

7.600  
-9.400  
-80.000  
-22.800  
3.300

4571  
10.500

-0.416  
0.603  
0.681  
92.835  
11.091

-0.267  
0.635  
-0.725  
33.689  
-6.075

0.869  
0.484  
0.103  
-375.664  
-16.085

Cambridge  
RAS  
80102, 19867

28 19  
5915

267 +280

-025  
-025  
-029  
-027±1.7

920  
920  
920

15.28 2.3

104  
389

1022  
1027

1.29  
1707

P=1012  
x=355±2

920-920  
920-920  
920-920  
920-920

6739

42.219  
26  
245

15.22  
8.1  
2.18

7.45  
+28  
-40  
-26  
6.0  
+35.3

1920  
920  
920

42.214  
33  
55.00  
50.99

15.22  
15.21  
15.21

920-920  
920-920  
920-920  
920-920

64  
64

42.219  
38.101

16.32  
+4  
17.71

1920  
1920  
1920  
1920

5909  
906  
1.09  
010  
5.0

7.45e  
129.828  
-33.890  
526.000  
7.808  
158  
35.588

-8.306  
8.858  
8.921  
57.486  
41.684

-8.291  
8.946  
-8.181  
-67.189  
-17.824

8.876  
8.328  
8.845  
-138.187  
-17.832

6.5 Mem

1.174 715 565  
1.165 714 564

2861 7 26.7 +28 01 18214

59148 -19  
+14

5.02 +1.12 +105 3E  
4.54 +0.37 2A

4.17  
2.54

110 ± 1.5

+10

-0.00270 -0.0265 N30 + +36.8 Var?

-00260 -0255  
+  
16

4.54

3  
-0344

-035-024

452 365  
416 401  
515  
345

R +404

1601,2 ± 18 deg  
+3533E = +01

Shiffari RDS London

V0180 Page 104

41-48    11-11    187    614    825    158    -082    110    217  
 42-48    11-11    950    444    144    -028    404    34    217  
 45-48    11-11    -0483    640    -006    1014    34    34    217

90

1200 911

1221 927 318

59148 7 26.7 125 01 +36.8 50

65Hem

5.09

HR2861

K2M

-030 -02760  
-038 -0260  
-034 -026

W 4987  
42.285  
389

10.0  
10.23 ± 2.0  
10.23  
10.22

-023 ± 2.0  
-024  
-026

1.17 ± 1.7  
15.24  
1.24

2.3

4285 +38 4L

42.219  
+38  
2

6739  
10.22  
10.24  
10.26

170.9  
15.23  
-5  
15.18

↓

4110 -6115  
4975 -7913  
HR2861  
0100  
0110  
0110

HR2861  
-622 -02

soln

120214 205605  
1527  
17.2

1527  
17.2

929-369 469 883 -03Y-026 736.0 -012 +17 -103

032 011 013 004 133 114 +37.7 -12 +29 01

$$+1 +40 +6$$

$$\boxed{+38 -13 -5}$$

$$+5 +43 +3$$

$$\boxed{+36 -15 -10}$$

$$+7 +45 +1$$

$$\boxed{+40 -16 -13}$$

007

008

01

103

get  
+77  
6  
N  
-50.5  
416

max limit  
L limit

head + head +

long 1000 1000

get + 8-0 5-0 10.5.0 00

get 100 100 100

pin

111 111 111  
812 812 811  
get 812 811

11

100 100

100 100

press

100 100



~~7.400~~  
-50.900  
11.000  
6.000  
5.000  
100  
7.000

4.7

87.10

-0.375  
0.919  
0.123  
10.785  
2.042

+2.2

-0.299  
0.006  
-0.354  
-0.641  
-0.408

-8.3

0.077  
0.395  
-0.272  
40.090  
1.000

+1.4

1.432 765 568  
839 (X)

60  
572

Roman

2864

7

27.0  
28.0

+12 07

152 #1

10024

59294

4.55 +1.29 +1.37 5

7.03 +0.46 5 (2)

4.57 +1.28 +1.29 E(2)

3.96 +0.44 A(2)

4.58 +1.25 +1.35 A

4.00 +0.45

4.55 +1.28 +1.35

362 5 (00)

+00004 +14  
-0206 F104 -15.4 a

~~00004~~  
~~00000~~  
+00000

+001 -019  
+9

+00006

+002 -019

300  
15  
4.50

395 5  
435

360  
300  
60  
465

+18  
-9

2841  
10015  
5814

7

247

128

91

454

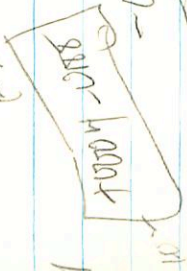
12271

Remun

h78e > 27.0 +12 07 -574

h78e

h9255



W550

-0000 11000 -0220

-0000 6000 -0220

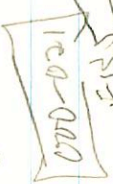
1.289

1.291 1.52 (230)

