KG
11365
550

KG 11365.550

KG-11365,558

HARVARD
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MAY 8 1956

Oct 4, 1901 (Friday)

B & C 182 Ballou 103
7 06 58.2 7 02 05

73.1901 Scuti W Obs
18 51 -13.0
20 16
1 25

Plotted.
Ledgered.

Above
359.1 < comp x dis.
7 27 30 60.2 61.1
174.9 72.1
247.0 133.2 + 0.93

354.1 + 0.86
30 30 66.6 72.5
176.9 66.2
243.1 138.7 + 0.80
Below
Mean = + 0.87
272.1
33 18 332.9 60.8
84.6 73.2
157.8 134.0 + 0.90

+ 0.88
264.2
7 37 22 336.5 72.3
12 8 40 89.8 62.8
7 32 10 152.6 135.1 + 0.87
5 - 4 58
12 27 12 Gr. M. Time

5662.5189
5662.4480
+ 0.0709

Oct. 4, 1901.

II

Below
271.0
7 44 00 333.7 62.7
83.8 74.3
158.1 137.0 + 0.83

265.2 +0.85
46 40 337.7 72.5
90.2 63.0
153.2 135.5 +0.87

Above Mean = +0.78
IV
176.0
5050 244.6 68.6
352.0 75.7
67.7 144.3 + 0.69

169.9 +0.70
7 52 50 244.9 75.0
19 34 20 35 6.9 68.7
7 48 35 65.6 143.7 + 0.70
5 – 4 58
12 43 37 Gr. M. T.
5662.5303
5662.4480
+ 0.0823

Oct 4, 1901

~~III~~

Above

174.6
8 03 45 247.9 — 73.3
351.5 — 79.8
71.3 — 153.1 + 0.51

169.1 — +0.52
07 15 251.0 — 81.9
354.5 — 71.0
~~66.0~~ — 152.9 +0.52
66.5

Below — Mean = +0.63
88.0
10 35 154.7 — 66.7
264.2 — 74.9
339.1 — 141.6 + 0.74

83.0 — +0.74
8 13 55 158.7 — 75.7
35 30 269.0 — 66.4
8 08 52 335.4 — 142.1 + 0.73
5 - 4 58
13 03 54 Gr m T.
5662.5443 ×
5662.4480
+0.0963

Oct 4, 1901

IV

Below

86.6

8 20 30 155.6 69.0

264.2 74.3

338.5 143.3 +0.71

82.9 +0.68

23 30 160.4 77.5

267.6 68.6

336.2 146.1 +0.65

Below Mean = +0.55

354.2

26 30 67.3 73.1

167.9 85.3

253.2 158.4 +0.41

+0.42

~~35~~ 348.3

8 29 30 71.3 83.0

20 00 173.8 74.6

8 25 00 ×248.24 157.6 +0.43

5 - 4 58

13 20 02 Dr. M.

5662.5556×

5662.4480

+0.1076

Oct 4, 1901

V

Above
354.4
8 39 ~~2~~ 68.6 74.2
166.5 86.8
253.3 161.0 +0.36

+0.34
348.3
44 02 71.5 83.2
170.2 79.6
249.8 162.8 +0.33

Below Mean = +0.46
264.6
50 24 336.9 72.3
82.3 79.0
16~~4~~.3 151.3 +0.55

2646
+0.57
8 53 43 341.9 80.3
~~97~~ 77 86.7 68.7
155.4 149.0 +0.59

8 7 37
8 46 5[illegible]
5 – 4 58
13 41 06 Gr. M. T.
5662.5633
5662.4480
+0.1153

Oct. 4, 1901

VI

Below
266.5
9 00 48 337.7 71.2
82.6 80.1
162.7 151.3 +0.55

260.7 +0.55
04 48 339.8 79.1
86.2 72.0
158.2 151.1 +0.55

Above Mean = +0.42
169.7
10 28 250.4 80.7
347.0 85.8
72.8 166.5 +0.25

1~~7~~66.7 +0.28
9 13 06 252.8 86.1
29 10 351.4 77.2
9 07 18 68.6 163.3 +0.32
5 - 4 58
14 02 20 Gr. M. Time -
5662.5849
5662.4480
+0.1369

Oct. 4, 1901.

VII

above
172.2
9 20 48 251.4　　79.2
346.5　　85.8
72.3　　165.0 +0.29
+0.27

166.2
25 14 256.0　　89.8
352.3　　76.7
69.0　　166.5 +0.25
Below　　mean = +0.40
86.4
31 48 156.0　　69.6
259.4　　82.8
342.2　　152.4 +0.53

+0.53

82.3
9 33 58 161.3　　79.0
11 31 48 265.6　　73.2
9 27 57 338.8　　152.2 +0.53
5 4 58
14 22 59 Gr M.T.
5662.5993*
5662.4480
+0.1513

Oct 4, 1901.

VIII

Below

~~87.~~ 86.8

9 37 24 157.9 71.1

260.8 81.5

342.3 152.6 + 0.52

82.0 + 0.54

42 24 162.4 80.4

265.8 70.4

336.2 150.8 + 0.56

Above mean = + 0.42

349.7

45 38 69.8 80.1

167.4 85.8

259.2 165.9 + 0.27

346.2 + 0.28

9 48 12 72.0 85.8

17.3 38 72.0 78.3

9 43 26 250.3 ~~163.8~~ + 0.30

5 - 4 58 164.1

gr Wt.

14 38 26 Hour Ang = 4:06

5662.6100 Decl = -12.6

5662.0480 Sid Time = 22:53

+ 0.1620 + Pos Ang = 279.5 per B,

Spr. Wheel = 5.5 B & 6.6 C

Oct 4, 1901.

R Pegasi w Obs.

23 3 +9.0
23 13
0 10

1023 final u 2 (y), (y) 1 w (final)

S Pegasi. w Obs.

23 12 +7.1
23 27
0 15

1031 final t 2.5 (α), (α) 1 u

R Arietis w Obs

2 6 8 +24.3
23 38
2 30
9 30

1040 final t 1 (x) (x) ~~4.5~~ 5 u final

1042 final t 4.5 (y), (y) 1.5 u final

comp ✱, u prec. C.S. l by 10 secs
& is 0.9 S″ ✱ of it.

Comp ✱ r prec. comp ✱ r by 0.5 sec
& is 4.6′ S of it.

Oct 4, 1901

R Ceti wObs.

2 15 - 1.6

0 00

2 15

9 45

11 08 fierial 0 2 (x), (x) 4 p

R S, Tauri wObs

~~4~~ 16 + 9.1

~~78~~ 4

0 16

4 00

8 00

11 14 Too cloudy

o Ceti

2 12 - 3 6

0 20

1 52

10 08

11 23 Cld's

Oct 4, 1901

o Ceti w Ob

Photow Led. Plott.

R.

310.1 < randi 1/2 w.

11 27.0 342.1 32.0
128.0 34.0
162.0 66.0 — 2.64

307.7 — 2.60
342.4 34.7
128.0 34.1
162.1 68.8 — 2.55

Left mean = — 2.58

218.6
252.3 33.7
38.2 33.5
71.7 67.2 — 2.60

216.7 — 255
1134.0 252.8 36.1
61.0 37.6 dds 36.0
1130.5 71.6 70.1 — 2.50
5 — 5.0
1625.5 dds
5662.684

Oct 4, 1901

Same Again

Ode
Left
~~219.5~~
11 40.0 ~~25.2~~
~~37.5~~

Meas made through clouds; reject above 3 setts
Setts taken 1/2 weight

Hour Ang — 1:29
Right Decl — 3.6
11 45 — Sid Time 0:46
Pos Ang = 66.2 B

Posted to here

Oct 5, 1901 (Saturday)

Ball 103 B&C 1182
6 49 00 6 54 01.0

7d 1901 Sante
Phot T. 18 51 -13.0 Wllbz
~~19 56~~
20 06
1 15

Ledgered.

above
353.2 < comp + dis
7 1222 65.7 72.5
170.2 80.3
250.5 152.8 + 0.52
+0.54

351.2
15 40 ~~8~~70.8 79.6
176.0 71.6
247.6 151.2 +0.55
Below mean = +0.59
265.9
2008 335.6 69.7
83.2 77.4
160.6 147.1 + 0.63

261.0 +0.64
7 23 10 339.0 78.0
7/3 1 20 86.4 68.9
7 17 50 155.3 146.9 +0.64
5 - 5 1
1~~2~~ 12 49 Gr. M.T. 5663.5089
5663.4020
0.1069

Oct. 5, 1901

II

Below

87.9

7 29 34 157.5 69.6

260.7 80.8

341.5 150.4 + 0.57 ✓

~~81.0~~

81.0 +0.58 ✓

32 16 161.1 80.1 ✓

267.0 69.4 ✓

336.4 149.5 ✓ + 0.58 ✓

Above Mean = +0.47 ✓

353.0

36 40 67.0 74.0 ✓

167.0 87.4

254.4 161.4 ✓ + 0.35 ✓

348.2 + 0.36 ✓

7 40 40 71.2 83.0

171.8 77.1

139 10

7 34 48 258.9 160.1 ✓ + 0.36 ✓

5 5 1

12 29 47 G.M.T.

5663.5207

5663.4020

0.1187

Oct. 5, 1901.

III

Above
3540
7 4445 67.4 73.4
167.2 87.8
255.0 161.2 +0.36

348.4
+0.34
4815 73.4 85.0
171.6 78.0
249.6 163.0 +0.32

Mean = +0.45

Below
265.8
5400 337.4 71.6
81.3 80.0
161.8 151.6 +0.54

260.4 +0.56
7 5620 340.8 80.4
20320 86.3 70.1
75050 156.4 150.5 +0.57
5- 8 1
12 05 49 Gr. M.T.
5663.5318
5663.4020
0.1298

Oct. 5, 1901.

IV

Below

265.5

8 02 02 336.7 71.2

79.7 81.6

161.3 152.8 +0.52

261.4 +0.52

04 09 341.0 79.6

85.6 73.0

158.6 152.6 +0.52

Above Mean = + 0.39

172.3

07 38 252.4 80.1

347.3 86.9

74.2 167.0 +0.25

16~~5~~61 +0.26

8 10 01 254.5 88.4

23 50 351.2 77.6

8 05 58 68.8 166.0 +0.27

5 - 5 1

13 00 57 G. M. T.

5663.5424

5663.4020

0.1404

Oct 5, 1901

V

Above

172.5
8 13 45 250.8 — 78.3
346.3 — 85.0
71.3 — 163.3 + 0.32

166.5 — +0.32
15 45 253.4 — 86.9
351.3 — 75.6
66.9 — 162.5 +0.33

Below — mean = +0.42
87.2
18 26 157.6 — 70.4
260.2 — 82.3
342.5 — 152.7 +0.52

+0.52

82.0 — 80.2
8 20 54 162.2 — 72.3
6 8 50 264.6 — 152.5 +0.53
8 17 12 336.9
5 – 5 1

13 12 11 Gr. M. Time.
5663.5501
5663.4020

+0.1481

Oct 5, 1901

VI

Below

85.3

8 25 39 157.4 72.1

259.6 80.7

340.3 152.8 +0.52

81.2 +0.51

28 10 161.5 80.3

264.0 73.5

33~~0~~.5 153.8 +0.50

Above Mean = +0.40

351.6

~~32~~ 00 70.1 78.5

166.7 87.7

254.4 166.2 + 0.26

347.0

~~334.~~ +0.28

8 35 40 74.2 87.2

121 29 172.2 77.6

8 30 22 249.8 164.8 +0.29

5 - 5 1

13 25 21 × yd M.T. Poz Ang 279.4 Ver B

56663.5593 Hour Ang +2! 57

56644.4020 Dec - 12.6

+0.1573 S.T. 21, ~~40~~ 45

Spi. Wheel = 3.5B.866C

Oct. 5, 1901

Phot T. DM + 42° 3338
19 20 + 43.0 W. Ob.
21 48
2 28

I

Above

Ledgerd.

99.2 < van dis
8 58 20 141.7 42.5
278.7 46.1
324.8 88.6 — .195

96.0
8 59 42 144.8 48.8 — .194
281.4 40.3
321.7 89.1 — .194

Below Mean = — .190

122
9 02 20 54.4 42.2
185.4 49.8
235.2 92.0 — .186

5.3
9 04 00 57.1 51.8 — .185
.422 191.4 40.8
9 01 06 232.2 92.6 — .184
5 5 1

13 56 05 Gr. M. Time.
5663.5807
5663.0574
+ 0.5233

Oct. 5, 1901

II

Below
9.4
9 07 55 51.9 42.5 ✓
186.5 50.6 ✓
237.1 93.1 ✓ — 1.83 ✓

1.88 ✓
5.2
09 25 55.0 49.8 ✓
191.4 39.4 ✓
230.8 89.2 ✓ — 1.94 ✓

Above
Mean = −2.03 ✓
288.0
12 40 320.1 38.1 ✓
100.3 43.5
143.8 81.6 ✓ — 2.15 ✓

−2.18
279.4
9 14 25 322.1 42.7 ✓
44 25 103.0 36.8 ✓
9 11 06 139.8 79.5 ✓ — 2.21
5 −5 1
14 06 05 Gr. M. Time
5663.5876
5663.0574
0.5302

Oct. 5, 1901

~~III~~

Above
283.0
9 16 00 320.3 — 37.3 ✓
100.4 — 41.2 ✓
141.6 — 78.5 ✓ — 2.26 ✓

279.9 — 2.22 ✓
17 45 321.4 — 41.5 ✓
102.3 — 38.7 ✓
141.0 — 80.2 ✓ — 2.19 ✓

Below — Mean = — 21.2 ✓
192.5
20 00 232.6 — 40.1
7.4 — 48.0
55.4 — 88.1 — 1.96 ✓

188.1 — 2.02 ✓
9 21 45 234.0 — 45.9 ✓
7 5 30 12.5 — 38.4 ✓
9 18 52* 50.9 — 84.3 ✓ — 2.07
5=5 1
14 13 51 Gr. M. T. ~~Hour Angle~~
5663.5930*
5663.0574
~~0.5356~~
0.5356*

Oct, 5, 1901.

IV

Below

190.1

9 27 26 232.7 42.6

10.7 42.3

53.0 84.9 — 2.05

189.8 — 2.10

29 34 233.3 43.5

11.8 37.7

49.5 81.2 — 2.16

Above Mean = 2.24

102.1

32 40 138.6 36.5

282.9 39.2

322.1 75.7 — 2.32

100.8 — 2.37

9 34 55 140.0 39.2

12 4 35 284.0 33.6

9 31 09 317.6 72.8 — 2.42

5 — 5 1

14 26 08 G. M. T.

5663.6015

5663.0574

0.5441

Oct. 5, 1901

V

Above

104.1
9 36 55 138.1 34.0 ✓
282.2 ✓ 40.0 ✓
322.2 74.0 ✓ − 2.38 ✓
− 2.36 ✓

100.9
38 25 141.7 40.8 ✓
285.2 34.1 ✓
319.3 74.9 ✓ − 2.35 ✓

Below Mean = 2.23 ✓

11.9
40 27 49.6 37.7 ✓
187.6 45.4 ✓
233.0 83.1 ✓ − 2.10 ✓

7.8 − 2.10 ✓
9 41 57 53.8 46.0 ✓
15 7 44 192.4 37.7 ✓
9 39 51 220.1 83.7 ✓ − 2.09 ✓
5-5 1
14 34 50 Gr. M. T. Hour Angle = + 3 32
5663.6075 Sid. Time = 22.~~62~~ 52
5663.0574 Pos. Ang. = 214.3 Ver B
+ 0.5501 Decl. = + 42.8
S'pa. Wheel = 4.53 & 5.4 C

Oct 5, 1901

R Ceti 20 Ob.
26 18 − 0.2
23 10
3 08
8 52

10 15 final o 2.5 (x) (x) 4 final p.

R Tauri 20 Ob.
28 16 + 9.1
23 30
4 46
7 14

10 32 s 2.5 $\overset{\text{tauri}}{\underline{\underline{R}}}$, $\overset{\text{tauri}}{\underline{\underline{R}}}$ 1.5 t

10:41 final m 4 (k) (k) 1 n

10 47 final s 2 ($\underline{n}$) ($\underline{n}$) 2.5 t final

10 50 final s 3 (o) (o) 1.5 t final

10 53 final u 1 (p) (p) 4 final w
~~final w 3 (a), (a) 1.5 final x~~
final u 4 (a) (a) 1 final w
final w 1 (b) (b) 3 final x

Oct 5, 1901.

b prec var R Tau 20 secs & 7.2 N of it.

a prec var R Tau 5 secs & 11.3 N of it.

x prec var (R Tau) 19 secs & 0.4 N of it.

final w 2.5 (x) (x) 1.5 final x

Phot w o Ceti w Obs

2 12 - 3.6

Right 0 37 Ledgerd

39.3 1 35

11 38.0 72.2 trans dis 10 25 32.9

218.8 33.3

252.1 66.2 - 2.64

38.6

71.4 32.8 - 2.66

218.6 32.2

250.8 65.0 - .268

Left mean = - 2.59

306.8

339.8 33.0

126.0 36.6

162.6 69.6 - 2.52

305.8

11 46.0 340.5 34.7 - 2.54

11 42.0 125.4 33.3

5 - 5.0 158.7 68.0 - 2.57

16 37.0 Gr. M. T. 5663.692

Oct 5, 1901

Same Again.

Left

305.6

11 47.8 338.4 32.8

124.9 35.1

160.0 67.9 -2.58

-2.57

304.4

339.9 35.5

124.6 33.0

157.6 68.5 -2.56

Mean = -2.60

Right

215.8

248.5 clds 32.7

34.7 34.2

68.9 66.9 -2.61

215.2 clds.

-2.63

11 55.8 248.0 32.8

103.2 35.4 32.9

11 51.6x 68.3 65.7 -2.65

5 -5.0 Pos Ang 344.5 Ver B

16 46.6x Gr. M. T. Hour Ang = -1.9

5663.699x Sid Time 1:05

Decl -3.6

12 00

Final Mean = -2.60x

C.S.I = 9.19

Magn = 6.59

Posted.

Oct, 6, 1901. (Sunday)

BΦC 1182	Ballou 103
21 14 42.0	21 09 00

Oct. 7, 1901 (Monday)

B8 01182 Ball. 103.

7 10 49.0 7 05 00

Phot. T. η Cephei w Ob.

24 50 +81.1

20 30

4 20

7 40

Ledgered

Above

173.2 < vardia

7 30 10 248.7 75.5

345.4 91.8

~~77.2~~ 167.3 − 0.24

167.2

32 00 257.4 90.2 −0.26

353.6 74.4

680 164.6 − 0.29

Below mean = − 0.29

85.7

34 30 157.2 71.5

256.2 88.4

344.6 157.9 − 0.38

76.0 − 0.32

7 36 34 168.3 92.3

13 14 264.6 73.7

7 33 18 338.3 166.0 − 0.27

5 − 5 49

1227 29 Gr. M. Time

5665.5191

5665.3618

+0.1573

Oct 7, 1901.

