

KG

11366

v. 846

Fundamental and Zone Star
Circle Readings
from Feb. 19 1885 to June 1 1885

1885

List of Stars to be observed for a summer stair in Paris

my h ~ 5'

1881

17 rain ^{ny h m s} 4 3 37.56 + 23 45 Jan. 10 Jan. 14 Jan. 18 Jan. 19 Jan. 21 Jan. 22 Jan. 26 Feb. 5
 25 " 3 3 40.32 + 23 45 Jan. 10 Jan. 14 Jan. 17 Jan. 18 Jan. 19 Jan. 21 Jan. 22 Jan. 26 Feb. 5 Feb. 8
 27 " 4 3 42.12 + 23 42 Jan. 14 Jan. 17 Jan. 18 Feb. 5 Feb. 8

Stars in Ecliptic

x a	4	1	3	41.49	-23	36	Jan. 31	Feb. 2	Feb. 3	Feb. 7	Feb. 12	Feb. 17	Feb. 18	Feb. 19	Feb. 21
+ b	56	3	42.38	-24	14	Feb. 7	Feb. 18	Mar. 6	-14	-17					
x c	7	3	41.56	-25	13	Jan. 10	Feb. 2	Jan. 23							
x d	7	3	41.44	-25	43	Feb. 3	Feb. 12	1886	Jan. 6	-14	-17				
+ e	7	3	43.5	-26	9	Jan. 31	Feb. 2	Feb. 3	Feb. 12	Jan. 23					

x a	7	8	23	33	4-0	34	Feb. 21	Feb. 23	Feb. 25	Mar. 2	Mar. 3	Mar. 4	Mar. 8	
+ b	78	8	23	9	5+0	5	Mar. 6	-17	-21	-23	-25	Apr. 9		
x c	78	8	22	14	4+0	38	Mar. 12	-14	-19	-30	Apr. 1-6			
+ d	80	8	21	29	3+1	13	Feb. 21	Feb. 23	Feb. 25	Mar. 2	Mar. 3	Mar. 4	Mar. 6	Mar. 8
+ e	78	8	19	45	2+1	57	Feb. 23	Feb. 25	Mar. 3	Mar. 4	Mar. 6	Mar. 8	Mar. 10	
+ f	67	8	19	31	1+2	29	Feb. 23	Feb. 25	Mar. 2	Mar. 3	Mar. 4	Mar. 6	Mar. 8	

a	7	20	45	56	+49	91								
b	78	20	45	55	+50	21								
c	67	20	46	11	+50	53								
d	6	20	45	11	+51	29								
e	6	20	44	23	+51	67								
f	6	20	42	58	+52	34								

8

10

5

Feb. 23 11

5

4

5

6

Mar. 10 Mar. 12-14-29-30 Apr. 6 13

6

6

Mar. 10-17-18-21-23-25 Apr. 1-6-9 17

Mar. 12-14-17-18-19-21-23-25-29 Apr. 9 17

Mar. 10 Mar. 12 Mar. 14-17-18-19-21-23-25-29-30 Apr. 6-9-16 21

Observations

Aug 19-20 Oct 17-18-26 (27) Nov. 4. 10. 16. 17 9

Aug 16 Oct 12-14-17-18 (20) Nov. 12. 15. (16) 7

Aug 15, (16), 18, ^{Sept-30} Oct 1, 5, 10, 11 7

Aug 15-18-22 Oct 20-26 (27) Nov. 4. 10 11 7

Aug 15, 16, 18, 19, 20, ^{Sept-30} Oct 1, 5, 10, 11 10Aug 15, 16, 18, 19, 20, ^{Sept-30} Oct 1, 5, 10-11-12-14 11

Feb 18 1850

240^m

402 530
 405 530
 387 540
 358 536
 330 521

 1982 157

 3964 5314
 3964

 13258
 668

Set at 668

341 49

-23 36

342 38

-24 14

31-3 550 592

~~11.2 11~~

141 138

52 5-1

39 488 480

7.38

A+1

(Not seen)

5-6 24
 +5227

5-7 4
 +5451

5-12 16
 +5133

351 528
 91) 0.9
 128

 55.2
 37 0.42

A+1 A-1

Dm

4 3546

911 Rij ✓

Fall #

A-1

4 5656

752 0

86

m a ✓

A+1

4 574

749 5-9

981 No ✓

A-1

5-11 56

751 21

5-13 55

750 32

5-17 37

758 57

410 3 106

9.0 261

383

202

43 25.80

A+1

30 2 585

8.2 68

187

1.1

33 6.52

540 491

9.2 56.0

67

498

5- 55.40

A+1 A A-

6

T-26-19

J Lepus

5-27 13

-17 55

Dm

8.6
5 37 5

+51 24

J Lepus

5-39 15

-22 30

55-3 272

288

418

341

58

3222

32.89

40 0 160

86) 232

382

16.7

441 40 23.52

30 2 55.5

54.8

10.9

1.2

33

0.54

Dm

5-50 32

~~55 33~~

+54 6

5-57 12(5)

+51 25

B Auger

45110

+44 56

5-3 297

36.9

49.8

31.2

8.36.90

W Lepus
5-41 17
- 14 52

S Lepus
5-45 56
- 20 53

S Lepus
(5) 4 50 8
+ 574 16

55 2

55 2 58
4.7
2.1
1.5

57 4.42
1052

45 2 405
480
3.2
6.8

47 51.63

DM
New Sheet
5 57 42
+ 1 25

22 76 Camery
6 6 16

40 0 36.1
43.2
5.2
3.1

40 43.65

+ 65 2 2
40 4 212.3 252
29.9 350
43.3 477
22.1 258

44 29.12 43 3330
5582

8

Feb 19

ψ, Augie
 6 16 7
 +4821

2 Lynx
 62 7 16
 +6135

40 4 178
 250
 400
 211

 44 25.98

30 0 562
 18
 168
 558

~~30~~ 4765
 31 2.65

51 Aug

63045

73525

3508.0

14.0

269

9.7

 35-14.90
 4-1

15-Lynx

65724

75834

Feb 21 1885

$$\begin{array}{r} h \sim j \\ 34 \ 14 \ 9 \\ -2336 \end{array}$$

$$35 \ 4 \ 32 \ 38$$

$$5 \ 7 \ 51$$

$$214 \ 212$$

$$112 \ 116$$

$$39 \ 1038 \ 1042$$

$$\begin{array}{r} h \sim j \\ 34 \ 238 \end{array}$$

$$-24 \ 14$$

Not seen

$$\begin{array}{r} \text{Sun} \\ 4 \ 5 \ 6 \ 66 \\ +49 \ 59 \\ +52 \ 0 \end{array}$$

$$50? \ 0 \ 51$$

$$128$$

$$274$$

$$88$$

$$5 \ 13.52$$

free #1, w #87

Pr. # on 1, 2-4? not

$$\begin{array}{r} \text{Sun} \\ 4 \ 5 \ 7 \ 4 \\ +49 \ 59 \\ 5 \ 7 \ 4 \\ +54 \ 57 \end{array}$$

$$10 \ 4 \ 388$$

$$418$$

$$08$$

$$42.0$$

$$14 \ 46.85$$

No other # seen

DM 24 10 Camels
 43719 43546 95816
 $+5741$ $+5350$ $+6016$
 20387 103580 454270
 9.6 156 36.0
 318 (119.3) 510
 11.8 (29.4) 291
 23 16.82 49 35.78

$2^{nd} J M$
 Perhaps this applies to this #
~~But this is not a~~
 Turn # on A+1
 Decid # on A-1

DM $5-1216$ $5-1350$ $5-1023$
 3 $+5133$ $+5012$
 3 20.1 35435.2
 9.6 210 44.2
 422 0.0
 230 40.0
 31 28.32 39 44.85
 4 $no \checkmark$ $A_{-1} (3-5)^2$ $A_{-1} 123?$

Feb 21

2 Leporis
5-27 13
-17 55

Dr
5-26 15
+53 44

Dr
5-27 5
+51 24

55 2 270
282
447
366
57 34.12

20 0 528
12
152
558
21 1.25
A+1

40 1 159
247
356
212
41 25.35
A-1?

Dr

5 5742
+51 21

~~6 8 15~~
~~6 2 45~~
~~+55 41~~
+54 18

¹²
6 18 21
+54 19

35 2 487
580
139
587
37 5857

45 2 112
91 201
80 338
146
47 1992

45 0 488
90 558
82 88
572
45 5640

A-1

Rej order
91 on A, at board,

80 on A
One telling for better #

Rej on
2nd pr.
80 on A+1
82 on 2nd A-1

$$\begin{array}{r} 2 \text{ Lepus} \\ 5-3015 \\ -2230 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \text{ Lepus} \\ 5-4117 \\ -1452 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \text{ Lepus} \\ 5-4556 \\ -2053 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \text{ Lepus} \\ 5-5013 \\ -1412 \\ \hline \end{array}$$

$$\begin{array}{r} 550391 \\ 39'8 \\ 557 \\ 450 \\ \hline 451'65 \\ 42 = c \end{array}$$

$$\begin{array}{r} 552 \quad 218 \quad 150 \quad 416 \\ 220 \\ 377 \\ 297 \\ \hline 2782 \\ 57 \quad 15 \quad 4812 \end{array}$$

$$\begin{array}{r} 57 \text{ Hengier} \\ 63045 \\ 3929 \end{array}$$

$$\begin{array}{r} 57 \\ 6330 \\ 4531 \end{array}$$

$$\begin{array}{r} 57 \\ 6510 \\ 4551 \end{array}$$

$$\begin{array}{r} 65259 \\ 4553 \end{array}$$

$$\begin{array}{r} 351103 \\ 172 \\ 312 \\ \hline 142 \\ 36 \quad 18.22 \end{array}$$

$$\begin{array}{r} 03488 \\ 98 \quad 88.4 \\ 80 \quad 11.8 \\ 567 \\ \hline 3 \quad 59.00 \end{array}$$

$$\begin{array}{r} 04596 \\ 70 \quad 87 \\ 231 \\ 318 \\ \hline 1880 \\ 45 \quad 17 \quad 2558 \end{array}$$

$$\begin{array}{r} 01170 \\ 45 \quad 261 \\ 350 \\ 202 \\ \hline 2558 \end{array}$$

Same as previous station

Bottom A-1

Prej Previous station

14

Feb 21

63 Sunrise

$$\begin{array}{r} 7349 \\ +13930 \\ \hline \end{array}$$

19 Lynx

$$\begin{array}{r} 71334 \\ +11529 \\ \hline \end{array}$$
^{B. Can. Min}
 Lat 1306 2 Hm

$$\begin{array}{r} 72058 \\ 71901 \\ \hline 16842 \end{array} \quad \begin{array}{r} 72715 \\ +83113.8 \\ \hline \end{array}$$

30 4 594

$$\begin{array}{r} 8'8 \\ 228 \\ 5'6 \\ \hline 35 \quad 9.15 \end{array}$$

31-1 7.8

$$\begin{array}{r} 106 \\ 308 \\ 126 \\ \hline 36 \quad 16.70 \end{array}$$

30 3 576 55 2 13.8

$$\begin{array}{r} 24 \\ 176 \\ 68 \\ \hline 34 \quad 610 \end{array} \quad \begin{array}{r} 212 \\ 643 \\ 180 \\ \hline 57 \quad 2208 \end{array}$$

OH

x

hm-1374

$$\begin{array}{r} 74632 \\ +7413 \\ \hline \end{array}$$

2 Hm

$$\begin{array}{r} 75831 \\ +487 \\ \hline \end{array}$$

27 Lynx

$$\begin{array}{r} 71913 \\ +1150 \\ \hline \end{array}$$

50 2 542 1538

$$\begin{array}{r} 42 \quad 28 \\ 166 \quad 157 \\ 551 \quad 547 \\ \hline 53 \quad 25252 \quad 160 \end{array}$$

553 338

$$\begin{array}{r} 411 \\ 547 \\ 413 \\ \hline 58 \quad 4272 \end{array}$$

55-4

576

3 572

33

28

157

209

521

558

25 Monroe 24 Lynx x Gen π Gen

73136 73321 73734 7409
-357 +5858 +2440 +3341

55-1 9.2 51 439 250 82 203 51.8
11.2 512 158 598
272 54 232 139
173 45.9 156 576
56 16.22 6 5-1.60 25 17.20 24 0.77

B1147

8512
+766

B Cancer

81020
+7532

Sum

6.8
0' 1'
81531 + 229

554516 3572
33 78
209
558
112 59642

302502
547
88
580
32 57.88

35-1 304
338
501
351
36 3835

1534
068
3835

16

756 21 ~~80~~

7

d

(80)

a

82129

8 2333

(7)

+113

-034

50 2 34.6

35 4 32.1

35.5

35.1

53.4

51.4

42.2

39.8

52

42.18

39

39.88

Feb 23, 1885

3 h.

502	506
508	499
521	480
528	490
502	502
<u>21</u>	<u>4487</u>
5042	8574
	5242
	<u>14016</u>
	70.8 10.1
	70.1 set at
	<u>70.3</u>
	2 C=0

Dinner

3 4145-2336

354	15	18
	41	46
	200	416
	101	98
	<u>8.92</u>	<u>8.70</u>
	1124	

Jm

4	56	41
	<u>53</u>	20

Pm

5	7	4
	<u>54</u>	51

5	12	16
	<u>51</u>	33

(5,4)

55	4	3.5
<u>40</u>	4	234
		325
		<u>471</u>
		246
	44	3273
A-1		

40	4	15.2
<u>10</u>		22.8
		30.8
		<u>12.8</u>
	14	2340
1	1	1-1

only, #implied

30.2	1.2	262
		332
		491
		<u>280</u>

A-1	
12-4-	

$$\begin{array}{r} \text{Du} \\ 43715 + 5141 \end{array}$$

$$20 \ 3 \ 207$$

$$\begin{array}{r} 95) 302 \\ 458 \\ \hline 247 \end{array}$$

$$23 \ 3035$$

$$A+1$$

DM

$$43546 + 5350$$

$$10 \ 3578$$

$$\begin{array}{r} 93) 62 \\ 98) 218 \\ \hline 24 \end{array}$$

$$14 \ 705$$

Rey order

$$9.3 \text{ on } A+1$$

$$9.2 \text{ on } A \text{ to } A+1$$

and $A-1$

3 stories for freehold stars ...
same setting for bound stars

$$4 \ 56 \ 27 \ (9.0)$$

$$75410$$

$$5-5 \ 1035$$

$$A+1$$

$$85) 26.1$$

$$\begin{array}{r} \text{Sum} \\ 5-6 \ 6.1 \\ \hline 12.05 \end{array}$$

$$A+1$$

7.0 min in obs

$$5-13 \ 50$$

$$+51 \ 01$$

~~not seen~~

$$5 \ 18 \ 23$$

$$+50 \ 22$$

$$50 \ 2 \ 4.4$$

$$\begin{array}{r} 93) 12.8 \\ 26.8 \\ \hline 82 \end{array}$$

$$52 \ 1812$$

#2

Feb 23
~~5-27 13~~
 5-27 13
 -17 15

5-36 15 (54)
 +13 44

5-37 1 (46)
 +51 24

55 3 350
 36.2
 513
 42.8
 58 41.32

20 0 422
 51.0
 5.2
 45.0
 20 50.85

40 1 212
 301
 448
 25.2
 41 80.32

Jan
 55032
 +11 6

557 42
 +11 25

22 McCall
 6617

55426
 35.7
 9.1 504
 30.0
 59 3558

353 261
 35.3
 50.3
 30.3
 38 85.50
 171 12-1
 2345

769 21
 40 4380
 48.7
 12
 40.8
 44 47.17

2 Lepus

$$\begin{array}{r} 5-35\ 15 \\ -22\ 30 \\ \hline \end{array}$$

y Lepus 5 Lep

$$\begin{array}{r} 5-41\ 15 \\ -14\ 52 \\ \hline \end{array} \quad \begin{array}{r} 5-45\ 56 \\ -20\ 53 \\ \hline \end{array}$$

30 2 113

12.1

29.4

570

$$\begin{array}{r} 32 \\ \hline 12.45 \end{array}$$

$$\begin{array}{r} 14 \\ \hline 32e \end{array}$$

55 0 453

15.2

58

56.8

$$\begin{array}{r} 56 \\ \hline 1771 \\ 1.78 \end{array}$$

55 2 244

24.3

40.2

30.8

$$\begin{array}{r} 57 \\ \hline 1199 \\ 2992 \end{array}$$

41 Aurigae

$$\begin{array}{r} 6\ 16\ 7\ 21 \\ \hline 419 \end{array}$$

45 0 70

14.2

28.2

10.2

$$\begin{array}{r} 45 \\ \hline 1490 \end{array}$$

10 Monoceros

6 22 20

$$\begin{array}{r} -441 \\ \hline \end{array}$$

45 1 223

24.4

35.5

30.1

$$\begin{array}{r} 46 \\ \hline 2908 \end{array}$$

J Lynce's

$$\begin{array}{r} 6\ 27\ 16 \\ \hline 76135 \end{array}$$

30 1 11.8

18.2

33.6

13.1

$$\begin{array}{r} 31 \\ \hline 1918 \end{array}$$

Feb 23

J Gen

6 317

+16 30

18 Monocent

64155

+2 32

15 Lynx

64724

+18 34

350 33.9

35.9

48.3

38.1

35 39.05

30 2 52.5

570

106

59.7

32 59.95

30 1 13.4

19.9

34.7

14.8

31 20.70

Lan mi

7 33.20

+15 31

Lan 1374

74632

+74 13

50 2 54.8

3.3

16.1

55.0

53 2.20

B Camen

8 10 19

+9 32

35 1 29.9

12

14.8

4.7

36 126.5

19 Lynx
7 133
+ 55 29

3 Can Ruc
7 20 58
+ 831

25 Monoc
73136
- 351

350 450
513
59
45.7
35 4998

30 3 551
550
11.5
3.7
34 2.40

55 1 28
84
248
15.7
56 1425

Sum's 35 - 30

~~841988~~
~~30 26~~

8 19 31
+ 2 29

8 19 45
+ 11 57

8 21 29
+ 11 13
=

30 1 28 302
33.0 330
45.2 481
36.6 366

234

51 57.2 501 385 354372
57.2 425 355
120 571 550
0.7 458 438
71.02 57 4632 394370
71.02 4 4 4

T-625
4 hours

511	890
512	882
498	926
508	910
518	514
<hr/>	
57	38
5114	5068
	5114
	<hr/>
	10182

109 set of

4 Camels

43530

+5633

30 2 336

426

588

386

32 4340

10 Camels

45316

+6016

45358

82

210

33

49 895

50

51355

+5032

51737

+5357

61812

+5419

30 2 40.1

50.0

871 63

46.8

32 50.80

1-1

5 3 17

121

931

271

27

8 12.15

41

45 1 18

871

104

24.6

6.3

46 1078

1-1

1-1

1-1

DM

$$\begin{array}{r} 45656 \quad (52) \\ +520 \\ \hline \end{array}$$

$$\begin{array}{r} 45651 \quad (50) \\ +5734 \\ \hline \end{array} \quad \begin{array}{r} 41350 \quad (94) \\ +511 \\ \hline \end{array}$$