1.315 1.007 380 MF

1.310 1.024 379

-0013



747

0116 +12-1

0

-21

4981

8671

0197

0078

+3.24

0106

498

4487

9937

2

4687

867

4487

0110

4687

867

h514

h514

h514

h514

h514

R.A. : 7.458  
DEC. : 12.100  
. R.A. : 1.000  
. DEC. : -19.000  
STANCE : 5.920  
ODULUS : 153  
. VEL. : -15.400

q1 (U) : -0.386  
q2 (U) : 0.308  
q3 (U) : 0.870  
dU : -29.533  
U : -17.905

q1 (V) : -0.291  
q2 (V) : 0.854  
q3 (V) : -0.431  
dV : -78.259  
V : -5.310

q1 (W) : 0.876  
q2 (W) : 0.419  
q3 (W) : 0.240  
dW : -33.700  
W : -8.840

22/19  
2884  
WR (540)  
587 612 883 505  
588 609 411

60060  
1215 876 165  
859 163  
-0032 +047

1576  
1521  
-0257  
-021051

1155 866  
1181 913 164

46.920  
16  
936

28.8 -52 83

46895  
222  
47.117

69.25 44.91  
-16  
45.07

38.86  
9.08  
46.44  
62  
47.04  
+04  
47.00

46.40  
-40  
46.00

076 321 1207 861 117 085-31-09

4040  
+047  
+047 +2602  
+053 #50

4560 927  
-304  
45.64

7.5  
53.55  
-35  
+51  
5.0  
+26.2

RT

7.500  
52.553  
37.686  
31.888  
5.668  
1.180  
26.298

475  
514  
2198

58200

-0.396  
0.914  
8.891  
253.839  
26.464

+25.6

-8.283  
-8.827  
-8.359  
21.953  
22.364

-23.1

8.874  
8.485  
-8.269  
0.892  
8.873

-6.2

$$v_0 = 580$$
$$M_r = 145$$

617 383 508  
518 385

$$v = 225x$$
$$192$$

192

25. -52 32

ELI-5-016  
0109

-0243 ± 6.5 ± 0.53 ± 53

9511.55

46895 983

1033  
1047  
1020

1022  
1022 19660 92.7

907 2001 29

4964

1020

988

1878

911

10835  
36499

1199 888

1020

988

1878

6125

47639 8068 1144

1199 888

1020

988

1878

46.414 44.414  
x 3 147

883

1020

988

1878

11692.0 384

4494

-1033 + 061

114  
956

46

1033 + 061

1001-28-1066

1020

1033 + 061



54878

298

+ 23 00

6.14 100

11.5

641122+

1018-106

8.7

6482

+2.98

158 986 931 984

10

-10 239

7

PPM

1448 0793 0195

800-000

0110

7.5

-10295 -0125

-28

+23

9620

-8

-33

110-011

MS

-11

144

5.35

846055005 P8V

144

Ⓟ

R.A. : 7.500  
DEC. : 23.000  
M. R.A. : -28.000  
M. DEC. : -8.000  
DISTANCE : 5.640  
MODULUS : 134  
RAD. VEL. : 29.800

q1 (U) : -0.396  
q2 (U) : 0.140  
q3 (U) : 0.908  
dU : 43.053  
U : 32.826

q1 (V) : -0.283  
q2 (V) : 0.922  
q3 (V) : -0.266  
dV : -0.389  
V : -7.968

q1 (W) : 0.874  
q2 (W) : 0.362  
q3 (W) : 0.325  
dW : -120.456  
W : -6.482

340

-80

-98

713 -00 11

0880

7 285 -00 25

59980

0.1750  
180 -687 447

08995

601153  
601153

51277 410  
3781 958

08995

0880

~~434~~  
~~840~~

53.200 67.16

0550

36.70

$\frac{14}{217}$

4

~~0495~~  
36.70

150-051

53.216 (64.37)

36.80

0.27  
0.50  
4.54  
8.4

36.8

R.A. : 7.500  
DEC. : -0.400  
PM. R.A. : -27.000  
PM. DEC. : -50.000  
DISTANCE : 4.950  
MODULUS : 98  
RAD. VEL. : 28.000

q1 (U) : -0.396  
q2 (U) : 0.489  
q3 (U) : 0.777  
dU : -65.224  
U : 15.390

q1 (V) : -0.283  
q2 (V) : 0.740  
q3 (V) : -0.610  
dV : -139.260  
V : -30.684

q1 (W) : 0.874  
q2 (W) : 0.461  
q3 (W) : 0.155  
dW : -221.133  
W : -17.277

74 Dup

602265

-20.2.009

28.5 -20 31  
30.6 -20 41

28.5

7

1504-910  
-009 +0504

~~5804~~  
-009

1

2917

07 323 -39 48 +80.2V

⊕

+28  
+36

60686

-0034 +042 flux

-00336 +043

17.5

-34.8

-46

+44

6.0

+30

-0387

-035 +044

3758 -3754

6594 9269

7.500  
-39.800  
-46.000  
44.000  
6.000  
158  
30.000

49

-0.396  
0.871  
0.290  
248.819  
48.016

140

-0.263  
0.185  
-0.941  
85.979  
-14.687

173

0.874  
0.455  
-0.173  
-51.521  
-13.362

147

2415

60803

$\overline{0075} + 023$   
 $\overline{0074} + 0234$

1140  
 $\overline{115} + 025$

33 85.0  $\overline{0076}$  58 26.5  
 $\overline{0074}$  +019  
33.9 +05 58 +027 +3.6  
 $\overline{0075} \pm 33$  +028  $\pm 3.2$

58.078 12.4  
 $\overline{212}$   
 $\overline{300}$

26.1270  
 $\overline{34}$   
 $\overline{25.78}$

54.877  $\overline{65.70}$  27.49  
 $\overline{29}$   $\overline{74}$   
 $\overline{906}$   $\overline{.85}$