II

Below

84.0
7 40 08 157.9   73.9
254.3   91.1
345.4   165.0   * -0.29

7~~6~~5.5   * -0.26
41~~4~~21 167.6   92.1
262.8   75.4
338.2   167.5   * -0.24

Above   Mean = -0.14

353.6
4340 70.8   77.2
16~~1~~2.2   96.2
258.4   173.4   -0.13

3~~4~~1.3   -0.01
7 45 30 82.2   100.9
10 52 170.0   85.2
7 42 43 255.2   186.1   + 0.11
5 05 49   173.9

12 36 54 G. M. Time -
5665.5256*
5665.3618
+0.1638

Oct. 7, 1901

III

Above
348.5
7 47 28 72.0 83.5
158.0 104.3
262.3 187.8 +0.15
172.2

339.0
49 12 80.7 101.7 +0.16
169.0 87.6
256.6 189.3
170.6 +0.18

Below
261.4 Mean +0.04
51 40 341.9 80.5
70.4 89.5
~~160~~ 170.3 170.0 -0.19

-0.08

253.5
7 53 30 349.8 96.3
~~42~~ 77.3 84.5
201 50 161.8 180.8
7 50 28 179.2 +0.02
5 - 5 49
12 44 39 Gr. M. Time.
5665.5310
5665.3618
~~82~~
+0.1692

Oct. 7, 1901

IV

Below
258.7 ✓
75551 342.6 839
69.5 1013 ✓
170.8 185.2 ✓ +0.10 ✓
174.8 ✓

250.4 +0.10 ✓
5830 351.2 1008
78.3 849
163.2 1857 +011 ✓
1743

Above mean = +0.24 ✓
167.4
80018 258.2 908 ✓
337.9 1053
83.2 196.1 ✓ + 0.30 ✓
1639 ✓

156.1 +0.38 ✓

802 162 266.1 110.0
4236 55 344.9 93.9 ✓
8 59 14 ~~7~~ 2039 ✓ +0.45 ✓
5 -5 49 78.8 156.1 ✓
12 53 25 Gr. M. T.
5665.5371 ×
5665.3618 ×
0.1753 ✓

Oct. 7, 1901

V

Above

163.8

8 05 10 259.8 96.0

335.8 111.7

87.5 207.7

152.3 + 0.53

156.4

07 ~~15~~ 24 267.3 110.9 + 0.62

343.2 103.2

78.4 216.1

143.9 + 0.70

Below mean = + 0.56

73.5

09 56 169.3 95.8

246.2 110.1

356.3 205.9

158.1 + 0.50

65.8

8 12 08 174.3 108.5 + 0.50

34 38 259.2 97.2

8 08 40 350.4 205.7

5 - 5 49 154.3 + 0.49

13 02 51 Gr, M.T.

5665.5437

5665.3618

+0.1819

Oct 7, 1901

VI

above
73.6
8 14 05 169.4 93.8
246.5 110.8
357.3 206.6
153.4 +0.57

66.6
15 40 176.3 109.7 +0.52
252.4 98.0
~~344.~~ 207.7
350.4 152.3 +0.53
Below Mean = +0.61
338.4
18 15 82.2 103.8
153.1 108.2
271.3 212.0 +0.61
148.0

334.3 114.8 +0.70
8 20 36 89.1 107.1
68 36 157.7 221.9 + 979
8 17 09 264.8 138.1
5-549 Hour Angle = -3.08 East
13 11 20 Gr. M. Time - Sid Time = 21.45
5665.5495 Decl = +81.3
5665.3618 Po Ang. = 14.1 B
0.1877 Sp. Wheel = 6.573875 C

Oct. 7, 1901

73.1901 Scuti 2w Obs.

Phot T. 18 51 — 13.0
21 55
Above 3 04

I
Ledgard

348.9 < comp. star obs
8 54 24 72.8 83.9
165.4 89.8
255.2 173.7 + 0.14

344.7 + 0.16
57 02 72.8 88.1
168.1 82.2
240.3 170.3 + 0.18

Below Mean = + 0.30
265.2
9 00 24 339.2 74.0
79.8 82.2
162.0 156.2 + 0.45

260.4 + 0.44
9 03 ~~00~~ 10 344.1 83.7
8~~48~~5 74.3
235 00 158.8 158.0 + 0.42
8 58 45
5 - 5 49

13 52 56 G. M. T.
5665.578~~7~~4
5665.310 0
0.268 4

Oct. 7. 1901

~~II~~

Below
263.8
9 07 26 337.6 73.8 ✓
78.3 85.5 ✓
163.8 159.3 ✓ + 0.39 ✓

+ 0.42 ✓

259.6
10 15 342.5 82.9 ✓
84.9 73.3 ✓
158.2 156.2 ✓ + 0.45 ✓

Above Mean = + 0.35 ✓
170.3
14 21 252.0 81.7 ✓
347.2 86.1
73.3 167.8 ✓ + 0.23 ✓

169.4 + 0.28 ✓
9 17 14 252.2 82.8 ✓
9 16 350.2 80.0 ✓
9 12 19 70.1 162.8 ✓ + 0.33 ✓
5 - 5 49
14 6 30 Gr. M. Time
5665.5878
5665.3100
+0.2778

Oct. 7, 1901.

III

Above

170.0 ✓
9 23 30 251.~~4~~6 81.6 ✓
346.2 87.9 ✓
74.1 169.5 ✓ + 0.20 ✓

166.7 ✓
27 25 254.7 88.0 ✓ + 0.21
~~352.0~~ 349.5 80.3 ✓ ✓
69.8 168.3 ✓ + 0.22

Below Mean = + 0.30 ✓

84.3 ✓
31 30 159.8 75.5 ✓
260.0 83.8 ✓
343.8 159.3 ✓ + 0. 39 ✓

+ 0.38 ✓

79.1
9 34 05 162.2 83.1 ✓
116 30 263.5 77.6 ✓ + 0.37 ✓
9 29 08 341.1 160.7 ✓
5 5 49
14 23 19 Gr M.T. Hour Ang 4:04
5665.5995 S'id time = 22:52
5665.3100 Pos Ang 99.4 Ver B.
+0.2895 Decl = -13.6
S/n Wheel = 5.5 B & 6.1 C

Oct 7, 1901.

Region of Scuto Vm. rather low ~~teles~~cope object glass near top of lowest small shutter at end of last group. stars somewhat unsteady and dim but all possible care exercised.

R Scuti w Ob
26 18 −0.2
23 08
3 10
8 50

10 03 final o 2 (x), (x) 4 p final

R.S. Tauri w Ob.
28 16 +9.1
23 16
5 00
7 00

10 12 final m 3 (k), (k) 1 final n
10 17 " s 2.5 (n), (n) 3 " t
10 19 " s 2.5 (o), (o) 3 " t
10 24 " u 1.5 (p) (p) 3 " w
10 28 " u 3 (a), (a) 1 " w
10 30 " ~~w~~ 1.5 (b), (b) 3 " x
10 33 " w 3 (x), (x) 1 " x

Oct 7, 1901

R Leo. Min. w Obs.

33~~9~~ 40 + 35.0

23 50

9 50

2 10

Too low

R Ceti w Obs

26 18 -0.2

23 52

2 26

9 34

10 54 2 1.5 var var 3 s

S Aquarii w Obs.

22 50 -21.1

24 20

1 30

11 17 B 2.5 var, var 0.5 f

Phot T. χ Cygni, w Obs

19 45 +32.6 9.5 cap.

24 35

4 50

see next page

Oct. 7, 1901

χ Cygni

Ledgered.

Above
0.8
11 27.7 55.4 48.6
183.4 56.3
239.7 104.9 — 1.54

1.8 — 1.52
59.2 57.4
187.2 49.7
236.9 107.1 — 1.49

Below Mean = — 1.63
277.5
323.3 45.8
96.0 51.3
147.3 97.1 — 1.73

273.7 — 1.74
11 36.3 325.1 51.4
64.0 98.4 44.9
11 32.0 143.3 96.3 — 1.75
5 — 5.8
16 26.2 Gr. M. T.
5666.685

Ledgered;
Plotted;
Posted to here

Oct. 7, 1901

Planet Again

Below

277.4
11 39.0 323.2 45.8
96.4 51.7
~~15~~ 148.1 97.5 - 1.72

273.8
327.0 53.2 - 1.72
~~10~~ 99.0 44.3
143.3 97.5 - 1.72

Above Mean - -1.58
187.4
238.2 50.8
1.0 57.1
58.1 107.9 - 1.47

182.9 - 1.44
11 46.4 241.2 58.3
85.4 ~~4~~4.2 52.0
11 42.7 56.2 110.3 - 1.41
5 - 5.8 Mean = -1.60
16 36.9 Gr. M.T. Hour ang. +5 17
5665.692 Sp. Wheel 4.5a & 55 - [illegible]
Sid time 1:04
Decl. +32.6
11 55 Pos. Ang. 237 VerB

Oct. 8, 1901 (Tuesday)

Reset B&C 1182

B&C 1182 Ballou 103
~~103~~
7 00 48.1 → 7 01 00
7 01 48.0 7 02 0.0

Reap. Jup I Phot R W Obs.
Campbell Rec.
Comp. with Sat. on fol. side = Sat III
Limit of Visibility

7 24 59	7 25	11	16.0	217.0
25 12		24	~~17.5~~	233.0
26	7 25 19	38	18.3	215.5
38		50	17.2	233.8
27 10	27 ~~17~~	32		seen
31		43	25.5	212.5
39		51	23.0	238.0
45		57	29.0	215.0
52	28 ~~8~~	04	41.0	245.0
58		10	42.2	203.0
28 4		16	45.2	247.2
10		22	50.0	202.0
16		28	54.0	252.0
22		34	57.5	198.0
28		40	59.3	255.5

Oct 8, 1901

7 28 34	7 28 46	62.9	196.2	
41	53	63.0	259.1	
48	29 00	62.9	196.1	
55	07	66.1	259.0	
29 01	13	69.2	192.9	
08	20	73.0	262.1	
15	27	73.4	189.1	
22	34	71.4	262.5	
	~~40~~		~~193~~	
36	48	73.4	191.1	
43	55	78.4	264.5	
	30 08	moved images slightly in field.		
30 04	16	80.8	186.1	
13	25	81.6	266.9	
23	35	79.8	185.3	
7 30 31	43		265.1 →	
	58		187.0	
7 31 12	31 07	78.8	265.8	1
−12	16	81.1	184.7	
7 31 00	28	80.0	265.8	
	40		186.5	
31 56	51	78.9	265.4	2
12	32 02	79.8	185.5	
31 44	11	79.4	265.3	
	19		185.0	
32 37	30	80.6	265.6	
12		79.3		
32 25		80.0		

Oct. 8, 1901

	7	32	~~44~~		186.0	3
			54		265.8	
		33	04		185.1	
7 33 23			~~16~~		~~26~~	
− 12						
7 33 15			16	80.9 77.8	266.0	4
			31	79.4	187.0	
			41		264.8	
			49		186.8	
34 09		34	01	79.0	265.8	5
12			19	77.9	186.9	
33 57			28	78.4	264.8	
			38		187.0	
34 52 12			47	78.9	265.9	6
34 40			56	79.5	186.2	
		35	06	79.2	265.7	
			13		186.8	
35 28			22	80.5	267.3	7
12			31	81.1	185.9	
35 16			44	80.8	267.0	
		36	~~4~~00		185.8	
36 14			12	80.2	266.0	8
12			19	78.8	187.0	
36 02			27	79.5	265.8	

Seeing a little blurry but fairly good. Jup. somewhat low but sky pretty clear here.

Oct. 8. 1901.

B & C 1182 Ballou 183

7 43 48.5 7 44 0.0

7 44 48.5 7 45 0.0

Phot 73.1901 Starts 20 Obs.

18 51 −13.0

21 11

2 20

7 55 clouds

above

5.6 < comp * dis.

7 59 08 54.2

~~184.0~~

~~237.7~~

~~4.3~~

8 03 24 ~~57.2~~ wrong star so reject.

~~187.7~~

~~234.2~~

Below

Oct. 8, 1901

73.1901 δ Scuti

I

Above

350.1 < comp. * dis

8 08 30 71.8 81.7

168.0 88.0

256.0 169.7 +0.20

347.0 +0.24

10 57 70.9 83.9

169.4 82.0

251.4 165.9 +0.27

Below clds thicker mean = +0.36

264.8

14 50 339.7 stars faint. 74.9

80.4 81.5

161.9 156.4 +0.45

261.6 +0.48

8 17 23 343.6 82.0

5 1 40 84.5 72.0

8 12 55 156.5 154.0 +0.50

5 + 0 12 G.M. Time

13 13 07 * Above group 1/2 weight.

5666.5508 Observations made through some

5666.2640 cloud: stars faint part of the time

+0.2868 but much care exercised.

Oct. 8, 1901.

II

Below

~~263.2~~

8 20 42 ~~339.3~~

~~+78.6~~

~~163.6~~

~~259.3~~

23 18 ~~342.9~~

~~83.5~~

~~158.6~~

clds again

Above Mean =

169.3 stars gone

~~26 50~~ 2 . clds thicker

~~3~~ 17 . clds Reject above ½ group

~~impossible to complete it~~

Stopped by clouds

Pos Ang 279.0 Ver B

Hour Ang 3 : 16

Decl. - 12 8

Sid Time 22 : 04

~~Pos~~

Spr Whel = 5.5B + 6.5C

~~Impossible to do anything further~~

tonight on this ~~star.~~

Oct. 8, 1901.

Phot T. d Serpentis W Obs.

18 22 +0.1

22 22 6 in cap.

4 00

~~Right~~

~~193.6 <vardis~~

9 09.4 ~~231.3~~ ~~37.7~~

~~8.9~~ ~~41.1~~

~~50.0~~ ~~78.8~~ –

~~191.1~~ –

~~232.5~~ ~~41.4~~

~~11.4~~ ~~37.3~~

~~48.7~~ ~~78.7~~ –

~~Left~~ mean = –

~~48~~

104.3

Stopped by clds. reject

R.S. Tauri W Obs

28 16 +9.1

22 46

5 30

6 30

9 40 find is 2 (n), (n) 2 final +

9 44 " s 3 (o) (o) 1 final +

9 48 " m 1.5 (k), (k) 3 " w

9 50 " " 3.5 (a), (a) 1 " w

Oct. 8, 1901

R Tauri Cont.

9 55 final w 1.5 (t), (t) 3.5 final x

9 57 " w 3 (x) (x) 1 " x

R Arietis w Ob.

2 6 8 +24.6

2 3 3 2

2 3 6

9 2 4

10 20 n 1.5 var, var 2.5 o

R Aquarii w Ob.

23 36 −15.8

23 50

0 1 4

10 32 Sky pretty cloudy

10 48 ~~m~~ n 1 var, var 3 0

V Cygni w Ob.

20 38 +47.8

24 15

3 37

20 43 +47.2

24 23

3 40

11 15 t 3 var, var 0.5 u

Ledgered
~~Plotted~~
Posted.

Oct 8, 1901.

Phot w o Ceti w Ob.

2 12 - 36
0 42

1 30
10 30

11 25 clds: abandoned for tonight.

~~Oct. 8, 1901~~

~~Saturn Again~~

Oct 9, 1901 (Wednesday)

BOC 182	Ballou 103
21 10 23.6	21 10 00

Oct 10, 1901 (Thursday)

B & C 1182 Ballou 123

7 01 23.0 7 01 00

02 23.0 02 00

Phot T. 73.1901 Scuti w Ob

18 51 −130

20 38

1 47

Above

351.9 comp + dis

7 18 58 68.8 76.9 ✓

166.2 88.0 ✓

254.2 164.9 ✓ + 0.29 ✓

348.5 + 0.30 ✓

21 25 74.0 85.5 ✓

171.9 77.8 ✓

249.7 163.3 ✓ + 032 ✓

Below mean = + 0.36 ✓

264.2

24 02 339.0 74.8 ✓

79.7 84.3 ✓

164.0 159.1 + 0.40 ✓

260.3 + 0.41 ✓

7 27 35 343.8 83.5 ✓

92 00 84.4 74.7 ✓

7 23 00 159.1 158.2 + 042 ✓

5 − 0 23

12 22 37 Gr. M. Time.

5668.51577

5668.1720

0.3437

Oct. 10, 1901.

II

Below

264.3

73000 338.9 — 74.6

78.8 — 86.9

164.7 — 161.5 + 0.35

+0.38

259.2

32 20 342.2 — 83.0

84.0 — 75.1

159.1 — 158.1 + 0.42

Mean = + 0.35

Above

172.2

35 35 249.4 — 77.2

348.1 — 85.2

73.3 — 162.4 + 0.33

168.2

7 38 24 254.4 — 86.2 — +0.32

7 34 05 352.2 — 76.9

5 - 0 23 69.1 — 163.1 + 0.32

12 33 42 Gr. M.T.

5668.5234 Pos Ang. 279.6 Var B

5668.1720 Hour Ang + 2: 34

0.3351 Decl -12.6 5.5 B

S.T. 21.23 6.6 C

Oct 10, 1901

8 05 Clouds rather thick

Σ 2308 wClb

Phot W 18 9 +80.0
21 39
3 30

8 15 clouds thick

8 22 Sky very cloudy

Pos ang 260 Dist 21" magn. 5.4 - 6.1

8 40 Clds stars gone

204.2 Above + Left

8 42.0 279.0 to dis 74.8
19.5 84.3
109.8 159.1 - 0.40
197.2
283.7 86.5 - 0.36
21.8 76.3
98.1 162.8 - 0.32 B

Below + Right Mean = - 0.35
115.6
187.8 72.2
284.8 91.0 A
158 163.2 - 0.32
105.2 - 0.34
8 50.0 196.1 90.9
70.6
294.9
365.5 161.5 - 0.35

9 2 0
8 4 6 0
5 -23
13 45 37

Oct 10, 1901

9 00 cloudy

~~μ Cygni. Σ 2822~~

ε Sagittae 20 clk.

Phot 20 19 33 +16.2

9 15 - Clouds 22 37

3 04

~~Lo~~ above P.s. Aug 70° Dist 93″.5 Magn .47 7.7

48.7 < bc dis

9 23.6 78.5 29.8

~~222~~.6 clds 39.6

261.8 cldsthick 69.4 - 2.53

42.8 - 2.54

80.0 37.2

225.0 31.3

256.3 68.5 - 2.56

~~RO~~ Below

~~8~~. cldsthick mean = - 2.60

316.6

344.8 28.2

131.7 36.8

168.5 65.0 - 2.68

311.5

9 33.6 347.3 35.8 - 2.66

134.2 30.6

164.8 66.4 - 2.63

Oct. 10, 1901

Same Again

Below
315.5
9 42.6 ~~348.4~~ 347.8 32.3
133.6 31.2
164.8 63.5 - 2.73
clouds
312.9 - 2.66
345.6 32.7
132.8 34.7
167.5 67.4 - 2.59

Above Mean = 2.70
224.6
256.1 31.5
44.7 31.7
76.4 63.2 - 2.74

222.5 - 2.74
9 51.4 255.5 33.0
9 40 447 30.0
9 47.0 747 63.0 - 2.75
5 - 0.4
14 46.6 Gr. M. Time
5668.

Troubled by clouds in both of above groups but sky a little clearer in last group.

Oct 10, 1901

R Ms min 20 Obs.

