

1.340 1098 343 541 MF

46229 29.4 -8 0008

4187 2381

8485 25.850 1907.2 -8

8.16 15.42 13

82474 13.748

57015 12.100 25.846

28.854 13.061 850

28.854 19 857

28.841 861 860

1.205 1071 1169

510-019

-000954 / -008±3.9
-020-019 017
5.6 912 +2.98 -81

0008
0006

7 14.52 1906.7

25.822 70.47 15.30

8.54 849 31.2

12.100 8.54 12.24

194.44 13.82

45.18 25.22 15.30

14.79 14.79

15.13 1940.05

14.79

14.17 +3.5

12.24 -1.58

15.30 14.79

14.79 -0.62

14.17 15.13

14.79 +3.4

14.79

14.79

38.4 31.7

1933.85

14.79

-0.62

15.13

1940.05

14.79

14.79

6.500
-8.100
-14.000
-19.000
5.000
100
2.900

-0.180
0.599
0.780
-42.135
-1.952

-0.430
0.665
-0.611
-31.674
-4.938

0.885
0.445
-0.138
-98.226
-10.222

4022

6

29.1 + 6 44

68.5

1.0 87 726 887

-0035 -041 4444

140-2507

7374 6 28.5 -12 21

2364

45984

-016

-0011

to

-00074

-012

-0054

[-001-012]

06

+12.7

26.3 - 87

16.580 8.2-0013

113
693

11.37 4.7

86

10.51

0

6945

16.614

11.86

11.94

8933

16.643

11.02

-12
69

11.82

6.45

-58

-2

-12

585

72.7

-0.22
-0.14
-0.1653.6

-0027 43.9

6.450
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-2.000
-12.000
5.850
148
12.700

14791

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0.985
0.045
-55.153
-7.586

48

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-0.034
-0.899
4.115
-10.810

11.0

0.884
0.172
-0.435
-14.286
-7.630

2367 2679 900 827
 13.53 -10 03 01 27
 57 49.223 15.0 10005
 1387 1034 326 425 368 10005
 1004 1041 10005
 10072 1387 1034 326 10005
 1006 27 49.212 69.32 47.115
 1008 109 309 47.12
 15 1289 1000 2270
 14 1003 952 23.56
 20 1206 597 329 49.360
 1009 1010 1000 19.674
 1011 1012 1000 24.58
 1013 1014 1000 10.5
 1015 1016 1000 46.73
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 1023 1024 1000 -9
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 2267 2268 1000
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 2273 2274 1000

6.450
-10.000
-8.000
-9.000
6.000
158 49
18.700

-0.169
0.625
0.762
-20.361
11.019

-0.436
0.646
-0.627
-11.243
-13.502

0.884
0.438
-0.164
-51.785
-11.256

-5003 ± 64
+024 ± 4.9
+008
+015
+0014

2359
15765
225 925 164
1207 920 62
+0015
+0010
+0059
+00112
+021 +005
+0160
+019 +009

06 26.4
-17 26
+16.7
+17.8
+17.2

24449 16.4
010
459
58.85 12.5
-15
58.50

24486 (6720)