54882  $\overline{69.74}$  27.05  
 $\overline{27}$   $\overline{7}$   
 $\overline{879}$   $\overline{26.98}$   
2.55  
+6  
115  
25  
2.0  
+3.6



~~7.550~~

67000

115.000

25.000

2.000

25.00

3.600

-8.406

0.400

0.822

-172.754

-1.361

-8.275

0.204

-8.327

-53.768

-3.248

0.072

0.440

0.217

524.592

13.957

2918  
60816

28.4 -28 59

~~-007~~  
10.5  
~~-0185~~  
-0107 ± 3.9

+011  
-001  
+004 ± 3.7

1263 1037 351

1283 1050 355 MF

1274 1044 253

1262 1026 (18)

28.544 10.2

27.49 8.3

~~4320~~

~~-38~~

26.020

27.87

25.320

(64.17)

27.94

20

27.96

340

25.716 (89.67)

27.48

7.5

~~647~~

27.48

7.9

647

27.48

7.9

-0338

-030 +005

-157

+8

5.0

+10.5

1262 1034

60816 7 28.4 -78 59 5.4 145 110.5 6

5006 474

10055 466  
Σ men 4266

-0104 12 7009 130

-0084 3.7

-0092

46 11 -025  
13 8

3890  
23895  
81411

125

-396 958 -326

-283 -451 -846

874 243 -422

+0470 +0365

+0335 -0192 +0143 +1.7 -8.9

-1039 +0103 -936 -11.8 -4.4

+0835 110.5 -3.4

A

7.500  
-79.000  
-157.000  
8.000  
5.000  
100  
10.500  
  
-0.396  
0.859  
-0.326  
83.772  
5.457  
  
-0.283  
-8.451  
-0.846  
23.858  
-6.591  
  
0.874  
0.243  
-0.422  
-114.845  
-15.911

61248

7 348

-52 25

M0

62.08

6C10206

66.16(5)

W5079

4.96 4143

63.16(4)

1802

493 516

HR2934

+016 -026

+017 -019

+017 -020

Right Search on  
Conquest Point.

+017

-020

7.6

+0209

-0171

-52.4

39

-16

0193

5.0

6510 4(10)

024-016

42.0

+02174.0  
 +02016  
 +0218  
 -022  
 -024  
 -011

-792 660

25488 1906.8

$\frac{145}{-073}$

25465  
 -24  
 439

$\frac{430}{960}$   
 +065

25556  
 3  
 589

1782  
 -11  
 (1797)

40.4

(64.52)

17.94  
 +1.24  
 16.70

-52 25 19.94 1902.3

17.17  
 +5  
 17.12

$\frac{17.69}{1.99}$

1538.81

$\frac{47.3}{44.9}$   
 44.8

321191 256

18.26

12

11

18.14 19.5.67

25.532  
 11  
 521

7.600  
~~-52.400~~  
39.000  
-16.000  
5.000  
100  
62.000

-0.416  
0.905  
0.087  
-115.587  
-6.181

-0.267  
-0.030  
-0.963  
-27.003  
-62.500

0.069  
0.424  
-0.254  
65.002  
-9.179



HR 2934

7 34.4 -52 25

+62.06

6610204

4.93 +1.43 915

+61.15) L

H08124F

+63.14) C

Y1502

n(10.5)

+016 -02666

+017 -0194

+013 -0212

+015 -022

-1 -62 -14 015

+1 -60 -14 02

+2 -60 -14 025

620Y(10)



