

c2477
w3693
1380

210

5 53.7 -63 04

4.59 +1.07 - 1213

+254 e

+2476(5)

+25.8c(3)

M(10.5)

+2025 +541 Oct

+2025 +542

82-36 +9

.030

20-35 +5

.035

27-36 +9

.035

1174 933 229

1173

933 229

1178 935 230 117

+1405

+251

+3

+135

+4

+540

6c

+145 +542

275

614(110)

87(6)

5567

4078

$$\begin{array}{r} 43.019 \\ 848 \\ \hline \end{array}$$

$$1407.4$$

$$\begin{array}{r} 10200 \\ -63 \\ \hline 101936 \end{array}$$

$$\begin{array}{r} 42.171 \\ 171 \\ \hline \end{array}$$

$$42.836$$

$$\begin{array}{r} -31 \\ 803 \\ \hline \end{array}$$

$$42.97$$

$$1725$$

$$\begin{array}{r} 1868 \\ 1725 \\ \hline \end{array}$$

$$+ .717$$

and

$$(34.6)$$

$$6$$

$$\begin{array}{r} -22.50 \\ 40.08 \\ \hline \end{array}$$

$$\begin{array}{r} 17.18 \\ 17.18 \\ \hline \end{array}$$

$$1407.2$$

$$(6442)$$

$$\begin{array}{r} 43082 \\ 377 \\ \hline \end{array}$$

$$\begin{array}{r} 6.72 \\ -2 \\ \hline 6.74 \end{array}$$

$$1938.72$$

$$84.31$$

$$23.16$$

$$\begin{array}{r} -6 \\ 23.22 \\ \hline \end{array}$$

$$1945.59$$

$$19.2$$

$$- .20$$

$$\begin{array}{r} 19.40 \\ 19.40 \\ \hline \end{array}$$

$$42.62$$

$$\begin{array}{r} 21.31 \\ 21.31 \\ \hline \end{array}$$

$$\begin{array}{r} 18.77 \\ 18.77 \\ \hline \end{array}$$

$$\begin{array}{r} 42.2 \\ 34.6 \\ \hline \end{array}$$

40409

5 53.7 -63 06 AgK3 +25.1 a

207477

13693

4.60 +1.07 *large*

41 1380

+82102

+135 +540

-62 -33 +6 04

3007

614(40)

PC(6)

40 ± 5

1 ✓ 0 -992 452 +135 +540 +25.1 -452 -22.156
-135 +452 0 0 -440 2254 +4.3 0 +11

-16 +68 +7 04

+62 -33 +6

34102

40409 5 53.7 -63 06 9123

HR2102

4.65 +1.05 +0.96 (867)

+25.12

5

+0208 +542 66

+62.15 +544 200(3)

40409.000*

5.000*

53.700*

-63.000*

-6.000*

0.145*

0.542*

2.750*

35.481

25.100

2.536

-0.036

126.2 37.12

89.069

-0.482

-0.862

45.8 -38.725

0.641

-0.506

19.4 10.046

38 Am 5 59.7 +42 53 6-8 +37.66W(3)

40801

-C7641

W3777

41388

+4201473

OCW +2.7

6-10 +0.97+0.78/20.11 R

41 S=00 W(41.0)

+0109 -145 N30

+0107 ± 1.8 -146 ± 1.5 GC 2 N30

2119

$\frac{+102 -141}{0.112 -141}$

FNS Sample

+119 -146 GC
+120 -145 N30

+53 -100 +31 .008
+49 -80 +25 .010
+43 -36 +16 .020

+01044 -1450 W30

5.64+0.36 ② A

+1147 +367

$\frac{+113 -145}{+113 -145}$

828
478

1456 A(28)

355

1.171 875 146
170

R.A. : 6.000
DEC. : 42.900
R.A. : 153.000
DEC. : -141.000
TANCE : 4.850
DULUS : 93
VEL. : 37.600

1 (U) : -0.067
2 (U) : -0.240
3 (U) : 0.968
dU : 124.741
U : 48.057

1 (V) : -0.493
2 (V) : 0.852
3 (V) : 0.177
dV : -831.191
V : -70.917

1 (W) : 0.868
2 (W) : 0.465
3 (W) : 0.175
dW : 149.904
W : 20.580

519

53.4

-110

262

40960

6 0.0 118 01

+42.0

1181067

1225 1007 337

+10 -20 AGK3

+059 -012

+060 -013

~~+21 -41 Y~~

~~+23 -42~~

~~+021 -40~~

+016 -30

+17

-30

7.55

+42.0

10111-1006 (circled)

1014-1006

44

-6

2115

42

+0.0

-13

7.55

+42.0

R.A. : 6.000
 DEC. : 18.000
 PM. R.A. : 62.000
 PM. DEC. : -13.000
 DISTANCE : 7.550
 MODULUS : 324
 RAD. VEL. : 42.000

0032
12/18

q1 (U) : -0.067
 q2 (U) : 0.190
 q3 (U) : 0.979
 dU : -30.442
 U : 31.287

+300

q1 (V) : -0.493
 q2 (V) : 0.847
 q3 (V) : -0.198
 dV : -189.928
 V : -69.784

-57.9

q1 (W) : 0.868
 q2 (W) : 0.496
 q3 (W) : -0.037
 dW : 211.934
 W : 67.029

-28

8C1E

06 056

-45 05

+8201 2

811E

+00604 +041 Sny

+832 46

+00659 +0438

854

810

0696
[074 +044]