(98)

$$\begin{array}{r} 300430 \\ 51.3 \\ \hline \end{array}$$

$$\begin{array}{r} 9.3) 51.3 \\ 481 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \quad 5252 \\ \hline \end{array}$$

A-1

Not seen
seen

At H. R. only,
some stars
star 9.6 3' above,
same R. H. only.

$$\begin{array}{r} 6221 \\ 5456 \\ \hline \end{array}$$

$$\begin{array}{r} 6330 \\ +531 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \text{ Monoc.} \\ 63542 \\ +100 \\ \hline \end{array} \quad \begin{array}{r} 8 \text{ Sun} \\ 63853 \\ +131 \\ \hline \end{array}$$

$$\begin{array}{r} 53440 \\ 82) 549 \\ \hline \end{array}$$

$$\begin{array}{r} 82) 93 \\ 1.8) 499 \\ \hline \end{array}$$

$$8 \quad 5452$$

8.2 m. A, A, A, A-

17.8 on A6. A-1

Same setting for both.

$$\begin{array}{r} 50163 \\ 84) 249 \\ 1) 392 \\ 207 \\ \hline 5 \quad 2527 \end{array}$$

A, A, A, A-

$$\begin{array}{r} 04112 \\ 168 \\ 312 \\ 198 \\ \hline \end{array}$$

$$4 \quad 1975$$

Feb 25

1st Monoc

$$\begin{array}{r} 64155 \\ +232 \\ \hline \end{array}$$

5-1 76 6 p.m.

$$\begin{array}{r} 64696 \\ +713 \\ \hline \end{array}$$

Sun

$$\begin{array}{r} 6510 \\ +551 \\ \hline \end{array} \quad (70)$$

30 2 464

$$\begin{array}{r} 57.8 \\ 72 \\ \hline 58.8 \\ 32 \quad 55.30 \end{array}$$

6 45 73

$$\begin{array}{r} 56 \\ 73 \quad 214 \\ \hline 22 \\ 11 \quad 712 \\ \hline 412345 \end{array}$$

BCan m

$$\begin{array}{r} 72058 \\ +31 \\ \hline \end{array}$$

25 Monoc

$$\begin{array}{r} 7336 \\ -351 \\ \hline \end{array}$$

2 Can m

$$\begin{array}{r} 73320 \\ +131 \\ \hline \end{array}$$

30 3 541

$$\begin{array}{r} 591 \\ 147 \\ \hline 47 \\ 34 \quad 315 \end{array}$$

55 1 10.6

$$\begin{array}{r} 100 \\ 293 \\ \hline 200 \\ 56 \quad 1822 \end{array}$$

30 4 491

$$\begin{array}{r} 558 \\ 97 \\ \hline 03 \\ 34 \quad 58.72 \\ \hline \end{array}$$

$$\begin{array}{r} 65259 \\ +553 \\ \hline \end{array}$$

$$\begin{array}{r} 655-42 \\ +523 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \text{ Luncis} \\ 63 \text{ Luncis} \\ \hline 7348 \\ 71304 \end{array}$$

$$\begin{array}{r} 01532 \\ 86) 18 \\ 174 \\ \hline 582 \\ 5765 \\ \hline 300 \end{array}$$

$$\begin{array}{r} 00513 \\ 80) 08 \\ 150 \\ \hline 567 \\ 095 \\ \hline AA-1 \end{array}$$

$$\begin{array}{r} 35121 \\ 10'8 \\ \hline 262 \\ 92 \\ \hline 861158 \end{array}$$

Doesn't this remarks
belong under the previous
star? vice versa - R.

$$921374$$

$$27 \text{ Luncis}$$

$$B21147$$

$$74632$$

$$75513$$

$$8512$$

$$77413$$

$$75752$$

$$7766$$

$$\begin{array}{r} 502358 \\ 468 \\ 596 \\ 379 \\ \hline \end{array}$$

$$524502$$

$$\begin{array}{r} 150335 \\ 422 \\ 563 \\ 388 \\ \hline 154270 \end{array}$$

$$\begin{array}{r} 554553 \\ 63 \\ 193 \\ 583 \\ \hline 0480 \end{array}$$

Fsh, 25

Bancin

$$\begin{array}{r} 8 \ 10 \ 20 \\ + 5 \ 32 \\ \hline \end{array}$$

✓
 1931⁽¹⁷⁾

$$\begin{array}{r} 8 \ 19 \ 31 \\ + 2 \ 29 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \ 19 \ 45 \\ + 1 \ 57 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \ 2 \ 50 \ 6 \\ \quad 55 \ 4 \\ \quad \quad 5 \ 8 \\ \quad \quad \quad 1 \ 0 \\ \hline 32 \ 59 \ 20 \end{array}$$

$$\begin{array}{r} 35 \ 1 \ 25 \ 8 \ 30.3 \\ \quad 34.2 \ 34.2 \\ \quad 49.2 \ 49.0 \\ \quad 38.7 \ 39.7 \\ \hline 36 \ 38.00 \ 38.30 \end{array}$$

$$\begin{array}{r} 5 \ 2 \ 34.4 \\ \quad 39.2 \\ \quad 54.1 \\ \quad 43.0 \\ \hline 7 \ 4268 \end{array}$$

A+1 380

~~AST~~

$$8 \ 21 \ 29 \ (80)$$

$$71 \ 13$$

$$\begin{array}{r} 50 \ 2 \ 8.3 \\ 11.8 \\ 27.0 \\ 16.8 \\ \hline 52 \ 15.97 \end{array}$$

$$8 \ 23 \ 33 \ (7)$$

$$-0 \ 34$$

$$\begin{array}{r} 35 \ 4 \ 5.0 \\ 7.4 \\ 25.4 \\ 13.5 \\ \hline 39 \ 12.82 \end{array}$$

Mar 2 ✓ Q-25-708

5-12 16

+17 33

not seen

5-13 +0

+11 1

To off:
to obs.

5-13 55

+13 57

To late
seen

FW

5-41 36

+12 36

250 10.8

21.8

40.6

20.1

25 23.35

5-46 56

+11 31

30 3 31.8

43.3

24

42.6

33 45.02

5-49 45

+12 23

Aug 85 - my

and 45

no 5

out of place?

A+1 A

A₊ A A₊

A 98 star on A-145
no 5.

5-1737
 +5357
 5-2510
 47
 240
 46
 8 607
 9.0)

6-Orion DM
 5-2611
 -023
 25 1568
 34.3
 24.0
 13.2
 27 1704.2

5-3723
 +5436
 9.7) 301218
 334
 513
 318
 3457
 As and lower of
 three very faint stars
 A-1

5-5054
 +5433
 Not seen

5-5834
 +5022
 40331
 88) 158
 361
 151
 43 17.52
 A₊₁ A-1

5-Orion
 6-13
 +5447

Mar 24

$$\begin{array}{r} 6819 \\ +5341 \\ \hline \end{array}$$

$$\begin{array}{r} 20367 \\ (F4) \quad 190 \\ \quad 377 \\ \quad 172 \\ \hline 23 \quad 2015 \end{array}$$

A+1

V1 Auger

$$\begin{array}{r} 6167 \\ +4921 \\ \hline \end{array}$$

$$\begin{array}{r} 404314 \\ 451 \\ 48 \\ \hline 440 \end{array}$$

A+1 A A-1

8 Monoc

$$\begin{array}{r} 61764 \\ +439 \\ \hline \end{array}$$

$$\begin{array}{r} 6330 \\ +531 \\ \hline \end{array}$$

$$\begin{array}{r} 551469 \\ (85) \quad 01 \\ \quad 182 \\ \quad 588 \\ \hline 57 \quad 100 \end{array}$$

A+1 A A-1

2 Gen

$$\begin{array}{r} 63558 \\ +131 \\ \hline \end{array}$$

$$\begin{array}{r} 0403 \\ 99 \\ 272 \\ \hline 163 \\ 4 \quad 1342 \end{array}$$

Dm

$$\begin{array}{r} 64157 \\ +5140 \\ \hline \end{array}$$

$$\begin{array}{r} 103312 \\ (90) \quad 446 \\ \quad 31 \\ \quad 428 \\ \hline 13 \quad 4547 \end{array}$$

A+1 A 1234

Rej A+4

Jm

6 22 1

+54 56 Toll#

5-4 176

308

7.9

452

287

9 2158

A+1 A A-1

2 3 16 Cameloff

6 26 46

+79 41

20 4420

1'9

1'50

561

24 59.50

Jm

6 30 35

+55 1

0 0 49

16'8

93

352

17.0

0 18.47

A+1

Jm

6-45 55

+53 3 6

6 47 12

+50 10

6 51 0

+55 1

557

147

368

17.0

30 2 0 2 3 53

384

87

62

46.9

30

4670

450 376

86 50.2

10.1

50.1

45 52.00

554 5.4

87

368

17.0

59 19.32

A 6789 A-1

Toll#

Mar 2 1885

Dm

65542

+523

Dm

70402

+553

7 411 15

+51 15

~~5500.1~~Rei
Wingston

50 0 510

$$\begin{array}{r} 1.9 \\ 203 \\ 0.9 \\ \hline 352 \end{array}$$

+1

351 3.5

$$\begin{array}{r} 100 \\ 9.5 \\ 34.2 \\ \hline 143.7 \end{array}$$

36 1675

A+1
11?

25 Monroe

73136

-351

2 Jan 1885

73328

+531

24 Lynx

73321

+5859

551 81

133

33.0

23.2

5-6 1940

5 1 308

4222

589

391

$$\begin{array}{r} 3445 \\ 4275 \end{array}$$

2 Gen

7 11 32

+16 43

15 4 30.1

37.5

55.9

43.3

19 41.70

A-1

19 Lynx

~~7 12 34~~ 13 34

+55 29

35 0 109

28.2

40.6

21.8

35 24.12

A-1

Blau m.

7 20 58

+8 31

30 4 55.9

53.4

22.8

10.9

35 5.75

An 13 74

7 46 31

+74 13

50 2 23.0

37.1

53.0

31.6

L 52 36.17
Lent-2023 mms

Bonaparte

27 Lynx

7 5-9 43

+51 50

10. 4 56.4

9.9

28.2

8.2

15 10.67

Blau m.

8 10 19

+5 32

30 2 23.9

32.9

51.0

39.0

32 36.70

36

Mar 2

$$\begin{array}{r} 8 \ 18 \ 31 \\ + 229 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \ 19 \ 45 \\ + 157 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \ 21 \ 29 \\ + 113 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \ 1 \ 28.2 \ 27.8 \\ 35.8 \ 36.8 \\ 54.4 \ 54.4 \\ \hline 43.5 \ 44.0 \\ 26 \ 40.47 \ 40.55 \end{array}$$

$$\begin{array}{r} 45 \ 2 \ 42.2 \\ 47.3 \\ 55.0 \\ 14.1 \\ 2.8 \\ \hline 47 \ 59.80 \end{array}$$

8 23 33

-0 36

35 4 14.8 15.3

21.2 22.2

41.7 41.6

29.7 29.3

39 2685 2710

~~Bar 29.2~~
Collimator

25 59.0

60.1

58.7

59.0

60.0

296.8

25 59.36

let at 25 70.8

25 95.1

92.8

96.1

94.2

95.0

473.5

25 94.70

25 59.36

25 77.03

Mars C = 2577.0

2 km	En 1348	Blau mi	25 Monce
7 1133	7 15 1	7 20 58	7 31 36
+16 44	+6 42	+8 31	-0 51

20 0 30.2
39.2
550
42.4
20 41.70

30 3 56.2
54
238
11.3
34 918

55 0 36.4
412.7
0.9
504
55 47.60

Blau mi
8 10 20
+9 32

8 19 31
+2 29

8 19 45
+1 57

30 1 37.4
46.2
2.7
52.1
31 49.60

35 1 30.2 29.6
38.3 37.8
56.0 56.2
43.9 44.0
36 42.10 41.90

5 2 28.9
38.2
55.8
43.1
7 41.50

A+1

A A-1

Can M 91374 121147

5320

+550

74632

+7413

8512

7766

30 3 0.6

10.9

25.0

16.0

93 1362

501441

26

190

56.1

52 1.20

553457

1.2

163

54.6

58 59.45

82129

+113

82333

-034

50 2 30.6

39.8

5.7

44.8

52 4322

30 4 34.2

41.6

0.7

47.8

34 4608

34.0

41.7

0.3

47.3

4582

Mar 31 (88)

638	868
630	881
630	861
630	866
63.0	87.6
<hr/> 3158	<hr/> 435.2
63.16	87.04
	63.16
	<hr/> 75.10

Set at 25 77.0

May 1875

$$\begin{array}{r} 14.3 \\ 77.0 \\ \hline 27.7 \\ \hline \end{array}$$

$c = +0.3$

211

$$\begin{array}{r} 5-12-16 \\ 9-10-17 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 5-13-15 \\ +53-17 \\ \hline \end{array}$$

$$\begin{array}{r} 5-17-37 \\ +53-17 \\ \hline \end{array}$$

$$\begin{array}{r} 5-10-1568 \\ 90) \quad 58 \\ \quad 278 \\ \quad \quad 58 \\ \quad \quad \quad 1055 \\ \quad \quad \quad \quad 12 \end{array}$$

$$\begin{array}{r} 5-2-541 \\ 90) \quad 84 \\ \quad 258 \\ \quad \quad 56 \\ \quad \quad \quad 3.48 \end{array}$$

line out 5
4+1 1123-785

$$\begin{array}{r} 5-4945 \\ +5423 \\ \hline \end{array}$$

$$\begin{array}{r} 5-5054 \\ +5433 \\ \hline \end{array}$$

$$5-4656$$

$$\begin{array}{r} 30 \quad 3 \quad 336 \\ 13 \quad 489 \\ 50 \quad 52 \\ \quad 450 \\ 33 \quad \hline 4792 \end{array}$$

$$\begin{array}{r} 403? \quad 361 \\ 84) \quad 489 \\ \quad 63 \\ \quad \quad 467 \\ 43 \quad \hline 4950 \end{array}$$

$$\begin{array}{r} 30 \quad 2 \quad 173 \\ 86 \quad 316 \\ \quad 452 \\ \quad \quad 284 \\ 32 \quad \hline 3112 \end{array}$$

83 on d₁ out
90 on d₁

A+1

A+

$$\begin{array}{r}
 5-3723 + 1436 \\
 20 \ 3 \ 15 \ 75 \\
 \quad 11.6 \\
 \quad 29.3 \\
 \quad \quad 9.2 \\
 \hline
 24 \ 11.90
 \end{array}$$

unc A_{-} only
no other star infixed

$$\begin{array}{r}
 5-4126 \\
 + 1036 \\
 30 \ 0 \ 197 \\
 96 \ 336 \\
 (89) \ 527 \\
 \quad 220 \\
 \hline
 3450
 \end{array}$$

$96 = A_{+1} \ A_{-1}$
 89 on A_{-1} in A_{-} only,

$$\begin{array}{r}
 5-5834 \\
 + 5022 \\
 (96) \ 40 \ 3 \ 50 \\
 \quad 19.7 \\
 (95) \ 38.2 \\
 \quad 17.2 \\
 \hline
 43 \ 20.02
 \end{array}$$

$96 = A_{+1} \ A_{-1}$
 95 on A_{-1} 345

$$\begin{array}{r}
 6 \ 8 \ 19 \\
 + 15351 \\
 20 \ 3 \ 111 \\
 \quad 233 \\
 (75) \ 413 \\
 (88) \ 216 \\
 \hline
 2432
 \end{array}$$

$75 = A_{+1}$
 $88 = A_{+1} \ A_{-1}$

$$\begin{array}{r}
 6 \ 845 \\
 + 5416 \\
 50 \ 1510 \\
 \quad 91 \ 47 \\
 \quad 212 \\
 \quad 16 \\
 \hline
 52 \ 4.62 \\
 A_{-1} \ 5
 \end{array}$$

Mar 4 1885

Wm

$$\begin{array}{r} 6221 \\ +5456 \\ \hline \end{array}$$

 L Lymel

$$\begin{array}{r} 62916 \\ +6134 \\ \hline \end{array}$$

$$\begin{array}{r} 63035 \\ +551 \\ \hline \end{array}$$

$$\begin{array}{r} 54299 \\ 88 \quad 443 \\ 78 \quad \cancel{443} \\ \quad 404 \\ 9 \quad \hline 4395 \end{array}$$

$$\begin{array}{r} 300592 \\ 120 \\ 292 \\ 82 \\ 31 \quad \hline 1215 \end{array}$$

$$\begin{array}{r} 00570 \\ 98 \quad 84 \\ 213 \\ 61 \\ 1 \quad \hline 920 \end{array}$$

88 out +, in slowly
 78 = A+1 A-1

A+1

~~6440 +5139~~

$$\begin{array}{r} 64712 \\ +5010 \\ \hline \end{array}$$

$$\begin{array}{r} 80 \quad 451163 \\ 87 \quad 292 \\ \quad 477 \\ \quad \hline 273 \\ 87 \text{ out } +1463012 \\ 90 \text{ on } \text{no } J \\ \text{May } \# ? \end{array}$$

$$\begin{array}{r} 6 \ 30 \ 0 \\ + 53 \ 1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \ 0 \ 25 \\ 14 \ 7 \\ 3 \ 10 \\ 12 \ 1 \\ \hline 5 \ 15 \ 04 \end{array}$$

$$\begin{array}{r} 6 \ 41 \ 10 \\ + 51 \ 14 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \ 8 \ 557 \\ 87 \ 12 \ 2 \\ 306 \\ 99 \\ \hline 49 \ 13 \ 10 \end{array}$$

A+1

$$\begin{array}{r} 6 \ 41 \ 57 \\ + 51 \ 45 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \ 8 \ 3.2 \\ 16 \ 8 \\ 340 \\ 146 \\ \hline 13 \ 17 \ 15 \end{array}$$

A-1

$$\begin{array}{r} 6 \ 51 \ 0 \\ + 55 \ 1 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \ 45 \ 24 \\ 49 \\ 213 \\ 27 \\ \hline 5 \ 532 \end{array}$$

A+1

$$\begin{array}{r} 6 \ 52 \ 59 \\ + 55 \ 3 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \ 3.2 \ 561 \\ 2.2 \ 998 \\ 270 \\ 7.0 \\ \hline 10.00 \end{array}$$

A-1

$$\begin{array}{r} 6 \ 55 \ 92 \\ + 52 \ 3 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \ 0 \ 133 \\ 92 \ 250 \\ 89 \ 420 \\ 236 \\ \hline 0 \ 25.98 \end{array}$$