Phot T. 16 34 +72.9
23 44
7 10

10 14 clouds thick
10 36 clouds
Above
89.5 ⟨comp ✱ dis
10 41.4 153.0 63.5
262.7 78.1
340.8 141.6 +
81.2
~~157.4~~ ~~76.2~~
~~269.4~~ ~~64.8~~
~~334.2~~ ~~141.0 +~~
~~Below~~ ~~mean = +~~
356.4
66.4 70.0
172.7
25

clouds came again impossible to finish group.

10 55

Ledgered

Plotted

Posted -

Oct 11, 1901 (Friday)

B&C 1182 Ballon 105

7 04 30.1 7 04 05

Phot T. 73. 1901 Scuto W Ok

18 51 −13.0

20 43

1 52

I

above

172.3 comp * dia

7 21 55 249.7 77.4

347.4 84.8

72.2 162.2 + 0.34

167.8 +0.32

24 35 256.3 88.5

351.8 75.6

67.4 164.1 + 0.30

Below Mean = +0.42

86.5

28 10 156.7 70.2

260.8 80.3

~~339~~ 150.5 + 0.57

341.1

81.1 +0.52

7 31 50 162.0 80.9

26 30 265.8 74.2

7 26 38 340.0 155.1 +0.48

5 0 30

12 26 08 Gr. M. T.

5669.5182

5669.126

0.3922

Oct. 11, 1901.

II

Below

84.8

7 35 50 158.1 — 73.3

260.3 — 81.4

341.7 — 154.7 + 0.48

82.3 — + 0.48

38 20 161.2 — 78.9

265.1 — 76.2

339.3 — 155.1 + 0.48

above — Mean = +0.41

352.7

42 27 780.5 — 77.8

165.0 — 86.7

251.7 — 163.7 + 0.33

+0.34

349.0

7 45 03 70.5 — 81.5

1 40 171.5 — 80.3

7 40 25 251.8 — 161.8 +0.35

5 - 0 30

12 39 55 Gr. m. Time.

5669.5277

5669.1260

+0.4017

Pos. Ang. 279.7 Ver B.

Hour Ang. +2:52

Sid. Time 21:38

Decl. = −12.6

Sp. Wheel − 5.5 B & 6.6 C

Oct. 11, 1901

R Delphini W Ob.

20 10 +8.5

21 53

1 43

8 28 r 3 var, var 1.5 s

~~X~~ 73.1901 Scuti, assumed W Ob.

Phot ~~I~~ 18 51 -13.0

22 05

above 3 14 ~~III~~

~~171.3~~

8 41 30 ~~249.4~~

348.8 Reject, impossible to carry on observations on this variable: region low: much

8 50 fog; stars varying in brightness abandoned.

S Coronae ~~F.G.~~ W Ob.

15 17 +30.8

22 27

7 10 Too low

R Herculis W Ob.

15 55 +18.2

22 32

6 37

9 03 fog thick here no stars visible

Oct 11, 1901.

Phot W. Σ 59′ W Obs.

22 59 −8.2

22 42

0 17

10 43

Abandoned

Phot T. W Delphini W Obs.

20 33 +17.9

22 43

2 10

9 20 fog pretty thick var invisible.

9 22 clouds thick everywhere.
Abandoned too much cloud &

9 27 fog

Phot Σ 55′ W Obs.

21 19 +36.8

23 09

1 50

9 36 Fog & clouds thick everywhere.

9 55 No chance for anything farther
clouds & fog thick everywhere

Ledgered. Plotted - Posted.

Oct. 15, 1901 (tuesday)

Ballou 103 B & C 1182

7 00 00 7 01 ~~24.0~~ 2

R Ophiuchi 2 w Obs.

7 26 t 1.5 var 34

Region low, obs. difficult.

Peak jup ~~III~~ Phot R W Obs

Campbell Rec.

Comp. with other sat on same following side = Sat ~~IV~~

Limit of Visibility

	7 35	55		213.0	
7 36 14	36	08	43.1	256.1	
-1 24		19	41.0	214.1	
7 ~~1~~ 34 50		33	42.0	255.1	+2.1
7 44 40	7 46	05		[illegible]	
52		17	71.0	201.0	+0.7
45 08		33	73.0	272.8	+0.7
18		43	83.0	199.0	+0.3
28	+	53	92.0	282.0	-0.1
37	47	02	97.1	190.0	-0.3
49		14	96.3	287.1	-0.2
46 02		27	99.1	190.8	-0.3
14		39	101.9	289.9	-0.5
		~~51~~			
31		56	103.0	188.0	-0.5
42	48	07	107.5	291.0	-0.7

Oct. 15, 1901.

7 46 48	7 48	13	110.5	183.5	−0.8
47 03		28	108.0	294.0	−0.7
15		40	107.5	186.0	−0.7
28		53	108.6	293.5	−0.7
3 49	49	04	102.3	184.9	−0.5
59		24	100.3	287.2	−0.4
48 09	"	34	100.9	186.9	−0.4
19		44		287.8	
		~~55~~		187.9	
50 25	50	09	103.0	290.9	
1 25		25		~~183.0~~	
49 00		32	111.5	181.5	
		44	107.2	293.0	−0.7
		56		182.4	
51 15	51	07	110.7	293.1	
1 25		24	115.9	180.0	
49 50		33	113.3	295.9	−0.9
52 02		42		179.4	
1 25		56	115.4	294.8	
50 37	52	08	117.1	179.0	
		20	116.2	296.1	−1.0
		31		179.5	
52 40		40	114.0	293.5	
1 25		48	115.5	178.7	
51 19		57	11~~5.2~~ 4.8	294.~~2~~	−1.0
	53	07		178.3	
53 22		15	115.0	293.3	
1 25			115.5		
7 51 57			115.2		−1.0

Oct 15, 1901

	7 53 26		178.8	
	41		294.3	
7 54 20	54 02		177.0	
1 25	10	118.2'	295.2	
7 52 55	28	118.8'	177.9	–1.1
	41	118.5'	296.7	
	53		177.0	
55 08	55 02	120.5'	297.5	
1 25	15	120.4'	177.1	– 1.2
53 43	24	120.4'	297.5	
	37		176.8	
55 57	52	119.0·	295.8	– 1.2
1 25	56 03	121.1'	177.1	
54 32	15	120.0'	298.2	→
	27		176.5	
57 02	39	121.0'	297.5	1
1 25	57 25	119.5'	177.5	–1.2
55 37	36	120.2'	297.0	
	48		175.4	
58 06	57	122.1·	297.5	2
1 25	58 13	123.5'	176.5	– 1.3
56 41	28	122.8'	299.0	
	38		177.6	
58 55	46	120.4°	298.0	
1 25	59 ~~5~~ 02	124.0°	174.5	3
57 30	13	122.2°	298.5	–1.3

Oct. 15, 1901

	7 59 25		175.9		
7 59 40	41	121.1	297.0	4	
−1 25	51	122.6	176.5		−1.3
7 58 20	8 00 02	121.8	299.1		
	13		175.1		
00 35	31	124.4	299.5		
1 25	43	123.3	175.7	5	
59 10	54	123.8	299.0		−1.4
	01 06		175.8		
8 01 21	15	123.2	298.5		
1 25	26	121.5	176.5	6	−1.3
7 59 56	37	122.4	298.0		
	47		176.5		
8 02 10	02 01	122.6	299.1	7	
1 25	~~10~~ 20	121.9	177.1		−1.3
8 00 45	31	122.2	299.0		
	56		177.5		
8 03 22	03 11	121.3	298.8	~~8~~	
1 25	34	123.7	175.2		−1.3
8 01 57	47	122.5	298.9		

Jup. low. Jup. and Sat. blurry; Observations rather difficult throughout but especially rather more so in early part of eclipse so that settings had to be taken slowly and with as much care as possible Seeing a little better during the latter part of the eclipse. Sat reappeared out of position as given by almanac; causing a delay of

Oct. 11-1901.

a few seconds to adjust the
image

Ballou 103 BD 0 1182
8 10 00 8 11 25.0

Phot T. 73.1901 Scuti Wells
18 51 −13.0
Above 2206 Ledgered.
3 1 5
352.2
8 26 30 ~~68.9~~ 69.7 ∠comp ✱ dis. 77.5
167.6 85.3
252.9 162.8 +0.33
348.4
29 45 72.0 83.9 +0.32
170.6 79.0
249.6 162.9 +0.32
Below mean = +0.44
266.4
32 55 336.4 70.0
80.8 81.7
162.5 151.7 +0.54

260.6 +0.54
8 34 30 340.4 79.8
12 3 40 84.3 71.6
8 30 55 158.9 151.4 +0.55
5 −0 25
13 29 30 Gr. M. Time.
5673.5622
5672.9420
+0.6202

Oct. 15, 1901

II

Below
265.3
8 37 40 337.9 72.6
81.8 78.3
160.1 150.9 +0.56

262.3 +0.59
39 50 339.8 77.5
8~~5~~.64 70.4
156.8 147.9 +0.62

Above Mean = +0.44
171.0
43 20 2~~5~~0.4 79.4
346.9 85.4
72.3 164.8 +0.29

166.9 +0.28
8 46 25 254.2 87.3
167 15 249.6 78.2
8 41 49 67.8 165.5 +0.27
5 - 1 25 Pos. ang = 279.2
1340 24 Gr.M.T. ~~Hou~~ Sid Time = 22.53
5673.5697 Hour angle = + 4:04
5672.9420 Decl. = −12.6
+0.6277 ~~Bo~~ S/m. Wheel = 5.5 B & 6.6 C

Oct 15. 1901.

S Coronae ~~F.G.~~ w Ob

15 17 +30.8
23 27
8 10

~~too low~~

R Herculis w Ob
16 2 +17.4
23 32
7 30

~~too low.~~

~~R Urs. maj. w Ob.~~

21 23 +11.6
M 15 23 33 w Ob
2 10

78.1901 Cygni w Ob
(U W Cygni)
plot 1 20 18 +42.5
23 52
2 34

Comp * is a star fol. +42° 3729 (9.1)
by 26 secs, & 4.8 N of it

Oct. 15, 1901

~~II~~ I

Ledgered.

Left + above
350.8 < comp * dis
10 58 45 68.8 78.0
176.1 75.2
251.3 153.2 +0.51

353.6 +0.44
11 00 30 69.9 76.3
169.7 84.2
253.9 160.5 +0.37

Right + Below Mean = +0.51
264.7
04 05 338.0 73.3
83.1 77.2
160.3 150.5 +0.57

261.5 +0.58
11 06 15 340.1 78.6
9 35 8[illegible].7 70.2
11 02 24 155.9 148.8 +0.60
5 - 1 25
16 00 59 Gr. M. Time.
5673.6674
5673.3626
0.3048

Oct. 15, 1901

II

Right & Below

268.0

11 07 50 336.1 68.1

84.4 71.9

156.3 140.0 +0.77

262.6 +0.69

09 30 342.0 79.4

87.0 67.8

154.8 147.2 +0.61

Left & above mean = +0.62

173.2

11 50 250.8 77.6

354.6 72.0

66.6 149.6 +0.58

176.3 +0.56

11 13 50 248.4 72.1

43 00 350.9 80.2

11 10 45 ~~[illegible]~~ 71.1 152.3 +0.53

5 −1 25

16 09 20 Gr. M. Time.

5673.6731

5673.3626

0.3105

Oct. 15, 1901.

III

Left & above

169.6

11 20 10 251.1 81.5 ✓

352.2 76.2 ✓

68.4 157.7 +0.43 ✓

174.0 +0.48 ✓

2 3 20 246.5 72.5 ✓

351.2 79.2 ✓

70.4 151.7 ✓ +0.54 ✓

Right & Below Mean = +0.59 ✓

82.8

2 6 20 158.6 75.8 ✓

264.6 71.0 ✓

335.6 146.8 ✓ +0.64 ✓

90.4 +0.70 ✓

11 28 10 156.0 65.6 ✓

18 00 262.2 75.5 ✓

11 24 30 × 337.7 141.1 ✓ +0.75 ✓

5 - 1 25

16 23 05 × G. M. Time

5673.6827 ×

5673.3626 ×

0.3201 ×

Oct. 15, 1901

IV

Right & Below

838
11 33 00 157.0   73.2
265.8   71.2
337.0   144.4 +0.69

86.1   +0.66
35 10 155.8   69.7
262.9   78.1
341.0   147.8 +0.62

Left & Above   Mean = +0.58

355.9
38 25 68.9   73.0
172.1   81.4
253.5   +54.4 +0.49

348.9   +0.50
11 40 15 71.0   82.1
26 50 174.8   72.6
11 36 42 246.8   154.1 +0.50
5 -1 25
16 35 17 G. M. T.   Pos Ang 48.9 Y a B.
5673.6912   Decl'n +43.0
5673.3626   Hour Ang +5. 14
+0.3286   Sid Time 1 :31
Star-Wheel = 6.5 a 7.5 B

~~11 50~~

Oct. 15, 1901

R. Urs. Maj. 20 Obs.

10 32 +69.3
1 32
9 00
3 00

12 00 +2.5 var 1 u

12.05 —

Ledgered Plotted,
Posted.

Oct. 16, 1901. (Wednesday)

B & C 1182 Ballou 103
6 44 42.0 6 43 00

R Herculis W Obs
15 55 +18.2
20 45
4 50 ✓
7 03 t 3 var 05 u

S Coronae W Obs
15 17 +30.8
20 57
5 40
7 12 r 4 var 05 s ✓

R Ursae Minoris W Obs
Phot T. 16 34 +72.9
21 08
4 34

see next page

Oct. 16, 1901

R Urs. Min.

Right & Above

84.3 < comp * dis.

7 26.0 158.8 74.5 ✓

268.6 65.0 ✓

333.6 139.5 + 0.78 ✓

✓

88.5 ✓ + 0.78

153.~~4~~7 65.2

264.8 74.0 ✓

3~~4~~38.8 ✓ 139.2 + 0.79 ✓

Left & Below mean = + 0.69 ✓

350.6

71.6 81.0 ✓

178.6 66.1 ✓

244.7 ✓ 147.1 + 0.63 ✓

+ 0.60 ✓

357.2

7 34.6 66.7 69.5 ✓

7 30.3 1~~6~~72.0 80.9 ✓

5-1.7 252.9 150.4 + 0.57 ✓

12 28.6 J. M. Price.

5674.520

Oct 16, 1901.

Same Again

Left & Below

350.8
7 36.4 60.9 70.1
168.4 78.1
246.5 148.2 +0.61

358.3
67.1 66.8 +0.62
172.1 80.2
252.3 147.0 +0.63

Right & Above Mean = +0.65

263.7
341.7 78.0
87.3 67.1
155.4 145.1 +0.67

269.2°
7 42.8 335.8 66.8 +0.68
79.2 81.1 76.7
7 39.6 ~~159.80~~ 143.5 +0.70
5 - 1.7 157.8 Final Mean = +0.67
12 37.9 Gr. M.T. Pos Ang = 39°.8 Ver B
5674.526 Hour Ang = + 5:7
Decl = +72.6
S'id Time = 21:40
S pr. Wheel = 2.573 & 3.6 R

Oct. 16, 1901

Phot T. 73.1901 Scuti 20 Obs

18 51 −13.0
21 43
2 5 2

Above
169.1 ‹comp * dis
8 02 05 252.2 83.1
349.1 84.1
73.2 167.2 +0.24

168.2 +0.27
04 48 255.1 86.9
352.3 77.0
693 163.9 +0.30
Below Mean = +0.39
84.6
08 20 158.0 73.4
262.3 80.9
343.2 154.3 +0.49
~~8~~ .

80.9
8 10 42 161.8 80.9 +0.51
25 55 x 264.8 71.4
8 06 29 x 336.2 152.3 +0.53
5 14 2
13 04 47 x Gr M.T.
5674.5450 x

Oct. 16, 1901

II

Below
85.3
8 13 05 156.3 71.0
259.2 81.0
340.2 152.0 +0.54

81.4 +0.54
15 30 162.8 81.4
266.3 70.6
336.9 152.0 +0.54

Above Mean = +0.41
353.4
18 45 68.6 75.2
167.2 87.8
255.0 163.0 +0.32

346.2 +0.28
8 21 20 72.3 86.1
28 45 1176.4 80.6
8 17 11 251.0 166.7 +0.23
5 -1 42 Pos Ang. = 278.8 Ver B.
13 15 29 Gr. M. T. Hour Ang. = +3:38
5674 5524 Sid. Time. = 22.26
Decl = -12.7
Spr. Wheel. = 5.5 B+66 C

Oct. 16 1901.

M. 15. Cluster
21 23 +11.6   W Obs
22 43
1 20

Comp star for Standards =
DM +11° 4580 (9.5)

Phot T. 78.1901 Cygni   W Obs
20 18 +42.5
23 28
3 10

Above

349.2 < comp * dis

9 48 12   72.2   83.0
176.9   71.8
248.7   154.8   + 0.48

352.8

51 35   68.2   75.4   +0.48
172.5   80.0
252.5   155.4 +0.47

Below   Mean = +0.57

263.2

55 14   339.5   76.3
84.6   71.5
156.1   147.8   +0.62

267.0

9 58 28   336.3   69.3   +0.66

21 3 29   84.3   75.0

9 53 22   159.3   144.3   +0.69
5 - 1 42
14 51 40 Gr. M. Time
5674.6192

5674.6192
5673.3626
+1.2566

Oct. 16, 1901.

~~Right~~ Below — II

263.3

10 01 28 339.3 — 76.0

86.5 — 68.0

154.5 — 144.0 +0.69

+0.69

269.2

04 12 336.5 — 67.3

82.8 — 77.0

159.8 — 144.3 +0.69

Above — mean = +0.60

170.8

08 03 252.4 — 81.6

353.6 — 73.0

66.6 — 154.6 +0.49

145.4 — +0.50

10 11 48 247.4 — 72.0

25 31 350.0 — 81.8

10 06 23 × 71.8 — 153.8 +0.50

5 −1 42 — Pos. Ang = 48.2 Ver B.

15 04 41 G. M. T. — Hour Ang = +3.ʰ48

5674.6283 — Sid Time = 0:07

5673.3626 — Decl = +42.8

+1.2657 — S'p-Wheel = 6.6 a + 7.5 B

Oct. 16, 1901.

δ ~~R~~ Tauri w Ob.

28 19 +10 28 16 +9.1
24 19 24 16
4 00 4 00
8 00 8 00

10 40 y 2 var, var 1 z

R Tauri w Ob.

u 3 var, 1 w

10 43

w Delphini w Ob

Phot T. 20 33 + 17.9
Above 24 33
827 < comp + dis. 00

10 54 14 158.3 75.6
269.1 64.1
333.2 139.7 +0.78
88.4

55 00 153.4 65.0 +0.74
263.4 78.2
341.6 Below 143.2 +0.71
348.1 Mean = + 0.60

57 55 72.6 84.5
176.1 72.8
248.9 157.3 +0.43
355.2

+0.46

10 59 45 68.3 73.1
26 54 171.1 81.6
10 54 44 252.7 154.7 +0.48
5 - 1 42

15 53 02 G. M. Trine 5674.6618
5674.4656
~~0.1962~~

Oct. 16, 1901

II

	Below		
	349.4		
11 01 30	71.1	81.7	
	173.5	76.0	
	249.5	157.7	+ 0.43
	353.3		+ 0.42
04 12	69.3	76.0	
	171.2	83.2	
	254.4	159.2	+ 0.40
	Above	Mean = + 0.49	
	260.0		
06 30	341.1	81.1	
	86.3	68.5	
	154.8	149.6	+ 0.58
	266.0		+ 0.56
11 08 15	336.0	70.0	
~~37~~	79.9	81.3	
20 27	161.2	151.3	+ 0.55

11 05 07 ~~2~~
5 − 1 42
16 03 25 G.M.T.

