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*Harvard-Smithsonian Center for Astrophysics*

## **Project PHaEDRA - Evelyn F. Leland - New Satellite of Saturn and North Polar Sequence #29**

Extracted on Aug-29-2022 12:40:10

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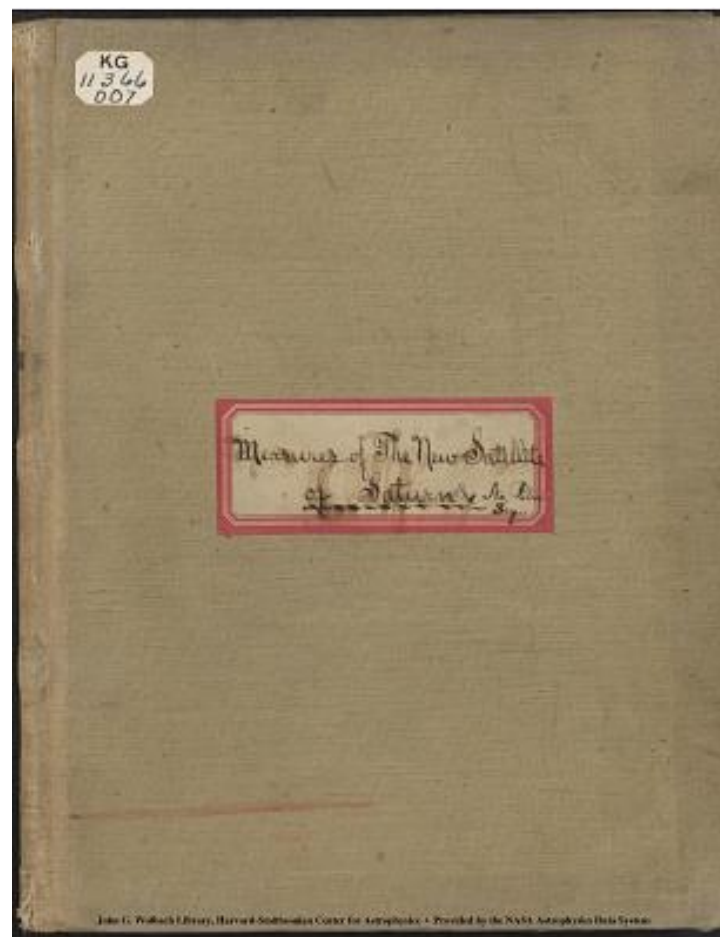
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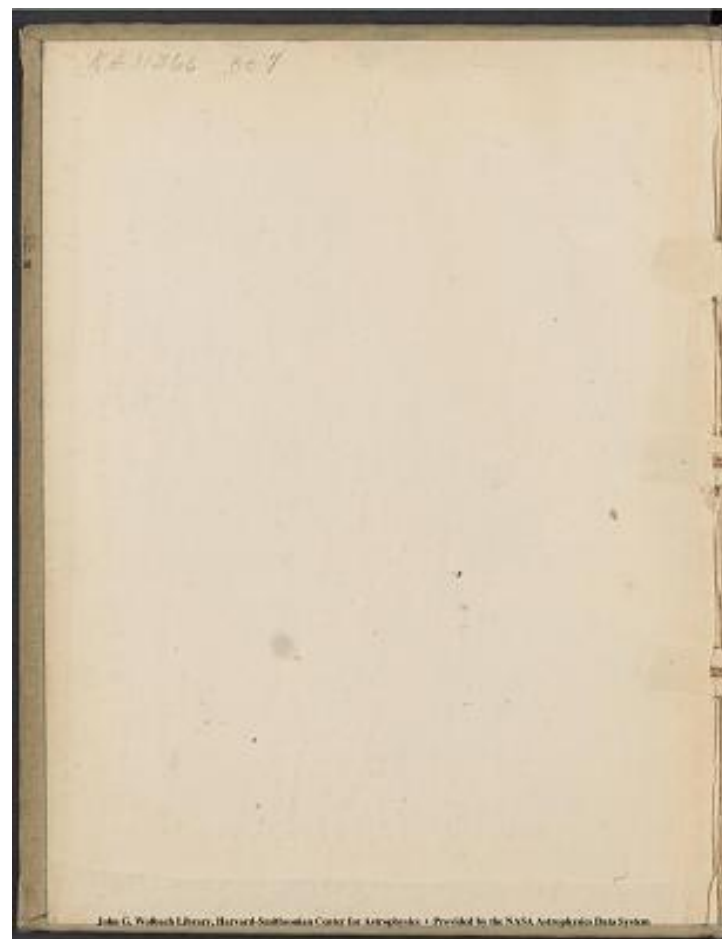
Measures of The New Satellite of Saturn and No. Polar Seg.

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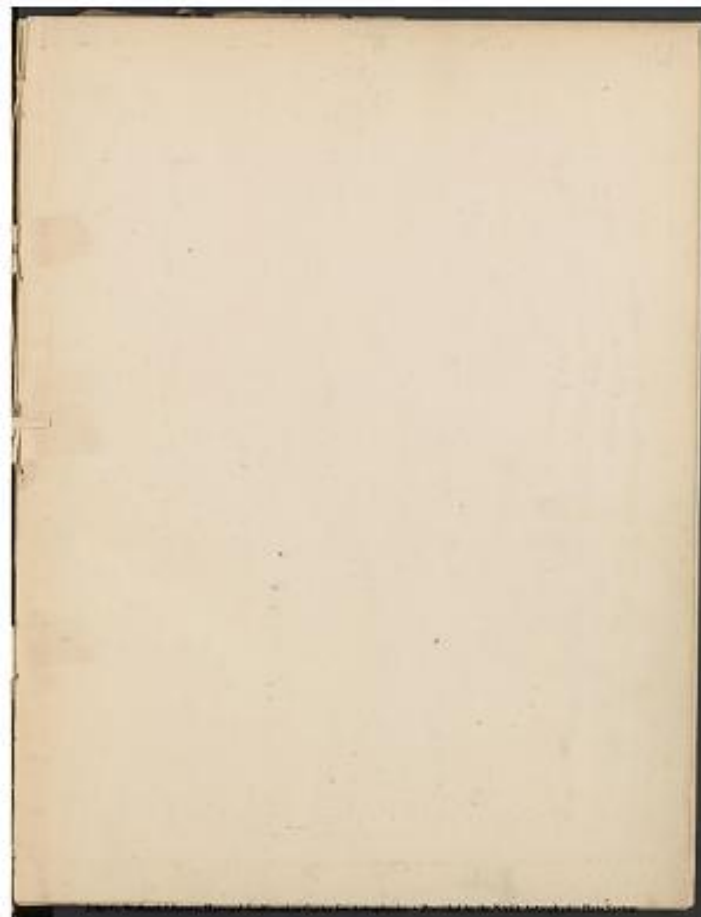
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Polar Sequence #29  
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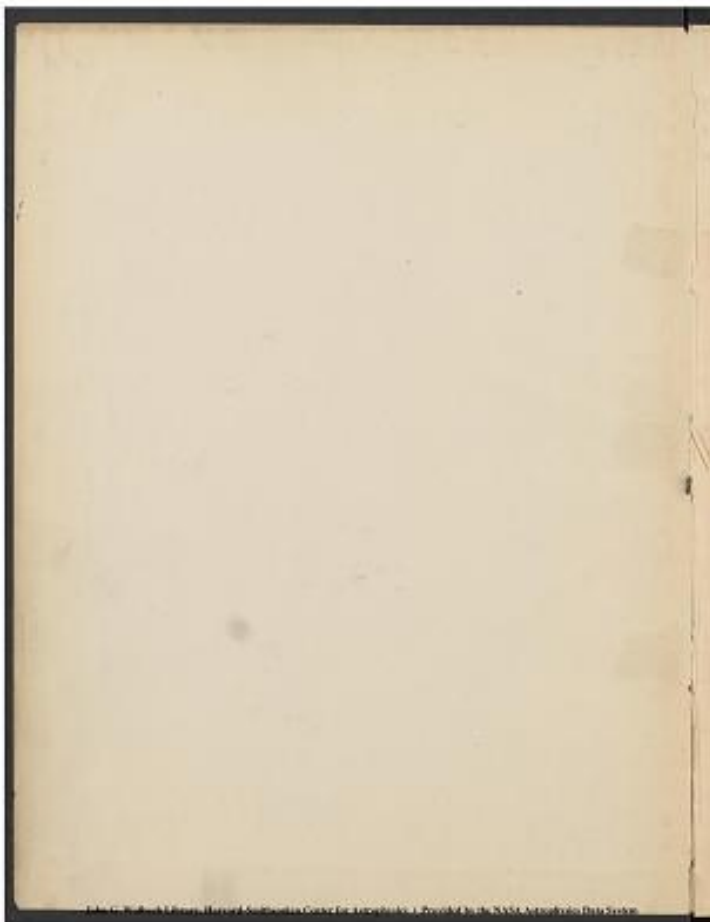
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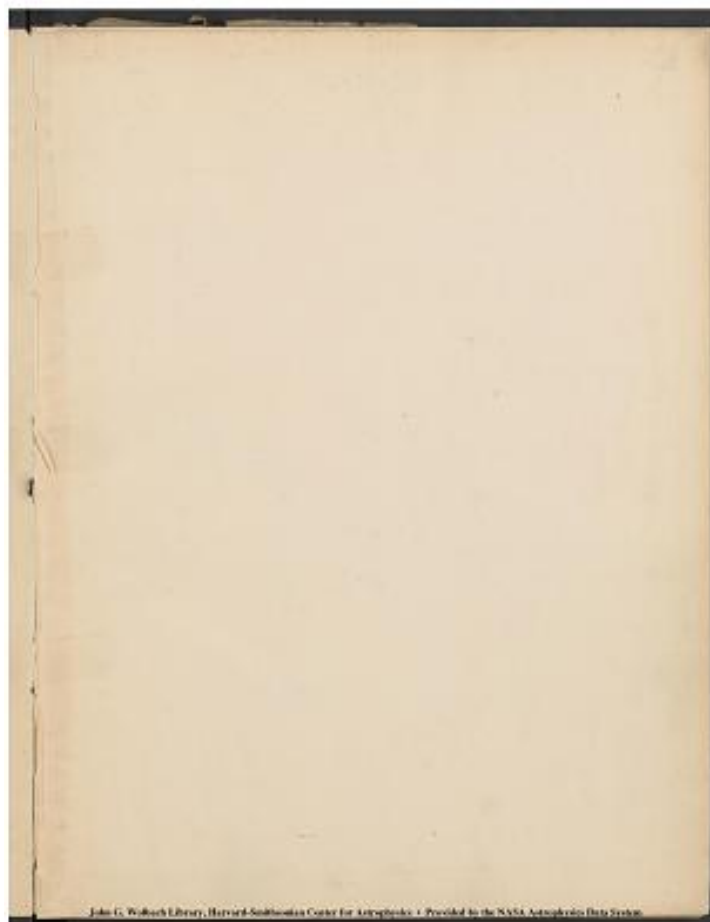
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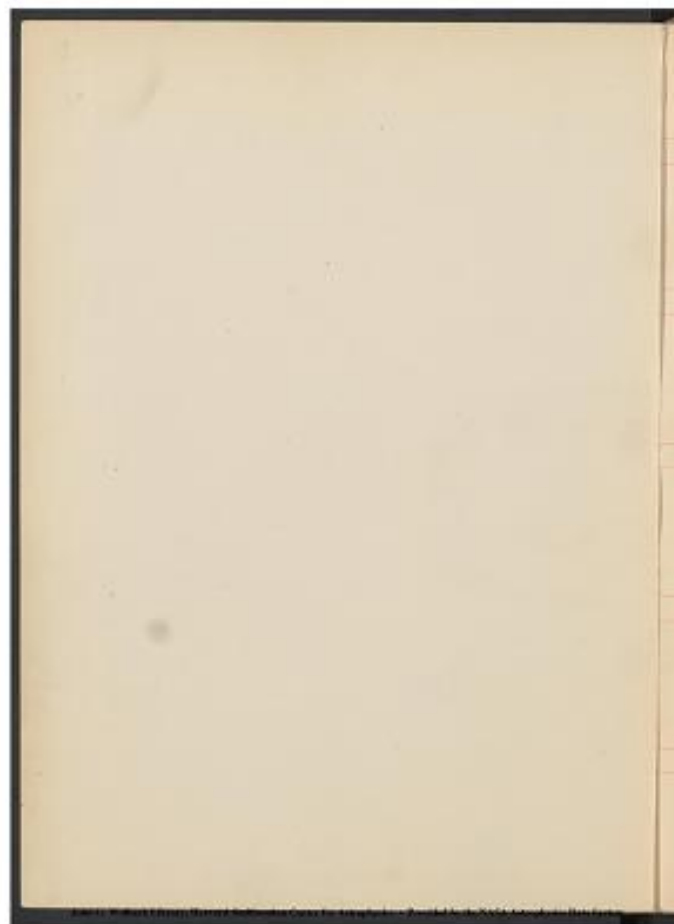
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1

*Contents.*

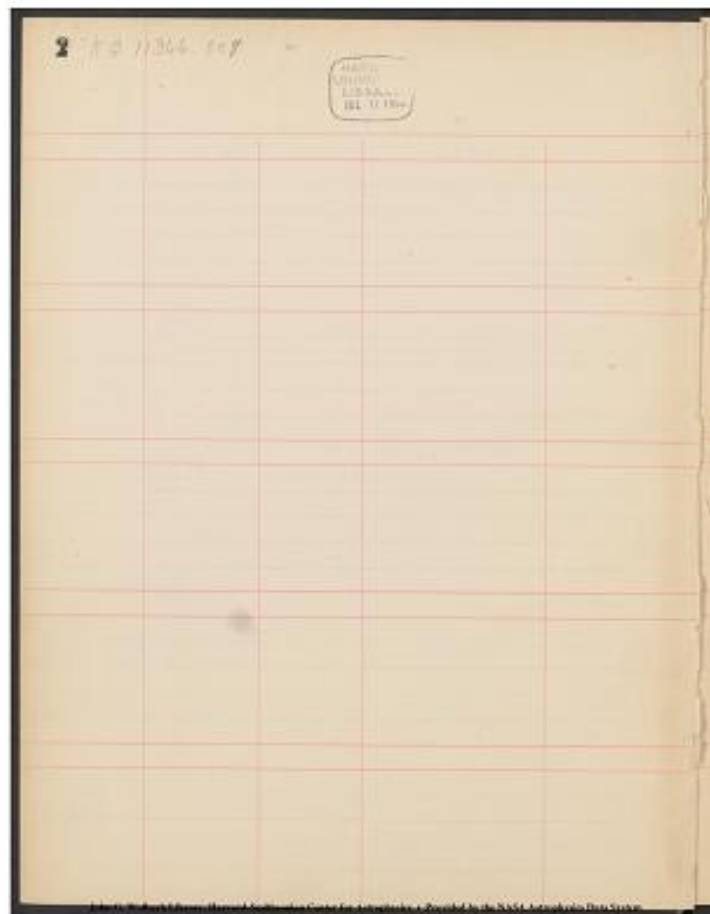
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[[stamp]]  
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3

[[no input]]



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4 10.40  
Feb 5, 1904  
Measures to determine position of Phoebe  
(Continued fr B 19<sup>a</sup>[[a]], p 114) E.F.L. Obs. H. L. S. Rec.  
D 102~~[[strike through]]~~ 16 ~~[[strike through]]~~ 95=A2650

[[17 column chart]]  
| X. | y | A | B | C | D | a+c | B+D | c-a | B-D ~~[[strike through]]~~ c  
~~[[strike through]]~~ x60 | yx60 | c-a x237 | B-D X238 | | |

B. | 9.4 | ~~[[strike through]]~~ 10 ~~[[strike through]]~~ 22.6 | 6.9 | 8.4 | 5.8 | 4.1  
| 127 | 125 | -11 | +43 | 540 | 1320 | -2.6 | +10.2 | 537.4 | 1330.2 |

12 | 1.3 | 33.6 | 8.4 | 9.8 | 4.0 | 2.7 | 124 | 125 | -44 | +71 | 60 | 1980 | -  
10.4 | +16.9 | 49.6 | 1996.9 |

13 | 1.4 | 5.5 | 8.5 | 6.6 | 4.4 | 5.8 | 129 | 124 | -41 | +08 | 60 | 300 | -9.7 |  
+1.9 | 50.3 | 301.9 |

14 | 16.2 | 24.8 | 10.4 | ~~[[strike out]]~~ 6 ~~[[strike out]]~~ 10.5 | 2 ~~[[strike out]]~~ .5  
~~[[strike out]]~~ .1 | 2.0 | 125 | 125 | -83 | +85 | 960 | 1440 | -19.7 | +20.2 |  
940.3 | 1460.2 |

15 | 17.6 | 36.5 | 5.1 | 6.9 | 7.6 | 5.7 | 127 | 126 | +25 | +12 | 1020 | 2160 |  
+5.9 | +2.9 | 1025.9 | 2162.9 |

16 | 22.9 | 8.5 | 1.5 | 6.5 | 11.1 | 6.5 | 126 | 130 | +96 | 00 | 1320 | 480 |  
+22.8 | 00 | 1342.8 | 480.0 |

~~[[strike out]]~~ 37 ~~[[strike out]]~~ 73 | 24.1 | 3.7 | 10.6 | 9.0 | 2.0 | 3.5 | 126 |  
125 | -86 | +55 | 1440 | 180 | -20.4 | 13.1 | 1419.6 | 193.1 |

P. | 9.4 | 22.6 | 6.9 | 8.5 | 5.7 | 4.1 | 126 | 126 | -12 | +44 | 540 | 1320 | -  
2.8 | +10.5 | 537.2 | 1330.5 |

J. | 27.2 | 14.2 | 10.4 | 2.5 | 2.1 | 10.1 | 125 | 126 | -83 | -76 | 1620 | 840 |  
-19.7 | -18.1 | 1600.3 | 821.9 |

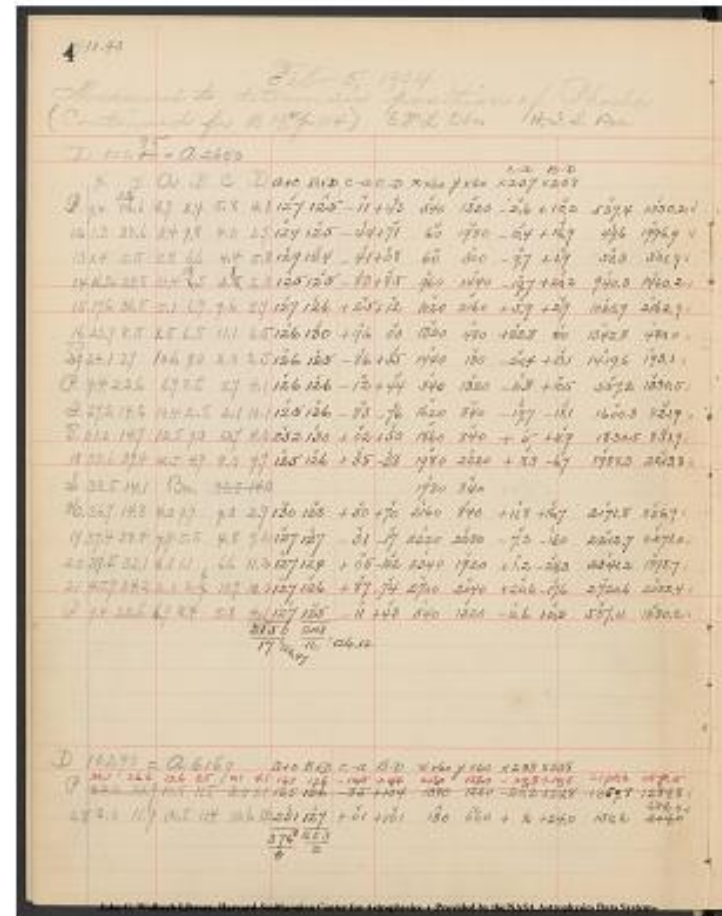
T. | 31.0 | 14.7 | 12.5 | 9.0 | 12.7 | 4.0 | 252 | 130 | +02 | +50 | 1860 | 840 |  
| +5 | +11.9 | 1830.5 | 851.9 |

18 | 33.6 | 37.4 | 4.5 | 4.9 | 8.0 | 7.7 | 125 | 126 | +35 | -28 | 1980 | 2220 |  
+8.3 | -6.7 | 1988.3 | 2213.3 |

S. | 33.5 | 14.1 | Br. | ~~[[strike out]]~~ 33.5 ~~[[strike out]]~~ | ~~[[strike out]]~~ 14.0  
~~[[strike out]]~~ | | | | 1980 | 840 | | | |

H. | 36.7 | 14.8 | 4.0 | 9.9 | 9.0 | 2.9 | 130 | 128 | +50 | +70 | 2160 | 840 |  
+11.8 | +16.7 | 2171.8 | 856.7 |

19 | 37.4 | 38.4 | 7.9 | 5.5 | 4.8 | 7.2 | 127 | 127 | -31 | -17 | 2220 | 2280 |  
-7.3 | -4.0 | 2212.7 | 2276.0 |



20 | 39.5 | 32.1 | 6.1 | 1.1 | 6.6 | 11.3 | 127 | 124 | +05 | -102 | 2340 |  
1920 | +1.2 | -24.3 | 2341.2 | 1895.7 |

21 | 45.9 | 34.2 | 2.0 | ~~9~~ ~~2.6~~ | 10.7 | 10.0 | 127 |  
126 | +87 | -74 | 2700 | 2040 | +20.6 | -17.6 | 2720.6 | 2022.4 |

P | 9.4 | 22.6 | 6.9 | 8.4 | 5.8 | 4.1 | 127 | 125 | -11 | +43 | 540 | 1320 | -  
2.6 | +10.2 | 537.4 | 1330.2 |

| | | | | | 2150 | 2018 | | | | | | |

| | | | | | 17 = 126.47 | 16 = 126.12 | | | | | | |

D | 10290 = A6169 | a+c | B+D | c-a | B-D | xx60 | yx60 | x238 | x238 |

P | ~~23.2~~ ~~36.1~~ | ~~21.9~~ ~~26.6~~ | ~~10.5~~ ~~12.6~~ | ~~11.5~~ ~~8.5~~ | ~~2.0~~ ~~0.1~~ | ~~1.1~~ ~~4.1~~ |  
~~125~~ ~~127~~ | ~~126~~ ~~126~~ |  
~~-85~~ ~~-125~~ | ~~+104~~ ~~+44~~ |  
~~1380~~ ~~2160~~ | ~~1260~~ ~~1560~~ |  
~~-20.2~~ ~~-29.8~~ | ~~+24.8~~ ~~+10.5~~ | ~~1359.8~~ ~~2130.2~~ | ~~1284.8~~ ~~1570.5~~ |

28 | 3.0 | 11.9 | 12.5 | 11.4 | 12.6 | 1.3 | 251 | 127 | +01 | +101 | 180 | 660  
| +2 | +24.0 | 150.2 | ~~204.0~~ ~~684.0~~ |

| | | | | | ~~6~~ ~~378~~ | 253 | | | | | | |

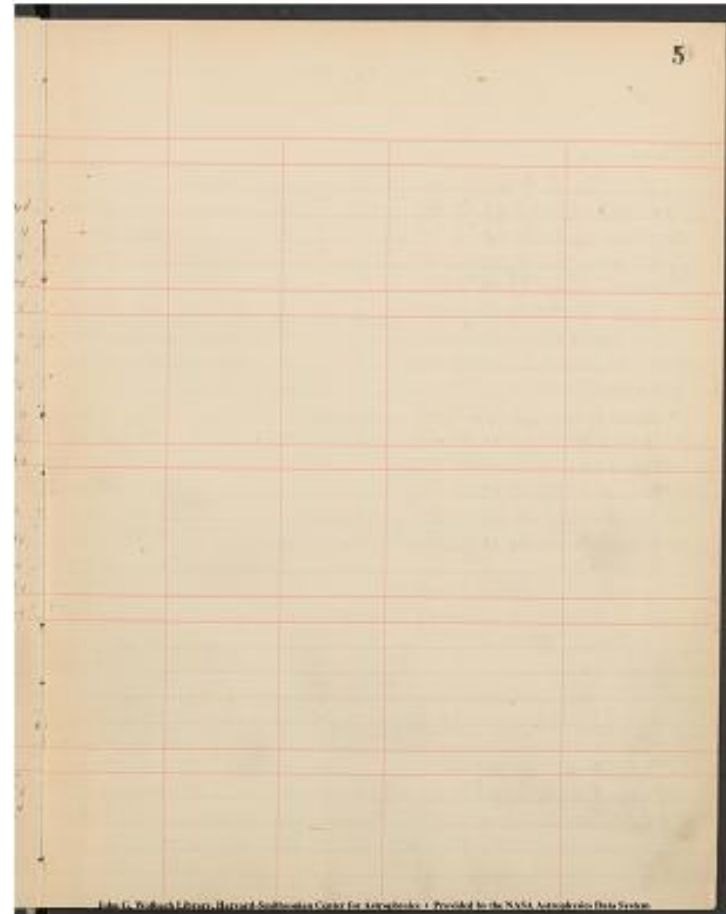
| | | | | | 3 | 2 | | | | | | |

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### Measures to determine position of Phoebe

[[17 column table]]

| x | y | A | B | C | D | A+C | B+D | C-A | B-D | xx60 | yy60 | x238^[[C-  
 A]] | x238 ^[[B-D]] | | |  
 |-----|-----|-----|-----|-----|-----|  
 49 | 3.9 | ~~4.0~~ | 36.6 | 0.1 | 7.5 | 12.4 | 5.0  
 125 | 125 | +123 | +25 | 240^[[180]] | 2160 | +29.3 | 209.3  
 [~~269.3~~] | 269.3 | ~~2166.0~~ | 2166.0 |  
 50 | 5.4 | 28.4 | 8.0 | 4.9 | 4.6 | ~~3.5~~ | 7.7  
 [~~3.3~~] | 3.3 | ~~126~~ | 126 | -34 | -28 | 300 | 1680 |  
 -8.1 | -6.7 | 291.9 | 1673.3 |  
 H | 8.8 | 21.0 | 2.6 | 12.5 | 10.0 | 0.1 | 126 | 126 | +74 | +124 | 480 |  
 1260 | +17.6 | +29.5 | 497.6 | 1289.5 |  
 | [[?]] | 8.8 | 23.6 | 2.1 | 7.5 | 10.5 | ~~8.8~~ |  
 5.4 | 126 | 129 | +84 | +21 | 480 | 1380 | +20.0 | +5.0 | 500.0 | 1385.0 |  
 T | 10.0 | 21.0 | 12.6 | 12.5 | 12.6 | 0.2 | 252 | 127 | 0.0 | +123 | 600 |  
 1260 | 0.0 | +293 | 570.0 | ~~600.0~~ | 1289.3 |  
 | P. |  
 30 | 10.3 | 8.6 | 9.1 | 9.0 | ~~4~~ | 3.3 | 3.5 |  
 124 | 125 | -58 | +55 | 600 | 480 | -13.8 | +13.1 | 586.2 | 493.1 |  
 S^[[1]] | 11.0 | 22.0 | Too Br. |  
 31 | 13.3 | 20.9 | 9.6 | 12.0 | 3.0 | 0 | 0.4 | 126 | 124 | -66 | +116 | 780 |  
 1200 | -15.7 | +27.6 | 764.3 | 1227.6 |  
 60 | 29.5 | 33.3 | 6.1 | 2.8 | 6.5 | 10.0 | 126 | 128 | +04 | -72 | 1740 |  
 1980 | +1.0 | -17.1 | 1741.0 | 1962.9 |  
 62 | 39.6 | 32.1 | 4.5 | 0.3 | 8.1 | 12.2 | 126 | 125 | +36 | -119 | 2340 |  
 1920 | +8.6 | -28.3 | 2348.6 | 1891.7 |  
 64 | 42.8 | 29.3 | 2.3 | 2.9 | 10.1 | 9.3 | 124 | 124 | +78 | -66 | 2520 |  
 1740 | +18.6 | -15.7 | 2538.6 | 1724.3 |  
 36 | 45.1 | 1.6 | 12.0 | 8.0 | 0.6 | 4.8 | 12.6 | 128 | -114 | +32 | 2700 | 60 |  
 -27.1 | +7.6 | 2672.9 | 67.6 |  
 | P |

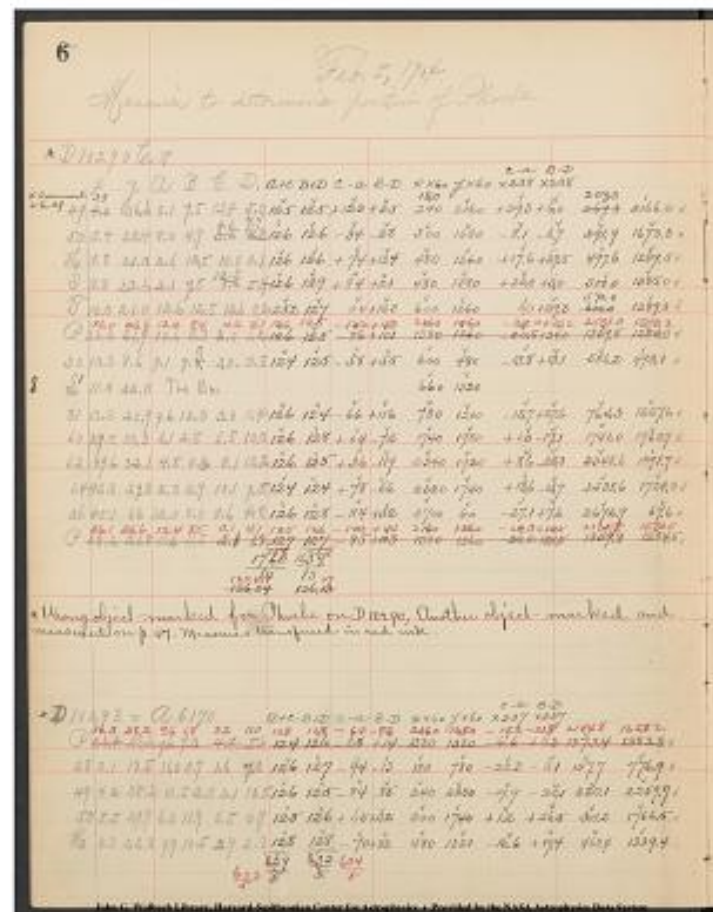
1758 ~~60~~ / 14    1639 ~~8~~  
~~/ 13~~  
 126.65 ~~126.24~~    126.07   
 .13

\*Wrong object - marked for Phoebe on D10290. Another object marked and measured on p. 47. Measures transferred in red ink.

| P |

28 | 3.1 | 13.5 | 11.0 | 5.7 | 1.6 | 7.0 | 126 | 127 | -94 | -13 | 180 | 780 | -  
22.3 | -3.1 | 157.7 | 776.9 |  
49 | 4.2 | 38.2 | 10.5 | 2.0 | 2.1 | 10.5 | 126 | 125 | -84 | -85 | 240 | 2280 |  
-19.9 | -20.1 | 220.1 | 2259.9 |  
50 | 5.5 | 29.9 | 6.0 | 11.9 | 6.5 | 0.7 | 125 | 126 | +05 | +112 | 300 | 1740  
+1.2 | +26.5 | 301.2 | 1766.5 |  
H | 8.3 | 22.2 | 9.9 | 10.5 | 2.9 | 2.3 | [128] |  
[128] | -70 | +82 | 480 | 1320 | -16.6 | +19.4 |  
463.4 | 1339.4 |

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7

[[no input]]



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8

Feb 5, 1904

Measure to determine Position of Phoebe.

\*D10293 Cent.

[[17 column table]]

X	y	A	B	C	D	A+C	B+D	C-A	B-D	Xx60	yx60	c-a	x237	B-D	x237
9.6	25.1	4.6	0.4	8.0	11.9	126	123	+34	-115	540	1500	+8.1	-27.3	548.1	1472.7

J	9.4	22.8	9.0	10.5	4.0	2.1	130	126	-50	+84	540	1320	-11.8	+19.9	528.2	1339.9
---	-----	------	-----	------	-----	-----	-----	-----	-----	-----	-----	------	-------	-------	-------	--------

S	11.5	23.5	11.4	11.4	660	1380
---	------	------	------	------	-----	------

P	23.4	23.6	7.9	7.0	5.0	5.6	129	126	-29	+14	1380	1380	-6.9	+3.3	1373.1	1383.3	36.3	28.1	9.6	1.7	3.0	11.1	126	128	-66	-94	2160	1680	-15.6	-22.3	2144.4	1657.7
---	------	------	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	--------	--------	------	------	-----	-----	-----	------	-----	-----	-----	-----	------	------	-------	-------	--------	--------

31	13.4	22.5	7.9	6.5	4.8	6.0	127	125	-31	+05	780	1320	-7.3	+1.2	772.7	1321.2
----	------	------	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	-------	--------

30	10.4	10.3	7.5	3.5	5.0	9.1	125	126	-25	-56	600	600	-5.9	-13.3	594.1	586.7
----	------	------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	-------	-------	-------

60	29.6	34.7	4.1	9.5	8.5	3.5	126	130	+44	+60	1740	2040	+10.4	+14.2	1750.4	2054.2
----	------	------	-----	-----	-----	-----	-----	-----	-----	-----	------	------	-------	-------	--------	--------

62	39.8	33.5	2.1	6.5	10.5	6.1	126	126	+84	+04	2340	1980	+19.9	+0.9	2359.9	2040.9
----	------	------	-----	-----	------	-----	-----	-----	-----	-----	------	------	-------	------	--------	--------

64	42.9	30.8	0.1	9.6	12.3	2.9	124	125	+122	+67	2520	1800	+28.9	+15.9	2548.9	1815.9
----	------	------	-----	-----	------	-----	-----	-----	------	-----	------	------	-------	-------	--------	--------

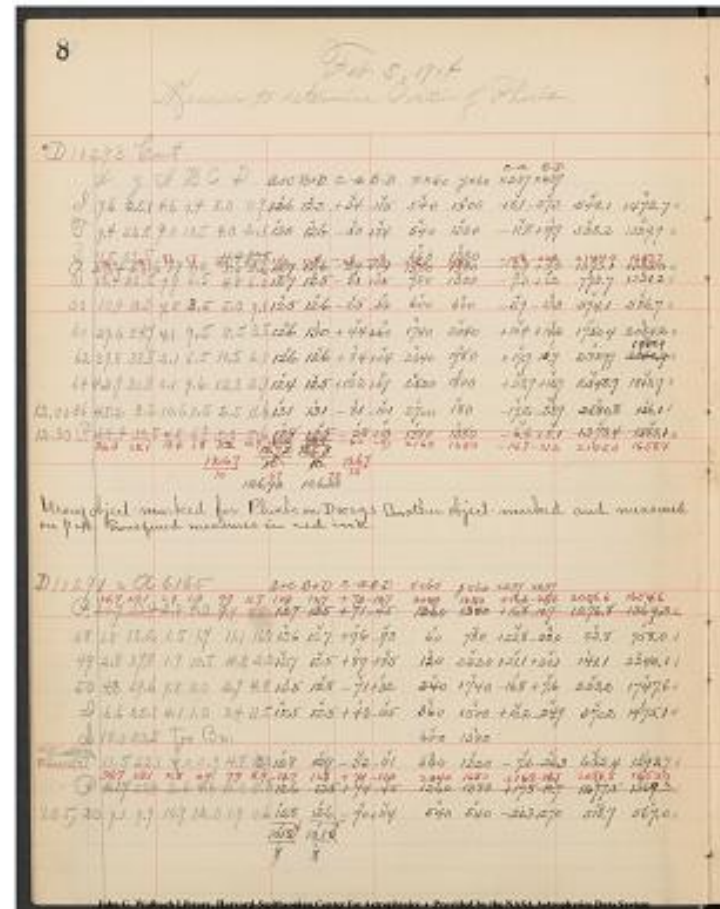
12.00	36	45.2	3.2	10.6	1.5	2.5	11.6	131	131	-81	-101	2700	180	-19.2	-23.9	2680.8	156.1
-------	----	------	-----	------	-----	-----	------	-----	-----	-----	------	------	-----	-------	-------	--------	-------

12.30	P	23.4	23.5	7.8	6.9	5.0	5.6	128	125	-28	+13	1380	1380	-6.6	+3.1	1373.4	1383.1	36.3	28.1	9.4	1.8	3.0	10.9	12.6	127	-62	-91	2160	1680	-14.7	-21.6	2145.3	1658.4
-------	---	------	------	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	--------	--------	------	------	-----	-----	-----	------	------	-----	-----	-----	------	------	-------	-------	--------	--------

1267/10	1272/10	1263/10	1267/10	126	73	67	126	33
---------	---------	---------	---------	-----	----	----	-----	----

^[[Wrong object marked for Phoebe on D10293 Another object marked and measured on P46. Transferred measures in red ink]]

D10291=A6165  
[[17 column table]]



| | | | | | | A+C | B+D | C-A | B-D | Xx60 | yx60 | x237 | x237 | |  
|  
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |  
P. | ~~31.7~~ | 23.4 | 2.8 | 4.0 | 9.9 | 8.5 | 127 | 125 | +71 | -  
45 | 1260 | 1380 | +16.8 | -10.7 | 1276.8 | 1369.3 | ~~34.7~~ |  
28.1 | 2.9 | 1.0 | 9.9 | 11.7 | 128 | 127 | +70 | -107 | 2040 | 1680 | +16.6 |  
-25.4 | 2056.6 | 1654.6 |

28 | 1.8 | 13.2 | 1.5 | 1.7 | 11.1 | 11.0 | 126 | 127 | +96 | -93 | 60 | 780 |  
+22.8 | -22.0 | 82.8 | 758.0 |

49 | 2.8 | 37.8 | 1.9 | 10.5 | 10.8 | 2.0 | 127 | 125 | +89 | +85 | 120 | 2220 |  
+21.1 | +20.1 | 141.1 | 2240.1 |

50 | 4.3 | 29.6 | 9.8 | 8.0 | 2.7 | 4.8 | 125 | 128 | -71 | +32 | 240 | 1740 | -  
16.8 | +7.6 | 223.2 | 1747.6 |

I | 6.6 | 25.1 | 4.1 | 1.0 | 8.4 | 11.5 | 125 | 125 | +43 | -105 | 360 | 1500 |  
+10.2 | -24.9 | 370.2 | 1475.1 |

S | 10.0 | 23.5 | Too Br. | | | | | | | 600 | 1380 | | | | |

^[[difficult to meas.]] T | 11.5 | 22.1 | ~~9~~ |  
8.0 | 0.9 | 4.8 | 12.0 | 128 | 129 | -32 | -111 | 660 | 1320 | -7.6 | -26.3 |  
652.4 | 1293.7 |

P | ~~21.7~~ | 23.4 | 2.6 | 4.0 | 10.0 | 8.5 | 126 | 125 | +74 | -  
45 | 1260 | 1380 | +17.5 | -10.7 | 1277.5 | 1369.3 | ~~34.7~~ |  
28.1 | 2.8 | 0.9 | 9.9 | 11.9 | 127 | 128 | +71 | -110 | 2040 | 1680 | +16.8 |  
-26.1 | 2056.8 | 1653.9 |

-1.05, 30 | 9.1 | 9.9 | 10.9 12.0 | 1.9 | 0.6 | 128/101 ~~2~~ |  
~~4/8~~ | 126/101~~0~~ | ~~5/8~~ | -  
90 | +114 | 540 | 540 | -21.3 | +27.0 | 518.7 | 567.0 |

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9

[[no input]]



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FEB 5, 1904

## 1.05 MEASURE TO DETERMINE POSITION OF PHOEBE

\*D10291 Cont.

[[16 column table]]

x	y	A	B	C	D	A+C	B+D	C-A	B-D	Xx60	Yx60	x237	x237
---	---	---	---	---	---	-----	-----	-----	-----	------	------	------	------

31	12.1	22.2	10.8	2.0	1.9	10.7	12.7	[[checkmark]]	12.7	[[checkmark]]	-89	[[checkmark]]	-87	[[checkmark]]	720	[[checkmark]]	1320	[[checkmark]]	-21.1	[[checkmark]]	-20.6	[[checkmark]]	698.9	1299.4	[[checkmark]]
----	------	------	------	-----	-----	------	------	---------------	------	---------------	-----	---------------	-----	---------------	-----	---------------	------	---------------	-------	---------------	-------	---------------	-------	--------	---------------

60	28.4	[[/strikethrough]]	2	[[/strikethrough]]	34.4	7.8	5.9	4.9	6.8	127	[[checkmark]]	127	[[checkmark]]	-29	[[checkmark]]	-09	[[checkmark]]	1680	[[checkmark]]	[[/strikethrough]]	14	[[/strikethrough]]	2040	[[checkmark]]	-6.9	[[checkmark]]	-2.1	[[checkmark]]	1673.1	[[/strikethrough]]	1437.9	[[/strikethrough]]	2037.9	[[checkmark]]
----	------	--------------------	---	--------------------	------	-----	-----	-----	-----	-----	---------------	-----	---------------	-----	---------------	-----	---------------	------	---------------	--------------------	----	--------------------	------	---------------	------	---------------	------	---------------	--------	--------------------	--------	--------------------	--------	---------------

62	38.5	33.3	6.0	3.1	6.6	9.4	126	[[checkmark]]	125	[[checkmark]]	+06	[[checkmark]]	-63	[[checkmark]]	2280	[[checkmark]]	1980	[[checkmark]]	+1.4	[[checkmark]]	-14.9	[[checkmark]]	2281.4	1965.1	[[checkmark]]
----	------	------	-----	-----	-----	-----	-----	---------------	-----	---------------	-----	---------------	-----	---------------	------	---------------	------	---------------	------	---------------	-------	---------------	--------	--------	---------------

64	41.6	30.5	4.1	6.4	8.5	6.2	126	[[checkmark]]	126	[[checkmark]]	+44	[[checkmark]]	+02	[[checkmark]]	2460	[[checkmark]]	1800	[[checkmark]]	+10.4	[[checkmark]]	+5	2470.4	1800.5	[[checkmark]]
----	------	------	-----	-----	-----	-----	-----	---------------	-----	---------------	-----	---------------	-----	---------------	------	---------------	------	---------------	-------	---------------	----	--------	--------	---------------

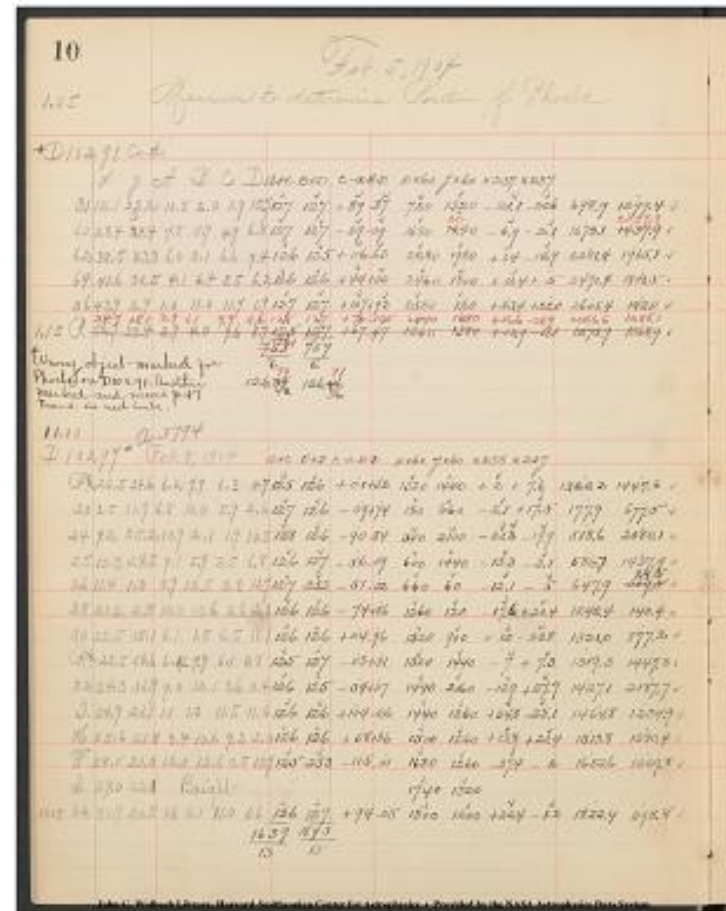
36	43.9	2.9	1.0	11.0	11.7	1.7	127	[[checkmark]]	127	[[checkmark]]	+107	[[checkmark]]	+93	[[checkmark]]	2580	[[checkmark]]	120	[[checkmark]]	+25.4	+22.0	2605.4	142.0	[[checkmark]]
----	------	-----	-----	------	------	-----	-----	---------------	-----	---------------	------	---------------	-----	---------------	------	---------------	-----	---------------	-------	-------	--------	-------	---------------

^[[1.15]]	P	[[/strikethrough]]	22.7	23.4	2.9	4.0	9.6	8.7	125	127	+67	-47	1260	1380	+15.9	-11.1	1275.9	1368.9	[[checkmark]]	[[/strikethrough]]	34.7	28.1	2.9	1.1	9.9	11.6	128	127	+70	-105	2040	1680	+166	-24.9	2056.6	1655.1
-----------	---	--------------------	------	------	-----	-----	-----	-----	-----	-----	-----	-----	------	------	-------	-------	--------	--------	---------------	--------------------	------	------	-----	-----	-----	------	-----	-----	-----	------	------	------	------	-------	--------	--------

[[/strikethrough]]	758	[[/strikethrough]]	761/6	759/6
--------------------	-----	--------------------	-------	-------

126.	[[/strikethrough]]	38	[[/strikethrough]]	43	[[/strikethrough]]	79	126.	[[/strikethrough]]	46	[[/strikethrough]]	36	[[/strikethrough]]	71	[[/strikethrough]]
------	--------------------	----	--------------------	----	--------------------	----	------	--------------------	----	--------------------	----	--------------------	----	--------------------

\*Wrong object - marked for Phoebe on D10291. Another marked and meas p.47  
Trans. in red ink.



11.00  
D10297 = A3794 Feb. 8, 1904 | | | | | | A+C | B+D | C-A | B-D  
| 4x60 | Yx60 | x238 | x237 | | |

| P ~~[[checkmark]]~~ ? ~~[[checkmark]]~~ | 22.5 | 24.6 | 6.2 | 7.9 | 6.3 | 4.7 |  
125 ~~[[checkmark]]~~ | 126 ~~[[checkmark]]~~ | +01 | +32 | 1320 ~~[[checkmark]]~~ |  
1440 ~~[[checkmark]]~~ | +2 ~~[[checkmark]]~~ | +7.6 ~~[[checkmark]]~~ | 1320.2 |  
1447.6 ~~[[checkmark]]~~ |

| 20 | 3.5 | 11.7 | 6.8 | 10.0 | 5.9 | 2.6 | 127 ~~[[checkmark]]~~ | 126  
~~[[checkmark]]~~ | -09 | +74 | 180 ~~[[checkmark]]~~ | 660 ~~[[checkmark]]~~ | -2.1  
~~[[checkmark]]~~ | +17.5 ~~[[checkmark]]~~ | 177.9 | 677.5 ~~[[checkmark]]~~ |

| 24 | 9.2 | 35.2 | 10.9 | 2.1 | 1.9 | 10.5 | 128 ~~[[checkmark]]~~ | 126  
~~[[checkmark]]~~ | -90 | -84 | 540 ~~[[checkmark]]~~ | 2100 ~~[[checkmark]]~~ | -  
21.~~[[checkmark]]~~ 3 ~~[[checkmark]]~~ 4 ~~[[checkmark]]~~ | -19.9  
~~[[checkmark]]~~ | 518.6 | 2080.1 ~~[[checkmark]]~~ |

| 25 | 10.3 | 24.5 | 9.1 | 5.9 | 3.5 | 6.8 | 126 ~~[[checkmark]]~~ | 127  
~~[[checkmark]]~~ | -56 | -09 | 600 ~~[[checkmark]]~~ | 1440 ~~[[checkmark]]~~ | -13.3  
~~[[checkmark]]~~ | -2.1 ~~[[checkmark]]~~ | 586.7 | 1437.9 ~~[[checkmark]]~~ |

| 26 | 11.4 | 1.0 | 8.9 | 12.5 | 3.8 | 12.7 | 12.7 ~~[[checkmark]]~~ | 252  
~~[[checkmark]]~~ | -51 | -02 | 660 ~~[[checkmark]]~~ | 60 ~~[[checkmark]]~~ | -12.1  
~~[[checkmark]]~~ | -5 ~~[[checkmark]]~~ | 647.9 | ~~[[checkmark]]~~ 569.5  
~~[[checkmark]]~~ 29.5 ~~[[checkmark]]~~ |

| 28 | 21.2 | 2.8 | 10.0 | 10.6 | 2.6 | 2.0 | 126 ~~[[checkmark]]~~ | 126  
~~[[checkmark]]~~ | -74 | +86 | 1260 ~~[[checkmark]]~~ | 120 ~~[[checkmark]]~~ | -17.6  
~~[[checkmark]]~~ | +20.4 ~~[[checkmark]]~~ | 1242.4 | 140.4 ~~[[checkmark]]~~ |

| 30 | 22.5 | 15.1 | 6.1 | 1.5 | 6.5 | 11.1 | 126 ~~[[checkmark]]~~ | 126  
~~[[checkmark]]~~ | +04 | -96 | 1320 ~~[[checkmark]]~~ | 900 ~~[[checkmark]]~~ | +1.0  
~~[[checkmark]]~~ | -22.8 | 1321.0 | 877.2 ~~[[checkmark]]~~ |

| P ~~[[checkmark]]~~ ? ~~[[checkmark]]~~ | 22.5 | 24.6 | 6.4 | 7.9 | 6.1 | 4.8 |  
125 ~~[[checkmark]]~~ | 127 ~~[[checkmark]]~~ | -03 | +31 | 1320 ~~[[checkmark]]~~ |  
1440 ~~[[checkmark]]~~ | -7 ~~[[checkmark]]~~ | 7.3 ~~[[checkmark]]~~ | 1319.3 |  
1447.3 ~~[[checkmark]]~~ |

| 32 | 24.3 | 36.9 | 9.0 | 12.1 | 3.6 | 0.4 | 126 ~~[[checkmark]]~~ | 125  
~~[[checkmark]]~~ | -54 | +117 | 1440 ~~[[checkmark]]~~ | 2160 | -12.9  
~~[[checkmark]]~~ | +27.7 ~~[[checkmark]]~~ | 1427.1 | 2187.7 ~~[[checkmark]]~~ |

| J | 24.9 | 21.1 | 1.1 | 1.0 | 11.5 | 11.6 | 126 ~~[[checkmark]]~~ | 126  
~~[[checkmark]]~~ | +104 | -106 | 1440 ~~[[checkmark]]~~ | 1260 ~~[[checkmark]]~~ |  
+24.8 ~~[[checkmark]]~~ | -25.1 ~~[[checkmark]]~~ | 1464.8 | 1234.9 ~~[[checkmark]]~~ |  
|

| H | 25.6 | 21.8 | 3.4 | 10.6 | 9.2 | 2.0 | 126 ~~[[checkmark]]~~ | 126  
~~[[checkmark]]~~ | +58 | +86 | 1500 ~~[[checkmark]]~~ | 1260 ~~[[checkmark]]~~ |  
+73.8 ~~[[checkmark]]~~ | +20.4 ~~[[checkmark]]~~ | 1513.8 | 1280.4  
~~[[checkmark]]~~ |

| G | 28.1 | 21.0 | 12.0 | 12.6 | 0.5 | 12.7 | 125 ~~[[checkmark]]~~ | 253

[[checkmark]] | -115 | -01 | 1680 [[checkmark]] | 1260 [[checkmark]] | -  
27.4 [[checkmark]] | -2 | 1652.6 | 1229.8 [[checkmark]] |

| S | 29.0 | 22.1 | | Bright | | | | | 1740 [[checkmark]] | 1320  
[[checkmark]] | | | |

^[11.15]] | 34 | 30.9 | 20.5 | 1.6 | 6.1 | 11.0 | 6.6 | 126/1639/13  
[[checkmark]] | 127/1893/15 [[checkmark]] | +94 | -05 | 1800  
[[checkmark]] | 1200 [[checkmark]] | +22.4 [[checkmark]] | -1.2  
[[checkmark]] | 1822.4 | 1198.8 [[checkmark]] |

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## Measures to determine Position of Phoebe

11.15

D10297 cont.

	X		y		A		B		C		D		a+c		B+D		c-a		B-D		Xx60		Yx60		x238		x237	
[[ <del>1916.7</del> ]]																												

[[17 columns]]

35	32.4	6.4	7.0	3.8
----	------	-----	-----	-----

5.6 | 9.0 | ☒ 126 | ☒ 128 | -14 |  
52 | ☒ 1920 | ☒ 360 | ☒  
-3.3 | ☒ -12.3 | 1916.7 | ☒  
☒ 347.7

[[17 columns]]

37 | 39.7 | 35.6 | 3.1 | 4.5 | 9.6 | 5.1 | [[symbol checkmark]] 127 |  
 [[symbol checkmark]] 126 | +65 | +24 | [[symbol checkmark]] 2340 |  
 [[symbol checkmark]] 2100 | [[symbol checkmark]] +15.5 | [[symbol  
 checkmark]] +5.7 | 2355.5 | 2105.7 [[symbol checkmark]] |

[[17 columns]]

~~IP~~~~?~~ | 22.5 | 24.6 | 6.4 | 8.0 | 6.2 | 5.0 |  
~~[[symbol checkmark]]~~ 126/379/3 | ~~[[symbol checkmark]]~~ 130/384/3 -  
 02+30~~[[strike through]]~~40~~[[strike through]]~~ | ~~[[symbol checkmark]]~~ 1320 |  
~~[[symbol checkmark]]~~ 1440 | ~~[[symbol checkmark]]~~ -5 | +7.1 ~~[[strike through]]~~ 9.5  
~~[[strike through]]~~ 9.5 ~~[[strike through]]~~ | 1319.5 | 1447.1 ~~[[strike through]]~~ 9.5  
~~[[strike through]]~~ |  
 | | | | | 126.12 | 126.50 | | | | |

|| D102

~~99~~ ~~58=A4754~~ | a+c | b+d | c-a | B-D |  
Xx60 | Yx60 | x238 | x237 | |

[[12 columns]]

image faint | P...9.4 22.4 7.6 5.2 5.0 7.3 |[[symbol checkmark]] 126 |  
[[symbol checkmark]] 125 | -26 | -21 |[[symbol checkmark]] 540 |  
[[symbol checkmark]] 1320 | [[symbol checkmark]] -6.2 | [[symbol  
checkmark]] -5.0 | 533.8 | 1315.0 |

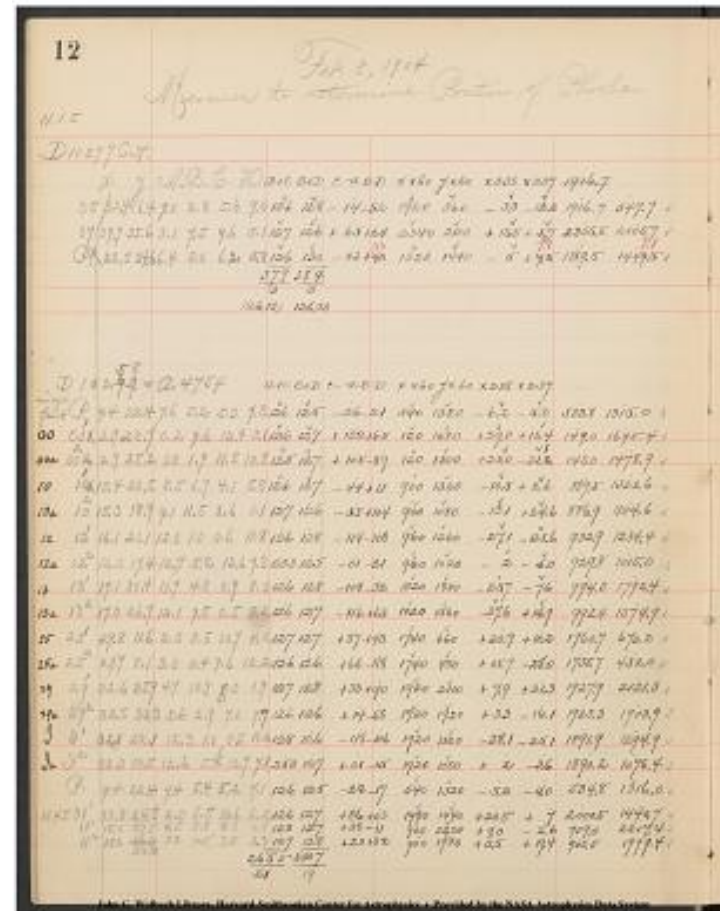
[[12 columns]]

00	00A[1]	x 2.9	28.7	0.2	9.6	12.4	3.1	[symbol checkmark]	126
[symbol checkmark]	127	+122	+65	[symbol checkmark]	120				
[symbol checkmark]	1680	[symbol checkmark]	+29.0	[symbol checkmark]					
checkmark]	+15.4	149.0	[symbol checkmark]	1695.4					

[[12 columns]]

| 00a | 002^~~2~~ | ~~2~~ | ~~2.9~~ ~~25.2~~ ~~1.0~~ ~~1.9~~ ~~11.5~~ |  
| 10.8 | ~~125~~ | ~~127~~ | +105 | -89  
| ~~120~~ | ~~1500~~ | ~~25.0~~ | ~~21.1~~ | ~~2~~  
| ~~145.0~~ | ~~1478.9~~ |

[[12 columns]]





| 10 | 10<sup>1</sup> | ~~1~~ | 15.4 22.5 8.5 6.9 4.1 5.8  
 | ☒ 126 | ☒ 127 | -44 | +1.1 |  
☒ 900 | ☒ 1320 | ☒  
☒ -10.5 | ☒ +2.6 | 889.5 | 1322.6 ☒  
☒ |

[[ 12 columns]]  
 | 10a | 10<sup>2</sup> | 15.3 18.9 9.1 11.5 3.6 1.1 | 127 | 126 | -55 | +104 | ☒  
☒ 900 | ☒ 1080 | ☒  
☒ -13.1 | ☒ +24.6 | 886.9 | 1104.6  
☒ |

[[12 columns]]  
 | 12 | 12<sup>1</sup> | 16.1 21.1 12.0 1.0 0.6 11.8 | 126 | 128 | -114 | -108 |  
☒ 960 | ☒ 1260 | ☒  
☒ -27.1 | ☒ -25.6 | 932.9 | 1234.4 ☒  
☒ |

[[12 columns]]  
 | 12a | 12<sup>2</sup> | 16.0 17.4 12.7 5.2 12.6 7.3 | 253 | 125 | -01 | -21 | ☒  
☒ 960 | ☒ 1020 | ☒ -  
 2 | ☒ -5.0 | 929.8 | 1015.0 ☒ |

[[12 columns]]  
 | 13 | 13<sup>1</sup> | 17.1 30.4 11.7 4.8 0.9 8.0 | 126 | 128 | -108 | -32 | ☒  
☒ 1020 | ☒ 1800 | ☒ -  
 25.7 | ☒ -7.6 | 994.3 | 1792.4 ☒  
☒ |

[[12 columns]]  
 | 13a | 13<sup>2</sup> | 17.0 26.7 12.1 9.5 0.5 3.2 | 126 | 127 | -116 | +63 | ☒  
☒ 1020 | ☒ 1560 | ☒ -  
 27.6 | ☒ +14.9 | 992.4 | 1574.9 ☒ |

[[12 columns]]  
 | 25 | 25<sup>1</sup> | 29.8 11.6 2.0 8.5 10.7  
 4.2 | 127 | 127 | +87 | +43 | 1740 | 660 | +20.7 | +10.2 | 1760.7 | 670.2 |

[[12 columns]]  
 | 25a | 25<sup>2</sup> | 29.7 8.1 3.0 0.4 9.6 12.2 | 126 | 126 | +66 | -188 | 1740 | 480 | +15.7 | -  
 28.0 | 1755.7 | 452.0 |

[[12 columns]]  
 | 29 | 29<sup>1</sup> | 32.6 35.9 4.7 10.9 8.0  
 1.9 | 127 | 128 | +33 | +90 | 1920 | 2100 | +7.9 | +21.3 | 1927.9 | 2121.3 |

[[12 columns]]  
 | 29a | 29<sup>2</sup> | 32.5 32.3 5.6 2.9 7.0 9.7 | 126 | 126 | +14 | -68 | 1920 | 1920 | +3.3 | -  
 16.1 | 1923.3 | 1903.9 |

[[12 columns]]  
 | | | 32.1 22.1 12.3 1.0 0.5 11.6 | 128 | 126 | -118 | -106 | 1920 | 1080 | +2 | -  
 3.6 | 1890.2 | 1076.4 |

[[12 columns]]  
 | a | | 32.0 18.5 12.6 5. | 8 | 6 | 12.7 7.1 | 253 | 127 | +01 | -

15|1920|1080|+2|-3.6|1890.2|1076.4|

[[11 columns]]  
||P. 9.4 22.4 7.4 5.4 5.2 7.1|126|125|-22|-17|540|1320|-5.2|-  
4.0|534.8|1316.0|

[[11 columns]]  
|11.45|31^[1] 33.8 24.5 2.0 6.5 10.6  
6.2|126|127|+86|+03|1980|1440|+20.5|+7|2000.5|1440.7|

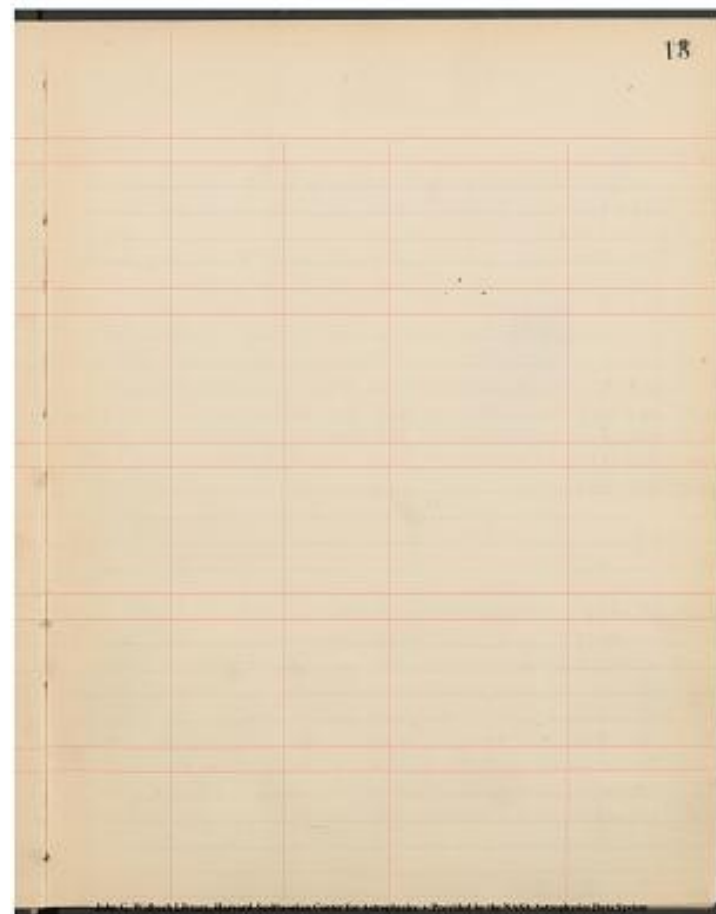
||11^[1]|15.6 37.5 4.5 5.8 8.3 6.9|128|127|+38|-11|900|2220|+9.0|-  
2.6|909.0|2217.4|

||11^[2]|15.6|32.4|33.8 5.2 10.5 7.5  
2.3|127/2655/21|128/2407/19|+23|+82|900|1980|+5.5|+19.4|905.5|1999.  
4|  
John G. Wolback Library, Harvard-Smithsonian Center for Astrophysics  
[[bullet point]] Provided by the NASA Astrophysics Data System

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13

[[no input]]



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14  
Feb 8, 1904  
11.45 Measures to determine Position of Phoebe

D10258 Cont.