58.13
+8
58.05
6.45
-17.45
20
9
5.0
+17.2

18.055 (34.11)
6.405
24.460
465
2
490

2.30
58.20
59.50
114
58.69
+414
58.22

24.508
26
21.508
57.89
3

(6940)
586
5784

+0015 +006
+0019 +009

586

6.450
-17.450
20.000
9.000
5.000
100
17.200

-0.169
0.719
0.674
15.372
13.135

-0.436
0.559
-0.705
-15.625
-13.691

0.884
0.414
-0.219
97.562
5.986

2357 +19 -107
-11
11
06 24.1 -63 270 +23.4

15701 -106 ± 6.4 -109 ± 5.8

321 389 5.467 004 008 008
24
53.12 97.2

+0006 -106 901 580.8
-106 9 10.818
+1072

58.56 6.4
52.20 -63.4
50.76 +2.9

1013-107
5.607
5.949
5.92
+1.89
-107
3.5
+23.4

5.1610 46.2
0119.9
-56
52.96
5-2.30

6.400
-63.400
29.000
-107.000
3.500
50.000
23.400

-0.158
0.986
-0.047
-509.975
-26.656

-0.443
-0.113
-0.889
30.110
-19.302

0.883
0.120
-0.455
-6.355
-10.960

1402340 6 256 + 16 16 6.22 65

1601159
045506

$$\begin{array}{r}
 -00603 \\
 +37 \\
 \hline
 -00566 \\
 20 \\
 \hline
 -00586 \\
 \hline
 -00550 \\
 +12 \\
 \hline
 -00538 \\
 +16 \\
 \hline
 -00522 \\
 \hline
 -00500 \\
 \hline
 -00522 \\
 \hline
 -00522
 \end{array}$$

+40.7

45506.000*

6.000*

25.600*

16.000*

16.000*

-0.085*

-0.052*

6.000*

158.489

40.900

0.011

0.961

41.039

-0.034

-0.274

-16.556

-0.471

0.042

-72.925

1077
was

~~1077~~

35384
113
352
258

17.65
107
17.75

1458.01

35384
113
352
258

016-053

18.68
18.71

1435.82

30.283

1410.8-0064

19.18
2.09
20.27

1411.4

-0062

-052
-054

05352

45506 6 25.6 +16 16 6.3 66 +40.96

4124

24

8382 -0060 -044 N30

-00705.5 -051E5.6 66 → N30

-183

61

~~0065 -0475 N30 + →~~

~~0045 -047 →~~

~~0057 -054 22 →~~

~~0062 -044 #6.12C~~

Maximum Squared

0064 -048

-0066 -053 624

-0068 -0525

-042 -048

-0915

-0920 -052

M Miller
Very sensitive to

2340.000*		2340.000*
6.000*		6.000*
25.600*		25.600*
16.000*		16.000*
16.000*		16.000*
-0.035*		-0.035*
-0.044*		-0.052*
6.000*	6.1	5.000*
158.489	165	100.000
40.900		40.900
0.019		0.011
0.961		0.961
42.381	Jul	40.397
-0.001		-0.034
-0.274		-0.274
-11.415	-16.6	-14.579
-0.453		-0.471
0.042		0.042
-70.118	-46	-45.378