89 on A+1

92 on A-, No 5

46

Mars

DM

7 42

+55 3

0 3 244

3'72

96

541

343

3750

A-1

7 8 14

+52 1

1-0 526

88558

164

579

168

A-1

7 9 41

+55 7

89 552 886

411

584

391

57 44.30

2nd m. A-1

Scanini

7 3320

+53 1

30 3 442

534

10'8

1'8

83

5955

Bleu

7 3820

+28 18

45-1 210

321

487

332

46 33.75

A-1

Lm 1374

+1632

+113

50 2 351

502

68

440

52 49.02

18 Lynx B Canini

$$\begin{array}{r}
 \triangleright 1334 \\
 + 5525 \\
 \hline
 304528 \\
 50 \\
 223 \\
 27 \\
 \hline
 34 \quad 570
 \end{array}$$

A₋ 5

$$\begin{array}{r}
 \triangleright 2058 \\
 + 831 \\
 \hline
 25 \text{ Monroe} \\
 \triangleright 3136
 \end{array}$$

$$\begin{array}{r}
 308550 \\
 18 \\
 201 \\
 9.2 \\
 \hline
 33 \quad 652
 \end{array}$$

$$\begin{array}{r}
 -351 \\
 55150 \\
 10.2 \\
 253 \\
 194 \\
 \hline
 86 \quad 15.98
 \end{array}$$

27 Lynx

$$\begin{array}{r}
 \triangleright 5913 \\
 + 5150 \\
 \hline
 150308 \\
 440 \\
 14 \\
 41.2
 \end{array}$$

$$\begin{array}{r}
 15- \\
 \hline
 5185 \\
 44.35
 \end{array}$$

Bm 1147

$$\begin{array}{r}
 85112 \\
 + 1766 \\
 \hline
 55427.7 \\
 434 \\
 0.3 \\
 37.2 \\
 \hline
 59 \quad 4215
 \end{array}$$

B Canini

$$\begin{array}{r}
 81020 \\
 + 932 \\
 \hline
 30.2 \quad 23.2 \\
 31.2 \quad 42.6 \\
 34.1
 \end{array}$$

48

Mar 4

8 19 31

+ 2 29

8 19 45

+ 1 57

8 21 24

~~10 38~~
+ 11 13
~~35 1 26 9~~
~~35 0 23 6~~
~~13 0~~

35 8,

277 26,3

35,0 35,0

53,2 53,3

43 1 44 4

36 3977 3435

5-2 30,5

32 1

56 1

44 6

~~44 33~~
2

A

50 2 14 1

20 9

39 6

25 6

52 2580

Collimation. Morning March 5 1885

$$\begin{array}{r} 82333 \\ -034 \\ \hline \end{array}$$

$$\begin{array}{r} 353551 \\ 20 \\ 213 \\ 99 \\ \hline 39707 \end{array}$$

Falsestohaupt &

25 60.8 87.2

61.8 86.1

61.6 87.8

61.3 86.8

$$\begin{array}{r} 62.0 \\ \hline \end{array} \quad \begin{array}{r} 87.2 \\ \hline \end{array}$$

$$\begin{array}{r} 75 \\ 6150 \\ \hline \end{array}$$

$$\begin{array}{r} 314 \\ 8702 \\ 6150 \\ \hline 14852 \\ \hline 74.3 \end{array}$$

Set of 743

60
Maitland-Russ

P

[illegible]

220

Mar 6 1885

$$O = \begin{array}{r} 72.9 \\ 743 \\ +1.4 \\ \hline \end{array} \text{Sel. M-}$$

~~B Can. Min~~ $c = +0.2$

$$\begin{array}{r} 17 \ 20 \ 58 \\ +8 \ 31 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \ 3 \ 374 \\ 418 \\ 18 \\ \hline 51.1 \\ 33 \ 4902 \end{array}$$

25 Monoc

$$\begin{array}{r} 31 \ 36 \\ -3 \ 51 \\ \hline \end{array}$$

$$\begin{array}{r} 55 \ 1 \ 41 \\ 91 \\ 268 \\ 181 \\ \hline 56 \ 1452 \end{array}$$

2 Can Min

$$\begin{array}{r} 73320 \\ -7530 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \ 2 \ 91 \\ 154 \\ 338 \\ 243 \\ \hline 32 \ 2112 \end{array}$$

$$\begin{array}{r} 8 \ 19 \ 31 \\ +229 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \ 19 \ 45 \\ +157 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \ 128 \ 5294 \\ 368 \ 371 \\ 539 \ 539 \\ 436 \ 433 \\ \hline 36 \ 4095 \ 4090 \end{array}$$

$$\begin{array}{r} 5 \ 2 \ 33.4 \\ 41.2 \\ 57.9 \\ 46.7 \\ \hline 7 \ 4490 \end{array}$$

$$\begin{array}{r} \chi \text{ Gen} \\ 7563 \\ +286 \end{array}$$

$$\begin{array}{r} \text{Br. 114} \\ 8512 \\ +766 \end{array}$$

$$\begin{array}{r} \text{Blancin} \\ 81020 \\ +832 \end{array}$$

$$\begin{array}{r} 553233 \\ 348 \\ 458 \\ 363 \\ \hline 58 \quad 3605 \end{array}$$

$$\begin{array}{r} 554456 \\ 83 \\ 156 \\ 536 \\ \hline 59 \quad 5878 \end{array}$$

$$\begin{array}{r} 302109 \\ 189 \\ 356 \\ 253 \\ \hline 32 \quad 2268 \end{array}$$

$$\begin{array}{r} 82129 \\ +113 \end{array}$$

$$\begin{array}{r} 8239 \\ +05 \end{array}$$

$$\begin{array}{r} \cancel{82333} \\ \cancel{-03} \end{array}$$

$$\begin{array}{r} 50242.2 \\ 50.0 \\ 7.2 \\ 56.4 \\ \hline 52 \quad 5410 \\ A+1 \text{ also } A \end{array}$$

$$\begin{array}{r} 55452.2 \\ 6.0 \\ 23.4 \\ 124 \\ \hline 0 \quad 10.00 \end{array}$$

A+1

Jan 8 1885

$c = +12$

5-41 36
+50 36

25 0 5.8

90)

11.8

9.4)

30.2

11.8

25 15.90

No obs. of this class

90 on t_{+1} t_{-1}

(91 on t_{+1} 1235-
no obs.)

5-46 56

+51 30

30 3 34.7

84)

4.8

0.4

40.9

33 45.45

t_{+1}

No obs.

5 50 32

+51 6

55 4 11.2

88)

220

34.0

17.4

59 2215

t_{+2} t_{-1}

Raise obs for

6 30 35

+55 1

5-0 22.6

31.9

89)

46.3

28.1

5- 32.22

only a
my faint
star in focus

6 38 0

+53 1

6 41 42

+50 51

15 2 32.5

2.2

t_{-1}

$$\begin{array}{r} 55834 \\ +5222 \\ \hline \end{array}$$

$$\begin{array}{r} 6945 \\ +5418 \\ \hline \end{array} \quad \begin{array}{r} 6221 \\ +5458 \\ \hline \end{array}$$

$$\begin{array}{r} 4036.1 \\ 16.8 \\ 8632.2 \\ 13.0 \\ \hline 431702 \end{array}$$

$$\begin{array}{r} 452528 \\ 95/m. 3.1 \\ 85/pe 180 \\ 59.1 \\ \hline 483,25 \end{array}$$

$$\begin{array}{r} 84/10316.0 \\ m. 252 \\ 86/pe 354 \\ 214 \\ \hline 132550 \end{array}$$

44 A-1

2nd \sqrt{m}

A-1 Brm

44 ~~44~~

Corrected Calc:
 $\sqrt{95} = 8.5$ stop date (84 on A-1)
 No obs

$$\begin{array}{r} 6440 \\ +5139 \\ \hline \end{array}$$

$$\begin{array}{r} 64712 \\ +5010 \\ \hline \end{array}$$

$$\begin{array}{r} 6510 \\ +55-1 \\ \hline \end{array}$$

$$\begin{array}{r} 65259 \\ +55-3 \\ \hline \end{array}$$

$$\begin{array}{r} 250429 \\ 78) 52.2 \\ 74 \\ \hline 45.8 \\ 2552.57 \end{array}$$

A2 to 84

$$\begin{array}{r} 98) 551239 \\ 90) 34.0 \\ 487 \\ \hline 30.8 \\ 563460 \end{array}$$

A-1

98 on A-1 125
 90 on A-1 345

$$\begin{array}{r} 04461 \\ 71) 56.2 \\ 117 \\ \hline 520 \\ 45650 \end{array}$$

A+1

$$\begin{array}{r} 02128 \\ 88) 21.6 \\ 36.8 \\ \hline 18.8 \\ 22222 \end{array}$$

44 A-1

56

Mar 8

$$\begin{array}{r} 742 \\ +553 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \times 18 \\ +5118 \\ \hline \end{array}$$

$$\begin{array}{r} 709418 \\ +5517 \\ \hline \end{array}$$

$$\begin{array}{r} 03278 \\ 94 \quad 380 \\ \quad 531 \\ \quad 334 \\ \hline 8 \quad 3807 \\ A+1 \end{array}$$

$$\begin{array}{r} 45405 \\ 88 \overline{) 103} \\ \underline{270} \\ 67 \\ 49 \overline{) 1112} \\ \underline{1112} \\ 0 \end{array}$$

$$\begin{array}{r} 8.3 \\ 9.0 \overline{) 552411} \\ \underline{558} \\ 111 \\ \underline{1120} \\ 57 \quad 56.25 \\ A500eA-1 \\ 2^{nd} \sqrt{\mu} \end{array}$$

$$\begin{array}{r} 25-Move \\ 73136 \\ -351 \\ \hline \end{array}$$

$$\begin{array}{r} \sim \text{Can. Mel} \\ 73320 \\ +531 \\ \hline \end{array}$$

$$\begin{array}{r} B \text{ Gen} \\ 73820 \\ +2818 \\ \hline \end{array}$$

$$\begin{array}{r} 550578 \\ 2'0 \\ 186 \\ 25 \\ \hline 56 \quad 6.57 \\ A+1 \end{array}$$

$$\begin{array}{r} 303265 \\ 337 \\ 490 \\ 390 \\ \hline 33 \quad 3705 \\ A+1 \quad 300 \end{array}$$

$$\begin{array}{r} 452173 \\ 2'58 \\ 39.3 \\ 258 \\ \hline 47 \quad 27.05 \end{array}$$

Lynce's B Can li. ~~Star~~
~~Star~~
 $\begin{array}{r} > 1334 \\ + 1130 \\ \hline 35013.7 \\ 22.8 \\ 37.4 \\ 18.2 \\ \hline 35 \quad 23.02 \end{array}$
 $\begin{array}{r} > 2058 \\ + 831 \\ \hline 3030.7 \\ 6.6 \\ 21.7 \\ 10.8 \\ \hline 33 \quad 99.5 \end{array}$
 $\begin{array}{r} > 2231 \\ + 1224 \\ \hline 86-40 \quad 130.7 \\ 9.5 \quad 40.2 \\ 56.1 \\ 36.6 \\ \hline 41 \quad 40.90 \end{array}$
 ~~$\begin{array}{r} > 3016 \\ + 1222 \\ \hline \end{array}$~~

$\Delta 78.5 \text{ A-1}$

~~86~~

$\Delta-1$

Same setting for both

Qu 12 > 4 $\Delta 5021$ K Gen 27 Lynce's
 $\begin{array}{r} > 4631 \\ + 7413 \\ \hline \end{array}$
 $\begin{array}{r} > 5021 \\ + 5348 \\ \hline \end{array}$
 $\begin{array}{r} > 5631 \\ + 287 \\ \hline \end{array}$
 $\begin{array}{r} > 5553 \\ + 1150 \\ \hline \end{array}$

$\begin{array}{r} 10 \quad 250.5 \\ 2.3 \\ 15.3 \\ 54.2 \\ \hline 53 \quad 0.57 \end{array}$
 $\begin{array}{r} 15 \quad 238.1 \\ 47.8 \\ 93 \quad 2.0 \\ 43.6 \\ \hline 17 \quad 47.88 \\ \text{A-1} \end{array}$
 $\begin{array}{r} 55 \quad 346 \\ 13.2 \\ 26.8 \\ 12.3 \\ \hline 58 \quad 14.22 \end{array}$
 $\begin{array}{r} 150 \quad 33.4 \\ 43.1 \\ 15.75 \\ 38.8 \\ \hline 15 \quad 43.42 \end{array}$

Mitt

58

Mar 8

Per 1147

8 5 12

+76 6

B. Clavin

8 10 20

+5 32

8 19 31

+2 29

55 4 504

18

152

541

0 2.12

30 2. 96

148

258

186

32 1820

3 5 1 304 302

352 307

503 504

349 392

36 3870 3872

$$\begin{array}{r} 8\ 1945 \\ +157 \\ \hline \end{array}$$

$$\begin{array}{r} 8\ 2129 \\ +113 \\ \hline \end{array}$$

$$8\ 2333$$

$$-034$$

$$\begin{array}{r} 5\ 2\ 43.6 \\ 48.0 \\ 4.1 \\ 51.7 \\ \hline 7\ 51.85 \end{array}$$

$$\begin{array}{r} 50\ 2\ 27.8 \\ 32.0 \\ 47.7 \\ 36.6 \\ \hline 52\ 86.02 \end{array}$$

$$\begin{array}{r} 35\ 4242 \\ 282 \\ 450 \\ 331 \\ \hline 39\ 3262 \end{array}$$

Runs March 10

ATH 30.8

	Σ	\bar{x}	\bar{y}	\bar{H}
50'	14.9			2
	16.4	29.9	45.9	33.6
	15.0	31.3	45.3	24.0
	15.0	30.7	45.4	24.0
	15.0	32.0	45.2	23.9
	15.1	30.2	45.1	24.4

9^h + m

50'	10.4	0.0	7.8	24.7	24.0	40.2	40.7	19.1	18.0
	9.3	8.3		25.2	24.1	40.4	41.0	17.8	18.1
	9.8	8.6		25.3	24.2	40.4	40.9	17.8	18.2
	9.3	7.7		25.6	24.7	40.7	40.7	18.7	18.7
	9.6	7.7		24.4	23.8	41.0	40.7	18.1	18.7
	9.68	8.02		25.04	24.16	40.54	40.80	18.30	18.34

Left windows + shutters open

1 P.M.

ATH $\bar{H} = 30.1$

50	9.9 ⁰	8.6	24.8	40.3		18.0			
	10.0	24.8	41.0		18.0				
	10.3	25.1	41.0		18.7				
	Σ		\bar{y}	\bar{y}		\bar{H}			
50	10.2	0.0	8.7	24.3	24.8	40.0	40.2	18.0	18.7
	10.0	8.2		24.3	25.8	40.1	40.7	18.2	18.2
	9.9	8.8		24.6	25.6	40.9	40.7	18.8	18.8
	<u>10.03</u>	<u>8.57</u>		<u>24.40</u>	<u>25.40</u>	<u>40.33</u>	<u>40.53</u>	<u>18.33</u>	<u>18.53</u>

Collimation March 10 1885

n_1	S
2585.8	25 82.1
63.0	81.2
61.2	80.8
61.5	81.0
61.3	81.0
88	61
61.76	81.22
	61.76
	45.8
	171.45 del 7.15

Mar 10 1885

Dm Dm

$$\begin{array}{r} 5-4945 \\ 54656 \\ +5423 \\ \hline 75131 \end{array}$$

11

$$\begin{array}{r} 5-5054 \\ +5433 \\ \hline \end{array}$$

$$\begin{array}{r} 6-945 \\ +5416 \\ \hline \end{array}$$

$$\begin{array}{r} 303568 \\ 64.73 \\ 222 \\ 18 \\ \hline 34702 \\ A+1 \end{array}$$

$$\begin{array}{r} 402556 \\ 84) \quad 66 \\ \quad 186 \\ \quad \quad 00 \\ \hline 43520 \\ A+1 \end{array}$$

$$\begin{array}{r} 89) 302315 \\ \quad 420 \\ \quad \quad 536 \\ \quad \quad \quad 360 \\ \hline 324078 \\ A+1234-1 \end{array}$$

Not seen
Same

$$\begin{array}{r} 645609 \\ +5836 \\ \hline \end{array}$$

$$\begin{array}{r} 64712 \\ +5010 \\ \hline \end{array}$$

$$\begin{array}{r} 65259 \\ +553 \\ \hline \end{array}$$

$$\begin{array}{r} 81) 300322 \\ \quad 422 \\ \quad 542 \\ \quad \quad 358 \\ \hline 804100 \end{array}$$

$$\begin{array}{r} 55-168 \\ 84) 178 \\ \quad 313 \\ \quad \quad 122 \\ \hline 561702 \end{array}$$

$$\begin{array}{r} 02130 \\ 81) 230 \\ \quad 360 \\ \quad \quad 197 \\ \hline 22242 \end{array}$$

are some stars

Free star
A789
A-1345

A₊ A A₋₁

6330

+53 1

~~62~~

64110

+5117

64142

+5051

8710408

110

24.9

5.0

A₊ A 1234 10.42

454158

268

408

208

+9 2605

A₊ +1

102502

0.6

137

448

A 259 2

Momy

65542

+523

7422427

+5503 +5046

814

+521

70941

+554

00188

28.2

41.6

22.5

0 27.77

A₊ A 2045

0339.2

94

2.5

154378

48.2

82

31

434

19 47.90

A₊ +1

A 45

5048

552.84

54

88.88

492

5 54.75

552161

26.0

38.0

20.0

57 25.27

2-5 m.
stroke for 24 min

Mar 10

15 Lyons

7 1334

+5529

35 078

17.3

30.2

11.6

35 1642

i Gen

7 1838

+282

0 400

8.7

26.4

6.8

4 8.98

B Qu Nin

7 2058

+831

30 3168

22.8

35.8

25.2

33 25.15

A 285 A-1

π Gen

7 8409

+3341

20 250.5

59.6

11.1

55.8

* 59.17

lm 134

+74632

+413

50 2430

54.9

6.8

45.2

52.47

Pr 1147

8 511.7

+766

55 411.2

22.6

33.9

12.8

59 20.12

25 Monoc. & Cancri B. Gen

> 31 36

-351

D3320

+530

> 3820

+2818

55 0 310

36.4

48.5

387

55 38.15

30 2 544

0.6

135

4.1

33 3.15

45 1 188

252

352

250

46 2755

A-1

B. Cancri

8 10 20

+932

31 Lyrae's

8 15 2

+4333

30 2 8.5

13.0

24.8

15.1

32 15.30

30 2 17.0

25.2

37.9

20.2

32 25.08

Main

8 15 31 (15 45) 8 21 29
 +2 29 +15 7 +1 13

35 1 30.2 31.6 ~~35.2~~ ~~35.3~~
 36.4 36.9 16.3
 51.3 51.1 22.0
 40.0 40.0 35.0
 36 39.62 39.90 24.7
 57 24.50

50 2 30.2
 36.2
 50.2
 39.2
 52 38.95

82333

→ 34

353 532526

558576

127 128

1.8 1.8

39 1.38 1.20

Mar 12 / 1850 - C-0.5

DM

6 30 35
+551

6 33 0
+53 1

6 41 42
+50 51

5 0 362
86) 448
56.4
387
5- 4402

5 0 249
86) 330
951
266
3240

15 2 342
89) 426
566
373
17 4267

Being my ball

A+1

A+1

A-1

1 Gen 19 Lyric's

7 11 82
+16 45-7 13 34
+5529

2. Gen

7 18 39
+281

13 Gen May

7 20 58
+831

35 0 164
249
368
187
35- 2140
28.20

0 4 62
13.3
26.3
13.0
4 14.70

30 4 27
12.6
211
101
34 11.62

6440
+139

7 4 2
+5046

7 9 4 1
+557

25 2 120
88) 2 1/2
3 1/2
1 1/2
27 2040

fall #
499 m.