[[17 column table]]  
| x|y|a|B|C|D|a+c|B+D|c-a|B-D|xx60|yx60||x238^[c-a]|x237^[B-D]| | |  
|-----|  
|31^2|2|33.7|20.8|3.5|10.9|9.3|1|strike]5[/strike].7|128|126|+58|+92|1980|  
|1200|13.8|21.8|1993.8| 1221.8|  
|J^1|1|Cannot meas.[strike]For Br.[/strike]|  
|J^2|38.3|17.3|10|3.0|2.8|9.9|128|129|-72|-69|2280|1020|-17.1|-  
16.4	2262.9	1003.6												
D?	37.9	15.7	0.9	10.0	11.8	3.0	127	130	+109	+70	2220	900	+25.9	+16.6
2245.9	916.6													
I?	38.1	15.6	11.5	9.5	1.1	3.2	126	127	-104	+63	2280	900	-	
24.8	+14.9	2255.2	914.9											
S^2	38.5	16.0	5.0	12.6	[[strikethrough]] 5	12.6	[[/strikethrough]]							
7.5	12.7	125	252	+25	-02	2280								
R	39.8	15.4	12.0	5.9	0.8	128	126	-112	-08	2340	900	-26.7	-	
1.9	2313.3	898.1												
44^1	42.6	24.7	5.0	9.6	7.7	3.0	127	126	+27	+66	2520	1440	+6.4	+15.6
526.4	1455.6													
44^2	42.5	21.2	6.5	2.0	6.1	10.7	126	127	-04	-87	2520	1260	-1.0	-
20.6	2519.0	1239.4												
45^1	43.3	11.6	8.9	7.0	3.7	5.5	126	125	-52	+115	2580	660	-	
12.4	+3.6	2567.6	663.6											
45^2	43.2	7.9	10.2	12.0	2.3	0.6	125	126	-79	+114	2580	420	-	
18.8	+27.0	2561.2	447.0	12.05 P.	9.4	22.4	7.4	5.4	5.2	7.3	126			
[[underline]]	127	[[underline]]	-22	-19	540	1320	-5.2	-4.5						
534.8	1315.5													

|1392|[[underline]]| |1521|[[underline]]| |11| |12| 126.16| |126.71|

|12.45| |D10296 = a2654| a+C| B+D| |C-a| |B-D| Xx60| |Yx60| |x237|  
x236|

|P| |11.6| |22.7| |5.4| |9.9| |7.3| |2.9| |127| |128| |+19| |+70| |660| |1320|  
|+4.5| |+16.5| |664.5| |1336.5|

|12| |1.4| |34.6| |7.9| |7.1| |4.9| |5.6| |128| |127| |-30| |+15| |60| |2040| |-7.1| |+3.5|  
52.9| 2043.5|

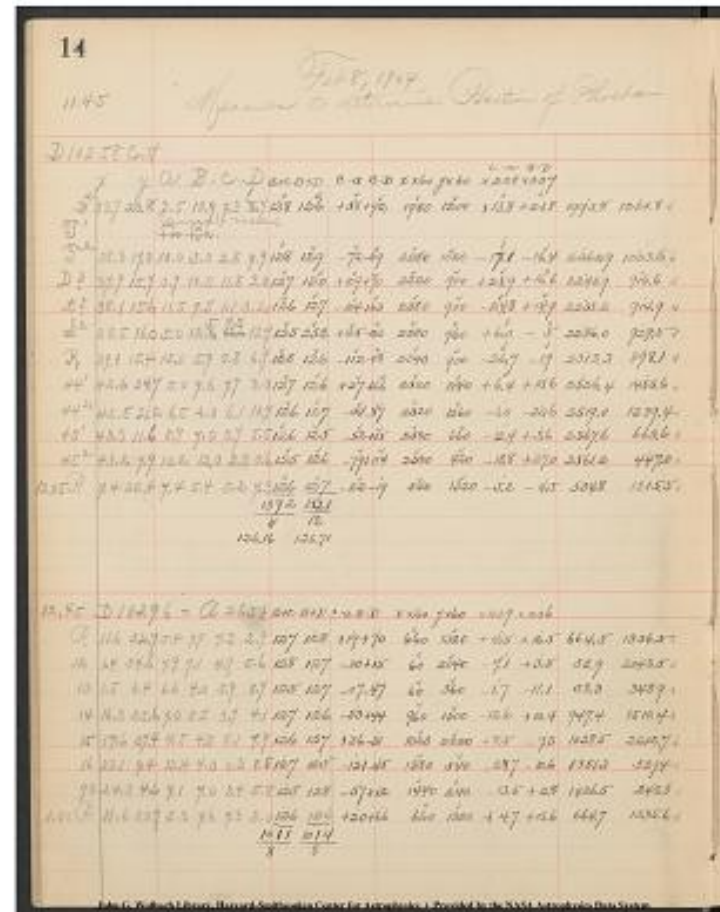
|13| |1.5| |6.4| |6.6| |4.0| |5.9| |8.7| |125| |127| |-07| |-47| |60| |360| |-1.7| |-11.1|  
58.3| 348.9|

|14| |16.3| |25.6| |9.0| |8.5| |3.7| |4.1| |127| |126| |-53| |+44| |960| |1500| |-12.6|  
|+10.4| |947.4| |1510.4|

|15| |17.6| |37.4| |4.5| |4.8| |8.1| |7.9| |126| |127| |+36| |-31| |1020| |2220|  
|+8.5| |-7.3| |1028.5| 2212.7|

|16| |3.1| |9.4| |12.4| |4.0| |0.3| |8.5| |127| |125| |-121| |-45| |1380| |540| -  
28.7| |-10.6| |1351.3| 529.4|

|73| 24.3| |4.6| |9.1| |7.0| |3.4| |5.8| |125| |128| |-57| |+12| |1440| |240| |-13.5|

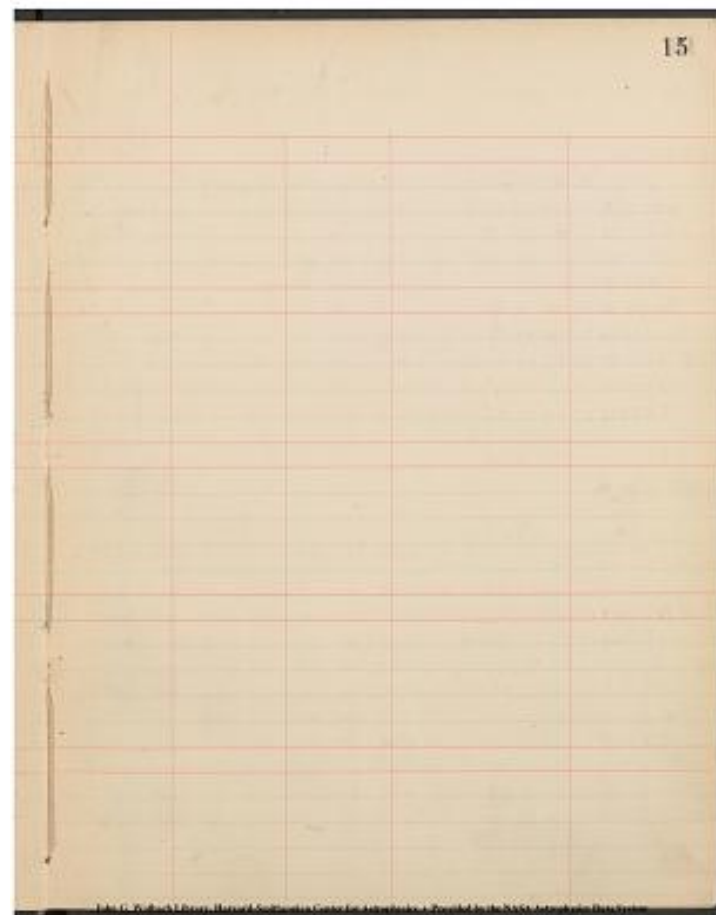


+2.8| |1426.5| 242.8|

|1.00 P| |11.6| |22.7| |5.3| |9.6| |7.3| |3.0|126 |126  
|+20| |+66| 660| |1320| |+4.7|+15.6| |664.7|1335.6|

|1011 || |1014 || |8 8|

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Feb. 8, 1904  
 1.00 ? to determine ? of Phoebe.  
 D01296 Cont.  
 | x | y | A. | B. | C. | D. | a+c | B+D | c-a | B-D | x\*60 | y\*60 | x237 | x236 |  
 | 18 | 33.6 | 38.3 | 3.9 | 3.0 | 8.8 | 9.7 | 127 | 127 | +49 | -67 | 1980 | 2280 | +11.6 | -  
 15.8 | 1991.6 | 2264.2 |  
 | ? | 128.8  
 14.6 | 1.9 | 7.0 | 10.9 | 5.8 | 128 | 128 | +90 | +12 | 1680 | 840 | +21.3 | +2.8 | 1691.3 | 842.  
 8 |.

85.33 71522.6 2.0 10.110.9 17 129 + 75 -89 1980 900 + 17.8 -21.0  
 1997.8 879.0

&.35.8 14.5 Bright 2100 840

16.39.2 14.6 10.9 7.0 1.8 5.7 127 127 -91 + 13 2340 840 -21.6 +3.1  
 2318.4 843.1

20 396 ...0 50 127 7.8 12.8 128 288 +28 -01 2340 1980 +66 -2 23466  
 1949.8

ericit off  
 1937.4 39.3 7.1 3.5 5.6 (9.2) - 127 (127) - -15 - -57 2220 2340 -36 -163  
 -2216.4 23265

2.145.9 35.2 1.1 1.0 11.5 126 125 + 104-105 2700 2100 +24.6 - 24.8  
 2724.6 2275.2

P.11.6 22.8 5.5 9.5 7.2 3.1 127 126 +17 +64 660 1320 +4.0 +15.1 664.0  
 1335.1

1017/8 1017/8  
 126.75 126.94 5

c-a b-d

D 103021 -a 3824 a+c b+d c-a b-d X x 60 Yx60 x 236 x 236

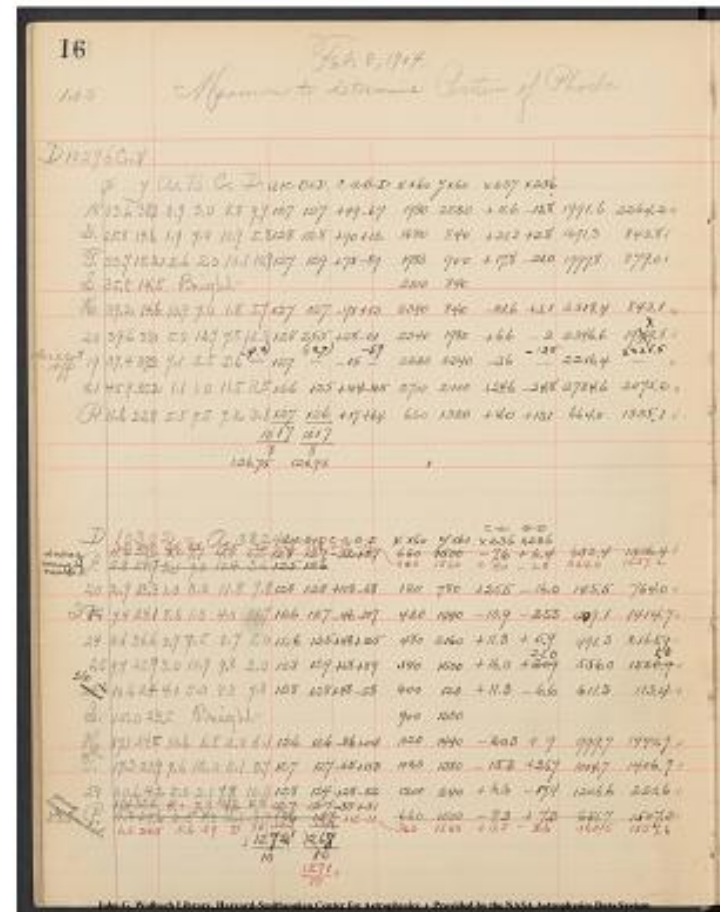
6.5 26.4 5.5 5.8 102 7.0 127 128 +17 -12 360 1560 + 4.0 - 2.8 364.0  
 1557.2

20 2.9 13.3 1.0 3.0 11.8 9.8 12.8 128+108-68 120 780 +25.5 -16.0  
 145.5 764.0

7.4 24.1 806 1.0 4.0 11.7 126 127 -46 -107 420 1440 -10.9 - 25.3 409.1  
 1414.7

24 8.6 36.6 3.9 7.5 8.7 5.0 12.6 125+48+25 480 2160 +11.3 + 5.9 491.3  
 2165.9

259.7 25.93.0 10.9 9.8 2.0 128 129 +68+89 540 1500 +160 + 21.0  
 556.0 1521.0



2610.6 2.4 4.0 5.0 8.8 7.8 128 128+48 -28 600 120 + 11.5 - 606 611.3  
113.4

&. 15.0 23.5 Bright 900 1380

H. 17.1 24.5 10.6 6.5 2.0 6.1 126 126-86+04 1020 1440 -20.3 +9 999.7  
1440.9

J. 17323.9 9.6 12.0 3.1 0.7 127 127-65+113 1020 1380 - 15.3 +26.7  
1004.7 1406.7

28 2064.2 5.0 2.1 7.8 10.3 128 124 + 28-82 1200 240 + 6.6 -19.4  
1206.6 220.6

6.5 26.5 5.6 5.9 7.1 7.0 127 +15 -11 360 1560 +3.5 -2.6 363.5 1557.6

/1221/10 1271/10

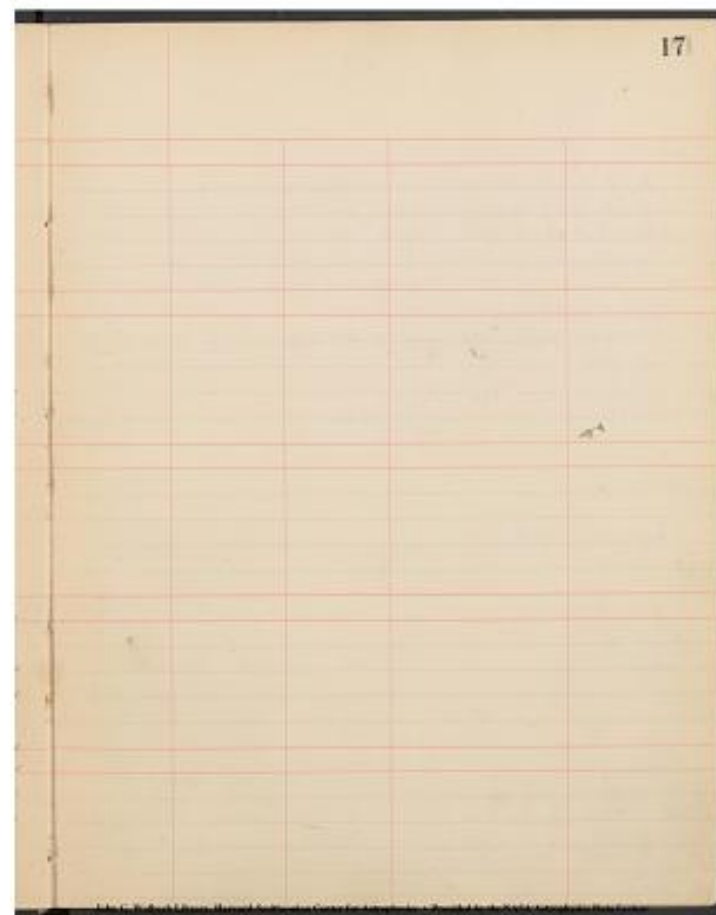
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D10298 = A3794

x y  
S 28.922.3 1680 1320

D10300 = A3821 a B b D a+c B+D C-a B-D Xx60 yx60 x 237 237 x 237  
960 1260  
S 16.721.8

Feb 9, 1904

=A3821

\*D10299 A. | B | C | D | A+C | C+D | C-A | B-D | xx60 | yx60 | x237 |  
x237 | |

wrong image marked | P. ~~[[strikeout]]~~ | 12.6 | 23.6 | 5.1 | 8.9 | 7.7 |  
7.7 25.1 2.4 0.9 10.2 11.9 12.6 128+78-110 420 1500 +18.4 -26.1 438.4  
1473.9

20 3.3 11.7 10.0 9.1 2.6 3.6 126 127 74+55 180 660 -17.5+13.0 162.5  
673.0  
24 8.9 35.1 0.2 1.0 12.4 11.7 126 127+122-107 480 2100 +28.9-25.4  
508.9 2074.6

378 ~~[[strikethrough]]~~380/3  
382/3

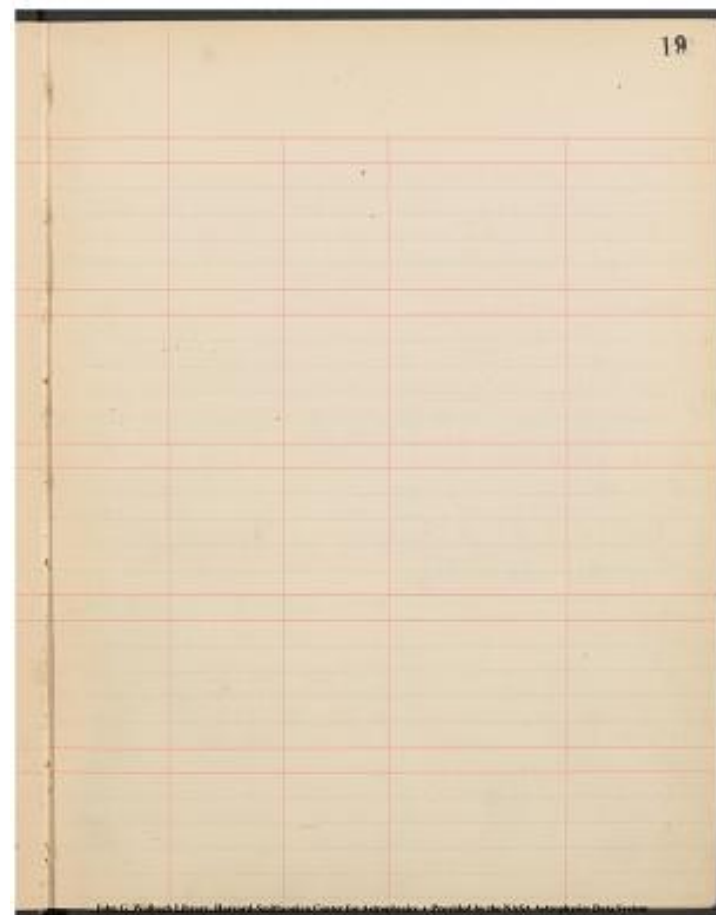
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\*D10299

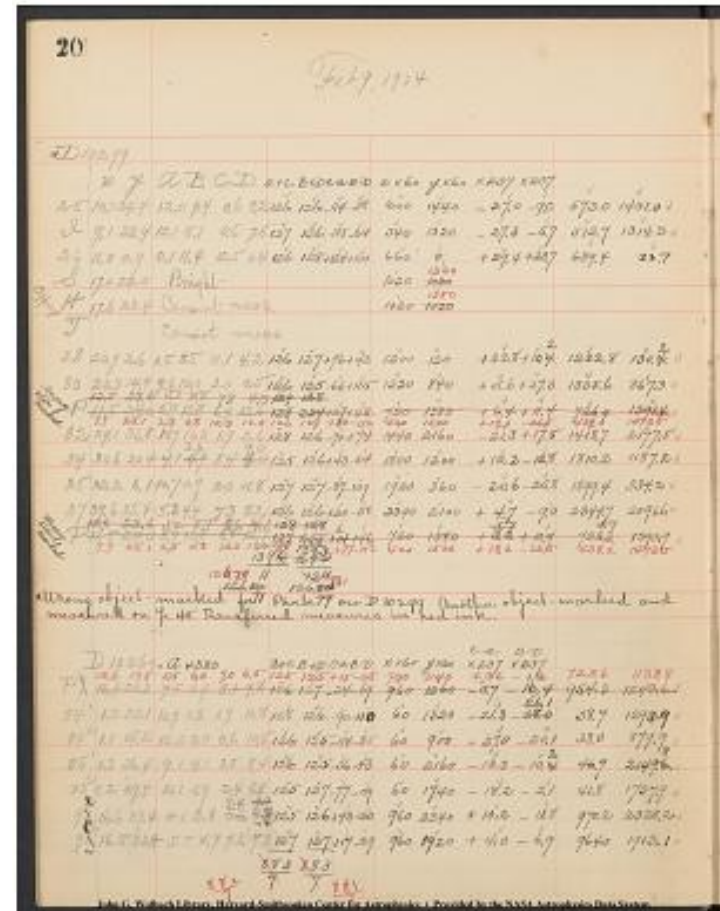
| | x | y | A | B | C | D | a+c | B+D | c-a | B-D | xx60 | yx60 | x237 | x237 |  
-----  
25|10.1|24.4|12.0|4.4|0.6|8.2|126|126|-114|-38|600|1440|-27.0|-  
9.0|573.0|1431.0|

| | 9.1|22.4|12.1|5.1|0.6|7.5|127|126|-115|-24|540|1320|-27.3|-  
5.7|512.7|1314.3|

26|11.0|0.9|0.1|11.4|12.5|1.4|126|128|+124|+100|660|0|+29.4|+23.7|689.  
4|23.7|

S|17.0|22.0|BRIGHT-| | | |1020|~~1020~~ 1020 ~~1020~~  
1320| | | |

APPROX H|17.6|23.4|CANNOT MEAS|1020|~~1020~~ 1020  
|~~1380~~  
T|CANNOT MEAS  
28|20.9|2.6|1.5|8.5|11.1|4.2|126|127|+96|+43|1200|120|+22.8|+10.  
|~~1380~~ 4 |~~1380~~ 2| 1222.8|130. |~~1380~~ 4  
|~~1380~~ 2  
30|22.3|14.9|9.6|12.0|3.0|0.5|12.6|12.5|-  
66|+115|1320|840|+15.6|+27.3|1335.6  
|~~1380~~  
12.5|23.6|5.1|8.8|7.8|4.9|129|128|11.5|24.0|5.9|12.8|6.9|12.6|128|254|12  
7|148|720|1380|+6.4|+11.4|726.4|1391.4 |~~1380~~  
WRONG STAR MARKED P  
7.7 25.1 2.3 0.8 10.3 12.0 126 128+80-112 420 1500 +19.0 -26.5 439.0  
1473.5  
32 24.1 36.8 10.9 10.0 1.9 2.6 128 126-90+74 1440 2160 -21.3+17.5  
1418.7 2177.5  
34 30.6 20.4 4.1 |~~1380~~ 4.9 |~~1380~~ 3.6 8.4  
|~~1380~~ 8.0 |~~1380~~ 9.0 125 126+43-54 1800 1200  
+10.2-12.8 1810.2 1187.2  
35 32.2 6.1 10.70.9 20 11.8 127 127-87-109 1920 360 -20.6-25.8  
1899.4 334.2  
37 39.6 35.4 5.34.4 73 8.2 126 126+20-38 2340 2100 +4.7-9.0 2344.7  
2091.6  
|~~1380~~ 12.6 23.6 52 8.7 7.6 4.1 128 128  
11.5 24.0 5.9 12.8 6.8 12.7 127 255 114 146 720 1380 +3.3 +10.9 723.3  
1390.9 |~~1380~~  
WRONG STAR MARKED P  
7.7 25.1 2.5 0.8 10.2 120 127 128 +77-112 420 1500 +18.2-26.5 438.2  
1473.5  
139|~~1380~~ 4|~~1380~~ 0  
|~~1380~~ 1646|~~1380~~ 1393+77-112 420 1500 +18.2-26.5  
438.2 1473.5  
126.29 11 |~~1380~~ 13|~~1380~~ 11  
|~~1380~~ 126.50|~~1380~~  
126.|~~1380~~ 65|~~1380~~ 79  
\*WRONG OBJECT- MARKED FOR 71 PHOEBE 79 ORR D 10299  
ANOTHER OBJECT-MARKED AND MEASURED ON ( ) 45  
TRANSFERRED MEASURES IN RED INK.



C-A B-D  
 D10269=A4380 A+CB+D C-AB-D XX60 YX60 X237 X237  
 12.6 19.5 5.5 6.0 7.0 6.5 125 125-15-05 720 1140 +36-1.2 723.6 1138.8  
 P~~12.6 19.5 5.5 6.0 7.0 6.5 125 125~~  
 +15 -05 720 1140 +36 -1.2 723.6 ~~16.4 21.3 7.5 2.9 5.1~~  
 9.8 126 127 -24 -69 960 1260 -5.7 -16.4 954.3 1243.6~~12.6 19.5 5.5 6.0 7.0 6.5 125 125~~  
 84 1 1.2 22.1 10.9 0.8 1.9 11.8 128 126-90-110 60 1320 -21.3-  
~~28.0~~ 26.1 38.7 1293.9  
 84 2 1.1 15.2 12.0 2.0 0.6 10.5 126 125-114-85 60 900 -27.0-20.1 33.0  
 879.9  
 85 1 1.3 36.4 9.1 4.1 3.5 84 126 125-56-43 60 2160 -13.3-10.  
~~4~~ 2 46.7 2149.  
 9 ~~6~~ 8  
 85 2 1.2 29.4 10.1 5.9 2.4 6.8 125 127-77-09 60 1740 -18.2 - 2.1 41.8  
 1737.9  
 9 ~~3~~ 2 16.6 39.4 4.1 3.8  
~~5.6~~ 8.4  
~~8.8~~ ~~9.9~~  
 125 126+43-50 960 2340 + 10.2 - 11.8 970.2 2328.2  
 9 ~~3~~ 22 ~~0~~ 2 16.5 32.4 5.5 4.9 7.2 7.8 127  
 127+17-29 960 1920 + 4.0-6.9 964.0 1913.1  
~~883/7~~  
~~883/7~~  
 882/7 881/7

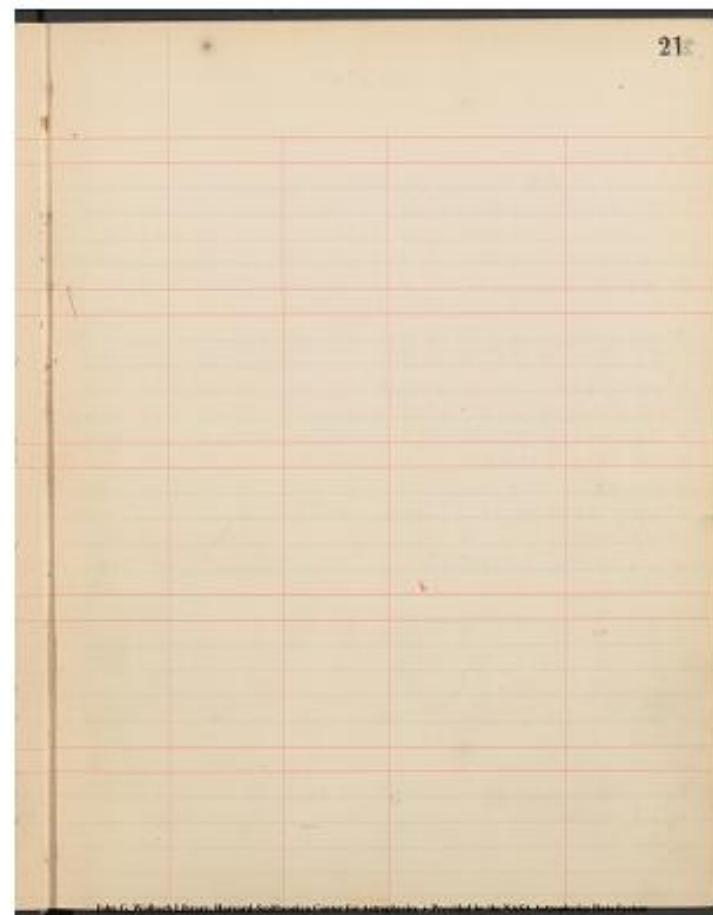
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22

Feb 10, 1904

10.45  
Measures to determine the Position of Phoebe  
\*D10269 Cont.

| x | y | A | B | C | D | a+c|B+D|c-a|B-D|xx60|yx60|x237^[[c-a]]x237^[[B-D]] | |  
|-----|  
|94^[[1]]|19.3|8.0|9.4|12.4|3.0|12.6|127|253|-67|+01|1140|480|-  
15.9|+2|1124|450.2|

|94^[[2]]|19.2|1.1|11.0|1.6|1.9|11.1|129|127|-91|-95|1140|60|-21.6|-  
22.5|1118.4|37.5|

|S^[[2]]|24.2|13.9|10.0|12.0|2.7|0.8|127|128|-73|+112|1440|780|-  
17.3|+26.5|1422.7|806.5|

|I|24.5|14.4|6.0|5.0|6.7|7.5|127|125|+07|-2.5|1440|840|+1.7|-  
5.9|1441.7|834.1|

|97^[[1]]|25.4|38.3|9.0|2.5|3.8|10.1|128|126|-52|-76|1500|2280|-12.3|-  
18.0|1487.7|2262|

|97^[[2]]|25.2|31.3|10.0|3.7|2.6|9.1|126|128|-74|-54|1500|1860|-17.5|-  
12.8|1482.5|1847.2|

|P|12.5|19.5|5.7|6.0|7.0|6.6|127|126|+13|-06|720|1140|+3.1|-  
1.4|72[[~~striketrough~~]]34[[~~striketrough~~]]1|1138.6

|98^[[1]]|26.6|33.3|4.1|2.9|8.5|9.9|126|128|+44|-70|1560|1980|+10.4|-  
16.6|1570.4|1963.4|

|T^[[1]]|25.7|21.9|3.6|11.0|9.0|1.8|126|128|+54|+92|1500|1260|+12.8|+21.  
8|1512.8|1281.8|

|T^[[2]]|25.6|14.9|5.0|12.0|7.6|0.5|126|125|+26|+115|1500|840|+6.2|+27.3  
|1506.2|867.3|

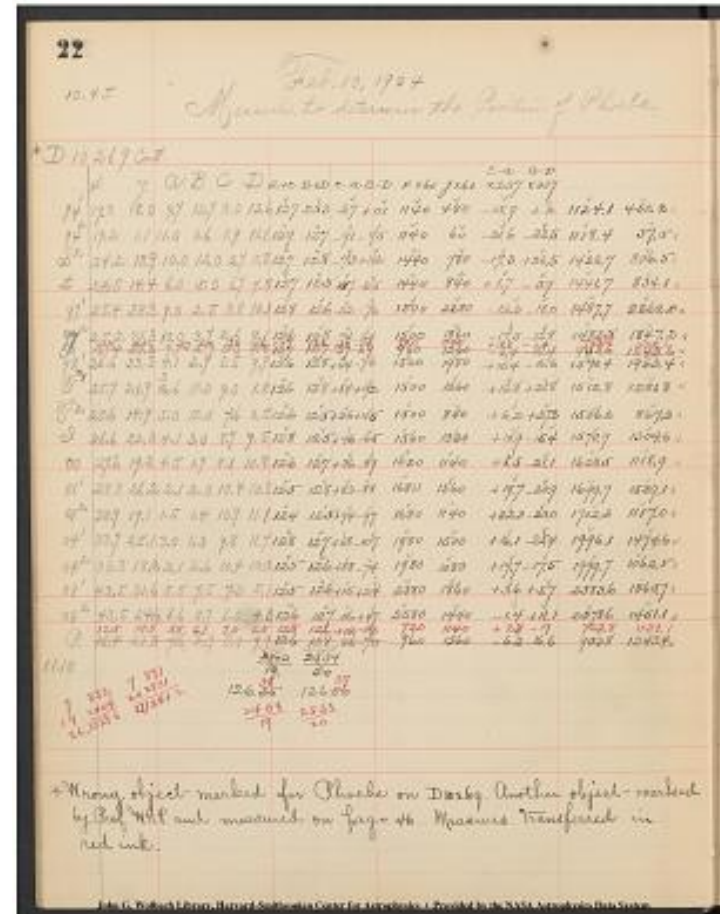
|I|26.6|22.3|4.1|3.0|8.7|9.5|128|125|+46|-65|1560|1320|+10.9|-  
15.4|1570.9|1304.6|

|00|27.6|19.2|4.5|1.9|8.1|10.8|126|127|+36|-89|1620|1140|+8.5|-  
21.1|1628.5|1118.9|

|01^[[1]]|28.8|26.2|2.1|2.0|10.4|10.8|125|128|+83|-88|1680|1560|+19.7|-  
209|1699.7|1539.1|

|01^[[2]]|28.9|19.1|1.5|1.4|10.9|11.1|124|125|+94|-97|1680|1140|+22.3|-  
23.0|1702.3|1117.0|

|04^[[1]]|33.7|25.1|3.0|1.0|9.8|11.7|12.8|12.7|+68|-107|1980|1500|+16.1|-





25.4|1996.1|1474.6|

|04^[[2]]|33.8|18.2|2.1|2.6|10.4|10.0|125|126|+83|-74|1980|1080|+19.7|-  
17.5|1999.7|1062.5|

|08^[[1]]|43.5|31.6|5.5|7.5|7.0|5.1|125|126|+15|+24|2580|1860|+3.6|+5.7|  
2583.6|1865.7|

|08^2|43.5|24.6|6.6|8.4|6.0|4.0|126|127|-06|+47|2580|1440|-  
1.4|11.1|2578.6|1451.1|

|P.|[[STRIKETHROUGH]] 16.4|21.3|4.6|2.9|5.0|9.9|12.6|12.8|-26|-  
70|960|1260|-6.2|16.6|953.8|1243.3 [[/STRIKETHROUGH]]  
12.5|19.5|5.8|6.1|7.0|6.5|12.8|12.6|12.6|+12|-04|720|1140|+2.8|-  
9|722.8|1139.1|

11.10	
1 882	1 881
19 2404	20 2531
-----	-----
263286	203412

2402/19 [[STRIKETHROUGH]] 2534/20 [[STRIKETHROUGH]]  
126.38 12.37  
2404/19 2531/20

\*Wrong object-marked for Phoebe on D10269. Another object-marked  
by Prof. WHP and measured on page 46. Measures transferred in red  
ink.

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11.10

Measure to determine Position of Phoebe

[5 columned table]

| D10284= | A 4495 | | |

| | | c-a B-D |

| t y | A B C D | a+c B+D c-a B-D | x x60 yx60 x238 x237 | |

| P | 10.5 19.4 | 6.0 5.5 6.7 7.2 | 127 127 +07-17 | 600 1140 +1.7 -4.0 |  
601.7 1136.0 |

| 20 | 8.0 23.5 | 12.6 5.9 12.7 6.8 | 253 127 +01-09 | 480 1380 +2 -2.1 |  
450.2 1377.9 |

| 20^2 | 8.2 31.4 | 10.9 4.1 1.8 8.4 | 127 125 -91-43 | 480 1860 -21.7  
10.2 | 458.3 1849.8 |

| 28^1? | 12.8 24.8 | 1.8 11.1 10.9 1.5 | 127 126 +91+96 | 720 1440

+21.7 +22.8 | 741.7 1462.8 |

| 28^2 | 12.9 32.8 | 0.4 10.0 12.2 2.7 | 126 127 +118+73 | 720 1920

+28.0 +17.3 | 748.1 1937.3 |

| 25^1 | 12.4 3.4 | 8.5 8.9 4.1 3.8 | 126 127 -44+51 | 720 180 -10.5

+12.1 | 709.5 192.1 |

| 25^2 | 12.5 11.6 | 6.3 7.8 6.2 4.9 | 125 127 -01+29 | 720 660 -2 +6.9

27.5 | 1253.1 1352.5 |

| 35^1 | 21.3 15.2 | 9.6 1.6 3.0 11.0 | 126 126 -66 -94 | 1260 900 -15.7 -

22.3 | 1244.3 877.7 |

| 35^2 | 21.4 23.1 | 7.8 0.5 4.9 12.1 | 127 126 -29 -116 | 1260 1380 -6.9 -

27.5 | 1253.1 877.7 |

| 44^1 | 21.4 23.1 | 7.8 0.5 4.9 12.1 | 127 126 -29 -116 | 1260 1380 -6.9 -

27.5 | 1253.1 877.7 |

| 44^2 | 27.2 34.4 | 0.6 7.0 12.0 5.8 | 126 128 +114 +12 | 1560 1560

+27.1 +2.8 | 1587.1 1562.8 |

| 47^1 | 28.1 14.9 | 11.9 11.8 0.7 0.9 | 126 127 -112 +109 | 1680 840 -

26.7 +25.8 | 1653.3 865.8 |

| 47^2 | 28.2 22.8 | 10.1 10.4 2.5 2.0 | 126 127 -76 +87 | 1680 1320 -

18.1 +20.6 | 1661.9 1340.6 |

P.10.5 19.4 5.6 5.0 6.9 7.7 125 127 +13 -27 600 1140 +3.1 -6.4 603.1  
1133.6

J1 30.4 21.3 8.7 2.9 3.9 9.8 126 127 -48 -69 1800 1260 -11.4 -16.4  
1788.6 1243.6

J2 30.3 29.2 8.6 1.9 4.0 10.7 126 126 -46 -88 1800 1740 -10.9 -20.9  
1789.1 1719.1

52(1 30.5 3.4 6.5 4.9 6.1 7.9 126 128 -04 -30 1800 180 -1.0 -7.1 1799.0  
172.9

529squared0 30.6 11.3 5.0 3.6 7.6 9.0 126 126 +26 -54 1800 660 +6.2  
-12.8 1806.2 647.2

56 33.1 11.4 11.1 4.5 1.4 8.1125 126 -91-36 1980 660 -23.1 -8.5 1986.9

24  
Feb 10, 1904  
Measure to determine Position of Phoebe

D10284 = A 4495

	A	B	C	D	a+c	B+D	c-a	B-D	x	x60	y	y60	x238	x237
01	8.2	31.4	10.9	4.1	1.8	8.4	127	125	-91-43	480	1860	-21.7	10.2	458.3 1849.8
10	12.8	24.8	1.8	11.1	10.9	1.5	127	126	+91+96	720	1440	+21.7	+22.8	741.7 1462.8
11	12.9	32.8	0.4	10.0	12.2	2.7	126	127	+118+73	720	1920	+28.0	+17.3	748.1 1937.3
12	12.4	3.4	8.5	8.9	4.1	3.8	126	127	-44+51	720	180	-10.5	+12.1	709.5 192.1
13	12.5	11.6	6.3	7.8	6.2	4.9	125	127	-01+29	720	660	-2	+6.9	1253.1 1352.5
14	21.3	15.2	9.6	1.6	3.0	11.0	126	126	-66 -94	1260	900	-15.7	-22.3	1244.3 877.7
15	21.4	23.1	7.8	0.5	4.9	12.1	127	126	-29 -116	1260	1380	-6.9	-27.5	1253.1 877.7
16	21.4	23.1	7.8	0.5	4.9	12.1	127	126	-29 -116	1260	1380	-6.9	-27.5	1253.1 877.7
17	27.2	34.4	0.6	7.0	12.0	5.8	126	128	+114 +12	1560	1560	+27.1	+2.8	1587.1 1562.8
18	28.1	14.9	11.9	11.8	0.7	0.9	126	127	-112 +109	1680	840	-26.7	+25.8	1653.3 865.8
19	28.2	22.8	10.1	10.4	2.5	2.0	126	127	-76 +87	1680	1320	-18.1	+20.6	1661.9 1340.6
20	10.5	19.4	5.6	5.0	6.9	7.7	125	127	+13 -27	600	1140	+3.1	-6.4	603.1 1133.6

52(1 30.5 3.4 6.5 4.9 6.1 7.9 126 128 -04 -30 1800 180 -1.0 -7.1 1799.0 172.9

529squared0 30.6 11.3 5.0 3.6 7.6 9.0 126 126 +26 -54 1800 660 +6.2 -12.8 1806.2 647.2

56 33.1 11.4 11.1 4.5 1.4 8.1125 126 -91-36 1980 660 -23.1 -8.5 1986.9

651.5

5.6(squared) 33.3 19.3 9.5 3.4 3.0 9.2125 126 -6.5 -58 1980 1140 -15.5  
--13.7 1964.5 1126.3

61 36.4 23.4 8.1 4.0 4.5 8.6 126 126 -36 -46 2160 1380 -8.6 -10.9  
2151.4 1369.1

61(squared) 365 31.2 6.5 2.8 6.1 9.9 126 127 -04 -71 2160 1860 -1.0 -  
16.8 2159.0 1843.2

J 39.1 18.2 10.0 2.5 2.7 10.0127 125 -73 -75 2340 1080 -17.4 -17.8  
23226 10622

J(squared) 39.1 26.3 11.9 3.1 1.0 9.5 129 126 -169 -64 2340 1560 -25.9  
-15.2 23141.1 1544.8 11.45

3153/25 3036/24

Difference to measure

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56(squared) 33.3 19.3 9.5 3.4 3.0 9.2125 126 --65 -58 1900 1140 -15.5 -  
13.7 1964.5 1126.3

61 36.4 23.4 8.1 4.0 4.5 8.6 126 126 -36 -46 2160 1380 -8.6 -10.9  
2151.4 1369.1

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[[no input]]

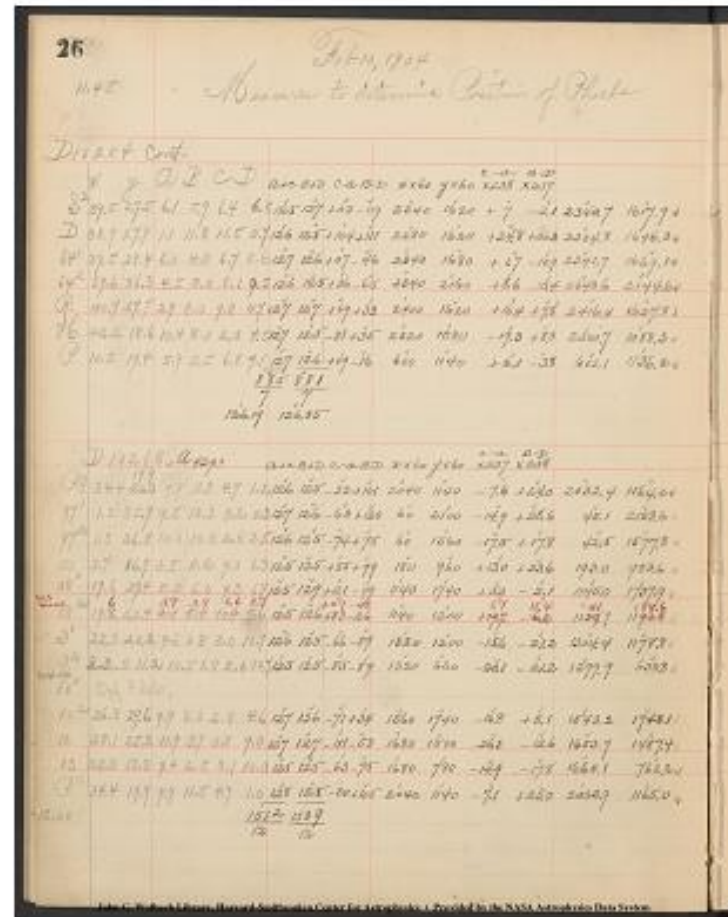
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Polar Sequence #29  
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[26]  
 Feb 10, 1904  
 11.45 | [[?]] to determine [[?]] of [[?]]  
 D10284 Cont. | c-a B-D |  
 | x y | ABCD | a+e B+D c-a B-D | xx60 yx60 x238 x237 | |  
 S^[[2]]|39.5 27.5|6.1 5.9 6.4 6.8|125^ 127^ 125^ + 03^ 125^ - 09^|2340^ 1620^ 1620^ + 7^ 1620^ - 2.1^ 1620^ 2340.7^ 1617.9^ |  
 D|38.9 27.9|1.1 11.8 11.5 0.7|126^ 125^ + 104^ 1620^ + 111^ 1620^ 1620^ + 24.8^ 1620^ + 26.3^ 2304.8^ 1646.3^ |  
 64^|39.5 28.4|6.0 4.0 6.7 8.6|127^ 126^ + 07^ 1620^ - 46^ 1620^ 1680^ + 1.7^ 1620^ - 10.9^ 2341.7^ 1669.1^ |  
 64^|2^|39.6 36.3|4.5 3.0 8.1 9.5|126^ 125^ + 36^ 65^ 2340^ 2160^ + 8.6^ 1620^ - 15.4^ 2348.6^ 2144.6^ |  
 R|40.7 27.7|2.9 8.0 9.8 4.7|127^ 127^ + 69^ 1620^ + 33^ 2400^ 1620^ + 16.4^ 1620^ + 7.8^ 2416.4^ 1627.8^ |  
 H|42.2 18.6|10.4 8.0 2.3 4.5|127^ 125^ - 81^ 1620^ + 35^ 2520^ 1080^ - 19.3^ 1620^ + 8.3^ 2500.7^ 1088.3^ |  
 P|10.5 19.4|5.9 5.5 6.8 7.1|127^ 127^ + 126^ 126^ + 09^ 1620^ - 16^ 1600^ 1140^ + 2.1^ 1620^ - 3.8^ 1602.1^ 1136.2^ |  
 126.19^ 126.35^ |  
 126.19^ 126.35^ |

c-a|B-D|  
 | D1026|8.A4293|a+c B+D c-a B-D|xx60 yx60 x237 x238| |  
 P.?[34.4 19.9 |20.0|7.9 11.3 4.7  
 1.2|126^ 125^ - 32^ 1620^ + 101^ 2040^ 1140^ - 7.6^ 1620^ + 24.0^ 2032.4^ 1164.0^ |  
 97^|1.3 35.9|9.5 12.3 3.2 0.3|127^ 126^ - 63^ 1620^ + 120^ 160^ 2100^ - 14.9^ 1620^ + 28.6^ 45.1^ 2128.6^ |  
 97^|2^|1.3 26.8|10.0 10.0 2.6 2.5|126^ 125^ - 74^ 1620^ + 75^ 160^ 1560^ - 17.5^ 1620^ + 17.8^ 42.5^ 1577.8^ |  
 00|3.7 16.9|3.5 11.2 9.0 1.3|125^ 125^ + 55^ 1620^ + 99^ 180^ 960^ + 13.0^ 1620^ + 23.6^ 193.0 983.6 |  
 08^|19.6 29.4|5.2 6.0 7.3 6.9|125^ 129^ + 21^ 1620^ - 09^ 1140^ 1740^ + 5.0^ 1620^ - 2.1^ 1145.0^ 1737.9^ |  
 W.S |[[?]] 08^2|19.6|8^|8^|20.4|5.9  
 5.9  
 5.0  
 10.4|6.6 7.6^|125^ 126^ + 83^ 1620^ - 26^ 1620^ + 07^ - 48^ 1140^ 1200^ + 6.2^ 1620^ - 11.4^ 111^ 59^ 41.7^ |  
 1188.6|93.8|122.3 20.2|9.6 1.8 3.0 10.7|126^ 125^ - 66^ 1620^ - 89^ 1320^ 1200^ - 15.6^ 1620^ - 21.2^ 1304.4^ 1178.8^ |  
 1200^ - 15.6^ 1620^ - 21.2^ 1304.4^ 1178.8^ |  
 1200^ - 15.6^ 1620^ - 21.2^ 1304.4^ 1178.8^ |  
 89^ 1320^ 660^ 660^ - 20.1^ 1620^ - 21.2^ 1299.9^ 638.8^ |  
 10^|Off Plate.  
 10^|26.3 29.6|9.9 8.0 2.8 4.6|127^ 126^ - 71^ 1620^ + 34^ 1560^ 1740^ - 16.8^ 1620^ + 8.1^ 1543.2^ 1748.1^ |  
 12|28.1 25.3|11.9 3.7 0.8 9.0|127^ 127^ - 111^ 1620^ - 53^ 1680^ 1500^ - 26.3^ 1620^ - 12.6^ 1653.7^ 1487.4^ |  
 13|28.3 13.3|9.4 2.5 3.1 10.0|125^ 125^ - 63^ 1620^ - 75^ 1680^ 780^ - 14.9^ 1620^ - 17.8^ 1665.1^ 762.2^ |  
 P|34.4 19.9|7.9 11.5 4.9 1.0|128^ 128^ + 125^ 125^ - 30^ 1620^ + 105^ 2040^ 1140^ - 7.1^ 1620^ + 25.0^ 2032.9^ 1165.0^ |  
 12.00 | 1512^ 1509^ |  
 12|12|

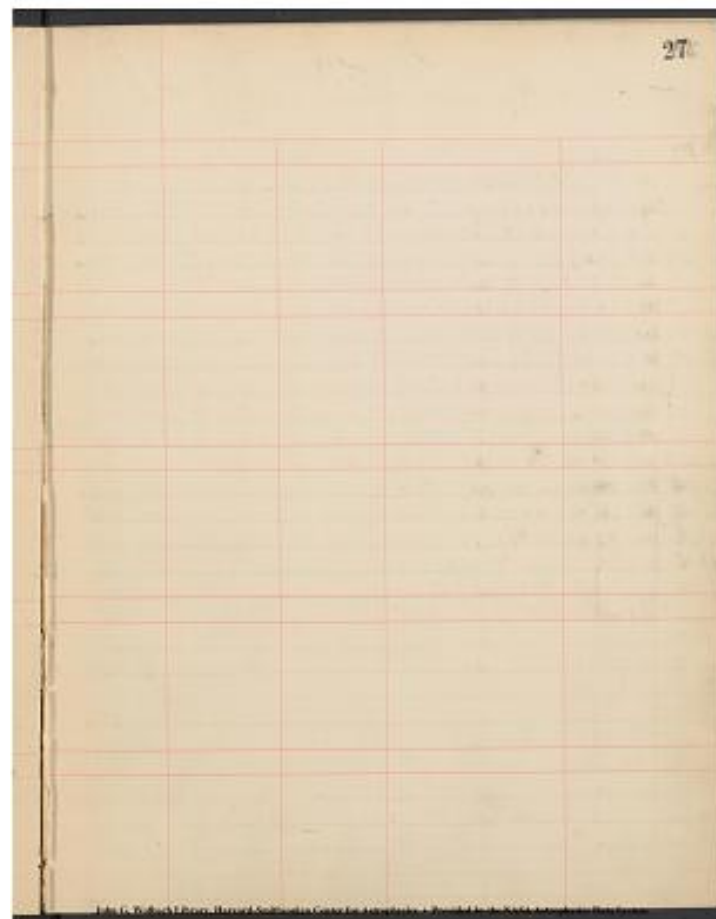


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27

[[no input]]



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28

Feb. 12, 1904

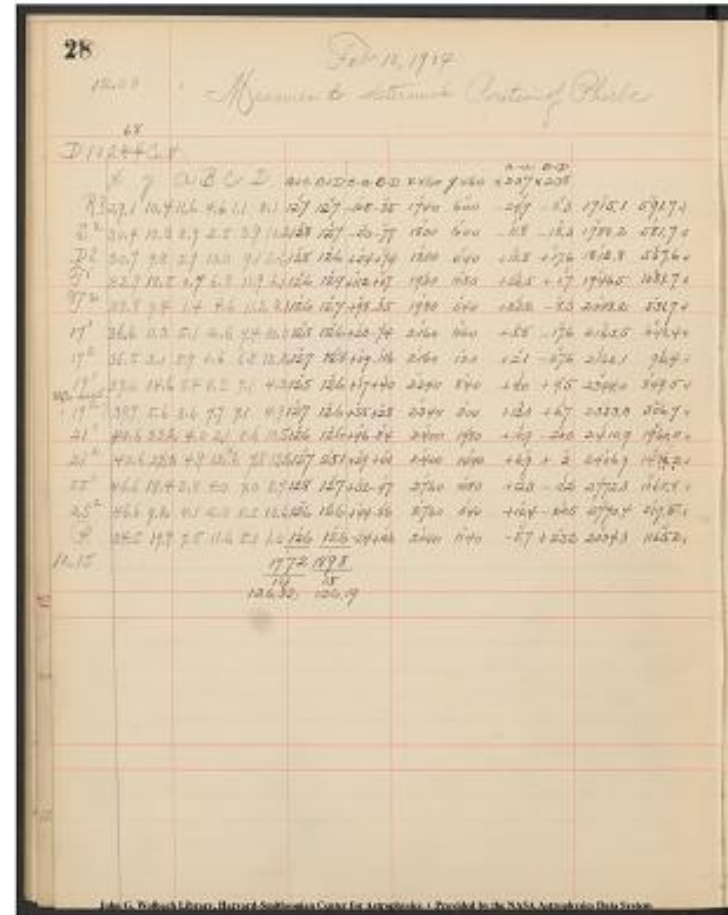
12.00 Measure to determine Position of Phoebe

D10268~~[[strikethrough]]84[[/strikethrough]]~~

[[17 column table]]

	x	y	A	B	C	D	A+C	B+D	C-A	B-D	xx60	yx60	x237 <sup>A</sup> [[C-A]]	x238 <sup>A</sup> [[B-D]]
R?	29.1	10.4	11.6	4.6	1.1	8.1	127	127	-105	-35	1740			
600	-24.9	-8.3	1715.1	591.7										
S <sup>A</sup> [[2]]	30.4	10.3	8.9	2.5	3.9	10.21	128	127	-50	-77	1800			
600	-11.8	-18.3	1788.2	581.7										
D?	30.7	9.8	3.7	10.0	9.1	2.6	128	126	+54	+74	1800	540		
	+12.8	+17.6	1812.8	557.6										
T <sup>A</sup> [[1]]	32.9	18.5	0.7	6.8	11.9	6.1	126	129	+112	+07	1920			
1080	+26.5	+1.7	1946.5	1081.7										
T <sup>A</sup> [[2]]	33.8	9.4	1.4	4.6	11.2	8.1	126	127	+98	-35	1980			
540	+23.3	-8.3	2003.2	531.7										
17 <sup>A</sup> [[1]]	36.6	11.3	5.1	2.6	7.4	10.0	125	126	+23	-74	2160			
660	+5.5	-17.6	2165.5	642.4										
17 <sup>A</sup> [[2]]	36.5	2.1	5.9	0.6	6.8	12.2	127	128	+09	-116	2160			
120	+2.1	-27.6	2162.1	92.4										
19 <sup>A</sup> [[1]]	39.6	14.6	5.4	8.3	7.1	4.3	125	126	+17	+40	2340			
840	+4.0	+9.5	2344.0	849.5										
19 <sup>A</sup> [[2]]?	39.7	5.6	3.6	7.7	9.1	4.9	127	126	+55	+28	2340			
300	+13.0	+6.7	2353.0	306.7										
21 <sup>A</sup> [[1]]	40.6	33.2	4.0	2.1	8.6	10.5	126	126	+46	-84	2400			
1980	+10.9	-20.0	2410.9	1960.0										
21 <sup>A</sup> [[2]]	40.6	24.0	4.9	12.6	7.8	12.5	127	251	+29	+01				
2400	1440	+6.9	+2	2406.9	14[[strikethrough]]10[[/strikethrough]]	2								
25 <sup>A</sup> [[1]]	46.6	18.4	3.8	4.0	9.0	8.7	128	127	+52	-47	2760			
1080	+12.3	-11.2	2772.3	1068.8										
25 <sup>A</sup> [[2]]	46.6	9.2	4.1	2.0	8.5	10.6	126	126	+44	-86	2760			
540	+10.4	-20.5	2770.4	519.5										
P	34.5	19.9	7.5	11.6	5.1	1.0	126							
126							-24	+106	2040	1140	-5.7	+25.2		
2034.3														
1165.2														

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29

[[no input]]



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30

Feb. 12, 1904

12.20 Measure to determine Position of Phoebe.

D10309 = A3308

c-a B-D

[[nine column table]]

| x | y | A | B | C | D | a+c | B+D | c-a | B-D | xx60 | yx60 | x298 | x298 |

|-----|  
P |89.1|29.6|9.9|6.7|0.1|3.4|100|101|-98|+33|5340|1740|-  
29.2|+9.8|5310.8|1749.8|  
83|2.6|81.4|2.9|4.0|4.1|6.0|100|100|+42|-20|120|4860|+12.5|-  
6.0|132.5|4854.0|  
82|2.6|28.3|2.9|2.1|4.1|8.0|100|101|+42|-59|120|1680|+12.5|-  
17.6|132.5|1662.4|  
22|1.2|11.6|9.0|7.1|1.1|0.2|9|100|100|-80|+42|60|660|-  
238|+125|36.2|672.5|  
25|12.6|11.6|4.0|6.8|6.0|3.3|100|101|+20|+35|720|660|+60|+10.4|726.0|  
670.4|  
28|24.9|18.5|1.1|5.1|9.0|5.0|101|101|+79|+01|1440|1080|+235|+3|1463.  
5|1080.3|  
31|50.6|24.1|3.0|0.8|7.1|9.2|101|100|+41|-84|3000|1440|+12.2|-  
25.0|3012.2|1415.0|  
85|51.6|52.9|3.2|9.7|6.9|0.4|101|101|+37|+93|3060|3120|+11.0|+27.7|30  
71.0|3147.7|  
P |89.1|29.6|9.9|6.7|0.1|3.5|100|102|-98|+32|5340|1740|-  
29.2|+9.5|5310.8|1749.5|  
32|52.7|14.2|2.0|2.0|8.1|101|101|+61|-61|3120|840|+18.2|-  
18.2|3138.2|821.8|  
33|61.1|15.8|9.6|8.0 |[or 8.1?]|0.5|2.0|101|100|-91|+60|3660|900|-  
27.1|+17.9|3632.9|917.9|  
J |69.0|33.9|10.1|8.0|10.1|2.0|202|100|00|+60|4140|1980|00|+17.9|4410  
0|[[striketrough]] 4140.0 [[/striketrough]]|1997.9|  
H |70.1|34.6|9.2|5.9|0.9|4.1|101|100|-83|+18|4200|2040|-  
24.7|+5.4|4175.3|2045.4|  
T |71.8|33.8|1.1|8.0|9.0|2.1|101|101|+79|+59|4260|1980|+23.5|+17.6|42  
83.5|1997.6|  
S |73.0|35.0| |Bright| | | |4380|2100| | | |  
86|97.3|84.7|7.0|6.9|3.0|3.0|100|99|-40|+39|5820|5040|-  
11.9|+11.6|5808.1|5051.6|  
P |89.1|29.6|10.1|6.6|0.1|3.5|[[underline]]102[[/underline]]|[[underline]]10  
1[[/underline]]|-100|+31|5340|1740|-29.8|+9.2|5310.2|1749.2|

12.40 1711/7=100.65 1609/09=100.56

Feb. 13, 1904

[[# column table]]

|1.30|D10325|[[striketrough]]?|[[/striketrough]]|=A3230|a+c|B+D|c-a|B-  
D|xx60|yx60|x299^|[[c-a]]|x298^|[[B-D]]|

|P|31.2 46.6 7.9 6.0 2.1 4.2|100|102|-58|+18|1860|2760|-

17.3|+5.4|1842.7|2765.4|

822.3 28.6 8.0 7.1 2.1 3.0 101 101 -59+41 120 1680 -17.6 +12.2 102.4

1692.2

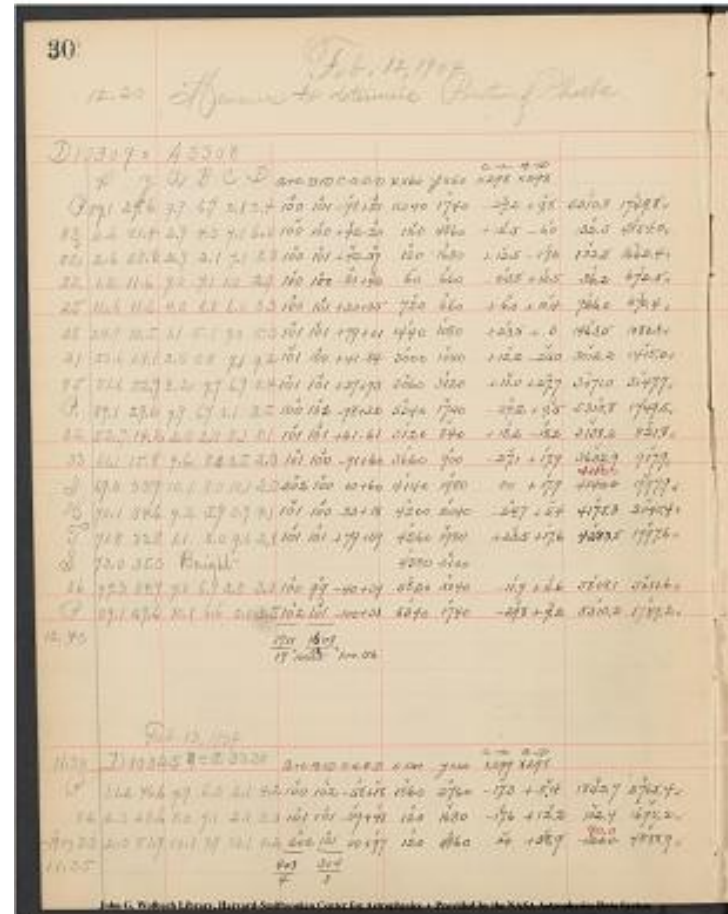
-1959.83 2.0 81.9 10.1 9.9 10.1 0.2 202 101 00+97 120 4860 00 +28.9

[[striketrough]] 120.0 [[/striketrough]] 4888.9

11.35

403 304

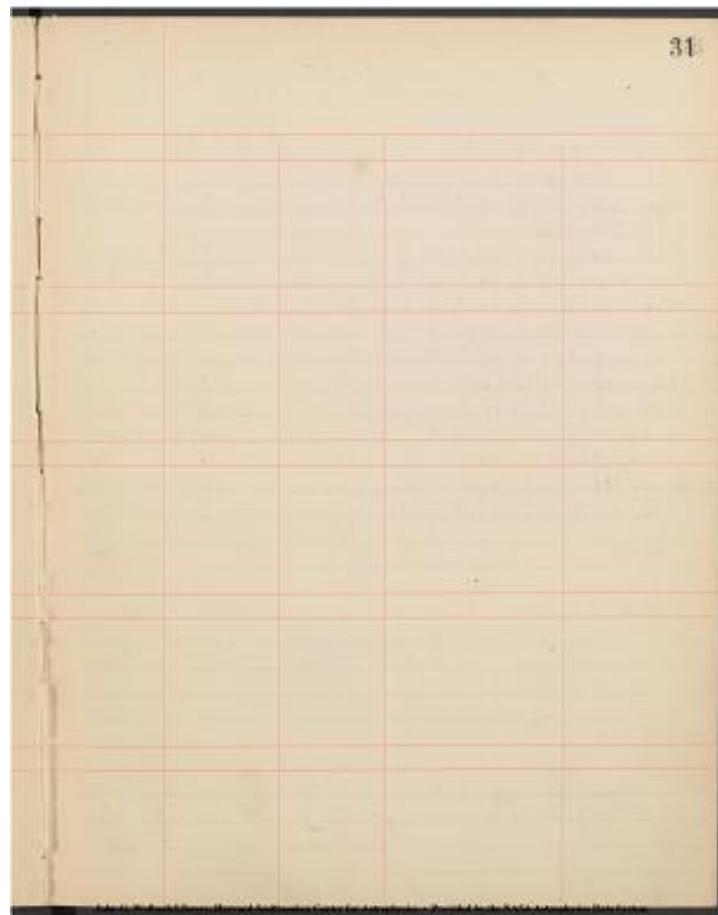
4 3



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31

[[no input]]



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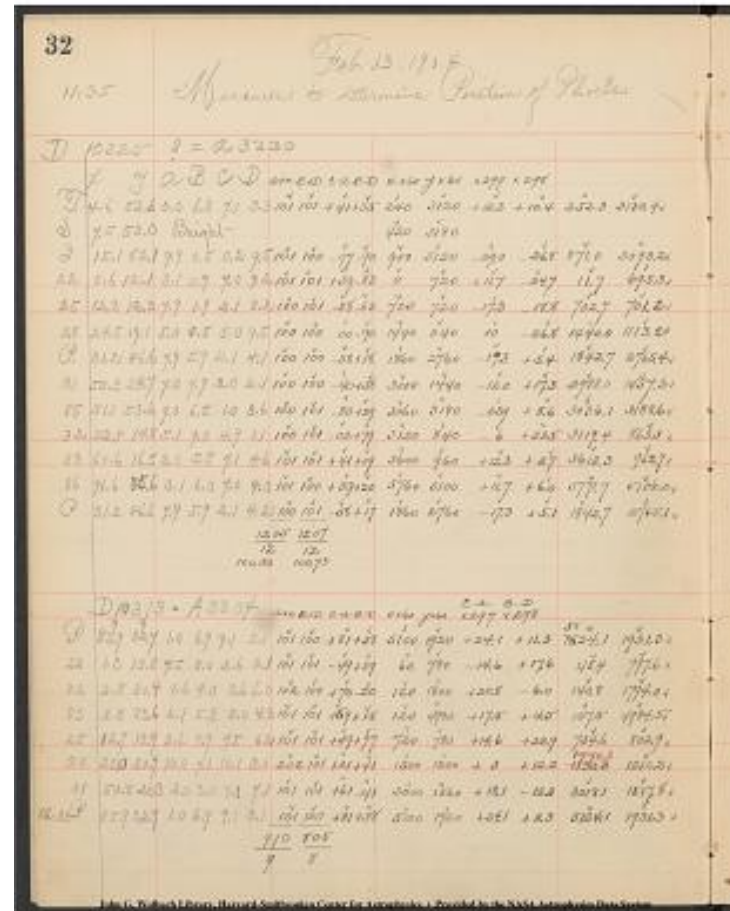
32  
11.35  
Feb. 13. 1904  
Measure to determine Portion of Phoebe.