06 256
-0000=3.8
-0059
-048
7972
+40.9

35.282 10.5
267
.549
18.16 11.4
205
2023

4556 12071 139
90554

35.194
32
226
65.83
1266
-5
17.61

0000-049
10019-0479

35.159
30
189
17.40
17.80
18.18
39.32
29
383

1887
150
188

6.4
+16.25
-92
47
611
4049

1722 1146
9850-9434

6.400

16.250

-92.000

-47.000

6.150

1.500

40.900

100

-0.150

0.223

0.962

16.340

42.116

40.7

41.0

1.170

789

139

-0.443

0.855

-0.271

-4.936

-11.925

11.5

11.6

0.883

0.469

0.036

-473.935

-79.014

38.0

48.5

2000

500

6

244

10 47

1584

36826

0.1258

0.15 0.12 0.13

tax 207

tax 0.15

-6

100 - 0.15
100 - 15 = 85

-16

69

100 - 0.16 = 84

1584

R.A. : 6.400
DEC. : -1.000
M. R.A. : -6.000
M. DEC. : -16.000
DISTANCE : 6.700
MODULUS : 219
D. VEL. : 25.400

q1 (U) : -0.158
q2 (U) : 0.498
q3 (U) : 0.852
dU : -33.317
U : 14.362

q1 (V) : -0.443
q2 (V) : 0.736
q3 (V) : -0.512
dV : -43.204
V : -22.464

q1 (W) : 0.883
q2 (W) : 0.458
q3 (W) : -0.105
dW : -59.864
W : -15.756

786i 1.329 1156 300 MF
45433 6 24.7 -00 15 -00 15 22
gms +38.86

4113 2335 2316 116 203
1318 1150 -0004 -000
6.14 40.13 40.01 6.14
-0.25 -0.25

8356 42.173 1900.4 -0 14 40.01 1902.1
005 178 +38
3963

2.144 40.13 48.13 1934.16
152 40.24 25.50 -51.12
42.688 39.25
42.782 2.40

1316 1149 304 6.688
42.791 40.65
177 179.4 130 40.10
177 179.4 130 40.10
-0001 -009

162 484 960 40.35 1940.40 40.10
401 748 -501 40.35 1940.40 40.10
183 460 -093 40.35 1940.40 40.10
-0258 -40 +33.4
6 -0459 -6.1 -19.4
0 -0283 -3.7 -3.6
37.2
35.1

R.A.	:	6.400	6.400
DEC.	:	-0.250	-0.250
PM. R.A.	:	-2.000	-3.000
PM. DEC.	:	-9.000	-11.000
DISTANCE	:	5.940	5.000
MODULUS	:	154	100
RAD. VEL.	:	38.800	38.800
q1 (U)	:	-0.158	-0.158
q2 (U)	:	0.487	0.487
q3 (U)	:	0.859	0.859
dU	:	-19.291	-23.163
U	:	30.350	31.007
q1 (V)	:	-0.443	-0.443
q2 (V)	:	0.742	0.742
q3 (V)	:	-0.503	-0.503
dV	:	-27.472	-32.410
V	:	-23.737	-22.743
q1 (W)	:	0.883	0.883
q2 (W)	:	0.460	0.460
q3 (W)	:	-0.099	-0.099
dW	:	-27.980	-36.522
W	:	-8.142	-7.480

2330
 45415 6 24.7 + 2000 5.8 + 1000 6.9 + 53.08
 4114
 -103154.4 +007 5.9
 -0025 +007
 -1000 +009
 -1000
 -1000

8357 43.485 1907.4 + 2 56 22.48 1408.9
 42404 2310 1322
 28 2506 43.508
 437 5426
 66.32
 43476 22.85
 18 21
 434 22.60

6.4
 + 2.95
 - 47
 + 9
 5.0
 + 53.0
 1311
 893 186
 1196 878 187 MF
 192 875 186
 22.43 1940.24
 + 17
 22.60 22.47
 + 0.28 37.5
 20.1
 -1030 +009
 -10321 0
 28.6