5674.6690
74.4656
+0.2034

Oct. 16, 1901

III

Above
261.6 79.2
11 10.00 340.8 71.4
84.8 150.6 + 0.56
156.2

+ 0.54

267.2
1212 338.4 71.2
80.6 81.9
162.5 153.1 + 0.57

Below Mean = + 0.45

170.1
1450 252.8 82.7
354.1 75.9
70.0 158.6 + 0.41

172.8 + 0.36
11 17 38 249.1 76.3
15 40 347.5 87.1
11 13 55 74.6 163.4 + 0.32
5 - 1 42
16 12 13 Gr. M. Time -
5674.6751
5674.4656
0.2095

Oct. 16, 1901.

IV

Below
170.3
11 20 10 255.0 84.7
353.2 77.1
70.3 161.8 +0.35

173.8 +0.33
22 32 248.2 74.4
346.4 89.2
75.6 163.6 +0.31

Above Mean = +0.42
80.4
2526 160.8 80.4
264.5 72.7
337.2 153.1 +0.51

85.1 +0.50
11 28 18 157.2 72.1
16 26 259.5 82.6
11 24 06 3~~41.8~~ 154.7 +0.48
5 1 42 342.1
16 22 24 Gr. M. Time.
5674.6822
5674.6656
0.2166

Oct. 16, 1901

V

Above
80.5
11 30 25 160.8 80.3
253.5 83.5
337.0 163.8 +0.31

84.5 +0.38
32 15 157.5 73.0
258.9 83.7
342.6 156.7 +0.44

Below Mean = +0.29
345.8
34 30 76.1 90.3
171.5 80.5
252.0 170.8 +0.17

351.8 +0.20
11 36 25 69.8 78.0
13 35 166.2 90.6
11 33 24 256.6 168.6 +0.22
5-1 42 Pos. Angle = 166.0 Ver. B.
16 31 42 G. M. Time Sid. Time = 1.34
5674.6889 Hour Angle = 5.03
5674.6656 Decl. = +17.8
+0.0231 Sp. Wheel = 6.6 a & 7.5 B
11 50 Ledgered; Plotted; Posted

Oct. 18, 1901 (Friday)

B&C 1182 ~~B&C 1182~~ Ballou

7 04 08.0 7 02 00.0 + 03

73.1901 Slaute

Phot T. 18 51 - 13.0 20 Obs.

~~Oil dome~~ 21 11

~~Fix key~~ 2 20

Above

171.4

7 21 33 251.4 80.0

346.7 89.5

76.2 169.5 +0.20

164.1

24 33 255.2 91.1 +0.18

349.7 79.8

169.5 170.9 +0.17

Below

85.2 mean = +0.34

27 55 157.4 72.2

259.9 81.4

341.3 153.6 +0.50

80.9 +0.51

7 29 49 166.0 82.1

23 50 265.9 70.9

7 25 58 336.8 153.0 +0.52

5 - 2 08

12 23 50 G.M.T.

5676.5166

5675.8040

0.7126

Oct. 18, 1901.

II

Below

86.7

7 3242 158.3 71.6

260.0 81.5

341.5 153.1 +0.51

~~808~~ +0.53

3128 161.6 80.8

266.2 70.7

336.9 151.5 +0.55

Above. mean = +0.36

351.3

3942 69.3 78.0

165.0 90.0

255.0 168.0 +0.23

347.3 +0.20

7 4240 73.2 85.9

26.32 171.0 85.7 0.16

7 36 38 256.7 ~~165.6~~ + ~~0.27~~

171.6

5 2 08

12 343 0 Gr. M. T. Hour Angle = +3.07

5676.5240 Decl = −12.6

5675.~~8040~~ Sid Time = 21.54

~~2~~7200 Spectr. Wheel = 55 B + 66 C

Pos ang = 279.2 B

Oct. 18, 1901

21 23 +11.6
22 23
0 50

X Cygni w. Obs
19 45 +32.6

9 v Cap. 22 17
2 32

Abandoned for the

cluster M 15 w Obs

Phot T. Star 1.
Right & above <comp + dis

8 47.0 | 94.9
143.3
278.3
323.2
+98.9
143.9
275.9
325.7
Left & Below.
4.1
60.1
186.7
236.6
1.9
8 59.8 | 60.3
8 53.4 | 186.4
5 - 2.1 | 236.7
13 51.3 Gr M.T.
5676.577 ×

48.4"
44.9
93.3 +1.83
+1.81
45.0"
49.8
94.8 +1.79
mean = +1.64

56.0"
49.9"
105.9 +1.51

58.4" +1.48
50.3"
108.7 +1.45

Oct. 18, 1901.

Star 3.

~~[illegible]~~ above

5.8 comp x dis

904.4 55.5 49.7

183.7 54.6

238.3 104.3 + 1.55

38 + 1.56

59.1 55.3

188.4 47.9

236.3 103.2 + 1.58

Below Mean = + 1.61

278.8

325.3 46.5

95.8 51.8

147.6 98.3 + 1.70

272.9

912.8 326.9 54.0 + 1.66

908.6 97.4 48.1

5-2.1 145.5 102.1 + 1.61

1406.5 G. M. T.

5676.58~~7~~8

Oct. 18, 1901

Star No. 4.

Below

279.9

9 16.0 325.0 comp * dis 45.1

98.6 45.7

144.3 90.8 +1.89

~~277.3~~

+1.88

277.8

326.1 48.3

100.7 43.6

144.3. 91.9 +1.86

Above Mean = +1.82

189.3

234.3 45.0

6.6 49.0

55.6 94.0 +1.81

+1.76

185.2

9 24.0 236.6 51.4

9 20.0 4.1 47.0

5 - 2.1 54.1 98.4 +1.70

14 17.9 Gr. M.T.

5676.596×

Oct. 18, 1901.

above Star No. 5

~~Below~~

	4.8 comp * dis	
9 29.0	53.3	48.5
	191.2	39.9
	231.1	88.4 + 1.96″
	10.5	+1.96″
	50.4	39.9
	188.0	48.8
	236.8	88.7 +1.95″
	~~Above~~ Below	mean = +2.04″
	280.1	
	322.8	42.7
	101.6	39.3
	140.9	82.0 +2.14″
	282.6	+2.13″
9 39.4	321.4	38.8
9 34.2	99.0	43.7
5 - 2.1	142.7	82.5 +2.12″
14 32.1	Gr. M.T.	
5676.606+		

Oct. 18, 1901

Star No. 2.

Below

252.7 < comp + obs
9 43.0 350.8 98.1
75.4 88.0
163.4 186.1
173.9 −0.11

260.2
345.8 85.6 −0.09
71.1 98.1
169.2 183.7 −0.07
176.3
Above mean = −0.18
160.9
263.1 102.2
343.1 94.2
77.3 196.4
163.6 − 0.31

166.2
9 57.0 257.8 91.6 −0.27
9 47.0 340.2 100.5
5 −2.1 80.7 192.1
14 44.9 Gr. M. T. 167.9 −0.23
5676.615+

Comp. star for stars in Messier 15 = +11° 4580 (9.5)

Oct. 18, 1901.

Phot T. 78.1901 Cygni Wells

20 18 +42.5

24 05

3 47

Above

169.9 <comp * obs

10 12 29 250.2 80.3

354.4 72.7

67.1 153.0 +0.52

15 176.4 +0.58

~~2~~ 31 248.4 72.0

352.7 74.1

66.8 146.1 +0.65

Below mean = +0.67

88.3

18 42 154.7 66.4

263.2 73.6

339.8 140.0 + 0.77

83.8 +0.76

10 20 48 158.4 74.6

6730 268.0 66.8

10 16 52 334.8 141.4 +0.75

5-2 8

10 14 44 Gr. M. Time

5676.6352

~~5676.8132~~

5673.3625

+32727

Oct. 18, 1901

II

	Below		
	86.3		
10 23 57	155.8	69.5	
	262.8	76.5	
	339.3	146.0	+ 065
	85.5		+ 0.73
26 33	156.8	71.3	
	268.8	66.7	
	335.5	138.0	+ 0.81
	Above	Mean = + 0.72	
	356.5		
29 35	63.2	66.7	
	172.4	77.0	
	249.4	143.7	+ 0.70
	351.2		+ 0.72
10 31 25	68.0	76.8	
11.1 30	178.4	65.0	
10 27 52	×243.4	141.8	+ 0.74

5 - 2 8

15 25 44 × Gr. M.T.

56)6.6429 ×

56)3.3625

+3.2801

Oct. 18, 1901

III

Above
357.8
16 37 52 65.6 — 67.8 ✓
175.4 — 71.8 ✓
247.2 — 139.6 ✓ + 0.78 x

342.5 3 — +0.66 ✓
40 27 68.8 — 86.5 ✓
178.5 — 65.4 ✓
243.9 — 151.9 ✓ + 0.54 ✓

Below — Mean = + 0.77 ✓
~~264.4~~
43 12 335.5 — 71.1 x
88.8 — 62.8 x
151.6 — 133.9 x + 0.90 ✓

270.1 — +0.88 ✓
16 45 49 333.4 — 63.3 ✓
167 20 83.5 — 71.9
1041 50 155.4 — 135.2 ✓ + 0.87 x
5 - 2 8
15 39 42 Gr. M. Time -
5676.6526 x
5673.3625
+3.2901

Oct. 18, 1901

IV

Below

265.1

10 50 10 337.3   72.2

88.9   62.4

151.3   134.6   + 0.88

270.6   + 0.90

52 22 333.1   62.5

86.3   70.7

154.0   133.2   + 0.91

Mean + 0.85

Above

172.9

55 20 247.9   75.0

0.0   63.3

63.3   138.3   + 0.81

179.5   + 0.80

7

10 5~~8~~ 03 243.2   63.7

14 55 352.7   74.9

10 53 44 67.6   138.6   + 0.80

5 — 2 A

15 51 36 Gr M Time.

5676.6608

5673.3625

+ 3.2983

Oct. 18, 1901

V

Above

177.3

11 00 24 247.0 74.7

357.6 64.6

62.2 139.3 0.79

+0.84

180.7

02 26 243.2 62.5

354.1 72.2

66.3 134.7 +0.88

Below Mean = +0.89

87.0

06 00 157.1 70.1

268.9 63.3

332.2 133.4 +0.91

91.1 +0.94

11 07 45 151.4 60.3

16 35 266.3 69.5

11 04 09 335.8 129.8 +0.98

5-2 8

16 02 01 Gr M T

5676.6681

5673.3625

~~+0.2556~~

+$\overset{3}{0}$.3056

Oct. 18, 1901

VI

Below

85.8

11 14 45 156.5 70.7

271.3 58.6

329.9 129.3 + 0.99 ✓

91.4 + 1.00 ✓

17 07 148.6 57.2 ✓

264.7 70.7 ✓

335.4 127.9 ✓ + 1.02 ✓

Above Mean = + 0.98 ✓

352.6

20 05 67.0 74.4 ✓

186.9 54.0 ✓

240.9 128.4 + 1.01 ✓

357.4 0.97 ✓

11 21 43 59.1 61.7 ✓

73 40 176.2 70.6

11 18 25 246.8 132.3 + 0.93 ✓

5 - 2 8

16 16 17 Gr. M. Time

5676.6780

5673.3625

+3.3155

Oct. 18, 1901

VII

Above
355.8
1123 41 65.9 70.1
181.2 61.2
242.4 131.3 +0.95

+0.92
358.1
2624 59.8 61.7
175.1 72.4
247.5 134.1 +0.89

Below
Mean = +0.99
267.6
2901 335.3 67.7
92.9 56.7
149.6 124.4 +1.10

271.8 +1.06
3104 331.3 59.5
3010 86.1 67.9
11 27 32 15.40 127.4 +1.03
5-2 8
16 25 24 Gr. M. T.
5676.6843
5673.3625
+3.3218

Oct 18, 1901

Clouds ~~IX~~

VIII

Below

268.6

11 34 14 334.3 65.7

89.4 60.7

140.1 126.4 + 1.05

+1.12

273.4

36 46 332.8 59.4

89.8 60.7

150.5 Reject 120.1 + 1.19

mean = +

Above

(11 40) clouds stars invisible

17 clds

11 57 clds thick.

Hour ang +5 : 46

Decl = +42.9

Sid Time = 2 : 04

Sp. wheel = 6.6 a + 7.5 B

Pos ang. 45.7 Per B.

~~Stopped~~ by clouds no

12 10 chance for anything further.

L. P. P.

Oct. 1~~8~~9 1901 (Saturday)

cloudy before 7:25

B&C 182 Ballou 103

7 30 02.0 7 28 05

Phot T. 7 3. 1901 [illegible] volts.

18 51 −13.0

21 37

2 46

7 43 cloudy again.

8 45 cloudy

18 51

22 57

4 06

8 50 clearer

Oil Done

Fix Key

9:00 sky nearly all clear.

Oct. 19, 1901

7³ 1901 Neute 20 Obs.

above
170.2
9 07 22 2

. Region so low & so much wind impossible after clearing to observe this variable.

Nr. 15 20 Obs.

21 23 +11.6
~~Below~~ 23 13
Right above 1 50
277.3 Star no. 1
9 24.6 327.1 49.8
97.4 44.3
141.7 94.1 +1.81
281.2
323.4 42.2 +1.80
94.1 52.6
146.7 94.8 +1.79
Left Below mean = +1.67
181.3
241.4 60.1
8.6 46.8
55.4 106.9 +1.49
187.9
9 34.4 234.1 46.2 +1.54
9 29.5 2.6 56.6
95 -2.0 59.2 5677.602 102.8 +1.59
14 27.5

Oct. 19, 1901

Star No 3

Above
188.1
940.4 239.2 51.1
2.4 54.8
57.2 105.9 +1.51

184.2 +1.52
239.1 54.9
4.4 50.4
54.8 105.3 +1.53
Below
94.3 Mean = +1.58
147.0 52.7
278.0 48.1
326.1 100.8 + 1.64

99.2 +1.65
948.6 145.7 46.5
9.0 274.8 53.2
944.5 328.0 99.7 + 1.66
5 - 2.0
1442.5 G. M. Time
5677.612

Oct. 19, 1901

Star No. 4.

Below

97.7

952.0 144.8 47.1

282.1 41.6

323.7 88.7 + 1.95

99.1 +1.91

141.9 42.8

276.3 48.8

324.1 91.6 +1.87

Above Mean = +1.86

7.6

54.1 46.5

185.8 50.6

236.4 97.1 +1.73

4.5

10 01.4 53.1 48.6 +1.82

9 113.4 190.6 41.7

~~14~~ 56.7 232.3 90.3 +1.91

5 − 2.0

1~~3~~4 54.7 G.M.T.

5677.622

Oct. 19, 1901

Above Star No 5.

5.1
10 05.0 52.8 47.7
191.2 41.6
232.8 89.3 1.93

9.3 1.91
50.8 41.5
186.3 49.3
235.6 90.8 1.89

Below Mean = +1.99
289.3
324.5 45.2
102.5 37.3
139.8 82.5 +2.12

282.1 +2.07
10 12.4 319.7 37.6
17 96.8 48.4
10 8.7 145.2 86.0 + 2.02
5 −2.0
10 6.7 Gr. M. T.
5677.630

Oct. 19. 1901

Star No 2.

Below
250.6 {comp * dis
10 15.0 350.0 99.4
74.3 89.0
163.3 188.4 − 0.16
171.6

257.9 −0.14
344.7 86.8
73.2 98.8
172.0 185.6
174.4 −0.11

Above
263.6 Mean = −0.03
340.5 76.9
73.2 94.0
167.2 180.9 −0.02
179.1

256.6
10 20.0 347.3 90.6
80.8 80.1
150.9 170.7

Reject

troubled by clouds and
rapid settings* + & again veiling
of approaching clouds

Oct. 19, 1901

Above Star No. 2 Again

261.4 Stand. dis.

10.26.2 338.9 77.5 ✓
77.5 87.6 ✓
165.1 165.1 ✓ − 0.28 ✓

−0.26 ✓

259.2
344.8 ~~85.6~~ 85.6 ✓
78.6 ~~81.3~~ 81.3 ✓
159.9 166.9 − 0.25

Below

Mean = −0.16 ✓

170.0
254.2 84.2 ✓
347.1 92.9
80.0 177.1 ✓ − 0.05 ✓

165.4 −0.06 ✓
10 34.4 25~~7.8~~ 8.7 93.5 ✓
10 30.3 352.2 83.0 ✓
5−2.0 75.2 176.3 ✓ − 0.07 ✓

15 28.3 * G.M. Time
5677.644

Oct 19, 1901

Phot T. X Cygni 20 Obs.

9.5 cap. used

Above

174.6 < var dis.

10 44.4 247.0 72.4

1.1 59.6

60.7 132.0 − 0.94

180.2 − 0.90

241.3 61.1

352.1 74.0

66.1 135.1 − 0.87

Below

Mean = − 0.98

87.2

155.8 68.6

273.7 56.7

330.4 125.3 * − 1.08

93.4 − 1.06

10 49.8 149.3 55.9

14.2 265.6 71.2

10 47.1 336.8 127.1 − 1.04

5 − 2.0

15 45.1 G. M. T.

5677.656

Oct. 19, 1901.
Same Again.

Below
87.3
10 51.5 156.3 69.0
272.7 58.2
330.9 127.2 — 1.04
— 1.03

92.3
150.1 57.8
265.1 70.2
335.3 128.0 — 1.02

Above Mean = −0.96
353.7
66.2 72.5
179.1 61.3
240.4 133.8 — 0.90

359.4
10 56.5 67.0 62.6 — 0.88
8.0 174.8 73.8
10 54.0 248.6 136.4 — 0.85
5 — 2.0
15 52.0 Gr. M. Time. Hour ang = +5.14
5677.661 Sid Time = 1:02
Decl. = +32.5
Spn-Wheel = 4.6 a + 5.5 b

Pos ang = 23.5

Oct. 19, 1901

Phot W o Ceti 2 Obs

Right
135.8
11 14.6 174.5 38.7
313.9 40.2
354.1 78.9 − 2.23

133.2
173.0 39.8 −2.22
313.1 40.0
353.1 79.8 − 2.20

Left Mean = − 2.24
424
82.1 39.7
220.7 40.1
260.8 79.8 − 2.20

41.~~8~~3
11 19.8 79.9 38.6 22
14.2 222.1 39.0
11 17.1 261.1 77.6 − 2.30
5 - 2.0
16 15.1 Gr.M.T.
5677.677

Oct 19, 1901
Same again.

Left
40.9
11 21.6 81.3 40.4
220.1 40.5
260.6 80.9 - 2.17

42.0 - 2.21
81.5 39.5
221.2 38.8
260.0 78.3 - 2.25
Mean = - 2.20
Right
~~30~~310.1
352.2 42.1
131.3 39.2
179.5 81.3 - 2.16

310.2 - 2.18
11 26.4 354.5 41.3
8.0 131.5 38.7
11 24.0 ~~169~~. 80.0 - 2.19
5-20 170.2 Final Mean = - 2.22
16 22.0 G. M. Time 9.19
5677.682 Sid Time 1:34 Magn = 6.97
Hour Ang - 0:37 East
Decl. - 37
Pos Angle 36.6 Ver B.

