

f12:1944

8 49.1
8 54 17.7

f12 12
+11 50.14

260

M 330

10.59 1.51
9.54 55

9.9

046 W
046 S

M12

Inc C-AC -0.011 -0.327

H1185

11.0 MS +11.8

-12

-14

-327

-011 -327
+011 -328 S 046

0.85

-13.1

-043 -332 W 046

~~0.85~~

464 W
464 S

1597
326
-487 S
-042

-014 329

-043

332 W
327

FM

M

8.000
11.850
-12.000
-327.000
0.850
15
-13.100
-0.649
0.353
0.674
-510.532
-16.377
-0.047
0.865
-0.499
1338.793
-13.269
0.759
0.356
0.545
-593.757
-15.925

✓ 151

✓ 164

✓ 160

✓ 075
3800

+00173.6 -01353.2
 +0014 -007
 -37 12. 4.7 F5 +11.78
 +2.2715 (19)

79940 9 13.7
 1.42 + 48 ^{FD} _{Column} F3D - F

12787
 6046 44929 1510.5 - 37 12 14.23 15093

$$\begin{array}{r} -067 \\ \hline .862 \end{array}$$

$$\begin{array}{r} 9646 \\ -2447 \\ \hline 1399 \end{array}$$

$$\begin{array}{r} 1394 \\ -9905 \\ \hline 13.70 \end{array}$$

44.887
 + 14

$$\begin{array}{r} 901 \\ \hline 916 \end{array}$$
 37.7

$$\begin{array}{r} 14.21 \\ + 13 \\ \hline 14.08 \end{array}$$

$$\begin{array}{r} 13.97 \\ - .27 \\ \hline 13.70 \end{array}$$

$$\begin{array}{r} 4631 \\ 48.2 \\ \hline 38.9 \end{array}$$

~~44.887~~
~~901~~
~~916~~

$$\begin{array}{r} 916 \\ + 0.54 \\ \hline 912 \end{array}$$

$$\begin{array}{r} 912 \\ - 016 \\ \hline 896 \end{array}$$

0143 0140

44.923
 + 9
 13.67 1956.95

931

$$\begin{array}{r} 13.86 \\ - 1.19 \\ \hline 12.67 \end{array}$$

-8:2689

9 21.7
9 26 21.5

-8 38

268

IncE-AC to:043 -055

MD

10.8 MD +9.4

7528 2241
L59L -9697

+70° 4336
+70° 4337
10.56 1.50 B¹
11.22 1.52
9.41 1.02
9.95 1.13

9 30.1
9 30.6
9 38 30.4
9 38 60.0
9 70 42
9 70 15.26
9 16.22
+5.4
+5.0
+5.4

550 *

Green. Robt. = 663 - 313
- 670 - 307
- 664 - 310
11.4: 112 + 9.1
11.7: 112 + 10.5
5 to 0.82

9.11 8.29
9.10 8.10
9.10 8.10
* Another value is the mean for the 2 components.

9.5
+70.7
-20.15
-310
10.2
+5.5
9.44 17
9.40 17
3.27 17
9.14 16

9.500
76.700
-2015.000
-310.000
-0.200
9¹²
5.500

-0.733
-0.291
0.614
2742.792
28.394

0.057
0.874
0.483
-1464.891
-10.704

0.678
-0.389
0.624
-1567.044
-10.860

0.122
-0.25

+2.78

-10.4

-10.5

9 38.5 total 26 1000 - 1152 W(3)

CC540
W6241
Y2298
M20085
7897-9992
6730-0544

DMP
(51)

10.6
145 254

7492
7339
-9984
-9557

642-17
Meyers
361

-77
-635
-639

7492
7339
-9984
-9557

10.6
145 254

7492
7339
-9984
-9557

-77
-635
-639

7492
7339
-9984
-9557

642-17
Meyers
361

7492
7339
-9984
-9557

-77
-635
-639

7492
7339
-9984
-9557

+42 -18 -17 .05

-621 -154 h
-634 -152 B
-625 -153

-81 -04
-77 -05
-76 -09
-78 -050

+59 -23 -29 .060

~~+53 -20 -26 .04~~

45M(4)
[116 555]
220(110)

