup>), 914, |4, 7, 3, 4, |  
|0|56.5 + 69|48|  
|.5|.5 + 69|33|0|56. |~~4~~|~~0~~|5 +  
69|48|63|7.5||929, |5|  
0	~~56.5~~ + 62	5	~~0~~							
.8	~~8~~ + 61	50	0	56.5 + 6	2.5	196	7.8		824	2
0	56.8 + 52	19								
5	4	2	~~44~~	~~2~~ + 52	4	0	56.8 +			
52	19	240	7.3		914	6				
0	57.0 + 51	16								
.4	.4 + 51	1	0	57.0 + 51	16	216	7.1		914,	4,
0	57.7 + 73	51								
.5	.5 + 73	36	0	57.6 + 73	50	51	6.8		844, 1019 284, 186, 929, 8, 29, 843,	
950, (835<sup>I</sup>^2), (875<sup>III</sup>)914,										
0	57.4 + 60	33								
7	7 + 60	18	0	57.4 +						
60|32|157|6.5||284(929<sup>I</sup>^2)(835<sup>III</sup>a^2)848, (914<sup>II</sup>w)|5, 10, 3, 5, 3|



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~~1~~<sup>h</sup> 0

[[6 columned table]]

K Line. | F Line. | Brightness | Corr. Brightness. | Mean. Residuals. | No. Rem. |

-----

~~46~~ ~~7.5, 6.9 8.2, 7.3~~

..2.10, 10.5 ..S.SS.S 6.4, 4.1, 6.2, 6.7, 6.8, 6.7, 6.8,  
6.4 6.3, 6.7, 6.3, 6.0, 6.4, 6.0, 6.2, 6.1 .....  
.. ~~46~~ 7.5, 6.9 8.2, 7.3 .

5, 10, 5 ..SS 7.0 7.0 7.2} 6.8 6.6, 6.0 6.2} 6.0 ...

.....5.. ~~47~~ .....SSSS 5.8, 7.0, 6.4, 7.0, 6.7,  
6.8, 6.9, 6.5 5.6, 6.5, 6.4, 6.2, 6.1, 6.0, 6.2, 6.1 .....520..

..2..10, ..S.S. 7.3 7.7} 6.9, 6.5, 6.9, 6.6, 6.3 7.1 7.5} 7.5, 7.4, 7.0, 7.2,  
6.8 .....

10.. SSS 6.8 7.0} 6.7 7.0} 6.6 6.9} 8.1 8.3} 8.1 8.4} 5.6 5.9 ...  
.10, 10. ~~48~~ ..SS 6.9, 7.0, 6.9, 6.6 6.3, 6.6,  
5.7, 5.8 ....

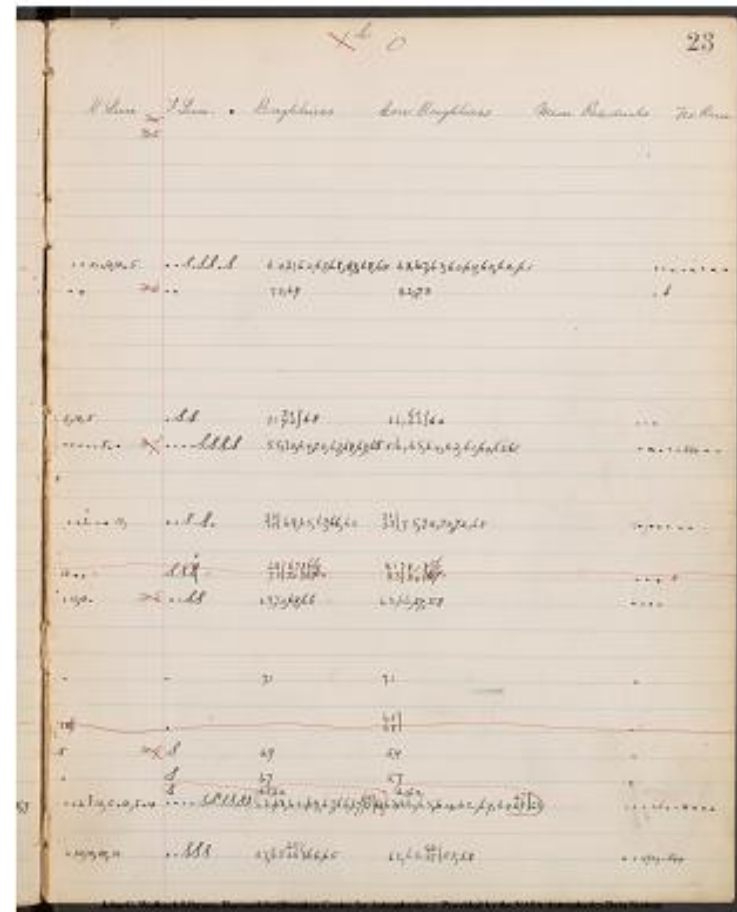
. . 7.1 7.1 .

105 . 6.5 6.8} .

5 ~~49~~ 8 6.9 5.9 .

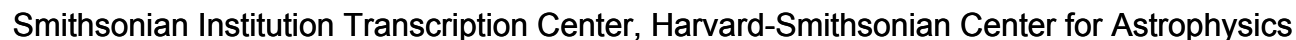
.2?10, 5 . 10, 5, 10 ....SS^2SSSS 6.5, 6.2, 6.2, 6.8, 6.2, 6.9, 6.7, 6.6,  
6.7, 6.6, 6.92, 6.9} 6.4 6.3, 6.6, 6.5, 6.4, 6.2, 6.7, 6.4, 6.9 6.7 } 6.3

.10, 10, 10, 10 | . . SSS 6.7, 6.5 6.6 ^6.5} 6.6, 6.5  
6.2, 6.2, 5.7 ^5.6} 5.5, 5.8



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| 1 2.4+53 42|



|.7|7+53 27|1 2.4+53 42|229|6.8|I 28 4,914,|6,7|  
| 1 2.4+57 44|  
|.7|7+57 29|1 2.4+57 44 200|6.5|I 28 4,929, 835, 848, 876,  
914,|8,9,7,7,8,9|  
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~~1~~ 0h

[6 columned table]

K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remarks |

~~m~~ | | | | |  
~~55~~ | | | | |  
 10, 10, 10, 10 | SS | 6.5, 6.6 | 6.8 | 6.4 6.0 |  
 6.2, 5.7 | 5.7 | 5.7 5.1 | 423, 494... |  
 10 | S | 7.1 | 6.1 | | |  
 . | 7.0 | 6.4 | | |  
 10 | S | 6.9 | 6.0 | | |  
~~56~~ | | | | |  
 10 | . | 6.9 | 6.7 | | |  
 . | 7.0 | 8.1 | | |  
 . 2, 5, 10, ... ~~57~~ | ..SSS.S | 6.4, 6.3, 6.7 | 6.9 | 6.8,  
 6.8, 6.3 | 6.3, 6.4, 6.2, | 6.5 | 6.1, 6.2, 6.0 | | .....  
 10, 10, 10, 10, 10, 10 | SSSSSSS | entire stringed circled  
 | 6.3 | 6.5 | 6.6 | 6.9 | 7.0 | 6.9 | 7.1 | 6.2 | 6.5 | 6.4 |  
entire string circled | 7.0 | 7.2 | 6.5 | 6.8 | 6.9 | 7.1 | 7.1 | 7.3 |  
 | 6.5 | 6.8 | 6.4 | 6.6 | 6.8 | | 417..... |  
 10, 10 | S | 7.0, 7.0 | 6.6, 5.8 | | 404. |  
 10 | ? | 5.9 | 5.4 | | |  
 10, 10 | SS? | 6.4, 6.7, 6.4, 5.9 | 6.1, 5.8, 5.9, 5.3 | | .... |  
 2, 10, 10 | SS? | 6.4, 6.7, 6.4, 5.9 | 6.1, 5.8, 5.7, 5.3 | | .... |  
 10 | . | 7.2 | 7.4 | | |  
 . 2, 10, .. | SSS | 6.6, 6.7, 6.9, 6.6 | 6.2, 5.7, 5.7, 5.8 | | .... |  
 . | 6.9 | 6.0 | | |  
 10, ~~10, 10, 10~~ | .SSS | 6.0, 6.5 | 6.8 | 6.2 | 5.3, 5.2  
 | 5.5 | 5.6 | 5.3 | | |  
 . | 6.7 | 6.8 | | |  
~~59~~ | | | | |  
 10, 2, 60 | .SS | 6.7, 6.8, 6.5 | 6.7, 6.2, 6.1 | | ..540 |  
 .10, | S | 6.8, 6.8, 6.7 | 6.1, 5.8 | | ... |  
 ....5, 2 | ..SSSS | 6.0, 6.2, 6.5, 6.5, 6.5, 6.0 | 5.4, 5.8, 5.5, 5.3, 5.4, 5.2 | | ..... |

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~~2~~<sup>[[h]]</sup> 1

[[10 columned table]]

| 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No. DM. | Mag. DM. |  
Spectrum. | No. Plate. | No. Lines. |

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

| 1. 3.7+79 9<sup>[[m]]</sup> 0|.0|+78 54|1.3.6|+79

8|34|5.6|<sup>[[d]]</sup>161.<sup>[[u]]</sup>196.<sup>[[u]]</sup>284<sup>[[u]]</sup>186<sup>[[u]]</sup>173<sup>[[u]]</sup>929,829<sup>[[u]]</sup>843<sup>[[u]]</sup>950<sup>[[u]]</sup>835<sup>[[u]]</sup>5?

5,6,7,6,6,11,9,10,10,9

|X. 1 3.5+56 50|.8|+56 35|1 3.5|+56 48|207|6.7|<sup>[[2]]</sup>

929,914<sup>[[u]]</sup>12,3|

|no. 6 1 3.9+68 15|.9|+68 0|1 3.9|+68 15|77|6.0|

284.<sup>[[u]]</sup>186<sup>[[u]]</sup>929.<sup>[[u]]</sup>829<sup>[[u]]</sup>875<sup>[[u]]</sup>879,848,876,|7,6,10,8,8,9,8,7,|

|. 1 4.0+67 15|.1|+67 0|1 4.0|+67 15|98|6.8|<sup>[[u]]</sup>929,(914)<sup>[[u]]</sup>2,3|

|no. 2|~~[[u]]~~0|+78 54|1 3.6|+79

8|34|5.6|<sup>[[d]]</sup>196.<sup>[[u]]</sup>284<sup>[[u]]</sup>186<sup>[[u]]</sup>173<sup>[[u]]</sup>929,829<sup>[[u]]</sup>843<sup>[[u]]</sup>950<sup>[[u]]</sup>835<sup>[[u]]</sup>5,6,7,6,6,11,9,10,10,9,~~[[u]]~~

|X.<sup>[[u]]</sup>1 4.0+63 39|.2|+63 24|1 4.1|+63 39|147|7.8|914,|4,|

|. 1 3.9+54 13|.2|+53 58|1 3.9|+54 13|236|7.0|914,|10,|

|. 1 4.6+57 10|.9|+56 56|1 4.6|+57 10|211|8.5|1019|2|

|. 1 4.9+56 14 28|.2|+55 60|1 4.9|+56 14|255|8.0|284,914,|5,6|

|. 1 5.0+63 40|.1|+63 26|1 5.0|+63

40|149|6.0|284,929,835,879,848,876,914,|7,11,8,6,10,8,9,|

|. 1 5.0+54 387|.3|+54 23|1 5.0|+54 37|236|4.8|284,848,876,|9,11,9,|

|. 1 5.3+64 27|.4|+64 13|1 5.1|+64

29|127|5.9|284,929,835,879,848,876,914,|8,8,8,6,8,8,|

|. 1 ~~[[u]]~~6.1+<sup>[[64 5]]</sup>3|.2|+63 51|1 6.1|+64

5|156|7.8|848,|8,|~~[[u]]~~

|. 1 6.2+64 28|.3|+64 14|1 6.2|+64 28|129|7.4|914|4,|

|no. 19 1 7.7+79 22|.9|+79 8|1 7.~~[[u]]~~2~~[[u]]~~36|6.5,|1.1|~~[[u]]~~284~~[[u]]~~929~~[[u]]~~843~~[[u]]~~875,(84

8<sup>[[u]]</sup>914<sup>[[u]]</sup>844<sup>[[u]]</sup>1019<sup>[[u]]</sup>877

843<sup>[[u]]</sup>2,2,3,3,5,3,5,3,4, 3 1,|

|. 1 6.8+61 10 4|.0|+60 56|1 6.8|+61

10|186|6.6|284,929,835,848,876,<sup>[[u]]</sup>914<sup>[[u]]</sup>6,9,6,5,3,6,7|

|. 1 7.7+60 21|.9|+60 7|1 7.7|+60 21|188|7.2|929,(835<sup>[[u]]</sup>4,2|

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~~2~~<sup>1</sup>

[6 columned table]

| K Line. | F Line. | Brightness. | Corr. Brightness. | Mean. Residuals. |  
No. Rem. |

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

| 10.2.71.2. .... | .....s?ss.s | 6.5 6.4, 5.6,6.3,6.3,5.3,4.3,6.0,6.1,5.6,6.1  
5.1 | | | | |

| 10.10 | S | 7.2,6.7 | 6.7,5.8 | [check mark] | .. |

| .....2.... | SSSSSS | 5.1,6.3,5.5,6.2,6.2,5.9,6.4,6.0,5.7 |

4.9,5.8,5.5,5.4,5.6,5.4,5.3,5.2,5.0 | [check mark] | ..... |

| 10.10. [~~6~~] | S | 6.8,6.6 | 6.7,6.1 | .536 |

| ..~~2~~?1.2. .... | .....S?Ss.s, |

6.4,5.6,6.3,6.3,5.3,4.3,6.0,6.1,5.6,6.1 |

6.5,6.1,6.5,5.9,5.7,5.0,5.9,7.9,6.1,6.2 | [check mark] |

.....~~1~~ |

| . | S | 6.9 | 6.3 | | . |

| . | S | 5.6 | 4.7 | | . |

| . | s | 6.6 | 5.9 | [check mark] | . |

| 10. [~~7~~] | S | 6.6,6.7 | 5.9,5.8 | [check  
mark] | .. |

| ....10.... | S?SSSSS | 5.5,5.7,6.2,6.5,6.5,6.4,5.8 |

5.1,5.5,5.4,5.2,5.5,5.5,5.2 | [check mark] | ..... |

| 2,2,2 | .SS | 5.4,6.2,5.5 | 4.7,4.9,4.3 |

| .... |

| .....?.. | ..SSSSS | 5.3,5.7,6.2,6.6,6.3,6.2,5.7 | 4.9,5.5,5.4,5.3,5.3,5.1

| [check mark] | ..... |

~~8~~ | S | 6.3 | 5.3 | | . |

~~1~~ | S | 6.9 | 6.3 | | . |

| .10,10,10,10,10,10,10,10 | S.SSSSS,s,ss |

5.8,6.6,6.7,6.6,6.1,6.2,6.0,6.6,6.4 | 6.5,6.7,6.9,6.5,6.4,6.2,6.4,6.6 52 |

[check mark] |

416...539.575.468 |

| 2..... [~~9~~] | ...S.SS |

6.8,6.5,6.7,6.6,7.0,6.5,6.1 | 6.3,6.2,5.8,5.5,6.1,5.8,5.4 | [check mark] |

..... |

10,10 | .. | 7.0,7.0 | 6.7,6.1 | [check mark] | .. |

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[[~~2~~]] 1h

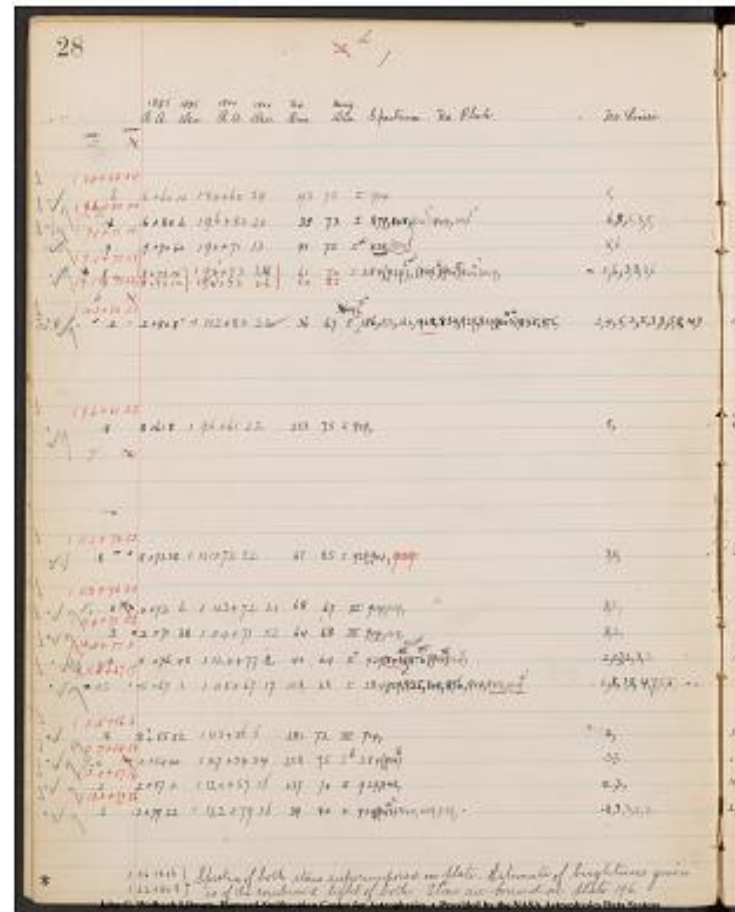
[[10 columned table]]

| 0 | 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |  
|---|---|---|---|---|---|---|

M 5. 10 | | | | | | | | | |  
1 8.4+60 24 | | | | | | | | | |  
.6 | .6+60 | 10 | 18.4+60 | 24 | 193 | 7.5 | 1 914 | | 5, |  
. 19.6+80 20 | | | | | | | | | |  
0.5 | | | | | | | | | |  
.6 | .6+80 | 6 | 19.6+80 | 20 | 35 | 7.3 | 1 879,848,(914<sup>12</sup>)844,1019<sup>12</sup> |  
6,8,5,5,5 |  
checkmark 19.1+71 14  
.9 .9+70 60 190+71 13 90 7.5 I<sup>d</sup> 829,(914)<sup>1</sup> 5,6  
checkmark 19.1+73 28  
.8 .8+73 14 19.1+73 28 61 7.0 I 284,(929<sup>12</sup>Id2),((829<sup>12</sup>II)(914<sup>12</sup>II)  
(844<sup>12</sup>II)1019, .5,6,3,3,3,6  
19.1+8 73 26 8+73 12 19.1+73 26 6.0 8.5  
6 11  
1 10.2+80 22  
No.8 . . 2 . 2+80 8 . 1 10.2+80 22 36 6.7 I,  
186,173,161,928,834,929,829,(843<sup>12</sup>Ia),835,875  
checkmark 19.6+61 22  
.8 .8+61 8 1 9.6+61 22 233 7.5 I 929, 5,  
7 12  
checkmark 1 11.1+72 52  
.checkmark .8 .8+72 38 1 11.1+72 52 67 8.5 I 929,914,939 3,5,  
checkmark 1 11.2+72 20  
checkmark 8. 0 .0+72 6 1 11.3+72 21 68 6.7 III 914,1019, 3,3,  
checkmark 1 11.4+71 52  
.2 .2+71 38 1 11.4+71 52 64 6.8 III 914,1019, 3,2,  
checkmark 1 12.0+77 2  
.4 .4+76 48 1 12.0+77 2 40 6.4 II<sup>a</sup>  
929,(843<sup>12</sup>III950III)(876<sup>12</sup>III)(914<sup>12</sup>III)(1019II) 2,2,3,3,3,3  
checkmark 1 11.5+67 17  
.5 .5+67 3 1 11.5+67 17 108 6.8 I 284,929,835,848,876, 914,844,1019  
6,8,1,8,4,7,5,5 .  
checkmark 1 11.5+56 6  
.8 .8+55 52 1 11.5+56 6 281 7.2 III 914, 3,  
checkmark 1 11.7+54 54  
9.0 4.0+54 40 1 11.7+54 54 258 7.5 I<sup>1</sup> 284,(914<sup>12</sup>II) 3,3  
1 12.0+57 16  
.2 .2+57 2 1 12.0+57 10 237 7.0 II 929,848, 2,3,  
checkmark 1 13.2+79 36  
.2 .2+79 22 1 13.2+79 30 39 8.0 I 929,(843<sup>12</sup>II<sup>2</sup>)844,1019,939,  
.8,3,3,5,3,

15.6+806}Sheet of both stars superimposed on plate. Estimate of  
brightness given  
16.2+808}is of the combined light of both. Stars are found on plate 196.

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~~2~~ 1h

[6 columned table]

K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remarks |

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

~~m~~

~~15~~

.	S	6.7	6.0		.		
5, 10, 10, 10	SSSs	6.7, 6.6, 6.6, 6.9, 6.5	6.4, 6.6, 7.0, 7.0, 7.0		.....		
10 2	.S	6.4	.	5.7	.		..
..10, 10, 10, .	...SSs	6.4, 6.2, 6.8, 6.4, 6.4, 6.2	6.4, 6.4, 6.2, 6.2, 5.9, 6.		.....		
~~16~~							
10...[[?]][[?]]...10, 10.	.....SSSS	6.7, 6.8, 6.8, 6.8, 5.4, 6.7, 5.6, 6.5, 6.3, 6.6, 6.3	^[[5.8]] 7.1, 6.5, 6.9, 5.9, 6.4, 6.4, 6.5, 6.3, 6.8, 6.6		8.....470, ^[[.]].		

| 2 | . | 7.1 | 6.9 | | . |

~~17~~

| ?2 | .S | 7.2, 6.7 | 7.4, 6.5 | | .. |

| 10, 10, ~~18~~ | Ss | 6.7 7.0 } 6.8 7.0 | 6.5 6.8 } 6.7 6.9 | | .. |  
 | 10, 10 | S. | 6.9 7.1 } 6.8 6.9 | 6.7 6.9 } 6.7 6.8 | | .. |  
 | 10, 10, 10, 10, 10, 10 | ..SSs | 6.8 6.6 6.9 } 6.6 6.7 6.9 7.2 } 6.3 6.5 }  
 | 6.5 | 7.3 6.3 6.6 } 6.9 7.0 6.7 7.0 } 6.4 6.6 } 6.7 | | 402..... |  
 | ...10.... | ...SSs2 | 5.8, 6.5, 7.0, 6.7, 6.9, 6.4, 6.7, 6.5 | 5.5, 6.4, 6.3, 5.8, 6.1, 5.9, 5.9, 6.1 | | ..... |

10	S	6.8 7.1 }	5.9 6.2 }		.
.10 ~~19~~	.S	6.6, 6.7	5.9, 5.8		1.5.
10, 10,	.S	6.9, 7.0	6.5, 5.8		..
2, 10...	.SSs?	6.7, 6.9, 6.8, 6.6, 6.5	7.4, 6.8, 6.8, 7.0, 7.1		.....

\*

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[[~~2~~]] 1h

[[10 columned table]]

| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |

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

M 10 3

X 1 13.8+75 42

No:3 .3 .3+75 28 1 13.8+75 43 59 6.2 .1

284,173,929,929,829,9500(835<sup>II</sup>2)(848<sup>II</sup>a) . . 7,4,8,7,3,7,2,3,

checkmark 1 13.8+74 03

.4 .4+73 49 1 13.8+7.4 3 66 6.8 I 284,929,(835<sup>II</sup>)844,1019<sup>II</sup>2, 5,5,3,3,3

checkmark 1 14.9+76 12

.3 .3+75 58 1 13.9+76 12 58 7.1 I<sup>2</sup> 1019, 3

checkmark 1 13.8+57 42

11.0 21.0+57 28 1 13.8+57 42 260 6.1 II<sup>a</sup>a

284,929,(835<sup>III</sup>)848,(876<sup>II</sup>)914, 2,2,3,3,4,3

checkmark 1 15.0+78 12

No.5 .2 2+77 58 1 15.0+78 12 49 6.0 II<sup>a</sup>a

186,(929<sup>I</sup>)(829<sup>III</sup>)(843<sup>II</sup>a)(950<sup>II</sup>)(835<sup>II</sup>)(875<sup>I</sup>)(875<sup>I</sup>)(848<sup>II</sup>a)

2,10,2,3,2,3,3,2

checkmark 1 14.5+64 7

.5 .5+63 53 1 14.4+64 8 176 6.6 I 284,929,835,848,876, 5,7,8,4,3,

checkmark 1 14.4+60 25

.6 .6+60 11 1 14.4+60 25 209 7.3 I 929 914, 5,6,

checkmark 12. 22

checkmark 1 14.9+54 6

.2 .2+53 52 1 14.9+54 6 281 7.3 I 284, 5

13 23

checkmark 1 16.6+72 19

.3 .3+72.5 1 16.6+72 19 6.9 6.7 IIa 929,(835<sup>III</sup>)(914<sup>I</sup>)(1019<sup>I</sup>) 2,2,7,5

checkmark 1 17.8+77.9

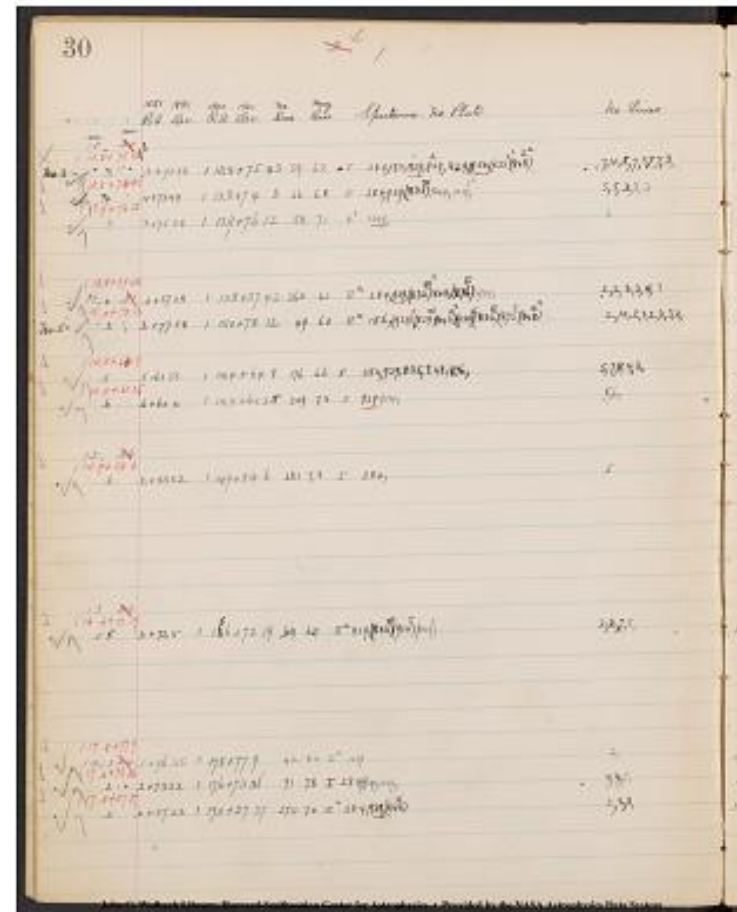
14.1+76 55 1 17.8+77 9 42 8.0 IIa 1019 2,

1 17.6+73 36

.2 .2+73 22 1 1.6+73 36 7.1 7.8 I 284,914,1019, 4,4,5,

checkmark 1 17.+57 37

.2 .2+57 23 1 17.0+57 37 274 7.0 II<sup>a</sup>a 284,929,(848<sup>II</sup>) 2,2,3,



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~~2~~ 1h

[6 columned table]

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remarks |

5, 10, 5, 5, 10, 8, 10 | ....SSSS | 5.8, 6.9 . 6.2, 6.8, 6.7, 6.6, 6.5 | 6.0, 6.2 . 6.6, 6.4, 6.9, 6.4, 6.1 ..... 5/6

10 . 10, 10, 10, ..SSS 6.5, 7.0 6.8 6.9} 6.9, 6.5 6.6, 7.3 6.5 6.6} 6.5, 6.5 .....

. . 7.1 7.2 .

10, 10, 10, 10, 10, 10 ~~26~~ ..SSSS 5.8, 6.4 6.4 6.6} 6.4, 6.4, 5.9 5.2, 6.9, 5.7 5.9} 5.2, 5.3, 6.1 19, 410, . 517 . 538

10, 2, 10, 10, 10, 10, ..SSS^2SSS 6.7, 5.8, 6.6 6.9} 6.3, 6.0, 6.8, 6.7, 6.5 | 6.8, 6.4 6.4 6.7} 6.1, 6.4, 6.8, 6.8, 6.3 34.....

..2.. S^2.SS^2S 5.7, 6.4, 6.6, 6.9, 6.8 5.3, 6.2, 5.8, 5.9, 5.9 .....

.. S 6.9, 6.9 6.6, 6.2 ..

~~27~~

. . 6.8 6.1 .

~~28~~

10, 10, 8. ..SS 6.9 6.9 7.2} 6.7, 6.7 7.1 6.5 6.8} 6.5, 6.6 431...

10, ~~29~~. 6.9 7.1 568

... S. 6.8, 6.8, 6.9 6.9, 6.7, 6.9 ...

10, 10, 10 ..S 6.6, 6.9, 6.9 6.0, 6.5, 5.7 18, 409,

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~~2~~ ~~1h~~

[9 columned table]

| 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No. DM. | Mag. DM. |  
Spectrum. | No. Plate. | No. Lines. |  
|----|----|----|----|----|----|

m 15. ~~m 30~~

1 18.4+70 27

No. 15 . 2 . | .2+70 | 13 | 1 18.4+70 | 27 | 102 | 6.1 | I |  
284,929,835,879,848,876,914,844, | ^[]6,8,8,6,9,7,8,8 . |

No. 10 ....86[[118.9+67 36]] | .8 67 | 22 | 1 18.8+07 | 30 | 123 | 5.2 |  
III^[[b]] | 284, 929, (835)^[[III]](848)^[[III]]876, (914)6[[III]^[[be]]]] | ^[]2, 2,  
3, 3, 3, 3, . |  
. 16. 0 ~~3~~ ~~1^[[1 18.8+57 43]]~~ | .0 +57 | 29 |  
1 18.8+57 | 43 | 280 | 8.5 | I^[[d^[[2]]]] | 1019, | 3, |

X . . 4^[[1 19.3+59 43]] | .4+59 | 29 | 1

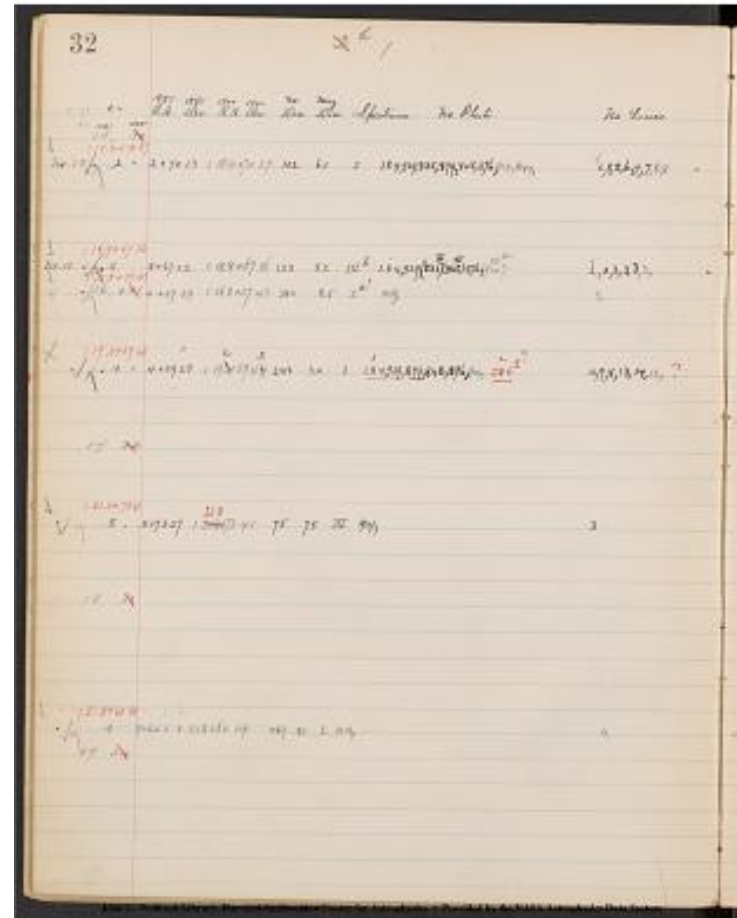
19. ~~3~~ ~~2+594~~ ~~4~~ ~~gh~~ | 3 | 248 | 3.0 | I | 284^[[1]], 929,879,848,876,914,284^[[2 I?]] | 10, 9, 8,  
13, 14, 12, ? |

17 ~~32~~

. ^[[1 21.0+7341]] .5 . . | .5+73 | 27 | 1  
~~20.8~~ ~~^[[21.0]]+73~~ | 41 | 75 | 7.5 | III | 914,  
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18 ~~33~~

. ^[[1 21.8+60 14]].9 | .9+60 | 0 | 1 21.8+600 | 14 | 487 | 8.1 | I | 1019, | 6,  
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1.9 ~~34~~



Project PHaEDRA - Williamina P. Fleming - Catalog of E. Stars #22  
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~~2~~<sup>h</sup> 1 33  
 [6 columned table]  
 K Line. | F Line. | Brightness | Borr. Brightness. | Mean. Residuals. | No.  
 Remarks |  
 |---|---|---|---|---|  
~~35~~<sup>m</sup>  
 | .<sup>^</sup>[ ] . 10, 10, 2, 8. . | .<sup>^</sup>[ ] SSSSSS |  
 6.3<sup>^</sup>[ ] . 6.0<sup>^</sup>[ ] . 6.6<sup>^</sup>[ ] . 7.0<sup>^</sup>[ ] . 6.5<sup>^</sup>[ ] . 6.7<sup>^</sup>[ ] . 6.3<sup>^</sup>[ ] . 6.4<sup>^</sup>[ ] | 6.2, 6.1, 6.1, 6.  
 0, 5.8, 6.1, 6.0, 5.8 || ..... |  
 | 10, 15, 10, 10, 10, 10 | ..SSSS  
 | 6.0<sup>^</sup>[5.4]] 6.5<sup>^</sup>[6.2]] 6.6<sup>^</sup>[6.4]] 6.7<sup>^</sup>[6.4]] 6.5<sup>^</sup>[6.2]] 6.2<sup>^</sup>[5.9]] } 5.4<sup>^</sup>[5.  
 1]] 6.4<sup>^</sup>[6.1]] 5.9<sup>^</sup>[5.4]] 5.8<sup>^</sup>[5.5]] 5.7<sup>^</sup>[5.4]] 5.7<sup>^</sup>[5.4]] ||  
 17, 407 .. 526, 537  
 | .~~36~~<sup>^</sup> | 7.0 | 6.3 | . |  
 | .25, 2, 2, 2? | SSSSSS? | 4.3, 4.7, 4.7, 4.9, 4.0, 4.1 | { 3.7, 4.3, 3.2, 3.7, 2.9, 3.3 |  
 ..... |  
~~37~~<sup>^</sup>  
 | 10 | S | 6.9<sup>^</sup>[6.7]] 6.8<sup>^</sup>[6.6]] | . |  
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 | S | 6.6 | 6.0 | . |  
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[[10 columned table]]

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

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$$20^{[[m]]} \overline{40^{[[m]]}}$$

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$$|1 \ 23.8 \ +69 \ 45|20 \ .5|+6931|1 \ 23.8|+69$$

45|102|6.1|II|[[284]],(929<sup>[[IIa]]</sup>)(835<sup>[[III]]</sup>)848,(

$$876^{[[I]]}(914^{[[IIa]]})(844^{[[IIa]]})1019^{[[IIa]]}|2,2,3,5,5,3,3,3|$$

[No. 13 1 23.9 +65 35|20 .8|+65 21|1 23.9|+65  
35|1 175|6 0|||284 ||underlined||020A||11|||underl

35|175|6.0||284,[[929<sup>^</sup>[1]]],[[(929<sup>^</sup>[2])<sup>^</sup>[alpha]]](825) 848 876 014 |7 6 7 7 0 6 7 |

$[2]^\alpha$  (835) 848,876,914,7,6,7,7,9,6,7,1  
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| 1 25.2 +69 31|21 .9|+69 17|1 25.2|+69  
30|103|7 0||281

30|103|7.0|284,929,835<sup>[[?]]</sup>  
[[848^[[?]]914 844 1019|4 6 3 3 6 6 7

[[/underlined]](848^[[[?]])914,844,1019|4,6,3,3,6,6,7,  
 [??^[[m]]][~~42^[[m]]~~][~~[[?]]~~]| | | | | | | | | |

27|134|8 2||1019[/u]

27|134|8.2|1019|3,  
|1 26.9 +78 39|22.8|+78 25|1 26.9|+78 39|49|8.5||929.1019|3.5|

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|23^|[m]]|[strike]43^|[m]]|[strike]

1 26.5 +59 56|23 .6|+59 42|1 20.5|+59

56|269|7.5||<sup>^</sup>[[?]]|[[1019]]|4|

30/209/7.5/1 [[[:]]][[undefined]] 10/19[[/undefined]]4/

|24^[[m]]|[[strikethrough]]44^[[m]]|[[strikethrough]]| | | | | | | | | |

1 27.0 +57 49|24 .1|+57 35|1 27.0|+57

49|320|6.5|III|914.|1019<sup>^</sup>[[III]]|3.2.

| 1 27.4 +68 26|24 .2|+68 12|127.4|+68

$$26|113|6.8||^a|[[a]]|[[\underline{\quad}]]929|[\underline{\quad}]|, (848^a|[[III]]) (914^a|[[III]]) (8$$
$$44^{[[IIIb]]}(1019^{[[II]])|2,3,3,3,3|$$
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55|26.0|6.0|III^[I]|284,848,(876^[III]))(91

844,1019<sup>[[III?]]</sup>2,

3,3,3,3,3|

| 1 27.8 +71 54|24 .4|+71 40|1 27.8|+71 54|87|7.8|||929,

$$((\underline{914^{[I?]}})(844^{[III]}) (1019^{[IIa]})|2,3,2,3,|$$

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X<sup>6</sup>/<sub>1</sub>

1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 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2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 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4271 4272 4273 4274 4275 4276 4277 4278 4279 4280 4281 4282 4283 4284 4285 4286 4287 4288 4289 4290 4291 4292 4293 4294 4295 4296 4297 4298 4299 4300 4301 4302 4303 4304 4305 4306 4307 4308 4309 4310 4311 4312 4313 4314 4315 4316 4317 4318 4319 4320 4321 4322 4323 4324 4325 4326 4

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Extracted Dec-02-2022 11:16:48

~~2~~ 1<sup>h</sup>

[6 columned table]

K Line|F Line|Brightness|Corr. Brightness|Mean. Residuals|No.  
Remarks|

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~~45~~ 45<sup>m</sup> | | | | |  
 10, 10, 10, 10, 10, 10, 10 |..SSSSs|6.5, 6.3 6.5<sup>h</sup>[[6.4]]  
 6.7, 6.8, 6.1, 6.5<sup>h</sup>[[6.0]] 6.3, 6.3, 5.9<sup>h</sup>[[5.8]]  
 5.9, 6.1, 5.7, 5.8, 5.3 |.420...542, 553<sup>h</sup>[[578]]  
 5.2<sup>h</sup>[[?]], 5.2...SSS|5.5, 6.6, 6.4, 6.7, 6.5, 6.6, 6.2|5.1, 6.3, 6.2, 5.9, 5.5, 5.7, 5.6|.....|  
~~46~~ 46<sup>m</sup> | | | | |  
 10, 10, 10, 10, 10, 10, 10 |..SSSSs|6.7, 6.7 6.7<sup>h</sup>[[6.6]] 6.9, 6.5, 6.6, 6.5|6.5, 6.7, 6.1<sup>h</sup>[[6.0]]  
 6.0, 6.1, 5.9, 6.2 |.....|  
~~47~~ 47<sup>m</sup> | | | | |  
 10, 10, 10, 10, 10, 10, 10 |..SSSSs|6.8, 6.4 |  
 2 |..7.3, 6.9 |7.9, 7.2 |..|  
~~48~~ 48<sup>m</sup> | | | | |  
 10, 10 |..7.1|6.4 |  
~~49~~ 49<sup>m</sup> |S. |7.0<sup>h</sup>[[6.8]] 7.1<sup>h</sup>[[6.9]]  
 6.2<sup>h</sup>[[6.0]] 6.4<sup>h</sup>[[6.2]] |..|  
 10, 10, 10, 10, 10, 10, 10 |..SSSSs|6.9 7.0<sup>h</sup>[[6.8]] 6.8<sup>h</sup>[[6.6]] 7.0<sup>h</sup>[[6.8]] 6.7|6.9  
 6.2<sup>h</sup>[[6.0]] 6.4<sup>h</sup>[[6.2]] 6.3<sup>h</sup>[[6.1]] 6.4 | 415..550 |  
 10, 10, 10<sup>h</sup>[[2]], 12, 10, 15 |..SSSSs|6.4<sup>h</sup>[[6.0]] 6.6<sup>h</sup>[[6.4]] 6.7<sup>h</sup>[[6.4]]  
 6.3<sup>h</sup>[[6.1]] 6.5<sup>h</sup>[[6.3]] 6.3<sup>h</sup>[[6.2]] 5.8<sup>h</sup>[[5.4]] 5.4<sup>h</sup>[[5.2]]  
 5.6<sup>h</sup>[[5.3]] 5.5<sup>h</sup>[[5.3]] 5.4<sup>h</sup>[[5.2]] 5.6<sup>h</sup>[[5.5]] ||2.519<sup>h</sup>[[.]] 551 |  
 10, 10, 10, 10, 10, 10, 10 |..SSs|6.9, 6.5 7.0[[6.8]] 6.6|7.1, 6.3 6.5<sup>h</sup>[[6.3]] 6.5 |...583|

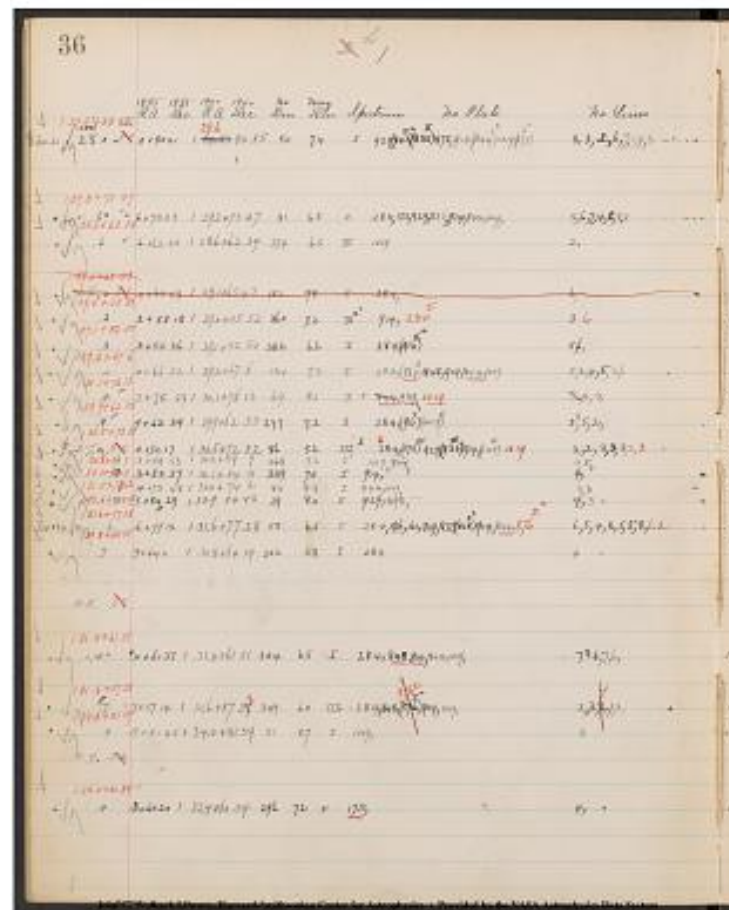
John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics  
 \* Provided by the NASA Astrophysics Data System

Handwritten astronomical catalog page 35 from Project PHaEDRA. The page contains a table with columns for K Line, F Line, Brightness, Corr. Brightness, Mean. Residuals, and No. Remarks. The table is filled with handwritten data, including star magnitudes and spectral types. The page is numbered 35 in the top right corner.

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			1855 R.A.		1855 Dec.		No. DM.		Mag DM.		1900 R.A.		1900 Dec.		Spectrum.		No. Plate.		No. Lines.	
--	--	--	-----------	--	-----------	--	---------	--	---------	--	-----------	--	-----------	--	-----------	--	------------	--	------------	--

[~~1~~ 29.6 +80 66^[[No. 21]]. ^25^[[m]] 0 [[striketthrough]] 50^[[m]]  
[[/striketthrough]] . 0 | +80 41 | 1 [[striketthrough]]24.5[[/striketthrough]]  
29.6 | +80 55 | 50 | 7.4 | | 929, (843)^[[II a]] 875, 914, (8440^[[I?]] 1019,  
(877)^[[II?]] | 8, 3, 2, 6, 7, 1, 9, 3, ... |  
| 1 29.2 +73 47 .. 6 .. | . 6 | +73 33 | 1 29.2 | +73 47 | 81 | 6.5 | | 284,  
173, 929, 835, 914, 844, 1019, | 5, 6, 7, 4, 8, 8, 8, ... |  
| 1 28.6 +62 34 .. 6 .. | . 6 | +62 20 | 1 28.6 | +62 34 | 274 | 6.5 | III | 1019  
2, |  
| . [[striketthrough]] 1 29.1 +65 43 26 .0 51 | .0 | +65 29 | 1 29.1 | +65 43 |  
182 | 7.8 | I | 284, | 6, .. |  
| 1 29.0 +55 32 .2 | .2 | +55 18 | 1 29.0 | +55 32 | 360 | 7.2 | III a ? |  
914, 284^[[III]] | 3 | 6 |  
| 1 29.1 +52 50 .3 | .3 | +52 36 | 1 29.1 | +52 50 | 382 | 6.6 | I | 284,  
(914)^[[II a]] | 5, 6, |  
| 1 29.2 +67 7 .0 | .0 | +66 52 | 1 29.2 | +67 0 | 134 | 7.3 | I | 284,  
[[underlined]] (929) [[/underlined]] ^[[II 848, 914, [[underlined]] 844,  
[[/underlined]] 1019 | 5, 2, 4, 5, 3, 6 .. |  
| 1 30.1 +76 13 .3 | .3 | +75 59 | 1 30.1 | +76 13 | 69 | 8.1 | I | |  
[[underlined]] [[/striketthrough]] 844, [[/striketthrough]]939,  
1019[[/underlined]] | [[striketthrough]]3[[/striketthrough]].. , 4, 3 |  
| 1 29.9 +62 53 .9 | .9 | +62 39 | 1 29.9 | +62 53 | 277 | 7.2 | I | 284,  
(914)^[[I?]] (1019)^[[II?]] | 5^[[?]] | 5, 2, .. |  
| 1 30.5 +72 31 27 .0 [[striketthrough]]52[[/striketthrough]] | .0 | +72 17 | 1  
30.5 | +72 32 | 86 | 5.2 | III b | 284, (173)^[[III]] 929, (835)^[[III]] 914,  
(844)^[[III]] 1019 | 2, 2, 3, 3, 3, 3 |  
| 1 30. [[striketthrough]]2, 3, 3[[/striketthrough]] 2 +59 7 .3 | .3 | +58 53 | 1  
30.2 | +59 7 | 268 | 7.2 | I ? | 1019, 914, | 4, 5, |  
| 1 30.1 +54 11 .3 | .3 | +53 57 | 1 30.1 | +54 11 | 339 | 7.0 | I | 914, | 4,  
|  
| 1 31.0 +74 2 .4 | .4 | +73 48 | 1 31.0 | +74 2 | 84 | 8.3 | I | 844, 1019, |  
3, 3, .. |  
| [[striketthrough]] [[/striketthrough]] . 1 33.6 +84 43 .5 | .5 | +84 29 | 1  
33.9 | 84 43 | 29 | 8.0 | I | 929, 898, .. | 4, 3, .. |  
| 1 31.6 +77 28 no 14 .. 6 | .6 | +77 14 | 1 31.6 | +77 28 | 58 | 6.5 | I |  
284, [[underlined]] 186, [[/underlined]] 161, 929, [[underlined]] 829  
[[/underlined]] (848)^[[I ?]] 914, [[underlined]] 844, [[/underlined]] 876^[[III  
a]] | 6, 5, 4, 8, 5, 6, 2, .. |  
| 1 3-8 +64 14 .7 | .7 | +64 0 | 1 30.8 | +64 14 | 202 | 6.8 | I | 284 | 4 . |  
28, [[striketthrough]] 53 [[/striketthrough]] | | | | | | | | | |  
| 1 31.4 +61 51 .4 .. | .4 | +61 37 | 1 31.4 | +61 51 | 304 | 6.5 | I | 284,  
[[underlined]] 848, 914, [[/underlined]] 844, 1019, | 7 ? 6, 7, 6, |  
| 1 31.6 +57 28 .7 | .7 | +57 14 | 1 31.6 | +57 2 [[striketthrough]] 7  
[[/striketthrough]] 8 | 349 | 6.0 | III | 284, 848, [[striketthrough]] (876)^[[IIa]]  
876 | I [[/striketthrough]] 914, 1019, | 2, 3, [[striketthrough]] 2 7  
[[/striketthrough]] , 1, 3, .. |  
| 134.0 +81 59 .9 | .9 | +81 45 | 1 34.0 | +81 59 | 51 | 8.7 | I | 1019, | 3 |  
29, [[striketthrough]] 54 [[/striketthrough]] | | | | | | | | | |  
| 1 32.4 +60 34 .4 | .4 | +60 20 | 1 32.4 | +60 34 | 296 | 7.2 | I | |  
[[underlined]] 173, [[/underlined]] | 4, .. |



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~~2~~ <sup>h</sup> 1

[6 Column Table]

K Line | F Line | Brightness | Corr. Brightness | Mean Residuals | No. Residuals |

10.....10~~m~~ 55~~SSS~~. Sss | 5.8, 6.8,  
6.5, 6.7, 6.2, 6.3, 6.8 | 6.7, 6.9, 6.8, 6.7, 6.5, 6.8, 7.0 | .471..... |  
10.....SSss | 6.1, 6.5, 6.1, 6.7, 6.2, 6.4, 6.0 | 6.2, 5.7, 6.4, 6.4, 6.1,  
6.0, 6.0 | ..... |  
10, . | 7.1<sup>h</sup>[6.9] | 6.5<sup>h</sup>[6.3] | . |  
[~~5.6~~] | 5.6 | 6.5 | 6.2 | . | [~~5.9~~] |  
10, . S | <sup>h</sup>[6.5]6.6}6.5 | <sup>h</sup>[5.6]5.4}5.9 | .533. |  
.. | S | 6.4, 6.6 | 5.9, 5.6 | .529 |  
10..... | .SS.. | 6.2, 6.9, 7.0, 6.5, 6.8, 6.6 | 5.9, 6.8, 6.1, 6.0, 6.0, 6.2 | |  
..... |  
[~~10~~] | [~~10~~] | [~~10~~] |  
[~~7.0~~] | [~~7.0~~] | [~~7.0~~] | 6.0, 7.0 |  
[~~7.1~~] | [~~6.3~~] | [~~6.3~~] | | [~~6.3~~] |  
[~~6.3~~] |  
10, 10, | S. | 6.6, 6.8, 6.8 | 6.1, 6.1, 6.2 | | ... |  
10, 10, 15<sup>h</sup>[2] 10, 10, 10, 10 [~~5.7~~] | ..S<sup>h</sup>[2]SSs,s | .  
6.5<sup>h</sup>[6.2]} 6.7<sup>h</sup>[6.5]} 6.5<sup>h</sup>[6.2]} 6.7<sup>h</sup>[6.4]} 6.2<sup>h</sup>[6.0]} 6.3<sup>h</sup>[6.0]}  
6.1<sup>h</sup>[5.8]} | 6.5<sup>h</sup>[6.2]} [~~5.8~~] 5.8<sup>h</sup>[5.6]} 6.4<sup>h</sup>[6.4]}  
6.3<sup>h</sup>[6.0]} [~~5.9~~] 5.9<sup>h</sup>[5.7]} 5.8<sup>h</sup>[5.5]} 5.4<sup>h</sup>[5.1]} | | 12.434  
.528 .584 |  
10, . | .. | 7.0, 6.9 | 6.3, 6.3 | | .. |  
.. | S | 6.7 | 5.8 | | .. |  
.. | .. | 7.0, 6.8 | 6.6, 6.8 | | .. |  
.. | S | 7.0, 6.8 | 8.4, 8.1 | | .. |  
.....<sup>h</sup>[2]...10 10 | .....SSS. | 5.9, 6.5, 6.9, 6.1, 6.7, 6.5, 6.3, 6.5 <sup>h</sup>[6.5] |  
6.2, 6.5, 6.7, 6.6, 6.4, 6.2, 6.4, 6.3, 5.2 | | .....525 |  
.. | . | 6.7 | 6.3 | | .. |  
102210. <sup>h</sup>[58] | .SSs. | 6.0, 6.8, 6.5, 6.6, 6.1 | 5.5, 5.7, 5.8, 5.6, 5.5 | |  
..... |  
10, 10, [~~10~~] 10<sup>h</sup>[10] [~~10~~] | 10 | .S  
[~~76.77.1~~] : [~~76.77.1~~] Ss | [~~76.77.1~~] 76.77.1  
[~~6.4~~] 6.9]} [~~6.5~~] 6.0]} [~~6.5~~] 6.0]}  
7.0<sup>h</sup>[6.6]} 7.2<sup>h</sup>[6.9]} | 6.5<sup>h</sup>[6.1]} 5.9<sup>h</sup>[5.7]} [~~6.5~~] 6.0]}  
5.4<sup>h</sup>[6.5]6.1<sup>h</sup>[4.4]} [~~6.2~~] 5.8]} 6.5<sup>h</sup>[6.2]} | |  
..[~~525~~] 525 [~~525~~] | .. |  
.. | s | 6.8 | 7.5 | | .. |  
.. <sup>h</sup>[59] | . | 7.0 | 5.6 | | .. |

Handwritten astronomical data table on page 37. The table is organized into 6 columns: K Line, F Line, Brightness, Corr. Brightness, Mean Residuals, and No. Residuals. The data is handwritten in ink, with some corrections and annotations. A small diagram is visible at the top of the page.

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~~3~~ 1h

[[10 columned table]]

| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |

132.9 +54 6|30.1|1|+53 52|132.9|+54 6|354|7.5||284,914,|5,5|  
133.3 +55 17| .4|.4|+55 3|133.3|+55 17|375|7.5||284|3|  
134.1 +66 25| .9|.9|+66 11|134.1|+66 25|145|7.4||173|3|  
133.9 +58 33| .9|.9|+58 19|133.8|+58  
33|273|7.2||284,848,914,(844^|I|a?)|1019,|5,5,5,6,7|  
133.8 + 53|57|  
31.0 ~~1~~|~~0~~ + 53|43|1|33.8 +  
53|57|362|7.8||284,914,|2,3|

|135.3 + 74|6|  
|.6|.6 + 73|52|1|3~~4~~|~~5~~|3+  
74|6|92|6.8|III|914,844,1019,(939^I)|  
125.0 + 67|32|  
|.7|.7 + 67|18|134.9 +  
67|32|149|6.1||284,173,848,~~876~~..., 844,  
1019, 914|  
|135.2 + 70|6|  
|.8|.8 + 69|52|1|35.2 + 70|7|114|5.2||284, 173, 929, 879, 876, 914, 844,  
1019, 848, |8,6,10,6,8,11,8,9 8|

|135.9 + 75|22|  
|32.1|~~2~~|.1 + 75|8|135.9 +  
75|22|72|7.0||284,914,(844^I|I|)1019,(939^I|I|)4,7,3,5,3|

|135.3 + 60|32|  
|.3|.3 + 60|18|1|35.3 + 60|32|308|6.5||914, 1019,|6,7,|  
~~8~~|8+69|52|1|36.2 +  
70|0|114|5.2||848,|8,||~~8~~  
|135.6 + 58|8|  
|.7|.7 + 57|54|1|35.6 + 58|8|370|6.8||284,848,(876^I|^2 914)1019,  
844^I|^2|5,6,4,7,8,6|  
135.9 + 60	3										
.9	.9 + 59	49	1	35.9 + 60	3	306	7.0		^a	173,	2
136.1 + 60	55										
3	3.1	~~3~~	.1 + 60	41	1	36.1 +					
60	55	312	6.3	I	^a	284,(173^I),(848^I	^d2)(914^I)(414^I)(914^I)(914^I2)				
844,(1019^I)	2,3,4,5,7,3,6										
1	39.2 + 83	50									
.2	.2 + 83	36	139.~~0~~	1 +							
83|50|38|8.7||898,|4,|

|136.6 + 60|3|  
|.6|.6 + 59|49|1|36.6 +  
60|3|307|6.0|I|^L|284,(173^I)(848^I)(876^I)(914^I)(844^I)(1019^I)|7,5,7,5,  
8,7,8|  
136.7 + 58	8												
.7	~~7~~	.7 + 57	54	1	36.7 + 58	8	370	6.8		914,(844^I	^2)	7,5,	
136.7 + 59	8												
.7	.7 + 58	54	1	36.7 + 59	8	282	6.5		I	^a	^2	1019,	3
138.8 + 80	24												



|no. 7|34. 1|~~4~~. 1 + 80|10|1|38.8+  
 80|24|55|7.5||173,929,829,(843<sup>I</sup>^2)835,875,879,(848<sup>I</sup>^2)|4,8,4,5,4,5,4  
 ,5|  
137.5 + 69	0	. 1 + 68	46	1	37.5+69	0	125	7.3	III	1019,	2				
1	37.3	4	55	23	4 + 55	9	1	37.3 + 55	23	39	1	7.1		284,(914<sup>II</sup>a)	4,3,
1	37.1 + 59	56	. 1 + 59	42	1	37.1 + 59	50	309	8.0		1019				
1	37.3 + 52	23	.5	.5 + 52	9	1	37.3 + 52	23	420	7.0		284,914,			
1	37.4 + 50	12													
6	.6 + 49	58	1	37.~~4~~ 5~~5~~ +											
.5	0	11	444	4.1	<sup>L</sup>	284	7								
137.7 + 5.7	2														
8	.8 + 56	48	1	37.7 +											
57	2	330	6.4		284,848,876,914,(844<sup>I</sup>d^2)1019,	6,6,2,65,9									
139.7 + 80	53														
9	.9 + 80	39	1	39.4 +											
80	53	57	7.5		173,929,(835<sup>III</sup>)914,(844<sup>I</sup>)1019,939,898	4,8,3,6,6,7,3,6									
137.8 + 54	23														
9	.9 + 54	9	1	37.8 + 54	23	368	7.5	III	914	3					

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~~3~~ <sup>h</sup> 1

[7 columned table]

K Line. | F.ine. | Brightness. | Corr. Brightness. | Mean. | Residuals. |  
No. Remarks. |

--- | --- | --- | --- | --- | --- |  
10 ~~5~~ <sup>m</sup> | . S | 6.8, 6.7 | 6.1, 5.8 | |  
| . | 6.5 | 5.8 | | . |  
10. | S | . | . | . | . |  
10. 10. | . S S S S | 6.4, 6.9, 6.4, 6.8, 6.7 | 5.8, 5.7, 5.6, 5.7, 6.0 | |  
... 549. |  
10, 10 ~~6~~ | . S | 6.8, 6.9 | 6.1, 6.0 | | .  
| 10, 10, 10. | S s s | <sup>6.5</sup> 6.8 <sup>6.8</sup> 7.0 <sup>6.6</sup> 6.9 6.8 | <sup>6.4</sup>  
6.6 <sup>6.4</sup> 6.6 <sup>6.6</sup> 6.9 7.0 | | . . . .  
| . . . ~~2~~ | . . . ~~2~~ | . . . ~~2~~ | . . . ~~2~~ | . . . ~~2~~ | . . . ~~2~~ | . . . ~~2~~ |  
S S ~~S~~ ~~S~~ ~~S~~ ~~S~~ ~~S~~ | 5.4, 6.8, 6.3, ~~6.0~~ | ~~6.0~~ |  
~~6.0~~, 5.8 5.6 | 5.1, 5.6, 5.4, ~~5.2~~ | ~~5.2~~ |  
5.2, ~~5.2~~ | ~~5.2~~ | ~~5.2~~ | ~~5.2~~ | ~~5.2~~ | ~~5.2~~ |  
| . . . ~~2~~ | . . . ~~2~~ | . . . ~~2~~ | . . . ~~2~~ | . . . ~~2~~ | . . . ~~2~~ |  
2 . . . . . S S S S S S | 6.3, 5.8, 6.7, 6.1, 5.6, 5.4, 5.8, 5.1 5.8 |  
6.2, 4.8, 6.8, 5.1, 5.0, 5.1, 5.2, 4.9 4.3 | | . . . . .  
10, 10, 10, 10, 10, | ~~7~~ | . S s s s | 6.9,  
6.5 <sup>6.7</sup> 6.9 | 6.6, 6.8 | 7.1, 6.5 <sup>6.4</sup> 6.6 | 6.7, 7.1 | | . . . . .  
2 | S s | 6.7, 6.4 | 6.0, 5.8 | | . . .  
| ~~5.8~~ | S | 5.8 | 5.1 | | . ~~5.8~~ |  
... 2.5 | . S s s s | 6.4, 6.8, 7.0, 6.2 6.3 6.5 | 5.8, 5.6, 5.9, - 5.6 5.5 | |  
| . . . |  
| . . | 6.9 | 5.4 | | | 41 |  
10 . . . 10. | ~~8~~ | . . S S S S s ? | 6.1,  
6.9, 6.7, 6.5, 6.5, 6.2 | 5.6, 5.5, 5.6 . 5.8, 5.6, 5.6 | | 11 . . . . 554. |  
| . . | 6.9 | 8.1 | | . |  
| . . . . . S S S | 5.8, 6.8, 6.4, 6.5, 5.9, 6.4, 6.0 | 5.2, 5.3, 5.2, 5.4,  
5.1, 5.3, 5.3 | | 9 . . . . .  
| ~~2~~ | S S | 6.2, 6.5 | 5.4, 5.4 | | . . ~~2~~ |  
2 | s | 7.0 | 6.3 | | | 574 |  
... 10, 10. 10, 10 ~~9~~ | . . . . S S . S |  
6.9, 5.9, 6.7, 6.7, 6.9, 6.6, 7.2, 6.8 | 6.6, 6.7, 5.7, 6.7, 7.1, 6.9, 5.9, 6.8 |  
| 10 | . | <sup>6.9</sup> 7.1 | <sup>6.5</sup> 6.7 | | . |  
10 | S | 6.8, 6.7 | 6.1, 5.8 | | . 532 |  
| . | 7.0 | 6.3 | | . |  
10, 10 | S | 6.7, 6.7 | 5.9, 5.7 | | . . |  
| . | 5.0 | 4.9 | | . 10 |  
| . 10 . . . S S S S | 6.3, ~~6.8~~, ~~7.0~~, 6.4,  
6.5, 6.4 | 5.7, 5.6, 5.9, 5.6, 5.4, 5.7 | | . . . . .  
10, 2., 10. 5, 2 . . S S S S s s | 7.2, 6.2, <sup>6.9</sup> 7.2 | 6.4, 6.5, 6.5,  
6.5, 6.5 | 7.0, 7.1, <sup>7.2</sup> 7.5 | 6.9, 6.7, 7.1, 7.3, 7.3 | | . . . . .  
| 10 | S | <sup>6.8</sup> 7.0 | <sup>5.9</sup> 6.1 | | . |

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~~3~~<sup>h</sup> 1  
 10 columned table  
 R.A 1855|Dec. 1855|R.A 1900|Dec. 1900|No. DM.|Mag.  
 DM.|Spectrum|No. Plate|No. Lines  
 -----  
 1 37.9 +52 42|~~10~~<sup>m</sup>|~~35~~<sup>a</sup>|.1|+52  
 28|1 37.9|+52 42|424|8.5||914,| 4,|  
 1 38.2 +56 36|35 .3|+52 22|1 38.2|+56 36|334|6.5||~~284~~. 848, 876,  
 914, 844, 1019| 5, 7, 5, 7, 5, 8|  
 36|~~11~~|~~12~~<sup>a</sup>|~~37~~<sup>a</sup>|.0|+62 55|1  
 1 40.1 +63 9|~~12~~<sup>m</sup>|~~37~~<sup>a</sup>|.0|+62 55|1  
 40.1|+63 9 |305|8.0||1019,| 3 •  
 1 40.4 +63 22|37 .3|+63 8|1 40.4|+63 22|238|6.1||~~a~~• 284, 173,  
 (914<sup>h</sup>?) (1019<sup>h</sup>?) 844<sup>h</sup> | • 2, 2, 3, 3, 3|  
 38|~~13~~|~~14~~|~~15~~|~~16~~|~~17~~|~~18~~|~~19~~|~~20~~|~~21~~|~~22~~|~~23~~|~~24~~|~~25~~|~~26~~|~~27~~|~~28~~|~~29~~|~~30~~|~~31~~|~~32~~|~~33~~|~~34~~|~~35~~|~~36~~|~~37~~|~~38~~|~~39~~|~~40~~|~~41~~|~~42~~|~~43~~|~~44~~|~~45~~|~~46~~|~~47~~|~~48~~|~~49~~|~~50~~|~~51~~|~~52~~|~~53~~|~~54~~|~~55~~|~~56~~|~~57~~|~~58~~|~~59~~|~~60~~|~~61~~|~~62~~|~~63~~|~~64~~|~~65~~|~~66~~|~~67~~|~~68~~|~~69~~|~~70~~|~~71~~|~~72~~|~~73~~|~~74~~|~~75~~|~~76~~|~~77~~|~~78~~|~~79~~|~~80~~|~~81~~|~~82~~|~~83~~|~~84~~|~~85~~|~~86~~|~~87~~|~~88~~|~~89~~|~~90~~|~~91~~|~~92~~|~~93~~|~~94~~|~~95~~|~~96~~|~~97~~|~~98~~|~~99~~|~~100~~|~~101~~|~~102~~|~~103~~|~~104~~|~~105~~|~~106~~|~~107~~|~~108~~|~~109~~|~~110~~|~~111~~|~~112~~|~~113~~|~~114~~|~~115~~|~~116~~|~~117~~|~~118~~|~~119~~|~~120~~|~~121~~|~~122~~|~~123~~|~~124~~|~~125~~|~~126~~|~~127~~|~~128~~|~~129~~|~~130~~|~~131~~|~~132~~|~~133~~|~~134~~|~~135~~|~~136~~|~~137~~|~~138~~|~~139~~|~~140~~|~~141~~|~~142~~|~~143~~|~~144~~|~~145~~|~~146~~|~~147~~|~~148~~|~~149~~|~~150~~|~~151~~|~~152~~|~~153~~|~~154~~|~~155~~|~~156~~|~~157~~|~~158~~|~~159~~|~~160~~|~~161~~|~~162~~|~~163~~|~~164~~|~~165~~|~~166~~|~~167~~|~~168~~|~~169~~|~~170~~|~~171~~|~~172~~|~~173~~|~~174~~|~~175~~|~~176~~|~~177~~|~~178~~|~~179~~|~~180~~|~~181~~|~~182~~|~~183~~|~~184~~|~~185~~|~~186~~|~~187~~|~~188~~|~~189~~|~~190~~|~~191~~|~~192~~|~~193~~|~~194~~|~~195~~|~~196~~|~~197~~|~~198~~|~~199~~|~~200~~|~~201~~|~~202~~|~~203~~|~~204~~|~~205~~|~~206~~|~~207~~|~~208~~|~~209~~|~~210~~|~~211~~|~~212~~|~~213~~|~~214~~|~~215~~|~~216~~|~~217~~|~~218~~|~~219~~|~~220~~|~~221~~|~~222~~|~~223~~|~~224~~|~~225~~|~~226~~|~~227~~|~~228~~|~~229~~|~~230~~|~~231~~|~~232~~|~~233~~|~~234~~|~~235~~|~~236~~|~~237~~|~~238~~|~~239~~|~~240~~|~~241~~|~~242~~|~~243~~|~~244~~|~~245~~|~~246~~|~~247~~|~~248~~|~~249~~|~~250~~|~~251~~|~~252~~|~~253~~|~~254~~|~~255~~|~~256~~|~~257~~|~~258~~|~~259~~|~~260~~|~~261~~|~~262~~|~~263~~|~~264~~|~~265~~|~~266~~|~~267~~|~~268~~|~~269~~|~~270~~|~~271~~|~~272~~|~~273~~|~~274~~|~~275~~|~~276~~|~~277~~|~~278~~|~~279~~|~~280~~|~~281~~|~~282~~|~~283~~|~~284~~|~~285~~|~~286~~|~~287~~|~~288~~|~~289~~|~~290~~|~~291~~|~~292~~|~~293~~|~~294~~|~~295~~|~~296~~|~~297~~|~~298~~|~~299~~|~~300~~|~~301~~|~~302~~|~~303~~|~~304~~|~~305~~|~~306~~|~~307~~|~~308~~|~~309~~|~~310~~|~~311~~|~~312~~|~~313~~|~~314~~|~~315~~|~~316~~|~~317~~|~~318~~|~~319~~|~~320~~|~~321~~|~~322~~|~~323~~|~~324~~|~~325~~|~~326~~|~~327~~|~~328~~|~~329~~|~~330~~|~~331~~|~~332~~|~~333~~|~~334~~|~~335~~|~~336~~|~~337~~|~~338~~|~~339~~|~~340~~|~~341~~|~~342~~|~~343~~|~~344~~|~~345~~|~~346~~|~~347~~|~~348~~|~~349~~|~~350~~|~~351~~|~~352~~|~~353~~|~~354~~|~~355~~|~~356~~|~~357~~|~~358~~|~~359~~|~~360~~|~~361~~|~~362~~|~~363~~|~~364~~|~~365~~|~~366~~|~~367~~|~~368~~|~~369~~|~~370~~|~~371~~|~~372~~|~~373~~|~~374~~|~~375~~|~~376~~|~~377~~|~~378~~|~~379~~|~~380~~|~~381~~|~~382~~|~~383~~|~~384~~|~~385~~|~~386~~|~~387~~|~~388~~|~~389~~|~~390~~|~~391~~|~~392~~|~~393~~|~~394~~|~~395~~|~~396~~|~~397~~|~~398~~|~~399~~|~~400~~|~~401~~|~~402~~|~~403~~|~~404~~|~~405~~|~~406~~|~~407~~|~~408~~|~~409~~|~~410~~|~~411~~|~~412~~|~~413~~|~~414~~|~~415~~|~~416~~|~~417~~|~~418~~|~~419~~|~~420~~|~~421~~|~~422~~|~~423~~|~~424~~|~~425~~|~~426~~|~~427~~|~~428~~|~~429~~|~~430~~|~~431~~|~~432~~|~~433~~|~~434~~|~~435~~|~~436~~|~~437~~|~~438~~|~~439~~|~~440~~|~~441~~|~~442~~|~~443~~|~~444~~|~~445~~|~~446~~|~~447~~|~~448~~|~~449~~|~~450~~|~~451~~|~~452~~|~~453~~|~~454~~|~~455~~|~~456~~|~~457~~|~~458~~|~~459~~|~~460~~|~~461~~|~~462~~|~~463~~|~~464~~|~~465~~|~~466~~|~~467~~|~~468~~|~~469~~|~~470~~|~~471~~|~~472~~|~~473~~|~~474~~|~~475~~|~~476~~|~~477~~|~~478~~|~~479~~|~~480~~|~~481~~|~~482~~|~~483~~|~~484~~|~~485~~|~~486~~|~~487~~|~~488~~|~~489~~|~~490~~|~~491~~|~~492~~|~~493~~|~~494~~|~~495~~|~~496~~|~~497~~|~~498~~|~~499~~|~~500~~|~~501~~|~~502~~|~~503~~|~~504~~|~~505~~|~~506~~|~~507~~|~~508~~|~~509~~|~~510~~|~~511~~|~~512~~|~~513~~|~~514~~|~~515~~|~~516~~|~~517~~|~~518~~|~~519~~|~~520~~|~~521~~|~~522~~|~~523~~|~~524~~|~~525~~|~~526~~|~~527~~|~~528~~|~~529~~|~~530~~|~~531~~|~~532~~|~~533~~|~~534~~|~~535~~|~~536~~|~~537~~|~~538~~|~~539~~|~~540~~|~~541~~|~~542~~|~~543~~|~~544~~|~~545~~|~~546~~|~~547~~|~~548~~|~~549~~|~~550~~|~~551~~|~~552~~|~~553~~|~~554~~|~~555~~|~~556~~|~~557~~|~~558~~|~~559~~|~~560~~|~~561~~|~~562~~|~~563~~|~~564~~|~~565~~|~~566~~|~~567~~|~~568~~|~~569~~|~~570~~|~~571~~|~~572~~|~~573~~|~~574~~|~~575~~|~~576~~|~~577~~|~~578~~|~~579~~|~~580~~|~~581~~|~~582~~|~~583~~|~~584~~|~~585~~|~~586~~|~~587~~|~~588~~|~~589~~|~~590~~|~~591~~|~~592~~|~~593~~|~~594~~|~~595~~|~~596~~|~~597~~|~~598~~|~~599~~|~~600~~|~~601~~|~~602~~|~~603~~|~~604~~|~~605~~|~~606~~|~~607~~|~~608~~|~~609~~|~~610~~|~~611~~|~~612~~|~~613~~|~~614~~|~~615~~|~~616~~|~~617~~|~~618~~|~~619~~|~~620~~|~~621~~|~~622~~|~~623~~|~~624~~|~~625~~|~~626~~|~~627~~|~~628~~|~~629~~|~~630~~|~~631~~|~~632~~|~~633~~|~~634~~|~~635~~|~~636~~|~~637~~|~~638~~|~~639~~|~~640~~|~~641~~|~~642~~|~~643~~|~~644~~|~~645~~|~~646~~|~~647~~|~~648~~|~~649~~|~~650~~|~~651~~|~~652~~|~~653~~|~~654~~|~~655~~|~~656~~|~~657~~|~~658~~|~~659~~|~~660~~|~~661~~|~~662~~|~~663~~|~~664~~|~~665~~|~~666~~|~~667~~|~~668~~|~~669~~|~~670~~|~~671~~|~~672~~|~~673~~|~~674~~|~~675~~|~~676~~|~~677~~|~~678~~|~~679~~|~~680~~|~~681~~|~~682~~|~~683~~|~~684~~|~~685~~|~~686~~|~~687~~|~~688~~|~~689~~|~~690~~|~~691~~|~~692~~|~~693~~|~~694~~|~~695~~|~~696~~|~~697~~|~~698~~|~~699~~|~~700~~|~~701~~|~~702~~|~~703~~|~~704~~|~~705~~|~~706~~|~~707~~|~~708~~|~~709~~|~~710~~|~~711~~|~~712~~|~~713~~|~~714~~|~~715~~|~~716~~|~~717~~|~~718~~|~~719~~|~~720~~|~~721~~|~~722~~|~~723~~|~~724~~|~~725~~|~~726~~|~~727~~|~~728~~|~~729~~|~~730~~|~~731~~|~~732~~|~~733~~|~~734~~|~~735~~|~~736~~|~~737~~|~~738~~|~~739~~|~~740~~|~~741~~|~~742~~|~~743~~|~~744~~|~~745~~|~~746~~|~~747~~|~~748~~|~~749~~|~~750~~|~~751~~|~~752~~|~~753~~|~~754~~|~~755~~|~~756~~|~~757~~|~~758~~|~~759~~|~~760~~|~~761~~|~~762~~|~~763~~|~~764~~|~~765~~|~~766~~|~~767~~|~~768~~|~~769~~|~~770~~|~~771~~|~~772~~|~~773~~|~~774~~|~~775~~|~~776~~|~~777~~|~~778~~|~~779~~|~~780~~|~~781~~|~~782~~|~~783~~|~~784~~|~~785~~|~~786~~|~~787~~|~~788~~|~~789~~|~~790~~|~~791~~|~~792~~|~~793~~|~~794~~|~~795~~|~~796~~|~~797~~|~~798~~|~~799~~|~~800~~|~~801~~|~~802~~|~~803~~|~~804~~|~~805~~|~~806~~|~~807~~|~~808~~|~~809~~|~~810~~|~~811~~|~~812~~|~~813~~|~~814~~|~~815~~|~~816~~|~~817~~|~~818~~|~~819~~|~~820~~|~~821~~|~~822~~|~~823~~|~~824~~|~~825~~|~~826~~|~~827~~|~~828~~|~~829~~|~~830~~|~~831~~|~~832~~|~~833~~|~~834~~|~~835~~|~~836~~|~~837~~|~~838~~|~~839~~|~~840~~|~~841~~|~~842~~|~~843~~|~~844~~|~~845~~|~~846~~|~~847~~|~~848~~|~~849~~|~~850~~|~~851~~|~~852~~|~~853~~|~~854~~|~~855~~|~~856~~|~~857~~|~~858~~|~~859~~|~~860~~|~~861~~|~~862~~|~~863~~|~~864~~|~~865~~|~~866~~|~~867~~|~~868~~|~~869~~|~~870~~|~~871~~|~~872~~|~~873~~|~~874~~|~~875~~|~~876~~|~~877~~|~~878~~|~~879~~|~~880~~|~~881~~|~~882~~|~~883~~|~~884~~|~~885~~|~~886~~|~~887~~|~~888~~|~~889~~|~~890~~|~~891~~|~~892~~|~~893~~|~~894~~|~~895~~|~~896~~|~~897~~|~~898~~|~~899~~|~~900~~|~~901~~|~~902~~|~~903~~|~~904~~|~~905~~|~~906~~|~~907~~|~~908~~|~~909~~|~~910~~|~~911~~|~~912~~|~~913~~|~~914~~|~~915~~|~~916~~|~~917~~|~~918~~|~~919~~|~~920~~|~~921~~|~~922~~|~~923~~|~~924~~|~~925~~|~~926~~|~~927~~|~~928~~|~~929~~|~~930~~|~~931~~|~~932~~|~~933~~|~~934~~|~~935~~|~~936~~|~~937~~|~~938~~|~~939~~|~~940~~|~~941~~|~~942~~|~~943~~|~~944~~|~~945~~|~~946~~|~~947~~|~~948~~|~~949~~|~~950~~|~~951~~|~~952~~|~~953~~|~~954~~|~~955~~|~~956~~|~~957~~|~~958~~|~~959~~|~~960~~|~~961~~|~~962~~|~~963~~|~~964~~|~~965~~|~~966~~|~~967~~|~~968~~|~~969~~|~~970~~|~~971~~|~~972~~|~~973~~|~~974~~|~~975~~|~~976~~|~~977~~|~~978~~|~~979~~|~~980~~|~~981~~|~~982~~|~~983~~|~~984~~|~~985~~|~~986~~|~~987~~|~~988~~|~~989~~|~~990~~|~~991~~|~~992~~|~~993~~|~~994~~|~~995~~|~~996~~|~~997~~|~~998~~|~~999~~|~~1000~~|~~1001~~|~~1002~~|~~1003~~|~~1004~~|~~1005~~|~~1006~~|~~1007~~|~~1008~~|~~1009~~|~~1010~~|~~1011~~|~~1012~~|~~1013~~|~~1014~~|~~1015~~|~~1016~~|~~1017~~|~~1018~~|~~1019~~|~~1020~~|~~1021~~|~~1022~~|~~1023~~|~~1024~~|~~1025~~|~~1026~~|~~1027~~|~~1028~~|~~1029~~|~~1030~~|~~1031~~|~~1032~~|~~1033~~|~~1034~~|~~1035~~|~~1036~~|~~1037~~|~~1038~~|~~1039~~|~~1040~~|~~1041~~|~~1042~~|~~1043~~|~~1044~~|~~1045~~|~~1046~~|~~1047~~|~~1048~~|~~1049~~|~~1050~~|~~1051~~|~~1052~~|~~1053~~|~~1054~~|~~1055~~|~~1056~~|~~1057~~|~~1058~~|~~1059~~|~~1060~~|~~1061~~|~~1062~~|~~1063~~|~~1064~~|~~1065~~|~~1066~~|~~1067~~|~~1068~~|~~1069~~|~~1070~~|~~1071~~|~~1072~~|~~1073~~|~~1074~~|~~1075~~|~~1076~~|~~1077~~|~~1078~~|~~1079~~|~~1080~~|~~1081~~|~~1082~~|~~1083~~|~~1084~~|~~1085~~|~~1086~~|~~1087~~|~~1088~~|~~1089~~|~~1090~~|~~1091~~|~~1092~~|~~1093~~|~~1094~~|~~1095~~|~~1096~~|~~1097~~|~~1098~~|~~1099~~|~~1100~~|~~1101~~|~~1102~~|~~1103~~|~~1104~~|~~1105~~|~~1106~~|~~1107~~|~~1108~~|~~1109~~|~~1110~~|~~1111~~|~~1112~~|~~1113~~|~~1114~~|~~1115~~|~~1116~~|~~1117~~|~~1118~~|~~1119~~|~~1120~~|~~1121~~|~~1122~~|~~1123~~|~~1124~~|~~1125~~|~~1126~~|~~1127~~|~~1128~~|~~1129~~|~~1130~~|~~1131~~|~~1132~~|~~1133~~|~~1134~~|~~1135~~|~~1136~~|~~1137~~|~~1138~~|~~1139~~|~~1140~~|~~1141~~|~~1142~~|~~1143~~|~~1144~~|~~1145~~|~~1146~~|~~1147~~|~~1148~~|~~1149~~|~~1150~~|~~1151~~|~~1152~~|~~1153~~|~~1154~~|~~1155~~|~~1156~~|~~1157~~|~~1158~~|~~1159~~|~~1160~~|~~1161~~|~~1162~~|~~1163~~|~~1164~~|~~1165~~|~~1166~~|~~1167~~|~~1168~~|~~1169~~|~~1170~~|~~1171~~|~~1172~~|~~1173~~|~~1174~~|~~1175~~|~~1176~~|~~1177~~|~~1178~~|~~1179~~|~~1180~~|~~1181~~|~~1182~~|~~1183~~|~~1184~~|~~1185~~|~~1186~~|~~1187~~|~~1188~~|~~1189~~|~~1190~~|~~1191~~|~~1192~~|~~1193~~|~~1194~~|~~1195~~|~~1196~~|~~1197~~|~~1198~~|~~1199~~|~~1200~~|~~1201~~|~~1202~~|~~1203~~|~~1204~~|~~1205~~|~~1206~~|~~1207~~|~~1208~~|~~1209~~|~~1210~~|~~1211~~|~~1212~~|~~1213~~|~~1214~~|~~1215~~|~~1216~~|~~1217~~|~~1218~~|~~1219~~|~~1220~~|~~1221~~|~~1222~~|~~1223~~|~~1224~~|~~1225~~|~~1226~~|~~1227~~|~~1228~~|~~1229~~|~~1230~~|~~1231~~|~~1232~~|~~1233~~|~~1234~~|~~1235~~|~~1236~~|~~1237~~|~~1238~~|~~1239~~|~~1240~~|~~1241~~|~~1242~~|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41

3~~[[strikethrough]]~~ ^~~[[h]]~~/

[[7 columned table]]

| K Line. | F Line. | Brightness. | Corr. Brightness. | Mean. | Residuals. |  
No. Remarks. |

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

m~~[[strikethrough]]~~|||||15~~[[strikethrough]]~~|s|7.0|6.0|||

5.2 |s.s.s |6.0,6.7,6.3,6.5|5.4,5.4,5.5,5.4,,5.7 | | |..... |

|6~~[[strikethrough]]~~ | | | | | ||7~~[[strikethrough]]~~ | | 7.1 | | | |

10,10,10,10,10 |8.8ss | 5.9,6.9,6.2,6.3,6.6 | | | | |

. | s | 7.0 | 6.3 | | | . |

. | . | 6.8 7.1 | 7.7 8.0 | | | . |

. | . | 6.8 | 6.1 | | | . |

. | s | 7.0 | 6.6 | | | . |

10,10,10,10 | \*.ss | 6.4 6.6 6.7 6.6 6.6 | | 6.4 6.6 6.4 6.7 6.9 | |.... |

10 |9~~[[strikethrough]]~~ | 6.9 7.2 | 7.9 8.2 | | | . |

10 | s | 6.9 7.2 | 7.7 8.0 | | | . |

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Provided by NASA Astrophysics Data System

Handwritten astronomical catalog page 41 from Project PHaEDRA. The page contains a table with columns for K Line, F Line, Brightness, Corr. Brightness, Mean, and Residuals. The handwriting is in cursive and includes various numerical values and some corrections. The page is numbered 41 in the top right corner.