1135 Ledgered. Plotted, Posted.

Oct. 21, 1901 (Monday)

βθC1182 Ballou 23
6 52 45.1 6 50 0.0
7³. 1901 Sauti W. Obs
Phot. T. 18 51 −13.0
21 07
Above 2 16
350.8 < comp ✱ dis.
7 08 58 70.4 79.6
161.0 9.54
256.4 175.0 + 0.09 ✓

347.4 + 0.16 ✓
10 49 76.1 88.7
171.1 79.5 ✓
250.6 168.2 ✓ + 0.22 ✓

Below mean = + 0.35 ✓
267.6
14 01 336.7 69.1 ✓
79.8 82.4 ✓
162.2 151.5 ✓ + 0.55 ✓

259.1 + 0.54 ✓
7 15 15 341.7 82.6 ✓
4.9 03 84.9 70.3 ✓
7 ~~4~~2 16ˣ 155.2 152.9 ✓ 0.52 ✓
5 − 2 45
12 09 31 Gr. M. Time
5679.5066ˣ
5678.6660
+ 0.8406

Oct. 21, 1901.

II

Below

267.5

7 17 50 338.0 — 70.5 ✓

80.0 — 82.3 ✓

162.8 — 152.8 ✓ + 0.52 ✓

17

260.9 — ✓ + 0.53

19 50 342.6 — 81.7 ✓

86.6 — 70.2 ✓

156.8 — 151.9 + 0.54 ✓

Above — Mean = + 0.36 ✓

170.8

23 22 250.2 — 79.4 ✓

343.8 — 89.0 ✓

72.8 — 168.4 + 0.22 ✓

+ 0.20

166.4

7 25 28 257.8 — 91.4 ✓ +

8 6 30 351.5 — 78.9 ✓

7 21 38 70.4 — 170.3 ✓ + 0.18

5-2 45

12 18 53 Gr.M. Time

5679.5131 ×

5678.6660

+0.8471

Oct. 21, 1901

III

Above
171.6
7 31 51 252.8 81.2
345.8 87.8
73.6 169.0 + 0.20

+ 0.26

166.2
34 51 252.8 87.6
352.0 76.0
68.0 163.6 + 0.31

Mean = + 0.36

Below
84.3
39 35 159.0 74.7
259.4 83.4
342.8 158.1 + 0.42

80.6 0.47
7 42 24 160.1 79.5
28 41 265.2 73.1
7 37 10 338.3 152.6 + 0.52
5 - 2 45
12 34 25 Gr. M. Time
5679.5239
5678.6660
+0.8579

6+33
133 16.9

Oct 21, 1901.

Below ~~IV~~

84.2
7 51 $\overset{5}{\cancel{4}}$3 157.2 73.0
259.4 82.6
342.0 155.6 + 0.47 ✓

81.8 ✓ + 0.52 ✓
5548 160.4 78.6 ✓
265.6 71.3 ✓
336.9 149.9 ✓ + 0.58 ✓

Above Mean = + 0.43 ✓
351.1
5 9 09 69.0 77.9 ✓
168.9 85.5 ✓ ✓
254.4 163.4 ✓ + 0.32

✓
348.5 ✓ + 0.34
8 01 48 71.2 82.7
> 28 38 171.1 79.1 ✓ ✓
8 57 10 250.2 161.8 ✓ + 0.35
5 - 2 45
18 54 25 Gr.M.T.
5679.5378 ×
5678.6660 ✓
+ 0.8718

Oct 21, 1901

V

Above

~~69 70.1~~

~~8 09 43~~ 352.4
8 11 45 69.4 77.0
179.4 85.3
254.7 162.3 +0.34

347.8 +0.34
15 10 72.2 84.4
173.0 77.1
250.1 161.5 +0.35

Below mean = +0.50
267.7
18 55 335.0 67.3
81.3 79.1
160.4 146.4 +0.65

262.3 +0.65
8 21 58 337.8 75.5
27 48 85.9 70.6
8 46 57 ×156.5 146.1 +0.65
5 - 2 45
13 44 12× Gr. M.T.
5679.5515×
5678.6660
+0.8855

Oct. 21, 1901

~~VI~~

Below

268.0

8 33 38 335.5 67.5

83.9 74.1

158.0 141.6 + 0.74

+ 0.73

262.2

41 38 339.0 76.8

87.4 66.0

153.4 142.8 + 0.72

Above Mean = + 0.62

172.6

45 36 249.7 77.1

357.5 72.0

169.5 149.1 + 0.59

169.8 + 0.52

8 49 28 253.6 83.8

17020 α 353.6 72.8

8 42 35 λ 66.4 156.6 + 0.45

5 = 2 45

1339 50 × Gr M.T.

5679.5693 α

5678.6660

+ 0.9033

Oct. 21, 1901

VII

~~Above~~
~~1749~~

9 04

~~Impossible~~

Pos Ang. 279.2

Hour Angle +4:32
Decl - 12.6
Sid Time 23:19
Sprock Wheel - 5.5 B + 4.6 C

moon rather bright; region now low & impossible to make farther settings -

Nova Persei W.B.

Phot T. 27 24 + 43.6
23 44
3 40
8 20

9.5 cap used

see next page

Oct. 21, 1901.

Nova Persei

	Above		
	257.7	< Nova Dis	
9 48.4	344.6	86.9 ✓	
	87.1	65.6 ✓	
	152.7	152.5 ✓	−0.53
	268.2		−0.46 ✓
	336.5	68.3 ✓	
	75.1	90.9 ✓	
	166.0	~~169.2~~	
	Below	159.2 ✓	−0.40 ✓
	166.6		Mean = −0.39 ✓
	256.1	89.5 ✓	
	355.3	74.0 ✓	
	69.3	163.5 ✓	−0.31 ✓
	175.5		−0.32 ✓
9 56.0	247.9	72.4 ✓	
104.4	346.2	90.2 ✓	
9 52.2	76.4	162.6 ✓	−0.33
5 − 2.8			

14 49.4 G. M. time

5679.617

Oct. 21, 1901.

Same Again

Below

~~9 58 15 163.0~~
~~254.9~~
355.8
9 59.4 68.8 73.0
167.4 89.0
255.4 162.0 −0.34

347.1 −0.38
75.3 88.2
176.8 69.4
246.2 157.6 −0.43
Above
257.9 Mean = −0.43
344.4 86.5
85.6 68.9
154.5 155.4 −0.47

268.4 −0.48
10 06.0 335.8 67.4
125.4 77.2 ~~86.8~~ −0.41
~~10 62.7~~ 164.0 154.2 −0.49 7.25
10 02.7 Magn = 6.84
5 − 2.8
14 59.9 Gr. M.T.
5679.625

Sid Time 0:22
Hour Angle = ~~+~~ −2:58 East
Decl +43.4
Pos Angle 75.5 Vert B
Sp. Wheel 0.5 a & 1.5 B

Oct 21, 1901

Phot T. 78.1901 Cygni Wells
20 18 + 42.5
24 25
407

Above
354.3 < comp ✱ dis
10 32 43 67.6 73.3 ✓
172.1 78.4 ✓
250.5 151.7 + 0.54 ✓
351.1
35 55 71.9 80.8 + 0.53 ✓
175.4 71.8 ✓
247.2 152.6 + 0.52
Below Mean = + 0.59 ✓
266.7
39 47 335.8 69.1 ✓
81.7 76.3 ✓
158.0 145.4 + 0.67 ✓

261.7 + 0.65 ✓
10 42 45 343.0 81.3 ✓
31 10 86.3 65.9
10 37 48 54.2 147.2 + 0.63 ✓
5 - 2 45
15 35 03 Gr M Time
5677.6493

Oct. 21, 1901

Same Again

Below

268.2

10 44 40 338.4 70.2 ✓

82.5 78.5 ✓

161.0 148.7 +0.60 ✓

✓

264.5 ✓ +0.64

47 20 338.3 73.8 ✓

85.6 70.8 ✓

156.4 144.6 ✓ +0.68

Above Mean = +0.56 ✓

176.1

50 25 248.1 72.0 ✓

348.1 83.8 ✓

71.9 155.8 ✓ +0.46 ✓

171.4 +0.47 ✓

10 53 35 252.2 80.8

19 6 00 353.9 73.9

10 49 00 67.8 154.7 +0.48

5 -2 45

15 46 15 Gr. M.T. Sid Time 21 07

5679.6570 Hour Ang +4.51

Decl +42.8

Pos Ang 48.9 Ver β

S'pr. Wheel 6.7 a of β 7.5

Oct. 21, 1901

Phot W   o Ceti   20 Obs

2 12   -3.6
1 12
1 00
11 00

Left

213.1
11 09.0   255.6   42.5
33.4   42.0
75.4   84.5 - 2.06
213.1
264.6   41.5   2.11
33.6   39.6
73.2   81.1 - 2.16

Right

124.4   Mean = 2.12
163.8   39.4
302.6   43.0
345.6   82.4 - 2.12

121.3   - 2.12
11 15.0   165.6   44.3
11 12.0   304.0   40.8
5 - 2.8   344.8   85.1 - 2.13
16 09.2 Gr. M. T.

5679.673+

Oct 21, 1901

Same Again

Right
124.3
11 16.8 164.6 40.3
302.6 43.4
346.0 83.7 — 2.09

122.3 -2.10
164.1 41.8
303.4 41.5
344.9 83.3 — 2.10

Left Mean = -2.09
33.9
74.7 40.8
213.3 40.5
253.8 81.3 — 2.16

34.4 -2.08
11 23.0 76.7 42.3
39.8 212.0 46.0
11 19.9 256.0 86.3 — 2.01 Final mean = -2.10
5 -2.8 2.09
Ver B. 1~~03~~ 16 .6 = Pos. Ang magn = 2.09
16 17.1 Gr. M.T. Sid Time 1:37
5679.678 Hour ang = -0.34 East
11 30 Decl -3°.6

Red. Plotted Posted

Oct 22, 1901 Tuesday)

BDC 1182 Ballou #3

7 07 00.5 7 04 0.8

7 00 Partly cloudy

Σ 60 20 Obs

24 41 +57.2
21 31
3 10
8 50

Pos Ang 220° Dist 9" Magn 4.0-7.6

7 30 Cloudy

Left Phot R Power 270

351.2 < tighten dis

7 36 19.2 28.0
176.9 16.2
193.1 clds. 44.2 - 3.55
355.3
13.6 18.3 - 3.53
170.9 25.9
196.8 44.2 - 3.50
Right Mean = - 3.52
260.8
287.8 27.0
85.6 18.6
104.2 45.6 - 3.48
265.0
7 53 289.2 - 3.50
89 ~~109.6~~ 80.6 15.2
7 44.5 110.1 29.5
44.7 - 3.52

Oct 22, 1901

Dis Jup III Phot R Wells-
Campbell Rec.

BAC 1182 Ballou 103
8 03 59.~~9~~ 8 8 01 0.0
8 04 59.8 8 02 0.0

18 32 −23.4
22 22
3 50

8 15 Clouds thick Jup Invisible

Jup invisible at time of eclipse and
about on the horizon. Clouds thick

Phot R Σ 471 Wells
135 27
Power ~~270~~ ~~3~~ 50 + 39.6
22 50
5 00
7 00

Pos Ang. N 0° Distance 8″ Magns 3.1 & 8.3

Oct. 2~~5~~2, 1901

Σ 471 W Obs. see prev. page

Right & Below
205.7
8 54.0 214.1 Clds. 8.4
24.0 11.1
35.1 19.5 — 5.35

204.0 — 5.32
215.6 11.6
25.1 8.5
33.6 20.1 — 5.28

Left & above
115.1 Mean = 5.24
123.6 8.5
293.1 12.4
305.5 20.9 — 5.19

112.6 — 5.16
9 04.0 125.6 13.0
295.4 8.6
~~303.8~~ 21.6 — 5.12
304.0

Oct 22, 1901

9 15 allcloudy

U Cephei 20 Obs

Phot T 24 50 +81.1

23 40

1 10

10 50

9 32 clouds thick.

9 45 " "

9 50 ~~thinning in north~~

10 00 clds.

Left & above

161.6 < readings

10 02 15 263.0 101.4 ✓

344.6 90.2 ✓

74.8 191.6 ✓

168.0 168.4 ✓ +0.22 ✓

04 40 255.3 87.3 ✓ +0.18 ✓

340.0 102.0 ✓

82.0 189.3 ✓ +0.14 ✓

72.8 Right & Below 172.7 ✓ Mean = +0.06 ✓

06 30 168.4 95.6 ✓

262.8 80.1 ✓

342.9 175.7 ✓ −0.08 ✓

81.2

10 07 55 162.2 81.0 ✓ −0.06 ✓

21 20 253.3 5680.6266 ✓ 97.0 ✓

10 05 20 350.3 5680.3180 ✓ 178.0 −0.0x ✓

5 − 3 00 0.3086 ✓

15 02 20 G. M. T.

Oct 23, 1901

II

R. & B.

75.2
10 09 38 167.0 91.8 ✓
261.4 80.6
3430 172.4 ✓ − 0.14 ✓

−0.12 ✓
80.0
11 17 162.2 82.2 ✓
255.7 920 ✓
347.7 174.2 ✓ −0.11 ✓

L & a. Mean = − 0.06 ✓

341.2
13 10 78.3 97.1 ✓
170.3 80.5 ✓
250.8 177.6 −0.05 ✓

348.8 −0.01 ✓
10 15 10 72.3 83.5 ✓
9 15 161.5 980
10 12 19 259.5 181.5 ✓
5 −3 0 178.5 ✓ + 0.03 ✓
15 9 19 G. M. T.
5680.6314
5680.3180
+0.3134

Oct. 22, 1901

III

Left & Above
342.8
10 17 25 77.8 95.0 ✓
170.0 79.2 ✓
249.2 174.2 −0.11 ✓

✓
350.8 −0.08
19 05 71.3 80.5 ✓
162.8 97.2 ✓
260.0 177.7 −0.04 ✓

R & B. Mean = −0.21 ✓

259.5
21 15 346.8 86.3 ✓
81.9 76.9 ✓
158.8 163.2 ✓ −0.32 ✓

✓
264.5 −0.34
10 22 35 339.1 746 ✓
80 20 76.8 86.7 ✓
10 20 05 163.5 161.3 ✓ −0.36 ✓
5 − 3 00
15 17 05 G. M. Time
5680.6369
5680.3180
0.3189

Oct 22, 1901.

IV

R.O.B.
258.8
10 24 30 344.2 85.4
85.6 72.5
158.1 157.9 — 0.42

—0.42
264.5
26 25 338.8 74.3
79.8 84.2
164.0 158.5 — 0.41

L.O.A. Mean = — 0.36
164.8
29 10 255.8 91.0
355.5 73.3
68.8 164.3 —0.30

—0.31
174.4
10 30 10 248.7 74.3
11 0 15 344.2 88.8
10 27 34 76.0 163.1 —0.32
5 – 3 00
15 24 34 Gr. M. T.
5680.6421
5680.3180
+0.3241

Oct. 22, 1901.

V

L & A.

165.0

10 31 55 255.3 90.3 ✓✓

354.2 74.0 ✓ ✓

68.2 164.3 − 0.30

175.3 −0.36

33 35 246.7 71.4 ✓

348.~~0~~2 87.0 ✓ ✓

75.2 158.4 ✓ − 0.41

R & B Mean = −0.52 ✓

81.1

35 50 152.8 71.7 ✓✓

267.6 70.8 ✓

338.4 142.5 − 0.72 ✓

88.4 − 0.68 ✓

10 37 40 155.9 67.5 ✓

19 00 262.1 78.9 ✓

10 34 45 341.0 146.4 ✓ − 0.65

5 − 3 00 Hour Ang = + 0:12

15 31 45 G.M.T. Sid Time = 1:03

5680.6471 Decl = + 81.1

5680.3180 Pos. Ang. = 114.7 Ver A.

0.3291 S pr. Wheel = 6.5 B + 7.3 C

Oct 22, 1901

Σ 12' w Obs

Phot R 4 54 +26.5
1 09
3 45
8 15

Pos Ang 160° Dist 1.3 ± Magns 6.8 – 7.8

Above
4.0 < bl dis

11 03 54.7 50.7
180.9 55.2
236.1 105.9 – 1.51

1.6 – 1.41
56.8 55.2
178.7 59.4
238.1 114.6 – 1.31

Below Mean = – 1.42

271.8
328.3 56.5
91.3 54.5
145.8 111.0 – 1.39

272.3
11 12 326.6 54.3 – 1.44
94.0 52.5
146.5 106.8 – 1.49

11 15

L. P. P.

Oct 23, 1901 (Wednesday)

B&C 1182 Ball 23

7 07 03.2 7 04 55

73.1901 S Scuti 20 Obs

Phot T. 18 51 −13.0

21 31

2 40

7 20 Clouds

Above

355.6 < ~~comp * dis~~

7 30 15 64.3 69.7

170.0 faint 81.9

251.9 151.6 +

Clouds

~~351.1~~ . 168.8

~~38 22~~ ~~71.0 Cld~~ 72 . ~~79.9~~

4 2 30 . stars gone

7 45 Below clouds thick

8 30 Region too low moonlight too strong & too much cloud to do anything more on this variable project above

R Ursæ Min 20 Obs

Phot T. 16 34 +72.9

22 54

6 20

8 45 too cloudy

Oct 23, 1901.

Phot R/H   Σ δ′   w-Obs

$\overset{27}{3}$ 40   +23.7

23 05

4 35

7 25

8 52 Cloudy

Pos Ang 290° Dist 2″ ± Magns. 3.8 – 7.0

9 02 Clouds

Left & Below

1971 clds < brighter dis.

9 06.4 222.2   25.1

16.9   24.3

41.2 clds.   49.4   – 3.30

196.0

222.3 clds   26.3   – 3.25

16.6   25.5

42.1 clds,   51.8 – 3.20

R & Above clds.   mean = – 3.28

105.2

130.0   24.8

285.7   24.9

310.6   49.7 –   3.28

106.2   – 3.31

9 15.4 130.7   24.5

21.8 286.5   23.0

9 10.9 309.5   47.5 –   3.34

5 30

407.9 Gr M T

Oct 23, 1901

Σ 452 20 Obs
Phot R. 27 3 41 +10.8
2 3 41
4 00
8 00

Pos Ang 70° Dist 10" Magns 4.2 - 9.5

9 28 Abandoned too faint in moonlight & cloud

Σ 470 20 Obs.
27 3 48 -3.3
Phot R 23 48
4 00
8 00

Pos Ang 35.0° Dist 6" Magns 4.0 - 6.0

9 35 Clouds
~~[illegible]~~
275.5 clouds
X9 44 322.3 clds 46.8
88.5 57.2
145.7 clds 104.0 - 1.56

270.2 - 1.50
9 54 328.0 clds 57.8
91.4 51.7
143.1 clds 109.5 - 1.43

Below
see next page.