6.400
2.950
-47.000
3.000
5.000
100
53.000

-0.158
0.439
0.835
53.830
52.273

504

-0.443
0.769
-0.460
131.370
-11.264

157

0.983
0.465
-0.073
-176.533
-21.514

155

2324

16 28.7 - 25 0.7

+18.3

45383

-0004 -040 864

16.4

-10041 -0397

-35

-1050

444

-001 -040

-1

-40

6.0

+183

16.400
-35.000
-1.000
-40.000
5.000
150
18.300

210

-0.294
-0.077
-0.953
15.712
-14.946

0.633
0.731
-0.254
-141.048
-27.007

-0.716
0.678
0.166
-125.786
-16.896

1194 887 184
1188 884 187

6

52 09

+10.8

$\frac{-001}{-019} = 0.0526$
 $\frac{-019}{-026} = 0.7308$

15201

-0026 = 60

29705 980
185
890

10.80 91.4

$\frac{1.52}{9.28}$

590

66.70

1194 887 184

1064

26733
0

-030 -016

$\frac{-1580}{20.89}$

26664

20.89

-08263 -0132

55780

6.4

47.887

-0242

34042

-52.15

$\frac{8.07}{6.2}$

29.793

$\frac{9.3}{9.31}$

~~000~~

-33

664

9.60

$\frac{-020}{-013}$

-13

1944

9.60

88.1

4.5

29760

+10.8

118

9.60

1 1
1 0 1
N N 0 0 0
* * * * *
0 4 4 0 0
0 0 0 0 0
N 0 0 0 0

1 0 1 1
0 0 0 0 0
* * * * *
0 0 0 0 4
0 0 0 0 4
0 0 4 0 0

1 4
1 5 0 0 0
* * * * *
0 0 1 0 1
0 2 4 2 0
4 4 0 2 0

1 0
0 4
* * * * *
0 0 0 0 4
0 2 0 0 0
0 0 0 0 0

1 1 1
1 0 0

13

6.400

-3.850

-20.000

-4.000

5.350

117

149

12.000

-0.158

0.540

0.827

4.687

10.469

-0.440

0.709

-0.540

20.440

-0.237

0.883

0.453

-0.127

-92.058

-12.344

2307

06 21.3

-31 46

+14.7 (2)

44 956

1136 774 126

-10041 +006

331

~~00408~~

+0062

6.35

(335)

-31.75

-0523

-56

-048 +006

+6

6.1

+14.2

6.350
-31.750
-56.000
6.000
6.100
165
14.700

5.95

-0.147
0.865
0.479
57.692
16.621

H1.7

-0.449
0.373
-0.811
112.071
6.670

-2.5

0.881
0.334
-0.334
-189.392
-36.344

-203

1133772-128

2281

6 17.6 - 50 20

+16.7

44362

-000005.5 ✓ 700 1.44

32481 6.7

1928 1.2

1154 662 123

+1

75	44
----	----

6.3

50.

~~14~~
~~22~~
~~42~~

2275

6 16.8 - 5.2 42

- 5.4

99267

2005 ± 59 2010 ± 44

112 98.86 92.5

23 98.464 3.2 0005

8.8

10055 - 007
0 8054

(2911)

2.35

12.435
3302.7

6.3

- 52.7

1050
1010 - 1006

455.4
511
1/8 100

3540
42.60

4.6

1000000

(3801)

43.36

6.0

105354

45490
131
508

93.50

1.5

04 1174.810
95

6.8
- 3.4
93.84

6.300
-52.700
16.000
-6.000
6.000
158
-5.400

49

-0.135
0.981
0.135
-34.115
-6.160

10.4

-0.456
0.063
-0.888
-22.752
1.188

-1.6

0.880
0.184
-0.439
35.207
7.949

12.3

6.039
14.100
20.500
1.000
6.400
190.54
-12.400

1217
1003
223

-0.142
0.259
0.955
-12.161
-14.165

-153

-0.452
0.842
-0.295
-38.611
-3.699

-7.2

0.881
0.474
0.003
85.238
16.208

1211

R.A. : 6.350
DEC. : 14.100
PM. R.A. : 12.000
PM. DEC. : 4.000
DISTANCE : 7.250
MODULUS : 282
RAD. VEL. : -12.400

q1 (U) : -0.147
q2 (U) : 0.259
q3 (U) : 0.955
dU : -3.180
U : -12.735

q1 (V) : -0.449
q2 (V) : 0.842
q3 (V) : -0.297
dV : -8.823
V : 1.199

q1 (W) : 0.881
q2 (W) : 0.473
q3 (W) : 0.007
dW : 57.575
W : 16.138

14920

6

19.2 - 00

31

+5.3

0.1266

~~000~~ -157 Carly

0
-159
350
+5.3

R.A. : 6.300
DEC. : -0.500
R.A. : 0.000
DEC. : -157.000
STANCE : 3.500
MODULUS : 50
VEL. : 5.300

q1 (U) : -0.135
q2 (U) : 0.491
q3 (U) : 0.861
dU : -365.443
U : -13.755

q1 (V) : -0.456
q2 (V) : 0.740
q3 (V) : -0.494
dV : -550.921
V : -30.230

q1 (W) : 0.880
q2 (W) : 0.459
q3 (W) : -0.124
dW : -341.681
W : -17.780

44093

454175

6 57.6 48 04

4160

4007-016 4600

~~4006 9004~~

4004-014

4007-017.8

4007-15

47

-11

605

4160

R.A. : 6.300
DEC. : 18.100
PM. R.A. : 7.000
PM. DEC. : -18.000
DISTANCE : 6.500
MODULUS : 200
RAD. VEL. : 16.00

q1 (U) : -0.13
q2 (U) : 0.15
q3 (U) : 0.97
dU : -20.55
U : 11.45

f13)