Project PHaEDRA - Williamina P. Fleming - Catalog of E. Stars #22  
 Transcribed and Reviewed by Digital Volunteers  
 Extracted Dec-02-2022 11:16:48

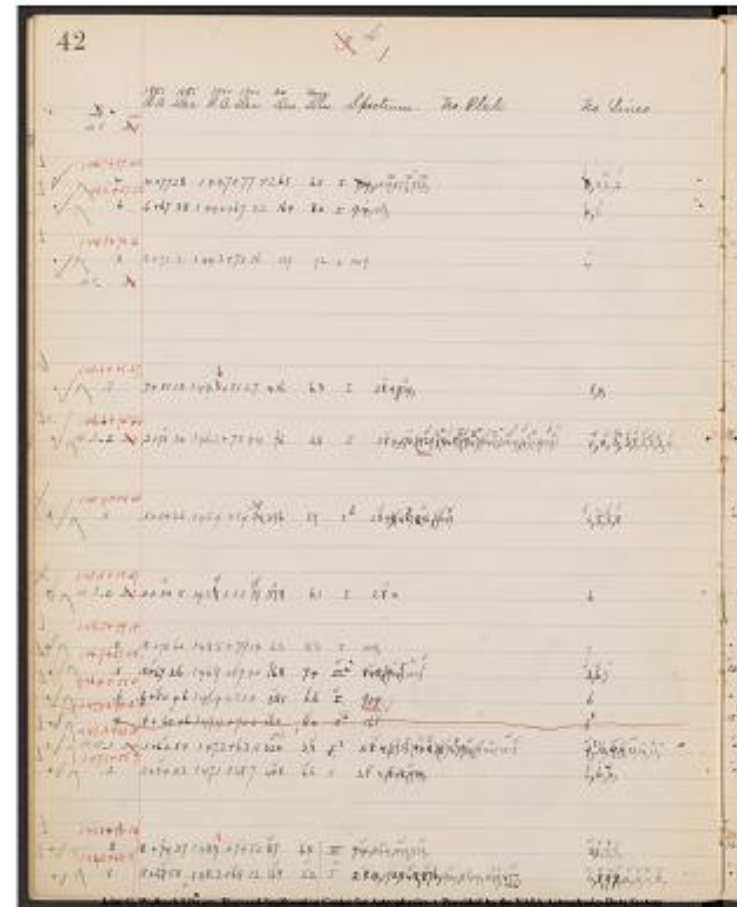
~~3~~ 1h

[[10 Column Table]]

| 1855 RA. | 1855 Dec. | 1900 RA. | 1900 Dec. | No DM | Mag. DM |  
Spectrum | No. Plate. | No. Lines |

40 ~~20~~ ^ [[m ~~m~~]] m  
4 ^ [[144.7+7742]] | 4+77 | 28 | 144.7+77 | 42 | 65 | 6.5 | |  
~~914~~ 1019 ^ [[III]], 877^ [[III]], 939^ [[III]], |  
~~8~~ 3,2,2 |  
6^ [[144.0 + 6752]] | .6+67 | 38 | 144.0+67 | 53 164 | 8.0 | I | 914,1019,  
| 4,3 |  
.8^ [[144.3+7016]] | .8+70 | 2 | 144.3+70 | 16 | 137 72 | I | 1019 | | 4 |  
41. ~~21~~ | | | | | | | | | |  
7^ [[144.6 + 51.27]] | .7+51 | 13 | 144.6 ~~5~~  
~~+51~~ 27 | 416 | 6.3 | I 284,914, | 5,4  
146.2 + 7544  
42.2 .2 + 75 30 146.2 + 75 44 76 6.8 I  
284,173,(929)(848)(914)(844,)1019,(877)(939) 4,4,3,7,5,5,2,4  
145.4 + 54 40  
.5 .5 + 54 26 145.4 + 54 39 396 5.7 I 284,(848)876,(914) 6,5,5,8  
145.8 + 50 19  
43.0 .0 + 50 5 145.7 + 50 18 379 6.1 I 284 6  
148.5 + 79 14  
.8 8 + 78 60 148.5 79 14 62 8.3 I 1019, 7  
146.9 + 67 40 .5 .5 + 67 26 146.9 + 67 40 168 7.4 III 848,(914)1019  
3,6,7  
146.4 + 51 0  
.6 .6 + 50 46 140.4 + 510 381 6.6 I 914 6  
[[~~strikethrough:~~]]  
[[~~strikethrough:~~]]  
147.3 + 63 11  
44.1 [[~~strikethrough:~~]] .1 + 62 57 147.2 + 63 11 320 3.3 I  
284,(173)(848)(876)914,(844)1019 9,10,9,9,11,14,11  
147.1 + 557 .2 .2 + 54 53 147.1 + 55 7 408 6.6 I 284,848,914, 6,6,6  
148.8 + 74 50  
.8 8 + 74 37 1488 + 74 50 87 6.5 III 914,844,1019,939 3,1,3,3  
148.2 + 68 11  
.8 .8 + 6758 148.2 + 68 12 169 5.2 I  
284,173,848,876,914,844,1019,877, 6,8,9,8,10,11,11,8

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Extracted Dec-02-2022 11:16:48

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~~3~~ 1h

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No.  
Remarks |

| m 25 ~~||||~~

| .10,10,10, | Ss.. | 5.6 6.6 6.9 6.5 6.7 7.1 6.7 | 5.8 6.9 6.8 7.0 7.0 7.0 7.2  
| ~~check~~ | .... |

| .. | S. | 6.8, 6.9 | 6.3, 6.5 | ~~check~~ | .. |

| w 10 | . | 6.9 | 6.7 | ~~check~~ | . |

| 26 ~~||||~~

| 10, 10 | .. | 6.8, 6.6 | 6.0, 6.6 | ~~check~~ | .. |

| .10,.10,10,10...|...SSs.ss|  
6.4,7.1,7.1,7.0,6.5,6.7,6.6,6.7,6.2|6.6,6.4,7.5,6.6,6.5,6.4,6.7,6.4,6.5 |  
....535,561 ...|

.10,10. | .SSS |5.8,6.4,6.3,6.0 | 6.1,5.1,5.1,5.1 | 14 . 523. |

. 28~~||||~~ | . |6.2 | 5.4| . |  
|. | 6.8 | 7.2 | . |

10.. | SSs | 7.0 7.1 } 6.6, 6.6 | 6.1 6.2 } 6.1 , 6.2 |518... |

. | S | . | . | . |

~~10^2~~ | . | 6.5 | 5.9 | . ~~||||~~

.2.... 29~~||||~~|S^2 SSSSs |4.6,4.8,5.5,4.9,4.1,4.7,4.1 |  
4.3,3.5,4.5,4.0,3.5,3.8,3.6 | ..... |

...|.SS | 6.2,6.9,6.5 | 5.5,5.6,5.6 | ...|

10.10,10 | SSs | 6.5 6.8 } 6.7 6.9 } 6.7 6.9 6.6 6.8 | 6.4 6.7 } 6.3 6.5 }  
6.7 6.9 6.8 7.0 | ....|

..... | ..SSSSs | 4.8,5.8,5.9,5.5,5.5,5.6,5.0,5.5 |  
4.6,4.7,5.1,4.8,5.1,4.9,4.7,4.8 | .....|

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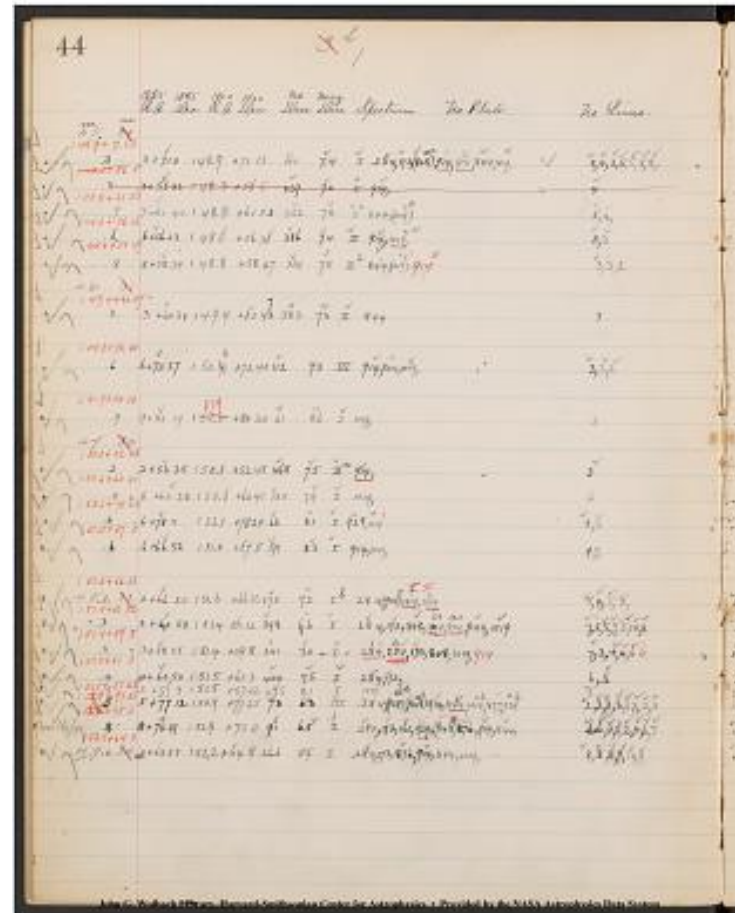
K Line	F Line	Brightness	Corr. Brightness	Mean Residuals	No. Remarks
2.1	2.1	2.1	2.1	2.1	2.1
2.2	2.2	2.2	2.2	2.2	2.2
2.3	2.3	2.3	2.3	2.3	2.3
2.4	2.4	2.4	2.4	2.4	2.4
2.5	2.5	2.5	2.5	2.5	2.5
2.6	2.6	2.6	2.6	2.6	2.6
2.7	2.7	2.7	2.7	2.7	2.7
2.8	2.8	2.8	2.8	2.8	2.8
2.9	2.9	2.9	2.9	2.9	2.9
3.0	3.0	3.0	3.0	3.0	3.0
3.1	3.1	3.1	3.1	3.1	3.1
3.2	3.2	3.2	3.2	3.2	3.2
3.3	3.3	3.3	3.3	3.3	3.3
3.4	3.4	3.4	3.4	3.4	3.4
3.5	3.5	3.5	3.5	3.5	3.5
3.6	3.6	3.6	3.6	3.6	3.6
3.7	3.7	3.7	3.7	3.7	3.7
3.8	3.8	3.8	3.8	3.8	3.8
3.9	3.9	3.9	3.9	3.9	3.9
4.0	4.0	4.0	4.0	4.0	4.0
4.1	4.1	4.1	4.1	4.1	4.1
4.2	4.2	4.2	4.2	4.2	4.2
4.3	4.3	4.3	4.3	4.3	4.3
4.4	4.4	4.4	4.4	4.4	4.4
4.5	4.5	4.5	4.5	4.5	4.5
4.6	4.6	4.6	4.6	4.6	4.6
4.7	4.7	4.7	4.7	4.7	4.7
4.8	4.8	4.8	4.8	4.8	4.8
4.9	4.9	4.9	4.9	4.9	4.9
5.0	5.0	5.0	5.0	5.0	5.0
5.1	5.1	5.1	5.1	5.1	5.1
5.2	5.2	5.2	5.2	5.2	5.2
5.3	5.3	5.3	5.3	5.3	5.3
5.4	5.4	5.4	5.4	5.4	5.4
5.5	5.5	5.5	5.5	5.5	5.5
5.6	5.6	5.6	5.6	5.6	5.6
5.7	5.7	5.7	5.7	5.7	5.7
5.8	5.8	5.8	5.8	5.8	5.8
5.9	5.9	5.9	5.9	5.9	5.9
6.0	6.0	6.0	6.0	6.0	6.0
6.1	6.1	6.1	6.1	6.1	6.1
6.2	6.2	6.2	6.2	6.2	6.2
6.3	6.3	6.3	6.3	6.3	6.3
6.4	6.4	6.4	6.4	6.4	6.4
6.5	6.5	6.5	6.5	6.5	6.5
6.6	6.6	6.6	6.6	6.6	6.6
6.7	6.7	6.7	6.7	6.7	6.7
6.8	6.8	6.8	6.8	6.8	6.8
6.9	6.9	6.9	6.9	6.9	6.9
7.0	7.0	7.0	7.0	7.0	7.0
7.1	7.1	7.1	7.1	7.1	7.1
7.2	7.2	7.2	7.2	7.2	7.2
7.3	7.3	7.3	7.3	7.3	7.3
7.4	7.4	7.4	7.4	7.4	7.4
7.5	7.5	7.5	7.5	7.5	7.5
7.6	7.6	7.6	7.6	7.6	7.6
7.7	7.7	7.7	7.7	7.7	7.7
7.8	7.8	7.8	7.8	7.8	7.8
7.9	7.9	7.9	7.9	7.9	7.9
8.0	8.0	8.0	8.0	8.0	8.0
8.1	8.1	8.1	8.1	8.1	8.1
8.2	8.2	8.2	8.2	8.2	8.2
8.3	8.3	8.3	8.3	8.3	8.3
8.4	8.4	8.4	8.4	8.4	8.4
8.5	8.5	8.5	8.5	8.5	8.5
8.6	8.6	8.6	8.6	8.6	8.6
8.7	8.7	8.7	8.7	8.7	8.7
8.8	8.8	8.8	8.8	8.8	8.8
8.9	8.9	8.9	8.9	8.9	8.9
9.0	9.0	9.0	9.0	9.0	9.0
9.1	9.1	9.1	9.1	9.1	9.1
9.2	9.2	9.2	9.2	9.2	9.2
9.3	9.3	9.3	9.3	9.3	9.3
9.4	9.4	9.4	9.4	9.4	9.4
9.5	9.5	9.5	9.5	9.5	9.5
9.6	9.6	9.6	9.6	9.6	9.6
9.7	9.7	9.7	9.7	9.7	9.7
9.8	9.8	9.8	9.8	9.8	9.8
9.9	9.9	9.9	9.9	9.9	9.9
10.0	10.0	10.0	10.0	10.0	10.0

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| 1855 RA. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No. Line |  
 Mag. Line | Spectrum | No. Plate | No. Lines |  
 H5  
 148.9 + 71.12  
 .3 + 710 148.9 + 7113 111 7.4 | .284,173(848),914,914,844,1019  
 5,4,3,5,5,5,8  
 [[:Strikethrough:]]  
 148.6 + 5636 7 + 61 40 148.8 + 6153 352 7.8 | 844,(1019) 5,4  
 148.8 + 5847 6 + 5623 148.0 + 5630 368 7.4 [[:?]] 914,1019 .3,3  
 8.8 + 5834 148.8 + 5847 .331 75 II 844,(1091)914 3,3,2  
 149.4 + 6047  
 3. .3 + 6034 149.4 + 6047 383 73 II 844 3  
 150.3 + 7240  
 .6 .6 + 7227 150.3 + 72 40 112 7.2 III 914,844,1019 3,3,2  
 151.9 + 8030  
 .9 .9 + 80 17 51.9 + 8030 61 8.6 I 1090, 5  
 150.1 + 5248  
 2. 2 + 3235 150.1 + 5248 468 7.5 II 914, 3  
 150.6 + 6041  
 .5 .5 + 6028 150.0 + 6041 135 7.9 I 1019, 6  
 152.1 + 7824  
 .6 .6 + 7811 152.1 + 7824 66 8.1 I 929, 1019 3,3  
 151.4 + 6633  
 48.2 3 2 + 66 20 151.6 + 6633 175 7.2 I 284(914)1019,1019 5,4,5,3  
 151.4 + 6112  
 .3 3 + 6059 151.4 + 0112 398 6.6 I 284,143,848,914,914,844,1019  
 7,5,5,7,5,10,8  
 151.4 + 598  
 .3 3 + 5855 151.4 + 598 341 7.0 I 284, 284,173,848,1019,914 7,3,4,4,66  
 151.5 + 613  
 .4 .4 + 6050 151.5 + 613 400 7.5 I 284,173  
 151.5 + 5722  
 51.5 + 5722 5 + 579 151.5 + 5722 435 8.1 I 1019 III 3  
 152.9 + 7725  
 .5 .5 + 77 121 152.9 + 7725 73 6.3 III  
 284(929)(848)876,914,844,1019,877,939 2,2,3,3,3,2,3  
 152 + 750  
 .8 .8 + 7447 152.9 + 750 91 6.5 I 284,173,161,929,(848)876,914,844  
 .6,6,4,5,2,4,6,7  
 152.3 3 + 648  
 4.9 0 0 + 6355 152.2 + 648 26.5 5.5 I 284,173,876,914,844,1019  
 8,8,8,9,10,9

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~~3~~ ~~h 1~~ 45  
 [6 Column Table]  
 K Line. | F Line. | Brightness. | [?] Brightness. | Mean Residuals | No.  
 Remark |  
 |---|---|---|---|---|  
~~m 35~~  
 7,10,10,10,2 | SSSS,s | 7.1,7.1,7.1,6.5,6.7,6.5 | 7.0,6.1,6.4,6.2  
 6.1,6.3 | | 522... |  
 . | S | 6.6 | 5.7 | | | ~~all~~  
 2. | S<sup>^</sup>[2] | 7.1,7.0 | 6.1,6.4 | | 582 |  
 10,10, | S,s | 6.8,7.0 | 5.9,6.2 | | 565 |  
 10,10, | S,s,s | 6.7,6.8,6.7 | 5.6,6.1,5.8 | | 548.. |  
~~36~~ | | | | | |  
 10 | S | 7.0 | 6.0 | symbol | | |  
 10,10.. | Ss,s | 7.0<sup>^</sup>[6.8]] | 7.2<sup>^</sup>[6.8]] | 6.9<sup>^</sup>[6.8]] | 6.8<sup>^</sup>[6.6]] | 6.7<sup>^</sup>[6.4]]  
 6.8<sup>^</sup>[6.7]] | |... |  
 . | . | 7.0 | 7.5 | | |  
~~37~~ | | | | | |  
 10 | S | ~~6.8~~ | ~~6.6~~ | ~~6.6~~ |  
~~5.7~~ | 530  
 . | 6.8 | 6.2 | |  
 .. | S | 7.1,6.9 | 7.7,7.2 | |..  
 2<sup>^</sup>2 | S | 6.9,6.9 | 6.4,6.5 | |..  
 10... | ~~38~~  
 .S,s | 6.3,6.7,6.9, | ~~6.9~~ | 6.0,6.2,6.5, | ~~6.5~~ | 16...  
 ...10... | SSSSs | 5.7,6.3,6.5,6.4,6.4,5.9 | 5.2,4.9,5.4,5.7,5.4,5.3 | |.....  
 10..... | S,s,s | 6.4, 7.3,6.9,6.3,6.6 | 5.8,5.7,5.6,5.7 | |.....  
 .. | 6.5,6.8 | 6.0,5.4 | |..  
 . | 6.9 | 6.2 | |  
 10,10,10,10,10,10..  
 10 | SSS,s,s,s | 6.5,6.8]] | 6.6,6.9]] | 6.7,7.0]] | 6.4,6.6]] | 6.6,6.9]] | 6.4,6.6]] | 6.7  
 ,7.0]] | 6.3,6.5]] | 6.8,7.1]] | 7.1,7.4]] | 6.4,6.7]] | 6.5,6.7]] | 6.4,6.7]] | 6.6,6.8]] | 6.5,  
 6.8]] | 6.7,6.9]] | | 411...567.611  
 2,4,... | SSSs | 6.0,6.4,6.8,6.3,6.6,6.5,6.3,6.3 | 6.2,5.7,6.5,6.7,6.2,6.2,6.3  
 ,6.6 | |.....  
 ..... | ~~39~~ | SSSs | 5.3,5.7,6.3,5.8,5.8 | 4.9,4.4  
 ,5.4,5.2,4.9,5.0 | |.....

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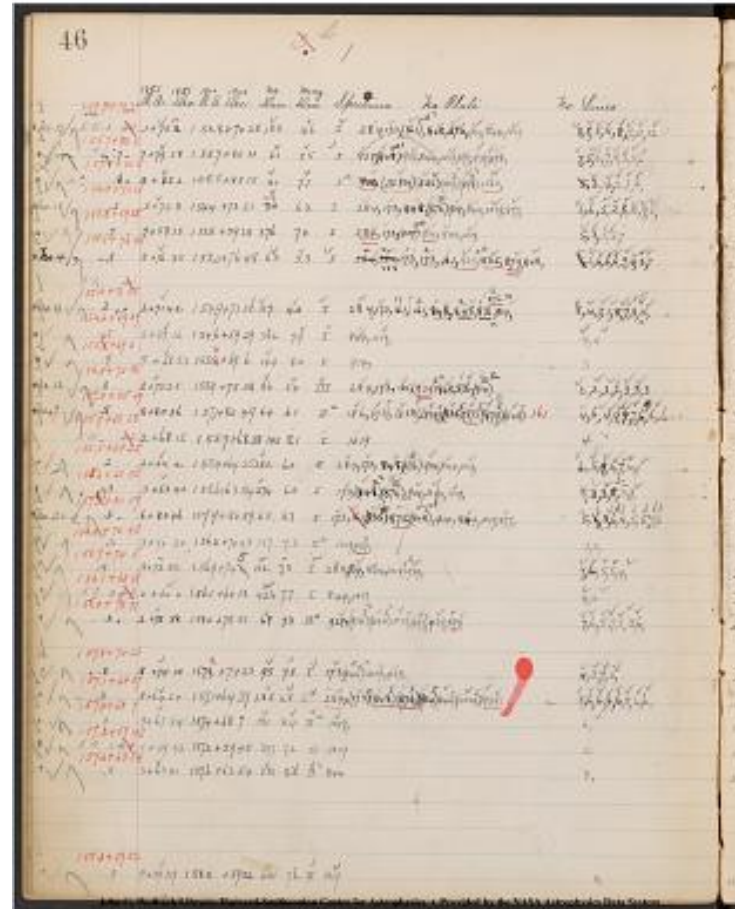
46 ~~3~~<sup>h</sup> 1

[6 columned table]

1855|1855|1900|No.|Mag.  
R.A. Dec.|R.A. Dec.|Dm.|Spectrum No plate.|No Lines|  
153.7 m+70 24~~m~~  
.no. 17 50.1 ~~40~~ 1+70  
~~2~~ 111 53.8+70 25|153|4.6| 284,  
173,(161)<sup>a</sup> 848,876,914,844,1019|8,5,11,8,9,11,12|  
1 55.7+85 11|  
8.8+85 2|158.8+85 15|41|7.7|<sup>a</sup>  
~~928~~ ~~924~~ (335)<sup>a</sup> (1019)<sup>a</sup> (898)<sup>a</sup> 1564  
~~5~~ 3,4,2,1,2,|  
153.8<sup>a</sup> ~~5~~ +59 28|  
7.7+59 15|153.8+59 28|376|7.0| 284,173,~~(929)~~<sup>a</sup>  
~~914,844,1019~~ |5,3,5,5,7|  
no.4 +8.8+76 35|155.0+76 4.8|63|5.3,|  
~~284~~<sup>a</sup> ~~1~~, 284<sup>a</sup> ~~2~~, ~~173~~<sup>a</sup> ~~1~~, 173<sup>a</sup> ~~2~~, 161  
, (929)<sup>a</sup> 835,879,848, ~~5~~ ~~6,6,6,9,4,3,7~~

51, ~~41~~

155.0+71 55|  
no.11 2.2 7+71 42|154.9+71 56|117|4.0|  
284,173,161<sup>a</sup> ~~1~~, 161<sup>a</sup> ~~2~~, 848<sup>a</sup> ~~1~~, 848<sup>a</sup> ~~2~~, 876<sup>a</sup> ~~1~~, 876<sup>a</sup> ~~2~~, 914,|8,1  
0,7,1,8,7,8,5,11,|  
1 54.6+59 29|  
5.5+59 16|1 54.6+59 29|382|7.9| 844,1019,|4,4|  
155.~~5~~ ~~4~~ +69 6|  
9.9+68 53|155.~~3~~ ~~4~~ +69 6|155|8.0|  
914,|3|  
156.0+75 38|  
No. 12. 8.8+75 25|155.9+75 38|86|5.0||  
284,173,161,(929)<sup>a</sup> 848,876,(914)<sup>a</sup> 2,2,2,2,3,3,3|  
~~157.0~~ ~~80~~ 49|  
no.9 8.8+80 36|1 57.1+80  
49|64|6.1|<sup>a</sup> 186,(173),(258),(929),(335)<sup>a</sup> (335)<sup>a</sup> (875)<sup>a</sup> (879)<sup>a</sup> (848)<sup>a</sup>  
161|4,6,4,9,9,7,6,6,6|  
1 55.7+68 28|  
52. ~~42~~ 2+68 15|1 55.7+68 28|145|8.1|  
1019|4|  
1 55.5+64 25|  
2.2+64 12|1 55.4+64 25|282|6.0|  
284,173,848,(876)<sup>a</sup> 914,844,1019,|6,5,9,5,7,10,9|  
1 55.6+63 55|  
3.3+63 42|1 55.6+63 54|274|6.0|  
173,(848)<sup>a</sup> 2(876)<sup>a</sup> 3(914,844,1019,|5,3,3,8,3,9,|  
1 57. ~~8~~ 9+80 59|  
No. 20 6.6+80 46|1 57.9+80 59|65|6.7|  
173, ~~161~~ ~~835~~ <sup>a</sup> 875,(848)<sup>a</sup> 914,844,1019,877|5, ~~6~~ ~~3,6,4,~~  
5,5,7,6|  
1 56.0+70 43|  
3.3+70 20|1 56.0+70 43|157|7.3|<sup>a</sup> 1019,939<sup>a</sup> 2,3,|  
1 56.9+74 5|  
9.9 73 52|1 56.9+74 ~~6~~ ~~5~~ 112|7.3|  
284,914,844,(1019)<sup>a</sup> 939,|7,6,5,5,4,|  
1 56.1+60 13|  
53 0. ~~43~~ 0+60 0|1 56.1+60 13|423|7.7|  
844,1019|4,6|  
1 58.0+78 51|



1 57.8+74 23|  
 |.8|.8+74 10|157.|[~~striketrough~~]]9|[~~striketrough~~]]8+74 23|95|7.5|  
 17.3,(844)^|1a 1019,939|4,3,7,5,|  
 |1 57.1+64 37|  
 |.8|.8+64 24|1 57.1+64 37|285|6.5|]^a  
 284,.(172)^|(848)^|(876)^|(914)^|(939)^|5,6,6,4,6,8,6,6,|  
 |1 57.4+68 7|  
 |9|9+67^|[v]]54|157.4+687|181^|[v]]8.4|[v]]|I^|[a^|[v]]]|1019,^[v]]6,^[v]]|  
 |1 57.2+59 45|  
 |54.1 34.|[~~striketrough~~]]4|[~~striketrough~~]]1+59 32|157.2+59  
 45|397|7.2|1|1019|2|  
 |1 57.6+63 54|  
 |.3|.3+63^|[v]]4|1|157.6+63 54|281^|[v]]|8.0^[v 2]]|844|  
 |1 58.0+59 52|  
 |.9|.9+59^|[v]] 39|1 58.0 +5952|401^|[v]]|7.2^|[v]]|I^|[v]]|1019^|[v]]|3.|

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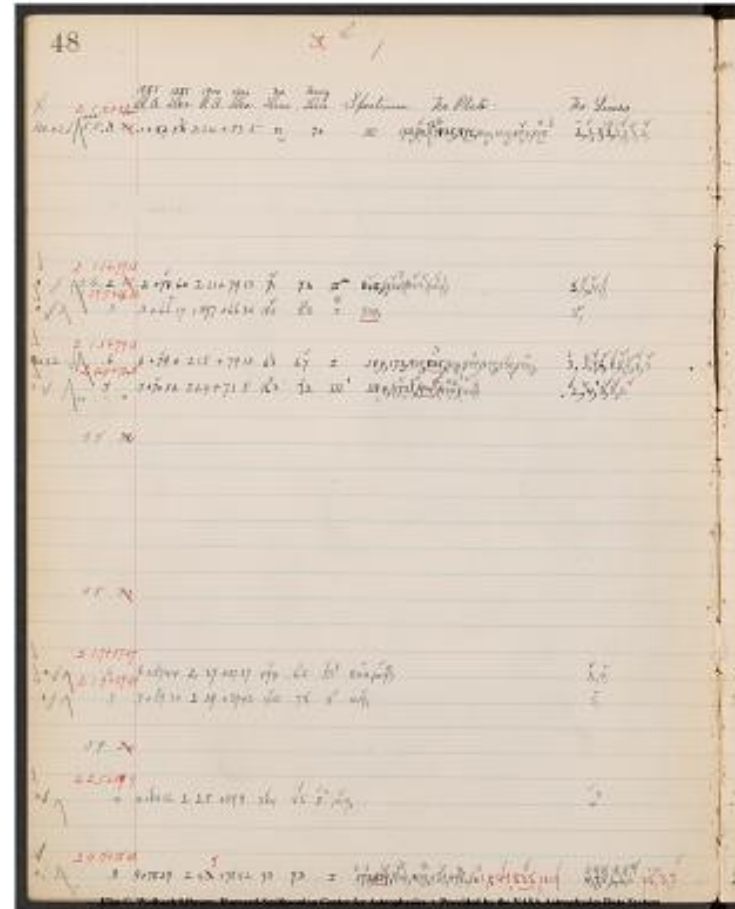


~~3~~ <sup>h</sup> 1

[10 columned table]

| 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No. DM. | Mag. DM.  
Spectrum. | No. Plate. | No Lines. |

--- | --- | --- | --- | --- | --- | --- | --- | --- | --- |  
X 2 1. ~~2~~ <sup>4</sup> +83 ~~5~~  
~~6~~ no. 42 <sup>55</sup> <sup>m.</sup> .1 ~~50~~ <sup>m.</sup>  
~~1~~ .1 | +82 5 ~~3~~ ~~2~~ | 2 1.4 |  
+83 ~~5~~ ~~6~~ | 51 | 7.0 | III | 173, (929) <sup>III</sup>  
b] 835, 875, 844, 1019, 884, 898 <sup>b]</sup> | 2, 3, 3, 3, 3, 3, |  
| ~~5~~ | 5 | +82 52 | | | | | | | | | |  
| <sup>2</sup> 1.1 +79 13 56 .2 ~~51~~ ~~2~~ | +78 60 |  
2 1.1 | +79 13 | 71 | 7.3 | II a | 848, (914) <sup>II</sup> (844) <sup>II</sup> (1019) <sup>II</sup> | 3,  
5, .4, 9, |  
| <sup>1</sup> 1 59.7 +66 30 .3 | .3 | +66 17 | 1 59.7 | +66 30 | 185 | 8.8 | | |  
| 939, | 3, |  
| 2 1.5 +79 13 no. 22 <sup>6</sup> | .6 | +79 0 | 2 1.5 | +79 13 | 6.3 | 6.7 | | | 284,  
173, 929, | 835, | 914, 844, 877, 939, 884, | 3,  
5, 7, 6, 8, 8, 9, 8, 3 . . |  
| <sup>2</sup> .0.4 +71 .5 .7 | .7 | +70 52 | 2 0.4 | +71 5 | 163 | 7.2 | III ? | 284,  
(173) <sup>II</sup> ?], | (914) <sup>II</sup> (844) <sup>II</sup> ?]  
(1019) <sup>II</sup> | .2, 4 ?, 3, 3, 2 |  
57 ~~52~~ | | | | | | | | | | | | | |  
58 ~~53~~ | | | | | | | | | | | | | |  
| <sup>2</sup> 1.7 +57 57 .6 | .6 | +57 44 | 2 1.7 | +57 57 | 494 | 6.5 | III ? | 844,  
(1019) <sup>II</sup> | 3, 4, |  
| <sup>2</sup> 1.9 +59 43 .7 | .7 | +59 30 | 2 1.9 | +59 43 | 415 | 7.8 | | | 1019, | 5, |  
59. ~~54~~ | | | | | | | | | | | | | |  
| <sup>2</sup> 2.5 +59 9 .4 | .4 | +58 56 | 2 2.5 | +59 5 | 384 | 8.5 | | ? | 1019, | 4 ?  
| <sup>2</sup> 4.7 +78 42 .9 | .9 | +78 29 | 2 4. ~~3~~ ~~3~~  
7 | +78 42 | 73 | 7.3 | | | 173, | 929, | 914  
~~877~~ ~~898~~  
939 ~~161~~, 844, | 835, | 1019 | 4  
~~7~~ ~~6~~ ~~6~~  
8 ~~6~~ ~~6~~  
6 ~~6~~ ~~6~~  
~~3~~, 5, 3, 7 |



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$$3^{\overline{h}} \cdot 149$$

[[6 column table]]

K Line	F line.	Brightness.	Corr. Brightness	Mean Residuals.	No.
Remarks.					

[illegible]
$$S^A[\square] S^A[\square] s^A[\square] s s^A[\square] s^A[\square] | 7.3^A[[7.0]]^A[\square] 6.3^A[[6.0]]^A[\square] \}$$
$$7.0^{+6.8}_{-6.8} \times 10^{-4}, 6.9^{+6.7}_{-6.7} \times 10^{-4}, 6.7^{+6.4}_{-6.4} \times 10^{-4}, 6.0^{+5.9}_{-5.9} \times 10^{-4}$$
$$7.2^{A[6.9]} \wedge [7.2] \vee 6.4^{A[6.1]} \wedge [7.3] \vee 7.3^{A[7.0]} \vee 7.5^{A[7.2]} \vee 7.6^{A[7.4]} \vee$$
$$\begin{array}{ccccccc} 7.6^{\wedge}[[7.4]] & 7.2^{\wedge}[[6.9]] & 6.9^{\wedge}[[6.8]] & 7.1^{\wedge}[[6.8]] & 7.5^{\wedge}[[7.2]] & | & -- \\ 436^{\wedge}[[\square]] & 623^{\wedge}[[\square]] & & & & & \end{array}$$

.436<sup>1</sup> [□].....633<sup>1</sup> [□]  
| 10^1 [□] ^ [□] ^ [□] 2^1

6 6 ^[[ ] 6 6 ^[[ ] 6 0 ^[[ ] 6 4 6 9 6 5 6 4 | | 53 1 ^[[ ]

0.0, [ ] 0.0, [ ] 0.0, [ ] | 0.4, 0.9, 0.9, 0.4 | | 52.1, [ ] ..., ... |  
| ^[ ] | | 6.3 ^[ ] | 6.1 | | |

$$^{\wedge}[\square] 5 ^{\wedge}[\square] 2 ^{\wedge}[\square] ^{\wedge}[\square] 2 ^{\wedge}[\square]$$
$$S^{\wedge}[\square] S^{\wedge}[\square] s^{\wedge}[\square] s s[\text{striketrough}]^{\wedge}[\square] | \cdot^{\wedge}[\square] 6.9.^{\wedge}[\square] 5.9.^{\wedge}[\square] 7.0.^{\wedge}[\square]$$

6.0,^[] 6.1,^[] 6.4,^[] 5.5,^[] 6.9^[] | . 6.5,5.9,7.1,6.3,6.1,6.4,6.1,6.3 |

.....

$$10, ^{\wedge}[\square] : ^{\wedge}[\square] 20, ^{\wedge}[\square] 10, ^{\wedge}[\square] 10, ^{\wedge}[\square] | : ^{\wedge}[\square] : ^{\wedge}[\square] S^{\wedge}[\square] S^{\wedge}[\square] : ^{\wedge}[\square] |$$
$$7.1^{[[6.7]]^{\{\}}}\ 7.0^{\{\}}\ 6.4^{\{\}}\ 6.5^{\{\}}\ 6.5^{\{\}}\ |\ 8.3^{[[7.9]]}$$

6.0,6.1,5.9,6.3 | | ..... |

57~~58~~ 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 106

58[~~strikethrough~~] |--|--|--|--|

$$10,^{\wedge}[\square] \quad 10^{\wedge}[\square] \mid S,^{\wedge}[\square] \quad s^{\wedge}[\square]$$

54771 | 4771 | 6 04771 | 6 2 | 1

5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0
59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100					

^[] | ^[] | 6.4^[] | 5.7 | |

[illegible]
$$S^A[X] \mid S^A[X] \mid S^A[X] \mid S^A[X] \mid S^A[\square] \mid S^A[\square] \mid S^A[\square] \mid 7 \mid 3^A[X] \mid 6 \mid 4^A[X]$$
$$6.4^{[X]} 6.6^{[X]} 5.8^{[X]} 6.3^{[X]} 6.8^{[\square]} 6.5^{[\square]} 6.8^{[\square]} 6.2^{[\square]}$$

6.8.7.0.6.6.5.6.3.6.8.... | v | .....



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$$[\text{[strikethrough]}]4[\text{[/strikethrough]}]^\text{[h]}2$$

[[10 columned table]]

1855	1855	1900	1900	No.	Mag.				
R.A.	Dec.	R.A	Dec.	DM.	DM.	Spectrum.	No. Plate	No. Lines	

$$|2\ 3.3^{+59}\ 31^{\wedge}[[m[[\text{subscript}]]0[/\text{subscript}]]|.1|^{+59}$$

18|23.3|+[[~~60~~]]59 31|422|6.8||<sup>a</sup>|173,  
844<sup>^</sup>[[<sup>?</sup>]], 1019<sup>^</sup>[[<sup>?</sup>]],|

 $[2, 3, 7, ]$ 

|2 4.1 +73 33|.1|+73 20|24.1|+73 34|121|6.5|III|173, 914, 844, 1019^[[b]],  
939, | 2, 3, 3, 2, 2, |

[[[~~24.9~~+78 42|,0|+78 29|1 4.9|+78 42|73|7.3|]|161,  
844^<sup>^</sup>[~~Id?~~], <sup>^</sup>[[835]] 1019| |3, 5, <sup>^</sup>[3]  
7|~~7~~]]

1						
---	--	--	--	--	--	--

[[~~2 51 +68 54|.5|+68 41|25.1|+68 54|153|7.6||914,|~~  
6,[[/del]]

|2 4.6 +57 11|.5|+56 58|24.6|+57 11|438|6.5|III|844,| |3,|

12

2	6.2	+64	23	.8	+64	10	26.2	+64	23	307	7.0	844, 1019, 939,	4, 6, 4,
2	6.0	+72	00	.0	+72	56	26.0	+72	0	120	8.5	844,	12

26.9	+73.09	.9	+72.56	26.9	+73.9	120	8.5		844		3,
30.6	+83.13	1	+83.0	30.6	+83.13	54	8.0		020	844	10

2|9.6|+83|13|.1|+83|0|29.6|+83|13|54|8.9|1|929, 844^[[|?]], 1019, 898,|  
5, 5, 6, 3,|

2 6.7 +66

[[1019^[[Ila]], 1019,[[/u]] 939| 4, 2, 7

$[2.8.6 + 80.16].3 + 80.3[28.6 + 80.16]707.7 \parallel \wedge[[929]]$ , 914, 844, 1019, 877,

$$^{\wedge}[[939]]\ 898, | \quad | 5, 4, 4, 8, 3, ^{\wedge}[[5]]\ 6|$$

|2 6.6 +58 6|.5|+57 53|26.6|+58 6|519|6.6|III|844, 1019^[[II?]]| |3, 3, |

2 7.1 +65 52|.6|+65 39|27.1|+65 52|242|6.8|lll?|844, 1019^[[llla?]]] |1,  
3,|

|2 8.5 +72 52|.5|+72 39|28.5|+72 52|121|8.0|,|914, 1019,| |7, 4|

27.9 +58 1|.8|+57 48|27.9|~~27.9~~+58 1|~~27.9~~+58 1|

1|522|7.5|I?|1019,| |1|

50

X<sup>50</sup>

	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000
1	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000

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52

~~4~~<sup>h</sup>2

[10 columned table]

| 1855|1855|1900|1900|No.|Mag.| | | |  
| R.A.|Dec.|R.A|Dec.|DM.|DM.|Spectrum.|No. Plate|No. Lines|

5<sup>m</sup>

~~10~~<sup>m</sup>

6 ~~11~~

29.7+6448

|<sup>symbol</sup>|<sup>symbol</sup>

.3|3+6435|2~~10.6~~<sup>9.7</sup>+6448|313<sup>7</sup>

0<sup>844</sup>|<sup>844</sup>|<sup>844</sup>| | 3<sup>844</sup>|<sup>844</sup>

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~~4~~ 2h

| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |

2 15.8 + 80 10 R.a,  
10.0 20|0+79 57 2 15.4+80 10 69 8.3 I 929,1019,898, 4,7,3,  
2 14.6 + 75 40  
2 |2 + 75 27 2 14.6 + 75 40 94 7.5 I 1019, 939, 914 5,6,4

2 14.4 + 69 52  
6 |6 + 69 39 2 14.4 + 69 52 144 8.0 I 1019, 3,

2 14.6 + 64 47  
11|1 ~~21~~ 1 + 64 34 2 14.6 + 64 47 321  
7.0 III<sup>1</sup> 844, 1019<sup>1</sup>, 3,3,  
2 15.3 + 73 3  
2 2 + 72 50 2 15.3 + 73 3 12.8 7.5 I 1019, 5,

2 14.8 + 56 47  
7 |7 + 56 34 2 14.8 + 56 47 568 6.7 II 939, 3,

12 ~~22~~

2 15.3 + 55 24  
3 .3 + 55 11 2 15.3 + 55 23 598 5.7 I 161, 877<sup>1</sup> 2,939<sup>1</sup> II<sup>a</sup> 2, 4,5,3,

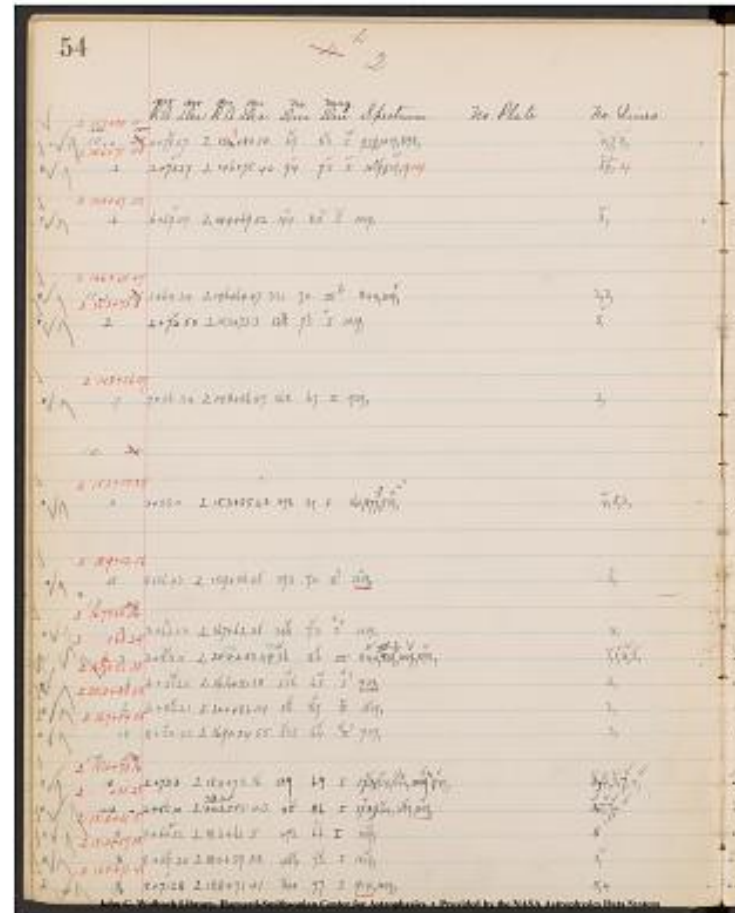
2 15.9 + 56 56  
18 .8 + 56 43 2 15.9 + 56 56 593 7.9 II<sup>?</sup> 1019, 2,

13 ~~23~~

2 16.7 + 62 36  
3 .3 + 62 23 2 16.7 + 62 36 388 7.3 I<sup>9</sup> 1019, 4,  
2 + 83 24  
3 .3 + 83 11 2 20.4 + 83 24 56 8.0 III 844<sup>1</sup> III,929<sup>1</sup>,1019,898, 1,1,3,3,  
2 16.7 + 51 38  
6 6 + 51 25 2 16.6 + 51 38 556 6.5 I<sup>7</sup> 939, 3,  
2 20.0 + 82 34  
6 .6 + 82 21 2 20.0 + 82 34 55 8.7 II 1019, 3,  
2 16.9 + 54 55  
8 .8 + 54 42 2 16.9 + 54 55 535 6.4 II<sup>7</sup> 939,

14 ~~24~~

2 18.4 + 73 16  
2 |2 + 73 3 2 18.4 + 73 16 139 6.9 I 17.3, 914, 844<sup>1</sup> II, 1019<sup>2</sup>, 939,  
3,4,3,7,4,  
2 + 85 23  
2 . |2 + 85 10 2 ~~22.3~~ 23.4 + 85 23 45  
8.6 I 173, 844, 1019, 1057, 3,7,7,4  
2 18.2 + 61 5  
9 |9 + 60 52 2 18 2 + 61 5 472 6.6 I 1019, 5  
2 18.0 + 59 33  
8 |8 + 59 20 2 18.0 + 59 33 484 7.2 I 1019, 3,  
2 18.8 + 71 41  
8 |8 + 71 28 2 18.8 + 71 41 140 77 I 914,1019, 5,4



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| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remarks |

.5. ~~m 25~~ ~~7.0, 6.9, 7.0~~ ~~7.9, 7.4, 7.7~~...

... ~~S~~ ~~6.5, 6.5, 6.6~~ ~~6.6, 6.8, 5.7~~...

. ~~7.1~~ ~~6.8~~ |.

10. ~~26~~ ~~S~~ ~~6.9, 7.1, 6.9~~ ~~6.0, 6.2, 6.4~~ | ~559.

. ~~S~~ ~~6.7~~ ~~6.6~~ |.

10. ~~S~~ ~~6.3~~ ~~5.7~~ |.

~~27~~ ~~SS~~ ~~6.5, 6.5, 5.6~~ ~~5.3, 5.3, 5.0~~ |. 606,

10. ~~6.7~~ ~~6.0~~ |.

~~28~~ ~~6.7~~ ~~6.1~~ |.

. ~~6.7~~ ~~6.1~~ |.

.. 10. 10. ~~S~~ ~~SS~~ ~~6.6, 6.7, 6.3, 6.5, 7.0, 7.0, 6.5, 6.8~~ ~~7.1, 7.9, 7.2, 7.6, 7.5, 8.2, 7.4~~

7.9 |. 438.

. ~~7.0~~ ~~6.3~~ |.

10. ~~S~~ ~~6.7~~ ~~7.5~~ |.

10. ~~S~~ ~~6.8~~ ~~6.2~~ |.

~~29~~ ~~SSS~~ ~~7.0, 6.7, 6.9, 6.4, 6.9~~ ~~6.1,~~

6.5, 6.4, 6.3, 7.0 |. ....

5.2, 10. ~~SS~~ ~~7.1, 6.7, 6.1, 6.7~~ ~~7.6, 7.6, 6.4, 8.2~~ |. ....

. ~~6.7~~ ~~6.1~~ |.

. ~~6.9~~ ~~6.2~~ |.

. ~~6.8, 6.8~~ ~~6.5, 6.6~~ |

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\* Provided by the NASA Astrophysics Data System

K Line	F Line	Brightness	Corr. Brightness	Mean. Residuals	No. Remarks
1.5	3.0	7.0	7.0	0.0	
2.0	4.0	6.5	6.5	0.0	
3.0	5.0	6.0	6.0	0.0	
4.0	6.0	5.5	5.5	0.0	
5.0	7.0	5.0	5.0	0.0	
6.0	8.0	4.5	4.5	0.0	
7.0	9.0	4.0	4.0	0.0	
8.0	10.0	3.5	3.5	0.0	
9.0	11.0	3.0	3.0	0.0	
10.0	12.0	2.5	2.5	0.0	
11.0	13.0	2.0	2.0	0.0	
12.0	14.0	1.5	1.5	0.0	
13.0	15.0	1.0	1.0	0.0	
14.0	16.0	0.5	0.5	0.0	
15.0	17.0	0.0	0.0	0.0	
16.0	18.0	0.0	0.0	0.0	
17.0	19.0	0.0	0.0	0.0	
18.0	20.0	0.0	0.0	0.0	
19.0	21.0	0.0	0.0	0.0	
20.0	22.0	0.0	0.0	0.0	
21.0	23.0	0.0	0.0	0.0	
22.0	24.0	0.0	0.0	0.0	
23.0	25.0	0.0	0.0	0.0	
24.0	26.0	0.0	0.0	0.0	
25.0	27.0	0.0	0.0	0.0	
26.0	28.0	0.0	0.0	0.0	
27.0	29.0	0.0	0.0	0.0	
28.0	30.0	0.0	0.0	0.0	
29.0	31.0	0.0	0.0	0.0	
30.0	32.0	0.0	0.0	0.0	
31.0	33.0	0.0	0.0	0.0	
32.0	34.0	0.0	0.0	0.0	
33.0	35.0	0.0	0.0	0.0	
34.0	36.0	0.0	0.0	0.0	
35.0	37.0	0.0	0.0	0.0	
36.0	38.0	0.0	0.0	0.0	
37.0	39.0	0.0	0.0	0.0	
38.0	40.0	0.0	0.0	0.0	
39.0	41.0	0.0	0.0	0.0	
40.0	42.0	0.0	0.0	0.0	
41.0	43.0	0.0	0.0	0.0	
42.0	44.0	0.0	0.0	0.0	
43.0	45.0	0.0	0.0	0.0	
44.0	46.0	0.0	0.0	0.0	
45.0	47.0	0.0	0.0	0.0	
46.0	48.0	0.0	0.0	0.0	
47.0	49.0	0.0	0.0	0.0	
48.0	50.0	0.0	0.0	0.0	
49.0	51.0	0.0	0.0	0.0	
50.0	52.0	0.0	0.0	0.0	
51.0	53.0	0.0	0.0	0.0	
52.0	54.0	0.0	0.0	0.0	
53.0	55.0	0.0	0.0	0.0	
54.0	56.0	0.0	0.0	0.0	
55.0	57.0	0.0	0.0	0.0	
56.0	58.0	0.0	0.0	0.0	
57.0	59.0	0.0	0.0	0.0	
58.0	60.0	0.0	0.0	0.0	
59.0	61.0	0.0	0.0	0.0	
60.0	62.0	0.0	0.0	0.0	
61.0	63.0	0.0	0.0	0.0	
62.0	64.0	0.0	0.0	0.0	
63.0	65.0	0.0	0.0	0.0	
64.0	66.0	0.0	0.0	0.0	
65.0	67.0	0.0	0.0	0.0	
66.0	68.0	0.0	0.0	0.0	
67.0	69.0	0.0	0.0	0.0	
68.0	70.0	0.0	0.0	0.0	
69.0	71.0	0.0	0.0	0.0	
70.0	72.0	0.0	0.0	0.0	
71.0	73.0	0.0	0.0	0.0	
72.0	74.0	0.0	0.0	0.0	
73.0	75.0	0.0	0.0	0.0	
74.0	76.0	0.0	0.0	0.0	
75.0	77.0	0.0	0.0	0.0	
76.0	78.0	0.0	0.0	0.0	
77.0	79.0	0.0	0.0	0.0	
78.0	80.0	0.0	0.0	0.0	
79.0	81.0	0.0	0.0	0.0	
80.0	82.0	0.0	0.0	0.0	
81.0	83.0	0.0	0.0	0.0	
82.0	84.0	0.0	0.0	0.0	
83.0	85.0	0.0	0.0	0.0	
84.0	86.0	0.0	0.0	0.0	
85.0	87.0	0.0	0.0	0.0	
86.0	88.0	0.0	0.0	0.0	
87.0	89.0	0.0	0.0	0.0	
88.0	90.0	0.0	0.0	0.0	
89.0	91.0	0.0	0.0	0.0	
90.0	92.0	0.0	0.0	0.0	
91.0	93.0	0.0	0.0	0.0	
92.0	94.0	0.0	0.0	0.0	
93.0	95.0	0.0	0.0	0.0	
94.0	96.0	0.0	0.0	0.0	
95.0	97.0	0.0	0.0	0.0	
96.0	98.0	0.0	0.0	0.0	
97.0	99.0	0.0	0.0	0.0	
98.0	100.0	0.0	0.0	0.0	
99.0	101.0	0.0	0.0	0.0	
100.0	102.0	0.0	0.0	0.0	
101.0	103.0	0.0	0.0	0.0	
102.0	104.0	0.0	0.0	0.0	
103.0	105.0	0.0	0.0	0.0	
104.0	106.0	0.0	0.0	0.0	
105.0	107.0	0.0	0.0	0.0	
106.0	108.0	0.0	0.0	0.0	
107.0	109.0	0.0	0.0	0.0	
108.0	110.0	0.0	0.0	0.0	
109.0	111.0	0.0	0.0	0.0	
110.0	112.0	0.0	0.0	0.0	
111.0	113.0	0.0	0.0	0.0	
112.0	114.0	0.0	0.0	0.0	
113.0	115.0	0.0	0.0	0.0	
114.0	116.0	0.0	0.0	0.0	
115.0	117.0	0.0	0.0	0.0	
116.0	118.0	0.0	0.0	0.0	
117.0	119.0	0.0	0.0	0.0	
118.0	120.0	0.0	0.0	0.0	
119.0	121.0	0.0	0.0	0.0	
120.0	122.0	0.0	0.0	0.0	
121.0	123.0	0.0	0.0	0.0	
122.0	124.0	0.0	0.0	0.0	
123.0	125.0	0.0	0.0	0.0	
124.0	126.0	0.0	0.0	0.0	
125.0	127.0	0.0	0.0	0.0	
126.0	128.0	0.0	0.0	0.0	
127.0	129.0	0.0	0.0	0.0	
128.0	130.0	0.0	0.0	0.0	
129.0	131.0	0.0	0.0	0.0	
130.0	132.0	0.0	0.0	0.0	
131.0	133.0	0.0	0.0	0.0	
132.0	134.0	0.0	0.0	0.0	
133.0	135.0	0.0	0.0	0.0	
134.0	136.0	0.0	0.0	0.0	
135.0	137.0	0.0	0.0	0.0	
136.0	138.0	0.0	0.0	0.0	
137.0	139.0	0.0	0.0	0.0	
138.0	140.0	0.0	0.0	0.0	
139.0	141.0	0.0	0.0	0.0	
140.0	142.0	0.0	0.0	0.0	
141.0	143.0	0.0	0.0	0.0	
142.0	144.0	0.0	0.0	0.0	
143.0	145.0	0.0	0.0	0.0	
144.0	146.0	0.0	0.0	0.0	
145.0	147.0	0.0	0.0	0.0	
146.0	148.0	0.0	0.0	0.0	
147.0	149.0	0.0	0.0	0.0	
148.0	150.0	0.0	0.0	0.0	
149.0	151.0	0.0	0.0	0.0	
150.0	152.0	0.0	0.0	0.0	
151.0	153.0	0.0	0.0	0.0	
152.0	154.0	0.0	0.0	0.0	
153.0	155.0	0.0	0.0	0.0	
154.0	156.0	0.0	0.0	0.0	
155.0	157.0	0.0	0.0	0.0	
156.0	158.0	0.0	0.0	0.0	
157.0	159.0	0.0	0.0	0.0	
158.0	160.0	0.0	0.0	0.0	
159.0	161.0	0.0	0.0	0.0	
160.0	162.0	0.0	0.0	0.0	
161.0	163.0	0.0	0.0	0.0	
162.0	164.0	0.0	0.0	0.0	
163.0	165.0	0.0	0.0	0.0	
164.0	166.0	0.0	0.0	0.0	
165.0	167.0	0.0	0.0	0.0	
166.0	168.0	0.0	0.0	0.0	
167.0	169.0	0.0	0.0	0.0	
168.0	170.0	0.0	0.0	0.0	
169.0	171.0	0.0	0.0	0.0	
170.0	172.0	0.0	0.0	0.0	
171.0	173.0	0.0	0.0	0.0	
172.0	174.0	0.0	0.0	0.0	
173.0	175.0	0.0	0.0	0.0	
174.0	176.0	0.0	0.0	0.0	
175.0	177.0	0.0	0.0	0.0	

~~4~~ <sup>h</sup> 2

[[10 columned table]]

| 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No. DM. | Mag. DM. |  
Spectrum. | No. Plate. | No. Lines. |  
|---|---|---|---|---|---|

| X 2 18.2+56 9 m ~~m~~ 15.1  
~~30~~ | .1+55 | 56 | 2 18.2+56 | 10 | 612 |  
6.3 | | 1019 | 939, | | 4, 1 i |  
| • U ^ 2 18.3+57 44 • ^ .1 | .1+57 | 31 | 2 18.3+57 | 44 | 566 | 8.1 | |  
939, | | 5, |

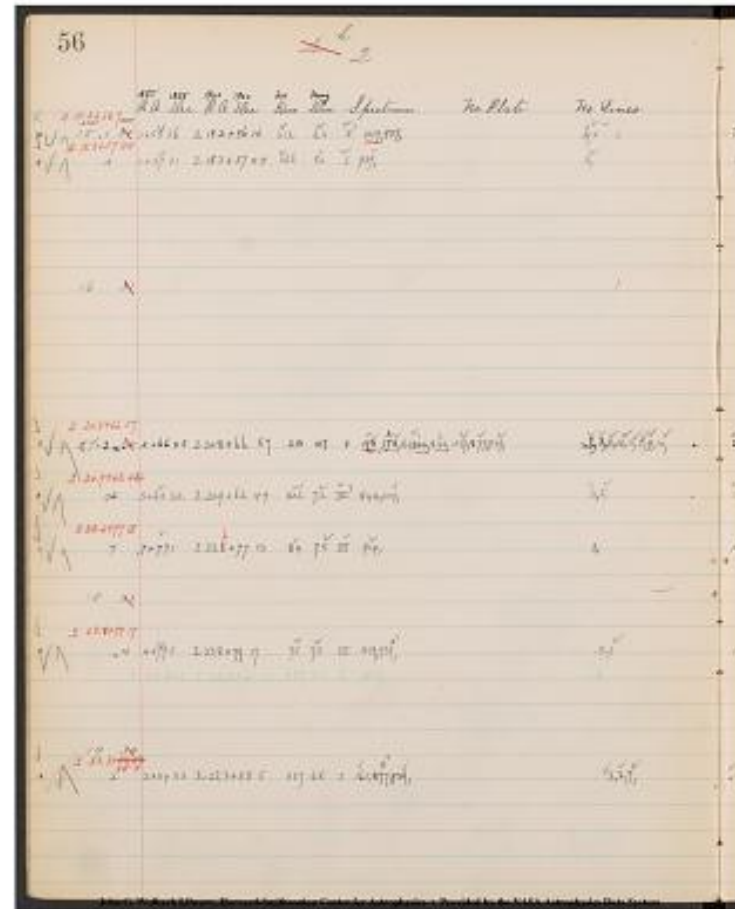
16 ~~31~~

• ^ 2 20.8+66 54 7.2 ~~3.2~~ | .2+66 | 45 | 2  
20.8+66 | 54 | 213 | 4.7 | | 1 173, 2 173, 161,  
1 844, 2 844, 1019, 877, 939, | | 7, 3, 8,  
10, 11, 11, 9, 10, |  
| 2 20.9+62 44 • ^ .5 | .5+62 | 32 | 2 20.9+62 | 44 | 402 | 7.2 | III?  
844, I 1019, | | 3, 5, |  
| 2 22.6+77 13 • ^ .7 | .7+77 | 1 | 2 22.6  
~~5~~ <sup>77</sup> | 13 | 84 | 7.5 | III 914, | | 3, |

18 ~~33~~

2 23.8+79 17 • ^ .4 | .4+79 | 5 | 2 23.8+79 | 17 | 75 | 4.5 | III 1019, I?  
939, | | .3, 1 |  
| .9 | 9+60 | 0 | 2 22.2+60 | 12 | 487 | 8.1 | I 1019, | 6 |

19 ~~34~~ 2 22.3+~~54~~  
~~53~~ <sup>55</sup> 5. • ^ .2 | .2+54 | 53 | 2 22.3+55 | 5 | 557 | 6.5 | I  
161, II? 877, 939, | | 3, 2, 7, |



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57

~~4~~ 2h

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remarks |

2. ~~35~~.. .6.3 .5.7

10, S 7.1 6.6

~~36~~

[  
[  
[  
[

[  
[  
[  
[

2.3,2,2,2,5,2, ~~37~~...SSSS  
5.8,5,5,5,2,5,5,5,2,5,4,5,8,4,6,4,3,4,4,4,7,4,8,4,6,5,6 .....

7.0 6.0  
10,. SS 7.26.9 6.26.3 ..

6.9 7.0  
10,. 7.1 7.2

[  
[~~38~~

[  
[ 6.8 7.2

10,. S. 7.061 7.46.7 ..

[  
[  
[

~~39~~

.10,10, ..S 7.4,7.1,6.4 7.0,5.9,5.8 ...

57

K Line	F Line	Brightness	Corr. Brightness	Mean. Residuals	No. Remarks
5.8	5.8	5.8	5.8	5.8	5.8
6.3	6.3	6.3	6.3	6.3	6.3
7.1	7.1	7.1	7.1	7.1	7.1
7.2	7.2	7.2	7.2	7.2	7.2
7.061	7.061	7.061	7.061	7.061	7.061
7.467	7.467	7.467	7.467	7.467	7.467
7.4	7.4	7.4	7.4	7.4	7.4
7.1	7.1	7.1	7.1	7.1	7.1
6.4	6.4	6.4	6.4	6.4	6.4
7.0	7.0	7.0	7.0	7.0	7.0
5.9	5.9	5.9	5.9	5.9	5.9
5.8	5.8	5.8	5.8	5.8	5.8

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~~4~~ ~~2h~~

| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |

20

2 23.7 + 55 6

.6 .6 + 54 54 223.7 + 556 561 6.5 II 939, 3

224.4 + 70 30

.5 .5 + 70 18 224.4 + 70 30 182 8.0 II 1019, 3

2 27.8 + 83 11

.8 .8 + 82 59 228.0 + 83 11 59 9.0 II 1019, 2

2 24.9 + 70 52

.9 .9 + 70 40 2 24.9 + 70 52 183 6.5 III 844, 1019, 3, 1

2 25.1 + 61 17

.7 .7 + 615 2 25.1 + 61 17 424 7.0 II 1019, 2

2 25.1 + 55 1

22 .0 + 54 49 2 25.1 + 55 1 567 6.5 I 939, 3

2 26.1 + 70 12

.2 .2 + 70 0 2 26.1 + 70 12 189 8.2 II 1019, 2

2 25.8 + 59 33

.5 .5 + 59 21 2 25.8 + 59 33 505 7.5 I 1019, 939, 5, 4

2 25.8 + 580

.6 .6 + 5748 2 25.8 + 58 0 585 7.5 I 1019, 4

2 25.9 + 66 59

.2 .2 + 6647 2 25.9 + 66 59 219 8.1 I 939, 3

2 27.7 + 75 6

.2 .2 + 44 45 2 27.7 + 75 6 III 75 I 1019, 3

2 27.2 + 67 55

.4 .4 + 67 43 2 27.2 + 67 55 215 7.5 I 844, 1019, 877, 939, 3, 5, 3, 4

2 30.5 + 83 27

.6 .6 + 83 15 2 31.1 + 83 27 60 90 I 1019, 3

2 26.44 + 51 52

.4 .4 + 51 20 2 26.4 + 51 52 588 6.5 I 939, 4,

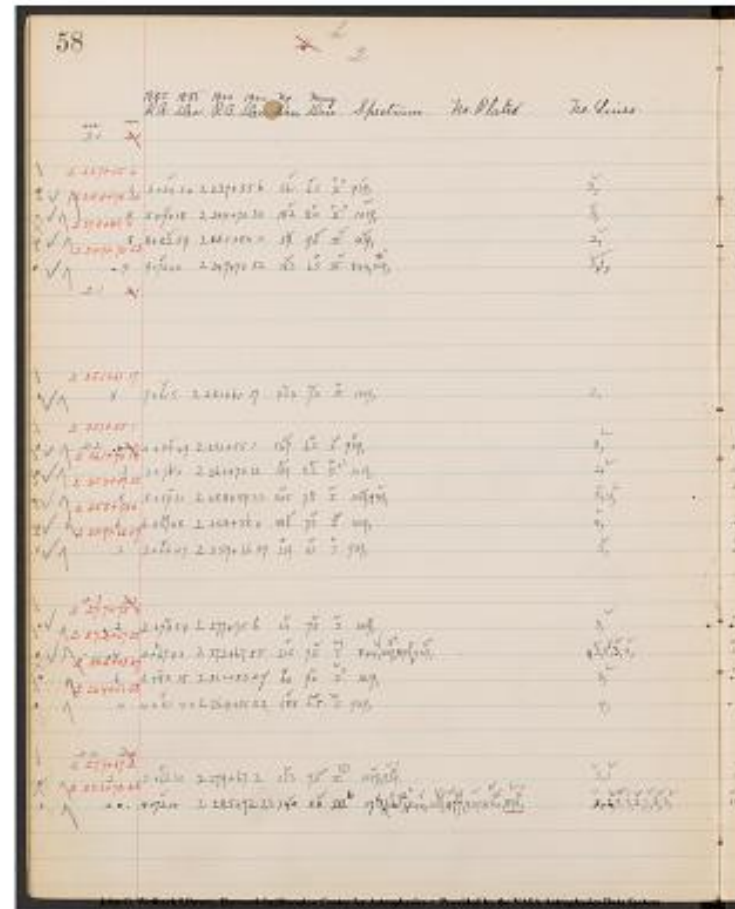
24 ~~44~~

2 27.9 + 67 2

.2 .2 + 66 50 2 27.9 + 67 2 223 7.0 II<sup>a</sup>? 1019, 939<sup>II</sup>? 7, 3, 1

.4 .4 + 72 10 2 28.5 + 72 23 140 5.0 III<sup>a</sup>

173, (161<sup>III</sup>), 844, 1019<sup>III</sup>? 2, 877<sup>III</sup>, 939, 884<sup>III</sup>, 898<sup>II</sup>? 2, 2, 2, 3, 3, 2, 3, 3, 3,



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59

~~4~~ 2h

[6 column table]

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remarks |

~~m~~  
~~45~~

10,	S	6.9	6.3		•
10,	S	6.7	6.5		•
10,	•	6.7	7.6		•
10, •	SS	[6.16.7][7.16.9] [[6.1 6.5][6.5 6.7]		••	

~~46~~

| 10, | • | 7.0 | 6.4 | | • |

•	~~47~~	6.7	6.1		•
10,	•	7.1	6.9		•
5 •	••	6.96.9	6.2, 6.4		••
•	•	7.1	6.4		•
•	•	7.0	6.8		•

~~48~~

•	•	6.8	6.9		•
15[?]10V•10	SS•S	6.7, 6.5, 7.0, 6.3.	6.0, 5.8, 6.3, 6.2		• 569•610
•	•	6.7	7.6		•
•	•	6.8	6.1		•

~~49~~

| 10 • | SS | 7.0, 6.9. | 6.6, 6.7 | 566 • |  
| 10, 10, 10, 10, 10, 10, 20, •• SS•SSS |

~~7~~

| 6.4 6.6 | 7.0 7.2 | 6.0 5.7 6.6 5.9 6.5 | 6.3 5.8 6.7 6.2 6.8 6.0 | | 5.5  
5.7 | 6.5 6.7 | 5.5 5.6 6.1 6.0 5.4 | 5.8 5.7 6.2 6.3 5.7 6.1 | | 4.3 • 555, ••602,  
•• |

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~~4~~ h2

[[11 column table]]

1855 R.A.	1855 Dec.	1900 R.A.	1900 Dec.	No. DM.	Mag. DM.	Spectrum.	No. Plate.	No. Lines.
m 25	<del>m 5.0</del>							

| . 2 29.4 +65 19 .8 | +657 | 2 29.4 +65 19 | 280 | 6.1 | III | 939, | | 1, |

| . 2 29.4 +59 25 26.1 ~~51~~ | 1 | +5913 | 2 29.4 +59 25 | 519 | 6.8 | I, | 173, | | 5 |

2 29.9 +67 38 | .1 | +67 26 | 2 29.9 +67 38 | 217 | 7.7 | II | 1019, | 939, II a | 3, 2, |

2 30.1 +68 52 | .2 | +68 40 | 2 30.1 +68 52 | 177 | 8.0 | II | 1019, | 939, | 3, 3 |

| . 2 29.9 +59 39 .6 | .6 | +59 27 | 2 29.9 +59 39 | 521 | 6.7 | II | 844, | | 5, |

| . 2 32.2 +78 46 .8 | .8 | +78 34 | 2 32.2 +78 46 | 95 | 8.0 | II | 1019, | | 4, |

| 27 ~~52~~ | | | | | | | |

| . 2 33.3 +81 2 .2 | .2 +80 50 | 2 33.3 +81 2 | 86 | 5.9 | III b | 929, III 835, 914, III 844, 1019, III 877, III 939, III 884, 898, | 3, 3, 3, 3, 3, 3, 1, 3, |

| . 2 | 31.1 +62 9 .7 | .7 | +61 57 | 2 31.1 +62 9 | 444 | 6.5 | II | 844, | 1019, 9.39, | 6, 6, |

| 28 ~~53~~ | | | | | | | |

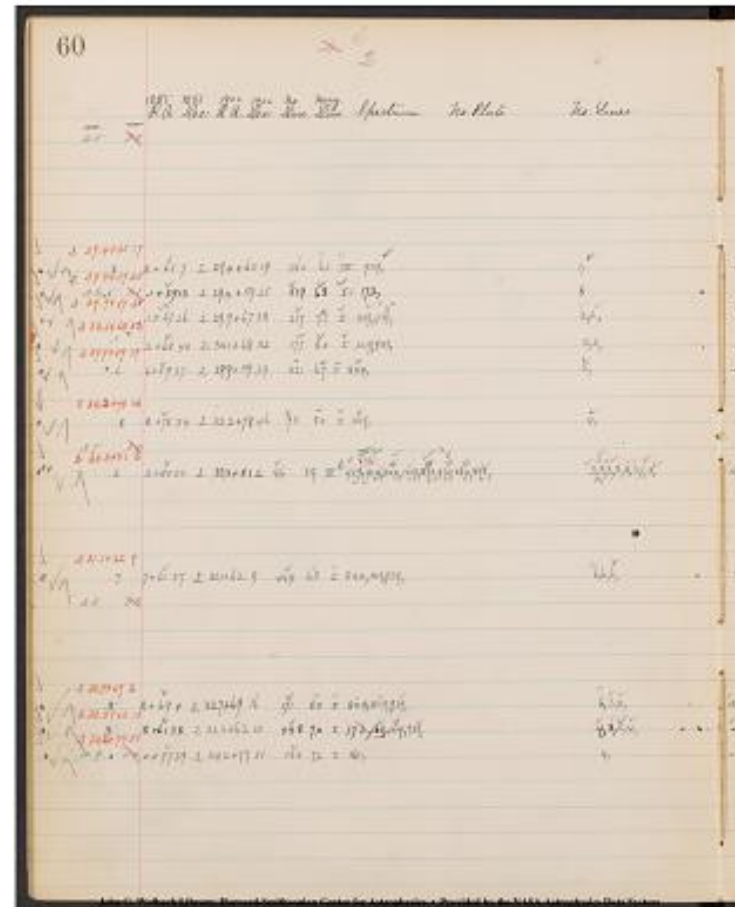
| . 2 | 32.7 +69 16 .8 | .8 | +69 4 | 2 32.7 +69 16 | 171 | 8.0 | II | 844, | 1019, 939, | 6, 3, 4, |

| . 2 32.3 +62 10 .8 | .8 | +61 58 | 2 32.3 +62 10 | 448 | 70 | II | 173, | 161, | 1019, 939, | 4, 3, 5, 4, |

| . 2 | 34.2 +77 51 29.0 ~~54~~ | 0 | +77 39 | 2 34.2 +77 51 | 133 | 7.2 | II | 161, | | 4, |

[[/10 column table]]

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~~4~~<sup>2</sup><sup>[h]</sup>

[6 columned table]

K Line|F Line|Brightness|Corr. Brightness|Mean. Residuals|No.  
Remarks|

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

~~55~~<sup>5</sup><sup>[m]</sup>~~5~~ | | | | |

| S | 6.7 7.0 | 6.4 6.7 | | . |

~~56~~~~5~~ | | | | |

| ~~5~~ | ~~6~~ | 7.0 | 5.5 | | . |

| 10 | . . | 6.9, 7.0 | 6.5, 6.8 | | . 609 |

| . . | 6.9, 6.9 | 6.6, 6.8 | | . |

| S | 7.0 | 5.9 | | . |

| 10, | 7.0 | 7.4 | | . |

~~57~~~~5~~ | | | | |

| 10, 10, 10, 10, 10, . 10, 10, | S, S, S, S, S, S, S, S, | 6.3<sup>5</sup>[[5.9]],

7.1<sup>6</sup>[[6.8]], 6.5<sup>6</sup>[[6.0]], 6.4<sup>6</sup>[[6.1]], 7.0<sup>6</sup>[[6.7]], 6.3<sup>6</sup>[[6.0]], 7.2<sup>6</sup>[[6.7]],

6.6<sup>6</sup>[[6.3]], 7.2<sup>6</sup>[[6.8]], 7.4<sup>6</sup>[[7.1]], 6.7<sup>6</sup>[[6.2]], 7.0<sup>6</sup>[[6.7]], 7.2<sup>6</sup>[[6.9]],

7.1<sup>6</sup>[[6.8]], 6.8<sup>6</sup>[[6.3]], 7.4<sup>6</sup>[[7.1]] | 628 435, . 546, ., 580, ., . 628 |

| 5 . . | S, S, S | 6.5, 6.2, 6.5 | 5.5, 5.6, 6.1 | | . . . |

~~58~~~~5~~ | | | | |

| 10, . . | S . . | 6.9, 6.8, 6.5 | 6.2, 6.5, 6.4 | | . . . |

| . . . | . . . | 6.8, 7.3, 6.8, 7.0 | 5.4, 6.3, 6.2, 6.6 | | . . . |

| . . | 7.0 | 6.7 | | . |

~~59~~~~5~~ | | | | |

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Provided by the NASA Astrophysics Data Systems

61

K Line F Line Brightness Corr. Brightness Mean Residuals No. Remarks

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

~~55~~<sup>5</sup><sup>[m]</sup>~~5~~ | | | | |

| S | 6.7 7.0 | 6.4 6.7 | | . |

~~56~~~~5~~ | | | | |

| ~~5~~ | ~~6~~ | 7.0 | 5.5 | | . |

| 10 | . . | 6.9, 7.0 | 6.5, 6.8 | | . 609 |

| . . | 6.9, 6.9 | 6.6, 6.8 | | . |

| S | 7.0 | 5.9 | | . |

| 10, | 7.0 | 7.4 | | . |

~~57~~~~5~~ | | | | |

| 10, 10, 10, 10, 10, . 10, 10, | S, S, S, S, S, S, S, S, | 6.3<sup>5</sup>[[5.9]],