20 0 399
83) 4 1/6
1 1/6
4 3/3
20 4840

A₊ A A₋

55 2 387
82) 4 1/2
5 1/2
4 1/0
57 4602

P 2. #

25 more Jan^{min} Blen Gr 1374
D 3136 D 3320 D3820 D4602
-351 +31 +2818 +7413

df df

45 2245
3 1/6
4 3/1
2 9/8
47 3225

50 2 453
5 1/2
7 1
4 1/2
52 5395

Mar 12

Gen
 56 31
 +28 67

27 Lynch
 75552
 +51 50

Bz 1147
 8512
 +76 6

55 3 300
 343
 496
 351
 58 3800

15 0 222
 299
 432
 242
 15 2987

554470
 586
 92
 488
 59 5590

8 23 33

-0 34

25 3 308

338

388

366

3500

4320

Seeing any bad

B. C. M. C.

$$\begin{array}{r} 8 \ 10 \ 28 \\ + 9 \ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \ 19 \ 3 \\ + 2 \ 29 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \ 19 \ 45 \\ + 1 \ 57 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \ 22 \ 14 \\ + 0 \ 38 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \ 2 \ 25.0 \\ 25.7 \\ 41.6 \\ \hline 33.0 \\ 32 \ 32.32 \end{array}$$

$$\begin{array}{r} 35 \ 1 \ 30.0 \ 30.7 \\ 33.4 \ 33.6 \\ 47.0 \ 47.4 \\ \hline 36.7 \ 36.2 \\ 36 \ 36.77 \ 86.85 \end{array}$$

A + 1

$$\begin{array}{r} 5.2 \\ 25.9 \\ 40.2 \\ 53.9 \\ 42.0 \\ \hline 40.50 \end{array}$$

A A + 1

$$\begin{array}{r} 25 \ 2 \ 10.2 \\ 13.2 \\ 16.0 \\ 15.9 \\ \hline 27 \ 13.82 \end{array}$$

A A - 1

72

$\text{Mau 14/155}^\circ = 71.7$
 15 Lyrus

DM
 64157

$+5145$

not seen

sum

6 44 0

$+5139$

25 2 108

24.1

258

17.4

$\frac{27}{1952}$

$\Delta + 345$

$\Delta - 2345$

~~2nd level~~

657 24

30 + 58 34

30 0 258

31.7

401

31.9

30

3387

$\Delta - 45$

DM

7 9 41

$+557$

7 Gen

7 133

$+1644$

19 Lyrus

7 1384

$+5529$

552 268

75

486

84

51.1

428

57 4482

$\Delta 2^{nd} 5 \text{ hr}$
-1

350 427

556

578

499

35 5150

$\Delta - 1$

3 Gen
6 5721
+2044

24
7 4 2
+553

7 7 18
+5118

20 1 90
186
187
186
21 1422

Tooft-
to Jansen

Toobad lining
to Jansen

C Gen
71838
+281

Jun ~~Thurs~~ ~~Mon~~ ~~Day~~ ~~Th~~
7 2059 73076 23 20 7 3148
+5215 ~~277~~ +5225 ~~713~~ 4554

0 3 542
61
87
44
4 335

5-0 1249
374
412
321
51 3390
Muyt

0 3547

not seen

0 3 541
70
182
120
4 657

88 on A+1
78 on A
By order

74

Mar 14

X Gen

$$\begin{array}{r}
 7 \ 39 \ 33 \\
 + 2440 \\
 \hline
 250 \ 108 \\
 22.2 \\
 257 \\
 210 \\
 \hline
 25 \ 1992
 \end{array}$$

Ti Gen

$$\begin{array}{r}
 7409 \\
 + 3342 \\
 \hline
 \end{array}$$

Cu 1374

$$\begin{array}{r}
 74632 \\
 + 7413 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 50 \ 2440 \\
 581 \\
 33 \\
 488 \\
 \hline
 52 \ 5355
 \end{array}$$

A+, A

Br 114x

8511x

$$\begin{array}{r}
 + 6 \ 6 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 54 \ 231 \\
 391 \\
 431 \\
 281 \\
 \hline
 9 \ 3335
 \end{array}$$

B Camen

81020

$$\begin{array}{r}
 + 532 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 30 \ 2 \ 139 \\
 10 \\
 68 \\
 62 \\
 \hline
 33 \ 215
 \end{array}$$

8 19 31

$$\begin{array}{r}
 + 229 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 35 \ 1 \ 8 \ 22 \ 324 \\
 394 \ 352 \\
 486 \ 487 \\
 446 \ 437 \\
 \hline
 36 \ 4120 \ 4100
 \end{array}$$

M
750 21

+1348

95 mi 15 3 4 50

92 Sec

18

9.6

56.8

18 54.30

Fall # on 4-11

(Pr # on 4-12 5-
in 4 Row)

Gen
7 5631

+28

553 346

453

502

44.6

58 4367

27 Lines

75513

+51 50

10 4 487

1.3

81

56.1

58.55

4.4
4.2-1

8 19 45

+157

5 2 35.1

43.0

52.0

46.2

7 44.07

A. A. -1

8 22 14

+0 38

25 2 23.8

60.7

10.5

45.1

27 40.02

4.1

8 23 33

-0 34

35 3 45.2

51.2

61

55.9

38 53.12

Mr 15 May

W	S
730	783
729	810
725	811
715	802
716	797
<u>122</u>	<u>3983</u>
744	7566
	7244
	<u>1210</u>

76.0 01-01-

717
43
11

c = -05

Mar 16 44 on

760	88.8
754	33.3
20.2	81.6
738	81.1
734	82.8
<u>72.4</u>	<u>12.6</u>
212	82.52
7424	82.53
73.53	7424
	<u>56.6</u>
	78.02
	78.4 set off

Mar 16 1893

Ju

B Can Mu

DM 7718 +5118

45 2 58 2

$$\begin{array}{r}
 102 \\
 210 \\
 66 \\
 \hline
 48 \quad 900
 \end{array}$$

55 2 58 18 +557

$$\begin{array}{r}
 90 \\
 220 \\
 328 \\
 193 \\
 \hline
 57 \quad 2120
 \end{array}$$
72058
+831

A-1

Mus
 1000 full moon +1

~~Register~~

1000

9000

75000

905 pm.

Ref 201 - then observations

DM

Blum T

$\begin{array}{r} 73256 \\ + 1454 \\ \hline 03286 \\ 9235.0 \\ 215- \\ \hline 80 \end{array}$

$\begin{array}{r} 73820 \\ + 18 \\ \hline \end{array}$

$\begin{array}{r} 91374 \\ 74602 \\ + 1413 \end{array}$

being too bad
for now.

Round spring off
down horn open

A + 1

A just so now

no
Clouds.

Mar 16

Blancin o Ameky

$$\begin{array}{r} 8\ 10\ 19 \\ + 75\ 32 \\ \hline \end{array}$$

$$\begin{array}{r} 8\ 20\ 47 \\ + 6\ 1\ 6 \\ \hline \end{array}$$

AR.

AR

clouds.

Mar 17

$$\begin{array}{r} 6\ 57\ 21 \\ + 20\ 44 \\ \hline \end{array}$$

$$\begin{array}{r} 7\ 04\ 02 \\ + 55\ 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7\ 7\ 18 \\ + 51\ 18 \\ \hline \end{array}$$

$$\begin{array}{r} 20\ 1\ 57 \\ 174 \\ 242 \\ 188 \\ \hline 21\ 1952 \end{array}$$

$$\begin{array}{r} 6\ 8\ 12.2 \\ 90 \\ \hline 223 \end{array}$$

$$\begin{array}{r} 45\ 3\ 315 \\ 407 \\ 528 \\ 462 \\ \hline 48\ 14280 \end{array}$$

A-1

W

Mar 17 1873 — C = 781
5169m

715
51-01-781
26
C = +.13

Dr

6412
9.0 15051

641 +7
+145
84

5-0 2186
33.1
408
25.0
2962

154 118
9.1 216
322
166
19 2055
A 3 59

A-1
no S

52
A + 60590

A
Longstone

7 18 14
+52 1

5 Gen
7 13 18
+22 11

7 20 +9
5215

7 22 31
+5024

0 4 53.9
9.1 56
14.8
594
5- 342
A-1

50 3 26.8
36.8
44.7
35.9
53 3605

9.1 40 2 32
A+1
20 S

40 2 32
8.1 138
22.1
7.6
42 1168
A-1

82

Mar 21

Sun

$$\begin{array}{r} 73016 \\ +5225 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 7314 \\ +554 \\ \hline \end{array}$$

$$\begin{array}{r} 73256 \\ +5952 \\ \hline \end{array}$$

~~Not seen~~
~~Sun~~

$$\begin{array}{r} 04380 \\ \text{---} 58.7 \\ \text{---} 58.2 \\ \text{---} 48.0 \\ 4 \quad \hline 4998 \end{array}$$

$$\begin{array}{r} 100154 \\ \text{---} 24.2 \\ \text{---} 30.2 \\ \text{---} 19.0 \\ 10 \quad \hline 22.20 \\ \text{---} \end{array}$$

X Sun

$$\begin{array}{r} 75221 \\ +5348 \\ \hline \end{array}$$

$$\begin{array}{r} 75225 \\ +4851 \\ \hline \end{array}$$

$$\begin{array}{r} 75630 \\ +287 \\ \hline \end{array}$$

$$153179$$

Not seen 9.3

Sun 9.1

$$\begin{array}{r} 153179 \\ \text{---} 28.2 \\ \text{---} 42.9 \\ \text{---} 22.1 \\ 18 \quad \hline 27.77 \end{array}$$

$$\begin{array}{r} 558266 \\ \text{---} 35.2 \\ \text{---} 49.1 \\ \text{---} 35.0 \\ 58 \quad \hline 3698 \end{array}$$

9.3 on A + 1 Regard
9.1 on A
one lettering

Mar 17

8 18 31

+229

$$\begin{array}{r}
 351 \quad 31.0 \quad 30.9 \\
 \quad 35.2 \quad 36.0 \\
 \quad 50.5 \quad 50.1 \\
 \quad 38.3 \quad 38.7 \\
 36 \quad \underline{38.75} \quad \underline{38.92} \\
 A + 1
 \end{array}$$

8 18 45

+157

$$\begin{array}{r}
 52 \quad 29.8 \\
 \quad 55.7 \\
 \quad 48.8 \\
 \quad 37.8 \\
 7 \quad \underline{38.02} \\
 A
 \end{array}$$

8 21 25

+113

$$\begin{array}{r}
 50 \quad 2 \quad 40.2 \\
 \quad 45.7 \\
 \quad 59.7 \\
 \quad 48.7 \\
 52 \quad \underline{48.57} \\
 A - 1
 \end{array}$$

Cancun

$$\begin{array}{r}
 8 \quad 3812 \quad \text{Cancun} \\
 71834 \quad 83548 \\
 \quad 72910
 \end{array}$$

L Anne Maj

8 5123

+4829

8 1314

+4214

$$\begin{array}{r}
 20 \quad 0 \quad 477 \\
 \quad 55.0 \\
 \quad 72 \\
 \quad 538 \\
 30 \quad \underline{55.92}
 \end{array}$$

$$\begin{array}{r}
 10 \quad 3 \quad 554 \\
 \quad 40 \\
 \quad 181 \\
 \quad 217 \\
 14 \quad \underline{5.05} \\
 A - 2
 \end{array}$$

$$\begin{array}{r}
 35 \quad 1 \quad 20.9 \\
 \quad 292 \\
 \quad 438 \\
 \quad 33.6 \\
 36 \quad \underline{31.87}
 \end{array}$$

8 235

+0 5

55 4 378

42.6

98.7

16.1

59 4630

RCurwen

826)

72048

15 0 52

151

282

14.8

15 1708

x Curwen

8 55 50

+47 36

25 4 87

154

32.2

12.2

1762

5-200

N.Y. State

Dr.
742

755 3

100 0 2 44.0

—
—

No other stars injured

4, 345

Yours strokes for
65 to 100

D. M.
7 8 18
7 8 18

45-3 11/6 7.6
18.8 15.8
94) 32.6 28.6
13.2 9.2
48 1930 15.30

A 12345

1,1234

$\text{N} = 4850 \text{ loti}$
 $= 3 \text{ strokes}$

73016
+5255

73168
4554

→ 32 56
754 54

7 34 16
+ 12 57

10 2 12 2
220
313
1213
12 1945
411

$$\begin{array}{r} 0 \quad 4 \quad 58 \\ 148 \\ \hline 261 \\ 70 \\ \hline 4 \quad 1342 \\ 41 \end{array}$$

10 2 203
283
8.5 40.0
21.6
12 2755
A-1

19 Lynx

71334

+55 29

851521

13.2

25.7

6.8

36 12.78

72059

5215

50 1 336

42.7

90

550

35.8

51 4177

A+1

72201

717 24

452 492

57.6

86)

10.7

51.6

47 57.28

A-1

7439

+52 14

74548

+50 5

7502821

~~74951~~

53 48

75028

+49 51

50 2 4.8

9.3

12.8

24.8

7.8

52 12.55

55 4 43.2

86)

52.2

6.1

45.7

59 51.20

20 3 51.8

86)

58.9

10.8

51.8

23 58.32

#?

face #

A-1

Ret. Indices

A-1

A

¹⁸
 Mary?

him 27 Lynce's
 7 5-601 7+9 B
 +28 6 #150

DM

8 7 36
 +52 46

10 4 47.6
 58.1
 9.0
 50.1
 14 56.20

20 3 38.3
 46.8
 59.0
 39.5
 23 45.90

#?

A A-

8 19 31

8 19 41

8 21 29

+12 29

+157

+113

35 1

31.6 31.8

5 2 23.1

50 2 42.4

34.4 34.7

26.0

45.9

49.1 47.7

39.0

57.8

37.2 36.8

28.4

47.7

36

38.08 37.75

7 29.12

52 48.45

Bancu

$$\begin{array}{r} 81020 \\ +933 \\ \hline \end{array}$$

$$\begin{array}{r} 8123 \\ +5140 \\ \hline \end{array}$$

$$\begin{array}{r} 8235 \\ +05 \\ \hline \end{array}$$

$$\begin{array}{r} 400186 \\ 263 \\ 367 \\ 261 \\ \hline 402542 \end{array}$$

$$\begin{array}{r} 83812 \\ +7834 \\ \hline \end{array}$$

$$\begin{array}{r} 350204 \\ 260 \\ 380 \\ 250 \\ \hline 352710 \end{array}$$

Mar 18

~~8 45 22~~ ~~Star~~~~16 22~~

Hydru

8 45 22

16 2 -

x banci

8 52 15

~~16 2 -~~
112 18

x 18 June Aug

8 55-50

147 36

40 2 159

209

33.6

230

42 2335

45-2 152

216

320

20.1

47 2222

25 4 97

150

30.0

112

29 1698

σ^2 Amey

9021

+6736

254 20.0

3.03

430

21.2

29 2862

Mar 19 1883 -

B Caneu

8 10 20

+ 19 32

30 2 5 7.2

4.3

17.1

6.3

33

6.22

8 19 31

+ 229

35 1 28.6 29.9

34.0 32.6

46.2 46.5

35.3 35.6

36 36.02 36.48

8 19 45

+ 157

5 2 13.0

18.5

32.5

20.4

7 21.8

A₆ to A₁

h Caneu

8 26 7

+ 20 50

15 0 26.8

46.8

55.2

42.2

15

45.25

J Caneu

8 38 12

+ 11 35

30 0 55.3

17

12.8

0.5

31 2.65

f Ryder

8 45 22

+ 6 23

40 2 9.3

16.1

27.9

18.7

42 18.00

$$\begin{array}{r} 82214 \\ +038 \\ \hline \end{array}$$

$$\begin{array}{r} 25.2 \quad 30.4 \\ 34.8 \\ 49.1 \\ 37.6 \\ \hline 27 \quad 8798 \end{array}$$

$$\begin{array}{r} 82333 \\ -034 \\ \hline \end{array}$$

Too late

Canon

$$\begin{array}{r} 85215 \\ +1217 \\ \hline \end{array}$$

$$452142$$

$$221$$

$$327$$

$$212$$

$$\begin{array}{r} 47 \quad 2255 \end{array}$$

~~g² Jueky & N Dwe~~

$$\begin{array}{r} \del{82333} \\ \del{5021} \\ +6736 \\ \hline \end{array}$$

$$92045$$

$$+1150$$

Mar 21 1885

[Signature]

[Signature]

$$\begin{array}{r} 7 \ 4 \ 2 \\ + 55 \end{array} \quad 3$$

$$\begin{array}{r} 7 \ 7 \ 18 \\ + 57 \end{array} \quad 18$$

$$\begin{array}{r} 7 \ 8 \ 14 \\ + 52 \end{array} \quad 1$$

99)

$$\begin{array}{r} 0 \ 3 \ 268 \\ 352 \\ 466 \\ 277 \\ \hline 3407 \end{array}$$

92)

$$\begin{array}{r} 453 \ 415 \\ 508 \\ 28 \\ \hline 438 \\ 48 \ 4980 \end{array}$$

94)

$$\begin{array}{r} 0 \ 4 \ 538 \\ 28 \\ 140 \\ \hline 562 \\ 5 \ 170 \end{array}$$

A_{+12345}
#1

A_{+12345}
#1

A_{+12345}
35000 ft

$$\begin{array}{r} 7 \ 32 \ 48 \\ + 17174 \\ \hline 55-4 \end{array}$$

$$\begin{array}{r} 7 \ 39 \ 16 \\ + 52 \ 57 \end{array}$$

$$\begin{array}{r} 7 \ 50 \ 21 \\ + 53 \ 98 \end{array}$$

97)

$$\begin{array}{r} 0 \ 478 \\ 158 \\ 275 \\ 150 \\ \hline 4 \ 1662 \end{array}$$

93

$$\begin{array}{r} 0 \ 3 \ 46.1 \\ 538 \\ 87 \\ \hline 46.2 \\ 3 \ 5370 \end{array}$$

50 2 438

$$\begin{array}{r} 54532 \\ + 5413 \\ \hline 536 \\ 33 \\ \hline 418 \end{array}$$

96 hr

$$\begin{array}{r} 03520 \\ 96 \text{ hr} \ 12 \\ 92 \text{ hr} \ 12 \\ \hline 52.1 \\ 18 \ 59.37 \end{array}$$

A_{+1}

#?