0.25

3.15
203
17.1

73110-9998
6823-16410

1638
-147
-14910
-14910

-150
-150
-150

15.5

6823-16410

147
-14910
-14910

-150
-150
-150

15.5

0.25

15.5

15.5

748-854
4855-854

1135

750

+14° 226-133

9 33.4 +13 54
9 38 34.1 +13 28.12

551

Praxis

~~Ci. 20.540 - .77 - .05~~

W

10.6 Mo +9.1

+0° 073

-021 194

9.21 Praxis
Lendert

Blue-M

9482-9984 } 13102
1884

6635-0576

R.A. : 9.650
DEC. : 13.400
PM. R.A. : -656.000
PM. DEC. : -150.000
DISTANCE : 0.250
MODULUS : 11
RAD. VEL. : 11.300

q1 (U) : -0.751
q2 (U) : 0.366
q3 (U) : 0.549
dU : 2012.356
U : 28.781

q1 (V) : 0.083
q2 (V) : 0.878
q3 (V) : -0.472
dV : -876.355
V : -15.163

q1 (W) : 0.655
q2 (W) : 0.309
q3 (W) : 0.690
dW : % -2199.401
W : -16.879

938

123

84367

113871

134256L

Grant

km=0

9 42.0 -27 32 F7

429 +50 +365

428 +51 +336

428 +505 +34(9)

2/8 225 / 83.22 22714 (222.5)

-327 . 222 . 227 22714 (222.5)

.318 . 226 . 225 2201

2691

[m] 253 246 .33

[L] 224 221

245 210

148

240 -39

3.20

118.5 -20.3 +6.1

221 400

363

0.05

1264 +36 -31

+44 -14.8 +3

+3 0 -0

+24.0a

F-124

-00373

+0295
+0068

-20

947

-0037 -109 +028

(-044)

-757 632 166
092 355 -930
647 609 327

+1758 +0839
-0214 +0471
-1503 +0914

+2596
+0257
-0589

+4.0
-22.3
+7.8

333 506

84367 9 72.0 -27.32 dF7 72402

EAuf

AN3771

clouded
Am=0.00

q 326

11

4.78

+0.5D +1.72

-052 +0326

-046 +032N

-050 +030F

-050 +031

84367

13475
6265

-6035 +032 N3D

-0039 +030 ± 2.26 - 7130

10471033

+0248

F1V4

866B

884H

058B

10373

+0376

W3

5158

1466

+0083

-10316

10374

+0350

0134

M

0073

5.48

-0472 +0244

F1V

2

-0494

-0473 +035.5

3.28

0565

0062

1044

8541 8446

0073 0070

0445 5.74

$$566.824 - 462.887 - 0.50 + 0.01 + 24.0 - 0.14 - 11 + 12.8$$

$$0.28 \ 008 \ 04 \ 012 - 0.76 \ 23.2 + 21.3 + 18 + 12$$

$$-10 + 35 + 22 \quad 01$$

$$-9 + 41 + 5 \quad 008$$

$$\boxed{+38 - 19 + 3}$$

$$-17 + 16 - 9 \quad 055$$

$$\boxed{+9 - 21 + 8}$$

3871

$-0473 + 0344$

9 4110

-27 32

-0034 726

+032 722

+0306

58.256

84

23.34 62

+0350

14.2

240

+031

418

-0034

24.74

+0385

58467

18.44

22.64

-06345 +0313

74

2292

+0:

-004100 +0323

-0532

$-050 + 031$

58297

(3844)

23.95

8541

-8846

298

23.59

+237

5.4
0024
664

58164

(49.9)