7.1<sup>6</sup>[[6.8]], 6.5<sup>6</sup>[[6.0]], 6.4<sup>6</sup>[[6.1]], 7.0<sup>6</sup>[[6.7]], 6.3<sup>6</sup>[[6.0]], 7.2<sup>6</sup>[[6.7]],

6.6<sup>6</sup>[[6.3]], 7.2<sup>6</sup>[[6.8]], 7.4<sup>6</sup>[[7.1]], 6.7<sup>6</sup>[[6.2]], 7.0<sup>6</sup>[[6.7]], 7.2<sup>6</sup>[[6.9]],

7.1<sup>6</sup>[[6.8]], 6.8<sup>6</sup>[[6.3]], 7.4<sup>6</sup>[[7.1]] | 628 435, . 546, ., 580, ., . 628 |

| 5 . . | S, S, S | 6.5, 6.2, 6.5 | 5.5, 5.6, 6.1 | | . . . |

~~58~~~~5~~ | | | | |

| 10, . . | S . . | 6.9, 6.8, 6.5 | 6.2, 6.5, 6.4 | | . . . |

| . . . | . . . | 6.8, 7.3, 6.8, 7.0 | 5.4, 6.3, 6.2, 6.6 | | . . . |

| . . | 7.0 | 6.7 | | . |

~~59~~~~5~~ | | | | |

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62

[[~~5~~]]~~h2~~

[[10 column table]]

m.30 [[~~m 0~~]]1855 R.a.|1855 Dec.|1900 R.a.|1900 Dec|No.  
Dec|Mag. Dec.|Spectrum.|No. Plate|No. Lines.|

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

[[~~2 39.2+8528~~]]~~[[check mark]].9].9+8516|241.0+8528|50|8.8|~~1019,| 4,|[[~~check marks~~]]234.7+6156|31[[~~1|2|2+6144|234.7+6156|462~~]]7.0|[[~~1019,|3,~~]][[~~check marks~~]]236.0+7458|.4|4+7446|236.0+7458|117|7.2|

173,844,1019,939,898|7,6,6,6,3,|

[[~~check marks~~]]2

34.8+6110|.40|4+6058|234.8+6110|548|7.1|III|1019,939,939, ^III|2,3,2|

[[~~check marks~~]]2 35.7+5826|32[[~~2].4+5814|235.7+5826|508~~]]7.5|[[~~939,|5,~~]][[~~check marks~~]]2 36.2+6724|.4|.4+6712|236.2+6724|224|6.6|

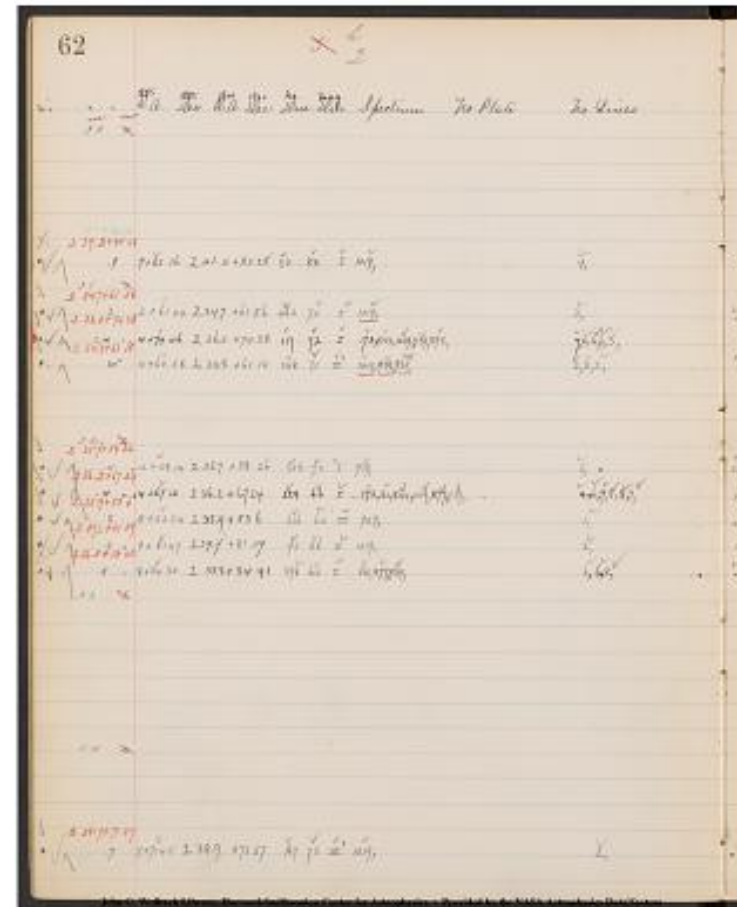
173,161,844,1019,877,939|4,6,7,8,8,9|

[[~~check marks~~]]2 35.9+536|.8|.8+5254|235.9+536|616|6.0|III|939,|1,|[[~~check marks~~]]2 39.6+8159|.9|.9+8147|2 39.4+8159|95|8.6|II|1019|2,|[[~~check marks~~]]2 36.0+5442|.8|.8+5430|2

35.8+5441|598|6.0|161,877,939,| 6,6,8,|

33 [[~~3~~]]34 [[~~4~~]][[~~check marks~~]]2 38.9+7157|.7|.7+7145|2

38.9+7157|167|7.5|III^9|1019,| 2,|



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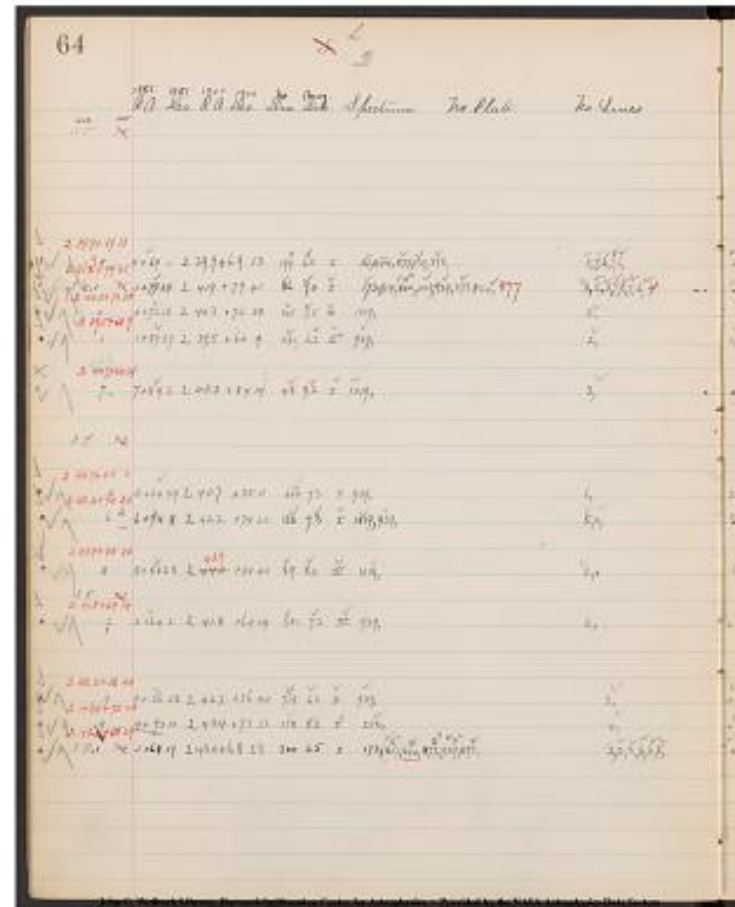




[[~~10~~ columned table]]

1855 R.A. 1855 Dec. 1900 R.A. 1900 Dec. No. DM. Mag.  
DM. Spectrum No. Plate No. Lines  
-----  
35<sup>h</sup>[[~~10~~ columned table]] 10<sup>h</sup>[[~~10~~ columned table]] | | | | | | | | | |  
2 39.9 +69 13|35.9|+69 1|2 39.9|+69  
13|179|6.5||161,844,877,939,898,|5,7,6,7,5,|  
2 41.1[[~~10~~ columned table]]8[[~~10~~ columned table]]9+79 41 3 6.1  
[[~~10~~ columned table]]11[[~~10~~ columned table]]36 .1|+79 29|2 41.9|+79  
41|86|7.0||173,914,844<sup>h</sup>[[~~10~~ columned table]]1019,939,898,954,877|3,5,3,7,8,7,6,4|  
2 40.3 +72 30|36.0|+72 18|2 40.3|+72 30|145|7.5||1019,|2,|  
2 39.5 +60 9|36.1|+59 57|2 39.5|+60 9|541|6.2|IIa|939,|2,|  
X 2 [[~~10~~ columned table]]44.7[[~~10~~ columned table]]45.3 +84  
1[[~~10~~ columned table]]4[[~~10~~ columned table]]5|36.7|+84 2|2 45.3|+84  
[[~~10~~ columned table]]14[[~~10~~ columned table]]15|48|9.2||1019,|3,|  
37<sup>h</sup>[[~~10~~ columned table]]10<sup>h</sup>[[~~10~~ columned table]] | | | | | | | | | |  
2 40.7 +55 11|37.5|+54 59|2 40.7|+55 11|606|7.3||939,|6,|  
2 42.2 +74 20|37.6|+74 8|2 42.2|+74 20|120|7.3||1019,939,|5,4,|  
2 43.9 +80 40|37.8|+80  
28|2|[[~~10~~ columned table]]44.0[[~~10~~ columned table]]43.9|+80 40|89|8.0||III|1019,|2,|  
38[[~~10~~ columned table]]13<sup>h</sup>[[~~10~~ columned table]] | | | | | | | | | |  
2 41.8 +64 14|38.2|+64 2|2 41.8|+64 14|351|7.2||I|939,|2,|  
2 42.2 +56 40|38.9|+56 28|2 42.2|+56 40|718|6.5||I|939,|3,|  
2 43.4 +73 22|38.9|+73 10|2 43.4|+73 22|158|8.2||258,|4,|  
39[[~~10~~ columned table]]14<sup>h</sup>[[~~10~~ columned table]] | | | | | | | | | |  
2 43.1 +53 29|39.1|+68 17|2 43.0|+68  
28|20|6.5||173,(161<sup>h</sup>IIa),,844<sup>h</sup>[[~~10~~ columned table]]I,877<sup>h</sup>[[~~10~~ columned table]]I?,939<sup>h</sup>[[~~10~~ columned table]]IIa,898,|2,2,3,3,  
3,5,|

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65

~~5~~ <sup>h</sup> 2

[[7 coulumned table]]

K Line. | F Line. | Brightness. | Corr. Brightness. | Mean. | Residuals. |  
No. Remarks. |

No.	Remarks	K Line	F Line	Brightness	Corr. Brightness	Mean	Residuals
<del>15</del>	<del>m</del>	<del>6.6</del>	<del>6.5</del>	<del>6.7</del>	<del>5.8</del>	<del>6.3</del>	<del>5.9, 5.8, 6.0, 5.7, 6.2</del>
2	5, 5, 2, 2	s s	s <sup>v</sup>	s	6.6, 6.5, 6.7, 5.8	6.3	5.9, 5.8, 6.0, 5.7, 6.2
5	2, 2, 5, ?	<del>16</del>	<del>m</del>	<del>6.6</del>	<del>6.5</del>	<del>6.7</del>	<del>5.8, 6.0, 5.7, 6.2</del>
6.4	6.5, 6.3	6.0, 6.4, 6.2	6.7	6.8, 6.7, 6.5, 6.7, 6.6, 7.0, 7.0	5.4	7.2, 6.4, 6.5, 6.3	
552	10, 10, 10, 10, 10	6.8	6.7	6.1	6.2	6.14	6.9, 8.0
<del>17</del>	<del>m</del>	<del>6.7</del>	<del>6.1</del>	<del>6.2</del>	<del>6.14</del>	<del>6.9</del>	<del>8.0</del>
2	s s	6.7, 6.8	6.7, 7.0	7.0	7.6	7.0	7.4
<del>18</del>	<del>m</del>	<del>6.7</del>	<del>6.1</del>	<del>6.2</del>	<del>6.14</del>	<del>6.9</del>	<del>8.0</del>
10	s	6.6	6.0	6.3	6.0	6.3	6.0
10, 10, 10, 10, 10	<del>19</del>	<del>m</del>	<del>6.7</del>	<del>6.1</del>	<del>6.2</del>	<del>6.14</del>	<del>6.9</del>
7.2, 6.8, 6.9, 6.8, 6.0, 6.7	6.1, 6.1, 6.0	6.2, 6.1, 5.9, 6.6	5.1, 6.12				

Handwritten manuscript page 65 from the Project PHaEDRA catalog. The page contains a table with columns for K Line, F Line, Brightness, Corr. Brightness, Mean, and Residuals. The table is filled with handwritten data and includes several crossed-out entries. The page number 65 is in the top right corner.

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~~5~~ 2h

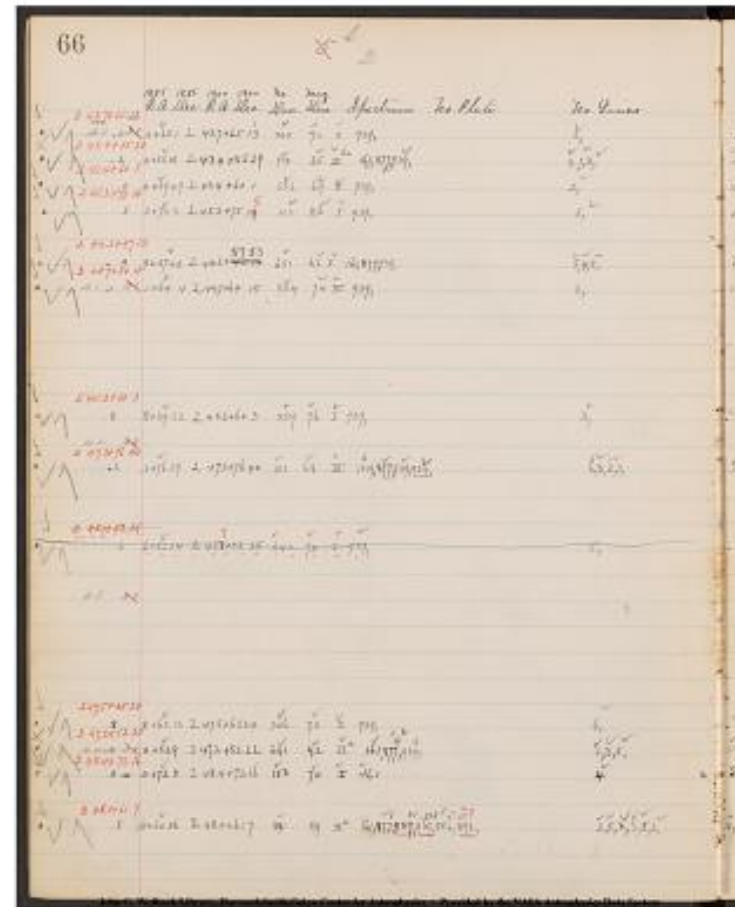
| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |

.0 + 651 | 2 | 43.7 + 65 | 13 | 300 | 7.0 | I | 939, | 5, |  
2.5518 | 2 | 43.4 + 55 | 29 | 714 | 3.5 | III | 161, 877, 939, | 2, 1, 3 |  
243.4+601  
.0|.0+59492|43.4+601|552|6.9||939,|2,  
245.3+7514  
.5|.5+753|245.3+75|1~~4~~<sup>5</sup>|113|8.6||939,|  
5,  
244.2+5753  
.9|.9+57422|44.2+~~4213~~<sup>5753</sup>|651|6.2||1  
61,877,939,|5,4,8,  
244.7+6415  
41.1~~21~~<sup>1</sup>|+644|244.7+64|15|354|7.4||9  
39,|3,  
245.2+603  
.8|.8+5952|245.2+603|559|7.6||939,|3,  
42|~~22~~<sup>245</sup>  
247.3+7640  
.2|.2+7629|2|47.3+7640|101|6.8||1019,877,939,954,|3,3,3,3,  
~~2~~ 45.~~8~~<sup>7+52</sup>  
35~~640~~ 7.0 | 939, 5,

43 ~~23~~

|2|47.5 + 65|24|  
|.8|.8 + 65|13|2|47.5 + 65|24|306|7.0||939,|6,|  
2|47.2 + 52|20|  
44.0|~~24~~<sup>0</sup> + 52|9|2|47.2 +  
52|22|641|4.2||<sup>a</sup>|161,877<sup>III</sup>,939,2,3,5,|  
|2|48.4 + 72|16|  
|0|.0 + 72|5|2|48.4 + 72|16|153|7.0||161|4|

|2|48.0 + 61|7|  
|5|.5 + 60|56|2|48.0 +  
61|7|591|5.9||<sup>a</sup>|161,877<sup>I</sup>,939<sup>11</sup>,939<sup>(2)</sup>,844<sup>I</sup>,898<sup>II?</sup><sup>a</sup>,|2,5,3,3,5,2,  
|



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~~5~~ <sup>h</sup> 2

[7 columned table]

K Line. | F Line. | Brightness. | Corr. Brightness. | Mean. | Residuals. |  
No. Remarks. |

K Line.	F Line.	Brightness.	Corr. Brightness.	Mean.	Residuals.	No. Remarks.
<del>25</del> <sup>m</sup>	<del>6.6</del>	<del>6.3</del>				
10 . 10 . s s	<sup>6.4</sup>	<sup>6.7</sup> <sup>6.5</sup>	<sup>6.9</sup> <sup>5.9</sup>	6.2	<sup>5.2</sup>	5.5 <sup>5.3</sup> 5.7
<sup>5.3</sup> 5.6			49, 599, 605,			
10 . 6.8	6.3					
10 . 6.9	7.2					
2 . . s s	6.5, 6.8, 6.2	5.4, 5.7, 5.7				
10, <del>26</del>	<del>7.0</del>	<sup>7.3</sup>	<sup>6.7</sup>	7.0		
	6.9	6.4				
10, 10, 10, 10, s s s s	<sup>6.7</sup>	<sup>6.9</sup> <sup>6.9</sup>	<sup>7.2</sup> <sup>6.4</sup>	<sup>6.6</sup> <sup>6.4</sup>	<sup>6.6</sup>	
<sup>6.9</sup> 7.1 <sup>6.7</sup>	<sup>7.0</sup> <sup>6.8</sup>	<sup>7.0</sup> <sup>7.0</sup>	<sup>7.2</sup>			
<del>28</del>	<del>6.8</del>	<del>6.1</del>				
	6.8	6.5				
10, 10, 10, <del>29</del>	<del>6.0</del>	<sup>6.0</sup>	<sup>6.3</sup>			
5.5   4.7 <sup>4.7</sup>	5.0 4.8		47, 597, 601			
	7.3	6.8				
10, 10, 10, 10, 10, 10, . s s s s	6.5, 6.8, . 5.9, 7.0, 6.5	5.5, 5.8, .				
5.5, 5.4, 6.1		53 . 600, 616, . 629				

Handwritten manuscript page 67 from the Project PHaEDRA catalog. The page contains a table with the following columns: K Line, F Line, Brightness, Corr. Brightness, Mean, Residuals, and Remarks. The data is handwritten in ink, with some entries crossed out or corrected. The page is numbered 67 in the top right corner.

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~~5~~ 2h

[[11 columned table]]

| 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No. DM. | Mag. DM. |  
Spectrum. | No. Plate. | No. Lines. |

M. ~~M~~  
45 ~~30~~

| 2 49.7 + 64 1

46.0 ~~31~~.0 + 63|50|2 49.7 +  
64|1|370|6.5|III|939,|3,|

2 49.8 + 60 43 .3|.3 + 60|32|2 49.8 + 60|43|597|7.8||939,|4,|

2 53.1 + 80 1 .9|.9 + 79|50|2 53.1 + 80|1|90|8.8||1019,|3,|

2 54.0 + 82 31 .8|.8 + 82|20|2 54.2 +  
82|31|76|8.0||III|929,844^I,1019^III,898^III|2,4,3,3,|

2 52.9 + 79 2 47.1 ~~32~~.1 + 78|51|2 52.8  
+ 79|1|103|5.6|III|914,844,1019^b, 877, 939, 898, 954,|3,2,3,3,3,3,|

48 ~~33~~  
2 51.7 + 59 11 .3|.3 + 58|60|2 51.7 + 59|11|540|7.2||939,|4,|

2 51.9 + 60 53 .4|.4 + 60|42|2 51.9 + 60|53|608|7.2||939, 898,|3,4,|

2 53.4 + 74 45 .6|.6 + 74|34|2 53.4 + 74|45|131|7.2||173, 844, 1019,  
877, 939, 898, 954,|4,4,6,4,8,7,5,|

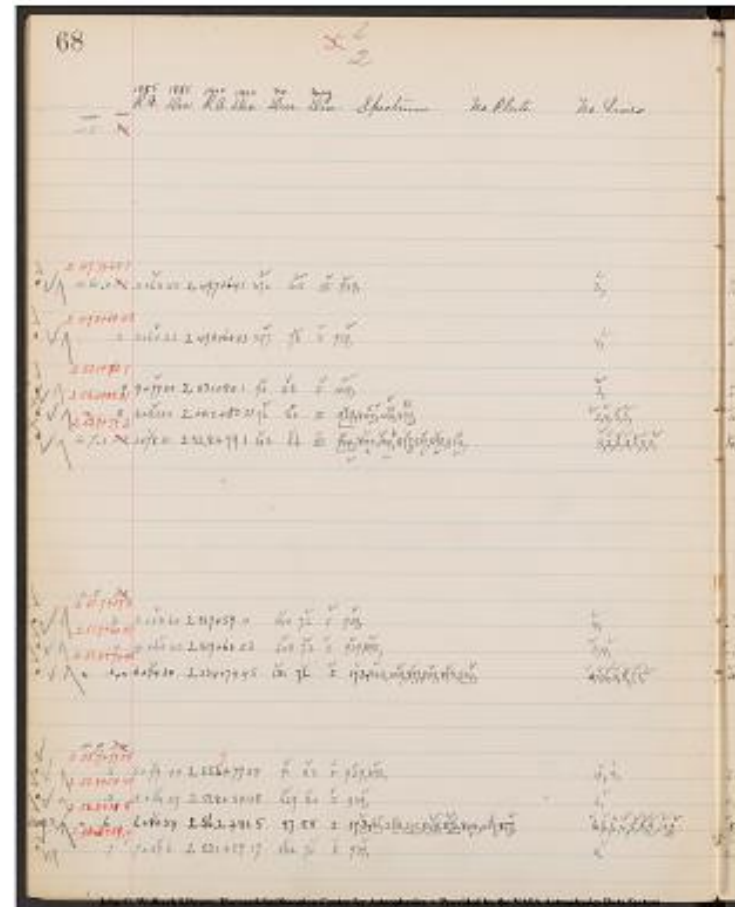
49. ~~34~~  
2 55.7 + 79 55 .5|.5 + 79|44|2 55. ~~6~~.7 +  
79|55|91|8.3||939, 898,|4, 4,|

2 52.8 + 54 48 .5|.5 + 54|37|2 52.8 + 54|48|629|8.0||939,|6,|

2 56.2 + 81 5 No.23 .6|.6 + 80|54|2 56.2 + 81|5|97|5.5||173, 161, 258,  
275, 848, 876, 844, 1019, 877,|6,6,6,4,5,3,7,10,7,|

2 53.1 + 59 17 .7|.7 + 59|6|2 53.1 + 59|17|582|7.0||939,|5,|

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~~5~~ 2h

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remarks |

10,	5,	6.9 7.1	6.6 6.8		.
.	7.1 ~~7.1~~	7.1	6.7		. .
.	6.8	7.3		.	
10, 10, 10,	SSS	6.9, 6.9, 6.3 6.5 6.4 6.6	8.0, 6.3 7.1 7.3 7.4 7.6		.
10, 10, 10, 10, 10, 10,	~~37~~	SSSSSSS	6.2		
 6.5 6.3 6.6 6.2 6.5 6.7 7.0 6.0 6.4 6.0 6.6 5.8 6.3 | 6.5 6.8 6.3 6.6 6.6 6.9  
 6.7 7.0 6.6 7.0 6.6 7.2 6.6 7.1 | | ..573.... |

~~38~~

| . | 7.0 | 6.5 | | . |  
 | . | S | 6.8, 6.8 | 6.4, 6.4 | | . |  
 | 10, .. | . S.SSS | 7.2, 6.8, 6.5, 6.9, 6.4, 6.4, 6.3 | 6.4 6.4, 6.5, 6.5, 6.6, 6.6,  
 6.7 | | ..... |

~~39~~

| . | . | 6.7, 6.7 | 7.4, 7.4 | | . |  
 | 10, | . | 6.9 | 6.3 | | ~~63~~ | . |  
 | 5, 5, 5, 10, 2, 2, 2 | . S.SSS | 6.0, 6.2, 6.5, 6.4, 6.5, 6.9, 5.7, 5.4 58 58 | 5.8, 6.4,  
 6.7, 6.5, 6.6, 7.1, 5.9, 6.0, 6.0 | ..... |  
 | 2, | . | 6.6 | 6.1 | | . |

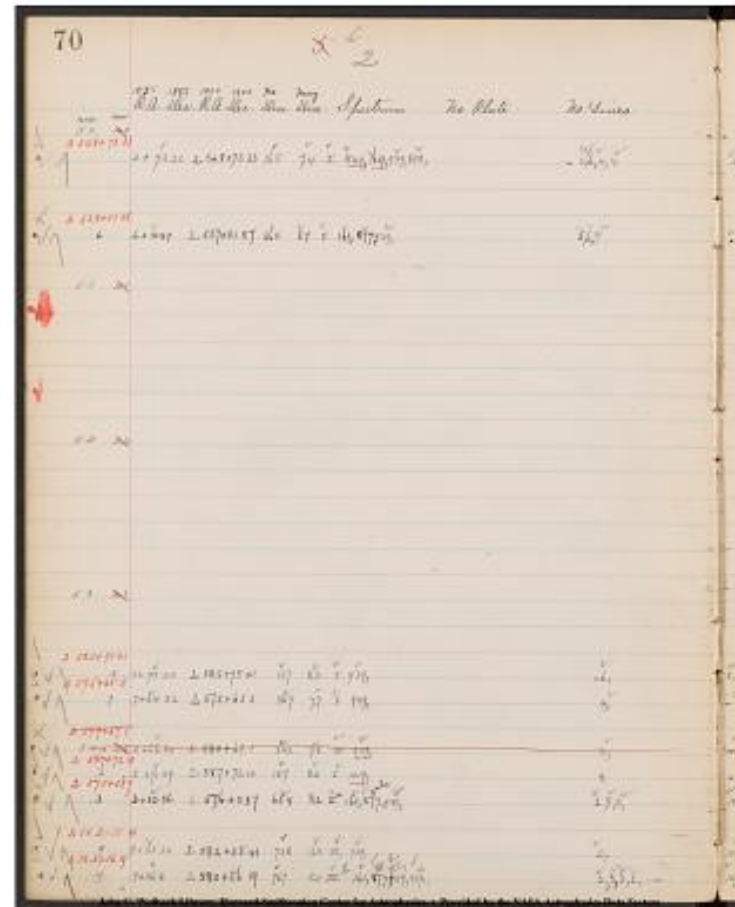
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~~5~~ 2h

[10 columned table]

1855 R.A.	1855 Dec.	1900 R.A.	1900 Dec.	No. DM.	Mag. DM.	Spectrum.	No. Plate.	No. Lines.
50. <sup>h</sup> 40 <sup>m</sup>	<del>40<sup>m</sup></del>							
2 54.8 +73 33	2 +73 22	2 54.8 +73 33	165	7.4	I			
844, 1019	939, 898	5, 6, 4, 4						
X. <sup>h</sup> 2 53.8 +51 58	.6   +51 47	2 53.7   +51 57	665	5.7	I			
161, 877, 939	5, 6, 9							
51 <del>41</del>								
52 <del>42</del>								
53 <del>43</del>								
2 58.5 +75 41	.5   +75 30	2 58.5   +75 41	127	8.3	I			
939, 161								
2 57.5 +65 3	.7   +64 52	2 57.5   +65 3	367	7.7	I			
939, 14								
X. <sup>h</sup> 2 57.9 +67 1	54 .0 44   .0	+66 50   2 58.0   +67 1						
242   7.8   III	939, 3							
2 58.7 +72 10	.2   +71 59	2 58.7   +72 10	187	8.0	I			
1019, 4								
X. <sup>h</sup> 2 57.5 +53 7	.3   +52 56	2 57.6   +53 7	654	3.2	II a			
161, 877 <sup>h</sup> III abc	939, 2, 5, 3							
2 58.2 +55 41	.9   +55 30	2 58.2   +55 41	738	6.3	III			
939, 2								
2 58.0 +56 19	.7   +56 8	2 58.0   +56 19	767	5.0	III b			
161, 877 <sup>h</sup> III b	939? III	898 <sup>h</sup> III	2, 3, 3, 2					



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~~5~~<sup>2</sup>  
 [6 columned table]  
 K Line|F Line|Brightness|Corr. Brightness|Mean. Residuals|No.  
 Remarks |  
 ---|---|---|---|---|---|  
~~44~~  
 10, 5...|S S...|6.8, 6.8, 6.9, 6.7|6.4, 6.8, 7.1, 6.9| |...|  
 ...|.. S|6.2, 6.4, 5.6|4.9, 5.1, 4.9| |...|  
~~46~~ | | | | |  
~~47~~ | | | | |  
~~48~~ | | | | |  
 5, |.6.7|7.0| |. |  
 ..|7.0|6.7| |. |  
~~10~~, |~~49~~|~~S~~|6.7 7.0|6.5 6.8|  
 ..|7.0|6.9| |. |  
 10<sup>^</sup>[?] 2, 5, 10, |. S S|5.2, 5.4, 4.1|3.9, 4.1, 3.4| |48, 598, 604,|  
 10, |.6.8 7.0|6.2 6.4| |. |  
 10, 10, 10, 10|. S S|.6.6 6.4 6.1 6.9 6.7 6.3|5.4 5.2 5.5 5.7 5.5 5.7| |50  
 . 607, .|

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~~5~~ 2h

| 258.9 + 63 44 | 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No.  
Dm. | Mag. Dm. | Spectrum | No. Plate | No. Lines |

|55|.2~~50~~.2 + 63|30|2|58.9 +  
63|41|390|6.0||877,939,844,898, 161|6,7,6,9,5,|

|3|1.6 + 79|47|  
|.4|.4 + 79|36|~~3~~1.6 +  
79|47|94|7.3|||7|844,1019^d7, 877, 939,|6,8,7,5,6,7,9,9,|

56 ~~51~~  
3|1.1 + 74|1|  
|no.24|.3|.3 + 73|50|3|1.0 + 74|1|168|5.2||173,  
161,258,217,844,1019^d7, 877, 939,|6,8,7,5,6,7,9,9,|

|8|0.7 + 620|  
57.1|~~52~~.1 + 61|49|30.7 +  
620|~~6~~525|6.5||^7|939,898,|3,3,|

|3|0.8+5638|  
|.4|.4+56|27|30.8+56|38|778|7.0||^9|939,|

|3|0.9+5150|  
|.7|.7+51|39|30.9+5150|681|6.8|||939,|

|.3|.3+78|19|3.4  
~~1~~+7830|109|7.0||161,|258,|844,|1019,|877,|939,|898,|954  
|

|.7|.7+7340|3.3 ~~4~~+4351|171|9.0|||954,|

|.7|.7+6420|325+6431|375|7.0|||939,|898|||

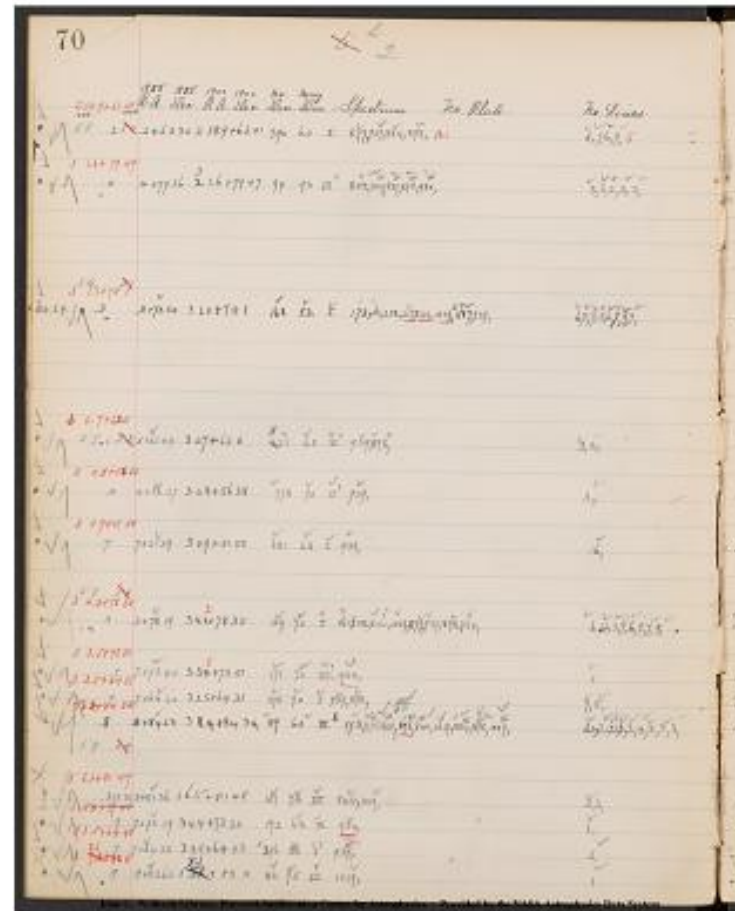
|.8|.8+8423|3|8.4+8434|59|6.0|||173,|(275)|929,|875,|844,|1019,|884,|8  
98,|1054,|

|.373|303+81|36|36.5+8148|107|7.4|||844,|1019,|

|.7|.7+7319|34.3+7330|172|6.8|||954,|

|.7|.7+6432|33.5+6443|376|8.0|||939,|

|9|.9+8260|3 ~~8~~.6+83 11|82|7.5|||1019,|



~~6~~ ~~3h~~

[6 Column Table]

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remarks |

|..2..|~~35~~...5,5.||6.6,6.1,6.8,5.9  
 6.5||5.7,5.8,5.2,5.6|||.....  
 |10,10,10,10,10||,5,5.,5,5|6.8 6.4 6.4 6.5 6.6 |6.9 6.9 7.1 7.2 7.5||.....  
 ||7.1 6.5 6.6 6.8 6.8|7.2 7.0 7.3 7.5 7.7|  
 .1,2..?....|.....5,5,5,5|5.5,5.2,5.9,6.1,5.5,5.0,5.3,4.7|4.7,4.8,5.5,5.5,5.1,5.0,  
 4.9,4.9||.....  
 10.,|~~5~~6.8|6.2||..  
 10.,|5|6.6|5.9||..  
 10,10.,5,10,5,8,5|...5,5,5,5,5,5|7.0,7.3,6.5,6.0,5.9,6.4,5.9,6.4,5.7,|6.9,7.2  
 ,6.4,6.3,6.2,6.4,6.9,6.4||.....  
 .|5|6.8,7.0|7.2,7.4||..  
 .2^7|5|6.5,6.3|6.2,6.0||..  
 ||6.6,6.8,6.0,6.5,6.8,6.5,5.9,5.5,6.1,4.9,5.4|6.9,7.4,7.3,7.6,7.4,6.6,6.6  
 ,5.2,6.2,6.7  
 10,10,10,10,10,20,12,10,12,10....5,5,5,5,5,5|6.9 7.0 6.2 6.8 6.3 5.8 6.4  
 5.3 4.8|7.2 7.6 7.6 7.7 7.0 6.9 5.5 6.6 7.1||45.....589.635.  
~~99~~ ~~99~~  
 ||6.8 6.8||7.1 7.5  
 10,10.,|5,5|7.0 7.0|7.3 7.7||..  
 ||6.7|7.1  
 .|5|7.0|7.4||..  
 .|6.9|6.6||..  
 ||6.8|7.7  
 .|5|7.1|8.0||..

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~~6~~ ~~3h~~

| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |

|.1 83 |30| |38.8 + 83| |41| |79| |8.2| || |1019,| |2|

3 4.5 + 51~~51~~ ~~49~~  
|.3 + 51| |38| |34.5 + 51| |49| |689| |7.3| || |939'| |3,|

3 7.7 + 7722  
|.2 + 77| |11| |37.6 + 7722| |115| |6.2| || |173,161,214,258,1019,877,939|  
|6,7,7,7,8,9,10|

3 7.0 + 69 37  
|.8 + 69| |26| |370 + 69| |37| |203| |7.7| || |939,898,| |6,4|

3 7.5 + 60 45  
|.9 + 60| |35| |37.5 + 60| |45| |651| |8.0| || |898,| |3,|

3 8.9 + 76 41  
|.5 + 76| |31| |38.9 + 76| |41| |120| |8.2| || |939,954,| |2,2,|

3 8.5 + 74 51  
|.6 + 74| ~~14~~ ~~38.6 + 74~~ |52| |144| |7.4|  
|| |11,939,898,954,| |3,5,6,4,|

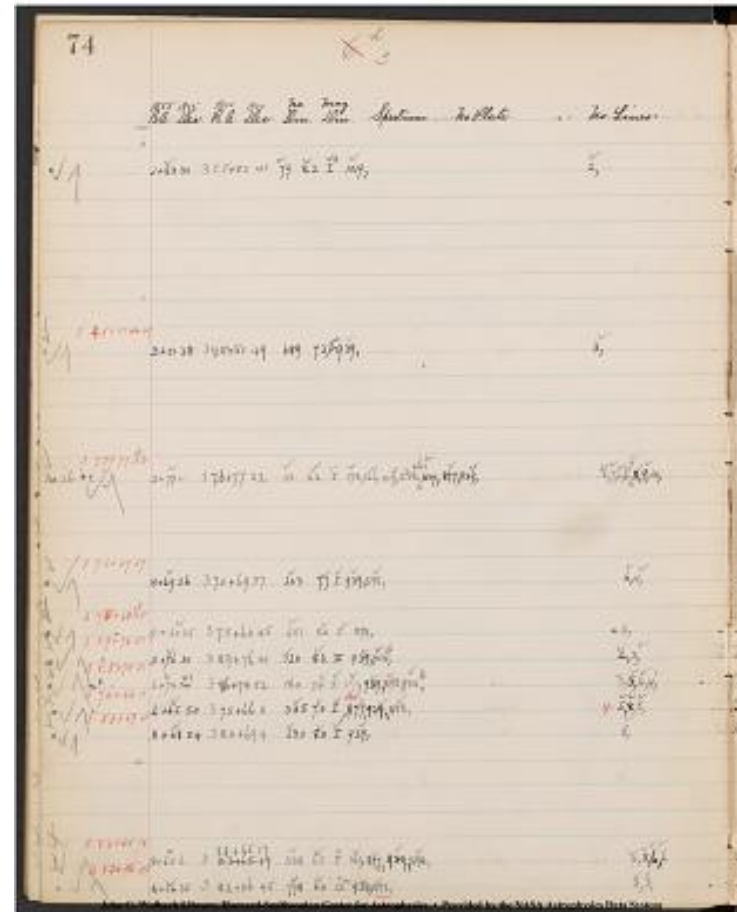
3 7.4 + 66 0  
|.6 + 65| |50| |37.5 + 66| |0| |335| |7.0| || |877,939,898,| |4,5,8,5|

3 8.0 + 69 4  
|.8 + 68| |54| |38.0 + 69| |4| |230| |8.0| || |939,| |5,|

3 8.6 + 65 16  
|.8 + 65| |6| |38.8 + 6517| |338| |6.5| || |161,877,939,898,| |4,5,6,6|

3 8.9 + 56 45  
|.8 + 56| |35| |38.2 + 56| |45| |798| |6.0| || |939,898, 3,3|

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~~6~~<sup>3</sup>~~h~~

[[6 columned table]]

K Line|F Line|Brightness|Corr. Brightness|Mean. Residuals|No.  
Remarks|

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

| 10, |. | 6.7 | 7.7 | | |.

|. |. | 6.9 | 6.2 | | |.

| 10, 5, 5, 5, 10, 5, 5, 5 | . . . . , S, S, S, S | 6.7, 5.5, 6.7, 6.5, 6.2, 5.4, 5.8,  
4.8, | 6.1, 5.3, 6.3, 6.3, 6.0, 5.6, 5.6, 5.2 | | | . . . . .

|. |. |. | 6.6, 6.7 | 6.5, 6.6 |. |. |.  
10, 10 |. |. | 7.0, 6.9, 6.7, 7.0 | 7.3, 7.3, 7.6 |.  
.... |. |. | S<sup>7</sup> | 7.1, 6.6, 6.5, 6.5 | 6.7, 6.8, 6.7, 6.9 |. |. | 648  
...2 |. |. | S<sup>7</sup> | 7.1, 6.7, 6.3, 6.6 | 5.7, 5.9, 6.1, 6.4 |. |. |  
10, |. |. | 7.0 | 6.9 |.  
~~9~~  
.... |. |. | S | 7.0, 7.0, 6.4, 6.5 | 6.1, 6.1, 6.1, 6.2 |. |. |  
... | S, S<sup>7</sup> | 6.3, 6.6 | 5.7, 6.0 |. |. | 608, 620

Handwritten astronomical catalog page 75 from Project PHaEDRA. The page contains a table with columns for K Line, F Line, Brightness, Corr. Brightness, Mean. Residuals, and No. Remarks. The handwriting is in cursive and includes various numerical values and symbols. There are also some red ink markings and a large 'X' in the middle of the page.

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76

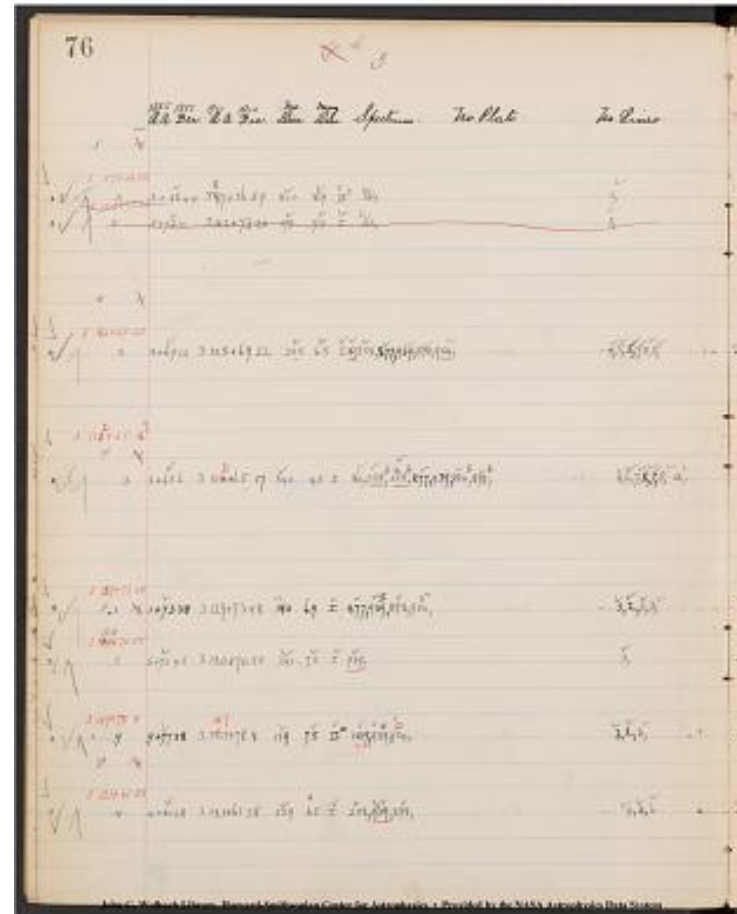
~~6~~ h 3

[[10 Columned Table]]

| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |  
|---|---|---|---|---|---|

5 ~~10~~ <sup>^</sup>[m]

<sup>^</sup>[3 8.7+56 54] .3 | 3+5644<sup>^</sup>[[ ]] 3 ~~9~~ 87  
+ 5654 800 8.9 V II V 161, V  
.<sup>^</sup> ~~3~~ 10.2 + 7320 ~~5~~ .5 + 7310 V 310.2 +  
7320 179 V 7.4 V I V 161, V  
6 ~~11~~ <sup>^</sup>[[ ]]  
3 10.6 + 6.9 22  
.3 .3 + 6912 3 10.5 + 6922 205 V 6.5 V I V 16, V 258, V 877, V 939, V  
898, V 954, V 4, 5, 5, 7, 8, 5,  
3 11 x 3 + 65 1 ~~6~~ 7  
7 ~~12~~ <sup>^</sup>[[ ]]  
.2 .2 + 656 3 11. ~~3~~ 2 + 65 17 340 4.5  
I 161, 258, B 258, 2 B 877, 439, 884, B, 898, B 8, 6, 7, 8, 7, 9,  
12,  
.3 12.9 + 73 48 8.1 ~~13~~ .1 + 7338 V  
312.9 + 7348 180 6.9 I 877, 939, II 898, 954, II a 3, 2, 5, 3,  
3 ~~12.7~~ 13.0 + 70 55  
.5 .5 + 7045 313.0 + 7055 241 V 7.5 V I V 939, V 3,  
3 14.7 + 78 8  
.9 .9 + 7758 3 ~~15.1~~ 14.7 + 788 119  
7.5 II a 1019, 939, 954, I 3, 2, 3, 10,  
.3 13.1 + 6136  
.4 .4 + 6128 3 13.1 + 6138 559 6.5 I 258, 939, 898, 4, 3, 6 VV  
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~~6~~<sup>h</sup>3

[6 columned table]  
 K Line|F Line|Brightness|Corr. Brightness|Mean. Residuals|No.  
 Remarks|  
~~15~~  
 . | . | 6.9 | 5.8 | | . |

~~. | . | 6.5 | 6.0 | | . |~~

~~16~~

| . . . . . | . . . . ., S . | 6.6 6.8, 6.8, 6.1, 6.3, 5.9 | 5.9, 6.1, 6.0, 6.2, 6.0 | |  
 . . . . . |

~~17~~

| . . . . . | . . . . ., S ., S | 5.5, 6.1, 5.9, 5.7, 5.0, 5.9, 5.0 | 4.6, 5.2, 5.0,  
 4.8, 4.7, 4.4, 4.7 | | . 54, 57, . . 638 |

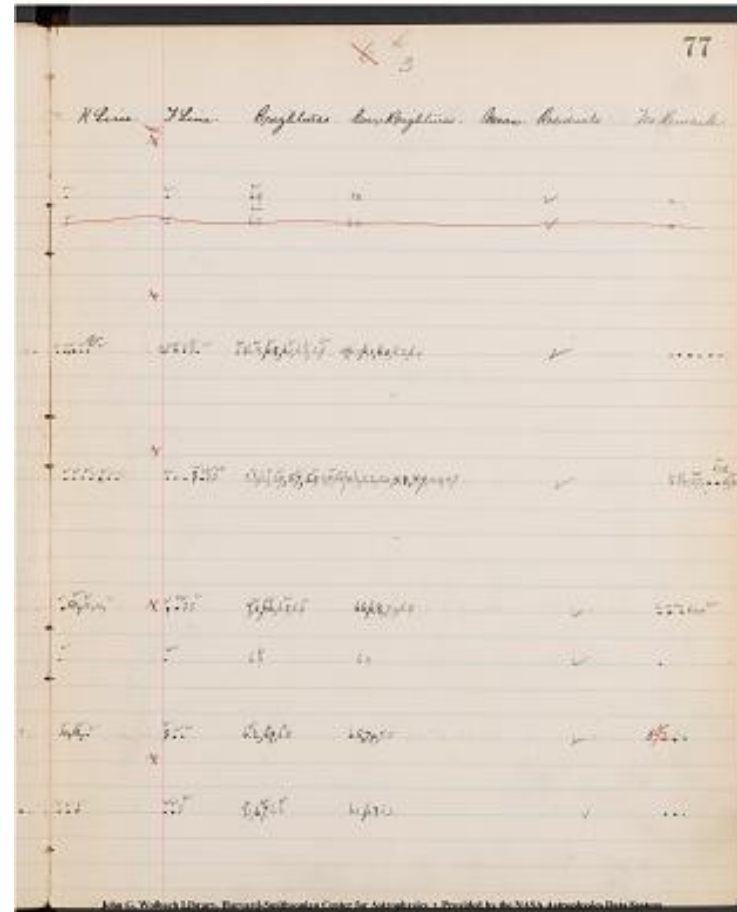
| .10, 10, 10, ~~18~~  
 through)|.ss|7.0, 6.6, 6.8, 6.4|6.6, 6.8, 7.0, 6.8| |...644|

| . | . | 6.9 | 6.9 | | . |

| 10, 10, . | s. | 6.2, 6.9, 6.8 | 6.5, 7.4, 7.5 | 572. |

~~19~~

| ... | .s | 7.1, 6.7, 6.6 | 6.1, 6.3, 6.2 | | ... |



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~~6~~ ~~3h~~

[10 columned table]

| 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No. DM. | Mag. DM.  
Spectrum. | No. Plate. | No Lines. |

--- | --- | --- | --- | --- | --- | --- | --- | --- | --- |  
^ 3 13.7 +62 23 10 .0 ~~20~~ | .0 | +62 13

3 13.7 | +62 23 | 549 | 7.5 | II a | 939, | 2, |  
^ 3 15.2 +71 20 | .7 | +71 10 | 3 15.2 | +71 20 | 197 | 7.6 | I |

939, 898, | 4, 6, |  
11 ~~21~~ | | | | | | | | | |  
^ 3 15.1 +60 56 .5 | .5 | +60 46 | 3 15.1 | +60 56 | 671 | 8.0 | I | 898, | 3,

^ 3 16.3 +71 51 .7 | .7 | +71 41 | 3 16.3 | +71 51 | 198 | 7.2 | II ? | 939,  
898^954, | 2, 5, 4, |

12 ~~22~~ | | | | | | | | | |  
^ 3 16.1 +64 14 .2 | .2 | +64 4 | 3 16.0 | +64 14 | 391 | 6.0 | III | 939, | 1,

^ 3 18.5 +77 40 .8 | .8 | +77 30 | 3 18.5 | +77 40 | 123 | 7.1 | III | 1019, | 3,

^ 3 18.5 +74 54 .4 | .4 | +74 44 | 3 18.4 | +74 54 | 151 | 7.9 | I | 939,  
954, | 4, 4, |

14 ~~24~~ | | | | | | | | | |  
^ 3 20.1 +76 16 .7 | .7 | +76 6 | 3 20.1 | +76 16 | 125 | 8.6 | I | 939, 954,  
2, 4 |

^ .9 | .8 | +82 52 | 3 23.4 | +83 2 | 90 | 8.2 | I | 1019, 898, 1057^I ? ,  
.6, 3, 3, . . |

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[[~~6~~]]<sup>[[h]]</sup> 3 79  
 [6 column table]  
 | K Line | F Line | Brightness | Cor. Brightness | Mean Residuals | No.  
 Residuals |  
 |---|---|---|---|---|---|  
 10, [[~~25~~]]<sup>[[m]]</sup>[[~~7.0~~]]<sup>[[6.6]]</sup>603<sup>[[~~6.9~~]]</sup>  
 .<sup>[[10]]</sup>10<sup>[[~~6.9~~]]</sup>.<sup>[[S]]</sup>S<sup>[[~~6.9~~]]</sup>.<sup>[[6.9]]</sup>6.9||..|  
 [[~~26~~]]<sup>[[~~7.0~~]]</sup>7.0<sup>[[6.6]]</sup>6.6||..|  
 10<sup>[[~~6.9~~]]</sup>10<sup>[[~~6.9~~]]</sup>10<sup>[[~~6.9~~]]</sup>.<sup>[[S]]</sup>S<sup>[[~~6.9~~]]</sup>.<sup>[[6.8]]</sup>6.8<sup>[[6.5]]</sup>6.5<sup>[[6.9]]</sup>6.9,6.6,6.8||...|  
 [[~~27~~]]<sup>[[~~7.1~~]]</sup>7.1<sup>[[6.8]]</sup>6.8<sup>[[6.5]]</sup>6.5||..|  
 10<sup>[[~~6.9~~]]</sup>.<sup>[[S]]</sup>S<sup>[[~~7.2~~]]</sup>7.2<sup>[[7.0]]</sup>7.5<sup>[[7.3]]</sup>7.3||..|  
 [[~~28~~]]<sup>[[~~7.0~~]]</sup>7.0<sup>[[6.7]]</sup>6.7<sup>[[7.2]]</sup>7.2,7.1||..|  
 [[~~29~~]]<sup>[[~~6.9~~]]</sup>6.9<sup>[[6.7]]</sup>6.7<sup>[[7.2]]</sup>7.2,7.2||..|  
 10...|S...|6.5,6.5,6.5|7.3,7.6,7.6||...|  
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~~46~~  
3

K Line	F Line	Brightness	Cor. Brightness	Mean Residuals	No. Residuals
10	25	7.0	6.6	603	6.9
10	26	7.0	6.6	603	6.9
10	27	7.1	6.8	603	6.5
10	28	7.0	6.7	603	7.2
10	29	6.9	6.7	603	7.2
10	30	6.5	6.5	603	7.3
10	31	6.5	6.5	603	7.3
10	32	6.5	6.5	603	7.3
10	33	6.5	6.5	603	7.3
10	34	6.5	6.5	603	7.3
10	35	6.5	6.5	603	7.3
10	36	6.5	6.5	603	7.3
10	37	6.5	6.5	603	7.3
10	38	6.5	6.5	603	7.3
10	39	6.5	6.5	603	7.3
10	40	6.5	6.5	603	7.3
10	41	6.5	6.5	603	7.3
10	42	6.5	6.5	603	7.3
10	43	6.5	6.5	603	7.3
10	44	6.5	6.5	603	7.3
10	45	6.5	6.5	603	7.3
10	46	6.5	6.5	603	7.3
10	47	6.5	6.5	603	7.3
10	48	6.5	6.5	603	7.3
10	49	6.5	6.5	603	7.3
10	50	6.5	6.5	603	7.3

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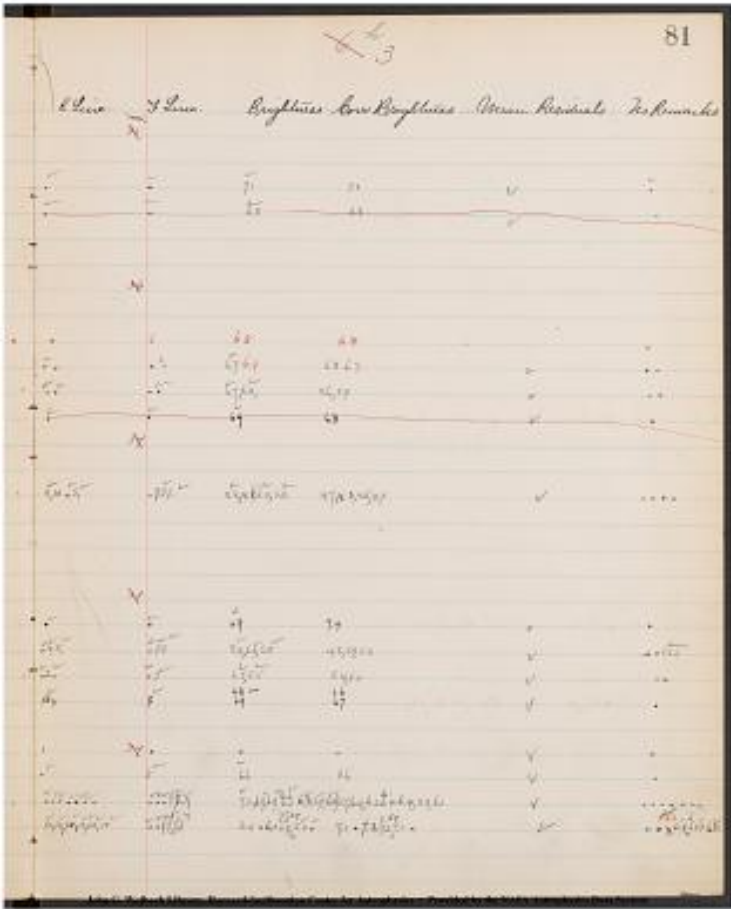
~~6~~ ~~3h~~

| 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No. DM | Mag. DM |  
Spectrum | No. Plate | No. Lines |  
M

15~~3~~3~~0~~  
3 19.7+697  
.4|.4+6857|319.7+697|250|7.3||898,  
3 20.0+7131  
.4|.4+7121|319.9+7131|201|6.5||898,  
16| ~~31~~  
5+7121|320.8+686|270|8.4||898  
320.8+686  
.6|.6+6756|320.8+686|270|8.4||954,939  
320.2+5954  
.6|.6+5944|20.2+5954|6576.7||258,898,  
[[~~320.9168~~]]12  
.7|[[~~7+682~~]]320.9+6812|252|8.8||939,[[~~7~~]]  
14|[[~~32~~]]  
321.0+5936  
.4|.4+5926|321.0+5936|660|4.5||258,939,884,898,  
18|[[~~33~~]]  
324.44+786  
.5|.5+7756|324.4+786|126|8.5||939,  
322.0+5832  
.4|.4+5822|321.9+5832|607|5.0||258,884,898,  
322.2+592  
.6|.6+674|322.7+6714|273|7.5||939,  
322.4+557  
19.0[[~~34~~]]0+5457|322.4+557|684|4.8||258,  
323.0+655[?]  
.0|.0+6548|323.0+6558|347|8.0||954,  
324.2+730  
no.29|.4|.4+7250|3242+730|178|6.7||161,258,217,877,939,884,898,  
.5+8611|333. [[~~7~~]]^5+86[[~~21~~]]  
[[~~1651~~]]6.0||173,275,844,884,898,1057,

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[[[~~strickethrough~~]]6[[~~strickethrough~~]]^[[h]]3 81  
[6 column table]]  
[K Line | F Line | Brightness | Cor. Brightness | Mean Residuals | No.  
Residuals]  
[---|---|---|---|---|]  
[[~~strickethrough~~]]35^[[m]][[~~strickethrough~~]]  
.^[[ ]].^[[ ]].7.1^[[ ]].7.0|. .^[[ ]]  
[[~~strickethrough~~]]. .^[[ ]].^[[ ]].6.8^[[ ]].6.8|. .[[~~strickethrough~~]]  
[[~~strickethrough~~]]36[[~~strickethrough~~]]  
|. .[[~~strickethrough~~]]6.8|6.8|. .|  
.^[[ ]]. . .^[[ ]].6.7^[[ ]].6.9|6.8.6.3||. .|  
.^[[ ]].^[[ ]]. . .^[[ ]].6.7^[[ ]].6.4^[[ ]].5.6.5.9||. .|  
[[~~strickethrough~~]]. .^[[ ]].^[[ ]].6.9^[[ ]].6.8|. .[[~~strickethrough~~]]  
[[~~strickethrough~~]]37[[~~strickethrough~~]]  
8^[[ ]].10.^[[ ]].5.^[[ ]].SS^[[ ]].S|5.8^[[ ]].4.8^[[ ]].6.3^[[ ]].5.2^[[ ]].4.7.4.3.4.6.4.7  
||...|  
[[~~strickethrough~~]]38[[~~strickethrough~~]]  
.^[[ ]].^[[ ]].6.9^[[ ]].7.4|. .|  
.^[[ ]].10^[[ ]].5^[[ ]]. .^[[ ]].S^[[ ]].S^[[ ]].5.9^[[ ]].6.6^[[ ]].5.8^[[ ]].4.8.5.9.5.3||. .622^[[ ]]  
[[~~strickethrough~~]]  
.^[[ ]].2.^[[ ]]. .^[[ ]].S^[[ ]].6.5^[[ ]].6.5^[[ ]].5.4.6.0||. .|  
10^[[ ]].|S^[[ ]].6.9^[[ ]].6.8||6.7^[[ ]].6.6||. .|  
1[[~~strickethrough~~]]39[[~~strickethrough~~]].|. .|. .|  
.^[[ ]].S^[[ ]].6.6^[[ ]].6.6|. .|  
.^[[ ]].^[[ ]].^[[ ]].^[[ ]].^[[ ]].^[[ ]].^[[ ]].^[[ ]].^[[ ]].^[[ ]].S^[[ ]].S^[[ ]].^[[ ]].S|7.2^[[ ]].6.9^[[ ]].6.  
9^[[ ]].6.9^[[ ]].6.6^[[ ]].6.3^[[ ]].6.9^[[ ]].6.0^[[ ]].6.7.6.4.6.2.6.4^[[ ]].6.1|6.4.5.8.6.1  
|. .|  
10^[[ ]].10^[[ ]].10^[[ ]].10^[[ ]]. .10^[[ ]].10^[[ ]].^[[ ]].^[[ ]].S^[[ ]].S^[[ ]].S^[[ ]].[[~~strickethrough~~]][[~~strickethrough~~]]  
S^[[ ]].S^[[ ]].7[[ ]].6.4.6.1.6.7^[[ ]].6.6^[[ ]]. .[[~~strickethrough~~]]5.4.5.4^[[ ]].^[[ ]].7.1.7.2  
7.2^[[ ]].7.1[[ ]].[[~~strickethrough~~]]6.9.7.1|. .|[[~~strickethrough~~]]563[[~~strickethrough~~]].[[~~strickethrough~~]]6  
18^[[ ]].[[~~strickethrough~~]]639^[[ ]].681^[[ ]]  
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\* Provided by the NASA Astrophysics Data System

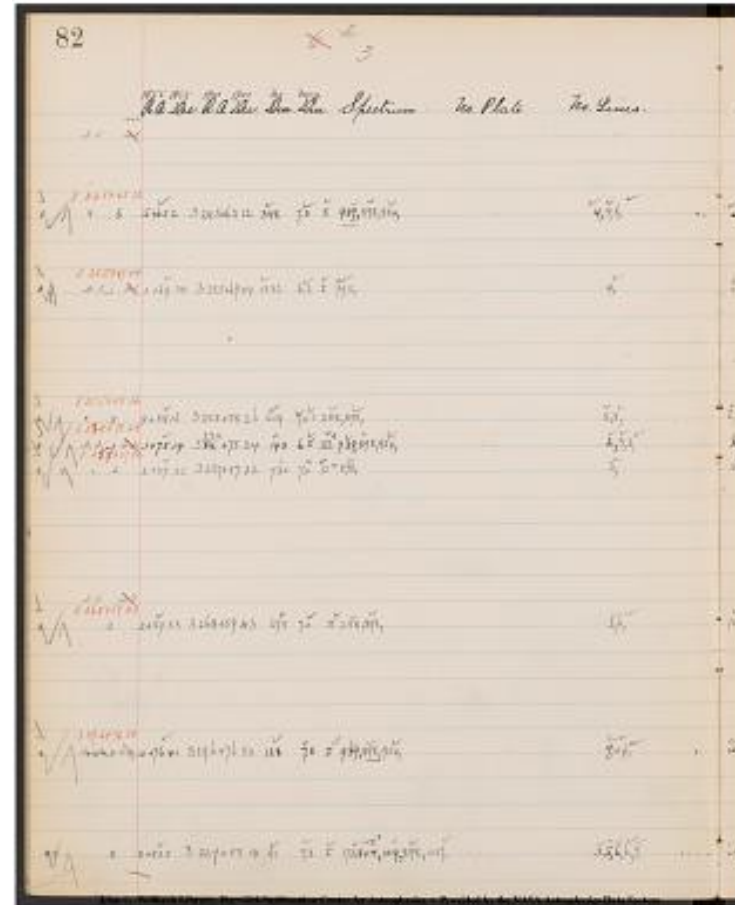


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~~6~~ ~~3h~~

[[10 column table]]

	1855 R.A.	1855 Dec.	1900 R.A.	1900 Dec.	No. DM.	Mag.	DM.	Spectrum.	No. Plate.	No. Lines.	
20	<del>3</del> 24.5	+65 12	.5	.5	+65 2	3	24.5	+65 12	348	7.0	I
	<u>939</u>	<u>898</u>	<u>954</u>		4	4	6				
	<del>3</del> 25.5	+69 44	21	.1	<del>41</del>		.1	+69 34			
	3	25.5	+69 44	1332	6.2	I	795	4			
	<del>3</del> 25.5	+58 26	.9	.9	+58 16	3	25.5	+58 26	619	7.0	I
	898		5	8							
	<del>3</del> 27.4	+75 24	22	.1	<del>42</del>		.1	+75 14			
	3	<del>14</del>	<del>27.4</del>	+75 24	143	6.5	III?				
	939	898	954		2	3	3				
	<del>3</del> 25.7	+57 32	.2	.2	+57 22	3	25.7	+57 32	730	7.0	II a
	898		2	6							
	23	<del>43</del>									
	<del>3</del> 26.8	+59 43	.2	.2	+59 33	3	26.8	+59 43	675	7.0	II
	898		2	6							
	<del>3</del> 29.6	+76 50	2.4	.0	<del>44</del>		.0	+76 41			
	3	29.6	+76 50	128	7.5	I	939	<u>898</u>			
	954		7	4	6						
	<del>3</del> 29.8	+83 5	3	33.7	+83 14	91	7.3	I	173	844 <sup>^</sup>	III ?
	898	1057		3	5	6	7				



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~~6~~<sup>3</sup>~~h~~

[6 columned table]

K Line|F Line|Brightness|Corr. Brightness|Mean. Residuals|No.  
Remarks|

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

| m~~45~~ | | | | |  
~~45~~ | | | | |  
 $\cdot^{\wedge}[\ ] \cdot^{\wedge}[\ ] 10^{\wedge}[\ ] | s^{\wedge}[\ ] \cdot^{\wedge}[\ ] s^{\wedge}[\ ] | 6.6,^{\wedge}[\ ] 6.9,^{\wedge}[\ ] 6.5^{\wedge}[\ ] | 6.3,6.6,6.4 |$   
 $\cdot^{\wedge}[\ ] 46[\ ] | \cdot^{\wedge}[\ ] | 6.0^{\wedge}[\ ] | 5.8 | | [?] |$   
 $2,^{\wedge}[\ ] 2^{\wedge}[\ ] | \cdot^{\wedge}[\ ] s^{\wedge}[\ ] | 6.7,^{\wedge}[\ ] 6.5^{\wedge}[\ ] | 5.6,6.0 | | \dots |$   
 $10,^{\wedge}[\ ] 10,^{\wedge}[\ ] 10,^{\wedge}[\ ] 47[\ ] | \cdot^{\wedge}[\ ] s^{\wedge}[\ ] s^{\wedge}[\ ] |$   
 $6.5^{\wedge}[\ ] 6.4^{\wedge}[\ ] 6.8^{\wedge}[\ ] 6.5^{\wedge}[\ ] 6.5^{\wedge}[\ ] 6.2^{\wedge}[\ ] | 6.8^{\wedge}[\ ] 6.7^{\wedge}[\ ] 7.1^{\wedge}[\ ] 6.8^{\wedge}[\ ]$   
 $7.0^{\wedge}[\ ] 6.7^{\wedge}[\ ] | | \dots |$   
 $10,^{\wedge}[\ ] | s^{\wedge}[\ ] | 6.9^{\wedge}[\ ] | 6.4 | - | .621^{\wedge}[\ ] |$   
~~48~~ | | | | |  
 $10,^{\wedge}[\ ] 10,^{\wedge}[\ ] | \cdot^{\wedge}[\ ] s^{\wedge}[\ ] | 6.9,^{\wedge}[\ ] 6.6^{\wedge}[\ ] | 5.8,6.1 | | \dots |$   
 $10,^{\wedge}[\ ] \cdot^{\wedge}[\ ] 5,^{\wedge}[\ ] 49[\ ] | \cdot^{\wedge}[\ ] \cdot^{\wedge}[\ ] s^{\wedge}[\ ] | 6.7,^{\wedge}[\ ] 7.0,^{\wedge}[\ ]$   
 $6.6^{\wedge}[\ ] | 7.1,7.4,7.2 | | \dots |$   
 $\cdot^{\wedge}[\ ] 10^{\wedge}[\ ] \cdot^{\wedge}[\ ] \cdot^{\wedge}[\ ] \cdot^{\wedge}[\ ] | \cdot^{\wedge}[\ ] s^{\wedge}[\ ] s^{\wedge}[\ ] s^{\wedge}[\ ] s^{\wedge}[\ ] | 7.3,^{\wedge}[\ ] 6.8,^{\wedge}[\ ]$   
 $6.2,^{\wedge}[\ ] 6.3,6.0^{\wedge}[\ ] | 7.4,7.3,7.1,7.4,7.1 | | \dots |$

Handwritten astronomical catalog page 83 from the Project PHaEDRA. The page contains a table with columns for K Line, F Line, Brightness, Corr. Brightness, Mean Residuals, and No. Remarks. The handwriting is in cursive and includes various mathematical notations and numbers.

