

12

15

BBz

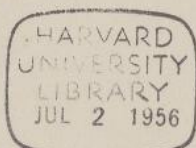
Mar. 1926

KG-11365,629

19:

19.0 slow at 1:06

KG 11365.629



Sat Mar 13 - 1926

15" E. E. P.C. Obs

EST.
per.

7 30
4A

S U Tauri est 13.1
slightly brighter than 13.2 *

R U Cephei Phot \bar{r}
mean of 6 exp's

01088 X

73A

630 W

1 with 2

17 X dis

P.A. 290

8105130

225.6

275.8

50.5

89.2

50.2

38.7

88.9

1.94

2.14

236.3

271.3

55.2

95.0

35.0

39.8

74.8

2.31

P.A. 110

312.4

266.8

138.4

194.8

54.4

56.4

110.8

1.40

(See next page)

1.71

2

March 13, 1926.

1 mil 2, 17 + dis (Cont).

	312.0			1.71
	370.0	58.0		
	127.3	<u>63.9</u>		1.28
8:09	191.2	121.9	1.15	

13-07-15
4588.547

8:14 PA 10

2 mil 3 2 > + dis

225.15			
277.8	52.3		
42.0	<u>64.2</u>		
106.2	116.5	1.27	

1.18

224.8			
286.2	63.4		
43.7	<u>61.8</u>		
105.5	125.2	1.08	

PA 0

309.8			
382.2	72.4		
128.2	<u>64.6</u>		
192.8	137.6	0.83	

~~1.51~~

1.02

~~0.91~~

13-16-00

4588.553

8:18

304.2			
377.8	73.6		
131.8	<u>61.0</u>		
192.8	134.6	0.88	

0.84

March 13, 1926.

3

Smith 4 47 + dis.

P.A. 330

8:22

38.0

104.0

66.0

279.6

60.0

278.6

126.6

1.06

1.18

40.8

105.2

64.4

224.8

50.7

275.5

115.1

1.30

P.A. 150

0.93

128.2

198.4

70.2

302.8

70.4

373.2

140.6

0.76

0.68

136.0

201.3

71.3

303.3

77.5

8:26

380.8

148.8

0.60

13-24-00

4588.558

6

4

March 13, 1926.

2 with b. 27 + dis.

P. G. 20

8: 27.5

32.6

108.8

76.2

212.0

72.6

284.6

148.8

0.60

0.64

33.0

106.2

73.2

213.6

71.6

285.2

144.8

0.68

P. G. 20

0.41

117.6

203.3

85.7

301.3

83.5

384.8

149.2

0.20

0.18

118.8

203.6

84.8

301.6

87.2

388.8

172.0

0.15

8: 30

13-28-45

~~13-28-32~~

4588.562

6

March 13, 1924.

5

2 with d. 27 + dis.

8:34.5	P.A. 340		
	303.0		
	376.4	73.4	
	123.0	<u>76.6</u>	
	199.6	150.2	0.57
			0.62

	310.2		
	³⁸ 23.4	73.2	
	126.6	<u>71.4</u>	
	198.0	144.4	0.68

	P.A. 160		0.76
	220.2		
	287.2	67.0	
	42.0	<u>70.6</u>	
	112.0	137.0	0.83
			0.90

	217.6		
	284.8	67.2	
	40.4	<u>63.6</u>	
8:38	103.4	130.2	0.97

13-36-15
~~13-34-027~~
⁵⁶⁷
 4588.565

6

March 13, 1926

3

Smith RU Cylin. V7 + dis.

P.A. 180

8:40.5

119.8

200.6

80.8

311.2

64.0

375.2

144.8

0.68

0.66

129.0

202.2

73.2

303.2

73.0

376.2

146.2

0.65

P.A. 0

0.85

277.1

282.2

64.7

40.8

67.4

108.2

132.1

0.94

1.04

221.2

274.8

53.6

32.2

68.4

100.6

122.0

1.15

8:43

~~8:38~~

13:41:45

~~13:39:02~~

4588.569571

b

Mar. 13/1926

R U Aft. Sec. estimates in
5" finder.

8:45

~~8:45~~(2) 3d 2a 3b ~~3c~~ 3d 3f 2g.

Z Camelopard

9 32 ~~07~~ 08147

3

d 4, 2e

seg. on 1800 ph. chart
by your Ab. Notation.

Star for W. H. Lyster

+16° 26' 58"

14 24 +17.0

9 20

5 - 00

The desired star readily identified but too
distant from neighboring B. D. stars to
be compared with Polaris. T.

A rough estimate of mag. would
indicate that it was nearly 8th element
magnitude, which would be rather difficult
for measurement in Plot. T. provided there
were comparison stars near enough. The
star in question has a faint companion
far distant South following.

Tues Apr 13/1926

RU Cephei 010585 2005
 1018
 9 10 W 1045
 free per

Meas. of Comp. sequence

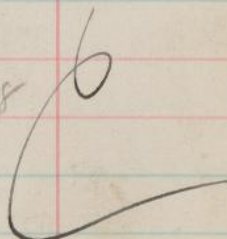
Chair rope needs repairing!! Photo 71
 2 with 3 27 + diff

9:14	122.8		
	194.8	72.0	
	306.2	69.3	
	375.5	142.3	0.73

	126.8		0.72
	198.8	72.0	
	305.4	71.3	
	376.7	143.3	0.71

	Index 180		1.10
	220.8		
	280.7	59.9	
	43.7	51.4	
	95.1	111.3	1.39

14-16-00	226.2		
4619.594	274.8	48.6	
	40.8	54.6	
9:18	95.4	103.2	1.58

1.48 

Apr 3/922

2 with to 27 & dis.
P.A. 200

9:20

211.6

289.6

38.5

105.8

78.0

67.3

145.3

0.67

0.94

219.2

280.2

42.8

100.8

61.0

58.0

119.0

1.21

Pa. 20

285.8

389.0

120.8

202.2

103.2

81.4

184.6

173.4 - 009

Mean = +0.50

294.8

380.0

115.8

200.4

85.2

84.6

169.8

+0.05

+0.19

9:24

14-22-00

4619.599

6

Apr. 13, 1926.

2 with d 27 + dis

P.A. 330

10:02

304.7

384.4

120.0

200.0

79.7

80.0

159.7

0.39

297.5

384.0

124.8

201.6

86.5

76.8

163.3

0.36

0.32

P.A. 150

42.0

104.8

225.5

276.9

62.8

51.4

114.2

1.32

0.78

39.4

106.0

~~223.8~~

253.8

281.8

66.6

~~28.0~~580

124.6

1.20

1.09

10:06

15:04:00

4619.628

C

apr. 13, 1924

3-114 4 47 + dis

10:13

P.A. 150

304.4

378.4

120.6

194.8

74.0

74.2

148.2

0.61

0.69

306.4

376.2

122.2

192.6

69.8

70.4

140.2

0.77

P.A. 330

46.7

96.8

221.6

280.0

50.1

58.4

108.5

1.45

1.40

41.0

100.8

220.9

274.3

59.8

53.4

113.2

1.34

10:16

15-14-30

4619.635

6

12

apr, 13, 1926

3 with γ γ > + dis.

P.A. 0

10:18

46.6

96.8

226.4

279.4

50.2

53.0

103.2

1.58

1.46

39.0

98.0

225.9

280.9

59.0

55.0

114.0

1.33

P.A. 180

1.22

126.4

189.4

305.2

373.8

63.0

68.6

131.6

0.95

0.98

127.4

195.5

310.5

10:22

370.8

48.1

60.3

128.4

1.01

15-20-00

4619.639

C

Thurs. Apr 15, 1926

L.C. Alb. 15" E. Reg. P.C. Per
u Capher

005381

Phot T.

10 05
9 12 W

I

P. a. 200

84 comp v dis

8:20:15

43.8

93.8

50.0

226.9

44.8

271.7

94.8

1.79

2.06

57.8

89.0

37.2

8:21:55

230.0
278.7

38.0

~~8:21:30~~

268.0

75.2

2.34

P. a. 20

8:22:40

126.0

190.0

64.0

307.2

67.6

14.8

131.6

0.91

8.41
- 1.49

6.92

13-22-12

123.6

4621.557

190.8

67.2

305.8

67.5

8:24:00

13.3

134.7

0.88

0.92

6

Apr. 15, 1926.
U cephei.

54 Comp v dis

8:59:00	P.A. 20			1.22
	136.8			
	187.8	51.0		
	309.4	<u>67.8</u>		
	377.2	118.8		
			0.94	
9:00:30	128.4			
	194.4	66.0		
	300.8	<u>79.0</u>		
	379.8	145.0	0.67	
9:01:05	P.A. 200			84'
	224.0	51.8		<u>-1.4.0</u>
	275.8	<u>44.2</u>		7.01
	48.8	96.0	1.76	
	93.0			
9:02:10			1.87	
	230.4	43.6		
	274.0	<u>44.0</u>		
	52.8	87.6	1.98	
14:00:42	96.8			
4621.584				6

Apr. 15, 1916
U Cephei

84 comp γ dis

10:02:10 P.A. 220

10:01:45 ~~93.8~~

231.0

47.0

278.0

51.8

45.1

98.7

96.8

1.69

1.98

232.0

270.8

38.8

51.2

38.2

10:03:30

89.4

77.0

2.28

846

-1.68

6.73

P.A. 20

10:04:30

310.4

366.8

56.4

132.4

60.4

192.8

116.8

1.26

1.38

313.6

366.4

52.8

135.0

53.7

10:05:35

188.7

106.5

1.50

15-03-56

4621.628

6

Sat May 1/1926

Loup 15" E & - FITC Rec

EST.	Ball 103	Ci Watch
7 30 00	7 30 40.0	

 \therefore Ci Watch = 40.2 fast

7	W Ceph	005381	Phot J.
8- 57:30	35.8	PA 20	Comp X ds
	107.4	616	
	217.7	65.7	
	283.4	137.3	+083

348		
1084	736	076
2171	708	
2879	1444	+069

PA 200		mean	84.1
1335			093
1953	618		93.4
3078	634		
3712	1252	+108	

132.4		
1928	604	110
3084	634	
3718	1238	+111

8, 15.2
12-59-41
40

12-59-01

4637.541

May 1-1926

8-7:5

Pa 200

1302

2017

3072

3721

715

649

1364

085

II

1333

1933

3038

3704

600

666

1266

095

105

$$\text{Mean} = \frac{841}{92.3} = 082$$

Pa 200

2165

2865

379

1068

700

689

1389

080

2071

2847

368

1074

776

706

1482

070

8-10 07

061

13-08-36

40

13-07-56

4637.547

6

May 1 - 1926

PA 20

~~8-14:09 217.2~~~~8-14:32 281.4~~

8-14:55 330

1088

2170

2890

38.2

1080

2140

2844

758

720

1478

+062

698

704

1402

+077

PA 200

125.0

1988

3080

3798

738

718

1456

$$\begin{array}{r} 841 \\ \text{mean} + 068 \\ \hline 909 \end{array}$$

+066

1304

1930

3062

3790

726

728

1454

+066

+067

13-18-58

40

13-18-18

4637.554

6

May 1 - 1926

82645

$$\begin{array}{r} 200 \\ \hline 1282 \\ 1958 \\ 3080 \\ 3778 \end{array}$$

$$\begin{array}{r} 676 \\ 698 \\ \hline 137.4 \end{array}$$

083

$$\begin{array}{r} 1260 \\ 1970 \\ 3022 \\ 3752 \end{array}$$

$$\begin{array}{r} 710 \\ 730 \\ \hline 1440 \end{array}$$

076

069

$$\begin{array}{r} 20 \\ \hline 215.9 \\ 2828 \\ 370 \\ 1038 \end{array}$$

$$\begin{array}{r} 669 \\ 668 \\ \hline 133.7 \end{array}$$

Mean = $\frac{841}{0.78}$
919

090.

$$\begin{array}{r} 2194 \\ 2877 \\ 322 \end{array}$$

$$\begin{array}{r} 683 \\ 766 \\ \hline 144.9 \end{array}$$

079

8 3040 1088

144.9

068

13-28-42

40

13-28-02

4637.561

May 1 - 1926.

8-37.01 $\begin{array}{r} 20. \\ 219.2 \\ 2823 \\ 36.2 \\ 1068 \\ \hline 133.7 \end{array}$ $\begin{array}{r} 631 \\ 706 \\ \hline 1337 \end{array}$ +090

V

$\begin{array}{r} 2208 \\ 2880 \\ 360 \\ 1102 \\ \hline 141.4 \end{array}$ $\begin{array}{r} 672 \\ 742 \\ \hline 1414 \end{array}$ +082
+075

$\begin{array}{r} 200. \\ 9.8 \\ 1330 \\ 2004 \\ 3108 \\ 3958 \\ \hline 1324 \end{array}$ $\begin{array}{r} 674 \\ 650 \\ \hline 1324 \end{array}$ +093
Mean $\begin{array}{r} 841 \\ 077 \\ 918 \end{array}$

$\begin{array}{r} 1239 \\ 2068 \\ 3062 \\ 3769 \\ \hline 1536 \end{array}$ $\begin{array}{r} 829 \\ 707 \\ \hline 1536 \end{array}$ +072
8-40 JS +050

13-39-13

40

13-38-33

4637.569

C

May - 1 - 1926

8-49:37

200

127.9

2014

735

3094

634

3728

1369

+084

VII

1310

2022

712

3066

700

3766

141.2

075

080

20.