6.1

-45.1

105

44

6.0

+92.1

1237 979 322

6.100

-45.100

105.000

44.000

6.000

158.49

82.100

-0.090

0.958

0.272

168.263

49.007

19

-0.481

0.198

-0.854

-127.697

-90.377

79

0.872

0.208

-0.443

349.711

19.055

1884

45.2

-87.8

104

32.4

78.1

1233 976 321

2492 ^{28 24.9 359}
22 300

6 07.8 -26 41/- -13.7
-0010
-0014
-0008 ± 9.1
+021.83
+019
-15.8 -12.5

42486 p-2.34

7858 47.096 00.2
70
136

-0011 +022

-00123 +020

-0165
-013 +020

41.5

23.063
24.017
47.080
081
-2
079

19.63
646
2609
10
26+3
2624
6.1
-26.7
-15
+20
5.0
-15

34.89

47.043
032
074

10.87
14.52
25.39
1.01
26.47
+24
26.23

0.866
0.03

6.100
-26.700
-15.000
20.000
5.000
100

~~-15.000~~

24.5
-0.090

0.823

0.561

83.745

-0.035

-0.481

0.457

-0.748

73.873

18.011

0.872

0.337

-0.355

-23.482

~~2.873~~

304

2200

6 086

-27

08

11d

42621

$$\begin{array}{r}
 -1014 \pm 36 \\
 -05 \\
 -048 \pm 3.5
 \end{array}$$

$$\begin{array}{r}
 351816 \\
 61 \\
 25 \\
 191816
 \end{array}$$

$$\begin{array}{r}
 -054 \\
 -0480.57 \\
 -056 \\
 223 \\
 2834
 \end{array}$$

$$\begin{array}{r}
 -0004 -055 \\
 -00051 -0546 \\
 -0068
 \end{array}$$

$$\begin{array}{r}
 -103055 \\
 8900
 \end{array}$$

$$\begin{array}{r}
 66.97
 \end{array}$$

$$\begin{array}{r}
 35218 \\
 24 \\
 31176
 \end{array}$$

61

206 864 254 117

$$\begin{array}{r}
 3.14159
 \end{array}$$

$$\begin{array}{r}
 35216 \\
 89116
 \end{array}$$

$$\begin{array}{r}
 30.81 \\
 714 \\
 62
 \end{array}$$

$$\begin{array}{r}
 -3 \\
 -55
 \end{array}$$

-4827

5.0

$$\begin{array}{r}
 351197 \\
 6845
 \end{array}$$

41.0

$$\begin{array}{r}
 32.00 \\
 32.03
 \end{array}$$

6.100
-27.150
-3.000
-55.000
5.000
100
1.000

-0.090
0.828
0.554
-214.615
-20.907

-18.1

-0.481
0.451
-0.752
-111.553
-11.907

-10.5

0.872
0.334
-0.357
-98.091
-10.166

-8.9

42089

6 898

+18 40

+4853

+13/11/1

1003-015 PPM

0 -27 4003

1004-015

1181
1005
476 274
874 274

4
1577
+453

44
+11
-101
+11
-101
+11
-101
+11
-101

2
18
67
+453

+0015 -18

R.A. : 6.150
DEC. : 13.650
M. R.A. : -4.000
M. DEC. : -15.000
ISTANCE : 6.770
MODULUS : 226
D. VEL. : 45.300

1.18 ✓
879
267

q1 (U) : -0.101
q2 (U) : 0.265
q3 (U) : 0.959
dU : -16.956
U : 39.612

69

378

q1 (V) : -0.475
q2 (V) : 0.834
q3 (V) : -0.280
dV : -50.574
V : -24.128

308

q1 (W) : 0.874
q2 (W) : 0.484
q3 (W) : -0.041
dW : -50.492
W : -13.275

59

69

42540 6 06.4 -62 09 5.0 NS +21.66

3873

7825 ^{u4}
(400)

+0029 ¹⁴ -076 N30

-018
-070

+0029 ± 4.0 -077 ± 3.8

+0021 ± 4.0 -074 ± 3.8

(2160)

35.5454 2.3 +0027 43.48 5.25

~~864~~
864
6446
3.52
29.96

+0020 -076

+00249 -0747

81.011 44.38

6.1
-62.15

0174

[+022-075]