A_{123}

[Signature]

52 5062 9200 A_{+1}

(9 on A_{+1} 345
208-1)

$$\begin{array}{r} 72059 \\ + 5255 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 72231 \\ + 5024 \\ \hline \end{array}$$

$$\begin{array}{r} 73016 \\ + 5255 \\ \hline \end{array}$$

$$501306$$

$$350$$

$$9.3) 170.3$$

$$31.3$$

$$51 \quad 37.80$$

$$+1$$

$$401418$$

$$50.2$$

$$84) 06$$

$$42.8$$

$$41 \quad 48.85$$

$$+1$$

$$5-4 \quad 41.8$$

$$49.8$$

$$89) 1.8$$

$$41.0$$

$$9 \quad 48.60$$

$$+1$$

$$\begin{array}{r} 75028248 \quad 120 \\ + 4951 \\ \hline 75631 + 286 \end{array}$$

$$\begin{array}{r} 8736 \\ + 5246 \\ \hline \end{array}$$

$$553406 \quad 150453$$

$$48.3$$

$$57.8$$

$$43.6$$

$$5-3 \quad 47.57$$

$$53.5$$

$$4.2$$

$$45.2$$

$$15 \quad 5205$$

$$30135.8$$

$$44.2$$

$$54.8$$

$$35.8$$

$$31 \quad 42.65$$

Mar 21

~~$$\begin{array}{r} 22 \\ 82 \\ 123 \\ 15140 \end{array}$$~~

B Cancri

8 10 20

+9 32

30 2 32

50.8

5.2

5.79

 η Cancri

8 26 6

+20 49

10 4 39.2

46.1

56.1

43.4

14 46.20

 γ Cancri

8 35 12

+18 34

30 0 33.6

38.8

48.2

+35.6

30 39.05

 ϵ Cancri

8 35 47

+29 10

50 4 2.2

9.1

20.4

5.1

54 9.20

8 1931

+229

8 1945

+157

8 2129

+113

8 239

+05

35	2	30.2	312
		35.0	35.0
		46.8	47.1
		36.0	35.3
376		<u>37.25</u>	<u>37.15</u>

A₁₁

5 2 39.8

42.8

56.6

43.8

7 45.78A₁₁

50 2 47.4

51.2

4.3

51.5

52 53.62

X

55 4 56.0

59.8

12.9

0.8

0 2.38

3 My den
8 4522
+623

2 Oman' Ordure Ky
8 5215
+1218

5021

+6736

40 2 20.0

24.8

36.7

25.4

42 26.72

Ouel pivot

45 2 17.7

23.2

33.1

21.6

47 23.90

Mar 13 1883 -

B21157

~~815588~~ 511
-332 +76 6

810 20

+9 32

AR

30 2 589

58

148

6.0

33 5.87

2 Cancri

826 77

+20 50

3 Cancri

838 12
+1864

1 Cancri

835 98

+29 11

104 423

492

09

476

14 5600

30 0 487

542

59

511

30 55.22

50 3 577

58

174

37

54 6.15

A22C

$$\begin{array}{r} 8 \ 1931 \\ +229 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \ 1945 \\ +157 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \ 2129 \\ +113 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \ 23 \overset{9}{28} \\ + \overset{5}{10} \\ \hline \end{array}$$

$$\begin{array}{r} 35 \ 1 \ 29.6 \ 290 \\ 336 \ 334 \\ 464 \ 462 \\ 35.2 \ 35.3 \\ \hline 36 \ 3620 \ 35.98 \end{array}$$

$$\begin{array}{r} 5 \ 2 \ 468 \\ 520 \\ 41 \\ 532 \\ \hline 7 \ 5402 \end{array}$$

$$\begin{array}{r} 50 \ 2 \ 244 \\ 277 \\ 414 \\ 306 \\ \hline 52 \ 31.07 \end{array}$$

$$\begin{array}{r} 55 \ 4 \ 522 \\ 25? \\ 53.7 \\ 8.7 \\ 58.2 \\ \hline 59 \ 5870 \end{array}$$

$$\begin{array}{r} 3 \ \text{Hydru} \\ 849 \ 22 \\ +622 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \ 7/6 \ \text{Duce} \\ 28204 \ 1 \\ +1152 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \ 2 \ 161 \\ 21.5 \\ 326 \\ 238 \\ \hline 42 \ 2360 \end{array}$$

AR

2
Mar 24
5h

✓ 730	738
723	731
726	731
740	728
750	728
<u>168</u>	<u>156</u>
7038	7012
<u>7038</u>	<u>7012</u>
	50
	73.3 set-21

Mar 25
5^h 12

750 749

740 741

750 756

751 746

741 766

252 258

7504 7516

7516
7504
75250105

Mar 25

$$\begin{array}{r} 4 \\ 453 \\ 156 \\ 274 \\ 453 \\ 322 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \ 4 \ 2 \\ 753 \\ 98 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \ 7 \ 15 \\ 757 \ 18 \\ 91 \ 45 \ 3 \ 156 \\ 274 \\ 493 \\ 322 \\ \hline 48 \ 31.92 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \ 8 \ 14 \\ 94 \ 7521 \\ 245 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \ 30 \ 16 \\ 75255 \\ 15 \ 1 \ 52 \\ 151 \\ 272 \\ 1112 \\ \hline 16 \ 1468 \end{array}$$

$$\begin{array}{r} 7 \ 31 \ 48 \\ 754 \\ 4 \ 87.8 \\ 98 \ 491 \\ 88 \ 88 \\ 44.8 \\ \hline 4 \ 4812 \end{array}$$

$$\begin{array}{r} 7 \ 32 \ 56 \\ 75454 \\ 10 \ 8 \ 288 \\ 90 \ 399 \\ 513 \\ 850 \\ \hline 13 \ 38.70 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \ 30 \ 16 \\ 75255 \\ 15 \ 1 \ 52 \\ 151 \\ 272 \\ 1112 \\ \hline 16 \ 1468 \end{array}$$

$$\begin{array}{r} 7 \ 31 \ 48 \\ 754 \\ 4 \ 87.8 \\ 98 \ 491 \\ 88 \ 88 \\ 44.8 \\ \hline 4 \ 4812 \end{array}$$

$$\begin{array}{r} 7 \ 32 \ 56 \\ 75454 \\ 10 \ 8 \ 288 \\ 90 \ 399 \\ 513 \\ 850 \\ \hline 13 \ 38.70 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \ 30 \ 16 \\ 75255 \\ 15 \ 1 \ 52 \\ 151 \\ 272 \\ 1112 \\ \hline 16 \ 1468 \end{array}$$

$$\begin{array}{r} 7 \ 31 \ 48 \\ 754 \\ 4 \ 87.8 \\ 98 \ 491 \\ 88 \ 88 \\ 44.8 \\ \hline 4 \ 4812 \end{array}$$

$$\begin{array}{r} 7 \ 32 \ 56 \\ 75454 \\ 10 \ 8 \ 288 \\ 90 \ 399 \\ 513 \\ 850 \\ \hline 13 \ 38.70 \\ \hline \end{array}$$

$$\begin{array}{r}
 \triangleright 2059 + \cancel{5277} \quad \triangleright 2231 \\
 + 5215 \quad + 5024 \\
 \hline
 50 \ 1 \ 2 \ 2 \ 2 \quad 40 \ 2 \ 0 \ 3 \\
 33'4 \quad 86 \ 12'0 \\
 90 \ 44'0 \quad 23'7 \\
 28'2 \quad 7'2 \\
 51 \ 3195 \quad 42 \ 1080 \\
 \hline
 A+1 \quad A+1-1
 \end{array}$$

$$\begin{array}{r}
 \checkmark \text{ Gen} \\
 \triangleright 2219 \\
 + 32 \ 8 \\
 \hline
 55 \ 1 \ 45- \\
 55'8 \\
 5'6 \\
 52'5 \\
 5-6 \ 54.85-
 \end{array}$$

$$\begin{array}{r}
 \triangleright 3416 \\
 + 5257 \\
 \hline
 84 \ 5 \ 4 \ 3 \ 8 \ 8 \\
 50'7 \\
 3'0 \\
 45'2 \\
 9 \ 49.45 \\
 \hline
 A+1
 \end{array}$$

$$\begin{array}{r}
 \text{Blen} \\
 \triangleright 50.21 \\
 73820 \\
 + 2818 \\
 45 \ 1 \ 2 \ 56 \\
 35'6 \\
 45'3 \\
 333 \\
 46 \ 34.95- \\
 \hline
 A+1
 \end{array}$$

$$\begin{array}{r}
 92.1374 \\
 \triangleright 4632 \\
 + 74 \ 13 \\
 50 \ 2 \ 510 \\
 3'8 \\
 13'6 \\
 54'0 \\
 53 \ 0.60
 \end{array}$$

Mar 25 1875

7 50 21
+ 53 48

94
9.6

15 3 158
279
388

18 21.3
2595

Big Somestokes point

Reg. or dir

9.4 on A₂ to A₉

9.6 on A-1

7 Gen 31
~~7 50 21~~
~~+ 53 48~~
+ 28

55 3 309
41.4

517

357

58 40.92

8 19 31
+ 229

8 19 45
+ 157

8 21 29
+ 113

35 1 30.8 30.1
36.4 36.6
48.8 48.8
49.7 39.8
36 39.8 3882

A

55 2 39.0
45.8
59.0
49.7
57 48.38

50 2 49.0
55.0
7.8
57.9
52 57.42

A₊, A

27 *Lupin's* Br. 1147 B Caneu

15 0 30.2
41.4
53.2
35.8
15 40.15

8 5 12
776 6
55 4 40.4
52.8
2.7
43.4
59 49.75

8 10 20
75 32

A+1 28c

30 2 26.0
34.1
44.0
36.0

32 35.02

8 23 9
+0 5

0 0 8.9
14.0
26.8
17.3
0 16.75

~~16.75~~

2 Caneu

8 26 7
+2050
15 0 33.2
42.7
52.9
41.4
15 42.55

1 Caneu

8 38 12
+1830
30 0 52.3
1.1
11.1
0.7
31 1.30

1 Caneu

8 39 47
+29 10
50 4 22.1
33.1
44.7
31.2
54 32.78

A+1 38c

Mar 48 1173-

Lynx

7 13 x 4

+55 30

B Cam Min

D 20 54

+8 31

Dm

7 30 16

+12 55

$$\begin{array}{r}
 350 \quad 118 \\
 263 \\
 442 \\
 268 \\
 \hline
 35 \quad 2727
 \end{array}$$

$$\begin{array}{r}
 30 \quad 3 \quad 50.9 \\
 0.8 \\
 190 \\
 9.6 \\
 \hline
 34 \quad 5.07
 \end{array}$$

$$\begin{array}{r}
 5 \quad 4 \quad 370 \\
 527 \\
 109 \\
 506 \\
 \hline
 9 \quad 5280
 \end{array}$$

27 Lynx

78 x 5 52

+57 50

$$\begin{array}{r}
 50 \quad 4480 \\
 46 \\
 228 \\
 47 \\
 \hline
 55 \quad 527 \\
 16
 \end{array}$$

Dm

8 736

+12 46

20 1 51.6

80
9.3

5.9

25.2

1.0

22 692

W 80 580

80 on 1200
9.3 on 24

Canini

7 33 20

+ 5 31

Ln 1374

7 46 32

+ 54 13

Dm

7 50 28

+ 9 51

80 3 48

16'4

34.1

25.2

83

20.13

A₄₀ to 90

Ref J

~~8.5~~

15.1 13

16.6

36.8

17.0

16.1792

- 1.45

8 120

+ 57 40

20 4 108

85 25.8

90 45.6

25.6

24 269.5

8.5 on A₄₀ to 9020 on A₄₀

Min 28

8 18 45
+551

8 20 7
+5228

8 22 14
+038

0 1 17.2
31.3
49.7

88
No. 5
A₊₁

25 2 22.5
30.7
51.3
40.9
27 36.35

A₊₁

A₊ A₊
+ +

off

8 23 33

8 53 23

7550

-034

354

11

106

215

212

1618

139
A. 4
-1

Mar 29/1885

c

a of lu
adjustment

25 83.0	745
82.2	747
82.1	74.1
83.0	753
82.2	72.5
<u>125</u>	<u>228</u>
82.50	748
	<u>1252</u>
	15658
	785-

Clear Veticule
Removal portion
Veticule

21 330	25.1
51.6	272
3.5	278
31.6	251
51.6	26.1
<u>96</u>	<u>313</u>
4 3152	2626
	3152
	<u>5818</u>
21	29.1
	Set-01-

~~Dr~~
8 736
+ 5246

20 3 592
129
83) 25.8
8.7

~~Dr~~
8 123
+ 5740

11-4 466
559
88) 158
555-2

~~8 1845~~
~~+ 551~~

#?
no other seen
A 2 C 1-1
4

folle #
A 71

Mar 25

~~DM~~~~750 28~~~~+49 17~~

F.2)

151 214

35.8

50.2

30.2

27 Lynce's

7 59 13

+51 10

150 418

0.8

16.0

56.3

16 047

~~DM~~~~81 20~~~~+54 37~~

130 128.3

51.2

5.0

47.2

A 45

no other star
in field

A 71

no other star
in field except
a very faint one

8 19 31

+229

OK

8 19 45

+157

8 21 29

+1 13

8 23 33

~~8 22 29~~

+0 34

35-1 29.9 29.8

37.9 35.4

54.1 53.9

42.3 42.4

41.05 41.2

36

A 71

5 2 11.7

20.0

35.8

24.2

22.92

A 345

Not seen

35 4 21.6

29.7

48.8

31.8

39 3348

A A-

Mar 29

Sun

$$\begin{array}{r} 8 \ 31 \ 4 \\ + 52 \ 14 \\ \hline \end{array}$$

551 214

7.6

34.8

49.6

300

J' Cancer

$$\begin{array}{r} 8 \ 35 \ 12 \\ + 11 \ 34 \\ \hline \end{array}$$

3 My den

$$\begin{array}{r} 8 \ 49 \ 22 \\ + 6 \ 23 \\ \hline \end{array}$$

40 2 209

306

460

351

42 3315

No other stars seen

3 Cancer

9 12 37

+ 11 11

11 Dwed

9 20 45

+ 11 50

50 4 37

129

258

147

54

1478

n Cucci

85215

+1217

45-2122

231

360

2570

47

24.08

O² Yunc by
~~O² Yunc~~

9021

+6736

AR,

O² Yunc

9826

+248

152236

332

467

388

17 36.07

Mar 31
6h 0m

$$\begin{array}{r}
 270 \quad 31.0 \\
 271 \quad 29.2 \\
 277 \quad 29.8 \\
 278 \quad 30.9 \\
 278 \quad 29.6 \\
 \hline
 384 \quad 150.5 \\
 2768 \quad 3010 \\
 \quad 2565 \\
 \quad 5555 \\
 \quad 289 \text{ set at}
 \end{array}$$

Jan

$$\begin{array}{r}
 730 \quad 16 \\
 +5255 \\
 \hline
 0 \quad 4 \quad 326 \\
 84) \quad 461 \\
 \quad 02 \\
 \quad 421 \\
 \quad \hline
 4 \quad 4525 \\
 \checkmark \\
 \#?
 \end{array}$$

$$\begin{array}{r}
 734 \quad 16 \\
 +5257 \\
 \hline
 10 \quad 0 \quad 292 \\
 88) \quad 404 \\
 \quad 57 \\
 \quad 364 \\
 10 \quad 4042 \\
 \checkmark \\
 \text{(scribble)}
 \end{array}$$

$$\begin{array}{r}
 8 \quad 120 \\
 +5437 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 8736 \\
 +5246 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 8123 \\
 +5140 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 30 \quad 1242 \\
 80) \quad 362 \\
 \quad 308 \\
 \quad 54 \\
 \quad 312 \\
 31 \quad 3560
 \end{array}$$

the grey star seen
4 A A-1
H

$$\begin{array}{r}
 89) \quad 20 \quad 8 \quad 390 \\
 \quad 502 \\
 \quad 57 \\
 \quad 463 \\
 23 \quad 5018
 \end{array}$$

#? Mo
with star seen

Not
seen

$$\begin{array}{r}
 \checkmark \\
 \text{Blen} \\
 73820 \\
 + 2818 \\
 \hline
 452185 \\
 293 \\
 436 \\
 298 \\
 \hline
 47 \quad 3030
 \end{array}$$

$$\begin{array}{r}
 \checkmark \\
 \text{ln. 1374} \\
 74632 \\
 + 74 \times 3 \\
 \hline
 50362 \\
 205 \\
 337 \\
 129 \\
 \hline
 53 \quad 1832 \\
 \hline
 \Delta - 1
 \end{array}$$

$$\begin{array}{r}
 \checkmark \\
 \text{Dm} \quad \text{X Gen} \\
 75028 \quad 7563 \\
 + 4951 \quad + 287 \\
 \hline
 151342 \quad 553404 \\
 461 \quad 523 \\
 28 \quad 531 \\
 430 \quad 519 \\
 \hline
 16 \quad 4652 \quad 58 \quad 5250
 \end{array}$$

The only star in
field

$$\begin{array}{r}
 8.1845 \\
 + 551 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 8.1931 + 229 \\
 8.204 \\
 + 5228 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 8.2214 \\
 + 038 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 8.2333 \\
 - 034 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 20 \\
 350 \quad 45.2 \\
 53.0 \\
 9.0 \\
 \hline
 \text{Not} \\
 \text{Long} \quad 2.6
 \end{array}$$

$$\begin{array}{r}
 350 \quad 45.2 \\
 53.0 \\
 9.0 \\
 52.6 \\
 \hline
 35 \quad 57.60 \\
 \hline
 \Delta - 1
 \end{array}$$

$$\begin{array}{r}
 251 \quad 52.9 \\
 43 \\
 218 \\
 112 \\
 \hline
 27 \quad 9.65 \\
 \hline
 \Delta - 1
 \end{array}$$

$$\begin{array}{r}
 254 \quad 43 \\
 111 \\
 282 \\
 180 \\
 \hline
 29 \quad 15.40 \\
 3 \\
 \hline
 \Delta - 1
 \end{array}$$

Mar 20

8314

+52 14

Not seen

J Cancer

83812

+1834

γ Hydrom

84522

+6 23

300395

480

25

50.1

30

5-0.10

50 2 204

287

438

34.1

52 31.75

2' June 1904
 85124
 41829

10 June 1904
 85314
 45214

X June 1904
 85550
 44737

35109
 114
 270
 70

 26 1157

254287
 2 408
 556
 370

 29 4052

Apr 1, 183

368 222

378 206

378 191

366 218

378 212

368 1049

3736 2098

3736

5834

29.2

51-81

63 Aug 1

7 349
+ 3830

850 171

299

501

330

35 3252

7 Gen

7 1132

+ 1644

200 61

130

327

219

20 1842

Ag 20

25 Mar

7 3016

7 3136

+ 5255

54 538

87

81

48

87

10

960

7 3256

+ 5414

20 Aug 11

7 3320

+ 531

30 3 29

151 127

48 340

82 253

33 1872

19 Lynds
 $\triangleright 1334$
 $+5530$

Ln 308 BCoulin
 $\triangleright 190$ $\triangleright 2018$
 $+6842$ $+831$

850 JB6
 $\begin{array}{r} 81 \\ 297 \\ 100 \\ \hline 36 \end{array}$
 $\frac{1035}{11}$
 $\begin{array}{r} 300 \\ + \end{array}$

204 44 303 130
 $\begin{array}{r} 222 \\ 412 \\ 189 \\ \hline 24 \end{array}$
 $\frac{2168}{24}$
 $\begin{array}{r} 227 \\ 440 \\ 338 \\ \hline 83 \end{array}$
 $\frac{2837}{83}$
 A-1

Blsen
 $\triangleright 3820$
 $+2818$

452 333
 $\begin{array}{r} 463 \\ 61 \\ 501 \\ \hline 47 \end{array}$
 $\frac{4895}{47}$

Ln 1374
 $\triangleright 4632$
 $+7413$

A
 W.R.