2136

2933

366

1033

797

667

1464

+065

Mean

841

= 070

911

2109

2852

353

8 53 17

1120

743

767

1510

+056

060

13-51-27

40

13-50-47

4637.577

6

May 1 - 1926

20
 9-1-12 214.4
 2894 750
 356 774
 1130 1524 +053

2244
 2860 616 +066
 233.3 775
 1108 139.1 +079

~~200~~
 3058
 3784 726
 1306 662
 1968 1388 +080
 Mean 841
 076
 917

3061
 3710 649 +086
 1228 678
 9-05-34 1906 132.7 092

14-03-23
 40

14-02-49
 4637.585

May - 1 - 1926

9-11:57

200	
3062	
3768	706
1328	600
1928	<u>1306</u>

+097

VIII

308.0	
3738	658
122.2	740
1962	<u>1398</u>

+078

20

372	
1063	691
2106	892
2998	<u>1583</u>

+041

Mean = $\frac{841}{9.14}$

349.0	
1055	665
2158	750
2908	<u>1415</u>

058

9-15 46 ~~695~~ 074

14-13-52
40

14-13-12

4637.592

6

May 1/1926

9 25 50	20			
	368			
	1108	740		
	2102	800		
	2902	1540	+050	<u>IX</u>

	836		
	1083	747	+060
	2100	788	
	2888	1435-	+070

	<u>200</u>			
	136.6			
	1965	599		
	3119	729		
	3848	1328		
			Mean =	841
				070
				911
			092	

	1249		081
	1936	687	
	3096	742	
9 29 23	3838	142.9	070

14-27-36
40

14-26-56
4637.602

6

May 1-1926

36	200			<u>X</u>
9-440	1200			
	2010	815		
	3022	778		
	3800	158.8	+040	
	1211			
	2022	811	+046	
	3068	720		
	3788	1531	+051	
	<u>20</u>		mean =	841
	2882			655
	3980	98		8.96
	330			
	1090	760		
	2180	678	070	
	2858	1438		
	388		064	
	1172	784		
9-4045	2160	712		
	2872	149.6	058	
14-38-42				
40				
14-38-02				
4637.610				

26

May 1-1926

43
9-~~43~~55

20

388

1088

2177

2888

700

711

1411

075

X

336

1086

2128

2878

750

755

1500

066

058

200

1292

2000

3048

3830

708

782

1490841
mem 069
910

059

1277

1938

3098

3798

661

700

1361

-872

085

9 47:25

14-45-40

40

14-45-00

4637.615

C

Tues. May 4, 1926
 Leob FTC Per

U Cephei 005321 Phot

8-10-30 Pa 200
 44.8
 928
 2310 480
 2726 416
 89.6
 11.00
 10.7
 172

440
 936 496
 2282 541
 2793 103.7
 174
 157

-20-
 1302
 1936 634
 3068 652
 3720 1286
 Mean = $\frac{841 + 140}{7.01}$

1300
 1900 600
 3102 642
 3744 124.2
 101

8-14-07 1300
 1900 600
 3102 642
 3744 124.2
 106
 110

13-12-18 Focus altered after taking 0
 above group

4640.550

28

May 4 1926

8-18:31

PA 20

130 2

191 5

303 0

385 5

61 3

825

143,8

+078

1230

1972

3040

3800

742

760

150.2

-064

-057

200

2270

2728

287

978

458

691

1149

mean =

841

-104

737

131

2294

2702

298

930

408

632

1040

144

156

8:21:55

13-20-13

4640.556

May 4 1926

200
 8-29.09 2274
 2737 463
 30.4 684
 988 1147 -1.31

2298
 2731 433 -15.5
 487 513
 1001 94.6 -179

20
 3096
 3702 606
 1288 632
 1920 1238 -1.11

Mean = $\frac{841 - 126}{71.5}$

3082 -098
 3742 660
 1253 700
 8-32.51 1953 1360 086

13-31-00
 4640.563

May 4 - 1926

8-39 15

PA 20

3095

3705

1322

1915

610

593

120.3

-1.19

IV

3035

3724

131.1

1955

689

644

133.3

105

091

PA 200

444

1096

2248

2794

572

546

1118

Mean = $\frac{841}{134}$
~~759~~

707

-138

468

936

2304

2766

468

462

920

162

1.86

8-4240

13-40-58

4640.570

C

May 4/1926

V

8 82:16	<u>200</u> 482 948 2230 2788	466 <u>558</u> 1024	- 160
---------	------------------------------------------	---------------------------	-------

482 916 2300 2740	434 <u>440</u> 874	- 179 - 198
----------------------------	--------------------------	----------------

<u>20</u> 1336 1989 3162 3688	573 <u>526</u> 1099	mean - 150 691 - 142
-------------------------------------------	---------------------------	----------------------------

8.5600	1340 1952 3058 3740	612 692 <u>1304</u>	- 120 - 097
--------	------------------------------	---------------------------	----------------

13-54-08

4640.579

C

May 4-1926

9-4-20

Pa 21

1298	
1918	620
3125	583
3708	<u>120.3</u>

-119

VII

1342	
1930	588
3108	596
3704	<u>118.4</u>

-121

-123

Pa 200

2278	
2744	466
458	543
1001	<u>100.9</u>

841
 Mean = -140
-701

-163

2255	
2775	520
472	526
998	<u>104.6</u>

-158

9-8-00

-154

14-06-10

4640.587

C

May 4 - 1926

VII

9-15-40

Pa₂₀₀

2348

2785

484

970

437

486

92.3

-185

2322

2758

450

950

436

500

93.6

-184

-182

20

3158

3700

1323

1902

542

576

111.8

-138

Mean

841

~~750~~ 151691

3090

3798

1292

1885

708

593

130.1

118

098

9: 19 03

14-17-22

4640.595

6

May 4-1926

9-

20

Wednesday May 5 1926

35

E.S.T.

v dis

LG oas

8
9:12:20~~220~~

314.6

363.8

132.2

188.4

v Cplci 00 5381

Plot of

49.2

56.2

105.4

- 1.53

- 1.54

318.4

365.8

128.2

185.5

47.4

57.3

104.7

- 1.54

8.41

-1.74

6.67

8
9:14:20

Pa.2w

45.1

89.8

233.0

278.0

44.7

45.0

89.7

- 1.92

- 1.93

47.0

89.5

226.6

273.2

42.5

46.6

89.1

- 1.94

13:12:59

4641.551

May 5/1926

8:24:00

PA 200

45.6

944

2290

2744

488

454

94.2

- 1.80

444

950

2294

2759

506

465

97.1

- 176

173

-PA.20

1350

1858

311.8

368.4

508

566

107.4

-1.48

Mean =

841

-161

680

1352

1872

3133

3704

520

571

109.1

-146

-144

8:27:45

13:25:52

4641.560

C

May 5-1926-

8-37.00 P.A. 20

136.6

189.8

310.6

374.2

5.32

6.36

11.68

126

14

135.8

187.7

317.2

365.6

5.19

48.4

100.3~~19~~ 146

165

P.A. 200

228.2

273.3

433

95.2

45.1

51.9

97.0

Mean = $\frac{841}{-162}$
67.9

173

230.6

273.6

450

94.8

430

498

928

178

184

8-37.00

13-35-30

4641.567

6

May 5 - 1926

8: 4.7 : 14

PA. 200

227.1

2792

452

1.003

.521

551

1072

148

IV

2266

2752

472

942

486

470

956

-162

-177

PA 20.

316.6

3676

1336

1840

516

504

102.0

mean =

841

156

685

-161.

314.8

3720

1364

1890

582

526

1108

150

140

8 51 04

13 - 49 - 09

4641.576

C

May 5 - 1926

8:59:10

P.A. 20

3088

3688

1330

1870

600

540

1140

-133

3161

3744

1333

1882

583

549

1132

-134

134

P.A. 200

47.4

95.8

2908

2728

484

520

100.4

Mean =

$$\begin{array}{r} 841 \\ -1.55 \\ \hline 68.6 \end{array}$$

165

47.8

94.2

2280

2731

464

451

91.5

+73176

187

9 03:00

14-01-05

4641.584

6

May 5 - 1926.

9: 11-35⁻ $\begin{array}{r} 50.6 \\ 996 \\ 2228 \\ 2738 \end{array}$ $\begin{array}{r} 490 \\ 510 \\ 1000 \end{array}$ $\begin{array}{r} -166 \\ \hline \end{array}$ $\begin{array}{r} 450 \\ 962 \\ \hline 2810 \\ 2258 \\ 2720 \end{array}$ $\begin{array}{r} 512 \\ 462 \\ 97.4 \end{array}$ $\begin{array}{r} -169 \\ 172 \end{array}$

Pa 20.

mean

841

147

694

$\begin{array}{r} 1284 \\ 1878 \\ 3079 \\ 3739 \end{array}$ $\begin{array}{r} 594 \\ 660 \\ 125.4 \end{array}$ $\begin{array}{r} 108 \end{array}$

~~$\begin{array}{r} 1392 \\ 7804 \\ 5220 \\ 3672 \end{array}$ $\begin{array}{r} 412 \\ 452 \\ 86.7 \end{array}$ $\begin{array}{r} 125 \\ 201 \end{array}$~~

9: 17:12

1351

1840

3118

3730

489

612

110.1

142

9 18 10

14:14:52

4641.594

May 5 - 1926.

VII30
9 29 40

PA 20

1342

1857

3126

3672

515

546

1061

- 151

1322

1862

3152

3630

540

478

1018

- 156

- 161

PA 200

2305

2698

474

948

393

474

867

- 200

mean = $\frac{841}{-171}$
6.70

2286

2724

438

971

438

533

971

- 186

- 173

9 34 45

14-32-42

4641.606

C 6

Thursday June 3 - 1926

LC obs

2730

EST

P 200

U. Cephei 005381

Van der

Phot T

1244

1964

720

3092

664

3736

1384

-081

1296

1918

622

-098

3082

602

3684

1224

-114

P 200

219.2

2748

556

mean =

847

142

478

468

699

946

1024

-160

220.8

-186

2714

406

51.4

416

8 31.10

930

822

-21.3

13-29-20

4670.562

6

June 3 - 1926

8 42 25	Pa 20		
	22 32		
	27 22	490	
	498	450	
	948	<u>940</u>	- 181

2304		
2724	420	- 192
500	440	
940	<u>860</u>	- 202

Pa 200		Mean = -161
3132		<u>680</u>
3682	550	
1314	571	
1885	<u>1121</u>	137

3100		
3700	600	130
1310	588	
8.46 10	189.8	<u>1188</u>
		122

13-44-18

4670.572

6

June 3 - 1926

9-0432

200

3113

3663

129.4

1894

550

600

1150

130

III

3146

3714

1350

1904

578

654

1232

-121

-112

20

475

888

2278

2730

413

452

865

841
 mean = -162
 679

201

482

882

2273

2720

400

447

847

204

206

9 8:00

14-06-16

4670.587

6

June 3 - 1926.

9:2125

$$\begin{array}{r} 20 \\ \hline 485 \end{array}$$

933

227.7

2724

448

447

895

193

44.4

88.4

229.4

2723

440

429

869

-196

200

200

1302

1722

3093

3733

620

640

1260

$$\begin{array}{r} 841 \\ \text{mean} = -148 \\ \hline 693 \end{array}$$

106

1291

195.6

2067

3730

665

663

1328

-099

092

9 2500

14-23-12

4670.599

C

June 3 - 1926

9-30 12

2001355

1950

3113

3714

595

6011196

120

V

1278

1972

3048

3708

694

6601354

-104

087

200

2294

2744

448

-904

450

45690.6

$$\begin{array}{r} 841 \\ \text{Mean} = -141 \\ \hline 700 \end{array}$$

190

2288

2774

467

978

486

51199.7

178

166

9 33 30⁵

14-31-54

4670.606

6

Fri. June 11, 1926

15th E2g.

P.C. Ab.

21 Ceph

$\begin{array}{r} 24 \\ 505381 \\ 1412 \\ \hline 1041 \end{array}$

Phot T

q- Pa. 20

8-57'22

42.0

924

504

2277

503

2780

100.7

-164

436

955

519

-168

2282

458

2740

97.7

-171

Pa 200

1394

1906

512

3156

521

3677

1033

-158

1333

1877

544

-154

3113

523

9.11.40

3636

1067

-149

8-59-31

13-59-31
43

13-59-31

13-55-28

4678.583

4678.580

June 11 - 1926

	Pa 200		
9 2 - 20	1378		<u>15</u>
	1887	509	
	3077	585	
	3662	<u>1094</u>	
		-143	

1384		
1888	504	-142
3088	605	
3693	<u>110.9</u>	-140

	Pa 200		
	2233		Mean = $\frac{841}{688} = -15.3$
	2748	515	
	494	450	
	944	<u>96.5</u>	174

2204		
2740	536	-164
470	513	
983	<u>1049</u>	-154

9 - 05.30
50
 903.55

14-03-55
43
 13-59-52
~~4678.586~~ 4678.583

6

June 11 - 1926

9:8500

PA 20

2278

2758

430

996

480

566

1046

-154

111

2286

2748

422

924

462

502

964

164

175

PA 20

3146

3636

1366

1866

490

500

990

Mean = -160

68.1

168

156

3135

3654

1351

1924

519

573

1092

144

9 11 - 30

19 40

99 50

~~14-09-50~~

14-05-47

~~4678.590~~

4678.587

14-09-50

43

14-05-47

6

June 11-1926

16
9 1750

PA 200

3124

3648

1384

1838

524

454

 978

171

~~IV~~

3156

3696

1335

1950

540

615

 1155

150

129

PA 20

460

970

2238

2785

510

547

 1057

152

Mean =

841

- 150

 691

455

983

2284

2824

528

550

 1078

150

147

20:10
9

18 30
9

14-18-30

43

14-14-27

4678.593

C

June 11 1926

9-2435 PA 200
 478
 964 486
 2266 448
 2714 934 -1.82

V

444
 956 512 170
 2165 519
 2784 103.1 -158

PA 200
 1395
 1824 429
 3088 622
 3710 105.1 -153

Mean = $\frac{841 - 155}{676}$

9-2810
 1378
 1880 502 160
 3134 490
 3624 99.2 168

C

9 26 22
 4 3
 14-22-19
 4678.599
 10 10

Cs watch = $4^m 3^s$ fast at 9:50 EST
 SS Cygn - 213843 - 6" = 11.8

Saturday - June 19 - 1926.

Coll

U Cephei 005381 Photometer J.
PA 200 Var dis

8- 47 40 1292
1847 555
3134 588
3722 1143 -132

1263
1993 730 -104
3072 683
3755 1413 -075

PA 20 841
2312 Mean = -152
2751 439 689
542 411
753 850 -205

2313
2750 447 -200
512 443
8 51-15 755 890 -194

13-49-28

Variable @ full brightness and will not
continue on this.

4686.576

June 19 - 1926

Camp Stars for U. Agui

20 - 16 .47

Hagen 2 with Hagen 6.

50 PA 30 Hagen 2 dis

9-14

3240

3531

291

1403

363

1766

654

-266

3255

3544

289

-284

1444

273

1717

562

-301

PA 210

577

Mean = 330

797

220

2400

228

2628

448

352

614

782

168

376

2402

192

2594

360

400

18

9-14-30

14-16-40

4686.595

June 19 - 1926

Hagen 2 wdt H7

Pa 270 < H 2 dis

9 - 21:40

242.2

259.3

59.7

76.7

171

190

36.1

- 4.00

240.4

263.3

55.8

80.8

229

250

479

- 368

- 337

Pa 90

328.4

35.59

144.4

175.8

275

314

58.9

- 290

mean = $\frac{3.46}{342}$

330.0

351.6

147.8

169.8

216

220

43.6

324

358

9 - 26:10

14 - 23 - 55

4686.600

b

June 19 - 1926.