~~808~~
72.44

38.546 34.40

47
-75

1245 1042 240

10273 1063 266 mpt

-33
42.41

5.0

+21.6

6.100
62.150
47.000
-75.000
5.000
100
21.600

-0.090
0.996
-0.021
-363.335
-36.782

-26.2

-0.481
-0.062
-0.875
-28.135
-21.797

-20.9

0.872
0.069
-0.484
66.402
-3.820

15.4

42759

6

10.2

74 20

+56.8

457 335 1589

110 254 017

0005 1104

0004 -010 2002

1122 576 107

-1 11
-2 11
-007 -0055

6.15
+433
-2.5
-7

0010-010

015-013

007 007

6.95
+56.8

75
73

602
+56.8

R.A. : 6.150
DEC. : 14.350
PM. R.A. : -15.000
PM. DEC. : -13.000
DISTANCE : 6.020
MODULUS : 160
AD. VEL. : 56.800

q1 (U) : -0.101
q2 (U) : 0.253
q3 (U) : 0.962
dU : -8.617
U : 53.273

q1 (V) : -0.475
q2 (V) : 0.838
q3 (V) : -0.270
dV : -18.922
V : -18.371

q1 (W) : 0.874
q2 (W) : 0.484
q3 (W) : -0.035
dW : -90.052
W : -16.410

(251
JCL
381.1

6 10.3 +13 31 -87

42760

+130116

316

(200

740 252 265

+002 8.45 -0.25

+002 +002

8.7

+2 -16

Agar

8.45 +0.3

+048

000

+040

-10 -23

+1 -2

+2 +1.5

-12 -23

0010-021 PPM

140510

15

12

7004

98

-045 -020

-004 -020

6.15

43.5

-4

02

8.8

-8.7

R.A. : 6.150
DEC. : 13.500
PM. R.A. : -15.000
PM. DEC. : -21.000
DISTANCE : 7.090
MODULUS : 262
AD. VEL. : -8.700

q1 (U) : -0.101
q2 (U) : 0.267
q3 (U) : 0.958
dU : -19.601
U : -13.469

q1 (V) : -0.475
q2 (V) : 0.834
q3 (V) : -0.283
dV : -50.158
V : -10.674

q1 (W) : 0.874
q2 (W) : 0.483
q3 (W) : -0.042
dW : -108.572
W : -28.057

7,85

171

236

226

42-911
-41407

6 10.7 -05 00

+430

1170 847 266

-0011 +004 66

-0014 +003

001

-001

+3

6.20

+40.0

R.A DEC. : 6.150
 PM. R.A. : -5000
 PM. DEC. : -21.
 DISTANCE : 3.21
 MODULUS : 174
 RAD. VEL. : 43.000

1h4 0h2 →

q1 (U) : -0.10
 q2 (U) : 0.55
 q3 (U) : 0.82
 dU : 17.96
 U : 38.55

q1 (V) : -0.47
 q2 (V) : 0.70
 q3 (V) : -0.53
 dV : 57.03
 V : -12.95

q1 (W) : 0.87
 q2 (W) : 0.44
 q3 (W) : -0.19
 dW : -80.37
 W : -22.29

R.A. : 6.150
DEC. : -5.000
M. R.A. : -21.000
M. DEC. : 3.000
DISTANCE : 6.140
MODULUS : 169
D. VEL. : 43.000

q1 (U) : -0.101
q2 (U) : 0.557
q3 (U) : 0.824
dU : 17.963
U : 38.469

q1 (V) : -0.475
q2 (V) : 0.701
q3 (V) : -0.532
dV : 57.035
V : -13.254

q1 (W) : 0.874
q2 (W) : 0.445
q3 (W) : -0.194
dW : -80.371
W : -21.915

2-18 32

06 114

-03 48

+790300

43823

$$\begin{array}{r} +025 \pm 5.8 \\ -0208 \pm 9.0 + 023 \\ +024 \\ \hline \end{array}$$

$$\begin{array}{r} 24.687986 - 0020 \\ -0017 \\ \hline \end{array}$$

$$\begin{array}{r} -0013 \\ -00161 \\ \hline \end{array}$$

$$\begin{array}{r} 25.032 \\ 24.881 \\ \hline \end{array}$$

$$\begin{array}{r} 65.31 \\ 68.88 \\ \hline \end{array}$$

$$\begin{array}{r} 143768135 \\ \hline \end{array}$$

$$\begin{array}{r} 34.21 \\ 34.32 \\ \hline \end{array}$$

$$\begin{array}{r} 6.2 \\ -3.05 \\ \hline \end{array}$$

1138765134

$$\begin{array}{r} 24.873 \\ 64.56 \\ \hline \end{array}$$

$$\begin{array}{r} 34.19 \\ 34.16 \\ \hline \end{array}$$

$$\begin{array}{r} 2.2 \\ +2.4 \\ \hline \end{array}$$

$$\begin{array}{r} 65024 \\ 248620 \\ \hline \end{array}$$

$$\begin{array}{r} 41.40 \\ 41.40 \\ \hline \end{array}$$

$$\begin{array}{r} 25.06 \\ 24.10 \\ \hline \end{array}$$

$$\begin{array}{r} 5.0 \\ +50.0 \\ \hline \end{array}$$

$$\begin{array}{r} 24931 \\ 2482 \\ \hline \end{array}$$

$$\begin{array}{r} 24.82 \\ 24.82 \\ \hline \end{array}$$

$$\begin{array}{r} 1.15 \\ 34.7 \\ \hline \end{array}$$

6.200
-3.750
-22.000
24.000
5.000
100
50.000

-0.113
0.539
0.835
73.062
49.035

464

-0.468
0.712
-0.523
129.734
-13.186

170

0.876
0.450
-0.173
-40.003
-12.626

11.5

1150 506 217

43096

6

12.2 +16 39

+47-1

+1601057

630 357 2457

+10 -52 AG23

⁴²
-030 +039 245 +17 +044

+7 -47 Y₀

+3 -13
-2 +1.5

PPM

6.2
+16.66

+0001-044

9.5

+001-044

+1

-47

h₁₄

6.05

6.81

147.1

424

+009-047

1194

908

221

43096

h

12.2

+14

39

120

4160057

+477.1 Kniffen

+007 -047 Yale

+011 -044 BC

+009 -042 F124

+010 -042

7.94 +1.09 +0.94 ①

7.53 +0.38 ②

716

753

66

6.6

R.A. :	6.200
DEC. :	16.650
PM. R.A. :	1.000
PM. DEC. :	-44.000
DISTANCE :	6.310
MODULUS :	183
RAD. VEL. :	47.100

q1 (U) :	-0.113
q2 (U) :	0.215
q3 (U) :	0.970
du :	-45.257
u :	37.423

q1 (U) :	-0.468
q2 (U) :	0.850
q3 (U) :	-0.242
du :	-179.324
u :	-44.191

q1 (W) :	0.876
q2 (W) :	0.482
q3 (W) :	-0.005
dw :	-96.504
w :	-17.871

1140 1140 1140

Off Menu

6

13.3

+239 5.9

965 -20.97

-000152.5
-0013
-015 -006

-012 ± 2.5
-015 -006

HR2230

3

6.09 +0.90 +0.62 6-5-111

W3961

43261

1899.1

-010 -012 6-6

15.736

1901.8

+23 5.9 16.87

-014 -018 2,66+

034

770

1876.89

17.48

-23.4

770

770

1876.89

17.48

-23.4

15.721

26

17.10

16.84

-20.7

26

747

17.10

16.84

-20.7

747

747

17.10

16.84

-20.7

44.008

728

25.42

17.0

10.139

31.672

042

18.06

25.42

10.139

15.684

684

18.06

25.42

10.139

684

684

18.06

25.42

10.139

15.713

32.0

18.06

25.42

10.139

32.0

32.0

18.06

25.42

10.139

684

684

18.06

25.42

10.139

998-058 407 914 -014-015 -20.9-006-8.5-066

014 0060010 066 033 -19.1 +11-19.1 008

$$+9-15=16$$

$$\boxed{+14-2-13}$$

$$+87-16.3-15.1$$

01

$$\boxed{-28.3-0.2-17.1}$$

$$+12.1-13.6-15.5$$

006

$$\boxed{-120.1-2.6-17.4}$$

R.A. : 6.200
DEC. : 24.000
PM. R.A. : -15.000
PM. DEC. : -9.000
DISTANCE : 4.400
MODULUS : 76781
RAD. VEL. : -20.900

q1 (U) : -0.113
q2 (U) : 0.089
q3 (U) : 0.990
dU : 3.530
U : -20.417

q1 (V) : -0.468
q2 (V) : 0.874
q3 (V) : -0.132
dV : -6.839
V : 2.231

q1 (W) : 0.876
q2 (W) : 0.478
q3 (W) : 0.057
dW : -77.328
W : -7.053

43 Ann

2239 6 14.6 446 23 1827

43370

720

-31

328

573 180

+12

1239 975 289

1234 971 288

(280)