D 10325 ? = a3230

[[6 COLUMNS]]  
|---|---|---|---|

|x y|A B C D|a+c B+D c-a B-D|Xx60 yx60 x299 x298| |  
T|4.6 52.6|3.0 6.8 7.1 3.3|101 101 +41+35|240 3120 +12.3 +10.4|252.3  
3130.4|  
S|7.5 53.0|Bright-| |420 3180| |  
L|15.1 52.1|9.9 0.5 0.2 9.5|101 100 -97-90|900 3120 -29.0 -26.8|871.0  
3093.2|  
2.2|0.6 12.1|3.1 0.9 7.0 9.2|101 101 +39-83|0 720 +11.7 -24.7|11.7  
695.3|  
2.5|12.3 12.3|7.9 1.9 2.1 8.2|100 101 -58-63|720 720 -17.3 -18.8|702.7  
701.2|  
28|24.5 19.1|5.0 0.5 5.0 9.5|100 100 00-90|1440 1140 00 -26.8|1440.0  
1113.2|  
P|31.2 46.6|7.9 5.9 2.1 4.1|100 100 -58+18|1860 2760 -17.3  
+5.4|1842.7 2765.4|  
31|50.3 24.7|7.0 7.9 3.0 2.1|100 100 -40+58|3000 1440 -12.0  
+17.3|2988.0 1457.31|  
85|51.1 53.6|9.0 6.5 1.0 3.6|100 101 -80+29|3060 3180|  
32|52.4 14.8|5.1 9.0 4.9 1.1|100 101 -02+79|3120 840 -6 +23.5|3119.4  
863.5|  
33|60.6 16.5|3.0 5.5 7.1 4.6|101 101 +41+09|3600 960 +12.3  
+2.7|3612.3 962.7|  
86|96.6 85.6|3.1 6.0 7.0 4.0|101 100 +39+20|5760 5100 +11.7  
+6.0|577.7 5106.0|  
P|31.2 46.6|4.9 5.9 2.1  
4.2|[[underlined]]100[[underlined]]|[[underlined]]101[[underlined]] -58 +17  
[[underlined]]1205[[underlined]]|[[underlined]]1207[[underlined]]12 12  
100.50 100.73|1860 2760 -17.3 +5.1|1842.7 2765.1|

|D10313 = A3304|a+c B+D c-a B-D|Xx60 yx60 c-a x297 B-D x298| |  
P|.85. |~~2~~|~~2~~|~~7~~|1.0 6.9 9.1 3.1|101 100 +81  
+38|5100 1920 +24.1 +11.3|~~15~~|~~5124.1~~  
1931.3|  
22|1.3 13.8|7.5 8.0 2.6 2.1|101 101 -49 +59|60 780 -14.6 +17.6|45.4  
797.6|  
82|2.8 30.4|1.6 4.0 8.6 6.0|102 100 +70-20|12- 1800 +20.8 -6.0|140.8  
1794.0|  
83|2.8 83.6|2.1 5.8 8.0 4.3|101 101 +59 +15|120 4980 +17.5 +4.5|137.5  
4984.5|  
25|12.7 13.9 2.6 8.9 7.5 1.21|101 101 +49 +77|720 780 +14.6  
+22.9|734.6 802.9|  
28|25.0 20.7|10.0 4.1 10.1 3.0|202 101 +01 +41|1500 1200 +3  
+12.2|~~1530.3~~|~~1470.3~~ 1212.2|  
31|50.8 26.3|2.0 3.0 8.1 7.1|101 101 +61 -41|3000 1560 +18.1 -  
12.2|3018.1 1547.8|  
12.05 P|85.9 32.7|1.0 6.9 9.1 2.1|[[underlined]]101[[underlined]]  
[[underlined]]100[[underlined]] +81+38 [[underlined]]910[[underlined]]  
[[underlined]]805[[underlined]] 9 8 |5100 1920 +24.1 +11.3|5124.1  
1931.3|

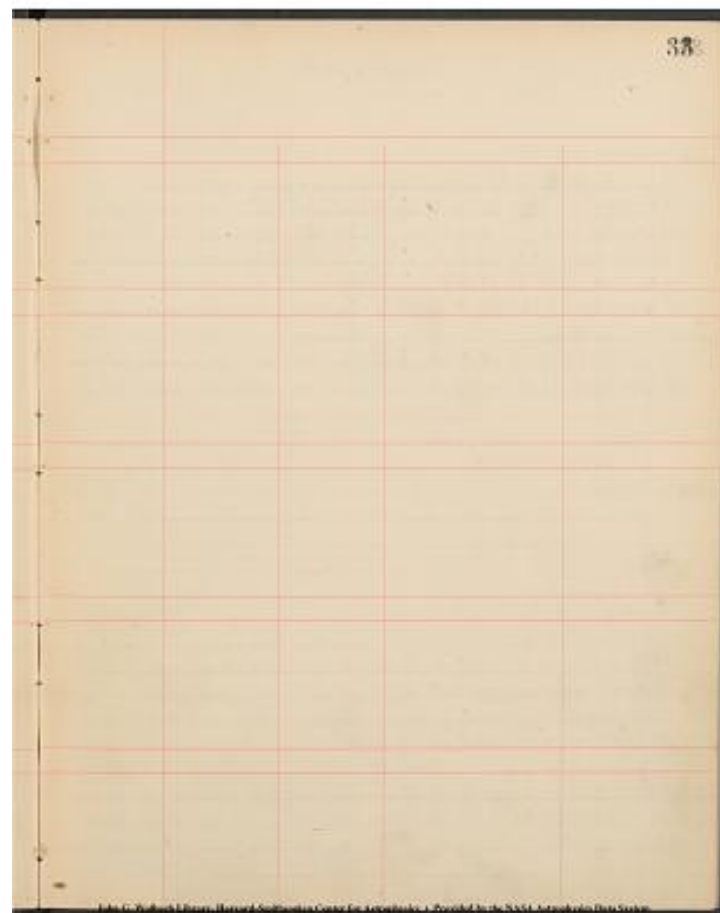


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33

[[no input]]



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34

Feb. 13, 1904

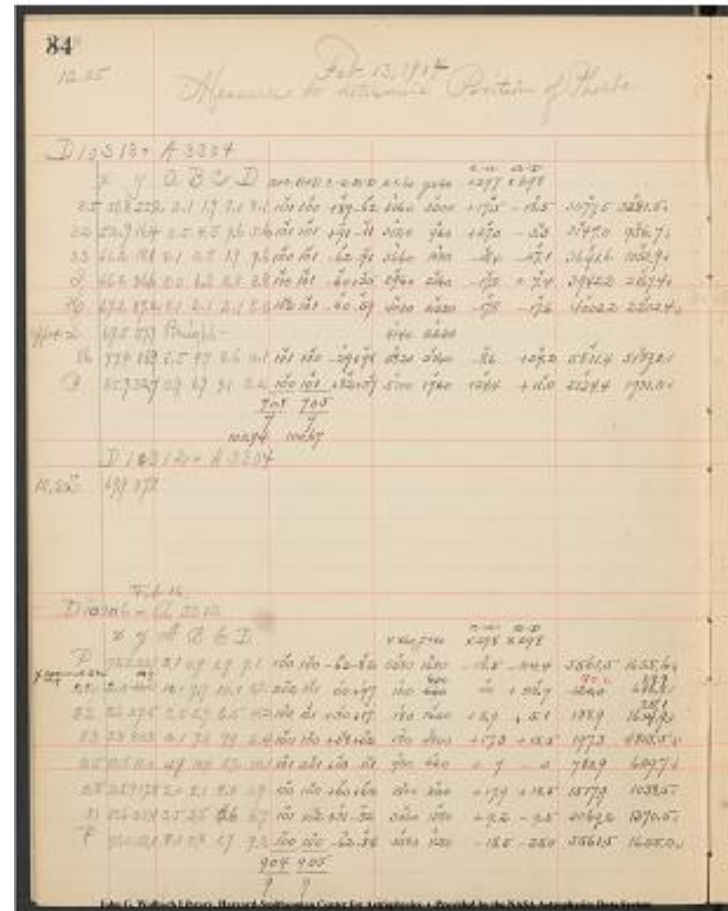
12.05

Measures to determine Position of Phoebe

D10313=A3304 | | |  
| x y | a B c D | a+c B+D c-a B-D | x×60 y×60 ×297^[[c-a]] ×298^[[B-D]] | |  
| 85 | 51.8 55.2 | 2.1 1.9 8.0 8.1 | 101^[[ ] 100^[[ ] +59^[[ ] -62^[[ ] 3060^[[ ]  
3300^[[ ] +17.5^[[ ] -18.5^[[ ] 3077.5^[[ ] 3281.5 |  
| 32 | 52.9 16.4 | 0.5 4.5 9.6 5.6 | 101^[[ ] 101^[[ ] +91^[[ ] -11^[[ ] 3120^[[ ]  
960^[[ ] +27.0^[[ ] -3.3^[[ ] 3147.0^[[ ] 956.7 |  
| 33 | 61.2 18.1 | 8.1 0.5 1.9 9.6 | 100^[[ ] 101^[[ ] -62^[[ ] -91^[[ ] 3660^[[ ]  
1080^[[ ] -18.4^[[ ] -27.1^[[ ] 3641.6^[[ ] 1052.9 |  
| J | 66.2 36.6 | 8.0 6.3 2.0 3.8 | 100^[[ ] 101^[[ ] -60+25^[[ ] 3960^[[ ]  
2160^[[ ] -17.8^[[ ] +7.4^[[ ] 3942.2^[[ ] 2167.4 |  
| H | 67.2 37.2 | 8.1 2.1 8.0 102^[[ ] 101^[[ ] -60^[[ ] -59^[[ ] 4020^[[ ]  
2220^[[ ] -17.8^[[ ] -17.6^[[ ] 4002.2^[[ ] 2202.4^[[ ] |  
| approx S. | 69.5 37.9 | BRIGHT- | 4140^[[ ] 2220^[[ ] | |  
| 86 | 97.4 86.9 | 6.5 9.9 3.6 0.1 | 101^[[ ] 100^[[ ] -29^[[ ] +98^[[ ] 5820^[[ ]  
5160^[[ ] -8.6^[[ ] +29.2^[[ ] 5811.4^[[ ] 5189.2^[[ ] | y  
| O | 85.9 32.7 | 0.9 6.9 9.1 3.2 | 100^[[ ] 101^[[ ] +82^[[ ] +37^[[ ] 5100^[[ ]  
1920^[[ ] +24.4^[[ ] +11.0^[[ ] 5124.4^[[ ] 1931.0  
| 705/7 | 705/7 |  
| 100.94 | 100.67 |  
D10312=A3304 | |  
12.20S. 69.9 37.8

FEB 16,

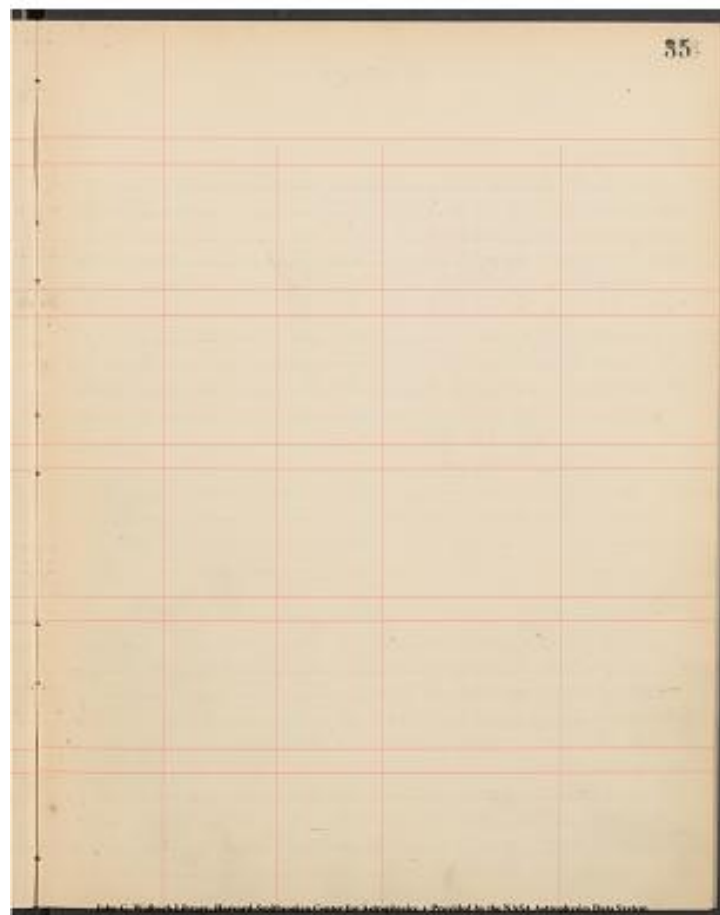
| D10306 = A3312 | |  
| x y | a B C D | | x×60 y×60 | c-a | x298 | B-D | x298 |  
| P | 93.2 28.1 | 8.1 0.9 1.9 9.1 | 100^[[ ] 100^[[ ] -62^[[ ] -82^[[ ]  
5580^[[ ] 1680^[[ ] | -18.5^[[ ] -24.4 | 5561.5 1655.6^[[ ]  
| y assumed to be 10.9 | 22.2 0.1 11.0 | ~~STRIKETHROUGH~~ | 10.9 | 10.1 9.9  
10.1 0.2 | 202^[[ ] 101^[[ ] 00^[[ ] +97^[[ ] 120^[[ ]  
660 | ~~STRIKETHROUGH~~ | 600^[[ ] | 00^[[ ] +28.9^[[ ]  
120 | ~~STRIKETHROUGH~~ | 90.0 688.9 | ~~STRIKETHROUGH~~ | 28.9 |  
| 82 | 3.6 27.5 | 3.5 5.9 6.5 4.2 | 100^[[ ] 101^[[ ] +30^[[ ] +17^[[ ] | 180^[[ ]  
1620^[[ ] +8.9 +5.1 188.9 1614.9 | ~~STRIKETHROUGH~~ | 25.1^[[ ]  
| 83 | 3.8 80.8 | 2.1 7.6 7.9 2.4 | 100^[[ ] 100^[[ ] +58^[[ ] +52^[[ ] | 180^[[ ]  
4800^[[ ] +17.3 +15.5 197.3 4815.5^[[ ] +17.3 +15.5 197.3 4815.5^[[ ]  
| 25 | 13.5 11.0 | 4.9 100 52 10.1 | 101^[[ ] 201^[[ ] +03^[[ ] -01^[[ ]  
780^[[ ] 660^[[ ] | +9 -3 780.9 629.7^[[ ]  
| 28 | 25.8 17.8 | 2.0 8.1 8.0 1.9 | 100^[[ ] 100^[[ ] +60^[[ ] +62^[[ ]  
1500^[[ ] 1020^[[ ] | +17.9 +18.5 1517.9 1038.5^[[ ]  
| 31 | 51.6 23.4 | 3.5 3.5 6.6 6.7 | 101^[[ ] 102^[[ ] +31^[[ ] -32^[[ ] | 3060^[[ ]  
1380^[[ ] +9.2 -9.5 3069.2 1370.5^[[ ]  
| P | 93.2 28.1 | 8.1 0.8 1.9 9.2 | 100^[[ ]            |  
100^[[ ]            | -62^[[ ] -84^[[ ] | 5580^[[ ] 1680^[[ ] | -18.5 -25.0  
5561.5 1655.0^[[ ]  
| 904/9 | 905/9 |



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[[no input]]



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Feb 16, 1904  
Measures of Phoebe  
D 10306 (cont)  
[[17 row table]]

C-A B-D

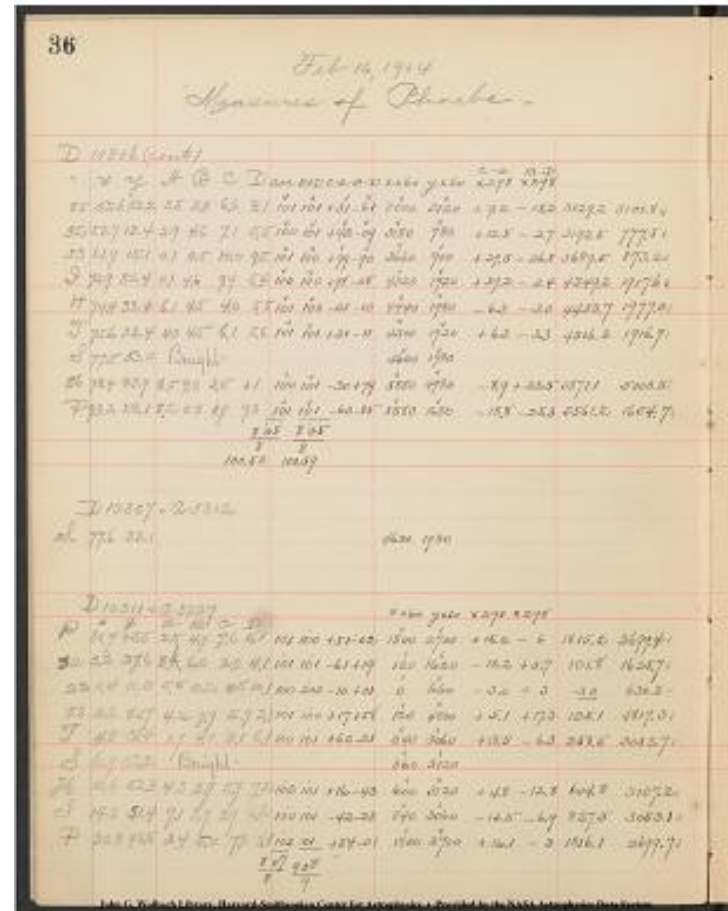
x y A B C D A+C B+D C-A B-D xx60 yx60 x298 x298  
85|52.6|52.2|3.5|2.0|6.6|8.1|[[v' above]]101|[[v' above]]101+31-61|[[v' above]]3120|[[v' above]]3120+6.2-18.2|3129.2|3101.8v.  
32|53.7|13.4|2.9|4.6|7.1|5.5|[[v' above]]100|[[v' above]]101|[[v' above]]42-[[v' above]]09|[[v' above]]3180|[[v' above]]780|+12.5-2.7|3192.5|777.3v.  
33|61.6|15.1|0.1|0.5|10.0|9.5|[[v' above]]101|[[v' above]]100|+[[v' above]]99-[[v' above]]90|[[v' above]]3660|[[v' above]]900|+29.5-26.8|3689.5|873.2v.  
[[?]]F|72.9|32.4|0.1|4.6|9.9|5.4|[[v' above]]100|[[v' above]]100|+98-08|[[v' above]]4320|[[v' above]]1920|+29.2-2.4|4349.2|1917.6v.  
H|74.4|33.4|6.1|4.5|4.0|5.5|[[v' above]]101|[[v' above]]100|-21-10|[[v' above]]4440|[[v' above]]1980|-6.3|-3.0|4433.7|1977.0|[[checkmark]]  
T|75.6|32.4|4.0|4.5|6.1|5.6|[[v' above]]101|[[v' above]]101|+21-11|[[v' above]]4500|[[v' above]]1920|+6.3|-3.3|4506.3|1916.7|[[checkmark]]  
S|77.5|33.0|Bright-  
86|98.4|83.9|6.5|9.0|3.5|1.1|[[v' above]]100|[[v' above]]101|-30+79|[[v' above]]5880|[[v' above]]4980|-8.9+23.5|5871.1|5003.5|[[checkmark]]  
P|93.2|28.1|8.2|08|1.9|9.3|[[v' above]]101|[[v' above]]101|-63-85|[[v' above]]5580|[[v' above]]1680|-18.8-25.3|5561.2|1654.7|[[checkmark]]  
[[v' above]]8 05|[[divided by]]8|[[v' above]]8 05|[[divided by]]8  
100.53|100.59

D10307=a3312  
S.|77.6|33.1

D101311=a3227

P|[[x' above]]30.7|[[y' above]]45.5|[[a' above]]2.5|[[B' above]]4.9|[[C' above]]7.6|[[D' above]]5.1|[[v' above]]101|[[v' above]]100|+51-02|[[x' 60' above]]1800|[[y' 60' above]]2700|[[x' 298' above]]+15.2|[[x' 298' above]]-6|1815.2|2699.4|[[checkmark]]  
S2|2.2|27.6|8.4|6.0|2.0|4.1|[[v' above]]101|[[v' above]]101|-61+19|[[v' above]]120|[[v' above]]1620|-18.2+5.7|101.8|1625.7|[[checkmark]]  
22|0.4|11.0|5.5|10.2|4.5|10.1|[[v' above]]100|[[v' above]]203|-10+01|[[v' above]]0|[[v' above]]660|-3.0|+3|[[v' above]]3.0|630.3|[[checkmark]]  
83|2.6|80.7|4.2|7.9|5.9|2.1|[[v' above]]101|[[v' above]]100|+17+58|[[v' above]]120|[[v' above]]4800|+5.1|+17.3|125.1|4817.3|[[checkmark]]  
T|4.8|51.4|1.9|4.0|8.1|6.1|[[v' above]]100|[[v' above]]101|+62-21|[[v' above]]240|[[v' above]]3060|+18.5|-6.3|258.5|3053.7|[[checkmark]]  
S|6.9|52.2|Bright- [[v' above]]360|[[v' above]]3120  
H|10.6|52.3|4.3|2.9|5.9|7.2|[[v' above]]102|[[v' above]]101|+16-43|[[v' above]]600|[[v' above]]3120|+4.8|-12.8|604.8|3107.2|[[checkmark]]  
I|14.3|51.4|7.1|3.9|29|6.2|[[v' above]]100|[[v' above]]101|-42-23|[[v' above]]840|[[v' above]]3060|-12.5|-6.9|827.5|3053.1|[[checkmark]]  
P|30.8|45.5|2.4|5.0|7.8|5.1|[[v' above]]102|[[v' above]]101|+54-01|[[v' above]]1800|[[v' above]]2700|+16.1|-3|1816.1|2699.7|[[checkmark]]  
[[under 102]]|[[v' above]]807|[[8' under]]|[[under 101]]|[[v' above]]908|[[9' under]]

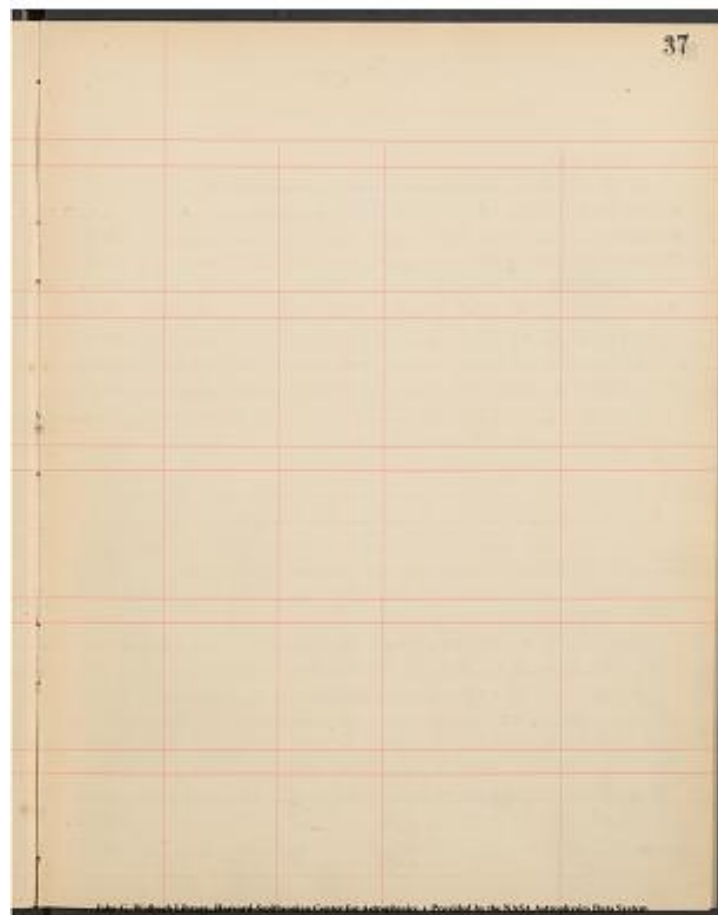
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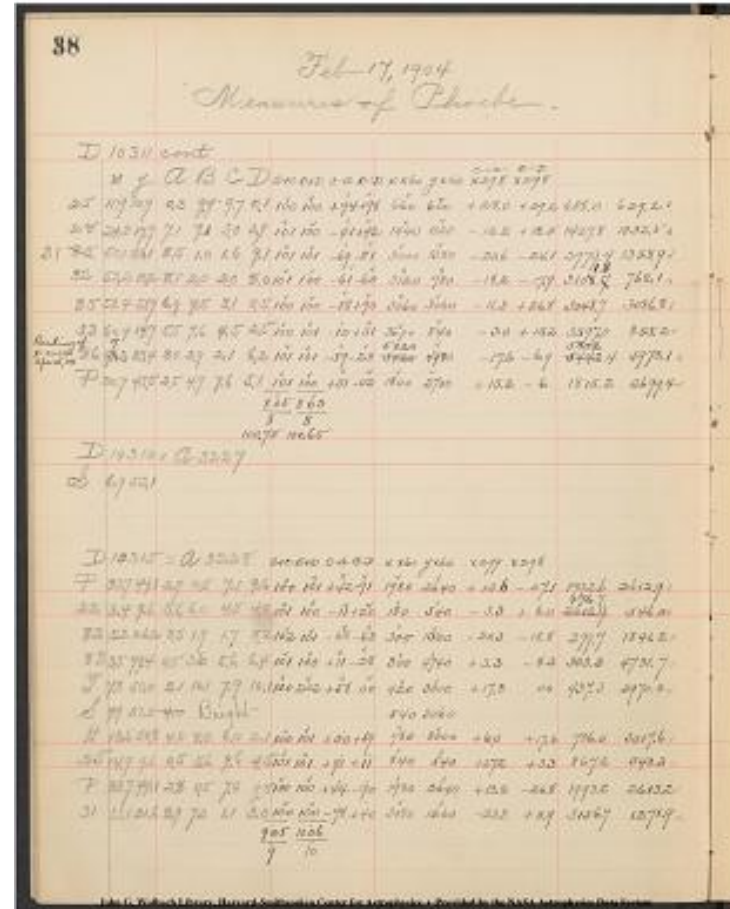
[[no input]]



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Feb 17, 1904  
Measures of Phoebe  
D 10311 cont C-A B-D  
x y A B C D A+C B+D C-A B-D xx60 yx60 x298 x298  
[[symbol]][[symbol]][[symbol]][[symbol]][[symbol]][[symbol]]  
25 11.9 10.9 0.3 9.9 9.7 0.1 100 100 +94+88 660 600 +28.0 +29.2 688.0  
629.2[[symbol]]  
[[symbol]][[symbol]][[symbol]][[symbol]][[symbol]][[symbol]]  
28 24.3 17.7 7.1 7.1 3.0 2.9 101 100 -41+42 1440 1020 -12.2+ 12.5  
1427.8 1032.5[[symbol]]  
[[symbol]][[symbol]][[symbol]][[symbol]][[symbol]][[symbol]]  
31[[strickethrough]]85[[/strickethrough]] 50.1 23.1 8.51.0 1.6 9.1 101 101 -  
69-81 3000 1380 -20.6 -24.1 2979.4 1355.9[[symbol]]  
[[symbol]][[symbol]][[symbol]][[symbol]][[symbol]][[symbol]]  
32 52.2 13.2 8.1 2.0 2.0 8.0 101 100 -61 -60 3120 780 -18.2 -17.9  
310[[strickethrough]]8.7[[/strickethrough]]1.9 762.1 [[symbol]]  
[[symbol]][[symbol]][[symbol]][[symbol]][[symbol]][[symbol]]  
85 51.4 51.9 6.9 9.5 3.1 0.5 100 100 -38+90 3060 3060 -11.3 +26.8  
3048.7 3086.8 [[symbol]]  
[[symbol]][[symbol]][[symbol]][[symbol]][[symbol]][[symbol]]  
33 60.4 14.7 5.5 7.6 4.5 2.5 100 101 -10+51 3600 840 -3.0+15.2 3597.0  
855.2 [[symbol]]  
[[symbol]][[symbol]][[symbol]][[symbol]][[symbol]][[symbol]]  
86 9[[strickethrough]]1[[/strickethrough]]7.2 83.4 8.0 3.9 2.1 6.2 101 101 -  
59-23 [[strickethrough]]5460[[/strickethrough]] 5820 4980 -17.6-6.9  
[[strickethrough]]5442[[/strickethrough]] 5802.4 4973.1[[symbol]]  
[[symbol]][[symbol]][[symbol]][[symbol]][[symbol]][[symbol]]  
P 30.7 45.5 2.5 4.9 7.6 5.1 101 100 +51-02 1800 2700 +15.2-6 1815.2  
2699.4 [[symbol]]  
[[symbol]][[symbol]]  
805 803  
8 8  
100.75 100.65  
D 10310 = a3227  
S 6.9 52.1

D 10315 = a3228 A+C B+D C-A B-D XX60 YX60 X299 X298  
[[symbol]][[symbol]][[symbol]][[symbol]][[symbol]][[symbol]]  
P 33.7 44.1 2.9 0.5 7.1 9.6 100 101 +42-91 1980 2640 +12.6 -27.1  
1992.6 2612.9[[symbol]]  
[[symbol]][[symbol]][[symbol]][[symbol]][[symbol]][[symbol]]  
22 3.4 9.6 5.6 6.0 4.5 4.0 101 100 -11+20 180 540 -3.3 +6.0  
[[strickethrough]]2612.9[[/strickethrough]]176.7 546.0[[symbol]]  
[[symbol]][[symbol]][[symbol]][[symbol]][[symbol]][[symbol]]  
82 5.2 26.2 8.5 1.9 1.7 8.2 102 101 -68-63 300 1560 -20.3 -18.8 279.7  
1541.2 [[symbol]]  
[[symbol]][[symbol]][[symbol]][[symbol]][[symbol]][[symbol]]  
83 5.5 79.4 4.5 3.6 5.6 6.4 101 100 +11-28 300 4740 +3.3 -8.3 303.3  
4731.7[[symbol]]  
[[symbol]][[symbol]][[symbol]][[symbol]][[symbol]][[symbol]]  
F 7.8 50.0 2.1 10.1 7.9 10.1 100 202 +58 00 420 3000 +17.3 00 437.3  
2970.0[[symbol]]  
S 9.9 57.0 [[strickethrough]]4.0[[/strickethrough]] Bright-  
540 3060  
[[symbol]][[symbol]][[symbol]][[symbol]][[symbol]][[symbol]]  
H 13.6 50.8 4.0 8.0 6.0 2.1 100 101 +20+59 780 3000 +60 +17.6 786.0  
3017.6[[symbol]]  
[[symbol]][[symbol]][[symbol]][[symbol]][[symbol]][[symbol]]



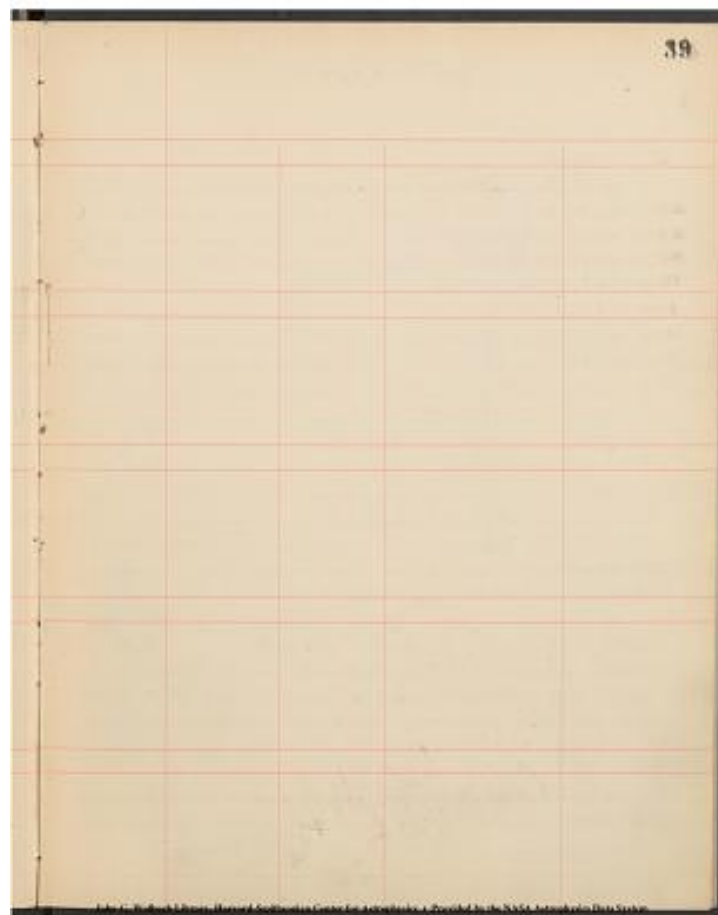
25 14.9 9.6 0.5 5.6 9.6 4.5 101 101 +91+11 840 540 +27.2 +3.3 867.2  
 543.3[[symbol]]  
 [[symbol]][[symbol]][[symbol]][[symbol]][[symbol]][[symbol]]  
 P 33.7 44.1 2.8 0.5 7.2 9.5 100 100 +44-90 1980 2640 +13.2 -26.0  
 1993.2 26132[[symbol]]  
 [[symbol]][[symbol]][[symbol]][[symbol]][[symbol]][[symbol]]  
 31 53.1 21.6 8.9 7.0 1.1 3.0 100 100 -78+40 3180 1260 -23.3 +11.9  
 3156.7 1271.9[[symbol]]  
                   905 1006  
                   9 10  
 [[left margin]] Reading of x [[?]]. [[?]] 15, 04 [[/left margin]]

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[[no input]]



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Feb 17, 1904

D 10315(cont)

x	y	A	B	C	D	a+c	b+d	c-a	B-D	xx60	yx60	x299	x298	
28	27.3	16.3	7.5	3.0	2.6	7.1	101	101	-49	-41	1620	960		
-14.7	-12.2	1605.3	94.78											
32	55.2	11.8	8.2	8.0	1.9	2.1	101	101	-63	+59	3300	660		
-18.8	+17.6	3281.2	677.6											
33	63.4	13.4	5.9	3.5	4.1	6.5	100	100	-18	-30	3780	780		
-5.4	-8.9	3774.6	771.1											
85	54.3	50.6	6.9	5.5	3.1	4.5	100	100	-38	+10	3240	3000		
-11.4	+3.0	3228.6	3003.0											
86	100.1	82.1	8.5	0.5	1.5	9.6	100	101	-70	-91	6000	4920	-20.9	-27.1
5979.1	4892.9													
L	17.3	49.9	6.9	9.4	3.1	0.8	100	102	-38	+86	1020	2940		
-11.4	+25.6	1008.6	2965.6											
P	33.7	44.1	3.0	0.4	7.1	9.7	101	101						
101 | 101 | +41 | -93 | 1980 | 2640 | +12.3 | -27.7 |  
1992.3 | 2612.3 |

703/7 706/7

D10314 100.50 100.7

S 10.0 50.9

Region D10319=A3233( which is badly cracked )

| P | 33.4 | 45.8 | 5.9 | 8.5 | 4.2 | 1.5 | 101 | 100 | -17 | +70 | 1980 | 2700 | -5.1 | +20.9 |  
1974.9 | 2720.9 |

22 1.8 12.2 1.8 2.0 8.2 8.0 100 100+64-60 60 120 +19.1 -17.9 79.1  
702.1

82 3.6 28.7 3.9 7.5 6.1 2.6 100 101 +22+49 180 1680 +66+14.7 186.6  
1694.7

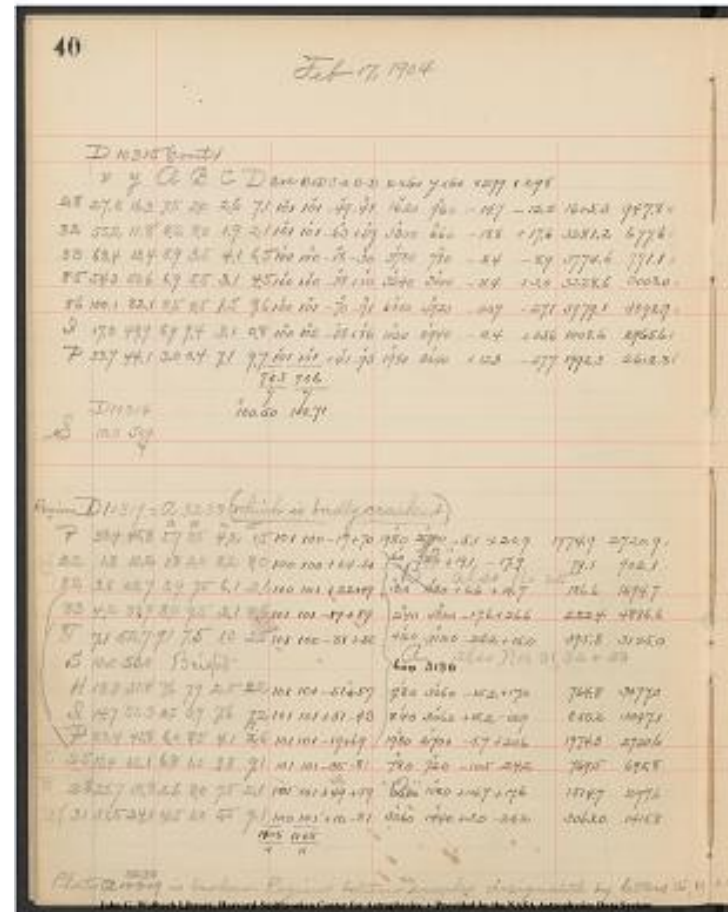
83 4.2 81.9 8.0 9.5 2.1 0.6 101 101 -59+89 240 4860 -17.6+26.6 222.4  
4886.6

T 7.1 52.7 9.1 7.5 1.0 2.5 101 100 -81+50 420 3120 -24.2+15.0 395.8  
3135.0

S 10.0 53.0 Bright 600 3180

H 13.3 51.8 7.6 7.9 2.5 2.2 101 101 -51+57 780 3060 -15.2+17.0 764.8  
3077.0

L 14.7 51.3 2.5 2.9 7.6 7.2 101 101 +51-43 840 3060 +15.2-12.9 855.2  
3047.1



P 33.4 45.8 6.0 8.5 4.1 2.6 101 101 -19+69 1980 2700 -5.7+20.6  
1974.3 2720.6

"C" 25 13.4 12.1 6.8 1.0 3.3 9.1 101 101 -35-81 780 720 -10.5-24.2  
769.5 695.8

"B" 28 25.7 18.8 2.6 8.0 7.5 2.1 101 101 +49+59 1500 1080 +14.7+17.6  
1514.7 1097.6

"A" (31 51.5 24.1 4.5 1.0 5.5 9.1 100 101 +10-81 3060 1440 +3.0-24.2  
3063.0 1415.8

1108/11 1108/11

Plate A 3233 ~~10319~~ is broken. Regions  
between cracks designated by letters "A", B ~~["?"]~~

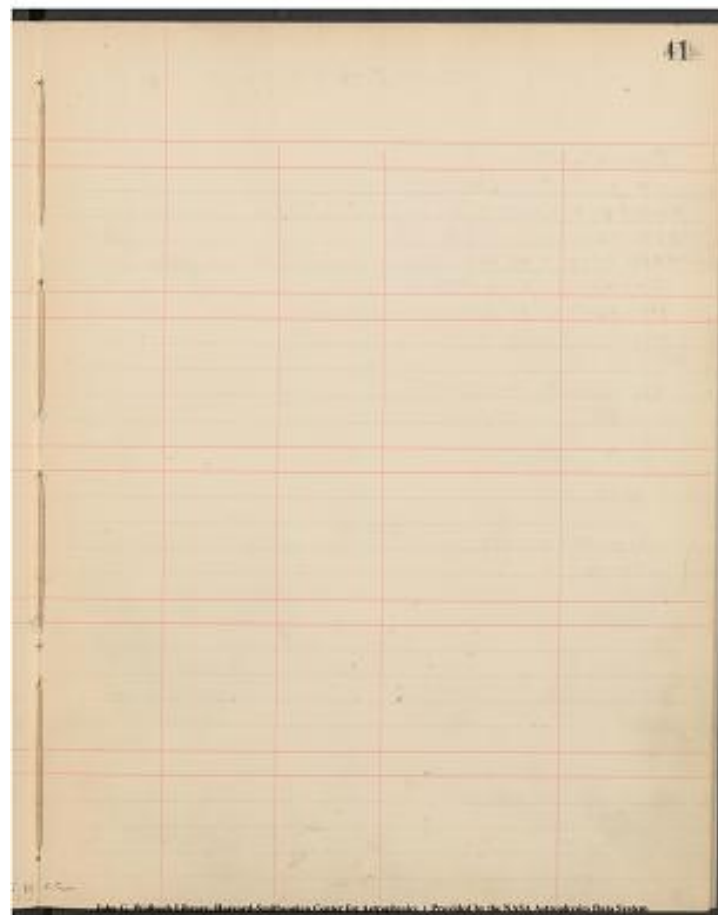
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[[NO INPUT]]

, B, L.e

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Feb 17, 1904

D 10319(cont).  
x y a B C D

"a" (32 53.5 14.2 4.5 2.1 5.5 8.0 100 101 + 10 - 59 3180 840 + 3.0 -  
17.6 3183.0 822.4 8552.8 530 Cannot be measured)

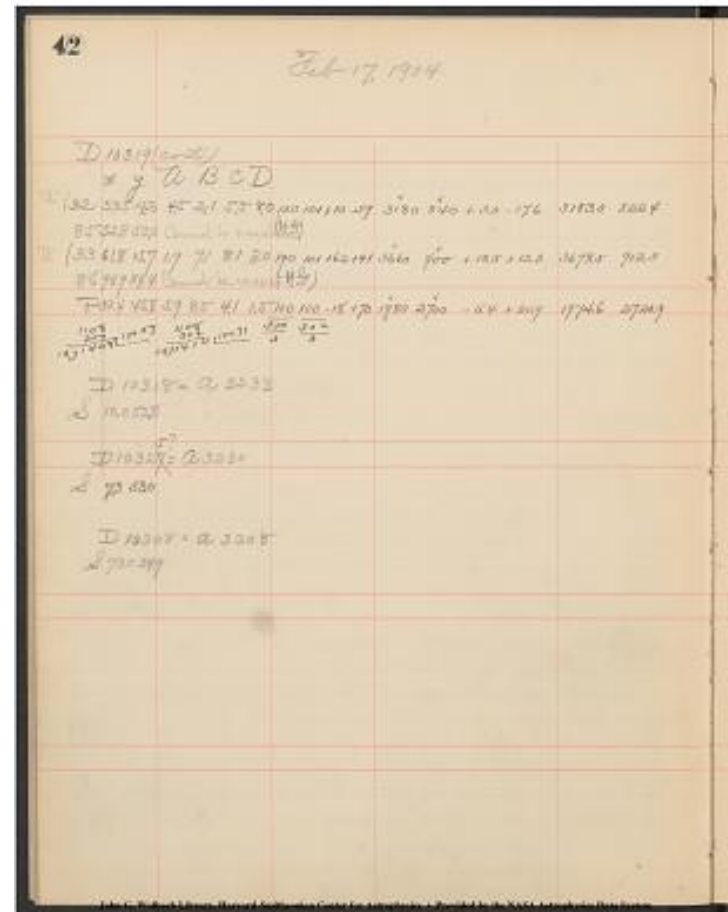
"a" (33 61.8 15.7 1.9 7.1 81 3.0 100 101 + 62 + 41 3660 900 + 18.5 +  
12.3 3678.5 912.3 8698.9 84.4 Cannot be measured). P33.4 45.8 5.9  
8.5 4.1 1.5 100 100-18+70 1980 2700 -5.4+20.9 1974.6 2720.9

D 10318=a 3233  
& 10.0528

D 1032~~[[strikethrough]]~~ 7 ~~[[strikethrough]]~~ 5? = a 3230  
& 7.3 530

D 10308=a 3308  
& 73.0 34.9

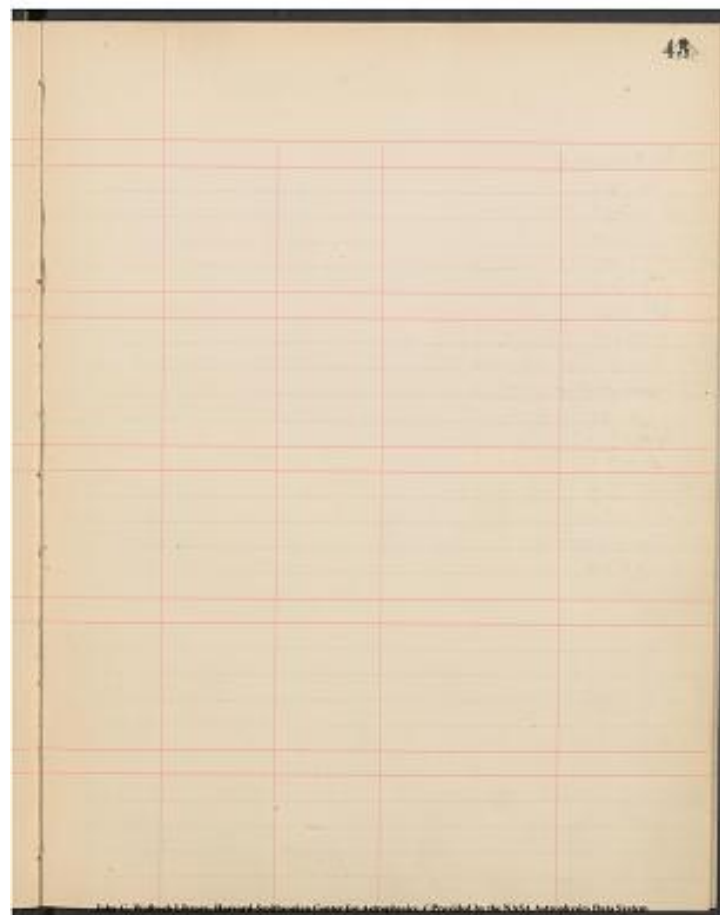
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[[NO INPUT]]



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Apr. 27, 1904

D 10268 = a4293

x y  
08' 29.5  
20.4  
97' 35.9  
26.8  
12' 25.3

D 10221 = a4379

x y  
01 29.1  
00 27.9

D 10269 = a4380

x y  
93 16.6 39.4  
01 28.8

[[~~95~~]] 95 [/~~95~~]]

D 10291 = a6165

x y  
31 12.1 22.2

D 10290 = a6169

x y  
31 13.2 20.9

44

*Printings of discordant cases of  
Rho*

*Apr. 27, 1904*

D 10268 = a4293			
x y			
08' 29.5			
20.4			
97' 35.9			
26.8			
12' 25.3			
D 10221 = a4379			
x y			
01 29.1			
00 27.9			
D 10269 = a4380			
x y			
93 16.6 39.4			
01 28.8			
<del>95</del>			
D 10291 = a6165			
x y			
31 12.1 22.2			
D 10290 = a6169			
x y			
31 13.2 20.9			

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Re~~measu~~~~estimates~~ (cont)

Apr 27, 1904

D10293 = A6170

[[3 Column Table]]

---	---	---
31	13.4	22.5

Dec 1, 1904

D10302 = 3824 ^[[Transferred to page 16-18]]

[[17 Column Table]]

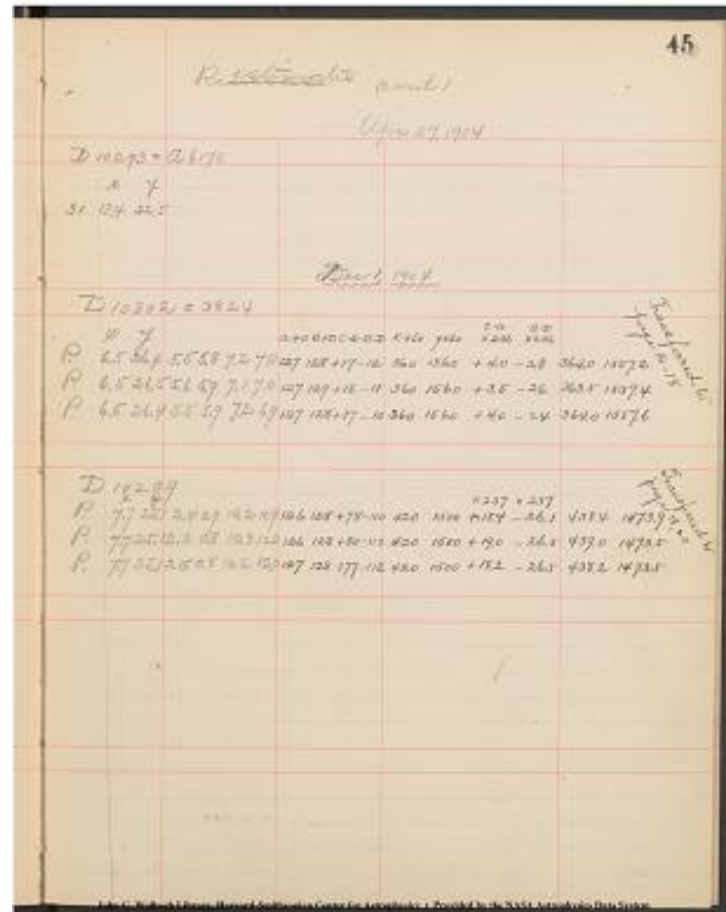
x	y	A + C	B + D	C - A	B - D	X x 60	Y x 60	C - A x 236	B - D x 236
6.5	26.4	5.5	5.8	7.2	7.0	127	128	+17	-12
364.0	1557.2								
6.5	26.5	5.6	5.9	7.1	7.0	127	129	+15	-11
364.0	1557.6								

D10299

Transferred to page 18, 20

x	y	x237	x237
7.7	25.1	2.4	0.9
126	128	+78	-110
420	1500	+18.4	-26.1
438.4	1473.9		
7.7	25.1	2.3	0.8
126	128	+80	-112
420	1500	+19.0	-26.5
439.0	1473.5		
7.7	25.1	2.5	0.8
127	128	+77	-112
420	1500	+18.2	-26.5
438.2	1473.5		

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Remeasures of Phoebe on plates on which it has been remarked by Prof W.H.P.

Nov. 8, 1904 H.I.S. Ric.