Oct. 23 1901
Clouds thick prev. page
Below

183.1 clds
10 14 233.5 50.4
357.3 62.8
60.1 113.2 −1.34

178.4 −1.38
10 17 240.8 62.4
4.3 48.1
249.° 52.4 110.5 −1.41
10 2.2
Mean = −1.44

Phot R. Σ 422 wOb
3 31 +0.2
0. 41
2 50
9 10

Pos Ang 260° Dist 6" Magn 6.2–8.3

see next page for
measurements

Oct 23 1901
Σ 422 Wells
see previous page
Phot R.
abandoned
Double = 41 Arietis – Wells
Phot R. 2 44 +26.9
0 50
6 54
10 06
Pos. Ang 240° Dist. 2'± Magns. 5.0 – 9.0
~~Left~~ B.
203.6 (to dis
10 40.4 217.2 13.6
25.4 10.7
36.1 24.3 – 4.86
204.5
216.2 11.7 – 4.86
23.8 12.6
36.4 24.3 4.86
Right A. Mean = – 4.90
113.5 12.5
126.0 11.3
294.8 23.8 – 4.91
306.1
– 4.94
115.4
10 48.0 125.7 10.3
10 44.2 293.6 13.0
5 3.0 306.6 23.3 – 4.96
15 41.2 G. M. Time
5681.

Oct. 23, 1901

o Ceti 20 Ob.

Phot W 2 12 −3.6
1 12
11 00

abandoned

Σ 28′ 20 Ob
Phot R. 2 28 ~~+3.6.~~
1 08 +5.2
1 20
Pos Ang } 0°
Dist } ″
10 40

Magns. 5.0 − 9.6

Right Libdis

22.3
10 57.4 32.8 10.5
197.8 16.3
214.1 26.8

21.4
36.0 ~~12.6~~
400.
2

Left

mean

see next page

Oct 23, 1901

Right. Σ 281 - w.Clbr

200.5 see prev. page

11 04.0 215.0 14.5

21.2 17.8

34.0 27.3 - 4.61

201.1 - 4.60

214.6 13.5

20.7 14.0

34.7 27.5 - 4.59

Left. Mean = - 4.73

110.3

124.2 13.9

290.9 10.9

301.8 24.8 - 4.82

113.1 clds - 4.86

11 10.0 124.0 10.9

290.9 13.1

11 07.0 304.0 24.0 - 4.89

5 - 3.0

16 04.0 G.M.

L.P.P.

11 15

Oct 24 1901 (Thursday)

B&C Reset B&C 1182 Ball 103
7 01 26.0 7 02 05

7 05 Rather cloudy

X 73.1901 Santi no Obs
Phot T. 18 51 −13.0
21 31
2 40

7 10 Clouds ~~thick~~

3.7 above
7 42 10 57.9 54.2
180.2 63.3
243.5 117.5 + 1.25
358.6

45 05 60.9 62.3 + 1.25
182.4 55.3
237.7 117.6 + 125
Below Mean = + 1.32
273.9

49 30 326.2 52.3
92.4 57.8
150.2 110.1 + 1.42

272.2 + 1.38
7 52 50 331.8 59.6
29 35 95.2 53.8
7 47 24 149.0 113.4 + 1.34
5 +0 34
12 47 58 Gr.M.T.
5682.5333
5682.4820
+0.0513

Oct. 24, 1901

II

Below

276.8
7 56 20 326.9 50.1
89.6 62.7
152.3 112.8 + 1.35

268.6 +1.34
7 59 55 329.8 61.2
94.9 53.2
148.1 114.4 + 1.32

Above Mean = +1.28

182.1
8 03 40 240.1 58.0
359.9 60.5
60.4 118.5 + 1.23

180.0 +1.22
8 06 55 242.8 62.8
5 50 1.4 56.2
8 01 28 57.6 119.0 + 1.21
5 + 0 34 Hour Angle + 4.28
13 02 02 Sid time 23.13
5682.5431 Decl = −12.6
5682.4820 Pos Ang = 279.2 Ver B
+0.0611 5 ft wheel 5.5 B & 6.5 — a

Oct. 24, 1901.

Clouds

8 50 Impossible to get anything more
on this variable.

T Aquarii W.Obs

20 40 −5.5

23 25

2 45

X prec. var 3 secs & 2′.8 N of it.

R Urs. min. phot. W.Obs

Above 16 34 +72.9

270.0 23 34

9 18.2 331.7 <comp★dia 7 00 61.7

82.9 74.5

157.4 136.2 + 0.85

262.8

336.8 74.0 +0.84

88.9 63.3

152.2 137.3 +0.83

Below mean = +0.68

176.5

246.0 69.5

351.3 81.8

73.1 151.3 +0.55

~~168.2~~

168.2 +0.53

9 24.8 251.4 83.2

430 358.3 70.0

9 21.5

5 +0.6 68.3 153.2 +0.57

14 22.1 Gr. Mn. Time.

5682.599

Oct. 24, 1901

Same Again

Below

178.3

9 26.6 245.5 67.2 ✓

351.9 77.5 ✓

69.4 144.7 ✓ +0.62 ✓

171.9 +0.60 ✓

251.2 79.3

357.5 70.0 ✓

67.5 149.3 +0.59

Above Mean = +0.72 ✓

88.8

153.6 64.8 ✓

265.7 72.1 ✓ ✓

337.8 136.9 +0.84

87.3

9 33.4 152.5 65.2 ✓ +0.83 ✓

9 30.0 × 266.2 72.4 ✓ ✓

5 +0.6 338.6 137.6 ✓ +0.82

14 30.6 × Gr. M. Time. Mean = ~~+0.70~~

5682647 × ✓ +0.70

Hour Ang = +7: 3.3

Dec = +72.7

S'id Time = 0:05

Pos Ang = 319.0 Ver B

S.M. Wheel = 2.5 B & 3.5 C

Oct. 24, 1901

41 Arietis W Obs

Phot R   2 44   +26.9
0 14
2 30
9 30

Pos Ang 230° Dist 2'± Magns 4.0 – 9.0

Right A.

288.6 < fr. dis

10 10 302.0   13.4
110.0   10.0
120.0   23.4 – 4.95

288.6   – 4.93
300.2   11.6
108.5   12.2
120.7   23.8 – 4.91

Left B.   Mean = – 4.95

197.6
211.0   13.4
219.5   10.4
29.9   23.8 – 4.91

199.5   – 4.97
10 18 210.3   10.8
10 14 18.7   11.7
30.4   22.5 – 5.03

Oct. 24 1901

Σ 281   w Ob

Phot R 2 28 +5.2

0 48

1 40

10 20

Pos Ang 70° Dist 7" Magns 5.0 - 9.6

Left

110.1 ∠ br. dis

10 31~~0~~ 122.1 12.0

288.6 12.4

301.0 24.4 -4.86 ✓

110.1 -4.96 ✓

121.0 10.9

289.5 11.3

300.8 22.2 -5.06 ✓

Right Mean = -4.94

19.1

31.0 11.9

199.8 11.5

211.3 23.4 -4.95

19.4 -4.92

10 40 31.8 12.4

10 355 199.8 11.7

210.5 24.1 -4.88

Oct 24, 1901

Phot. ω Fornacis 20 Obs.
2 30 -28.7
1 15
1 15
10 45

Pos Ang 250° Dist 11" Magns 4.8 - 8.0
~~Blank~~ Right
278.7 < br. dis
10 55 310.2 31.5
96.2 33.9
130.1 65.4 - 2.66
"
276.5 - 266
309.1 32.6
96.7 33.3
130.0 65.9 - 265
Left Mean = - 260
188.4
221.3 32.9
3.8 36.7
40.5 69.7 - 2.52

183.9 - 2.54
11 03 219.9 36.0
10 59 5.3 32.7
38.0 68.7 - 2.55

Oct 24, 1901

o Ceti 2w 66

Phot 2w 2 12 -3.6

1 32

0 40

11 20

Right

181.0 < radii

11 11.4 225.3 44.3 ✓

3.9 39.5 ✓

43.4 83.8 ✓ -2.08 ✓

184.1

224.5 40.4 ✓ -2.08 ✓

1.4 43.5 ✓

44.9 83.9 ✓ -2.08 ✓

Left mean = -2.08 ✓

91.0

135.2 44.2 ✓

272.3 40.0 ✓

312.3 84.2 ✓ -2.07 ✓

93.6

11 17.0 133.8 40.2 ✓ -2.09 ✓

11 14.2 [x] 274.7 42.7 ✓

5 +0.6 314.4 82.9 -2.11 ✓

16 14.8 [x] Gr. M. Time

5682.677 [x]

Oct. 24, 1901

Same Again

Left

91.9
10 18.2 135.0 43.1
271.8 41.3
313.1 84.4 — 2.07

92.2 — 2.10
132.0 39.8
270.9 42.1
313.0 81.9 — 2.14

Right Mean = — 2.08

91.7
42.7 41.0
180.7 43.1
223.8 84.1 — 2.08

— 2.06
91
11 23.0 41.5 41.4
41.2 177.4 44.0
11 20.6 221.4 85.4 — 2.04
5 + 0.6 Final Mean = — 2.08

16 21.2 G. M. Time Hour Angle = — 0.21 East
5682.681 Decl. — 3.5 919
Sid Time 1:51 Magn = 7.11
11 30 Pos Ang. 41.4

L. P. P.

Oct 25, 1901 Friday

B D C 1182 Ball 03

X 5 50 45.8 5 5 00.0

73.1901 Pente

Phot T. 18 51 -13.0 20 Obs

20 22

1 31

Above

359.2 < cont * dis

6 04 05 61.7 62.5

147.2 69.3

246.5 131.8 + 0.94

355.8

07 05 64.4 68.6 +0.93

179.5 64.2

243.7 132.8 +0.92

Below Mean = +1.02

272.5

09 20 329.9 57.4

86.8 66.8

153.6 124.2 + 1.10

266.2 +1.11

6 11 30 334.1 67.9

32 00 94.4 55.6

6 08 00 150.0 123.5 + 1.12

5 +0 14

11 08 14 Gr. M. Time

5683.4640

5683.4360

~~5680.2639~~

0.0280

Oct. 25, 1901

II

Below

275.3

6 1445 330.2 54.9

88.9 66.1

1550 121.0 + 1.17

270.6 + 1.24

1640 333.0 62.4

95.1 52.1

147.2 114.5 + 1.31

Above Mean = + 1.11

181.3

19 35 243.2 61.9

353.4 69.9

63.3 131.8 + 0.94

176.2 +0.98

6 21 45 246.2 70.0

32 45 0.0 58.4

6 18 11 58.4 128.4 + 1.01

5+0 14

11 18 25

5683.4711

5683.4360

0.0351

Oct. 25, 1901

III

Above

180.8

6 31 15 241.9 61.1

357.1 66.1

63.2 127.2 +1.04

175.4 +1.04

33 ~~30~~ 50 243.4 68.0

1.1 59.7

60.8 127.7 +1.03

Below Mean = +1.24

95.7

37 20 146.7 51.0

272.9 56.4

329.3 107.4 +1.48

93.7 +1.45

6 41 05 151.0 57.3

24 20 274.7 52.4

6 36 05 327.1 109.7 +1.42

5 +14

11 36 19 Gr. M. Time.

5683.4835

5683.4360

0.0475

Oct 25, 1901

IV

Below

94.6
6 46 35 145.1 50.5 ✓
27~~3~~4.1 56.6 ✓
330.7 107.1 ✓ +1.49 ✓

91.~~X~~8 +1.46 ✓
49 15 150.8 59.0 ✓✓
275.9 51.0 ✓
326.9 110.0 ✓ +1.42 ✓

Above Mean = +1.27 ✓

3.2
5 3 25 69.2 66.0 ✓✓
178.2 63.3 ✓
241.5 129.3 +1.01 ✓

357.0 +1.08 ✓
6 56 00 63.5 66.5 ✓✓
5 15 183.0 55.2
6 51 18 238.2 121.7 ✓ +1.16 ✓
5 18

11 51 32 Gr. m Time
5683.4940 ×
5683.4360 ×
0.0580 ×

Oct 25, 1901

V

Above

2.9
6 59 35 60.2 57.3
178.2 63.5
241.7 120.8 + 1.18

357.8 + 1.13
7 01 50 63.2 65.4
179.6 59.8
239.4 125.2 + 1.08

Below mean = + 1.24
276.2
05 00 327.2 51.0
90.9 60.7
151.6 111.7 + 1.38

271.3 + 1.36
7.07 00 330.9 59.6
253 25 95.2 56.4
7 03 21 149.6 116.0 + 1.33
5 14
12 03 35 Gr. M. True.

5683.5025
5683.4360
0.0665

Oct. 25 1901

VI

Below

273.6

7 15 25 328.3 — 54.7

88.7 — 65.7

154.6 — 120.4 + 1.18

268.0 — + 1.18

18 50 333.5 — 65.5

94.2 — 55.3

149.5 — 120.8 + 1.18

Above — Mean = + 1.06

178.9

22 35 249.5 — 61.6

352.2 — 71.0

63.2 — 132.6 + 0.92

~~63.2~~ — + 0.93

~~7 24 20~~ 175.6

~~7 24 54~~ 246.4 — 70.8

359.4 — 61.3

1 45 60.7 — 132.1 + 0.94

7 20 26

5 +14

12 20 00 Gr. M. Time

5683.5144

5683.4360

0.0784

Oct 25, 1901

VII

above

180.0

7 36 35 244.1 64.1

356.0 68.7

64.7 132.8 +0.92

175.0 +0.86

41 50 246.2 71.2

356.0 67.2

63.2 138.4 +0.81

Below Mean = +0.90

90.3

45 30 151.4 61.1

264.6 68.2

332.8 129.3 + 0.99

+0.94

85.1

7 47 50 155.5 70.4

11 45 270.7 63.8

7 42 56 334.5 134.2 +0.89

5 14

~~17 42 45~~

12 43 10 Gr M Time.

56835300

56834360

0.0940

Oct 25, 1901

VIIII

Below

91.4
7 51 15 153.5 62.1
266.3 71.9
338.2 134.0 +0.90

85.6 +0.90
7 54 40 156.8 71.2
270.4 62.4
332.8 133.6 +0.90

Above Mean = + 0.76 ~~0.47~~
357.1
7 58 30 64.3 67.2
171.2 78.1
249.3 145.3 +0.67

351.6 +0.62
8 01 40 68.1 76.5
26 05 175.0 73.4
7 56 31 248.4 149.9 +0.58
5 14

12 56 45 Gr. M. T.
5683.5395
5683.4360
0.1035

Sid Time = 22:0.3
Hour Angle = 4:6
Dec = ~~2.0~~ -12.6
Pos Angle = 280.7 Vert B
Spr. Wheel = 55 B~~0~~ 6.6 C

Oct 25, 1901

78.1901 Cygni 20 Obs

Phot T. 20 18 +42 25
22 55
240 I

Left & Above

173.1 < comp + obs
8 47 30 247.4 74.3
0.0 63.4
63.4 137.7 +0.82

179.1 +0.82
44 30 ~~246~~ 241.2 62.1
352.0 74.9
66.9 137.0 +0.83

Right & Below mean = +0.93

87.8
48 20 153.2 65.4
272.3 60.6
332.9 126.0 +1.06

92.3 +1.04
8 51 00 151.3 59.0
26 20 266.3 69.1
8 46 35 335.4 128.1 +1.02
5 +0 14
13 46 49 Gr. M. Time
5683.5742
5680.2639
3.3103

Oct 25, 1901

II

R & B

86.4

8 54 55 152.2 65.8

270.8 59.8

330.6 125.6 +1.07

92.2 +1.08

8 58 35 149.5 57.3

266.5 67.9

334.4 125.2 +1.08

L & Q. mean = +0.99

353.6

9 02 30 6~~1~~8.6 75.0

181.2 60.3

241.5 135.3 +0.87

1.5 +0.90

9 05 25 61.5 60.0

1 25 174.5 72.8

9 00 21 247.3 132.8 +0.92

5 0 14

14 00 35 Gr. M. Time

5683.5837

5680.2639

3.3198

Oct 25, 1901

III

~~Left &~~ Above

355.2
9 08 10 65.7 70.5
181.8 59.6
241.4 130.1 +0.98

1.4 +1.04
10 45 61.1 54.7
176.8 69.8
246.6 124.5 +~~2~~ 1.10

Right & Below Mean = +1.12
269.3
15 00 335.1 65.8
92.3 56.5
148.8 122.3 +1.14

276.6 +1.21
9 17 15 330.9 54.3
5 1 10 90.6 61.8
9 12 48 152.4 116.1 +1.28
5 40 14
14 13 02 G. McTrine
5683.5924
5680.2639
3.3285

Oct 25, 1901

9 25 clouds IV

ROB

270.3

9 32 30 332.6 62.3

95.5 53.1

148.6 115.4 +1.29

+1.30

276.1

35 25 329.6 53.5

90.2 61.2

151.4 Reject 114.7 +1.31

L+a. clds.

181.4 stars gone

47 10 21. clds see next page

Oct. 25, 1901

L & a

IV

~~179.0~~

~~10 11 10~~ ~~24~~ clouds

180.8

10 2~~4~~ 00 241.~~4~~0 clds 60.2

~~44~~ 6.8 48.8

55.6 109.0 + 1.44

185.2 + 1.40

29 50 234.2 49.0

357.3 63.K Clouds.

60.7 112.4 + 1.36

R & B. clds. mean = + 1.66

95.8

31 15 145.8 clds 50.0

281.6 40.0

321.6 90.0 + 1.91

101.5 + 1.92

10 36 25 140.2 38.7

1 30 276.5 50.2

10 30 22 326.7 88.9 + 1.94

5 + 14 Clouds.

15 30 36

5683.6462

5680.2639

3.3823

H. a. = + 4,51

Dec = + 4.28

S. T. = 1:10

Pos ang = 228.8 R & B

Sp. Wheel 7.5 B 8 8.1 C

Oct. 25, 1901

/

RTB

98.4
10 44 30 144.2 clouds
Stopped by clouds

11 30

Ledgered, Plotted Posted.

much troubled by clouds in 4th group especially latter part.
Group $\frac{2}{3}$ weight.

Oct 26, 1901 (Saturday)

BDC 1182 Ball 103

7 02 41.3 7 04 00

73.1901 Scuti W.O.B.

Phot T. 18 51 -13.0

21 41

2 50

Clouds

~~Above~~

~~357.2 clouds~~

~~7 28 00 63.9 67.7~~

~~169.3 78.6~~

~~247.9 146.3 +~~

~~clouds~~

~~351.1 +~~

~~28 55 71.4 80.3~~

~~172.1 75.7~~

~~247.8 clouds 156.0 +~~

Below clouds Mean =

Reject above; impossible to finish group on account of clouds and bright moonlight.

Clouds increasing and above settings
8 00 somewhat uncertain

M.R. 441 W.O.B.

Phot R. 3 31 +62.8

27

22 41

4 50

7 10

Oct. 26 1901
M P 441

Above & Left
256.4 < var dis
8 15.0 305.6 49.2 ✓
73.2 38.0 ✓
131.2 107.2 ✓ − 1.48 ✓

253.7 −1.50 ✓
309.1 55.4 ✓
75.2 50.4 ✓
125.6 105.8 ✓ − 1.52 ✓

Right & Below Mean = − 1.54 ✓
166.8
214.8 48.0 ✓
342.8 53.0
37.8 103.0 − 1.58 ✓

162.6 − 1.58 ✓
8 21.8 215.8 53.2 ✓
8 28.4* 344.4 49.7 ✓
5 +1.3 341 102.9 ✓ − 1.59 ✓
13 19.7 Gr M Time
5684. ~~597~~*
5.56

Oct. 26, 1901
Same again.