55

9-30.50 Hagen 2 Wuth H.12
 Pa 70 H.2, dis
 243.3
 2608 175
 58.4 214
 798 38.9 38.3

241.4
 2575 161
 635 121
 756 28.2 -454

Pa 250
 333.3
 3521 188
 1516 140
 1656 328 -412 Mean -
 -421

332.5
 3488 163
 1494 216
 9 3450 1710 37.9 389
 405

14-32-50

4686.606

6

June 19 - 1926

✓

H 12. mul H.Co. 7.8

P. 9270 7.8 dis

9-42,40

208.4

291.6

832

26.8

858

111.6

1690

-0.21

217.9

285.2

673

32.2

708

1030

1381

-0.81

PQ-90

115.0

201.6

866

292.0

958

387.8

1824

1776

+0.05

1186

2120

834

2996

862

+0.12

9-47 35

285.8

1896

170.8

+0.18

14-45-08

4686.615

June 19 - 1926

✓

9 52 30 496
 885
 2335
 2688
 389
 353
 742
 - 237

514
 883
 231.4
 2692
 369
 378
 747
 - 236
 236

9a 276
 1412
 1779
 3248
 3594
 367
 346
 713
 Mean = 226
 246

1373
 1818
 3588
 3658
 445
 470
 915
 216
 185-

14-55-45

4686.622

June 19 - 1926

10-0.00

H 12
Pa 270282
1412H 53
dis

1429

1737

3268

3568

308

300

608

- 283

1458

1740

3262

3582

282

320

602

- 284

- 285

Pa 90

2360

2642

568

828

282

260

542

mean = 291

- 309

2363

2655

536

842

292

306

598

298

287

10-05:10

15-02-35

4686.627

June 19 - 1926

$\sqrt{HCO} 7.8$ with $H 26$
 10-08:10 446 78 dis $\rightarrow \phi 9.60$
 958 512
 2224 563
 2787 1075 - 1.48

492
 921 429 176
 2282 424
 2706 853 204

$\phi 9.240$ Mean - 165
~~4812~~
 3112
 3644 532
 1388 414
 1802 946 179

3072
 3663 591 154
 1309 564
 10 16:15 1868 1155 129

15-12-12

4686.633

P. 60

Monday June 21 - 1926

Ulygni 20/647

Hagen 2. south Hagen 6

PA 30

1406

H 2 div

1733

327

3163

349

3512

676

- 259

1452

1748

296

- 278

3232

272

3504

56.8

298

PA 210

2344

2604

260

575

281

866

49.1

331

2370

2584

214

348

564

208

772

42.2

365

9-9-21

14-07-10

4688.588

June 21 - 1926.

Hagen 2 with

Hagen 7-

P 270

9-12-40

~~798~~

5-5-8

845

2358

2594

287

236

523

-317

57.4

784

2366

2568

210

202

41.2

-344

-370

PA 90

1492

1673

3277

3434

181

157

33.8

mean = 359

414

1458

1683

3243

3504

225

261

486

374

333

9 16:40

14 -14-40

4688.594

June 21/1926

Hagen 2 with Hagen 12

9-19:00

Pa 70

2412

2560

588

734

148

146

294

445

2400

2552

581

740

152

159

31.1

-438

-432

Pa 250

3280

3462

1462

1658

182

196

378

mean - 424

389

3274

3440

1502

1646

166

146

31.2

410

432

9-2245

14-20-52

4688.598

June 21 - 1926

9 27.42 Hagen 12 with HCo 7.8
 Pa 270 7.8 dis
 230
 1118 888
 2048 868
 2916 175.6 - 008

32.8
 994 666 - 053
 2172 632
 2804 1298 098

P.A. 90 mean = 031
 1194
 1968 774
 2994 804
 3798 157.8 - 042

1142
 2034 892 - 021
 2934 906
 9-3145 3840 1798 - 000

14-29-42

4688.604

June 21 - 1926

Pa 90

~~9-32.40~~
~~9-32.40~~
 9 32.40

2 Hagen 12 with
 48 4
 86 4
 2296
 2678

2 Hagen 42
 12 dis
 380
 382
 76.2

231

48 2
 85 4
 2274
 2646

372
 372
 74.4

- 234

- 236

PQ-270

136 3.
 182 4
 3170
 3596

461
 426
 86.7

Mean = 218

- 200

138 2

178 0

3127

3582

398

455

853

202

204

38

9-43-00

14-35-20

4688.608

June 21 - 1926

9-4030 Hagui 12 mil H 53
 1428 Pa 270
 1722 304
 3180 360
 3540 664 263

1402
 1742 340 267
 3210 302
 3512 642 271

PQ-90 Mean = 294
 2316
 2562 246
 -558 220
 778 46.6 -3.43

2326 322
 2616 290
 528 268
 9-4610 796 55.8 302

14-43-20

4688.613

June 21 - 1926

9-49:00 Hagun 78 mil H 26
 2224 78. dis
 2678 454
 440 474
 914 928 - 184

2184
 2782 598 - 152
 364 599
 963 1197 120

Q 9240 mean - 155
 3100
 3648 548
 1314 564
 1878 1112 - 139

311.2 mean = 158
 3574 462
 1342 492
 9 53 80 1834 954 177

14-51-15

4688.619

Tues. June 29/1926

15⁰⁰ E 2g. R.C.C.B.

U Cephei 2065301

1533

9 20 2

I

PA. 20

9- 4110

200.5

3464

4.59

1252

450

1702

90.9

18.9

303.3

353.3

500

-191

130.7

395

1702

89.5

-193

PA 200

322

81.3

491

2087

560

2647

105.1

153

307

-154

832

525

2164

520

9 08 40

2684

1045

155

14-06-25

4696.587

4688.

June 29 - 1926

9-10 45

PA 200

30.4

824

2142

2644

520

502

1022

.160

11

29.2

90.0

211.6

279.2

608

676

128.4

130

101

PA 20

1273

1723

3096

3486

450

390

840

Mean =

841
186
685

208

1240

1752

3046

3526

512

480

99.2

188

168

9-14 20

14-12-32

4696.592

June 29 - 1926

9-36.00

P920

1274

1724 48' 0

3073 47 4

3547 92.4

-185-

1328

1710 382

3058 485

3543 867

-192

200

P9200

2136

2689 553

364 492

856 1045

Mean -

841

166

675-

155-

2055-

~~155-~~

120

2785

730

248

636

884

1366

084

9-39 45

14-37-52

Troubled by clouds in just 2 groups

4696. 610

Mon. July 26/1926

~~Obs.~~ H.T.C. Rec.

E.S.T.

~~U Cephei~~

X 8 32.45

U Cephei 253.81

305.0

var dis

3500

450

130.6

380

188.683.0

2.11

306.4

353.2

468

128.4

478

176.2

94.6

179

-195

2.00

251

930

679

210.6

761

276.7

144.0

-0.69

26.8

83.4

56.6

0.90

208.4

67.4

275.8

124.0

11.1

8-32.38

13-34-38

4723.566

July 26 - 1926

8- 4230 PA 200
 29.2
 90 0 608
 2088 600
 2688 120.8 -1.18

227
 939 712 092
 2049 740
 2789 145.2 067

PA 20 Mean - 841
 1266 143
 1766 500 69.8
 3869 551
 3620 1051 153

1318.
 1728 410 194
 3146 340
 8-46:07 3486 750 235

13-44-18

4723.572

July 26 - 1926

8-51.36

PA 20

130.0

1798

3096

3540

498

444

94.2

180

711

1230

1762

3098

3472

532

374

90.6

185

190

PA 200

2016

2696

278

932

680

654

1334

mean =

841

144

697

091

2063

2693

340

92.4

630

584

1214

104

116

8 55.03

13-53-20

4723.578

July 26 - 1926

9-8 00 PA 200 10

2092			
2174	582		
343	500		
843	<u>10812</u>	146	

2082			
2764	682		-1.18
274	652		
926	<u>1334</u>	091	

PA 20			
3064			mean =
3552	488		841
1283	499		147
1782	<u>987</u>	-169.	<u>694</u>

	3091		
	3524	433	176
	1284	494	
9-11-41	1778	<u>92.7</u>	184

14-09-50

4723.590

July 26 - 1926

	<u>Pa 20</u>			<u>V</u>
9-2050	308.2			
	3492	410		
	1321	<u>441</u>		
	1762	85.1	-205	
	3023			
	3575	452	-196	
	1196	<u>470</u>		
	1766	922	186	
	<u>Pa 200</u>			
	306		mean -	841
	926	620		196
	217.0	<u>560</u>		748
	2730	1180	-124	181
				6.70
			4	
	374		196	
	882	508		
	2156	<u>484</u>		
9.2420	2640	992	168	
14- ²² 20 -35				
4723.599				

July 26/1926

VI

9-3745 PP 200
 228
 844 616
 2118 606
 2718 121.6 116

284
 994 710
 200.1 719
 2720 142.9 072
 -094

PP 20
 1282
 1718 436
 3074 442
 3516 87.8 197
 mean = $\frac{841 + 140}{701}$

1252
 1774 522
 3078 450
 9-4134 3528 97.2 173
 185

14-39-40

4723.611

76.

Friday August 20 - 1926

L.C. obs

12" Polar

sky pretty hazy + cloudy

7-45. but will attempt observations

7-48-10 S. Aggr 213843 Est 11.5

observations difficult on account
of haze in region

7 S. Y. Aggr 200712 - too cloudy in
this region

20 1131 S. X. Aggr Est 9.3

W X Aggr 20 1437^h Est 11.5

Sky all cloudy
no use to continue further

8-9-

Mon. Aug. 30/1926

EST. 12' Polar

Moon 33 Cyg 213843 est 8.4
7 40bright
elder nearby

U	005381	Phot. T	Phot. V.
8- 3:25	U Aphi 20	005381	15 inch Equatorial
	3042		
	3544	502	Van der
	1175	576	
	1751	107.8	-1.47

I

308.8		
3472	384	170
1281	515	
1806	89.9	192
(200)		

	841
Mean --	132
	709

27.8		
838	560	
2068	723	
2791	128.3	1.01

227		
904	677	-0.95
2022	666	
8 08.10 2688	1343	0.89

August 30 - 1926

8-1200

Pa 200

192	
928	736
2113	663
2776	<u>139.9</u>

078

II

332	
886	554
2128	550
2678	<u>1104</u>

109 110

141

Pa 20

1326	
1711	385
2049	445
3494	<u>830</u>

Mean =

841
<u>155</u>
686

211

1286	
1726	440
3048	465
3513	<u>905</u>

200

190

Aug 30 1926

(20)

8-25.20

3103

3498

131.2

1726

395

414

809

-217

~~111~~

3056

3596

1205

1796

540

591

113.1

-176

-135

BA 200

278

902

2078

2696

624

618

1242

mean =

1.10

$$\begin{array}{r} 841 \\ 142 \\ \hline 699 \end{array}$$

262

892

2080

2713

630

633

1263

108

106

Aug 30 1926

8 36 10

200

26.4

915

2110

2736

651

626

1277

103

IV

266

926

2125

2690

660

565

1225

~~104~~ 108

114

20

1252

1772

2030

3523

1

520

493

1013

mean =

841

145

696

162

1280

1701

3083

3524

421

441

862

182

8 40 45

202

Aug 30 1926

8-5200

20		
128.8		
1736	448	
3088	408	
3496	<u>856</u>	-20.3

130 9		
177 2	463	-188
305 2	504	
355 6	<u>96.7</u>	-174

200		mean -	841
2100			<u>147</u>
2694	594		694
276	646		
922	<u>1240</u>	-1.11	

8-5630

2114		
2688	574	106
275	710	
985	<u>1284</u>	101

Watch used = 3^2 fast

Aug 30 - 1926

003179

Y Cep

200A

423 E

Est 139

9-:25:32

U Cas.

004047

Est. 13.3

20 20

4 20 E

~~13.3~~

Look up Northern Chart

S.T.
from

Thurs Aug 31/1926

(Moon) P.C.C.B.

7:26 SS Cygni 213443 est A.7 (12")

15" E & E

0053+1 N Ceph Plot T.

Pa -

~~7~~ ~~894~~

Pa 200

7 40' 15" 2128

2700 572

264 720

984 1292

Var dis

100

2115

2655 540

360 498

858 1038

Pa 20

3050

3564 514

1333 454

1787 968

3052

3535 483

1314 430

7-49=45 1744 91.3

-128

mean - 841

-156 154

687

180

174

185

Aug 31 - 1926

7-54:40

Pa 20

2982

3527

1294

1737

545

443

988

169

II

3062

3493

1275

1759

431

484

915

178

187

Pa. 200

314

887

2180

2688

573

508

1081

146

Mean -

841

165

676

296

920

2090

2678

624

588

1212

132

117

7-58-10

Aug 31 - 1926

8- 11 20	Pa 200			
	29.4			
	892	598		
	2114	530		
	2644	<u>112.8</u>	-135	
				<u>III</u>
	273			
	867	594	-126	
	2072	622		
	2694	<u>121.6</u>	116	
				841
	Pa 20		mean	<u>-147</u>
	1286			697
	1758	472		
	3040	524		
	3564	<u>99.6</u>	167	
	1266			
	1762	496	-168	
	3068	494		
8 15:15	3562	<u>99.0</u>	-168	

Aug 31 - 1926

8-54 25-	PA 20			<u>IV</u>
	1224			
	1756	532		
	3030	<u>574</u>		
	3604	110.6	-140	
	1262		-150	
	1742	480		
	3046	<u>542</u>		
	3588	1022	-160	
	PA 200		mean =	841
	2022			<u>117</u>
	2716	694		724
	266	732		
	998	<u>142.6</u>	072	
	2090			
	2766		084	
	315	676		
858 00	955	<u>640</u>	095	
		1316		

Aug 31 - 1926

$\eta = 290$ PA 200
 2018
 2724 706
 268 758
 1026 1464 065

2019
 2702 683 078
 335- 657
 992 1340 090

PA 20
~~48~~ mean = $\frac{841 + 095}{2} = 746$

1218
 1852 634
 2952 718
 3670 1352 087

1260
 1758 498 112
 3036 620
 9 33:40 3656 1118 138

August 31 1926

9-10 0020 PA 20

1220

1776

3046

3602

556

566

$$\begin{array}{r} 566 \\ 112.2 \end{array}$$

-137

1130

1875

2918

3630

745

712

$$\begin{array}{r} 712 \\ 1457 \end{array}$$

102

066

PA 200

1986

2786

218

1028

800

810

$$\begin{array}{r} 810 \\ 1610 \end{array}$$

mean

841

068

$$\begin{array}{r} 068 \\ 773 \end{array}$$

036

2010

2818

19.2

808

816

$$\begin{array}{r} 816 \\ 1624 \end{array}$$

034

10 0000

1018

033

Aug 31 / 1826

Watch

10 : 9 : 16

10 : 16

Ball 3

10 : 11 : 00

12 : 00

Friday Sept. 3 - 1926

L.C. obs.