D 10221 = A4379

|x y | |A.B.C.D| |A+C B+D C-A B-D| |X x60 Y x60| These measures transferred to B19A p 94-96. | P. Nov 9 6 10|

|P| |12.7 18.7| |2.1 9.6 10.7 3.4| |128^[] 130^[] +86^[] +62^[] |  
720^[] 1080^[] |  
|Nov 9| |12.8 18.7| |2.1 9.8 10.7 3.1| |128^[] 129^[] +86^[] +67^[] |  
720^[] 1080^[] |  
" 10 | |12.7 18.7| |2.0 9.6 10.8 3.4| |128^[] 130^[] +88^[] +62^[] |  
720^[] 1080^[] |  
D, 10269 = A4380

|x y | |C -A| |B-D|  
x237 x237

P |12.6| 19.5 |5.5 |6.0 |7.0 |7.5 |125 |125 |+15 |-05720 |1140 |+3.6 |-1.2  
|723.6 |1138.8  
Nov 9 |12.5 |19.5 |5.7 |6.0 |7.0 |6.6127 |126|+13|-06720 |1140 |+3.1|-1.4  
|723.1 |1138.6 |P.  
" 10 |12.5 |19.5 |5.8 |6.1 |7.0 |6.5128 |126|+12|-04720 |1140 |+2.8|-0.9  
|722.8 |1139.1 |Nov 9

" 10

D10219 = a4399

x y c-a B-D

x234 x233

P. |1.9 |17.2 |1.1 |2.4 |11.7 |10.4128 |128+106-80 |60 |1020 |+24.8-18.6  
Nov 9 |1.8 |17.21.0 |2.2 |11.7 |10.4127 |126+107-82 |60 |1020 |+25.0-  
19.1  
10, |1.9 |17.21.0 |2.4 |11.8 |10.3128 |127+108-79 |60 |1020 |+25.3-18.4

302

\*D10[[~~strickethrough~~]] 249 [[~~strickethrough~~]] = a3824

x y

P. |7.9 |26.4 |0.9 |4.0 |11.8 |8.8 |127 |128+109-48 |420 |1560+25.7-11.3  
|445.7 |1548.7  
Nov 9 |7.9 |26.3 |0.9 |4.0 |11.9 |8.9 |128 |129+110-49 |420 |1560 |+26.0-  
11.6 446.0 |1548.4  
1.10 |7.9 |26.4 |0.9 |3.9 |11.9 |8.9 |128 |128+110 |-50 |420 |1560 |+26.0-  
11.8 446.0 |1548.2

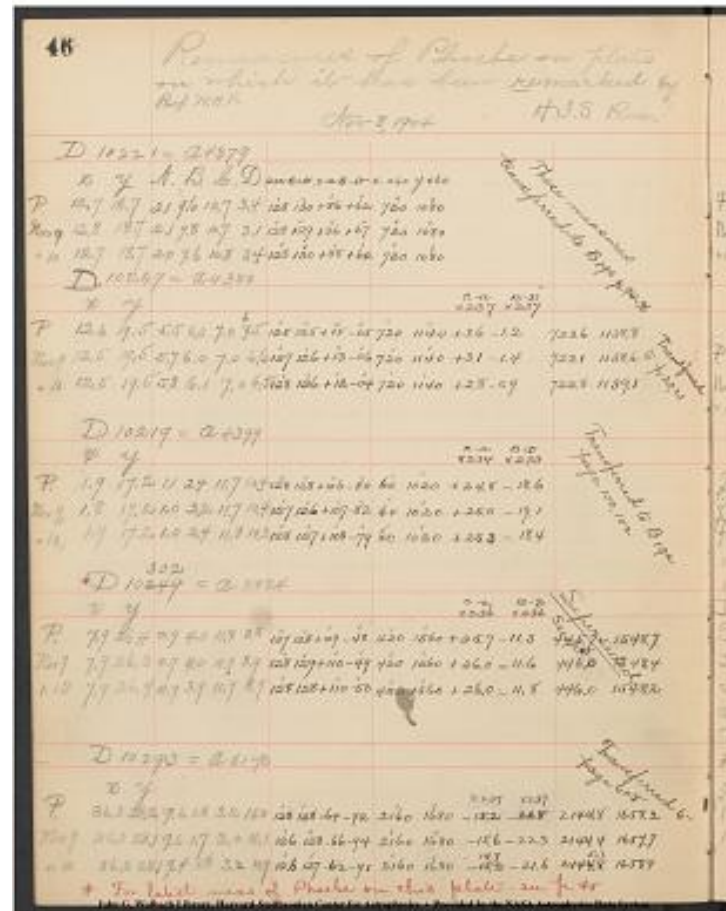
D 10293=a6170

x y

x237 x237

p. |36.3 |28.2 |9.6 |1.8 |3.2 |11.0 |128 |128 |-64-92 |2160 |1680 |-152-  
21.8 2144.8 |1658.2  
Nov 9 |36.3 |28.1 |9.6 |1.7 |3.0 |11.1 |126 |128-66-94 |2160 |1680 |-15.6-  
22.3 2144.4 |1657.7  
10 |36.3 |28.19.4 |1.8 |3.2 |10.9 |12.6 |127 |-62-91 |2160 |1680 -  
[[~~strickethrough~~]] |15.2 [[~~strickethrough~~]] | - 21.6 214 [[~~strickethrough~~]] |4.8  
[[~~strickethrough~~]] |1658.4

\* for latest meas of Phoebe on this plate - see h. 45



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Remeasures of Phoebe. (cont.)  
Nov 8, 1904

D10290=alpha6169

| x y| A.B.C.D.|a+c B+D c-a B-D| Xx60 yx60 x 238 x 238|  
P.|36.1 26.6|12.6 8.5 0.1 4.1|127 126-125+44|2160 1560 -  
29.8+10.5|2130.2 1570.5|  
|Nov 9,|36.0 26.6|12.4 8.4 0.2 4.1|126 125-122+43|2160 1560 -  
29.0+10.2|2131.0 1570.2|  
|v10|36.1 26.6|12.4 8.5 0.1 4.1|125 126-123+44|2160 1560 -  
29.3+10.5|2130.7 1570.5|  
[[right margin]] Transferred to p 4&6[[/right margin]]

D10291=a6165

P. 34.7 26.1 2.91.0 9.9 11.7 128 127+70-1072040 1680+16.6-25.4 1-  
56.5 1654.6  
Noo0, 34.7 28.12.8 0.9 9.9 11.9 127 128+71-110 2040 1680+16.8-26.1  
2056.8 1653.9  
34.7 28.12.9 1.1 9.9 11.6 128 127+70-105 2040 1680 +16.6-24.9  
2056.6 1655.1  
D 10249-A4340  
x y 12.50  
7.3 19.3 7.3 2.9 5.6 9.8 129 127-17-69 420 1140-40-16.2 416.0 1123.8  
4.9 19.4 .5 3.5 12.3 9.2 128 127+118-57 420 1140 +27.7-13.4 447.7  
1126.6  
0.6 37.4 4.9 5.0 7.7 -127-27 0 2220-6.3 2213.7  
0.6 29.9 5.5 12.0 0.5 125+115 0 1740 +27.0  
001 3.1 18.4 12.0 4.5 0.8 8.3 128 128-112-38 180 1080-26.2-8.9 153.7  
1071.1  
002. 3.0 10.9 12.4 12.2 12.8 0.5 255 127+01+117 180 600 +2+27.5  
150.2 627.5  
D 15.1 13.5 11.5 5.9 1.3 7.0 128 129-102-11 900 780 24.0-2.6 876.0  
777.4  
T1 Cammat meas  
J2 14.6 12.1 6.0 1.0 6.9 11.9 129 127 +09-107 840720 +2.1-25.1 842.1  
644.9

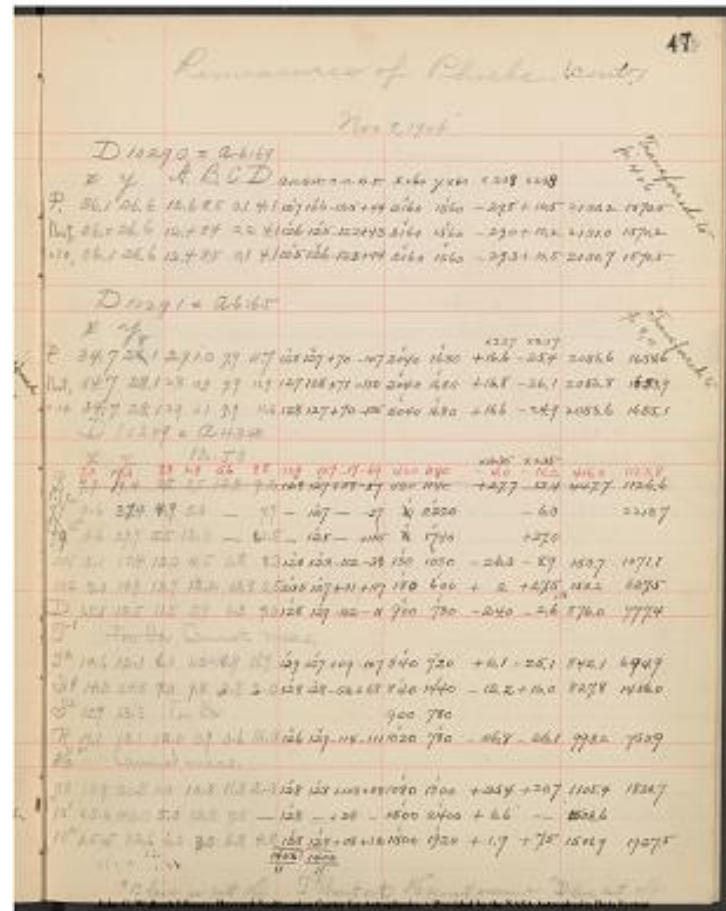
S2 15.7 13.3 100 BR 900 780

R 17.1 13.1 12.0 0.9 0.6 12.0 126 129-114-111 1020 780 -26.8 - 26.1

99.32 753.9

H CACUL MEAS.

08



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[[crossed-out]] Re [[/crossed-out]] measures of Phoebe (cont)

Nov. 8, 1904

| D10249 | | a+c B+D c-a B-D | |

| x y | A B 6. H | | | xx60 yx60 x235 ^[[c-a B-D]]

P[[/crossed-out]] 7.9 19.4 [[/crossed out]] 7.4 19.3 | [[/crossed-out]] 0.5 3.6

12.3 9.2 [[/crossed out]] 7.1 3.0 5.6 9.7 [[/crossed-out]] 128 128

[[/crossed out]] 127 127[[/crossed-out]] + 118 - 56 [[/crossed out]] -15 -

67[[/crossed-out]] 420 1140 +27.7 -13.2 [[/crossed out]] 420 1140 -3.5 -

15.7[[/crossed-out]] 447.7 1126.8 [[/crossed out]] 416.5 1124.3

12^1 | 27.4 26.4 | 7.7 9.0 5.1 3.9 | 128 129 | -26 + 51 | 1620 1560 -6.1

+12.0 | 1613.9 1572.0

12^2 | 27.4 19.4 | 8.0 4.0 4.8 8.7 | 128 127 | -32 -47 | 1620 1140 -7.5 -

11.0 | 1612.5 1129.0

13^1 | 27.6 14.6 ^[[?]] | 5.1 [[/crossed out]] 8.0 [[/crossed out]] 7.8 7.4 5.0 |

125 128 | +23+28 | 1620 1020 +5.4 +6.6 | 1625.4 1026.6

13^2 | 27.5 7.3 | 6.0 4.0 6.8 [[/crossed out]] 9[[/crossed out]] 8.8 | 128 128 |

+08 -48 | 1620 420 +1.9 -11.3 | 1621.9 408.7

17^1 | 35.9 12.6 1.0 8.0 11.8 4.7 | 128 127 | +108+33 | 2100 720 +25.4

+7.8 | 2125.4 727.8

17^2 | 33.8 5.3 2.0 2.3 10.8 10.4 | 128 127 | +88-81 | 1980 300 +20.7 -

19.0 | 2000.7 281.0

19^1 | 38.7 8.6 2.0 1.0 11.0 11.8 | 120 128 | +90+108 | 2280 960 +21.2

+25.1 | 2301.2 985.4

19^2 | 38.7 8.6 2.0 8.1 10.8 4.7 | 128 128 | +88+34 | 2280 48 - +20.7

+8.0 | 2300.7 4880

21^1 | 40.1 34.6 | 12.0 7.0 0.6 5.8 | 126 128 | -114+12 | 2400 2040 -26.7

+2.8 | 2373.2 2042.8

21^2 | 39.9 27.3 | 0.8 [[/crossed out]] 5. [[/crossed out]] 2.0 12.0 10.8 | 128

128 | +112-88 | 2350 1620 +26.3 -20.7 | 2366.3 1599.3

25^1 | 46.1 19.7 1.2 5.9 0.4 3.7 | 129 128 | -121+52 | 2760 1140 -28.4

+12.2 | 2731.6 1152.2

P[[/crossed out]] 7.4 19.3 [[/crossed out]] 7.9 19.4 [[/crossed out]] 0.6 3.5

12.3 9.3 [[/crossed out]] 7.0 3.0 5.6 9.7 [[/crossed out]] 129 128 [[/crossed

out]] 126 127 [[/crossed out]] +117-58 [[/crossed out]] -14-67 [[/crossed out]]

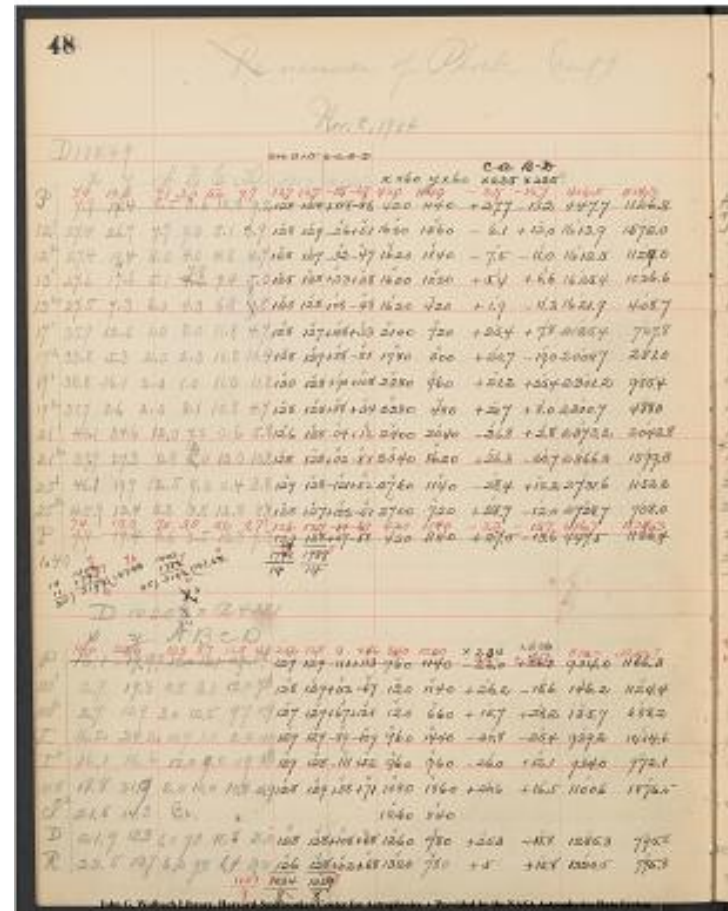
420 1140 +27.5 -13.6 [[/crossed out]] 420 1140 -3.3 - 15.7 [[/crossed out]]

416.7 1124.3 [[/crossed out]] 447.5 1126.4

1.40

[[equation]] [[equation]]

D 1025 [[/crossed-out]] ? [[/crossed-out]] ? = a4331



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Measures of Phoebe &amp; Comp. Stars.

Nov 10, 1904

D\*70250 (cont)

| x | y | A. | B. | C. | D. | a+c | B+D | c-a | B-D | xx60 | yy60 | x234 | x233 |

| H | 24.9 | 21. | ~~16.1~~ | ~~19.9~~ | ~~11.9~~ | ~~12.0~~ | ~~0.9~~ | ~~0.9~~ | ~~128~~ | ~~129~~ |Br. | ~~1440~~ | ~~1260~~ |

| T | 24.3 | 20.8 | Cannot meas. | 1440 | 1200 |

| P | ~~16.1~~ | ~~19.9~~ | ~~11.9~~ | ~~12.0~~ | ~~0.9~~ | ~~0.9~~ | ~~128~~ | ~~129~~ |110 | +111 | 960 | 1140 | -25.7 | +25.9 | 934.3 | 1165.9 | ~~128~~ | ~~129~~ |

14.0 | 20.6 | 12.7 | 8.5 | 12.6 | 4.2 | 253 | 124 | -1 | +43 | 840 | 1200 |

2 | +10.0 | 809.8 | 1210.0 |

| T | 24.2 | 13.6 | Too Br. | 1440 | 780 |

12 | 27.4 | 27.6 | 8. | ~~128~~ | ~~129~~ | 5 |8.0 | 4.2 | ~~128~~ | ~~129~~ | 3 | ~~128~~ | ~~129~~ | 4.8 | 127 | 128 |

43 | +32 | 1620 | 1620 | -10.1 | +7.5 | 1609.9 | 1627.5 |

13 | 127.5 | 15. | ~~128~~ | ~~129~~ | 5 | ~~128~~ | ~~129~~ |6 | 6.1 | 6.0 | ~~128~~ | ~~129~~ | 5 | ~~128~~ | ~~129~~ | 6.7 | 6.9 | 128 | 129 | +06 |

09 | 1620 | 900 | +1.4 | -2.1 | 1621.4 | 897.9 |

13 | 227.4 | 8.2 | 7.1 | 1.0 | 5.7 | 11.8 | 128 | 128 | -14 | -108 | 1620 | 480 | -3.3 |

25.2 | 1616.7 | 454.8 |

17

135.9 | 13.5 | 20.6 | 6.6 | 10.8 | 6.3 | 128 | 129 | +88 | +03 | 2100 | 780 | +20.6 | +7 | 2120.6 |

780.7 |

17 | 235.8 | 6.2 | 1.8 | 1.9 | 11.0 | 11.0 | 128 | 129 | +92 | -91 | 2100 | 360 | +21.5 |

21.2 | 2121.5 | 338.8 |

19

138.7 | 17.0 | 28.1 | 12.6 | 10.0 | 0.3 | 128 | 129 | +72 | +123 | 2280 | 1020 | +16.8 | +28.7 |

2296.8 | 1048.7 |

\*19

238.7 | 9.6 | 3.1 | 6.9 | 9.7 | 6.0 | 128 | 129 | +66 | +09 | 2280 | 540 | +15.4 | 2.1 | 2295.4 |

42.1 |

21 | 139.9 | 35.6 | 0.8 | 6.0 | 12.0 | 6.9 | 128 | 129 | +112 | -09 | 2340 | 2100 | +26.2 |

2.1 | 2366.2 | 2097.9 |

21 | 239.8 | 28.3 | 2.5 | 1.5 | 10.4 | 11.3 | 129 | 128 | +79 | -98 | 2340 | 1680 | +18.5 |

22.8 | 2358.5 | 1657.2 |

25

145.9 | 20.6 | 0.8 | 8.0 | 12.0 | 4.8 | 128 | 128 | +112 | +32 | 2700 | 1200 | +26.2 | +7.5 | 27

26.2 | 1207.5 |

| P | ~~16.1~~ | ~~19.9~~ | ~~11.8~~ | ~~12.0~~ | ~~0.9~~ | ~~0.9~~ | ~~127~~ | ~~129~~ |109 | +111 | 960 | 1140 | -25.5 | +25.9 | 934.5 | 1165.9 | ~~128~~ | ~~129~~ |

14.0 | 20.5 | 12.8 | 8.8 | 12.7 | 4.0 | 255 | 128 | -1 | +48 | 840 | 1200 |

2 | +11.2 | 809.8 | 1211.2 |

19 16 / 15

| ~~1663~~ | ~~13~~ | ~~128~~ | ~~129~~ |16 | ~~128~~ | ~~129~~ | 71 | ~~128~~ | ~~129~~ | 68 | 13 |9 | ~~128~~ | ~~129~~ | 8 | ~~128~~ | ~~129~~ | 15 | ~~128~~ | ~~129~~ | 13 | ~~128~~ | ~~129~~ |

21 27

| ~~1024~~ | ~~1151~~ || ~~1663~~ | ~~1816~~ || ~~2687~~ | ~~3067~~ |127. | ~~95~~ | ~~79~~ |

8 13 21

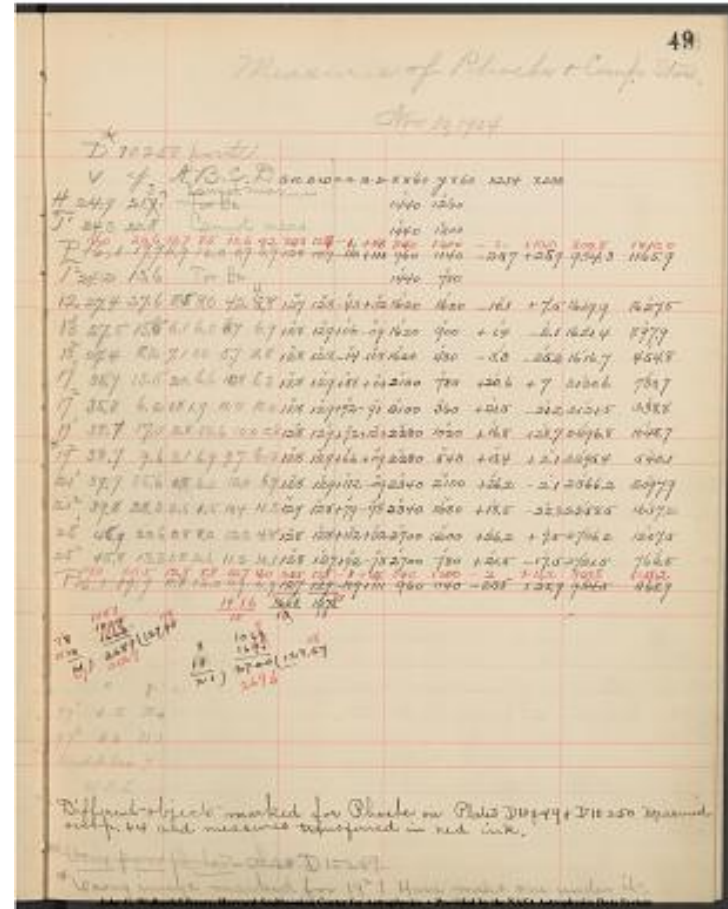
102 | ~~9~~ | ~~128~~ | ~~129~~ | 8 |16 | ~~128~~ | ~~129~~ | 71 | ~~128~~ | ~~129~~ | 68 || ~~2700~~ | ~~2696~~ |128. | ~~57~~ | ~~38~~ |

| x | y |

97 1 | 0.5 | 38.4 |

97 2 | 0.6 | 31.1 |

Recorded Dec. 7



H. S. L.  
Different objects marked for Phoebe on Plates D10 249 & D10 250. on  
for 64 and measures in red ink.  
[[~~Very poor plate - also D10249~~]]  
\*Wrong image marked for 19 2? Have meas one under it.  
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Measures of Phoebe and Comp stars.

H.I.S. Ric.

Nov 18, 1904.

12.25

D1095 ~~[[strickethrough]] 0~~ ~~[[strickethrough]] 1 =~~ ~~[[strickethrough]] a6812~~  
~~[[strickethrough]] a4797~~

Assumed to be 10951 as there are two plates numbered 10950 and no 10951

[[17 columned table]]

| x|y|A.|B.|C.|D.|a+c|B+D|C-a|B-D|X x 60|y x 60|C-a x 235|B-D x 235|

|-----|  
|P|16.5|14.6|5.9|8.8|6.9|4.0|128|128|+10|+48|960|840|+2.4|+11.3|962.4|  
851.3|

|40 ^[[1]]|1.5|35.4|6.1|3.8|6.7|9.0|128|128|+06|-52|60|2100|+1.4|-

12.2|61.4|2087.8|

|40 ^[[2]]|1.6|31.4|4.9|4.0|8.0|8.8|129|128|+31|-48|60|1860|+7.3|-

11.3|67.3|1848.7|

|44

|14.6|18.9|6.0|11.0|6.9|1.7|129|127|+09|+93|240|1080|+2.1|+21.9|242.1|  
1101.9|

|44

|24.6|14.9|4.1|11.8|8.7|1.0|128|128|+46|+108|240|840|+10.8|+25.4|250.8|  
865.4|

|48 1|6.5|27.2|6.0|2.0|6.8|10.8|128|128|+08|-88|360|1620|+1.9|-

20.7|361.9 1599.3|

| 14

| 1 | 21.3 | 19.9 | 9.5 | 12.0 | 2.9 | 0.7 | 12~~[[strickethrough]]~~5

~~[[strickethrough]]~~ 4? | 127 | -66 | +113 | 1260 | 1140 | -15.5 | +26.6 |

1244.5 | 1166.6 |

|74

2 |21.4 |16.1 |7.9 |12.9 |4.9 |120|128 |258 |-30 |strike through |258 |00  
|1260 |960 |-7.0 |0.0 |1253.0 |960.0 |

| 00

1 |30.2 |29.6 |10.5 |7.3 |2.3 |5.4 |128 |129 |-52 |+29 |1800 |1500 |-12.2  
|6.8 |1787.8 |1506.8 |

|P |16.5 |14.7 |6.1 |8.9 |6.8 |4.0 |129 |129 |+07 |+49 |960 |840 |+1.6  
|+11.5 |961.6 |851.5 |

|24

0 |38.5 |25.8 |5.9 |10.7 |6.9 |2.1|128 |128 |+10 |+86 |2280 |1500 |+2.4  
|+20.2 |2282.4 |1520.2 |

|24

2 |38.6 |21.8 |4.6 |11.0 |8.1 |1.8 |127 |128 |+35 |+92.2280 |1260 |+8.2  
|+21.6 |2288.2|1281.6 |

|26

50

Measures of Phoebe and Comp stars

H.I.S. Ric.

Nov 18, 1904

D1095 = ~~[[strickethrough]] 0~~ ~~[[strickethrough]] 1 =~~ ~~[[strickethrough]] a6812~~  
~~[[strickethrough]] a4797~~

Assumed to be 10951 as there are two plates numbered 10950 and no 10951

[[17 columned table]]

| x|y|A.|B.|C.|D.|a+c|B+D|C-a|B-D|X x 60|y x 60|C-a x 235|B-D x 235|

|-----|

|P|16.5|14.6|5.9|8.8|6.9|4.0|128|128|+10|+48|960|840|+2.4|+11.3|962.4|  
851.3|

|40 ^[[1]]|1.5|35.4|6.1|3.8|6.7|9.0|128|128|+06|-52|60|2100|+1.4|-  
12.2|61.4|2087.8|

|40 ^[[2]]|1.6|31.4|4.9|4.0|8.0|8.8|129|128|+31|-48|60|1860|+7.3|-  
11.3|67.3|1848.7|

|44

|14.6|18.9|6.0|11.0|6.9|1.7|129|127|+09|+93|240|1080|+2.1|+21.9|242.1|  
1101.9|

|44

|24.6|14.9|4.1|11.8|8.7|1.0|128|128|+46|+108|240|840|+10.8|+25.4|250.8|  
865.4|

|48 1|6.5|27.2|6.0|2.0|6.8|10.8|128|128|+08|-88|360|1620|+1.9|-  
20.7|361.9 1599.3|

| 14

| 1 | 21.3 | 19.9 | 9.5 | 12.0 | 2.9 | 0.7 | 12~~[[strickethrough]]~~5

~~[[strickethrough]]~~ 4? | 127 | -66 | +113 | 1260 | 1140 | -15.5 | +26.6 |

1244.5 | 1166.6 |

|74

2 |21.4 |16.1 |7.9 |12.9 |4.9 |120|128 |258 |-30 |strike through |258 |00  
|1260 |960 |-7.0 |0.0 |1253.0 |960.0 |

| 00

1 |30.2 |29.6 |10.5 |7.3 |2.3 |5.4 |128 |129 |-52 |+29 |1800 |1500 |-12.2  
|6.8 |1787.8 |1506.8 |

|P |16.5 |14.7 |6.1 |8.9 |6.8 |4.0 |129 |129 |+07 |+49 |960 |840 |+1.6  
|+11.5 |961.6 |851.5 |

|24

0 |38.5 |25.8 |5.9 |10.7 |6.9 |2.1|128 |128 |+10 |+86 |2280 |1500 |+2.4  
|+20.2 |2282.4 |1520.2 |

|24

2 |38.6 |21.8 |4.6 |11.0 |8.1 |1.8 |127 |128 |+35 |+92.2280 |1260 |+8.2  
|+21.6 |2288.2|1281.6 |

|26

1 |38.9 |13.2 |1.5 |2.1 |11.2 |10.4 |127 |125 |+97 |-83 |2280 |780 |22.8 | -  
19.5 |2302.8 |7605 |

|26  
2 |390 |9.3 |12.8 |2.9 |12.6 |9.9254|128 |-02 |-70 |2340 |540 |-5 |-16.4  
|2309.5 |523.6 |

| 30  
1 |39.1 |38.2 |11.0 |2.0 |1.7 |10.8 |127 |128 |-93 |-88 |2340 |2280 |-21.9 |-  
20.7 |2318.1 |2259.3 |

|30  
2 |39.3 |34.3 |9.6 |2.1 |3.0 |10.5 |126 |126 |-66 |-84 |2340 |2040 |-15.5  
|19.7 |2324.5 |2020.3 |

|J  
1 |41.4 |12.7 |8.0 |9.9 |4.9 |2.9 |129 |128 |-31 |+70 |2460 |720 |-73 |+16.4  
|2452.7 |736.4 |

|J  
2 |41.5 |8.8 |5.7 |10.5 |7.0 |2.2 |127 |127 |+13 |+832460 |480 |

|44  
1? | 43.9 | 24.2 |1.1 | 2.6 |11.6 |10.2 |127 |128 |+105 |-76 |2580 |1440  
|+24.7 |-17.9 |2612.7 |1422.1 |

|44  
2? |44.1 | 20.3 |12.1 |3.0 |0.5 |9.7 |126 |127 |-116 |-67 |2640 |1200 |27.3  
|-15.7 |2612.7 |1184.3 |

|S  
1 | 43.5 |12.0 |BTU, | |2580 |720 |

|S  
2 |43.6 |8.0 |2.8 | 12.8 |10.0 |12.7 |128 |255 |+72 |+01 |2580 |480 |+169  
|+2 |2596.9 |450.2 |

|R |43.6 |7.5 |3.9 |6.0 |8.8 |6.8 |127 |128 |+49 |-08 |2580 |420 |+11.5 |-1.9  
|2591.5 |418.1 |

|J |44.5 |13.6 |5.9 |8.9 |6.9 |4.0 |128 |129 |+10 |+49 |2640 |780 |+2.4  
|+11.5 |2642.4 |791.5 |

|P  
1 |16.5 |14.6 |6.0 |8.8 |6.8 |3.9 |129/331 7(crossed out)6/26 |127/3449/27  
|+68 |+49 |960 |5(crossed out) 40 |+1.9 |+11.5 |961.9 |851.5 |

|1.00 | /127.54 | |127.74 |

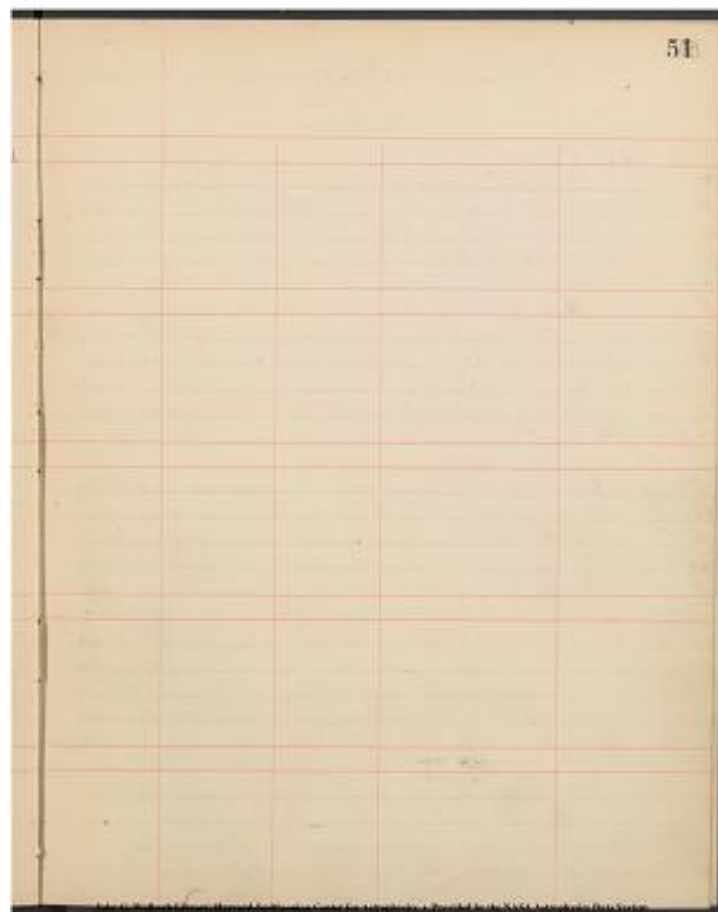
John G. Wolbach Liberty, Harvard Smithsonian Center for Astrophysics.  
Provided by the NASA Astrophysics Data system



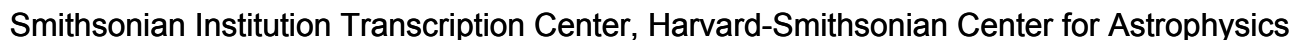
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| 00 | 1 | 33.8 | 1.9 | 1.6 | 11.8 | 11.1 | 0.9 | 127 | 127 | +95 | +09 |  
[strikethrough] | +109 | 1980 | 60 | +22.3 | +25.6 | 2002.3 | 85.6 |

| 00 | 2 | 34.1 | 9.3 | 11.8 | 3.1 | 1.0 | 9.6 | 128 | 127 | -108 | -65 | 2040 |  
540 | -25.4 | -15.3 | 2014.6 | 524.7 |

| 04 | 1 | 46.9 | 2.1 | 1.1 | 1.0 | 11.8 | 111.8 | 129 | 128 | +107 | -108 | 2760  
| 120 | +25.1 | -25.4 | 2785.1 | 94.6 |

| 04 | 2 | 47.1 | 9.4 | 11.1 | 5.5 | 1.6 | 7.2 | 127 | 127 | -95 | -17 | 2820 | 540  
| -22.3 | -4.0 | 2797.7 | 536.0 |

| 05 | 1 | 49.1 | 12.3 | 11.7 | 3.0 | 1.0 9.8 | 12.7 | 128 | -107 | -68 | 2940 |  
720 | -25.1 | -16.0 | 2914.9 | 704.0 |

| 05 | 2 | 49.3 | 19.6 | 9.3 | 7.0 | 3.5 | 5.8 | 128 | 128 | -58 | +12 | 2940 |  
1140 | -13.6 | +2.8 | 2926.4 | 1142.8

| 0 | 3 | 45.6 | 39.4 | 5.0 | 4.9 | 7.9 | 8.0 | 129 | 129 | +29 | -31 | 2700 |  
2340 | +6.8 | -7.3 | 2706.8 | 2332.7 |

| P | 3.8 | 22.9 | ? | 2294 | 2430 |

| 18 | = 127.44 | 19 | 127.89 |

Image of Phoebe very ft.

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Measures of Phoebe and Comp. stars

10.50

Nov ~~19~~ 21, 1904

D10961=A6006

P ~~x y~~ A. B. C. D | a+c B+D. c-a B-D | xx60  
yx60 x235 x235 |P ~~4.0 9.6~~ 12.6 12.6 | 4.0 9.6 8.9  
3.2 | 129<sup>^</sup> 128<sup>^</sup> | +49<sup>^</sup> | +64<sup>^</sup> | 720<sup>^</sup> 720<sup>^</sup> | +11.5 +15.0 | 731.5  
735.0 || 1.3 9.9 | 8.8 ~~3.8~~ 12.0 4.0 0.8 | 128<sup>^</sup> |  
128<sup>^</sup> | -48<sup>^</sup> | +112<sup>^</sup> | 60<sup>^</sup> | 540<sup>^</sup> | -11.3 +26.3 | 48.7 566.3 |  
43 3.9 28.9 | 0.4 12.1 12.3 0.6 | 127<sup>^</sup> | 127<sup>^</sup> | +119<sup>^</sup> | +115<sup>^</sup> | 180<sup>^</sup> |  
1680<sup>^</sup> | +28.0 +27.0 | 208.0 1707.0 || H. 4.1 7.7 | 11.5 10.0 1.3 2.8 | 128<sup>^</sup> | 128<sup>^</sup> | -102<sup>^</sup> | +72<sup>^</sup> | 240<sup>^</sup> |  
420<sup>^</sup> | -24.0 +16.9 | 216.0 436.9 || S 7.5 ~~9.0~~ 8.8 | Bright- | 420<sup>^</sup> | 480<sup>^</sup> || 40 8.9 1.9 | 0.5 11.6 12.1 1.1 | 126<sup>^</sup> | 127<sup>^</sup> | +116<sup>^</sup> | +105<sup>^</sup> | 480<sup>^</sup> |  
60<sup>^</sup> | +27.3 +24.7 | 507.3 84.7 || 45 10.3 39.4 | 9.4 5.0 3.3 7.8 | 127<sup>^</sup> | 128<sup>^</sup> | -61<sup>^</sup> | -28<sup>^</sup> | 600<sup>^</sup> |  
2340<sup>^</sup> | -14.3 -6.6 | 585.7 2333.4 || P. 12.6 12.6 | 4.1 9.5 8.7 3.2 | 128<sup>^</sup> | 127<sup>^</sup> | +46<sup>^</sup> | +6.3<sup>^</sup> | 720<sup>^</sup> |  
720<sup>^</sup> | +10.8 +14.8 | 730.8 734.8 || I. 10.4 7.9 | 8.0 12.7 4.9 0.1 | 129<sup>^</sup> | 128<sup>^</sup> | -31<sup>^</sup> | +126<sup>^</sup> | 600<sup>^</sup> |  
420<sup>^</sup> | -7.3 +29.6 | 592.7 449.6 || 46 12.5 30.6 | 6.9 8.1 5.9 4.7 | 128<sup>^</sup> | 128<sup>^</sup> | -10<sup>^</sup> | +34<sup>^</sup> | 720<sup>^</sup> |  
1800<sup>^</sup> | -2.4 +8.0 | 717.6 1808.0 || 42 18.4 5.9 | 7.0 12.0 5.9 0.8 | 129<sup>^</sup> | 128<sup>^</sup> | -11<sup>^</sup> | +112<sup>^</sup> | 1080<sup>^</sup> |  
300<sup>^</sup> | -2.6 +26.3 | 1077.4 326.3 || 47 22.3 31.8 | 9.8 9.6 3.0 3.2 | 128<sup>^</sup> | 128<sup>^</sup> | -68<sup>^</sup> | +64<sup>^</sup> | 1320<sup>^</sup> |  
1860<sup>^</sup> | -16.0 +15.0 | 1304.0 1875.0 || 48 26.4 25.5 | 7.6 6.2 5.1 6.5 | 127<sup>^</sup> | 127<sup>^</sup> | -25<sup>^</sup> | -0.3<sup>^</sup> | 1560<sup>^</sup> |  
1500<sup>^</sup> | -5.9 -7 | 1554.1 1499.3 || 44 45.4 16.6 | 7.2 7.0 5.4 5.8 | 126<sup>^</sup> | 128<sup>^</sup> | -18<sup>^</sup> | +12<sup>^</sup> | 2700<sup>^</sup> |  
960<sup>^</sup> | -4.2 +2.8 | 2695.8 962.8 || 45? 47.3 1.5 | 8.9 6.0 3.9 6.9 | 128<sup>^</sup> | 129<sup>^</sup> | -50<sup>^</sup> | -09<sup>^</sup> | 2820<sup>^</sup> |  
60<sup>^</sup> | -11.8 -2.1 | 2808.2 57.9 || P 12.6 12.6 | 3.9 9.8 8.9 3.0 | 128<sup>^</sup> | 128<sup>^</sup> |  
128<sup>^</sup> | +50<sup>^</sup> | +68<sup>^</sup> | 720<sup>^</sup> 720<sup>^</sup> | +11.8  
+16.0 | 731.8 736.0 || 11.15 | 1916 | 1917 |

127.73 15 15

127.80

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Measures of Phoebe and Comp. stars

Nov 21, 1904

D10961 = A6006

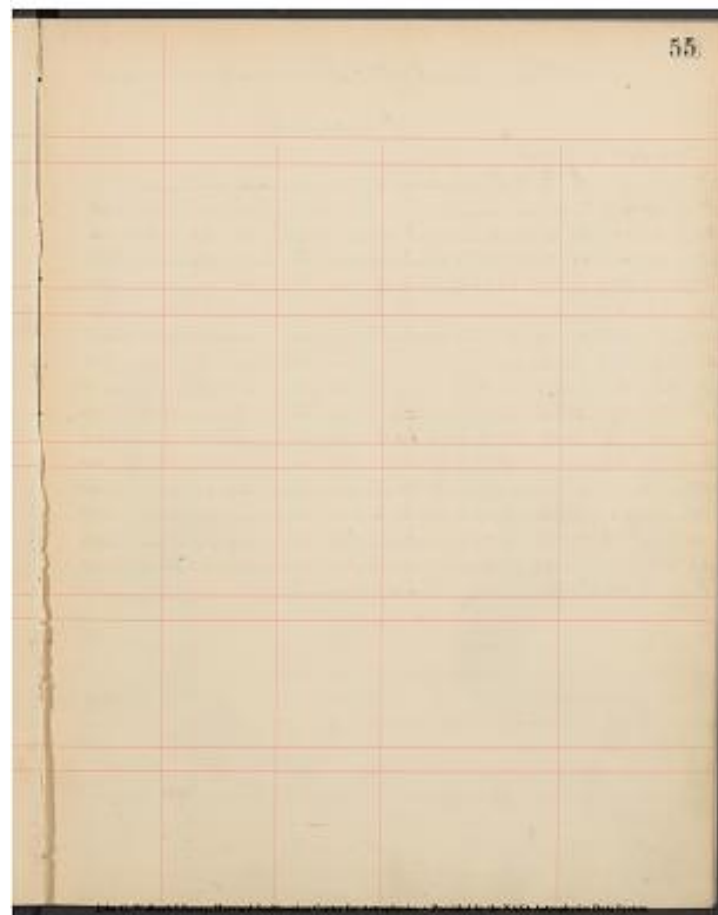
Star	x	y	P	I	H	S	Notes
D10961	4.0	9.6	12.6	12.6	4.0	9.6	8.9
A6006	3.2	12.9	128	128	+49	+64	720 720 +11.5 +15.0 731.5 735.0
P	1.3	9.9	8.8	3.8	12.0	4.0	0.8
I	10.3	39.4	9.4	5.0	3.3	7.8	127 128 -61 -28 600
H	10.4	7.9	8.0	12.7	4.9	0.1	129 128 -31 +126 600
S	7.5	9.0	8.8	Bright-	420	480	
P	12.6	12.6	4.1	9.5	8.7	3.2	128 127 +46 +6.3 720
I	10.4	7.9	8.0	12.7	4.9	0.1	129 128 -31 +126 600
H	12.5	30.6	6.9	8.1	5.9	4.7	128 128 -10 +34 720
S	18.4	5.9	7.0	12.0	5.9	0.8	129 128 -11 +112 1080
P	22.3	31.8	9.8	9.6	3.0	3.2	128 128 -68 +64 1320
I	26.4	25.5	7.6	6.2	5.1	6.5	127 127 -25 -0.3 1560
H	45.4	16.6	7.2	7.0	5.4	5.8	126 128 -18 +12 2700
S	47.3	1.5	8.9	6.0	3.9	6.9	128 129 -50 -09 2820
P	12.6	12.6	3.9	9.8	8.9	3.0	128 128
I	12.6	12.6	3.9	9.8	8.9	3.0	128 128
H	12.6	12.6	3.9	9.8	8.9	3.0	128 128
S	12.6	12.6	3.9	9.8	8.9	3.0	128 128

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[[NO INPUT]]

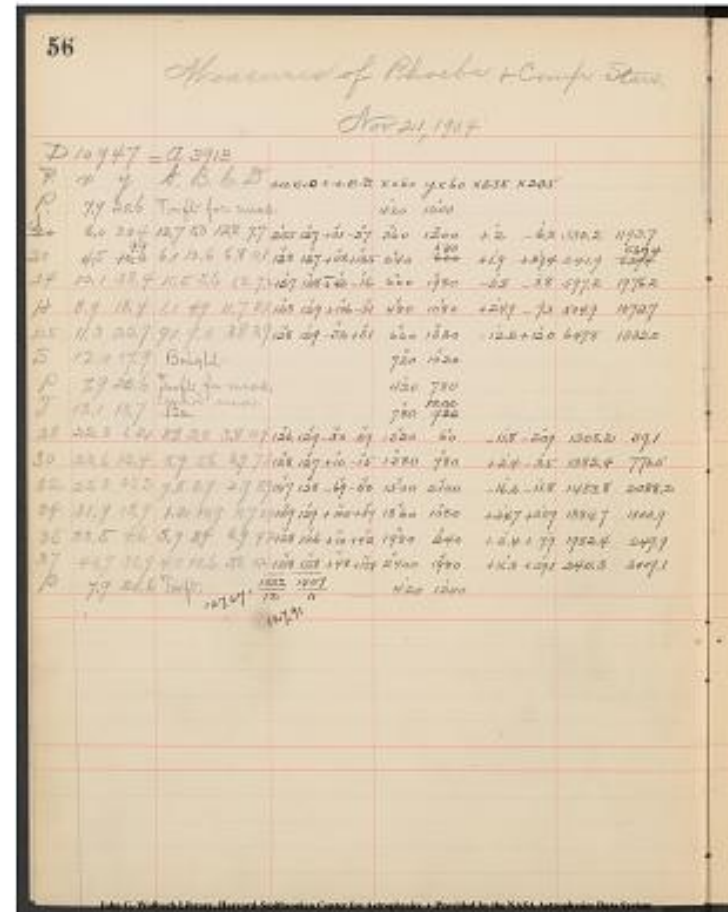
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56  
 Measures of Phoebe + Graph stars  
 Nov 21, 1904  
 D10947=a3913  
 Rxy A.B.b.D a+c. B+d c-a B-D xx60 yx60 x235 x235  
 P. 7.9 20.6|Too ft for meas.| 420 1200|  
 D 6.0 20.4|12.7 5.0 12.8 7.7|255 127 +01 -27|360 1200 +2 -6.3|330.2  
 1193.7  
 20 4.5 ~~[[/strickethrough]]~~ 10.0 ~~[[/strickethrough9.9|6.0 12.6 6.8 0.1|128 127~~  
 +08 +125|240 540 +1.9 +29.4| 241.9 569.4  
 24 10.1 33.4|11.5 5.6 1.2 7.2|127 128 +12 -16|600 1980 -2.8 -3.8|597.2  
 1976.2  
 H 8.9 18.4|1.1 4.9 11.7 8.0|128 129 +106 -31|480 1080 +24.9-7.3|504.9  
 1072.7  
 25 11.3 22.7|9.0 9.0 3.8 3.9|128 129 -52 +51|660 1320 -12.2  
 +12.0|647.8 1332.0  
 S 12.0 17.9|Bright| 720 1020  
 P 7.9 20.6|Too ft for meas.| 420 780  
 J 13.1 13.7| ~~[[/strickethrough]]~~ Br ~~[[/strickethrough]]~~ Cannot meas.| 780  
~~[[/strickethrough]]~~ 780 ~~[[/strickethrough]]~~ 1200  
 28 22.3 1.2|8.8 2.0 3.8 10.9|126 129 -50 -89|1320 60 -11.8 -20.9|1308.2  
 39.1  
 30 23.6 13.4|5.9 5.6 6.9 7.1|128 127 +10 -15|1380 780 +24 -3.5|1382.4  
 776.5  
 32 25.3 35.3|9.8 3.9 2.9 8.9|127 128 -69 -50|1500 2100 -16.2 -  
 11.8|1483.8 2088.2  
 34 31.9 18.9|1.2 10.9 11.7 2.0|129 129 +105 +89|1860 1080 +24.7  
 +20.9|1884.7 1100.9  
 35 33.5 4.6|5.9 8.4 6.9 4.2|128 126 +10 +42|1980 240 +2.4 +9.9|1982.4  
 249.9  
 37 40.7 33.9|4.0 12.6 8.8 0.2|128 128 +48 +124|2400 1980+11.3  
 +29.1|2411.3 2009.1  
 P 7.9 20.6|Too ft. 127.67=1532/12 127.91=1407/11 | 420 1200

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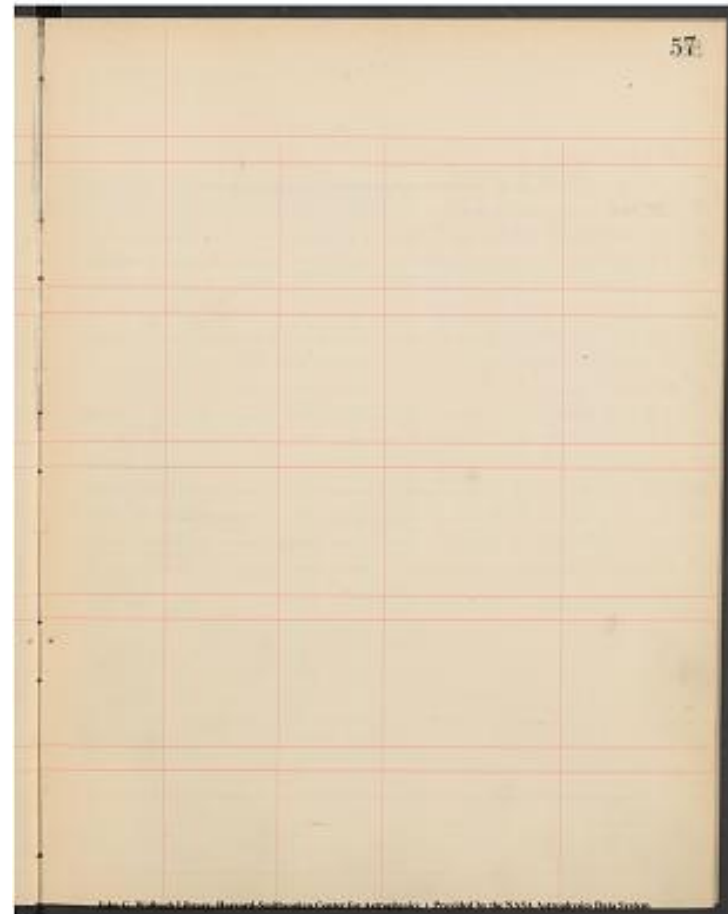


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Measures of Phoebe &amp; Comp. Stars.

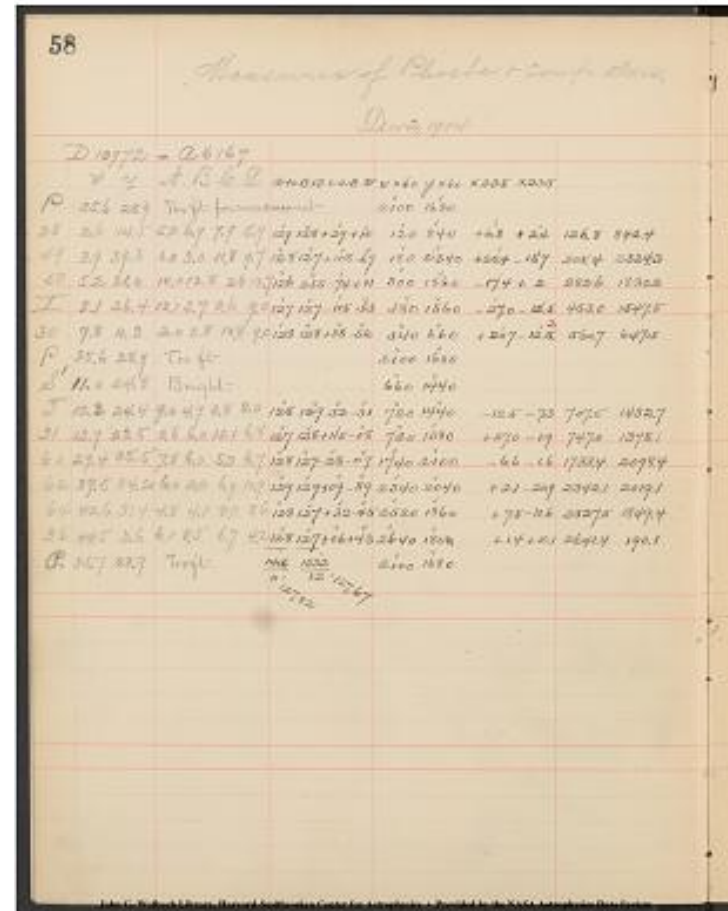
Dec 2, 1904

D10972 = A6167

[6 columns]

[x y | A. B. C. D. | a+c B+D c-a B-D | xx60 yx60 x235 x235 | |  
 rho | 35.6 28.9 | Too ft for measurement | | 2100^A | 1680^A | |  
 28 | 2.6 14.5 | 5.0 6.9 7.9 5.9 | 129^A | 128^A | 29^A | 10^A | 120^A |  
 840^A | +6.8^A | +2.4^A | 126.8 842.4 |  
 49 | 3.9 39.3 | 1.0 3.0 11.8 9.7 | 128^A | 127^A | +108^A | -67^A | 180^A |  
 2340^A | +25.4^A | -15.7^A | 205.4 2324.3 |  
 50 | 5.2 31.0 | 10.0 12.8 26 12.7 | 126^A | 255^A | -74^A | +01^A | 300^A |  
 1860^A | -17.4^A | +2 | 282.6 1830.2 |  
 8 | 1 26.4 | 12.1 3.7 0.6 9.0 | 127^A | 127^A | -115^A | -53^A | 480^A |  
 1560^A | -27.0^A | -12.5^A | 453.0 1547.5 |  
 30 | 9.8 11.3 | 2.0 3.8 10.8 9.0 | 128^A | 128^A | +88^A | -52^A | 540^A |  
 660^A | +20.6^A | -12. | ~~5~~ | ~~2~~ | 560.7 647.5 |  
 P | 35.6 28.9 | Too ft | | 2100^A | 1680^A | |  
 S | 11.0 24.8 | Bright | 660^A | 1440^A | |  
 J | 12.3 24.4 | 9.0 4.9 3.8 8.0 | 128^A | 129^A | -52^A | -31^A | 720^A |  
 1440^A | -12.5 -7.3 | 707.5 1432.7 |  
 31 | 12.9 23.5 | 0.6 6.0 12.1 6.8 | 127^A | 128^A | +115^A | -08^A | 720^A |  
 1380^A | +27.0 -1.9 | 747.0 1378.1 |  
 60 | 29.4 35.5 | 7.8 6.0 5.0 6.7 | 128^A | 127^A | -28^A | -07^A | 1740^A |  
 2100^A | -6.6 -1.6 | 1733.4 2098.4 |  
 62 | 39.5 34.2 | 6.0 2.0 6.9 10.9 | 129^A | 129^A | +09^A | -89^A | 2340^A |  
 2040^A | +2.1 -20.9 | 2342.1 2019.1 |  
 64 | 42.6 31.4 | 4.8 4.1 8.0 8.6 | 128^A | 127^A | +32^A | -45^A | 2520^A |  
 1860^A | +7.5 -10.6 | 2527.5 1849.4 |  
 36 | 44.5 3.6 | 6.1 8.5 6.7 4.2 | 128^A |  
127^A | +06^A | +43^A | 2640^A |  
~~180~~ | ~~0~~ | +1.4 +10.1 | 2641.4 190.1 |  
 P | 35.7 28.9 | Too ft. | 1406^A |  
1532^A | 2100^A | 1680^A |  
 11 = 127.82 | 12 = 127.67 |

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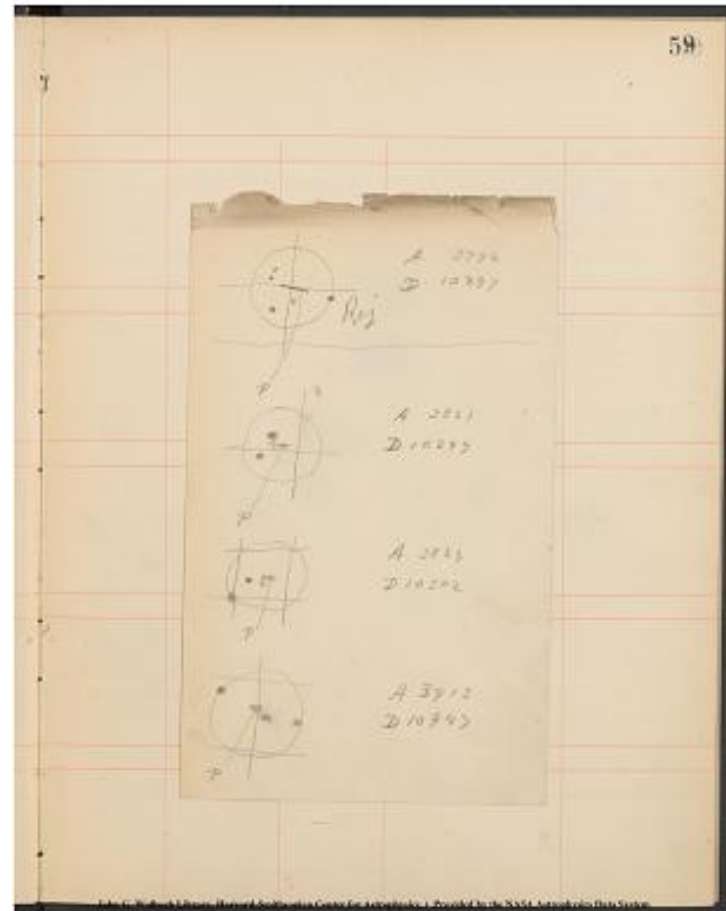
59

[[image]] RG A3794  
P D 10297

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P D10299

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P D10302

[[image]] A3913  
P D10947



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Measures of Phoebe &amp; Comp. Stars.

Dec 12, 1904

\*D10962=a6003

| x y | A. B. C. D. | a+c B+D c-a B-D | x x60 yx60 x234 x234

P. | ~~15.5~~ | ~~15.5~~~~15.2~~ | ~~15.1~~~~6.1~~ | ~~6.9~~~~0.6~~ | ~~0.5~~~~6.6~~ | ~~6.0~~~~12.2~~ | ~~12.3~~~~127~~ | ~~179~~~~128~~ | ~~128~~~~+0.5~~ | ~~-0.9~~ | ~~116~~ | ~~900~~~~900~~ | ~~900~~~~+1.2~~ | ~~-2.1~~~~-27.1~~ | ~~-27.6~~~~901.2~~ | ~~897.9~~~~872.9~~ | ~~872.4~~

| 3.6 12.7 | 3.8 9.0 8.9 3.7 | 127 129 +51 +53 | 180 720 +11.9 +12.4 | 191.9 732.4

43 | 3.5 30.7 | 5.9 10.0 7.0 2.9 | 129 129 +11 +71 | 180 1800 +2.6

+16.6 | 182.6 1816.6

40 | 7.4 3.5 | 8.9 6.0 3.9 6.8 | 128 128 -50 -08 | 420 180 -11.7 -1.9 | 408.3

178.1

S | 10.0 11.0 ? | Bright | 600 660 |

46 | 12.1 32.1 | 11.8 1.0 0.9 11.9 | 127 129 -109 -109 | 720 1920 -25.5 -

25.5 | 694.5 1894.5

T | 13.4 10.8 | 9.0 10.0 3.9 2.9 | 129 129 -51 +71 | 780 600 -11.9 +16.6 | 768.1 616.6

P. | ~~15.5~~ | ~~15.4~~ | ~~15.2~~~~6.0~~ | ~~7.0~~~~0.8~~ | ~~0.9~~~~6.9~~ | ~~5.8~~~~12.0~~ | ~~11.9~~ |~~129~~ | ~~128~~~~128~~ | ~~128~~~~+09~~ | ~~-12~~~~-112~~ | ~~-110~~ |~~900~~ | ~~900~~~~900~~ | ~~900~~~~+2.1~~ | ~~-28~~~~-26.2~~ | ~~25.7~~ |~~902.1~~ | ~~897.2~~~~873.8~~ | ~~874.3~~ |

42 | 16.9 7.2 | 0.5 2.0 12.2 10.9 | 127 129 +117 -89 | 960 420

~~+4.0~~ | ~~27.4~~ -20.8 | 987.4 399.2

47 | 21.9 32.7 | 1.0 9.0 11.8 3.9 | 128 129 +108 +51 | 1260 1920 +25.3

+11.9 | 1985.3 1931.9

48 | 25.7 26.4 | 2.9 3.9 10.0 9.0 | 129 129 +71 -51 | 1500 1560 +16.6 -

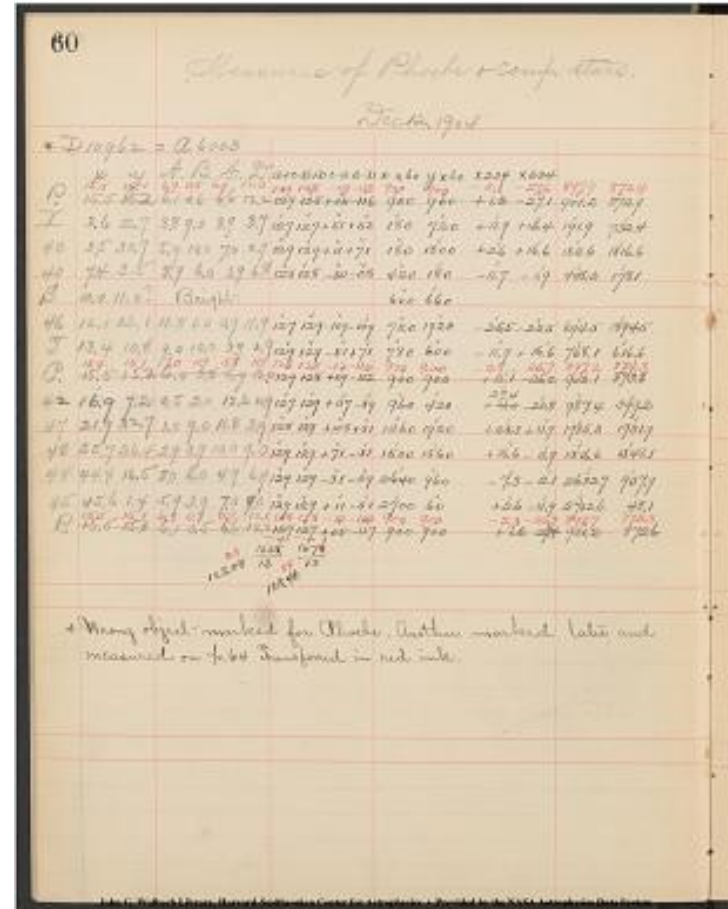
11.9 | 1516.6 1548.1

44 | 44.4 16.5 | 8.0 6.0 4.9 6.9 | 129 129 -31 -09 | 2640 960 -7.3 -2.1 | 2632.7

957.9

45 | 45.6 1.4 | 5.9 3.9 7.0 9.0 | 129 129 +11 -51 | 2700 60 +2.6 -11.9 | 2702.6

48.1 |



P.~~15.5~~15.5  
~~15.3~~15.1 |  
~~6.1~~6.9  
~~0.5~~0.7  
~~6.6~~5.9  
~~12.2~~12.1 |  
~~127~~128  
~~127~~128  
~~+05~~-10  
~~-117~~-114 |  
~~900~~900  
~~900~~900  
~~+1.2~~-2.3  
~~-27.4~~-26.7 |  
~~901.2~~897.7  
~~872.6~~873.3 |  
 | 128.~~08~~(23)  
 166~~5(7)/13~~167~~0(1)/13~~ |  
 | 128.~~46~~(54) |

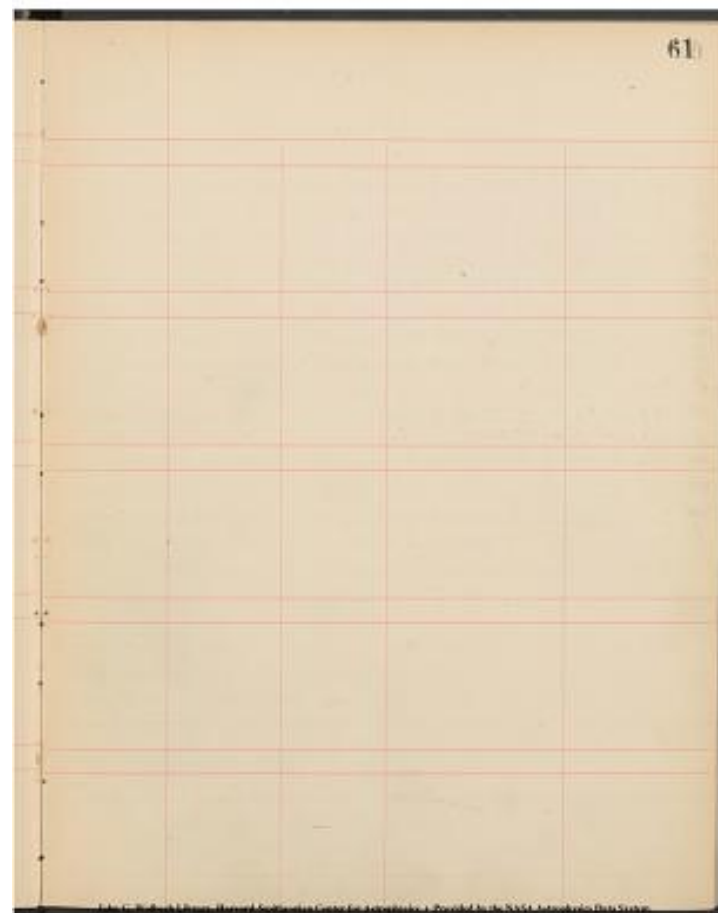
\*Wrong object-marked for Phoebe. Another marked later and measured on h.64 Transferred in red ink.