Right & Below
165.6
8 24.8 215.8 50.2✓
343.7 54.5✓
38.2 104.7✓ * −1.54✓

162.3 −1.53✓
218.6 56.3✓
346.1 49.4✓
35.5 105.7✓ * −1.52✓

Left & Above Mean = −1.54✓
74.8
125.3 50.5✓
253.9 53.9✓
307.8 104.4✓ −1.55✓

71.5 ~~#~~
8 32.0 126.9 55.4✓ −1.54✓
8 28.4 255.2 49.0✓
5 +1.3 304.2 105.4✓ 1.53✓
13 ~~27.1~~ G. M. Time - Final Mean = 1.54x
29.7x
5684 562x

Sid Time 23:11
Decl = +62.2
Hour Angle = 4:19 East
Pos Angle 32.1 Ver B

Oct. 26, 1901

Σ 53'   20 6h

Phot R   20 32 +31.1
23 32
3 00

Pos Ang 155° Dist 3' ± Magns 5.8 – 6.4

~~Left~~
~~327.8~~
~~9 02.4 69.9 < brighter dis~~
~~152.4   91.9~~
~~244.3~~

~~339.6~~
~~60.5   80.9~~
~~146.0   100.5~~
~~246.5   181.4~~

Right   A.
336.4
9 06.0 58.1   81.7
150.1   92.3
242.4   174.0   * – 0.11

333.8   – 0.16
9 08.4 61.6   87.8
155.9   80.7
236.6   168.5   – 0.22

Left   B.
246.8
9 10.0 32~~7~~6.7   79.9
62.3   ~~88.2~~
150.5   168.1   – 0.22
rev

Oct 26, 1901
See prev. page

240.9 -0.20
9 12.0 331.8 90.9
65.9 80.2
146.1 171.1 -0.17
Final mean = -0.18

Σ 2726 20 Obs.

Phot R
20 40 + 30.2
23 50 Pos Ang 65°
Below ~~2 50~~ ~~2~~ Dist 6"
14.5 lr. dis. 3 10 Magns 4.0 - 9.2
9 22.4 21.5 7.0
191.4 10.7
202.1 17.7 - 5.56
11.3
24.2 12.9 - 5.26
191.9 10.5
202.4 23.4 - 4.9
Above Mean = - 5.34
282.6
292.1 9.5
102.1 10.3
112.4 19.8 - 5.31

281.8
9 32.6 291.5 9.7 - 5.41
102.6 8.4
111.0 18.1 - 5.51

Oct. 26, 1901

Σ 2943 20-Ok.

Phot R. 22 41 −15.0

24 14

1 33

Por Ang 120° Dist 30″ Magns 5.9 − 9.2

Left

95.4 < h. dis

9 45.6 119.2 23.8

275.7 18.8

294.5 42.6 — 3.63

95.2 — 3.71

113.0 17.8

272.8 21.7

294.5 39.5 — 3.79

Right Mean = − 3.71

3.7

24.2 20.5

184.3 19.8

204.1 40.3 — 3.75

4.0 — 3.71

9 50.2 22.8 18.8

181.8 23.0

204.8 41.8 — 3.67

Oct. 26, 1901

Phot T   78.1901 Cygni W Ob
2018 +42.5
2428
410

Left & Above
350.1 < comp * dis
10 04 30   70.4   -79.3
174.3   76.8
251.1   156.1   +0.45

+0.47

357.1
07 50   66.3   74.2
171.3   80.1
251.4   154.3   +0.49
Right & Below   mean = +0.54
81.3
12 45   162.6   81.3
268.2   67.0
335.2   148.3   +0.61

84.1   +0.62
10 16 10   154.5   70.4
41 15   264.0   77.1
10 10 19   341.1   147.5   +0.62
5 +1 19
15 11 38 G. M. Time.
3684.6330

Oct 26, 1901

Same Again.

Right & Below

81.2
10 19 45 159.1 — 77.9
269.7 — 66.6
336.3 — 144.5 + 0.68

86.5 — +0.64
" 30 0 155.2 — 68.7
263.2 — 80.2
343.4 — 148.9 +0.60

Left & Above — mean = +0.57
348.4
26 45 43.0 — 84.6
176.1 — 69.7
245.8 — 154.3 +0.49

356.5 — +0.50
10 31 30 67.0 — 70.5
171.8 — 82.4
1.01 00 254.2 — 152.9 +0.52
10 25 15
5 41 19 — Sid Time = 1:12
15 26 34 Gr. M. Time. Hour Angle = +4:54 West
5684.6435 — Decl. = +42.8
Pos Ang = 48.4 Vert B
Sprock Wheel = 67 a, 75 B, 81 C

Oct. 26, 1901.

o Ceti — W. Obs.

Phot. W.

2 12 — 3.6
1 18

0 54
11 06

Right

35 4.6 < var. dis

10 52.8 — 39.3 — 44.7
176.4 — 40.4
216.8 — 85.1 — 2.05

355.7
36.4 — 40.7 — -2.08
174.9 — 42.5
217.4 — 83.2 — 2.10

Mean = - 2.08

Left

263.9
309.2 — 45.3
85.7 — 41.9
127.6 — 87.2 — 1.99

265.3 — .208

11 00.8 — 302.4 — 37.1
10 56.8 — 85.0 — 43.4
5 +1.3 — 128.4 — 80.5 — 2.18

15 58.1 Gr. M. T.

5684.665

Oct. 26, 1901
Same again.

Left
264.0
11 03.4 308.3 44.3
84.9 41.3
126.2 84.6 − 2.06

265.3 −2.06
307.5 42.2
84.0 42.5
127.5 84.7 − 2.06

Mean = −2.01

Right
174.8
219.1 44.3
355.2 43.0
38.2 87.3 − 1.99

172.5 −1.96
11 10.0 218.0 45.5
13.4
11 06.7 352.9 44.2
5 41.3 37.1 89.7 − 1.92
16 08.0 G. M. Time. Final Mean = −2.04
5684.672 Moon rather near the region; and at the full.
Field very bright - obs. rather diff. 9.19
magn = 7.15
Sid Time 1:51
Hour Ang −0:22 East
Decl. −3.7
Pos Ang ~~116~~ 162.0 Ver B.
11 20 Ledgered, Plotted, Posted.

Oct. 27, 1901 (Sunday)

Reset B & C 1182 & also Bond 3451

Oct 28, 1901 ~~Sun~~ Monday

B&C 1182 Ballou 103
7 05 44.5 7 06 00
Phot T. 73.1901 wOb
18 51 −13°
21 56
3 05

Above
349.6
7 28 10 71.2 81.6
165.8 90.0
245.8 171.6 + 0.16

346.2
31 40 74.2 88.0 + 0.18
170.1 81.4
251.5 169.4 + 0.20
Below Mean = + 0.32
265.2
35 42 339.2 74.0
82.0 79.9
161.9 153.9 + 0.50

259.6 + 0.47
7 40 16 341.0 81.4
14 64 48 83.4 75.4
7 36 42 159.2 156.8 + 0.44
5 40 42
12 36 58 Gr. M. Time
5686.5257
5686.2980
+0.2277

Oct. 28, 1901.

II

Below
265.2
7 43 15 337.7 72.5
82.1 81.2
163.3 153.7 +0.50

+0.51
260.3
46 00 344.0 83.7
85.1 69.1
154.2 152.8 +0.52

Below Mean = +0.34
167.7
57
50 10 242.0 84.3
346.2 91.9
78.1 176.2 +0.07

166.3 +0.16
7 55 35 251.6 85.3
19 5 00 350.3 81.9
7 48 45 72.2 167.2 + 0.24
5 +0 16 Sid Time = 22.55
12 49 01 G.M.T. Hour Angle = +4.02 West
5686.5340 Decl = -12.6
5686.2980 Pos Ang = 279.4 [illegible]
0.2360 Sp. Wheel = 55 B 86.5 C

Oct. 28, 1901.

χ Cygni Phot. T.

wOb.- 19 45 +32.6
23 15 9.5 cap in cap
3 30

above
1745 gradis.
8 43.4 248.5 ~~8~~74.0 ✓
347.8 85.2 ✓
43.0 159.2 ✓ − 0.40 ✓

166.8 − 0.38 ✓
254.1 87.3 ✓
352.9 73.8 ✓
66.7 161.1 ✓ − 0.36 ✓
Below Mean = − 0.51 ✓
85.6
153.6 68.0 ✓
261.8 80.3 ✓
342.1 148.3 ✓ − 0.61 ✓

82.5 − 0.64 ✓
8 52.2 159.7 77.2 ✓
95.6 268.1 68.7 ✓
8 47.8 336.8 145.9 ✓ − 0.66 ✓
5 +0.3
13 48.1 Gr.M.T.
5686.575*

Oct. 28, 1901

Same Again

Below
86.3
8 54.6 155.4 69.1 ✓
262.4 80.0
342.4 149.1 — 0.59 ✓
≠
82.4 — 0.63
161.7 79.3
270.0 65.8
335.8 145.1 — 0.67
Above Mean = — 0.57
355.4
68.5 73.1
169.0 83.7
252.7 156.8 — 0.44

349.1 — 0.44
9 03.4 72.8 83.7
9.80 174.8 73.9
11
8 59.0+ 248.7 157.6 — 0.43
5 + 0.3 Sid Time = 10:00
13 59.3 Gr. M.T. Hour angle = + 4:11 West
5686.583+ Decl = + 32.4
Pos Ang = 23.0 Vel B
Spr Wheel = 40 a + 55 A

Oct 28, 1901

Σ 2726 W Ch

Phot ~~R~~ ~~[illegible]~~ 20 40 + 30.2

R 24 08

3 28

Pos Ang 70° Dist 6" Magns 4.0 – 9.0

Below

~~188.6~~

192.2

9 3~~8~~5 ~~188.6~~ 198.4 16.2

7.8 13.8

21.6 20.0 – 5.29

189.1 – 5.2~~8~~1

201.4 12.3

10.4 9.2

191.6 21.5 – 2.13

Above

101.1 Mean = 5.09

109.4 8.3

277.4 13.4

290.8 21.7 – 5.11

97.1 4.97

9 46 111.8 14.7

280.3 10.0

290.3 24.7 – 4.83

Seeing very unsteady; images boiling & overlapping each other; but as much care as possible exercised.

Oct 28, 1901

ε Sagittae wlld

Phot R 19 33 +16 2

24 73

5 10

Pos Ang 85° Dist 1.5′± Magns 4.8 - 7.9

Above

272.7 Lbr. dis

10 03.0 307.2 34.3

93.1 30.7

123.8 65.0 - 2.68

272.2 - 2.66

301.8 29.6

88.0 36.2

124.2 65.8 - 2.65

Below

Mean = - 2.62

178.8

215.3 36.5

0.0 30.9

30.9 67.4 - 2.59

180.2 - 2.58

10 09.8 209.2 29.0

10 06.4 354.8 39.4

34.2 68.4 - 2.56

Oct 28, 1901
Σ 2943 w Obs
Phot R

22 40 – 15
24 58
2 18

Pos Ang 120° Dist 3.0″ magn 5.8 – 9.7

Below
185.3
10 26.0 203.8 : 18.5
3.0 18.3
21.3 : 36.8 — 3.95

183.4 — 4.02
201.2 : 17.8
2.8 16.6
19.4 34.4 – 4.10
Above Mean = – 3.96
92.3
110.4 : 18.1
269.7 20.4
290.1 38.5 – 3.85

90.8 – 3.89
10 34.0 109.2 18.4
269.6 18.7
288.3 37.1 – 3.93

Oct 28, 1901

ω Fornacis w Obs

phot R. 2 30 -28.7

1 30

1 00

11 00

Pos Ang 250° Dist 11" Magns 4.8 - 8.0

Left < Br. obs

349.7

10 45.0 26.8 37.1

170.7 35.0

205.7 72.1 - 2.44

350.2 - 2.50

23.~~4~~8 33.6

171.7 35.2

206.9 68.8 - 2.55

Right Mean = - 2.58

262.0

292.8 30.8

81.~~8~~4 34.8

116.2 65.6 - 2.66

261.2 - 2.67

10 53.0 294.7 33.5

10 49. 80.9 31.5

112.4 65.0 - 2.68

Oct. 28, 1901

Phot W o Ceti W Obs

2 12 -3.6
1 42
0 30
11 30

Left
66.5 Grandis
11 02.2 113.8 47.3
247.8 43.8
291.6 91.1 -

67.9
111.9 44.0
246.9 46.0
292.9 90.0 -
mean = -
Right
335.7
~~22.x~~ 23.1 47.x
156.1
2 -

Reject above, impossible to finish on account of very bad seeing & proximity
11 N of full moon

Ledgered
Posted
Plotted

~~Oct. 28, 1901.~~

~~Same Again.~~

Oct. 29. 1901 (Tuesday)

BDC 1182 Ball 103

7 02 01.5 7 02 00.0

7.3.1901 Saute 20 Obs

Phot T. 18 51 −13.0

22 59

3 08

7 10 Cloudy

7 55 Cloudy

8 25 cloudy

~~Above~~

~~349.6~~

8 30 40 ~~70.6~~

~~169.0~~

257.5 Clouds

Although sky now a little clearer in this region, region is so low ~~together~~ ~~with little~~ fog & moon light

I impossible to make for the setting

8 45 Repeat above setting

18 35 +38 0

26 20

3 45

Oct 29, 1901.

Phot T. 78.1901 Aquilae 2w Ob
20 18 +42.5
24 38
4 20

Left & Above

353.2 < comp. & dia
9 58 05 68.0 74.8 ✓
168.7 85.3 ✓
254.0 159.1 ✓ +0.40 ✓

348.7
10 ~~#~~ 01 00 73.7 85.0 ✓ +0.36 ✓
~~16~~172.0 77.5 ✓
249.5 162.5 ✓ +0.33 ✓
Right & Below mean = +0.56 ✓
268.0
10 05 00 335.8 67.8 ✓
84.0 74.4
158.4 142.2 ✓ +0.73 ✓

264.7 +0.76 ✓
10 07 25 338.4 73.7 ✓
251 30 88.1 65.7 ✓
10 02 52× 155.8 139.4 +0.79
5 ~~X~~ 0 2
15 02 50× Gr. M. Time.
5687.6270+
5687.1653
+0.4617+

Oct. 29, 1901

II

Right & Below

267.7
10 10 05 334.0 66.3
82.7 78.3
160.0 144.6 +0.68

264.0 +0.69
13 15 340.5 76.5
87.3 67.2
154.5 143.7 +0.70

Left & above Mean = +0.54
167.4
17 05 253.8 86.4
353.4 75.9
69.3 162.4 +0.33

174.81 +0.38
10 20 10 249.9 75.8
60 35 349.4 81.7
10 15 09× 71.1 157.5 +0.45
5 - 0 2
15 15 07× Gr. M.T. Sid time 1:15
5687.6355× Hour ang = 4.52 West
5687.1653× Decl. = +42.8
+0.4702× Pos Ang = 48.4 Ver B
S/m. Wheel = 6.5 A; 7.5 B; 8.1 C

Oct 29, 1901

Phot 20 Σ 29 43 20 Ok
22 41 −15.0
25 21
2 40

Pos ang 120° dif 30" Magn 5.8 − 9.2

Left
2569
10 40 276.5 < bi dis 19.6
76.7 16.7
95.4 36.3 − 3.98

256.5 − 3.94
275.3 18.8
75.4 19.0
94.4 37.8 − 3.89

Right mean = − 3.91
1656
1847 191
345.3 18.9
364.2 38.0 − − 3.88

1645 − 3.88
10 48 1831 18.6
342.~~4~~7 19.6
362.3 38.2 − 3.87

Oct. 29 1901

o Ceti nulls

2 12 -36
1 42
0 30
11 30

Right
144.8 Grandis
10 58.0 193.8 49.0
327.2 44.0
11.2 93.0 - 1.83
146.3
192.7 46.4 - 1.82
325.2 47.3
812.5 93.7 - 1.82
Left
56.1 - 1.87
101.9 45.8
236.4 44.7
281.1 90.5 - 1.90

56.3 - 1.92
11 06.4 100.3 44.0
12 4.4 235.3 44.6
11 02.2 279.9 88.6 - 1.95
5 - 0.0
16 02.2 G. M. Time.
5687.668

Oct 29, 1901

Same Again

Left
56.0
11 09.0 190.2 442
234.3 445
278.8 88.7 — 195

53.2 —1.96
97.2 440
233.2 436
276.8 87.6 — 1.98

Right mean = — 1.88
323.4
368.4 45.0
142.2 46.3
188.5 91.3 = 1.88

1.81

319.8
11 16.0 369.4 49.6
25.0 141.0 470
11 12.5 188.0 96.6 — 174
5 -0.0
16 12.5 Gr. M. Time ~~8.1.~~ — 2 Final mean = —1.88
5687.676 9.19
magn = 7.31
11 23 ~~Pos ang~~ 279.5 Var B

Lsd. Plott. Post.

Oct. 30, 1901 (Wednesday)

BAC 1182 Ball 103

652 17.5 65205

Phot T. 73.1901 Sante 20 Obs

18 51 −13.0

21 57

300

Above

170.6

7 14 05 251.5 80.9 ✓

345.5 88.4 ✓

73.9 169.3 ✓ + 0.20 ✓

164.3 +0.22 ✓

16 28 254.1 89.8 ✓

351.2 77.9 ✓

69.1 167.7 ✓ +0.23 ✓

Below Mean = +0.34 ✓

86.0

20 15 158.1 72.1 ✓

260.9 81.0 ✓

341.9 153.1 ✓ +0.51 ✓

80.5 +0.47 ✓

7 24 57 162.9 82.4 ✓

7 54 55 262.6 75.2 ✓

7 18 56 337.8 157.6 ✓ +0.43 ✓

5 −0 18

12 18 38 Grant.

5688.5129

5688.2060

0.3069

Oct. 30, 1901.

Below

84.3

7 30 10 158.3   74.0

259.7   82.0

341.7   156.0 +0.46

81.0   +0.46

32 40 163.0   82.0

264.8   73.4

338.2   155.4 +0.47

Above   Mean = +0.35

350.0

37 5 3 69.7   79.7

168.1

254.2   86.1

165.8 +0.27

347.3   +0.24

7 42 12 73.4   86.1

22 55 169.2   83.0

7 35 ~~59~~ 44 252.2   169.1 +0.20

5 −0 18

12 35 26 Gr. M. Time. Sid Time 22:47

5688.5246   Hour Ang. 3:53 West

5688.2060   Decl −12.7

+0.3186   Pos Ang. 279.3 Ver B

S/p Wheel. 5.5 & 6.5 − B & C

Oct 30, 1901.

Phot T. Nova Persei. W Ob.