L/C

7-26 Sl Agni 213843 est 8.8

Too cloudy to continue
further.

Saturday Sept-11-1926
12 "

L. Obs.

L. Obs. rec.

7-22	Id. Cygni	213843	Est. 10.9	
8-07-	R Herc.	160118	Est. 9.3	
	U Ser.	160210	Est. 9.7	
	R U Herc.	160625	Est. 12.8	
	W Cor.	161138	Est. 13.0	
	SS. Herc.	162807	Est. 12.8	
	W. Herc	163137	Est. 13.4	
	S Herc	164715	Est. 12.2	
	SS. Oph.	<u>165202</u>	Est. 13.2	
	R J. Herc	170627	Est. 13.3	green
	R S Herc	171723	Est. 10.0	
	Q U. Oph	172809	Est. <u>13.3</u>	
	R T Oph.	175111	Est. 10.2	
	T. Brac	175458 ^a	Est. 10.8	
	R Y Herc	175519	Est. 13.3	

Sept. 11 - 1926. " 12

8 - 47.	V. Dra.	175654	Est. 12.4	
	J Herc.	180531	est 12.4	
	Nova Oph	180911	Est. 13.5	barely seen
	Hyoph	181103	Est - 9-0	
	W Lyrae	181136	Est.	
	S V Herc	182224	Est <u>13.3</u>	
	J Serp.	182306	Est. 12.4	
	S V. Dra.	183149	Est. 9.3.	
	R L Herc	183225	Est 8.9	
	R Y Lyrae	184134	Est 10.8	
			Est 5.6	
	R Scuti	184205		
	R W Lyrae	184243	Est <u>13.5</u>	
	Nova Aql	184300	Est 10.9	
	R X Lyrae	185032	Est <u>13.5</u>	
	Z Lyrae	185634	Est <u>13.5</u>	

Sept- 11 - 1926

12¹¹

9:40

P. J. Lyrae

185737

Est 11.8

K. agk

190108

Est 6.6

9-50

~~and~~Getting increasingly
cloudy in north + northwest.

2.5.5
Row
Noon

Mon Sept 13/1926
LC Alb 12" Polar MFC Rec

7.05 Index S Cyg. 213743 est 11.1
7.25 143.3 Sag 191616

151.6 vander 8.3

326.3 7.1

333.4 15.4

~~2.1~~ 11.1

Phot 7

- 5.86

7.27

144.8

- 5.90

152.8 8.0

326.6 6.8

333.4 14.8

- 5.95

Mean = -5.49

7.28 Index B

234.4

244.6 10.2

55.3 9.5

64.8 19.7

- 5.32

- 5.08

7.29

233.4

245.6 12.2

52.2 12.4

7.30 64.6 24.6

- 4.84

Sept. 13/1926
Clouds over region

Index B

Coup $\Delta = -16.0$

II

star just south of Var. at
19^h 13.5^m - 16° 21' (253)

8:35	53.3		
	63.8	10.5	
	233.6	12.8	
	246.4	<u>23.3</u>	- 49.6

8:40	53.2	1	91
	66.2	43.0	4.53
	232.9	11.5	
	244.4	<u>24.5</u>	- 48.6

Index A

Mean = -5.20

142.8	8.6	
151.4	10.0	
325.8	<u>18.6</u>	- 5.45
335.8		

- 54.9

	141.6		
	149.6	8.0	
	325.6	9.9	- 5.53
8:46	335.5	<u>17.9</u>	rooted by lds.

Sept 13/1926

9.05 Index A III

142.8		
151.7	8.9	
325.2	11.4	
336.6	<u>20.3</u>	- 52.6

144.6		- 55.0
152.7	8.1	
325.7	8.1	
333.8	<u>16.2</u>	- 57.5

Index B Mean 5.26

234.2		
245.2	11.0	
53.3	10.5	
63.8	<u>21.5</u>	- 5.13

9.09

233.8		- 50.2
246.6	12.8	
53.8	11.0	
64.8	<u>23.8</u>	- 4.91

Clearer in above group

Sept 13/1926

Index B

IV

9.20

235.5

247.8

52.8

65.6

12.3

12.8

25.1 — 4.79

234.8

244.8

54.4

66.8

10.0

12.4

22.4 — 5.04

— 4.91

Index A

Mean 5.04

326.5

336.5

142.6

154.4

10.0

11.8

21.8 — 5.10

325.3

336.3

142.4

9.25

151.9

11.0

9.5

20.5 — 5.24

5.17

Sept 13 / 1926

Index A

9.36

326.4

337.3

142.9

151.7

10.9

8.8

19.7 - 5.32

327.7

335.9

140.4

152.4

8.2

12.0

20.2 - 5.27

- 5.30

Index B

Mean 5.13

~~235.8~~~~525.9~~~~245.8~~~~336.6~~

54.9

65.2

10.0

~~11.0~~

10.3

20.3

- 5.26

- 4.95

233.2

247.3

52.8

65.8

14.1

13.0

27.1

- 4.64

9.41

Too many floaty clouds to continue

(note)

look at clock

Wednesday Sep. 15 - 1926

15" E. Eq L. C. obs. T.

	U. Cep.	005381-	var dis	Phot T.
	PA 200			<u>1</u>
7-550	2128	530		
	2658	530		
	362	<u>1060</u>	151	
	892			
	1992			
	2708	716	-122	
	308	608		
	916	<u>1324</u>	893	
	PA 20		mean =	841
	3052			<u>147</u>
	3508	456		694
	1308	501		
	1809	<u>957</u>	-176	
	3050		172	
	3582	532		
	127.4	460		
7-9.00	1734	<u>992</u>	168	

Sept. 15 - 1926

7-29 10	PA 20			
	2930			
	3575	645		
	1288	572		
	1800	1157	129	

	2008			
	3572	564		-140
	1255	500		
	1755	1064	150	

	PA 200			841
	287		mean	124
	896	609		71.7
	2092	596		
	2688	1205	-11.8	

7:32.00	263			
	950	687		109
	2126	602		
	2728	1289	100	

Cut off by clouds - aetho clear
in two previous groups.

7-45. Impossible to continue further

~~Sept 15 1926~~

Fri Oct 1/1926

E.S.T.

from
noon

U Ceph

50 5381

Plot T

21 43~~50~~
3 10 E

9.5

308.3

van der

P.A. = 20°

349.4

41.1

129.6

177.6

48.0

89.1

- 1.94

303.4

359.8

56.4

130.8

178.2

47.4

103.8

P.A. = 200°

- 1.56

8.41

mean = - 1.46

6.95

29.2

98.8

69.6

212.8

272.2

59.4

129.0

- 1.00

28.2

85.5

57.3

213.2

270.0

56.8

114.1

- 1.32

9.9

Oct 1 1926

h m	* Index 270°		<u>11</u>
9.20.0	33.3		
	89.4	56.1	
	213.8		
	260.9	47.1	
		103.2	-1.58
	30.8		
	94.4	63.6	
	211.4		
	275.8	64.4	
			-1.30
	$PA=20^{\circ}$	12.8.0	-1.02
	124.8		
	175.5	50.7	
	303.0		
	356.0	53.0	
			mean = $\frac{8.411}{6.93}$
		103.7	-1.57
	126.4		
	170.9	44.5	
	305.0		
	356.8	51.8	
9.23.4			-1.66
		96.3	-1.75

Oct 1/1926

Index 200°

h m

III

9.39.5

126.8

178.8

52.0

301.4

354.7

53.3

105.3

- 1.53

123.8

171.8

48.0

305.5

- 1.61

356.0

50.5

98.5

- 1.69

Pa 20°

207.8

271.8

64.0

23.8

99.2

75.4

Incom

8.41

- 1.41

139.4

- 0.79

7.00

214.4

266.8

52.4

38.0

- 1.21

9.43.4

86.8

48.8

101.2

- 1.63

Oct 1/1926

Same again
by W F H Waterfield
experimental

$$\begin{array}{r}
 211.5 \\
 269.0 \\
 340 \\
 87.0 \\
 \hline
 575 \\
 530 \\
 \hline
 110.5
 \end{array}
 \quad - 1.64$$

$$\begin{array}{r}
 213.3 \\
 266.0 \\
 33.1 \\
 88.7 \\
 \hline
 527 \\
 556 \\
 \hline
 108.3
 \end{array}
 \quad - 1.55$$

$$\begin{array}{r}
 301.9 \\
 355.0 \\
 123.8 \\
 174.8 \\
 \hline
 531 \\
 560 \\
 \hline
 104.1
 \end{array}
 \quad - 1.46$$

$$\text{Mean} = 1.66$$

$$\begin{array}{r}
 6.75
 \end{array}$$

$$\begin{array}{r}
 306.4 \\
 358.2 \\
 132.7 \\
 174.9 \\
 \hline
 458 \\
 428 \\
 \hline
 88.6
 \end{array}
 \quad - 1.56$$

$$1.75$$

$$- 1.95$$

Have pin made for photometer for 15"

Sat Oct 9/1926

P.C. Ob.

15^h 22^m.W.F.H.W.
P.O.C.

u Cephei 005-341

Phot

17	25	70	7	40
13	22	13	36	
Σ ST	31	0.3	21	16
referred	00	5.3	244	53
& noon	3	5.0	3	37

h m s

7.45.45

PA 200°

208.4

264.4 var dis 56.0

25.4

91.8

66.4

122.4

- 1.14

202.4

269.8

67.4

- 1.13

30.5

86.6

56.1
123.5

- 1.12

PA 20°

PA 20°

306.8

359.4

52.6

124.4

173.6

49.2

101.8

- 1.61

302.6

354.0

51.4

- 1.62

122.6

172.7

50.1

101.6

- 1.62

7.50.40

8.41

mean value - 1.38

7.03

Oct 9/1926

Cs watch = 7 53 / 3 at 7:57:00 Balloon 103

7. 58.50

303.6 PA 20°

351.6

48.0

122.8

170.2

47.4

95.4

-1.77

130.2 ~~307.2~~

42.0

172.2 ~~351.8~~~~44.6~~

-1.78

301.5

354.4

52.9

94.9

-1.79

PA 200

212.8

263.3

50.5

30.2

91.6

61.4

111.9

-1.37

208.6

267.8

59.2

29.4

-1.24

8. 03 30

94.4

65.0

124.2

-1.10

mean value

8. 111

-1.52

6.89

Oct. 9. 1926

107

III

PA 200

8.14.50

214.4

266.2

34.6

94.3

51.8

59.7

111.5

-1.38

PCabz

213.6

267.6

36.8

88.9

54.0

52.1

106.1

-1.51

-1.44

PA 20°

star replaced in
centre of field

306.8

351.3

125.8

173.8

441.5

418.0

92.5

-1.85

mean value

841

-1.67

6.74

308.9

351.5

127.8

173.8

442.6

416.0

88.6

-1.95

-1.90

8.19.30

above group
1/2 wt

GV-9. 1926

h m s		PA	20		$\overline{1V}$
8.22.25	305.0				PC $\overline{1V}$
	354.2	49.2			
	129.8	46.7			
	176.5	95.9	-1.76		
	308.5				
	349.4	40.9			
	131.6		-1.92		
	174.2	42.6			
		83.5	-2.09		
		PA 200			
	31.6				
	89.4	57.8			8.41
	217.6		-1.57		1.57
	271.6	54.0			46.84
		111.8	-1.38		
	28.5				
	92.8	64.3			
	208.8		-1.22		
8.26.20	270.8	62.0			
		126.3	-1.06		

Oct 9. 1926

109

h m s		PA	200	<u>V</u>
8-39-10	29.8			200b
	94.8	65.0		
	206.7			
	267.8	61.1		
		126.1	- 1.06	
	30.0			
	92.2	62.2	- 1.10	
	208.4			
	268.0	59.6		
		121.8	- 1.15	
		PA 20°	mean value	8.41 - 1.52 6.89
	127.8			
	174.8	47.0		
	310.2			
	354.0	43.8		
		90.8	- 1.89	
	133.0			
	177.2	44.2		
	305.2		- 1.94	
8-44-30	348.4	43.2		
		87.4	- 1.98	

Mon Oct. 11/1926

P.C. Alb. 15" E. g.

EST. from
Moon

u Colhei 005381

21 18

Photo T.

335 E 181.2

Pa 20°

7.45 20

127.7 Kardis.

181.6 53.9

299.2

362.8 63.6

117.5

-1.25

130.8

172.8 42.0

306.2

347.4 41.2

-1.68

83.2

-2.10

200°

mean value 8.41
- 1.42

215.0

271.7 56.7

30.8

88.0 57.2

113.9

-1.33

208.8

269.2 60.4

25.8

→ 95.0 69.2

-1.16

129.6

-0.99

sky very hazy

7.49.25

GO. 11. 1926

O Cygni

111

11

Pa 200

8 15. 20

216.4

264.8

30.0

89.4

48.4

59.4

107.8

- 1.47

215.6

262.8

31.4

88.4

47.2

57.0

104.2

- 1.51

- 1.55

Pa 20°

300.8

354.8

127.7

179.4

54.0

51.7

105.7

mean

8.41

- 1.52

6.89

- 1.52

306.5

358.5

124.0

176.2

52.0

52.2

104.2

- 1.54

- 1.55

8 22 10

C's Watch = 8:25:30 at 8:31:00 Ballou

clouds

A CS

Too cldy to continue to advantage

12

S.T. (Moon)

Friday October 15 - 1926

L.A. obs. 15th E. Eq. H.S. Cree

7 21:30 PA 200

1892

2830

108

1078

938

970

1908

169.2

20 Ophi

variable det.

Phot T.

~~+169.2~~

+ 020

005381

I

1936

2840

122

1026

904

904

1808

128.2

+0.11

~~+179.2~~ + 002

PA 20

2936

3640

1139

1876

704

737

144.1Mean = $\frac{881}{-0.24}$
8.17

-0.69

2862

3642

1106

1856

780

750

1530

-060

052

7 27 30
7 24 30
3 497 20 41
24504.514
804.519

(Hel.)

- 0.003

October 15 1926

$$\begin{array}{r} 2 \\ 733 \end{array} 15^-$$

Pa 20

1848	
2542	694
0.8	729
737	<u>1423</u>

-073.