-752 618

2541 <sup>-10 +13</sup>  
<sub>-4 -1</sub>

1262 987 244  
07 350 -55 47  
258 984 243

007  
+009  
+006 ± 5.9  
+21.9

61394  
1251 980 242 ✓  
1246 978 241

87.499  
34  
59.033  
26.142  
31.912  
58.054  
9  
237  
631

0007 ± 7.8  
000  
0015  
30.27 95.1  
33  
60

-0007 +007  
00036 +0098

1030  
+001 +011

2745

9.13  
20.70  
24.83  
52  
30.35  
+4  
31

7.6  
55.8  
2  
11  
6.0  
+21.9

1.262 987  
04 1246 978  
935

57.960  
117  
977  
3810  
29.190  
-48  
30.30

1.250 980

7.600  
-55.600  
2.000  
11.000  
6.000  
158.49  
21.900

-0.416  
0.989  
0.033  
45.161  
7.878

-0.267  
-0.088  
-0.960  
-5.985  
-21.967

0.869  
0.408  
-0.279  
25.915  
-2.003

1002 + 1004

1.288 485 582.1  
~~388 485 582.1~~  
388.9 381

1002  
1004  
1003 + 1004  
1001 + 1002 + 1003 + 1004

2942

61404

1002 + 1004 = 2006

54.212 1.2 - 10027

48.12 55.5

1002-6  
1002-7

1002  
354  
24

-50  
4862

10026 + 1003  
10026 + 1003

54.144  
168  
47.66

6460

10020  
10020  
10020  
10020

58.437  
55.222  
54.254

2846

254  
2150  
4721

7.6  
-85.15

1.232 93 216

212  
14  
282

48.12  
47.12

47.12  
47.12

-37  
+11  
6.0  
+313

1289 934

54.165

55.16

48.09

6.0

03 1225 927

10  
184

14  
47.93

+313

04 1225 925

7.600

-35.150

-37.000

15.000

6.000

150

31.300

49

600

17375

-0.416

0.839

0.351

119.312

29.904

+31.7

-0.267

0.257

-0.929

56.525

-20.117

-19.2

0.869

0.480

-0.117

-90.490

-18.088

-19.4

2441

7 36.0 -27 54 +52.0

6145-3

-0017 +052 54

~~1024~~ +0525

-0201

450 910  
-016 054

76

-374

~~20~~

54

6.0

+520

7.600  
-37.900  
-20.000  
54.000  
6.000  
158  
52.000

-0.416  
0.855  
0.311  
249.873  
55.754

-0.267  
3.212  
-0.940  
74.160  
-37.135

0.859  
0.474  
-0.140  
56.353  
1.650

2453

38.0

+13 53

+5.2

6/630

1.203 1146 266

1.340 1.172 0.273 M1

1.322 1159 264

1.319 1158 264

-00015 -0101 70  
+00025 -0088

+0036

+004-007

7/6

+13.6

4

7

6.0

5.2



~~7.000~~  
13.900  
4.000  
-7.000  
6.000  
158.49  
5.200

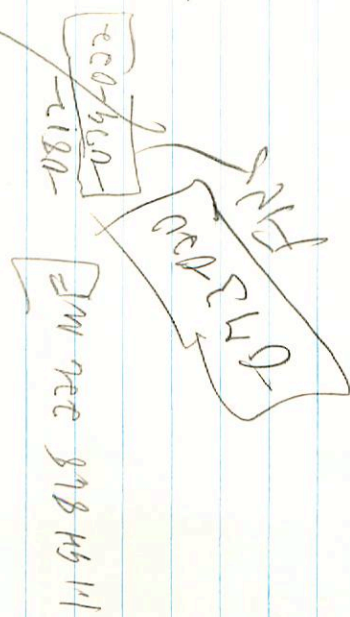
-0.416  
0.284  
0.864  
-17.096  
1.782

-0.267  
0.870  
-0.415  
-33.772  
-7.511

0.869  
0.403  
0.286  
2.616  
1.902

2470  
61935 ✓  
389 - 09 26 + 10.5

W350  
0520  
1h40 - 0230  
- 0054 - 0441



76	h's	ae	3.3	+10.5
22	ae	349		
	ae	+10.5		

R.A. : 7.650  
DEC. : -9.450  
PM. R.A. : -74.000  
PM. DEC. : -20.000  
DISTANCE : 3.490  
MODULUS : 50  
RAD. VEL. : 10.500

q1 (U) : -0.426  
q2 (U) : 0.603  
q3 (U) : 0.675  
dU : 90.356  
U : 11.593

q1 (V) : -0.259  
q2 (V) : 0.633  
q3 (V) : -0.729  
dV : 29.537  
V : -6.183

q1 (W) : 0.867  
q2 (W) : 0.48  
q3 (W) : 0.11  
dW : -345.92  
W : -16.06

62009

7 39.7 -77 59

40.88 57.8

-77.519

+76

+008555

~~97.8~~

1872

+0081+070

40.966 10

3137 56.4

+0065

+010 40.2

84+

+72

4.2

138.4

R.A. : 7.600  
DEC. : -78.000  
M. R.A. : 48.000  
M. DEC. : 42.000  
DISTANCE : 4.200  
MODULUS : 69  
AD. VEL. : 38.400

q1 (U) : -0.416  
q2 (U) : 0.854  
q3 (U) : -0.313  
dU : 150.280  
U : -1.617

q1 (V) : -0.267  
q2 (V) : -0.444  
q3 (V) : -0.856  
dV : -100.948  
V : -39.836

q1 (W) : 0.869  
q2 (W) : 0.273  
q3 (W) : -0.413  
dW : 95.371  
W : -9.244

A056321

77X 800

7 41.4 t24 31 t20.6c

2955

3.57 + 0.83 + 0.68 6814

-027 -0546c  
 -033 -058N  
 -031 -054F  
 -030 -055

62345

5149

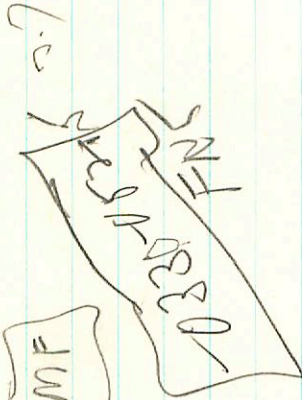
10403

8m7"

83

-0024 -058 N30  
 -0022 ± 1.0 -054 ± 0.9 6c → N30

1157 800 199 MF



36.3  
 -5  
 2.80  
 t20.6

2988 -58170 (601)  
 -5543 -136 (683)  
 (680)

R.A. : 7.700  
 DEC. : 24.500  
 PM. R.A. : -36.300  
 PM. DEC. : -52.000  
 DISTANCE : 2.860  
 MODULUS : 37  
 AD. VEL. : 20.600

q1 (U) : -0.436  
 q2 (U) : 0.125  
 q3 (U) : 0.891  
 dU : 37.413  
 U : 19.753

q1 (V) : -0.251  
 q2 (V) : 0.934  
 q3 (V) : -0.254  
 dV : -190.955  
 V : -12.362

q1 (W) : 0.864  
 q2 (W) : 0.334  
 q3 (W) : 0.376  
 dW : -217.723  
 W : -0.381

904-428 465 910 -030-055 +20.6-023 +9 -237  
 027 021 013 090 051 161 +18.7-8 +17  
 -4 +25 -3  
 02