27 24 ~~+34.6~~ +45.6
23 26 9.5 cap used
4 00
8 00

{Note: — Stopped after finishing 7 3.1901 [illegible] to jack down & readjust cannon ball:}

Above
268.3 <Nova ds
44.0 334.9 66.6 ✓
78.2 84.9 ✓
163.1 151.5 ✓ −0.55 ✓
258.6
344.0 85.6 −0.58 ✓
87.2 62.6 ✓
149.8 148.2 ✓ −0.61 ✓
Below mean = −0.49 ✓
176.2
246.8 70.6
347.5 87.7 ✓
75.2 158.3 ✓ −0.41 ✓

165.6 −0.40 ✓
8 52.6 254.8 89.2 ✓
96.6 356.3 70.6 ✓
8 38.3 66.9 159.8 ✓ −0.38 ✓
5 −0.3
13 38.0 Gr. M. Time
5688.~~60~~ 568

Oct 30, 1901

Same Again

Below

176.0
8 55.0 246.2 70.0
344.8 92.2
77.0 162.2 − 0.34

165.1
257.6 91.5 − 0.34
357.1 70.3
67.4 161.8 − 0.35

Above Mean = ~~−0.4~~ −0.44
80.3
153.3 67.0
257.4 87.6
345.0 154.6 − 0.49

77.3 −0.53
9 03.6 162.6 85.3 ~~85.3~~ 0.46
118.6 267.9 65.0 ~~66.7~~ 7.25
8 59.3 ~~334.9~~ 150.3 ~~151.9~~ − 0.57 Magn = 6.79
5 − 0.3 332.9 Sid. Time = 0:07
13 59.0 G. M. Time Hour ang = − 3.19 East
5688.583 Decl. = +42.2
Pos Ang = 75.9 var B
Sp. Wheel = 0.6 a 1.5 B 2.1 C

Oct 30, 1901

Phot T. 78.1901 Cygni 20 Obs
28 18 +42.5
24 13
~~1 05~~
Left & Above 3 55
351.2 < comp * dis
9 31 58 70.8 79.6
174.4 75.8
250.2 155.4 + 0.47

351.1 + 0.47
36 20 67.9 76.8
172.5 78.8
251.3 155.6 + 0.47
Right & Below mean = 0.48
265.4
41 00 350.2 84.8
85.0 71.0
156.0 155.8 + 0.46

265.9 + 0.50
9 43 47 338.4 72.5
81.5 78.6
160.1 151.1 + 0.55

Oct. 30, 1901.

Same Again

Right & Below

261.7
9 47 10 342.4 80.7
85.5 70.0
155.5 150.7 + 0.56

265.2 + 0.54
50 55 338.2 73.0
81.3 80.0
161.3 153.0 + 0.52

Left & Above Mean = + 0.52

175.2
56 35 247.2 72.0
348.2 84.2
72.4 156.2 + 0.45

171.5 + 0.50
10 00 50 252.6 81.1
357.2 70.3
67.5 151.4 + 0.55

Oct 30, 1901.

~~III~~

Left & above

173.4

10 10 00 249.0 75.6

350.8 78.2

69.0 153.8 +0.50

175.2 +0.54

13 00 249.8 74.6

352.2 75.9

68.1 150.5 +0.57

Right & Below Mean = +0.58

263.5

17 40 341.7 78.2

85.8 69.2

155.0 147.4 +0.63

266.8 +0.61

10 20 20 338.2 71.4

21 00 81.7 77.6

10 15 15 159.3 149.0 +0.59

5 – 0 18

15 14 57 G. M. Time.

5688.6354

5687.1653

+1.4701

Oct. 30, 1901

IV

R & B

262.2 ✓
10 26 00 336.9 74.7
86.9 71.3 ✗
158.2 146.0 ✗ + 0.65 ✓

266.8 + 0.62 ✓
28 30 338.7 71.9 ✓
83.2 76.7 ✓
159.9 148.6 ✓ + 0.60 ✓

L & a. mean + 0.54 ✓

176.2
33 00 248.6 72.4 ✓
349.2 83.4 ✓
72.6 155.8 + 0.46 ✓

+ 0.46 ✓

168.7
10 36 50 252.7 84.0 ✓
124 20 356.7 71.2 ✓ ✓
10 31 05 ✗ 67.9 155.2 ✓ + 0.47
5 - 0 18 ✗
15 30 47
5688.6464 ✗
5687.1653
+1.4811

Reject first 2 groups on this variable. Observations in these groups extremely difficult & distorted. Evidently troubled by haze as images were much better

Oct. 30, 1901.

seen in last two groups. Moon bright.

S. T. = 1:3
H. A. = 5.13 West
Decl = +42.9
Pos Ang. = 49.0 Ver B
Spr. Wheel = 6.5 a & 7.5 B

Phot 2w Σ 12 II 2w obs

23 7 – 9.8
25 44
2 35

Pos Ang 320°
Dist 0.8 ±
Magnum 46 – 8.7
Right

<6z. dia.

2392

10 56 250.0

58.0

68.9

10.8
10.9
21.7 — 5.11

237.8

249.0

56.7

68.2

— 5.06

11.2
11.4
22.6 — 5.02

Mean — 4.98

Left

146.9

158.8

326.3

338.7

11.9
12.4
24.3 — 4.86

146.5 — 4.91

11. 02 158.3

326.8

338.3

11.8
11.5
23.3 — 4.96

Ed. Plott. Post.

Oct. 31, 1901 (Thursday)

B θC 1182 B 103
7 6 52 *36.5 6 52 00
53 36.4 6 53 00
Phot ~~T.~~ 73.1901 Scuti W Obs.
18 51–130
22 58
34 07
7 2 2 Abandoned on account of cloud & haze

Reap. Jup I pt W Obs,
Campbell Rec.

7 ~~40~~ clouds.
20

7 40 20 Jup seen in ordinary eyepiece but Sat III visi.
42 00 ditto
42 54 Sat III barely vis Sat I not seen.
43 56 clouds thicker III not seen.
44 42 Sat III at times barely vis.
Sat I not seen.
45 53 Haze thicker III not seen & Jup dim:

47 16 Sat III not seen
48 13 " " " "
49 08 " " " "
49 48 " " " " & Sat I not seen. Jup almost invisible

Oct 31, 1901

Jup low and much thick haze & cloud in this region. It is now about 10 minutes after theoretical time of reappearance of Sat I and there is no trace of it or Sat ~~III~~ in large telescope with ordinary eyepiece

No trace of Sat I seen throughout.

Impossible to do anything with
8 04 δ Scuti Var. on account of low alt
and thick haze

V Cygni. W Obs.

20 36 +47 38
~~3~~ − 3 − 4

20 33 +47 34
23 23

2 50

20 43 +47.3
23 33

2 50

8 47 s β^2 var, var $\frac{2}{x}$ +

Oct. 31, 1901.

R Delphini w Obs

20 10 + 8.5

23 50

3 40

9 09 s 3 var 1 t

78.1901 w Obs

Phot T. 20 18 + 42.5

24 08

3 50

L θ A.

350.2 <comp * dis

9 21 55 69.7 79.5

171.5 78.4

249.9 157.9 + 0.42

353.4 + 0.44

24 43 66.8 73.4

171.8 82.2

254.0 155.6 + 047

R θ B. mean = + 056

~~339.5~~

265.3

30 42 339.5 74.2

87.5 67.6

155.1 141.8 + 0.74

267.7

9 34 30 338.3 706 + 0.68

111 50 82.6 764

9 27 58 159.0 147.0 + 063

5 - 0 36 5689.5607

5689.1653

14 27 22 Gr. M. Time 2.3954

Oct. 31, 1901

II

ROB
262.7
9 39 20 341.0 78.3
86.2 69.0
155.2 147.3 +0.63

266.8 +0.65
43 40 334.9 68.1
86.1 77.1
163.2 145.2 +0.67

mean – 0.54

Lda.
174.2
50 20 247.2 73.0
349.2 82.0
71.2 155.0 +0.37

166.5
+0.42
9 53 25 2 52.2 85.7
18 6 45 352.3 74.9
9 46 41 67.2 160.6 +0.48
5 – 0 36
14 46 05 Gr. M. T. Sid Time ~~11~~ 0 57
5689.5737 Hour Ang – 4 33
5687.1653 Decl. = +4 29
2.4084 Pos Ang = 49.1 Ver B.
Sp-Wheel = 6.5 a & 7.5 B

Oil done

Oct 31, 1901

Phot T. R Hor. Min - Wells
16 34 +72.9
25 04
8 30

Above
265.6 <cont + dis
10 16.5 335.6 70.0
88.4 64.0
152.4 134.0 + 0.90

269.2 + 086
332.4 63.2
83.6 74.5
158.1 137.7 + 082
Below mean = + 083
174.0
248.5 74.5
1.4 62.7
64.1 137.2 + 083

178.1 + 080
10 28.0 242.8 64.7
44.5 353.2 75.9
10 22.2* 69.1 140.6 + 076
5 - 0.6
15 21.6+ G.M.T.
5689.640+

Oct. 31, 1901

Same Again

Below
172.1
10 30.6 250.0 -77.9 :
~~[illegible]~~ 0.7 63.4
64.1 141.3 + 0.75
181.2
242.1 60.9 0.82
354.1 73.5
67.6 134.4 + 0.89

Above Mean = +0.86
851
156~~[illegible]~~2 71.1
2~~[illegible]~~9.6 61.2 :
33.08 132.3 + 0.93
~~[illegible]~~

+0.91
90.5
10 41.0 153.0 62.5
71.6 264.3 71.9
10 35.8× 336.2 134.4 + 0.89
5 -0.6× Final mean = +0.84
15 35.2+ Gr. M. Time
5689.649×
St. T. 1.45
H a. +9.08 W
Decl +72.8
P. a. 319.0 Ver B
Stp wheel 2.5 B & 3.5 C

Oct 31, 1901

I Ceti W.Ch

Phot W 2 12 -3.6

1 52

0 20

Right 11 40

121.2

11 04.0 170.6 494

302.5 47.5

350.0 96.9 - 1.73

121.4

170.0 48.6 - 1.72

301.0 49.5

350.5 98.1 - 1.70

~~Left~~ mean = - 1.72

33.1

79.6 46.5

212.2 49.9

262.1 96.4 - 1.75

-1.72

29.7

11 09.6 81.7 52.0

13.6 213.0 46.6

11 06.8× 259.6 98.6 - 1.69

5 - 0.6

16 06.2× Gr.M.T.

5689.671×

Oct 31 1901.
Same Again

Left

33.5
11 12.0 79.4 45.9
211.5 49.8
261.3 95.7 — 1.76

32.2 —1.80
79.4 47.2
214.0 45.6
259.6 92.8 — 1.84

Mean : —1.73

Right
302.5
349.3 46.8
118.3 53.0
171.3 99.8 — 1.66

299.1 —1.66
11 19.0 351.5 52.4
31.0 122.0 47.9
11 15.5 169.9 100.3 —1.65
5 — 0.6
16 14.9 Gr. M.T.
5689.677

St. T. 2:20
H. A. +0.04 West
Decl. —3.5
P. A. 41.8 Ver B

1.72
9.19
7.47

11 25

Ledgered, Plotted, Posted.

Nov. 1. 1901. (Friday)

Williams' Variable. Plat I. Wolf,

7A, 1901 Cygni.

Cloudy early part of evening

20 18 +4 25
23 26
+3 8

L. & A.

~~Right below~~

9.4
8 51 10 48.2 38.8 ✓
193.2 36.9 ✓
230.1 75.7 ✓ + 2 32 ✓

122 +2.34 ✓
8 55 30 48.7 36.5 ✓
193.1 38.2 ✓
231.3 74.7 ✓ + 2.36 ✓

~~Right~~ Below mean = +2.44 ✓

283.8
9 00 50 318.4 34.6 ✓
102.5 37.6 ✓
140.1 72.2 ✓ + 2.43 ✓

283.1 +2.54 ✓
9 03 30 317.6 34.5 ✓ ✓
231 00 105.0 30.9 ✓
8 57 45 135.9 65.4 ✓ +2.66 ✓
5 - 1 3
13 56 42

5690.5810
5687.1653
3.4157 or - 0.0350

Nov. 1, 1901

II

~~ℓ~~ o B.

285.3

9 ~~10~~ 11 00 317.9   32.6 ✓

107.3   30.0 ✓

137.3   62.6 ✓ + 2.76 ✓

+ 2.84 ✓

286.2

14 50 317.4   31.2 ✓

106.4   27.4 ✓

133.8   58.6 ✓ + 2.91 ✓

ℓ o a   mean = 2.87 ✓

~~1[illegible]~~ N. 2

20 15 ~~46.4~~   31.2 ✓

198.6   25.6 ✓

224.2   56.8 ✓ + 2.98 ✓

161   + 2.90 ✓

9 24 00 44.8   28.7 ✓

7005 195.8   32.5 ✓

9 17 31 228.3   61.2 ✓ + 2.81 ✓

5 - 1 3

14 16 28 G.M.T.

5690.5948

5687.1653

+3.4295

-0.0212

Nov. 1, 1901.

III

K & A.

13.7 ✓
9 31 10 45.6 31.9 ✓
198.2 24.2
222.4 56.1 ✓ + 3.01 ✓

18.4 ✓ + 3.09 ✓
35 20 43.8 25.4
198.3 27.0 ✓ ✓
225.3 52.4 ✓ + 3.17

R & B. Mean = + 3.16 ✓

288.5 ✓
39 02 313.6 25.1
106.8 26.8 ✓
133.6 51.9 ✓ + 3.19 ✓

289.3 ✓
9 41 43 315.2 25.9 ✓ + 3.24
109.2 23.5 ✓
14 7 13 132.7 49.4 ✓ + 3.30 ✓

9 36 49
5 -1 3

14 35 46 G. M. T.

5690.6082
5687.1653

+3.4429
-0.0078

Nov. 1, 1901

IV

R&B

286.6

9 45 42 311.2 24.6

108.7 26.6

135.3 51.2 + 3.22

286.8

50 08 315.1 28.3 +3.16

107.6 25.4

133.0 53.7 +3.11

Mean = +3.12

L&A.

196.3

56 00 226.3 30.0

19.1 23.6

42.7 53.6 + 3.11

199.1 +3.08

9 59 58 224.2 25.1

21 40 16.4 30.8

9 52 55 46.4 55.1 +3.05

5 -1 3

14 51 52 G.M.T.

5690.6193

5690.6160

0.0033

Nov. 1, 1901

V

L & a.

195.2

10 07 12 226.3 31.1

18.3 25.0

43.3 56.1 + 3.01

198.8 + 2.99

12 21 223.2 24.4

13.9 32.8

46.7 57.2 + 2.97

R & B. Mean = + 2.94

106.6

17 31 135.9 29.3

286.4 28.4

314.8 57.7 + 2.95

106.2 2.88

10 21 28 135.9 29.7

58 32 285.7 31.5

10 14 38 317.2 61.2 + 2.81

5 – 1 3

15 13 35 Gr. M.T.

5690.6344

5690.6160

+0.0184

Nov. 1, 1901

VI

RVB.
104.8
10 30 00 138.8 34.0 ✓
286.4 29.8 ✓
316.2 63.8 ✓ + 272

105.6 ✓ + 2.64
32 32 137.3 31.7
283.6 36.3 ✓
319.9 68.0 ✓ + 2.57 ✓

LOA. Mean = +2.46 ✓
10.7
37.10 49.3 38.6 ✓
192.4 2 36.3 ✓ ✓
228.5 74.9 ✓ + 2.35
✓
2.28
12.0
10 42 58 49.1 37.1 ✓
22 40 189.9 42.3 ✓ ✓
10 35 40 232.2 79.4 ✓ + 2.21
5-1 3
15 34 37 G.M.T.
5690.6490+
5690.6160+
0.0330+

Nov. 1, 1901

VII

L & a.

9.8

10 50 25 51.1 41.3 ✓

190.2 40.2 ✓

230.4 81.5 ✓ + 2.15 ✓

10.2 + 2.14 ✓

~~9~~ 10 54 35 49.1 38.9 ✓

190.7 43.8 ✓

234.5 82.7 ✓ + 2.12 ✓

R & B mean = + 2.12 ✓

279.5

~~9~~ 10 58 12 323.8 44.3 ✓

101.0 38.4 ✓

139.~~8~~4 82.7 ✓ + 2.12 ✓

281.3 + 2.10 ✓

~~10~~ 11 01 53 372.2 40.9 ✓

25 05 99.2 42.6 ✓

10 56 16 141.8 83.5 ✓ + 2.09 ✓

5 −1 3

15 55 13 Gr. M. T.

3690.6633 ×

3690.6160 ×

0.0473

Nov. 1, 1901

~~VIII~~

R.T.B.

279.3
11 06 37 323.7 44.4
99.3 43.2
142.5 87.6 + 1.98

281.2
09 19 321.5 40.4 +1.98
95.2
142.7 47.5
87.9 +1.97

L.T.A. Mean +1.89
9.7
13 43 53.1 43.4
186.6 49.2
235.8 92.6 + 1.84

3.1
11 17 16 56.0 52.9 +1.80
46 55 189.2 43.3
11 11 44 232.5 96.2 +1.75
5 -1 3
16 10 41 G. M. T.
5690.6741+
5690.6160+
0.0581+

Nov. 1, 1901

IX

LHa

9.3

11 22 50 55.1 — 45.8

184.3 — 55.1

239.4 — 100.9 + 1.63

+1.63

3~~8~~7

25 31 58.0 — 54.3

188.5 — 46.7

235.2 — 101.0 + 1.63

RHB. — Mean +1.64

275.8

29 12 328.6 — 52.8

195.5 — 47.9

143.4 — 100.7 + 1.64

+1.65

279.0

11 32 40 324.1 — 45.1

30 13 — 93 ~~4~~ — 54.7

11 27 33 +147.9 — 99.8 +1.66

5 − 1 3

16 26 30+ Gr. M. T.

5690.6850+

5690.6160

0.0690+

Nov. 1, 1901

X

ROB.

275.6

11 35 50 327.0 — 51.4 ✓

98.4 — 45.3 ✓

143.7 — 96.7 +1.74 ✓

276.9 +1.64 ✓

38 32 326.3 — 49.4 ✓

93.4 — 55.0 ✓

148.4 — 104.4 +1.55 ✓

LOA. Mean = +1.53 ✓

182.3

43 32 239.5 — 57.2 ✓

1.3 — 52.9 ✓

54.2 — 110.1 ✓ +1.42 ✓

+1.42 ✓

186.0

11 46 30 239.4 — 53.4 ✓

4 24 2.3 — 56.7 ✓

11 41 06 59.0 — 110.1 ✓ +1.42

5 – 1 3

16 40 03 Gr. M. Time

5690.6944

5690.6160

0.0784

Nov. 1, 1901

~~XV~~ XI

L&O.

181.0
11 52 42 240.6 59.6
3.0 54.8
57.8 114.4 + 1.32

+1.32

183.9
11 56 00 239.4 55.5
1.0 59.4
60.4 114.9 + 1.31

RTB. Mean = + 1.29

91.0
11 59 15 148.6 57.6
273.7 56.5
330.2 114.1 + 1.32

92.6
149.9 57.3 + 1.26
12 01 33 271.7 61.9
29 30 336.6 119.2 + 1.21
11 57 22
5 -1 3
16 56 19 Gr. M.T.
5690.7058
5690.6160
0.0898
12 10

S. T. = 3:4
H. a. = 6:42
Decl = +43.1
Pos ang = 228.7 Ver B
Sp. wheel = 67 a & 75 B & 81 C

Nov-1, 1905

B&C1182
12 13 03.0

Ball 103
12 12 05

Posted, Ledgered, Plotted.