1802	
2586	784
14	778
792	<u>1562</u>

-059

+045-

Pa 200

2571	
3570	999
834	913
1747	<u>1912</u>
	<u>1688</u>

$$\text{mean} = \frac{841 - 019}{8,22}$$

+021

$$\begin{array}{r} 2655^- \\ 3575^- \end{array}$$

920

$$\begin{array}{r} 7,3600 \\ 73602 \\ 349 \end{array}$$

774

993

+021

$$\begin{array}{r} 73219 \\ 24804.527 \end{array}$$

1767

191.3

+021

$$\begin{array}{r} 804.519 \\ +0.005^- \end{array}$$

$$\begin{array}{r} 1687 \\ \hline \hline \end{array}$$

Oct 15- 1926

Pa 200

7-4045

2568

3540

759

1740

972

981

1953

1647

+ 0.29

2556

3587

818

1770

1031

952

198.3

161.7

+ 0.35

Pa 20

68

744

1792

2568

676

776

1452

* - 0.67

841
 mean = -0.05
 836

3572

787

1784

2675

81.5

891

- 0.42

1706

* - 0.18

7:44:00

7 42 22

-3 49

7 38 33

24864.52

804.519

70.009

Oct 15/1926

7 53.00

~~7 53.00~~

20-

257 2

354 8

77 8

171 6

Comp * dis

97 6

93 8

191.4

168.6

- 0.22

2628

2589

85 0

17300

961

880

1841

175.9

- 0.15

- 0.08

200

16

777

1824

254.8

761

624

1385

Mean = $\frac{841}{869} + 0.28$

+ 0.80

42

78 2

1830

2568

740

738

1478

+ 0.71

+ 0.62

7 56.30

7 54.41

3 49

7 50.56

24804.535

804.518

+ 0.015

Oct 15 1926

8-7 30

Pa 200

4.9	
728	679
1833	715
2548	<u>1394</u>

+ 0.79

V

6.2

+ 0.80

742	680
1858	697
2555	<u>1377</u>

+ 0.82

Pa 20

900	
1748	848
2644	978
3122	<u>1826</u>

1774 - 0.05

Mean + 0.40
889

866

+ 0.16

1662

796

2694

814

3508

1610 + 0.36

8-11 45

8 09, 34

8 05, 49

Considerable aurora in North which
 made field unduly bright @ times

2480 5467

205.519

+ 0.028

Cs watch = 8:15:48 at 8:12:00 Ball

Observations made at various
dates and not entered here at the time
owing to absence of this book

Oct 11 8 pm RS Aquilae

4800.5

n 128

131 = 138 est from

134

131

128 RS 134-5 = 139

Nov 5
4825.6

8:30 W and 54-4 55+1 = 12.8

8:45 D Cam α & β both very = 14.1

Nov 10

23

H 55 ST =

MT. RR Pers 138-4 = 14.2

72 38

V Cam. glimpse ≤ 14 = 15.0

4830.6

72 48

SS and 71-4 = 9

14.9

13 4

Y Dra. 5-7 α +1

14.6

Nov

Waterford Observed
15" E & E

118

Nov 11. Thursday 1926.Wotw. obs. 15^h E. E..6 E-M.T. u and. $131 - 7 (135 + 1)$ 2e consider 135 shd be 140. I always call it 13.8

v Piscium

117-4

123+3

 $\frac{13.8}{12.0}$

030514

v Ariel

just caught q-8 ext. diff. v bad definition

Lyons obs. calls q. 145, but query if so it is 15.3

S Tauri

< 138

definition worse than ever.

48 31.6

Monday NW 15

Observed WHTW 15" E.E.

EST. North

7.25

SS Cys

85-2 94+6

8.8

6 (Hagen) Vulpeculae compared by photometer with 11.

8.0

~~120.6~~

54.0

131.7

235.6

303.6

223.2

312.8

48.2

136.2

Stopped by
Hagen

Wednesday Nov 17 - 1926

Obs. 1584 W

ESTime

(noon)

15" SE

7.50

SS Cygni

C-05

213843

8.55

Tuesday-Wednesday 23-24 November 1926.

121

EST (Wood)

V Leporis 060620

W. F. H. W. 600 L E. C. Rec.

PG. 220

12:32:30

25.2

Much too cloudy to continue. β Canis
Majoris invisible to naked eye.

22

2424852

Thurs. Dec 2. 1926

Obs. WATZ.

15" E E

8.52 EST from Noon

185032

RX Lyrae

glimpse X-1

el- 14.2

very bad def.

9.0

185737

RT Lyrae

< 133

< 13.3

9.10

200357

S Cygni

91 (Hayes) - 2

14.5

143

9.38

223841

R Lacertae

140-143 + 2

14.1

• 126

• 140

• 130

• 143

⊙

★

N

10 6

233956

2 Cam

134 - 4

138

134 is more like 13.7
 Mitchell gives a. 14.4 between 2 & 14
 & make 2 14.4 + 3

Thurs. Dec 2.

m:

2

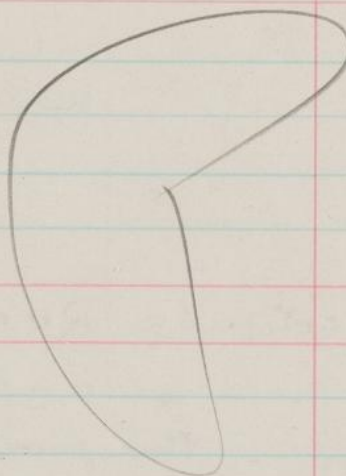
10 42

004533

RR Am

glimped

= Hagen 1444

14.4
~~14.4~~

24

Sat. Dec 4.
 15⁰⁰ 22. on WHTW

7.55 EST	001046	X and	125-3 128+3	12.6
		128 quite 6/10 less than 125		
8.15	001838	R and	40-5 44-1	12.5
		Hazen numbers		
8.30	004947	✓ Cars	glimpse 141-5	14.6
		141 in β on WHTW's sketch see Lyon Bulletin Feb 1926.		
8.45	004746a	RV Cars	easy 140-6/7	14.7
		2 α β of my sketch + 1. then from the faint pair just n of RV.		
8.55	011041	✓ Z and	quite easy 142-10	say 15.0
		142 is very much brighter than 140 which I have always reckoned a difficult object.		

Thurs Sat Dec 4

125

9.3

013238

RO ant

= 130 bad def

13.0

9.23

060547

SS am

< 20 bad def

14.5

9.40

074922

U Gen

< 13.7

P

126

Dec 12. 1926 Sunday

15" EE water obs

watch 37^m fast

11.9	STam	042309	= 141	= 14.1
------	------	--------	-------	--------

both v. difficult.

134 in more to the West than in
Hagen's chart.

130 " 127

- 134

11.26	SS am	060547	= 7 2+3	14.9
-------	-------	--------	---------	------

quite easy.

	Orion	054920a	89-2 97-5	9.2
--	-------	---------	-----------	-----

5" finder

	DW "	054920b?	106+2 97-6	10.4
--	------	----------	------------	------

11.50	STam	054319	97-3 101-1	10.0
-------	------	--------	------------	------

Dec 12Wabok 37^m far

12.5

061647

V am

116-4 125+5

12-0

13.8

074922

to fern

= 141.

14.1

28

Exp. I. V. 1926

Tuesday Dec 14 - 1926

U. Cephei 005381 Phot. I

Pa 200

34
7-29.50

2333

2884

583

1280

van der

551

697

124.8

-1.09

2238

3122

584

1324

884

740

162.4

-0.71

0.33

Pa 20

370

1304

2257

3112

934

85.8

1789

mean =

841

042

799

002

444

1328

2333

3126

884

793

1677

-0.12

0.23

738.30

3640

126

3514

24864.5-244

347

+0.877

5269 Hel

248

+0.179

Dec 14 - 1926

7-43-00 PA 21
 31.7 \angle Vardis
 1337 1020
 2233 930
 3163 $\overline{1950}$ + 009
 1850

II

466 + 011
 1384 918
 2205 950
 3155 $\overline{186.8}$ + 013
 173.2

PA 210. comp * des Mean. - 8 41
 1267 1010 0.30
 2277 1030 8 11
 3126 $\overline{2040}$
 4156 1560 - 046

1196
 2346 1150
 3013 1133 - 070
 4146 $\overline{2283}$
 131.7 - 094

7 47 m
 $\overline{74500}$
 126
 $\overline{74334}$

20264.5203 .5325 Vel
 $\overline{252}$
 $\overline{+ .185}$

Dec 14 - 1926

Pa 200
 7-52.43 60.2
~~115.0~~ 548
 118 4 582
 2404 618
 3022 120.0

-119

548
 1204 656
 2324 774
 3098 1430

-095

-071

Pa 20

1320
 2250 930
 318.8 824
 4012 1754

Mean - 841
 064
 777

-009

137.7
 2124 747
 3255 659
 3914 1406

-043

-076

7-57.00
 9 43

54 52
 1 26

7 53 21

24864 5371

747

0.190

5396
 348
 0.192

Dec 14 - 1926

IV

8-2 20 PA 20
 1388
 2166 778
 3226 738
 3964 157.6 -0.54

130.8 -0.42
 2178 870
 3172 768
 3944 163.8 -0.31

PA 200.
 2425
 3014 589
 555 709
 1264 129.8 0.98
 mean = $\frac{841}{073}$
 76.7

2386
 2988 602
 555 645 -104
 8-06 42 1200 1247 109

8 04 31
 1 26

8 03 5

24164.5439 5460
 347 348
 + 497 + 898

Dec 14 - 1926

8 - 10:45

PA 200

2356

3028

566

1236

672

670

1342

-0.89

2394

3017

655

1264

623

609

1232

-100

112

PA 20

3456

4066

1348

2236

610

888

1498

$$\begin{array}{r} 841 \\ - 078 \\ \hline 763 \end{array}$$

058

3274

4026

1377

2155

752

778

1530

055

052

8 - 14 40

8 12 42

1 26

8 11 16

2 48 64.5495

707

~~707~~

.5520

.348

.204

watch used = 1^m 26^s 10th at 8:20

Dec. 16-17 1924.
Thursday - Friday.

133

Noon

6:06 P.M. E.S.T. SS Aurigae, eyepiece 2".
(108) neither 2 v 3 (110). Very difficult to estimate
in strong moonlight and lower altitudes, but
certainly between (108) and (110). (124) barely
glimpsed. Seeing very poor. L. E. C.

> 15 PM (E.S.T.) SS Aur. 06.5.87 est 11.0
var same as Max L. E. C.

Thursday-Friday 23-24 Dec. 1926.

7:20 P.m. E. S. T. Noon

SSaurigae 11.1

L. E. C.

7:30 P.m.

SV Tau¹ d 123 e.

10.6
✓

L. E. C.

Wed. Dec 29. 1926

135

15th E.E.obs. W.H.W.EST ^{Noon} end

8.30 pm	004533	RR and glimpse only.	144 (Hayes) -5 v. difficult	14.9
---------	--------	-------------------------	--------------------------------	------

8.55	004746 a	RV Car v. diff	$\alpha - 2$ α in mp 132 • 132 α ⊙	el. 15.0
------	----------	-------------------	--------------------------------------------------------------	----------

9.6	011041	VZ and seen but v. faint.	142 - 10	el 15.2
-----	--------	------------------------------	----------	---------

9.19	022150	RR Per. p. ← ⊙ 138 alt. from 135.	easy. 148 - 2 • 148 • 138	15.0
------	--------	-----------------------------------------	---------------------------------	------

9.30	005840	RX and q is the close corner	q-2 q+2	13.7
------	--------	---------------------------------	---------	------

36

Wednesday Dec 29

EST ^{Norm}~~9-58~~

9-58

004122

RW and

< 139

< 13.9

perhaps once glimpsed.

11-32

030514

O Ari

glimpsed twice

2-5

est- 15.0

but 2 is too bright for

1145-1

12-05

042309

STan

< 145

but 145 about = 138

< 14.0

4044

< 13.8 + 0.2,

14.5 not seen.

L. E. C.

12-15

054319

SO Tan

101-1

10.2

✓

12-40

060529

SS an

25-1

14.6

L. E. C.

x2V4y, not seen.

Wedn Dec 29, 1926

137

mid

12:50

074922

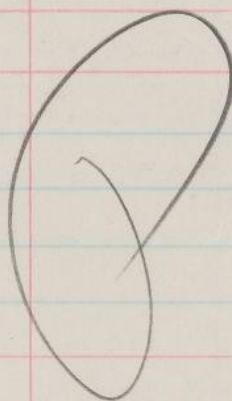
O Gem

137-5 14.1-2

14.0

W.H.W.

14.1 ±

L.E.C.

Mond. Jan 3 1926

obs. WTTW.

^{Nov}
 faint line $\text{EST. } 15'' \text{ E}$

8 31

060527

SS am

quite early sc-1

14.6

9.0

053350

XUma

in v. < 128

< 13.8

LC = WTTW

128 in ext. faint. prob.

not > 14.0.

Mon. Feb 28. 1927

15" E E

W. W. obs.

EST. noon
and

8-10	001046	X and		14.8
8-30	001838	R and	glimpse only 141- 3/4.	sl- 14.5
8-45	004533	RR and	= star sf not difficult	sl-
004746	RV Cam			
07-10	004746	RV Cam	in in.	< 14.7.
9-20 02102	021024	R and	16-2 18+2 Hagen's numbers	12.1

Monday Feb 28 Cont.

15" EE.

Wester obs.

9.32

021143a

W Ant

8.3

9.40

022150

RR Pen

13-8 - 8. 148-42

14.6

W ← ⊙

135

148

138

mag of 148 est without reference to
previous observations. See Dec 29. 1926

9.52

032235

R Pen

17-2 = 21

10.3

Hagen numbers

10.5

041617

V Tan

8+5 = 6

9.4

Hagen's nos.

10.25

054319

ST Tan

97-3 101+1

10.0

Monday Jul 20 1927 Cont

15^h 33^m 45^s L8725 obs.

10 32	060547	SS am	p-3 γ +3	12.1
-------	--------	-------	-----------------	------

10 40	074922	V Sem	137-2 (144-5)	13.9.
-------	--------	-------	---------------	-------

11 30	Field of DW Virginis var bright - no comparison made.			
-------	-------------------------------------------------------------	--	--	--

142

Tuesd. Mar. 1. 1927

WOTW obs

1100
EST ~~and~~

15" EE

7.53

005940

RX and

p-5

13.5

8 11

233556

2 Cas

1111-2 118+2

11.6

8 26

011011

011011

02 and

certainly seen

11.50

but v. diff 112-8

8.46

030514

D and

= 11.5

11.5

11.5 absorbed by light
more like 13.5

9.25

042309

S Tau

< 13.8

a star probably 11.5 seen, might have
been S. Hagen map is wrong. 13.4 is
placed too far East.