DL
 $\triangleright 5028$
 $+4951$

93) 150303
 $\begin{array}{r} 440 \\ 51 \\ 497 \\ \hline 15 \end{array}$
 $\frac{4602}{15}$
 A-1

The only star seen
 Certainly no 80 star in field

120

Am
 8 120
 +54 37

DM
 8 7 36
 +5246

DM
 8 12 3
 +57 40

30 1 26.8
 41.1
 8.2) 1.1
 43.0
 31 43.00

20 2 47.6
 0.3
 8.7) 22.1
 1.6
 23 290

10 4 39.3
 9.6 53.2
 15.0
 55.0
 14 55.62

A₋₁ A A₊₁

A₊₁ A₋₁

8 21 29
 +1 13

50 4 10.2
 18.8
 42.1
 29.9
 54 29.25
 5.9

A_{-1.25}

8 22 14
 +0 38

25 0 17.6
 24.8
 48.1
 37.2
 25 3192

A

8 23 33
 -0 34

Lost

DM
 8 1845
 +851

full. star

no δ

DM
 8 20 7
 +52 28

35 4 37.7

13.0

99 A+1 A123

~~A122458~~

88 pre. star on A-1

pre. 8.8

9.4

8 31 4
 +52 14

pre. star on A

full. star on A-1

regular order 3 plates for 2^d δ
 Pres. 1 stroke for 1st δ

50 3 56.8
 11.8
 32.8
 11.6
57 1325

δ Cancri

8 38 12

+18 34

30 1 0.8

9.8

30.7

18.0

31 14.82

A+1 A

ϵ Cancri

8 39 48

+29 11

50 4 57.7

11.2

30.6

16.3

55 13.95

Apr 1875

384 287

378 283

381 254

381 261

370 261

370 261

370 261

3768 274076

3768

654 84

327 84

Mr. Hub 115

362 238

376 235

376 258

352 252

357 239

303 2458

3606 3606

6084

204 sel-01-

Wue 1M
 Du Du

8 706
 52 46

8 12 0
 + 5140

6 19 31
 + 229

20 1 58.7
 90) 14.2 87)
 324
 12.8
 22 1478

20 4 20.4
 35.7
 54.1
 34.3
 24 36.12

~~35 1 27.3 27.4
 36.3 36.4
 55.2 56.0
 45.2 45.4~~

35 0 57.7
 7.2
 26.8
 16.1
 36 1195

A 2345
 +
 45?

A-1
 The only plain
 seen.
 Conus too soon?

A-1

η Cancri
 18 26 6
 + 20 49

15 0 16.8
 28.8
 45.8
 31.8
 15 3080

δ Cancri
 8 38 12
 + 18 34

30 0 59.0
 8.8
 26.2
 14.4
 31 1210

ε Cancri
 8 39 48
 + 29 10

50 4 57.0
 10.2
 27.7
 14.0
 55 7222

A+1 3 40

A+1 A

8 19 45
+157

8 21 29
+113

8 22 14 8 23 33
+038 -034

Lost

50 2 44.8
55.1
147
5.1
59.92

25 2 4.3 35 4 6.3
13.7 16.2
34.2 37.0
23.0 24.4
27 1880 39 1098

A+1 A₁₋₅

A₃ V₂

A₇₈₉ ¹⁸ ₂₀

8 14 dme
8 49 22
+6 22

40 2 27.8
39.8
57.9
49.1
43.65

2 Caneri
8 52 15
+12 18

45 2 27.8
40.8
59.4
46.1
47 4302

10 7m Maj
8 53 14
+42 14

50 0 36.1
48.3
6.1
47.2
50 49.42

A+1 A

A-1

K Un May

8 55 50

+47 36

5 25 3 53.4

7.2

25.8

7.2

29 8.40

A A-1

Q2 Un May

9 0 21

+67 36

30 0 15.8

32.7

49.2

28.8

30 31.42

obj

1 26 Duffe

9 20 45

+81 50

A

Apr. 7

Put on level and adjusted

Up

Down

E U

E U

17.2	13.2
17.8	13.2
17.6	13.3
17.8	13.2
<hr/> 29	<hr/> 9
1725	1322
	1725
	<hr/> 1047
	1523

11.2	10.2
15.8	6.0
9.8	11.9
15.9	5.8
<hr/> 527	<hr/> 339
1318	8.48
	1318
	<hr/> 2166
	1083
	1523
	440
	220
	22
	<hr/> 44
	44

$$\text{Pb} = -4.8$$

Aug 1883

BR 1147

512

+766

55.4 228

40.2

55.2

34.2

59 3810

B Canes

810 20

+532

~~351 269~~
~~10.9~~
~~58.0~~

81931

+229

351 29.9 29.9

40.9 40.9

58.3 58.9

47.0 47.0

36 44.02 44.18

A+1

n Canes

Pm

526 D

+2052

8314

+5214

Pm

91322

+5130

150 28.7

42.0

56.7

43.9

15 4282

551 21.6

84 36.8

53.6

34.4

56 3660

A+1 A-1

 Certainly the only
 star in field

~~8.14~~

not seen

seen

$$\begin{array}{r} 8 \ 1945 \\ +157 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \ 2129 \\ +113 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \ 239 \\ +05 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \ 2 \ 24.8 \\ 35.9 \\ 53.2 \\ 42.0 \\ \hline 7 \ 38.98 \end{array}$$

A₃8C

$$\begin{array}{r} 50 \ 2 \ 18.2 \\ 29.8 \\ 47.1 \\ 36.7 \\ \hline 52 \ 32.95 \end{array}$$

A+1 A

$$\begin{array}{r} 55 \ 4 \ 4.35 \\ 52.2 \\ 11.5 \\ 5.88 \\ \hline 59 \ 56.75 \end{array}$$

A₁, A A₋,D₁₁

$$\begin{array}{r} 9 \ 1836 \\ +5014 \\ \hline \end{array}$$

x Hydru

$$\begin{array}{r} 92109 \\ -810 \\ \hline \end{array}$$

D₁₁

$$\begin{array}{r} 9 \ 2616 \\ +5237 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \ 3 \ 48.7 \\ 3.6 \\ 23.2 \\ 3.2 \\ \hline 54 \ 4.68 \end{array}$$

A

$$\begin{array}{r} 10 \ 4 \ 34.4 \\ 42.2 \\ 2.0 \\ 49.4 \\ \hline 14 \ 4700 \end{array}$$

$$\begin{array}{r} 30 \ 2 \ 34 \\ 18.2 \\ 36.0 \\ 16.0 \\ \hline 32 \ 1840 \end{array}$$

Aug 11th

Dm

9 32.56

51 /

~~2~~

Not seen time

Raw 2404

9 50.0

R_{A₁₀₋₂₀} A₆₀₋₉₀C₃₁₋₅₂
~~Raw 2407~~
~~9 58.7~~

Obs for Perseus Equation in Pans

Sch 575-9

9. 40.3

R

C

A_{10-30} 6, 22

A_{31}

Sch 587

9 44.9

R A_{10-30}

A_{8290} H+1

C CA A

obs very poor
star very fr

obs poor

29 H Camel

10 12.7
C $12-31$ $71-90$

R $32-70$

32 H Camel. Te C.
22. 3
10 12.7

A_{10}
C A_{10-30} A_{70-90}

R $A_{31} - A_{62}$

Apr 9, 1888

33 Sect

10 25 30

-1 9

~~5~~ 10 2 11.3

21.5

~~40.2~~

29.1

A¹²₋₁25.52

Mar 14

Dm

8 314

+52 14

55 0 517

5.2

24.2

5.0

56 6.52

Sel-M 300

i Wmshy

8 5-124

+44 29

551 197

312

49.3

300

56 32.42

A T1

Dm

8 53 23

+55 0

5-2 3.4

81) 15.2

36.1

158

7 18.12

9 20 28

+1037

9 20 25

+1034

9 23 12

+1138

30 02 1.8

16.1

36.0

15.0

32 17.22

A T1

7.5 m √

A T1

6 0 272

41.2

59.1

35.3

0 41.70

ohy

ohy

ohy

$$\begin{array}{r} 9916 \\ +5017 \\ \hline \end{array}$$

$$\begin{array}{r} 91339 \\ +547 \\ \hline \end{array}$$

$$\begin{array}{r} 91687 \\ +5439 \\ \hline \end{array}$$

$$\begin{array}{r} 404535 \\ 101 \\ 246 \\ 90 \\ \hline 451055 \end{array}$$

89
92

$$\begin{array}{r} 00387 \\ 534 \\ 127 \\ \hline \end{array}$$

$$\begin{array}{r} 20128 \\ 93/163 \\ 358 \\ 177 \\ \hline 211765 \end{array}$$

chg

89 on 4+1
92 on 4+1 no S

chg.
A-1

$$92656$$

$$\begin{array}{r} +5420 \\ 452297 \\ 442 \end{array}$$

$$\begin{array}{r} 95- \\ 28 \\ 430 \\ \hline 474492 \end{array}$$

A+1 A

$$42 \text{ Lemin}$$

$$\begin{array}{r} 103931 \\ +3117 \\ \hline \end{array}$$

$$\begin{array}{r} 452582 \\ 118 \end{array}$$

$$\begin{array}{r} 302 \\ 138 \\ \hline 481350 \end{array}$$

$$3 \text{ Lume King}$$

$$\begin{array}{r} 105737 \\ +550 \\ \hline \end{array}$$

Aug 14

2 June Aug

10 56 41

+ 221

7 June Aug

11 3 15

+ 45 7

40 3 311

46'8

66

448

43

4730

Sun -

$$\begin{array}{r}
 386 \quad 240 \\
 388 \quad 268 \\
 400 \quad 260 \\
 388 \quad 265 \\
 358 \quad 180 \\
 \hline
 472 \quad 313 \\
 3944 \quad 2626 \\
 \quad 3544 \\
 \quad 6850 \\
 \quad 33 \quad \text{set of} \\
 \quad 32.8 \quad \text{set at} \\
 \quad 30.0 \\
 \hline
 - 2.8 \\
 c = -.03
 \end{array}$$

Aug 16 @ = 33.3

8 19 31
+ 229

35 1 328
40' 9
0' 7
4' 52
36 46.02

~~8 19 31~~
~~+ 229~~

h. Caven

8 26 7 + 20 50
15 0 28

150
319
1890
15 1968
1718
4420

8 22 14
+ 238

Phu
8 53 23
+ 550

5 2 345
490
831 8' 8
480
7 4992

1+1 A A-1

0² Line Key & Hydri

9 0 21

+ 6736

25 4 582

151
326
111
30 1425

98 26

+ 248

152 222

29' 8
997
3462
17 3698
3448

$$\begin{array}{r} 8 \ 2333 \\ - 034 \\ \hline \end{array}$$

Rowen to Nyden

$$\begin{array}{r} 8 \ 3812 \\ + 1134 \\ \hline \end{array}$$

$$\begin{array}{r} 84522 \\ + 623 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \ 1 \ 40 \\ \quad 142 \\ \quad 316 \\ \quad 288 \\ \hline 31 \ 1965 \end{array}$$

$$\begin{array}{r} 40 \ 2 \ 59 \\ \quad 156 \\ \quad 349 \\ \quad 248 \\ \hline 2030 \end{array}$$

40 Lynce

$$\begin{array}{r} 9 \ 46 \\ + 3413 \\ \hline \end{array}$$

$$18 \ 3 \ 117$$

$$241$$

$$430$$

$$250$$

$$13 \ 2695$$

du

$$\begin{array}{r} 9 \ 1836 \\ + 50 \ 14 \\ \hline \end{array}$$

$$50 \ 4242$$

$$358$$

$$03$$

$$388$$

$$4102$$

$$54 \ 471$$

140 Duwe

$$\begin{array}{r} 5 \ 2446 \\ + 50 \\ \hline \end{array}$$

WR

40 to 60

M 16

h Muncy Ky
 92202
 12304

h Muncy Ky
 92618
 152 34

30 2 16.0
 30.2
 486
 277
 32 3062

30 141.6
 548
 138
 550
 31 5630
 A

Dr

93256

+57 1

no such

star in

field

Apr 22, 1884 Obs of Polaris for

9	50.2		9	55.4
84	28.4		100	14.
C	R	C	R	C
			2	2
			A ₆	
	A ₉ 2 up to the 2		R	
			C	C
			R	A₁₅₄
			A ₁₅₄	A ₁₂₁
			A ₉₋₇₀	A ₆₁₋₃₂
			A ₁₂₁	A ₁₅₄
			A _{304C}	

list

10 13.0
84 50.

R C R

16 17.0
83 8.6

C R C
40

Proton Equation

10 4.8
79 30
C R
A₁₀₋₂₀ 60-90

10 9.9
83 23
C R C
as usual

LC
10 22.4
94 28.5
R C R

10 32.1
81 1
R R C

144

Apr 22

10 39.1

99 14.3

R C R

10 42.7

100 10.5

C R C

~~A₂₁₋₄₀~~
 A₃₀₋₁₀

11 2.2

88 16.0

R

C

~~A₂₁₋₄₀~~
 A₂₁₋₃₂
A₄₀₋₆₀A₆₁₋₇₂

11 23.7

81 45.6

R C R

10 47.9

97 27.5

R e R

10 55.4

96 15.8

~~C R~~
R e R

also outside

11 27.6

93 19.6

C R C

11 50.8

97 27

R e R

11 54.3

~~11 56.7~~

81 29.7

~~81 40.0~~

R C R

11 59.0

86 13.5

R C R

Am 25-1155 C = 33,6

pm

9 50 4
 + 52 10
 55 3 18.6
 8.3/ 34.5
 51
 41.8
 58 40.00

pm

9 56 43
 + 50 5-
 55 1 57.7
 8.9/ 14.0
 41.8
 21.8
 57 1982

no other stars in field since

45-
 -1
 heavy starless

36 mm Hg

10 23.20
 + 56 33

976 Dross

10 25 23
 + 76 18

B mm Hg

10 54 57
 + 56 59

0 1 37.2
 51.4
 21.1
 57.9
 1 56.90

452 22.6
 40.8
 5.2
 42.2
 47 43.20
 40 56.0

51 13
 15.0
 45.1
 21.0
 6 20.90
 11 11

Du.

$$\begin{array}{r}
 10 \ 3 \ 46 \\
 + 12 \ 6 \\
 \hline
 0 \ 2 \ 472 \\
 85 \ 38 \\
 70 \ 351 \\
 109 \\
 \hline
 1 \ 925
 \end{array}$$

85 ft. station A-1 = position Ref S
 on A+1 A A-1

Whiney

$$\begin{array}{r}
 10 \ 1532 \\
 + 424 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 0 \ 0 \ 45.2 \\
 58.7 \\
 27.4 \\
 \hline
 50 \\
 \hline
 408 \\
 498
 \end{array}$$

$$\begin{array}{r}
 101891 \\
 + 6222 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 40 \ 3 \ 272 \\
 421 \\
 126 \\
 479 \\
 \hline
 43 \ 4745
 \end{array}$$

Apr 27 1885-

n	North	South
21 60.3	58.8	21 23.8 17.8
61.8	56.8	24.0
63.2	58.4	22.2
62.5	59.8	23.3
59.8	59.9	23.8
56.8	3.7	16.1
	58.74	23.22
		58.74
		81.96
		40.98 Setat 41.0

Aug 504
(55?) + 52 10

350 374

75 52.4
19.8
56.7

35 - 56.58

0 + 1 1 -

9 56 43

+ 50 49

15 1 47.6
9.2 4.2
31.3
9.2
17 8.12

Une Sapient.

Aug 27
 Bryan Observing of Polaris
 Catalogue this date

Dec.

9 32 56
 + 55 - 1

Not seen - Dec

W. W. W. W. W.
 9 42 35 + 59 35

30 1 17.2

320
 598

371

31 36.52

Dec
 10 34 6

+ 50 6

70 0 3 351

68

51.2

19.1

570

3

5560

A + A + A
 - 1

Dec

10 16 8

+ 99 44

Fluorine

10 10 9

+ 43 29

351 281

428

58

47.6

36 47.05

Dec

10 16 5

+ 49 44

25 0 03

83

15.3

452

22.5

25 21.28

Pittman A., Nov 5

Shu 27 185-

Shu 810 343

10 24 13
+ 1 5-

0 0 256 0 68
484 253
126 525
472 278
0 4845 0 2918

Shu + 10 349

10 3140 + 813

0 4 41.3 3 5873 289
5.6 213 52.6
300 412 15.2
4.6 208 52.1
5 5.38 4 21.55 3 52.95

Rod 2054

11 0 46
+ 18 16

50 0 224 0 82
41.0 267
66 532
41.6 280
50 42.90 50 2902

J Lev

11 0 59
+ 21 9

55 0 543
9.3
326
14.8
51 1300

J Clovis

11 1335
- 14 9

HR

30.470

DM + 751750

104030
+10011

55	05302	6.3
	125	254
	409	532
	138	261
	<u>1255</u>	<u>27.75</u>

56

57

Bz 1508 T7 ✓

10 1260

+5824

403	154	2248	1558
	359	81	197
	596	778	440
	<u>351</u>	<u>448</u>	<u>191</u>
43	36.45	43	51.38
		42	20.65

Bz 1752

11 2341

+11 45

25 1 168032

40.2 247

37 487

399 241

26 40.15 25 25.18

A₃₀ to 70

DM + 85 18

+89 18

11 3047
+89 37

30 2 26

223

427

342

32 2670

2 22

216

472

226

32 23.40

A₄₀ to 60

on 2nd sheet

Star 7

~~B. Group~~

Duette 743

1152 ✓

~~114311~~

115049

115923

777 27

777 33

35 3 573

4 452

30 2520

422

156

41

500

106

453

337

126

~~257~~ 257

187

60

486

08

1

39

19.22

40 7.25

32 5080

33 218

476 Duro ✓

12 6 48

→ 815

Pr. 6 ✓

12 9 43

103 42

AR.