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~~6~~ ~~3h~~

[[10 columned table

| 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No. DM. | Mag. DM.  
Spectrum. | No. Plate. | No. Lines. |

--- | --- | --- | --- | --- | --- | --- | --- | --- | --- |  
25 ~~50~~ <sup>^</sup>[m] | | | | | | | | | |  
^ 3 30.0 +65 19 26.0 ~~51~~ | .0 | +65 10  
3 30.0 | +65 19 | 353 | 8.0 | | 954, | 4, |  
^ 3 29.9 +56 23 .4 | .4 | +56 14 | 3 29.9 | +56 23 | 824 | 6.6 | II? |

954, 3, |  
^ 3 30.5 +56 37 27.0 ~~52~~ | .0 | +56 28  
3 30.5 | +56 37 | 826 | 6.5 | | 258, 898, 954, | 5, 7, 7, |

^ 3 31.2 +63 33 .3 | .3 | +63 24 | 3 31. ~~1~~  
~~2~~ | +63 33 | 437 | 7.0 | II | 954, | 3, |  
^ 3 33.9 +80 0 .1 | .1 | +79 51 | 3 33.9 | + ~~78~~

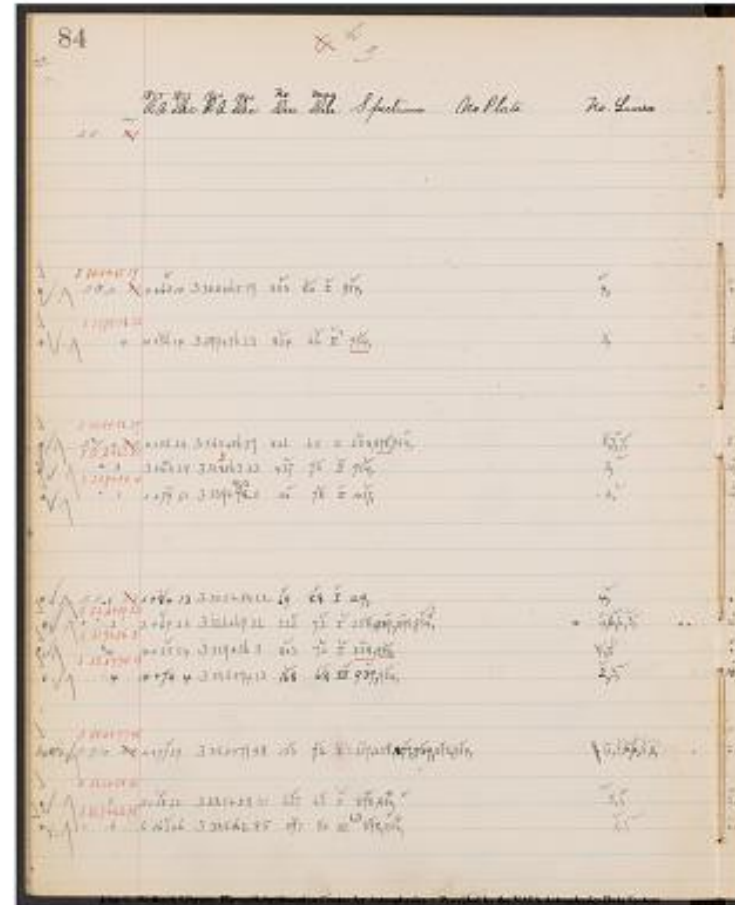
~~80 0~~ | 110 | 7.8 | II | 1057, | 2, |  
^ 28.1 ~~53~~ | .1 | +84 13 | 3 38.5 | +84  
22 | 69 | 8.8 | | 1019, | 4, |  
^ 3 32.6 +69 32 .2 | .2 | +69 23 | 3 32.6 | +69 32 | 222 | 7.2 | I | 258,

939, 898, 954<sup>[a ?]</sup>, | .4, 6, 6, 3, . . |  
^ 3 31.9 +56 3 .4 | .4 | +55 54 | 3 31.9 | +56 3 | 803 | 7.0 | I |  
258, 954, 4, 7, |

^ 3 33.5 +74 13 .4 | .4 | +74 4 | 3 33.5 | +74 13 | 168 | III | 939, 954, | 2,  
3, |

^ 3 35.0 +77 48 | No. 30 29.0 ~~54~~ | .0  
+77 39 | 3 35.0 | +77 48 | 133 | 7.2 | I | 217, 258, 877, 939, 898, 954, |  
~~4~~, ~~5~~, ~~6~~, ~~6~~, ~~8~~, . |

^ 3 33.1 +58 31.5 | .5 | +58 22 | 3 33.1 | +58 31 | 637 | 6.5 | I | 898,  
954<sup>[III]</sup>, | 5, 1, |  
^ 3 33.5 +62 55.6 | .6 | +62, 46 | 3 33.5 | +62 55 | 597 | 5.0 | III bc ? |  
898, 954<sup>[III]</sup>, | 1, 1, |



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~~6~~ h 3 85  
 | K Line | F Line | Brightness | Corr. Brightness | Mean Residuals. | No  
 Remarks. |  
 |---|---|---|---|---|  
~~m~~ | | | | |  
~~55~~ | | | | |  
 .<sup>^</sup>[ ] 56~~[[strikethrough]]~~ | .<sup>^</sup>[ ] 6.8<sup>^</sup>[ ] | 6.7 | | . |  
 20<sup>^</sup>[ ]~~[[?]]~~<sup>^</sup>[ ] | s<sup>^</sup>[ ] 6.6<sup>^</sup>[ ] | 6.2 | | . |  
 .<sup>^</sup>[ ] .<sup>^</sup>[ ] .<sup>^</sup>[ ] 57~~[[strikethrough]]~~ | .<sup>^</sup>[ ] .<sup>^</sup>[ ] s<sup>^</sup>[ ] | 6.8, <sup>^</sup>[ ] 6.5, <sup>^</sup>[ ]  
 6.7<sup>^</sup>[ ] | 5.6, 5.9, 5.7 | | ... |  
 | 10, <sup>^</sup>[ ] | s<sup>^</sup>[ ] | 6.6<sup>^</sup>[ ] | 6.5 | | . |  
 | 10, <sup>^</sup>[ ] | .<sup>^</sup>[ ] | 6.8<sup>^</sup>[ ] | 7.5 | | . |  
 .<sup>^</sup>[ ] 58~~[[strikethrough]]~~ | .<sup>^</sup>[ ] | 6.8<sup>^</sup>[ ] | 7.9 | | . |  
 | 10, <sup>^</sup>[ ] .<sup>^</sup>[ ] .<sup>^</sup>[ ] .<sup>^</sup>[ ] | .<sup>^</sup>[ ] s<sup>^</sup>[ ] s<sup>^</sup>[ ] . .<sup>^</sup>[ ] | 7.0, <sup>^</sup>[ ] 6.9, <sup>^</sup>[ ] 6.6, <sup>^</sup>[ ]  
 6.6<sup>^</sup>[ ] | 6.3, 6.8, 6.5, 6.7 | | .... |  
 | .<sup>^</sup>[ ] 10, <sup>^</sup>[ ] | .<sup>^</sup>[ ] s<sup>^</sup>[ ] | 7.2, <sup>^</sup>[ ] 6.5<sup>^</sup>[ ] | 6.0, 6.1 | | .. |  
 | 10, <sup>^</sup>[ ] 10, <sup>^</sup>[ ] | .<sup>^</sup>[ ] s<sup>^</sup>[ ] | 6.9<sup>^</sup>[ ] 6.8<sup>^</sup>[ ]<sup>^</sup>[ ] 6.7<sup>^</sup>[ ] 6.4<sup>^</sup>[ ]<sup>^</sup>[ ] | 7.1<sup>^</sup>[ ] 7.0<sup>^</sup>[ ]  
 7.1<sup>^</sup>[ ] 6.8<sup>^</sup>[ ] | | ... |  
 | .<sup>^</sup>[ ] .<sup>^</sup>[ ] .<sup>^</sup>[ ] .<sup>^</sup>[ ] 2<sup>^</sup>[ ] 59~~[[strikethrough]]~~ | .<sup>^</sup>[ ] .<sup>^</sup>[ ] s<sup>^</sup>[ ] .<sup>^</sup>[ ]  
 s<sup>^</sup>[ ] s<sup>^</sup>[ ] | 7.1, <sup>^</sup>[ ] 7.2, <sup>^</sup>[ ] 6.6, <sup>^</sup>[ ] 6.0, <sup>^</sup>[ ] 6.4, <sup>^</sup>[ ] 5.9<sup>^</sup>[ ] |  
 6.8, 7.1, 6.5, 6.5, 6.9, 6.3 | | ..... |  
 | 5<sup>^</sup>[ ] .<sup>^</sup>[ ] | .<sup>^</sup>[ ] s<sup>^</sup>[ ] | 6.9<sup>^</sup>[ ] 6.9<sup>^</sup>[ ] 6.6<sup>^</sup>[ ]<sup>^</sup>[ ] | 6.4 6.6<sup>^</sup>[ ] 6.3<sup>^</sup>[ ] | | .. |  
 | .<sup>^</sup>[ ] .<sup>^</sup>[ ] | s<sup>^</sup>[ ] s<sup>^</sup>[ ] | 7.0<sup>^</sup>[ ] 6.8<sup>^</sup>[ ]<sup>^</sup>[ ] 6.9<sup>^</sup>[ ] 6.6<sup>^</sup>[ ]<sup>^</sup>[ ] | 6.6<sup>^</sup>[ ] 6.4<sup>^</sup>[ ]  
 6.7<sup>^</sup>[ ] 6.4<sup>^</sup>[ ] | | 630<sup>^</sup>[ ] .<sup>^</sup>[ ] |

K Line	F Line	Brightness	Corr. Brightness	Mean Residuals	No Remarks
55	56	6.8	6.7		
57	58	6.8	7.9		
59	60	6.6	6.5		
61	62	6.8	7.5		
63	64	6.8	7.9		
65	66	6.8	7.9		
67	68	6.8	7.9		
69	70	6.8	7.9		
71	72	6.8	7.9		
73	74	6.8	7.9		
75	76	6.8	7.9		
77	78	6.8	7.9		
79	80	6.8	7.9		
81	82	6.8	7.9		
83	84	6.8	7.9		
85	86	6.8	7.9		
87	88	6.8	7.9		
89	90	6.8	7.9		
91	92	6.8	7.9		
93	94	6.8	7.9		
95	96	6.8	7.9		
97	98	6.8	7.9		
99	100	6.8	7.9		

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~~7~~ <sup>h</sup> 3

[10 columned table]

| 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No. DM. | Mag. DM.  
Spectrum. | No. Plate. | No. Lines. |

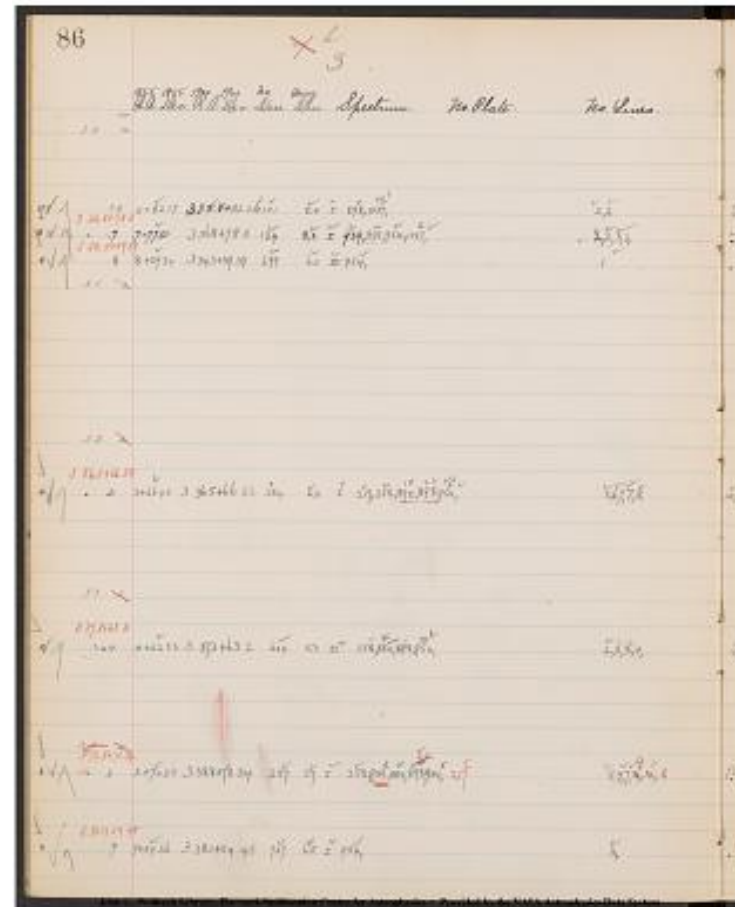
30 ~~0~~ <sup>m</sup> | | | | | | | | | | | |  
| .<sup>h</sup> 5 | .5 | +82 17 | 3 38.8 | +82 26 | 101 | 8.4 | I | 898, 1057<sup>h</sup> ~~II~~ ? | , | 2,  
2 |

| .<sup>h</sup> 3 36.8 +78 0 .7 | .7 | +77 51 | 3 36.8 | +78 0 | 134 | 8.0 | I | 939, 898,  
954, 1057<sup>h</sup> ~~III~~ | , | 2, 3, 3, 3, |  
| .<sup>h</sup> 3 34.5 +59 39 .8 | .8 | +59 30 | 3 34.5 | +59 39 | 699 | 6.0 | III | 954, |  
1 |

31 ~~1~~ | | | | | | | | | | | |  
32 ~~2~~ | | | | | | | | | | | |  
| .<sup>h</sup> 3 36.5 +66 54 .3 | .3 | +66 45 | 3 36.5 | +66 53 | 284 | 6.2 | I | 217,  
258, 898<sup>h</sup> ~~I~~ , 898<sup>h</sup> ~~II~~ , 954<sup>h</sup> ~~III~~ a | , | 5, 6,  
7, 7, 8, |

33 ~~3~~ | | | | | | | | | | | |  
| .<sup>h</sup> 3 37.3 +63 2 .4 | .4 | +62 53 | 3 37.3 | +63 2 | 604 | 5.3 | II a | 258  
884<sup>h</sup> ~~III~~ , 898, 954<sup>h</sup> ~~III~~ b | , | 2, 3, 3, 4, |

34 ~~4~~ | | | | | | | | | | | |  
| .<sup>h</sup> 3 38.8 +70 34 .2 | .2 | +70 25 | 3 38.8 | +70 34 | 257 | 5.7 | I | 258,  
939<sup>h</sup> ~~d~~ , 884, 898<sup>h</sup> ~~III~~ bc  
~~I~~ , 954<sup>h</sup> ~~I~~ , 217<sup>h</sup> ~~I~~ | 8, 7, 7, ~~3~~  
~~9~~, 10, 6 |  
| .<sup>h</sup> 3 38.1 +54 45 .7 | .7 | +54 36 | 3 38.1 | +54 45 | 707 | 6.5 | I | 954, | 3,



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	K Line	F Line	Brightness	Corr. Brightness	Mean. Residuals	No. Remarks
1						
2						
3						
4						
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87						
88						
89						
90						

2,2,2,2,2,^[[2,]] |~~[[skethrough]]~~ 15 ^[[m]] |~~[[skethrough]]~~ | ...,s,s,s,s ^[[S]] | 5,6,6,0,...,5,4,4,4,4,4 ^[[J]] | 5,0,5,2,4,2,4,4,4,6 ^[[J]] | | ..... |  
~~[[skethrough]]~~ 16	~~[[skethrough]]~~						
... ^[[A]]	... S ^[[A]]	6,9,6,8,6,0 ^[[A]]	5,7,5,4,5,6		...		
... 10, ^[[A]]	... s,s ^[[A]]	7,0,7,0,6,5 ^[[A]]	[6,8,6,3,6,0] ^[[A]]	5,9,6,7,6,9 ^[[A]]			
[5,7,6,0,6,4]			6,36,6,47 ^[[A]]				
		s-	7,2 ^[[6,9]]	7,6 ^[[7,3]]			
10,		^[[A]]	7,0 ^[[A]]	7,0			
5,2,2,2, ^[[A]]	... s,s,s ^[[A]]	6,4,6,5,6,8,6,2,5,8 ^[[A]]	5,5,5,4,5,3,				
5,9,5,7			.....				
~~[[skethrough]]~~ 17	~~[[skethrough]]~~						
... ^[[A]]	...,s,s,s ^[[A]]	6,8,7,0,7,1 ^[[6,6,6,8,6,8 ^[[A]]	7,5,7,9,8,0 ^[[7,3				
7,7,7,7]]		...					
5,10,2 ^[[A]]	... s,s ^[[A]]	6,9,6,5,7,0,6,3,5,5 ^[[A]]	6,0,5,8,5,7,6,2,				
5,6			.....				
2, ^[[A]]	... s,s ^[[A]]	6,8,6,7,6,7,6,1 ^[[A]]	5,5,5,6,6,2,5,8			...	
~~[[skethrough]]~~ 18	~~[[skethrough]]~~						
10,10,10 ^[[A]]	...,s,s,s ^[[A]]	7,1,6,4,6,8,6,6 ^[[7,0]] ^[[A]]	7,3 ^[[7,2]]				
7,0,7,6,7,4			6,27 ^[[A]]				
10 ^[[A]]		^[[A]]	6,9 ^[[A]]	6,4			6,41 ^[[A]]
	^[[A]]		^[[A]]	6,8 ^[[A]]	6,8		
	^[[A]]		^[[A]]	7,1 ^[[6,9]] ^[[A]]	7,9 ^[[7,7]]		
~~[[skethrough]]~~ 19	~~[[skethrough]]~~						
10, ^[[A]]		^[[A]]	7,0 ^[[6,9]] ^[[A]]	6,5 ^[[6,4]]			
2, ^[[A]]	... s, ^[[A]]	7,0,6,4,6,6 ^[[A]]	6,0,6,0,6,4		...		
	s	7,1 ^[[6,8]] ^[[A]]	7,5 ^[[7,2]]				

[illegible]

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[10 columned table]]

| 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No. DM. | Mag. DM.  
 .Spectrum. | No. Plate. | No. Lines. |  
 --- | --- | --- | --- | --- | --- |  
 40 ~~[[strikethrough]]~~ 20 ~~[[strikethrough]]~~ ^[[m]] | | | | | | | | | |  
 . ^ 3 45.8 +71 31 . 41.0 ~~[[strikethrough]]~~ 21 ~~[[strikethrough]]~~ | .0 | +77 22  
 3 45.8 | +71 31 | 22.0 6.5 | | 258, 217, 884^[[884]] , ~~[[underlined]]~~ 954.  
~~[[/underlined]]~~ 898 | 4, 3, 3, 6, 8 |  
 . ^ 3 45.6 +57 40 42.0 ~~[[strikethrough]]~~ 22 ~~[[strikethrough]]~~ | .0 | +57 31  
 3 45.6 | +57 40 | 752 | 6.0 | | 217, 258, 898, 954, | 5, 5, 7, 9, . |  
 . ^ 3 46.4 +60 52 .1 ~~[[strikethrough]]~~ .6 | .6 | +60 44 | 3 46.4 | +60 52 |  
 762 | 7.8 | | ~~[[underlined]]~~ 271, ~~[[/underlined]]~~ | 6, ~~[[strikethrough]]~~ ~~[[strikethrough]]~~ . |  
 . ^ 3 49.2 +77 54 43.0 ~~[[strikethrough]]~~ 23 ~~[[strikethrough]]~~ | .0 | +77 46  
 3 49. ~~[[strikethrough]]~~ 3 ~~[[/strikethrough]]~~ 2 | +77 54 | 138 | 7.0 | III | 939,  
 954, 1057, | 1, 3, 3, |  
 . ^ . 3 | +80 33 | 3 50.7 | +80 41 | 123 | 8.3 | | | ~~[[underlined]]~~ 1019,  
~~[[/underlined]]~~ 898, 1057, | 5, 5, 6, |  
 . ^ 3 50.5 +79 30 | .7 | +79 22 | 3 50.5 | +79 30 | 125 | 8.3 | | 939, 898,  
 954^[[b]] , 1057, ~~[[underlined]]~~ 1069, ~~[[/underlined]]~~ | . . 3, 5, 4, 6, 3, |  
 . ^ 3 48. ~~[[strikethrough]]~~ 0 ~~[[/strikethrough]]~~ .1 +52 21 44  
~~[[strikethrough]]~~ 24 ~~[[/strikethrough]]~~ | .7 | +52 13 | 3 48.1 | +52 21 | 726 |  
 6.5 | ? | 954, | 3, |  
 . ^ 3 47.8 +56 37 . .2 | .2 | +56 29 | 3 47.8 | +56 37 | 857 | 7.0 | | 217,  
 954, | 4, 5, |  
 . ^ 3 47.9 +59 20 .2 | .2 | +59 12 | 3 47.9 | +59 20 | 736 | 7.0 | III b | 898,  
 954^[[III]] , | 3, 3, |  
 . ^ 3 ~~[[strikethrough]]~~ 47.9 ~~[[/strikethrough]]~~ 48.0 +51 55 .7 | .7 | +51 47 |  
 3 48. ~~[[strikethrough]]~~ 1 ~~[[/strikethrough]]~~ 0 | +51 55 | 803 | 6.5 | II? | 954,  
 2, |  
 . X. ^ 3 48.6 +62 46 | .7 | .7 | +62 38 | 3 48.6 | +62 47 | 628 | 5.2 | | 258,  
 217, 884, 898, 954, | 7, 7, 7, 11, 9, |  
 . ^ 3 48.6 +60 48 .8 | .8 | +60 40 | 3 48.6 | +60 4 ~~[[strikethrough]]~~ 3  
~~[[/strikethrough]]~~ 9 | 768 | 5.8 | III | 258, 898, ~~[[strikethrough]]~~  
~~[[underlined]]~~ 954 ^[[f]] ~~[[underlined]]~~ ~~[[/strikethrough]]~~ 1, 954 ^[[III ?]] , |  
 1, 3, ~~[[strikethrough]]~~ 11, ~~[[/strikethrough]]~~ 3 |

[illegible]

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~~7~~ h 3

| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No. Plate | No. Lines|  
45~~30~~ m |3|

|3|49.0 + 50|24|  
|9|9 + 50|16|3|49.2 +  
50|~~3~~|860|5.7|II^a^2|217,|II^a|2,|  
|3|53.2 + 80|26|  
|no. 25|46.0|~~31~~|.0 + 80|18|3|53.3 +  
80|26|125|4.9|II^a|173,161,217^I,258^I^341,275,1019,877^I^a^2|2,2,2,7  
^2,2,3,7,|

|3|50.7 + 57|9|  
|4.7.1|~~32~~|.1 + 57|1|3|50.7 +  
57|9|760|7.0|I|217,954,|5,4,|

3	53.1 + 76	8								
.4	.4 + 75	60	3	53.1 + 76	8	160	7.5	II^7	954,	2,
3	50.9 + 53	42		50.9						
.5	.5 + 53	34	3	~~51.0~~	+					
53|42|718|6.8|I|217,954,|5,5,

|3|54.4 + 78|60|  
|.8|.8 + 78|32|3|54.4 + 78|40|142|8.0|I|939,898,954,1054,1069  
|IIa|5,5,5,6,6,|5,...|  
|4|8|~~33~~|

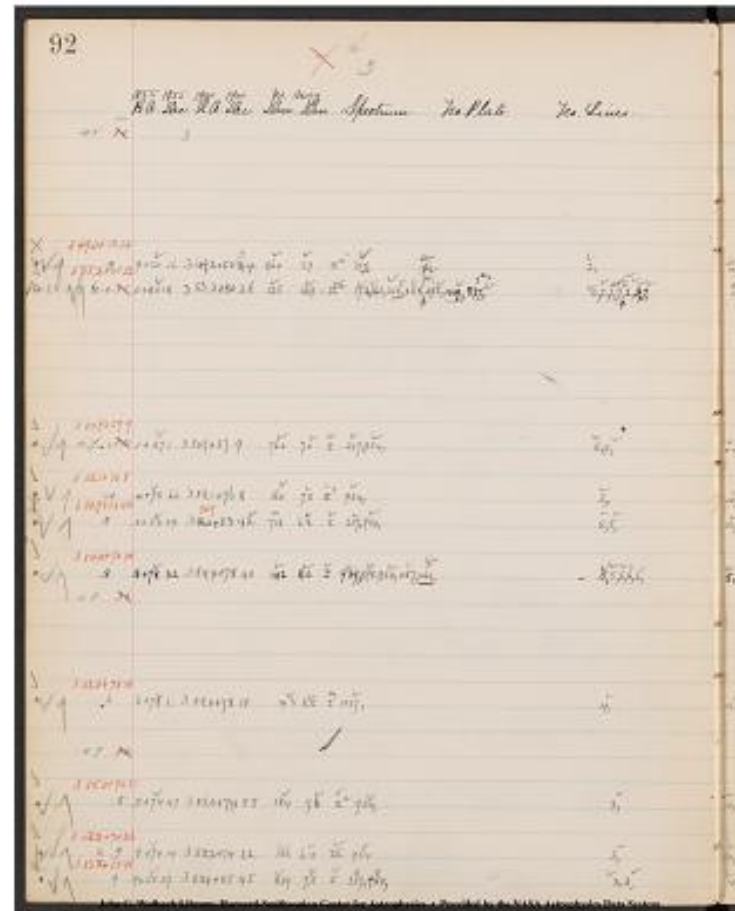
|3|55.0 + 78|10|  
|.6|.6 + 78|2|3|55.0 + 78|10|14|3|8.5|I|1057,|.4,|10,|

|4|9|~~34~~|

|3|55.0 + 74|55|  
|.5|.5 + 74|47|3|55.0 + 74|55|184|7.8|IIa|9|54,|3,|10,|

3	55.2 + 74	22										
4	9	9 + 74	14	3	55.2 + 74	22	186	6.4	III	954	3,	10,
3	53.	~~5~~	4 + 55	45								
9	9 + 55	37	3	53.4 + 55	45	839	7.5	I	217,954,	3,3,		

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| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |

355.3+73w42

50.1,~~40~~.1+7334|355.3+7342|210|6.4||III|  
954,1057,||3,1

354.1+629

.2|2+621|354.~~0~~<sup>1</sup>+629|643|7.5||954,||3  
357.2+7846

.6|6+7838|357.2+7846|146|7.2||III|898,954,1057,1069,||3,3,3,3,

354.5+5840

.8|8+5832|354.5+5840|685|8.0||954,||3,

5-1~~41~~

355.9+6824

.5|5+6816|355.9+6824|303|6.0||III|898,954,||1,3,

5-2~~42~~

~~356.1~~

.4|4+8510|45.1+8517|63|6.5||173,844,1019,884,898,1057,||3,3,3,3,3,3,  
356.1+5853

.4|4+5845|356.1+5853|690|5.0||217,258,898,954,||7,2,7,3

357.7+7318

.6|6+7310|357.7+7318|212|6.5||III|898,954,1057,||3,3,2,

357.3+6514

53.1|~~43~~.1+656|357.3+6514|391|6.6||258  
258,217,898,954,||5,4,6,4,8,

356.7+5448

.2|2+5440|356.7+5448|734|7.0||954||3,

358.2+715

.4|4+7057|358.2+715|276|7.5||898,954,||4,5,

357.4+6148

.5|5+6140|357.4+6148|669|7.0||III|898,954,||3,2,

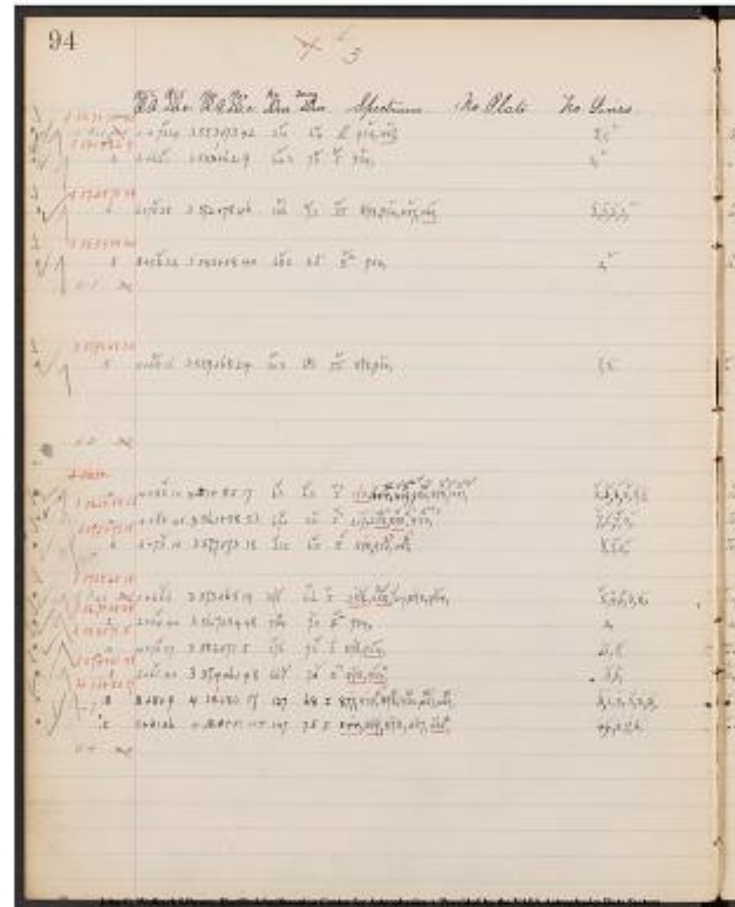
41.1+8017

.8|8+809|41.~~0~~<sup>1</sup>+8017|127|6.8||877,93

9,898,954,1057,1069,||3,1,3,3,3,3,

.8|\*+8136|42.0+8144|147|7.5||844,1019,898,1057,1035,||4,6,8,7,6,

54~~44~~



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~~7~~<sup>3</sup><sup>h</sup>

[6 columned table]

|K Line |F Line |Brightness |Corr. Brightness |Mean. Residuals |No. Remarks |

|10, ^<sup>10</sup> | ^<sup>10</sup> | ~~45~~<sup>m</sup> | ~~S~~<sup>S</sup> | 6.7<sup>6.4</sup> | 6.9<sup>6.6</sup> | 7.1<sup>6.8</sup> | 7.1<sup>6.8</sup> | .. |

|. ^<sup>10</sup> | . ^<sup>10</sup> | 6.9<sup>6.7</sup> | .. |

|10, ^<sup>10</sup> | 10, ^<sup>10</sup> | 10, ^<sup>10</sup> | 10, ^<sup>10</sup> | S<sup>10</sup> | S<sup>10</sup> | S<sup>10</sup> | S<sup>10</sup> | 7.0<sup>6.8</sup> | 6.9<sup>6.6</sup> | 6.9<sup>6.6</sup> | 7.0<sup>6.6</sup> | 7.0<sup>6.6</sup> | 7.6<sup>7.4</sup> | 7.7<sup>7.4</sup> | 7.5<sup>7.2</sup> | 7.6<sup>7.2</sup> | .. |

|10, ^<sup>10</sup> | S<sup>10</sup> | 6.8<sup>6.5</sup> | 6.53<sup>6.5</sup> |

||| | ~~46~~<sup>46</sup> | ||| ||| ||| |||

|. ^<sup>10</sup> | 10<sup>10</sup> | S<sup>10</sup> | S<sup>10</sup> | 7.2<sup>6.9</sup> | 7.0<sup>6.6</sup> | 7.1<sup>6.8</sup> | 7.1<sup>6.7</sup> | .. |

||| | ~~47~~<sup>47</sup> | ||| ||| ||| |||

|10, ^<sup>10</sup> | 10, ^<sup>10</sup> | 10, ^<sup>10</sup> | 10, ^<sup>10</sup> | 10, ^<sup>10</sup> | S<sup>10</sup> | S<sup>10</sup> | S<sup>10</sup> | S<sup>10</sup> | 7.0<sup>6.8</sup> | 6.5<sup>6.5</sup> | 5.8<sup>5.8</sup> | 5.7<sup>5.8</sup> | 5.7<sup>5.8</sup> | 7.3<sup>7.3</sup> | 7.1<sup>7.3</sup> | 7.3<sup>7.2</sup> | 7.2<sup>7.3</sup> | .. |

|10, ^<sup>10</sup> | 10, ^<sup>10</sup> | 10, ^<sup>10</sup> | 10, ^<sup>10</sup> | . ^<sup>10</sup> | . ^<sup>10</sup> | S<sup>10</sup> | S<sup>10</sup> | 6.4<sup>6.4</sup> | 6.4<sup>6.2</sup> | 5.4<sup>5.4</sup> | 6.1<sup>5.3</sup> | 5.3<sup>5.7</sup> | 5.1<sup>5.5</sup> | 6.52<sup>6.5</sup> |

|10, ^<sup>10</sup> | 10, ^<sup>10</sup> | 10, ^<sup>10</sup> | S<sup>10</sup> | S<sup>10</sup> | . ^<sup>10</sup> | 6.7<sup>6.7</sup> | 6.4<sup>6.4</sup> | 6.6<sup>6.6</sup> | 6.8<sup>6.7</sup> | 7.2<sup>6.6</sup> | 42<sup>42</sup> |

|10, ^<sup>10</sup> | . ^<sup>10</sup> | 5, ^<sup>10</sup> | 2, ^<sup>10</sup> | ~~48~~<sup>48</sup> | . ^<sup>10</sup> | . ^<sup>10</sup> | . ^<sup>10</sup> | S<sup>10</sup> | S<sup>10</sup> | 7.0<sup>6.8</sup> | 6.8<sup>6.4</sup> | 6.0<sup>6.0</sup> | 6.1<sup>5.7</sup> | 6.1<sup>5.9</sup> | .. |

|10, | S | 6.6<sup>6.2</sup> | 6.46 |

|. ^<sup>10</sup> | . ^<sup>10</sup> | . ^<sup>10</sup> | 7.0<sup>7.0</sup> | 7.0<sup>7.0</sup> | .. |

|10, ^<sup>10</sup> | 10, ^<sup>10</sup> | S<sup>10</sup> | . ^<sup>10</sup> | 6.7<sup>6.7</sup> | 6.3<sup>6.5</sup> | .. |

|. ^<sup>10</sup> | . ^<sup>10</sup> | 10, ^<sup>10</sup> | 10, ^<sup>10</sup> | 10, ^<sup>10</sup> | . ^<sup>10</sup> | S<sup>10</sup> | S<sup>10</sup> | S<sup>10</sup> | S<sup>10</sup> | 6.9<sup>6.6</sup> | 6.4<sup>6.5</sup> | 6.2<sup>6.2</sup> | 6.2<sup>5.9</sup> | 6.7<sup>6.5</sup> | 7.0<sup>7.3</sup> | 7.1<sup>7.2</sup> | 6.9<sup>7.1</sup> | 6.8<sup>7.0</sup> | 6.6<sup>7.4</sup> | 7.2<sup>7.2</sup> | .. |

|. ^<sup>10</sup> | . ^<sup>10</sup> | 2, . ^<sup>10</sup> | . ^<sup>10</sup> | S<sup>10</sup> | S<sup>10</sup> | S<sup>10</sup> | S<sup>10</sup> | S<sup>10</sup> | 6.5<sup>6.5</sup> | 6.0<sup>6.2</sup> | 6.2<sup>6.2</sup> | 6.4<sup>6.8</sup> | 6.7<sup>7.1</sup> | 7.1<sup>7.0</sup> | .. |



||| ~~49~~ ||| ||| |||

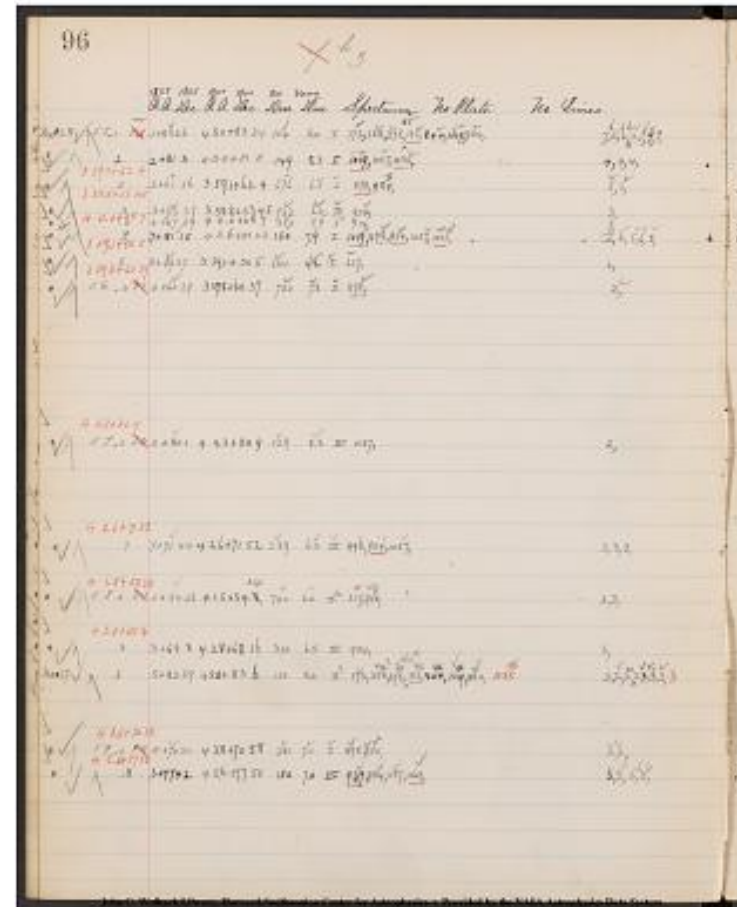
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[[~~7~~]] 7 [[~~3h~~]] 3h

| | 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
 Spectrum | No Plate | No Lines |  
 no.28 33.1 .1 + 8326 45.0 + 8334 104 5.0 I  
 173,158,275,185,844,1019,884, 7,6,6,4,7,9,9  
 .2 .2 + 81 3 43.0 + 81 11 149 8.3 I 1019,1057,1035, 4,4,4  
 359.1 + 624  
 .2 .2 + 61 56 359.1 + 62.4 676 6.5 I 898,954, 5,3,  
 358.8 + 5345  
 .3 .3 + 53 37 358.8 + 5345 732 6.0 III 954, 3  
 40.0 + 687  
 .6 .6 + 6759 40.0 + 684 310 7.4 I 954, 3  
 .7 .7 + 8115 43.6 + 8123 150 7.9 I 1019,898,954,1054,1035 5,6,5,6,5  
 359.1 + 505  
 .8 8 + 4957 559.1 + 505 1101 4.2 I 217, 6,  
 359.8 + 6037  
 56.0 .0 + 6029 359.8 + 6037 780 7.8 II 898, 2  
  
 44.3 + 809  
 57.0 .0 + 801 44.3 + 809 129 8.3 III 1057, 2  
  
 42.6 + 7152  
 .7 .7 + 7144 42.6 + 71 52 239 6.3 III 898,954,1057, 3,3,3,  
  
 41.5 + 5434  
 58.0 .0 + 5426 41.5 + 54 740 6.0 II 217,954, 2,3,  
  
 42.8 + 6816  
 .3 .3 + 688 42.8 + 6816 310 6.5 III 954, 3,  
 .5 .5 + 8259 48.0 + 836 113 5.0 II 172,258,275,185,844,1019,884,1035  
 2,2,2,2,3,3,3,3  
 359.8 + 6037  
 56.0 .0 + 6029 359.8 + 6037 780 7.8 II 898, 2,  
  
 43.8 + 7058  
 59.0 .0 + 7050 43.8 + 70 58 281 7.0 I 898,954, 2,2  
 45.6 + 7750  
 .3 .3 + 7742 456 + 7750 150 7.0 III 939,954,1057,1069, 3,3,2,3

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98 ~~8~~th

1855 1855 1900 1900 no. mag.  
R.A. Hec. R.A. Hec. Him. Him. Sheetuim. no. Plate  
m  
0  
4 7.0+78 46

2+78 36 4 ~~6.9~~ 7.0+78 46 151 8.2 I. .954,  
1057, 3,4,.

4 7.1+74 22  
.7+74 15 47.1+7422 195 8.0 I? 898,954,

49.5+80 35  
no. 73 2.0+80 28 49.6+80 35 133 5.7 III 258,275,341,877,939,884,III be,  
954 be, 1057 III? 2,1,2,3,3,1,~~9~~ 3,3,3,

48.1+75 52  
.4+75 45 48.2+75 52 173 6.8. I 217,275,341,898,954,1057,2 1057,1069,  
5,4,3,4,8,5,4,7,

46.5+54 15  
3.0+54 8 4 6.5+54 15 749 7.0 I 217,954, 3,4,

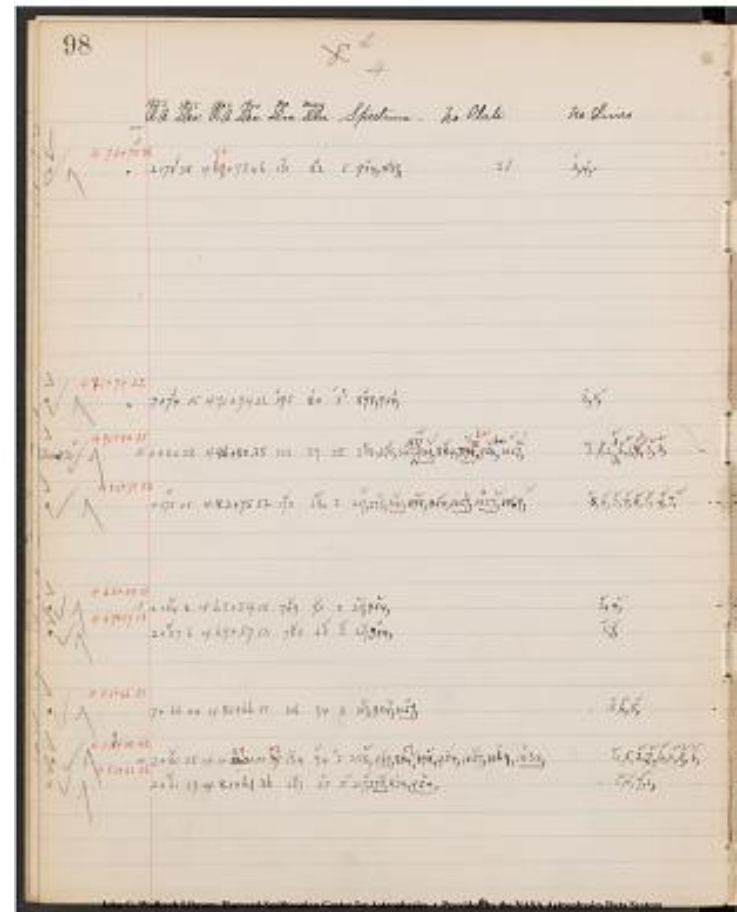
46.9+57 13  
.2+57 6 46.9+57 13 785 6.5 I 217,954, 5,7,

48.1+66 51  
.7+66 44 48.1+66 51 316 7.4 I 217,954,1057, 5,6,5,

411.~~8~~ 9+80 42  
4.2+80 35 44 ~~12.0~~ 11.9+80  
~~39~~ 42 134 7.4 I 258,939,884  
I?,898,954,1057,1069,1035, 4,5,2,7,6,6,5,6,

48.1+61 36  
2+61 29 48.1+61 36 687 5.5 I 217,275,954 1,954 2, 6,4,7,1,

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~~8~~4h

[6 columned table]

K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remarks |

--- | --- | --- | --- | --- | --- |  
~~5~~ | --- | --- | --- | --- | --- |  
 $\cdot^{\wedge}[\square] \cdot^{\wedge}[\square] | \cdot^{\wedge}[\square] \cdot^{\wedge}[\square] | 6.6^{\wedge}[\square], 6.6^{\wedge}[\square] | 7.4, 7.2 | | \cdot \cdot |$   
~~6~~ | --- | --- | --- | --- | --- |  
 $5^{\wedge}[\square], 5^{\wedge}[\square], | \cdot^{\wedge}[\square] S^{\wedge}[\square] | 6.9^{\wedge}[\square], 6.5^{\wedge}[\square] | 7.1, 6.9 | | \cdot \cdot |$   
 $10^{\wedge}[\square], \cdot^{\wedge}[\square], 10, 10^{\wedge}[\square], 30^{\wedge}[\square], \cdot^{\wedge}[\square],$   
~~2~~ |  $10^{\wedge}[\square], 10^{\wedge}[\square],$   
~~7~~ |  $\cdot^{\wedge}[\square] \cdot^{\wedge}[\square] \cdot S^{\wedge}[\square] S^{\wedge}[\square] S^{\wedge}[\square]$   
~~S~~ |  $S^{\wedge}[\square] S^{\wedge}[\square] S^{\wedge}[\square] | 7.1^{\wedge}[\square], 7.0^{\wedge}[\square],$   
 $6.4^{\wedge}[\square], 6.8^{\wedge}[\square], 6.5^{\wedge}[\square], 6.9^{\wedge}[\square],$   
~~5.5~~ |  $6.2^{\wedge}[\square], 6.9^{\wedge}[\square], 6.1^{\wedge}[\square],$   
 $7.3^{\wedge}[\square], 7.1^{\wedge}[\square], 6.9^{\wedge}[\square], 7.0^{\wedge}[\square], 7.3^{\wedge}[\square], 6.5^{\wedge}[\square],$   
~~6.3~~ |  $5.7^{\wedge}[\square], 6.9^{\wedge}[\square], 6.9^{\wedge}[\square],$   
~~625 658~~ |  $\cdot |$   
 $\cdot^{\wedge}[\square] \cdot^{\wedge}[\square] \cdot^{\wedge}[\square] \cdot^{\wedge}[\square] \cdot^{\wedge}[\square] 10^{\wedge}[\square], \cdot^{\wedge}[\square] 10^{\wedge}[\square], | \cdot^{\wedge}[\square] \cdot^{\wedge}[\square] \cdot^{\wedge}[\square] \cdot^{\wedge}[\square] S^{\wedge}[\square]$   
 $S^{\wedge}[\square] \cdot^{\wedge}[\square] S^{\wedge}[\square] | 6.8^{\wedge}[\square], 6.8^{\wedge}[\square], 6.7^{\wedge}[\square], 6.3^{\wedge}[\square], 5.6^{\wedge}[\square] \cdot^{\wedge}[\square] 6.5^{\wedge}[\square],$   
 $6.0^{\wedge}[\square] | 6.3, 6.4, 6.7, 6.6, 6.1 \cdot 6.8, 6.3 | | \cdot \cdot \cdot \cdot \cdot |$   
 $\cdot^{\wedge}[\square] \cdot^{\wedge}[\square] | \cdot^{\wedge}[\square] \cdot^{\wedge}[\square] | 7.2^{\wedge}[\square], 6.8^{\wedge}[\square]$   
 $5.8, 6.4 | | \cdot \cdot |$   
 $2^{\wedge}[\square] 8^{\wedge}[\square], | \cdot S^{\wedge}[\square] | 6.9^{\wedge}[\square], 6.5^{\wedge}[\square] | 5.6, 6.2 | | \cdot \cdot |$   
 $\cdot^{\wedge}[\square] \cdot^{\wedge}[\square] 10^{\wedge}[\square], | \cdot^{\wedge}[\square] S^{\wedge}[\square] \cdot^{\wedge}[\square] | 6.8^{\wedge}[\square], 6.2^{\wedge}[\square], 6.6^{\wedge}[\square] | 5.8, 6.2,$   
 $6.4 | | \cdot \cdot \cdot |$   
 $\cdot^{\wedge}[\square] \cdot ?^{\wedge}[\square] 2^{\wedge}[\square], 5^{\wedge}[\square], \cdot^{\wedge}[\square] \cdot^{\wedge}[\square] \cdot^{\wedge}[\square]$   
~~9~~ |  $\cdot^{\wedge}[\square] \cdot \cdot^{\wedge}[\square] S^{\wedge}[\square] S^{\wedge}[\square] S^{\wedge}[\square] \cdot^{\wedge}[\square]$   
 $S^{\wedge}[\square] | 7.0^{\wedge}[\square] \cdot 7.0^{\wedge}[\square], 6.3^{\wedge}[\square], 6.2^{\wedge}[\square], 6.1^{\wedge}[\square], 6.3, 6.2^{\wedge}[\square] | 7.2 \cdot 6.6,$   
 $7.1, 7.2, 6.9, 7.1, 6. | \cdot \cdot \cdot \cdot \cdot |$   
 $\cdot^{\wedge}[\square] \cdot^{\wedge}[\square] \cdot^{\wedge}[\square] \cdot | \cdot^{\wedge}[\square] \cdot^{\wedge}[\square] S^{\wedge}[\square] \cdot | 6.6^{\wedge}[\square], 6.0^{\wedge}[\square], 5.6^{\wedge}[\square], \cdot^{\wedge}[\square] | 5.4,$   
 $4.9, 5.4 \cdot | | \cdot \cdot \cdot \cdot |$

99

K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remarks

1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1

1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2

1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3

1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4

1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5

1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6

1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7

1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8

1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9

2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0

2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1

2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2

2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3

2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4

2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5

2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6

2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7

2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8

2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9

3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0

3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1

3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2

3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3

3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4

3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5

3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6

3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7

3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8

3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9

4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0

4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1

4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2

4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3

4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4

4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5

4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6

4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7

4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8

4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9

5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0

5.1 | 5.1 | 5.1 | 5.1 | 5.1 | 5.1

5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2

5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3

5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4

5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5

5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6

5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7

5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8

5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9

6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0

6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1

6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2

6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3

6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4

6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5

6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6

6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7

6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8

6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9

7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0

7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1

7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2

7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3

7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4

7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5

7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6

7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7

7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8

7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9

8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0

8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1

8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2

8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3

8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4

8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5

8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6

8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7

8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8

8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9

9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0

9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1

9.2 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2

9.3 | 9.3 | 9.3 | 9.3 | 9.3 | 9.3

9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4

9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5

9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6

9.7 | 9.7 | 9.7 | 9.7 | 9.7 | 9.7

9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8

9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9

10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0

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~~8~~ ~~4h~~

| 1855 RA 1855 Dec | 1900 RA 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No. Lines |  
| 48.9 + 5736 ~~7~~ 10 ~~5~~ 6 | 2 + 57 29 | 48.9  
+ 5737 | 787 | 6.0 III | 217, 341, 954 | | 2, ~~4~~  
~~3~~ |

| 48.9 + 53 21 ~~2~~ ~~4~~ + 53 14 | 48.9 + 53  
22 | 750 | 5.0 | | 217, 954, | | 8.8, |

| 49.2 + 56 56 ~~7~~ ~~5~~ + 56 49 | 49.2 + 56  
56 | 899 | 7.3 | | 217, 954, | 5.7, |

| 412.6 + 79 28 ~~9~~ ~~6~~ + 79 21 | 4.12.6  
~~7~~ ~~7~~ + 79 28 | 143 | 8.0 II ? |  
898,954,1057, | | 3,2,2, |

| 49.6 + 58 32 | 8 + 58 25 | 49.6 + 58 32 | 727 | 7.1 | I<sup>d</sup>[d] | 217, 954, |  
4,5, |

☒ ☒ 8 + 58 25 |  
49.6 + 58 32 | ☒ | 727 | ☒ 7.1 |  
☒ I<sup>d</sup> | ☒ 217, ☒  
☒ 954, |

| 6 | ~~11~~

☒ | 4 11.3 + 64 54 |

☒ ☒ | 7.1  
~~12~~ ~~.1~~ + 64 ☒ 47 | 4  
11.2 + 64 54 | ☒ 433 | ☒ 6.0 |  
☒ III, | ☒ 217, ☒  
☒ 275<sup>I</sup>?, III? 954, ☒ 1057<sup>II</sup>,

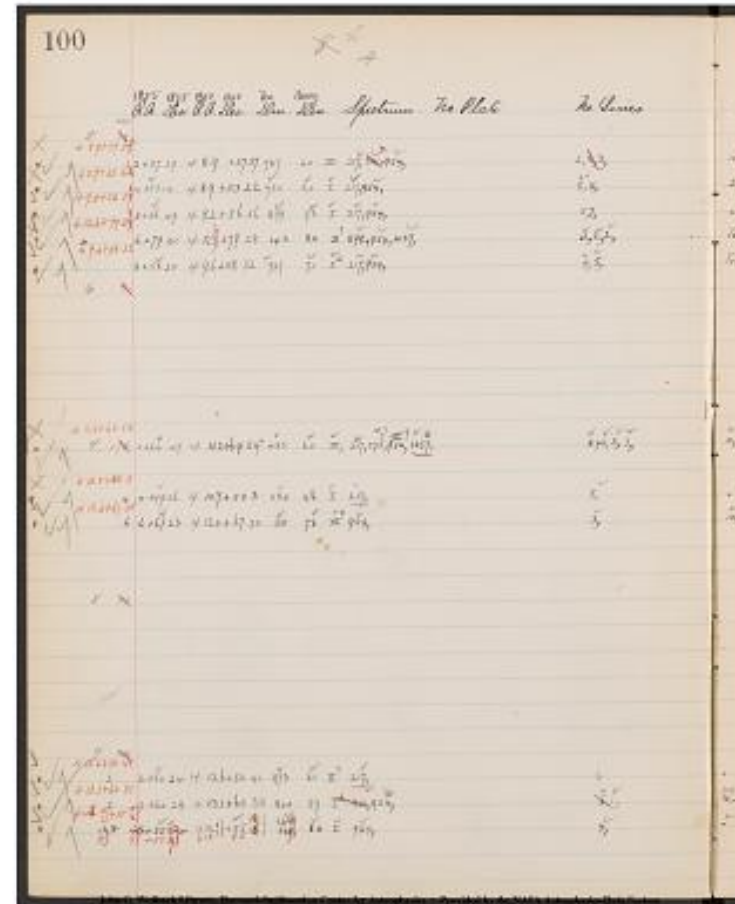
☒ | 4 10.8+50 3|

☒ ☒ ☒ | 4 12.0 +  
67<sup>4</sup> 4 30 | .4 + ☒ 49 56 | 4 10.7 + 50 3 | ☒  
☒ 1150 | ☒ 4.8 | ☒ I |  
☒ 2.17, |

☒ ☒ | .6 | .6 +  
☒ 67 23 | 4 12.0 + 67 30 | ☒  
321 | ☒ 7.8 | ☒ III<sup>?</sup> | ☒  
☒ 954, |

~~8~~ ~~13~~

☒ | 4 12.6 <sup>9</sup> + 50 41<sup>?</sup> ~~14~~  
~~14~~ |





[[symbol- checkmark]] [[symbol- upsidedown checkmark]] | .2 | .2 + 50  
34 | 4 12.6 + 50 41 | [[symbol- checkmark]] 973 | [[symbol- checkmark]]  
6.1 | II^? | [[symbol- checkmark]] 217,|

[[symbol- checkmark]] | 4 13.1 + 60 31 |

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~~8~~ ~~4~~<sup>[h]</sup>

[6 columned table]

| K Line | F Line | Brightness | Corr. Brightness | Mean Residuals | No  
Remarks |

---	~~15~~<sup>[m]</sup>	~~10~~	~~10~~	~~1~~					
10, ~~10~~	~~10~~	~~10~~	~~10~~						
~~s~~	~~7.0~~<sup>[6.8]</sup>	~~6.8~~							
~~6.6~~<sup>[6.3]</sup>	~~5.7~~<sup>[5.5]</sup>	~~6.0~~	~~6.3~~<sup>[6.0]</sup>						
~~2~~	~~s~~	~~6.1~~<sup>[6.0]</sup>	~~5.7~~<sup>[6.0]</sup>	~~4.7~~	~~5.3~~		..		
..	~~s~~	~~6.8~~<sup>[6.0]</sup>	~~6.4~~<sup>[6.0]</sup>	~~5.5~~	~~6.1~~		..		
~~10~~<sup>[6.0]</sup>	~~10~~<sup>[6.0]</sup>	~~10~~<sup>[6.0]</sup>	~~s~~<sup>[6.0]</sup>	~~6.9~~<sup>[6.0]</sup>	~~6.7~~<sup>[6.0]</sup>	~~6.6~~<sup>[6.0]</sup>			
~~7.5~~	~~7.5~~	~~7.2~~		..					
~~10~~<sup>[6.0]</sup>	~~10~~<sup>[6.0]</sup>	~~10~~<sup>[6.0]</sup>	~~s~~<sup>[6.0]</sup>	~~7.1~~<sup>[6.0]</sup>	~~6.6~~<sup>[6.0]</sup>	~~6.8~~	~~6.3~~		..
---	~~16~~								
~~10~~<sup>[6.0]</sup>	~~10~~<sup>[6.0]</sup>	~~10~~<sup>[6.0]</sup>	~~10~~<sup>[6.0]</sup>	~~17~~					
~~10~~<sup>[6.0]</sup>	~~s~~<sup>[6.0]</sup>	~~s~~<sup>[6.0]</sup>	~~6.7~~<sup>[6.5]</sup>	~~6.8~~<sup>[6.5]</sup>	~~5.7~~<sup>[5.5]</sup>	~~6.2~~<sup>[6.0]</sup>	~~5.6~~<sup>[5.4]</sup>		
~~5.8~~	~~5.6~~<sup>[5.4]</sup>	~~5.9~~		....					
~~10~~<sup>[6.0]</sup>	~~10~~<sup>[6.0]</sup>	~~10~~<sup>[6.0]</sup>	~~10~~<sup>[6.0]</sup>						
~~10~~<sup>[6.0]</sup>	~~s~~<sup>[6.0]</sup>	~~6.9~~<sup>[6.8]</sup>	~~6.9~~<sup>[6.8]</sup>						
---	~~18~~								
---	~~19~~								
..	~~6.5~~	~~5.0~~		..					
~~10~~<sup>[9]</sup>	~~10~~<sup>[9]</sup>	~~10~~<sup>[9]</sup>	~~10~~<sup>[9]</sup>	~~s~~<sup>[6.0]</sup>					
~~6.0~~	~~6.9~~<sup>[6.6]</sup>	~~5.3~~							
~~6.7~~<sup>[6.4]</sup>									
~~10~~<sup>[6.0]</sup>	~~s~~<sup>[6.0]</sup>	~~6.6~~<sup>[6.0]</sup>	~~6.2~~<sup>[6.0]</sup>		..				

101

~~8~~  
~~4~~

K Line	F Line	Brightness	Corr. Brightness	Mean Residuals	No Remarks
<del>15</del>	<del>10</del>	<del>10</del>	<del>10</del>	<del>1</del>	
<del>10</del>	<del>10</del>	<del>10</del>	<del>10</del>	<del>10</del>	
<del>s</del>	<del>7.0</del>	<del>6.8</del>			
<del>6.6</del>	<del>5.7</del>	<del>6.0</del>	<del>6.3</del>		
<del>2</del>	<del>s</del>	<del>6.1</del>	<del>5.7</del>	<del>4.7</del>	<del>5.3</del>
<del>..</del>	<del>s</del>	<del>6.8</del>	<del>6.4</del>	<del>5.5</del>	<del>6.1</del>
<del>10</del>	<del>10</del>	<del>10</del>	<del>s</del>	<del>6.9</del>	<del>6.7</del>
<del>6.6</del>					
<del>7.5</del>	<del>7.5</del>	<del>7.2</del>			
<del>10</del>	<del>10</del>	<del>10</del>	<del>s</del>	<del>7.1</del>	<del>6.6</del>
<del>6.8</del>	<del>6.3</del>				
<del>16</del>					
<del>10</del>	<del>10</del>	<del>10</del>	<del>10</del>	<del>17</del>	
<del>10</del>	<del>s</del>	<del>s</del>	<del>6.7</del>	<del>6.8</del>	<del>5.7</del>
<del>6.2</del>	<del>5.6</del>	<del>5.4</del>			
<del>5.8</del>	<del>5.6</del>	<del>5.4</del>	<del>5.9</del>		
<del>10</del>	<del>10</del>	<del>10</del>	<del>10</del>		
<del>10</del>	<del>s</del>	<del>6.9</del>	<del>6.8</del>		
<del>18</del>					
<del>19</del>					
<del>6.5</del>	<del>5.0</del>				
<del>10</del>	<del>9</del>	<del>10</del>	<del>10</del>	<del>s</del>	
<del>6.0</del>	<del>6.9</del>	<del>6.6</del>			
<del>5.3</del>					
<del>6.7</del>	<del>6.4</del>				
<del>10</del>	<del>s</del>	<del>6.6</del>	<del>6.2</del>		

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102

~~8~~ 4h

| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No. Plate | No. Lines |

~~4~~ 13.7+ 56 16 | 10.1 |  
~~20~~m | .1 +56 9 | |

| 4 144+ 59 23 |

~~]~~ .6 | .6+ 59 16 | 4.14.4+59 23 | 793 | 6.5 | I | 217, | 954, |

| 4 15.8+71 32 |

~~]~~ .9 | .9+71 25 | 4 15.8+71 32 | 250 | 7.5 | I | 898, 954,  
1057, |

~~]~~ 11.0 ~~21~~ | .0+83 43 | 4  
21.6+83 50 | 114 | 7.4 | III | 1019, 898, |

| 4 15.3+61 48 |

~~]~~ .3 | .3+ 61 41 | 4 15.3+61 48 | 707 | 6.7 | II | 954, |

~~x~~ | 4 19.0+80 40 |

~~]~~ .4 | .4+80 33 | 4 19.2+80 40 | 140 | 7.4 | I | 898, 954,  
1057, 1069, 1035^d, |

| 4 16.4+67 49 |

~~]~~ .9 | .9+67 42 | 4 16.4+67 49 | 327 | 8.1 | II | 1057, |

| 12 ~~22~~ |

| 4 16.3 + 53 17 |

~~]~~ .8 | .8+53 10 | 4 16.3+53 17 | 764 | 7.0 | II | 954, |

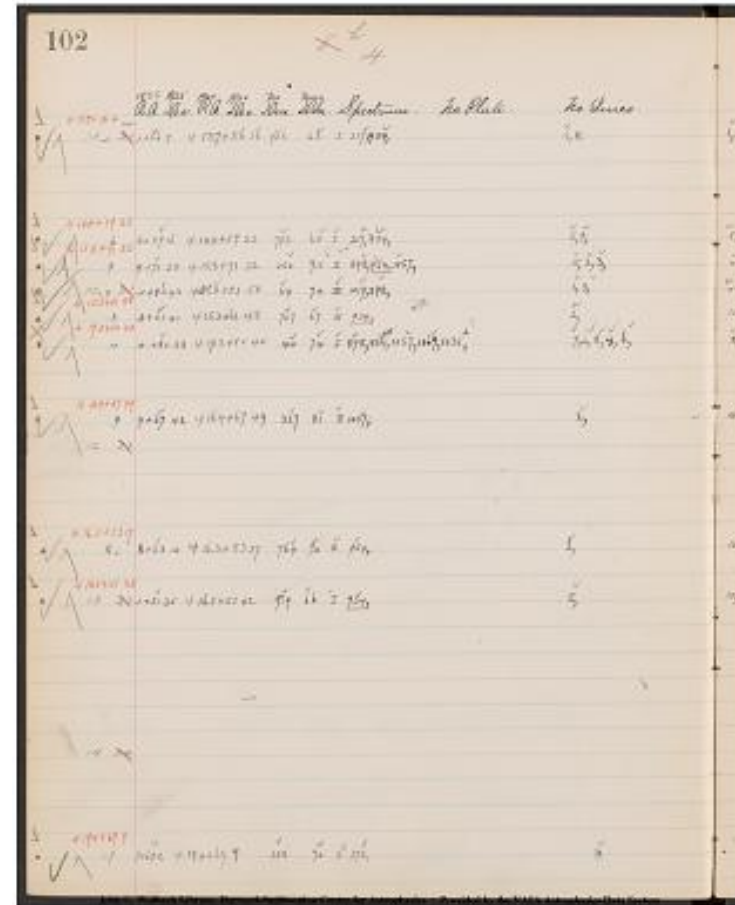
| 4 16.5+51 42 |

~~]~~ 13 ~~2.3~~ | 0.+ 51 35 | 4  
16.5+ 51 42 | 919 | 6.6 | I | 954, |

| 14 ~~24~~ |

| 4 19.4+69 9 |

~~]~~ .7 | .7+69.2 | 4 19.4+ 69 9 | 258 | 7.0 | I | 275, |



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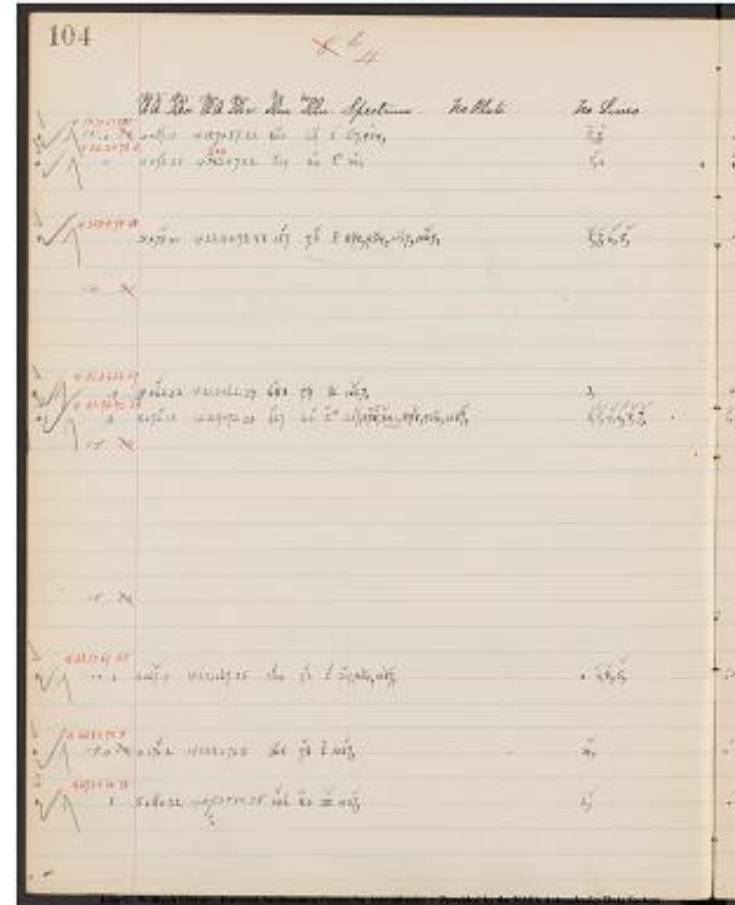
~~8~~ 4h

| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |

| 418.7+5722 | 0+5715 | | 418.7+5722 | | 800 | 6.9 | | 217,954 | | 5,7 |  
| 420.2+732 | 0+7255 | ~~415.2~~ 420.2+732  
224 | 8.4 | | 341, | | 5, |

| 422.4+7848 | .5+7841 | 422.4 + 7848 | 157 | 7.5 | | 898,954,1057,1069,  
| 5,7,6,5, |  
| 421.0+6229 .9 | .9+6222 | 421.0+6229 | 683 | 7.9 | III 1057, | | 3, |  
| 421.9+7220 .8 | .8+7213 | 421.9+7220 | 227 | 6.0 | I |  
217,275,341,898,954,1057, | | 5,5,4,6,8,7, |

423.1+6725 .6 | 6+6719 | 423.1+6725 | 334 | 7.3 | | 217,954,1057, | |  
4,8,5, |  
423.8+708 19.0 ~~34~~ 0+702 |  
423.8+708 | 305 | 7.8 | | 1057, | | 4, |  
427.3+8038 .5 | .5+8032 | 427.3+8038 | 146 | 8.0 | III 1057, | | 2, |



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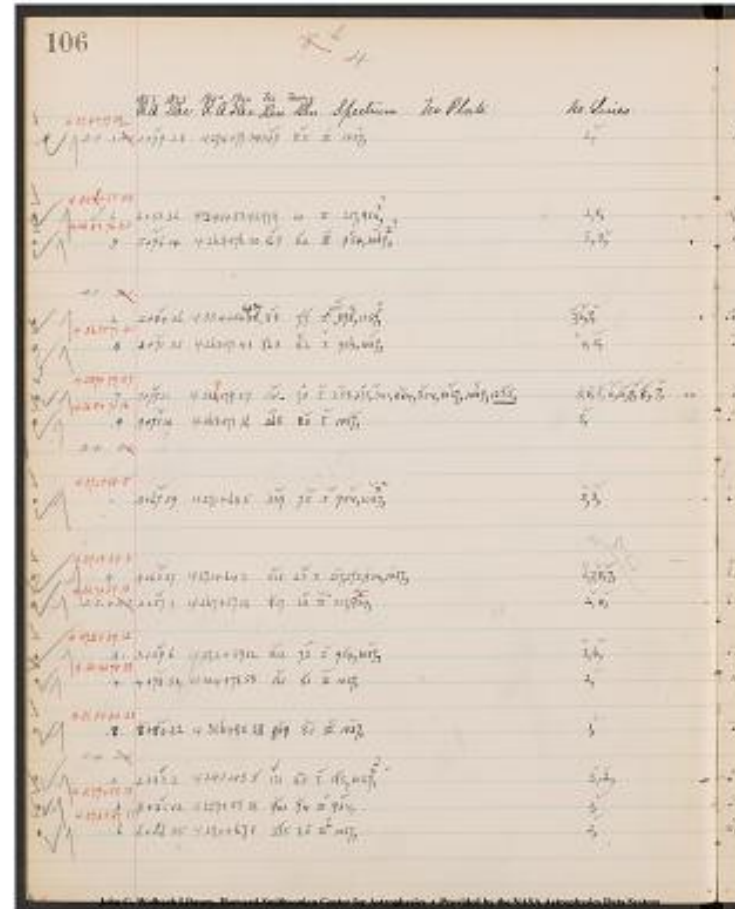
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~~8~~ ~~4~~<sup>h</sup>

[10 columned table]

| 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No. DM. | Mag DM. |  
Spectrum. | No. Plate. | No. Lines. |

--- | --- | --- | --- | --- | --- | --- |  
| ^ 4 27.4 +79 34 20 .1 | ~~40~~ ~~4~~<sup>m</sup> | .1 |  
+79 28 | 4 27.4 | +79 34 | 149 | 8.5 | II | 1057, | 2, |  
| ^ 4 24. | ~~4~~ | ~~1~~ +53 42 .6 | .6 | +53 36 |  
4 24.1 | +53 42 | 779 | 6.0 | II | 217, 954<sup>a</sup> | ~~1~~ ? | , | 2, 8, . . |  
| ^ 4 26.8 +76 20 .7 | .7 | +76 14 | 4 26.8 | +76 20 | 169 | 8.0 | II | 954,  
1069<sup>a</sup> | ~~1~~ ? | , | 2, 3, . |  
21	~~41~~									
.2	.2	+84 36	4 33.4	+84	~~36~~	~~42~~				
88	7.7	I<sup>a</sup>	~~1019 898<sup>a</sup>~~	, 1057<sup>a</sup>	,	5, 6, 7, . .				
^ 4 26.3 +71 41 .3	.3	+71 35	4 26.3	+71 41	263	8.2	I	954,		
1057,	4, 5,									
^ 4 28.9 +79 27 .7	.7	+79 21	4 28.	~~0~~						
~~9~~	+79 27	150	7.0	I	258, 275, 341, 884, 954, 1057,					
1069,	1035,	5, 5, 5, 6, 10, 9, 8, 7, . .								
^ 4 26.8 +71 16 .9	.9	+71 10	4 26.8	+71 16	265	8.0	I	1057,		
5,										
22	~~42~~									
^ 4 27.1 +68 5	.5	+67 59	4 27.1	+68 5	339	7.5	I	954,		
1057<sup>a</sup>	~~1~~ a	,	5, 3, .							
^ 4 27.1 +64 3 .9	.9	+63 57	4 27.1	+64 3	515	6.3	I	217, 275,		
954, 1057,	6, 7, 8, 7,									
^ 4 26.7 +57 13 23 .0	~~43~~	.0	+57 7							
4 26.7	+57 13	817	6.8	II a	217, 954<sup>a</sup>	,	2, 4, .			
^ 4 27.2 +59 12 .3	.3	+59 6	4 27.2	+59 12	812	7.2	I	954,		
1057,	5, 6,									
^ 4 30.4	+78 58 .4	.4	+78 52	4 30.4	+78 58	161	8.1	II	1057,	
2,										
^ 4 31.5 +80 28 .8	.8	+80 22	4 31.6	+80 28	149	8.1	III	1057,		
1,										
24	~~44~~									
.2	.2	+83 2	4 34.1	+83 8	121	8.5	I	185, 1057<sup>a</sup>	~~1~~ a ?	,
2,										
^ 4 27.9 +55 18 .3	.3	+55 12	4 27.9	+55 18	901	7.4	II	954,		
1,										
^ 4 29.0 +67 1 .6	.6	+66 55	4 29.0	+67 1	335	8.0	II a	1057,		
2, |



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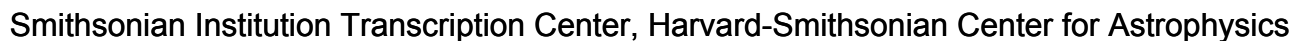
$$|.^{[\square]}|.^{[\square]}|6.9^{[\square]}|6.5| \quad ||| \quad |.|$$
[illegible]

|10,^[ ]|.^[ ]|7.0^[ ]|6.8| ||| |.663|

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|29 ~~54~~|



|4 35.4+75 46|

|.4|.4+75^|40|4|35.4+75|46|189^|6.0^||^|217,^|275,^|341,^  
|898,^|954,^|1057,^|1069,^|---  
|5,^|5,^|5,^|4,^|9,^|8,^|9|

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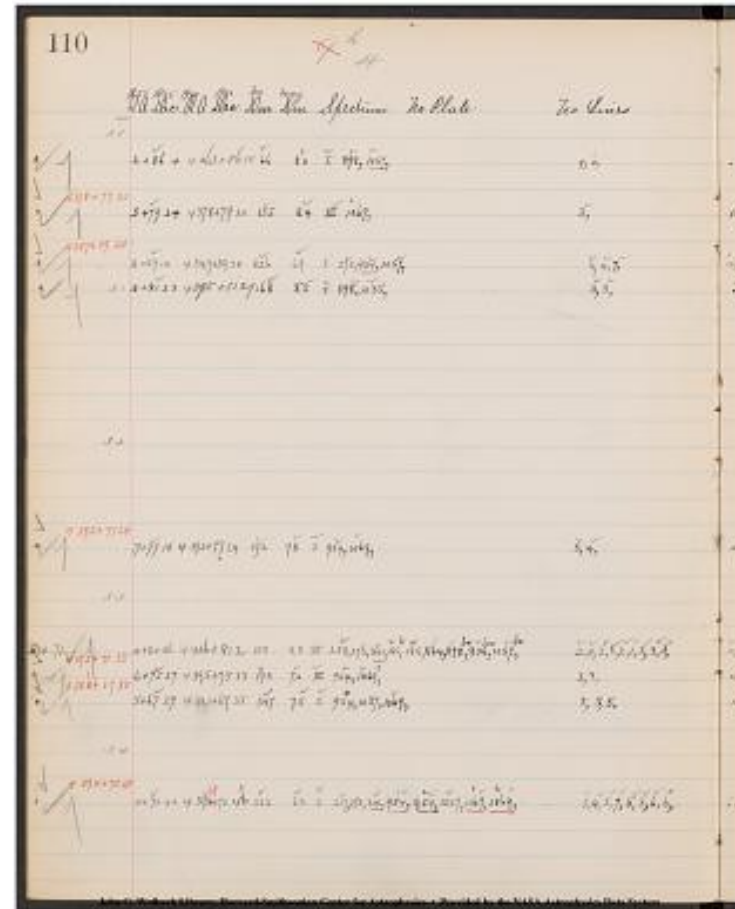


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~~9~~ 4<sup>h</sup>

[10 columned table]

1855 R.A.	1855 Dec.	1900 R.A.	1900 Dec.	No. DM.	Mag. DM.	Spectrum.	No. Plate.	No. Lines.
30 <sup>h</sup> 4 <sup>m</sup> 37.8	46.3	+86 10	66	8.0	I	898	<u>1057</u>	<u>4, 6</u>
4 37.8	+79 30	.5	+79 24	4 37.8	+79 30	155	8.4	III
4 34.7	+59 20	.8	+59 14	4 34.7	+59 20	826	6.9	I
<u>954</u>	<u>1057</u>	4, 4, 7						
31	.0	+81 23	4 39.5	+81 29	168	8.5	I	898, 1035, 3, 3, 32
4 39.2	+77 24	.7	+77 18	4 39.2	+77 24	172	7.8	I
954	1069	5, 4						
33								
No. 71	.4	+80 56	4 41.6	+81 2	155	5.5	III	258, 275, <u>341</u> , <u>165<sup>b</sup></u> , 185, 884, 898 <sup>bc</sup> , 954 <sup>bc</sup> , 1057 <sup>bc</sup> , 2, 4, 2, 3, 2, 1, 3, 3, 3, 3
4 39.5	+75 33	.6	+75 27	4 39.5	+75 33	193	7.0	III
1069 <sup>?</sup>		3, 3						
4 38.	<del>0</del>	<del>1</del>	+67 35	.5	+67 29	4		
38.1	+67 35	347	7.5	I	954, 1057, 1069	5, 5, 5		
34								
4 39.4	+70 45	.4	+70 40	4 39.	<del>3</del>	<del>3</del>		
4	+70 4	<del>6</del>	<del>5</del>	322	6.3	I	217, 275, <u>341</u> , 954 <sup>1</sup> , 954 <sup>2</sup> , <u>1057</u> , <u>1069<sup>1</sup></u> , 1069 <sup>2</sup> , <u>5, 4, 5, 7, 5, 8, 6, 6</u>	



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10,10,10, | ..,5 | 6.4,6.6,6.6 | 6.4,6.4,6.4|[[checkmark]]| ...

..10,.....|....,5.,5,5.|7.0,6.4,6.5,6.0,5.9.6.3|6.2,5.7,6.2.6.2,5.9.6.3|[[checkmark]]| .....

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~~9~~ <sup>h</sup>

| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |

3.5 ~~10~~ <sup>m</sup>

☒ ☒ ☒ | 4 39.7+ 56 35  
| 36.0 | ~~11~~ | .0 | +56 ☒ | 30  
439.7+56 35 943 ☒ | 5.8 ☒ | ☒  
275 ☒ | 1057 ☒ ||  
4 ☒ 8 ☒ |

☒ ☒ ☒ | 4 40.8+ 63 27  
| .6 | +63 ☒ 22 440.8+6327 | 536 | 7.0 | |  
217 ☒ 954 ☒ | 1057  
☒ | 257 | 4 ☒ | 7 ☒  
| 5 |

| 37 | ~~12~~ |

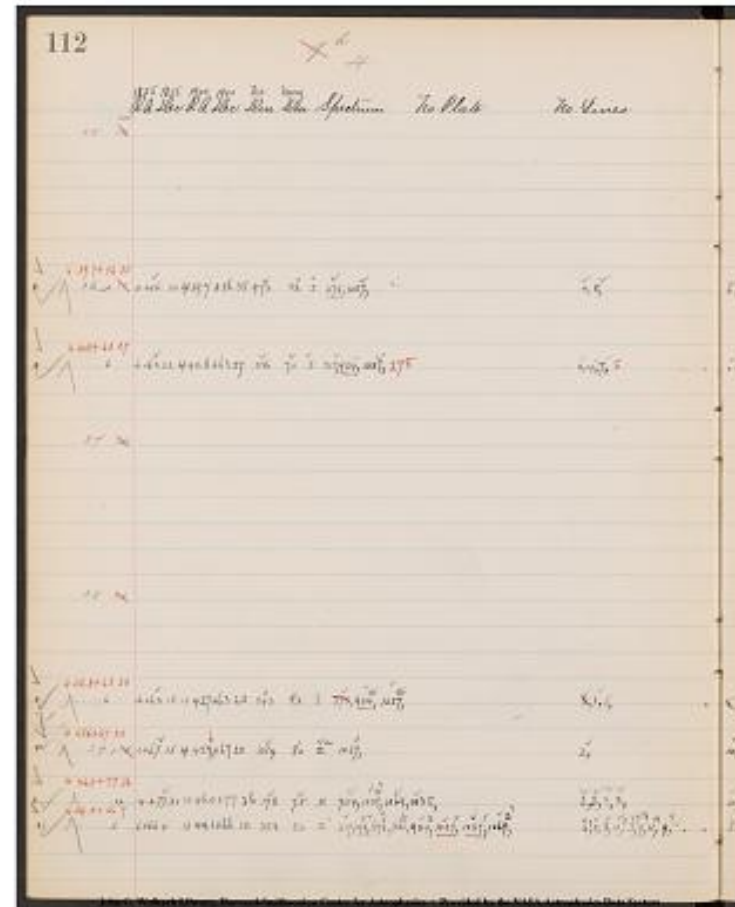
| 38 | ~~13~~ |

☒ ☒ ☒ | 4 42.8+63 20 | .6 | .6+63 ☒ | 15 | 4 | 42.7+63 20 | 543  
☒ | 5.8 ☒ | ☒ | ~~27.5~~  
~~954~~ ☒ | 954 ☒  
☒ <sup>3</sup> | 1057 ☒ <sup>3</sup> |  
☒ <sup>3</sup> | ~~5~~  
☒ | 1 ☒ | 1 ☒ |

| 39.1 ~~14~~ <sup>4 43.6+67 20</sup> | .1+67 <sup>20</sup> |  
15 | 4 | 43 ~~7~~ <sup>6</sup> + 67 | 20 | .354 <sup>20</sup> |  
8.0 <sup>20</sup> | <sup>20</sup> | 1057 <sup>20</sup> | --- | 2 <sup>20</sup> |

| . 4 <sup>4 46.0+77 36</sup> | .4 + 77 <sup>36</sup> | 31 | 4 46.0+77 | 36 | 178 <sup>36</sup> | 7.5 <sup>36</sup> |  
|| 954 <sup>36</sup> 1057 <sup>36</sup> 1069 <sup>36</sup> 1035 <sup>36</sup> | --- | 2,2,3,3 <sup>36</sup> |

| . 6 <sup>4 44.0+66.9</sup> | .6+66 | 4 | 4 | 44.1+66 | 10 | 35.8 | 5.0 | || ? |  
217 275 275 341 954  
1057 1057 1069 <sup>121</sup> | 1 <sup>1</sup> ? | 6,5,8,4,3,9,11,9 <sup>222???</sup>  
|



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[illegible]



114

~~9~~ ~~4~~<sup>h</sup>

[10 columned table]

| 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No. DM. | Mag. DM.  
Spectrum. | No. Plate. | No. Lines |  
--- | --- | --- | --- | --- | --- | --- |

| . 40.6 ~~20~~ <sup>7</sup> + 61 ~~9~~ <sup>m</sup> | .6+  
<sup>6114</sup> | 444. ~~6~~ <sup>7</sup> +  
61 ~~9~~ <sup>19</sup> | 739 <sup>6.9</sup> | <sup>1</sup> | <sup>275</sup> | 1057 <sup>4.6</sup> |

| . 6 <sup>445.2 + 6723</sup> | .6+6718 | 445.2+6723 | 356 <sup>7.5</sup> | |  
1057 <sup>4</sup> | --- | 4, <sup>1057</sup> |

| . 41.0 ~~21~~ | 0+8545 <sup>4563+8550</sup> |  
74 <sup>6.0</sup> | | 173  
275,175,185,353,884,898,1057,1119,1229, <sup>173</sup> |  
5,2,4,4,5,3,8,8,1,2, <sup>173</sup> |

| . ~~4~~ 46.1+71 27 ~~0~~ +  
71 <sup>22</sup> | 446.1 + 71 | 27 | 222 <sup>6.5</sup> | <sup>1</sup> | 898, <sup>8</sup> | 8, <sup>71</sup>  
~~4~~ |

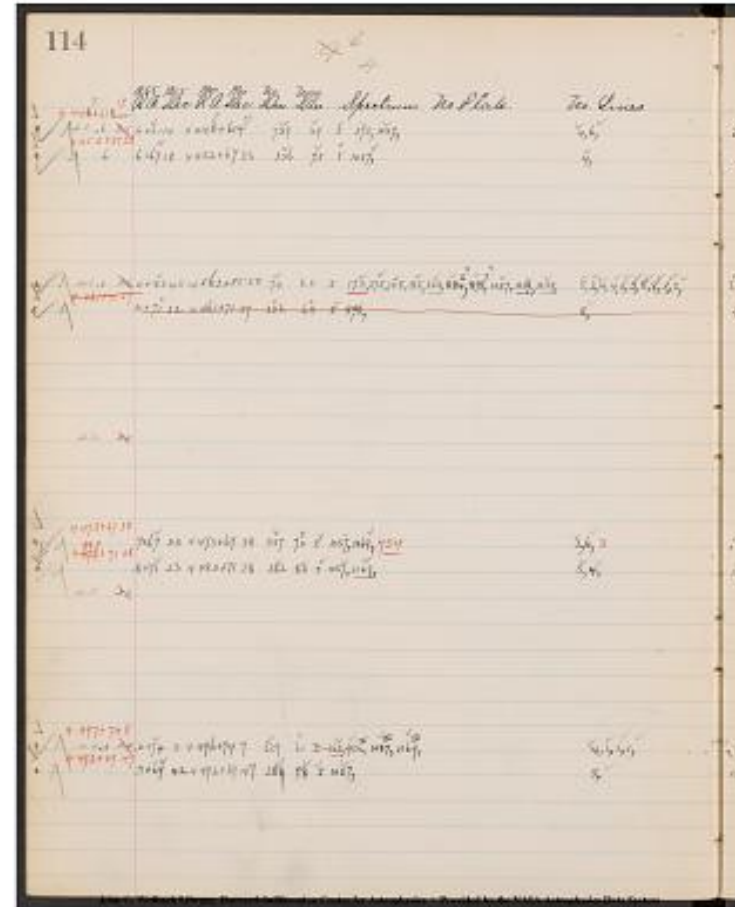
| 42 ~~22~~ |

| . 4 47.3 + 67 38 | .7+67 <sup>33</sup> | 33 | 4 47.3+67 | 38 | 357 <sup>7.0</sup> | |  
1057,1069, <sup>954</sup> ~~954~~ |  
--- | 3,6,3 <sup>4</sup> |  
| . 4 ~~48.0~~ <sup>71</sup> | 28 | .8+71 <sup>23</sup> | 23 | 4  
48.0+71 | 28 | 282 <sup>8.0</sup> | <sup>1</sup> | 1057 <sup>1069</sup> | 1069, <sup>5,4</sup>  
~~4~~ |

| 43 ~~23~~ |

| . 44.0 ~~24~~ <sup>4 49.7+74 8</sup> | 0+74 <sup>3</sup> | 3  
449.6+74 7 | 229 <sup>6.1</sup> | ~~1~~ | 165, 165, <sup>954</sup> ~~954~~ | 1057, <sup>1069</sup> ~~1069~~ |  
--- | ~~4~~ <sup>1,1,1</sup> |

| . 4 49.2+69 47 | .3+69 <sup>42</sup> | 42 | 4 49.2+69 | 47 | 28.8 <sup>7.8</sup> | | <sup>1</sup> |  
1057, <sup>5</sup> | --- | 5, |



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~~9~~ 4h

| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |

m

~~45~~ ~~30~~

| 4 50.8+72 16 | .5 | .5+72 11 | 4 50.8+72 16 | 248 | 8.4 | II | 1057, | --- |

3,

| 4 52.0+76 42 | .6 | .6+76 37 | 4 52.0+76 42 | 187 | 8.0 | II | 1057, | --- |

2,

| 4 49.3+53 35 | .7 | .7+53 30 | 4 49.3+53 35 | 829 | 5.0 | I<sup>h</sup>[d] | 341, | 6,

~~46~~ ~~31~~

| 4 51.8+73 38 | .2 | .2+73 33 | 4 51.8+73 37 | 264 | 6.3 | III | 954, 1069, |

--- | 1, 1, |

| 4 52.0+73 54 | .4 | .4+73 49 | 4 52.0+73 55 | 265 | 6.3 | I | 217, 275,

341, 954, 1057, 1069, 165 | --- | 5, 6, 5, 8, 9, 8, 4 |

| 4 51.3+69 2 | .5 | .5+68 57 | 4 51.3+69 2 | 357 | 7.0 | I<sup>h</sup>[?] | 1057, | --- |

5,

| 4 54.2+79 22 | .9 | .9+79 17 | 4 54.2+79 22 | 163 | 8.8 | I<sup>h</sup>[?] | 1057, | -

--- | 4, |

~~47~~ ~~32~~

| 5&6+83 4&3 4456.8+828 ^[[456.7+8 2 9]] | 138<sup>h</sup>[[137]] | 9.2<sup>h</sup>[[9.4]] | II |

1035, | --- | 3, |

~~48~~ ~~33~~

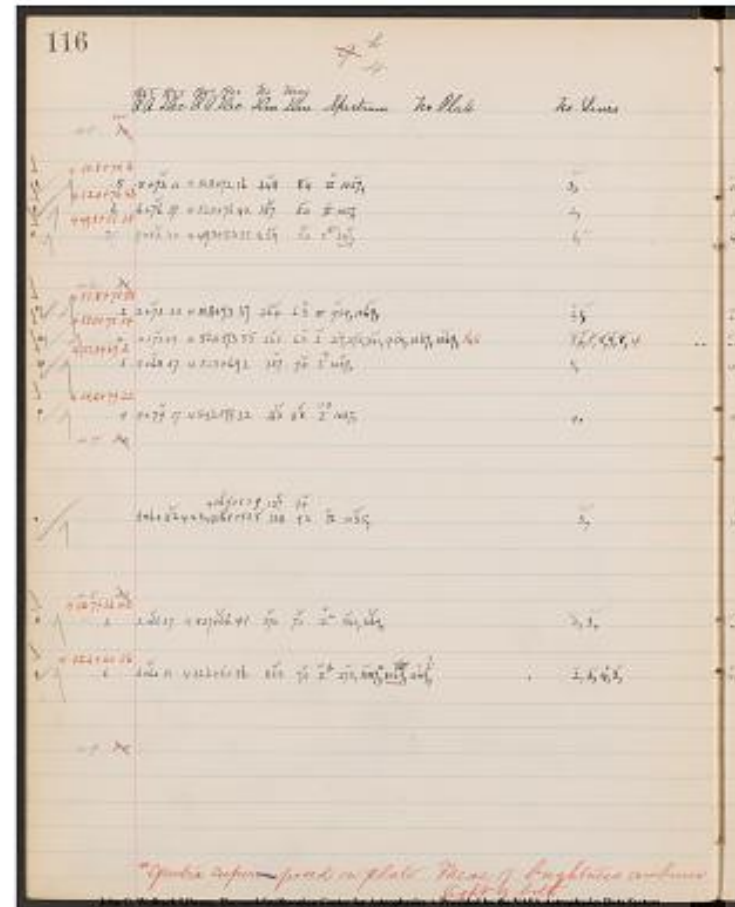
| 4 52.7+66 42 | .2 | .2+66 37 | 4 52.7+66 41 | 370 | 7.0 | II<sup>h</sup>[a] | 341,

1069, | --- | 2, 3, |

| 4 52.6+60 56 | .6 | .6+60 51 | 4 52.6+60 56 | 853 | 7.0 | II<sup>h</sup>[b] | 275,

1057<sup>h</sup>[a], 1069<sup>h</sup>[I], 1069<sup>h</sup>[[2 I?]], | . | 2, 3, 4, 3, |

~~49~~ ~~34~~



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117

117

Chlorine Fluorine Brightness Acid Brightness Acids Acids Remarks

X

1	1	11	11	✓	-
2	2	12	12	✓	-
3	3	13	13	✓	-

X

4	4	14	14	✓	-
5	5	15	15	✓	-
6	6	16	16	✓	-
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90	90	100	100	✓	-

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X

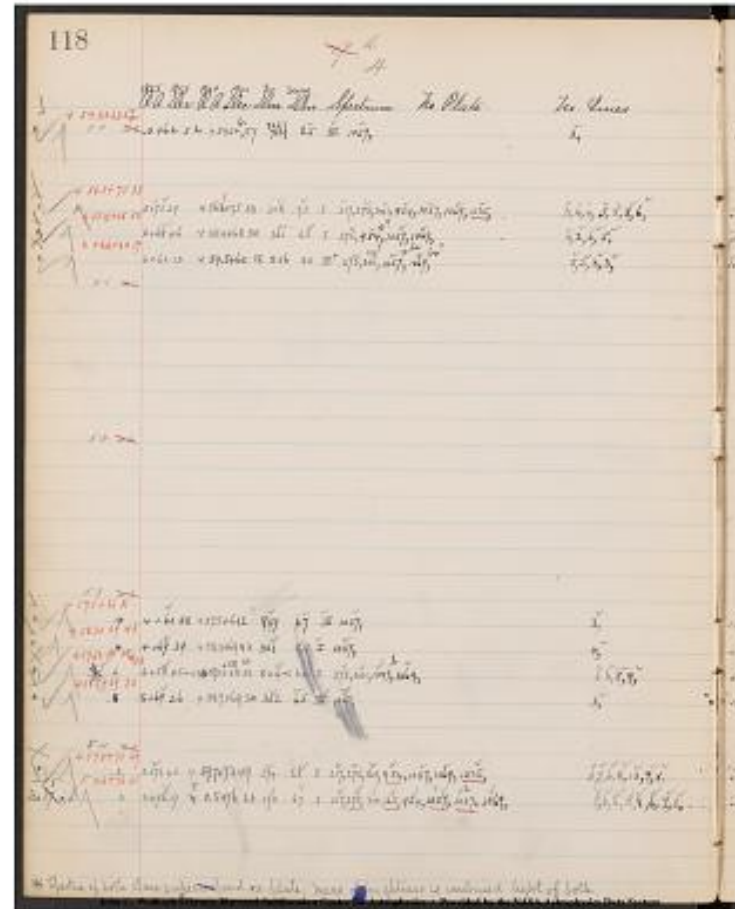
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~~9~~ <sup>4</sup>~~h~~

[[10 columned table]]

1855 R.A.	1855 Dec.	1900 R.A.	1900 Dec.	No. DM.	Mag. DM.	Spectrum.	No. Plate.	No. Lines.
4 54.2	+62 57 50	<del>40</del>	<del>^</del> <sup>[m]</sup>	.0	+62			
4 54.2	+62 57	<sup>^</sup> <del>[[722]]</del> 723	8.5	III	1057, 3,			
4 56.5	+75 33	.5	+75 29	4 56.	<del>6</del>			
5	+75 33	208	7.3	217, 275, 341,	954, 1057, 1069,	<u>1035,</u>		
				3, 4, 4, 5, 5, 8, 6,				
4 55.4	+68 50	.6	+68 46	4 55.4	+68 50	361	6.5	I
954	<sup>^</sup> <del>[[I ?]]</del>	1057, 1069,	4, 2, 6, 5,					
X	<sup>^</sup> 4 54.6	+60 17	.6	+60 13	4 54.5	+60 18	856	5.0
341	<sup>^</sup> <del>[[I ?]]</del>	1057	<sup>^</sup> <del>[[III bc]]</del>	1069	<sup>^</sup> <del>[[bc ?]]</del>	5, 2, 3, 3,		
51	<del>41</del>							
52	<del>42</del>							
53	<del>43</del>							
4 57.5	+61 2.4	.4	+60 58	4 57.5	+61 2	857	6.7	III
3,								
4 58.3	+69 43 .4	.4	+69 39	4 58.3	+69 43	301	8.5	I
4,								
X	<sup>^</sup> 4 57.5	+58 49 & 53	.6	.6	+58 45 & 49	4 57.5	<sup>^</sup> <del>[[+58 50]]</del>	+58
53	804 & 5	6.0	I	275, 341, 1057	<sup>^</sup> <del>[[b]]</del>	1069,	6, 6, 8, 9,	
4 58.7	+69 30 .8	.8	+69 26	4 58.7	+69 30	302	6.5	III
3, ..								
54	<del>44</del>							
X	<sup>^</sup> 4 59.8	+73 49 .2	.2	+73 45	4 59.7	+73 49	274	5.5
275, 165,	<u>954,</u>	<u>1057, 1069,</u>						
1035,	<u>6, 7, 6, 8, 10, 9, 8,</u>							
5 0.6	+76 21 No.	<del>17</del>	<del>75</del>	<sup>^</sup> .3	.3	+76		
17	<del>4</del>	<del>5 0.5</del>	+76 21	190	6.7	I	217,	
<u>275,</u>	<u>341,</u>	<u>165,</u>						
954,	<u>1057</u>	<sup>^</sup> <del>[[1]]</del>	1057	<sup>^</sup> <del>[[s]]</del>	<u>1069,</u>	5, 6, 6,		
3, 8, 6, 7, 8, ..								