Inesd. Mar 1 1927 Cont

LORTS ds

24

11.34	060547	SS am	124-3 130+3	12.7
-------	--------	-------	-------------	------

11.39	074922	to sem	137-3 (141+2)	14.0
-------	--------	--------	---------------	------

12.13

OW Vif

c+2

grades
32.5watch 4^m 28^s slowh m s
12.17.30

u

= c

30.5

h m
12.45.9

u

c-6 f+6

21.8

h m
13.1.2

= f

19.0

13.10.0

f-5 g+1

13.5

①

f. g

Tuesday Mar. 1927

15" EE

WORTH obs

UW Virginis

gds

13. 17.0

g2 2h

98

C

h

K

⊙

f

g

13 22.0

k-2 ~~BA~~k+6

58

13 26.0

k4 3 k

32

13 27.7

= k

0

13 38.0

= k

0

14. 05

K-2 a 1

-15

14. 18

g-2 h+3

102

change telescope from W side of Pier 15 East. Immediately before change could see no difference in light of star. Change + finding of field took about 10 minutes. observation at 14.18 was made immediately field was found.

Mar 1.

Cont

EST ^{noon} cont

15" EE

L0H25. do

14 ^{h m} 22.5

OW Vig

f-5 g+2

140

14 29.0

f2 6g

175

14 33.2

=f

190

14 39.0

f+3

220

14 48.5

c-5 f+6

252

watch 4^m 46^s slow

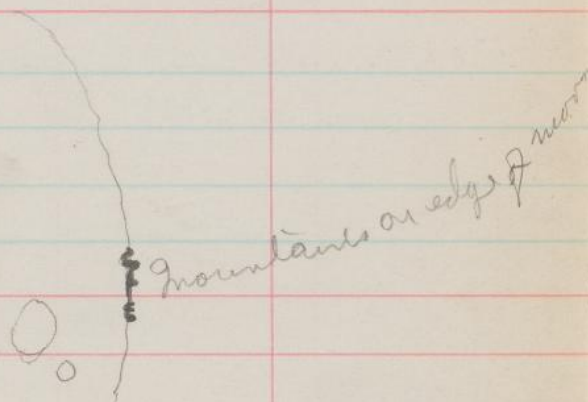
Wednesday 15 June 1927. (A.M.)
L. E. C. Ous.

E. D. S. T.

Observation of Lunar Eclipse with 15" Visual.
Photometer Cunningham attached to 4" Finder.
Watch 19.5 slow at 1406^m A.M.; E. D. S. T.

Am trying to compare edge of moon when shadow enters with other edge.

Clouds are thick and rapidly moving across moon.



2:13 The eastern edge of the moon, part above horizontal is certainly darkened. Along this it extends nearly to Lycho.

2:17 WNW edge dis. ESE edge comp. Settings 5.3 - 6.6 - 5.8.

2:23 10.0 - 12.0 - 14.8

2:25 In the one inch finder there seems to be a very noticeable edge to the shadow at about $\frac{1}{3}$ way from E to W limb.

2:27. It has been clear but now more and heavier clouds are coming. The shadow is just visible to naked eye.

2:30

18.6

2:33

35.8

15 June 1927

147

- 2:37 WNW edge dis ESE edge comp. Settings 48.0 —
Through heavy clouds but quite good. Very edge very
much darker than in a little. Near limit of photometer.
- 2:40 Moon invisible except in few breaks.
- 2:42 Moon very dark in E limit. Short breaks in clouds.
- 2:48 Partial phase well on - have been rather by clouds and
at this time many were passing over.
- 2:50 Easily seen with naked eye during break. Further
observations will probably be impossible due
to complete cloudiness.
- 3:38 Eclipsed edge seen passing through Mare
Serenitatis and Mare Tringulatis. Moon
quite bright in eclipse.

Wednesday - Thursday 15-16 June 1927

May. 6.4.

E. D. S. T.

Watch Line

1:32

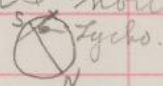
Occultation of 70 B. Sagittarii L. E. C. Osseff

Watch 18.50 slow.

10:55:30 pm

11:01:30 ± pm

Chronograph started at 10:55:30 Watch Line.
Long break. Star probably occulted about this time.
Could only follow it to within a few seconds of the
limit due to the terrible seeing. The star disappeared
at a point just slightly south of the north and
south coordinate of Lycho.



Arriving back at chronograph I found that
it had stopped just about the time of the
occultation.

Watch Line

11:40:40 pm

11:52:40 ±

Emersion of 70 B. Sagittarii.

Chronograph started.

Dash. * seen about 2^s previously, very faintly and very
close in.

11:55:40

Chronograph stopped.

12:09:45.5 pm

12:10:00 Standard Clock.

Thursday 23-24 June 1927.

149

102" Polar

C9 Cygni. (87 in field of Mars #3 Cygni) L. E. C. (Dr. Rec

ru = comp*
var dis -

Index I

Comparison star is (91) in same field, GA V socket.

352.0

92.0

100.0

173.0

95.4

268.4

195.4

+ 0.29

164.6

+ 0.105

358.0

83.3

85.3

175.8

90.6

- 0.08

266.4

175.9

am

4:05 watch
of June 24

Index II

269.5

352.8

83.3

or
16:05 1/2
June 23

92.9

78.3

171.2

161.6

- 0.35

- 0.275

- 0.185

270.1

Very poor alt.

353.0

82.9

90.8

86.2

- 0.20

- 177.0

179.1

- 0.02

6

Sky very hazy and dawn well advanced.
 First set only.

Tuesday - Wednesday 12-13 July 1927.
Occultations.
 15" Equat.

P.C. Obs + Rec

22:58:00 Balloon = 11:58:44 1/4 Watch Time.

Watch Time

Field of occultations.

a = 7^m

d. g. .h

c = 9^m

a. b

e.

b = 5 1/2^m

f.

d = 6 1/2^m f = 7 1/2^m

e = 7 g = 7^m

12:00:47 ±

First break in chronograph record.

12:02:50 ±

Rattle.

Star c is very faint.

12:26:13 ±

Star a disappeared. Good log in pressing key.

12:28:55 ±

Star b disappeared. Small log in pressing key.

12:29:30 ±

Rattle

12:38 ±

Chronograph found stopped Mr. Hogg reports that it just stopped as I arrived.

12:47:47 ±

Chronograph started second time.

12:53:00 ±

Rattle.

12:58:04 ±

Star d disappeared. Some log in pressing key.

1:06:08 ±

Star e disappeared. Small log in pressing key.

1:06:35 ±

Rattle.

1:12:20 ±

Rattle.

1:16:28 ±

Star g disappeared. Some log in pressing key.

1:19:10 ±

Rattle

1:23:10 -

Star b reappeared. Appropriate only.

1:25:48

Chronograph stopped

1:43:10

Chronograph started after difficulties with pen and rope.

1:52:15

Rattle

1:54:04

Chronograph stopped.

1:58:47

Chronograph started.

Watching for d and e to reappear. e seen well

12-13 July 1927.

151

out from limb. An erroneous dash was given followed by rattle. Dash was given when I was first seen, which was when it was a few seconds from limb as it was not where I expected it to be.

2:10:16 Chronograph stopped.

2:15:04 Chronograph started.

Useless to continue further because of altitude and faintness of stars.

2:18:40 Stopped Chronograph.

E.D.S. Time
used in above
obs.

Hours after
Midnight should be
counted $\frac{1}{13}$, $\frac{1}{14}$ etc

1:25:00 Ballou = 2:25:46 $\frac{1}{4}$ Watch Time

Mon Sept 5, 1927

E. S. T. J.

St from noon.
L.C. blue

J.T. = 18 03 at 7:51 DST

RZ Cephei 223564

Ind 270

comp + dis

7-34 00

169 6

220 8

51 2

350 0

51 1

401 1

102.3

+160

170 5

221 8

51 3

+157

350 6

53 6

404 2

1049

+154

Ind 90

263 2

309 0

458

838

447

1285

905

Mean = +177

190

2648

3048

400

833

455

197

1288

835

204

13 08
12 36 38
12 37 48

7-39 08

23129.526

22.342

Comp + =

0.184

7-15

St Cygni Est 11.3 du 12' mic

Repair focusing screen.

Sept 5 - 1927.

153

153

7-4455	$\begin{array}{r} \text{Ind. 90} \\ 2642 \\ 3096 \\ 800 \\ 1278 \end{array}$	$\begin{array}{r} 45.4 \\ 47.8 \\ \hline 93.2 \end{array}$	$+183$	II
--------	------------------------------------------------------------------------------	------------------------------------------------------------	--------	----

$\begin{array}{r} 2606 \\ 3144 \\ 798 \\ 1346 \end{array}$	$\begin{array}{r} 538 \\ 548 \\ \hline 1086 \end{array}$	$+164$ $+145'$
------------------------------------------------------------	----------------------------------------------------------	-------------------------------

$\begin{array}{r} \text{Ind. 270} \\ 3492 \\ 3988 \\ 1707 \\ 2262 \end{array}$	$\begin{array}{r} 496 \\ 553' \\ \hline 1051 \end{array}$	$\text{Mean} = +168$ $153.$
--------------------------------------------------------------------------------	-----------------------------------------------------------	--------------------------------------------

$\begin{array}{r} 3522 \\ 3970 \\ 1746 \\ 2196 \end{array}$	$\begin{array}{r} 448 \\ 450 \\ \hline 898 \end{array}$	172 192
-------------------------------------------------------------	---------------------------------------------------------	----------------------------

7-5055

12 47 55 ~~SWT~~

12 49 05 ~~SWT~~

$$\begin{array}{r} 25129.534 \\ 29.342 \\ \hline 0.192 \end{array}$$

Sept 5 - 1927.

7
~~7~~ - 57100

3508		
4028	520	
1729	468	
2197	<u>98.8</u>	+169

III

3507		+179
3962	455	
1713	453	
2166	<u>90.8</u>	+189

mean = +182

855		
1248	393	
2662	410	
3072	<u>80.3</u>	+219

751		
1312	561	+186
2616	486	
3102	<u>1047</u>	+154

8-02:28
59 28
 7 58 48
 12 59 58
 25129.542
 -29.342
 8.200

Sept 5 - 1927

8 14 54	<u>90</u> 80.2		
	1282	480	
	2484	642	
	3126	<u>112.2</u>	+1.37

	832		175
	1255	423	
	2672	398	
	3070	<u>821</u>	+213

<u>270</u>		mean = +176
------------	--	-------------

1716		
2140	424	
3533	450	
3983	<u>874</u>	+198

	1756		
	2216	460	176
	3452	388	
8 21:20	2040	<u>1048</u>	154

36 14

8 18 07

13 19 17

25129.555

27.342

0213

Sept 5-1927-

220

8-29 02

2672

2186

3477

4002

514

525

1039

+ 156

1692

2175

3505

3984

483

479

962

+ 166

+ 175

mean = + 182

20

266.7

3077

858

1255

410

397

807

+ 217

2626

3112

855

1311

486

456

942

+ 198

180

8-34 45

63 47

8 31 54

13 32 04

25729.565

29.342

0.223

Sept- 5-1927

157

	<u>94</u>		<u>VI</u>
8-40 45	2631		
	3091	460	
	793	499	
	1292	<u>959</u>	+176

2638			
3068	430		+180
827	<u>495</u>		
1322	925		+185

<u>220</u>			mean = +186
3546			
4026	480		
1753	<u>423</u>		
2176	903		+191

3494			
3950	456		+193
1723	432		
2155	<u>888</u>		+195

8-46:07	
<u>8 43 26</u>	
13 44 36	
25 129.572	
<u>29.342</u>	
0.230	

Sept-5-1927.

8-57.10

270

3467

4017

1702

2204

550

502

1052

153

VII

3522

3979

1704

2217

457

513

970

+ 163

+ 173

Mean = + 188.

90

838

1268

2674

3090

430

416

846

206

892

1255

2612

3049

363

437

800

212

9-02.50

219

9 02.56

10 01.10

25129.583

29.342

0.241

Sept 5-1927

VIII

9-12:37. 90
 83.7
 1242
 2655-
 3089
 405
 434
 83.9
 +208

833
 1300
 2638
 3092
 467
 454
 92.1
 +197
 +186

274
 1748
 2158
 3567
 3952
 410
 385-
 79.5
 Mean = + 198
 221

1717
 2169
 3486
 3948
 452
 462
 914
 200
 188

9-17 23
 9 15 00
 14 16 10
 25729.594
 29.342
 0.252

Sept 5-1927

$\overline{220}$
 9-23138 1716
 2227 511
 3472 548
 4010 1059 +151

169.1
 2174 483 +167
 3538 450
 3988 93.3 +183
 Mean = +188

$\overline{90}$
 2714 3
 3034 ~~20~~
 869 382 +219
 1251 780.2 ~~250~~
 return original ...

2674 224
 3119 +209
 834 445-
 9-28'25" 427
 2 63 872 +199

9 26 02

14 27 12

25 129 602

29 342

9 43 360

Requin getting near zenith

Difficult to get observations.
 Watch used = 1 m 10² slow

Thurs Sept 8/1927

L.C. obs

EST

ST. = 18:2408 8 00 EST

from
noon

P2 Ceph.