6.40 + 1.10 + 1.12

5.85 + 0.398 AD

547

455

-13.5
-0.25

6.1

40014 - 1293 4124 0.16

(0.15)

-14
+0145

+0013 - 129

+013 - 129

+013 - 129

(0.15)

8.45

835

891

2239.000*

6.000*

14.600*

46.000*

23.000*

0.013*

-0.129*

6.100*

165.959

0.000

0.172

0.948

+ 20

28.575

-0.555

0.207

- 97

-97.180

-0.199

0.242

- 34

-32.992

43 Am
43380
G-68655
W 3977

6 14.6 +44 23 gK2 0.08W(13)

6.39 +1.11 +1.12 12.11 R

W(12.7)

+30 -97 -25 006
+26 -83 -21 .002
+22 -23 -19 .008
+21 -64 -17 .009

plw

10441007

+45 -145 -35 .004

998-063 724 680 +023-131 0.0-095 0-426

-023 095-001 006-137 445 0 0

-15+47-48 0095

33.179 1896.2 +0016 +44 22 5.587 1892.0

+18-65-17

-081
098
41.31
51832
33.179
134
150

-23 +74 -71 006

32.3

41.31
51832
33.179
134
150

28.3 1927.0
2272
0.68 28.5
2.04
58.24
58.90
58.3 1530.0

-34 +111-106 007

+45-145-35

0035

33.12
30
150

150
1052

58.90
58.24
58.3 1530.0

-39 +127 -121

+52-167-45

889
889
101
11
5820

R.A. : 6.250
DEC. : 46.400
PM. R.A. : 19.000
PM. DEC. : -129.000
DISTANCE : 5.000
MODULUS : 100
RAD. VEL. : 0.000

0554
509
q1 (U) : -0.124
q2 (U) : -0.294
q3 (U) : 0.948
dU : 172.099
U : 17.210

129
+34.0
q1 (V) : -0.462
q2 (V) : 0.862
599 q3 (V) : 0.207
dV : -555.936
V : -55.594

206
q1 (W) : 0.878
q2 (W) : 0.412
q3 (W) : 0.243
dW : -197.631
W : -19.763

2259 -8 -45 1623 6 15.9 + 9 04 -248 045

4393 1 240
-4 -46 4
-4 +1
-6

+91184

+0007-045
+00053-043
+00078
+00091-044

124 758 121 45
+00091-044

117 156. 111

+0021=150
-046
-045- ±13.0

56.087 00.3 +0006
-104

55.483
55.495
28

6210

56.023

40.08

55.487
+23

7.92

8.88
+14

5.025

1001-046 600000

1001-046

1
-46
446346

+4.1
+9
-44

5.0
-440

R.A.	:	6.250
DEC.	:	9.100
PM. R.A.	:	-1.000
PM. DEC.	:	-46.000
DISTANCE	:	4.63
MODULUS	:	84
RAD. VEL.	:	-24.80
q1 (U)	:	-0.12

q2 (U)	:	0.340
q3 (U)	:	0.932
dU	:	-73.643
U	:	-29.326

q1 (V)	:	-0.462
q2 (V)	:	0.811
q3 (V)	:	-0.358
dV	:	-174.752
V	:	-5.865

q1 (W)	:	0.878
q2 (W)	:	0.475
q3 (W)	:	-0.057
dW	:	-107.714
W	:	-7.675

Van 19 57

Noorman, C. 6

Asterhoff, C. Am

15 47

-16 48

-8.1

21.10.12

-1006.25.3 +1008.24.6

28.827

-1007 +1003

28.187

-1006

11.4

-16.1426

-10109 +10012

21

-1007

-31

-0156
-013 +1001

28.144

45.06

45.15

6.25

1.301 1.053 297 m

28.145

45.48

45.40

16.8

12.4 1033 241

24

45.48

45.40

14

241

45.26 1.501

41.42

31.73

5.0

28.178

45.26

41.42

31.73

5.0

14

45.26

41.42

31.73

5.0

14

45.26

41.42

31.73

5.0

24

45.26

41.42

31.73

5.0

43827

3994

8080



6 15.5

-16 48

5.3 9.12 -8.1a

32

-0005 +002 N30

-0006 ± 53 +007 ± 4.6.6c → N30

16.250
-16.800
-14.000
1.000
5.000
100
-8.100

-0.124
0.713
0.690
11.254
-4.462

-0.462
0.574
-0.676
32.083
0.686

0.878
0.403
-0.259
-53.873
-3.292

43899

EC8075

W3991

WR2263

8d
20

814
500

6

15.3

-37 43

100 + 70 d L (1)

5.4: +1.1: Schut + 5

552 1.13 222

5.53 + 1.14 + 1.115 BS

19.056 190903

153 -50 -20 .015
+50 -50 -20 .017

000 080
+081

1004 + 081

1216970 240 MF
1216970 240 MF

181
4.15

+65.7 3Sta.