22.56

1.7

14.2
011

147

(4044)

2507

39168

8.8

31.520

(4044)

39168

58.300

3/303.11 296

44.51

83.463

103.97

R.A. : 9.700
DEC. : -27.500
PM. R.A. : -56.000
PM. DEC. : 36.000
DISTANCE : 5.650
MODULUS : 135
RAD. VEL. : 24.000

q1 (U) : -0.757
q2 (U) : 0.632
q3 (U) : 0.166
dU : 286.072
U : 42.580

q1 (V) : 0.092
q2 (V) : 0.355
q3 (V) : -0.930
dV : 38.934
V : -17.074

q1 (W) : 0.647
q2 (W) : 0.689
q3 (W) : 0.327
dW : -34.669
W : 3.173

-2° 3000

9

45.9

50.7 42.0

-3 0

-3 26.83

560

M372

48

24

72

V-R

B-I V-1

10.55

1025

1240 227

McC-HC - .085 - .455

10.4: MO + 9.8

+28° 29' 48

9 52.1
9 57 32.5
+27 29.70

+27 57

561

37812

McC-AC +.004 +.104

NO

10.9: Mo +9.2

578

10. 17

-903063

f.27 - .28 by km

L1113-55

10

33.5

+05 28

12.2 dm4e

.0654k
073 mb

-650 +162 G

MC -646

Log -636 +089 +2163w

-649 +137. 7h (R)

Support

-648 +100

OK 8820 - 9959 6479 6400
4712 0984 -069 0 -02.93

-4/10 +41 4mm 6515
=0506

+31
0770
0.57

11.15 +1.17
5.90
0.67
9.37

-636 +089
-638 +140
-639 +187
0764
0.18
0756
0.60

-640 +120

C₀ = 2215

11.15 +1.19
998
57
9.51

L1113-55

10 335 405 23 dmye r21e

L622

G51k(17)

073M

-L38 140

-L46

8926 - 9964 } L470

9712 - 6784 } 0400

4 2512.0

-1503019

10 43.5 -15 50

96
1124
564
20

LFTT34

1102+140+0.55' @.041 0.20 #65 -41-65

10.04+0.725 2,2 7 +445 #55 -26-55

+05p -82p +.57p

B(0-1) +02
P(m-3) +.2u

11/20

-184 - .60

-848	528	048	17.3559	-1.5016	+5.8943	+65
268	505	820	-2.3374	1.4362	-2.7736	-41
457	683	570	-3.5858	-1.5424	-5.9282	-77

W to 733

10 48.3 +07 05

SB(34)
119 dms +401

1/16/28/24

W to 358

+14.8
-23.7
+16.0
—

9.82
14.57
8.170
8.87

-836
-813/
-0.75
-18

-84051 -81452 ✓

-815 -512
—
-830 -813

R.A.	:	10.800
DEC.	:	7.100
PM. R.A.	:	-836.000
PM. DEC.	:	-813.000
DISTANCE	:	-0.750
MODULUS	:	7
RAD. VEL.	:	-1.800
q1 (U)	:	-0.851
q2 (U)	:	0.454
q3 (U)	:	0.264
DU	:	1594.369
U	:	10.812
q1 (V)	:	0.276
q2 (V)	:	0.814
q3 (V)	:	-0.511
DV	:	%-4222.30
V	:	-28.972
q1 (M)	:	0.447
q2 (M)	:	0.362
q3 (M)	:	0.818
MP	:	%-3153.25
M	:	-23.796

991-
1833

3244 302

1211 H13

-72

1347 + 510

42

127

811 410

9526

11 00.0 122 14

10102-054

Monday

14.2

118
106

267 190

4152-048

034

141-054

120

44

0223

14.2

522

8172

5

8170

5717

184 147

033

03

28 31 723 20
[Signature]