223564

Comp ~~*~~ dis

I

ind-90

7-2820

82.0

1290

470

2692

442

3134

91.2

+1.88

+2.04

~~+1.54~~

882

1282

400

2692

396

3088

79.6

221

2.06

Mean = ~~1.82~~

ind 270

1792

2174

382

3562

484

3946

86.6

201

1783

2168

385

3548

422

+2.09

7.34110

3970

80.7

217

723115

25112522

72428

0.094

Sept 8 - 1927

Dec 270

H

7-41 35

177.7

2196

3506

4040

4.19

534

95.3

+177

1776

2176

3560

3940

400

380

78.0

+201

+225

Dec 90

mean = +192

2668

3102

892

1258

434

466

90.0

+191

2548

3077

858

1305

529

447

97.6

+182

+172

7-4653

8 30

7 44 15

12 44 15

25132.531

32.428

0.103

Sept 8192.7

III

7-57'63 Pa 90
 2642
 3098 45'6
 840 45'8
 1298 914 +188

2675
 3098 423 179
 862 560
 1322 983 170

Pa 270 Mean = + 182
 3560
 4004 444
 1742 465
 2207 90.9 189

353.8
 4004 466
 1746 466 +186
 2212 93.2 183

801-53
 118 56
 759 28
 1259 28
 25132.541
 33428
 0.113

Sept 8-1927

Pa 270

IV

8-10.50

3548

4004

456

1764

464

2228

92.0

+186

3558

4006

456

+183

1735

487

2222

94.3

+180

Pa 90

Mean = +184

84.8

1342

494

2654

46.8

3122

96.2

+175

852

1287

435

+184

2672

460

3132

89.5

+173

8-15.30

6 20

13 13 10

257 32.57

32.42 A

0.123

Sept 8 - 1927

	Op 90			<u>✓</u>
8-2550	83 3			
	131 3	48 0		
	264 0	45 8		
	309 8	<u>93.8</u>	+181	

820			+174
130 0	48 0		
263 2	51 4		
314 6	<u>99.4</u>	167	

	Op 270		Mean = + 174
	175 9		
	222 2	46.3	
	351 2	51 8	
	403 0	<u>98.1</u>	+170

	173.8		
	219 3	45 5	+174
	350 7	49 1	
8 3045	399 8	<u>946</u>	179
56 35			

~~8-2550~~

13 28 18

25732.561

32.523

0.133

166

Sept - 8 - 1927

8-4130

Pg 270

1288

2264

3526

3976

576

450

1026

+159

VI

1764

2186

3560

3988

422

428

850

182

205

Pg 90

2668

3114

80.8

1355

446

547

99.3

Mean = + 178

+167

2613

3123

810

1360

510

560

1070

138

149

8-46:35

8 05

13 44 02

25 32.572

32.428

0.144

Sept 8-1927

9-00 30
 2642
 8133
 850
 1314

491
 464
 935

+1.77

2640
 3122
 860
 1348

482
 488
 97.0

+178

+173

P9270

3504
 4020
 1750
 2238

516
 488
 1004

Mean = +172

165

3518
 4040
 1776

522
 453
 975

+168

172

9-05 10
 5-40

2229

14 02 50

25732.585

32.428

0.147

5

Sept. 8-1927

9-14.40 $\begin{array}{r} 3528 \\ 3988 \\ 1762 \\ 2198 \end{array} \begin{array}{r} 460 \\ 436 \\ \hline 896 \end{array} +192$

VIII

$\begin{array}{r} 3510 \\ 4838 \\ 1738 \\ 2227 \end{array} \begin{array}{r} 528 \\ 489 \\ \hline 1017 \end{array} \begin{array}{r} +180 \\ 167 \end{array}$

Pa 90
 $\begin{array}{r} 833 \\ 1306 \\ 2670 \\ 3108 \end{array} \begin{array}{r} 473 \\ 438 \\ \hline 911 \end{array} \begin{array}{r} \text{Mean} = +179 \\ 188 \end{array}$

$\begin{array}{r} 873 \\ 1333 \\ 2626 \\ 3152 \end{array} \begin{array}{r} 460 \\ 526 \\ \hline 986 \end{array} \begin{array}{r} 178 \\ 169 \end{array}$

9-19.50
 4

4 30
 14 17 15
 25 132.595
 32.428
 0.167

Region getting too high
 for good observations.

Thurs. Sep 8 1927

EST
from noonWet obs. 15" Σ Equatorial.

11.50

SS Aur

060547

in vis

< 12.4

v. low.

moon

170

Friday September 9 - 1927.

L.C. obs.

SX Ursa Majoris 132256

P.A.

7-25

Variable too faint in moonlight
and clouds for tonight

Too cloudy to continue.

12.15

SS am too hazy to see field

WSTW obs.

EST
noonMonday Sept 12 - 1927

171

LC obs
~~7.40-7~~
~~21.40-7~~

R I Cph. 22 35'64
 PA 90

886	Comp * des.	
1278	392	
2628	449	
3077	84.1	+208

I

862		+202
1307	445	
2648	439	
3087	88.4	+196

PA 270
 3568
 3948 380
 179.9 373
 2172 75.3 Mean = +214
 +2.34

3360		
3964	404	226
1574	398	
2172	80.2	219

7-27 10
50

7 24 25
 12 24 43
 5136.517
36.441
 0.076

172

Sept 12 - 1927

PP 270

7-29 30

3566

3948

1794

2167

382

373

$$\begin{array}{r} 382 \\ 373 \\ \hline 755 \end{array}$$

+233

3582

3920

1814

2154

338

340

$$\begin{array}{r} 338 \\ 340 \\ \hline 678 \end{array}$$

+258

+246

PP 90

87.8

1278

2684

3064

400

380

$$\begin{array}{r} 400 \\ 380 \\ \hline 780 \end{array}$$

225

Mean = +235

86.6

1256

2656

3058

390

402

$$\begin{array}{r} 390 \\ 402 \\ \hline 792 \end{array}$$

+224

7-34:50

20

12 32 28

5136.522

36.441

0.081

+222

Sept 12 1927

7-⁴⁰~~38~~ 12

PA 90

830	
1280	450
2666	440
3106	<u>890</u>

+194

880	
1286	406
2677	397
3074	<u>803</u>

+206

219

PA 270

Mean = + 225

1775	
2128	353
3590	332
3922	<u>685</u>

+256

244

1792	
2163	371
3566	390
3956	<u>761</u>

231

7-45⁰⁸
5-20

12 42.58

5736.538

36.461

0.089

Sept 12 - 1927

7 53 20

PA 270

1988

2374

198

588

386

390

776

+ 227

TV

200.0

2363

188

580

363

392

765

230

233

PA 90

2884

3298

1096

1480

414

384

798

Mean = + 225

220

2886

3274

1060

1474

388

414

802

220

219

7-58:20

11 40

12 56 58

5136.539

36.441

0.098

Sept 12 1927

8051.00

P9 90			
2860			
3286	426		
10.78	422		
1500	<u>848</u>	+206	

2858			
3274	416		
1066	409	+209	
1475	<u>825</u>	+212	

(P9 270)

182			
536	354		
2008	392		
2400	<u>746</u>	+236	

Mean = 220

166			
556	390		232
2000	384		
8-10 14	<u>774</u>	227	

15 18

8 07 37

13 07 55

5136.547

26.4551

0 10 6

Sept 12 - 1927

8-15 23

PA 270

18.4

577

393

201.4

366

2380

75.9

+2.32

VI

182

577

395

+222

198.0

428

2408

82.3

+213

PA 90

Mean = + 212

111.2

149.4

382

286.8

436

330.4

81.8

+21.4

1100

202

1528

428

2842

476

3318

190.4

190

8-20:17

35 40

8 17 50

13 18 08

5136.554

x.441

0.113

Sept 12 1927

24	(79 90)		
8- 72 34	106.4		
	1500	436	
	290.4	304	
	3298	<u>740</u>	+2.38

1058		
1505	447	213
2848	465	
3313	<u>912</u>	+188

(79-270)		mean = + 240
2000		
2398	398	
196	372	
568	<u>770</u>	228

1974		
2464	490	206
160	438	
8-2930	<u>598</u>	184
	928	

13 27 02

13 27 20

5730.580

26.001

0.119

Sept 12 - 1927

8-39-10

Pg 270

1948

2428

106

586

480

480

960

+176

VII

1953

2430

136

604

477

468

945

+178

+180

Pg 90

2870

3294

1080

1500

424

420

844

Man et 184

+207

2864

3324

1050

1555

460

505

965

190

174

8-4403

83 13

13 41 54

5736.571

36.441

0.130

Sept 12 1927

179

8 47:19 ~~Sept 90~~
 2833
 3333 500
 1021 535
 1536 1035 +157

2880
 3338 438 168
 1012 490
 1502 948 179

~~Sept 270~~
 134
 614 480
 1963 481
 2444 961 +175

Mean = + 171

10.0
 61.0 510 174
 1968 405
 2423 965 174

8-52:35
99 56
 8 49 57
 13 50 15
 5136.576
86 641
 0.135

180

Sept 12 1927

9-01 31

PP 270

15.2

622

1978

2436

470

458

928

+184

122

602

1963

2423

480

460

940

+182

+181

PA 90

1036

1510

2884

3329

474

445

919

mean = +183

+186

1006

1502

2862

3308

496

438

934

184

182

9-05 30

9 03 30

14 03 42

5136.585

2.441

0.144

Sept 12 1927

9-07.50	$ \begin{array}{r} \text{PP 90} \\ 1062 \\ 1032 \\ 2880 \\ 3318 \\ \hline \end{array} $	$ \begin{array}{r} 470 \\ 438 \\ \hline 908 \end{array} $	$ \begin{array}{r} \text{XI} \\ 189 \end{array} $
---------	--------------------------------------------------------------------------------------------------	------------------------------------------------------------------	--------------------------------------------------------

$ \begin{array}{r} 1042 \\ 1538 \\ 2852 \\ 3330 \\ \hline \end{array} $	$ \begin{array}{r} 496 \\ 478 \\ \hline 974 \end{array} $	$ \begin{array}{r} +180 \\ +172 \end{array} $
---------------------------------------------------------------------------------	------------------------------------------------------------------	----------------------------------------------------

$ \begin{array}{r} \text{PP 270} \\ 1924 \\ 2444 \\ 118 \\ 612 \\ \hline \end{array} $	$ \begin{array}{r} 420 \\ 494 \\ \hline 914 \end{array} $	$ \begin{array}{r} \text{mean} = +186 \\ +188 \end{array} $
-------------------------------------------------------------------------------------------------	------------------------------------------------------------------	------------------------------------------------------------------

$ \begin{array}{r} 1975 \\ 2390 \\ 140 \\ 600 \\ \hline 91241 \end{array} $	$ \begin{array}{r} 415 \\ 460 \\ \hline 875 \end{array} $	$ \begin{array}{r} 193 \\ 198 \end{array} $
--------------------------------------------------------------------------------------	------------------------------------------------------------------	--------------------------------------------------

$$\begin{array}{r}
 91 \\
 141604 \\
 5126.591 \\
 \hline
 36.441 \\
 0.150
 \end{array}$$

Sept 12/1927

9 1640 Pa 270 XII

196 0	
240 4	444
8.4	538
622	<u>982</u>

+1.70

197 8		+164
243 2	454	
148	574	
622	<u>1028</u>	+159

99-90 Mean = + 168

2840	
3358	518
1042	302
1544	<u>1020</u>

+161

2866		172
3336	470	
1078	436	
1534	<u>926</u>	184

9-22 00

9 19 20

14 19 32

9 45

Watch used = 18^s slow

5136.597
 10.441
 0.154

Sept 12/1927

9 27 30	Pg 90		<u>XIII</u>
	288.2		
	3336	454	
	1028	512	
	1540	966	+174

2827			
3310	483		178
1100	458		
1558	941		+181

Pg 270		Mean = +171
108		
643	535	
1970	460	
2430	995	167

10.2		
638	536	164
1970	483	
2453	1019	161

9-32 37
 9 30 04
 14 38 22

Region too high to
Continue

5736.604
 76441
 0.163

Thursday Sept 15 - 1927

ST = 1A:35 at 7:44 E. D.S.T.

220 RZCap 223564

6 56.00

17 2

59 2

420

206.7

331

239 8

75.1

+234

Comp. X dis - I
Phot T

108.4

+204

1532

448

2877

413

3290

861

+202

90

Mean = +204

1068

1516

2898

3260

448

362

81.0

+217

1944

2474

530

166

442

608

97.2

+173

204

7-01 35"

117 35"

6 58 48

11 58 13

~~255~~ 25139.499

39.219

0.220

Thursday Sept 15-1927

7-03:40 290
 1978
 2388
 164
 606
 410
 442
 852
 +205

1988
 2399
 159
 578
 411
 419
 830
 +208
 +211

90
 2856
 3298
 1098
 1492
 452
 394
 846
 Mean = + 202
 206

2898
 3289
 1097
 1484
 391
 387
 77.8
 216
 226

7-05-06

12-05-31

25-39 504

8.219

0.285

Sept 15 - 1927

7-14:00

PP 90

2964

3260

1092

1464

356

372

728

+242

III

2868

3328

1067

1507

460

440

900

+216

+191

PP 270

180

598

1974

2396

418

422

840

mean = 212

208

154

614

1972

2358

460

386

846

207

206

7 19 57

13 07

16 34

12 15 59

25139.511

39219

0.292

Sept 15 1927

2127106	<u>270</u> 163 618 1950 2402	455 452 <u>907</u>	<u>TV</u> +190
---------	------------------------------------------	--------------------------	-------------------

185 585 200.6 2426 <u>90</u>	400 420 <u>820</u>	+202 +214
------------------------------------------	--------------------------	----------------------

mean = 204

107.0 1538 2872 3306	468 434 <u>902</u>	+191
-------------------------------	--------------------------	------

1084 1488 2887 3274	404 387 <u>791</u>	+206 +222
------------------------------	--------------------------	------------------

~~723200~~
 59 06
 7 29 33
 12 28 58
 25139.521
39.219
 0.362

Sept 15 1927

7-34 35	<u>90</u> 1084 1471 2885 3295	387 410 <u>79.7</u>	+220
---------	-------------------------------------------	---------------------------	------

1082 1025 2872 3308	443 336 <u>77.9</u>	+223 226
------------------------------	---------------------------	-------------

<u>12701</u> 200.4 2384 152 60.8	380 456 <u>83.6</u>	Mean = +222 +209
----------------------------------------------	---------------------------	---------------------

1993 2374 188 555	381 367 <u>74.8</u>	222 235
----------------------------	---------------------------	------------

7-39 00
13 35
7 36 48
12 36 13
2519.525
39.219
<u>2306</u>

Sept 15-1927

94710	PA 270		<u>VI</u>
	1996		
	2378	382	
	198	368	
	1980	<u>750</u>	+235
	566		

	1998		
	2372		
	173	374	+231
	574	401	
		<u>775</u>	227

	<u>PA 90</u>		Menu = + 226
	2828		
	3268	440	
	1074	424	
	1498	<u>864</u>	201

	2878		
	3249	371	220
	1098	366	
	1464	<u>737</u>	239

7-53 53
<u>13</u>
7 58 06
12 49 31
25789 535
<u>39.520</u>
0.007

Sept 15 - 1927

802:28	PA 90			VH
	2868			
	3308	440		
	1904	362		
	1466	<u>80.2</u>	+219	

2887			
3266	379		+224
1100	392		
1492	<u>77.1</u>	228	

Mean = +212

270		
<u>1168</u>		
378	410	
1957	457	
2414	<u>867</u>	200

1		
116		
394	478	200

07-32	2002	388	
8-32-67	2390	<u>866</u>	201

10 00
8 05 00
13 04 25
25139.564
<u>3954</u>
0.016

Sept 15-1927

8-1410	<u>270</u> 126 588 1974 2398	<u>462</u> <u>424</u> 88.6	+195	<u>VII</u>
--------	------------------------------------------	----------------------------------	------	------------