6.25

27.7

4

81
50 46.5 days

-008 ± 4 +092 ± 6

-006

+074 0.2

+055

-007

possible

1211 917 289

19.056
620
0.76

-00054.4 +0792.3
-0001 +0788.51 19048

-3.57
12.08

-0003+078
0 +078

14.078

672

70

14060
25
0.52

6.74

9.52 1539.41
+17
4.35

(6470)

~~0002 +075 Aug 53~~

0200 +050

R.A. : 6.250
DEC. : -37.700
PM. R.A. : 5.000
PM. DEC. : 81.000
DISTANCE : 4.150
MODULUS : 68 *UM*
RAD. VEL. : 65.700

q1 (U) : -0.124
q2 (U) : 0.912
q3 (U) : 0.390
dU : 348.015
U : 49.145

q1 (V) : -0.462
q2 (V) : 0.295
q3 (V) : -0.836
dV : 104.451
V : -47.889

q1 (W) : 0.878
q2 (W) : 0.284
q3 (W) : -0.385
dW : 125.454
W : -16.830

R.A. : 6.400
 DEC. : 16.100
 M. R.A. : 21.000
 M. DEC. : -51.000
 DISTANCE : 5.500
 MODULUS : 126
 D. VEL. : 71.700

q1 (U) : -0.158
 q2 (U) : 0.226
 q3 (U) : 0.961
 dU : -69.684
 U : 60.153

q1 (V) : -0.443
 q2 (V) : 0.854
 q3 (V) : -0.273
 dV : -248.777
 V : -50.915

q1 (W) : 0.883
 q2 (W) : 0.469
 q3 (W) : 0.035
 dW : -28.963
 W : -1.155

0.1-
 1.05-
 5.07
 LHR

ju

1190900 141

44894 6 21.4 -20 55 +19.0

20.1323

1168 81520 ✓

~~1001 + 100~~ ✓

~~24 + 1017~~

-9 + 1017

1017

117

73

1167

R.A. : 6.330
DEC. : -21.000
PM. R.A. : -10.000
PM. DEC. : 15.000
DISTANCE : 7.30
MODULUS : 288
RAD. VEL. : 19.00

q1 (U) : -0.14
q2 (U) : 0.76
q3 (U) : 0.63
dU : 60.39
U : 29.44

q1 (V) : -0.4
q2 (V) : 0.5
q3 (V) : -0.7

24/6

dV : 56.912
V : 2.631

q1 (W) : 0.881
q2 (W) : 0.389
q3 (W) : -0.270
dW : -11.296
W : -8.393

-1.9

-2.8

030 412 089 1030 159 312 003 80 12

010

44951 6 21.8 -11 30 5.4 g 123 -26.1 g

4072

8265

37

-0039 -036 N30

~~-0038 ± 4.2 -042 ± 3.5 GC → N30~~
W₃₅₀

(2305)

-00407 -0404
-00418 -0408

6.35
-11.5

1032 226

1260

1271 1040 276

1275 1043 229

1268 1040 328

-0614
[-059-041]

(117)

20
-41
5.0
-26.1

6.350
-11.500
-60.000
-41.000
5.000
100
-26.100

-0.147
0.646
0.749
-84.673
-28.023

-0.449
0.631
-0.632
2.583
16.755

0.881
0.429
-0.198
-329.029
-27.741

45046

6 224 +13 52

-70.2

+1301242

531 344 2237

-1 -9 4603

+55

-024 +051 78 +0.75 015

+9 -22 4

55

+602 +051 78 +285 -016

+1 -2
-1 1.5

6.4 +13.4
+4

+8 -22

-16

+4 -186

705

-10.2

6.400
13.900
4.000
-16.000
7.050
257 ⁰⁴
-10.200

-0.158
0.263
0.952
-22.817
-15.574 ⁻¹⁴⁹

-0.443
0.843
-0.306
-72.067
-15.404 ^{13.4}

0.883
0.470
0.017
-19.398
-5.157 ⁻⁴⁶

Lie
Lh3
L111

45077

6 21.3 -50 05

+16.7

~56.561 (961)

+0001-0044+6

1118731 123

28.968 41.95 2865

[7005-14]

+8

-14

6.3

16.7

R.A. : 6.330
DEC. : -50.100
PM. R.A. : 8.000
PM. DEC. : -14.000
DISTANCE : 6.300
MODULUS : 182
RAD. VEL. : 16.700

q1 (U) : -0.142
q2 (U) : 0.973
q3 (U) : 0.183
dU : -68.009
U : -9.318

3.6

q1 (V) : -0.452
q2 (V) : 0.101
q3 (V) : -0.886
dV : -17.685
V : -18.019

-14.5

q1 (W) : 0.881
q2 (W) : 0.209
q3 (W) : -0.425
dW : 7.574
W : -5.726

2016

6 22.2 -36 41

45145

-0016 +050 Aug

-0016 ~~5~~ +050 7

410

418

1182-570 191

-0192
[-015 +051]

6.4

-36.7

14

+51

5.0

+52.4

+52.8

6.400
-36.700
-19.000
51.000
5.000
100
52.800

-0.158
0.902
0.401
229.504
44.141

360

-0.443
0.299
-0.845
104.157
-34.220

-379

0.883
0.311
-0.353
11.506
-17.463

181

1.176.864 189

2342 6 25.5 +10 20

45812

Handing

1.228 1009 290 mP
1228 1009 259

1027-043

+27
-43
5715
19.3

R.A. : 6.400
DEC. : 10.350
M. R.A. : 27.000
M. DEC. : -43.000
DISTANCE : 5.150
MODULUS : 107
D. VEL. : -19.300

q1 (U) : -0.158
q2 (U) : 0.321
q3 (U) : 0.934
dU : -85.297
U : -27.163

q1 (V) : -0.443
q2 (V) : 0.822
q3 (V) : -0.357
dV : -223.347
V : -17.033

q1 (W) : 0.883
q2 (W) : 0.470
q3 (W) : -0.012
dW : 15.298
W : 1.879

6.6ym 1140 83-132
45410 (17)

50W +30

0004 004 00000

6 26.4 +58 12 09 58 +366

GC8416 2321

W(2.5)

+35.7W9
+40.0U(1)

5.88 +0.94 +0.66 ROT R

11499

M₁ = 216 S=06
35

+58932

-0030

-35. N30

-0027 ± 1.8 -337 ± 1.4 6C = N30

+62-34-7 .0265

-019 -337 6C

+52-17-1 .040

-00285 -3875 N304

-024 -338 N30

-020 -335

+71-49-15 .02

-0031 -8365

1134-334 (curlew)

-0245

+86.0

(17 A(16))

36W(5) +16 902

-021-39

59
339

2356

240

3UB

894 +1429

139234

W(16)

1684

506

1
-00.24 = 1.3
-337.1.4

26.784 1898.4 +58 12 7.41 1897.2

6 Lyn

5410

68416

2440

1499

580932

6

26.4 + 58

12-2968

+362

5.88 + 0.44 + 0.66

w(+2.5)