551-6604

174-153

79

5100
7220
4534
8911
4557
7873
1954
-9557
110
0824

R.A. : 11.000
 DEC. : 22.250
 PM. R.A. : 170.000
 PM. DEC. : -45.000
 DISTANCE : 0.230
 MODULUS : 11
 RAD. VEL. : -14.200

q1 (U) : -0.860
 q2 (U) : 0.387
 q3 (U) : 0.332
 dU : -724.098
 U : -12.768

q1 (V) : 0.307
 q2 (V) : 0.913
 q3 (V) : -0.266
 dV : 34.460
 V : 4.167

q1 (W) : 0.407
 q2 (W) : 0.127
 q3 (W) : 0.905
 dW : 276.073
 W : -9.778

TIME

ST

Observer:

-14° 32' 77"	11"	4.2	-14° 11"	602
y 2604	11	8.9	41.96	

WU 874
 140 97233
 (4M(6)
 51Y(8)
 54C(6)
 37W(10)

-1283w
 dmd

Yale Zone +.719 -.583
 -y -c

9.2 Mop +8.3
 +0.053

+696 -558 VR
 7.1
 7.1

+0.705 -0.594
 -7.0
 1.05

602.000*

11.000*

8.900*

-14.000*

-42.000*

0.205*

-0.594*

1.050*

16.218

-7.000

-4.302

0.001

-69.774

-0.510

-0.750

-3.017

-0.573

0.661

-13.923

L02

11

08.4

-14

42

-1403297

9.03 +1.17 +1.08 (2)

+0.545 (2)

=22257

-7 50.2

-fare

97334

11

09.8

+86 OK

-3218
-24

-37

81917

494

-0.202-7.55

Monday

-302
753

1410

-3

8.0

-242-7.55

212
641 608 406

444

9508 28148
1964 278
2888
-0158

7.5 267
955 267

1440

-52

R.A. : 11.400
DEC. : 36.100
R.A. : -303.000
DEC. : -155.000
DISTANCE : 1.400
MODULUS : 19
VEL. : -3.000

1 (U) : -0.864
2 (U) : 0.309
3 (U) : 0.397
dU : 775.914
U : 13.594

1 (V) : 0.323
2 (V) : 0.946
3 (V) : -0.033
dV : % -1069.597
V : -20.281

1 (W) : 0.386
2 (W) : -0.099
3 (W) : 0.917
dW : -374.634
W : -9.890

-1703336/7 11 12.8 -17 51 10.0 dm1 +5c

3 double SW

690213

2011 10.4 dm2 +1TC50
59(10)

72418

116 -80 cm

M48 5750

+184
-725

1.7
+7.0

M47
C57

+177±4
+177±3
+176±3

-733±2
-737±2 CR

0.365
0.686
0.629
-2079.607
-41.091

0.338
0.532
-0.776
-1566.253
-39.699

-0.868
0.496
-0.038
-2467.162
-54.241

11.200
512.850
189.000
-735.000
1.700
22
7.000

L-7784 11 14.2 -57 17

000416)
78 4116)
65-617)

071(31)

92.10

11.66 +1.44 +0.42 = 074665 +161-47 0
10.33 +1.10 272 31 +885 -035pm 44 +06 p

9.95
1.43
8.52
8.65

7.89

-2.51 +1.46

869	251	-349	+10.3388	+1.5971	+11.9359	+161
346	-073	-936	-4.1165	-3322	-4.4487	-47
354	933	058	-4.2117	+2455	+0338	0

L Jus

11

21.3

+10

48

FEY

-10.3

a

85.1

FE

-10.3

H84399

3.83

+0.41

+0.07

FE

+169

-0816c

W6456

3.54

+0.40

+0.07

N

+150

-070N3D

A058148

4.133

+0.558

W3 50

+164

-079 F1C3

$\Delta m = 2.83$

+01149

-0558

W3 50

+169

-078 2

L16A(120)