\*Spectra of both plates super ~~im~~ posed on plate. Meas of brightness is combined light of both.



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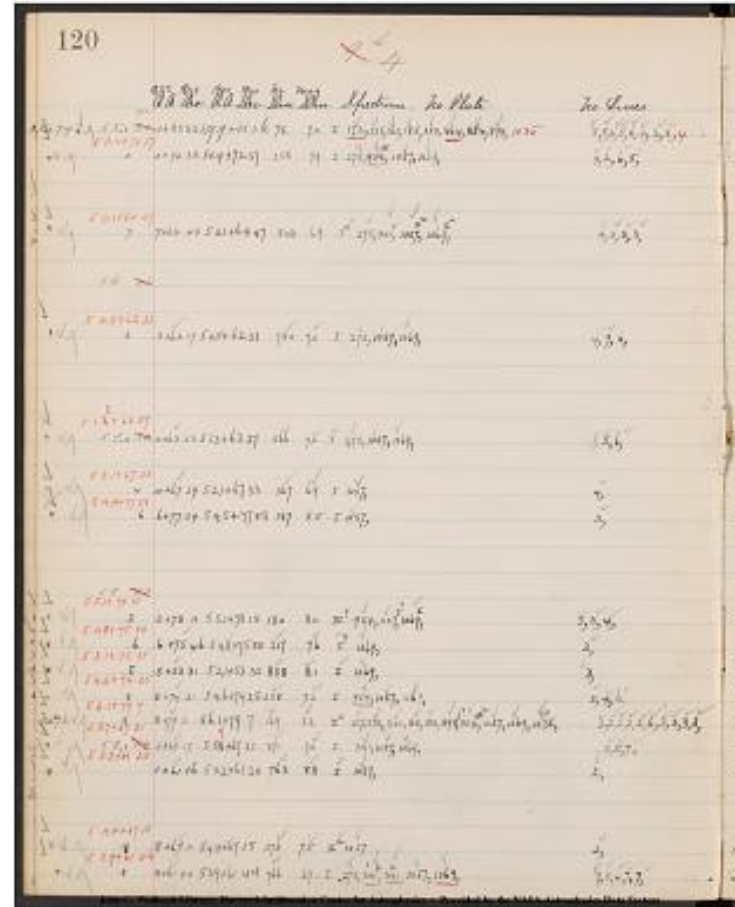
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120

~~9~~ <sup>4</sup>~~h~~

[10 columned table]

1855 R.A.	1855 Dec.	1900 R.A.	1900 Dec.	No. DM.	Mag. DM.	Spectrum.	No. Plate.	No. Lines.								
No. 74	. <sup>55</sup> .1	<del>50</del>	<sup>^</sup> [m]	.1	+85 32	5.9.9	+85 36	78   7.0     <u>173</u> , <del>275</del> , 165, 185, 353, <u>844</u> , <del>884</del> , 898, 1035   5, 5, 6, 5, 6, 4, 3, 8, 4,								
. <sup>5</sup> .0.4	+72 37.0	.0	+72 33   5 0.4	+72 37	258   7.9	275, <u>954</u> <sup>^</sup> [III], <u>1057</u> , 1069,   4, 2, 6, 5,	. <sup>5</sup> .0.1	+64 47.7   .7   +64 43   5 0.1	+64 47	500   6.9	a ?   275, 341 <sup>^</sup> [II],   1057 <sup>^</sup> [II a], 1069 <sup>^</sup> [II a],   4, 3, 3, 3,					
56	<del>51</del>															
. <sup>5</sup> .0.5	+62 21.3	.3	+62 17   5 0.5	+62 21	730   7.0	275, 1057, 1069,   4, 7, 6,	. <sup>5</sup> .1	<del>2</del>	<del>3</del>	+63 27 57.0	<del>52</del>	.0	+63 23   5 1.3	+63 27	566   7.0	275, 1057, 1069,   1, 5, 6,
. <sup>5</sup> .2.1	+67 33.4	.4	+67 29   5 2.1	+67 33	367   6.9	1057,   4,	. <sup>5</sup> .4.4	+77 58.6	.6	+77 54   5 4.5	+77 58	187   8.5	1057,   3,			
58	<del>53</del>															
. <sup>5</sup> .5.1	+78 50.2	.2	+78 11   5 5.1	+78 15	180   8.0	III ?   954, 1057 <sup>^</sup> [I ?], 1069 <sup>^</sup> [I],   3, 3, 4,	. <sup>5</sup> .4.8	+75 50.6	.6	+75 46   5 4.8	+75 50	217   7.6	?   1069,   3,			
. <sup>5</sup> .2.1	+53 35.5	.5	+53 31   5 2.1	+53 35	858   8.1	1069,   3,	. <sup>5</sup> .4.6	+74 25.8	.8	+74 21   5 4.6	+74 25	238   7.1				
<u>954</u>	<u>1057</u> , 1069,   5, 4, 6,	. <sup>5</sup> .6.1	+79 7 No. 72.8	.8	+79 3   5 6.1	+79 7	169   5.2	II a   217, 275, 341, 165, 185, 898 <sup>^</sup> [I ?], 954 <sup>^</sup> [III a],   1057, 1069, 1035 <sup>^</sup> [(1)],   2, 2, 2, 2, 2, 6, 3, 3, 3, 3,								
. <sup>5</sup> .3.7	+67 21 59.1	<del>54</del>	.1	+67 17   53. <del>8</del>	<del>9</del>	+67 21   371   7.0	341, 1057, 1069,   3, 5, 7,	. <sup>5</sup> .3.2	+61 20   .1	+61 16   5 3.2	+61 20	763   8.8	1057,   2,			
. <sup>5</sup> .4.4	+67 15.8	.8	+67 11   5 4.4	+67 15	373,   7.5	II a   1057   2,	. <sup>5</sup> .3.9	+61 44.8	.8	+61 40   5 3.9	+61 44	766   6.7	275, <u>341</u> <sup>^</sup> [1 b], <u>341</u> <sup>^</sup> [2], <u>1057</u> , <u>1069</u> , <u>7</u> , 5, 4, 7, 7,			



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K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remarks |

...  
|.2,.....~~55~~ ^~~[[MN[?]]~~ ~~[[S[2]]. | .6.8, 6.6, 6.8, 6.3 6.7,5.6 ^[[65]] .7.7, 7.1, 7.2, 7.1 .7.1, 7.2 5.7 ]~~ ~~[[symbol – checkmark]] | ..... |~~  
|.2, | S. | 6.9 6.7 ^[[6.5]] 6.4, 6.7 | 6.3 7.0 ^[[6.8]] 6.5, 6.8 | ~~[[symbol – checkmark]] | ... |~~  
| 10 ^[[9]] . 10, 10, | .SS | 7.1, 7.1, 6.4, 6.6, | 6.1, 6.5, 6.1, 6.3 | ~~[[symbol – checkmark]] | ..[[?]]679,684 |~~  
~~[[56~~ ~~[[symbol – checkmark]] |~~  
| 10,10,10 | .SS | 6.7, 6.4, 6.8 | 5.6, 6.0, 6.4 | ~~[[symbol – checkmark]] | ...~~  
|.2, | ~~[[57~~ .SS | 7.0, 6.7, 6.7, | 6.0, 6.4, 6.4, | ~~[[symbol – checkmark]] | ... |~~  
| 10, | 6.9 | 6.7 | ~~[[symbol – checkmark]] | . |~~  
|. | 7.0 | 7.5 | ~~[[symbol – checkmark]] | . |~~  
~~[[58~~ ~~[[symbol – checkmark]] |~~  
| 10, 10, | S. | 6.9, ^[[6.8]] 6.9, 6.8 | 7.6, ^[[7.5]] 7.4, 7.3 | ~~[[checkmark]] |~~  
...  
|. | 7.1 | 7.4 | ~~[[symbol – checkmark]] | . |~~  
|. | 7.1 | 6.5 | ~~[[symbol – checkmark]] | . |~~  
|. | S.S | 6.5, 6.7, 6.6 | 6.9, 6.9, 6.8 | ~~[[symbol – checkmark]] | /.../ |~~  
| 10, 10, 12, 10, 12, 10, 10, 10, ^[[12, 15]] | .....SSSSS | 6.7, 5.8, 5.5, 6.5, 6.0, 4.8 4.8, ^[[4.7]] 5.3, 5.3, ~~[[5.3~~ ~~[[symbol – checkmark]] 53[[?]]~~ ~~[[5.3]] | 6.5, 5.7, 5.8, 6.0, 5.4, 5.4 5.6 ^[[5.5]] 5.9, 5.9, 5.6 |~~ ~~[[symbol – checkmark]] | 60, 62, 70, 73, 82 . 654 ^[[668, 691, 704]] |~~  
| ... | ~~[[59~~ ~~[[symbol – checkmark]] ..S | 7.1, 6.8, 6.6 |~~  
6.6, 6.6, 6.4 | ~~[[symbol – checkmark]] | ... |~~  
| 10, | 7.0 | 6.6 | ~~[[symbol – checkmark]] | . |~~  
| 10, | 7.0 | 6.8 | ~~[[symbol – checkmark]] | 661, |~~  
|.5^[[7[[?]]]]... | .....S | 6.3, 6.7 . 5.9, 6.5 | 5.2, 6.0 . 5.5, 6.1 | ~~[[symbol – checkmark]] | ..[[6.3~~ ~~[[symbol – checkmark]] | 67... |~~

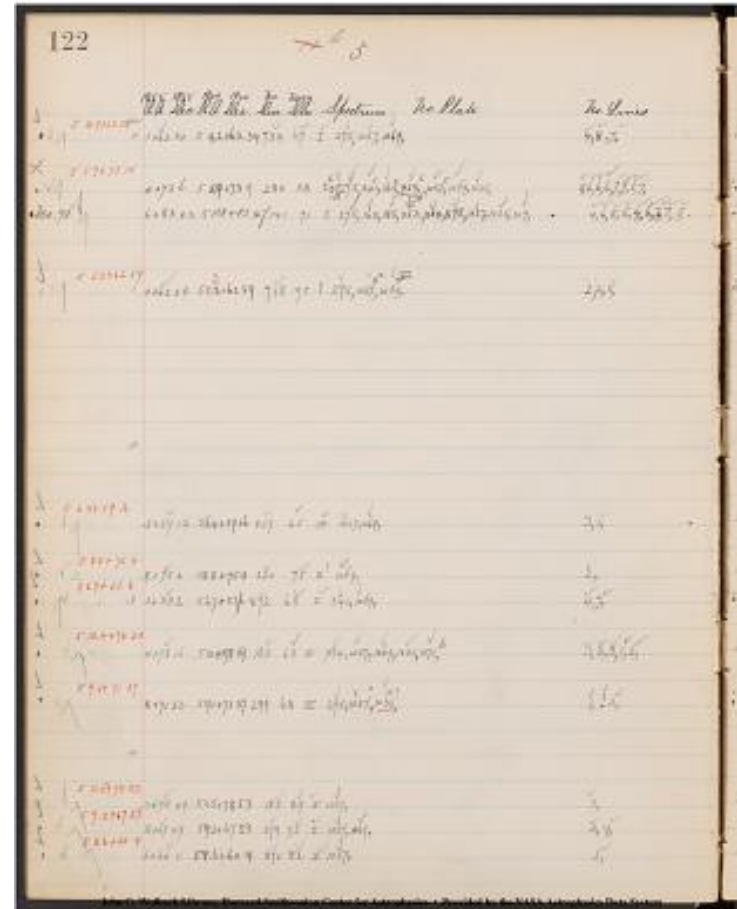
[illegible]

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~~10~~ ~~h~~ 5

[[10 columned table]]

1855 R.A.	1855 Dec.	1900 R.A.	1900 Dec.	No. DM.	Mag. DM.	Spectrum.	No. Plate.	No. Lines
.^ 5 4.3	+62 34 0 <sup>[[m]]</sup>	.1	+62 30	5 4.2	+62 34	734	6.7	I   275, 1057, 1069,   4, 8, 7,
X.^ 5 5.9	+73 10	.4	+73 6	5 5.9	+73 9	280	5.8	I d
<u>217</u> <sup>[[1]]</sup>	<u>275</u> <sup>[[1]]</sup>	<u>341</u> <sup>[[1]]</sup>	<u>165</u> <sup>[[1]]</sup>					
<u>954</u> <sup>[[1]]</sup>	<u>1057</u> <sup>[[1]]</sup>							1069, 1035,   5, 6, 6, 6, 7, 9, 8, 7,
No. 96	.6	+83 43	5 11.8	+83 47	14.1	7.1	I	275, 165, 185, 353 <sup>[[1]]</sup> , 884, 898, 1057, 1035, 1119,   . 4, 6, 5, 5, 4, 6, 7, 7, 5, .
.^ 5 5.2	+62 59 1	.0	+62 55	55.	<del>3</del>			+62 59   735   7.5   ?   275, 1057 <sup>[[1]]</sup> a,   1069 <sup>[[1]]</sup> ,   2, 2, 5,
2								5 6.4 +59 16   .5   +59 12   5 6.4   +59 16   857   6.5   III   1057, 1069, 3, 1,
.^ 5 8.8	+75 4	.8	+75 0	5 8.8	+75 4	220	7.5	II ?   1069,   2,
.^ 5 6.7	+53 6	.3	+53 2	5 6.7	+53 6	872	6.5	I   341, 1069,   4, 7,
.^ 5 10.4	+78 20	.4	+78 16	5 10.4	+78 19	183	6.8	III   954, 1057, 1069, 1035, 1071 <sup>[[b]]</sup> ,   3, 3, 3, 1, 2,
.^ 5 9.1	+71 37	.8	+71 33	5 9.1	+71 37	299	6.8	III   275, 1057 <sup>[[?]]</sup> , <u>1035</u> <sup>[[III ?]]</sup> ,   1, ? 3,
4								.^ 5 11.5 +78 53   .3   +78 49   5 11.5   +78 53   185   8.9   II   1057,   3,
.^ 5 9.2	+67 53	.5	+67 49	5 9.2	+67 53	379	7.5	I   1057, 1069,   3, 4,
.^ 5 8.6	+60 4	.6	+60 0	5 8.6	+60 4	870	8.2	II   1057,   2,



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124

~~10~~ ~~5h~~

| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |

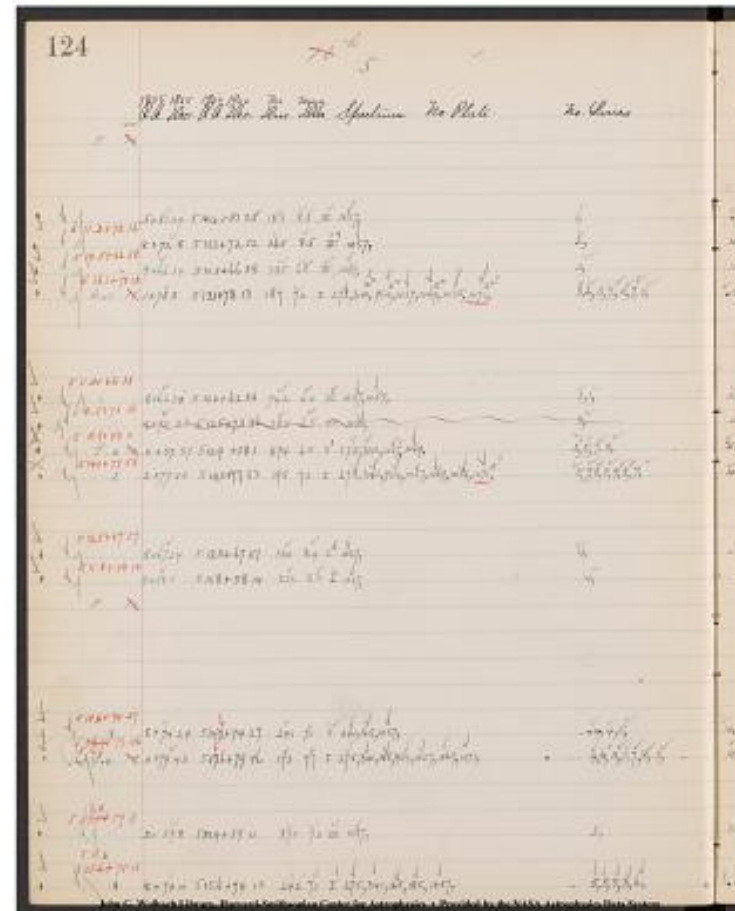
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5 11.2 + 72 12  
.8 + 72 8 511.2 + 72 12 265 8.5 II? 1057, 2  
5 10.5 + 66 38  
.9 + 66 344 510.5 + 6638 385 6.8 III 1069, 3  
5 13.1 + 7812  
6.1 .1 + 78 8 513.1 + 78 13 187 7.0 I  
275,341,954,1057,1069,1035,1017, 3,2,3,7,2,7,4

5 11.0 + 62 33  
.8 + 6230 511.0 + 6233 742 6.0 III 1057,1069, 3,1  
512.5 + 73 36  
~~5 10.9 + 580~~  
7.00 + 5757 510.9 + 581 874 6.5 I 275,341,1057,1069, 2,5,7,8  
5141 + 7753  
.2 .2 + 7750 514.0 + 7753 195 7.0 I 375,341,954,1057,1069,1035,1071,  
5,7,8,8,9,8,7

512.5 + 6727  
8 + 6724 512.5 + 6727 380 8.4 I 1057, 4  
511.8 + 58 14  
.9 + 58 11 511.8 + 5814 828 8.3 I 1057, 4

514.6 + 7427  
.8 .8 + 7424 514.7 + 7427 241 7.1 I 341,165,1057, 4,4,5,  
5 + 7946  
.9 .0 + 79 43 516.6 + 79 46 173 7.7 I  
275,341,185,954,1057,1069,1071, 4,6,3,5,7,8,5

513.4 + 5911 .5 + 59.8 513.4 + 5911 870 7.0 III 1057, 2  
515.6 + 7413  
.8 .8 + 7410 515.6 + 7413 242 7.1 I 275,341,165,185,1057, 5,5,5,3,6  
John G. Wolbach Library,Harvard-Smithsonian Center for Astrophysics  
Provided by the NASA Astrophysics Data System



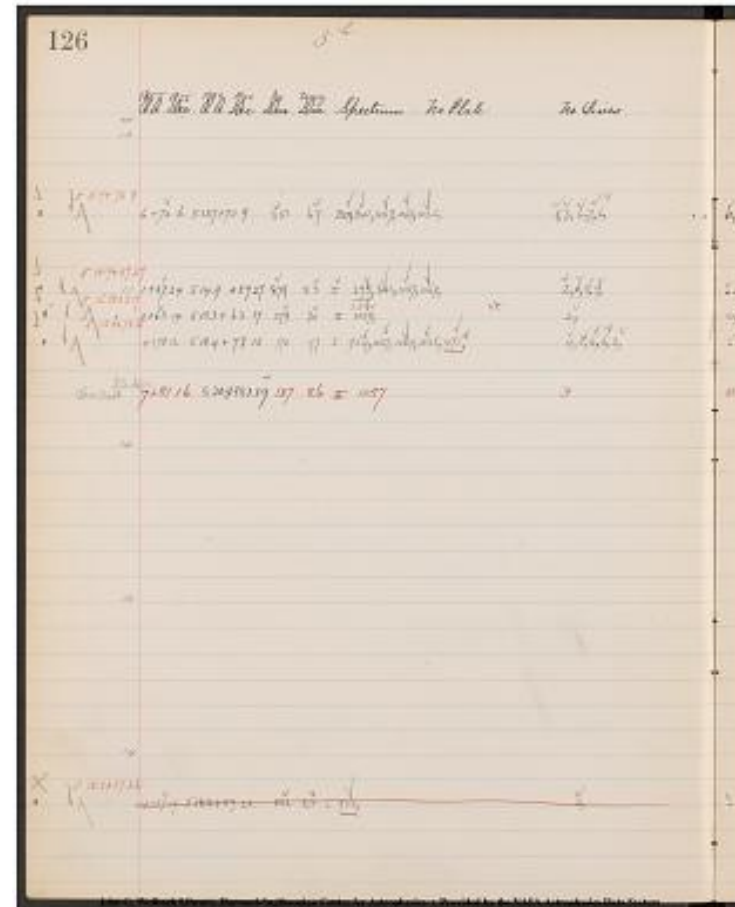
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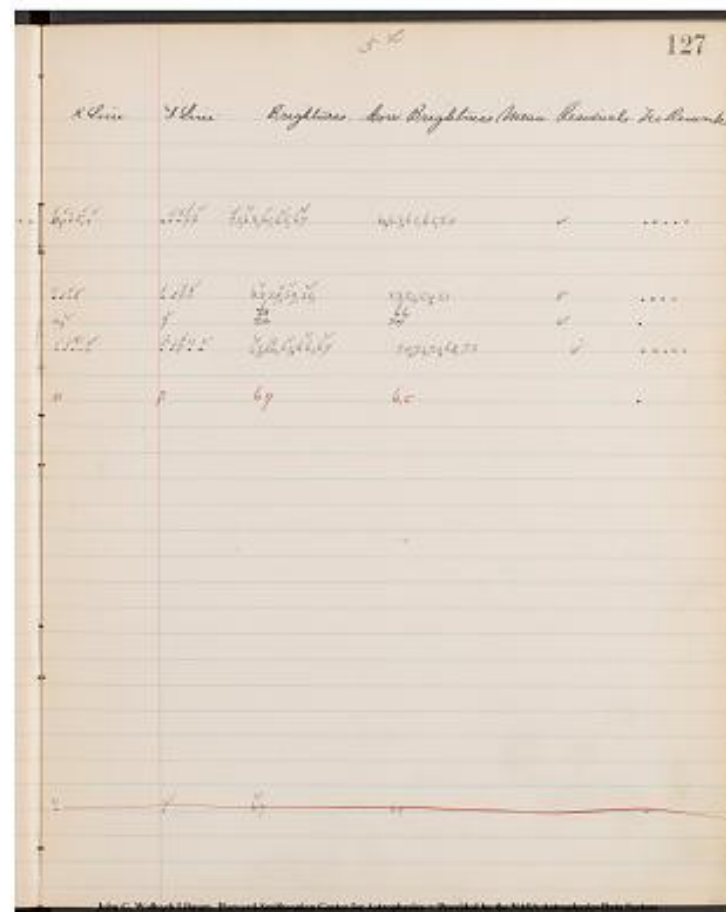
126  
5<sup>h</sup>[[h]]

[[10 columned table]]  
 | 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No. DM. | Mag. DM.  
 Spectrum. | No. Plate. | No. Lines. |  
 --- | --- | --- | --- | --- | --- |  
 10<sup>h</sup>[[m]] | | | | | |  
 | ^ 5 15.7 +70 9 | .6 | +70 6 | 5 15.7 | +70 9 | 351 | 6.7 | I | 275, 341,  
 1057, 1069, 1035, | 5, 3, 6, 7, 6, |  
^ 5 14.9 +57 27 11	.1	+57 2	5 14.9	+57 27	879	5.3	I	
275,	341, 1057, 1069,	2, 6, 8, 9,						
^ 5 15.3 +63 17	.0	+63 14	5 15.3	+63 17	579	7.0	II	1057,
2,								
^ 5 18.4 +78 15	.4	+78 12	5 18.4	+78 15	190	7.7	I	954, 1057,
 1069, 1035, | 1071<sup>d</sup>, | 4, 5, 6, 6, 3, |  
 R.A. Dec. | ? | .7 | +81 16 | 5 20.4 | +81 19 | 187 | 8.6 | II | 1057 | 3 |  
 12 | | | | | |  
 13 | | | | | |  
 14 | | | | | |  
 X ^ 5 18.3 +57 22 | ~~?~~ | +57 19 | 5 18.2 | +57 22 | 882 |  
 8.3 | I | 954, | 3, |



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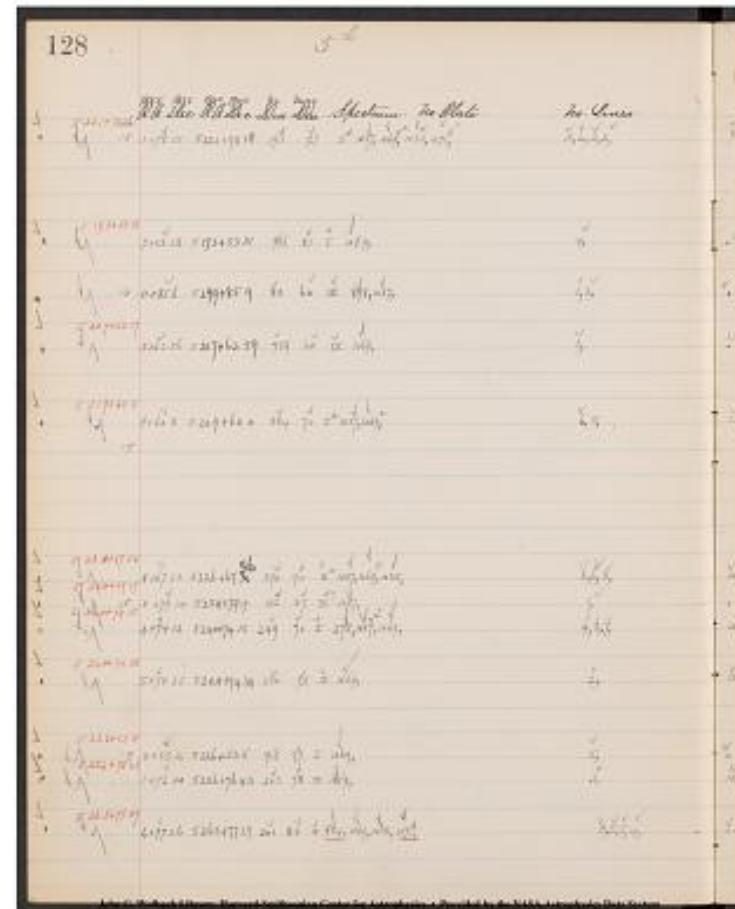
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128

5<sup>h</sup>[[h]]

[[10 columned table]]

1855 R.A.	1855 Dec.	1900 R.A.	1900 Dec.	No. DM.	Mag.	DM.	Spectrum.	No. Plate.	No. Lines.
5 22.1 +78 18 . ^ 15 <sup>h</sup> [[m]]	.1	+78 15	5 22.1	+78 18	193	7.7	I d		
1057, 1069 <sup>h</sup> [[II a]], 1035 <sup>h</sup> [[III]], 1071 <sup>h</sup> [[II ?]],									
5 19.3 +53 31 . ^ 1	.7	+53 28	5 19.3	+53 31	906	8.1	I	1069, 4,	
. ^ .16	.0	+85 6	5 29.9	+85 9	80	6.0	III	898, 1057,	1, 3,
5 20.7 +62 59 . ^ 1	.5	+62 56	5 20.7	+62 59	759	6.0	III	1069,	
5 20.9 +60 11 . ^ 1	.9	+60 8	5 20.9	+60 11	884	7.0	I d	1057,	
1069 <sup>h</sup> [[I]],								6, 5,	
17									
5 22.6 +67 56 . ^ 1	.8	+67 53	5 22.6	+67 <del>70</del>					
<del>56</del> 390	7.0	II a	1057, 1069 <sup>h</sup> [[I]],	1035,	2, 6, 3,				
5 25.4 +79 17 . ^ 1	.8	.0	+79 14	5 25.4	+79 17	182	8.7	III ?	
1057,								1,	
5 24.0 +74 15 . ^ 1	.2	+74 12	5 24.0	+74 15	249	7.0	I	275,	
1057 <sup>h</sup> [[III a ?]],								1069,	4, 3, 7,
5 24.4 +74 38 . ^ 1	.5	+74 35	5 24.4	+74 38	250	7.5	II	1069,	
2,									
5 22.6 +53 5 . ^ 1	.9	+53 2	5 22.6	+53 5	915	7.7	I	1069,	5,
5 25.6 +76 43 . ^ 1	.1	+76 40	5 25.6	+76 43	203	7.8	II	1069,	
3,									
5 26.3 +77 29 . ^ 1	.6	+77 26	5 26.3	+77 29	201	8.3	I		
<u>954</u> ,								<u>1069</u> ,	<u>1035</u> ,
<u>1071<sup>h</sup>[[d]]</u> ,								<u>3</u> ,	<u>5</u> ,
<u>4</u> ,									



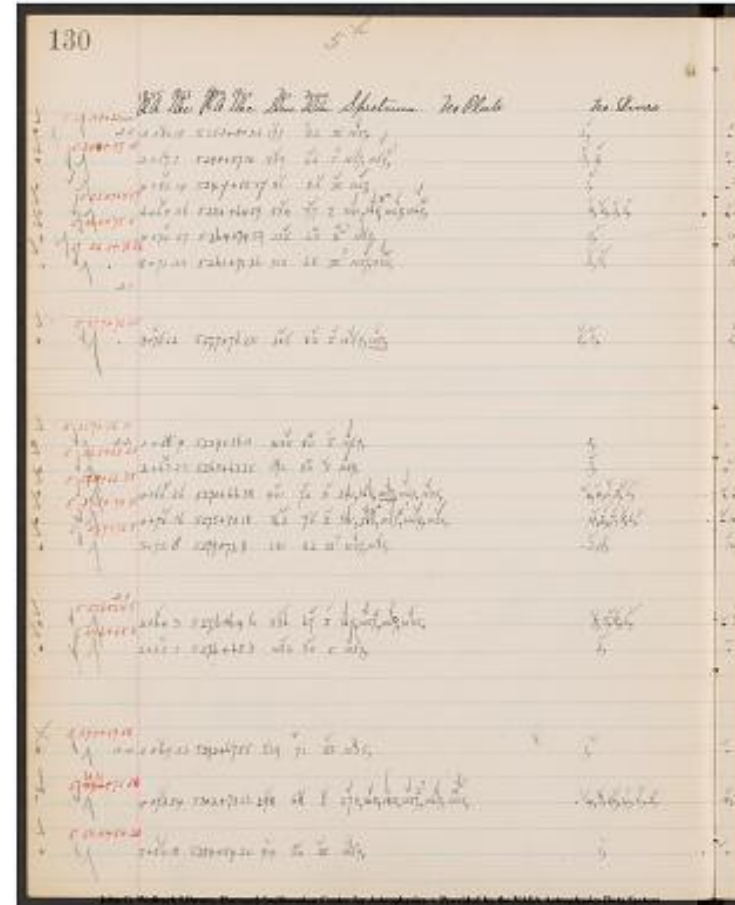
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[illegible]



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[illegible]

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Extracted Dec-02-2022 11:16:48

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5<sup>h</sup>[[h]]

[[6 columned table]]

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remarks |

|. ^[[]]S ^[[]]7.0 ^[[6.9 ^[[]]]]7.7 ^[[7.6]]|. |

|. ^[[]]10, ^[[]]. ^[[]]S ^[[]]6.9, ^[[]]6.8, ^[[]]6.4, 6.3||. |

|. ^[[]]S ^[[]]6.9 ^[[6.7 ^[[]]]]8.4 ^[[8.2]]|. |

|. ^[[]]10, ^[[]]. ^[[]]10, ^[[]]. ^[[]]. ^[[]]S ^[[]]7.0, ^[[]]7.3, ^[[]]6.8, ^[[]]7.0 ^[[6.6 ^[[]]]]6.4, 5.9, 6.5, 6.7 ^[[6.3]]|. 79 ^[[]]. |

|10, ^[[]]S ^[[]]6.5 ^[[]]6.8||683 ^[[]]

|10, ^[[]]10, ^[[]]. ^[[]]S ^[[]]6.8 ^[[6.5 ^[[]]]]6.9 ^[[6.8 ^[[]]]]6.8 ^[[6.5]]6.6 ^[[6.5]]|. |

|5, ^[[]]. ^[[]]. ^[[]]. ^[[]]6.8, ^[[]]7.0 ^[[]]7.2, 7.5||. |

|. |. |6.9 ^[[]]6.3||. |

|. ^[[]]. ^[[]]6.9 ^[[]]6.3||. |

|. ^[[]]. ^[[]]7.1 ^[[]]6.7||. |

|. ^[[]]. ^[[]]10, ^[[]]2, ^[[]]10, ^[[]]. ^[[]]. ^[[]]. ^[[]]S ^[[]]. ^[[]]6.6 ^[[]]. ^[[]]6.4, ^[[]]6.0, ^[[]]6.4, ^[[]]6.1, 6.2, 5.8, 5.9||.....|

|. ^[[]]10, ^[[]]5, ^[[]]. ^[[]]. ^[[]]. ^[[]]. ^[[]]S ^[[]]S ^[[]]S ^[[]]6.9, ^[[]]6.9, ^[[]]6.5, ^[[]]6.4, ^[[]]6.3, ^[[]]6.6, 5.7, 6.5, 6.4, 6.0||.84 ^[[]]. |

|10, ^[[]]. ^[[]]. ^[[]]. ^[[]]6.9, ^[[]]6.9, ^[[]]7.0, 6.7||. |

|. ^[[]]? ^[[]]. ^[[]]. ^[[]]. ^[[]]S ^[[]]S ^[[]]S ^[[]]6.5, ^[[]]6.0, ^[[]]5.9, ^[[]]6.6 ^[[]]5.1, 5.7, 5.6, 6.0||.....|

|. ^[[]]. ^[[]]7.0 ^[[]]6.7||. |

|. ^[[]]S ^[[]]7.1 ^[[6.9 ^[[]]]]6.8 ^[[6.6]]|. |

|10, ^[[]]. ^[[]]10, ^[[]]10, ^[[]]10, ^[[]]10, ^[[]]. ^[[]]. ^[[]]. ^[[]]S ^[[]]. ^[[]]6.8, ^[[]]7.0, ^[[]]6.9, ^[[]]6.3, ^[[]]6.6, ^[[]]6.9 ^[[]]6.3, 6.1, 5.9, 6.5, 6.8, 6.8||.....714|

|. ^[[]]S ^[[]]7.3 ^[[7.0 ^[[]]]]6.7 ^[[6.4]]|. |

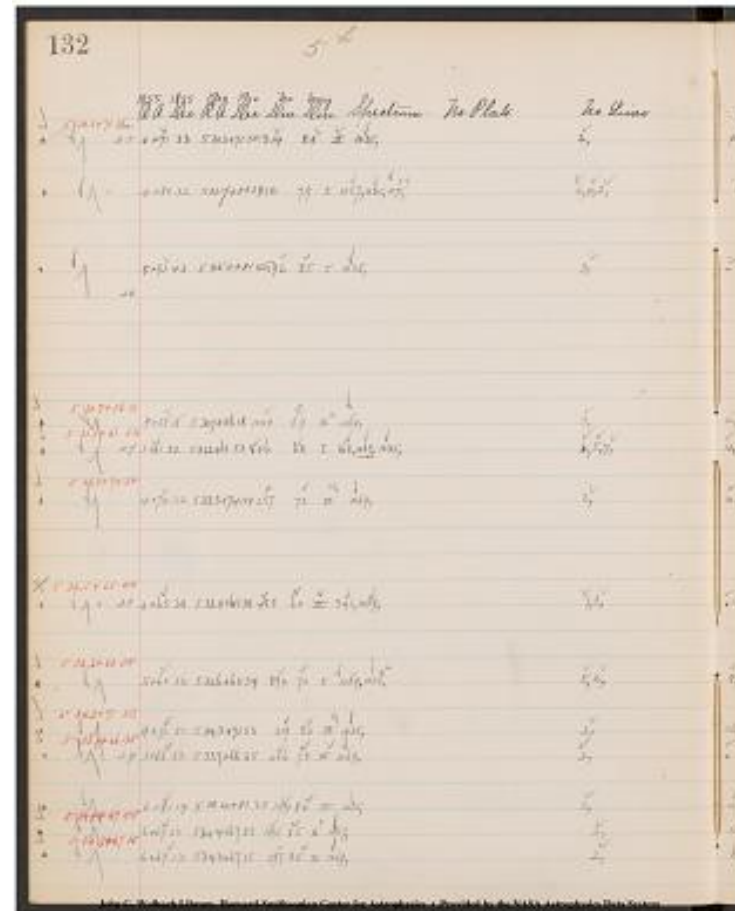
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5h

| | 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
 Spectrum | No Plate | No Lines |  
 530.3+7135  
 25.0+7133| 530.3+713514|8.0||1035 21  
 .4+8032|533.7+8034181|7.9||1057, 1035, 1071, 6, 4, 2  
 .8+8143|535.0+8145192|8.5||1035, 3,  
 26  
 530.7+5618  
 .9+5616|530.7+56.18|1044|6.9||1069, 3,  
 531.3+6154  
 21.1+6152|531.2+6153806|6.8||165, 1069, 1035, 3, 5, 7  
 533.3+7434  
 .4+7432|533.3+7434|257|7.2||1069, 3,  
 532.5+6540  
 28.0+6538|5324+6538|5324+6538|6.0||341, 1009, 1, 3  
 534.6+6034  
 .5+6032|5326+6034|894|7.0||1069, 1035, 5, 2,  
 534.3+7153  
 .9+71|51|5.34.3+7152| 319|8.0||? 1035, 2,  
 533.7+6635  
 29.1+6633|533.7+6635|406|7.8||1069, 2,  
 .6+8119|538.4+8120|1948.0||1035, 3,  
 534.4+6755  
 .6+6753|534.4+6755|390|8.5||1057, 2,  
 534.3+6715  
 .6+6713|534.3+6715|3978.5||1069, 2,



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5<sup>h</sup>[[h]]

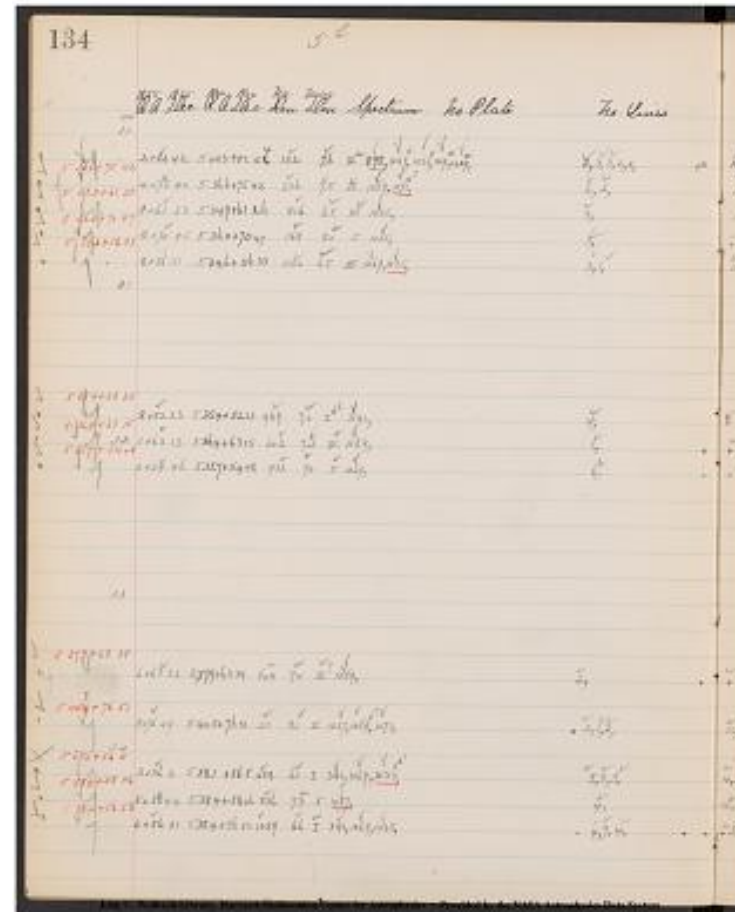
[[10 columned table]]

| 1855 RA|1855 Dec|1900 RA|1900 Dec|No DM|Mag.

DM|Spectrum|No Plate|No Lines|

1855 RA	1855 Dec	1900 RA	1900 Dec	No DM	Mag.	DM	Spectrum	No Plate	No Lines
30 <sup>h</sup> [[m]]	.2	+82 42	5 40.3	+82 4	<del>2</del> 4				
152	7.6	II <sup>a</sup> [[a]]	[[ <u>898</u> ]]	1057 <sup>h</sup> [[h]]	1035 <sup>h</sup> [[h]]				
1119 <sup>h</sup> [[h]]	1229 <sup>h</sup> [[h]]	2, 3, 3, 2, 2,							
5 36.6	+75 42	.4	+75 40	5 36.6	+75 42	236	7.5	II	
1069	[[ <u>1071</u> ]]	[[ <u>1071</u> ]] <sup>h</sup> [[h]]	[[ <u>1071</u> ]]	2, 2,					
5 35.0	+61 25	.9	+61 23	5 34.9	+61 26	816	6.5	III	1035, 3,
5 36.0	+70 47	.8	+70 45	5 36.0	+70 47	368	8.0	III	1035, 3,
5 34.6	+56 33	.8	+56 31	5 34.6	+56 33	1050	6.5	III	1069
[[ <u>1035</u> ]]	[[ <u>1035</u> ]]	[[ <u>1035</u> ]]	[[ <u>1035</u> ]]	[[ <u>1035</u> ]]	[[ <u>1035</u> ]]	[[ <u>1035</u> ]]	[[ <u>1035</u> ]]	[[ <u>1035</u> ]]	[[ <u>1035</u> ]]
31									
5 35.4	+52 25	.8	+52 23	5 35.4	+52 25	989	7.0	II <sup>d</sup> ?	341, 4,
5 36.4	+63 15	.1	+63 13	5 36.4	+63 15	602	7.3	III	1069, 1,
5 35.7	+54 48	.0	+54 46	53 5.7	+54 48	932	7.0	II	1069, 6,
33									
5 37.9	+63 34	.6	+63 32	5 37.9	+63 34	604	7.4	III <sup>a</sup> ?	1069, 2,
5 40	[[ <del>1035</del> ]]	[[ <del>1035</del> ]]	[[ <del>1035</del> ]]	[[ <del>1035</del> ]]	[[ <del>1035</del> ]]	[[ <del>1035</del> ]]	[[ <del>1035</del> ]]	[[ <del>1035</del> ]]	[[ <del>1035</del> ]]
51	211	8.1	III	1057, 1069 <sup>h</sup> II,	1071, 2,	1, 2,			
33									
5 38.1	+56 4	.3	+56 2	5 38.1	+56 5	1058	6.1	II	341, 1069,
[[ <u>1035</u> ]]	[[ <u>1035</u> ]]	[[ <u>1035</u> ]]	[[ <u>1035</u> ]]	[[ <u>1035</u> ]]	[[ <u>1035</u> ]]	[[ <u>1035</u> ]]	[[ <u>1035</u> ]]	[[ <u>1035</u> ]]	[[ <u>1035</u> ]]
5 38.4	+58 46	.5	+58 44	5 38.4	+58				
46	856	7.3	III	[[ <u>1057</u> ]]	[[ <u>1057</u> ]]	[[ <u>1057</u> ]]	[[ <u>1057</u> ]]	[[ <u>1057</u> ]]	[[ <u>1057</u> ]]
5 38.4	+56 53	.6	+56 51	5 38.4	+56 53	1059	6.6	II	341, 1069,
1035	4, 7, 4,								

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5<sup>h</sup>

[[6 columned table]]

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remarks |

| 10, ^[[10]]10, ^[[10]]10, ^[[10]]10, 10, |. ^[[10]]S^[[10]]S^[[10]].. | 6.6, ^[[10]]6.5, ^[[10]]6.7, ^[[10]]6.9, ^[[10]]6.8 ^[[10]]7.6, 7.5, 7.4, 7.5, 7.5 | ~~[[10]]634 ^[[10]]....~~ |

| 10, ^[[10]]10, ^[[10]]10, |. ^[[10]]S^[[10]]S^[[10]].. | 6.8 ^[[10]]7.0 ^[[6.9]]7.1 7.4 ^[[7.3]] |.. |

| 10, ^[[10]]S^[[10]]7.0 ^[[6.9]]6.3 ^[[6.2]] |.. |

|. ^[[10]]S^[[10]]6.9 ^[[6.6]] |.. |

| 10, ^[[10]]2, ^[[10]]S^[[10]]S^[[10]]6.9 ^[[6.6]]7.1 ^[[6.9]]6.3 ^[[6.0]]6.2 ^[[6.0]] |.. |

| 2 ^[[10]]S^[[10]]6.8 ^[[5.8]] |.. |

|. ^[[10]]S^[[10]]7.1 ^[[6.9]]6.8 ^[[6.6]] |.. |

|. ^[[10]]S^[[10]]6.6 ^[[6.0]] |.. |

|. ^[[10]]S^[[10]]7.1 ^[[6.9]]6.8 ^[[6.6]] |.. |

| 10, ^[[10]]10, ^[[10]]10, |. ^[[10]]S^[[10]]S^[[10]]6.9, ^[[10]]6.9, ^[[10]]7.1, ^[[10]]7.3, 7.3, 7.6 |.. |

| 10, ^[[10]]2, ^[[10]]5, ^[[10]]S^[[10]]S^[[10]]6.5, ^[[10]]6.3, ^[[10]]6.6 ^[[10]]5.6, 5.7, 5.7 |.. |

| 10, ^[[10]]S^[[10]]7.0 ^[[6.5]] |.. |

|. ^[[10]]5, ^[[10]]S^[[10]]S^[[10]]7.0, ^[[10]]6.6, ^[[10]]6.8 ^[[10]]6.2, 6.1, 6.0 |.. |

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Handwritten astronomical catalog page 135 from the Williamina P. Fleming Catalog of E. Stars #22. The page contains a table with columns for K Line, F Line, Brightness, Corr. Brightness, Mean Residuals, and No. Remarks. The handwriting is in cursive and the page is aged.

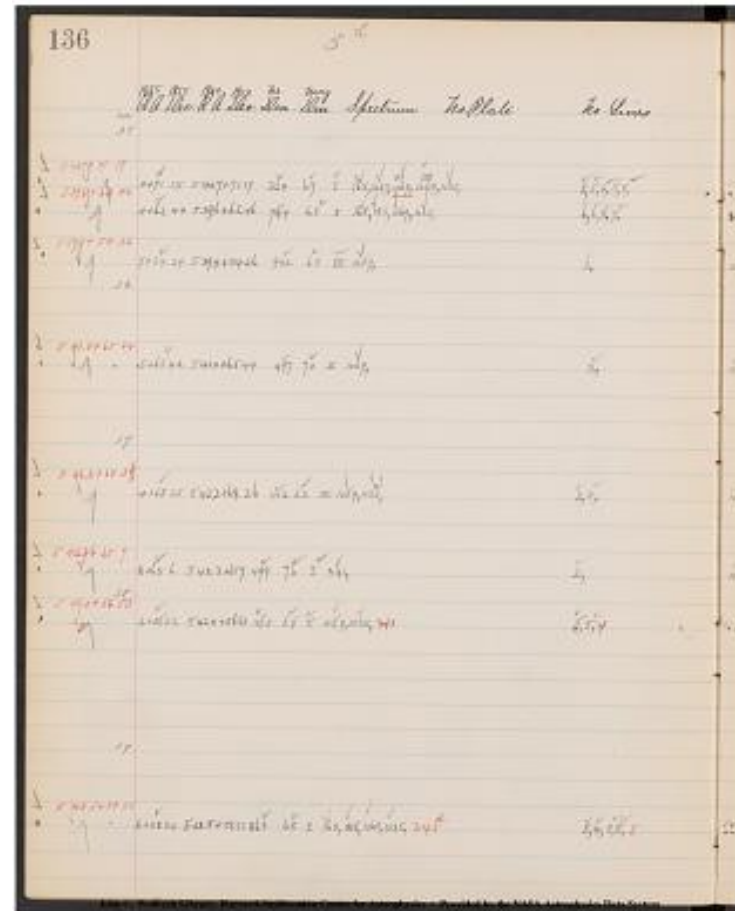


136

5<sup>h</sup>[[h]]

[[10 columned table]]

1855 R.A.	1855 Dec.	1900 R.A.	1900 Dec.	No. DM.	Mag. DM.	Spectrum.	No. Plate.	No. Lines
35 <sup>h</sup> [[m]]								
5 40.7 +71 17 . ^	. 4	+71 15	5 40.7	+71 17	324	6.7	I	165,
1057, [[u]] 1069 <sup>h</sup> [[1]]								1035,   5, 5, 6, 5, 8,
5 39.6 +62 46 . ^	. 4	+62 44	5 39.6	+62 46	784	6.5	I	165, 185,
1069, 1035,   6, 6, 8, 7,								
5 39.4 +54 26 . ^	. 7	+54 24	5 39.4	+54 26	942	6.5	III	1069,
3,								
36								
5 41.0 +65 44 . ^	. 5	+65 42	5 41.0	+65 44	497	7.0	II	1069,
3,								
37								
5 42.2 +68 2	[[strikethrough]] 7	[[strikethrough]] 6 . ^	. 4	+68 25	5			
42.2   +68 26   412   6.2   III   1069, 1035 <sup>h</sup> [[III ?]]								3, 3,
5 42.3 +65 7 . ^	. 8	+65 6	5 42.3	+65 7	499	7.6	I	341,   2,
5 42.0 +56 53 . ^	. 2	+56 52	5 42.0	+56 53	1065	6.6	I	1069,
1035, 341   6, 5, 4								
39								
5 43.5 +58 55 . ^	. 6	+58 54	5 43.5	+58 55	863	6.5	I	165,
185, 1069, 1035, 341 <sup>h</sup> [[d]]								5, 4, 8, 8, 5



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5<sup>h</sup>[[h]]

[[6 columned table]]

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No.  
Remarks |

| ^[[5]]5, ^[[0]]^[[0]]2, ^[[0]]^[[0]]S^[[0]]7.4, ^[[0]]6.5, ^[[0]]6.7, ^[[0]]  
6.5, ^[[0]]6.3, 6.5, 6.7, 6.2 ||.....|

[[symbol -  
speed]], 10, ^[[0]]2, ^[[0]]^[[0]]^[[0]]S^[[0]]S^[[0]]6.5, ^[[0]]6.5, ^[[0]]6.3, ^[[0]]6.3^[[0]]  
5.0, 4.9, 5.9, 5.6 ||.....|

| 10, ^[[0]]S^[[0]]7.3^[[0]]7.0^[[0]]6.7^[[0]]6.4 ||..|

| 10^[[0]]S^[[0]]6.6^[[0]]6.4^[[0]]^[[0]]^[[0]]

| 10, ^[[0]]10, ^[[0]]S^[[0]]S^[[0]]6.8^[[0]]6.6^[[0]]6.5^[[0]]6.7^[[0]]6.5^[[0]]6.2^[[0]]6.1^[[0]]  
||..|

| 10, ^[[0]]^[[0]]7.2^[[0]]6.6 ||..|

| ^[[0]]^[[0]]10^[[0]]S^[[0]]^[[0]]^[[0]]6.5, ^[[0]]6.6^[[0]]68|6.0, 5.8 5.8 ||...|

| ^[[0]]^[[0]]^[[0]]^[[0]]10, ^[[0]]^[[0]]S^[[0]]S^[[0]]6.9, ^[[0]]6.8, ^[[0]]6.3, ^[[0]]6.3, ^[[0]]6.5|5.3, 5.1, 5.8, 5.5 5.5 ||.....|

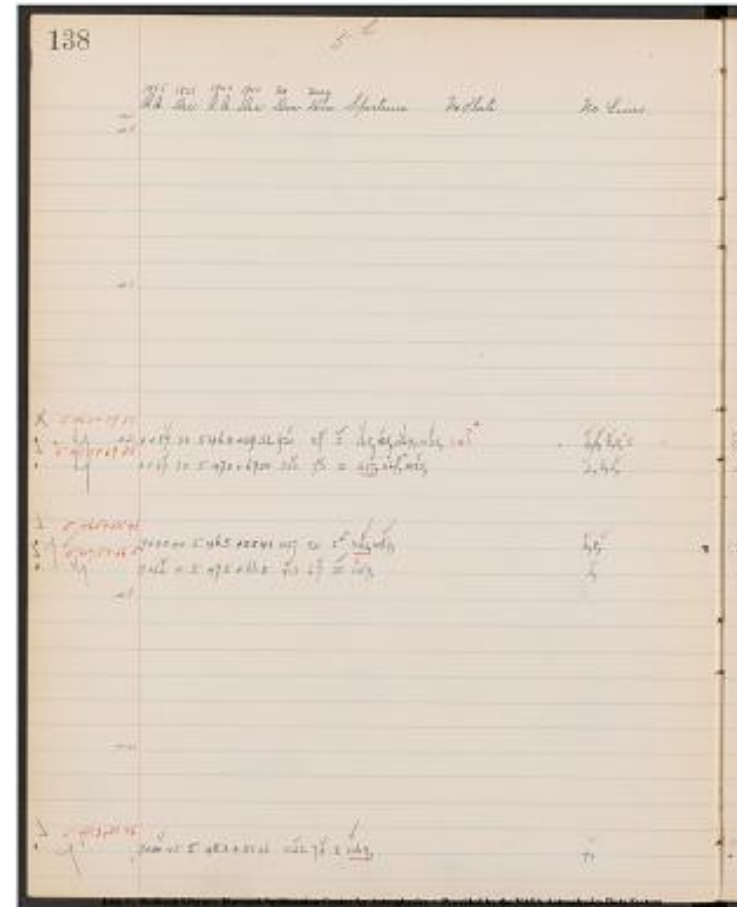
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Handwritten astronomical observation table from Project PHaEDRA, page 137. The table has 6 columns: K Line, F Line, Brightness, Corr. Brightness, Mean Residuals, and No. Remarks. It contains several rows of handwritten data in cursive script, with some entries in red ink. The page is numbered 137 in the top right corner.

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138  
5<sup>h</sup>[h]

[[10 columned table]]  
 | 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No. DM. | Mag. DM.  
 Spectrum. | No. Plate. | No. Lines. |  
 --- | --- | --- | --- | --- | --- |  
 40<sup>h</sup>[m] | | | | | |  
 41 | | | | | |  
 X 5 46.0 +59 51 . ^ 42 | .0 | +59 50 | 5 46.0 | +59 52 | 920 | 5.7 | I | 165,  
 185, 1069, 1035, 341<sup>h</sup>[[d]] | 6, 6, 8, 8, 5 |  
 | 5 47.0 +69 35 . ^ | .0 | +69 34 | 5 47.0 | +69 35 | 350 | 7.3 | II |  
 [[underlined]] 1057, [[/underlined]] 1069<sup>h</sup>[[a]] , 1035, | 2, 3, 5, |  
 | 5 46.5 +55 41 . ^ | .7 | +55 40 | 5 46.5 | +55 41 | 1027 | 5.0 | I d ? |  
 [[underlined]] 341, [[/underlined]] 1069, | 6, 8, |  
 | 5 47.5 +66 5 . ^ | .9 | +66 4 | 5 47.5 | +66 5 | 413 | 6.7 | III | 1069, 3, |  
 43 | | | | | |  
 44 | | | | | |  
 | 5 48.3 +51 46 . ^ | .7 | [[strikethrough]] +51 [[/strikethrough]] 45 | 5  
 48.3 | +51 46 | 1122 | 7.0 | I | [[underlined]] 1069, [[/underlined]] 4, |



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5<sup>h</sup>[[h]]

[[6 columned table]]

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remarks |

| 1, ^[[2]], ^[[.]], ^[[10^[[?]]]], ^[[.]], ^[[S^[[S^[[.]]]], ^[[.]]| 6.1, ^[[5.9]], ^[[5.7]], ^[[5.5]], ^[[6.0]]| 4.5, 4.2, 5.2, 4.7[[/strikethrough]]0[[/strikethrough]]5.3||.....|

| 10, ^[[10]], ^[[.]], ^[[.]], ^[[S^[[S^[[.]]]], 6.8, ^[[6.9]], ^[[6.6^[[.]]| 6.7, 6.8, 6.2||.693, ^[[.]]|

|. ^[[.]], ^[[.]], ^[[S^[[.]]| 6.2, ^[[5.7^[[.]]| 5.3, 5.1||..|

| 10, ^[[S^[[.]]| 7.1^[[6.8^[[.]]| 6.9^[[6.6]]||..|

|. ^[[.]], ^[[.]]| 7.0^[[.]]| 6.3||..|

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5^h

| | 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |  
551.4+7535  
[[checkmark]]  
.2+[[checkmark]]7534|5|41. [[striketrough]]8[[/striketrough]]4 +7535|  
247[[checkmark]]|6.2[[checkmark]]|1[[striketrough]]275. [[/striketrough]]|  
[[checkmark]]1019. [[checkmark]]. [[strike through]] 1035. [[checkmark]],  
1071. [[checkmarks]]|[[!]]| [[checkmarks]] 4[[striketrough]],  
3[[checkmarks]], 4 [[striketrough]], 2[[checks]]

549.3+5539  
5+5538[[checkmark]]|5|49.3+5539|1032[[checkmark]]|4. 1[[checkmark]]  
|[[?]]|1019 [[checkmark]] 4[[checkmarks]],

549.8+6022  
7+6021|549.9+6022|915[[checkmark]]|7.1[[checkmark]] || [[a]] 1035,  
[[checkmark]] 3[[checkmarks]],

550+671  
8+6660|  
550.4+67|0|419[[checkmark]]|7.0|[[d]]|341, 1009, 1035[[checkmark]]  
4[[checkmark]], 7[[checkmark]], 4[[checkmarks]]

46

552.4+741  
.6+7360|552.4+741|311[[checkmark]]|7.3[[checkmarks]]  
||[[?]]|1069[[checkmark]], 1071[[checkmark]]|[[!a?]]  
2[[checkmark]], 2[[checkmark]]

551.3+1531  
.8+6530|551.3+6531|507[[checkmark]]|7.0[[chackmark]]|[[!a]]165[[check  
mark]], 1069, [[checkmark]]|[[!]] 2 [[checkmarks]], 7 [[checks marks]]

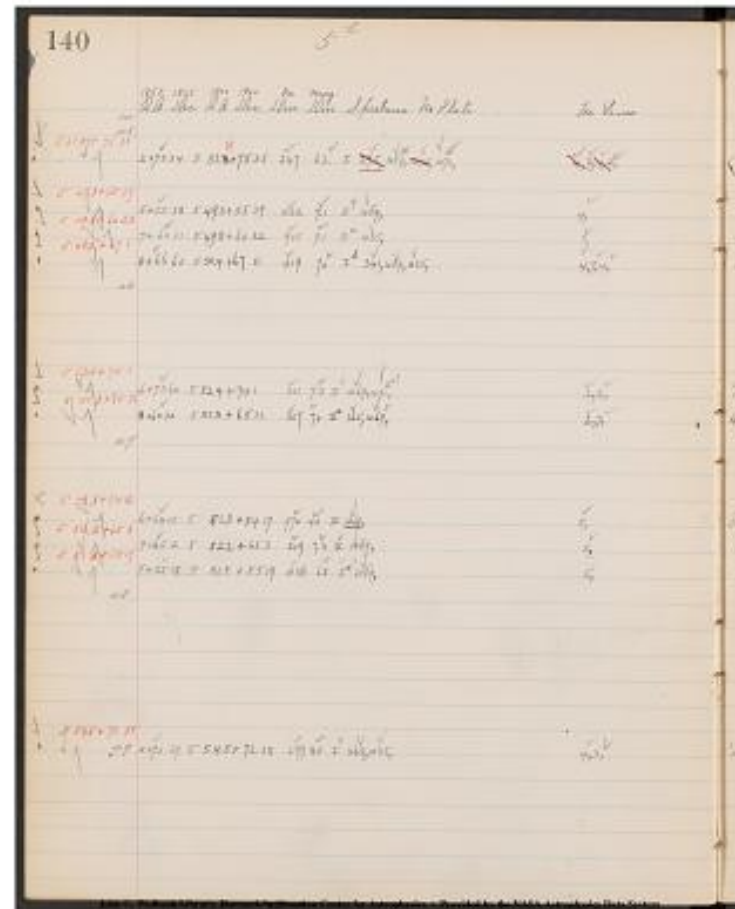
47

551.3+5416  
.6+5415[[checkmarks]]|5|51.3+5417|970[[checkmark]]|4.o[[checkmark]]||  
| 1069[[checkmark]], 5[[checkmarks]],

552.2+653  
7+652|5|52.2+653|509[[checkmark]]|4.3[[checkmark]]|[[checkmark]]100  
9, 3[[checkmarks]],

551.5+5519  
.7+5518|5|51.5+5519|1030[[checkmark]]|6.5[[checkmark]]|[[!a?]]|1009,  
5[[checkmarks]],

48

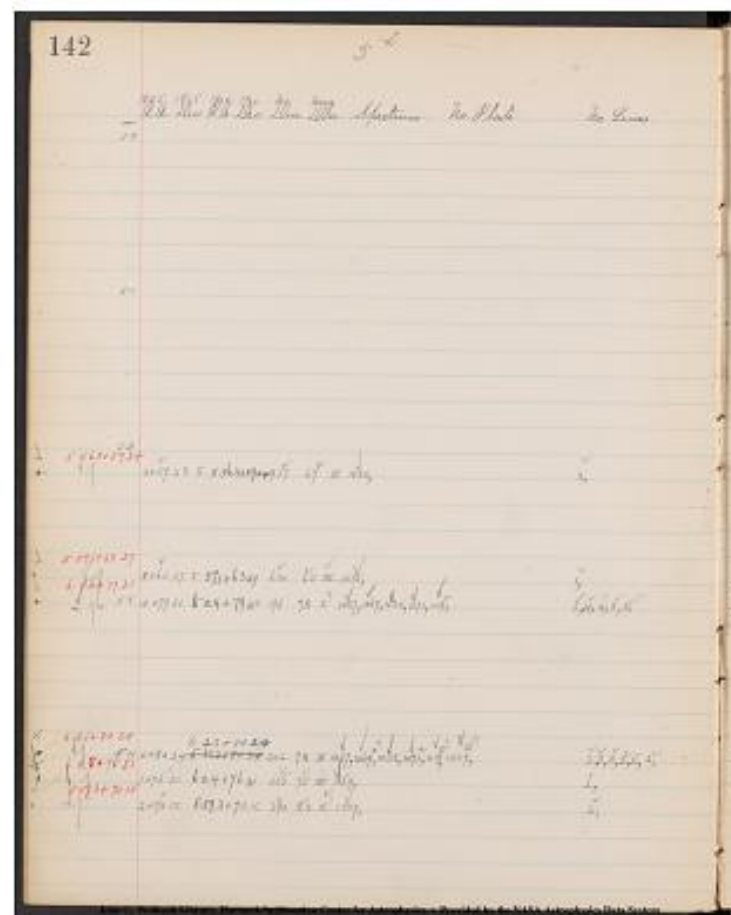


554.5+7238  
.49.o+72[37|5|54.5+7238|299[[checkmark]]| 8.0 [checkmark]] I[[?]]  
1069[[checkmark]] 1035 [[checkmark]], 4[[checkmarks]],3[[checkmarks]]

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5<sup>h</sup>

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remarks |

| 10, <sup>h</sup> | S<sup>h</sup> | 7.1<sup>h</sup> | [6.8<sup>h</sup>] | 6.3<sup>h</sup> | [6.0] | |

| <sup>h</sup> | S<sup>h</sup> | 7.2<sup>h</sup> | [7.0<sup>h</sup>] | 6.6<sup>h</sup> | [6.4] | |

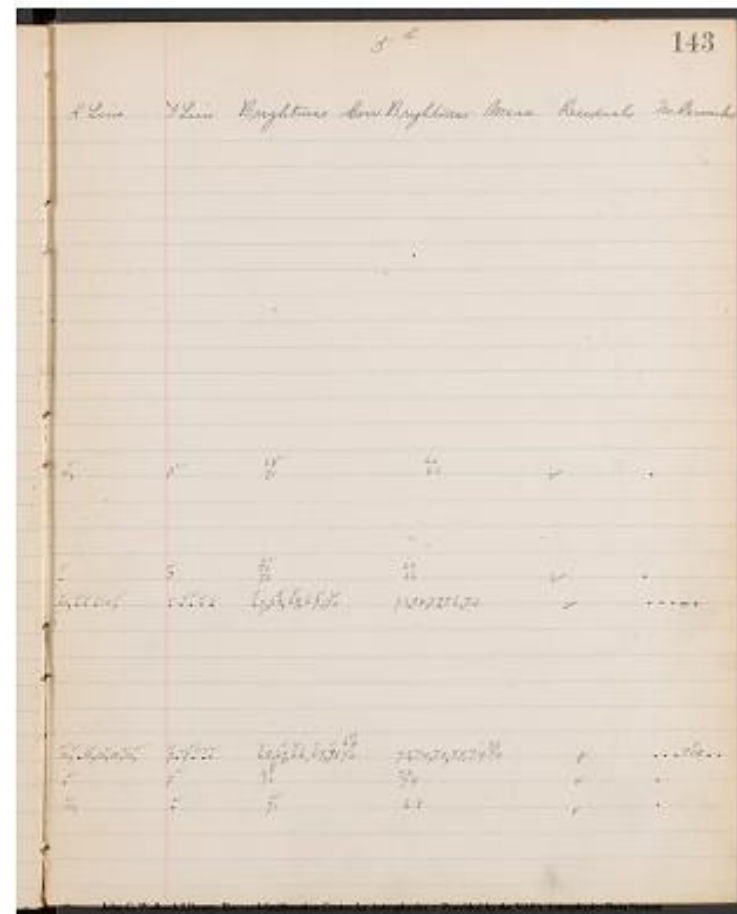
| 10, <sup>h</sup> | <sup>h</sup> | <sup>h</sup> | 10, <sup>h</sup> | <sup>h</sup> | <sup>h</sup> | <sup>h</sup> | <sup>h</sup> | 6.7, <sup>h</sup> | 6.8, <sup>h</sup> | 6.9, <sup>h</sup> | 6.9, <sup>h</sup> | 7.0<sup>h</sup> | 7.3, 7.4, 7.7, 7.6, 7.2 | |.....|

| 10, <sup>h</sup> | <sup>h</sup> | 10, <sup>h</sup> | 10, <sup>h</sup> | 10, <sup>h</sup> | S<sup>h</sup> | <sup>h</sup> | S<sup>h</sup> | <sup>h</sup> | <sup>h</sup> | <sup>h</sup> | 6.8, <sup>h</sup> | 6.7, <sup>h</sup> | 6.6, <sup>h</sup> | 6.9, <sup>h</sup> | 7.1, <sup>h</sup> | 7.0<sup>h</sup> | [6.9<sup>h</sup>] | 7.5, 7.4, 7.0, 7.7, 7.4 7.4<sup>h</sup> | [7.3] | |...738<sup>h</sup> | |

| <sup>h</sup> | S<sup>h</sup> | 7.0<sup>h</sup> | [6.9<sup>h</sup>] | 7.4<sup>h</sup> | [7.3] | |

| 10, <sup>h</sup> | <sup>h</sup> | 7.1<sup>h</sup> | [6.8] | |

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5<sup>h</sup>[[h]]

[[10 columned table]]

| 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No. DM. | Mag. DM.  
Spectrum. | No. Plate. | No. Lines. |

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

55<sup>h</sup>[[m]] | | | | | | | |

56 | | | | | | | |

57 | | | | | | | |

X 6 1.2 +58 55 . ^ | .2 | +58 55 | 6 1.2 | +58 57 | 897 | 6.0 | III | 1035, |

3, |

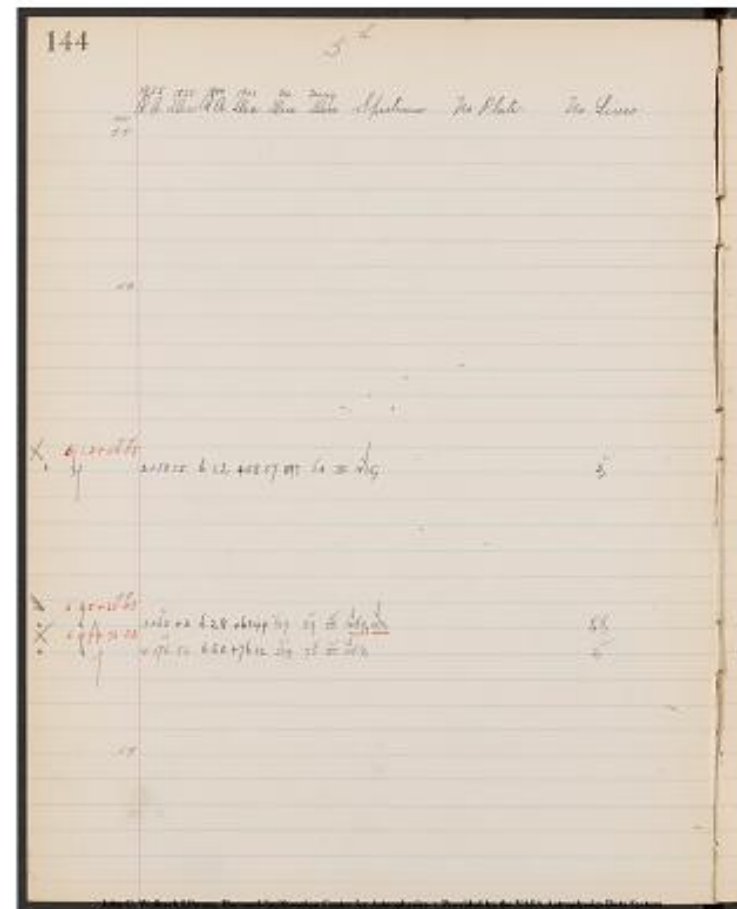
58 | | | | | | | |

6 2.8 +65 43 . ^ | .3 | +65 43 | 6 2.8 | +65 44 | 517 | 5.7 | III |

[[underlined]] 1069, 1071, [[/underlined]] | 3, 3, |

X 6 4.9 +76 52 . ^ | .4 | +76 52 | 6 5.0 | +76 52 | 234 | 7.5 | III | 1069, | 2,

59 | | | | | | | |



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5h

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No.  
Remarks |

||6.4|5.6  
10,|.5|6.6|5.8||.  
||6.5 6.4|6.3 6.3  
10,10,|.5,5|6.8 6.6|6.6|6.5||.  
||6.9|7.3  
10,|.7.1|7.5||.

K Line	F Line	Brightness	Corr. Brightness	Mean. Residuals	No. Remarks
6.4	5.6	10, .5 6.6 5.8  .			
6.5	6.4	6.3 6.3			
10,10, .5,5 6.8 6.6 6.6 6.5  .					
6.9	7.3				
10, .7.1 7.5  .					