S=06 NOT R

542 + 0.3384

572

465

171 -49 -15 .020

162 -34 -7 .0265

52 -19 -12 .040

.0305

57 -30 -6

017A(6)

036w(6)

23±6

cc

-019±2 -337±1

-024 -338 M30

-020
-338

A.	:	6.450
C.	:	58.200
A.	:	-59.000
C.	:	-339.000
CE	:	4.500
JS	:	79
..	:	39.000
D)	:	-0.169
D)	:	-0.475
D)	:	0.864
DU	:	788.364
U	:	96.300 100.10
)	:	-0.436
)	:	0.822
)	:	0.367
DV	:	%-1256.007
V	:	-85.469 82.67
N)	:	0.884
N)	:	0.315
N)	:	0.346
DW	:	-636.122
W	:	-37.024 -84.67

308
 308
 741
 501
 19.1
 303
 894
 508
 189

550 527

[illegible]

6.500

-12.350

43.000

-23.000

5.000

100

17.200

53

0089

-0.180

0.656

0.733

-107.374

1.876

40.3

-0.430

0.618

-0.658

-152.948

-26.616

107

-28.9

-2.86

0.885

0.434

-0.170

128.864

9.958

+11.9

13.7

R.A. : 6.500
DEC. : -12.350
PM. R.A. : 43.000
PM. DEC. : -21.000
DISTANCE : 4.650
MODULUS : 85 *h*
RAD. VEL. : 17.200

q1 (U) : -0.180
q2 (U) : 0.656
q3 (U) : 0.733
dU : -101.159
U : 4.003

q1 (V) : -0.430
q2 (V) : 0.618
q3 (V) : -0.658
dV : -147.088
V : -23.841

q1 (W) : 0.885
q2 (W) : 0.434
q3 (W) : -0.170
dW : 132.977
W : 8.390

17055146 -00074 -0483
 -00042 -0471
 6 28.3
 45951
 1223 988 296
 1223 988 296
 17055146 -00074 -0483
 -00042 -0471
 6 28.3
 45951
 1223 988 296
 1223 988 296

4157 2366
 8449 16.172 1901.9 +16 58
 61.08 30.25
 -10
 30.15
 16093
 30
 123

Op m 8 " } phasing
 12" 42" }
 16.092
 29
 12

31.7
 133
 025
 1457 -0714
 9832 -9975

19.1418
 26.9609
 16.104
 104
 39
 143
 050
 0025
 10.1924
 10.1924

1007-052
 10045-0805
 10012
 1001050
 10012
 10012
 10012
 10012
 10012

1007-052
 10045-0805
 10012
 1001050
 10012
 10012
 10012
 10012
 10012

1007-052
 10045-0805
 10012
 1001050
 10012
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1007-052
 10045-0805
 10012
 1001050
 10012
 10012
 10012
 10012
 10012