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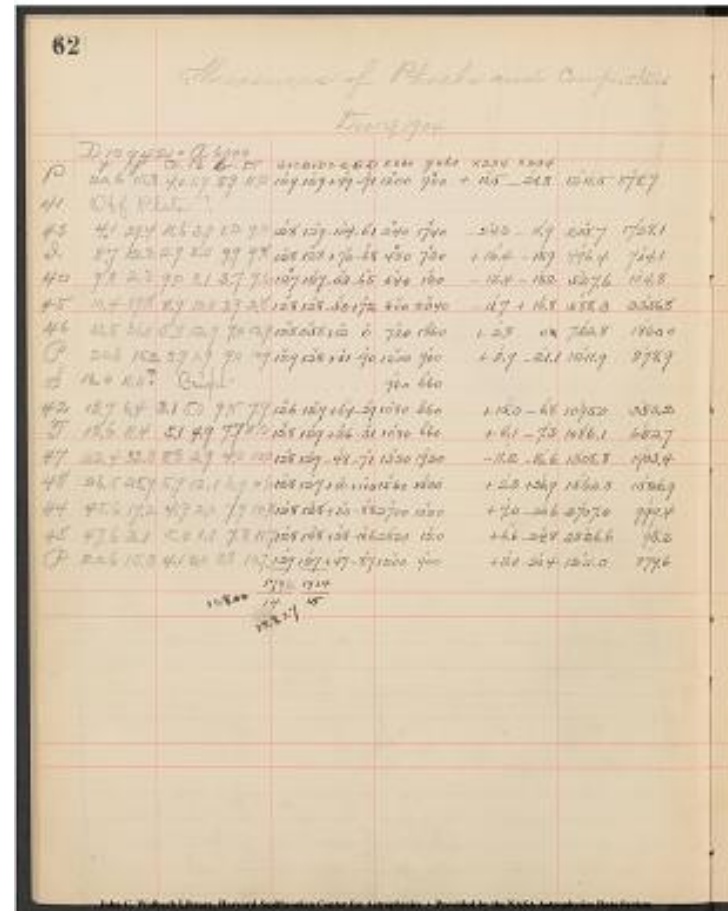
Project PHaEDRA - Evelyn F. Leland - New Satellite of Saturn and North  
Polar Sequence #29  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:40:10

## Measures of Phoebe and Comp stars.

Dec 3, 1904

| | D10942=A6000 | | |  
 | | x y | A. B. C. D | a+c B+D c-a B-D | x x60 yx60 x234 x234 | |  
 | p | 20.6 15.3 | 4.0 1.9 8.9 11.0 | 129^[] 129^[] +49^6[] -91^[] | 1200^[]  
 900^[] +11.5^[] -21.3^[] | 1211.5^[] 878.7^[] |  
 | 41 | Off Plate? | | | |  
 | 43 | 4.1 29.4 | 11.6 3.9 1.2 9.0 | 128^[] 129^[] -104^[] -51^[] | 240^[]  
 1740^[] -24.3^[] -11.9^[] | 215.7^[] 1728.1^[] |  
 | 11 | 8.7 12.3 | 2.9 3.0 9.9 9.8 | 128^[] 128^[] +70^[] -68^[] | 480^[] 720^[]  
 +16.4^[] -15.9^[] | 496.4^[] 704.1^[] |  
 | 40 | 9.3 2.3 | 9.0 3.1 3.7 9.6 | 127^[] 127^[] -53^[] -65^[] | 540^[] 120^[]  
 -12.4^[] -15.2^[] | 527.6^[] 104.8^[] |  
 | 45 | 10.4 39.8 | 8.9 10.0 3.9 2.8 | 128^[] 128^[] -50^[] +72^[] | 600^[]  
 2340^[] -11.7^[] +16.8^[] | 588.3^[] 2356.8^[] |  
 | 46 | 12.5 31.0 | 5.8 12.9 7.0 12.9 | 128^[] 258^[] +12^[] 0^[] | 720^[]  
 1860^[] +2.8^[] 0~~^[]~~ | 722.8^[]  
 1860.0^[] |  
 | P | 20.6 15.2 | 3.9 1.9 | 9.0 10.9 | 129^[] 128^[] +51^[] -90^[] | 1200^[]  
 900^[] +11.9^[] -21.1^[] | 1211.9^[] 878.9^[] |  
 | S | 16.0 11.0? | Bright | 960^[] 660^[] | |  
 | 42 | 18.7 6.4 | 3.1 5.0 9.5 7.9 | 126^[] 129^[] +64^[] -29^[] | 1080^[]  
 360^[] +15.0^[] -6.8^[] | 1095.0^[] 353.2^[] |  
 | U | 18.6 11.4 | 5.1 4.9 7.7 8.0 | 128^[] 129^[] +26^[] -31^[] | 1080^[]  
 660^[] +6.1^[] -7.3^[] | 1086.1^[] 652.7^[] |  
 | 47 | 22.4 32.3 | 8.8 2.9 4.0 10.0 | 128^[] 129^[] -48^[] -71^[] | 1320^[]  
 1920^[] -11.2^[] -16.6^[] | 1308.8^[] 1903.4^[] |  
 | 48 | 26.5 25.9 | 5.9 12.1 6.9 0.6 | 128^[] 127^[] +10^[] +115^[] | 1560^[]  
 1500^[] +2.3^[] +26.9^[] | 1562.3^[] 1526.9^[] |  
 | 44 | 45.6 17.2 | 4.9 20 7.9 10.8 | 128^[] 128^[] +30^[] -88^[] | 2700^[]  
 1020^[] |  
 | 45 | 47.6 2.1 | 5.0 1.1 7.8 11.7 | 128^[] 128^[] +28^[] -106^[] | 2820^[]  
 120^[] +6.6^[] -24.8^[] | 2826.6^[] 95.2^[] |  
 | P | 20.6 15.3 | 4.1 2.0 8.8 10.7 | 129^[]  
 127^[] +47^[] -87^[] | 1200^[] 900^[]  
 +11.0^[] -20.4^[] | 1211.0^[] 879.6^[] |  
 1792^[] 1924^[]  
 128.00 | 14 | 15 |  
 128.27 |

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Measures of Phoebe on plates  
re-marked by W.H.P.

Dec 31, 1904 H.I.S. Rec.

D10962 Measures transferred to p. 60

[6 columns]

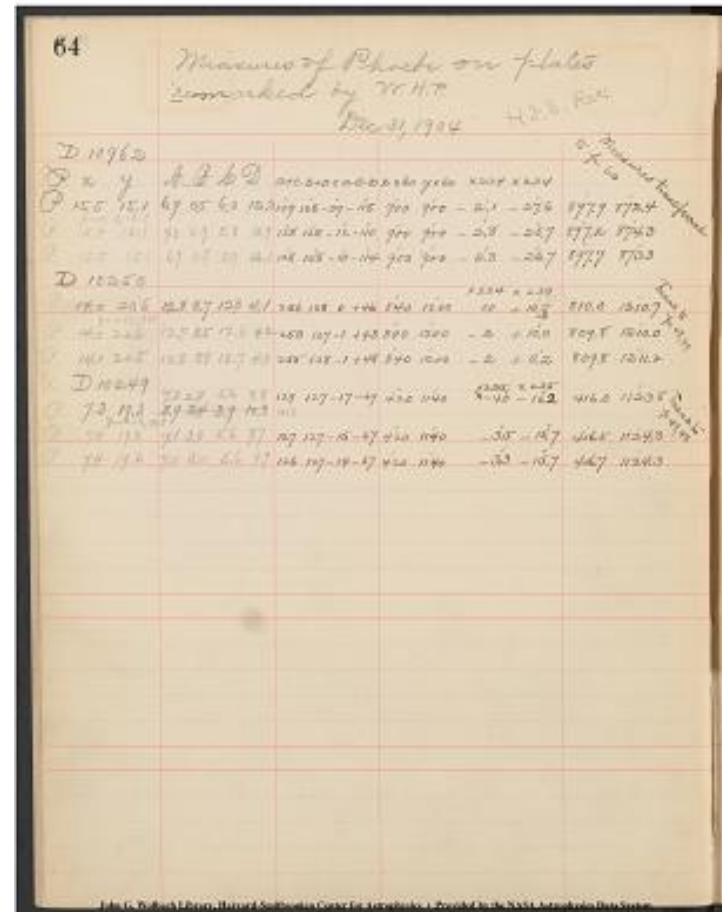
~~[[[P.]]]~~ ~~[[[x y]]]~~ | x y | A B C D | a+c B+D c-a B-D | xx60  
yx60 x234 x234 |  
|----|----|----|----|

IP | 15.5 15.1 | 6.9 0.5 6.0 12.3 | 129<sup>^</sup> | 128<sup>^</sup> | -09<sup>^</sup> | -118<sup>^</sup> | 900<sup>^</sup> |  
900<sup>^</sup> | -2.1<sup>^</sup> | -27.6<sup>^</sup> | 897.9<sup>^</sup> | 872.4<sup>^</sup> |  
IP | 15.4 15.1 | June 13, 1905 | 7.0 0.9 5.8 11.9 | 128<sup>^</sup> | 128<sup>^</sup> | -12<sup>^</sup> |  
-110<sup>^</sup> | 900<sup>^</sup> | 900<sup>^</sup> | -2.8<sup>^</sup> | -25.7<sup>^</sup> | 897.2<sup>^</sup> | 874.3<sup>^</sup> |  
IP | 15.5 15.1 | 6.9 0.7 5.9 12.1 | 128<sup>^</sup> | 128<sup>^</sup> | -10<sup>^</sup> | -114<sup>^</sup> | 900<sup>^</sup> |  
900<sup>^</sup> | -2.3<sup>^</sup> | -26.7<sup>^</sup> | 897.7<sup>^</sup> | 873.3<sup>^</sup> |

|D10250| | |x234 x 233| |

IP | 14.0 20.6 | 12.8 8.7 12.8 4.1 | 256 128 0 +46 | 840<sup>^</sup> | 1200<sup>^</sup> | 0.0 +  
10.7 | 810.0 1210.7 | Trans to for. 48, 49 |  
IP | 14.0 20.6 | June 13, 1905 | 12.7 8.5 12.6 4.2 | 253 127-1 +43 | 840<sup>^</sup> |  
1200<sup>^</sup> | -2 +10.0<sup>^</sup> | 809.8 1210.0 |  
IP | 14.0 20.5 | 12.8 8.8 12.7 4.0 | 255 128-1 +48 | 840<sup>^</sup> | 1200<sup>^</sup> | -2 +  
11.2<sup>^</sup> | 809.8 1211.2 |  
~~[[[C.]]]~~ ~~[[[x235 x235]]]~~  
D10249 | | |x235 x235| |  
IP | 7.3 19.3 | ~~[[[8.9 2.4 3.9 10.3]]]~~ 7.3 2.9 5.6  
9.8 | w.s 129 127-17-69 | 420<sup>^</sup> | 1140<sup>^</sup> | x -4.0<sup>^</sup> | -16.2<sup>^</sup> | 416.0  
1123.8<sup>^</sup> | Trans to for 47, 48 |  
IP | 7.4 19.3 | June 13, 1905 | 7.1 3.0 5.6 9.7 | 127 127-15-67 | 420<sup>^</sup> |  
1140<sup>^</sup> | -3.5<sup>^</sup> | -15.7<sup>^</sup> | 416.5 1124.3 |  
IP | 7.4 19.3 | 7.0 3.0 5.6 9.7 | 126 127-14-67 | 420<sup>^</sup> | 1140<sup>^</sup> | -3.3<sup>^</sup> | -  
15.7<sup>^</sup> | 416.7<sup>^</sup> | 1124.3<sup>^</sup> |

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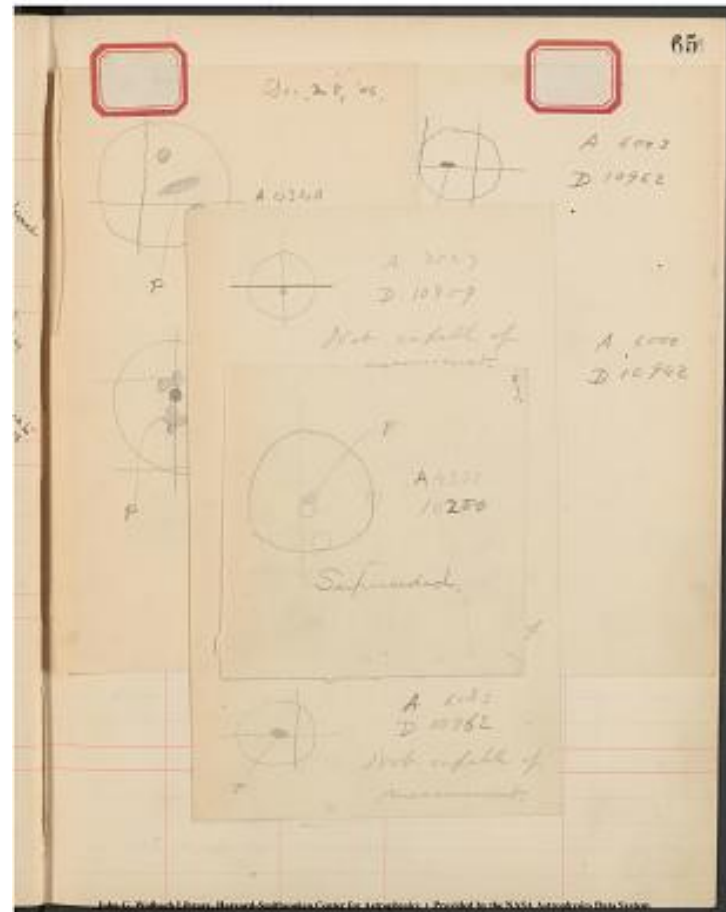
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A 6000  
D 10942

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A 4331  
10250  
Supersided

[image]  
A 6003  
D 10962  
Not capable of measurement

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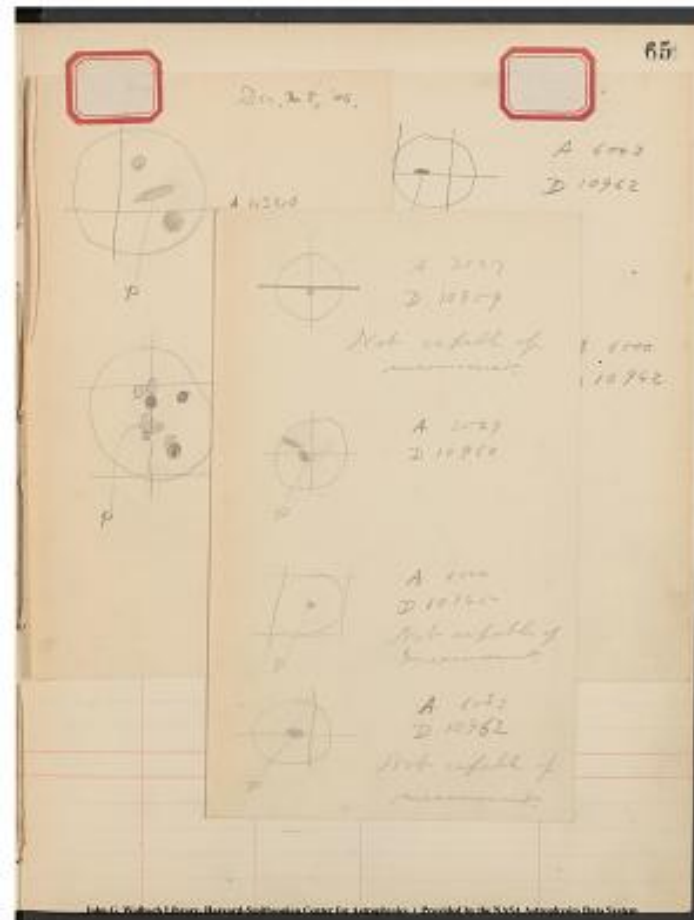
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D 10960

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A 6000  
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Not capable of measurement

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A 6003  
D 10962  
Not capable of measurement  
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65

[[sticker]]  
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P

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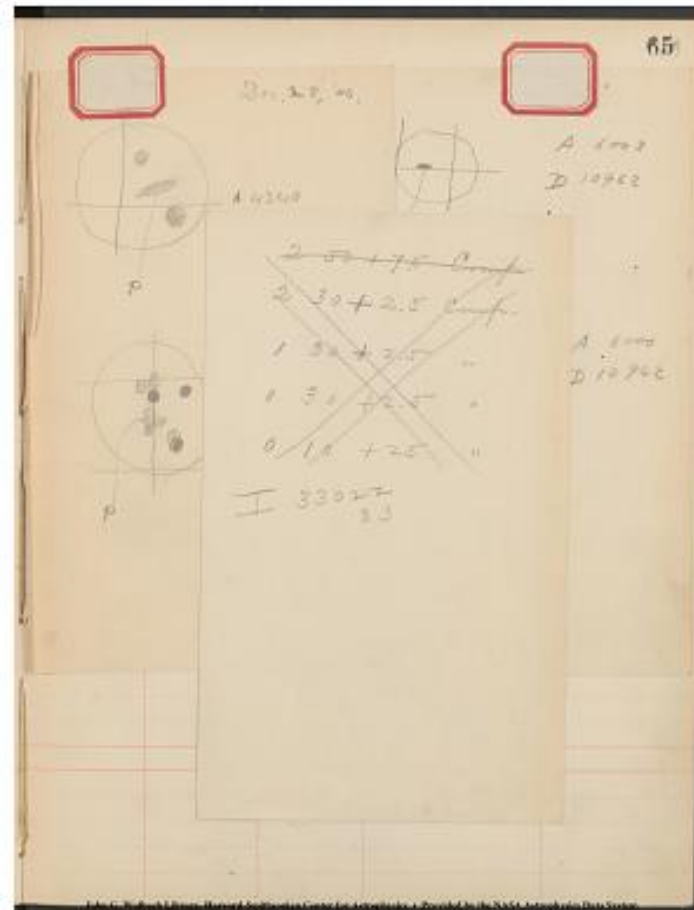
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P

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I33022  
33

A 6000  
D 10942

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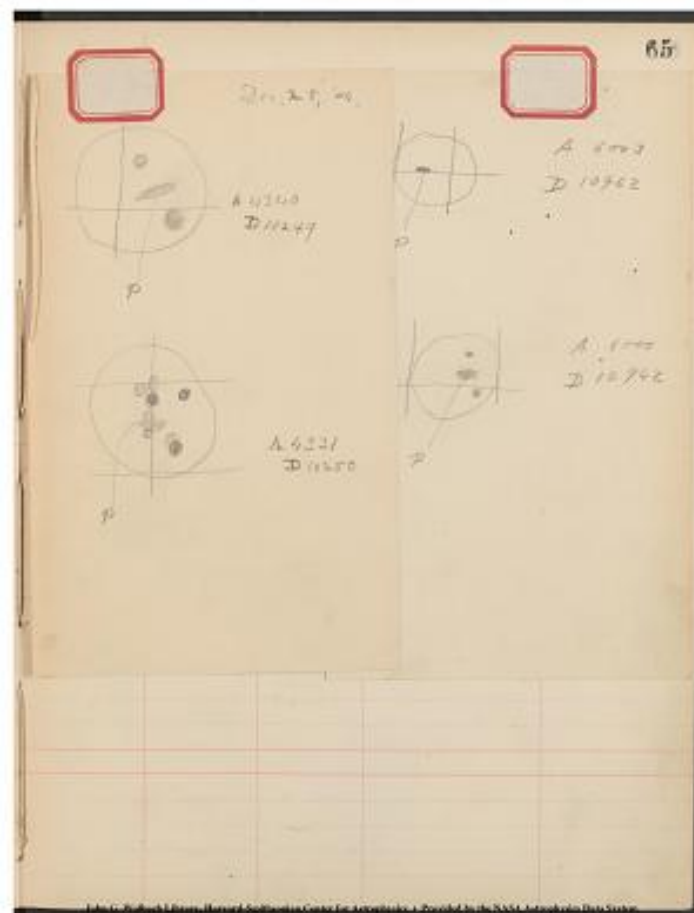
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P D 10942



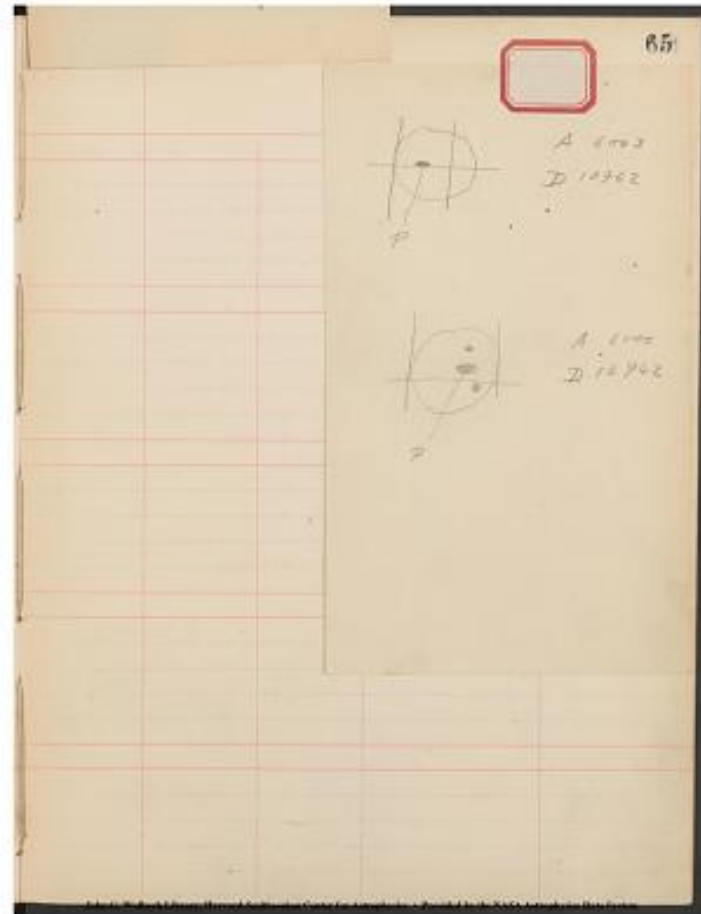
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[[sticker]]

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P D 10962

[[image]] A 6000  
P D 10942



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Measures of positions of stars in vicinity of No. Pole.

April 9, 1910

D14541 (14X17) Read to left and below, right and above M.O'Reilly.  
Rec.

[[5 columns]]

| x | y | A. B. C. D. | a+c B+D c-a B-D |

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

1a | 2.7 | 35.2 | 3.0 | 12.5 | 12.0 | 2.6 | 150 | 151 | +90 | +99 |

1b | 2.4 | 36.8 | 9.9 | 2.0 | 5.1 | 13.0 | 150 | 150 | -48 | -110 |

154=2a | 3.9 | 43.6 | 1.0 | 5.0 | 14.0 | 10.0 | 150 | 150 | +130 | -50 |

2b | 3.6 | 45.4 | 6.0 | 1.00 | 9.0 | 5.0 | 150 | 150 | +30 | +50 |

152=3a | 3.4 | 31.2 | 3.9 | 13.0 | 11.1 | 2.1 | 150 | 151 | +72 | +109 |

3b | 3.3 | 32.8 | 11.9 | 3.0 | 3.1 | 12.1 | 150 | 151 | -88 | -91 |

151=4a | 3.8 | 25.9 | 2.5 | 2.0 | 12.6 | 13.0 | 151 | 150 | +101 | -110 |

4b | 3.3 | 27.5 | 12.0 | 7.1 | 3.0 | 8.0 | 150 | 151 | -90 | -09 |

153=5a | 4.4 | 12.6 | 9.0 | 6.1 | 6.0 | 9.0 | 150 | 151 | -30 | -29 |

5b | 3.6 | 14.3 | 6.0 | 11.1 | 9.0 | 4.0 | 150 | 151 | +30 | +71 |

6a | 3.8 | ~~10.6~~ | ~~8.9~~ | 1.5 | 0.5 | 13.5 | 14.5 | 150 | 150 | +120 | -140 |

6b | 3.0 | 10.6 | 15.0 | 6.0 | 15.1 | 9.1 | 301 | 151 | +01 | -31 |

150=7a | 4.2 | 4.8 | 13.0 | 2.0 | 2.0 | 13.0 | 150 | 150 | -110 | -110 |

7b | 3.3 | 6.5 | 12.0 | 7.5 | 3.0 | 7.6 | 150 | 151 | -90 | -01 |

8a | 5.3 | 44.6 | 13.0 | 7.0 | 2.1 | 8.0 | 151 | 150 | -109 | -10 |

8b | 4.8 | 46.3 | 2.5 | 12.0 | 12.5 | 3.1 | 150 | 151 | +100 | +89 |

164=9a | 6.1 | 32.0 | ~~19.5~~ | 14.5 | 0.5 | 0.5 | 14.5 | 150 | 150 | -140 | -140 |

9b | 5.5 | 33.6 | 7.0 | 6.0 | 8.1 | 9.0 | 151 | 150 | +11 | -30 |

160=10a | 5.7 | 22.6 | 2.5 | 5.0 | 12.6 | 10.0 | 151 | 150 | +101 | -50 |

10b | 5.2 | 24.3 | 13.1 | 10.5 | 2.0 | 4.5 | 151 | 150 | -111 | +65 |

11a | 7.4 | 31.3 | 10.1 | 12.0 | 4.9 | 3.1 | 150 | 151 | -52 | +89 |

11b | 6.7 | 32.8 | 8.0 | 2.9 | 12.0 | 12.1 | 150 | 150 | +90 | -92 |

169=12a | 7.4 | 34.6 | 8.5 | 4.9 | 6.5 | 10.1 | 150 | 150 | -20 | -52 |

12b | 6.7 | 36.4 | 3.5 | 11.0 | 11.5 | 4.1 | 150 | 151 | +80 | +69 |

13a | 7.3 | 7.4 | 10.9 | 10.9 | 4.1 | 4.0 | 150 | 149 | -68 | +69 |

13b | 6.4 | 8.8 | 9.0 | 2.0 | 6.1 | 13.0 | 151 | 151 | -29 | -110 |

150 | 150 | -29 | -110 |

4054 3910

27= 26=

150.26 150.38

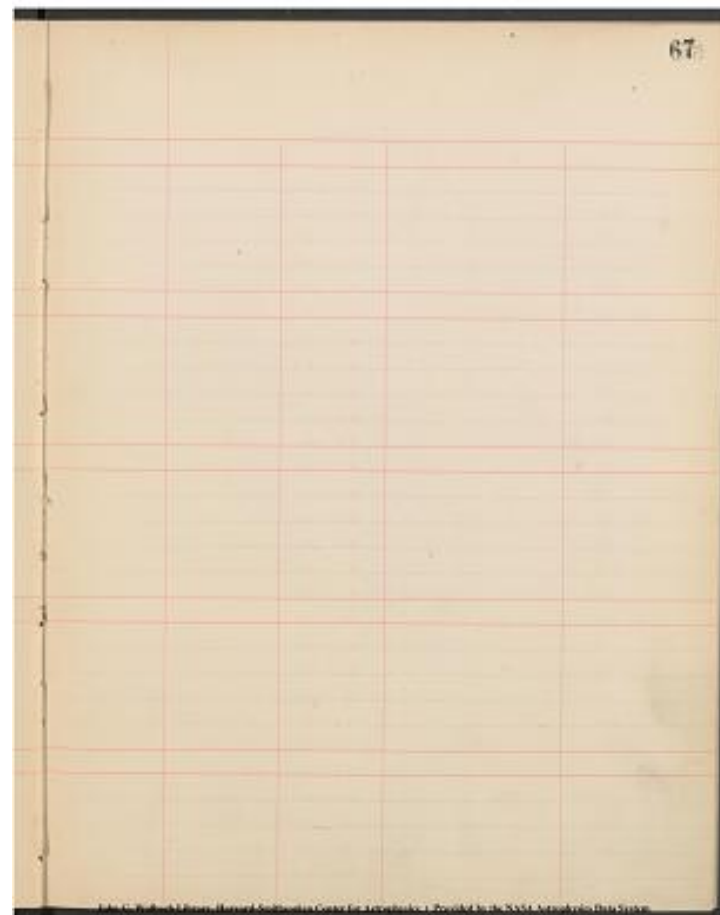
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[[6 column page]]

April 9, 1910.

D145541 (cont)

[[5 columns]]

| X Y|A.B.C.D|a+c B+D|c-a B-D.|

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

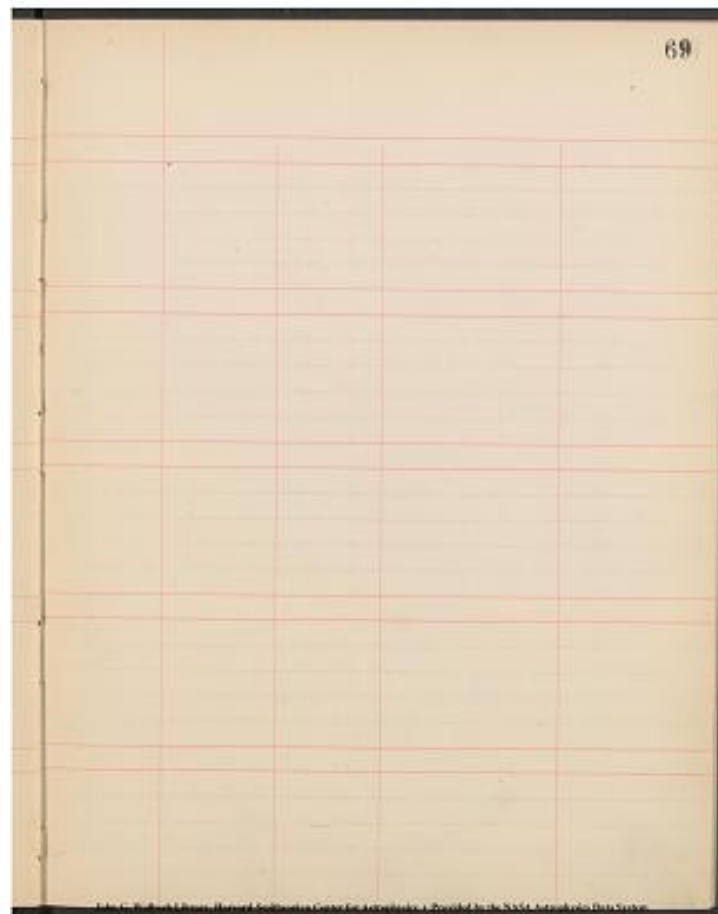
14a|7.4 5.4|8.1 10.9 7.0 4.1|151 150|-11+68|  
 14b|[[Strikethrough]]6.5[[/striketthrough]]|7.5 7.9|7.0 1.5 8.0  
 [[/striketthrough]]14.5[[/striketthrough]]|13.5|150 150|+10-120|  
 15a|8.5 5.3|6.9 11.5 8.1 3.5|150 150|+12+80|  
 15b|7.6 6.8|6.0 3.0 9.1 12.0|151 150|+31-90|  
 176=16a|8.3 32.5|12.1 7.5 3.0 7.6|151 151|-91-01|  
 16b|7.6|34.2|5.0 13.5 10.1 1.5|151 150|+51+120|  
 183=17a|9.4 26.7|8.1 3.0 7.0 12.0|151 150|-11-0|  
 17b|8.9 28.4|2.0 9.5 13.0 5.6|150 151|+110+39|  
 186=18a|9.9 24.4|1.9 9.9 13.1 5.0|150 149|+112+49|  
 18b|9.3 25.9|11.5 1.0 3.5 14.0|150 150|-80-130|  
 41=19a|10.6 20.4|5.5 11.0 9.5 4.0|150 150|+40+70|  
 19b|9.9 21.8|1.0 2.5 14.0 12.6|150 151|+130-101|  
 29=20a|10.6|19.1|4.9 14.5 10.1 0.5|150 150|+52+140|  
 20b|10.0 19.1|0.1[[/striketthrough]]5.0[[/striketthrough]]|6.0 14.9 9.0|150  
 150|+148-30|  
 21a|9.6 17.9|6.0 1.0 9.1 14.0|150 150|+31-130|  
 21b|8.9 19.5|1.5 7.5 13.6 7.5|151 150|+121 00|  
 22a|11.1 10.9|14.0 2.0 1.1 13.0|151 150|-129-110|  
 22b|10.3 12.4|11.5 9.0 3.5 6.0|150 150|-80+30|  
 23a|11.5 10.4|8.0 9.9 7.0 5.1|150 150|-10+48|  
 23b|9.6 11.9|6.0 1.5 9.1 13.5|151 150|+31-120|  
 24.a|11.4 4.5|9.5 8.0 5.5 7.0|150 150|-40+10|  
 24.b|10.4 6.0|8.9 14.9 6.1 0.1|150 150|-28+148|  
 34=25a|10.5 27.7|7.5 3.6 7.5 11.4|150 150|00-78|  
 25b|9.9 29.4|1.1 10.1 13.9 5.0|150 151|+128+41|  
 188+26a|10.4 25.4|9.0 9.9 6.0 5.1|150 150|-30+48|  
 26b|9.8 26.9|3.0 1.0 12.1 14.0|151 150|+91-130|  
 | | |3910/26 3903/2| |  
 | | |150.38 15012| |

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[[NO INPUT]]



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April 9, 1910

D |14541 (cont)

| x y | A. B. C. D. | A+C B+D | C-A B-D |  
 202=27a|12.2 24.1|12.5 14.0 2.6 1.0 |151 150|-99 +130|  
 27b|11.5 25.6|6.9 6.0 8.2 9.0 |151 150|+13 -30|  
 208=28a|12.6 44.5|6.0 8.0 9.0 7.0 |150 150|+30 +10|  
 28b|12.3 46.0|11.0 15.0 4.1 15.0 |151 300|-69 00|  
 29a|12.8 43.1|3.0 13.1 12.0 2.0 |150 151|+90 +111|  
 29b|12.5 44.6|~~7.0~~ ~~8.0~~ 5.5 7.0 9.5  
 |150 150|-10 -40|  
 30a|12.9 35.2|0.5 13.0 14.6 2.0 |151 150|+141 +110|  
 30b|12.5 36.6|8.0 5.0 7.1 10.0 |151 150|-09 -50|  
 31a|13.2 ~~13.4~~ ~~13.4~~ |13.4 ~~13.0~~ 11.0 2.1  
 4.1|151 151|-109 +69|  
 31b|12.6 31.8|6.0 2.9 9.0 12.1 |150 150|+30 -92|  
 32a|14.1 29.4|14.0 9.0 1.0 6.0 |150 150|-130 +30|  
 32b|13.5 30.9|7.0 1.5 8.0 ~~14.6~~  
 13.6|150 151|+10 -121|  
 213=33a|14.0 21.0|0.1 15.0 14.9 15.0 |150 300|+148 00|  
 33b|14.4 22.5|10.9 7.1 4.1 7.9 |150 150|-68 -08|  
 40= 34a|13.7 18.3|3.1 12.0 12.0 3.0 |151 150|+89 +89|  
 34b|13.1 19.7|14.0 4.5 1.0 10.6 |150 151|-130 -61|  
 35a|13.4 16.4|10.1 9.1 4.9 6.1 |150 152|-52 +30|  
 35b|12.5 17.9|7.0 1.5 8.0 13.5 |150 150|+10 -120|  
 210=36a|13.7 2.9 |2.9 1.5 12.1 13.5 |150 150|+92 -120|  
 36b|12.8 4.4 |2.0 9.0 13.0 6.1 |150 151|+110 +29|  
 214=37a|14.6 3.8 |5.9 1.0 9.1 14.0 |150 150|+32 -130|  
 37b|13.6 5.4 |5.0 9.0 10.0 6.0 |150 150|+50 +30|  
 158=38a|5.1 34.5|13.5 6.5 1.5 8.5 |150 150|-120 -20|  
 38b|4.6 36.2|6.0 12.1 9.1 3.0 |151 151|+31 +91|  
 39a|13.2 45.6|12.5 6.0 2.5 9.0 |150 150|-100 -30|  
 39b|12.9 47.1|2.1 13.5 13.0 1.5 |151 150|+109 +120|

3909 4208

26 28

150.35 150.29

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April 9, 1910

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	x	y	A	B	C	D	A+C	B+D	C-A	B-D
202=27a	12.2	24.1	12.5	14.0	2.6	1.0	151	150	-99	+130
27b	11.5	25.6	6.9	6.0	8.2	9.0	151	150	+13	-30
208=28a	12.6	44.5	6.0	8.0	9.0	7.0	150	150	+30	+10
28b	12.3	46.0	11.0	15.0	4.1	15.0	151	300	-69	00
29a	12.8	43.1	3.0	13.1	12.0	2.0	150	151	+90	+111
29b	12.5	44.6	<del>7.0</del>	<del>8.0</del>	5.5	7.0	9.5			
							150	150	-10	-40
30a	12.9	35.2	0.5	13.0	14.6	2.0	151	150	+141	+110
30b	12.5	36.6	8.0	5.0	7.1	10.0	151	150	-09	-50
31a	13.2	<del>13.4</del>	<del>13.4</del>	13.4	<del>13.0</del>	11.0	2.1			
4.1	151	151	-109	+69						
31b	12.6	31.8	6.0	2.9	9.0	12.1	150	150	+30	-92
32a	14.1	29.4	14.0	9.0	1.0	6.0	150	150	-130	+30
32b	13.5	30.9	7.0	1.5	8.0	<del>14.6</del>				
							150	151	+10	-121
213=33a	14.0	21.0	0.1	15.0	14.9	15.0	150	300	+148	00
33b	14.4	22.5	10.9	7.1	4.1	7.9	150	150	-68	-08
40= 34a	13.7	18.3	3.1	12.0	12.0	3.0	151	150	+89	+89
34b	13.1	19.7	14.0	4.5	1.0	10.6	150	151	-130	-61
35a	13.4	16.4	10.1	9.1	4.9	6.1	150	152	-52	+30
35b	12.5	17.9	7.0	1.5	8.0	13.5	150	150	+10	-120
210=36a	13.7	2.9	2.9	1.5	12.1	13.5	150	150	+92	-120
36b	12.8	4.4	2.0	9.0	13.0	6.1	150	151	+110	+29
214=37a	14.6	3.8	5.9	1.0	9.1	14.0	150	150	+32	-130
37b	13.6	5.4	5.0	9.0	10.0	6.0	150	150	+50	+30
158=38a	5.1	34.5	13.5	6.5	1.5	8.5	150	150	-120	-20
38b	4.6	36.2	6.0	12.1	9.1	3.0	151	151	+31	+91
39a	13.2	45.6	12.5	6.0	2.5	9.0	150	150	-100	-30
39b	12.9	47.1	2.1	13.5	13.0	1.5	151	150	+109	+120

3909 4208

26 28

150.35 150.29

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Project PhaEDRA - Evelyn F. Leland - New Satellite of Saturn and North  
Polar Sequence #29  
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[[no input]]

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April 9, 1910

D14541 (cont)

| x y | A. B. C. D. | A+C B+D C-A B-D |  
 47=53a|17.9 34.4|0.5 9.5 14.5 5.6 |150 151 +140 +39 |  
 53b|17.4 35.8|8.0 2.0 7.0 13.0|150 150 -10 -110|  
 54a|17.5 33.5|6.1 7.5 9.0 7.5 |151 150 +29 00|  
 54b|17.1 34.9|13.9 0.5 1.1 14.5|150 150 -128 -140|  
 55a|18.5 5.5 |8.0 7.5 7.0 7.5 |150 150 -10 00|  
 55b|17.6 7.0 |8.0 0.5 7.0 14.6|150 151 -10 -141|  
 240=56a|18.6 4.4 |4.1 10.0 11.0 5.0 |151 150 +69 +50 |  
 56b|17.7 5.7 |3.5 3.5 11.6 11.5|151 150 +81 -80 |  
 244=57a|19.9 10.4|1.9 9.0 13.1 6.0 |150 150 +112 +30 |  
 57b|19.1 11.7|14.9 3.1 0.1 12.0|150 151 -148 -89 |  
 256=58a|21.0 11.5|15.0 6.0 15.1 9.0 |301 150 +01 -30 |  
 58b|20.2 13.0|12.6 15.0 2.5 15.1|151 301 -101 -01 |  
 38=59a|20.4 33.5|9.9 7.0 5.1 8.0 |150 150 -48 -10 |  
 59b|19.8 34.9|2.0 1.0 13.0 14.0|150 150 +110 -130|  
 42=60a|20.6 31.7|5.5 3.1 9.6 11.9|151 150 +41 -88 |  
 60b|20.1 33.3|13.1 12.0 1.9 3.0 |150 150 -112 +90 |  
 4[[~~strickethrough~~]]3[[~~strickethrough~~]]8=61a|20.6  
 30.6[[~~strickethrough~~]]5[[~~strickethrough~~]]6.0 4.9 9.0 10.1|150 150 +30 -  
 52 |  
 61b|20.1 32.1|14.0 13.5 1.0 1.5 |150 150 -130 +120|  
 4[[~~strickethrough~~]]8[[~~strickethrough~~]]3=62a|20.8 26.9|2.1 2.0 13.0  
 13.0|151 150 +109 -110|  
 62b|20.4 28.4|11.1 10.9 3.9 4.1 |150 150 -42 +68 |  
 63a|21.1 27.1|13.0 14.9 2.0 0.2 |150 151 -110 +144|  
 63b|20.5 28.4|6.9 9.0 8.1 6.0 |150 150 +12 +30 |  
 36=64a|22.2 23.8|12.0 3.0 3.0 12.1|150 151 -90 -91 |  
 64b|21.5 25.2|6.5 12.0 8.5 3.0 |150 150 +20 +90 |  
 33=65a|21.5 41.9|7.9 0.9 7.1 14.1|150 150 -08 -132|  
 65b|21.2 43.4|13.1 10.0 2.0 5.1 |151 151 -111 +49 |  
 4058 4057  
 27 27  
 150.30 150.26

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	x	y	A.	B.	C.	D.	A+C	B+D	C-A	B-D
47=53a	17.9	34.4	0.5	9.5	14.5	5.6	150	151	+140	+39
53b	17.4	35.8	8.0	2.0	7.0	13.0	150	150	-10	-110
54a	17.5	33.5	6.1	7.5	9.0	7.5	151	150	+29	00
54b	17.1	34.9	13.9	0.5	1.1	14.5	150	150	-128	-140
55a	18.5	5.5	8.0	7.5	7.0	7.5	150	150	-10	00
55b	17.6	7.0	8.0	0.5	7.0	14.6	150	151	-10	-141
240=56a	18.6	4.4	4.1	10.0	11.0	5.0	151	150	+69	+50
56b	17.7	5.7	3.5	3.5	11.6	11.5	151	150	+81	-80
244=57a	19.9	10.4	1.9	9.0	13.1	6.0	150	150	+112	+30
57b	19.1	11.7	14.9	3.1	0.1	12.0	150	151	-148	-89
256=58a	21.0	11.5	15.0	6.0	15.1	9.0	301	150	+01	-30
58b	20.2	13.0	12.6	15.0	2.5	15.1	151	301	-101	-01
38=59a	20.4	33.5	9.9	7.0	5.1	8.0	150	150	-48	-10
59b	19.8	34.9	2.0	1.0	13.0	14.0	150	150	+110	-130
42=60a	20.6	31.7	5.5	3.1	9.6	11.9	151	150	+41	-88
60b	20.1	33.3	13.1	12.0	1.9	3.0	150	150	-112	+90
4[[ <del>strickethrough</del> ]]3[[ <del>strickethrough</del> ]]8=61a	20.6	30.6	[[ <del>strickethrough</del> ]]	[[ <del>strickethrough</del> ]]	5	[[ <del>strickethrough</del> ]]	6.0	4.9	9.0	10.1
150 150 +30 -52										
61b	20.1	32.1	14.0	13.5	1.0	1.5	150	150	-130	+120
4[[ <del>strickethrough</del> ]]8[[ <del>strickethrough</del> ]]3=62a	20.8	26.9	2.1	2.0	13.0	13.0	151	150	+109	-110
62b	20.4	28.4	11.1	10.9	3.9	4.1	150	150	-42	+68
63a	21.1	27.1	13.0	14.9	2.0	0.2	150	151	-110	+144
63b	20.5	28.4	6.9	9.0	8.1	6.0	150	150	+12	+30
36=64a	22.2	23.8	12.0	3.0	3.0	12.1	150	151	-90	-91
64b	21.5	25.2	6.5	12.0	8.5	3.0	150	150	+20	+90
33=65a	21.5	41.9	7.9	0.9	7.1	14.1	150	150	-08	-132
65b	21.2	43.4	13.1	10.0	2.0	5.1	151	151	-111	+49
4058 4057										
27 27										
150.30 150.26										

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April 11, 1910  
D14541 cont

[[11 columns]]

	x y A.	B.	C.	D.	A+C B+D C-A B-D
	--	--	--	--	--

28=66a|23.1|41.1|14.1|14.0|1.0|1.0|151|150|-131|+130|  
66b|22.6|42.5|5.0|7.5|10.0|7.6|150|151|+50|-01|  
277=67a|24.2|43.9|120|2.1|3.1|13.0|151|151|-89|-99|  
67b|23.8|45.3|2.0|11.9|13.0|3.1|150|150|+110|+88|  
46=68a|25.1|39.3|13.5|11.4|1.5|3.6|150|150|-120|+78|  
68b|24.6|40.6|5.0|6.5|10.0|8.5|150|150|+50|-20|  
69a|25.3|32.4|12.5|4.9|2.6|10.1|151|151|-99|-52|  
69b|24.6|34.1|5.0|13.5|10.0|1.5|150|150|+50|+120|  
49=70a|24.6|23.1|3.5|14.9|11.5|0.1|150|150|+80|+148|  
70b|24.1|24.4|13.9|9.1|1.1|6.0|150|151|-128|+31|  
50=71a|25.4|24.4|10.0|9.9|5.0|5.1|150|150|-50|+48|  
71b|24.6|25.8|4.5|3.1|10.5|12.0|150|151|+60|-89|  
3[[/striketrough]]5[[/striketrough]]X=72a|26.1|36.2  
[[/striketrough]]3.5|13.0|11.6|2.0[[/striketrough]]14.  
12.1|1.1|13.0|151|151|-129|+91|  
72b|25.6|37.5[[/striketrough]]12.1|8.0|2.9|7.0[[/striketrough]]5.1|7.6|9.  
9|7.5|150|151|+48|+01|  
3X^A[[/striketrough]]5[[/striketrough]]=73a|25.7|27.2|3.5|13.0|11.6|2.0|1  
51|150|+81|+110|  
73b|25.3|28.5|12.1|8.0|2.9|7.0|150|150|-92|+10|  
74a|25.8|10.9|2.5|2.0|12.6|13.0|151|150|+101|-110|  
74b|24.0|12.3|15.0|12.1|15.0|3.0|300|151|00|+91|  
75a|26.4|41.9|8.1|0.9|6.9|14.1|149|150|-12|-132|  
75b|26.1|43.3|14.0|11.0|1.0|4.0|150|150|-130|+70|  
52=76a|26.9|30.6|0.5|5.0|14.5|10.1|150|151|+140|-51|  
76b|26.4|32.0|8.9|15.0|6.1|15.1|150|301|-28|-01|  
44=77a|26.6|18.8|5.0|2.0|10.0|13.1|150|151|+50|-111|  
77b|25.9|20.3|0.9|12.0|14.1|3.0|150|150|+132|+90|  
78a|27.2|17.1|12.5|14.0|2.6|1.1|151|151|-99|+129|  
78b|26.4|18.5|9.0|9.1|6.0|6.0|[[/underlined]]150[[/underlined]]|[[/underline  
d]]151[[/underlined]]|-30|+31|  
[[/underlined]]4056[[/underlined]]|[[/underlined]]4063[[/underlined]]| | |  
27 | 27 |  
150.22|150.48| | |

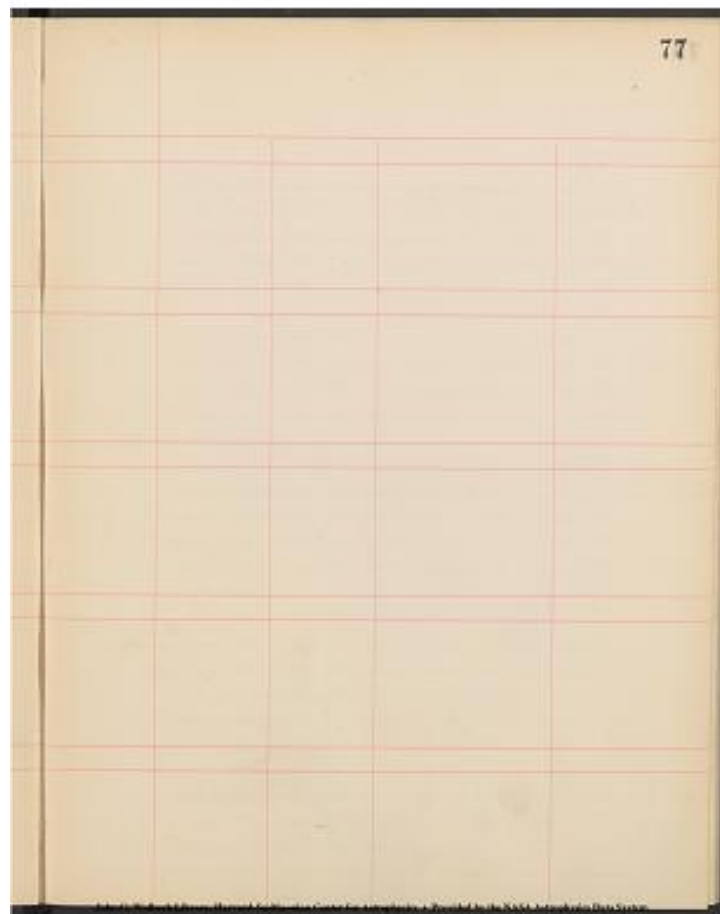
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[illegible]

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77

[[no input]]



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78

April 12, 1910

D14541(cont)

[[11 columned table]]

| x | y | A. | B. | C. | D. | A+C | B+D | C-A | B-D |

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

79a 27.6 | 12.4 | 6.0 | 8.0 | 9.0 | 7.1 | 150 | 151 | +30 | +09 |  
 79b 26.7 | 13.7 | 3.0 | 3.5 | 12.0 | 11.5 | 150 | 150 | +90 | -80 |  
 80a 27.5 | 43.5 | 7.0 | 8.0 | 8.1 | 7.0 | 151 | 150 | +11 | +10 |  
 80b 27.3 | 44.8 | 12.0 | 3.0 | 3.1 | 12.0 | 151 | 150 | -89 | -90 |  
 81a 27.7 | 34.5 | 2.6 | 6.9 | 12.4 | 8.1 | 150 | 150 | +98 | -12 |  
 81b 27.4 | 35.9 | 10.1 | 2.1 | 5.0 | 12.9 | 151 | 150 | -51 | -108 |  
 295 = 82a 28.5 | 43.1 | 7.5 | 13.9 | 7.6 | 1.1 | 151 | 150 | +01 | +128 |  
 82b 28.2 | 44.4 | 12.9 | 9.5 | 2.1 | 5.6 | 150 | 151 | -108 | +39 |  
 32 = 83a 29.9 | 40.9 | 2.0 | 0.5 | 13.0 | 14.5 | 150 | 150 | +110 | -140 |  
 83b 29.5 | 42.3 | 8.0 | 11.9 | 7.0 | 3.1 | 150 | 150 | -10 | +88 |  
 29 = 84a 30.2 | 33.9 | 12.9 | 1.5 | 2.1 | 13.5 | 150 | 150 | -108 | -120 |  
 84b 29.6 | 35.2 | 49 | 12.9 | 10.1 | 2.2 | 150 | 151 | +52 | +104 |  
 51 = 85a 30.6 | 29.6 | 4.5 | 5.4 | 10.5 | 9.6 | 150 | 150 | +60 | -42 |  
 85b 30.2 | 30.9 | 12.9 | 1.5 | 2.1 | 13.5 | 150 | 150 | -108 | -120 |  
 86a 29.9 | ~~3~~ 27.1 | 0.9 | 13.0 | 14.1 | 2.0 | 150 | 150 | +132 | +110 |  
 86b 29.4 | ~~3~~ 28.4 | 9.9 | 9.0 | 5.1 | 6.1 | 150 | 151 | -48 | +29 |  
 87a 30.6 | 28.6 | 5.0 | 5.9 | 10.0 | 9.1 | 150 | 150 | +50 | -32 |  
 87b 30.1 | 29.9 | 13.5 | 2.0 | 1.6 | 13.0 | 151 | 150 | -119 | -110 |  
~~2.99~~ 2.99 ~~2.01~~ = 88a 30.4 | 18.0 | 8.5 | 15.0 | 6.5 | 15.1 | 150 | 301 | -20 | -01 |  
 88b 29.6 | 19.4 | 4.5 | 11.0 | 10.5 | 4.1 | 150 | 151 | +60 | +69 |  
 299 = 89a 30.1 | ~~19.6~~ 18.4 | 14.0 | 14.5 | 1.0 | 0.5 | 150 | 150 | -130 | +140 |  
 89b 29.4 | 19.6 | 10.0 | 5.1 | 5.1 | 10.0 | 151 | 151 | -49 | -49 |  
 304 = 90a 31.4 | 6.5 | 10.9 | 7.5 | 4.1 | 7.5 | 150 | 150 | -68 | 00 |  
 90b 30.4 | 7.7 | 9.5 | 3.9 | 5.6 | 11.1 | 151 | 150 | -39 | -72 |  
 91a 31.3 | 34.6 | 11.9 | 6.5 | 3.1 | 8.5 | 150 | 150 | -88 | -20 |  
 91b 30.7 | 35.8 | 3.5 | 2.5 | 11.6 | 12.5 | 151 | 151 | +81 | -100 |

| | | | | 3908 |4054 | | || | | | | 26 | 27 | |  
 | | | | | 150.31 | 150.26 | |

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Revised Table 3

x	y	A.	B.	C.	D.	A+C	B+D	C-A	B-D
79a	27.6	12.4	6.0	8.0	9.0	7.1	150	151	+30 +09
79b	26.7	13.7	3.0	3.5	12.0	11.5	150	150	+90 -80
80a	27.5	43.5	7.0	8.0	8.1	7.0	151	150	+11 +10
80b	27.3	44.8	12.0	3.0	3.1	12.0	151	150	-89 -90
81a	27.7	34.5	2.6	6.9	12.4	8.1	150	150	+98 -12
81b	27.4	35.9	10.1	2.1	5.0	12.9	151	150	-51 -108
295 = 82a	28.5	43.1	7.5	13.9	7.6	1.1	151	150	+01 +128
82b	28.2	44.4	12.9	9.5	2.1	5.6	150	151	-108 +39
32 = 83a	29.9	40.9	2.0	0.5	13.0	14.5	150	150	+110 -140
83b	29.5	42.3	8.0	11.9	7.0	3.1	150	150	-10 +88
29 = 84a	30.2	33.9	12.9	1.5	2.1	13.5	150	150	-108 -120
84b	29.6	35.2	49	12.9	10.1	2.2	150	151	+52 +104
51 = 85a	30.6	29.6	4.5	5.4	10.5	9.6	150	150	+60 -42
85b	30.2	30.9	12.9	1.5	2.1	13.5	150	150	-108 -120
86a	29.9	<del>3</del> 27.1	0.9	13.0	14.1	2.0	150	150	+132 +110
86b	29.4	<del>3</del> 28.4	9.9	9.0	5.1	6.1	150	151	-48 +29
87a	30.6	28.6	5.0	5.9	10.0	9.1	150	150	+50 -32
87b	30.1	29.9	13.5	2.0	1.6	13.0	151	150	-119 -110
<del>2.99</del> 2.99 <del>2.01</del>									= 88a 30.4   18.0   8.5   15.0
88b	29.6	19.4	4.5	11.0	10.5	4.1	150	151	+60 +69
299 = 89a	30.1	<del>19.6</del> 18.4							14.0   14.5
									1.0   0.5   150   150   -130 +140
89b	29.4	19.6	10.0	5.1	5.1	10.0	151	151	-49 -49
304 = 90a	31.4	6.5	10.9	7.5	4.1	7.5	150	150	-68 00
90b	30.4	7.7	9.5	3.9	5.6	11.1	151	150	-39 -72
91a	31.3	34.6	11.9	6.5	3.1	8.5	150	150	-88 -20
91b	30.7	35.8	3.5	2.5	11.6	12.5	<u>151</u>	<u>151</u>	<u>+81</u> <u>-100</u>