$-0016 \pm 13.0$   
 $-0003$   
 $+12$   
 $-0007$   
 $1005$

$-047 \pm 10.0$   
 $-014$   
 $59$   
 $6.5$   
 $123$   
 $-020$   
 $-022$

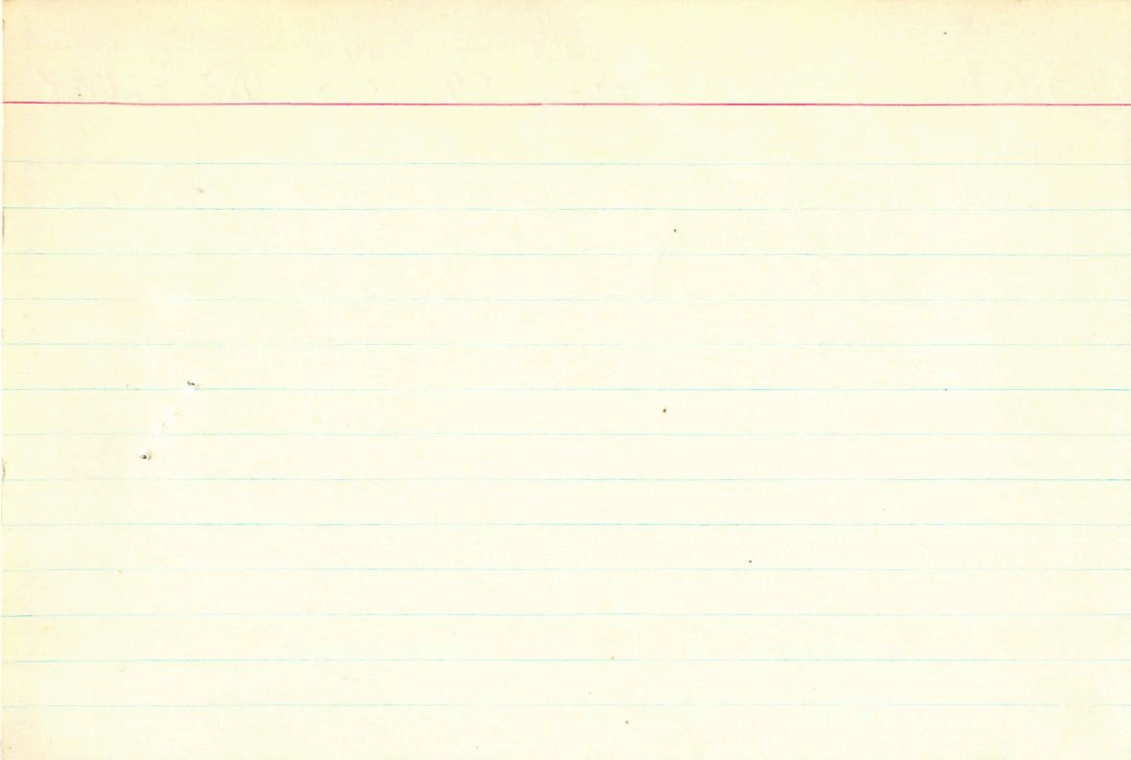
62407 7 41.4 198.4 712 56 50.40 1903.4  
 5150

26.535  
 007  
602  
 7.7  
 +13

26.562  
 27  
589  
 $-0005 -0014$   
 $-0005 -00174$   
 $-0000$   
 $-0007 0000$

26.578  
 +24  
44  
 603  
 1193  
5965  
 -0006  
 28.8  
 1009  
 51.35  
 1124  
 2000  
 1130  
 51.80  
 +  
51.88  
 52.10  
-149  
 37.2  
 33.8





2487

62407

7 415

+12 59

+261

~~7.700~~  
~~13.000~~  
-7.000  
0.000  
6.000  
158  
26.100

-0.436  
0.300  
0.048  
14.102  
24.374

-0.251  
0.865  
-0.435  
8.110  
-10.075

0.864  
0.403  
0.302  
-27.939  
3.449

2445

7 41.5

38 48

6-5/8 11 -11

6265

1184 800 236

1140 810 227 (9)

1128 800 234

1184 800

47.979 (64.70)

2.95

1005 5800

47.18

7.7

1007

10045

47.945

2.84

-20

100167

555

-26

3

1014

1016-103

47497 25.86

3.13

6

1016  
1017  
103

055 1016 240 117 800 146 090 105 117

~~17.300~~  
-38.750  
-20.000  
-3.000  
6.000  
158.49  
-0.100  
  
-0.436  
0.852  
0.289  
20.132  
3.162  
  
-0.251  
0.194  
-0.948  
15.795  
2.598  
  
0.864  
0.486  
-0.129  
-70.806  
-11.209

1/67  
793  
282

$-0078$   
 $-559$   
 $567$   
 $147$   
 $-0068 \pm 4.8$   
 $-0080$   
 $-0073.6$   
 $-5666-501$

$626.44$   
 $-0070$   
 $7558$   
 $41.4$   
 $-45$   
 $03$   
 $57.06$   
 $6512$   
 $67(5)$

$5218$   
 $-074$   
 $-558$   
 $24.294$   
 $1907.1$   
 $201^2 - 45$   
 $2$   
 $43.75$   
 $1899.1$

$-00700$   
 $661$   
 $292$   
 $586$   
 $-420 + 882 + 147$   
 $-256 + 041 - 962$   
 $+ 866 + 444 - 187$   
 $+ 28.66$   
 $15.09$

$-00680$   
 $-5586$   
 $-0721$   
 $24.329$   
 $-120$   
 $317$   
 $644$   
 $5436$   
 $74$   
 $523$