2 stars

25 0 68

282

561

279

25 29.75

1 48

212

538

26.1

26 27.72

Muzo 1885

Rod. 2407

9 5825 + 1757

150	241	0	77
	447		278
	86		518
	448		276
15	4555	15	2672

Dn + 130 287

10 946 + 13 23

40	8	307	2	536
		586		177
		219		415
		570		170
43		57.80	43	1770

Muzo 1885

Dn + 10 345

10 3140 + 11 3

0	4	469	3	507
		110		157
		336		378
		97		136
		1		
5		10.30	4	14.20

Dn + 10 1750

10 4030

+ 100 11

55	0	503	1	463
		10.0		78
		371		34.2
		10.7		7.1
56		1202	57	8.85

DM + H 60

10440 + H 2

85 3 401

25

252

16

39 2.85

DM + H 340

102413 + H 5

0 1 0 0

0 232

24.3

450

46.3

90

46.1

45.1

1 2918

0 46.08

4 50 590

Br 1508 ✓
 105213
 + H 23

Rod
 2594
 11046 + H 16

48 2 241 1586
 450 188
 82 421
 452 152
 42 45.62 42 19.30

A 70 2 H 1

45-459.7 4547
 216 169
 467 421
 218 180
 50 22.45 50 17.92

Lod 15 70

W30 ✓

W30 Key

11 12 16

+3343

0-Lo

11 15 12

+640

Q.1782

+112341

+1741-

20 2 88

15.3

431

250

22 22.30

20 4 421

547

201

107

25 1.78

20 0 09

216

448

210

20 2208

B Lev. ✓

114311

+1512

Dut 82 743

115049

+9727

Dut +11° 389

1154184

+8129

10 2 250

340

00

47.4

12 41.60

35 4 120

298

573

32.6

39 32.92

35 1 11,0 0567

317 166

539 353

310 15.2

W30 W > 0 36 31.90 36 16.95

DM, 86° 170

11 26 54
+ 86 15 -

DM, 890

11 30 47
+ 89 17

Capri ✓
11 34 38
+ 103 1

3

30 261
250
501
250
32 26.55

✓
5260

51 507
10'6
36'8
9'8
11.98
✓ 7 ✓
✓ 20 ✓
+1

1552 ✓
11 59 20
+ 77 33

476 d loco ✓
12 648
+ 78 15 -
12 943
+ 103 41

30 2 44.9 277
28 441
269 64
310 449
33 440 45.78

50 1 109
282
517
280
51 29.95

250 132
320
586
818
25 33.90

May 2 1855 @ = 360

DM + 13° 257

10 5 46 + 83 23

40 3 57

24.6

43.1

21.6

43 23.75

DM + 10 1240
+ 88 27

35 3 47.0

3.8

23.1

2.1

39 4.00
A
60 6 50

DM + 10 5731

35 0 + 99 16
10 47 42 / 97 28

50 3 40.7 4 34.6

57.2

52.0

19.0

13.6

55.1

49.6

53 58.00

54 52.45

DM + 10 803

10 47 42

+ 97 28

35 3 43.1 4 27.2

58.2

43.8

20.4

5.6

56.3

43.1

38 59.50

39 44.92

$$DM + 81^{\circ} 345$$

$$102346$$

$$+5850$$

$$DM + 81^{\circ} 345$$

$$103140$$

$$+81^{\circ} 03'$$

25	2	300	3	205
		46.0		362
		7.0		581
		447		348
27		46.92	28	3740

10	4520	4	66
	119		266
	299		446
	821		226
15	1048	14	25.10

$$367669 \text{ phin}$$

10	5517
	+5616
50	021
	167
	382
	143
50	17.82

$$DM + 82^{\circ} 325$$

10	1	1
	482	22
40	4	89
		3496
		282
		53
		462
		277
		247
		61
44	2700	44
		8.18

May 2 1850 ✓ $\Delta = 36.0$
 5 Dec ✓
 11 17 59
 121 9
 2 June 1851
 11 12 16
 +33 43

Dec +86° 170
 11 26 54
 +86 15

55 1 144
 26 7
 46 1
 32 8

 56 30.00

20 2 28.4
 41 8
 18
 45.7

 22 44.38

50 0 52.2 431
 8 7 59.2
 28 0 18.2
 6 1 56.3

 51 8.75 50 59.20

En. 1850 ✓
 11 58 57
 +86 13

4 76 2200 ✓
 12 648
 +78 15

186 ✓
 12 943
 103 41

50 2 30.6
 47 6
 6 8
 44 8

 50 20 52 49.45

50 1 13 8
 30 8
 48 4
 27 2

 51 30.05

25 0 16.1 1148
 31 8 342
 56 1 54 8
 30 8 30.0

 25 34.52 26 33.45

2.69 pm ✓ B Lewis ✓
 113438 +103 1
 115312 +1513
 115418 +97 40
 Date + 82 1708

50 528 1510
 11.1' 10.8
 326 322
 6.6 7.1
 51 10.78 52 10.28

50 2312
 4.2
 1.3
 499
 52 45.90

250 586
 140
 360
 129
 25 15.38

R 1672

Date + 78 10

Date + 74 400

1214 21
 88 21

1219 15
 100 39

1230 37
 100 51

1150 580
 156
 34.8
 13.1
 4. 52 45-1538

30 1 136 2 164
 313 349
 527 161
 28.2 313
 31 31.45 32 34.68

103208 240.2
 448 04
 22 182
 407 571
 13 42.88 12 58.98

May 2 $C = 36.0$

4326 *berni* ✓
 $\frac{1253}{11+942}$

$\frac{1253}{11+942}$ 412
 $\frac{1253}{11+942}$ 30
 $\frac{1253}{11+942}$ 20

40 4 348
 574
 130
 45.3

 44 54.62
 52.12

35 1 74
 280
 448
 28.2

 36 25.85

Polaris ✓

12 16 36

+91 18

45	2	492	482	499	522	528
		6.2	6.4	8.6	9.9	11.2
		2570	257	296	308	319
		5.0	5.0	6.0	7.6	8.8
		<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
48		6.85	6.82	8.52	10.12	11.18

Mus B 1855

Dec +75° 228

10 317

+79 40

29 No Camerap

10 12 47

+14 50

30 No Camerap

10 16 58

+13 9

151 228

40.8

59.5

37.7

16 4028

1.

36 No Cerphi

10 55 17

+96 16

Dec +72° 325

11 1 1

+82 22

Dec +76° +170
B Cerium

11 26 59

11 26 57

+86 10

- 22 12

50 0 419

57.4

19.6

55.6

50 5862

40 4 8.2

30.4

47.9

26.2

44 28.18

AR.

Rg 151-U

$\Delta u + 10^0 775$
 $10 28 46$
 $+58 50$

$\Delta u + 80^0 731$
 $10 39 0$
 $+59 16$

$\Delta u + 10^0 703$
 $10 44 42$
 $+97 28$

25-3 41 3 308
 212 443
 436 107
 200 480

 $28 \quad 2222 \quad 28 \quad 4970$

50 4 224 4418
 410 11
 25 221
 39.7 588

 $55 \quad 11.40 \quad 55 \quad 0.95$

35-3 4128 297
 08 452
 235 102
 592 453

 $39 \quad 1.58 \quad 38 \quad 4810$

$\Delta u + 10^0 775$
 $11 24 38$
 56
 $+108 1$
 $+21.9$

$\Delta u + 80^0 731$
 $11 39 55$
 $12 13$
 $+44 25$
 $+33 44$
 $A.R.$

$\Delta u + 10^0 703$
 $11 48 8$
 $13 32$
 $+15 13$
 $-14 \quad 9$

55 1181
 31.8
 512
 37.0

 $56 \quad 34.52$

AR 10 3549
 3.3
 26.0
 17.6

 $14 \quad 10.45$

168

May 3 1885

Dr +86° 170
 11 26 54
 +86 15-

2 Lophini ✓
 11 34 35
 +103 1

2 Mine May ✓
 11 39 56-
 +48 25

50	1	318	251	0	529	50	448	1406	40	0	586
		500	430		109		38	598			127
		100	28		296		249	218			338
		<u>417.6</u>	<u>40.7</u>		<u>8.0</u>		<u>591</u>	<u>558</u>			<u>13.8</u>
51		4985	4290	50	10.35	6	3.15	659.50	40		14.72

4760 2000 ✓
 12 648
 +78 15

12.6 ✓
 12 9 43
 +108 91

12.1672
 12 14 21
 +88 21

50 1 133
 322
 497
28.0
 51 3080

25 0 240
 432
 44
256
 25 4280

45 0 549
 121
 327
180
 46 12.42

4 30 70

✓
L 2
11 43 8
+15 13

✓
DM + 51° 389
11 54 18
+51 29

✓
En 1250
11 58 57
+56 13

50 1 33.8
43.6
4.1
52.2
57 48.42

25 1 503 176 50 2 538 2356
11.6 259 125 530
301 454 314 131
12.8 34.7 86 508
27 9.95 3140 53 11.62 52 5312

30 47.0

DM + 79° 10
12 19 15
+105 39

DM + 11° 400
12 30 37
+80 51

✓
43 76 (Ephemeris)
12 13 11
+94 21

30 2 0.7 2219
184 41.0
402 29
150 37.7
32 1858 32 40.88

10 3 297 2445 40 4304 450 59
51.1 5.7 471 216
77 225 88 430
46.3 26 45.7 196
13 4870 13 3.82 44 4800 45 2252

170

May 3

Dolcis ✓

1316 36

+91 15

45 2 507 583 526 548

80 96 92 126

290 313 307 336

20 86 80 119

48 8.68 1070 1012 13.22

9.0 to 8.0

172

May 9 1855-

25 McAnally

10 12 47
+84 50

30 McAnally

10 16 58
+83 9

Du 83° 630

10 21 30
+86 6

l Lewis

10 43 9
+11 9 31

Du +84° 517

10 53 50
+95 14

Rod. 2594

11 04 6
+88 16

50	0 62.0	0.9
	24.6	191
	44.8	352
	22.8	125
50	24.65	19.25

25 80

DM + 18 131

10 24 0

+ 91 10

33 Lep Tauri

10 35 30

- 1 8

42 Leo Min

10 39 25

+ 31 17

B Pictoris

11 557

- 22 12

S Leo

11 4 56

+ 21 10

S Arcturus

11 12 13

+ 33 44

174

May 9 1885

21782
 112341
 $+5145$

3916 (Camelops)
 112750
 $+9320$

2 Cepheus X-ray
 113438
 $+103174825$

2004528
 84
 282
 61
 21
 7.72

51
 258
 448
 22.1

24.45

451508
 71
 309
 5.2
 469.00

503981350
 588
 269
 561
 5
 5890

400530
 539
 158
 50.3
 65375
 419.28

$Bz1656$
 121326
 $+874$

$Dm+7810$
 121915
 $+10039$

$Scorpi$
 122352
 -1552

025371261
 106
 312
 52
 2
 11.18

434
 3.6

42.4

43.88

Clouds.

Cloudy,

✓
 114312
 +1512
 115418
 +9840

502388
 402
 98
 598
 52 53.88

250 JTD
 108
 34.2
 11.3
 26 12.82

90 to 50 20 to 10
 65 to 100

✓
 115923
 +7733

30243898
 574257
 171450
 567250
 32 5875 2638

✓
 476 Procons
 1142
 12648
 +7810

5011100198
 250366
 472349
 267341
 512848 3632

45038.2
 51.2
 13.6
 54.0
 45 54.25

12.48
 12318
 +988

21923
 123434
 +1416

51927
 124129
 +1110

clouds

454524
 118
 316
 9.6
 50 11.35
 20 to 80

5011780428
 35.3 28
 157 214
 34.6 08
 57 36.35 57 1.95

176

May

B2 Camelops
m.
$$\begin{array}{r} 12\ 45\ 15 \\ + 14\ 3 \end{array}$$

$$\begin{array}{r} 0\ 3\ 41.0 \\ 3'0 \\ 232 \\ 18 \\ \hline 3\ 3.25 \end{array}$$

30 to 60

32 Camelops
m.
$$\begin{array}{r} 12\ 45\ 17 \\ + 14\ 3 \end{array}$$

$$\begin{array}{r} 3\ 40.2 \\ 57.7 \\ 17.2 \\ 55.8 \\ \hline 3\ 57.72 \end{array}$$

DM+78 407

$$\begin{array}{r} 1251\ 1 \\ + 79\ 6 \end{array}$$

$$\begin{array}{r} 553\ 552 \\ 14.5 \\ 34.2 \\ 12.8 \\ \hline 54\ 14.30 \end{array}$$

Rij 2-S

DM+60 36

$$\begin{array}{r} 13\ 8\ 2 \\ + 99\ 44 \end{array}$$
Rolavis ✓
$$\begin{array}{r} 13\ 16\ 36 \\ + 91\ 18 \end{array}$$

$$\begin{array}{r} 20\ 3\ 24.7 \\ 42.2 \\ 35 \\ 80.2 \\ \hline \end{array}$$

23

4275

$$\begin{array}{r} 452\ 542\ 150\ 106 \\ 118\ 118\ 264 \\ 336\ 340\ 482 \\ 120\ 123\ 272 \\ \hline 48\ 1290\ 1328\ 2810 \end{array}$$

43 106 Ephri ✓

12 53 11

+ 194 21

2 Nov + 18° 412

12 58 20

+ 101 30

44 76 Ephri.

13 2 22

+ 1100 56

40 459.0

15.6

386

15.1

45 17.08

2, 510

35 1 5.1

25.0

43.3

23.2

36

24.15

10 0 43.8

1.2

24.2

0.6

11 2.48

178

May 8 10?

h m s
10 21 30

+96 6

Dhr +88 131
10 24 0
+91 10

33 Septantis

10 35 30

-1 8

10 3 190

31.0

556

422

13 3645

Rad. 2954

11 0 46

+88 16

B. Protus ✓

11 5-57

-22 12

J. L. ✓

11 9 56

+21 10

50 0 20.5 0 9.2

41.2 28.8

29 30.9

40.2 28.1

50 41.28 29.25

62 to 3.1

AR

5-5 0 27.8

42.8

51

51.3

5-5 46.75

A

42 Lev ✓

1039 25-

+31 17

45 2 38

191

422

242

47 22.32

4,3 ac

l Lev ✓

10 43 9

+11 9 31

55 0 558

88

301

188

56 13.38

Dm +840517

10350

+95 14

50 1 208 2 18

388

253

388

453

388208

57 40.55 52 2205

Dm +840517 ✓

11 12 13

+33 44

lu 1782

11 23 41

+81 45-

38 76 Canal

11 27 50

+93 20

20 2 194

368

587

412

22 39.00

20 0 474

116

315

89

21 19.85

45-1289

408

126

483

46 4940

76 530

80 May 10

J. McKin

11 59 38

+103 1

Phy 11 31 16

+51 4

Phy 11 32 33

+53 27

51 310

52 7

166

50.0

52.45

A+1

476 Procris

12 6 48

+78 15

Phy 11 34 58

+48 25

B. Lev.

11 43 12

+15 12

40 0 500

6.1

30.1

10.0

41 9.05

50 2 363

48.3

12.1

0.6

52 545.8

Br. 1656

12 13 26

+84 4

B2 48

12 31 8

+98 8

50 1 576 0 118

273 826

467 828

25.0 31.1

57 26.15 32.10

$$\begin{array}{r}
 50 \quad 0 \quad 119 \quad 0 \quad 482 \quad 0 \quad 256 \\
 \hline
 326 \quad 8.7 \quad 418 \\
 528 \quad 302 \quad 67 \\
 3V \quad 7.2 \quad 43.5 \\
 \hline
 1 \quad 8.32 \quad 45.25
 \end{array}$$

55 2 326

50.3

15.0

51.8

57 52.42

✓
 8 June 1923
 11 47 42
 +54 20

~~8 June 1923~~
~~11 54 18~~
~~+54 20~~
~~+97 40~~

✓
 11 52
 11 59 23
 +77 33

45 0 523
 56
 314
 106

46 10.48

250 538
 118
 371
 120

26 13.68

30 2 418 2 217
 11
 220
 589

33 0.95 32 41.62

11 1923
 12 37 34
 +54 16

11 1923
 12 41 29
 +54 15

32 16 1923
 12 45 15
 +54 3

3151
 340
 580
 349
 3575

45 4 16
 386
 587
 352
 49 37.80

50 0 371 0 158
 583 377
 180 570
 567 353
 50 57.52 50 35.82

0 3 388
 01
 222
 592
 4 0.08

✓
~~48~~ 32 Camelopardis

12 45 17

+84 3

3 33 9

56.1

16.3

54.9

$$\begin{array}{r} 3 \\ 30 \text{ to } 70 \\ \hline \end{array}$$

5530

Polaris

13 16 36

+91 18 ✓

✓
Dhr +79° 40'

12 51 1

+79 6

55 310.7

328

524

32.2

58 3202

✓
43 No Camelopardis

12 53 11

+94 21

45 0 20.9 20.5

32.8 310

524 0.2

32.2 37.3

45 3875

A 1,10 A -1

45 2 53.2 54.7 2.4

11.3 14.2 20.8

34.6 38.1 44.1

11.7 14.3 20.3

$$\begin{array}{r} 48 \quad 1270 \quad 1532 \quad 21.90 \\ \hline \end{array}$$

~~2m + 16° HJ~~
~~12 58 15~~
~~+ 86.29~~

44 76 60 phm
 13 2 22
 + 100 56

2m + 10° 36
 13 8 2
 + 99 44

10
 ,

10 0 4 2.3
 10
 26.0
 0.7

 11 2.50

20 3 16.7 4 44
 35.6 24.3
 58.7 48.2
 34.4 22.6

 23 36.35 24 24.88

84

May 11

Sun + 40 5-17

50 10 53 52 + 5 514

2 7.8 4

234

471

24.7

52 25.75

B Crotus ✓

11 5-57

-22 12

Clouds

5 Loo ✓

11 7 56

+2110

Cloudy

A₄₁ & C to 10

Jesse Mill ✓

11 34 38

+103 1

5 1 409

58.8

232

57.7

4 0.15

Morse May ✓

11 39

40 0 49.1

2.3

248

6.5

41 568

P. Lee ✓

11 4 38.8

+1110

L

A_{30 to 10} A-1

St. Anne Mary ✓

11 12 13
+33 44

20 1 317
448
53
487
21 47.55

Dr

11 3116
+514

0 4 320
465
97
50.0

4960
The only star
in field sum

Dr

11 32 33
+63 27

A very fl-star
sum
to opt to this.

st A-1

Dr St. Anne Mary ✓
11 54 1
11 47 42
+54 20

45-0 55.2 11
93
317
12.0

46 120.5

Dr.