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6<sup>h</sup>[[h]]

[[10 columned table]]

1855 R.A.	1855 Dec.	1900 R.A.	1900 Dec.	No. DM.	Mag.	DM.	Spectrum.	No. Plate.	No. Lines.
6 5.5	+66 11	6 5.5	+66 11	435	8.0	I			
6 6.0	+69 30	6 6.0	+69 30	368	7.0	I			
6 7.5	+68 21	6 7.5	+68 21	435	8.1	I			
6 6.7	+60 2	6 6.7	+60 2	938	5.8	III			
6 7.8	+69 22	6 7.8	+69 22	371	4.7	I d ?			
6 8.8	+68 43	6 8.8	+68 43	436	7.2	II ?			
6 8.7	+58 52	6 8.7	+58 52	912	7.6	I			

1855 R.A.	1855 Dec.	1900 R.A.	1900 Dec.	No. DM.	Mag.	DM.	Spectrum.	No. Plate.	No. Lines.
6 5.5	+66 11	6 5.5	+66 11	435	8.0	I			
6 6.0	+69 30	6 6.0	+69 30	368	7.0	I			
6 7.5	+68 21	6 7.5	+68 21	435	8.1	I			
6 6.7	+60 2	6 6.7	+60 2	938	5.8	III			
6 7.8	+69 22	6 7.8	+69 22	371	4.7	I d ?			
6 8.8	+68 43	6 8.8	+68 43	436	7.2	II ?			
6 8.7	+58 52	6 8.7	+58 52	912	7.6	I			

1855 R.A.	1855 Dec.	1900 R.A.	1900 Dec.	No. DM.	Mag.	DM.	Spectrum.	No. Plate.	No. Lines.
6 5.5	+66 11	6 5.5	+66 11	435	8.0	I			
6 6.0	+69 30	6 6.0	+69 30	368	7.0	I			
6 7.5	+68 21	6 7.5	+68 21	435	8.1	I			
6 6.7	+60 2	6 6.7	+60 2	938	5.8	III			
6 7.8	+69 22	6 7.8	+69 22	371	4.7	I d ?			
6 8.8	+68 43	6 8.8	+68 43	436	7.2	II ?			
6 8.7	+58 52	6 8.7	+58 52	912	7.6	I			

1855 R.A.	1855 Dec.	1900 R.A.	1900 Dec.	No. DM.	Mag.	DM.	Spectrum.	No. Plate.	No. Lines.
6 5.5	+66 11	6 5.5	+66 11	435	8.0	I			
6 6.0	+69 30	6 6.0	+69 30	368	7.0	I			
6 7.5	+68 21	6 7.5	+68 21	435	8.1	I			
6 6.7	+60 2	6 6.7	+60 2	938	5.8	III			
6 7.8	+69 22	6 7.8	+69 22	371	4.7	I d ?			
6 8.8	+68 43	6 8.8	+68 43	436	7.2	II ?			
6 8.7	+58 52	6 8.7	+58 52	912	7.6	I			

1855 R.A.	1855 Dec.	1900 R.A.	1900 Dec.	No. DM.	Mag.	DM.	Spectrum.	No. Plate.	No. Lines.
6 5.5	+66 11	6 5.5	+66 11	435	8.0	I			
6 6.0	+69 30	6 6.0	+69 30	368	7.0	I			
6 7.5	+68 21	6 7.5	+68 21	435	8.1	I			
6 6.7	+60 2	6 6.7	+60 2	938	5.8	III			
6 7.8	+69 22	6 7.8	+69 22	371	4.7	I d ?			
6 8.8	+68 43	6 8.8	+68 43	436	7.2	II ?			
6 8.7	+58 52	6 8.7	+58 52	912	7.6	I			

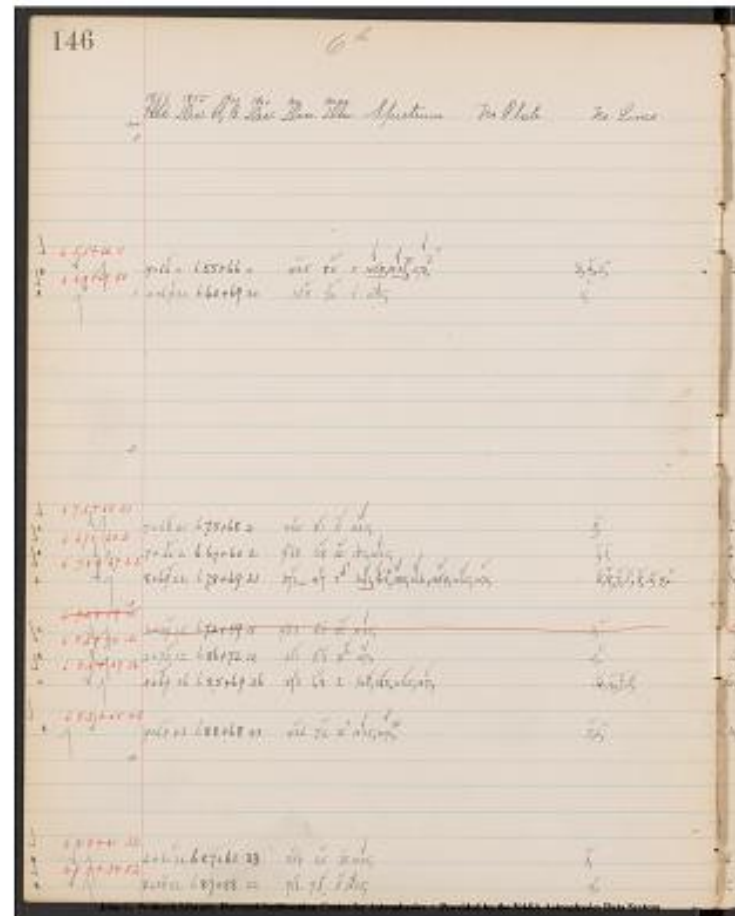
1855 R.A.	1855 Dec.	1900 R.A.	1900 Dec.	No. DM.	Mag.	DM.	Spectrum.	No. Plate.	No. Lines.
6 5.5	+66 11	6 5.5	+66 11	435	8.0	I			
6 6.0	+69 30	6 6.0	+69 30	368	7.0	I			
6 7.5	+68 21	6 7.5	+68 21	435	8.1	I			
6 6.7	+60 2	6 6.7	+60 2	938	5.8	III			
6 7.8	+69 22	6 7.8	+69 22	371	4.7	I d ?			
6 8.8	+68 43	6 8.8	+68 43	436	7.2	II ?			
6 8.7	+58 52	6 8.7	+58 52	912	7.6	I			

1855 R.A.	1855 Dec.	1900 R.A.	1900 Dec.	No. DM.	Mag.	DM.	Spectrum.	No. Plate.	No. Lines.
6 5.5	+66 11	6 5.5	+66 11	435	8.0	I			
6 6.0	+69 30	6 6.0	+69 30	368	7.0	I			
6 7.5	+68 21	6 7.5	+68 21	435	8.1	I			
6 6.7	+60 2	6 6.7	+60 2	938	5.8	III			
6 7.8	+69 22	6 7.8	+69 22	371	4.7	I d ?			
6 8.8	+68 43	6 8.8	+68 43	436	7.2	II ?			
6 8.7	+58 52	6 8.7	+58 52	912	7.6	I			

1855 R.A.	1855 Dec.	1900 R.A.	1900 Dec.	No. DM.	Mag.	DM.	Spectrum.	No. Plate.	No. Lines.
6 5.5	+66 11	6 5.5	+66 11	435	8.0	I			
6 6.0	+69 30	6 6.0	+69 30	368	7.0	I			
6 7.5	+68 21	6 7.5	+68 21	435	8.1	I			
6 6.7	+60 2	6 6.7	+60 2	938	5.8	III			
6 7.8	+69 22	6 7.8	+69 22	371	4.7	I d ?			
6 8.8	+68 43	6 8.8	+68 43	436	7.2	II ?			
6 8.7	+58 52	6 8.7	+58 52	912	7.6	I			

1855 R.A.	1855 Dec.	1900 R.A.	1900 Dec.	No. DM.	Mag.	DM.	Spectrum.	No. Plate.	No. Lines.
6 5.5	+66 11	6 5.5	+66 11	435	8.0	I			
6 6.0	+69 30	6 6.0	+69 30	368	7.0	I			
6 7.5	+68 21	6 7.5	+68 21	435	8.1	I			
6 6.7	+60 2	6 6.7	+60 2	938	5.8	III			
6 7.8	+69 22	6 7.8	+69 22	371	4.7	I d ?			
6 8.8	+68 43	6 8.8	+68 43	436	7.2	II ?			
6 8.7	+58 52	6 8.7	+58 52	912	7.6	I			

1855 R.A.	1855 Dec.	1900 R.A.	1900 Dec.	No. DM.	Mag.	DM.	Spectrum.	No. Plate.	No. Lines.
6 5.5	+66 11	6 5.5	+66 11	435	8.0	I			
6 6.0	+69 30	6 6.0	+69 30	368	7.0	I			
6 7.5	+68 21	6 7.5	+68 21	435	8.1	I			
6 6.7	+60 2	6 6.7	+60 2	938	5.8	III			
6 7.8	+69 22	6 7.8	+69 22	371	4.7	I d ?			
6 8.8	+68 43	6 8.8	+68 43	436	7.2	II ?			
6 8.7	+58 52	6 8.7	+58 52	912	7.6	I			



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6<sup>h</sup>[[h]]

[[6 columned table]]

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remarks |

|. ^[] 10, ^[] 10, ^[] . ^[] . ^[] 7.0, ^[] 6.9, ^[] 6.8 ^[] 6.8, 6.4, 6.7 || ... |

| 5, ^[] . ^[] 6.9 ^[] 6.5 || . |

|. ^[] . ^[] 7.0 ^[] 6.6 || . |

|. ^[] 10, ^[] . ^[] S ^[] 7.0 ^[] 6.7 ^[] 6.4 ^[] 5.4 ^[] 5.1 ^[] 6.0 ^[] 5.7 || . |

| 10, ^[] 1, ^[] . ^[] ? ^[] . ^[] . ^[] . ^[] . ^[] . ^[] S ^[] S ^[] S ^[] 5.9, ^[] 5.6, ^[] 5.4, ^[] 5.9, ^[] 4.8, ^[] 4.7, ^[] 4.7 ^[] 5.5, 4.4, 4.1, 4.9, 4.7, 4.3, 4.7 || ..... |

[[~~10, ^[] S ^[] 6.8 ^[] 6.5 ^[] 6.0 ^[] 5.7 || .~~]]

| 10, ^[] . ^[] 7.0 ^[] 7.2 || . |

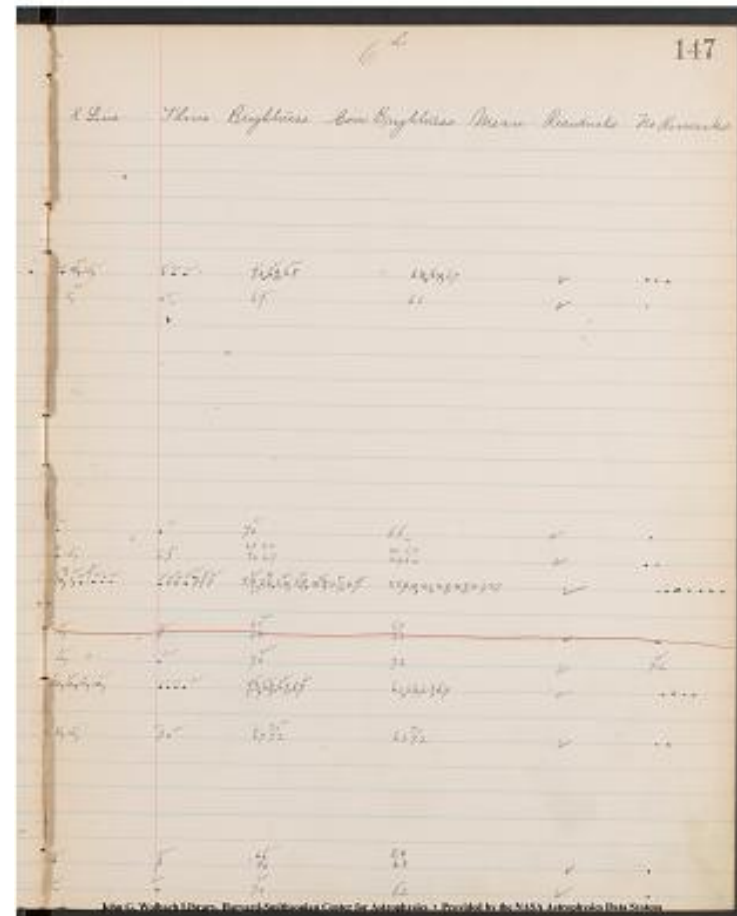
| 10, ^[] 10, ^[] 10, ^[] 10, ^[] . ^[] . ^[] . ^[] 7.3, ^[] 6.9, ^[] 6.7, ^[] 6.7 ^[] 6.1, 5.6, 6.3, 6.7 || .... |

| 10, ^[] 10, ^[] S ^[] . ^[] 6.7 ^[] 7.2 ^[] 7.0 ^[] 6.3 7.2 ^[] 7.0 || . |

| 10 ^[] S ^[] 7.0 ^[] 6.6 ^[] 6.3 ^[] 5.9 || . |

|. ^[] . ^[] 7.0 ^[] 6.2 || . |

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6<sup>h</sup>

[[10 columned table]]

| 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No. DM. | Mag. DM.  
Spectrum. | No. Plate. | No. Lines. |  
--- | --- | --- | --- | --- | --- | --- |

| 5<sup>m</sup> | | | | | | | | |

| 6 | | | | | | | | |

| 6 13.1 +77 58 . ^ | .4 | +77<sup>h</sup> 58 | 6 13.3 | +77 58 | 237<sup>h</sup> | 7.7<sup>h</sup> |  
||<sup>h</sup> | 1229<sup>h</sup> | 2<sup>h</sup> |

6 10.8 +59 3 . ^	.8	+59<sup>h</sup> 3	6 10.8	+59 3	959<sup>h</sup>	5.0<sup>h</sup>	I<sup>h</sup>
165<sup>h</sup>	185<sup>h</sup>	166<sup>h</sup>	1035<sup>h</sup>				
1071<sup>h</sup>	6<sup>h</sup>	7<sup>h</sup>	6<sup>h</sup>	10<sup>h</sup>	8<sup>h</sup>		

| 7 | | | | | | | | |

| 8 | | | | | | | | |

| 6 15. ~~9~~ 8 +79 33 . ^ | .2 | +79<sup>h</sup> 34 |  
6 15.8 | +79 33 | 201<sup>h</sup> | 7.5<sup>h</sup> | I<sup>h</sup> | 1057<sup>h</sup> | 1035<sup>h</sup> | 2<sup>h</sup> |  
2<sup>h</sup> |

| 6 12.9 +61 48 . ^ | .7 | +61<sup>h</sup> 49 | 6 12.9 | +61 48 | 878<sup>h</sup> | 6.9<sup>h</sup> |  
||<sup>h</sup> | 1035<sup>h</sup> | 1<sup>h</sup> |

| X 6 16.7 +80 38 . ^ | .6 | +80<sup>h</sup> 39 | 6 16.9 | +80 38 | 210<sup>h</sup> | 7.2<sup>h</sup> |  
|| 1057<sup>h</sup> | 103 ~~9~~ 5<sup>h</sup> | 1229<sup>h</sup> |  
2<sup>h</sup> | 3<sup>h</sup> | 3<sup>h</sup> |

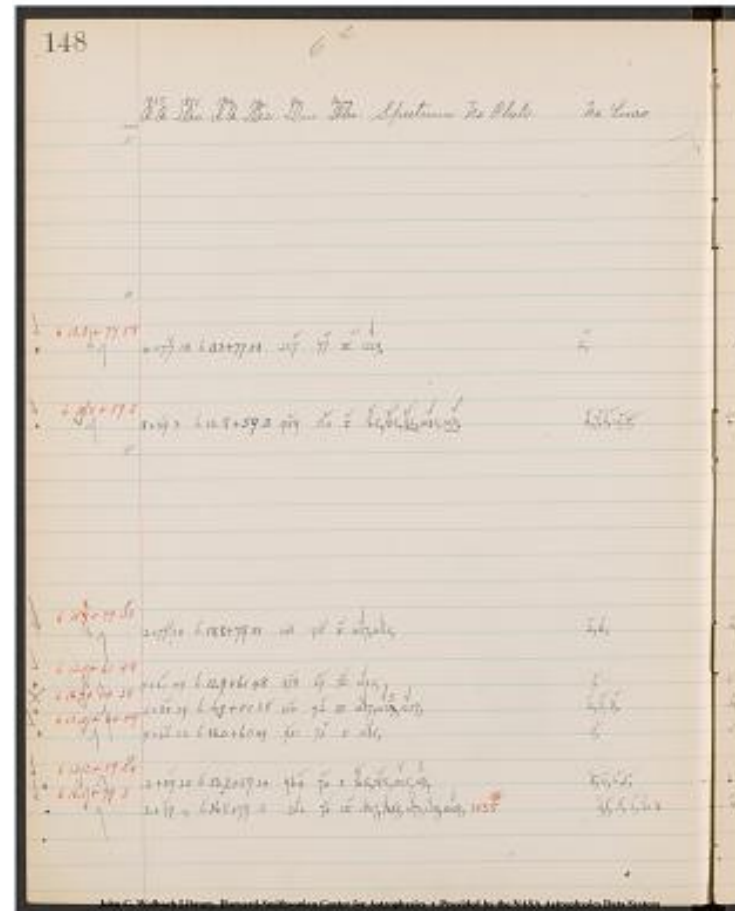
| 6 13.0 +60 49 . ^ | .9 | +60<sup>h</sup> 50 | 6 13.0 | +60 49 | 951<sup>h</sup> | 7.0<sup>h</sup> | |  
| 1035<sup>h</sup> | 3<sup>h</sup> |

| 9 | | | | | | | | |

| 6 13.2 +59 24 . ^ | .2 | +59<sup>h</sup> 25 | 6 13.2 | +59 24 | 964<sup>h</sup> | 7.0<sup>h</sup> | |  
| 165<sup>h</sup> | 185<sup>h</sup> | 1035<sup>h</sup> | 1071<sup>h</sup> | 5<sup>h</sup> | 4<sup>h</sup> | 6<sup>h</sup> | 5<sup>h</sup> |

| 6 16.5 +79 3 . ^ | .2 | +79<sup>h</sup> 4 | 6 16.5 | +79 3 | 202<sup>h</sup> | 7.0<sup>h</sup> |  
||<sup>h</sup> | 1057<sup>h</sup> | 1069<sup>h</sup> | 1071<sup>h</sup> | 1119<sup>h</sup> | 1229<sup>h</sup> | 1035<sup>h</sup> |  
3<sup>h</sup> | 1<sup>h</sup> | 3<sup>h</sup> | 2<sup>h</sup> | 2<sup>h</sup> | 3 |

| . | | | | | | | | |



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6<sup>h</sup>[[h]]

[[6 columned table]]

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No.  
Remarks |

| 10, ^[[0]]| ^[[0]]| 7.3^[[7.0^[[0]]]]| 7.5^[[7.2]]| | |

| ^[[0]]1, ?^[[0]]2, ^[[0]] ^[[0]] ^[[0]] ^[[0]] ^[[0]] ^[[0]] S^[[0]] S^[[0]] 5.6, ^[[0]] 5.5, ^[[0]] 5.9, ^[[0]] 5  
.1, ^[[0]] 4.7^[[0]]| 4.0, 3.8, 4.5, 4.3, 4.3| | .....|

| 10, ^[[0]] 10, ^[[0]] ^[[0]] ^[[0]] 6.8, ^[[0]] 7.0^[[0]]| 7.5, 7.4| | |

| ^[[0]] ^[[0]]| 7.2^[[7.0^[[0]]]]| 6.5^[[6.3]]| | |

| 10, ^[[0]] 10, ^[[0]] 10, ^[[0]] ^[[0]] S^[[0]] S^[[0]] 7.2^[[6.9]]| 7.2^[[6.9]]| 7.0^[[6.5]]| 8.0^[[  
7.7]]| 7.7^[[7.4]]| 7.5^[[7.0]]| | .....|

| ^[[0]] ^[[0]]| 7.0^[[0]]| 6.3| | |

| ^[[0]] ? ^[[0]] ^[[0]] ^[[0]] ^[[0]] S^[[0]] ^[[0]]| 7.1^[[0]]| 6.4, ^[[0]] 6.4, ^[[0]] 6.5^[[0]]| 5.5, 4.7, 5.6  
, 6.1| | .....|

| 10, ^[[0]] ^[[0]] 10^[[0]] ^[[0]] 10, ^[[0]] 10| S^[[0]] S^[[0]] S^[[0]] ^[[0]] ^[[0]] S| 6.9^[[6.7^[[0]]]]| 7.  
0^[[6.8^[[0]]]]| 7.1^[[6.8^[[0]]]]| 7.3^[[7.0^[[0]]]]| 7.3^[[6.9^[[0]]]]| 6.8^[[6.5]]| 7.5^[[7.3]]  
7.6^[[7.4]]| 7.8^[[7.5]]| 7.5^[[7.2]]| 7.6^[[7.2]]| 6.0^[[5.7]]| | .....|

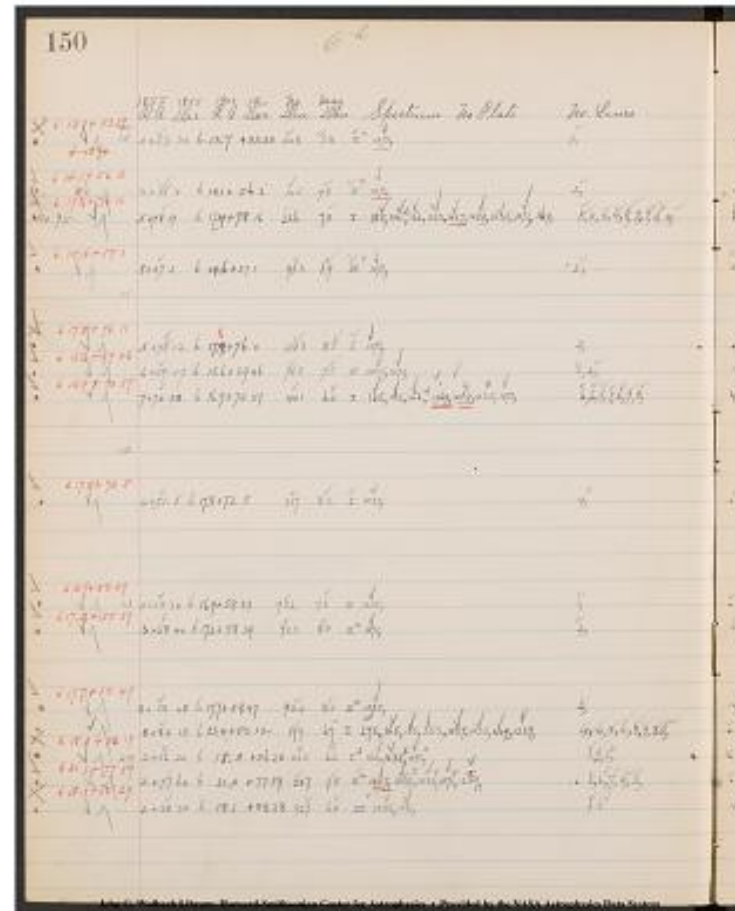
John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics  
Provided by the NASA Astrophysics Data System

Handwritten astronomical data table on aged paper, page 149. The table has 6 columns: K Line, F Line, Brightness, Corr. Brightness, Mean. Residuals, and No. Remarks. The handwriting is in cursive and includes various numerical values and symbols, some in red ink. The table is partially filled with data rows.

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$6^h[h]$   
 [[10 columned table]]  
 | | 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
 Spectrum | No Plate | No Lines |  
 -----  
 X 6 13.7 +53 29|10<sup>h</sup>[[m]] .0|+53 30|6 13.7|+53 30|1008|5.8|IIa  
 [[underlined]]1071,[[/underlined]] |3,|  
 [[/strickethrough]]6 13.7 +[[/strickethrough]] | | | | | | | |  
 6 14.1 + 56 2|10 .3|+50 3|6 14.1|+56 2|1115|7.8|II?  
 [[underlined]]1071,[[/underlined]] |2,|  
 No 95 6 17. [[/strickethrough]]5[[/strickethrough]]4 +78 16|10 .5|+78 17|6  
 17.4|+78 16|226|7.5| 185, 341<sup>h</sup>[[d]], 166, 353,  
 [[underlined]]1057[[/underlined]], 1069, 1035, 1071, 1119, | 5, 4, 4, 8, 7,  
 7, 0, 4|  
 6 14.6 +57 1|10 .8|+57 2|6 14.6|+57 1|963|6.9|III? 1071, | 2,|  
 6 17.8 +76 11|11 .5|+70 12|6 17. [[/strickethrough]]9[[/strickethrough]]8|+76  
 11| 243|8.5| 1071, | 3,|  
 6 15.6 +59 46|11 .6|+59 47|6 15.6|+59 46|968|7.5|II 1035, 1071, | 2, 2,|  
 6 16.9 +70 37|11 .7|+70 38|6 16.9|+70 37|401|6.0| 165, 185, 166<sup>h</sup>[[d]],  
 [[underlined]]1069<sup>h</sup>[[1]], 1069<sup>h</sup>[[2]], [[/underlined]] 1035, 1071, | 6, 7, 5,  
 7, 6, 9, 8|  
 6 17.8 +72 5|12 .4|+72 6|6 17.8|+72 5|317|8.2| 1035, | 4,|  
 6 16.9 +58 29|13 .0|+58 30|6 16.9|+58 29|922|7.6|II 1035, | 1,|  
 6 17.2 +58 39|13 .3|+58 40|6 17.2|+58 39|923|8.0|II<sup>h</sup>[[a]] 1071, | 2|  
 6 17.7 +58 47|13 .8|+58 48|6 17.7|+58 47|924|8.0|II<sup>h</sup>[[a]] 1035, | 2,|  
 | 13 .8|+82 13|6 23.4|+82 12|177|6.7| 275, 165, 185, 353, 1057, 1035,  
 1119, 1229, | 4, 4, 8, 6, 8, 9, 7, 6|  
 X 6 18.0 +56 19|14 .2|+56 20|6 18.0|+56 20|1125|6.2|I<sup>h</sup>[[d]] 166,  
 1035<sup>h</sup>[[I]], 1071<sup>h</sup>[[I]], | 3, 7, 5|  
 6 21.1 +77 59|14 .2|+77 60|6 21.0|+77 59|247|7.5|III<sup>h</sup>[[a]]  
 [[underlined]]1057[[/underlined]], 1069<sup>h</sup>[[I]], 1035<sup>h</sup>[[I]], 1071<sup>h</sup>[[I]],  
 1229<sup>h</sup>[[I]], | 6, 6, 7, 4, 3,|  
 X 6 18.1 +08 29|14 .2|+58 30|6 18.1|+58 28|927|6.0|III 1035, 1071, | 3,  
 3|



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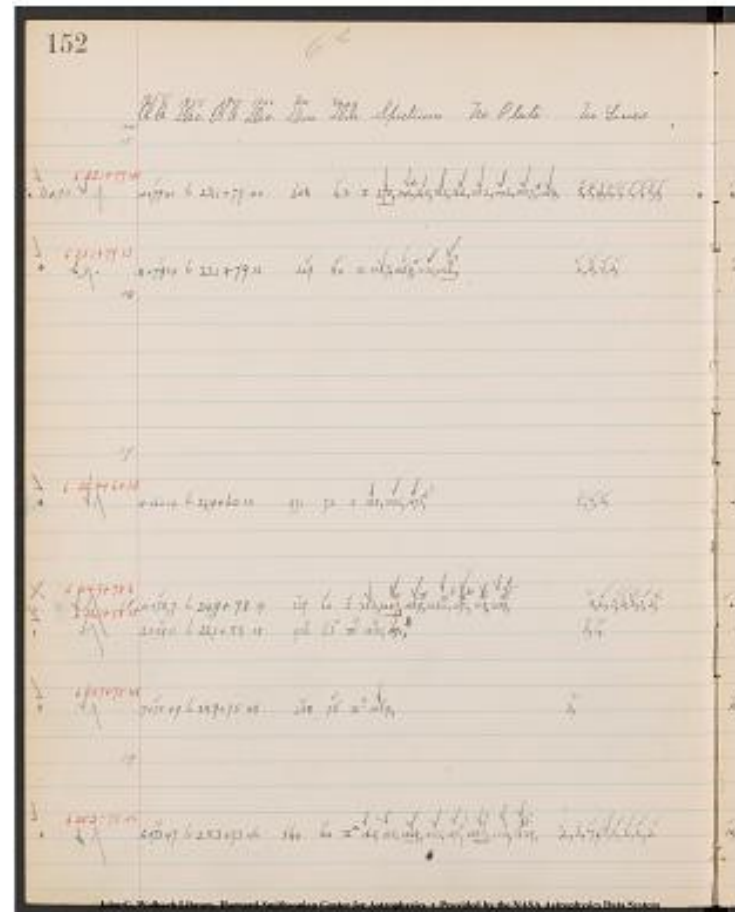


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6h

| | 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
 Spectrum | No Plate | No Lines |  
 m  
 15  
 | No.93 6 23.1+79 40 | .4+79 41 | 6 | 23.1+79 40 | 208 | 6.3 | I 275,  
 341^[[d]], 16.5, 185, 166, 353, 446, 1057^[[d]], 1009, | 5, 5, 4, 6, 5, 5, 5,  
 6, 6, |  
 | 6 23.1+79 13 | .8+79 14 6 23.1+79 13 | 209 | 8.0 | II 1057, 1009^[[I]],  
 1035, 1112^[[II?]], | 2, 4, 4, 2, |  
 16  
 17  
 | 6 21.4+60 13 | .4+60 14 6 21.4+60 13 | 971 | 7.2 | I 185, 1035,  
 1071^[[d?]], | 5, 7, 5, |  
 | 6 24.9+78 6 | 18.0+78.7 6 24.9+78 4 | 227 | 6.0 | I 353, 1057^[[III]],  
 1009^[[III]], 1035^[[IIIb]], 1071^[[IIIb]], 1119^[[III]], 1229^[[IIIb]], | 3, 2, 3,  
 3, 3, 1, 2, |  
 | 6 22.1+58 15 | .2+58 10 6 22.1+58 15 | 932 | 6.3 | III 1035, 1071^[[b]], |  
 3,3, |  
 | 6 24.9+75 48 | .7+75 49 6 24.9+75 48 | 258 | 7.6 | II^[[?]] 1069, | 2, |  
 19  
 | 6 25.3+73 46 | .6+73 47 6 25.3+73 46 | 340 | 6.0 | II^[[a]] 165, 185,  
 1069, 1035, 1071^[[I?]], 1097^[[II?]], 1119^[[I]], 1229^[[II]], | 2, 2, 7.3, 8,  
 2, 6, 2 |



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6<sup>h</sup>[[h]]

[[6 columned table]]

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remarks |

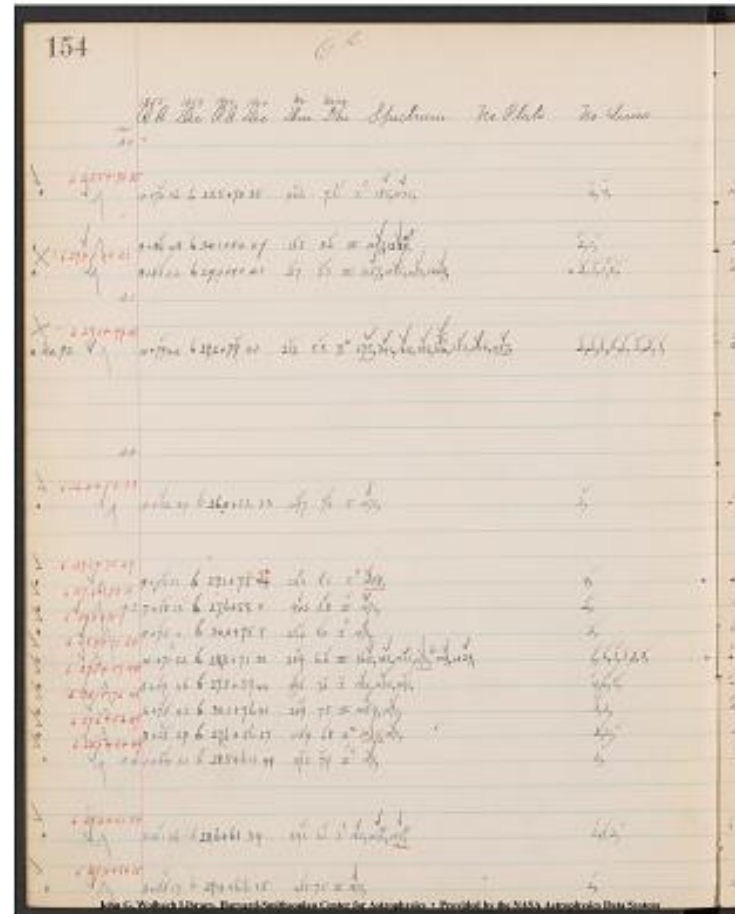
-----|-----|-----|-----|-----|-----|  
 |..^[[9[[?]]]]...10,...|.....SS 7.0, 6.3, 6.9, 6.6, 6.8, 5.8, 6.0, 6.0, 6.0 7.0,  
 6.7, 6.5, 6.1, 6.6, 5.7, 6.9, 6.7, 6.7 | v | ..... |  
 | 10, 10, 10, 10, | .... | 6.8, 6.9, 7.0, 7.0 | 7.4, 7.5, 7.3, 7.0 | v | .... |  
 | ... | .S. | 6.8, 6.5, 6.6[[?]] | 5.2, 5.8, 6.3[[?]] | [[symbol-checkmark]] | ... |  
 | . 10, 10, 10, 10, .10, | ..SSS.. | 6.9 6.9 6.8 6.7 6.7 7.2 7.0^[[6.5 6.4 6.3  
 6.3 6.8 6.5]] | 6.6 7.4 7.3 6.9 7.3 7.3 7.2^[[7.0 6.9 6.5 6.9 6.9 6.7]] |  
 [[symbol-checkmark]] | ...700, 720, .750 |  
 | 10, 10, | SS | 6.6 6.9^[[6.5 6.8]] | 6.8 6.5^[[6.7 6.4]] | [[symbol-  
 checkmark]] | .728 |  
 | 10, | . | 7.0 | 7.3 | [[symbol-checkmark]] | . |  
 | 10, 10, 10, 10, 10, 10, 10, | ..SSS.S. | 6.9, 6.6, 6.5, 6.5, 6.2, 6.8,  
 6.6, 6.5 6.1, 5.6, 6.7, 6.4, 6.5, ? 7.4, 6.4 | 78, 86, 682, 713, .... |

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6h

| | 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |  
m  
20  
| 6 25.5+70 35 | .4+70 36 6 25.5+70 35 | 406 | 7.2 | I<sup>^</sup>[[?]] | 185, 1035, | -  
-- | 4, 4 |  
| 9+84 48 6 34.1+84 47 | 135 | 8.2 | III | 1057, 1229<sup>^</sup>[[II?]], | --- | 2, 1, |  
| 6 29.4+80 21 | .9+80 22 | 6 29.0+80 21 | 217 | 7.3 | III | 1057, 1035,  
1071, 1229, | --- | . 2, 3, 1, 2, |  
21  
| No. 92 | 6 29.1+79 41 | .4+79 42 6 29.2+79 41 | 212 | 5.5 | II<sup>^</sup>[[a]] | 2.75,  
341, 165, 185, 166<sup>^</sup>[[I]], 353, 446, 1057, | --- | 2, 2, 2, 2, 6, 2, 2, 3, |  
22  
| 6 26.0+52 33 | .4+52 34 6 26.0+52 33 | 1097 | 7.0 | I | 1071, | --- | 3, |  
| 6 29.1+75 49 | .9+75 51 6 29.1+75  
[[strikethrough]]49[[/strikethrough]]50 | 263 | 8.5 | I<sup>^</sup>[[?]] | 1009, | --- | 4, |  
| 6 27.6+58 11 | 23.7+58 13 6 27.6+58 11 | 943 | 6.8 | II | 1071, | --- | 2, |  
| 6 30.0+75 9 | .9+75 11 6 30.0+75 9 | 20.4 | 8.0 | I<sup>^</sup>[[?]] | 1071, | --- | 2, |  
| 6 28.8+71 50 | .4+71 52 6 28.8+71 50 | 359 | 6.0 | III | 165, 185, 1035,  
1071<sup>^</sup>[[b]], 1119, 1229, | --- | 1, 2, 3, 3, 3, 3, |  
| 6 27.5+59 44 | .5+59 46 6 27.5+59 44 | 996 | 7.0 | I | 185, 1035, 1071, |  
--- | 4, 6, 5, |  
| 6 30.1+76 41 | .6+70 43 6 30.1+76 41 | 249 | 7.5 | III | 1009, 1071, | --- |  
3, 2, |  
| 6 27.6+56 27 | .8+50 29 6 27.6+56 27 | 1134 | 68 | II<sup>^</sup>[[a]] | 1071, | --- |  
2, 2, |  
| 6 28.6[[?]]+64 49 | 24.1+64 51 6 28.5+64 49 | 593 | 7.9 | II<sup>^</sup>[[?]] | 1071,  
--- | 2, |  
| 6 28.6+61 34 | .5+61 36 6 28.6+61 34 | 893 | 6.1 | I<sup>^</sup>[[?]] | 185,  
1035<sup>^</sup>[[III]], 1071<sup>^</sup>[[III]], | --- | 2, 3, 2, |  
| 6 29.4+66 15 | .8+00[[?]] 17 6 29.4+66 15 | 455 | 7.5 | II | 1071, | --- | 2,



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6<sup>h</sup>

[[6 columned table]]

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remarks |

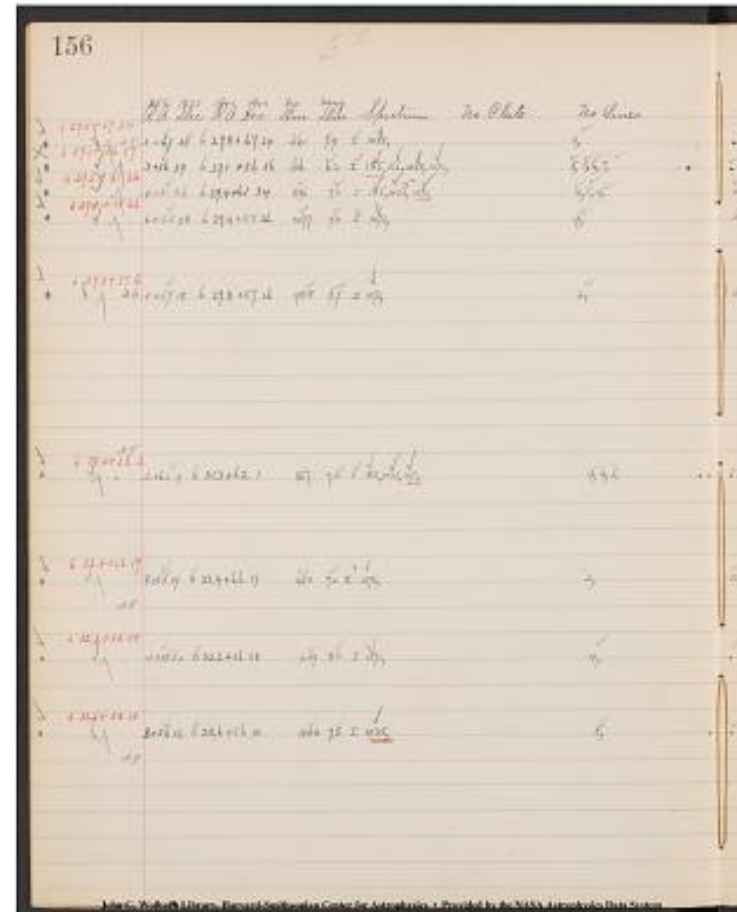
---|---|---|---|---|  
 | 10, 10, | .. | 7.4, 6.9 | 6.2, 6.6 | --- | [[symbol-checkmark]] | .. |  
 | 10, . | .. | 6.8<sup>h</sup>[[6.5]] 7.0 | 8.2<sup>h</sup>[[7.9]] 8.1 | --- | [[symbol-checkmark]] | .. |  
 | 10, 10, 10, | .S. | 7.1 7.0 7.1 7.3 ^[[6.9 6.7 6.9 7.0]] | 7.8 7.3 7.9 7.7  
 ^[[7.6 7.1 7.7 7.4]] | --- | [[symbol-checkmark]] | .... |  
 | 10, 10<sup>h</sup>[[9[[?]]]], 10, 10, .10, 10, 10<sup>h</sup>[[?]] | .....S | 6.6, 5.6, 6.5, 6.2, 5.8,  
 5.2, 5.6, 5.6, | 6.6, 5.7, 6.1, 5.7, 5.6, 5.1, 7.5, 6.3 | --- | [[symbol-  
 checkmark]] | 66, 71, 74, 83 . 89, 103, 671 |  
.	.	7.0	6.4[[?]]	---	[[symbol-checkmark]]	.
.	.	7.0	7.3	---	[[symbol-checkmark]]	.
10, .	6.9	6.5	---	[[symbol-checkmark]]	.	
10, .	7.0	7.4	---	[[symbol-checkmark]]	.	
. 10, 10, 10, 10, 10,	.SSSS	7.4 7.1 6.7 0.9 6.9 7.0 ^[[7.1 6.9 6.5 6.7				
6.5 6.6]]	6.4 6.0 6.5 7.1 6.6 6.8<sup>h</sup>[[6.1 5.8 6.3 6.9 6.2 6.4]]	---				
[[symbol-checkmark]]	...715..					
.5,	.S.	6.9, 6.7, 6.8	5.2, 5.9, 7.4	---	[[symbol-checkmark]]	...
10, 10,	Sv[[?]]	7.0 7.0<sup>h</sup>[[6.9 6.9]]	7.4 7.5<sup>h</sup>[[7.3 7.4]]	---	[[symbol-	
checkmark]]	...					
10, 10,	.S<sup>h</sup>[[?]]	6.8, 6.6	5.9, 6.1	---	[[symbol-checkmark]]	698,
722,						
10, .	7.2	7.0	---	[[symbol-checkmark]]	.	
? 10, 10,	.S.	6.9 6.7<sup>h</sup>[[6.6]] 6.8	5.3 6.0<sup>h</sup>[[5.9]] 6.5	---	[[symbol-	
checkmark]]	...					
10, .	7.2	7.1	---	[[symbol-checkmark]]	.	

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6h

| 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No. Hm. | Mag. Hm. |  
 Spectrum | No. Plate. | No. Lines. |  
 6 29.8 +67 24 | 25 .1+67 20 | 6 29.8+67 24 | 441 | 7.9 | I | 1035 | --- | 3,  
 6 29.1+56 57 | .3 +56 59 | 6 29.1+56 56 | 1136 | 6.2 | I | 185, 166,  
 1035, 1071, | --- | 5, 5; 6, 7, |  
 6 29.5+61 34 | .4+61 36 | 6 29.4+61 34 | 896 | 7.3 | I | 185, 1035^[[IIa]],  
 1071, | --- | 4, 5, 4, |  
 6 29.4+55 26 | .6+55 28 | 6 29.4+55 26 | 1097 | 7.0 | I | 1071, | --- | 4, |  
 6 29.8+57 16 | 26 .0+57 18 | 6 29.8+57 16 | 988 | 6.7[[?]] | II | 1071, | ---  
 2, |  
 27  
 6 31.4+62 2 | .2+62 4 | 6 31.3+62 1 | 867 | 7.2 | I | 185, 1035, 1071, | ---  
 4, 4, 5, |  
 6 32.4+66 17 | .8+66[[?]] 19 | 6 32.4+66 17 | 400 | 7.0 | II^[[?]] | 1071, |  
 --- | 2, |  
 28  
 6 32.2+56 58 | .4+5660 | 6 32.2+56 58 | 1139 | 8.0 | I | 1071, | ---- | 4, |  
 6 32.6+56 10 | .8+56 12 | 6 32.6+56 10 | 1140 | 7.5 | I | 1035, | --- | 5, |  
 29



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6<sup>h</sup>

[[6 columned table]]

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No.  
Remarks |

10	10	7.0	6.6	---	[[symbol-checkmark]]	.
10	10	7.0	6.8	6.5	5.8	5.3, 5.4, 5.7, 5.4   ---   [[symbol-checkmark]]
10	10	7.0	6.7	7.0	5.4	6.0, 6.7   ---   [[symbol-checkmark]]
10	10	7.0	6.5	---	[[symbol-checkmark]]	.
10	10	7.0	6.6	---	[[symbol-checkmark]]	.
10	10	6.8	6.6	6.5	5.2	5.9, 6.2   ---   [[symbol-checkmark]]   ...
10	10	6.9	6.8	---	[[symbol-checkmark]]	.
10	10	6.9	6.5	---	[[symbol-checkmark]]	.
10	10	6.8	5.9	---	[[symbol-checkmark]]	.

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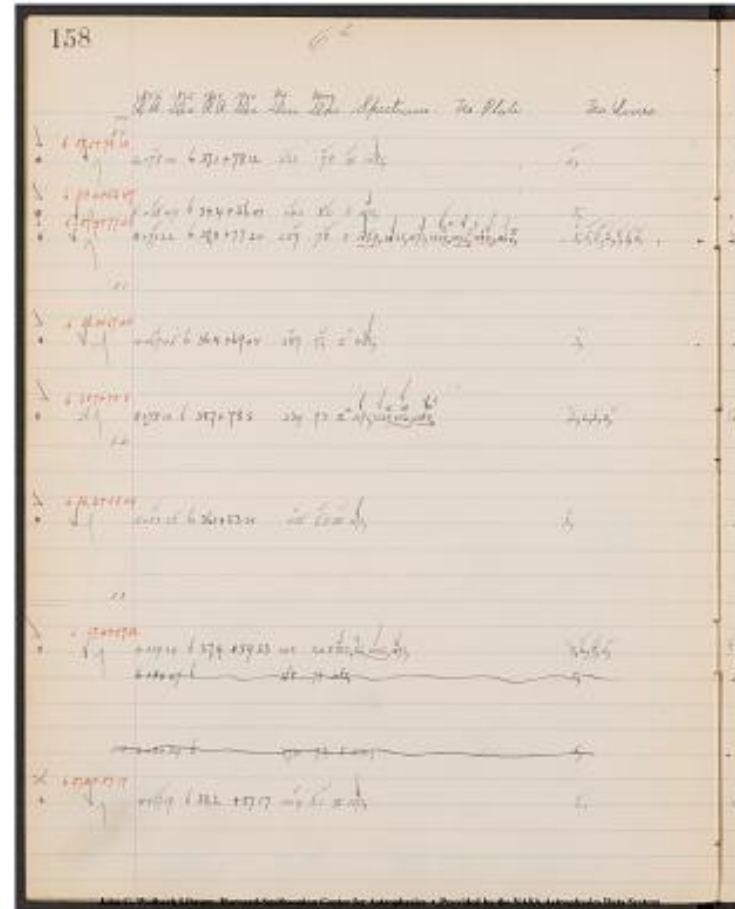
K Line	F Line	Brightness	Corr. Brightness	Mean Residuals	No. Remarks
10	10	7.0	6.6	---	[[symbol-checkmark]]   .
10	10	7.0	6.8	6.5	5.8   5.3, 5.4, 5.7, 5.4   ---   [[symbol-checkmark]]
10	10	7.0	6.7	7.0	5.4   6.0, 6.7   ---   [[symbol-checkmark]]
10	10	7.0	6.5	---	[[symbol-checkmark]]   .
10	10	7.0	6.6	---	[[symbol-checkmark]]   .
10	10	6.8	6.6	6.5	5.2   5.9, 6.2   ---   [[symbol-checkmark]]   ...
10	10	6.9	6.8	---	[[symbol-checkmark]]   .
10	10	6.9	6.5	---	[[symbol-checkmark]]   .
10	10	6.8	5.9	---	[[symbol-checkmark]]   .

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6h

| | 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |  
m  
30  
| 6 37.1+78 12 | .2+78 14 | 6 37.1+78 12 | 233 | 7.8 | II | 1035, | --- | 2, |  
| 6 34.4+56 47 | 0.[?]+50 49 | 6 34.4+56 47 | 1143 | 8.0 | I | 1071, | --- |  
5, |  
| 6 37.4+77 20 | .8+77 22 | 6 37.4+77 20 | 259 | 7.8 | I | 1069, 1035,  
1071, 1229<sup>^</sup>[[IIa]], 1072<sup>^</sup>[[I?]], 11~~[[~~III~~]]~~2~~[[~~III~~]]~~12,  
1064<sup>^</sup>[[III]], 6, 5, 6, 2, 3, 3, 2, |  
31  
| 6 36.4+69 44 | .4+69 46 | 6 | 36.4+69 44 | 389 | 7.7 | I<sup>^</sup>[[?]] | 1035, | --- |  
3, |  
| 6 38.7+78 8 | .8+78 10 | 6 | 38.7+78 8 | 234 | 7.3 | II<sup>^</sup>[[a]] | 1071,  
1229<sup>^</sup>[[III]], 1112<sup>^</sup>[[III]], 1064<sup>^</sup>[[I?]], | --- | 2, 2, 2, 2, |  
32  
| 6 36.2+53 24 | .5+53 20 | 6 | 36.1+53 24 | 1050 | 6.5 | III | 1071, | 2, |  
33  
| 6 37.4+59 32 | .4+59 34 | 6 | 37.4+59 33 | 1015 | 5.0 | I | 185, 166,  
1035, 1071, | 5, 6, 8, 11, |  
[[~~III~~]] | .6+84 47 | 6 | --- | 108 | 7.8 | 1065 | --- | 5, |  
34 .0+80 34 | 6 | --- | 272 | 7.3 | I | 1112, | --- | 5, | [[~~III~~]]  
| 6 37.2+57 17 | .4+57 19 | 6 | 38.2 +57 17 | 1004 | 6.1 | III | 1071, | --- |  
2, |



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6<sup>h</sup>

[[6 columned table]]

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remarks |

| 10, ^[ ] | ^[ ] | 6.8 ^[ ] | 7.0 | | |

| . | | 7.0 | 6.6 | | |

| . ^[ ] | . ^[ ] | . ^[ ] | 10, ^[ ] | . ^[ ] | . ^[ ] | 10, ^[ ] | S ^[ ] | . ^[ ] | S ^[ ] | . ^[ ] | . ^[ ] | . ^[ ] | 6.8, ^[ ] | 6.7, ^[ ] | 6.6, ^[ ] | 7.0, ^[ ] | 6.9, ^[ ] | 6.8, ^[ ] | 6.8 ^[ ] | 7.2, 6.9, 7.2, 7.2, 7.3, 7.3, 7.1 | | ... 749 ^[ ] | ... |

| . ^[ ] | . ^[ ] | 7.0 ^[ ] | 5.7 | | |

| 10, ^[ ] | 10, ^[ ] | 10, ^[ ] | 10, ^[ ] | . ^[ ] | . ^[ ] | . ^[ ] | 7.0, ^[ ] | 7.1, ^[ ] | 7.3 ^[ ] | 7.0 ^[ ] | 7.1 ^[ ] | 7.0 ^[ ] | 7.6, 7.3, 7.8 ^[ ] | 7.4 ^[ ] | 7.3 | | 725, ^[ ] | ... |

| 10, ^[ ] | . | 7.2 ^[ ] | 7.0 ^[ ] | 6.7 ^[ ] | 6.5 | | |

| ? ^[ ] | . ^[ ] | 5, ^[ ] | 2, ^[ ] | . ^[ ] | . ^[ ] | S ^[ ] | S ^[ ] | 5.8, ^[ ] | 5.8, ^[ ] | 5.8, ^[ ] | 5.2 ^[ ] | 4.1, 4.4, 5.0, 4.8 | | ... |

| | | ~~6.0~~ | 7.5 | | | | | ~~6.4~~ | 7.2 | | | | | ~~6.3~~ | 5.9 | | |

| . | | ~~6.4~~ | 7.2 | | | | | ~~6.3~~ | 5.9 | | |

| 10, ^[ ] | . ^[ ] | 6.5 ^[ ] | 6.3 ^[ ] | 6.1 ^[ ] | 5.9 | | |

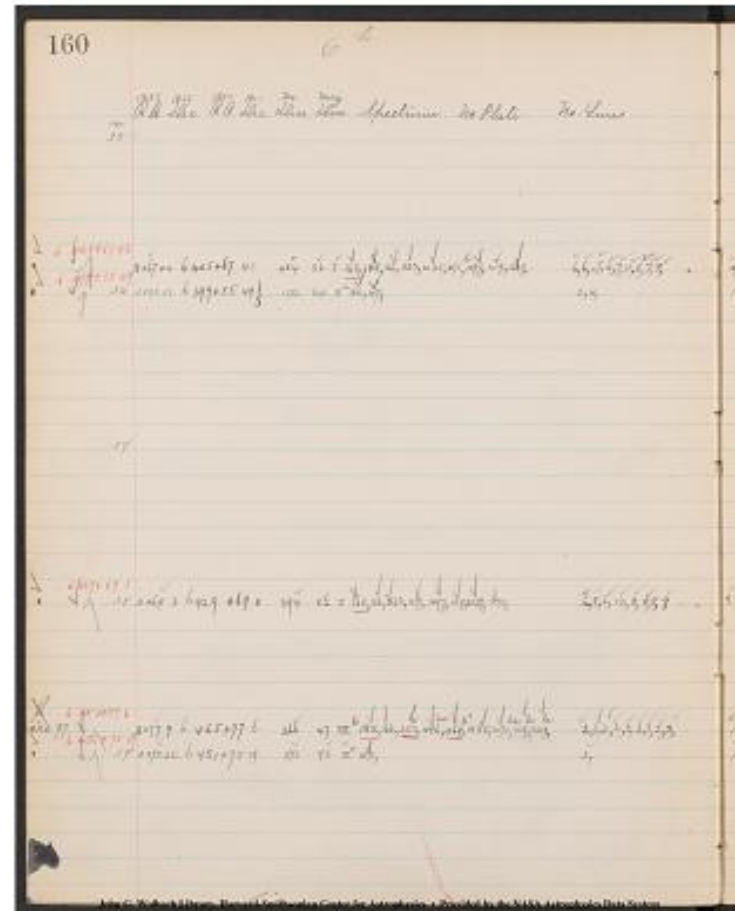
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6<sup>h</sup>[[h]]

[[10 columned table]]

| --- | R.A. 1855 | Dec. 1855 | R.A. 1900 | Dec. 1900 | No. DM. | Mag.  
 DM. | Spectrum | No. Plate | No. Lines |  
 | --- | --- | --- | --- | --- | --- | --- |  
 | 35<sup>h</sup>[[m]] | | | | | | | | | |  
 | • 6 40.5 +67 42 | .8 +67 44<sup>h</sup>[[ ] ] | 6 | 40.5 +67 | 41 | 454<sup>h</sup>[[ ] ] | 5.2<sup>h</sup>[[ ] ] |  
 | 1<sup>h</sup>[[ ] ] | [[underline]]165[[/underline]]<sup>h</sup>[[ ] ] | 185<sup>h</sup>[[ ] ] | 166<sup>h</sup>[[ ] ] | 353<sup>h</sup>[[ ] ] |  
 | 1035<sup>h</sup>[[ ] ] | 1071<sup>h</sup>[[b]] | 1097<sup>h</sup>[[ ] ] | 1119<sup>h</sup>[[ ] ] | 1229<sup>h</sup>[[ ] ] | 6<sup>h</sup>[[ ] ] | 6<sup>h</sup>[[ ] ] | 7<sup>h</sup>[[ ] ] |  
 | 6<sup>h</sup>[[ ] ] | 7<sup>h</sup>[[ ] ] | 11<sup>h</sup>[[ ] ] | 6<sup>h</sup>[[ ] ] | 7<sup>h</sup>[[ ] ] | 9<sup>h</sup>[[ ] ] • |  
 | • 36<sup>h</sup> ^[[ • 6 39.9 +55 49]] | .1 +55 51 | 6 | 39.9 +55 | 49 | 1122 | 6.0 | IIa  
166<sup>h</sup>[[ ] ]	1071<sup>h</sup>[[ ] ]	2, 4						
37	---	---	---	---	---	---	---	
• 38<sup>h</sup> ^[[6 42.9 +69 1]]	0 + 69 3<sup>h</sup>[[ ] ]	6	42.9 +69	0	394<sup>h</sup>[[ ] ]	5.2<sup>h</sup>[[ ] ]		
	[[underline]]165[[/underline]]<sup>h</sup>[[ ] ]	166<sup>h</sup>[[ ] ]	353<sup>h</sup>[[ ] ]	1071<sup>h</sup>[[ ] ]	1097<sup>h</sup>[[ ] ]			
1119<sup>h</sup>[[ ] ]	1229<sup>h</sup>[[ ] ]	1535<sup>h</sup>[[ ] ]	.6<sup>h</sup>[[ ] ]	8<sup>h</sup>[[ ] ]	6<sup>h</sup>[[ ] ]	12<sup>h</sup>[[ ] ]	8<sup>h</sup>[[ ] ]	8<sup>h</sup>[[ ] ]
8<sup>h</sup>[[ ] ]	9<sup>h</sup>[[ ] ] • •							
• ~~[[/del]] No. 97<sup>h</sup> ^[[6 45.3+ 77 6]]	8 +77 9<sup>h</sup>[[ ] ]							
6	45.5 +77	6	266<sup>h</sup>[[ ] ]	4.7	IIb	[[underline]]185[[/underline]]<sup>h</sup>[[ ] ]		
166<sup>h</sup>[[ ] ]	[[underline]]353[[/underline]]<sup>h</sup>[[ ] ]	446<sup>h</sup>[[bc]]						
[[underline]]1069[[/underline]]<sup>h</sup>[[b?]]	1035<sup>h</sup>[[ ] ]	1071<sup>h</sup>[[bc]]	1119<sup>h</sup>[[bc]]					
1229<sup>h</sup>[[bc]]	2<sup>h</sup>[[ ] ]	6<sup>h</sup>[[ ] ]	2<sup>h</sup>[[ ] ]	2<sup>h</sup>[[ ] ]	3<sup>h</sup>[[ ] ]	3<sup>h</sup>[[ ] ]	2<sup>h</sup>[[ ] ]	3<sup>h</sup>[[ ] ]
39<sup>h</sup> ^[[ • 6 45.1 +75 19]]	0 +75 22<sup>h</sup>[[ ] ]	6	45.1 +75	19	273<sup>h</sup>[[ ] ]			
7.5<sup>h</sup>[[ ] ]	II<sup>h</sup>[[a]]	1071<sup>h</sup>[[ ] ]	2<sup>h</sup>[[ ] ]	~~				



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162

6<sup>h</sup>[[h]]

[[10 columned table]]

| RA 1855|Dec 1855|RA 1900|Dec 1900|No DM|Mag.  
DM|Spectrum|No Plate|No Lines|

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

40

|. 6 44.3 +59 34|.3|+59 37|6 44.3|+59 34|1028|6.0||166, 1071<sup>h</sup>[[IIa]],

[[underline]]1229[[/underline]].|5, 4, 4,|

41

|. 6 46.3 +70 13|.2|+70 16|6 46.3|+70 13|427|8.0||1035,|3,|

| |[[strikethrough]].6|+84 28.6| | |169|6.0|185,6,[[strikethrough]]|

42

43

44

|. 6 50.8 +75 33|.7|+75 36|6 50.8|+75 33|280|7.0|III|[[underline]]1112,  
1064<sup>h</sup>[[III?]]|[[underline]]2,2,|

|. 6 50.8 +75 23|.7|+75 26|6 50.8|+75 23|281|6.8|IIa|1071, 1119<sup>h</sup>[[II]],

1229<sup>h</sup>[[III?]], [[underline]]1072<sup>h</sup>[[II]], 1112<sup>h</sup>[[II]],

1064<sup>h</sup>[[III?]]|[[underline]].|3, 2, 2, 2, 3, 3,|

|. 8|+80 45|6 53.1|+80 42|227|8.6||1035, 1071, 1229<sup>h</sup>[[II]],

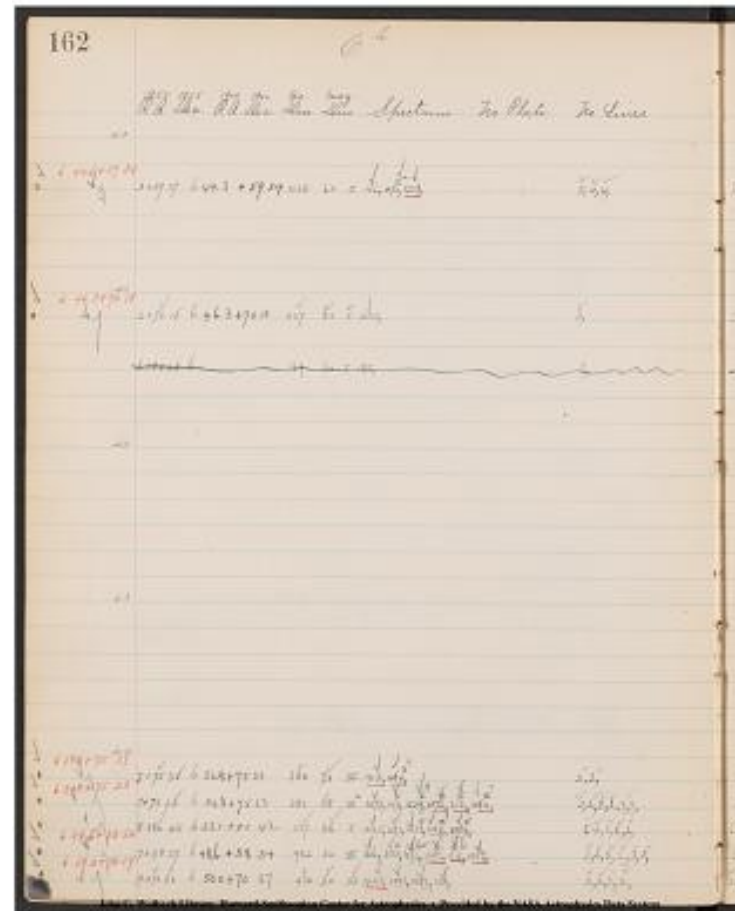
[[underline]]1112<sup>h</sup>[[III?]], 1064<sup>h</sup>[[III?]]|[[underline]].|5, 4, 1, 2, 2,|

|. 6 48.6 +58 34|.7|+58 37|6 48.6|+58 34|982|5.0|III|166, 353<sup>h</sup>[[III]],

1071<sup>h</sup>[[bc]], [[underline]]1097<sup>h</sup>[[III?]], 1119<sup>h</sup>[[IIb]], 1229[[/underline]].|2, 2,  
3, 2, 3, 3,|

|. 6 50.0 +70 57|.9|+70 60|6 50.0|+70

57|430|6.0|III|[[underline]]1035[[/underline]], 1071, 1097, 1119,|3, 2, 1,  
2,|



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164

6h

[[10 columned table]]

| RA 1855 | Dec 1855 | RA 1900 | Dec 1900 | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |

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

m

45

| 6 50.1 +67 27 | .4 | +67 30 | 6 50.1 | +67 27 | 466 | 7.0 | III | 1071, | 2, |  
| 6 50.8 +69 47 | .8 | +69 50 | 6 50.8 | +69 47 | 398 | 6.8 | III | 1035,  
1071, | 3, 2, |

46

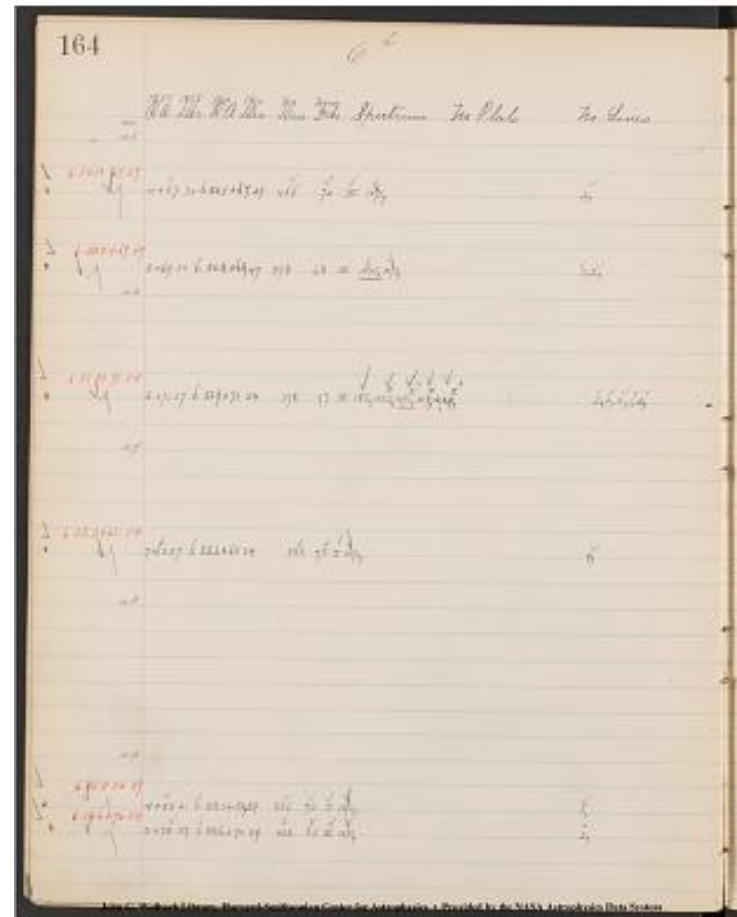
| 6 51.9 +71 54 | .6 | +71 57 | 6 51.9 | +71 54 | 378 | 7.7 | III | 185,  
1035^[[II]], 1071^[[II?]], 1119^[[II]], 1229^[[II?]], | 2, 2, 2, 1, 2, |

47

| 6 52.2 +65 54 | .7 | +65 57 | 6 52.2 | +65 54 | 553 | 7.5 | I | 1071, | 4, |

48

| 6 53.1 +54 59 | .4 | +55 2 | 6 53.1 | +54 59 | 1155 | 7.0 | I | 1071, | 5, |  
| 6 54.6 +70 54 | .5 | +70 57 | 6 54.6 | +70 54 | 432 | 6.5 | III | 1071, | 2, |



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165

6<sup>h</sup>

[[6 columned table]]

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remarks |

| 10, ^[[ ]| . ^[[ ]| 7.0 ^[[6.9 ^[[ ]]]| 6.9 ^[[6.8]]| . |

| 10, ^[[ ]| 10, ^[[ ]| S ^[[ ]| . ^[[ ]| 7.1 ^[[6.9 ^[[ ]]]| 7.1 ^[[6.9 ^[[ ]]]| 6.8 ^[[6.6]]| 7.2 ^[[7.0]]| ... |

| . ^[[ ]| 10, ^[[ ]| 10, ^[[ ]| . ^[[ ]| 10, ^[[ ]| . ^[[ ]| . ^[[ ]| . ^[[ ]| . ^[[ ]| 7.3 ^[[7.1 ^[[ ]]]| . 6.9, ^[[7.0 ^[[ ]]]| 7.0, ^[[ ]| 7.0 ^[[ ]| 6.2 ^[[6.6]]| 6.7, 7.2, 6.7, 6.8| ..... |

| . ^[[ ]| . ^[[ ]| 6.9 ^[[ ]| 6.8| . |

| . ^[[ ]| S ^[[ ]| 6.5 ^[[ ]| 6.0| . |

| 10, ^[[ ]| . ^[[ ]| 7.0 ^[[6.8]]| 6.9| . |

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Provided by the NASA Astrophysics Data System

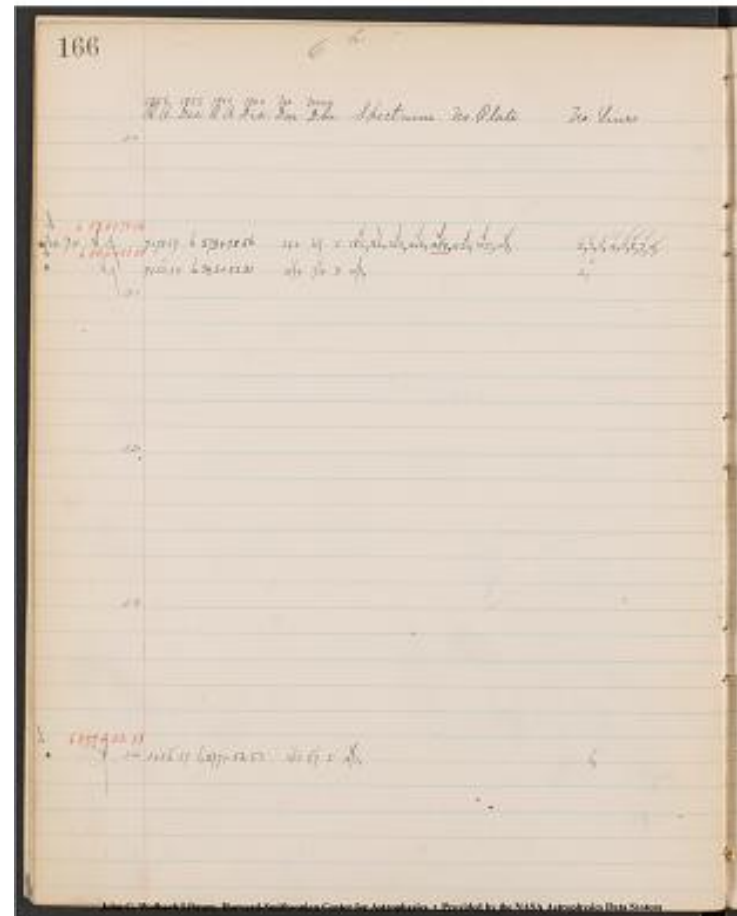
K Line	F Line	Brightness	Corr. Brightness	Mean. Residuals	No. Remarks
10	10	7.0	6.9	6.8	
10	10	7.1	6.9	6.8	
10	10	7.2	6.9	6.8	
10	10	7.3	6.9	6.8	
10	10	7.4	6.9	6.8	
10	10	7.5	6.9	6.8	
10	10	7.6	6.9	6.8	
10	10	7.7	6.9	6.8	
10	10	7.8	6.9	6.8	
10	10	7.9	6.9	6.8	
10	10	8.0	6.9	6.8	

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166  
6<sup>h</sup>

[[10 columned table]]

	1855 R.A.	1855 Dec.	1900 R.A.	1900 Dec.	No. DM.	Mag. DM.	Spectrum.	No. Plate.	No. Lines.
50	6 57.8	+78 56	No. 94	.7	+78 59	6 57.8	+78 56	240	6.7
	185	166	353	446	<u>1069</u>	<u>1035</u>	1071	1119	
	5	3	5	4	5	8	7	4	
	6 54.5	53 31	.9	+53 34	6 54.5	+53 31	1094	7.4	II
51									
52									
53	6 57.7	+52 53	.1	+52 57	6 57.7	+52 53	1165	6.7	I
	6								



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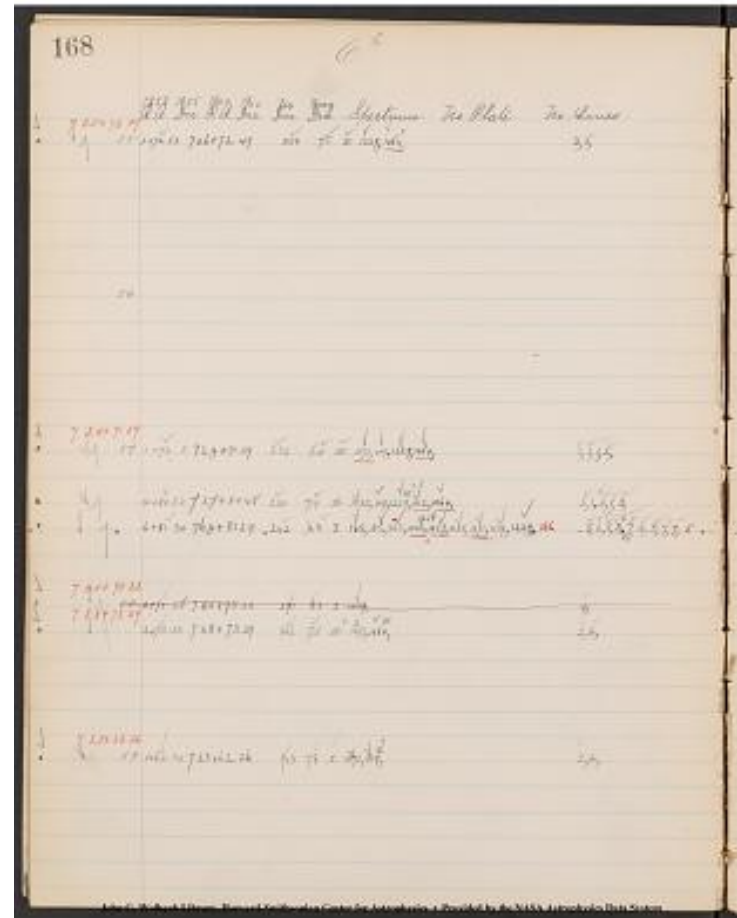
168

6<sup>h</sup>[[h]]

[[10 columned table]]

| 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No. DM. | Mag DM. |  
Spectrum. | No. Plate. | No. Lines. |

--- | --- | --- | --- | --- | --- | --- | --- | --- | --- |  
 7 0.5 +72 49 . ^ 55 | .1 | +72 53 | 7 0.6 | +72 49 | 350 | 7.5 | II | 1229,  
 [[underlined]] 1064<sup>h</sup>[[I]], [[/underlined]] 2, 3, |  
 56 | | | | | | | | | |  
 7 2.4 +71 59 . ^ 57 | .1 | +72 3 | 7 2.4 | +71 59 | 352 | 6.4 | III |  
 [[underlined]] 1071, [[/underlined]] 1119, 1229, [[underlined]] 1004,  
 [[/underlined]] 1, 1, 1, 2, |  
 . ^ | .4 | +80 52 | 7 5.7 | +80 48 | 230 | 7.4 | III | 1035, 1119, 1229<sup>h</sup>[[III  
 ?]], [[underlined]] 1112, 1064, [[/underlined]] 3, 1, 2, 1, 3, |  
 . ^ | .6 | +81 30 | 7 6.4 | +81 24 | 242 | 6.3 | I | 165, 185, 353,  
 [[underlined]] 446, [[/underlined]] 458 [[underlined]] 1057 [[/underlined]]  
 1035, [[underlined]] 1071, [[/underlined]] 1119, 1229, 166 | . 5, 6, 8, 3, 6  
 7, 10, 5, 7, 7, 5. |  
 7 4.0 +75 22 . ^ [[strikethrough]] 58 | .0 | +75 26 | 7 4.0 | +75 22 | 291 |  
 8.3 | I | 1229, | 4, [[/strikethrough]] |  
 7 3.8 +73 29 . ^ | .2 | +73 33 | 7 3.8 | +73 29 | 366 | 7.5 | III ? | 1071,  
 1064<sup>h</sup>[[III]], | 2, 2, |  
 7 3.3 +62 26 . ^ 59 | .1 | +62 30 | 7 3.3 | +62 26 | 913 | 7.8 | I | 1071,  
 1119<sup>h</sup>[[II ?]], | 2, 2, |



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6<sup>h</sup>

[[6 columned table]]

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remarks |

| 10, ^[0] . ^[0] . ^[0] . ^[0] | 7.1, ^[0] 6.8 ^[0] | 6.9, 6.7 | . |

| . ^[0] . ^[0] . ^[0] 10, ^[0] S ^[0] S ^[0] . ^[0] . ^[0] | 7.1 ^[0] 6.9 ^[0] | 7.4 ^[0] 6.9 ^[0] | 7.2 ^[0] 6.9 ^[0] | 7.0 ^[0] 6.8 ^[0] | 7.3 ^[0] 7.1 ^[0] | 6.6 | 7.0 ^[0] 6.7 | 6.9 ^[0] 6.7 | . . . . |

| 10, ^[0] . ^[0] 10, ^[0] . ^[0] 10, ^[0] S ^[0] . ^[0] . ^[0] S ^[0] | 6.9 ^[0] 6.8 ^[0] | 7.3 ^[0] 7.0 ^[0] | 7.0 ^[0] 6.9 ^[0] | 7.2 ^[0] 6.9 ^[0] | 7.0 ^[0] 6.7 ^[0] | 7.4 ^[0] 7.3 | 7.7 ^[0] 7.4 | 7.5 ^[0] 7.4 | 8.0 ^[0] 7.7 | 7.6 ^[0] 7.3 | . . . . . |

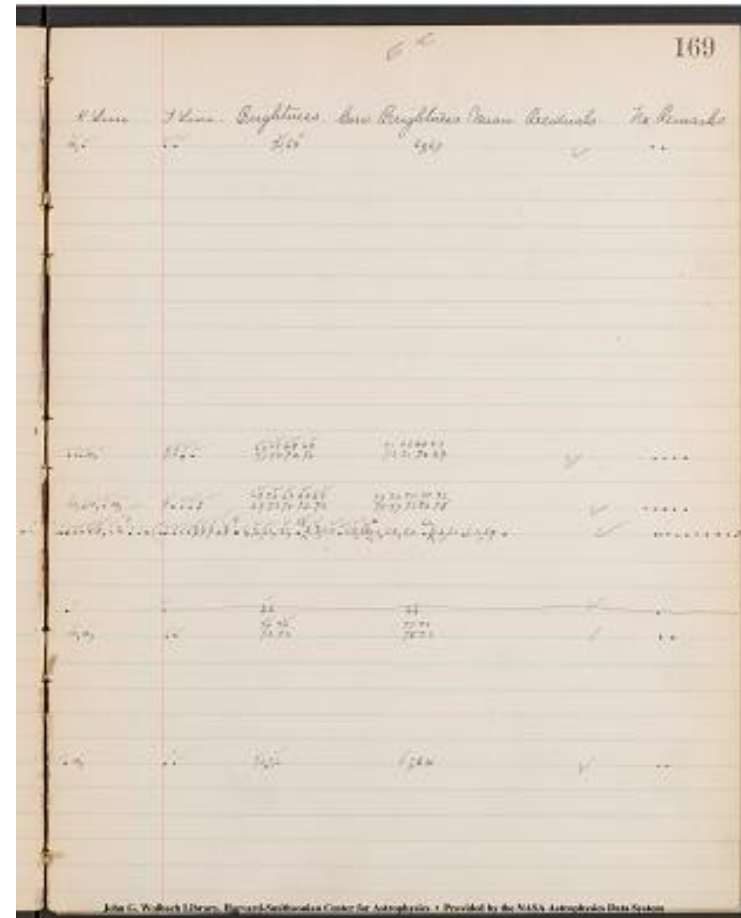
| . ^[0] . ^[0] . ^[0] . ^[0] 10, ^[0] . ^[0] 2 ^[0] ? ^[0] . ^[0] . ^[0] . ^[0] . ^[0] . ^[0] . ^[0] . ^[0] S  
S ^[0] S ^[0] . ^[0] S ^[0] ? ^[0] . | 6.2, ^[0] 6.1, ^[0] 5.1, ^[0] 5.8 ^[0] 5.3, ^[0] 5.5 ^[0] . ^[0] | 5.8, ^[0] 5.3 ^[0] | 6.0, 5.8, 5.2, 6.2 6.2, 6.1 6.3, 5.9. | . . . . . |

| . ^[0] | ~~6.6~~ | 6.6 ^[0] | 6.6 | . | ~~6.6~~ |

| 10, ^[0] 10, ^[0] . ^[0] . ^[0] | 7.2 ^[0] 7.0 ^[0] | 7.3 ^[0] 7.0 ^[0] | 7.5 ^[0] 7.3 | 7.3 ^[0] 7.0 | . |

| . ^[0] 10, ^[0] . ^[0] . ^[0] | 7.0, ^[0] 7.2 ^[0] | 6.7, 6.4 |

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7<sup>h</sup>[[h]]

[[10 columned table]]

| RA 1855|Dec 1855|RA 1900|Dec 1900|No DM|Mag.  
DM|Spectrum|No Plate|No Lines|

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

m

0

No. 120

| .3+82 40 | 7 10.0+86 36 | 201 | 5.5 | III<sup>^</sup>[[b]] | 165, 185<sup>^</sup>[[ab]],  
[[~~166~~]]<sup>^</sup>[[~~1~~]], 353<sup>^</sup>[[III]], 458<sup>^</sup>[[be]],  
1057<sup>^</sup>[[III]], 1035<sup>^</sup>[[be]], 1119<sup>^</sup>[[be]], 1229<sup>^</sup>[[be]], | 1, 2, [[~~1~~]],  
5, [[~~1~~]] 1, 3, 3, 3, 3, |  
| 7 7.7+78 6 | .9+78 10 | 7 | 7.7+7[[~~6~~]]8 6 |  
240 | 7.0 | II<sup>^</sup>[[a]] | 1035, 1071<sup>^</sup>[[II]], 1119<sup>^</sup>[[II?]], 1112<sup>^</sup>[[III]], 1064<sup>^</sup>[[III]], |  
--- | 3, 2, 2, 2, 2, |

1

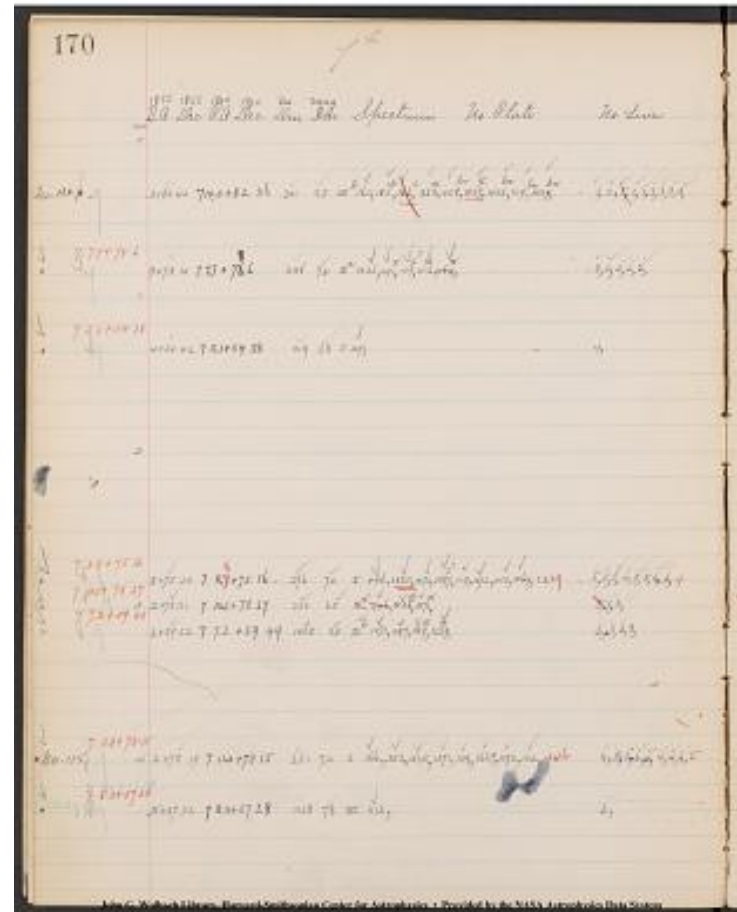
| 7 5.1+54 38 | .4+54 42 | 7 | 5.1+64 38 | 1119 | 0.8[[?]] | | 1071, | --- | 4,

2

| 7 8.8+75 16 | .8+75 20 | 7 | 8. [[~~7~~]]8+75 16  
296 | 7.0 | | 446, 1035, 1071, 1097<sup>^</sup>[[I?]], 1119, 1072, 1112, 1064,  
1229 | 5, 5, 0, 4, 5, 5, 6, 6, 4 |  
| 7 10.1+78 27 | 3 .2+78 31 | 7 | 10.1+78 27 | 250 | 6.5 |  
[[~~1~~]]<sup>^</sup>[[~~1~~]]<sup>^</sup>[[~~d~~?]] |  
[[~~446~~]]<sup>^</sup>[[~~1~~]] 1035<sup>^</sup>[[III]], 1071<sup>^</sup>[[III]], | --- |  
[[~~5~~]]<sup>^</sup>[[~~1~~]] 1, 3, |  
| 7 7.2+58 48 | .2+59 52 | 7 | 7.2+59 49 | 1005 | 5.0 | III<sup>^</sup>[[b]] | 1071,  
1097, 1119<sup>^</sup>[[III]], 1229<sup>^</sup>[[III]], | --- | 2, 3, 3, 3, |