3908 - 4054

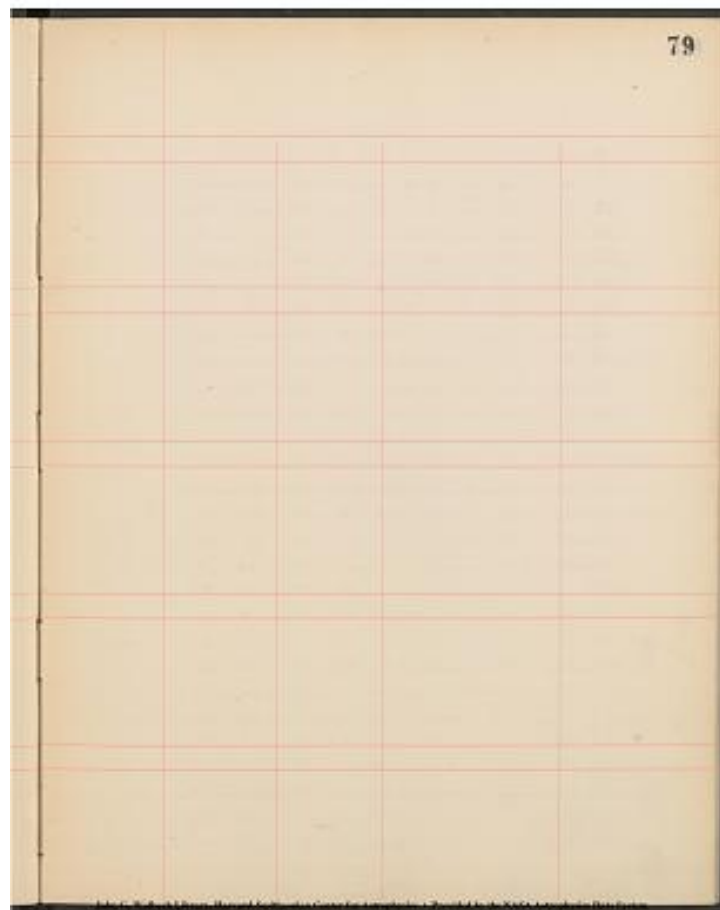
26 - 27

150.31 - 150.26

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81

[[no input]]



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D14541(cont)

[[5 columns]]

| x y|A. B. C. D.|A+C B+D|C-A B-D|

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

105a|34.5 10.6|8.0 3.9 7.0 11.1|150 150 |-10 -72|  
 105b|33.6 11.9|5.5 1.0 ~~10.0~~|9.5 14.1|150  
 151|+40 -131|  
 106a|34.9 10.4|1.5 10.0 13.6 5.1|151 151|+121 +49|  
 106b|34.0 11.5|14.1 7.0 1.0 8.0|151 150|-131 -10|  
 107a|35.4 9.4|11.0 11.9 4.0 3.1|150 150|-40 +88|  
 107b|34.4 10.4|~~8.0~~|9.0 9.0 6.0 6.0|150  
 150|-30 +30|  
 341=108a|36.1 7.9|14.5 0.9 0.5 14.1|150 150|-140 -132|  
 108b|35.2 9.2|13.0 13.1 2.1 1.9|151 150|-109 +112|  
 109a|35.6 11.4|4.0 9.5 11.1 5.6|151 151|+71 +39|  
 109b|34.9 12.5|1.5 6.9 13.5 8.1|150 150|+120 -12|  
 339=110a|35.6 13.4|4.0 11.0 11.0 4.1|150 151|+70 +69|  
 110b|34.9 14.5|1.5 8.0 13.6 7.0|151 150|+121 +10|  
 45=111a|35.1 28.7|13.5 4.5 1.5 10.6|150 151|-120 -61|  
 111b|34.5 29.9|7.1 1.5 8.0 13.5|151 150|+09 -120|  
 343=112a|35.7 41.6|2.9 6.0 12.1 9.0|150 150|+92 -30|  
 112b|35.4 42.7|8.5 3.0 6.5 12.0|150 150|-20 -90|  
 113a|36.4 41.4|11.1 10.5 3.9 4.5|150 150 |-72 +60|  
 113b|35.8 42.5|2.0 8.0 13.0 6.9|150 149|+110 +11|  
 114a|37.2 16.3|13.1 11.0 1.9 4.0|150 150|-112 +70|  
 114b|36.4 17.4|9.5 8.9 5.5 6.1|150 150|-40 +28|  
 347=115a|37.5 7.4|8.1 9.5 6.9 5.5|150 150|-12 +40|  
 115b|36.5 8.5|7.0 7.0 8.0 8.1|150 151|+10 +11|  
 116a|37.6 5.7|6.1 3.0 8.9 12.0|150 150|+28 -90|  
 116b|36.6 6.9|5.0 0.9 10.0 14.2|150 151|+50 -133|  
 117a|36.4 6.0|7.9 15.0 7.1 15.0|150 300|-08 00|  
 117b|35.5 7.3|7.0 12.5 8.0 2.5|150 150|+10  
 +100|  
	3906 4056	
	26 27	
	150.23 150.22	

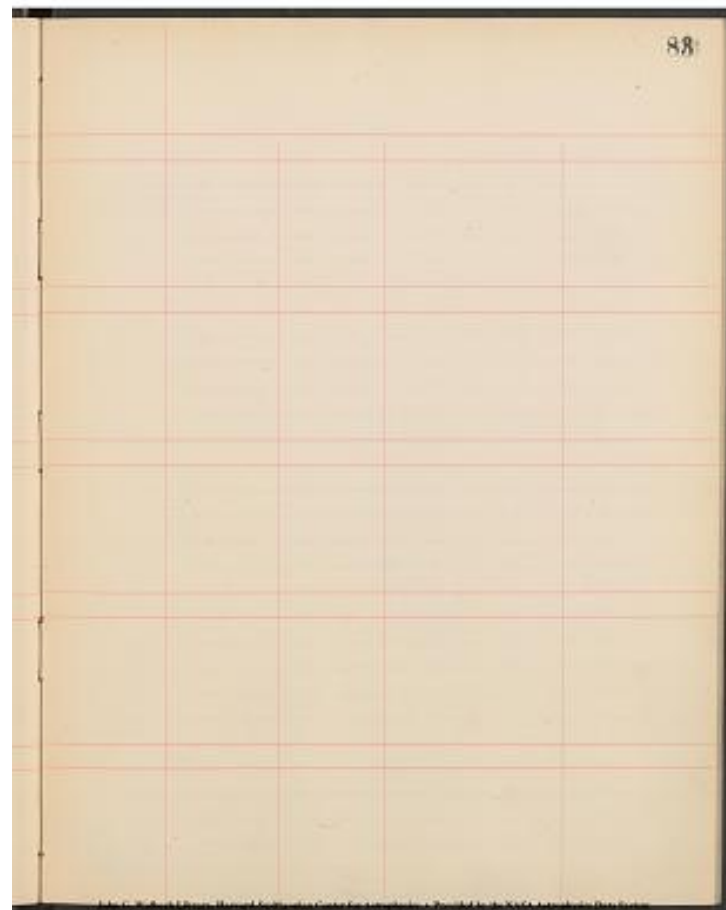
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84  
April 12, 1910-  
D14541 (cont)

[[5 columns]]  
[x y] A. B. C. D. [A+C B+D] [C-A B-D]  
|---|---|---|---|

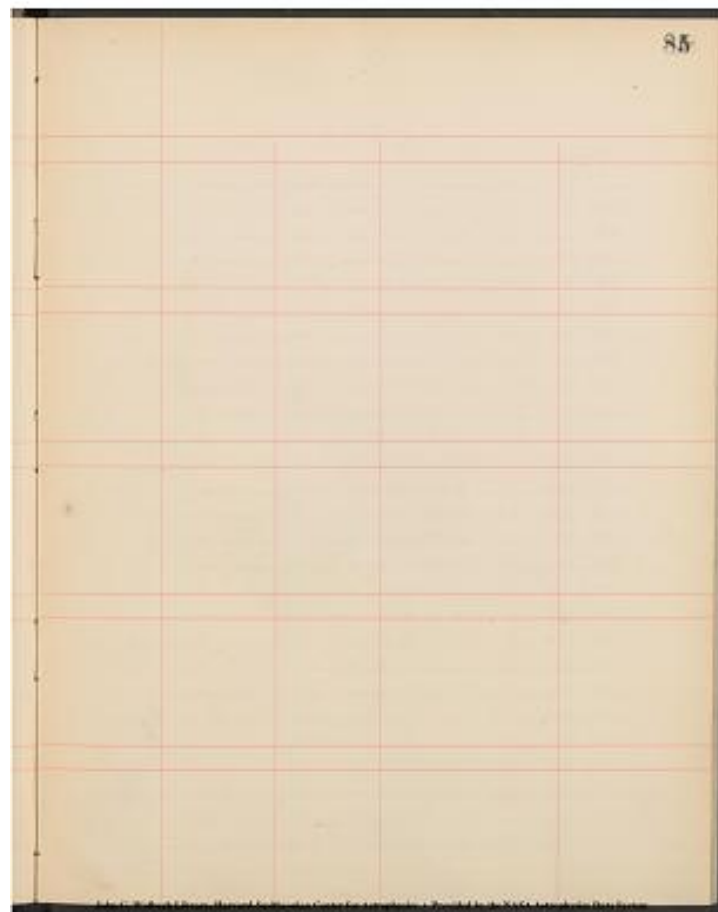
118a|37.3 41.4|12.0 9.5 3.0 5.6|150 151|-90 + 39|  
118b|36.7 42.5|2.9 7.0 12.1 8.0|150 150|+92 - 10|  
119a|38.4 24.1|9.0 14.5 6.0 0.5|150 150|+30 + 140|  
119b|37.7 25.3|3.5 5.5 11.6 9.5|151 150|+81 - 40|  
120a|38.6 14.3|4.0 12.0 11.1 2.9|151 149|+71 + 91|  
120b|37.9 15.4|0.9 10.8 14.1 5.0|150 150|+132 + 50|  
358= 121a|39.1 10.4|14.5 10.1 0.5 5.0|150 151|-140 + 51|  
121b|38.4 11.4|12.1 8.0 3.0 7.0|151 150|-91 + 10|  
362=122a|39.1 32.4|13.5 10.5 1.5 4.6|150 151|-120 + 59|  
122.6|38.6 33.5|6.1 8.0 8.9 7.0|150 150|+28 + 10|  
363=123a|39.6 |[strikethrough]3|[strikethrough]]23.21|4.5 12.0 10.5  
3.0|150 150|+60 + 90|  
123b|39.1 24.4|14.5 11.0 0.6 4.0|151 150|-139 + 70|  
364=124a|39.4 41.1|9.1 13.5 5.9 1.6|150 151|-32 + 119|  
124b|39.0 42.4|15.0 11.5 15.0 3.5|300 150|0 + 80|  
365=125a|40.1 26.1|14.0 14.5 1.0 0.6|150 151|-130 + 139|  
125b|39.5 27.2|8.0 12.9 7.0 2.2|150 151|-10 + 107|  
126a|39.5 27.2|8.0 12.9 7.0 2.2|150 151|-10 + 107|  
126b|39.6 21.6|6.9 6.1 8.0 8.9|149 140|+11 - 28|  
127a|39.7 13.7|2.5 3.0 12.5 12.0|150 150|+100 - 90|  
127b|39.0 14.9|14.9 1.1 0.1 14.0|150 151|-148 - 129|  
128a|40.4 8.9|10.0 0.5 5.1 14.5|151 150|-49 - 140|  
128b|39.5 10.1|8.0 14.1 7.0 0.9|150 150|-10 + 132|  
129a|40.4 8.4|11.0 10.9 4.0 4.1|150 150|-70 + 68|  
129b|39.5 9.4|9.0 8.9 6.0 6.1|150 150|-30 + 28|  
130a|40.9 3.1|0.5 13.5 14.5 1.6|150 151|+140 + 119|  
130b|39.9 4.3|15.0 12.0 15.1 3.0|[[underline]]301 150|[[underline]]+01 +  
90|  
		[[underline]]4205 3908	[[underline]]	
		28 26		
		150.18 150.31		

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[[no input]]



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April 12, 1910.  
D 14541 (cont)

[[11 columns]]

| x | y | A | B | C | D | A+C | B+D | C-A | B-D |

|-----|

|131a|41.1|6.1|14.5|13.1|0.5|2.0|150|151|-140|+111|  
|131b|40.2|7.3|13.5|11.9|1.5|3.2|150|151|-120|+87|  
370=132a|41.0|13.3|15.0|11.1|15.0|3.9|300|150|0|+72|  
133b	40.4	14.4	12.4	9.9	2.6	5.1	150	150	-98	+48
134a	40.8	17.2	2.1	12.5	13.0	2.6	151	151	+109	+99
134b	40.1	18.4	13.5	11.0	1.6	4.0	151	150	-119	+70
135a	43.2	37.3	12.9	11.0	2.2	4.1	151	151	-107	+69
135b	42.6	38.4	4.0	10.0	11.0	5.1	150	151	+70	+49
136a	41.9	41.4	1.0	11.0	14.1	4.0	151	150	+131	+70
136b	41.6	42.4	6.5	9.9	8.6	5.1	151	150	+21	+48
137a	42.2	30.0	12.9	0.1	2.1	14.9	150	150	-108	-148
137b	41.6	31.1	5.5	14.0	9.6	1.0	151	150	+41	+130
138a	41.9	16.4	0.5	6.0	14.5	9.0	150	150	+140	-30
138b	41.3	27.6	12.0	4.9	3.0	10.1	150	150	-90	-52
139a	42.4	~~[[strikethrough]]~~ 3.4								
~~[[strikethrough]]~~ 4	~~[[strikethrough]]~~ 3.4	10.5	8.0	4.5	7.0	15				
0	150	-60	+10							
139b	41.4	4.6	10.5	6.9	4.6	8.1	151	150	-59	-12
140a	42.9	44.6	0.1	5.0	14.9	10.0	150	150	+148	-50
140b	42.6	45.7	5.0	3.6	10.0	11.4	150	150	+148	-50
141a	42.5	31.0	7.5	15.0	7.6	15.0	151	300	+01	0
141b	41.9	32.1	0.5	14.0	14.6	1.0	151	150	+141	+130
{142a	42.3	30.0				} Measured Twice by				
{142b	41.6	31.1				} mistake.				
378 = 143a	43.0	18.4	15.1	10.0	15.0	5.0	301	150	-01	+50
143b	42.4	19.4	11.0	8.9	4.0	6.1	150	150	-70	+28
144a	43.3	14.2	12.0	12.1	3.0	3.0	150	151	-90	+91
144b	42.5	15.3	9.0	11.1	6.0	3.8	150	150		
149	149	-30	+72							
[[equation]]3910/26[[equation]]3755/25[[equation]]										
				150.38	150.20					

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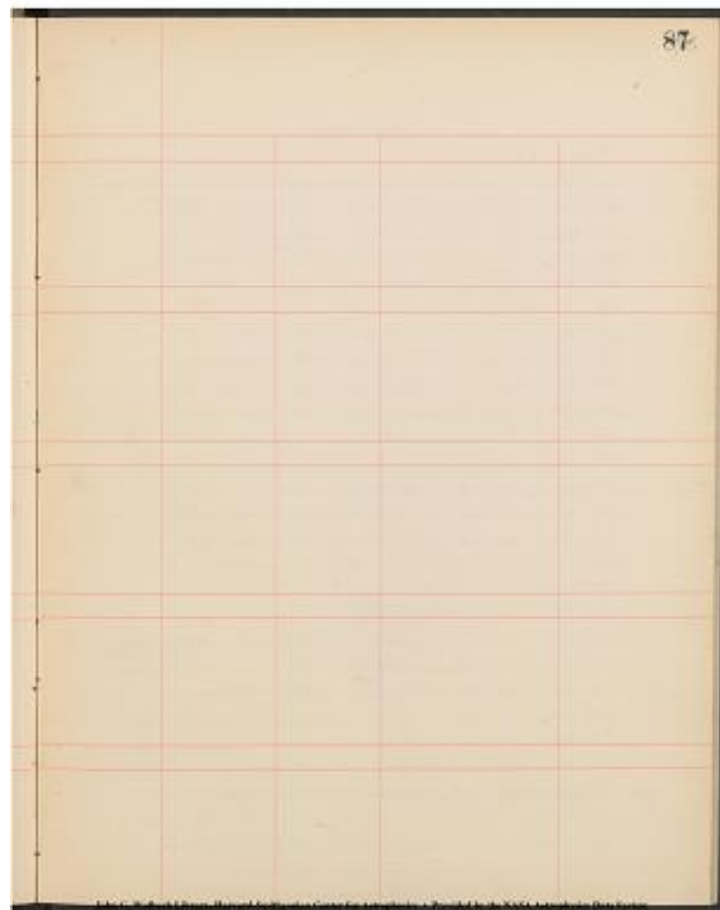
April 12, 1910

	x	y	A	B	C	D	A+C	B+D	C-A	B-D
131a	41.1	6.1	14.5	13.1	0.5	2.0	150	151	-140	+111
131b	40.2	7.3	13.5	11.9	1.5	3.2	150	151	-120	+87
370=132a	41.0	13.3	15.0	11.1	15.0	3.9	300	150	0	+72
133b	40.4	14.4	12.4	9.9	2.6	5.1	150	150	-98	+48
134a	40.8	17.2	2.1	12.5	13.0	2.6	151	151	+109	+99
134b	40.1	18.4	13.5	11.0	1.6	4.0	151	150	-119	+70
135a	43.2	37.3	12.9	11.0	2.2	4.1	151	151	-107	+69
135b	42.6	38.4	4.0	10.0	11.0	5.1	150	151	+70	+49
136a	41.9	41.4	1.0	11.0	14.1	4.0	151	150	+131	+70
136b	41.6	42.4	6.5	9.9	8.6	5.1	151	150	+21	+48
137a	42.2	30.0	12.9	0.1	2.1	14.9	150	150	-108	-148
137b	41.6	31.1	5.5	14.0	9.6	1.0	151	150	+41	+130
138a	41.9	16.4	0.5	6.0	14.5	9.0	150	150	+140	-30
138b	41.3	27.6	12.0	4.9	3.0	10.1	150	150	-90	-52
139a	42.4	<del>[[strikethrough]]</del> 3.4								
<del>[[strikethrough]]</del> 4	<del>[[strikethrough]]</del> 3.4	10.5	8.0	4.5	7.0	15				
0	150	-60	+10							
139b	41.4	4.6	10.5	6.9	4.6	8.1	151	150	-59	-12
140a	42.9	44.6	0.1	5.0	14.9	10.0	150	150	+148	-50
140b	42.6	45.7	5.0	3.6	10.0	11.4	150	150	+148	-50
141a	42.5	31.0	7.5	15.0	7.6	15.0	151	300	+01	0
141b	41.9	32.1	0.5	14.0	14.6	1.0	151	150	+141	+130
{142a	42.3	30.0					Measured	Twice by		
{142b	41.6	31.1					mistake.			
378 = 143a	43.0	18.4	15.1	10.0	15.0	5.0	301	150	-01	+50
143b	42.4	19.4	11.0	8.9	4.0	6.1	150	150	-70	+28
144a	43.3	14.2	12.0	12.1	3.0	3.0	150	151	-90	+91
144b	42.5	15.3	9.0	11.1	6.0	3.8	<u>150</u>	<u>150</u>		
<u>149</u>	<u>149</u>	-30	+72							
[[equation]]3910/26	[[equation]]3755/25	[[equation]]								
					150.38	150.20				

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[[no input]]



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 April 12, 1910,  
 D14541 (cont.)

[[1 columns]]

x	y	A.	B.	C.	D.	a + C	B + D	c - a	B - D

145a	43.4	14.4	10.5	8.5	4.6	6.6	151	151	-59 +19	
145b	42.5	15.5	7.5	7.9	7.6	7.1	151	15	+01 +08	
385 = 146a	44.4	15.5	7.5	7.9	7.6	7.1	151	150	-69 +130	
146b	43.4	6.21	10.0	13.0	5.1	1.9	151	149	-49	+111
147a	43.3	31.4	1.9	8.0	3.1	7.0	150	150	-88	+10
147b	42.6	32.5	4.0	7.0	11.1	8.1	151	151	+71	-11
148a	42.9	22.4	1.0	10.0	14.1	5.0	150	150	+131	+50
148b	42.4	20.5	9.5	7.1	5.5	8.0	150	151	-40	-09
149a	44.1	19.4	14.0	8.0	1.0	7.0	150	150	-130	+10
150a	44.6	46.4	4.5	10.0	10.5	4.9	150	149	+60	+51
150b	44.4	47.4	90	9.5	6.0	5.6	150	151	-30	+39
151a	44.7	46.6	29	6.0	12.1	9.0	150	150	+92	-30
151b	44.5	41.6	7.0	5.5	8.0	9.6	150	151	+10	-41
152a	45.1	41.4	14.5	10.5	0.5	4.6	150	151	-140	+59
152b	44.6	42.4	5.0	10.0	10.1	5.1	151	151	+51	+49
153a	44.8	21.5	3.0	7.9	12.0	7.2	150	151	+90	+07
153b	44.1	22.6	13.0	7.0	2.1	8.0	151	150	-109	-10
154a	45.0	26.4	15.0	9.0	15.1	6.0	301	150	+01	+30
154b	44.4	27.5	9.5	8.1	5.6	7.0	151	151	-39	+11
155a	45.4	24.6	10.9	5.0	4.1	10.0	150	150	-68	-50
155b	44.6	25.7	5.0	4.0	10.0	10.9	150	149	+50	-69
156a	44.7	23.1	3.5	13.5	11.5	1.5	150	150	+80	+120
156b	44.1	24.2	13.5	12.9	1.6	2.1	151	150	-119	+108
157a	46.5	33.5	6.1	7.5	8.9	7.5	150	150	+28	0
157b	46.1	34.6	13.5	7.0	1.5	8.0	150	150		
150									-120	-10

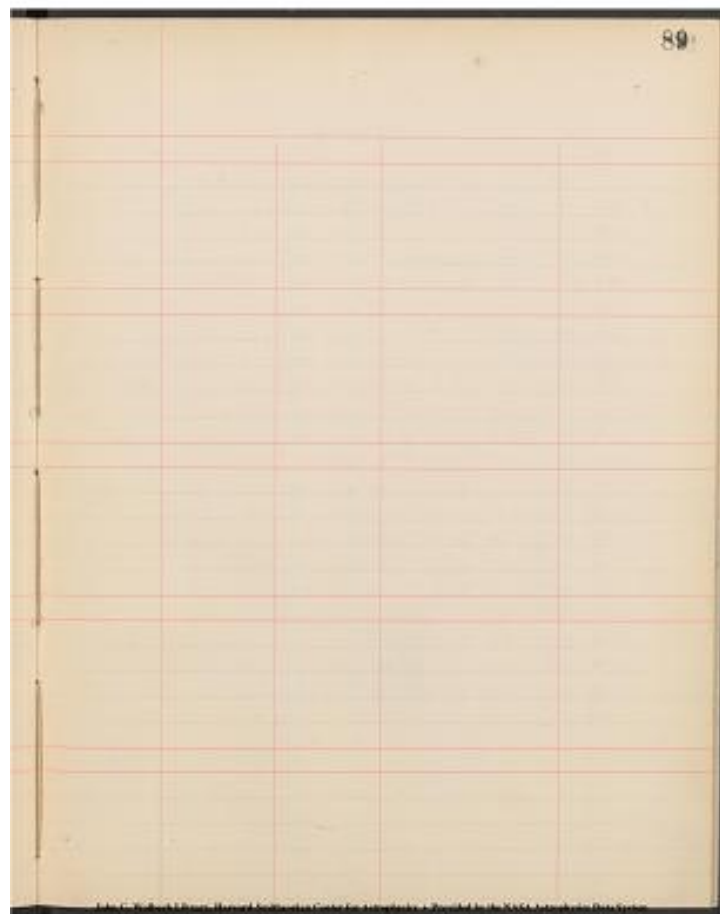
| [[equation]] 4061/27 | [[equation]] 3906/26  
 | 150.41 | 150.23 |

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[[no input]]



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April 12, 1910

D14541(cont)

[[4 columned table]]

| x y | A. B. C. D. | A+C B+D C-A B-D |  
|---|---|---|---|

158a	48.3 35.9	11.6 1.0 3.5 14.0	151 150 -81 -130
158b	47.7 36.9	3.1 1.0 11.9 14.0	150 150 +88 -130
159a	49.3 36.4	13.0 9.0 2.1 6.0	151 150 -109 +30
159b	48.6 37.4	4.5 9.0 10.5 6.0	150 150 +60 +30
160a	49.7 34.4	3.0 9.5 12.1 5.5	151 150 +91 +40
160b	49.4 35.4	10.1 9.9 5.0 5.1	151 150 -51 +48
161a	48.3 28.7	12.0 3.1 3.1 12.0	151 151 -89 -89
161b	47.6 29.7	5.1 3.0 9.9 12.0	150 150 +48 -90
386=162a	49.3 23.4	12.5 10.0 2.5 5.0	150 150 -100 +50
162b	48.5 24.4	7.1 10.5 7.9 4.5	150 150 +08 +60
163a	49.5 21.5	7.0 6.1 8.0 9.0	150 151 +01 -29
163b	48.8 22.5	2.0 7.0 13.1 8.0	151 150 +111 -10
164a	49.5 20.4	8.0 9.5 7.0 6.0	150 155 -10 +35
164b	48.7 21.4	3.5 9.5 11.6 5.5	151 150 +81 +40
165a	49.4 15.7	10.9 2.5 4.1 12.5	150 150 -68 -100
165b	48.5 16.7	7.5 3.0 7.6 12.0	151 150 +01 -90
166a	50.3 13.1	12.0 13.0 3.0 2.1	150 151 -90 +109
166b	49.4 14.1	9.5 13.1 5.6 1.9	151 150 -39 +112
167a	49.3 42.0	12.5 0.5 2.5 14.6	150 151 -100 -141
167b	48.7 42.9	2.9 0.5 12.1 14.6	150 151 +92 -141
[[~~168a~~]]

3009 3010

20 20

150.45 150.50

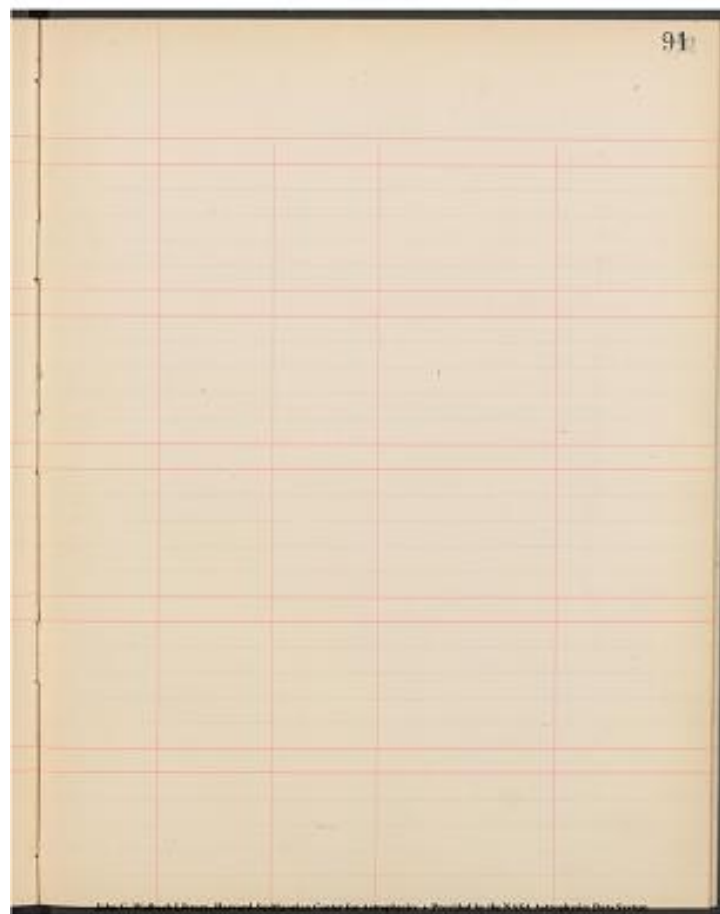
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[[no input]]



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Measured position of stars in vicinity of No. Pole.  
May 6, 1910

D14584 (14x17)

[[3 columns]]  
| x y | A. B. C. D. |  
|---|---|---|

1	2.1 31.9	13.0 1.0 2.0 14.0	
2	2.5 35.1	7.5 14.0 7.5 1.0	
3	2.5 32.6	6.8 6.0 8.3 9.0	
4	2.1 24.6	14.0 6.9 1.0 8.1	
5	2.3 23.3	10.5 10.5 4.5 4.6	
6	2.7 22.7	4.0 4.5 11.0 10.5	
154 = 7	3.6 43.	~~4~~	6
152 = 8	3.5 31.1		
151 = 9	3.5 25.8		
10	3.1 24.1		
11	3.6 11.5		
12	3.5 8.9		
150 = 13	3.8 4.7		
14	4.8 44.5		
15	4.9 44.7		
158 = 16	4.8 34.5		
153 = 17	4.1 12.5		
164 = 18	5.6 31.9		
160 = 19	5.4 22.6		
159 = 20	5.1 19.1		
21	5.3 17.1		
22	7.6 47.4		
23	7.2 42.9		
24	7.0 31.2		
176 = 25	7.9 32.4		
169 = 26	7.1 24.6		
27	7.0 7.2		

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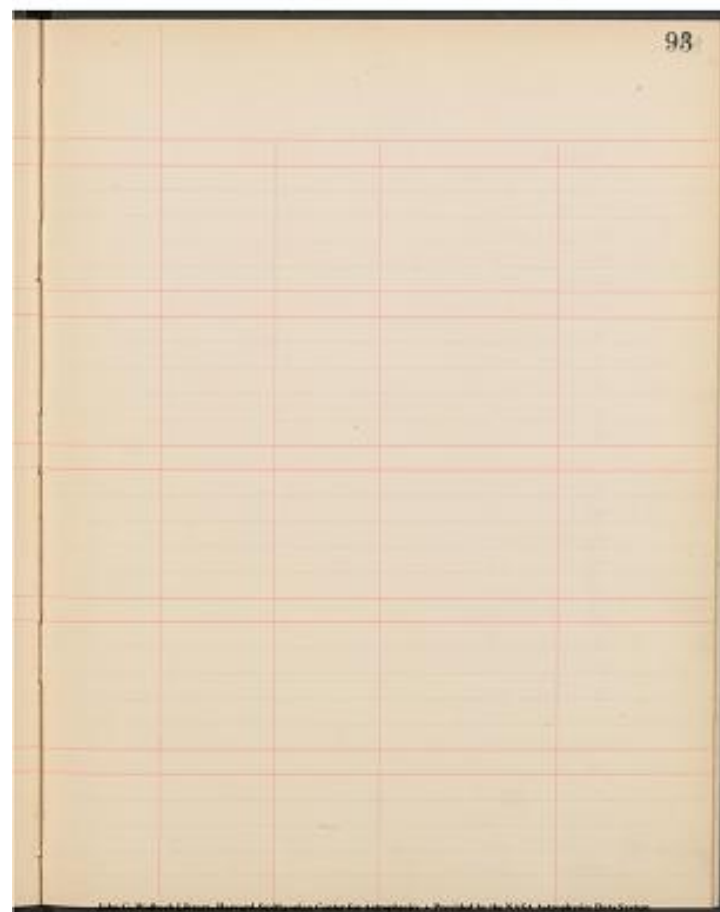
*Measured positions of stars in vicinity of N. Pole. May 6, 1910*

<i>Star</i>	<i>x</i>	<i>y</i>	<i>A.</i>	<i>B.</i>	<i>C.</i>	<i>D.</i>
1	2.1	31.9	13.0	1.0	2.0	14.0
2	2.5	35.1	7.5	14.0	7.5	1.0
3	2.5	32.6	6.8	6.0	8.3	9.0
4	2.1	24.6	14.0	6.9	1.0	8.1
5	2.3	23.3	10.5	10.5	4.5	4.6
6	2.7	22.7	4.0	4.5	11.0	10.5
154 = 7	3.6	43.	<del>4</del>			6
152 = 8	3.5	31.1				
151 = 9	3.5	25.8				
10	3.1	24.1				
11	3.6	11.5				
12	3.5	8.9				
150 = 13	3.8	4.7				
14	4.8	44.5				
15	4.9	44.7				
158 = 16	4.8	34.5				
153 = 17	4.1	12.5				
164 = 18	5.6	31.9				
160 = 19	5.4	22.6				
159 = 20	5.1	19.1				
21	5.3	17.1				
22	7.6	47.4				
23	7.2	42.9				
24	7.0	31.2				
176 = 25	7.9	32.4				
169 = 26	7.1	24.6				
27	7.0	7.2				

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[[no input]]



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Measures of position (cont)

May 6, 1910

D14584

[[2 columns]]

| x y |  
|---|---|

28|7.1 6.2|  
 29|8.3 47.8|  
 30|8.6 17.2|  
 31|8.8 13.7|  
 32|8.2 5.1|  
 33|9.6 35.7|  
 183= 34|9.1 26.6|  
 186= 35|9.6 24.3|  
 36|9.3 17.8|  
 37|9.3 13.9?|  
 38|9.8 4.3|  
 34= 39|10.3 27.6|  
 188= 40|10.1 25.3|  
 41= 41|10.4 20.3|  
 39= 42|10.4 18.9|  
 43|10.7 10.6|  
 44|11.5 47.3|  
 202= 45|11.9 23.9|  
 46|11.8 18.4|  
 47|11.2 10.3|  
 48|11.0 4.4|  
 49|12.9 45.4|  
 207= 50|12.4 44.4|  
 208= 51|12.5 43.1|  
 52|12.9 35.9 pc|  
 53|12.7 35.1|  
 54|12.3 34.2 pc|

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Measures of position (cont)

May 6, 1910

Number	x	y
28	7.1	6.2
29	8.3	47.8
30	8.6	17.2
31	8.8	13.7
32	8.2	5.1
33	9.6	35.7
183 = 34	9.1	26.6
186 = 35	9.6	24.3
36	9.3	17.8
37	9.3	13.9?
38	9.8	4.3
34 = 39	10.3	27.6
188 = 40	10.1	25.3
41 = 41	10.4	20.3
39 = 42	10.4	18.9
43	10.7	10.6
44	11.5	47.3
202 = 45	11.9	23.9
46	11.8	18.4
47	11.2	10.3
48	11.0	4.4
49	12.9	45.4
207 = 50	12.4	44.4
208 = 51	12.5	43.1
52	12.9	35.9 pc
53	12.7	35.1
54	12.3	34.2 pc

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[[no input]]



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 Measures of Position (cont)  
 May 6, 1910  
 D14584

[[3 columns]]  

	x	y
55	12.9	30.3
56	12.2	13.6
57	12.9	9.6
58	13.1	32.4
59	13.8	32.3
60	13.7	29.4
213= 61	13.6	210.9
62	13.5	18.1
63	13.0	16.4
64	13.8	14.3
210= 65	13.5	2.7
218= 66	14.1	43.7
67	14.5	42.5
68	14.9	38.7
30= 69	14.4	34.1
70	14.4	31.4
71	14.8	30.5
72	14.4	9.6
214= 73	14.4	3.8
227= 74	15.1	36.2
225= 75	15.1	35.7
76	15.1	29.5
229= 77	15.6	21.7
224= 78	15.4	20.5
79?	15.3	17.9
226= 80	15.6	15.6
223= 81	15.6	6.1

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96

*Measures of position (cont)*  
*May 6, 1910*

	x	y
55	12.9	30.3
56	12.2	13.6
57	12.9	9.6
58	13.1	32.4
59	13.8	32.3
60	13.7	29.4
213= 61	13.6	210.9
62	13.5	18.1
63	13.0	16.4
64	13.8	14.3
210= 65	13.5	2.7
218= 66	14.1	43.7
67	14.5	42.5
68	14.9	38.7
30= 69	14.4	34.1
70	14.4	31.4
71	14.8	30.5
72	14.4	9.6
214= 73	14.4	3.8
227= 74	15.1	36.2
225= 75	15.1	35.7
76	15.1	29.5
229= 77	15.6	21.7
224= 78	15.4	20.5
79?	15.3	17.9
226= 80	15.6	15.6
223= 81	15.6	6.1

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97

[[no input]]



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Measures of Position(cont)

May 6, 1910

D14584

[4 column table]

	x	y

82	16.2	31.5
83	16.9	28.5
84	16.5	26.6
85	16.2	26.3
86	16.9	18.8
87?	16.9	13.1
88?	16.9	11.1
89	16.1	9.4
90	17.3	38.1
47=	91	17.3
92	17.4	33.4
93	18.1	45.7
94	18.4	38.5
95?	18.5	11.6
240=	96	18.1
97	18.4	4.2
98	19.4	34.1
99	19.4	26.4
244=	100	19.4
38=	101	20.1
42=	102	20.4
48=	103	20.4
104	20.8	26.9
43=|105|20.5|26.4|  
Defect?|106|20.4|24.4|  
253?|107?|20.4|24.4|  
256=|108|20.6|11.5|

98

Measures of position (cont)  
May 6, 1910

Index	x	y
82	16.2	31.5
83	16.9	28.5
84	16.5	26.6
85	16.2	26.3
86	16.9	18.8
87?	16.9	13.1
88?	16.9	11.1
89	16.1	9.4
90	17.3	38.1
47=	91	17.3
92	17.4	33.4
93	18.1	45.7
94	18.4	38.5
95?	18.5	11.6
240=	96	18.1
97	18.4	4.2
98	19.4	34.1
99	19.4	26.4
244=	100	19.4
38=	101	20.1
42=	102	20.4
48=	103	20.4
104	20.8	26.9
43=	105	20.5
Defect?	106	20.4
253?	107?	20.4
256=	108	20.6

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[[no input]]



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Measures of Positions (cont)  
May 6, 1910

D 1.4584  
x y

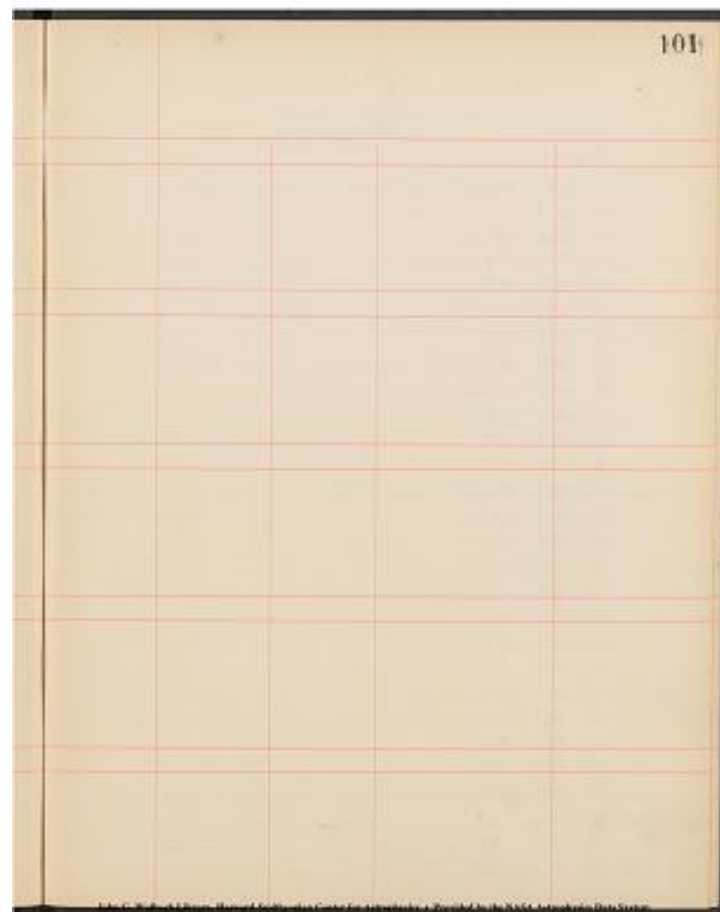
109 21.2 47.5  
33= 110 21.3 41.9  
111 21.3 36.3  
36= 112 21.9 23.7  
28= 113 22.7 41.1  
114 22.4 37.8  
115 22.6 37.7  
116 22.4 37.2  
117 22.1 34.5  
277=118 23.9 43.6  
119?23.4 10.4  
120 24.4 46.9  
46= 121 24.8 39.1  
122 24.9 32.6  
49= 123 24.5 22.9  
124 24.1 16.6  
125 24.4 15.5  
126 25.7 39.6  
35= 127 25.8 36.1  
31= 128 25.5 27.0  
51= 129 25.1 24.4  
130 26.5 10.6  
131 26.2 41.8  
52= 132 26.6 30.6  
44= 133 26.4 18.7  
134 26.8 16.9  
135 26.2 16.1

100			Measures of positions (cont)		
			May 6, 1910		
			D 1.4584		
			x y		
			109 21.2 47.5		
			33= 110 21.3 41.9		
			111 21.3 36.3		
			36= 112 21.9 23.7		
			28= 113 22.7 41.1		
			114 22.4 37.8		
			115 22.6 37.7		
			116 22.4 37.2		
			117 22.1 34.5		
			277=118 23.9 43.6		
			119?23.4 10.4		
			120 24.4 46.9		
			46= 121 24.8 39.1		
			122 24.9 32.6		
			49= 123 24.5 22.9		
			124 24.1 16.6		
			125 24.4 15.5		
			126 25.7 39.6		
			35= 127 25.8 36.1		
			31= 128 25.5 27.0		
			51= 129 25.1 24.4		
			130 26.5 10.6		
			131 26.2 41.8		
			52= 132 26.6 30.6		
			44= 133 26.4 18.7		
			134 26.8 16.9		
			135 26.2 16.1		

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101

[[no input]]



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102

Measures of position (cont)  
May 6, 1910  
D 14584

[[2 columns]]

| x y |  
|---|---|

136|? 26.5 9.6|  
137|? 26.3 8.9|  
138|27.4 43.4|  
139|27.5 34.4|  
140|27.4 12.4|  
295= 141|28.4 43.0|  
142|28.5 38.3|  
143|28.3 31.6|  
144|28.5 21.4|  
145|28.4 14.4|  
32= 146|29.5 40.8|  
29= 147|29.8 33.8|  
148|29.6 27.1|  
149|29.6 20.3|  
150|29.9 20.2|  
299= 151|29.7 18.4|  
152|29.7 14.5|  
153|29.4 13.0|  
154|29.1 8.7|  
155|30.6 46.7|  
156|30.9 34.5|  
157|30.1 30.9|  
51= 158|30.5 29.5|  
159|30.4 28.5|  
201= 160|30.2 17.8|  
161|30.1 6.6|  
304=162|30.9 6.4|

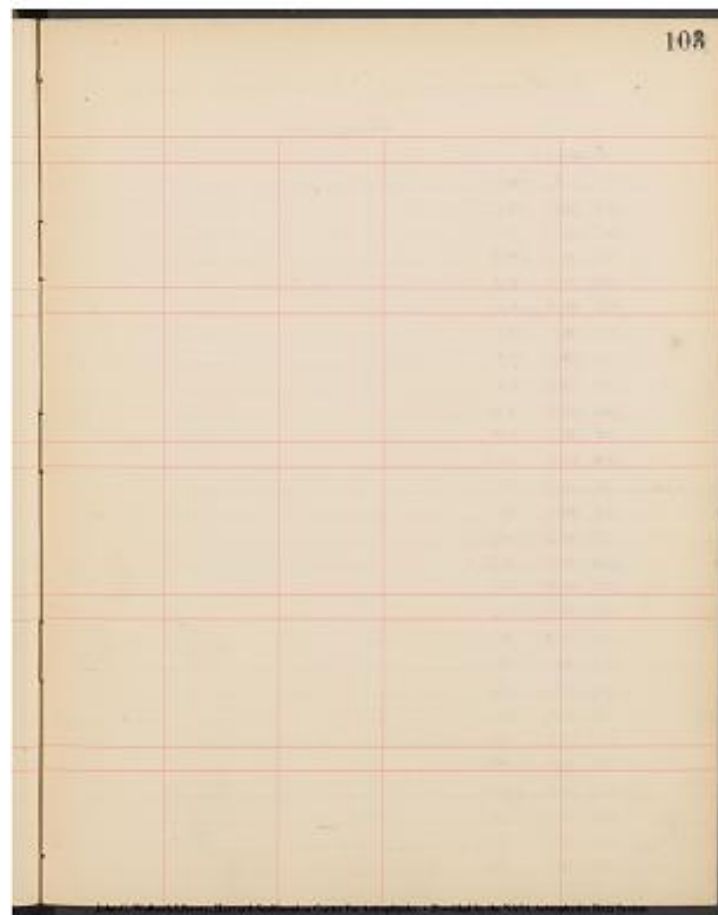
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102		Measures of position (cont)	
		May 6, 1910	
2958		x	y
136	26.5	9.6	
137	26.3	8.9	
138	27.4	43.4	
139	27.5	34.4	
140	27.4	12.4	
295= 141	28.4	43.0	
142	28.5	38.3	
143	28.3	31.6	
144	28.5	21.4	
145	28.4	14.4	
32= 146	29.5	40.8	
29= 147	29.8	33.8	
148	29.6	27.1	
149	29.6	20.3	
150	29.9	20.2	
299= 151	29.7	18.4	
152	29.7	14.5	
153	29.4	13.0	
154	29.1	8.7	
155	30.6	46.7	
156	30.9	34.5	
157	30.1	30.9	
51= 158	30.5	29.5	
159	30.4	28.5	
201= 160	30.2	17.8	
161	30.1	6.6	
304=162	30.9	6.4	

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103

[[no input]]



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104  
 Measures of position (cont)  
 May 6, 1910  
 D14584

[[2 columns]]  
 | x y |  
 |---|---|

163|31.8 44.2|  
 164|31.3 21.1|  
 165|31.4 16.1|  
 166|31.9 14.9|  
 167|31.6 9.8|  
 168|31.3 5.4|  
 169|32.7 24.3|  
 170|32.7 10.4|  
 319= 171|32.3 6.4|  
 323= 172|32.9 14.6|  
 173|33.8 46.4|  
 174|33.8 43.4|  
 334= 175|33.9 38.7|  
 34= 176|33.1 24.5|  
 329= 177|33.9 5.7|  
 178|34.4 47.9|he  
 45= 179|34.7 28.5|  
 180|34.3 24.3|  
 181|34.4 25.1|  
 182|34.4 16.8|  
 183|34.3 10.6|  
 184|34.6 10.3|  
 185|34.9 9.1|  
 186|34.6 4.6|  
 187|35.6 47.9|  
 188|35.4 46.7|  
 343= 189|35.5 41.5|  
 190|35.9 41.3|

104			Measures of position (cont)		
			May 6, 1910		
			Polar Sequence		
			x y		
163	31.8	44.2			
164	31.3	21.1			
165	31.4	16.1			
166	31.9	14.9			
167	31.6	9.8			
168	31.3	5.4			
169	32.7	24.3			
170	32.7	10.4			
319 =	171	32.3 6.4			
323 =	172	32.9 14.6			
173	33.8	46.4			
174	33.8	43.4			
334 =	175	33.9 38.7			
34 =	176	33.1 24.5			
329 =	177	33.9 5.7			
178	34.4	47.9	he		
45 =	179	34.7 28.5			
180	34.3	24.3			
181	34.4	25.1			
182	34.4	16.8			
183	34.3	10.6			
184	34.6	10.3			
185	34.9	9.1			
186	34.6	4.6			
187	35.6	47.9			
188	35.4	46.7			
343 =	189	35.5 41.5			
190	35.9	41.3			

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 Polar Sequence #29  
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105

[[no input]]



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Polar Sequence #29  
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106

Measures of Position(cont)

May 9, 1910

D14584

[4 column table]

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

191	35.9	41.0
192	35.7	26.4
193	35.3	17.0
339=	194	35.4 13.2
	195	35.4 11.4
341=	196	35.7 7.8
	197	36.5 47.6
	198	36.9 41.3
	199	36.8 16.2
	200	36.5 6.9
	201	36.2 5.8
	202	37.9 40.8
347=	203	37.2 7.3
	204	37.4 5.6
	205	38.1 45.3
	206	38.3 42.6
	207	38.6 35.5
362=	208	38.8 32.2
	209	38.1 23.9
	210	38.5 14.1
358=	211	38.7 10.3
364=	212	39.2 40.9
365=	213	39.7 25.9
363=	214	39.4 23.0
	215	39.9 20.4
	216	39.6 15.9
	217	39.5 13.6
	218	39.9 8.2

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106			
Measures of position (cont)			
May 9, 1910			
Polaris			
191	35.9	41.0	
192	35.7	26.4	
193	35.3	17.0	
339 =	194	35.4	13.2
	195	35.4	11.4
341 =	196	35.7	7.8
	197	36.5	47.6
	198	36.9	41.3
	199	36.8	16.2
	200	36.5	6.9
	201	36.2	5.8
	202	37.9	40.8
347 =	203	37.2	7.3
	204	37.4	5.6
	205	38.1	45.3
	206	38.3	42.6
	207	38.6	35.5
362 =	208	38.8	32.2
	209	38.1	23.9
	210	38.5	14.1
358 =	211	38.7	10.3
364 =	212	39.2	40.9
365 =	213	39.7	25.9
363 =	214	39.4	23.0
	215	39.9	20.4
	216	39.6	15.9
	217	39.5	13.6
	218	39.9	8.2

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Polar Sequence #29  
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107

[[no input]]



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Polar Sequence #29  
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108  
 Measures of position (cont)  
 May 9, 1910  
 D14584  
 219 4.0 28.4  
 220 40.6 18.4  
 221 40.5 17.1  
 222 40.0 16.7  
 370= 223 40.6 13.2  
 224 40.1 8.7  
 225 40.6 6.0  
 226 41.5 43.0  
 227 41.6 41.3  
 228 41.6 32.4  
 229 41.9 29.8  
 230 41.6 16.4  
 231 41.3 5.3  
 232 41.9 3.4  
 233 42.4 46.4  
 234 42.6 44.6  
 235 42.8 37.2  
 236 42.9 31.4  
 237 42.3 30.9  
 238 42.6 22.4  
 378= 239 42.6 18.3  
 240 42.4 16.6  
 241 42.9 14.4  
 242 42.8 14.1  
 243 43.4 41.9  
 244 43.7 19.4  
 245 43.3 7.5  
 382= 246 43.9 4.9

108			Measures of position (cont)		
			May 9, 1910		
			Polar Sequence		
219	4.0	28.4	220	40.6	18.4
221	40.5	17.1	222	40.0	16.7
370=	223	40.6	13.2	224	40.1
8.7	225	40.6	6.0	226	41.5
43.0	227	41.6	41.3	228	41.6
32.4	229	41.9	29.8	230	41.6
16.4	231	41.3	5.3	232	41.9
3.4	233	42.4	46.4	234	42.6
44.6	235	42.8	37.2	236	42.9
31.4	237	42.3	30.9	238	42.6
22.4	378=	239	42.6	18.3	240
16.6	241	42.9	14.4	242	42.8
14.1	243	43.4	41.9	244	43.7
19.4	245	43.3	7.5	382=	246
4.9					

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109

[[no input]]



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110

Measures of position (cont)  
May 9, 1910

D14584

[[3 columns]]

247	44.5	46.5
248	44.5	46.3
249	44.9	43.1
250	44.7	41.3
251	44.7	38.1
252	44.6	26.4
253	44.5	22.9
254	44.5	21.4
255	44.5	15.5
256	44.4	5.4
257	44.5	5.3
258	45.0	24.5
259	45.3	20.4
260	45.2	17.9
261	45.7	8.6
262	45.3	8.4
263	46.4	33.4
264	46.1	5.9
265	47.9	35.9
266	47.9	28.6
267	47.9	26.4
268	47.1	20.4
269	47.5	7.9
270	48.9	41.8
271	48.8	36.3
386=272	48.8	23.3
273	48.6	14.1
274	49.5	34.3

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110		
Measures of position (cont)		
May 9, 1910		
D14584		
247	44.5	46.5
248	44.5	46.3
249	44.9	43.1
250	44.7	41.3
251	44.7	38.1
252	44.6	26.4
253	44.5	22.9
254	44.5	21.4
255	44.5	15.5
256	44.4	5.4
257	44.5	5.3
258	45.0	24.5
259	45.3	20.4
260	45.2	17.9
261	45.7	8.6
262	45.3	8.4
263	46.4	33.4
264	46.1	5.9
265	47.9	35.9
266	47.9	28.6
267	47.9	26.4
268	47.1	20.4
269	47.5	7.9
270	48.9	41.8
271	48.8	36.3
386=272	48.8	23.3
273	48.6	14.1
274	49.5	34.3

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111

[[no input]]



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112

Measures of position (cont)  
May 9, 1910  
D14584

[[3 columns]]  
---|---|---  
275? | 49.5 | 32.0 |  
276 | 49.3 | 21.4 |  
392= 277 | 49.2 | 21.4 |  
278 | 49.0 | 20.3 |  
279 | 49.9 | 12.9 |  
280 | 50.1 | 25.4 |

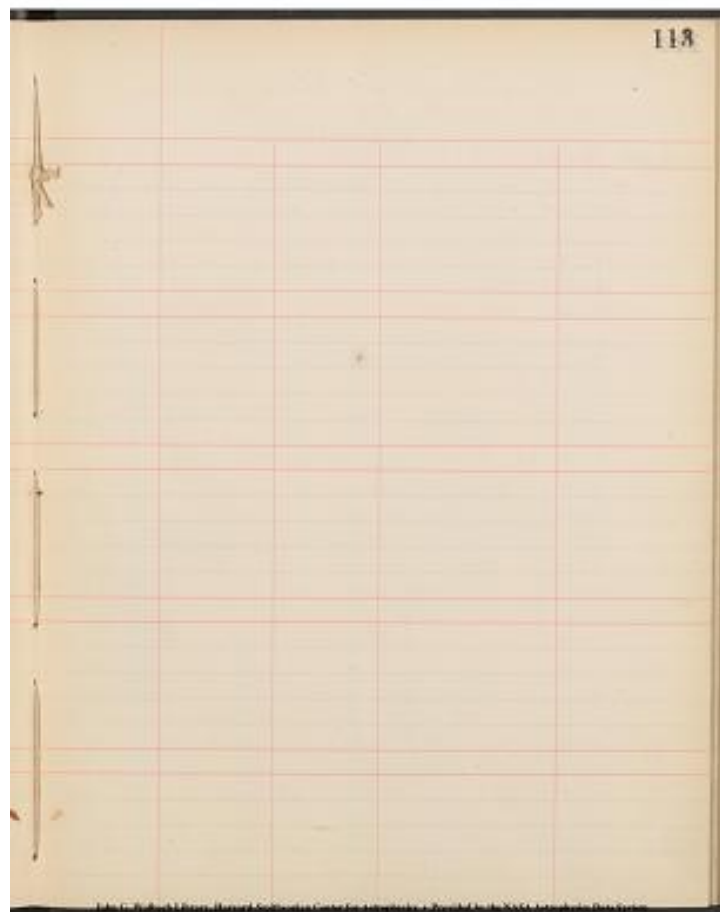
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112		
Measures of position (cont)		
May 9, 1910		
DIFFER		
275?	49.5	32.0
276	49.3	21.4
392=	277	49.2 21.4
278	49.0	20.3
279	49.9	12.9
280	50.1	25.4

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Polar Sequence #29  
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113

[[no input]]



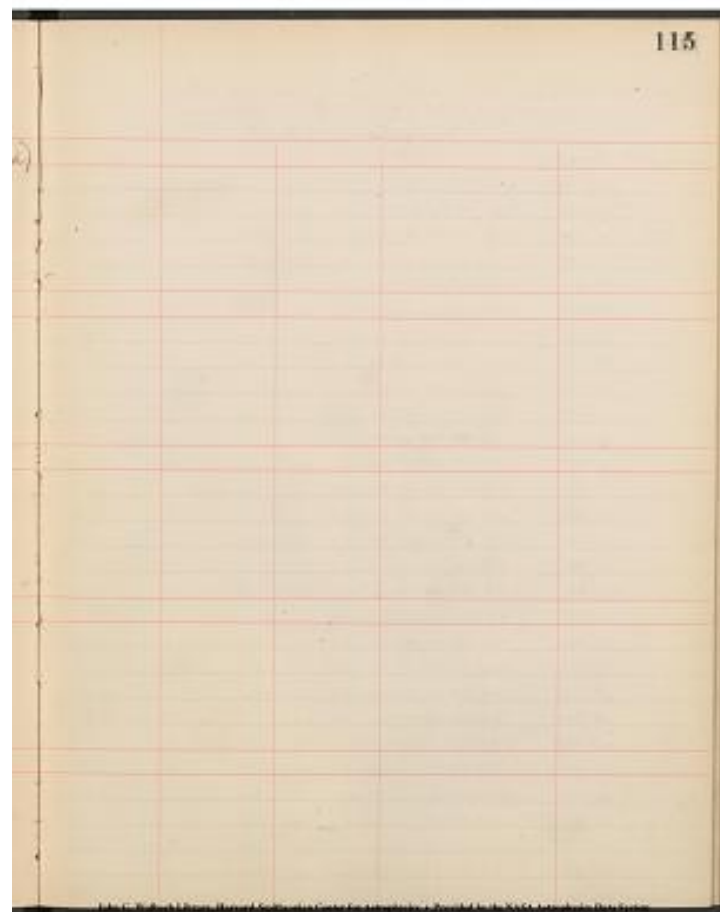
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Polar Sequence #29  
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115

[[no input]]



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116

Measures of position of stars in vicinity of No. Pole  
August 30, 1910

D14703

[[13 columns]]

|x|y|A|B|C|D|a+b|B+D|c-a|B-D|xx30|yx30|  
|---|---|---|---|---|---|---|---|---|---|---|---|---|

28|5.6|36.4|5.0|4.0|10.1|11.0|151|150|+51|-70|150|1080  
 158= 29|5.4|34.4|10.5|6.0|4.5|9.1|150|151|-60|-31|150|1020  
 30|5.6|31.0|3.0|150|12.0|15.1|150|301|+90|-01|150|930  
 31|5.7|30.6|2.9|10.0|12.1|5.0|150|150|+92|50|150|900  
 32^[[?]]|5.0|29.0|15.0|15.0|15.0|15.1|300|301|0|-01|150|870  
 33|5.4|26.6|10.1|10.9|5.0|4.1|151|150|-51|+68|150|780  
 160= 34|5.6|22.5|5.0|7.5|10.0|7.5|150|150|+50|0|150|660  
 35|5.6|21.2|5.5|2.5|9.5|12.6|150|151|+40|-101|150|630  
 36|5.0|19.5|15.1|6.9|15.0|8.1|301|150|-01|-12|150|570  
 159= 37|5.4|19.0|10.2|14.5|4.8|0.5|150|150|-54|+140|150|570  
 38|5.4|17.0|9.5|14.9|5.5|15.0|150|299|-40|-01|150|510  
 39^[[?]]|5.3|15.4|12.1|9.0|2.9|6.0|150|150|-92|+30|150|450  
 40|5.8|12.5|1.5|6.9|13.5|8.1|150|150|+120|-12|150|360  
 41|6.6|4.5|6.1|8.0|8.9|7.1|150|151|+28|+09|180|120  
 42|6.1|6.1|14.5|14.8|0.5|0.2|150|150|-140|+146|180|180  
 43|6.9|6.2|0.5|13.9|14.5|1.1|150|150|+140|+128|180|180  
 44|6.8|7.1|2.1|14.0|12.9|1.0|150|150|+108|+130|180|210  
 45|6.6|14.6|3.5|5.0|11.6|10.0|150|150|+108|+130|180|210  
 46|6.3|24.4|11.9|8.6|3.1|6.5|150|151|-88|+21|180|720  
 164= 47|6.2|31.7|11.8|3.0|3.2|12.0|150|150|-86|-90|180|930  
 48|6.2|41.1|13.0|14.5|2.0|0.6|150|151|-110|139|180|1020  
 49|6.2|34.9|13.0|1.0|2.0|14.1|150|151|-110|-131|180|1021  
 Large hazy obj. Neb. Spiral 50|6.6|39.9|5.0|0.5|10.0|14.5|150|150|+50|-140|180|1170  
 Large Hazy obj. Neb. Circular 51|6.6|45.4|6.0|10.0|9.0|5.1|150|151|+30|+49|180|1350  
 Large Hazy Obj. Neb. Circular 52|6.9|45.6|1.9|4.0|13.1|11.0|150|150|+112|-70|180|1350  
 53|7.8|42.8|2.1|3.0|12.9|12.0|150|150|108|-90|210|1260  
 54|7.8|32.6|2.0|4.0|13.0|11.0|150|150|+110|-70|210|960