11 54 1
+49 67

15-1 48.0
92 18
96 25.0
43

17 4.52

9.2 or A+1

9.6 or A₁ 23 5.2 or S

May 11

4215241523

+77 33

40 1 172 0472

33.8

4.0

52.8

22.7

32.1

2.0

41 3398 41 398

476 D2000

12648

+7815-

50 1 69

25.1

43.8

2.3

51 1952
24.70?23.0
Cepheus May 10

Br 6

12983

+103 41

25 0 576 1147

15.3

85.4

35.0

0.2

13.3

35.1

26 16.30 26 37.90

Br 274

124410

+96 55

S. W. 8. 5

124505

+4 1

40 1 33

15.7

42.3

19.0

41 2082

Dm + 8 24

124958

+100 6

0 1 323

45.8

13.4

49.6

1 51.28

43 76 Cep

1253 11

+94 21

40 4 570

13.0

35.8

12.8

45 14.65

~~DM + 60° 40.2~~ 1245
 123288 12318
~~+89 51~~ +588

55 2 35.2
 54.2
 189
 53.1

 57 56.85

+86 512
~~DM + 60° 40.2~~
 120484
~~+89 51~~
 +86 21

40 40.8 3 522
 191 96
 398 307
 17.2 7.8

 44 19.48
 44 1008

DM 89° 22 42006

125639 13647
 +89 1 +88 17

131636
 +91 1

5 2 88205.8
 258 235
 46.8 435
 24.8 220

 7 26.55 7 23.70
 52 to 70

50 0 228 0184
 39.5 34.3
 0.1 549
 38.7 33.5

 504025 3528

4 to 60
 48

45 2526 549 517
 9.2 11.3 12.4
 326 34.2 35.3
 9.3 11.6 12.7

 48 10.92 1300 1428

70 to -

Aug 16 1885

DM 11 3116
+51 4

DM 11 3225
+53 27

11 3438
+103 1

5- 1 122 2 102
86 54
218 203
102 84
6 13.20 1152

✓
Br 1152
11 5923
+7733

✓
4% Dried
12 6 48
+78 15

✓
Brub
12 9 43
+103 41

30 3477 08
43.6 55.6
526 47
45.2 58.2
33 47.27 59.82

50 1385
240
332
36.5
51 33.12

25 0 407 1386
368 354
499 485
383 361
25 41.42 26 39.65

X Henry

✓

B Leo

✓ Henry

11 35 58

11 40 12

11 44 25

11 45 13

11 45 45

40 0 557

50 2 353

11 45 20

462

238

45 1 171

589

358

5.2

540

376

222

46 53.55

52 33.12

157

46 1590

A 132e

A 132e

Dus 102

19 23

12 279

✓ Henry

12 3246

12 384

12 4410

12951

184 16

18655

✓ Henry

15 0 102

45 4 072

10 1 324

73

307

263

161

433?

411

8.7

36.1

30.4

15 10.57

49 38.42

11 32.55

May 16

Dm + 89 21

$$\begin{array}{r} 124518 \\ + 8922 \\ \hline \end{array}$$

Pm 765

$$\begin{array}{r} 125156 \\ + 9135 \\ \hline \end{array}$$

43 76 Cephei

$$\begin{array}{r} 125311 \\ + 9421 \\ \hline \end{array}$$

45 2 59.6

6.1

7.0

58.8

48

288

5 52 60

30 1 15.4

11.2

23.1

13.7

31

1580

A 50 to 10

Balans

13 1636

+ 9118

y bing in

13 2845

- 0 1

17 71 Pann

13 2835

75 46

45 3 248 286 320

216 256 288

331 368 400

23.8 276 310

$$\begin{array}{r} 48 \quad 2582 \quad 2965 \quad 3295 \\ \hline \end{array}$$

4 560

AR

1995phase-proj-1950

Dr + 16' 187
12 58 55
+ 86 29

g 2006
Dr
13 647
+ 88 17

Dr + 4 416
13 1123
+ 87 3

35 1 212
16.3
270
18.0
36 2062

1 17
57.4
78
183
36 1.12

50 0
50

370
339
441
353
3752
4, 45, 4

0 280
249
359
270
2895

0 01121
108
190
10.8
1 1317

50 590

~~Corpi~~
~~12 335~~
~~155~~

~~Pan~~
~~12 381~~
~~44 59~~

July 17

B Crater

11 557

-22 11

S Leo

11 556

+21 10

S Ursa Major

11 12 13

+33 43

A.R.

Thu

11 54 W

+49 51

42 1852

11 59 23

+77 33

426 Drogo

12 6 11

~~158 15~~ ✓

20 Comm

12 23 56 +21 32

30 3 493

42 7

520

516

33 4890

o Leo
11 15 9
+6 40

Fl. eph.
11 34 38
+103 1

X Linc. by
11 38 55
+48 25

~~X 12 6~~
12 8 43
+103 41
Borne
12 28 21
-22 46

Be 1672
12 14 21
+58 21

Stu + 58 402
12 32 46
+75 51

45	0	69	102.5	534	450	59
	1	40	596	511	511	3.3
		13.3	102	592	522	10.5
		50	21	511		36
46		730	360	53.70		5.82

May 17

21927
12 41 29
+ 11 15

May 21
12 48 18
+ 89 22

May 22
12 56 39
+ 11 1

50 1 474 0 587
46.4 588
57.2 66
46.8 583
51 4895 660

45-2 584
566
66
57.2
47 59.70

5 2 362 361 190
81.3 343 160
44.1 44.0 353
36.1 350 170
7 3768 3735 2192

42 552

50 590

✓
y briguis
13 2847
- 0 1

✓
1776 (Colum)
13253
+ 37 46

AIR.

153 457
345
58.2
450
18 46.80

Mu + 416
13 11 23
+ 11 3

Palais ✓
13 + 18 15
+ 16 35
+ 15 21
+ 9 18

~~Mu + 422~~
~~13 21 30~~
~~+ 17 14~~

0	2	0.6	1	178	45-8	26.9	28.9	32.0	35.7	37.8
		59.6		171		23.3	26.1	29.2	32.0	35.0
		6.7		241		33.2	36.2	39.9	42.6	45.3
		59.6		16.7		25.6	27.8	31.2	33.7	37.2
	2	1.62		18.92	48	27.25	29.75	33.15	36.85	38.82

62 5 3,

196

May 21 1885

✓
 Plumbkey
 114747
 +5420

✓
 Plu
 11 54 1
 +49 51

✓
 O Binyus
 11 55 21
 +9 22

45 1 99
 27
 184
 101
 46 1027

15 1 20.8
 94) 161
 336
 230
 16 2412

40 3 140 135
 23 21
 177 18.2
 15.2 17.2
 43 1210 1275

A-1

✓
 Plu
 1218 52
 +49 49

✓
 Plu
 1228 17
 +41 59

✓
 Plu Plu
 860 182 1247 53
 123434 +54 17
 +86 21

15 3450
 93) 388
 1248
 441

40 4 187 910.8
 163 53
 311 226
 180 91
 50 2 36
 85) 558
 116
 18

A-1

Du
 12547
 $+5322$

Du
 121217
 $+5120$

Du
 121416
 $+502$

Du
 121644
 $+5044$

$89) 45292$
 $\quad 10$
 $\quad 158$
 $\quad \underline{71}$

50072
 $90) 09$
 $\quad 150$
 $\quad \underline{67}$

51160
 $54) 50$
 $\quad 258$
 $\quad \underline{160}$

$87) 204313$
 $\quad 250$
 $\quad 418$
 $\quad \underline{316}$

$A_+ A_-$

A_+

A_+

$A_-?$

Du

125413
 $+5454$

Du

13126
 $+5241$

Polaris

1257 1258 136 137 1510

452552 4533029
 554 553 556

109 161 148
 592 31 52

2555 2605
 2447 483.88 48512

48 1.18

42 to 30

104421
 $84) 357$
 $\quad 514$
 $\quad \underline{422}$

203345
 $88) 281$
 $\quad 438$
 $\quad \underline{350}$

88 on A_+ A_+ A_+
 A_+ A_+ A_+

y
Mar 21

DM

$$\begin{array}{r} 13 \cancel{126} \quad 13 \quad 12 \quad 22 \\ + 5241 \quad + 52 \quad 1 \end{array}$$

DM

$$\begin{array}{r} 13 \quad 19 \quad 30 \\ + 51 \quad 48 \end{array}$$

DM

$$\begin{array}{r} 13 \quad 25 \quad 13 \\ + 52 \quad 12 \end{array}$$

0 4 11.4
 8.5) 5.0
 20.6
 12.1

8.4) 20 0 56.3
 8.5) 48.8
 6.5
 56.1

55 1 28.7
 8.8) 19.1
 35.7
 26.3

Port A-1

no 5 for 2nd #

A

no 5.4 in final
sum

r Boots

$$\begin{array}{r} 13 \quad 41 \quad 48 \\ + 15 \quad 1 \end{array}$$

r Humphrey

$$\begin{array}{r} 13 \quad 42 \quad 59 \\ + 49 \quad 12 \end{array}$$

r Boots

$$\begin{array}{r} 13 \quad 49 \\ + 14 \quad 58 \end{array}$$

AR

10 1 54.7
 48.8
 6.8
 55.7
 22 6.0
 11 56.50

5-1 53.6
 42.5
 58.7
 55.3
 21 0.9
 6 52.72

Du
 132736
 $+5240$

$25 \ 3 \ 7.9$
 0.7
 $8.4) \ 17.6$
 7.7

A+1

Du
 132840
 $+54 \ 0$

$5 \ 2 \ 7.7$
 0.6
 $8.6) \ 17.3$
 6.9

A

\checkmark
 17 H Cam
 132835
 $+8746$

May 26 1885

DM

12 16 44

50 44

20 4 27.8

26.2

45.9

33.8

(8.7)

A+1

DM

12 47 53

+54 17

50 1 42.2

38.2

57.2

45.7

F.A.A.

12 Can. Reen

12 50 20

+38 58

5-4 10.1

6.9

24.2

14.2

55.4

9 13.60



DM

13 12 14

+50 26

40 3 55.3

11.8

$$\begin{array}{r|l} 22 & \\ \hline 13 & 12 \quad 22 \\ +50 & 26 \\ \hline \end{array}$$

DM

13 15 30

51 4.5

20 1 23.4

88/ 18.4

90/ 38.7

25.7

1st time a to 50 to 50 Rej ✓
 2nd A-1 & 5 full ✓

DM
12 54 5-3
+54 54

DM 750 29
12 58 56
100 37

~~DM 750 29~~ ✓
Rolais

5-4 400
38.0
570
449

30 0 573
560
171
585

45 2 539 557 572
53.2 54.8 56.4
131 144 152
580 589 590

2382 2438 2468
47 59.55 60.95 61.70

A-1

DM
13 25 13
+52 12

DM
13 28 1
+50 8

DM 750 29 ✓
13 46 1
+49 53

55 109.9
43
91) 236
12.7

0 0 197
143
9.0 349
220

50 2 43.4
40.4
0.9
47.8

19 2.5
52 48.12

A-1 Pr. II

A-1

Ry 26 ✓
 n Booris ✓
 134913
 +1159

5.02 - 4.6

56.0

14.4

9.3

24.3

7 6.08

11 Booris ✓
 135558
 +12759

~~Cloudy~~

x 2 2000 ✓
 14116
 +6456

10-00-28.1

25.1

43.3

28.8

125.3

10 31.32

May 28 1895

Sh + 75024

1249.58 + 100 6

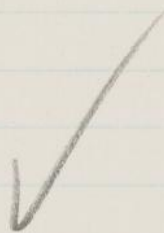
0 - 1 - 44.7
 41.9
 2.0
45.2

Sh Br 265

~~245~~
 1251.56
 + 91 35

30 - 01 - 7.4
 3.2
 22.4
 7.6

at 5 zero to 1 zero
 the long break after 2nd wire



Polam

+ 91° 18'

lv. 2007

+ 85° 21'

13-16-36

13-19-18

at 7 zero to 1 zero
 the long break after 2nd wire

45-03-6.8	6.7	8.0
4.6	4.6	6.9
23.1	23.1	25.8
7.6	7.8	10.1
<u>42.1</u>	<u>42.2</u>	<u>50.8</u>
48	10.52	12.55
		12.70

40-04-49.3
 48.2
 5.8
 50.2

at 6 sub zero to 4 zero.

at 3 zero to 7 zero

~~DM + 79° 29~~
~~12 58 13~~
~~+ 100 34~~

✓
 43 Comae + ~~13 6 30~~
 + 28-20

DM 81° 416
~~+ 81° 03~~

13-6-30

13-11-23

35-3-8.6

81° 03

1.2

18.6

11.4

10-1-45.9

46.3

38 39.8
 9.95

2.1
 47.2

2

DM + 79° 422
 + 79° 14
 13-25-30

DM + 88° 77
 + 88° 08
 13-28-57

50-02-18.3

17.4

33.3

19.1

53-02-52.9 47.2

50.6 45.6

7.7 3.2

53.2 48.2

43 zeroth 7 zero

06 -

✓ May 28th ✓13 T Brooklyn
+18°-02

13-41-48

AR.

Hussey
+49°-53

13-43-00

10-02-20.6

15.8

35.2

21.6

92.6

12 23.15

A + A sub minus 1

η Brooklyn
+18°-58'

13-49-12

5-01-52.6

42.7

00.2

55.2

21 0.7

6 52.68

Jan 2071
+81°-20'

13-52-42

56.1

~~56.1~~

56-01-56.5

45-0

12.7

58.2

11 Brooklyn ✓
+27°-56'

13-53-53

5-3-20.8

14.7

31.8

24.6

91.9

8 22.98

A + A sub - 1

Sun
+91°-25'

14-00-00

14-04-13.8

13.0

32.2

17.8

14-24.0

23.2

21.5

23.6

9 zero to 5 zero

✓ — June 1st 1885 —

24 Comae Ber. +19° 01'

0-4 55.3

46.3

1.0

58.6

221.2

4 55.30

DM 83° 20

12 30 58

+96 1

5 0 32.2

27.2

44.2

30.1

DM 86° 14

12 58 55

+86 29

351 25.0 504

22.2 405

36.6 22

23.8 43

— Collimation —

12^h 35^m

~~South~~

North

South

21-77.0

76.8

76.6

76.1

75.8

76.26

20-99.0

21-02.5

20-99.1

1.9

0.8

3.3

21-00.66

76.26

76.92

12^h 40^m

38.46

Temperature

54.5

Bar.

29.67

att. thn.

(64.0)

DM

13 1 26

+52 41

✓
43 Comae

13 6 30

+28 27

35-3-13.8

63.2

21.3

17.0

58.4

38 14.60

Jan, 1885

DM

Polaris

DM + 79° 422

~~13 12 22~~
~~13 30 + 52.1~~

5-26
 2968

~~61.2~~
 61.2

45-3 3.0 3.5

1.6 2.4
 17.7 18.8

3.6 9.7
 48 25.9 29.8
 6.48 7.45

6, 532

132530

~~779 19~~

DM + 75° 431

13 509

~~779 34~~

h426

13 5449

~~799 5~~

DM 75° 63

13 5900

~~100 51~~

30 1 556
 58.0
 11.1
 59.8

50 1 20.8
 17.3
 33.5
 19.7

30 0 23.2
 20.3
 37.3
 21.6

~~2nd~~ *Prigun*

13 2850

* 0 0

June 61

13 4120

+ 88 36

254 351

328

501

36.4

2063

13 4540

+ 83 20

45 113.6

124

254

13.8

d Protes ✓

14505 + 2538

4 June 61 d Protes ✓

14 919

+ 78 6

4 12 1

+ 46 37

25 2 372

301

446

40.6

1525

27 3812

0 1 1680 25.9

14.8 337

274 472

158 346

748 141.4

1 18.70 0 35.35

37.85

25 2 59.1

536

87

596

241.0

28 60.25

A 45

June 1 H5

$$\begin{array}{r} \text{km} \\ 1420 \end{array}$$

O Boles ✓

14 21 17

+ 52 23

522

2970

522

40 3 143

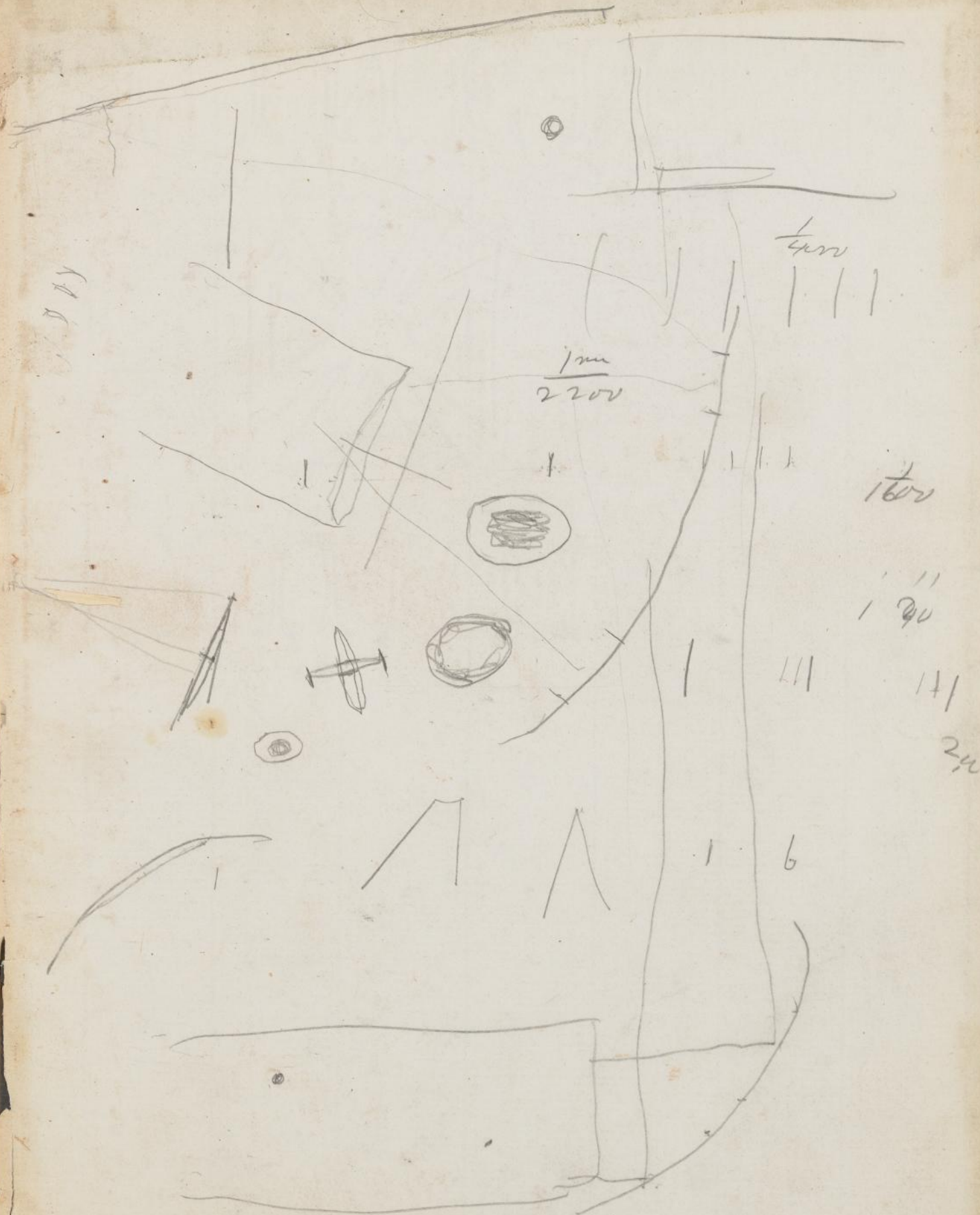
9.1

247

14.8

 62.9

43 15.72



1885pbae, no. 1, 1159.