No. 115

| 7 11.0+78 15 | 4 .2+78 19 | 7 | 11.0+78 15 | 251 | 7.0 | | 166, 353,  
1035, 1071, 1119, 1229, 1071, 1112, 446 | 4, 5, 6, 6, 4, 4, 4, 6, 5 |  
| 8h: mehid y 7h. [[?]] | [[~~7~~]] 8.3+57 28 [[~~1~~]] 8  
8.1+57 24 | .5+57 32 | 7 | 8.3+57 28 | 1128 | 7.8 | III | 1112, | 2, |



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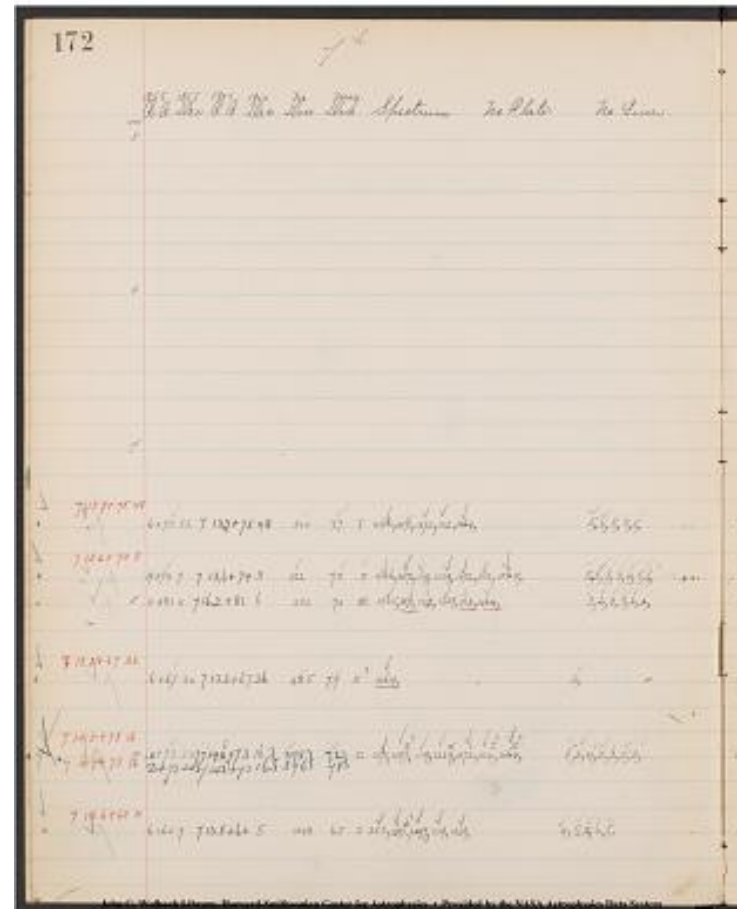
172

7<sup>h</sup>[h]

[[10 column table]]

---	1855 R.A.	1855 Dec.	1900 R.A.	1900 Dec.	No. DM.	Mag.
DM.	Spectrum.	No. Plate.	No. Lines.			
5 <sup>h</sup> [m]	---	---	---	---	---	---
6	---	---	---	---	---	---
7	---	---	---	---	---	---
• 7	13.7 +75 48	.6 +75 52 <sup>h</sup> [ ]	7	13.7 +75   48	300 <sup>h</sup> [ ]	7.7 <sup>h</sup> [ ]
446 <sup>h</sup> [ ]	1071 <sup>h</sup> [ ]	1072 <sup>h</sup> [ ]	1112 <sup>h</sup> [ ]	1064 <sup>h</sup> [ ]	5 <sup>h</sup> [ ]	6 <sup>h</sup> [ ]
5 <sup>h</sup> [ ]	5	••				
• 7	13.6 +74 3	.9 +74 7 <sup>h</sup> [ ]	7	13.6 +74   3	322 <sup>h</sup> [ ]	7.5 <sup>h</sup> [ ]   I <sup>h</sup> [ ]
446 <sup>h</sup> [ ]	1071 <sup>h</sup> [ ]	1119 <sup>h</sup> [ ]	1229 <sup>h</sup> [ ]	1072 <sup>h</sup> [ ]	1112 <sup>h</sup> [ ]	1064 <sup>h</sup> [ ]
5 <sup>h</sup> [ ]	6 <sup>h</sup> [ ]	3 <sup>h</sup> [ ]	3 <sup>h</sup> [ ]	4 <sup>h</sup> [ ]	5 <sup>h</sup> [ ]	6 <sup>h</sup> [ ]
••••						
• 8	.0 +81 11	7   16.2 +81	6	252   7.0	III	1035 <sup>h</sup> [ ]
1071 <sup>h</sup> [ ]	111 <sup>h</sup> 9 <sup>h</sup> [ ]	1229 <sup>h</sup> [ ]				
1112 <sup>h</sup> [ ]	1064 <sup>h</sup> [ ]	3 <sup>h</sup> [ ]	2 <sup>h</sup> [ ]	3 <sup>h</sup> [ ]	3 <sup>h</sup> [ ]	2 <sup>h</sup> [ ]
• 7	13.2 +67 26	.6 +67 30 <sup>h</sup> [ ]	7	13.2 +67   26	485 <sup>h</sup> [ ]	7.9 <sup>h</sup> [ ]
II <sup>h</sup> [ ]	1064 <sup>h</sup> [ ]	2 <sup>h</sup> [ ]				
• 7	14.7 +73 16	9   2				
+73 20 <sup>h</sup> [ ]	0 <sup>h</sup> +73 20	7 <sup>h</sup> [ ]	14.	2		
+73 <sup>h</sup> [ ]	14.	5	16	9		
376 <sup>h</sup> [ ]	375	7.8	7.2			
1071 <sup>h</sup> [ ]	1097 <sup>h</sup> [ ]	1119 <sup>h</sup> [ ]				
1229 <sup>h</sup> [ ]	1072 <sup>h</sup> [ ]	1112 <sup>h</sup> [ ]	1064 <sup>h</sup> [ ]	6 <sup>h</sup> [ ]	2 <sup>h</sup> [ ]	4 <sup>h</sup> [ ]
3 <sup>h</sup> [ ]	5 <sup>h</sup> [ ]	3 <sup>h</sup> [ ]				
• 7	13.6 +60 4	.6 +60 9	7	13.5 +60   5	1048	6.5
1071 <sup>h</sup> [ ]	1097 <sup>h</sup> [ ]	1119 <sup>h</sup> [ ]	1229 <sup>h</sup> [ ]	4 <sup>h</sup> [ ]	5 <sup>h</sup> [ ]	5 <sup>h</sup> [ ]
5 <sup>h</sup> [ ]	•					

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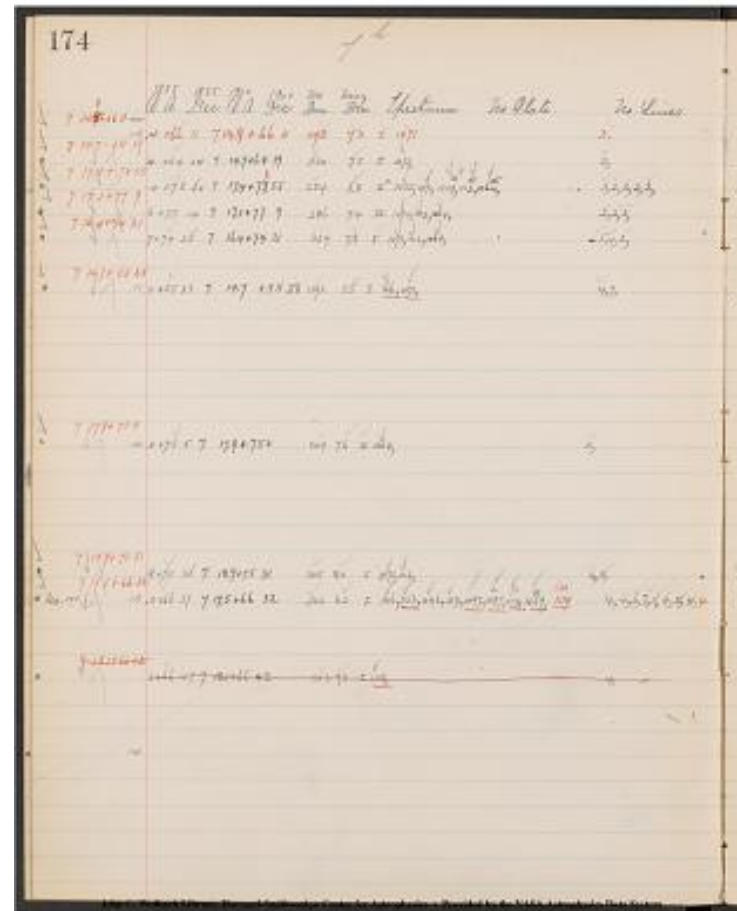
174

7<sup>h</sup>[h]

[[10 column table]]

| --- | R.A. 1855 | Dec. 1855 | R.A. 1900 | Dec. 1900 | No. DM. | Mag.  
DM. | Spectrum. | No. Plate. | No. Lines. |  
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |  
| 7 14. [[~~14.9~~]] 8 [[~~14.9~~]] 9 +66 0 10<sup>m</sup> | .4 + 66 5<sup>m</sup> |  
7 | 14.9 +66 | 0 | 498<sup>m</sup> | 7.3<sup>m</sup> | 1<sup>m</sup> | 1071<sup>m</sup> | 3<sup>m</sup> |  
| .7 14.7 + 64 19 | .4 + 64 24<sup>m</sup> | 7 | 14.7 +64 | 19 | 630<sup>m</sup> | 7.5<sup>m</sup> |  
1<sup>m</sup> | 1071<sup>m</sup> | 3<sup>m</sup> |  
| .7 17.4 + 78 55 | .4 + 78 60<sup>m</sup> | 7 | 17.4  
+7 [[~~14.9~~]] 7 [[~~14.9~~]] 8 | 55 | 254<sup>m</sup> | 6.8<sup>m</sup> | IIa |  
1035<sup>m</sup> | 1071<sup>m</sup> | 1229<sup>m</sup> | 1112<sup>m</sup> | 1064<sup>m</sup> | 3<sup>m</sup> | 2<sup>m</sup> |  
2<sup>m</sup> | 2<sup>m</sup> | 2<sup>m</sup> |  
| .7 17.1 + 77 9 | .6 + 77 14 | 7 | 17.1 +77 | 9 | 286 | 7.4 | III | 1071<sup>m</sup> |  
1112<sup>m</sup> | 1064<sup>m</sup> | 2<sup>m</sup> | 2<sup>m</sup> | 2<sup>m</sup> |  
| .7 16.4 + 74 21 | .7 + 74 26<sup>m</sup> | 7 | 16.4 +74 | 21 | 324<sup>m</sup> | 7.8<sup>m</sup> |  
1<sup>m</sup> | 1071<sup>m</sup> | 1112<sup>m</sup> | 1064<sup>m</sup> | .5<sup>m</sup> | 4<sup>m</sup> | 2<sup>m</sup> |  
.7 14.7 +55 28 11	.0 +55 33<sup>m</sup>	7	14.7 +55	28	1192<sup>m</sup>	5.5<sup>m</sup>
	166<sup>m</sup>	1071<sup>m</sup>	4<sup>m</sup>	7		
.7 17.9 +75 0 12	.0 +75 5<sup>m</sup>	7	17.9 +75	0	304<sup>m</sup>	7.6<sup>m</sup>
II<sup>m</sup>	1064<sup>m</sup>	2<sup>m</sup>				
.7 18.9 +75 31	.9 +75 36<sup>m</sup>	7	18.9 +75	31	305<sup>m</sup>	8.0<sup>m</sup>
1071<sup>m</sup>	1112<sup>m</sup>	4<sup>m</sup>	3<sup>m</sup>			
.No. 111 7 17.5 +66 32 13	.0 +66 37<sup>m</sup>	7	17.5 +66	32	.502<sup>m</sup>	
6.2<sup>m</sup>	.1	.166<sup>m</sup>	353<sup>m</sup>	446<sup>m</sup>		
1071<sup>m</sup>	1097<sup>m</sup>	1097<sup>m</sup>	1119<sup>m</sup>	1229<sup>m</sup>		
1119<sup>m</sup>	4<sup>m</sup>	4<sup>m</sup>	6<sup>m</sup>	7<sup>m</sup>	5<sup>m</sup>	4<sup>m</sup>
4<sup>m</sup>	4					
.7 18.1 +66 42	.66 +66 47<sup>m</sup>	7	18.1 +66	42		
503<sup>m</sup> | 7.3<sup>m</sup> | | 1119<sup>m</sup> |  
4. |  
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- |

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7h

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remarks |

| . | . | 6.9 | 6.5 | --- | ☐ | . |  
 | . | . | 6.9 | 6.7 | --- | ☐ | . |  
 | 10, 10, 10, 10, 10, | S.... | 6.9, 6.9, 6.9 6.9<sup>^</sup>[[6.7]] 6.9<sup>^</sup>[[6.8]] | 7.2, 7.6,  
 7.2 7.5<sup>^</sup>[[7.3]] 7.3<sup>^</sup>[[7.2]] | --- | ☐ | 705, 730,... |  
 | 10, 10, 10, | ... | 7.1<sup>^</sup>[[6.9]] 7.3<sup>^</sup>[[7.0]] 7.0<sup>^</sup>[[6.9]] | 7.6<sup>^</sup>[[7.4]] 7.7<sup>^</sup>[[7.4]]  
 7.2<sup>^</sup>[[7.1]] | --- | ☐ | ... |  
 | 10, 10, 10, | ... | 6.8, 6.9, 6.8 | 7.1, 7.1, 6.8 | --- | ☐ |  
 ... |  
..	..	6.8, 6.6	5.3, 6.1	---	☐	..
10,	.	7.0	7.1	---	☐	.
..	..	6.9, 7.0,	7.3, 7.3,	---	☐	..
?..10,...	...S....J[[?]]	7.5, 6.7, 6.0, 6.2, 6.9. 6.7, 6.5..	6.4, 5.7, 6.0,			
 6.1, ?. 6.1, 6.0. | ☐ | ..... |  
~~[[strikethrough]]~~ | . | S | . | . | --- | ☐ | . |  
~~[[/strikethrough]]~~ |

175

K Line	F Line	Brightness	Corr. Brightness	Mean. Residuals	No. Remarks
		6.9	6.5		
		6.9	6.7		
10, 10, 10, 10, 10,	S....	6.9, 6.9, 6.9	6.9 <sup>^</sup> [[6.7]] 6.9 <sup>^</sup> [[6.8]]	7.2, 7.6,	
7.2 7.5 <sup>^</sup> [[7.3]] 7.3 <sup>^</sup> [[7.2]]	---	<input type="checkbox"/>	705, 730,...		
10, 10, 10,   ...	7.1 <sup>^</sup> [[6.9]] 7.3 <sup>^</sup> [[7.0]] 7.0 <sup>^</sup> [[6.9]]	7.6 <sup>^</sup> [[7.4]] 7.7 <sup>^</sup> [[7.4]]			
7.2 <sup>^</sup> [[7.1]]   ---	<input type="checkbox"/>	...			
10, 10, 10,   ...	6.8, 6.9, 6.8   7.1, 7.1, 6.8   ---	<input type="checkbox"/>			
...					
..   ..   6.8, 6.6   5.3, 6.1   ---	<input type="checkbox"/>	..			
10,   .   7.0   7.1   ---	<input type="checkbox"/>	.			
..   ..   6.9, 7.0,   7.3, 7.3,   ---	<input type="checkbox"/>	..			
?..10,...   ...S....J[[?]]	7.5, 6.7, 6.0, 6.2, 6.9. 6.7, 6.5..	6.4, 5.7, 6.0,			
6.1, ?. 6.1, 6.0.   <input type="checkbox"/>	.....				
<del>[[strikethrough]]</del>   .   S   .   .   ---	<input type="checkbox"/>	.			
<del>[[/strikethrough]]</del>					

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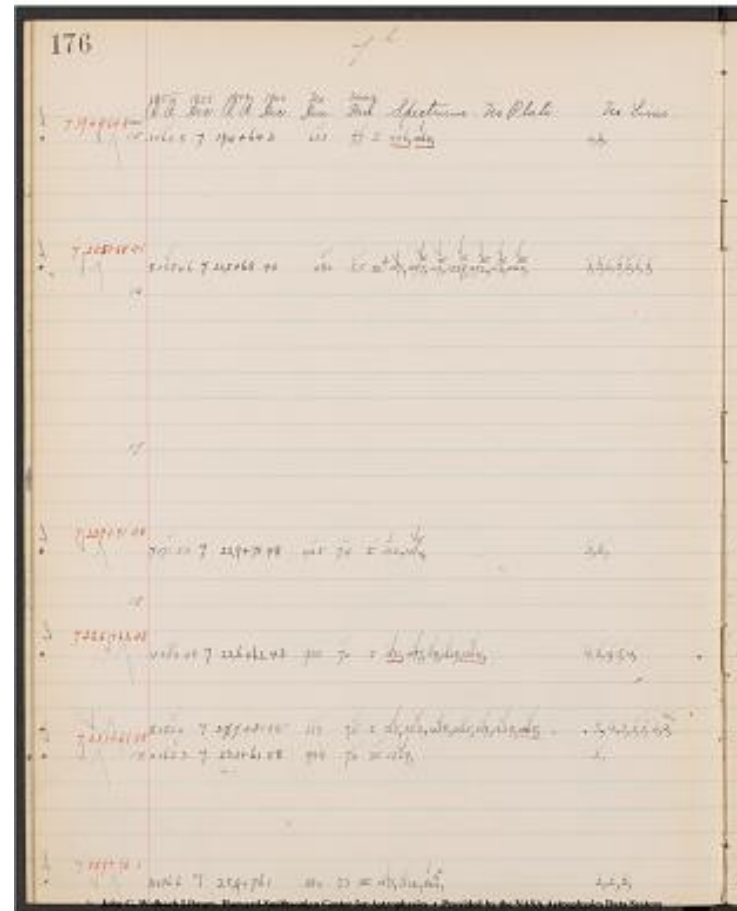
176

7<sup>h</sup>[[h]]

[[10 columned table]]

| RA 1855|Dec 1855|RA 1900|Dec 1900|No DM|Mag.  
DM|Spectrum|No Plate|No Lines|  
|---|---|---|---|---|---|---|

| 7 19.4+64 3 | m 15 | .1+64 8 | 7 | 19.4+64 3 | 633 | 7.7 | I | 446, 1064, |  
--- | 4, 6, |  
| 7 20.5+68 41 | .8+68 46 | 7 | 20.5+68 | 40 | 480 | 5.5 | III<sup>h</sup>[[b]] | 1071,  
1097<sup>h</sup>[[III]], 1119<sup>h</sup>[[III]], 1229<sup>h</sup>[[III]], 1072<sup>h</sup>[[III]], 1112<sup>h</sup>[[III]], 1064<sup>h</sup>[[III]], | -  
-- | 3, 3, 2, 3, 2, 2, 3, |  
16  
17  
| 7 22.9+71 48 | .7+71 53 | 7 | 22.9+71 48 | 405 | 7.4 | I | 1112,  
1064<sup>h</sup>[[?]]<sup>h</sup>[[III]], | --- | 3, 2, |  
18  
| 7 22.6+62 43 | .4+62 48 | 7 | 22.6+62 43 | 933 | 7.0 | I | 1071, 1097,  
1119, 1229, 1064, | --- | 4, 3, 4, 5, 4, |  
| .8 + 82 0 | 7 | 27.7+81 55 | 213 | 7.5 | I | 185, 353, 458, 1035, 1119,  
1229, 1065, . | --- | .3, 4, 3, 5, 3, 4, 2, |  
| 7 23.1+61 58 | 19 | .0+62 3 | 7 | 23.1+61 58 | 934 | 7.0 | III | 1229, | --- |  
2, |  
| 7 25.9+76 1 | .8+76 6 | 7 | 25.9+76 1 | 284 | 7.3 | III | 1071, 1112,  
1064<sup>h</sup>[[IIa]], | --- | 2, 2, 2, |



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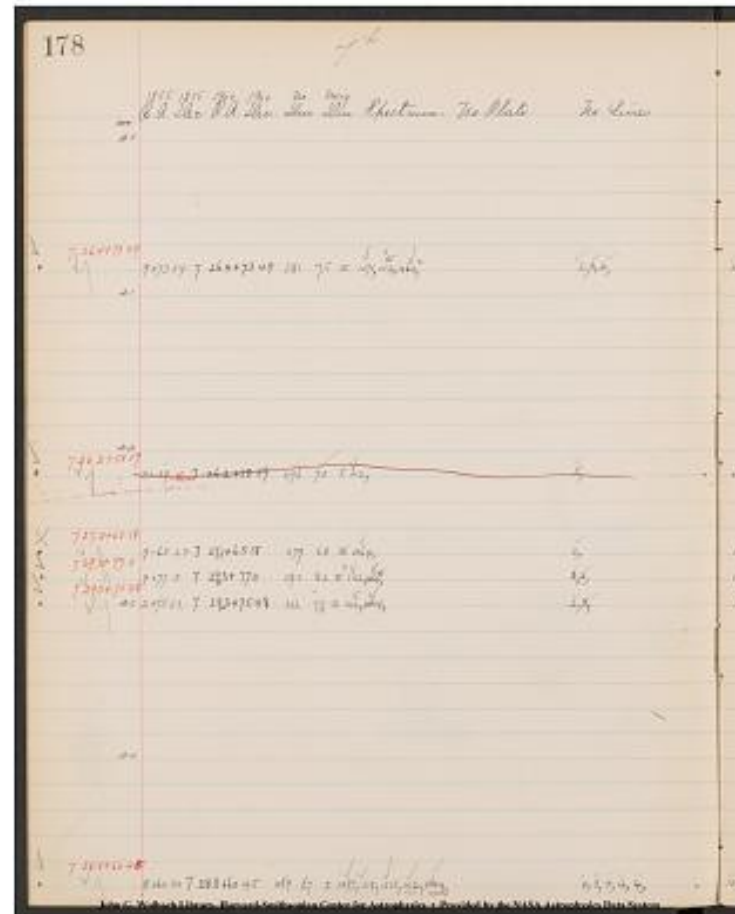


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7h

[[10 column table]]

	R.A. 1855	Dec. 1855	R.A. 1900	Dec. 1900	No. DM.	Mag.
DM.	Spectrum.	No. Plate.	No. Lines			
20 <sup>h</sup> [[m]]						
• 7 26.4 +73 49	.9 +73 54	7   26.4 +73   49	381   7.5   II	1071 <sup>h</sup> [[m]],		
1112 <sup>h</sup> [[m]],	1064 <sup>h</sup> [[a]],	2 <sup>h</sup> [[m]],	3 <sup>h</sup> [[m]],	2 <sup>h</sup> [[m]].		
21						
22						
• 7 26.2 +58 59	[[strikethrough]] 3 +59 4 <sup>h</sup> [[m]]	7   26.2 +58   59				
1176 <sup>h</sup> [[m]]	7.0 <sup>h</sup> [[m]]	1112 <sup>h</sup> [[m]],	5 <sup>h</sup> [[m]],	[[strikethrough]]		
• X 7 27.0 +65 18	.7 +65 23	7   27.1 +65   18	579   6.8   III			
1064 <sup>h</sup> [[m]],	2 <sup>h</sup> [[m]].					
• 7 29.3 +77 0	.9 +77 5	7   29.3 +77   0	293   8.2   II <sup>h</sup> [[?]]	1112 <sup>h</sup> [[m]].		
1064 <sup>h</sup> [[m]],	2 <sup>h</sup> [[m]],	2 <sup>h</sup> [[m]].				
• 7 29.3 +75 48	.2 +75 53 <sup>h</sup> [[m]]	7   29.3 +75   48	312 <sup>h</sup> [[m]]	7.7 <sup>h</sup> [[m]]		
II   1112 <sup>h</sup> [[m]],	1064 <sup>h</sup> [[m]],	2 <sup>h</sup> [[m]],	3 <sup>h</sup> [[m]].			
24						
• 7 28.8 +60 45	.8 +60 50	7   28.8 +60   45	1069   6.7   I	1097 <sup>h</sup> [[m]].		
1119 <sup>h</sup> [[m]],	1229 <sup>h</sup> [[m]],	[[underline]] 1112 <sup>h</sup> [[m]],	1064 <sup>h</sup> [[m]],	[[underline]] 4 <sup>h</sup> [[m]],		
3 <sup>h</sup> [[m]],	4 <sup>h</sup> [[m]],	4 <sup>h</sup> [[m]],	4 <sup>h</sup> [[m]].	•		



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7<sup>h</sup>

[[6 columned table]]

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remarks |

| 10, ^[0] 10, ^[0] 10, ^[0] | ^[0] S ^[0] | ^[0] 6.9 ^[0] 7.1, ^[0] 6.9 ^[0] 7.2  
7.3, ^[0] 7.1 6.9 | ..796 |

| ^[0] ~~^[0]~~ | ^[0] 6.5 ^[0] 6.0 | | ~~^[0]~~ |

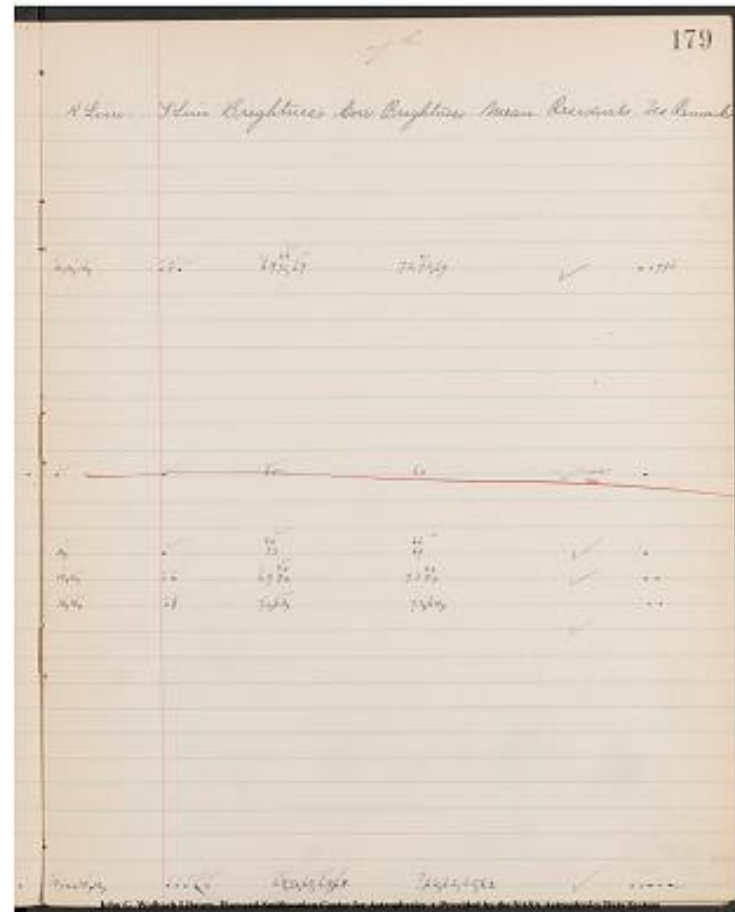
| 10, ^[0] | ^[0] 7.3 ^[0] 7.0 ^[0] | 6.9 ^[0] 6.6 | | |

| 10, ^[0] 10, ^[0] | ^[0] | ^[0] 6.9 ^[0] 7.2 ^[0] 7.0 ^[0] | 7.3 7.4 ^[0] 7.2 | | |

| 10, ^[0] 10, ^[0] | ^[0] S ^[0] | 7.0, ^[0] 6.3, ^[0] 7.3, 6.4, | | | | .. |

| 10, ^[0] | ^[0] | ^[0] 10, ^[0] 10, | ^[0] | ^[0] | ^[0] | ^[0] | 6.8, ^[0] 7.0, 6.9, 6.9, ^[0] 6.  
8 ^[0] | 7.6, 2, 6.2, 6.5, 6.2 | | ..... |

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7h

| | 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |  
m  
25

26

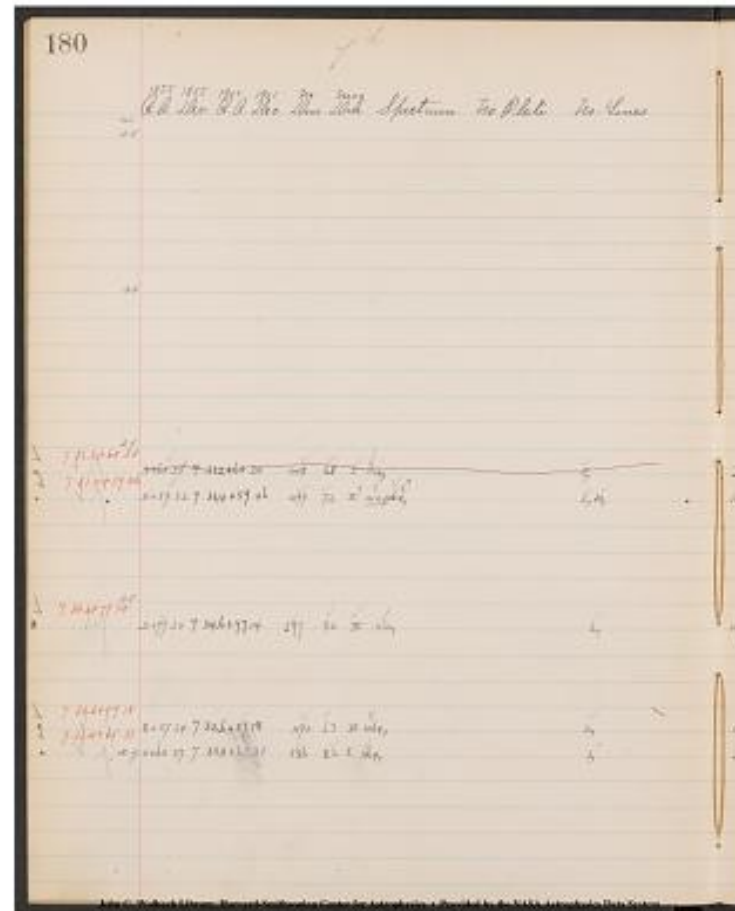
[check mark] 7 31.2+60 20^24  
[[strikedthrough]] .3+60^[[checkmark]] 20 7 .31.2+60  
20 1148^[[checkmark]] 6.8^[[checkmark]] 1^[[checkmark]]  
1112,^[[checkmark]] 5,^[[checkmark]] .^[[checkmark]]

.^[[checkmark]] 7 81.4+5946 .5+59 52 7 31.4 + 59 46  
1099^[[checkmark]] 7.2^[[checkmark]] II^? [[underlined]] 1112,1  
06^[[checkmark]] 4^? 2^[[checkmark]], 10^[[checkmark]],  
10^[[checkmark]],

.^[[checkmark]] 7 34.6+77 14^28 .2+77 20 34.6+77 14  
297^[[checkmark]] 8.0^[[checkmark]] III^[[checkmark]]  
1112,^[[checkmark]] 2,^[[checkmark]] 10^[[checkmark]],

.^[[checkmark]] 7 32.6+57 18 .8+57 24 7 32.6+ 57^[[checkmark]]  
1093^[[checkmark]] 6.3^[[checkmark]] III 1064,^[[checkmark]]  
2,^[[checkmark]] 10^[[checkmark]],  
.^[[checkmark]] 7 33.4+65 31 .29.0+65 37 7 33.4+65.31  
586^[[checkmark]] 8.2^[[checkmark]] I 1064^[[checkmark]]  
3,^[[checkmark]] .^[[checkmark]]

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7<sup>h</sup>

[[6 columned table]]

| K Line | F Line | Brightness | Corr. Brightness | Mean Residuals | No. Remarks |

| .<sup>h</sup> | .<sup>h</sup> | .<sup>h</sup> | .<sup>h</sup> | .<sup>h</sup> | .<sup>h</sup> |

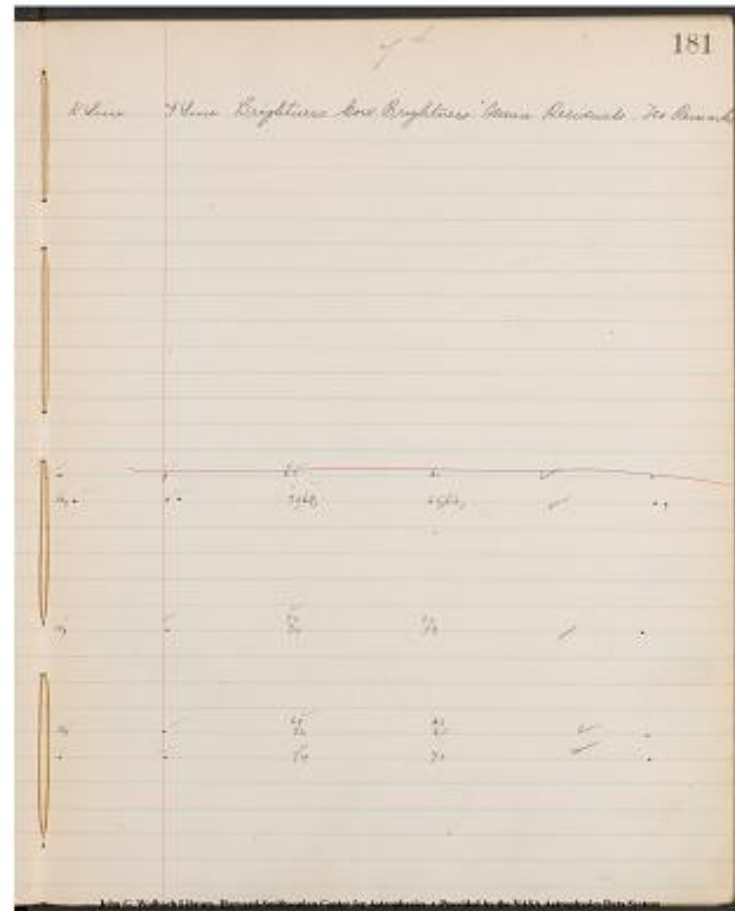
| 10, .<sup>h</sup> | .<sup>h</sup> | .<sup>h</sup> | 7.0, .<sup>h</sup> | 6.9, .<sup>h</sup> | 6.5, 6.2, || . |

| 10, .<sup>h</sup> | .<sup>h</sup> | 7.4<sup>h</sup> | 7.0<sup>h</sup> | 7.8<sup>h</sup> | 7.4<sup>h</sup> | . |

| 10, .<sup>h</sup> | .<sup>h</sup> | 7.2<sup>h</sup> | 6.9<sup>h</sup> | 6.5<sup>h</sup> | 6.2<sup>h</sup> | . |

| .<sup>h</sup> | .<sup>h</sup> | 7.4<sup>h</sup> | 7.0<sup>h</sup> | . |

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7<sup>h</sup>[[h]]

[[6 columned table]]

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No.  
Rem |

|.^[[]|.^[[]|7.3^[[]|7.0^[[]|6.7^[[]|6.4|)|.|

|.^[[]|.^[[]|6.7^[[]|5.6|)|.|

|10,^[[]|.^[[]|7.1^[[]|7.0^[[]|7.7^[[]|7.6|)|.|

|.^[[]|.^[[]|6.9^[[]|6.7^[[]|7.9^[[]|7.7|)|.|

|5,^[[]2,^[[]|.^[[]2,^[[]|.^[[]?.^[[]|.^[[]|.^[[]S^[[]|.^[[]S^[[]S^[[]?]]S^[[]|5.6,^[[]  
|6.2,^[[]5.4,^[[]5.4,^[[]5.9,^[[]5.5,^[[]5.6^[[]|4.3,4.7,5.1,?,5.0,4.7,5.0|)|...  
....|

|10,^[[]10,^[[]|.^[[]|.^[[]|.^[[]|.^[[]|7.0,^[[]6.8,^[[]6.5,^[[]|6.6,6.7,6.2,|)|...|

|10,^[[]10,^[[]10,^[[]|.^[[]|.^[[]|.^[[]|7.2^[[]7.2^[[]|7.0^[[]|6.9^[[]6.7^[[]|6.8  
7.2^[[]7.0|)|6.7^[[]6.5|)|...|

[[~~]]10,^[[]|[[~~]]10,^[[]10,^[[]10,^[[]10,^[[]10,^[[]  
|[[~~]]|.^[[]|[[~~]]|.^[[]S^[[]S^[[]S^[[]|[[~~]]|6.3,^[[]7.2,^[[]|[[~~]]|6.4,^[[]6.7,^[[]6.5^[[]|6.6,^[[]6.7^[[]  
6.5^[[]6.2^[[]|[[~~]]|6.3,7.0,|[[~~]]|7.3  
7.1,^[[]6.9|)|7.1,7.4  
7.3^[[]7.0|)|[[~~]]|.745,^[[]753,^[[]791^[[]|~~~~~~~~~~~~~~~~~~

|10,^[[]|.^[[]|.^[[]|.^[[]|6.8^[[]6.9^[[]|6.6 6.5^[[]6.3|)|.|

|10,^[[]10,^[[]10,^[[]|.^[[]|.^[[]S^[[]|7.1^[[]6.9^[[]|6.8^[[]6.5^[[]|6.9^[[]6.6^[[]  
|6.8^[[]6.6|)|6.6^[[]6.3|)|6.5^[[]6.2|)|.^[[]782,^[[]800^[[]|

|.^[[]|.^[[]|.^[[]|.^[[]|.^[[]|.^[[]|.774,^[[]|

|.^[[]10,^[[]|.^[[]10,^[[]|.^[[]10,^[[]10,^[[]10,^[[]|[[?^[[]|

|.^[[]|.^[[]|.^[[]|.^[[]10,^[[]|.^[[]10,^[[]|.^[[]|...^[[]|.^[[]|.^[[]|.^[[]|.^[[]|7.3,^[[]  
|6.5,^[[]6.9,^[[]6.9,^[[]6.9,^[[]6.7,^[[]6.4,^[[]6.5^[[]|6.0,6.4,?,6.2,6.3,6.  
3.6.1|)|.....|

|.^[[]|.^[[]|.^[[]|.^[[]5,^[[]|.^[[]|.^[[]|.^[[]S^[[]|.^[[]|.^[[]|.^[[]|6.8,^[[]6.  
5,^[[]6.5,^[[]6.5,^[[]6.5,^[[]6.0^[[]6.6^[[]|7.7,7.6,7.9,7.5,7.6,7.5  
7.9,|)|.....|

|10,^[[]10,^[[]|.^[[]S^[[]|7.0^[[]7.2^[[]|7.0^[[]|6.4^[[]6.4^[[]6.2|)|.|

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7h

| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |

m 3b

[[checkmark]] 789.6+64 37  
[[4?]] +64 43 739.6+64 37 [[checkmark]] 65. [[checkmark]] 7.8  
[[checkmark]] II? [[checkmark]] 1064 2  
[[checkmark]] 739.3+60 33  
[[checkmark]] 4+60 39 739.3+60 33 [[checkmark]] 1082 [[checkmark]]  
7.0 [[checkmark]] III [[checkmark]] 1112, ~~1064 II?~~  
~~[[/strikethrough]] 2, ~~[[/strikethrough]] 2 2 ~~[[/strikethrough]]~~~~  
[[checkmark]] 743.3+80 8  
[[checkmark]]  
8+80 14 7 43.3+80 7 [[checkmark]] 240 [[checkmark]] 6.5 [[checkmark]]  
[[symbol - 3]] [[checkmark]] 1035, [[checkmark]] 1071, [[checkmark]]  
1112, [[checkmark]] 1064, [[checkmark]] 1113,  
[[/underlined]] [[checkmark]] 1, 1, [[checkmark]] 1, [[checkmark]] 2,  
[[checkmark]] 2,  
36~~

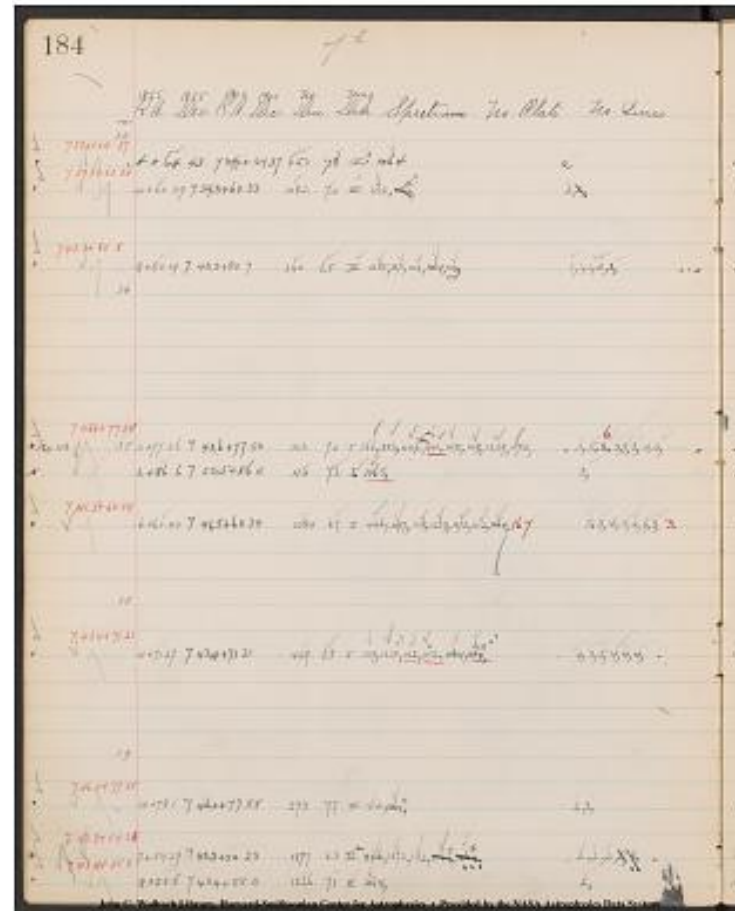
[[checkmark]] 743.6+7750  
[[?]].113 34.0+77 56 7 43.6 +77 50 303 4.0 I [[checkmark]] 166,  
[[checkmark]] 353, [[checkmark]] 44.6, ~~[[/strikethrough]] II~~  
~~[[/strikethrough]]~~ ~~[[/strikethrough]] a ~~[[/strikethrough]]~~ [[checkmark]] 441,~~  
[[checkmark]] 1071, [[checkmark]] 1119, [[checkmark]] 1229,  
[[checkmark]] 1072, . [[checkmark]] 3, [[checkmark]] 5, [[checkmark]]  
~~[[/strikethrough]] 2 ~~[[/strikethrough]] 6, [[checkmark]] 3, [[checkmark]] 9,~~~~  
[[checkmark]] 3, 4, [[checkmark]] 6.  
[[checkmark]] 2+86 6 7 52.5+860. [[checkmark]] 113 [[checkmark]] 7.2  
[[checkmark]] 1. [[checkmark]] 1065, [[/underlined]] 3,  
[[checkmark]] 7.1.5+60 34  
[[checkmark]] 6+60 40 7 41.5+60 34 [[checkmark]] 1084 [[checkmark]]  
6.4 I [[checkmark]] 446, [[checkmark]] 1097, [[checkmark]] 1119,  
[[checkmark]] 1229, [[checkmark]] 1072, [[checkmark]] 1112,  
[[checkmark]] 1064, 164 [[checkmark]] 5, [[checkmark]] 3, [[checkmark]]  
4, [[checkmark]] 4, [[checkmark]] 2, [[checkmark]] 6, [[checkmark]] 3, 3.

38

[[checkmark]] 743.4+71 21  
[[checkmark]] 4+7127 7 43.4+71 21 [[checkmark]] 429 [[checkmark]] 6.8  
I [[checkmark]] 1119, [[checkmark]] 1229, I? [[checkmark]] 1112,  
1112, [[/underlined]] [[checkmark]] 1112, 2 [[/underlined]]  
[[checkmark]] 1064, 1 [[checkmark]] 1064, 2 II a ?  
[[/underlined]] [[checkmark]] 4, [[checkmark]] 3, [[checkmark]] 5,  
[[checkmark]] 4, [[checkmark]] 4, [[checkmark]] 4, .

39

[[checkmark]] 746.0+77 55  
[[checkmark]] 4+781 4 46.0+77 55 7.7 II [[checkmark]] 1112,  
[[checkmark]] 1064, a 2,3,



[[checkmark]] 743.3+54 2[[3?]]  
7+54 29 4 43.3+54 23 1174 6.3 II a [[checkmark]] 446, [[checkmark]]  
1072, [[checkmark]] 1112, [[checkmark]] ~~1064~~,  
~~1064~~ I [[checkmark]] ~~1064~~ ~~1064~~  
... II [[checkmark]] 2, [[checkmark]] 2, [[checkmark]] 2, ~~5~~,  
3, ~~5~~.  
[[checkmark]] 743.4+550  
[[checkmark]] 8+556 4 43.4+550 [[checkmark]] 1226 [[checkmark]] 4.1  
[[checkmark]] II [[checkmark]] 1064, [[checkmark]] 2,

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. Provided by the NASA Astrophysics Data System

[[right margin]] 10  
[[checkmark]]  
10,

[[checkmark]]

[[checkmark]]

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[[checkmark]]  
10,

[[checkmark]]  
10,

[[checkmark]]  
10,

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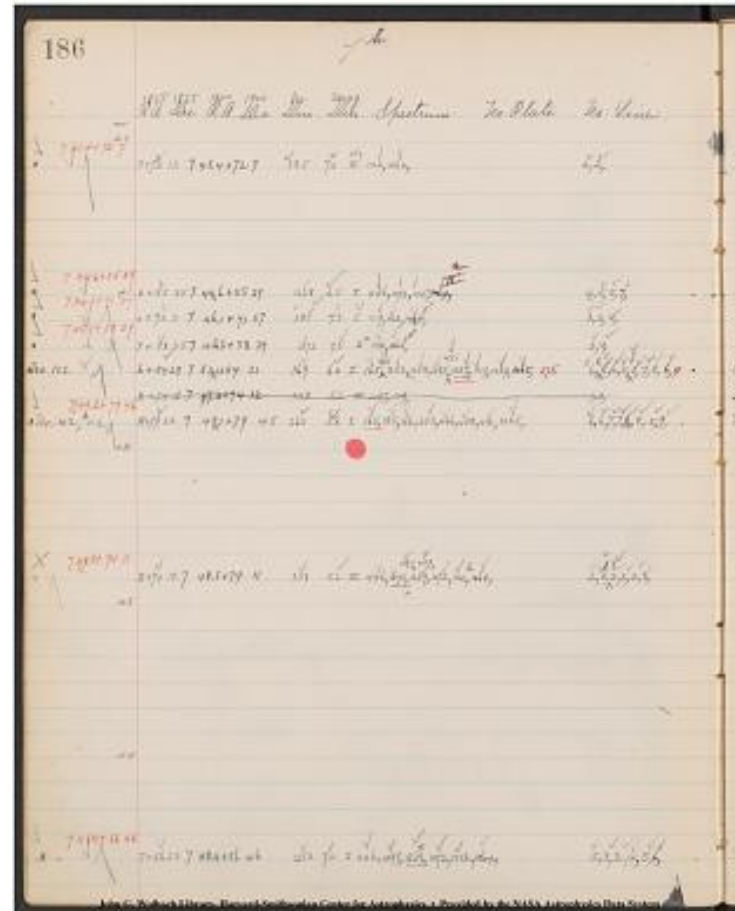
186

7h

[[10 column table]]

| --- | R.A. 1855 | Dec. 1855 | R.A. 1900 | Dec. 1900 | No. DM. | Mag.  
 DM. | Spectrum. | No. Plate. | No. Lines. |  
 | --- | --- | --- | --- | --- | --- | --- |  
 | 40<sup>^</sup>[m] | | | | | | | | |  
 | • 7 45.4 +72 7 | .3 +72 13<sup>^</sup>[ ] | 7 | 45.4 +72 | 7 | 385<sup>^</sup>[ ] | 7.0<sup>^</sup>[ ] |  
 | 1112<sup>^</sup>[ ] | 1064<sup>^</sup>[ ] | 2<sup>^</sup>[ ] | 2<sup>^</sup>[ ] | |  
 | • 7 44.6 +55 29 41 | .0 +55 35<sup>^</sup>[ ] | 7 | 44.6 +55 | 29 | 1228<sup>^</sup>[ ] | 6.5<sup>^</sup>[ ]  
	446<sup>^</sup>[ ]	1072<sup>^</sup>[ ]	1112<sup>^</sup>[ ]	~~1064<sup>^</sup>[ ]~~			
4<sup>^</sup>[ ]	4, 5<sup>^</sup>[ ]	5<sup>^</sup>[ ]	7<sup>^</sup>[ ]	• •			
• 7 46.1 +71 57	.0 +72 3<sup>^</sup>[ ]	7	46.1 +71	57	386<sup>^</sup>[ ]	7.3<sup>^</sup>[ ]	
1119<sup>^</sup>[ ]	1112<sup>^</sup>[ ]	1064<sup>^</sup>[ ]	3<sup>^</sup>[ ]	3<sup>^</sup>[ ]	4<sup>^</sup>[ ]		
• 7 45.5 +58 29	.7 +58 35<sup>^</sup>[ ]	7	45.5 +58	29	1072<sup>^</sup>[ ]	7.5<sup>^</sup>[ ]	
1112<sup>^</sup>[ ]	1064<sup>^</sup>[ ]	2<sup>^</sup>[ ]	4<sup>^</sup>[ ]				
• No. 122	.6 +84 28<sup>^</sup>[ ]	7	53.1 +84	21	169<sup>^</sup>[ ]	6.0<sup>^</sup>[ ]	
165<sup>^</sup>[ ]	185<sup>^</sup>[ ]	353<sup>^</sup>[ ]	458<sup>^</sup>[ ]	495<sup>^</sup>[ ]	435<sup>^</sup>[ ]		
1057<sup>^</sup>[ ]	1119<sup>^</sup>[ ]	1229<sup>^</sup>[ ]	1065<sup>^</sup>[ ]	275	6<sup>^</sup>[ ]	6<sup>^</sup>[ ]	
8<sup>^</sup>[ ]	6<sup>^</sup>[ ]	5<sup>^</sup>[ ]	6<sup>^</sup>[ ]	7<sup>^</sup>[ ]	8<sup>^</sup>[ ]	6<sup>^</sup>[ ]	4 •
---	~~8 +74 18~~	7	47.3 +74	12	338	5.2	III
1119,	1, 3, ~~1~~						
• No. 102, 112 7 49.2 +79 46	.9 +79 52<sup>^</sup>[ ]	7	49.1 +79	45	265<sup>^</sup>[ ]		
5.8<sup>^</sup>[ ]		165<sup>^</sup>[ ]	165<sup>^</sup>[ ]	185<sup>^</sup>[ ]	166<sup>^</sup>[ ]	353<sup>^</sup>[ ]	
446<sup>^</sup>[ ]	458<sup>^</sup>[ ]	441<sup>^</sup>[ ]	1035<sup>^</sup>[ ]	6<sup>^</sup>[ ]	6<sup>^</sup>[ ]	7<sup>^</sup>[ ]	7<sup>^</sup>[ ]
8<sup>^</sup>[ ]	5<sup>^</sup>[ ]	9<sup>^</sup>[ ]	•				
42							
X 7 48.3 +74 11	.8 +74 18<sup>^</sup>[ ]	7	48.5 +74	11	338<sup>^</sup>[ ]	5.2<sup>^</sup>[ ]	
III	446<sup>^</sup>[ ]	1071<sup>^</sup>[ ]	1097<sup>^</sup>[ ]	1119<sup>^</sup>[ ]			
1229<sup>^</sup>[ ]	1072<sup>^</sup>[ ]	1112<sup>^</sup>[ ]	1064<sup>^</sup>[ ]	2<sup>^</sup>[ ]	3<sup>^</sup>[ ]	1<sup>^</sup>[ ]	3<sup>^</sup>[ ]
2<sup>^</sup>[ ]	2<sup>^</sup>[ ]	3<sup>^</sup>[ ]					
43							
44							
• 7 48.4 +56 46	.7 +56 53<sup>^</sup>[ ]	7	48.4 +56	46	1253<sup>^</sup>[ ]	7.0<sup>^</sup>[ ]	
446<sup>^</sup>[ ]	1097<sup>^</sup>[ ]	1229<sup>^</sup>[ ]	1072<sup>^</sup>[ ]				
1112<sup>^</sup>[ ]	1064<sup>^</sup>[ ]	5<sup>^</sup>[ ]	3<sup>^</sup>[ ]	2<sup>^</sup>[ ]	4<sup>^</sup>[ ]	5<sup>^</sup>[ ]	6<sup>^</sup>[ ]

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7^[h]]

[[6 columned table]]

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No. Remarks |

|10,^[0]10,^[0].^[0].^[0]7.1,^[0]7.0,^[0]7.2,6.9||..|

|..^[0].^[0]5,^[0]...S^[0]6.1,6.6,6.4,[[~~strikethrough~~]]6.8^[6.5]]/~~strikethrough~~5.9|5.7,5.9,5.8 6.0^[5.7]] ||| |...799^[a]]

|.^[0].^[0]?^[0].^[0].^[0]7.1,^[0]6.9,^[0]6.9,^[0]6.8,7.0,6.8||...|

|10,^[0]10^[?^9,^[0]]|.^[0].^[0]7.1,^[0]6.9,^[0]6.6,6.2||789^[0].|

|5,^[0].^[0]2,^[0]2,^[0]2,^[0]?^[0].^[0]2,^[0]2^[0].^[0].|.....^[0].^[0].^[0]S^[0]S^[0]S^[0].|6.5,^[0]6.6^[0]5.3,^[0]5.8,^[0]5.8,^[0]5.4^[0]5.8,^[0]5.5,^[0]5.3,^[0]5.2,^[0]6.7 6.7 5.8,6.6,6.8,6.3 7.1,6.1,6.3,6.6.||.....|

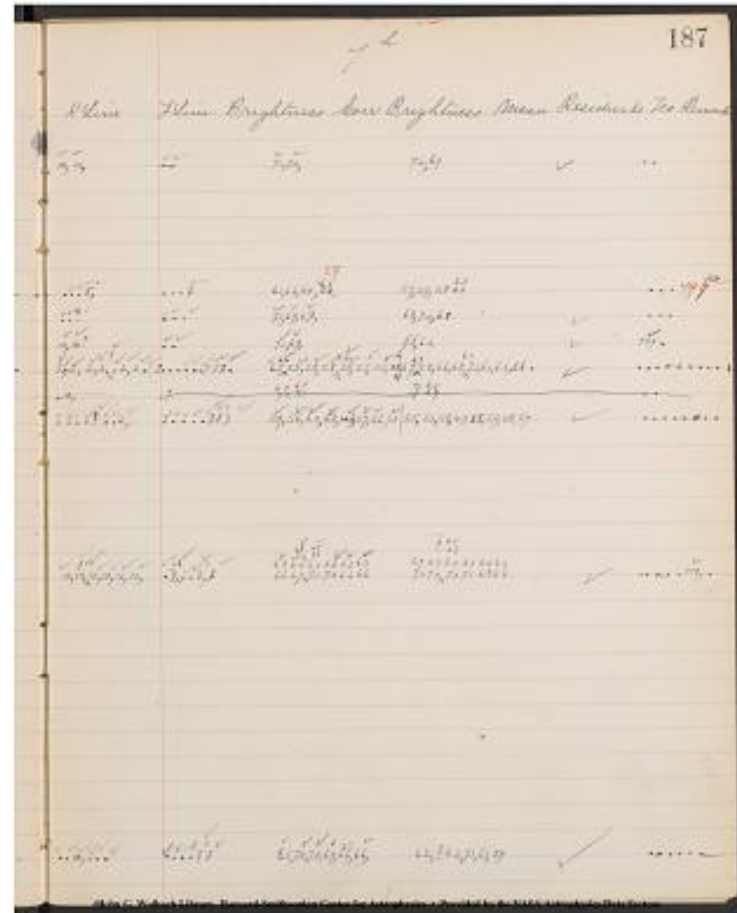
|[[~~strikethrough~~]].10,|.S|7.2^[6.9]]7.1^[6.7]]?6.9^[6.5]] ||| |..[[~~strikethrough~~]]|

|.^[0].^[0].^[0].^[0]?^[0].^[0].^[0]2,^[0].^[0].^[0].^[0].^[0]S^[0]S^[?^^[0]]S^[0]5.9,^[0]5.6,^[0]6.0,^[0]4.8,^[0]4.6,^[0]5.7,^[0]5.6,^[0]5.3^[0]5.5,5.1,5.8,4.7,5.5,5.9,5.8,5.7||.....|

|10,^[0]10,^[0].^[0]10^[0]10,^[0]10,^[0]10,^[0]10,^[0].^[0]S^[0].^[0]S^[0].^[0].^[0]S,^[?^^[0]]S^[0]6.6^[6.3^[0]]6.7^[6.4^[0]]7.2,^[6.9^[0]]7.1^[6.7^[0]]7.1^[6.5]]7.0^[6.6^[0]]6.6^[6.2^[0]]6.6^[6.3^[0]]7.0^[6.7]]7.0^[6.7]]?6.9^[6.5]]7.0^[6.4]]7.1^[6.7]]6.8^[6.4]]6.6^[6.3]]|.....778,^[0].|

|.^[0].^[0]10,^[0].^[0].^[0].^[0].^[0].^[0].^[0]S^[?^^[0]]S^[0]6.5,^[0]7.0,^[0]7.0,^[0]6.7,^[0]6.6,^[0]6.6,^[0]6.2,?6.2,7.1,6.1,5.9||.....|

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7h

[[10 columned table]]

| --- | RA 1855 | Dec 1855 | RA 1900 | Dec 1900 | No DM | Mag. DM |  
Spectrum | No Plate | No Lines || --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |  
45<sup>h</sup>[[m]] | --- | --- | --- | --- | --- | --- | --- | --- | --- |

46 | --- | --- | --- | --- | --- | --- | --- | --- | --- |

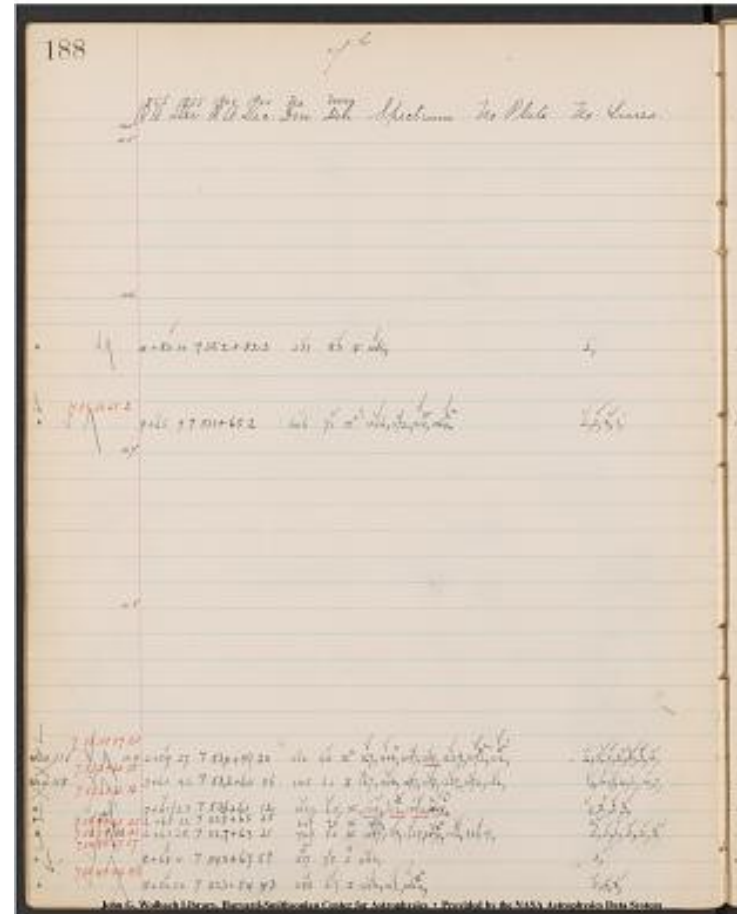
• | 4 +82 10<sup>h</sup>[[m]] | 7 | 55.2 +82 | 3 | 231<sup>h</sup>[[m]] |8.3<sup>h</sup>[[m]] | II | 1065<sup>h</sup>[[m]] | 2<sup>h</sup>[[m]] || • 7 51.1 +65 2 | .9 +65 9<sup>h</sup>[[m]] | 7 | 51.1 +65 | 2 | 606<sup>h</sup>[[m]] | 7.1<sup>h</sup>[[m]] |II<sup>h</sup>[[a?]] | 446<sup>h</sup>[[m]] | 1072<sup>h</sup>[[m]] | 1112<sup>h</sup>[[m]] | 1064<sup>h</sup>[[IIa]] | 2<sup>h</sup>[[m]] | 2<sup>h</sup>[[m]] | 2<sup>h</sup>[[m]] |1<sup>h</sup>[[m]] |

47 | --- | --- | --- | --- | --- | --- | --- | --- | --- |

48 | --- | --- | --- | --- | --- | --- | --- | --- | --- |

• No. 116 7 53.0 +59 20 49 | .2 +59 27<sup>h</sup>[[m]] | 7 | 53.0 +59 | 20 |1130<sup>h</sup>[[m]] | 6.0<sup>h</sup>[[m]] | II<sup>h</sup>[[a]] | 167<sup>h</sup>[[m]] | 446<sup>h</sup>[[m]] | 1097<sup>h</sup>[[m]] |[[underline]]1119[[underline]]<sup>h</sup>[[m]] | 1229<sup>h</sup>[[m]] | 1072<sup>h</sup>[[IIa]] | 1112<sup>h</sup>[[IIa?]] |2<sup>h</sup>[[m]] | 5<sup>h</sup>[[m]] | 3<sup>h</sup>[[m]] | 2<sup>h</sup>[[m]] | 2<sup>h</sup>[[m]] | 3<sup>h</sup>[[m]] | 4<sup>h</sup>[[m]] |

| • No. 118 7 53.2 +60 35 | .3 +60 42 | 7 | 53.2 +60

36 | 1105 | 6.1 | | 167<sup>h</sup>[[m]] | 446<sup>h</sup>[[m]] | 1097<sup>h</sup>[[m]] | 1119<sup>h</sup>[[m]] | 1229<sup>h</sup>[[m]] |1072<sup>h</sup>[[m]] | 1112<sup>h</sup>[[m]] | 4<sup>h</sup>[[m]] | 6<sup>h</sup>[[m]] | 7<sup>h</sup>[[m]] | 4 | 6 | 4<sup>h</sup>[[m]] | 7 || • 7 53.6 +61 16 | .7 +61 23<sup>h</sup>[[m]] | 7 | 53.6 +61 | 12 | 1021<sup>h</sup>[[m]] | 6.5<sup>h</sup>[[m]] |II | [[underline]]1112<sup>h</sup>[[underline]]<sup>h</sup>[[m]] | 1112<sup>h</sup>[[2III]] | 1064<sup>h</sup>[[1]] |1064<sup>h</sup>[[2I?]] | [[underline]] | 2<sup>h</sup>[[m]] | 2<sup>h</sup>[[m]] | 2<sup>h</sup>[[m]] | 3<sup>h</sup>[[m]] || • 7 53.9 +65 25 | .6 +65 32<sup>h</sup>[[m]] | 7 | 53.9 +65 | 25 | 607<sup>h</sup>[[m]] | 7.0<sup>h</sup>[[m]] | III1064<sup>h</sup>[[m]] | 2<sup>h</sup>[[m]] || • 7 53.7 +63 21 | .6 +63 28<sup>h</sup>[[m]] | 7 | 53.7 +63 | 21 | 749 | 6.0 | III1097<sup>h</sup>[[m]] | 1119<sup>h</sup>[[m]] | 1229<sup>h</sup>[[m]] | 1072<sup>h</sup>[[IIa]] | 1112<sup>h</sup>[[m]] | 1064<sup>h</sup>[[m]] | 2<sup>h</sup>[[m]] |3<sup>h</sup>[[m]] | 2<sup>h</sup>[[m]] | 2<sup>h</sup>[[m]] | 2<sup>h</sup>[[m]] | 3<sup>h</sup>[[m]] || • 7 54.3 +67 57 | .8 +68 4<sup>h</sup>[[m]] | 7 | 54.3 +67 | 57 | 517<sup>h</sup>[[m]] | 7.5<sup>h</sup>[[m]] |I<sup>h</sup>[[m]] | 446<sup>h</sup>[[m]] | 3<sup>h</sup>[[m]] || • 7 53.4 +54 43 | .8 +54 50<sup>h</sup>[[m]] | 7 | 53.3 +54 | 43 | 1188<sup>h</sup>[[m]] | 6.7<sup>h</sup>[[m]] | I446<sup>h</sup>[[m]] | 1112<sup>h</sup>[[m]] | 1064<sup>h</sup>[[IIa]] | 5<sup>h</sup>[[m]] | 4<sup>h</sup>[[m]] | 3<sup>h</sup>[[m]] |

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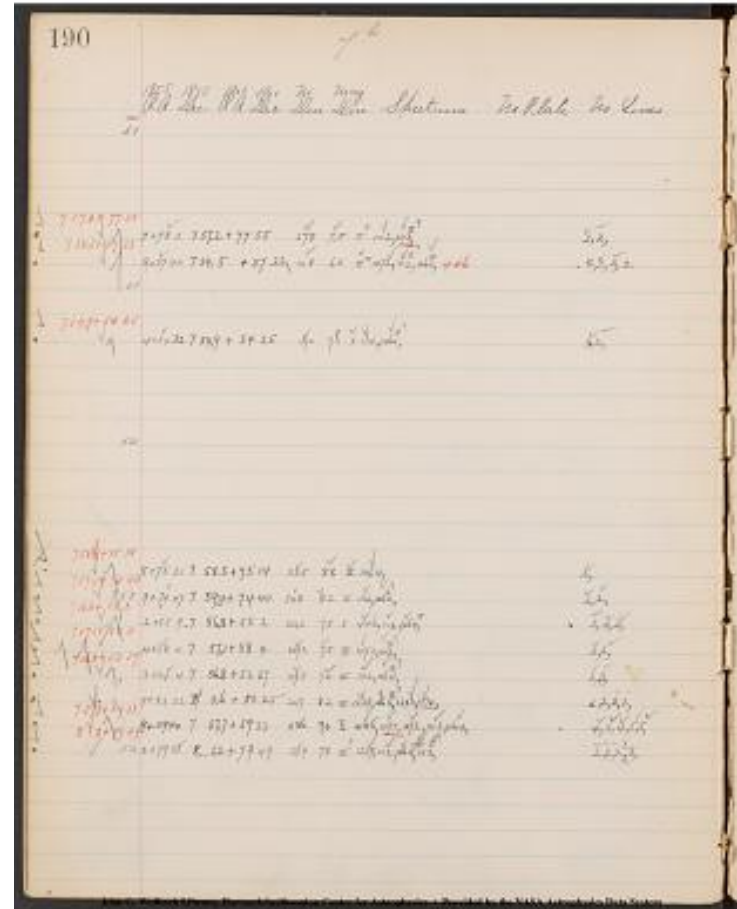


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7<sup>h</sup>[[h]]

[[10 columned table]]

| 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No DM. | Mag. DM. |  
Spectrum. | No. Plate. | No. Lines. |  
---|---|---|---|---|---|---|  
m 50 | | | | | | |  
7 57.2+77 55 . ^ | 7 | 78 2 | 7 57.2 | +77 55 | 278 | 7.5 | I<sup>h</sup>[[?]] |  
1112,II<sup>h</sup>[[?]]1113,1113,1113 | 2,2, |  
7 54.5+57 33 . ^ | 8 | +57 40 | 7 54.5 | +57 33, | 1118 | 6.5 | II<sup>h</sup>[[a]] |  
1072,II<sup>h</sup>[[?]]1112,II1064,446 | . 2,3,3,2 |  
51 | | | | | | |  
75 4.9+54 25 . ^ | 4 | +54 32 | 7 54.9 | +54 25 | 1190 | 7.3 | I |  
1112,II<sup>h</sup>[[?]]1064, | 3,2, |  
52 | | | | | | |  
X 7 58.~~[[?]]~~4~~[[?]]~~5+75 14 . ^ | 8 | +75 21 | 7  
58.5 | +75 14 | 325 | 8.8 | II | 1064, | 2, |  
7 59.4+74 40 . ^ 53 | 9 | +74 47 | 7 59.4 | +74 40 | 348 | 8.2 | II |  
1112,II<sup>h</sup>[[?]]1064, | 2,2, |  
7 56.8+55 2 . ^ | 2 | +55 9. | 7 56.8 | +55 2 | 1242 | 7.5 | I |  
446,1112,II1064, | . 3,4,2, |  
7 56.1+58 4 . ^ ^ | 4 | +58 11 | 7 57.1 | +58 4 | 1093 | 7.5 | III |  
1072,II<sup>h</sup>[[?]]1112, | 2,2, |  
7 56.8+53 57 . ^ | 3 | +54 4 | 7 56.8 | +53 57 | 1195 | 7.0 | II |  
1112,II<sup>h</sup>[[?]]1064, | 3,3, |  
7+83 32 | 8 3.6 | +83 25 | 207 | 8.2 | II |  
1229,II<sup>h</sup>[[?]]1065,1233,1074,1074 | 2,2,2,2, |  
7 57.7+59 33 . ^ | 9 | +59 40 | 7 57.7 | +59 33 | 1136 | 7.0 | I |  
446,1097,1072,1112,1064, | . 4,4,4,5,5, |  
| | | | | | |  
8 1.8+79 49 . 54 | 0 | +79 56 | 8 1.2 | +79 49 | 269 | 7.8 | II<sup>h</sup>[[?]] |  
1229,1112,1064,1113, | 2,2,2,2,3, |  
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7h

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No.  
Rem |

10,10, .. 7.0,6.9 7.5,7.4, ..  
10,10,10,10 ss. 7.0,6.7,6.7 6.8 6.4,6.2,6.0,6.2 767..99  
.10, .. 7.0,7.0, 6.4,6.2

10, . 7.2 7.3  
10,10, .. 9.2,7.0, 9.5,7.1, ..  
.10,10, ... 6.9,7.0,6.9, 6.5,6.4,6.1. ...  
10,10, .. 7.0,7.3,7.1 6.4,6.7,6.6  
10,10, ss 6.9,6.9 6.3,6.1, ..  
10,10,10,10 .... 7.0,6.5,7.0,6.8, 7.9,7.8,8.1,7.9 ....  
10,10,10,5.8, ..... 6.7,6.8,6.8,6.6,6.5 6.4,6.2,6.1,5.8  
10,10,10,. .... 7.0,7.0,6.8,6.7, 6.8 7.4,7.77.37.5,7.5

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K Line	F Line	Brightness	Corr. Brightness	Mean. Residuals	No. Rem.
10,10, ..	7.0,6.9	7.5,7.4, ..			
10,10,10,10 ss.	7.0,6.7,6.7	6.8	6.4,6.2,6.0,6.2	767..99	
.10, ..	7.0,7.0,	6.4,6.2			

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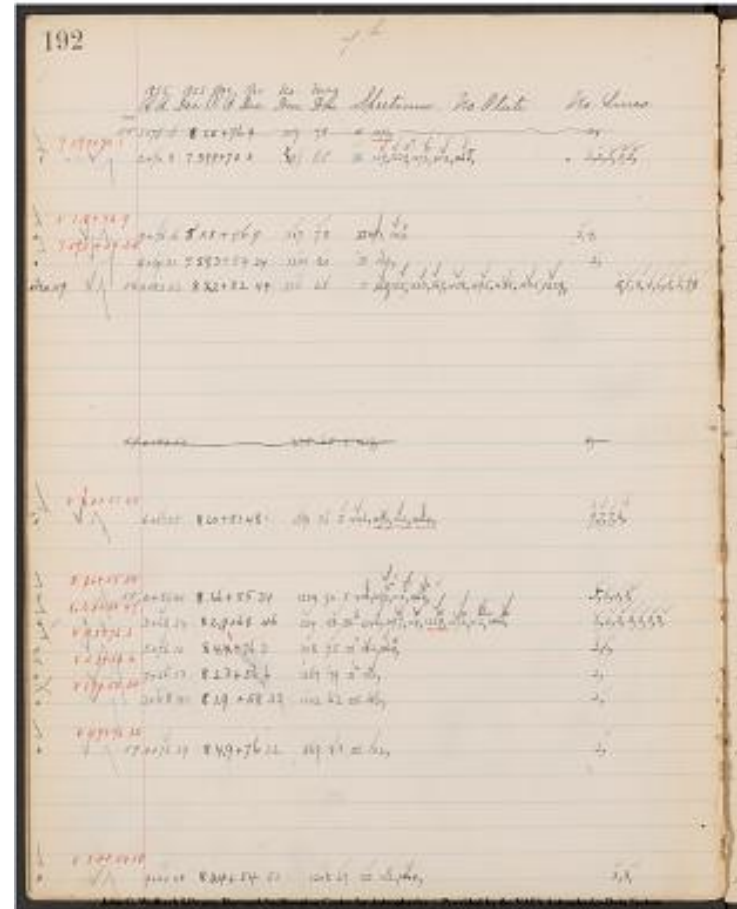


7<sup>h</sup>[[h]]

[[10 columned table]]

| 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No. DM. | Mag. DM.  
Spectrum. | No. Plate. | No. Lines. |

--- | --- | --- | --- | --- | --- | --- | --- | --- | --- |  
m | ~~55~~ | .1 | +76 16 | 8 1.0 | +76 9 | 307 | 7.8 | II |  
~~1071~~	~~1071~~	~~1071~~	~~1071~~	~~1071~~	~~1071~~	~~1071~~	~~1071~~	~~1071~~	~~1071~~
~~2~~	~~2~~	~~2~~	~~2~~	~~2~~	~~2~~	~~2~~	~~2~~	~~2~~	~~2~~
7 59.9+70 1 . . ^	.2	+70 8	7 59.9	+70 0					
~~497~~	~~497~~	~~497~~	~~497~~	~~497~~	~~497~~	~~497~~	~~497~~	~~497~~	~~497~~
1119, II<sup>^</sup>[[?]] 1229, II 1072, 1112, II 1064	. 2, 2, 2, 3, 2,								
8 1.8+76 9 . . ^	.9	+76 16	8 1.8	+76 9	307	7.8	II 1071, I 1112		
2, 4,									
7 59.3+54 24 . . ^	.8	+54 31	7 59.3	+54 24	1200	8.0	II	1112,	
2,									
.No. 119 ^	56.0 +82 52	8 5.2	+82 44	235	6.5	I			
165, 185, 353, 167, 458, 495, 435, 1035, 1229,	5, 5, 8, 4, 6, 5, 5, 7, 8								
~~57~~	.0	+82 52			335	6.5	I	1229,	
~~8~~	~~8~~	~~8~~	~~8~~	~~8~~	~~8~~	~~8~~	~~8~~	~~8~~	~~8~~
X 8	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~
+51 48 .	1391	5.1	I						
446,	~~1072~~	~~1072~~	~~1072~~	~~1072~~	~~1072~~	~~1072~~	~~1072~~	~~1072~~	~~1072~~
~~1064~~	~~1064~~	~~1064~~	~~1064~~	~~1064~~	~~1064~~	~~1064~~	~~1064~~	~~1064~~	
8 1.6+55 34 . 58	.0	+55 41	8 1.6	+55 34	1254	7.0	I		
446, II<sup>^</sup>[[a?]] 1072, I<sup>^</sup>[[?]] 1112, II<sup>^</sup>[[a]] 1064,	.5, 2, 4, 3,								
8 2.8 +68 47 . . ^	.3	+68 54	8 2.9	+68 46	524	4.8	II<sup>^</sup>[[b]]		
446, III 1097, III 1119, III	~~1229~~	~~1229~~	~~1229~~	~~1229~~	~~1229~~	~~1229~~	~~1229~~	~~1229~~	~~1229~~
1064,	2, 2, 3, 3, 3, 3,								
X 8 4.3+76 3	.5	76 10	8 4.	~~4~~	~~4~~	~~4~~	~~4~~	~~4~~	
3	308	7.5	II<sup>^</sup>[[?]]	1112, II 1064,	2, 2,				
8 2.3+56 6 . . ^	.7	+56 13	8 2.3	+56 6	1269 7.9	II<sup>^</sup>[[a]]	1112,		
2,									
X 8 1.9+58 34 . . ^	.2	+58 41	8 1.9	+58 33	1102	6.2	III	1112,	
2,									
8 4.9+76 32 . . ^ 59	.0	+76 39	8 4.9	+76 32	309	8.3	III	1112,	
2,									
8 34+54 50 . . ^	.9	+54 58	8 3.4	+54 50	1208	6.4	III		
1112, 1064, | 3, 3 |



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7<sup>h</sup>

[[6 columned table]]

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No.  
Rem |

[[~~10~~], | 6.9 | 7.4 | || | ~~1~~ |]

| 10, ^10, ^10, ^10, ^10, ^10, ... ^10 S ^10, ^10 7.2 ^10 6.9 ^10 6.9, ^10 6.9, ^10 6.7 ^10 6.6 ^10 6.7 ^10 6.8 ^10 6.5 6.6 6.8 6.7 ^10 6.5 |]

| 10, ^10, | 6.9, ^10 7.2 ^10 7.4, 7.6 |]

| 10, ^10, | 7.1 ^10 6.5 |]

| ^10, ^10 1 ^10, ^10, ^10, ^10, ^10 2 ^10, ^10, ^10, ^10, ^10 S ^10 S ^10 6.3, ^10 6.3, ^10 5.3, ^10 6.5, ^10 5.7, ^10 5.9, ^10 5.4, ^10 5.3 ^10 6.0 ^10 6.3 6.2 5.6 6.6 6.3 6.9 6.1 6.7 6.1 |]

[[~~2~~]] S? | 5.3 | 6.1 | || |]

| 1 ^10, ^10, ^10, ^10, ^10 S ^10 S ^10 5.7, ^10 5.9, ^10 5.5, ^10 5.9, ^10 5.2, 5.1, 4.8, 5.0 |]

| 10, ^10 10, ^10, ^10 10, ^10, ^10 S ^10 6.7, ^10 6.9, ^10 6.7, ^10 6.8 ^10 6.3, 6.2, 6.1, 6.0 | 765, ^10 799 ^10 |]

| 10, ^10 10, ^10 10, ^10 10, ^10 10, ^10 10, ^10 S ^10 S ^10 S ^10 S ^10 S ^10 6.3 ^10 6.0 ^10 6.8 ^10 6.6 ^10 6.5 ^10 6.5 ^10 6.1 ^10 6.7 ^10 6.4 ^10 6.5 ^10 6.1 ^10 6.2 ^10 6.4 ^10 6.1 ^10 6.3 ^10 6.0 ^10 6.2 ^10 5.9 | 101 ^10, ... 788 ^10 |]

| 10, ^10 10, ^10, ^10 7.1, ^10 7.0, ^10 7.5, 7.2 |]