116

Measures of position of stars in vicinity of No. Pole

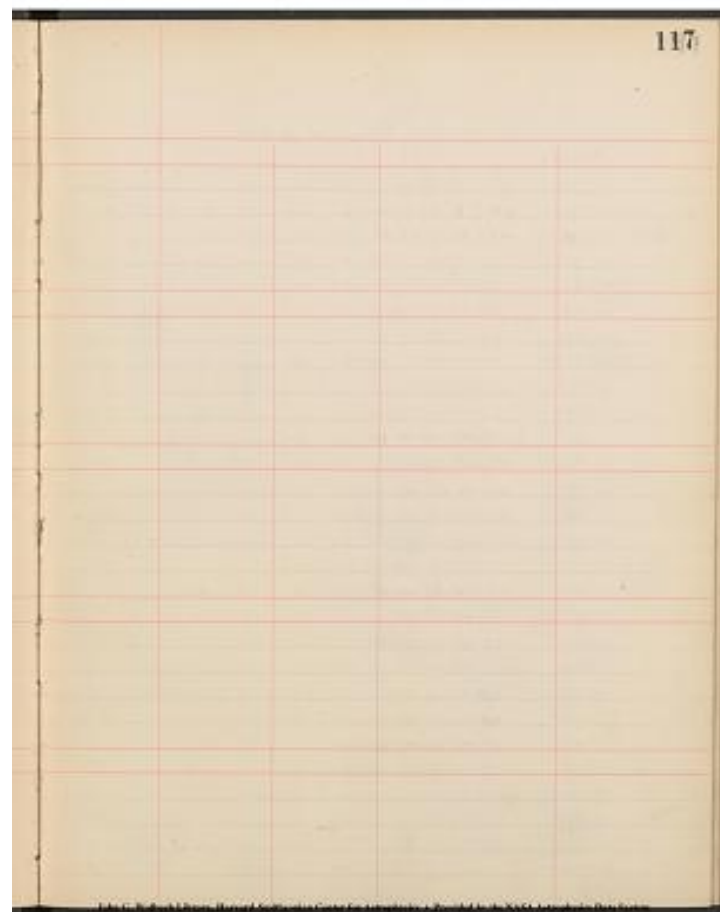
August 30, 1910

Polaris

	$\alpha$	$\delta$	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
28 56	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
29 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
30 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
31 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
32 50	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
33 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
34 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
35 56	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
36 50	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
37 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
38 56	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
39 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
40 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
41 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
42 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
43 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
44 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
45 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
46 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
47 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
48 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
49 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
50 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
51 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
52 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
53 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
54 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
55 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
56 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
57 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
58 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
59 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
60 54	56.4	52 44	11	11	15	15	150	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	

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[[no input]]



Project PHaEDRA - Evelyn F. Leland - New Satellite of Saturn and North  
Polar Sequence #29  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:40:10

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Measures of position of stars in vicinity of No. Pole  
August 30, 1910  
D14703

[[13 columns]]

|x|y|A|B|C|D|a+c|B+D|c-a|B-D|xx30|yx30|  
|---|---|---|---|---|---|---|---|---|---|---|---|---|

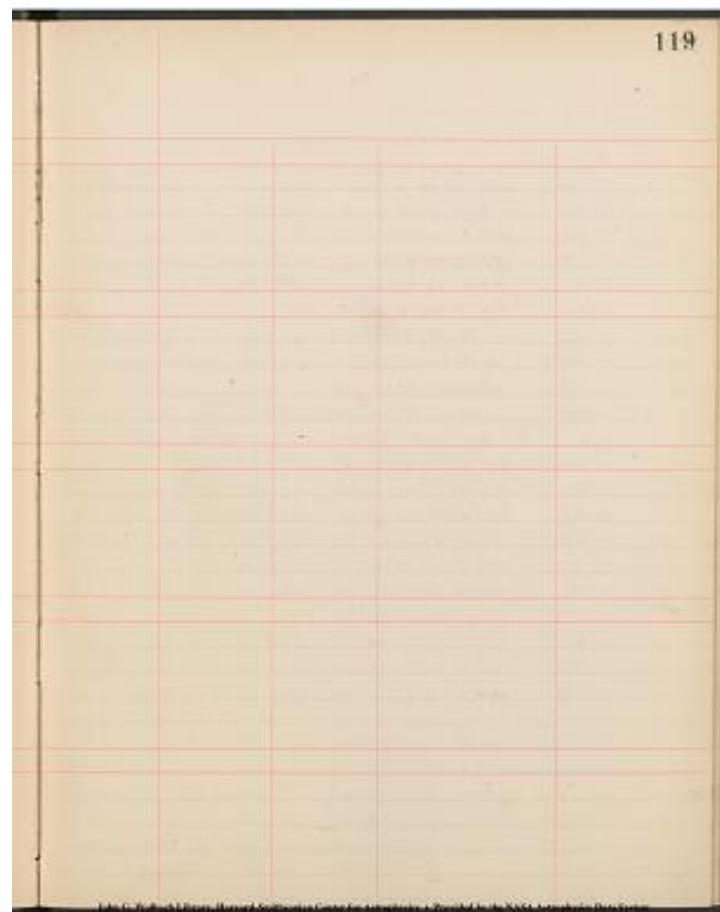
55|7.4|31.0|8.0|15.0|7.0|15.0| 150|300|-10|-90|210|930  
Large Hazy obj. Neb. 56|7.5|27.7|8.0|3.0|7.0|12.0|150|150|-10|-  
90|210|810  
169= 57|7.4|24.5|9.0|7.9|6.0|7.1|150|150|-30|+08|210|720  
58|7.1|9.2|14.5|13.0|0.5|2.1|150|151|-140|+109|210|270  
59|8.1|4.9|14.5|15.0|0.5|15.0|150|300|-140|0|240|120  
60|8.8|9.2|1.5|13.0|13.6|2.0|151|150|+121|+110|240|270  
61|8.4|13.6|2.9|5.9|12.1|9.1|150|150|+92|-32|240|390  
62|8.6|14.1|4.1|14.6|10.9|0.4|150|150|+68|+142|240|510  
63|8.5|24.6|6.9|4.0|8.1|11.0|150|150|+12|-40|240|810  
176= 64|8.4|32.4|9.9|11.0|5.1|4.1|150|151|-48|+69|240|960  
65|8.4|35.2|8.5|13.0|6.5|2.0|150|150|-20|+110|240|1050|  
Large hazy obj. Neb. spiral shape 66|8.4|41.1|2.5|13.9|12.5|  
1.1|150|150|+100|+128|240|1230  
67|8.9|46.2|0.5|12.9|14.6|2.0|151|149|+141|+109|240|1380  
68|9.1|46.5|14.0|7.0|1.0|8.1|150|151|-130|-11|240|1380  
69|9.4|35.4|10.9|11.0|4.1|4.0|150|150|-68|+70|270|1050  
183= 70|9.5|26.5|8.0|7.0|7.0|8.1|150|151|-10|-11|270|780  
186 71|9.8|24.1|2.1|14.0|12.9|1.0|150|150|+108|+13.0|270|720  
72|9.4|17.6|8.5|5.0|6.5|10.1|150|151|-20|-51|270|510  
73|9.6|7.9|4.5|1.0|10.5|14.0|150|150|+60|-130|270|210  
74|9.6|4.1|5.0|14.5|10.0|0.6|150|151|+50|+139|270|120  
75|10.8|4.2|2.5|12.5|12.5|2.6|150|151|+100|+99|300|120  
76|10.8|6.1|2.0|14.0|13.1|1.0|151|150|+111|+130|300|180  
77|10.6|10.6|4.1|6.5|10.9|8.5|150|150|+68|-20|300|300  
39= 78|10.5|18.6|7.0|3.8|8.0|11.2|150|150|+10|-74|300|540  
28 41= 79|10.5|20.0|7.9|15.0|7.2|15.0|151|300|-07|0|300|600  
188= 80|10.4|25.1|0.0|14.0|6.0|1.0|150|150|-30|130|300|750  
34= 81|10.5|27.5|6.5|7.6|8.5|7.4|150|150|20|02|300|810  
82|10.9|28.6|1.0|5.0|14.0|10.0|150|150|130|-50|300|840

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Measures of position of stars in vicinity of No. Pole August 30, 1910												
Star	x	y	A	B	C	D	a+c	B+D	c-a	B-D	xx30	yx30
55	7.4	31.0	8.0	15.0	7.0	15.0	150	300	-10	-90	210	930
56	7.5	27.7	8.0	3.0	7.0	12.0	150	150	-10	-90	210	810
57	7.4	24.5	9.0	7.9	6.0	7.1	150	150	-30	+08	210	720
58	7.1	9.2	14.5	13.0	0.5	2.1	150	151	-140	+109	210	270
59	8.1	4.9	14.5	15.0	0.5	15.0	150	300	-140	0	240	120
60	8.8	9.2	1.5	13.0	13.6	2.0	151	150	+121	+110	240	270
61	8.4	13.6	2.9	5.9	12.1	9.1	150	150	+92	-32	240	390
62	8.6	14.1	4.1	14.6	10.9	0.4	150	150	+68	+142	240	510
63	8.5	24.6	6.9	4.0	8.1	11.0	150	150	+12	-40	240	810
64	8.4	32.4	9.9	11.0	5.1	4.1	150	151	-48	+69	240	960
65	8.4	35.2	8.5	13.0	6.5	2.0	150	150	-20	+110	240	1050
66	8.4	41.1	2.5	13.9	12.5	1.1	150	150	+100	+128	240	1230
67	8.9	46.2	0.5	12.9	14.6	2.0	151	149	+141	+109	240	1380
68	9.1	46.5	14.0	7.0	1.0	8.1	150	151	-130	-11	240	1380
69	9.4	35.4	10.9	11.0	4.1	4.0	150	150	-68	+70	270	1050
70	9.5	26.5	8.0	7.0	7.0	8.1	150	151	-10	-11	270	780
71	9.8	24.1	2.1	14.0	12.9	1.0	150	150	+108	+13.0	270	720
72	9.4	17.6	8.5	5.0	6.5	10.1	150	151	-20	-51	270	510
73	9.6	7.9	4.5	1.0	10.5	14.0	150	150	+60	-130	270	210
74	9.6	4.1	5.0	14.5	10.0	0.6	150	151	+50	+139	270	120
75	10.8	4.2	2.5	12.5	12.5	2.6	150	151	+100	+99	300	120
76	10.8	6.1	2.0	14.0	13.1	1.0	151	150	+111	+130	300	180
77	10.6	10.6	4.1	6.5	10.9	8.5	150	150	+68	-20	300	300
78	10.5	18.6	7.0	3.8	8.0	11.2	150	150	+10	-74	300	540
79	10.5	20.0	7.9	15.0	7.2	15.0	151	300	-07	0	300	600
80	10.4	25.1	0.0	14.0	6.0	1.0	150	150	-30	130	300	750
81	10.5	27.5	6.5	7.6	8.5	7.4	150	150	20	02	300	810
82	10.9	28.6	1.0	5.0	14.0	10.0	150	150	130	-50	300	840

Project PHaEDRA - Evelyn F. Leland - New Satellite of Saturn and North Polar Sequence #29  
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[[no input]]



Project PHaEDRA - Evelyn F. Leland - New Satellite of Saturn and North  
Polar Sequence #29  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:40:10

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Measures of position of stars in vicinity of No. Pole  
Sept 9, 1910  
D14703

[[13 columns]]

|x|y|A|B|C|D|a+c|B+D|c-a|B-D|xx30|yx30  
|---|---|---|---|---|---|---|---|---|---|---|---|---|

83|10.2|35.5|13.0|7.0|2.0|8.0|120|120|-110|-10|300|1050  
84|10.4|46.6|9.5|5.5|5.6|9.5|151|150|-39|-40|300|1380  
85|11.5|45.9|7.1|1.5|7.9|13.5|150|150|+08|-120|330|1350  
86|11.6|39.3|6.0|11.5|9.0|3.5|150|150|+30|+80|330|1170  
87|11.9|18.2|0.6|12.5|14.5|2.6|151|151|+139|99|330|540  
88|11.5|17.6|7.5|4.1|7.5|10.9|150|150|0|-68|330|510  
192? 89|11.1|10.1|12.5|14.0|1.6|1.0|151|150|-119|+130|330|300  
90|12.7|9.5|2.9|7.9|12.1|7.1|150|150|+92|+08|360|270  
196? 91|12.3|13.4|12.0|9.5|3.0|6.0|12.0|9.0|150|150|-90|+39|360|390  
92|12.7|16.6|3.0|6.0|12.0|9.0|150|150|+90|-30|360|480  
93|12.2|23.6|12.9|3.9|2.1|11.1|150|150|-108|-72|360|690  
94|12.4|23.1|10.0|14.0|5.0|1.0|150|150|-50|+130|360|720  
95|12.7|33.7|2.9|3.5|12.1|11.5|150|150|+92|-80|360|990  
96|12.6|37.7|4.9|3.0|10.2|12.0|151|150|+53|-90|360|1110  
97|12.4|47.0|10.0|15.0|5.0|15.1|150|301|-50|-01|360|1410  
98|13.6|45.3|4.9|11.9|10.1|3.1|150|150|+52|+88|390|1350  
207=99|13.1|44.2|14.0|13.0|1.0|2.0|150|150|-130|+310|390|1320  
208=100|13.3|42.7|11.1|4.0|4.0|11.0|151|150|-71|-70|390|1260  
101|13.3|39.7|11.1|3.9|3.9|11.1|150|150|-72|-72|390|1170  
Round hazy obj-"neb"? 102|13.6|38.9|6.0|2.0|9.0|13.0|150|150|+30|-110|390|1140|  
103|13.3|34.7|11.9|3.5|3.1|11.5|150|150|-88|-80|390|1020|  
104|13.5|32.1|7.0|13.5|8.0|1.5|150|150|+10|+120|390|870|  
105|13.4|29.9|10.9|1.0|4.1|14.0|150|121|+110|-41|390|600|  
213= 106|13.8|20.6|2.0|5.5|13.0|9.6|150|151|+110|-41|390|600|  
29 40= 107|13.6|17.8|6.0|2.5|9.1|12.6|151|151|+21|-101|390|510|  
108|13.1|16.1|13.9|14.5|1.1|0.5|150|150|-128|+140|390|480|  
109|13.9|14.1|1.5|14.9|13.6|0.2|151|151|+121|+147|390|420|  
214= 110|14.1|3.5|14.0|7.5|1.0|7.5|1.0|7.5|150|150|-130|0|420|90|  
John G. Wolbach Library, Harvard Smithsonian Center for  
Astrophysics.Provided by the NASA Astrophysics Data System

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Measures of position of stars  
in vicinity of No. Pole  
Sept. 9, 1910.

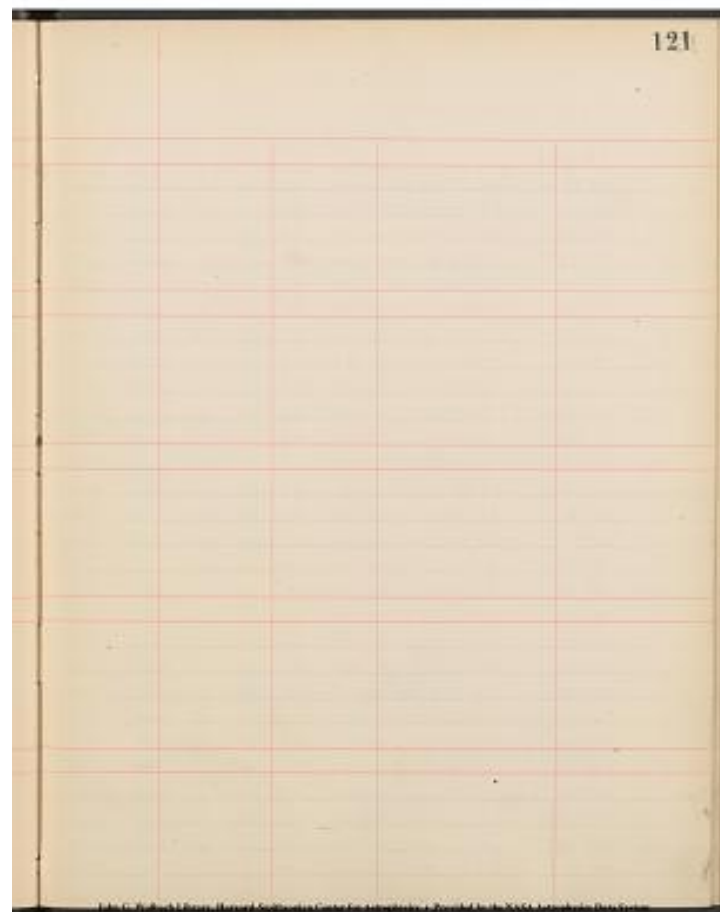
Biggs

	x	y	A	B	C	D	a+c	B+D	c-a	B-D	xx30	yx30			
83	10.2	35.5	13.0	7.0	2.0	8.0	120	120	-110	-10	300	1050			
84	10.4	46.6	9.5	5.5	5.6	9.5	151	150	-39	-40	300	1380			
85	11.5	45.9	7.1	1.5	7.9	13.5	150	150	+08	-120	330	1350			
86	11.6	39.3	6.0	11.5	9.0	3.5	150	150	+30	+80	330	1170			
87	11.9	18.2	0.6	12.5	14.5	2.6	151	151	+139	99	330	540			
88	11.5	17.6	7.5	4.1	7.5	10.9	150	150	0	-68	330	510			
192?	89	11.1	10.1	12.5	14.0	1.6	1.0	151	150	-119	+130	330	300		
90	12.7	9.5	2.9	7.9	12.1	7.1	150	150	+92	+08	360	270			
196?	91	12.3	13.4	12.0	9.5	3.0	6.0	12.0	9.0	150	150	-90	+39	360	390
92	12.7	16.6	3.0	6.0	12.0	9.0	150	150	+90	-30	360	480			
93	12.2	23.6	12.9	3.9	2.1	11.1	150	150	-108	-72	360	690			
94	12.4	23.1	10.0	14.0	5.0	1.0	150	150	-50	+130	360	720			
95	12.7	33.7	2.9	3.5	12.1	11.5	150	150	+92	-80	360	990			
96	12.6	37.7	4.9	3.0	10.2	12.0	151	150	+53	-90	360	1110			
97	12.4	47.0	10.0	15.0	5.0	15.1	150	301	-50	-01	360	1410			
98	13.6	45.3	4.9	11.9	10.1	3.1	150	150	+52	+88	390	1350			
207=99	13.1	44.2	14.0	13.0	1.0	2.0	150	150	-130	+110	390	1320			
208=100	13.3	42.7	11.1	4.0	4.0	11.0	151	150	-71	-70	390	1260			
101	13.3	39.7	11.1	3.9	3.9	11.1	150	150	-72	-72	390	1170			
Round hazy obj-"neb"?	102	13.6	38.9	6.0	2.0	9.0	13.0	150	150	+30	-110	390	1140		
103	13.3	34.7	11.9	3.5	3.1	11.5	150	150	-88	-80	390	1020			
104	13.5	32.1	7.0	13.5	8.0	1.5	150	150	+10	+120	390	870			
105	13.4	29.9	10.9	1.0	4.1	14.0	150	121	+110	-41	390	600			
213=	106	13.8	20.6	2.0	5.5	13.0	9.6	150	151	+110	-41	390	510		
29 40=	107	13.6	17.8	6.0	2.5	9.1	12.6	151	151	+21	-101	390	420		
108	13.1	16.1	13.9	14.5	1.1	0.5	150	150	-128	+140	390	480			
109	13.9	14.1	1.5	14.9	13.6	0.2	151	151	+121	+147	390	420			
214=	110	14.1	3.5	14.0	7.5	1.0	7.5	1.0	7.5	150	150	-130	0	420	90

Project PHaEDRA - Evelyn F. Leland - New Satellite of Saturn and North  
Polar Sequence #29  
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[[no input]]



Project PHaEDRA - Evelyn F. Leland - New Satellite of Saturn and North  
Polar Sequence #29  
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Measures of position of stars in vicinity of No. Pole.

Sept. 8, 1910

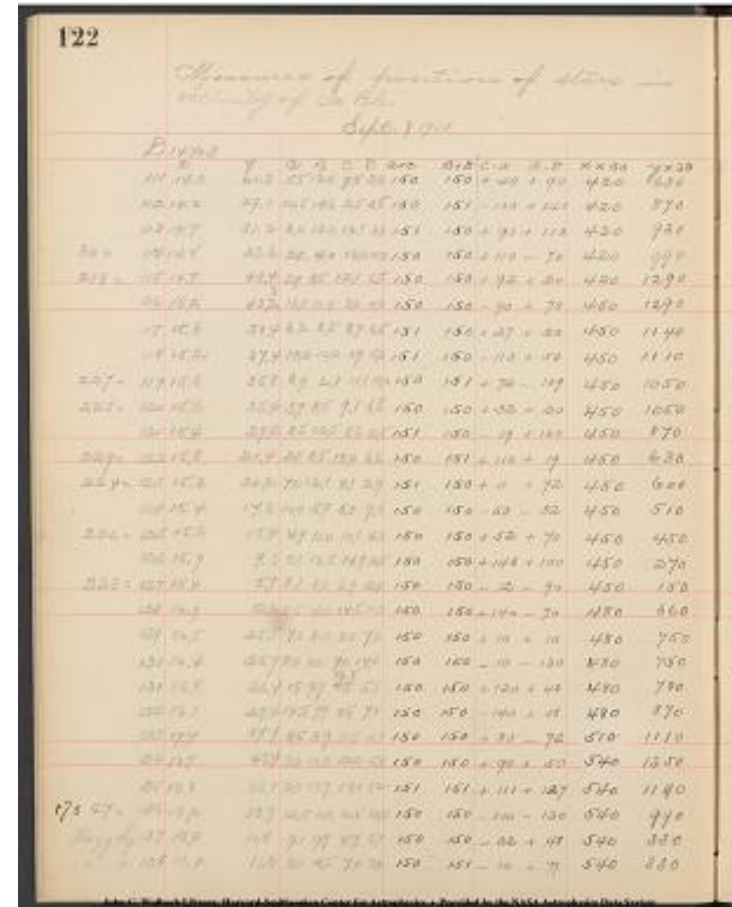
D14703

[[13 column table]]

|x|y|A|B|C|D|A+C|B+D|C-A|B-D|Xx30|Yx30|

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

111| 14.6|21.3|5.5|12.0|9.5|3.0|150|150|+40|+90|420|630|  
 112| 14.2|29.1|12.5| 14.6|2.5|0.5|150|151|-100|+141|420|870|  
 113| 14.7|31.2|3.0|13.0|12.1|2.0|151|150|+91|+110|420|930|  
 30= 114| 14.8|33.6|2.0|4.0|13.0|11.0|150|150|+110|-70|420|990|  
 218= 115| 14.7|43.4|2.9|8.5|12.1|6.5|150|150|+92|+20|420|1290|  
 116| 15.2|43.1|~~12.0~~|~~12.0~~|~~12.0~~|~~12.0~~|150|150|+90|+70|450|1290|  
 3|12.0|11.0|3.0|4.0|150|150|-90|+70|450|1290|  
 117| 15.6|38.4|6.2|8.5|8.9|6.5|151|150|+27|+20|450|1140|  
 118| 15.2|37.4|13.2|10.0|1.9|5.0|151|150|-113|+50|450|1110|  
 227= 119| 15.6|35.8|3.9|2.1|11.1|13.0|150|151|+72|-109|450|1050|  
 225= 120| 15.6|35.4|5.9|8.5|9.1|6.5|150|150|+32|+20|450|1050|  
 121| 15.4|29.2|8.5|12.5|6.6|2.5|151|150|-19|+100|450|840|  
 229= 122| 15.8|21.4|2.0|8.5|13.0|6.6|150|151|+110|+19|450|630|  
 224= 123| 15.6|20.2|7.0|12.1|8.1|2.9|151|150|+11|+92|450|600|  
 124| 15.4|17.6|10.0|5.9|5.0|9.1|150|150|-50|-32|450|510|  
 226= 125| 15.6|15.4|4.9|11.0|10.1|4.0|150|150|+52|+70|450|450|  
 126| 15.9|9.3|0.1|12.5|14.9|2.5|150|150|+148|+100|450|270|  
 223= 127| 15.4|5.7|8.1|3.0|6.9|12.0|150|150|-12|-90|450|150|  
 128| 16.9|12.6|0.5|4.0|14.5|11.0|150|150|+140|-70|480|360|  
 129| 16.5|25.5|7.0|8.0|8.0|7.0|150|150|+10|+10|480|750|  
 130| 16.4|25.9|8.0|1.0|7.0|14.0|150|150|-10|-130|480|750|  
 131| 16.8|26.4|1.5|9.9|~~12.0~~|~~12.0~~|~~12.0~~|8.5|~~12.0~~|~~12.0~~|~~12.0~~|~~12.0~~|  
 13.5|5.1|150|150|+120|+48|480|780|  
 132| 16.1|29.4|14.5|7.9|0.5|7.1|150|150|-140|+08|480|870|  
 133| 17.7|37.7|3.5|3.9|11.5|11.1|150|150|+80|-72|510|1110|  
 134| 18.7|45.4|3.0|10.0|12.0|5.0|150|150|+90|+50|540|1350|  
 135| 18.8|38.1|2.0|13.9|13.1|1.2|151|151|+111|+124|540|1140|  
 175 47= 136| 18.2|33.9|12.5|1.0|2.5|14.0|150|150|-100|-130|540|990|  
 Hazy obj 137| 18.4|11.4|9.1|9.9|5.9|5.1|150|150|-32|+48|540|330|  
 Hazy obj 138| 18.4|11.3|8.0|11.5|7.0|3.6|150|151|-10|+79|540|330|

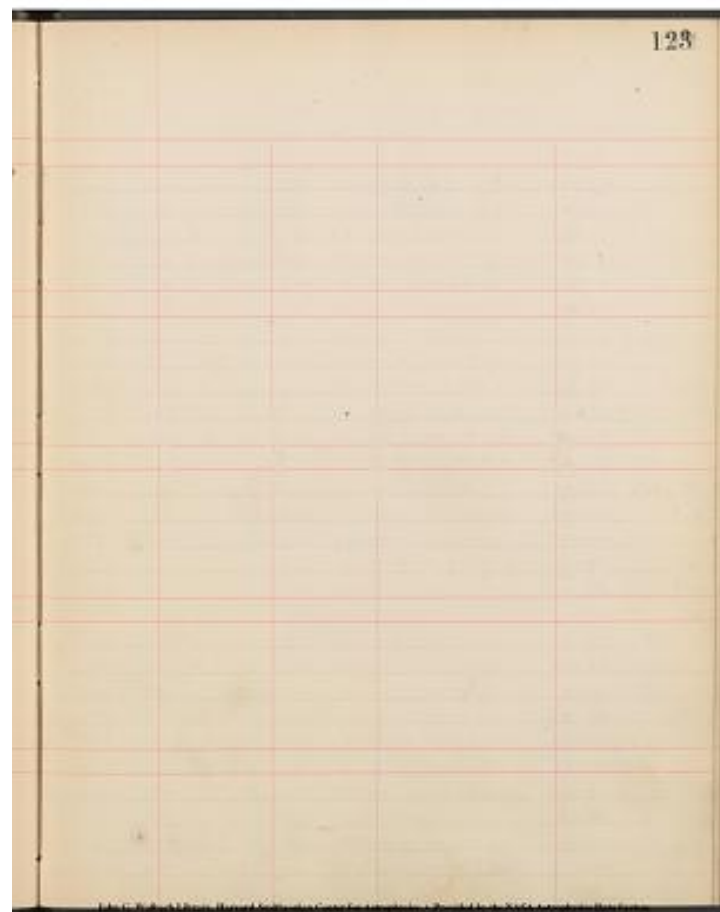


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123

[[no input]]



Project PHaEDRA - Evelyn F. Leland - New Satellite of Saturn and North  
Polar Sequence #29  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:40:10

124 | Measures of the position of stars in the vicinity of No Pole. Sept 12, 1910.  
D14703

[[13 columned table]]  
|---|---|---|---|---|---|---|

|initial number| X | Y | A | B | C | D |A+C|B+D|C-A|B-D|Xx30|yx30|

|139|18.3|3.7|12.0|2.6|3.0|12.5|150|151|-90|-99|540|90|

|140|19.4|8.6|10.0|6.0|5.0|9.0|150|150|-50|-30|570|240|

|~~244~~ [striketrough] 247 [arrow]  
|141|19.5|9.8|7.5|2.0|7.5|13.0|150|150|0|-110|570|270|

|142|19.8|11.9|2.0|0.1|13.0|14.9|150|150|+110|-148|570|330|

|143|19.4|12.5|10.2|8.0|4.9|7.0|151|150|-53|+10|570|360|

|144|19.1|16.7|14.5|2.5|0.5|12.5|150|150|-140|-100|570|480|

^[[Large hazy obj circular Neb]]

|145|19.5|26.7|8.0|2.9|7.1|12.1|151|150|-09|-92|570|780|

|146|19.6^[[19.7]]|32.0|4.5|15.0|1.05|15.1|150|301|+60|-01|570|960|

^[[190]]|147|19.7^[[19.8]]|33.6^[[33.6]]|3.0|5.1|12.1|10.0|151|151|+91|-49|570|990|

^[[115]] 38=|148|20.5|33.0|6.9|14.9|8.1|0.2|150|151|+12|+147|600|990|

|149|20.4|33.3|10.1|12.0|4.9|3.0|150|150|-52|+90|600|990|

42=|150|20.7|31.4|3.0|11.5|12.0|3.6|150|151|+90|+79|600|930|

^[[34]]48=|151|20.7|30.2|3.9|13.0|11.1|2.0|150|150|+72|+110|600|900|

^[[235]]|152|20.6^[[20.7]]|27.0^[[27.0]]|4.0|15.0|11.0|15.0|150|300|+70|0|600|810|

43=|153|20.8|26.4|2.0|10.0|13.0|5.0|150|150|+110|+50|600|780|

^[[345]]|154|20.2|23.9|12.9|1.5|2.2|13.5|151|150|-107|-120|600|690|

^[[245]]|155|20.0^[[20.0]]|22.3^[[22.2]]|15.0|11.6|15.0|3.5|300|151|0|+81|600|660|

^[[42]]|156|20.9|20.5|1.0|7.0|14.0|8.0|150|150|+130|-10|600|600|

256=|157|20.6|11.1|5.0|14.5|10.0|0.5|150|150|+50|+140|600|330|

|158|21.7|3.5|2.0|7.1|13.0|8.0|150|151|+110|-09|630|90|

|159|21.1|14.4|14.9|11.0|0.2|4.0|151|150|-147|+70|630|420|

^[[185]]|160|21.3^[[21.2]]|26.5^[[26.4]]|12.0|8.0|3.0|7.0|150|150|-  
90|+10|630|780|

^[[circular hazy  
object]]|161|21.2|28.9|12.1|0.5|3.0|14.5|151|150|-91|-140|630|840|

33=|162|21.9|41.4|1.1|9.0|13.9|6.0|150|150|+128|+30|630|1230|

|163|21.9|47.0|0.1|15.0|14.9|15.0|150|300^[[symbol]]|+148|0|630|1410|

|164|22.1|46.3|13.1|12.0|1.9|3.0|150|150|-112|+90|660|1380|

|165|22.6|44.4|6.0|11.0|9.0|4.1|150|151|+30|+69|660|1320|

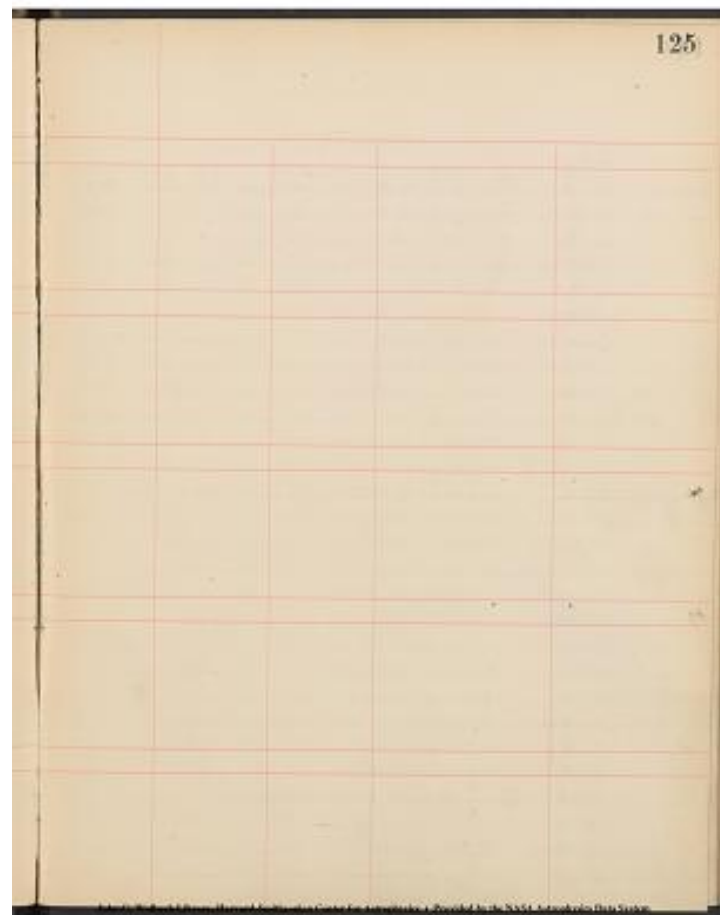
|166|22.4|37.7|10.9|3.0|4.1|12.0|150|150|-68|-90|660|1110|

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Project PHaEDRA - Evelyn F. Leland - New Satellite of Saturn and North  
Polar Sequence #29  
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Project PHaEDRA - Evelyn F. Leland - New Satellite of Saturn and North  
Polar Sequence #29  
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Measures of the positions of stars in  
vicinity of No. Pole

Sept 16, 1910

D14703

[[13 columns]]

| x | y | a | B | C | D | a+C | B+D | C-a | B-D | xx30 | yx30

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

~~See No 165~~ ~~167~~ | 22.6 |  
~~44.4~~ ~~339~~ | 6.6 | 15.0 | 8.5 | 15.0 | 150 |  
 150 | + 30 | + 68 | 660 | ~~132~~ ~~990~~  
~~See~~ ~~No~~ ~~164~~ +  
~~36~~ | 168 | 22.6 |  
~~46.3~~ ~~23.3~~ | 12.9 | 11.5 | 2.1 | 3.5 | 151 |  
 150 | - 119 | + 90 | 660 | ~~138~~ ~~690~~  
 169 | 23.7 | 45.1 | 3.5 | 14.0 | 11.6 | 1.0 | 151 | 150 | +81 | +130 | 690 |  
 1350  
 28 = 170 | 23.5 | 40.5 | 8.1 | 7.0 | 7.0 | 8.0 | 151 | 150 | -11 | -10 | 690 |  
 1200  
 171? | 23.8 | 11.4 | 2.0 | 10.5 | 13.0 | 4.6 | 150 | 151 | +90 | +59 | 690 |  
 330  
 172 | 24.4 | 14.9 | 9.5 | 1.1 | 5.5 | 13.9 | 150 | 150 | -40 | -128 | 720 | 420  
 173 | 24.2 | 16.2 | 13.1 | 13.5 | 1.9 | 1.5 | 150 | 150 | -112 | +120 | 720 |  
 480  
 35 49= 174 | 24.6<sup>□</sup> | 22.4<sup>□</sup> | 4.5 | 9.0 | 10.6 | 6.0 | 151 | 150 | +61 |  
 +30 | 720 | 660  
 175 | 24.6 | 32.4 | 4.5 | 8.5 | 10.6 | 6.6 | 151 | 151 | +61 | +19 | 720 | 960  
 277= 176 | 24.6 | 43.3 | 4.9 | 11.9 | 10.1 | 3.1 | 150 | 150 | +52 | +88 |  
 720 | 1290  
 177 | 25.2 | 46.4 | 12.5 | 9.0 | 2.5 | 6.0 | 150 | 150 | -100 | +30 | 750 |  
 1380  
 178 | 25.4 | 41.8 | 10.5 | 2.1 | 4.5 | 12.9 | 150 | 150 | -60 | -108 | 750 |  
 1230  
 33 46= 179 | 25.4<sup>□</sup> | 38.6<sup>□</sup> | 8.5 | 6.5 | 6.5 | 8.6 | 150 | 151 | -20 | -21  
 |  
 180 | 25.8 | 38.3 | 1.9 | 12.0 | 13.2 | 3.0 | 151 | 150 | +113 | +90 | | |  
 181 | 25.4 | 33.6 | 9.4 | 5.5 | 5.6 | 9.5 | 150 | 150 | -38 | -40 | | |  
 182 | 25.4 | 32.1 | 10.0 | 13.6 | 5.0 | 1.4 | 150 | 150 | -50 | +122 | | |  
 31= 183 | 25.7 | 26.4 | 2.6 | 8.0 | 12.5 | 7.1 | 151 | 151 | +99 | +09 | | |  
 36 50= 184 | 25.4<sup>✓</sup> | 23.7<sup>✓</sup> | | | | | | | | | |  
 10.0 | 3.0 | 5.0 | 12.0 | 150 | 150 | -50 | -90 | | |  
 185 | 25.5 | 10.3 | 8.0 | 12.0 | 7.0 | 3.0 | 150 | 150 | -10 | +90 | | |  
 Faint-hazy 186<sup>?</sup> | 25.9 | 9.6 | 2.1 | 5.0 | 12.9 | 10.0 | 150 | 150 | +108  
 | -50 | | | | | | | | | |  
 187 | 27.2 | 88 | 12.5 | 1.9 | 2.5 | 131 | 150 | 150 | -100 | -112 | | |  
 188 | 27.4 | 11.6 | 10.9 | 3.9 | 4.1 | 11.1 | 150 | 150 | -68 | -72 | | |  
 40 189 | 27.4<sup>?</sup> | 27.3<sup>?</sup> | 22.9<sup>?</sup> | 10.9 | 0.1 | 4.1 | 14.9 | 150 | 150 | -  
 68 | -148 | | | | | | | | | |  
 190 | 27.3 | 23.3 | 11.1 | 12.0 | 3.9 | 3.0 | 150 | 150 | -72 | +90 | | |  
 41 191 | 27.9 | 25.6<sup>?</sup> | 25.7<sup>?</sup> | 0.9 | 4.0 | 14.1 | 11.0 | 150 | 150 | +132 | -  
 70 | | | | | | | | | |  
 30s 192 | 27.8<sup>?</sup> | 27.3<sup>?</sup> | 2.0 | 11.0 | 13.0 | 4.0 | 150 | 150 | 150 |  
 +110 | +70 | | | | | | | | | |  
 38 52= 193 | 27.1 | 29.9 | 14.0 | 0.1 | 1.0 | 15.0 | 150 | 151 | -130 | -149 |  
 | | | | | | | | | |

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*Measures of the positions of stars in  
vicinity of No. Pole*

*Sept 16, 1910*

	x	y	a	B	C	D	a+C	B+D	C-a	B-D	xx30	yx30	
169	23.7	45.1	3.5	14.0	11.6	1.0	151	150	+81	+130	690	1350	
28	170	23.5	40.5	8.1	7.0	7.0	8.0	151	150	-11	-10	690	
171?	23.8	11.4	2.0	10.5	13.0	4.6	150	151	+90	+59	690	330	
172	24.4	14.9	9.5	1.1	5.5	13.9	150	150	-40	-128	720	420	
173	24.2	16.2	13.1	13.5	1.9	1.5	150	150	-112	+120	720	480	
35 49=	174	24.6 <sup>□</sup>	22.4 <sup>□</sup>	4.5	9.0	10.6	6.0	151	150	+61	+30	720	660
175	24.6	32.4	4.5	8.5	10.6	6.6	151	151	+61	+19	720	960	
277=	176	24.6	43.3	4.9	11.9	10.1	3.1	150	150	+52	+88	720	1290
177	25.2	46.4	12.5	9.0	2.5	6.0	150	150	-100	+30	750	1380	
178	25.4	41.8	10.5	2.1	4.5	12.9	150	150	-60	-108	750	1230	
33 46=	179	25.4 <sup>□</sup>	38.6 <sup>□</sup>	8.5	6.5	6.5	8.6	150	151	-20	-21		
180	25.8	38.3	1.9	12.0	13.2	3.0	151	150	+113	+90			
181	25.4	33.6	9.4	5.5	5.6	9.5	150	150	-38	-40			
182	25.4	32.1	10.0	13.6	5.0	1.4	150	150	-50	+122			
31=	183	25.7	26.4	2.6	8.0	12.5	7.1	151	151	+99	+09		
36 50=	184	25.4 <sup>✓</sup>	23.7 <sup>✓</sup>										
10.0	3.0	5.0	12.0	150	150	-50	-90						
185	25.5	10.3	8.0	12.0	7.0	3.0	150	150	-10	+90			
Faint-hazy	186 <sup>?</sup>	25.9	9.6	2.1	5.0	12.9	10.0	150	150	+108			
-50													
187	27.2	88	12.5	1.9	2.5	131	150	150	-100	-112			
188	27.4	11.6	10.9	3.9	4.1	11.1	150	150	-68	-72			
40 189	27.4 <sup>?</sup>	27.3 <sup>?</sup>	22.9 <sup>?</sup>	10.9	0.1	4.1	14.9	150	150	-			
68	-148												
190	27.3	23.3	11.1	12.0	3.9	3.0	150	150	-72	+90			
41 191	27.9	25.6 <sup>?</sup>	25.7 <sup>?</sup>	0.9	4.0	14.1	11.0	150	150	+132	-		
70													
30s 192	27.8 <sup>?</sup>	27.3 <sup>?</sup>	2.0	11.0	13.0	4.0	150	150	150				
+110	+70												
38 52=	193	27.1	29.9	14.0	0.1	1.0	15.0	150	151	-130	-149		
Faint-hazy 194	27.2	29.2	14.0	0.1	1.0	15.0	150	150	-11	-92			

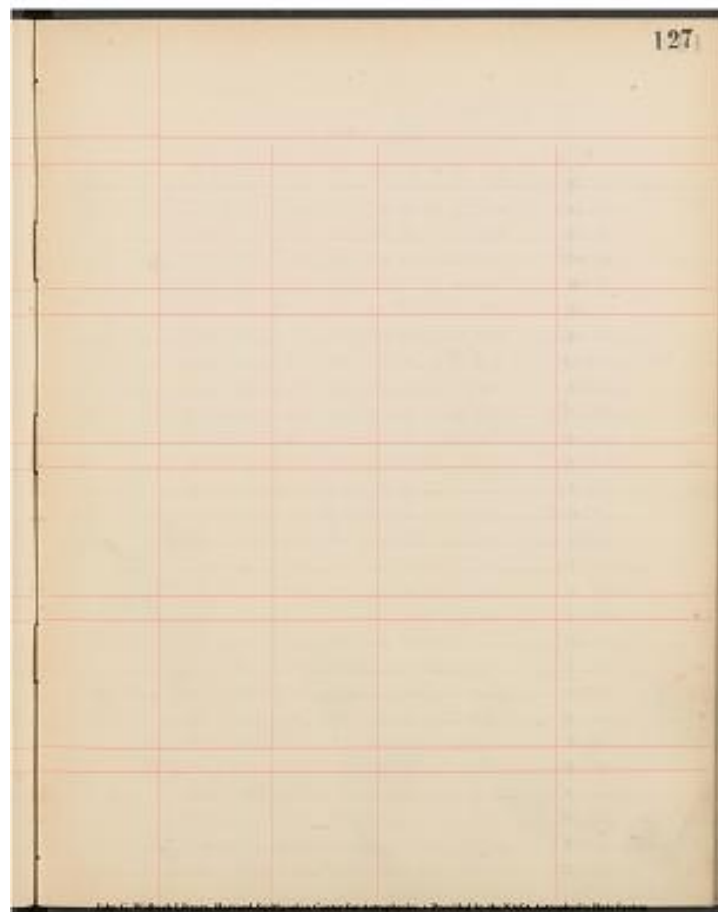
Faint-hazy 194^[[?]] | 27.4 | 40.8 | 8.1 | 2.9 | 7.0 | 12.1 | 151 | 150 | -11 | -  
92 | |

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[[symbol - dot]] Provided by the NASA Astrophysics Data System

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Polar Sequence #29  
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[[no input]]



Project PHaEDRA - Evelyn F. Leland - New Satellite of Saturn and North  
Polar Sequence #29  
Transcribed and Reviewed by Digital Volunteers  
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Measures of position of stars in vicinity of No Pole.

Sept. 16, 1910

D14703

[4 columns]

| x y | A B C D | A+C B+D C-A B-D |

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

Round hazy object ft 195|27.7 31.6|3.0 5.1 12.0 10.0|150 151 +90 -49 |  
 196|28.6 45.1|5.0 14.5 10.0 0.5 |150 150 +50 +140|  
 197|28.4 44.4|8.1 10.0 4.0 5.0 |151 150 -11 +50 |  
 198|28.6 44.3|3.9 11.0 11.1 4.1 |150 151 +72 +69 |  
 199|28.4 44.4|2.6 9.1 12.5 5.9 |151 150 +99 +32 |  
 200|28.0 42.4|15.1 3.0 15.0 12.0|301 150 -01 -90 |  
 201|28.4 42.4|9.5 9.5 5.6 5.5 |151 150 -39 +40 |  
 295=202|28.9 42.4|0.5 9.9 14.5 5.1 |150 150 +140 +48 |  
 203|28.6 35.4|4.9 10.0 10.1 5.0 |150 150 +52 +50 |  
 204|28.6 30.9|5.0 0.1 10.0 14.9|150 150 +50 -148|  
 43 205|28.3^|[s8.3]] 27.3^|[27.2]]|11.0 11.9 4.0 3.1 |150 150 -70 +88 |  
 44 206|28.1 26.8|14.1 2.0 1.0 13.1|151 151 -131 -111|  
 207|28.6 20.6|5.0 5.5 10.0 9.5 |150 150 +50 -40 |  
 208|28.4 18.3|8.1 11.1 7.0 4.0 |151 151 -11 +41 |  
 209|28.6 14.9|6.5 0.1 8.5 14.9|150 150 +20 -148|  
 210|28.4 11.1|8.5 14.0 6.6 1.0 |151 150 -19 +130|  
 211|28.9 8.3|1.1 12.0 14.0 3.0 |151 150 +129 +90 |  
 212|29.4 13.8|4.0 2.0 11.1 13.0|151 150 +71 -110|  
 299 213|29.9 17.6|1.5 6.0 13.5 9.0 |150 150 +120 -30 |  
 20s 214|29.6^|[29.8]] 19.5|3.0 7.0 12.0 8.1 |150 151 +90 -11 |  
 39 215|29.9^|[30.0]] 26.4^|[26.3]]|0.1 9.9 14.9 5.1 |150 150 +148 +48 |  
 45 216|29.1 27.4|13.9 8.0 1.1 7.0 |150 150 -128 +10 |  
 Defect 217|29.4 34.6|9.9 5.0 5.1 10.0|150 150 -48 -50 |  
 218|29.8 40.5|1.9 7.9 13.1 7.1 |150 150 +112 +08 |  
 219|29.4 43.6|9.0 4.9 6.0 10.1|150 150 -30 -52 |  
 32=220|30.4 40.3|11.1 12.1 4.0 2.9 |151 150 -71 +92 |  
 29=221|30.4 33.1|9.0 13.0 6.0 2.0 |150 150 -30 +111|  
 37 51=222|30.4 28.8|3.0 2.5 12.0 12.5|150 150 +90 -100|

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*Measures of position of stars in vicinity of No Pole.*  
*Sept. 16, 1910*

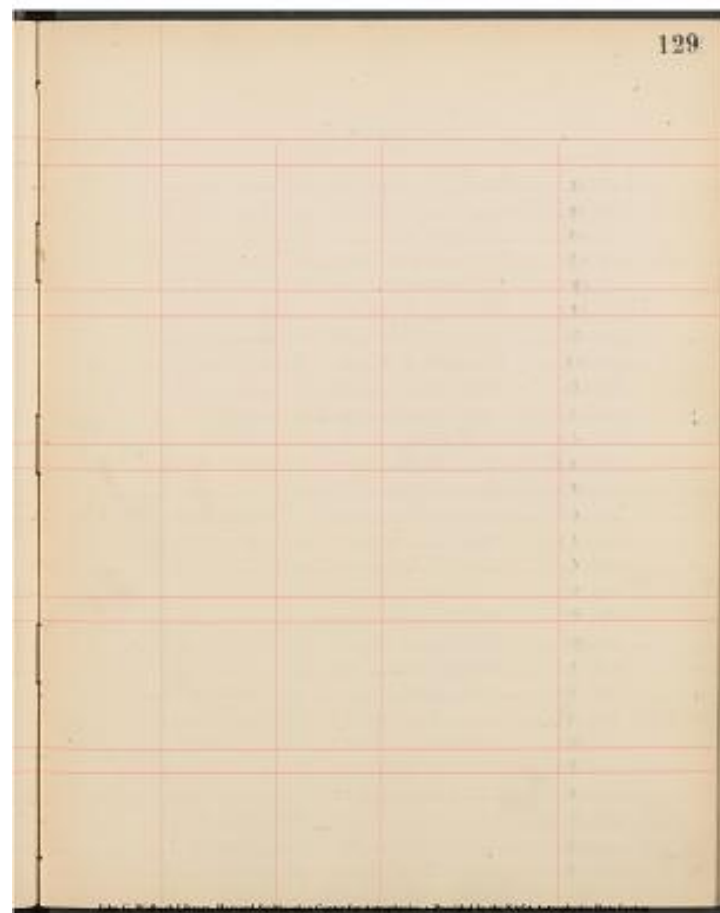
	x	y	A	B	C	D	A+C	B+D	C-A	B-D	
195	27.7	31.6	3.0	5.1	12.0	10.0	150	151	+90	-49	
196	28.6	45.1	5.0	14.5	10.0	0.5	150	150	+50	+140	
197	28.4	44.4	8.1	10.0	4.0	5.0	151	150	-11	+50	
198	28.6	44.3	3.9	11.0	11.1	4.1	150	151	+72	+69	
199	28.4	44.4	2.6	9.1	12.5	5.9	151	150	+99	+32	
200	28.0	42.4	15.1	3.0	15.0	12.0	301	150	-01	-90	
201	28.4	42.4	9.5	9.5	5.6	5.5	151	150	-39	+40	
295=202	28.9	42.4	0.5	9.9	14.5	5.1	150	150	+140	+48	
203	28.6	35.4	4.9	10.0	10.1	5.0	150	150	+52	+50	
204	28.6	30.9	5.0	0.1	10.0	14.9	150	150	+50	-148	
43 205	28.3 <sup>1</sup>	[s8.3]]	27.3 <sup>1</sup>	[27.2]]	11.0	11.9	4.0	3.1	150	150	-70 +88
44 206	28.1	26.8	14.1	2.0	1.0	13.1	151	151	-131	-111	
207	28.6	20.6	5.0	5.5	10.0	9.5	150	150	+50	-40	
208	28.4	18.3	8.1	11.1	7.0	4.0	151	151	-11	+41	
209	28.6	14.9	6.5	0.1	8.5	14.9	150	150	+20	-148	
210	28.4	11.1	8.5	14.0	6.6	1.0	151	150	-19	+130	
211	28.9	8.3	1.1	12.0	14.0	3.0	151	150	+129	+90	
212	29.4	13.8	4.0	2.0	11.1	13.0	151	150	+71	-110	
299 213	29.9	17.6	1.5	6.0	13.5	9.0	150	150	+120	-30	
20s 214	29.6 <sup>1</sup>	[29.8]]	19.5	3.0	7.0	12.0	8.1	150	151	+90 -11	
39 215	29.9 <sup>1</sup>	[30.0]]	26.4 <sup>1</sup>	[26.3]]	0.1	9.9	14.9	5.1	150	150	+148 +48
45 216	29.1	27.4	13.9	8.0	1.1	7.0	150	150	-128	+10	
Defect 217	29.4	34.6	9.9	5.0	5.1	10.0	150	150	-48	-50	
218	29.8	40.5	1.9	7.9	13.1	7.1	150	150	+112	+08	
219	29.4	43.6	9.0	4.9	6.0	10.1	150	150	-30	-52	
32=220	30.4	40.3	11.1	12.1	4.0	2.9	151	150	-71	+92	
29=221	30.4	33.1	9.0	13.0	6.0	2.0	150	150	-30	+111	
37 51=222	30.4	28.8	3.0	2.5	12.0	12.5	150	150	+90	-100	

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[[no input]]



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Polar Sequence #29  
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Measures of position of stars in vicinity of No. Pole.

Sept 16, 1910

D14703

[[4 columns]]

| x y | A B C D | A+C B+D C-A B-D |

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

223	30.7 27.8	4.0 2.5 11.0 12.6	150 151 +70 -101		
29s 224	30.4^	[3]	23.9	11.0 1.0 4.0 14.0	150 150 -70 -130
225	30.1 19.5	13.5 4.5 1.5 7.6	150 151 -120 -01		
301=226	30.4 14.4	11.1 11.5 4.0 3.5	151 150 -41 +80		
227	30.8 16.7	1.9 3.5 13.1 11.5	150 150 +112 -80		
304=228	30.7 5.6	2.5 4.1 12.6 10.9	151 150 +101 -68		
229	31.1 4.6	14.5 4.0 0.5 11.0	150 150 -140 -70		
230	31.6 9.2	5.9 12.9 9.1 2.1	150 150 +32 +108		
231	31.1 13.5	14.9 8.0 0.1 7.0	150 150 -148 +10		
232	31.9 14.4	1.0 10.1 14.0 5.0	150 151 +130 +51		
233	31.4 15.4	8.5 9.8 6.5 5.3	150 151 -20 +45		
234	31.4 20.4	9.5 9.8 5.6 5.2	151 150 -39 +46		
Ft-hazy obj 235	31.9 30.4	0.5 9.5 14.5 5.5	150 150 +140 +40		
236	31.5 33.2	7.0 13.0 8.0 2.1	150 151 +10 +109		
237	31.4 33.7	8.0 3.1 7.1 12.0	151 151 -09 -89		
238	31.6 45.2	6.6 13.0 8.4 2.1	150 151 +18 +109		
239	32.6 43.4	6.0 8.0 9.0 7.0	150 150 +30 +10		
240	32.6 38.5	4.1 7.0 10.9 8.0	150 150 +68 -10		
241	32.8 35.4	2.5 11.0 12.6 4.0	151 150 +101 +40		
242	32.6 18.6	6.5 5.5 8.5 9.5	150 150 +20 -40		
243	32.6 9.6	4.0 5.5 11.0 9.5	150 150 +40 -40		
319=244	32.1 5.6	14.6 4.0 0.5 11.0	151 150 -141 -40		
245	33.3 3.5	12.0 8.5 3.0 6.5	150 150 -90 +20		
329=246	33.6 5.0	3.0 15.0 12.0 15.0	150 300 +90 0		
323=247	33.1 13.8	14.5 2.0 0.5 13.0	150 150 -140 -110		
248	33.1 23.4	14.1 8.0 0.9 7.0	150 150 -132 +10		
37=249	33.4 23.6	10.1 4.1 5.0 10.9	151 150 -51 -68		
250	33.6 32.9	4.1 0.9 11.0 14.1	151 150 +69 -132		

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Measures of position of stars in vicinity of No. Pole									
Sept 16, 1910									
E. F. Leland									
x y   A B C D   A+C B+D C-A B-D									
223	30.7	27.8	4.0	2.5	11.0	12.6	150	151	+70 -101
29s 224	30.4								
225	30.1	19.5	13.5	4.5	1.5	7.6	150	151	-120 -01
301=226	30.4	14.4	11.1	11.5	4.0	3.5	151	150	-41 +80
227	30.8	16.7	1.9	3.5	13.1	11.5	150	150	+112 -80
304=228	30.7	5.6	2.5	4.1	12.6	10.9	151	150	+101 -68
229	31.1	4.6	14.5	4.0	0.5	11.0	150	150	-140 -70
230	31.6	9.2	5.9	12.9	9.1	2.1	150	150	+32 +108
231	31.1	13.5	14.9	8.0	0.1	7.0	150	150	-148 +10
232	31.9	14.4	1.0	10.1	14.0	5.0	150	151	+130 +51
233	31.4	15.4	8.5	9.8	6.5	5.3	150	151	-20 +45
234	31.4	20.4	9.5	9.8	5.6	5.2	151	150	-39 +46
Ft-hazy obj 235	31.9	30.4	0.5	9.5	14.5	5.5	150	150	+140 +40
236	31.5	33.2	7.0	13.0	8.0	2.1	150	151	+10 +109
237	31.4	33.7	8.0	3.1	7.1	12.0	151	151	-09 -89
238	31.6	45.2	6.6	13.0	8.4	2.1	150	151	+18 +109
239	32.6	43.4	6.0	8.0	9.0	7.0	150	150	+30 +10
240	32.6	38.5	4.1	7.0	10.9	8.0	150	150	+68 -10
241	32.8	35.4	2.5	11.0	12.6	4.0	151	150	+101 +40
242	32.6	18.6	6.5	5.5	8.5	9.5	150	150	+20 -40
243	32.6	9.6	4.0	5.5	11.0	9.5	150	150	+40 -40
319=244	32.1	5.6	14.6	4.0	0.5	11.0	151	150	-141 -40
245	33.3	3.5	12.0	8.5	3.0	6.5	150	150	-90 +20
329=246	33.6	5.0	3.0	15.0	12.0	15.0	150	300	+90 0
323=247	33.1	13.8	14.5	2.0	0.5	13.0	150	150	-140 -110
248	33.1	23.4	14.1	8.0	0.9	7.0	150	150	-132 +10
37=249	33.4	23.6	10.1	4.1	5.0	10.9	151	150	-51 -68
250	33.6	32.9	4.1	0.9	11.0	14.1	151	150	+69 -132

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[[no input]]

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Polar Sequence #29  
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Measures of positions of stars in vicinity of No. Pole.  
Sept 17, 1910  
D14703

[[4 columns]]							
x	y	A	B	C	D	A+C B+D C-A B-D	
---	---	---	---	---	---	---	---
251	33.9	35.6	0.9	4.0	14.1	11.0	150 150 +132 -70
252	34.6	45.5	4.9	6.5	10.1	8.6	150 151 +52 -21
253	34.6	42.5	6.0	4.0	9.0	8.0	150 150 +30 -10
254	34.3	39.5	12.0	6.5	3.0	8.5	150 150 -90 -20
330=255	34.5	37.9	7.0	1.0	8.0	14.0	150 150 +10 -130
256	34.6	26.4	6.6	8.9	8.5	6.1	151 150 +19 +28
257	34.6	24.4	6.9	9.5	8.1	5.5	150 150 +12 +40
258	34.4	16.1	8.5	14.0	6.5	1.0	150 150 -20 +130
259	34.1	9.8	13.5	2.0	1.5	13.0	150 150 -120 -110
260	34.5	9.5	7.5	8.0	7.6	7.0	151 150 +01 +10
261	34.8	8.4	2.1	10.1	12.9	4.9	150 150 +108 +52
262	34.4	3.6	9.0	6.5	6.0	8.6	150 151 -30 -21
263	35.9	5.1	0.9	13.9	14.1	1.1	150 150 +132 +128
341=264	35.6	7.1	6.0	14.5	9.0	0.5	150 150 +30 +140
265	35.4	10.4	9.1	8.0	5.9	7.0	150 150 -32 +10
339=266	35.4	12.4	8.5	9.5	6.5	5.5	150 150 -20 +40
267	35.9	14.4	1.1	15.9	13.9	4.1	150 150 +128 +68
268	35.4	16.3	10.5	12.0	4.6	3.0	151 150 -59 +90
269	35.9	16.7	0.5	3.0	14.5	12.0	150 150 +140 -90
270	35.3	22.8	11.0	2.1	4.0	12.9	150 150 -70 -108
271	35.8	24.4	2.0	9.0	13.1	6.0	151 150 +111 +30
45=272	35.3	27.7	12.5	3.0	2.6	12.0	151 150 -99 -90
273	35.6	37.1	6.0	14.5	9.0	0.6	150 151 +30 +139
274	36.4	45.4	9.5	10.0	5.6	5.0	151 150 -39 +50
343=275	36.3	40.6	12.0	4.6	3.1	10.4	151 150 -89 -58
276	36.6	40.3	6.5	13.0	8.6	2.1	151 151 +21 +109
277	36.6	40.4	5.9	10.0	9.1	5.1	150 151 +32 +49
278	36.1	25.5	13.9	7.0	1.1	8.0	150 150 -128 -10

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[[no input]]



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Polar Sequence #29  
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Measures of position of stars in vicinity of No. Pole  
Sept. 20 1910

D14703

[[1 columns]]

x	y	a	B	C	D	a+B	B+D	C-a	B-D

279 | 36.0 | 14.4 | 15.0 | 2.9 | 15.0 | 12.1 | 300 | 150 | ~~[[strikethrough]]~~ -  
150 ~~[[strikethrough]]~~ -150 | -92  
280 | 36.8 | 15.4 | 1.9 | 10.5 | 13.1 | 4.5 | 150 | 150 | +112 | +60  
281 | 36.4 | 11.2 | 11.0 | 13.0 | 4.0 | 2.1 | 150 | 151 | -70 | +109  
282 | 37.1 | 4.8 | 14.0 | 2.5 | 1.0 | 12.6 | 150 | 151 | -130 | -101  
347 = 283 | 37.0 | 6.4 | 15.1 | 8.6 | 15.0 | 6.5 | 301 | 151 | ~~[[strikethrough]]~~  
-01 ~~[[strikethrough]]~~ -150 | +21  
Ft-hazy obj 284 | 37.6 | 8.4 | 4.5 | 11.1 | 10.5 | 3.9 | 150 | 150 | +60 | +72  
Ft-hazy obj 285 | 37.6 | 22.4 | 4.5 | 11.0 | 10.5 | 4.0 | 150 | 150 | +60 |  
+70  
Ft-hazy obj 286 | 37.6 | 22.5 | 6.0 | 6.5 | 9.0 | 8.6 | 150 | 151 | +30 | -21  
287 | 37.1 | 29.3 | 14.5 | 11.9 | 0.5 | 3.2 | 150 | 151 | -140 | +84  
288 | 37.6 | 30.8 | 6.0 | 1.5 | 9.0 | 13.5 | 150 | 150 | +30 | -120  
289 | 37.6 | 40.4 | 6.1 | 9.0 | 9.0 | 6.0 | 151 | 150 | +29 | +30  
290 | 38.8 | 41.8 | 2.0 | 2.5 | 13.0 | 12.6 | 150 | 151 | +110 | -101  
291 | 38.5 | 40.0 | 7.0 | 0.1 | 8.0 | 14.9 | 150 | 150 | +10 | -148  
292 | 38.4 | 23.1 | 9.9 | 14.5 | 5.1 | 0.5 | 150 | 150 | -48 | +140  
293 | 38.2 | 18.4 | 12.6 | 9.0 | 2.5 | 6.0 | 151 | 50 | -101 | +30  
294 | 38.6 | 15.4 | 5.5 | 10.5 | 9.5 | 4.6 | 150 | 151 | +40 | +59  
295 | 38.4 | 13.3 | 8.6 | 12.0 | 6.5 | 3.1 | 151 | 151 | -21 | +89  
368 = 296 | 38.6 | 9.4 | 5.0 | 10.0 | 10.1 | 5.0 | 151 | 150 | +51 | +50  
297 | 39.8 | 7.4 | 2.5 | 10.9 | 12.5 | 4.1 | 150 | 150 | +100 | +68  
298 | 39.9 | 7.9 | 1.0 | 1.0 | 14.0 | 14.0 | 150 | 150 | +130 | -130  
299 | 39.9 | 12.7 | 7.5 | 3.0 | 7.6 | 12.0 | 151 | 150 | +01 | -90  
363 = 300 | 39.6 | 22.1 | 5.5 | 13.1 | 9.5 | 2.0 | 150 | 151 | +40 | +111  
301 | 39.6 | 25.1 | 5.5 | 13.1 | 9.6 | 1.9 | 151 | 150 | +41 | +112  
302 | 39.3 | 30.1 | 12.1 | 14.5 | 3.0 | 0.5 | 151 | 150 | -91 | +140  
362 = 303 | 39.4 | 31.4 | 10.5 | 10.1 | 4.5 | 5.0 | 150 | 151 | -60 | +51  
304 | 39.2 | 34.6 | 12.6 | 5.6 | 2.5 | 9.5 | 151 | 151 | -101 | -39  
305 | 39.1 | 39.3 | 14.5 | 12.0 | 0.5 | 3.0 | 150 | 150 | -140 | +90  
364 = 306 | 39.4 | 40.1 | 3.1 | 13.6 | 12.0 | 1.5 | 151 | 151 | +89 | +121

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Measures of position of stars in vicinity of No. Pole  
Sept 20 1910

Star	x	y	a	B	C	D	a+B	B+D	C-a	B-D
279	36.0	14.4	15.0	2.9	15.0	12.1	300	150	<del>[[strikethrough]]</del>	-
280	36.8	15.4	1.9	10.5	13.1	4.5	150	150	+112	+60
281	36.4	11.2	11.0	13.0	4.0	2.1	150	151	-70	+109
282	37.1	4.8	14.0	2.5	1.0	12.6	150	151	-130	-101
347 = 283	37.0	6.4	15.1	8.6	15.0	6.5	301	151	<del>[[strikethrough]]</del>	
-01	<del>[[strikethrough]]</del>	<del>[[strikethrough]]</del>	<del>[[strikethrough]]</del>	<del>[[strikethrough]]</del>	<del>[[strikethrough]]</del>	<del>[[strikethrough]]</del>	<del>[[strikethrough]]</del>	<del>[[strikethrough]]</del>	<del>[[strikethrough]]</del>	<del>[[strikethrough]]</del>
Ft-hazy obj 284	37.6	8.4	4.5	11.1	10.5	3.9	150	150	+60	+72
Ft-hazy obj 285	37.6	22.4	4.5	11.0	10.5	4.0	150	150	+60	+70
Ft-hazy obj 286	37.6	22.5	6.0	6.5	9.0	8.6	150	151	+30	-21
287	37.1	29.3	14.5	11.9	0.5	3.2	150	151	-140	+84
288	37.6	30.8	6.0	1.5	9.0	13.5	150	150	+30	-120
289	37.6	40.4	6.1	9.0	9.0	6.0	151	150	+29	+30
290	38.8	41.8	2.0	2.5	13.0	12.6	150	151	+110	-101
291	38.5	40.0	7.0	0.1	8.0	14.9	150	150	+10	-148
292	38.4	23.1	9.9	14.5	5.1	0.5	150	150	-48	+140
293	38.2	18.4	12.6	9.0	2.5	6.0	151	50	-101	+30
294	38.6	15.4	5.5	10.5	9.5	4.6	150	151	+40	+59
295	38.4	13.3	8.6	12.0	6.5	3.1	151	151	-21	+89
368 = 296	38.6	9.4	5.0	10.0	10.1	5.0	151	150	+51	+50
297	39.8	7.4	2.5	10.9	12.5	4.1	150	150	+100	+68
298	39.9	7.9	1.0	1.0	14.0	14.0	150	150	+130	-130
299	39.9	12.7	7.5	3.0	7.6	12.0	151	150	+01	-90
363 = 300	39.6	22.1	5.5	13.1	9.5	2.0	150	151	+40	+111
301	39.6	25.1	5.5	13.1	9.6	1.9	151	150	+41	+112
302	39.3	30.1	12.1	14.5	3.0	0.5	151	150	-91	+140
362 = 303	39.4	31.4	10.5	10.1	4.5	5.0	150	151	-60	+51
304	39.2	34.6	12.6	5.6	2.5	9.5	151	151	-101	-39
305	39.1	39.3	14.5	12.0	0.5	3.0	150	150	-140	+90
364 = 306	39.4	40.1	3.1	13.6	12.0	1.5	151	151	+89	+121

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[[no input]]



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Polar Sequence #29  
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Measures of position of stars in vicinity of No. Pole.