$24125$   
 $134$   
 $54.8$   
 $4.206$   
 $40.2$   
 $46.03$   
 $1955.05$

$5944$   
 $-1746$   
 $5603$   
 $0$   
 $-17$   
 $46.2$   
 $41.90$   
 $-44.1 + 56.4 = -38.5$   
 $-3.1 - 27.1 = -30.2$   
 $-30.8 + 5.3 = -36.1$

$-563 \pm 3.4$   
 $-5666-501$

$+32.4 \pm 10$   
 $+22.56(4)$

$7.7$   
 $-420$   
 $-64$   
 $559$   
 $4456$   
 $20$   
 $47.3$   
 $47.4$

$37.62$   
 $1939.5$   
 $+1$   
 $37.61$   
 $6361$

$46.03$   
 $-17$   
 $46.2$   
 $41.90$

$-326.81$

$1-068$   
 $729$   
 $029$   
 $MP$

6

7.700

-45.050

-95.000

-557.000

2.000

25.17

20.000

-0.495

0.079

0.194

-2179.717

-43.222

-0.251

0.008

-0.564

-152.351

-30.619

0.364

0.459

-0.182

-1516.421

-43.165

62849

4.2069

61048

379 - 07 49  
418 - 09 56

~ 00068.3

+162

11.70 39

67461 415 ✓  
19119 000 ✓

779  
541

22  
884

51036 67.10 8.35

14  
350

0022 +176  
0024 +187

6510

51026  
27  
353

7.39  
11  
739

0023 +107

00256 +155

-36  
182  
338  
485

-0383

-036182



R.A. : 7.700  
DEC. : -4.950  
PM. R.A. : -36.000  
PM. DEC. : 182.000  
DISTANCE : 3.300  
MODULUS : 46  
RAD. VEL. : 85.000

q1 (U) : -0.436  
q2 (U) : 0.547  
q3 (U) : 0.714  
dU : 546.230  
U : 85.687

q1 (V) : -0.251  
q2 (V) : 0.688  
q3 (V) : -0.681  
dV : 636.547  
V : -28.750

q1 (W) : 0.864  
q2 (W) : 0.476  
q3 (W) : 0.163  
dW : 263.757  
W : 25.912

PM 912 6ret 1ce1

20329

6C10465

W5179

602287

3014

7 43.6 -0.6 39

5.48 + 1.38 + 1.67 125210R

w(+0.6)

812-218  
w/s  
815-3258

918 302/ 6581

55-27-7-010-8-8-19-  
24-89-  
19-19-

→ 15550-15550+  
→ 38511-115±8 W  
→ 960-098

10034 -094

100313 -0951

0466

7460-094

917  
-6.66

44

9.5  
44

922  
-322

+0037 ± 4.3 -095 ± 4.0

+0034 +0034 +0034 -092 ± 0.91 -098

900-436 -115 953 +052 -055 -32.5 011 74 -460

-047 -010 -023 -005 -155 -155 -32.3 44 -29

35.377 1505.6 -6 38 53.84 146.7 -2-45-44 0051

-164  
-213  
35896  
6702  
5533  
49.73

~~-61-46-57~~

419  
32.3  
55.10 14.99 1935.43

21.977  
13.340  
35.313  
312  
+20  
338  
44.5  
35.400  
17  
48.7  
51.47  
-36.48  
52.67  
+2.7  
52.89  
-2.86

8.72  
37.9

31.2

53.05  
+25  
52.74  
1940.29

350295  
+20  
315

324  
+113

7.700  
-6.650  
49.000  
-94.000  
5.000  
100  
-32.000

-0.436  
0.568  
0.698  
-353.784  
-57.708

-0.251  
0.668  
-0.701  
-355.481  
-13.127

0.864  
0.481  
0.149  
-14.802  
-6.242

1.535 1.278 277 M<sup>2</sup>  
1783017

-0013 ± 2.4  
-0015  
7 - 43.5  
-37

-001 ± 2.2  
+002  
+003  
51  
M2 + 7.12

-0010  
3.61 + 1.74  
Case

63032

5177

1046

28.350

1908.0

-37

50

46.57

-015 -001 GC  
-003 -003 M30

-024 -004 GC +  
-014 -004

055  
405

-0013 +003  
+0027 +0027

46.77

194088

28.335  
334

40.6  
-0150  
-011 +005

9713

334

20264

- .061

28320

46.20

46.42  
+110

48.6  
46.8

28.320

+14  
234

46.17

1986.25

46.29



40.88

<sup>5</sup>  
-.027 .021

+ 899 - 438 .614 790 - 0.14 - .004 + 17.1002 - 10 - 0.14  
- 0.13 - .002 .006 - .001 - 0.57 0.19 + 13.5 6 + 12

-11 + 14 - 11 12

[+6 - 19 + 20]

-9 + 13 - 11 0.19

[+6 - 18 + 1]

56  
722

3011 1019 560 014 James

7 43.2

-34 @ 4

1.657  
1.671  
1.680

+101.5

-0236±42  
1.663 ±3.9

43.022-10.6-0.246

23.50 5.5

1.621

-67.35

$\frac{980}{957}$

$\frac{1.621}{1.625}$

0  
0240 1674

42.514  
 $\frac{1.621}{1.625}$

44.25  
 $\frac{1.621}{1.625}$

2.7

34.1

1.6742

$\frac{1.621}{1.625}$

44.40

35.5

1.681

46.224 (40.8)