1007-052
 10045-0805
 10012
 1001050
 10012
 10012
 10012
 10012
 10012

5.456
17.000
-1.000
-50.000
5.850
142
26.900

291

-0.169
0.211
0.963
-49.314
18.602

201

-0.436
0.860
-0.265
-201.781
-36.984

-30.9

0.884
0.465
0.053
-114.204
-15.462

-120

(22795) 297

204
33
33
33
33

4003-033

4002-033

4005-033

4004-032
4002-031

4003-031

4004-031

4005-031

4006-031

35.833
33
33
33
33

4004

35.833
33
33
33
33

4003

4002

4001

40.04
33
33
33
33

40.04
33
33
33
33

40.04
33
33
33
33

4003-031

4004-031

40.04

40.04

40.04

40.04

40.04

40.04

40.04

R.A. : 6.500
DEC. : 11.700
1. R.A. : 3.000
1. DEC. : -33.000
STANCE : 5.350
MODULUS : 117
0. VEL. : -20.900

q1 (U) : -0.180
q2 (U) : 0.300
q3 (U) : 0.937
dU : -49.405
U : -25.384

q1 (V) : -0.430
q2 (V) : 0.833
q3 (V) : -0.349
dV : -136.235
V : -8.708

q1 (W) : 0.885
q2 (W) : 0.466
q3 (W) : 0.021
dW : -60.501
W : -7.554

$$-0012 \pm 3.2 \quad -089 \pm 2.8$$

$$-0007$$

$$+14 \frac{0009}{12}$$

$$-0011$$

$$-092 \frac{089}{088}$$

$$5.6 \quad 9102 \div 12.18$$

$$46374$$

$$4214$$

$$2841$$

$$8518 \quad 45.782 \quad 1903.9 \quad +14 \quad 11 \quad 43.08 \quad 1405.3$$

$$\frac{055}{837}$$

$$48753$$

$$26$$

$$574$$

$$45.72$$

$$41.73$$

$$-7$$

$$41.66$$

$$\frac{3.58}{47.06}$$

$$44.40$$

$$14$$

$$44.54$$

$$1433.1$$

$$6.5$$

$$+142$$

$$-14$$

$$-87$$

$$5.0$$

$$12.1$$

$$15786$$

$$24$$

$$768$$

$$9026$$

$$4114$$

$$-11$$

$$41.53$$

$$45.789$$

$$33$$

$$822$$

$$816$$

$$-021$$

$$32.2$$

$$4392$$

$$3$$

$$43.95$$

$$1939.12$$

$$2.22$$

$$36.1$$

$$30.8$$

$$45.791$$

$$20$$

$$1811$$

$$-0009 \quad -089$$

$$-00104 \quad -0874$$

$$-0151$$

$$44.25$$

$$-2.82$$

$$1248 \quad 983 \quad 289$$

$$10222 \quad 937 \quad 281 \quad (1) \quad 0112$$

$$-014 \quad -087$$

6.500
14.200
-14.000
-87.000
5.000
100
-12.100

-0.180
0.259
0.949

✓ 19.2 ✓
-95.060
-20.989

-0.430
0.847
-0.313
-321.699
-28.388

22.4

0.885
0.464
0.042
-248.335
-25.337

20.7

2394
46568
30.6

752
+0049 4.5
+0043
-37 39

-07953.6
-076
5.3 6.5 +39.04

4212

+0044
+0043

8514 38.466 1909.9 -37 39 27.23 1905.7

196
270

70.09
38577 28.52
22

+0046 -075
+0040 0

544 28.5938.396
390

26.52 1939.31

325

430

+175
26.384
9477
47.4
41.7

359
200

+1168
4057-075

+058-075
27.79

38.461

1955.46

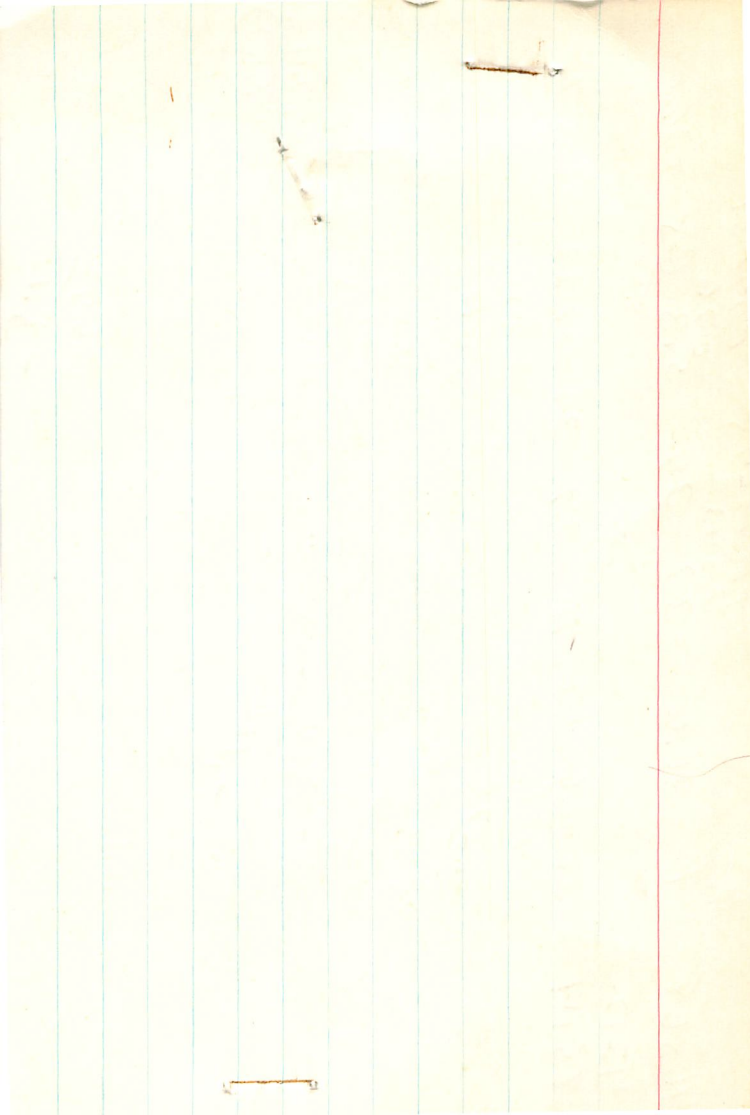
167842 150
471

+0536

6.5
-3765
73

+0045 -076
+00451 -0752

26.92
-3.19



-42 +21
-4 -1

6 323

-52 17

+49 402
+024 +5.8 (2)
+024 +5.05

47101 432

-0058 ± 7.5

+026 ± 4.6

00.4 00.52
00.44

18224
288
512

23.44 89.4
-2.18
25.62

-0047 +026
-00432 +024

(24.36)

14.71 6.5
9.18 523
23.89 57
23.61 +29

-0356

0355 +024

384

-00

21.58
21.42

5.5
75.8

210 645 106

2420
-40
2460

181380
-14
314

(381)

36 071 140
010 071

144

96

6.17

6.500
-52.300
-57.000
29.000
5.500
125
5.240

589
35

-0.180
0.973
0.141
163.602
21.355

+18.7

-0.430
0.051
-0.902
78.937
4.995

+2.3

0.885
0.223
-0.409
-115.495
-16.728

-12.7

73

1200 887 162

8 Lyn 2394

46450

6 33.1 +61 32 29 67 = 46.48

BC8572

W4855

6.0

6(+2.9)

-45.9W(3)

-46.9V(1)

X1524

+610983

-0250 -275 N30

-0282 ± 1.4 -274 ± 1.2

-282

206 274

-2 -77 -66 .025

-9 -42 -57 .63

482

274

482

46.4

-12880

205.8 -276.2

276

-200 ± 1

-274 ± 1

482

276

26 ± 5 A(16)

R.A. : 6.550
DEC. : 61.550
R.A. : -432.000
DEC. : -276.000
DISTANCE : 4.550
MODULUS : 81
VEL. : -46.400

q1 (U) : -0.192
q2 (U) : -0.521
q3 (U) : 0.832
dU : 867.924
U : 31.941

q1 (V) : -0.423
q2 (V) : 0.809
q3 (V) : 0.409
dV : -645.377
V : -71.420

q1 (W) : 0.886
q2 (W) : 0.274
q3 (W) : 0.375
dW : % -1222.008
W : -116.734

22.1566

2437-1

06 35.4

-146

-12 56

+8.5 (2)

97366 405

+2016±6.4

+10024

1164858 154

22.266 13.8

20.77 11.4

-121

+4

-64
194

1

12.984

34.37

3.74

6.6
-12.95

5.242

22.228

14.85

1834

23

-142

1.24

5.0

+9.0

22.6

+28

254

14.85

146

14

017 -11

0034 -1425

0196

022-142

22195

+240

2

33.07

14.02

14.14

6.600
-12.950
23.000
-142.000
5.000
100
9.000

-0.203
0.652
0.722
-467.163
-40.223

301

-0.416
0.609
-0.675
-453.925
-51.472

46.5

0.886
0.437
-0.152
-200.104
-21.380

19.2

59CMA
 17536 ... 258
~~1551~~
~~1551~~ 456
 456
 456

6 35.9 -32 18

14302 GC 5667

B-V
 5.26 +1.16 Cape

+77.5 L(4)

+80.7 C(3)