Sept 20, 1910

D14703

[[4 columns]]

x	y	A	B	C	D	A+C	B+D	C-A	B-D
---	---	---	---	---	---	---	---	---	---

307	39.5	44.6	7.9	3.9	7.1	11.1	150	150	-08	-72
-----	------	------	-----	-----	-----	------	-----	-----	-----	-----

308	40.6	27.4	6.9	8.0	8.1	7.0	150	150	+12	+10
-----	------	------	-----	-----	-----	-----	-----	-----	-----	-----

365=309	40.1	25.1	13.5	14.6	1.5	0.5	150	151	-120	+141
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[[crossed-out]]

310	40.2	29.6	12.9	6.9	2.1	8.1				
-----	------	------	------	-----	-----	-----	--	--	--	--

311	40.6	15.5	4.5	7.1	10.6	7.9				
-----	------	------	-----	-----	------	-----	--	--	--	--

312	40.1	9.3	13.5	10.9	1.5	4.1				
-----	------	-----	------	------	-----	-----	--	--	--	--

313	41.9	13.1	1.5	13.9	13.5	1.2				
-----	------	------	-----	------	------	-----	--	--	--	--

314	41.7	17.7	2.5	11.5	12.5	3.5				
-----	------	------	-----	------	------	-----	--	--	--	--

315	41.8	21.3	2.5	11.0	12.5	4.0				
-----	------	------	-----	------	------	-----	--	--	--	--

316	41.3	28.8	11.0	1.5	4.0	13.5				
-----	------	------	------	-----	-----	------	--	--	--	--

322[[crossed-out]]

317	41.6	29.9	6.0	1.0	9.0	13.1				
-----	------	------	-----	-----	-----	------	--	--	--	--

318	41.3	31.4	12.1	8.0	3.0	4.0				
-----	------	------	------	-----	-----	-----	--	--	--	--

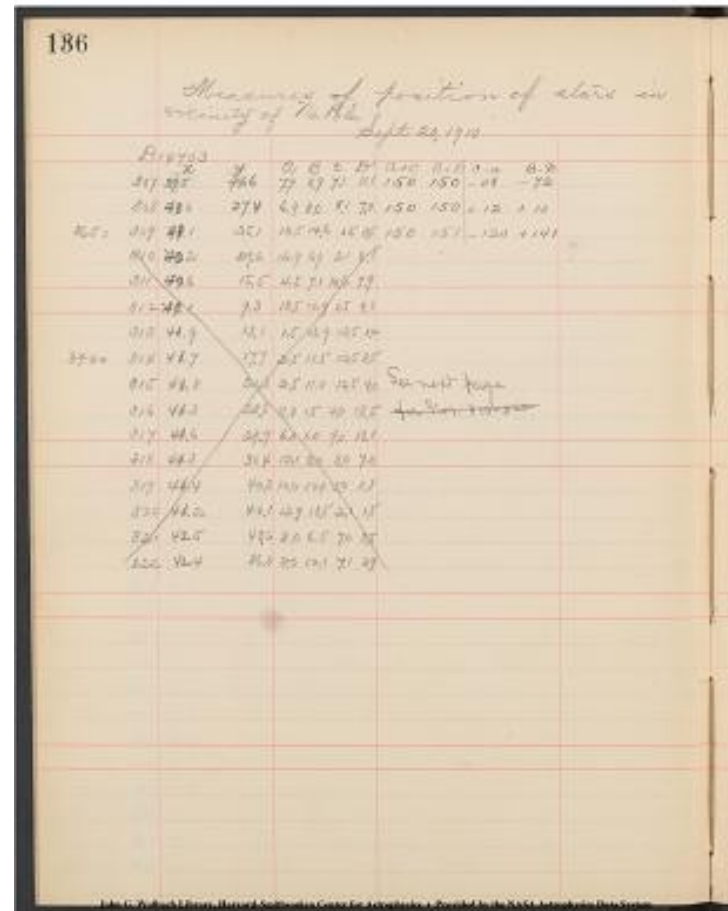
319	41.4	40.3	10.0	12.0	5.0	3.1				
-----	------	------	------	------	-----	-----	--	--	--	--

320	41.2	42.1	12.9	13.5	2.1	1.5				
-----	------	------	------	------	-----	-----	--	--	--	--

321	42.5	43.6	8.0	6.5	7.0	8.5				
-----	------	------	-----	-----	-----	-----	--	--	--	--

322	42.4	36.3	8.0	12.1	7.1	2.9				
-----	------	------	-----	------	-----	-----	--	--	--	--

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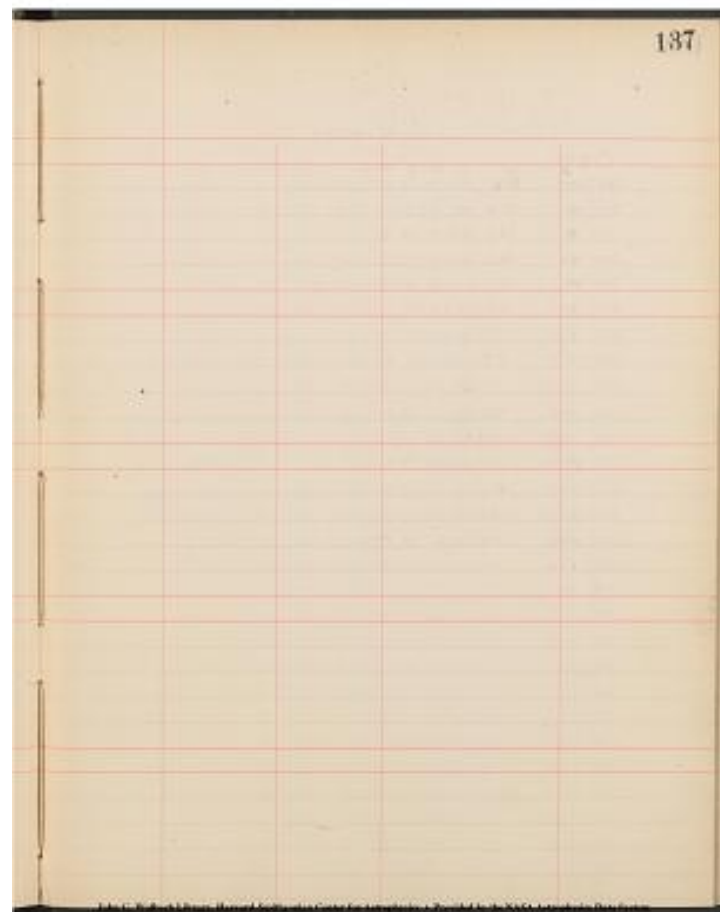


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[[no input]]



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Polar Sequence #29  
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Measures of position of stars in vicinity of No. Pole

Sept 20, 1910

D14703

[[11 Columned table]]

x	y	A	B	C	D	A+C	B+D	C-A	B-D

310	40.2	19.4	13.2	8.0	1.9	7.0	151	150	-11.3	+10
311	40.6	16.2	5.0	13.0	10.0	2.0	150	150	+50	+110
312	40.1	15.9	14.5	1.0	0.5	14.0	150	150	-140	-130
313	40.6	12.3	4.5	12.0	10.5	3.0	150	150	+6.0	+9.0
314	40.4	10.0	9.0	15.0	6.0	15.0	150	300	-30	0
315	40.6	8.6	5.0	6.0	10.0	9.1	150	151	+50	-31
316	40.6	5.1	6.9	14.0	8.1	1.0	150	150	+12	+130
317	41.1	9.4	13.5	10.5	1.5	4.5	150	150	-120	+60
318	41.6	155	4.5	4.0	10.5	8.0	150	150	+60	-10
319	41.2	19.6	13.0	6.5	2.0	8.5	150	150	-110	-20
320	41.6	45.1	4.5	14.0	10.5	1.0	150	150	+60	+130
321	42.2	42.1	13.0	13.0	2.0	2.1	150	151	-110	+109
322	42.4	40.3	10.0	12.0	5.0	30	150	150	-50	+90
323	42.3	31.4	12.1	8.0	2.9	7.0	150	150	-92	+10
324	42.3	30.4	12.0	7.9	3.0	7.2	150	151	-90	-07
325	42.6	29.9	6.0	1.5	9.0	13.6	150	151	+30	-121
326	42.3	28.9	11.0	1.5	40	13.5	150	150	-70	-120
327	42.8	21.3	2.5	11.0	12.5	4.1	150	151	+100	+69
328	42.4	17.3	2.5	11.5	12.6	3.5	151	150	+10.1	+8.0
329	42.9	13.1	1.5	13.9	13.5	1.1	150	150	+120	+128
330	43.1	3.7	14.0	3.0	1.0	12.0	150	150	-130	-90
331	43.7	3.9	3.5	0.9	11.5	14.1	150	150	+80	-132
332	43.1	6.6	14.5	7.0	0.5	8.1	150	151	-140	-11
333	43.0	13.4	15.0	10.0	15.0	5.0	300	150	0	+50
334	43.5	17.4	7.0	10.0	8.0	5.0	150	150	+10	+50
335	43.7	176	3.0	5.5	12.0	9.6	150	151	+90	-41
336	43.9	18.4	1.5	10.0	13.5	5.0	150	150	+120	+50
337	43.4	30.4	9.0	9.1	6.0	6.0	150	151	-30	+31

188										
Measures of position of stars in vicinity of No. Pole										
Sept 20, 1910										
Star	x	y	A	B	C	D	A+C	B+D	C-A	B-D
310	40.2	19.4	13.2	8.0	1.9	7.0	151	150	-11.3	+10
311	40.6	16.2	5.0	13.0	10.0	2.0	150	150	+50	+110
312	40.1	15.9	14.5	1.0	0.5	14.0	150	150	-140	-130
313	40.6	12.3	4.5	12.0	10.5	3.0	150	150	+6.0	+9.0
314	40.4	10.0	9.0	15.0	6.0	15.0	150	300	-30	0
315	40.6	8.6	5.0	6.0	10.0	9.1	150	151	+50	-31
316	40.6	5.1	6.9	14.0	8.1	1.0	150	150	+12	+130
317	41.1	9.4	13.5	10.5	1.5	4.5	150	150	-120	+60
318	41.6	155	4.5	4.0	10.5	8.0	150	150	+60	-10
319	41.2	19.6	13.0	6.5	2.0	8.5	150	150	-110	-20
320	41.6	45.1	4.5	14.0	10.5	1.0	150	150	+60	+130
321	42.2	42.1	13.0	13.0	2.0	2.1	150	151	-110	+109
322	42.4	40.3	10.0	12.0	5.0	30	150	150	-50	+90
323	42.3	31.4	12.1	8.0	2.9	7.0	150	150	-92	+10
324	42.3	30.4	12.0	7.9	3.0	7.2	150	151	-90	-07
325	42.6	29.9	6.0	1.5	9.0	13.6	150	151	+30	-121
326	42.3	28.9	11.0	1.5	40	13.5	150	150	-70	-120
327	42.8	21.3	2.5	11.0	12.5	4.1	150	151	+100	+69
328	42.4	17.3	2.5	11.5	12.6	3.5	151	150	+10.1	+8.0
329	42.9	13.1	1.5	13.9	13.5	1.1	150	150	+120	+128
330	43.1	3.7	14.0	3.0	1.0	12.0	150	150	-130	-90
331	43.7	3.9	3.5	0.9	11.5	14.1	150	150	+80	-132
332	43.1	6.6	14.5	7.0	0.5	8.1	150	151	-140	-11
333	43.0	13.4	15.0	10.0	15.0	5.0	300	150	0	+50
334	43.5	17.4	7.0	10.0	8.0	5.0	150	150	+10	+50
335	43.7	176	3.0	5.5	12.0	9.6	150	151	+90	-41
336	43.9	18.4	1.5	10.0	13.5	5.0	150	150	+120	+50
337	43.4	30.4	9.0	9.1	6.0	6.0	150	151	-30	+31

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[[left margin]] [[In line with 313]] 370=

[[left margin]] [[In line with 328]] 378=

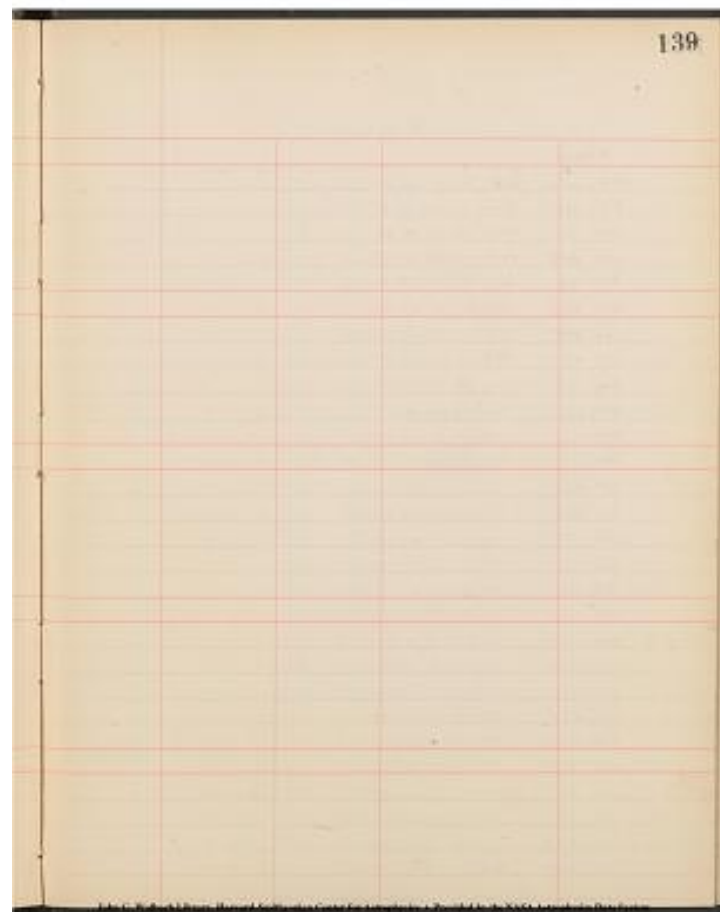
[[left margin]] [[In line with 335]] Defect?

[[left margin]] [[Between numbers 323 and 324]] ?

Project PHaEDRA - Evelyn F. Leland - New Satellite of Saturn and North  
Polar Sequence #29  
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[[no input]]



Project PHaEDRA - Evelyn F. Leland - New Satellite of Saturn and North  
Polar Sequence #29  
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Measures of position of stars in vicinity of No. Pole.

Sept 20, 1910

D14703

[[4 columns]]									
x	y	A	B	C	D	A+C	B+D	C-A	B-D
338	43.2	33.4	13.0	10.0	2.0	5.0	150	150	-110 +50
339	43.5	36.2	8.0	12.5	7.0	2.5	150	150	-10 +100
340	43.5	43.6	8.0	6.5	7.0	8.5	150	150	-10 -20
341	44.6	42.0	6.5	15.0	8.5	15.0	150	300	+20 0
342	44.0	40.9	15.0	1.0	15.0	14.1	300	151	0 -131
343	44.4	39.6	10.1	6.0	4.9	9.0	150	150	-52 -30
344	44.4	38.6	11.0	6.0	4.0	9.0	150	150	-70 -30
345	44.4	36.4	11.0	8.0	4.0	7.0	150	150	-70 +10
346	44.6	21.9	4.9	0.5	10.1	14.6	150	151	+52 -141
386=347	44.6	20.4	4.0	9.6	11.0	5.5	150	151	+70 +41
348	44.6	14.5	6.1	7.0	9.0	8.0	151	150	+29 -10
349	44.1	4.4	13.5	9.0	1.5	6.1	150	151	-120 +29
350	45.8	4.9	2.0	1.1	13.0	13.9	150	150	+110 -128
351	45.3	12.3	12.0	10.5	3.1	4.5	151	150	-89 +60
352	45.7	12.5	3.5	6.1	11.5	8.9	150	150	+80 -28
353	45.3	16.8	11.6	2.0	3.5	13.0	151	150	-81 -110
392=354	45.4	19.4	9.0	8.5	6.0	6.6	150	151	-30 +19
355	45.6	19.5	4.5	7.0	10.6	8.0	151	150	+61 -10
Hazy obj 356	45.6	20.3	5.5	11.9	9.0	3.1	151	150	+41 +88
357	45.4	23.5	11.0	7.0	4.0	8.1	150	151	-70 -11
358	45.0	25.3	15.0	11.0	15.0	4.0	300	150	0 +70
359	45.4	37.1	9.0	13.9	6.0	1.1	150	150	-30 +128
360	45.4	40.2	8.1	12.9	6.9	2.1	150	150	-12 +138
361	45.9	40.6	1.6	6.0	13.5	9.0	151	150	+119 -30
362	45.4	41.3	5.0	11.0	10.0	4.0	150	150	+50 +70
363	45.6	42.0	4.9	14.5	10.1	0.5	150	150	+52 +140
364	45.3	45.3	11.5	12.0	3.5	3.0	150	150	-80 +90
365	45.4	45.5	9.1	8.0	6.0	7.0	151	150	-31 +10

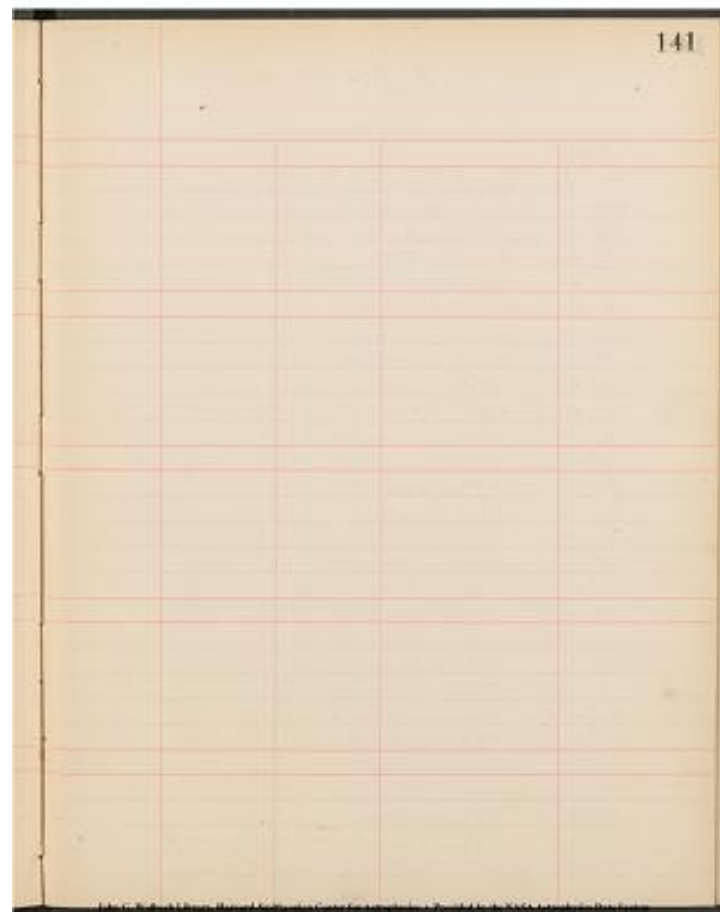
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Measures of position of stars in vicinity of No. Pole									
Sept. 20, 1910									
338	43.2	33.4	13.0	10.0	2.0	5.0	150	150	-110 +50
339	43.5	36.2	8.0	12.5	7.0	2.5	150	150	-10 +100
340	43.5	43.6	8.0	6.5	7.0	8.5	150	150	-10 -20
341	44.6	42.0	6.5	15.0	8.5	15.0	150	300	+20 0
342	44.0	40.9	15.0	1.0	15.0	14.1	300	151	0 -131
343	44.4	39.6	10.1	6.0	4.9	9.0	150	150	-52 -30
344	44.4	38.6	11.0	6.0	4.0	9.0	150	150	-70 -30
345	44.4	36.4	11.0	8.0	4.0	7.0	150	150	-70 +10
346	44.6	21.9	4.9	0.5	10.1	14.6	150	151	+52 -141
386=347	44.6	20.4	4.0	9.6	11.0	5.5	150	151	+70 +41
348	44.6	14.5	6.1	7.0	9.0	8.0	151	150	+29 -10
349	44.1	4.4	13.5	9.0	1.5	6.1	150	151	-120 +29
350	45.8	4.9	2.0	1.1	13.0	13.9	150	150	+110 -128
351	45.3	12.3	12.0	10.5	3.1	4.5	151	150	-89 +60
352	45.7	12.5	3.5	6.1	11.5	8.9	150	150	+80 -28
353	45.3	16.8	11.6	2.0	3.5	13.0	151	150	-81 -110
392=354	45.4	19.4	9.0	8.5	6.0	6.6	150	151	-30 +19
355	45.6	19.5	4.5	7.0	10.6	8.0	151	150	+61 -10
Hazy obj 356	45.6	20.3	5.5	11.9	9.0	3.1	151	150	+41 +88
357	45.4	23.5	11.0	7.0	4.0	8.1	150	151	-70 -11
358	45.0	25.3	15.0	11.0	15.0	4.0	300	150	0 +70
359	45.4	37.1	9.0	13.9	6.0	1.1	150	150	-30 +128
360	45.4	40.2	8.1	12.9	6.9	2.1	150	150	-12 +138
361	45.9	40.6	1.6	6.0	13.5	9.0	151	150	+119 -30
362	45.4	41.3	5.0	11.0	10.0	4.0	150	150	+50 +70
363	45.6	42.0	4.9	14.5	10.1	0.5	150	150	+52 +140
364	45.3	45.3	11.5	12.0	3.5	3.0	150	150	-80 +90
365	45.4	45.5	9.1	8.0	6.0	7.0	151	150	-31 +10

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Polar Sequence #29  
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[[no input]]



Project PHaEDRA - Evelyn F. Leland - New Satellite of Saturn and North  
Polar Sequence #29  
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Measures of position of stars in vicinity of No. Pole  
 Sept 22, 1910  
 D14703

[[4 columns]]							
x	y	A	B	C	D		
366	46.6	46.9	6.5	1.5	8.5	13.6	150 151
367	46.8	45.4	2.0	9.0	13.0	6.0	150 150
368	46.8	37.9	1.9	1.0	13.1	14.0	150 150
369	46.8	34.4	2.1	9.5	12.9	5.6	150 151
370	46.6	32.4	3.5	10.5	11.5	4.5	150 150
371	46.3	28.1	12.0	14.0	3.0	1.1	150 151
372	46.8	26.4	1.9	10.5	13.2	4.6	151 151
373	46.4	19.4	3.0	9.5	12.0	5.5	150 150
374	46.8	19.9	2.1	1.0	13.0	14.1	151 151
Hazy obj-375 47.6 18.7 6.0 2.5 9.0 12.6 150 151							
376	48.5	34.6	8.0	4.5	7.0	10.6	150 151
377	48.4	27.5	11.0	6.6	4.0	8.5	150 151
378	48.4	25.3	11.0	11.9	4.0	3.1	150 150
379	49.8	11.8	1.5	2.0	13.6	13.0	151 150
380	49.1	14.6	14.0	6.1	1.0	9.0	150 151
381	49.4	19.2	9.5	13.0	5.5	2.1	150 151
382	49.5	20.4	8.5	10.1	6.6	4.9	151 150
383	49.2	22.1	12.9	14.0	2.1	1.0	150 150
384	49.4	35.2	9.0	12.6	6.0	2.5	150 151
385	49.6	40.6	6.5	4.5	8.6	10.6	151 151
386	50.3	46.6	12.5	5.0	2.5	10.0	150 150
387	50.4	45.4	10.1	11.0	4.9	4.0	150 150
388	50.6	38.4	4.1	11.0	10.9	4.0	150 150
389	50.0	33.1	15.0	13.5	15.0	1.5	300 150
390	50.4	24.2	9.9	12.9	5.1	2.1	150 150
391	26.8	41.3	2.0	11.0	13.0	4.0	
392	26.4	39.1	9.1	13.5	6.0	1.5	
35=393 26.4 35.5 9.5 4.5 5.5 7.6 150 151 -40 -01							

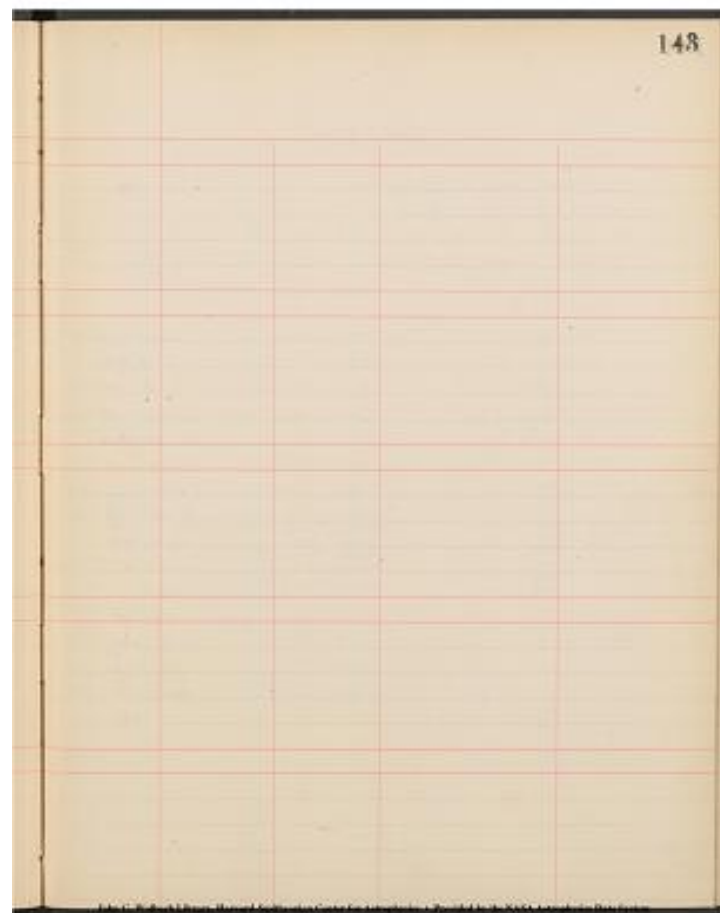
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Measures of position of stars in vicinity of No. Pole							
Sept 22, 1910							
D14703							
[[4 columns]]							
x	y	A	B	C	D		
366	46.6	46.9	6.5	1.5	8.5	13.6	150 151
367	46.8	45.4	2.0	9.0	13.0	6.0	150 150
368	46.8	37.9	1.9	1.0	13.1	14.0	150 150
369	46.8	34.4	2.1	9.5	12.9	5.6	150 151
370	46.6	32.4	3.5	10.5	11.5	4.5	150 150
371	46.3	28.1	12.0	14.0	3.0	1.1	150 151
372	46.8	26.4	1.9	10.5	13.2	4.6	151 151
373	46.4	19.4	3.0	9.5	12.0	5.5	150 150
374	46.8	19.9	2.1	1.0	13.0	14.1	151 151
Hazy obj-375 47.6 18.7 6.0 2.5 9.0 12.6 150 151							
376	48.5	34.6	8.0	4.5	7.0	10.6	150 151
377	48.4	27.5	11.0	6.6	4.0	8.5	150 151
378	48.4	25.3	11.0	11.9	4.0	3.1	150 150
379	49.8	11.8	1.5	2.0	13.6	13.0	151 150
380	49.1	14.6	14.0	6.1	1.0	9.0	150 151
381	49.4	19.2	9.5	13.0	5.5	2.1	150 151
382	49.5	20.4	8.5	10.1	6.6	4.9	151 150
383	49.2	22.1	12.9	14.0	2.1	1.0	150 150
384	49.4	35.2	9.0	12.6	6.0	2.5	150 151
385	49.6	40.6	6.5	4.5	8.6	10.6	151 151
386	50.3	46.6	12.5	5.0	2.5	10.0	150 150
387	50.4	45.4	10.1	11.0	4.9	4.0	150 150
388	50.6	38.4	4.1	11.0	10.9	4.0	150 150
389	50.0	33.1	15.0	13.5	15.0	1.5	300 150
390	50.4	24.2	9.9	12.9	5.1	2.1	150 150
391	26.8	41.3	2.0	11.0	13.0	4.0	
392	26.4	39.1	9.1	13.5	6.0	1.5	
35=393 26.4 35.5 9.5 4.5 5.5 7.6 150 151 -40 -01							

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 Polar Sequence #29  
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[[no input]]



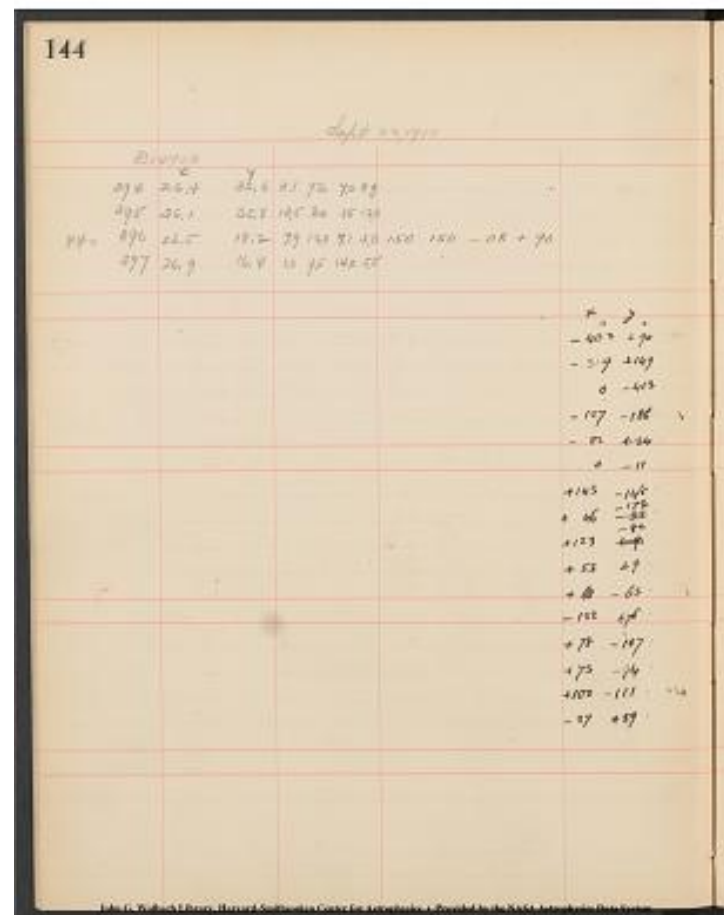
Project PHaEDRA - Evelyn F. Leland - New Satellite of Saturn and North  
Polar Sequence #29  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:40:10



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 Sept 22, 1910  
 D14703  
 [[4 column table]]  
X	Y

|394 | 26.4 | 32.6 | 8.1 42 4.0 8.9 |  
 |395 | 26.1 | 25.8 | 13.5 30 1.5 12.0 |  
 |44= 396 | 26.5 | 18.2 | 7.9 12.0 7.1 3.0 | 150 150 -08 +90  
 |397 | 26.9 | 16.4 | 1.0 9.5 14.0 5.5 |

[[2 column table]]  
 X | Y  
 -40^[[2]] | +90  
 -319 | +149  
 0 | -463  
 -127 | -186  
 -22 | +24  
 0 | -11  
 +143 | -148  
 +46 | ~~82~~ -178  
 +123 | ~~82~~  
 +53 | +9  
 +68 | -63  
 -122 | +76  
 +78 | -107  
 +73 | -94  
 +100 | -111  
 -27 | +59



Project PHaEDRA - Evelyn F. Leland - New Satellite of Saturn and North Polar Sequence #29  
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July 18, 1911  
Faint Stars in The North Polar Sequence  
Marked in red on D.14703

| x | y |  
~~28~~ 6.6 ~~13.6~~ 4.5 ~~17.8~~  
~~29~~ 5.8 12.5  
~~33~~ | |

| | X | Y | 25.4 ~~13.6~~ 25.2 ~~27.3~~ 48y | 23.3 ~~17.8~~ -23.3 ~~27.3~~ |  
48y | ~~28~~ 30 | 10.5 | 20.0 | -14.9 | -402.3 | -  
403.9 | -33 | +89.1 | +89.8 | 189  
109 | 29 | 13.6 | 17.8 | -11.8 | -318.6 | -319.2 | -5.5 | +148.5 | +149.3 | 212  
179 | 46 | 33 | 25.4 | 38.6 | -0.0 | -0.0 | +15.3 | -413.1  
151 | 34 | 20.7 | 30.2 | -4.7 | -126.9 | +6.9 | -186.3  
174 | 49 | 35 | 24.6 | 22.4 | -0.8 | -21.6 | -0.9 | +24.3  
184 | 50 | 36 | 25.4 | 23.7 | -0.0 | 00 | +0.4 | -10.8  
222 | 37 | 30.7 | 28.8 | +5.3 | +143.1 | +5.5 | -148.5  
193 | 52 | 38 | 27.1 | 29.9 | +1.7 | +45.9 | +6.6 | -178.2  
215 | 39 | 30 ~~29.9~~ | 26.3 ~~26.4~~ | +4.6 ~~4.5~~ | 124.2 ~~121.5~~ |  
+3.0 ~~3.1~~ | -81.0 ~~83.7~~  
189 | 40 | 27.3 ~~4.1~~ | 23.0 ~~22.9~~ | +19 ~~20~~ | 51.3 ~~54.0~~ | -0.3  
~~0.4~~ | +8.1 ~~10.8~~  
191 | 41 | 27.9 | 25.7 ~~25.6~~ | +2.5 | +67.5 | +24 ~~23~~ | -64.8 ~~62.1~~ |  
156 | 42 | 20.9 | 20.5 | -4.5 | -121.5 | -123.1 | -8.8 | +75.6 |  
~~81.1~~ ~~259~~  
205 | 43 | 28.3 | 24.2 ~~27.3~~ | -2.9 | +78.3 | +3.9 ~~4.0~~ | -105.3 ~~105.0~~ |  
206 | 44 | 28.1 | 26.8 | -27 | +72.9 | +3.5 | -94.5  
216 | 45 | 29.1 | 27.4 | -37 | +99.9 | +4.1 | -110.7  
| | ? 46 | 24.4 | 21.1 | -10 | -27.0 | -2.2 | +59.4

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July 18, 1911

Faint Stars in The North Polar Sequence

Marked in red on D.14703

	X	Y	Z	U	V	W	X	Y	Z	U	V	W
1	28	6.6	13.6	4.5	17.8	10.5	20.0	-14.9	-402.3	-403.9	-33	+89.1
109	29	13.6	17.8	-11.8	-318.6	-319.2	-5.5	+148.5	+149.3	212		
179	46	33	25.4	38.6	-0.0	-0.0	+15.3	-413.1				
151	34	20.7	30.2	-4.7	-126.9	+6.9	-186.3					
174	49	35	24.6	22.4	-0.8	-21.6	-0.9	+24.3				
184	50	36	25.4	23.7	-0.0	00	+0.4	-10.8				
222	37	30.7	28.8	+5.3	+143.1	+5.5	-148.5					
193	52	38	27.1	29.9	+1.7	+45.9	+6.6	-178.2				
215	39	30	26.3	26.4	+4.6	124.2	121.5					
189	40	27.3	23.0	22.9	+19	51.3	54.0	-0.3				
191	41	27.9	25.7	25.6	+2.5	+67.5	+24	62.1				
156	42	20.9	20.5	-4.5	-121.5	-123.1	-8.8	+75.6				
205	43	28.3	24.2	27.3	-2.9	+78.3	+3.9	4.0	-105.3			
206	44	28.1	26.8	-27	+72.9	+3.5	-94.5					
216	45	29.1	27.4	-37	+99.9	+4.1	-110.7					
	46	24.4	21.1	-10	-27.0	-2.2	+59.4					

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146  
 July 18, 1911  
 Faint Stars in list of Supplementary Stars near  
 North Pole  
 Plate D 14703  
 $x|y|[[\text{symbol-checkmark}]]x|[[\text{symbol-checkmark}]]|[[\text{symbol-checkmark}]]|y|[[\text{symbol-checkmark}]]|x|$   
 $y$   
 114| |20.5|33.0|-4.9|-132.3|+9.7|-261.9|[[\text{symbol-checkmark}]]-  
 131|[[\text{symbol-checkmark}]]|[[\text{symbol-checkmark}]]-262|[[\text{symbol-checkmark}]]-131|-262  
 [[\text{symbol-checkmark}]]  
 128|[[\text{symbol-checkmark}]]11s|20.6|33.0|-48 |-1296|+9.7|-261.9|[[\text{symbol-checkmark}]]  
 136|[[\text{symbol-checkmark}]]17s|[[\text{symbol-checkmark}]]18.2|[[\text{symbol-checkmark}]]21.3|[[\text{symbol-checkmark}]]  
 |33.9|[[\text{symbol-checkmark}]]26.5|-72 -41|-194.4 -110.7|+10.6 +3.2|-286.2 -  
 86.4|[[\text{symbol-checkmark}]]+11|[[\text{symbol-checkmark}]]|[[\text{symbol-checkmark}]]-  
 286|[[\text{symbol-checkmark}]]-194|-286|[[\text{symbol-checkmark}]]  
 160|[[\text{symbol-checkmark}]]18s|21.2 19.8|26.4 33.6|-42|-113.4|+3.1|-  
 83.7|[[\text{symbol-checkmark}]]+3|[[\text{symbol-checkmark}]]|[[\text{symbol-checkmark}]]-  
 85|[[\text{symbol-checkmark}]]-112|-85|[[\text{symbol-checkmark}]]

146

July 18, 1911  
 Faint Stars in list of Supplementary Stars near  
 North Pole  
 Plate D 14703

114	20.5	33.0	-4.9	-132.3	+9.7	-261.9	[[\text{symbol-checkmark}]]
131	[[\text{symbol-checkmark}]]	[[\text{symbol-checkmark}]]	[[\text{symbol-checkmark}]]	[[\text{symbol-checkmark}]]	[[\text{symbol-checkmark}]]	[[\text{symbol-checkmark}]]	[[\text{symbol-checkmark}]]
128	[[\text{symbol-checkmark}]]	11s	20.6	33.0	-48	-1296	+9.7 -261.9 [[\text{symbol-checkmark}]]
136	[[\text{symbol-checkmark}]]	17s	[[\text{symbol-checkmark}]]	18.2	[[\text{symbol-checkmark}]]	21.3	[[\text{symbol-checkmark}]]
133.9	[[\text{symbol-checkmark}]]	26.5	-72	-41	-194.4	-110.7	+10.6 +3.2 -286.2 -
86.4	[[\text{symbol-checkmark}]]	+11	[[\text{symbol-checkmark}]]	[[\text{symbol-checkmark}]]	[[\text{symbol-checkmark}]]	[[\text{symbol-checkmark}]]	[[\text{symbol-checkmark}]]
286	[[\text{symbol-checkmark}]]	-194	-286	[[\text{symbol-checkmark}]]	[[\text{symbol-checkmark}]]	[[\text{symbol-checkmark}]]	[[\text{symbol-checkmark}]]
160	[[\text{symbol-checkmark}]]	18s	21.2	19.8	26.4	33.6	-42 -113.4 +3.1 -
83.7	[[\text{symbol-checkmark}]]	+3	[[\text{symbol-checkmark}]]	[[\text{symbol-checkmark}]]	[[\text{symbol-checkmark}]]	[[\text{symbol-checkmark}]]	[[\text{symbol-checkmark}]]
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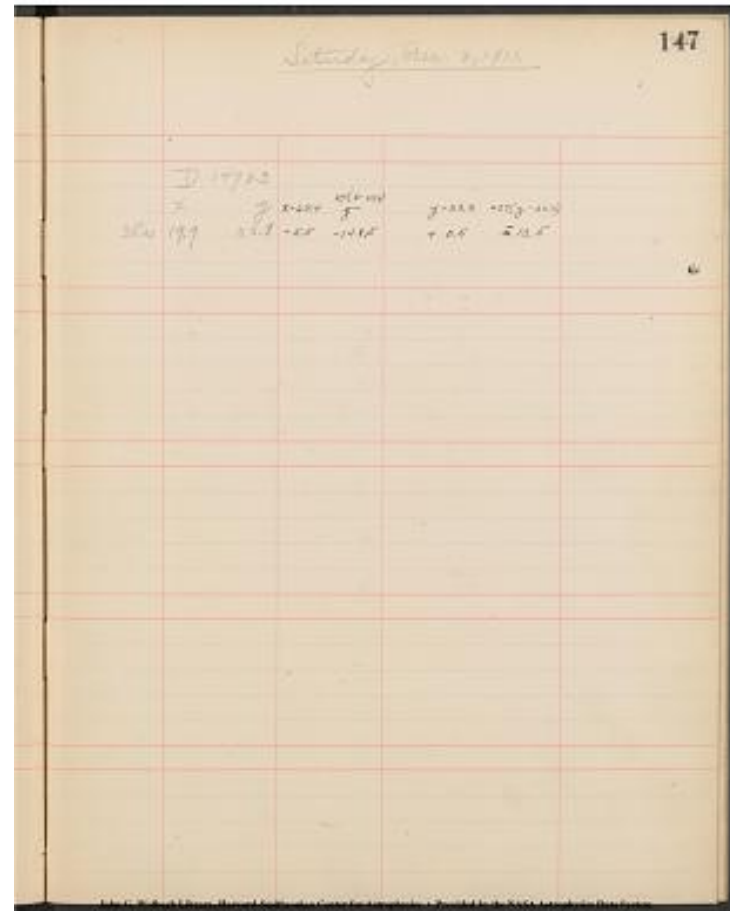
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147

Saturday, Dec. 2, 1911

D14703

x y x-25.4 27(x-25.4)/y y-23.3 -27(y-23.3)  
38N 19.9 23.8-5.5 -14.85 +0.5 ~~1~~  
~~13.5~~

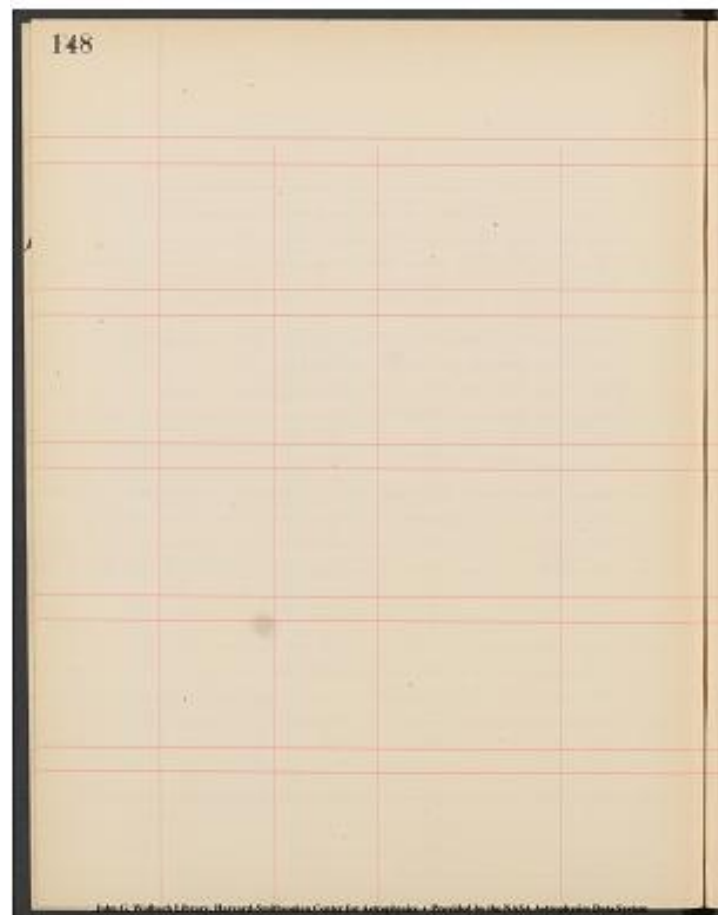


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148

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John G. Wolbach Harvard-Smithsonian Center for Astrophysics.  
Provided by NASA Astrophysics Data System



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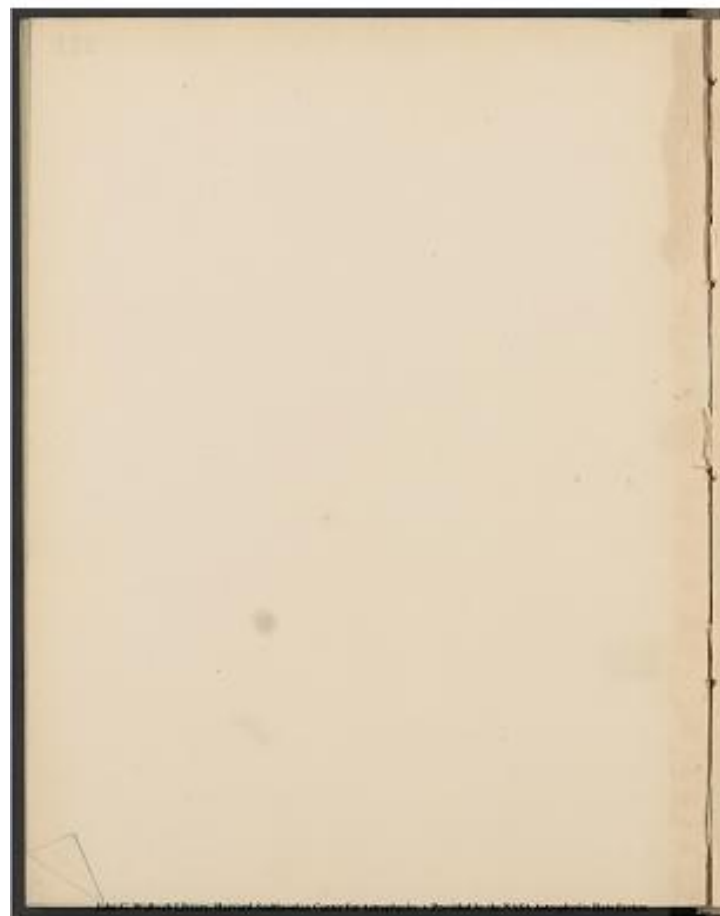
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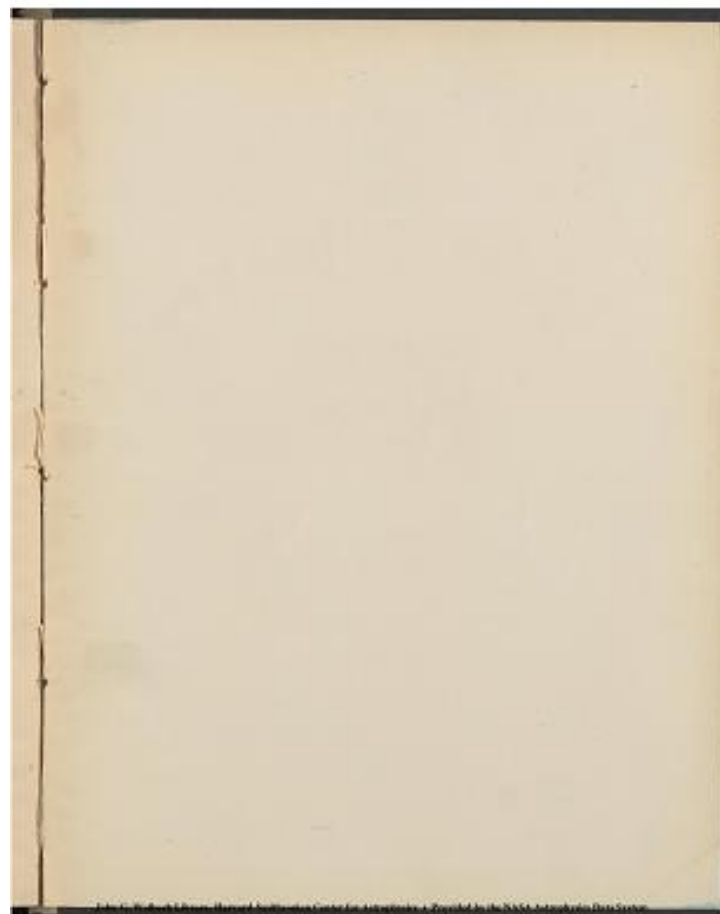
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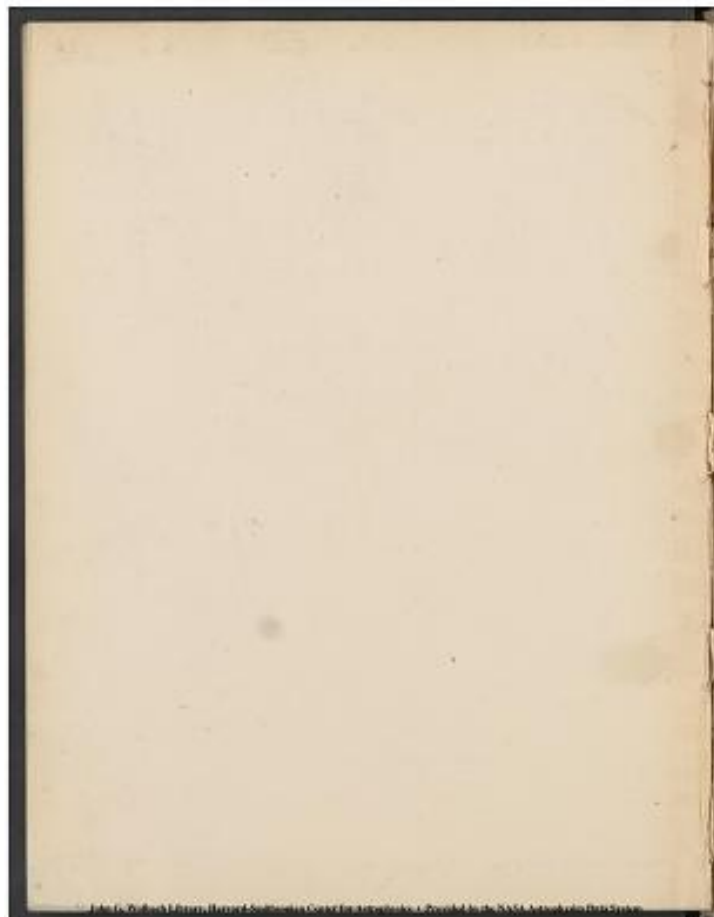
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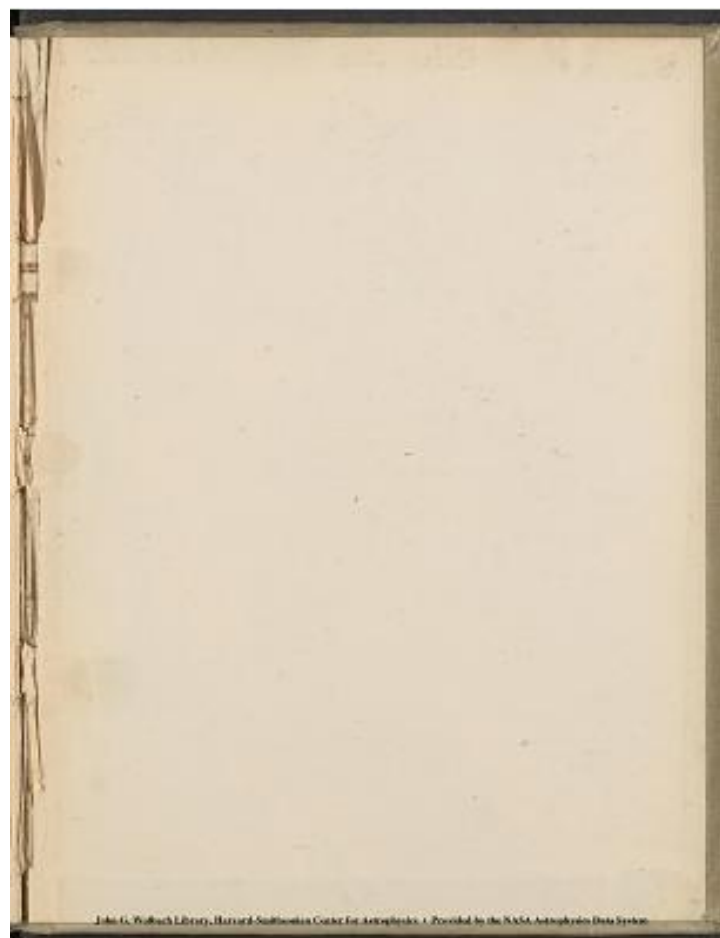


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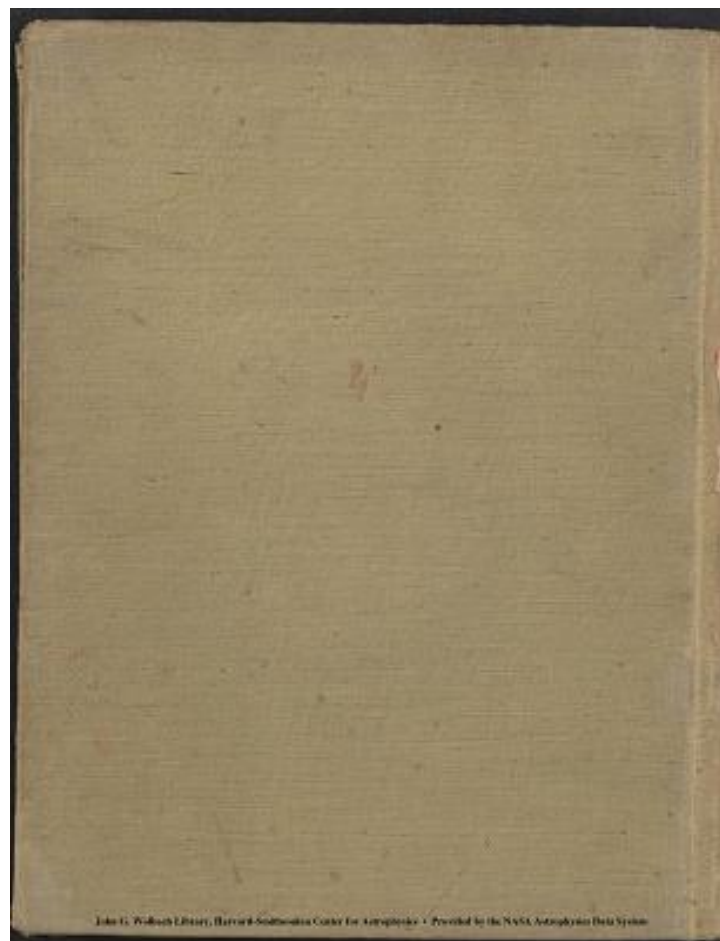
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## Smithsonian Institution

*Harvard-Smithsonian Center for Astrophysics*

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