34.56

16.81

1.68

$\frac{1.621}{1.625}$

2.7

10

1.684

$\frac{1.621}{1.625}$

34.35

101.8

1.682

45.863

13.45

1.681

11.4

11.58

10.5

101.8

1.68

$\frac{1.621}{1.625}$

11.4

101.8

7.700  
-34.100  
-355.000  
1681.000  
1.000  
16  
101.500

-0.436  
0.826  
0.357  
7188.265  
150.195

-0.251  
0.270  
-0.930  
2498.938  
-54.757

0.864  
0.495  
-0.090  
2741.221  
34.360



63077 3018 7 437 -24 25 202

1403018

5.38 372 122 2.59 5.38 + 0.56 - 0.095 ③

372 122 362 2.59

372 122 862 2.59

480  
445  
200

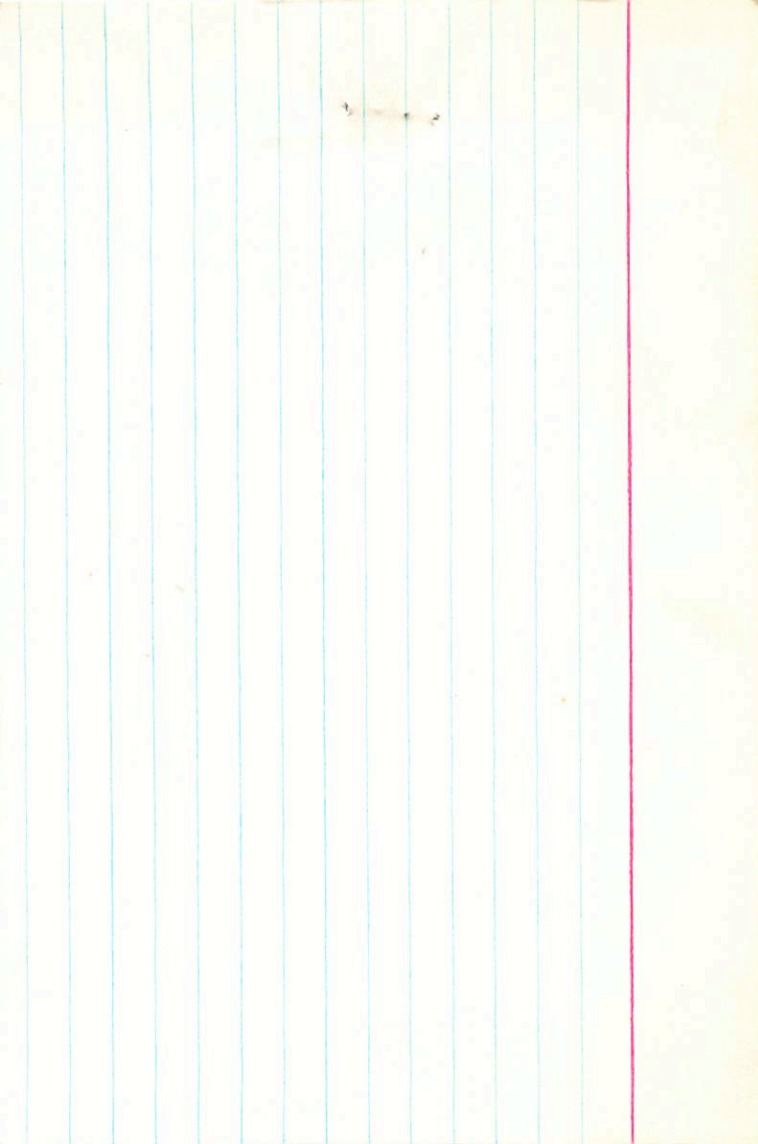
-0235 + 1674 sky

237 258

-292

-288 + 1676 3018

1.2



63077

7 43.7 -34 05 60 E

HN3018

G-61047B

5.28 + 0.56 - 0.085 2595 -  
5.33 + 575 (-05) L

<sup>224</sup>

✓ [m] 219 + 56

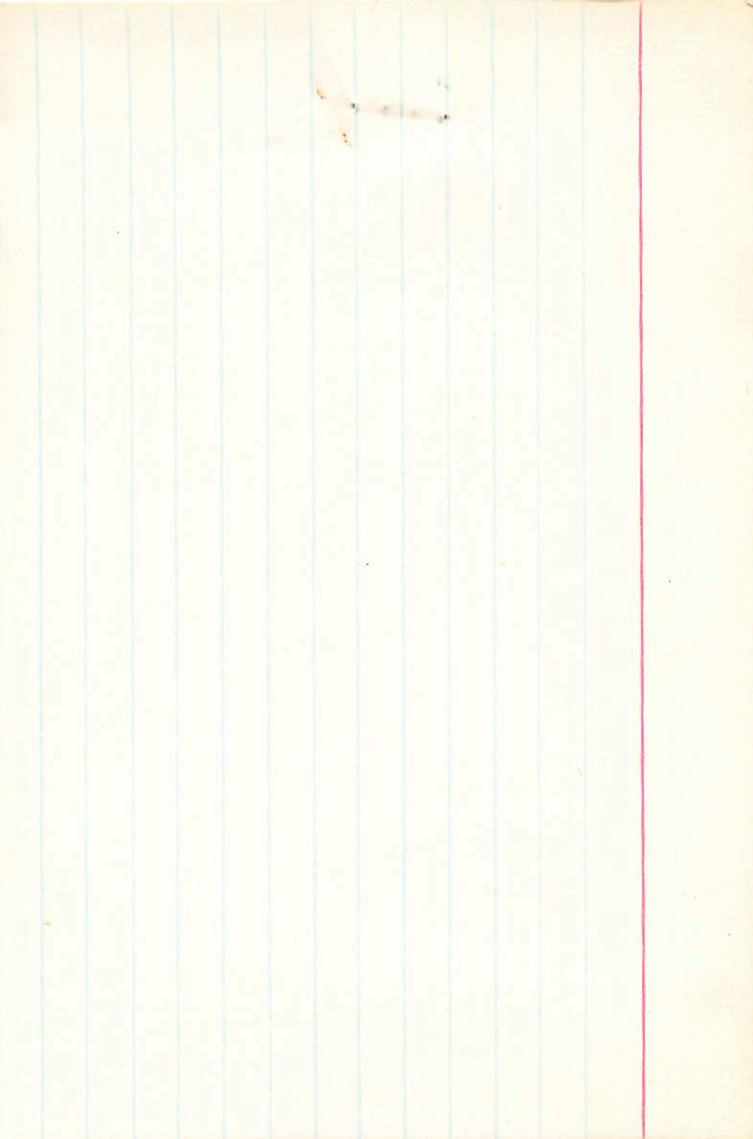
.376 .151 .247 2.548 4,3,4,10

<sup>22</sup>  
<sup>97</sup>  
3

[c] 172 ✓

1.20 + 158.8 - 52.8 + 42.9

+ 7057 + 2427 + 2936



63077 3018

> 43.7 -34 c4 d60

102.6  
104  
35

+101.52

6-10473

5.33 10.52 egg (9")

+101.648

W5181

5.36 10.57 Cape

+101.06(3)

71841

12  
-0234 + 1.680 H30

+108.020.4 S(14)

-3304113

101.53 S60

HN3018

-293 +1.663 G-C

+160-52 +44 .057

+130-68 131 .027

5.38 + 0.56 - 0.85 (2)

5.09 + 0.24 (3)

0.5  
-292 + 1.647

5.5  
6.5

544(12)

656(4)

577

5.5  
6.5

-0236 ± 4.2 +1.643 ± 3.9

-0198 +1.678

-0235 +1.674 Stacy L SDC

43.022 1910.6 -34 4 23.90 1909.5

930  
952  
-67.35  
31.25

43.224

(37.4)

4 39.56 +21 1940.56

39.35

45.96

223  
211  
-12

53.38  
26.66  
+64.59

48.10  
38.15

42.883

13.95

155.40

13  
896

13.95

$13.774$   $(14.35)$   $52.66$   
 $+0036 \pm 11.3$   $-04858.7$   
 $+0012$   $6.2$   $-003$   