TRK

178-052

7287

7276

-1901

-4861

$\rho = 1.51$

$e = 0.57$

$L = 4.132$

$S2 = 57.5$

$a = 1.55$

7217 - 4522 7197 - 4443

168
~~556-986~~ 197 582 +174-077 -10.3 -014-1.9 -34.0 ✓

-029 002 -172 014 -20.4 -80.5 -10.1 +10.0 -1.7 07

+7.1 -13.2 -7.0

$\boxed{-14.3 + 4.0 - 7.3}$

06

+6.6 -15.1 -7.9

$\boxed{-16.4 + 4.1 - 6.9}$

+4.9 -21.8 -10.9

04 ✓

$\boxed{+23.9 + 4.0 - 5.7}$

99028

11

213 +10 48

F=2#

8/17

HRC4359

3.54 + 41 + 7 J

GC15652

$K_{911} = 2.85$

801 186 698

78(L) 100

VR P=180°

.267.172 .606 @ 50C

2.686 @ 1C +

3.18
1.13
2.05

200+

[m] 2204P

1.50 -22.9 + 4.7 - 4.9

2
+01185
-074
-4 ± 10

[m] 553 III

-885 + 21 + 178

+01187
544
1981
1.518

III

+10749

17.67

+235 (16)

+107-870

-103

ADS 814T 11 21.3 +10 4T -10.3a

99028

.0421

2.5

15652
6956

78
+0122 -070 N30

+164 -081 G-C

+0115 209 -078 ±1.0

+180 -070 N30

+01198 -0889 W850

+166 -079 P13
+175 -077

+01207

177

183

179-052

-52

175

-70.3

R.A. : 11.350
DEC. : 10.800
PM. R.A. : 182.000
PM. DEC. : -52.000
DISTANCE : 1.750
MODULUS : 22
RAD. VEL. : -10.300

q1 (U) : -0.871
q2 (U) : 0.460
q3 (U) : 0.171
dU : -851.802
U : -20.830

q1 (V) : 0.360
q2 (V) : 0.837
q3 (V) : -0.412
dV : 99.169
V : 6.468

q1 (W) : 0.333
q2 (W) : 0.298
q3 (W) : 0.895
dW : 208.432
W : -4.550

+5° 25' 29"

11 34.3
36.8
39 R 11.2

+5 57
+5 41
25.39

284

600ms

-1290 3.1
43 V 11.2

775

549
775
640

Row 911 +0.21 -0.48

772

9.7 R 8 +79

+0.216 -0.459 VR

217

460

+18.7

1.5
417

+200-450 1.7

+0.216 -0.460

+216 -460 VR

72-110's (5-12)

284.000*

11.000*

39.200*

5.000*

25.000*

0.200*

-0.450*

1.38 1.700*

19.7 21.878

18.700

-1.854

0.058

-34 -39.477

-1.305

-0.459

-33 -37.138

-0.554

0.887

+6 4.453

R.A. : 11.650
 DEC. : 5.400
 PM. R.A. : 217.000
 PM. DEC. : -460.000
 DISTANCE : 1.500
 MODULUS : 20
 RAD. VEL. : 18.700

q1 (U) : ^{0.607}_{W6} -0.875
 q2 (U) : 0.480
 q3 (U) : 0.059
 dU : % -1943.18
 U : -37.676

^{-23.9}
 q1 (V) : 0.403
 q2 (V) : 0.791
 q3 (V) : -0.459
 dV : % -1312.38
 V : -34.777

^{30.2}
 q1 (W) : 0.267
 q2 (W) : 0.378
 q3 (W) : 0.886
 MP : -551.836
 M : 395.5

TIME

Observer:

Date: / /

0578
119

5.253*

11.000*

39.200*

5.000*

25.000*

0.210*

-0.440*

1.500*

19.953

18.700

-1.873

0.058

-25.0
-36.282

-1.249

-0.459

-20.2
-33.495

-0.524

0.887

17.5
6.130