	146 392 200 6 240 9	446 <u>403</u> 849	+200 205-
--	------------------------------	--------------------------	--------------

	<u>90</u> 107.2 1484 2864 3272	412 <u>408</u> 820	Mean = + 209 214
--	--------------------------------------------	--------------------------	---------------------

8 19109	1092 1459 2898 3318	367 <u>420</u> 78.7	+218 223
---------	------------------------------	---------------------------	-------------

13 19
8 16 40
13 16 05
25139.553
39.522
2025

Sept 15 - 1927

8-27.20	90		
	1100		
	1486	386	
	2876	384	
	3260	<u>770</u>	+228

	1068		
	1468	400	+220
	2875	430	
	3305	<u>830</u>	+2.11

<u>12701</u>		Mean = 220
--------------	--	------------

	197.5		
	2322	347	
	185	390	
	575	<u>73.7</u>	+239

	1982		
	2371	389	+220
	122	478	
	600	<u>867</u>	200

8-32.18
<u>59 38</u>
8 29 49
13 29 14
25119.562
39528
<u>0.034</u>

Sept 15-1927

8-42:00 ~~1270~~ 1
 1977.
 2370 393
 180 334
 514 72.7 242

1996
 2382 386 +233
 148 400
 548 78.6 +224

~~1901~~ ~~3280~~ Mean = +220

1048
 1462 414
 2868 454
 3322 86.8 +200

1052
 1469 417 208
 2882 396
 3278 81.3 266

8:50:35

~~25~~

93 25

8 46 41

1346 06

25139.574

39.522

4046

Sept 15 1927

39
8 ~~38~~ 15

PP 90

1096

1438

2902

3312

342

410

752

+234

XI

1000

1416

2870

3290

416

420

836

+222

+209

12701

1986

2374

162

610

388

448

836

Mean = +214

+209

1968

2404

150

374

436

424

860

206

202

9-0600

515

9 02 38

14 02 03

25 39.585

39.528

0.057

Sept 15-19, 27

9	<u>270</u>			<u>XII</u>
8-12-25	1975			
	2387	412		
	17.7	371		
	548	<u>78.3</u>	+225	

200.8		+234
2348	340	
182	384	
566	<u>72.4</u>	+243

<u>190</u>		Mean + 224
2868		
3292	424	
1046	446	
1492	<u>87.0</u>	+2,00

288.8		215
3278	390	
1078	374	

9-17-30	145.2	<u>76.4</u>	230
2955			

9 14 50
14 14 23
25 139.593
39.520
<u>0.065</u>

196

Sept 15-1927

PA 90XIII

9-24 35

2918	
3282	364
1082	306
1438	<u>720</u>

+244

287.4

3304 430

+216

1030 478

1508 908

189

PA 2701

Mean = +231

188

355 367

2022 330

2352 69.7

252

158

508 350

246

2014 386

2410 73.6

239

9-29-20

13	55
9	26
14	26
25	23
39	601
39	528
0.073	

Moon rising and region getting
zenith

9 45

Watch used = 35 fast

Friday Sept. 16 - 1927

LQ obs.

Photometer R.

EST from 7m

R Q Cephei

22356.4

6 PA 270

6-51 22 20.0

Comp. x dis.

I

55.8

358

200.6

346

235.2

704

+2.49

174

574

400

+236

200.0

384

238.4

78.4

+224

PA 90

Mean = + 2.28

110.8

149.8

390

288.8

409

329.7

79.9

+220

109.2

148.6

394

+219

285.6

411

6-56.20 326.7

80.5

+218

742

6 53 51

11 53 13

25140.4895

40.207

-0.286

0.041

198

Sept 16 - 1927

5
7-~~11~~-33

Pa 90

II

108.8

1486

2861

3300

398

439

83.7

+209

1086

1505

2903

3263

419

360

77.9

+218

+226

Pa 270

Mean = + 219

1976

2337

148

568

361

420

781

+225

1996

2373

15.8

398

377

440

81.7

+220

+214

7-10:0

15 33

) 07 46

12 07 f

25140.505

209454

0.296

0.051

Sept 16 - 1927 -

R270

III

7-15.15

2018

2385

367

172

434

606

801

+219

2018

2378

360

+233

184

350

534

710

+247

R90

Mean = +226

287.7

3244

367

1102

394

1496

761

231

2868

3270

412

220

1078

424

7-20.20

1492

836

209

35 35

17 48

12 10

21560.112

120945.4

0.303

0.058

200

Sept 16 - 1927

	Pa 90		IV
7-27 20	2878		
	3289	411	
	1092	408	
	1500	81.9	+214

2890		+216
3286	396	
1079	409	
1488	80.5	+218

Pa 270		Mean = +236
208		
562	354	
2000	372	
2372	72.6	+24.2
	1	

226		+236
342	316	
2018	330	
2348	64.6	+269

7-32 03
 59 23
 7 29 42
 12 29 4

25140 520

.812 454

.003 0066

Sept 16 - 1927

7-3604	Pa 270			<u>✓</u>
	130			
	580	450		
	2002	410		
	2412	860	+202	

	158			
	567	409	+216	
	2032	356		
	2388	765	+230	

	Pa 90			
	4107			
	1494	387		
	2914	354		
	3268	741	237	

mean = + 219

	1057			
	1498	441	222	
	2894	406		
	3300	847	206	

7:40:40
 7 32 22
 12 37 44
 215 40.526
 .517 454
 0.009
 0.072

52 97
 12 37 44

Sept 16 - 1927-

59 90

9 46 40

1040

1488

448

1996

284

3250

73.2

+240

1078

+224

1498

420

2882

416

3298

836

+209

79 270

Mean = + 2128

1980

2360

380

172

400

572

780

+225

2015

2358

343

232

156

384

340

727

242

7-51 15

97 55

7 48 58

21 48 20

21540. 533

517454

0.016

079

Sept 16 - 1927

7-~~1157~~ 2002

2358

226

542

356

316

672

+260

VII

1976

2360

200

545

384

345

729

+250

+241

Op 90

2888

3278

1867

1502

390

435

825

Mean = + 2.22

212

2886

3318

1077

1530

532

423

955

194

177

8-02 25

59 30

7 59 45

12 59 7

21540.541

1577 458

.024

0.087

Sept 16 - 1927

8-12:40

Pa 90

287.9

3286

1066

1490

407

424

83.1

+210

VIII

2863

3333

1017

1513

1470

496

96.6

192

174

2.06

Pa 270

21.4

527

1962

2394

313

432

845

Mean = + ~~325~~

269 236

162

602

1984

2387

440

403

84.3

221

238

207

8(17:20)

18 00

8 15 00

13 14 22

21540.551

517454

034

097

Sept 16 - 1927

Pp 270

IX.

8-23:00

128

574

446

1947

421

2368

867

+2.00

186

+214

578

392

199.8

384

2382

776

+227

Pp 90

Mean = +

2.04

1036

1513

477

2873

479

3352

95.6

+177

1053

1475

422

+195

2898

400

8.27-50

3305

822

+213

A 25 25

Comp $\star = \star @ 22^{\circ} 37' + 64^{\circ} \text{deg. } 15''$
 (1255)

132442
 21540.659

Comp \star follow variant 2^m same dec.

577
 0.052
 0.105

$= \Delta m \times 68^{\circ}.1701 (6.4) 2.35'' \hat{A} f$
 phot. mag. = 2.55

Sept 16 - 1927

8-34 30	Pa 90			X
	1078			
	1527	449		
	2857	441		
	3298	<u>890</u>	+194	

1028			180
2543	515		
2848	480		
3328	<u>995</u>	+167	

Pa 270			mean = 182
1957			
2455	498		
8.0	528		
608	<u>1026</u>	159	

1968			185
2372	404		
163	425		
588	<u>829</u>	211	

8-39:40

14	10
8	37 05
13	36 37
21540.567	

9 00

2574
<u>050</u>
0.113

Watch used = 38^2 fast

Sept 16 - 1927

XI

Monday 16 June 1930.

Searched for comet Forbes
1930e without success
with 15".

Position (1855.0) $21^{\text{h}} 40^{\text{m}} - 16^{\circ} 0$

Thursday 19 June 1930.

Forbes Comet 1930e

1855.0 20^h21^m -9°00'

Examined this region with 15"
without success.

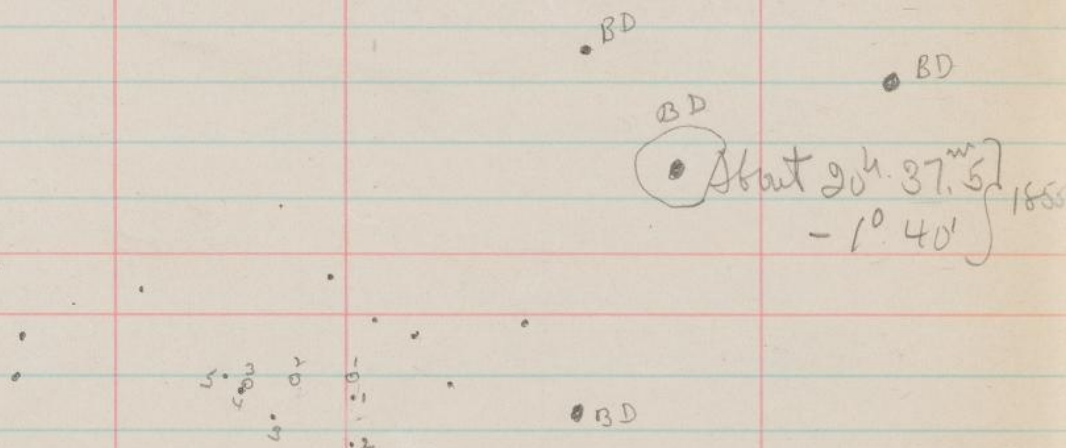
Shy bright with light haze and
moonlight.

Sunday 22 June 1930

15" Equot.

All times from Sidereal Watch A.

LEC ⁰⁰⁵ Per



Comet appears a small, faint hazy patch with noticeable central condensation with low power (large eyepiece). With 2" eyepiece it appears as very small and condensed faint spot not many times greater in diameter than a star image.

Diameter with 2" eyepiece not greater than one fourth distance from star 4 to star 5.

Diameter with large eyepiece intermediate between distance 3-4 + 4-5. Brightness (with 2" eyepiece) greater than 1 and fainter than 2 and nearest 2.

Position 1 20h 36m

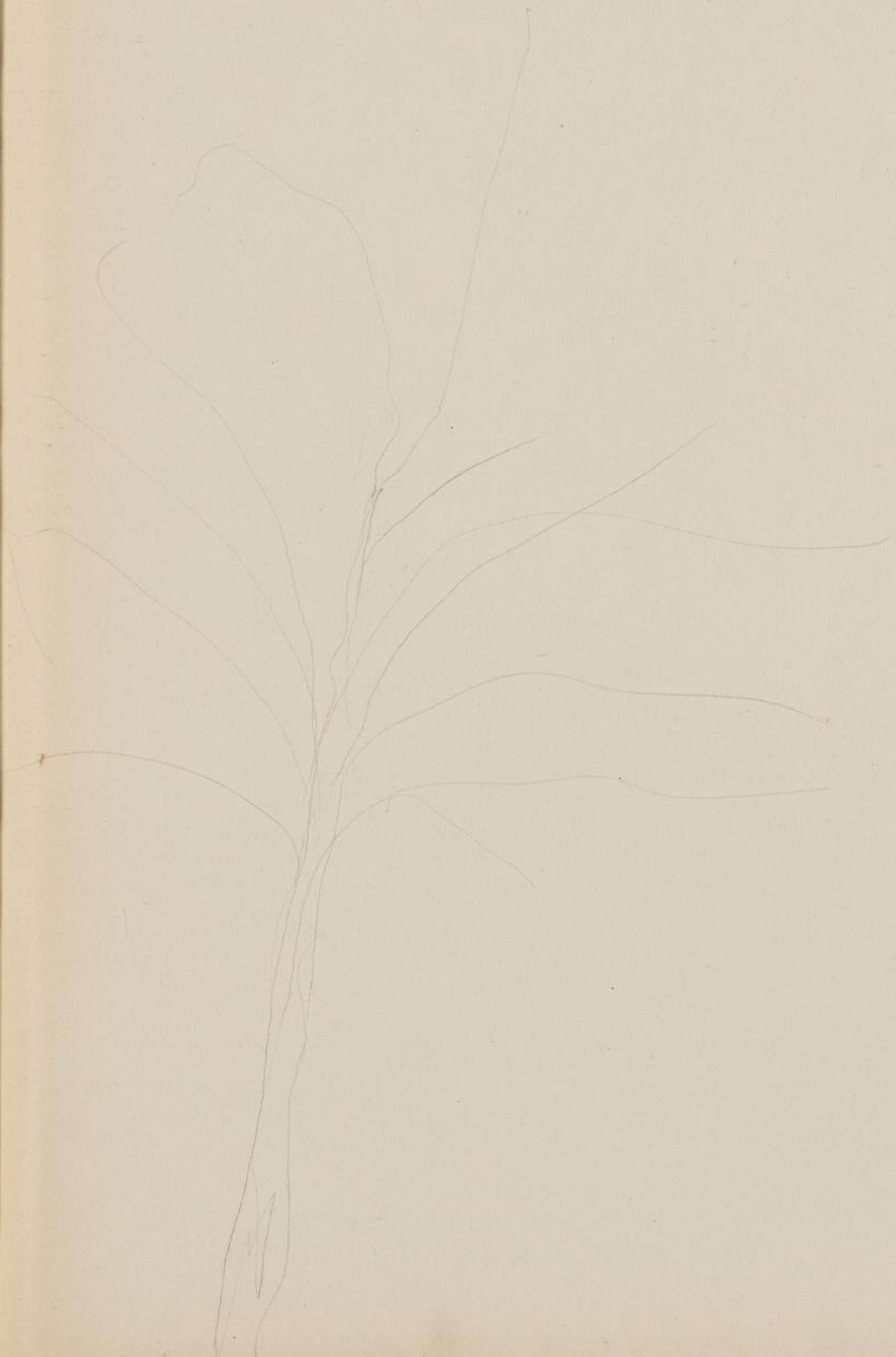
2 20 45

3 20 55

Dark showing.

855

6



1926phae.proj..630C