q1 (V) : -0.41
q2 (V) : 0.81
q3 (V) : -0.2

dV : -87.687
V : -21.210

-284

q1 (W) : 0.880
q2 (W) : 0.475
q3 (W) : 0.025
dW : -12.751
W : -2.077

-310

44019

9.12.58

03 0 - 4 1 9

6 168 - 00 54

4380

-014 - 011 A-G-N-3

~~013-002~~

~~013 - 0024~~

-13

~~016 - 022~~

-2

~~016 - 023~~

111

~~0165 - 017~~

4380-15

~~018-001~~

-17

6-7

4380

Andrew

R.A. : 6.250
DEC. : -0.900
R.A. : -13.000
DEC. : -2.000
DISTANCE : 7.170
MODULUS : 272
VEL. : 39.000

q1 (U) : -0.124
q2 (U) : 0.497
q3 (U) : 0.859
dU : 2.923
U : 34.288

q1 (V) : -0.462
q2 (V) : 0.737
q3 (V) : -0.493
dV : 21.492
V : -13.398

q1 (W) : 0.878
q2 (W) : 0.458
q3 (W) : -0.138
dW : -58.442
W : -21.275

23.6

-27.4

36

0000 25.1
-030
-030
-030

12876 1082 307 MP
12876 1082 307 MP

5.7 givi +7.18

-9 22028
-128

43993 6 16.5
1000 50
1000 2

4004 2267
8107 27864
-008
856

640
16.487
11.325
27.814
863
+7
823

59.311
24.533
27.841
19
860

12876 1082 307 MP
12876 1082 307 MP

12876 1082 307 MP
12876 1082 307 MP

12876 1082 307 MP
12876 1082 307 MP

12876 1082 307 MP
12876 1082 307 MP

12876 1082 307 MP
12876 1082 307 MP

12876 1082 307 MP
12876 1082 307 MP

1909.5

6.05

22

22

6.05

1909.5

6.25

-9.4

-3

31.36

1934.83

-31

5.0

5.68

+7.1

38.4

28.9

1.00

4.68

4.74

1.30

6.04

+34

5.70

5.93

+34

5.54

29.4

1941.37

51.45

13.97

54.2

5.63

-11

5.74

103-031

0000 -030

-0084 -031

-1050

832

02

1253 1007

12876 1082

12876 1082

12876 1082

5118
70.73

44

6.250
-9.400
-3.000
-31.000
5.000
100
7.100

-0.124
0.619
0.776
-89.154
-3.407

-1.2

-0.462
0.656
-0.597
-89.898
-13.227

-1.0

0.878
0.403
-0.205
-75.883
-9.041

2.2

43856

12.4 06 46
16.1 406 45

-58.0

10.11.91

+003 066 406/45

+019-066

+19
-66
3.95
-58.0

R.A. : 6.250
DEC. : 6.750
l. R.A. : 19.000
l. DEC. : -66.000
STANCE : 3.950
MODULUS : 62
). VEL. : -58.000

q1 (U) : -0.124
q2 (U) : 0.378
q3 (U) : 0.917
dU : -129.444
U : -61.187

q1 (V) : -0.462
q2 (V) : 0.796
q3 (V) : -0.391
dV : -290.371
V : 4.759

q1 (W) : 0.878
q2 (W) : 0.472
q3 (W) : -0.076
dW : -69.266
W : 0.151