1551

1R2447

385
 5.22 +1.20 +1.12 G9(+0.3)M

+78.8C

+79.5 15th

32032.4

+100 +067
 +089.4 +085.0
 +095 +075

0086 +060
 +0858 +0603
 1088

113 +061

6.6
 -32.3

137

6.1

4.5

+78.8

+56 -71 +32 .010

+47 -68 +6 .020

0074(10)

+21C(6)

01248

1262 989 142 M

1229 964 134

$$\begin{array}{r}
 +00794.2 \\
 +0089 \\
 +0083 \\
 +058 \\
 +062 \\
 \hline
 \end{array}$$

$$55.187$$

$$1407.1$$

$$-32$$

$$17$$

$$45.94$$

$$1402.4$$

$$\frac{334}{54.848}$$

$$(10.86)$$

$$(64.10)$$

$$\frac{-3.19}{49.15}$$

$$54.848$$

$$55.353$$

$$44.44$$

$$49.15$$

$$53.109$$

$$375$$

$$44.98$$

$$47.10 \quad 1438.91$$

$$\frac{116}{9}$$

$$394$$

$$\frac{+21}{46.89}$$

$$93.71$$

$$55.197$$

$$(39.8)$$

$$\frac{116}{46.58}$$

$$46.9$$

$$+ .349$$

$$+ \frac{2.59}{2.59}$$

$$(44.5)$$

$$55.255$$

$$\frac{2.96}{2.96}$$

$$46.37$$

$$143-480$$

$$\frac{46.27}{46.27}$$

6.600

-32.300

137.000

61.000

4.500

79

78.800

43

-0.203

0.864

0.461

138.483

47.358

42.6

-0.416

0.351

-0.839

-127.113

-76.210

-72.8

0.886

0.362

-0.288

591.230

24.233

+8.3

2460

6 37.8

-30 25

-23.9

-0007 ±4.9

-184 ±4.9

47 946

34

(614)

47689 7.4

15.17

6.1

0008 -1925

~~25.~~ 719

8.08

7.09

00082 -1922

472445

66.46

18.60

0106 -0007-191

6.6

655

26

18.86

30.4

-0007-191

217 988 252 MF

-8

791

5.0

-23.4

(85.4)

47.664

2.0

684

16.80

3.8

16.70

1209 983 250

47.664

2.0

684

16.80

3.8

16.70

1213 988 251

47.664

2.0

684

16.80

3.8

16.70

1349

421

13.25

694 252

47.664

2.0

684

16.80

3.8

16.70

19.33

16.35

6.600
-30.400
-8.000
-191.000
5.000
100
-23.900

-0.203
0.848
0.490
-761.068
-87.812

-84.4

-0.416
0.378
-0.827
-328.725
-13.109

-11.6

0.886
0.371
-0.276
-365.285
-29.925

-28.3

2465

4 38 14.6

6 38.3

-38 07

+17.7

48087

+0044

-023

(slm)

+00418

-0327

6.65

-38.1

67

-32

6.0

+17.7

0493

[053-032]

516
(511)

1242 996332

1239

942

331

6.600

-38.100

67.000

-32.000

6.000

158

17.700

.49

-0.203

0.906

0.372

-188.070

21.9

-23.227

-0.416

0.264

-0.870

-144.051

37.2

-38.232

0.886

0.331

-0.324

171.302

20.7

21.422

$$\begin{array}{r} 2505 \\ 45 \\ \hline 2550 \end{array}$$

$$06 \ 40.4$$

$$74 \ 43$$

$$+2006$$

$$49208$$

$$+10029$$

$$+10068 \pm 80$$

$$-056 \pm 71$$

$$-041$$

$$20 \ 04$$

$$6 \ 41 \ 43.188 \ 97.8$$

$$+10080 -71 \ 73$$

$$29.29 \ 96.5$$

$$36$$

$$-355$$

$$58$$

$$-0449$$

$$+10046$$

$$42.783$$

$$293$$

$$3.00$$

$$56.28$$

$$28889$$

$$57.28$$

$$31.52$$

$$220442$$

$$481$$

$$+100530$$

$$-0484$$

$$43.085$$

$$29.80$$

$$6.7$$

$$-22$$

$$28.70$$

$$-57$$

$$923$$

$$.008$$

$$28.42$$

$$923$$

$$-48$$

$$.33$$

$$041$$

$$29.40$$

$$0$$

$$29.40$$

$$96$$

$$-48$$

$$6.0$$

$$+20.14$$

$$28.73$$

$$2$$

$$198$$

$$28.73$$

$$28.73$$

$$28.73$$

$$28.73$$

6.700

-71.700

96.000

-48.000

6.000

158

20.500

49

-0.225

0.955

-0.193

-249.413

-43.515

-35.4

-0.402

-0.272

-0.374

4.358

-17.317

-16.8

0.887

0.119

-0.445

99.773

6.637

3.4

$$2531 \quad +0025-0966 \quad 44.6 \quad -7304 \quad +16.0$$

$$+00321-0954 \quad +0077 \pm 9.5 \quad -110 \pm 8.0$$

$$44449 \quad +0140-0947 \quad 38.925 \quad 3.2 \quad +0026 \quad 44.65 \quad 98.7$$

$$+019-0947 \quad -38.7 \quad +0011 \quad 51.4$$

$$38760 \quad 48.40 \quad 38.748 \quad 69.49 \quad 50.81$$

$$-117 \quad -34 \quad 14 \quad 50.79$$

$$38760 \quad 48.74 \quad 9.304 \quad 29.14 \quad 9.71$$

$$38760 \quad 49.14 \quad 30.580 \quad 38.10$$

$$-16 \quad 49.14 \quad 39.88 \quad 47.81$$

$$49.14 \quad 49.14 \quad 49.14 \quad 55.4$$

$$49.14 \quad 49.14 \quad 49.14 \quad 47.81$$

$$1167817122$$

6.750
-73.100
65.000
-94.000
5.000
100
16.000

-0.236
0.947
-0.218
-443.118
-47.794

-42.1

-0.395
-0.298
-0.869
97.422
-4.158

-5.4

0.880
0.119
-0.445
26.506
-4.467

-4.8