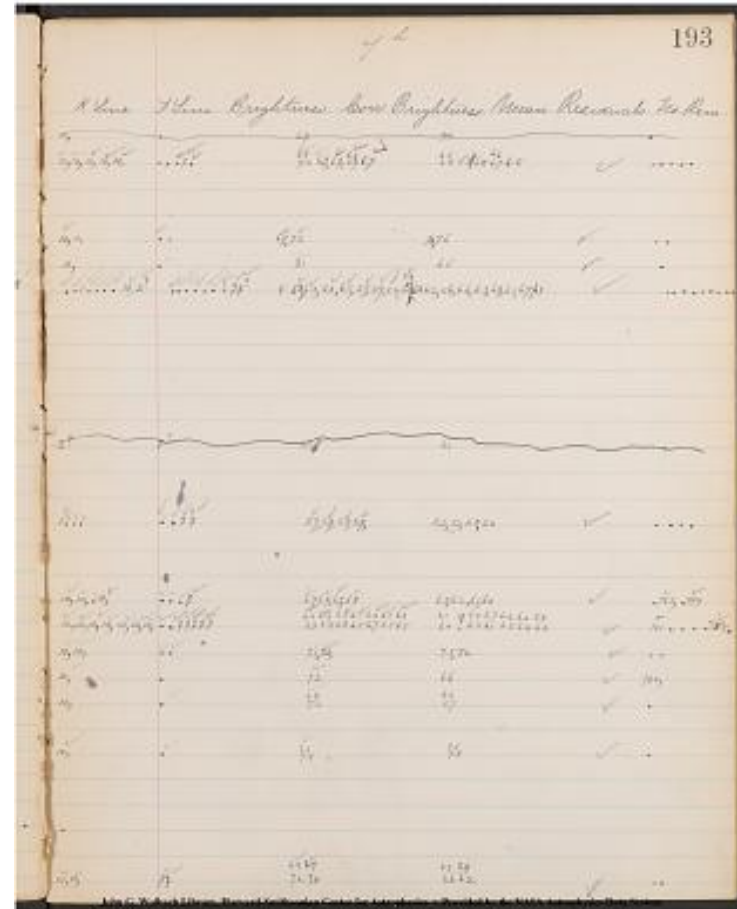
| 10, ^10, | 7.2 ^10 6.6 | 783, |]

| 10, ^10, | 7.2 ^10 6.8 ^10 6.7 ^10 6.3 |]

| 10, ^10, | 7.4 ^10 7.1 ^10 7.8 ^10 7.5 |]

| 10, ^10 10, ^10 S ^10 S ^10 7.2 ^10 6.9 ^10 7.0 ^10 6.7 ^10 6.6 ^10 6.3 ^10 6.2 ^10 5.9 |]

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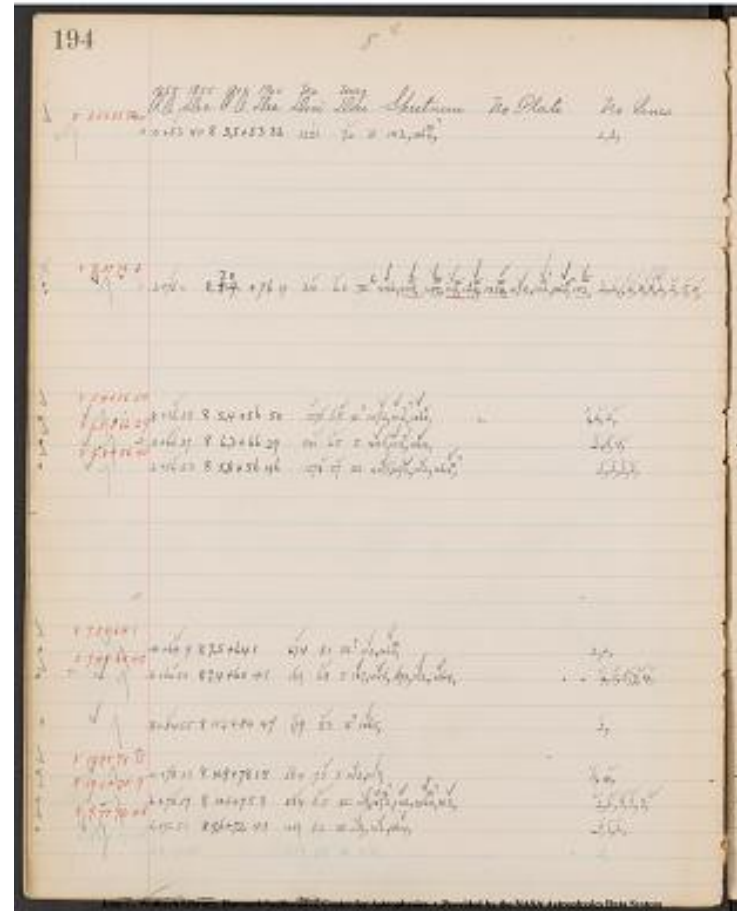
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8<sup>h</sup>[[h]]

[[10 columned table]]

| 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No DM. | Mag. DM. |  
Spectrum. | No. Plate | No. Lines |

--- | --- | --- | --- | --- | --- | --- |  
| 8 3.5+53 32 m ^ 0 | .0 | +53 40 | 8 3.5 | +53 32 | 1221 | 7.0 | II |  
| 1112, III<sup>h</sup>[[?]] 1064, | 2, 2, |  
| X 8 7.0+76 3 : ^ . 1 | . 2 | +76 11 | 8 |  
| ~~5.9~~ 7.0 | +76 4 | 310 | 6.0 | III<sup>h</sup>[[b]] |  
| 446, III<sup>h</sup>[[?]] 458, III<sup>h</sup>[[?]] 11097, III<sup>h</sup>[[?]] 1119, III<sup>h</sup>[[?]]  
| 2, III<sup>h</sup>[[?]] 1119, III<sup>h</sup>[[?]] 1229, III<sup>h</sup>[[?]] 10  
| 72, III<sup>h</sup>[[?]] 1112, II<sup>h</sup>[[a]] 1064, III<sup>h</sup>[[?]] 1113, III<sup>h</sup>[[?]] |  
| 2, 2, 1, 2, 3, 3, 2, 2, 5, 3, |  
| 8 5.4+56 50 . ^ . 8 | +56 58 | 8 5.4 | +56 50 | 1276 | 6.8 | II<sup>h</sup>[[?]] |  
| 1072, I<sup>h</sup>[[?]] 1112, II<sup>h</sup> 1064, | 1, 2, 2, |  
| 8 6.3+66 29 . ^ 2 | .0 | +66 37 | 8 6.3 | +66 29 | 541 | 6.5 | I | 446,  
I<sup>h</sup>[[?]] 1112, 1064,	2, 3, 4,								
8 5.8+56 45 . ^ . 2	+56 53	8 5.8	+56 46	1278	5.7	III			
446, 1072, 1112, II<sup>h</sup>[[?]] 1064,	2, 2, 2, 2,								
3									
8 7.5+64 1 .	. 4	+64 9	8 7.5	+64 1	674	8.1	III<sup>h</sup>[[?]]		
1112, III 1064,	2, 2,								
8 7.4+60 42 . : ^ . 6	+60 50	8 7.4	+60 41	1119	6.8	I			
167, 446, 1072, 1112, 1064	. . 4, 5, 5, 7, 4,								
. ^	. 8	+84 55	8 15.5	+84 47	179	8.3	II<sup>h</sup>[[?]]	1065,	2,
4									
8 10.9+78 15 . ^	. 4	+78 23	8 10.9	+78 15	284	7.5	I		
1112, 1113,	3, 4,								
8 10.1+75 9 . ^	. 6	+75 17	8 10.1	+75 9	334	. 6.5	III		
1119, III<sup>h</sup>[[?]] 1072, 1112, III<sup>h</sup>[[?]] 1064, 1113,	2, 2, 3, 3, 3,								
8 9.7+72 43 . ^ . 6	+72 51	8 9.6	+72 43	409	6.2	III			
1119, 1112, 1064,	3, 1, 2,								
8 8.1+57 34	. 5	+57 321			1128	7.8	III	1112,	2,



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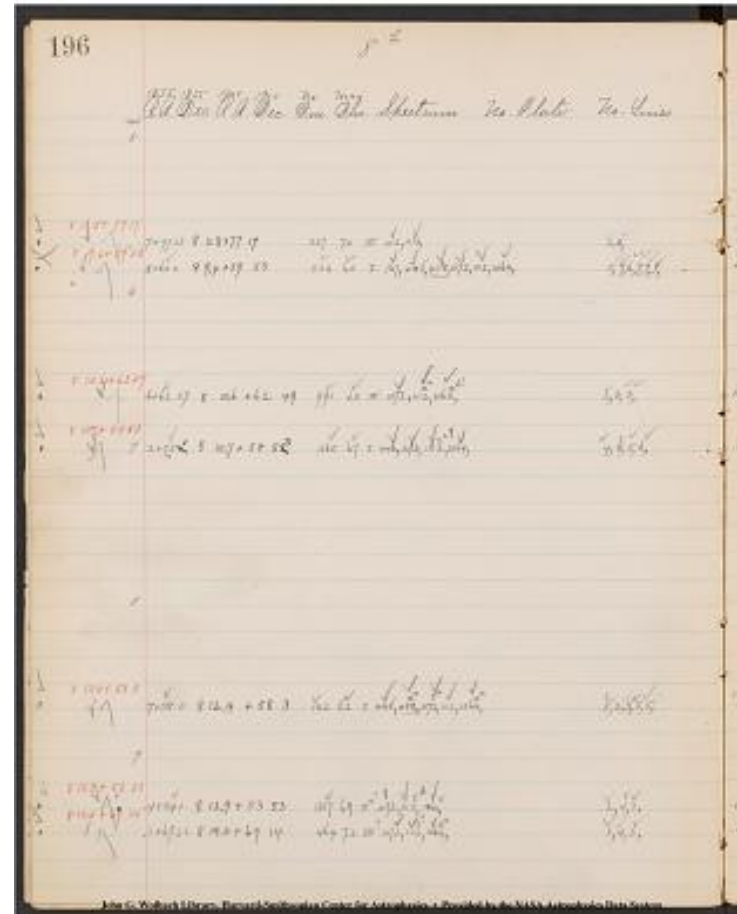


196

8<sup>h</sup>[[h]]

[[10 columned table]]

	1855 R.A.	1855 Dec.	1900 R.A.	1900 Dec.	No DM.	Mag.	DM.	Spectrum.	No. Plate.	No. Lines.					
m <sup>h</sup> [[5]]															
8 11.8+77 17 .	^		.7		+77 25		8 11.8		+77 17		327		7.0		III
1112,1113,		2,3,													
X 8 9.6+59 52 .	^		.8		+60 0		8 9.4		+59 53		1124		6.0		I
167,446,[[u]]458[[/u]],							1072,1112,1064,								
.6															
8 10.6+62 49 .	^		.6		+62 57		8 10.6		+62 49		991		6.0		III
1072,II <sup>h</sup> [[a]]1112,II <sup>h</sup> [[b?]]1064,															
8 10.7+54 53 .	^		.2		+55		[[s]]0[[/s]]		10.7						
+54 5[[s]]2[[/s]]3															
446,1012,II <sup>h</sup> [[a]]1112,1064,															
8															
8 12.4+58 3 .	^		.7		+58 11		8 12.4		+58 3		1112		6.2		I
446,II <sup>h</sup> [[a]]458,[[u]]458,[[/u]],II <sup>h</sup> [[a]]1072,1112,II <sup>h</sup> [[a]]1064,															
6,2,3,5,5															
9															
7 12.9+53 53 .	^		.4		+54 1		8 12.9		+53 53		1217		6.9		II <sup>h</sup> [[a?]]
1072,II <sup>h</sup> [[b]]1112,1064,															
8 14.0+69 14 .	^		.5		+69 22		8 14.0		+69 14		464		7.2		III <sup>h</sup> [[?]]
1072,II <sup>h</sup> [[?]]1112,II <sup>h</sup> [[a]]1064,															

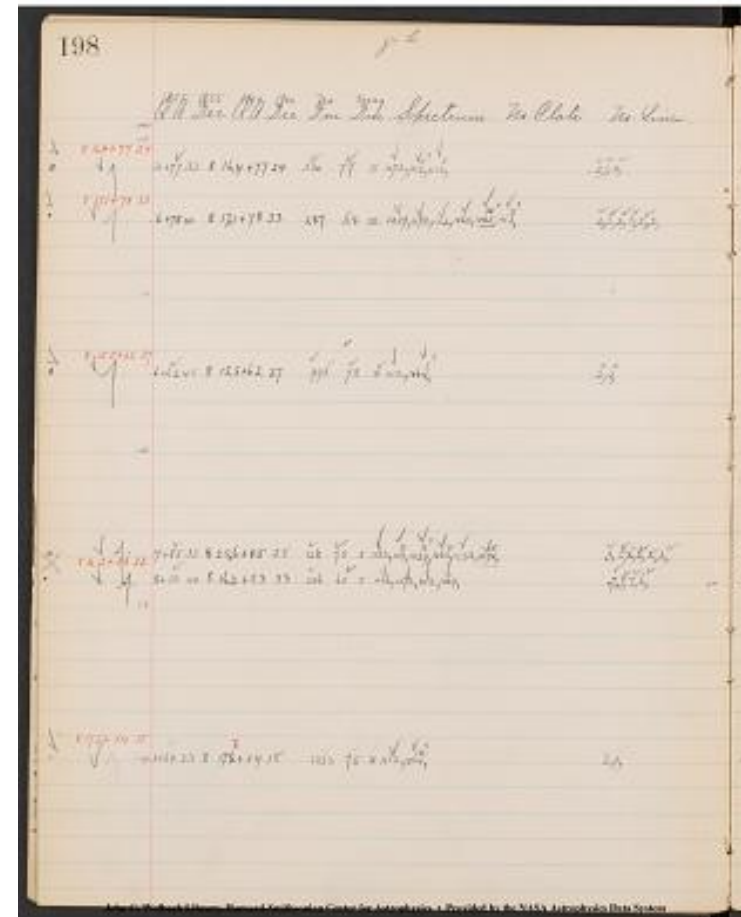


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8<sup>h</sup>[[h]]

[[10 columned table]]  
 | 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec. | No. DM. | Mag. DM.  
 Spectrum. | No. Plate. | No. Lines. |  
 --- | --- | --- | --- | --- | --- | --- |  
 10<sup>h</sup>[[m]] | | | | | | |  
 8 16.4 +77 24 . ^ | .3 | +77 32 | 8 16.4 | +77 24 | 330 | 7.7 | II | 1072,  
 1112<sup>h</sup>[[I ?]] , | 1113<sup>h</sup>[[I]] , | .2, 1, 4, |  
 8 17.1 +78 33 . ^ | .6 | +78 41 | 8 17.1 | +78 33 | 287 | 6.8 | III | 1229,  
 1072, 1112, 1064, [[underlined]] 1065<sup>h</sup>[[III ?]] , [[/underlined]] 1113<sup>h</sup>[[II  
 ?]] , | 2, 2, 2, 3, 2, 2, |  
 11 | | | | | | |  
 8 15.5 +62 37 . ^ | .6 | +62 45 | 8 15.5 | +62 37 | 996 | 7.8 | II | 1112,  
 1064<sup>h</sup>[[I ?]] , | 2, 4, |  
 12 | | | | | | |  
 . ^ | .7 | +85 33 | 8 25.6 | +85 25 | 128 | 7.5 | I | 353, 1119<sup>h</sup>[[III]] ,  
 1229<sup>h</sup>[[II ?]] , 1065<sup>h</sup>[[III]] , 1233, [[underlined]] 1074<sup>h</sup>[[III]] , [[/underlined]] |  
 3, 2, [[strikethrough]] 2, [[/strikethrough]] 2, 2, |  
 X 8 16.2 +53 32 . ^ | .8 | +53 40 | 8 16.2 | +53 33 | 1246 | 6.0 | I | 446,  
 1072, 1112, 1064, | .7, 7, 7, 6, |  
 13 | | | | | | |  
 8 17.5 +54 15 . ^ | 14 | .1 | +54 23 | 8 17. [[strikethrough]] 6  
 [[/strikethrough]] 5 | +54 15 | 1223 | 7.5 | II | 1112, 1064<sup>h</sup>[[II ?]] , | 2, 3, |



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[[6 columned table]]

[6 columned table]
K Line   F Line   Brightness   Corr. Brightness   Mean. Residuals   No.
Remarks

[illegible]

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Extracted Dec-02-2022 11:16:48

8<sup>h</sup>[[h]]

[[10 columned table]]

| RA 1855|Dec 1855|RA 1900|Dec 1900|No DM|Mag.

DM|Spectrum|No Plate|No Lines|

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

| 15<sup>h</sup>[[m]] | | | | | | | | | || • 8 20.3 +67 38 • 16 .0|+67 46|8 20.4|+67 38|545|6.0|III|1072, 1112,  
1064<sup>h</sup>[[III]],|3, 3, 2,|| • 8 21.1 +68 52 • 16|+69 0|8 21.1|~~0~~|~~1~~+68  
52|470|6.7|II|446, 458, 1112, 1064, 1072 | |4, 4, 5, 6, 4 • • •|

| 17 | | | | | | | | | |

| • No. 8 21.2 +54 11 | 8|+54 20|8

21.1|~~3~~|~~3~~|~~2~~|~~2~~|+5  
4|~~45~~|~~11~~|1228|[[checkmark]]7.3|II|1112,  
1064, |2, 3,|

| No. 127 • 8 22.0 +61 2 | 18 .2|+61 11|8 22.0|+61 3 |1054|3.3|

| 167, |446 446<sup>h</sup>[[bc]]|458<sup>h</sup>[[bc]],  
|1072, 1072 1112<sup>h</sup>[[1 bc]], 1112<sup>h</sup>[[2 bc]], 1064|2, 2, 2, 3, 3, 5, 3,|| • 8 23.0 +69 40 | 5|+69 49 | 8 23.0|+69 39 |472|6.5|III|1112, 1064, | • 2,  
2,|| • 8 24.4 +77 21 | 4|+77 30 | 8 24.4|+77 21 |337|7.2|III|1229, 1072<sup>h</sup>[[III]],  
1112<sup>h</sup>[[III]], 1113<sup>h</sup>[[III]], | • 2 •, 1 •, 3 •, 3 •,|| • 8 23.7 +73 47 | 6|+73 56|8 23.7|+73 47 |420|7.3|II|446, 1112<sup>h</sup>[[III]],|4,  
2,|

| 19 | | | | | | | | | |

| • 8 23.7 +67 38 | 4|+67 47 | 8 23.7|+67 38|549|7.8|III| 1112, |2,|

| • 8 23.0+54 27 | 6|+54 36 | 8 23.1|~~0~~|~~1~~|~~1~~446, 1072, 1112,  
1064, |5, 4, 5, 5,|| • No. 123 | 7|+82 44 | 8 28.4|+82 36 | 253 | 7.0 |II|185<sup>h</sup>[[d]], 353, 458,  
495, 435, 1119, |4, 4, 6, 6, 5, 6, 7,|| • No. 124 8 25.2 +75 4 | 8|+75 13 | 8 25.2|+75 4 |342|6.4|II|446, 458,  
441, 1097<sup>h</sup>[[I?]], |1119, 1229<sup>h</sup>[[II?]]|1072, |6,

4, 4, 3, 5, 5, 7|

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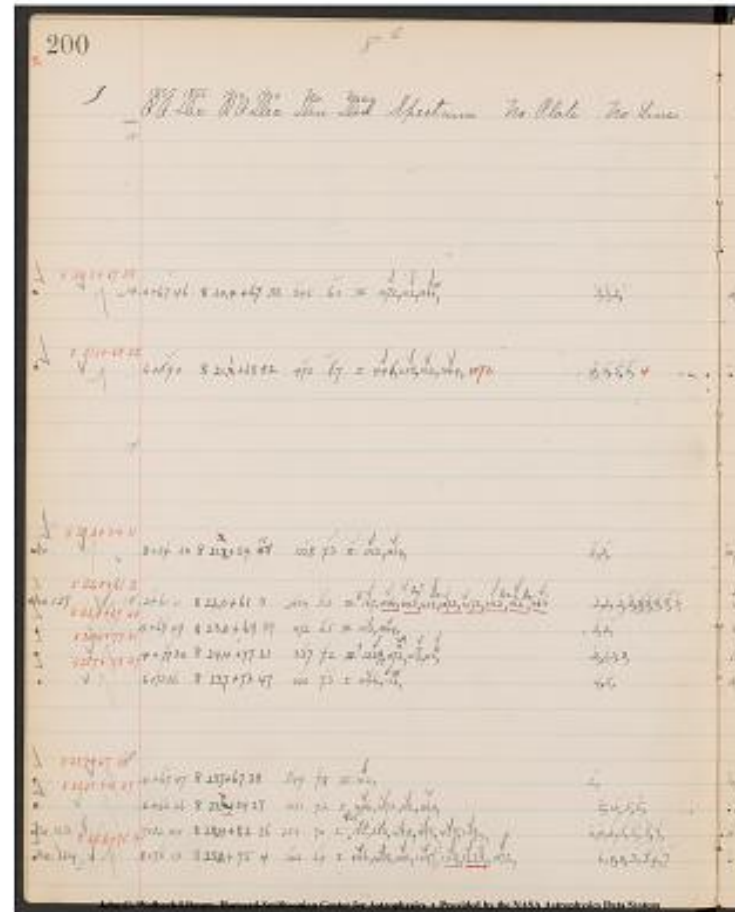
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8<sup>h</sup>[[h]]

[[6 columned table]]

K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No.  
Remarks |

K Line	F Line	Brightness	Corr. Brightness	Mean. Residuals	No.	Remarks
6.6 <sup>h</sup>	6.3 <sup>h</sup>	6.6 <sup>h</sup>	6.4	6.2	6.3	
10 <sup>h</sup>	10 <sup>h</sup>	10 <sup>h</sup>	5 <sup>h</sup>	5 <sup>h</sup>	5 <sup>h</sup>	6.9 6.4 6.8   6.7 6.3 6.5     ...
6.7 <sup>h</sup>	7.0 <sup>h</sup>	6.6	6.5	6.6	6.8	6.4 6.56 2 5.8     ...
10 <sup>h</sup>	10 <sup>h</sup>	10 <sup>h</sup>	7.0 <sup>h</sup>	6.9 <sup>h</sup>	6.4 <sup>h</sup>	6.1 <sup>h</sup>
25 <sup>h</sup>	5.7 <sup>h</sup>	4.9 <sup>h</sup>	5.3 <sup>h</sup>	5.4 <sup>h</sup>	4.6 <sup>h</sup>	4.3 4.7 4.4 4.9 4.2
773 <sup>h</sup>	793 <sup>h</sup>	794 <sup>h</sup>	12 <sup>h</sup>	20 <sup>h</sup>	12 <sup>h</sup>	12 <sup>h</sup>
12 <sup>h</sup>	20 <sup>h</sup>	12 <sup>h</sup>	12 <sup>h</sup>	12 <sup>h</sup>	15 <sup>h</sup>	15 <sup>h</sup>
5.0	4.5	5.1	4.7	5.0	4.6	93 94 102, 109 <sup>h</sup> , 759 <sup>h</sup> , 772 <sup>h</sup>
7.0 <sup>h</sup>	6.9 <sup>h</sup>	7.0	6.7	7.4	7.2	7.4 7.0     ..
10 <sup>h</sup>	10 <sup>h</sup>	10 <sup>h</sup>	7.2	7.0 <sup>h</sup>	7.2	7.0 <sup>h</sup>
10 <sup>h</sup>	10 <sup>h</sup>	10 <sup>h</sup>	7.4	7.2	7.1	7.1
10 <sup>h</sup>	10 <sup>h</sup>	10 <sup>h</sup>	7.4	7.3	7.3	7.4
6.9 <sup>h</sup>	6.9 <sup>h</sup>	5.6 <sup>h</sup>	5.9 <sup>h</sup>	6.0 <sup>h</sup>	5.5 <sup>h</sup>	6.4 <sup>h</sup>
686.7	5.8	6.4	6.7	6.1	7.0	6.1
5.9 <sup>h</sup>	6.5 <sup>h</sup>	6.5 <sup>h</sup>	7.0 <sup>h</sup>	6.4 <sup>h</sup>	6.7 <sup>h</sup>	6.2 <sup>h</sup>
6.4	6.3	6.3	6.7	6.3	6.7	6.4

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8<sup>h</sup>[[h]]

[[left margin]]  
8 23.5+55 16m  
.  
^ 20  
[[/left margin]]

[[9 columned table]]  
| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |  
|-----|-----|-----|-----|-----|  
|.0+5.5<sup>h</sup>[[h]] 25 | 8 | 23.5+55 | 16 | 1283<sup>h</sup>[[h]] | 7.5<sup>h</sup>[[h]] | II<sup>h</sup>[[h]] | 1064<sup>h</sup>[[h]] | |  
2<sup>h</sup>[[h]] |

[[left margin]]  
21  
8  
2~~[[strikethrough]]~~3~~[[strikethrough]]~~4~~[[strikethrough]]~~5.7+  
65 29  
.  
^  
8 25.1+53 26  
.  
^

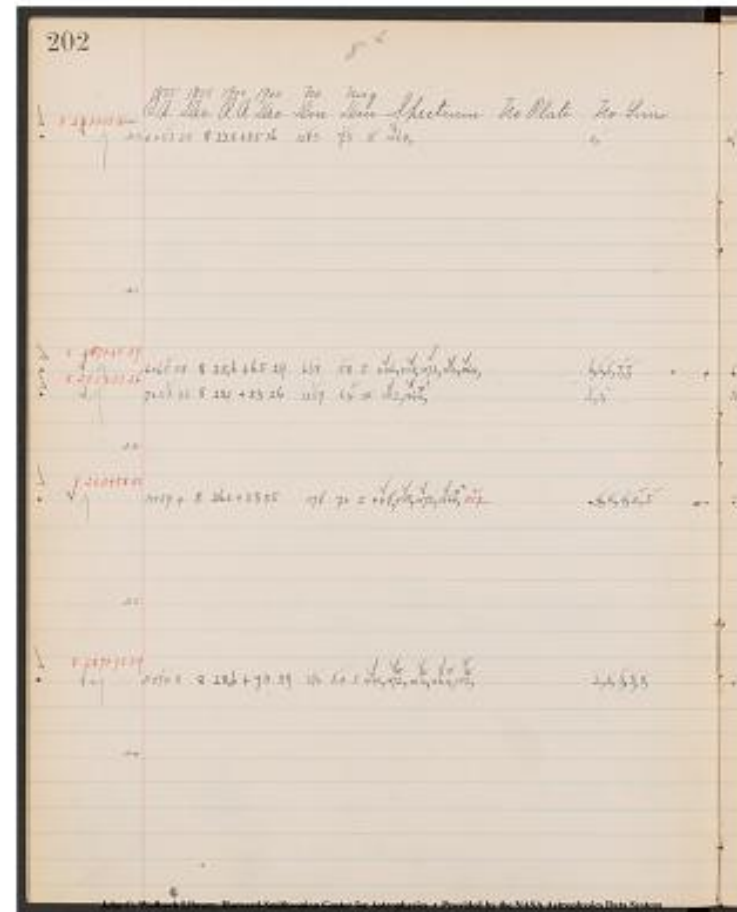
[[9 columned table]]  
| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |  
|-----|-----|-----|-----|-----|  
|.6+65<sup>h</sup>[[h]] 38 | 8 | 25.6+65 | 29 | 638<sup>h</sup>[[h]] | 5.8<sup>h</sup>[[h]] | I |  
446<sup>h</sup>[[h]] 458<sup>h</sup>[[h]] 1072<sup>h</sup>[[h]] 1112<sup>h</sup>[[h]] 1064<sup>h</sup>[[h]] | |  
6<sup>h</sup>[[h]] 6<sup>h</sup>[[h]] 6<sup>h</sup>[[h]] 7<sup>h</sup>[[h]] 7<sup>h</sup>[[h]] | . . |  
|.7+53<sup>h</sup>[[h]] 35 | 8 | 25.1+53 | 26 | 1259<sup>h</sup>[[h]] | 6.4<sup>h</sup>[[h]] | III |  
1112<sup>h</sup>[[h]] 1064<sup>h</sup>[[h]] 11<sup>h</sup>[[h]] | | 2<sup>h</sup>[[h]] 1<sup>h</sup>[[h]] |

[[left margin]]  
22  
8 26.0+58 55  
.  
^  
[[/left margin]]

[[9 columned table]]  
| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |  
|-----|-----|-----|-----|-----|  
|.3+59 4 | 8 | 26.0+58 | 55 | 1176 | 7.0 | I |  
446<sup>h</sup>[[h]] 458<sup>h</sup>[[h]] 1072<sup>h</sup>[[h]] 1064<sup>h</sup>[[h]] 1112<sup>h</sup>[[h]] | |  
4<sup>h</sup>[[h]] 4<sup>h</sup>[[h]] 4<sup>h</sup>[[h]] 2<sup>h</sup>[[h]] 5<sup>h</sup>[[h]] | . . |

[[left margin]]  
23  
8 28.7+73 59  
.  
^  
[[/left margin]]

[[9 columned table]]  
| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |



Spectrum | No Plate | No Lines |  
 |---|---|---|---|---|---|---|  
 |.5+74[ ] 8 | 8 | 28.6+73 | 59 | 370[ ] | 6.4[ ] | |  
 441[ ], 1072[[III]], 1112[[III]], 1064[[II]], 1113[[III]], | |  
 2[ ], 2[ ], 3[ ], 3[ ], 3[ ], |

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 24  
 [[/left margin]]

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$$28 \quad 8 \quad 31.6+53 \quad 16$$
$$2 \times 8 \times 31.9 + 53 \times 4$$
$$835.1 + 783 \cdot 29$$

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8<sup>h</sup>[h]]

[[left margin]]  
8 35.1+73 39m  
.No.130 ^ 30.  
[[/left margin]]

[[9 columned table]]  
| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No. DM | Mag. DM |  
Spectrum | No. Plate | No. Lines |  
|----|----|----|----|----|----|  
| 1+73 48 | 8 | 35.1+73 | 39 | 430<sup>^</sup>[ ] | 7.0<sup>^</sup>[ ] | I | 446<sup>^</sup>[ ], 458<sup>^</sup>[ ],  
441<sup>^</sup>[ ], 1072<sup>^</sup>[ ], 1112<sup>^</sup>[ ], 1064<sup>^</sup>[ ], 1065<sup>^</sup>[ ], 1065<sup>^</sup>[I<sup>^</sup>[ ]],  
[[/underlined]] .. | 4<sup>^</sup>[ ], 4<sup>^</sup>[ ], 3<sup>^</sup>[ ], 5<sup>^</sup>[ ], 6<sup>^</sup>[ ], 3<sup>^</sup>[ ], 4<sup>^</sup>[ ], . |

[[left margin]]  
31.  
8 37.7+78 33

[[/left margin]]

[[9 columned table]]  
| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No. DM | Mag. DM |  
Spectrum | No. Plate | No. Lines |  
|----|----|----|----|----|----|  
| .4+78 42<sup>^</sup>[ ] | 8 | 37.7+78 | 33 | 293<sup>^</sup>[ ] | 6.5<sup>^</sup>[ ] | II<sup>^</sup>[a] | 441<sup>^</sup>[ ],  
[[strikethrough]] 1012<sup>^</sup>[ ], [[/strikethrough]] 1112<sup>^</sup>[III], 1064<sup>^</sup>[III], | .  
2<sup>^</sup>[ ], 4<sup>^</sup>[ ], 2<sup>^</sup>[ ], 2<sup>^</sup>[ ], |

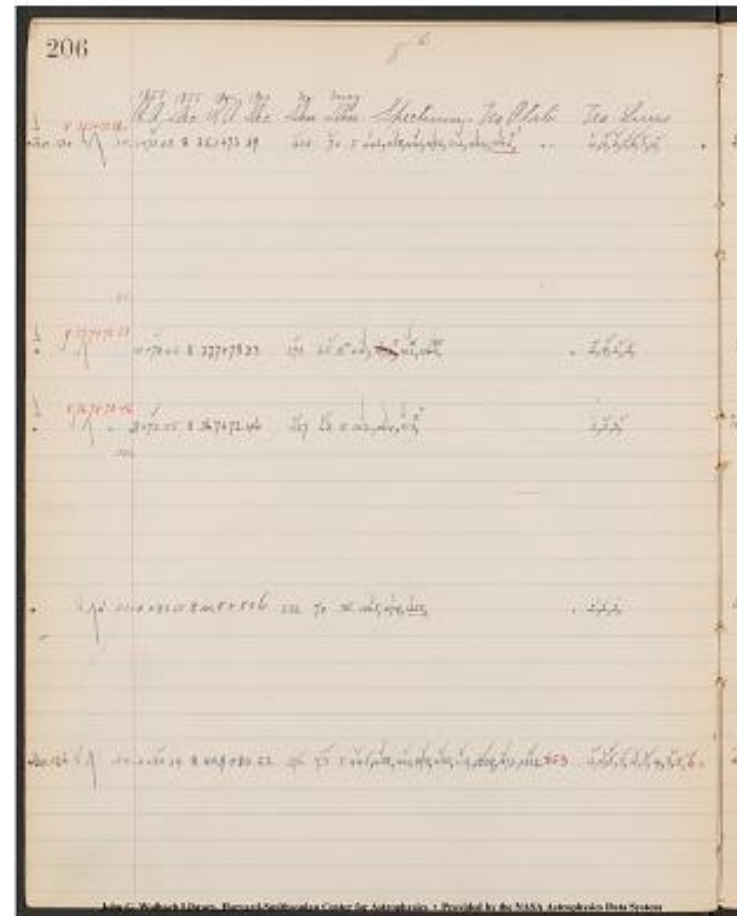
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8 36.7+72 46  
.  
^  
[[/left margin]]

[[9 columned table]]  
| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No. DM | Mag. DM |  
Spectrum | No. Plate | No. Lines |  
|----|----|----|----|----|----|  
| .8+72 55 | 8 | 36.7+72 | 46 | 427<sup>^</sup>[ ] | 6.8<sup>^</sup>[ ] | II | 1112<sup>^</sup>[ ], 1064<sup>^</sup>[ ],  
1113<sup>^</sup>[III<sup>^</sup>[ ]], | 2<sup>^</sup>[ ], 2<sup>^</sup>[ ], 3<sup>^</sup>[ ], |

[[left margin]]  
32.  
^.' 33.  
[[/left margin]]

[[9 columned table]]  
| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No. DM | Mag. DM |  
Spectrum | No. Plate | No. Lines |  
|----|----|----|----|----|----|  
| 0+83 15 | 8 | 41.8+83 | 6 | 232 | 7.0 | III | 1065<sup>^</sup>[ ], 1074<sup>^</sup>[ ],  
[[underlined]] 1255<sup>^</sup>[ ], [[/underlined]] | . 2<sup>^</sup>[ ], 2<sup>^</sup>[ ], 2<sup>^</sup>[ ], |

[[left margin]]



.No.126^ 34.  
[[/left margin]]

[[9 columned table]]  
| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No. DM | Mag. DM |  
Spectrum | No. Plate | No. Lines |  
|----|----|----|----|----|----|  
| 0+80 34 | 8 | 40.9+80 | 22 | 272^[] | 7.3^[] | | | 440^[], 458^[],  
441^[], 495^[], 435^[], 1119^[], 1229^[], 1072^[], 1112^[] 353 |  
4^[], 4^[], 6^[], 5^[], 4^[], 5^[], 4^[], 3^[], 5^[], 6^[]

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8h

| K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | Rem

[[Row 1]]

| ...5.... | ..... | 6.8, 7.0, 7.1, 6.8, 6.6, 6.8, 6.5, | 7.2, 6.7, 6.8, 6.9, 6.8,  
6.8, 6.8, | [checkmark] | .....

[[Row 2]]

| 10, 10, 10, | .... | 7.0, 6.6, 7.3 (7.0), 7.3 (7.0) | 7.1, 7.1, 7.9 (7.6), 7.7  
(7.4) | [checkmark] | 126...

[[Row 3]]

| 10, 10, 10, | ..[Sigma] | 7.0, 6.9, 6.9 | 7.1, 6.8, 7.0 | [checkmark] | ...

[[Row 4]]

| 10, 10, 10, | ... | 7.0 (6.7), 6.8 (6.5), 6.9 (6.5) | 8.2 (7.9), 7.8 (7.5), 7.8  
(7.4) | [checkmark] | ....

[[Row 5]]

| ...10, .5, 10, ...10 | ..... | 6.6, 6.8, 6.8, 6.7, 6.3, 6.7, 6.5, 6.7 (6.4, 63) |  
7.6, 7.1, 7.1, 7.2, 6.7, 7.1, 7.0, 7.4, 7.2, 55 | [checkmark] | .....

207

K Line	F Line	Brightness	Corr. Brightness	Mean Residuals	Rem
...	...	6.8, 7.0, 7.1, 6.8, 6.6, 6.8, 6.5	7.2, 6.7, 6.8, 6.9, 6.8, 6.8	[checkmark]	...
10, 10, 10	...	7.0, 6.6, 7.3 (7.0), 7.3 (7.0)	7.1, 7.1, 7.9 (7.6), 7.7 (7.4)	[checkmark]	126...
10, 10, 10	..[Sigma]	7.0, 6.9, 6.9	7.1, 6.8, 7.0	[checkmark]	...
10, 10, 10	...	7.0 (6.7), 6.8 (6.5), 6.9 (6.5)	8.2 (7.9), 7.8 (7.5), 7.8 (7.4)	[checkmark]	...
...10, .5, 10, ...10	...	6.6, 6.8, 6.8, 6.7, 6.3, 6.7, 6.5, 6.7 (6.4, 63)	7.6, 7.1, 7.1, 7.2, 6.7, 7.1, 7.0, 7.4, 7.2, 55	[checkmark]	...

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8<sup>h</sup>[[h]]

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m

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[[9 columned table]]

| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |

|---|---|---|---|---|---|  
|.2|+81<sup>h</sup>[[h]] 49 | 8 42.8|+81 40 | 273<sup>h</sup>[[h]] | 7.6<sup>h</sup>[[h]] | II<sup>h</sup>[[h]] | 1119<sup>h</sup>[[h]],  
1229<sup>h</sup>[[h]], 1065<sup>h</sup>[[h]], 1223<sup>h</sup>[[h]], [[underlined]] 1074<sup>h</sup>[[h]] [[/underlined]], |  
2<sup>h</sup>[[h]], 2<sup>h</sup>[[h]], 5<sup>h</sup>[[h]], 2<sup>h</sup>[[h]], 2<sup>h</sup>[[h]], |

[[left margin]]

8 59.7|+76 4

.  
^  
.

[[9 columned table]]

| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |

|---|---|---|---|---|---|  
|.6|+67<sup>h</sup>[[h]] 13 | 8 39.8|+67 5 | 560<sup>h</sup>[[h]] | 6.0<sup>h</sup>[[h]] | I | [[underlined]] 446<sup>h</sup>[[h]]  
[[/underlined]], [[underlined]] 458<sup>h</sup>[[h]] [[/underlined]], 441<sup>h</sup>[[h]], 1072<sup>h</sup>[[h]],  
1112<sup>h</sup>[[h]], 1064<sup>h</sup>[[h]], [[underlined]] 1113<sup>h</sup>[[h]], [[/underlined]] 1113<sup>h</sup>[[h]], [[underlined]] 6<sup>h</sup>[[h]],  
5<sup>h</sup>[[h]], 6<sup>h</sup>[[h]], 6<sup>h</sup>[[h]], 6<sup>h</sup>[[h]], 6<sup>h</sup>[[h]], 8<sup>h</sup>[[h]],  
|.8|+83<sup>h</sup>[[h]] 17 | 8 44.5|+83 8 | 223<sup>h</sup>[[h]] | 7.0<sup>h</sup>[[h]] | I | 458<sup>h</sup>[[h]],  
1119<sup>h</sup>[[h]], 1229<sup>h</sup>[[h]], 1229<sup>h</sup>[[h]], 1229<sup>h</sup>[[h]], 1065<sup>h</sup>[[h]], 1065<sup>h</sup>[[h]],  
1223<sup>h</sup>[[h]], 1074<sup>h</sup>[[h]], [[underlined]] 1255<sup>h</sup>[[h]] [[/underlined]],  
[[underlined]] 1162<sup>h</sup>[[h]], [[/underlined]] 3<sup>h</sup>[[h]], 2<sup>h</sup>[[h]], 2<sup>h</sup>[[h]], 2<sup>h</sup>[[h]],  
3<sup>h</sup>[[h]], 3<sup>h</sup>[[h]], 3<sup>h</sup>[[h]], |

[[left margin]]

36

.  
^  
.

[[/left margin]]

[[9 columned table]]

| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |

|---|---|---|---|---|---|  
|.9|+85<sup>h</sup>[[h]] 15 | 8 48.2|+85 5 | 132<sup>h</sup>[[h]] | 8.2<sup>h</sup>[[h]] | II<sup>h</sup>[[h]] | 106<sup>h</sup>[[h]],  
1074<sup>h</sup>[[h]], | 2<sup>h</sup>[[h]], 2<sup>h</sup>[[h]], |

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37

38

39

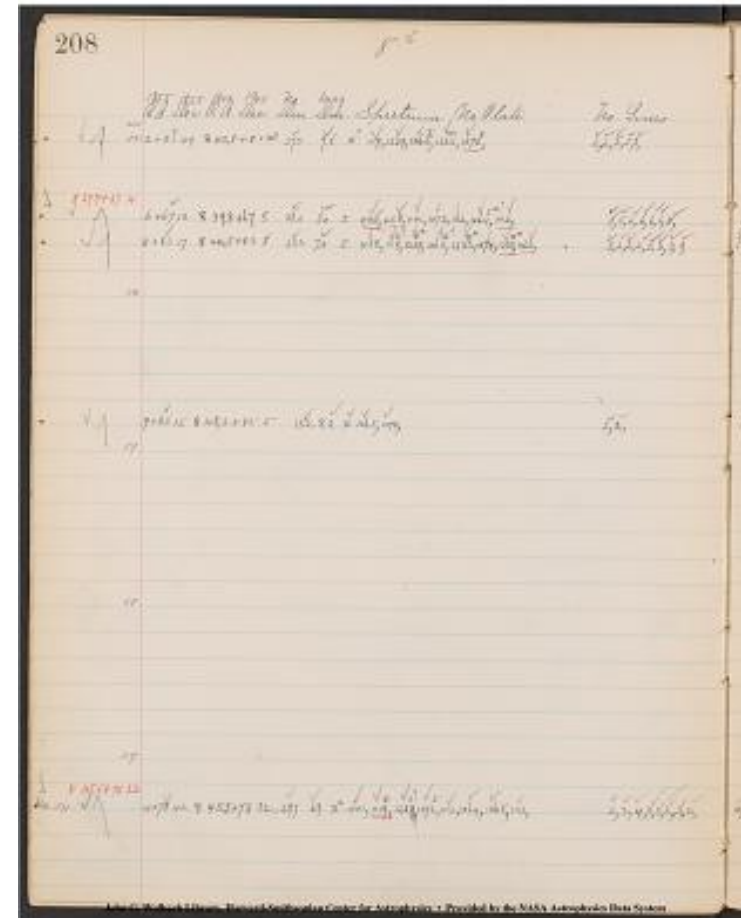
8 45.5|+78 32

No. 131 ^

[[left margin]]

[[9 columned table]]

| 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |



Spectrum | No Plate | No Lines |

|---|---|---|---|---|---|---|  
|.4+78<sup>42</sup> | 8 45.5|+78 32, | 297<sup>6.9</sup> | II<sup>[a]</sup> | 441<sup>1119</sup>,  
1112<sup>1064</sup>, 1065<sup>1113</sup>, | 2<sup>3</sup>, 4<sup>3</sup>, 3<sup>2</sup>,  
3<sup>2</sup>, 2<sup>3</sup>, 3<sup>2</sup>, 2<sup>3</sup>, |

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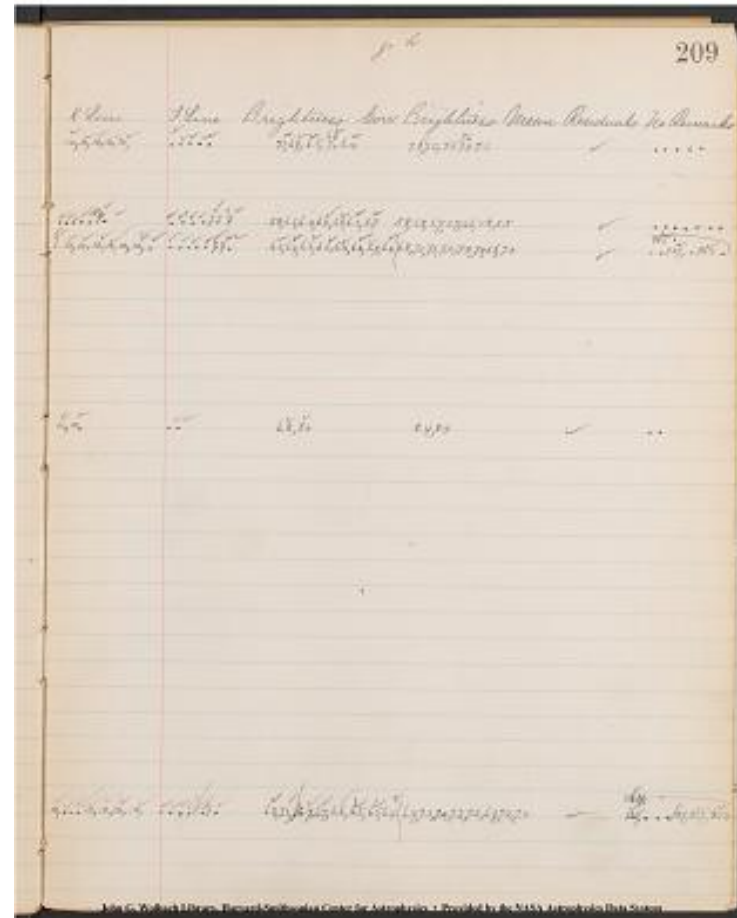
8<sup>h</sup>[[h]]

[[6 columned table]]

| K Line | F Line | Brightness | Corr. Brightness | Mean Residuals | No.  
Remarks |

K Line	F Line	Brightness	Corr. Brightness	Mean Residuals	No.	Remarks
10, 10, 10, 10, 10,	•••••	7.1, 6.9, 6.5, 7.0 <sup>h</sup> [[6.8]]	6.4	7.6, 7.5, 7.5,		
7.8 <sup>h</sup> [[7.6]]	7.2	•••••				
••••• <sup>h</sup> [[ <del>7.6</del> ]]	•••••	••••• S S? S	5.8, 6.5, 6.4,			
6.6, 5.8, 6.2, 5.7	5.8, 5.8, 5.7, 5.7, 5.6, 5.8, 5.5	•••••				
? 10, 10, 10, 10, 10,	•••••	S S •	6.5, 6.4, 6.3, 6.0, 6.4, 6.0, 5.7, 6.4			
6.8, 7.1, 7.1, 7.2, 7.4, 7.0, 6.6, 7.4	••	757, • 903 • 985				
10, 10, 10,	••	6.8, 7.0	8.4, 8.4	••		
10, ••• 10, 10, 10, 10,	•••••	S • S •	6.8 7.1			
[[ <del>7.6</del> ]] • [[ <del>7.6</del> ]]	••	6.7, 6.7, 6.6, 6.5, 6.5, 6.4	6.9, 7.3, 7.0,			
7.2, 7.2, 6.9, 7.2, 7.0	••	125 • • 787, 807, 850				
8[[ <del>7.6</del> ]]	23[[ <del>7.6</del> ]]	34				

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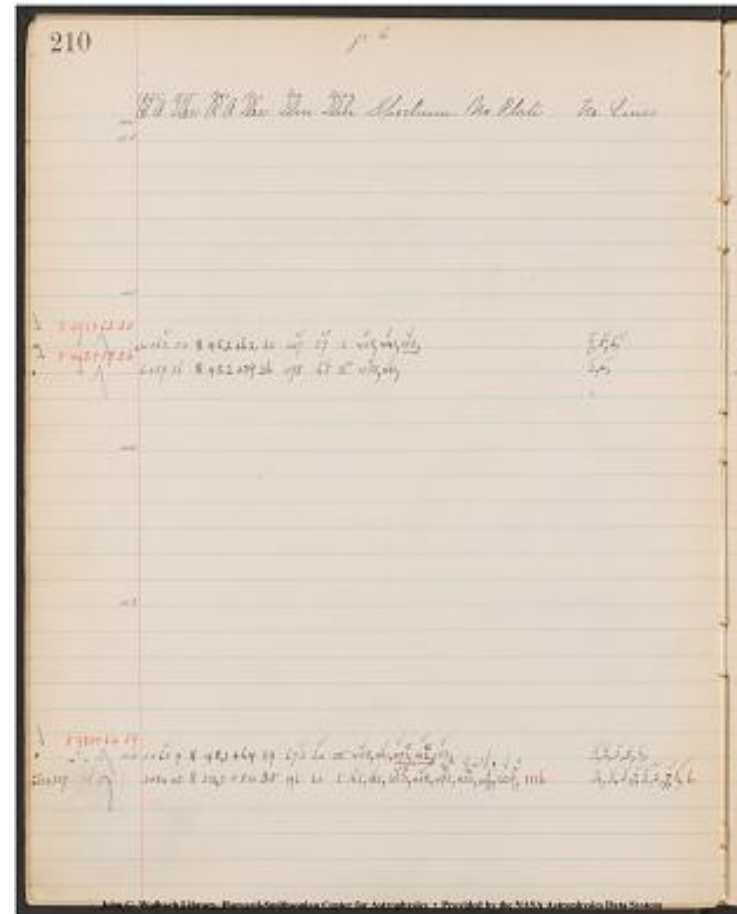
210  
8<sup>h</sup>[[h]]

[[left margin]]  
m  
40  
41  
[[/left margin]]

[[10 column table]]  
| | 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec | No. DM. | Mag. DM. |  
Spectrum. | No. Plate | No. Lines |  
|---|---|---|---|---|---|---|  
|.4+62<sup>h</sup>[[h]] 30 | 8 | 45.2+62 | 20 | 1027<sup>h</sup>[[h]] | 5.7<sup>h</sup>[[h]] | I | 458<sup>h</sup>[[h]], 441<sup>h</sup>[[h]],  
[[underlined]] 1113<sup>h</sup>[[h]] [[/underlined]] | 7<sup>h</sup>[[h]], 5<sup>h</sup>[[h]], 6<sup>h</sup>[[h]],  
|.6+59 36 | 8 | 45.2+59 | 26 | 1198 | 6.5<sup>h</sup>[[h]] | II<sup>h</sup>[[a]] | 458<sup>h</sup>[[h]], 441<sup>h</sup>[[h]] |  
2<sup>h</sup>[[h]], 2<sup>h</sup>[[h]]. |

[[left margin]]  
8 45.1+62 20 . ^  
8 45.2 +59 26 . ^  
42  
43  
848.0+65 59 . ^ 44  
.No.129 [[?]]  
[[/left margin]]

[[10 column table]]  
| | 1855 R.A. | 1855 Dec. | 1900 R.A. | 1900 Dec | No. DM. | Mag. DM. |  
Spectrum. | No. Plate | No. Lines |  
|---|---|---|---|---|---|---|  
|.1 +65<sup>h</sup>[[h]] 9 | 8 | 48.1+64 | 59 | 673<sup>h</sup>[[h]] | 6.0<sup>h</sup>[[h]] | III | 458<sup>h</sup>[[h]], 441<sup>h</sup>[[h]],  
[[underlined]] 1072<sup>h</sup>[[h]] [[/underlined]], [[underlined]] 1112<sup>h</sup>[[h]]  
[[/underlined]], 1113<sup>h</sup>[[h]], | 3<sup>h</sup>[[h]], 2<sup>h</sup>[[h]], 2<sup>h</sup>[[h]], 3<sup>h</sup>[[h]], 3<sup>h</sup>[[h]],  
|.3+84 45 | 8 | 54.5+84 | 35 | 196 | 6.0 | I | 165<sup>h</sup>[[h]], 185<sup>h</sup>[[h]],  
353<sup>h</sup>[[h]]<sup>h</sup>[[a]]], 458<sup>h</sup>[[h]], 495<sup>h</sup>[[h]]<sup>h</sup>[[a]]], 435<sup>h</sup>[[h]]<sup>h</sup>[[a]]], 1119<sup>h</sup>[[h]]<sup>h</sup>[[?]]],  
1229<sup>h</sup>[[h]]<sup>h</sup>[[?]]], 1116 | .4<sup>h</sup>[[h]], 3<sup>h</sup>[[h]], 2<sup>h</sup>[[h]], 7<sup>h</sup>[[h]], 2<sup>h</sup>[[h]], 2<sup>h</sup>[[h]], 7<sup>h</sup>[[h]], 6<sup>h</sup>[[h]],  
6 |



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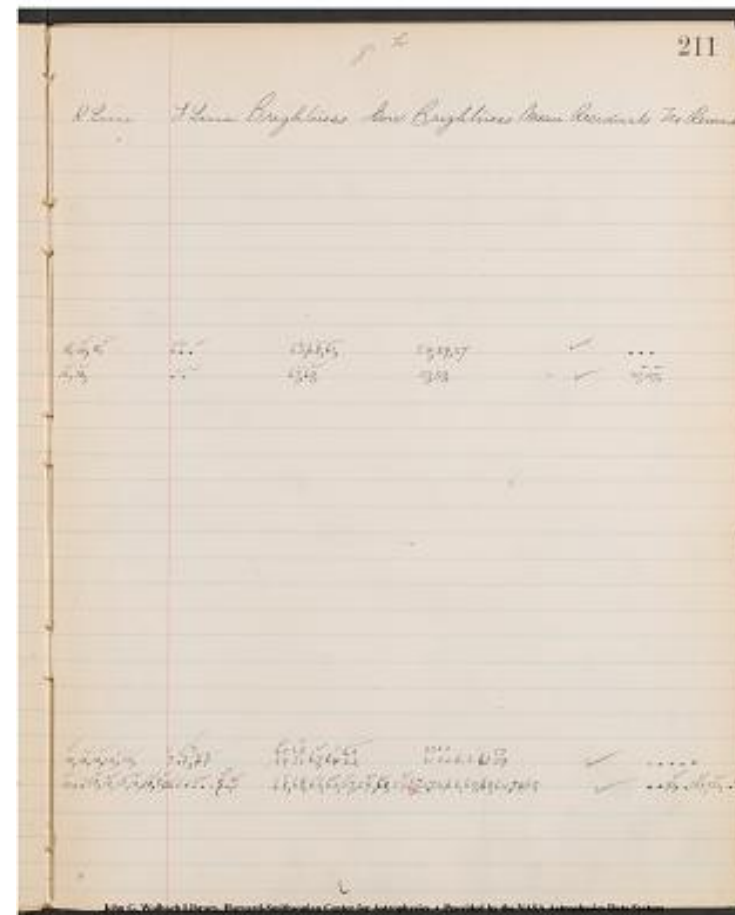
211  
 [[6 columned table]]  
 | K Line | F Line | Brightness | Corr. Brightness | Mean. Residuals | No.  
 Remark |

| 10, 10, 5, | ., ., | 6.3, 6.8, 6.1, | 5.4, 5.9, 5.7, | | ... |  
 | 10, 10, | ., ., | 6.7, 6.9, | 5.7, 5.9, | . | 107, 127, |

| 10, 10, 10, 10, 10, | S, S, S, S, |  
 6.9[6.5], 7.0[6.8], 6.7, 6.4[u], 6.2[6.0] |

5.7[6.1] 6.0[6.2] 6.3 6.1 5.7 5.9 | | .....

10, ., 10, 10, 10, 10, 10, 8, 10, ., ., ., ., S, S |  
 6.9, 6.8, 6.0, 6.0, 5.7, 5.4, 6.0, 5.4[[?]] 7.1, 7.0, 6.6, 6.9, 6.8, 6.47, 0.65  
 , | ., 91, .139, 151, ..



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8h

| | 1855 RA | 1855 Dec | 1900 RA | 1900 Dec | No DM | Mag. DM |  
Spectrum | No Plate | No Lines |  
m  
45

[[Row 1]]  
8 51.8+79 45

[[Row 2]]  
n. 132 . | 4+7955 | 8 52.0[strike-through]51.8+79 45 | 294 | I |  
441,495,435,1119[underlined] I?, 1229[underlined] II?,  
1112,1064,1065,1113, | 3,4,4,2,2, 5, 3, 5, 5,

[[Row 3]]  
. | 4+81 36 | 8 50.8[strike through] 52.6+8 1 26 | 278 | 7.9 | II | 1229,  
1065, 1113[underlined], 1074, | 2,2,2,2,

[[Row 4]]  
8 50.0+6 6 23

[[Row 5]]  
. | 46. 0 + 66 33 | 8 50.0+66 23 | 589 | 7.0 | I | 1112,[underlined]1113, |  
.3, 4, | .

[[Row 6]]  
8 49.7+58 36

[[Row 7]]  
. | .2+58 40 | 8 49.7+58 36 | 1159 | 4.0 | I | 458,441,1113,[13, is  
underlined] | 5,4,5,

[[Row 8]]  
8 51.7+76 48

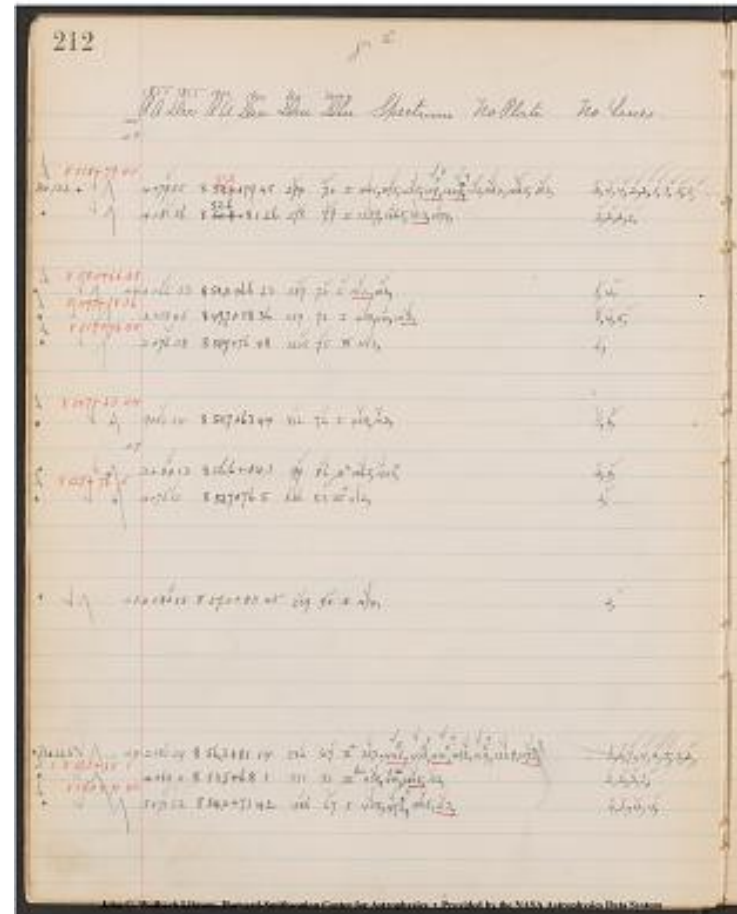
[[Row 9]]  
. | .2 +76 58 | 8 51.7+76 48 | 1335 | 7.5 | III | 1113, | 2,

[[Row 10]]  
8 50.7+ 63 44

[[Row 11]]  
. | . | .9+63 54 | 8 50.7+63 44 | 812 | 7.2 | I | 458, 1113, | 5,6,

[[Row 12]]  
47

[[Row 13]]  
. | . | .2+84 1 3 | 8 56.6+84 3 | 199 | 8.6 | IIa | 1065,1255I, | 2.,4,



[[Row 14]]  
8 52.7+ 76 5

[[Row 15]]  
. | . | .4+76 15 | 8 52.7+76 5 | 336 | 8.3 | III? | 1112, | 2,

[[Row 16]]  
. | 48.0+8355 | 8 57.0+83 45 | 239 | 9.0 | II | 1074, | 2,

[[Row 17]]  
.no.125 | .. 49.2+81 24 | 8 56.3+81 14 | 282 | 6.7 | IIa | 446I,458 I?, 441 I?,  
[[right margin]]  
458 I?, 441 I?,495,1119 I?,1229,1072 II?  
2,2,7,4,2,5,3,2,  
2,2,3,3,  
4,2,4,4,

[[left margin]]  
853.5+ 68 1

[[Row 18]]  
.4+68 11 8 53.5+68 1 | 551 | 5.1 | III bc | 458, 441, 1665, 1113,

[[Row 19]]  
.5+71 52 8 54.0+71 42 | 486 | 6.7 | I | 458, 1072, 1065, 1113,

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8th 213

K Line. Y Line. Brightness. [[Both?]]. Brightness. Mean. Residuals.  
[[No?]]. [[Real?]]

[[5 columns]]

[[Row 1]]  
10, . . . 10, 5, . . . 2, | . . . 5 . . . . . 5 ? | 6.9, 6.7, 6.7, 7.1, 6.8, 6.7, 6.6, 6.7, 6.6  
[[?] 7.1, 6.1, 7.0, 7.4, 7.2, 7.4, 7.1, 7.5, 7.3 | . . . . .

[[Row 2]]  
10, 10, 10, 10, | . . . . | 6.9, 6.8, 6.6 | 7.5, 7.8, . 7.4 | . . . .

[[Row 3]]  
. . | . [[5?]] | 6.9, 6.6, | 6.7, 6.4, | . .

[[Row 4]]  
5, 10, . | . . 5 | 7.1, 6.9, 6.5 | 6.1, 5.9, 6.0 | . . .

[[Row 5]]  
10, | . | 6.9 7.0 | 7.3 7.4 | .

[[Row 6]]  
10, . | . 2 | 6.9, 6.6, | 6.1, 6.3, | . .

[[Row 7]]  
10, . | . | 6.8, 6.5, | 8.2, 7.6 | 870 .

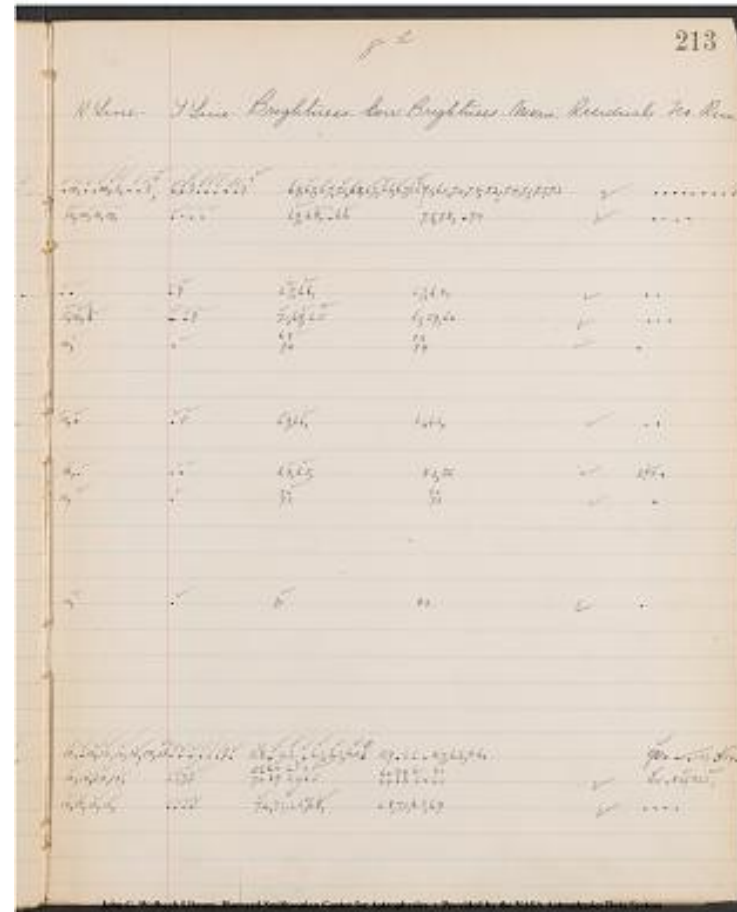
[[Row 8]]  
10, | . | 7.0 7.2 | 7.4 7.6 | .

[[Row 9]]  
10, | . | 7.1 | 8.2 | .

[[Row 10]]  
10, 10, 10, 10, 10, 10, 25? . . . . . 2 . | 5.8 . 6.2 . 6.1, 6.1, 6.0. | 5.9 . 6.6 .  
6.7, 6.6, 6.6. | 9.0. . . 133 . 754.

[[Row 11]]  
10, 10, 20, 10 | . . 5 5 | 6.6 6.4 6.1 6.1 7.0 6.9 6.4 6.5 | 6.0 5.8 6.1 6.0 6.4  
6.3 6.4 6.4 | 105 . 8 45, 832,

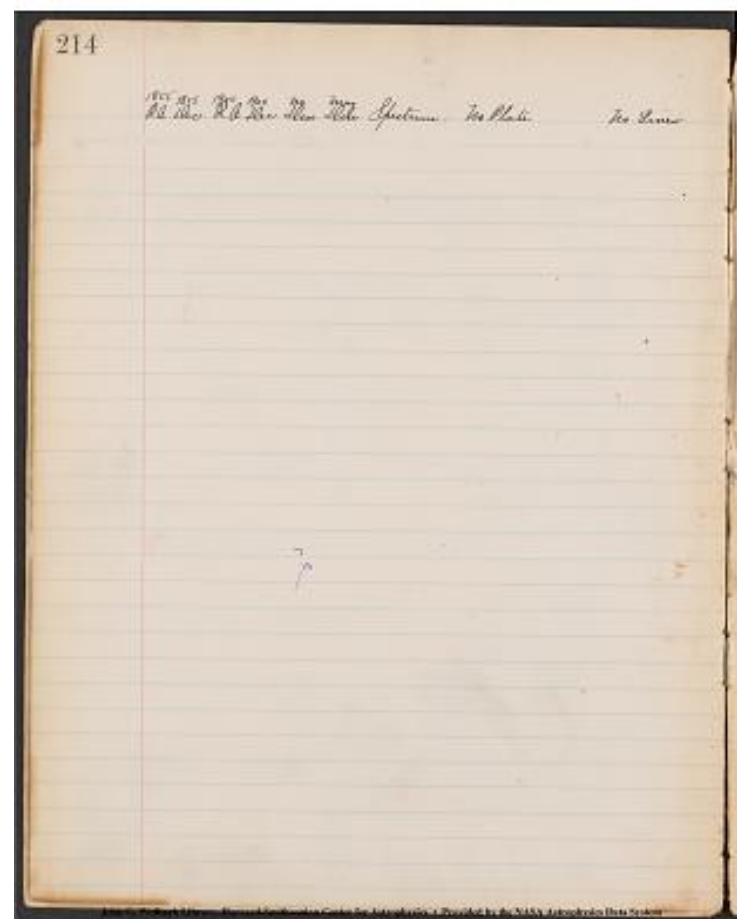
[[Row 12]]  
10, 10, 10, 10, | . . . . | 7.2, 7.1, 6.6, 6.8 | 6.8, 7.1, 6.8, 6.9 | . . . .



page number 214

[[9 columned table]]

1855 R.A.|1855 Dec.|1900 R.A|1900 Dec.|No. DM|Mag  
DM|Spectrum.|No. Plate.|No. Lines.



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[[7 columned table]]  
 [K Line.] [F Line.] [Brightness.] [Corr. Brightness.] [Mean.] [Residuals.] [No.  
 Remarks]

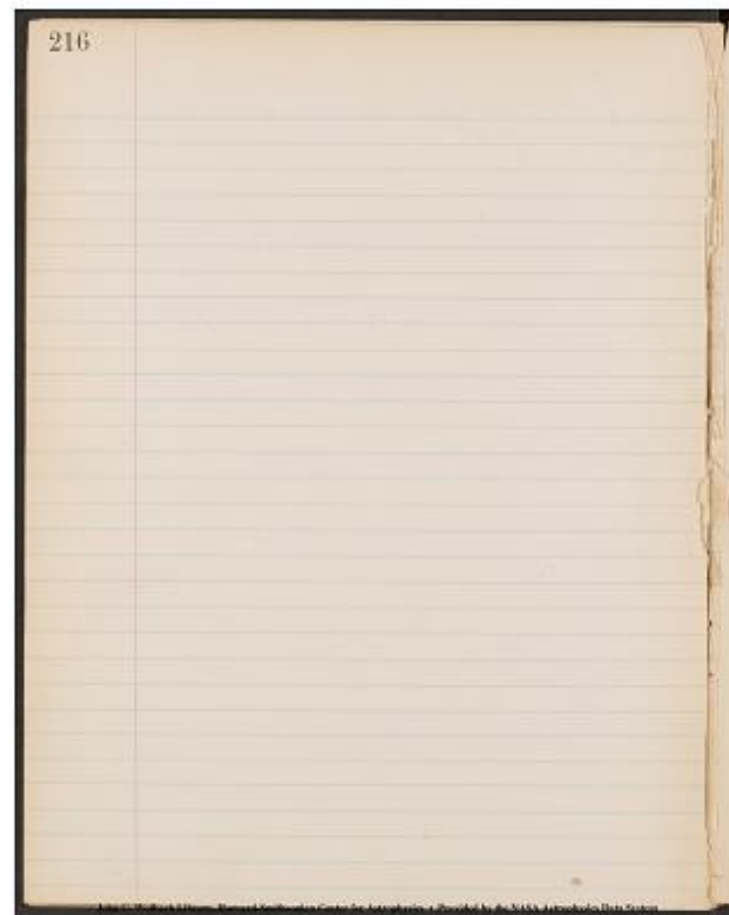
215

*K Line. F Line. Brightness. Corr. Brightness. Mean. Residuals. No. Remarks*

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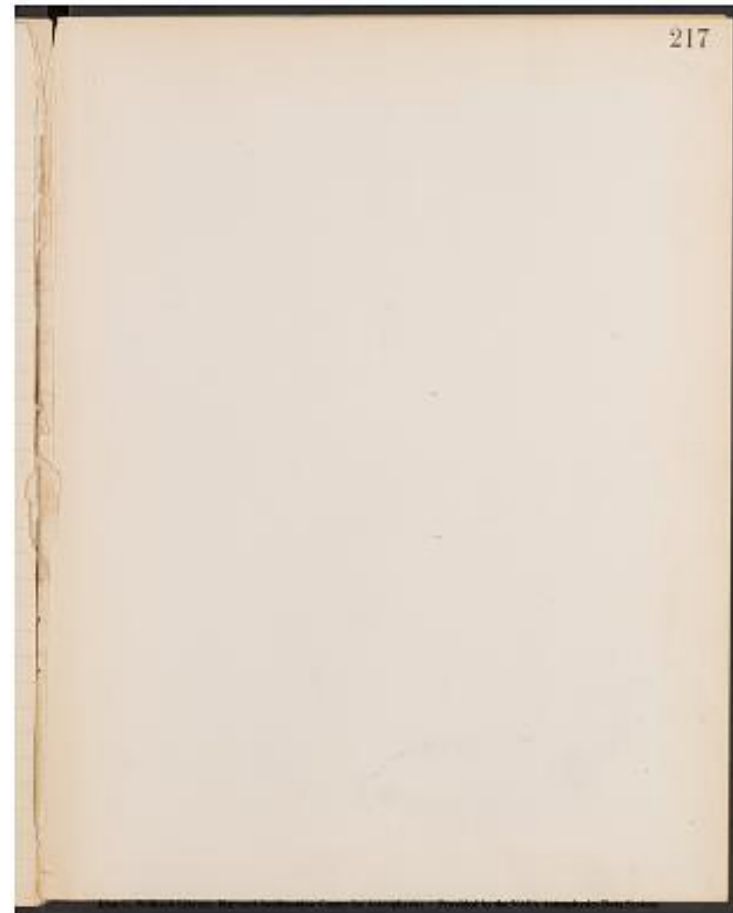
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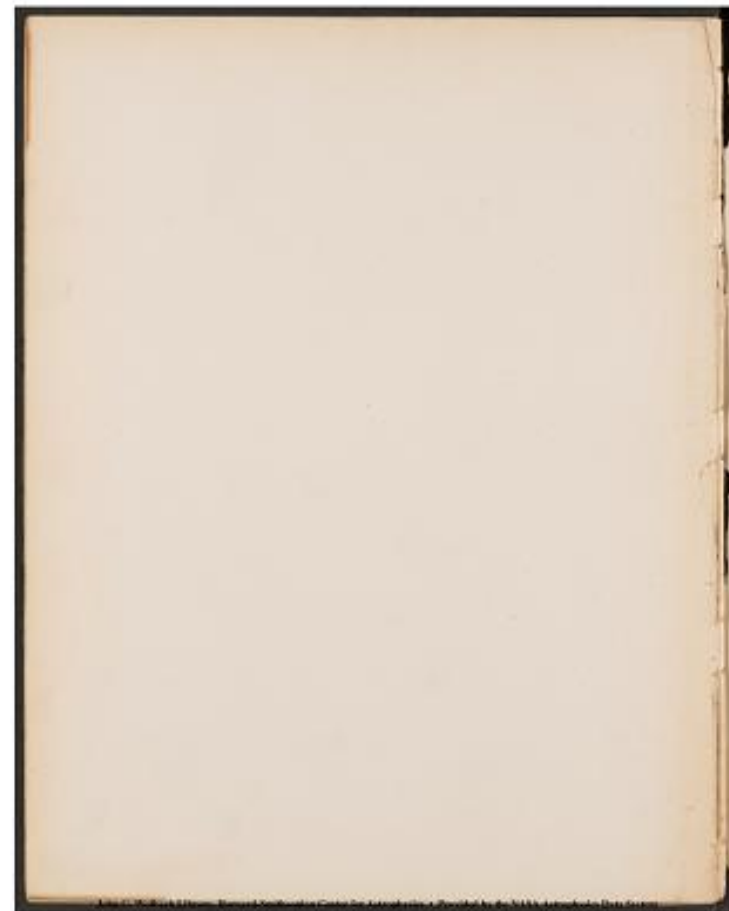
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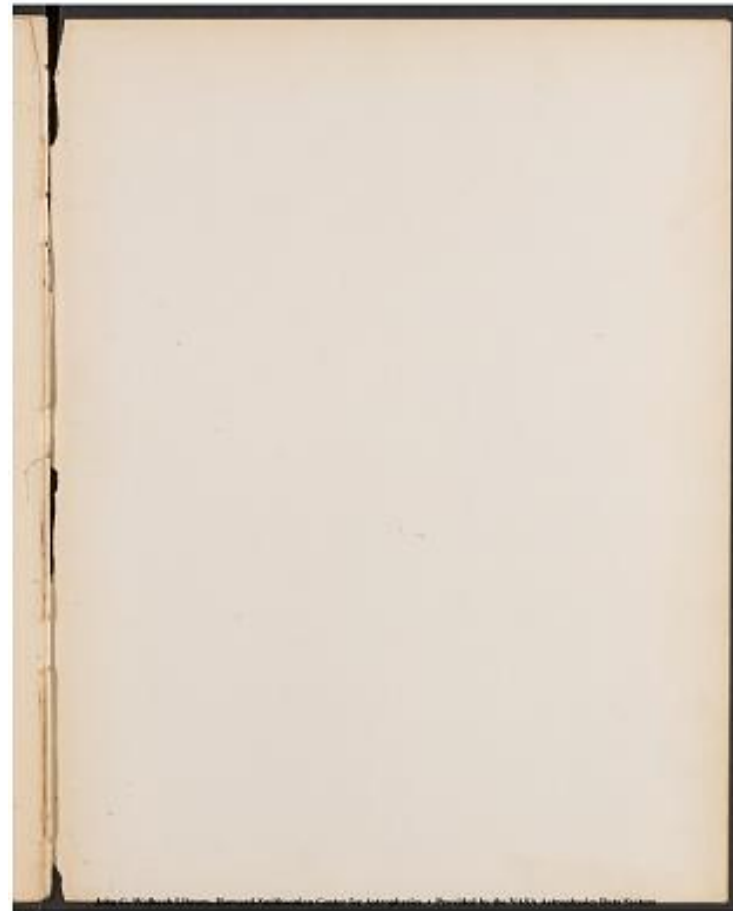


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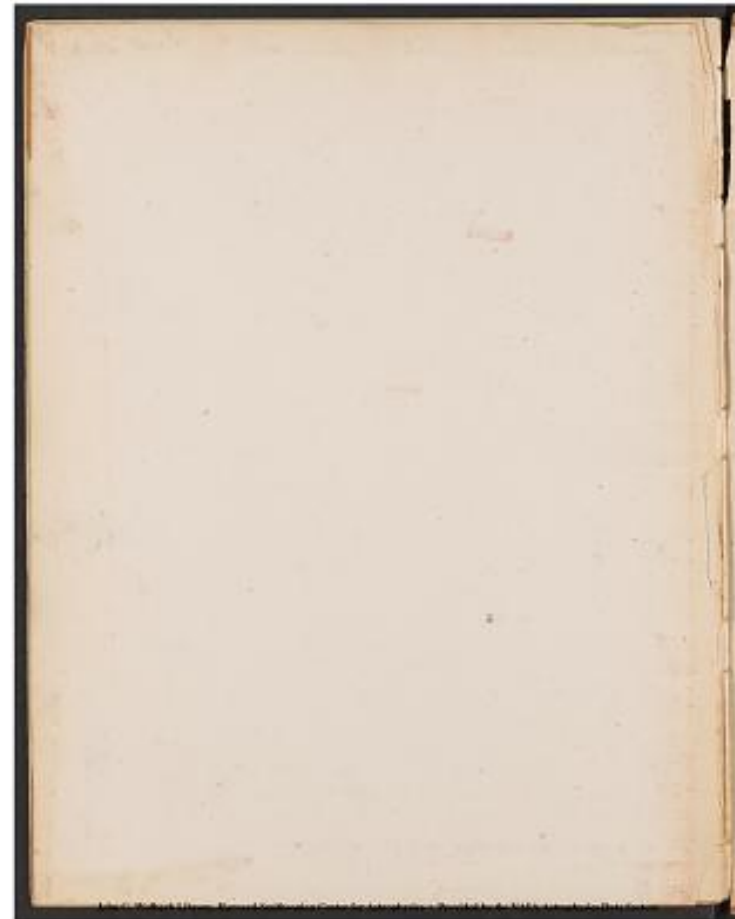
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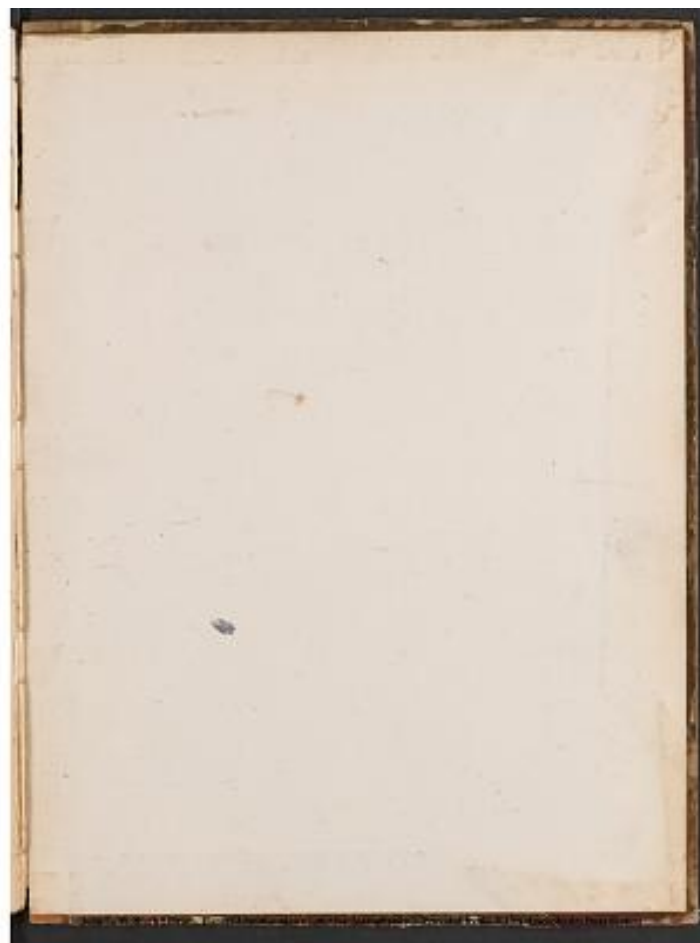
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