 $+13$   $30$   $K1$   $-57.36$

63352

$13.789$   $(14.35)$   
 $52.26$

5201

10539

$93.839$   $52.15$   $19083$   $+13$   $29$   $50.41$   $1901.7$

$\frac{150}{689}$

~~$26$~~   
 ~~$10018$~~   ~~$-0005$~~   
 ~~$10017$~~   ~~$-0003$~~   
 $+0251$

$2.32$   
 $\frac{2.32}{52.73}$

13.683

$\frac{27}{710}$   $\frac{22}{33}$   
 $+0$

$28.4$

$52.64$   $1933.2$   
 $\frac{11}{52.79}$

$52.38$   $1940.11$   
 $+7$

$13.706$   $\frac{27}{733}$

0295

$\frac{3.3}{26.7}$

1091 216

1292

$27$   
 $-2$   
 $51$   
 $-573$

$\frac{24}{52.62}$   
 $-11$

$35.0$

1.326 1119 224 MF

~~7.7K~~  
~~413.5~~  
~~81~~  
~~710~~  
~~610~~  
~~47.2~~

7.750  
13.500  
31.000  
-18.000  
6.000  
158 *44*  
-57.300  
  
-0.446  
0.294  
0.845  
-77.691  
-60.743  
  
-0.243  
0.869  
-0.431  
-75.881  
12.660  
  
0.861  
0.397  
0.316  
104.249  
-1.600

R.A. : 7.750  
DEC. : 13.500  
PM. R.A. : 27.000  
PM. DEC. : -2.000  
DISTANCE : 5.100  
MODULUS : 105  
RAD. VEL. : -57.300  
  
q1 (U) : -0.446  
q2 (U) : 0.294  
q3 (U) : 0.845  
dU : -58.304  
U : -54.535  
  
q1 (V) : -0.243  
q2 (V) : 0.869  
q3 (V) : -0.431  
dV : -38.447  
V : 20.660  
  
q1 (W) : 0.861  
q2 (W) : 0.397  
q3 (W) : 0.316  
dW : 103.435  
W : -7.292



1.173 283  
1162 770  
200 + 11 23  
-6  
13

1.173 283 186  
-65 57  
+1.6 (2)

63513

04 1.16 974  
038 101 715  
-0041  
0028853  
-0035  
+033  
+034 ± 48  
+034

252112- 96.0 -0035  
151  
263  
59.92 95.2

-003 +035  
-0028 +0342

2.14  
3.06

18.428 (31.20)

20.57

-0171  
-013 +036  
98.1

40.18

7.75

25190  
11.3

0.75  
15

45.9

25.143  
195  
84.77  
-7  
59.84

0.90

732

0.20  
0.59

1735

98.2

5.7

28.11-10  
-67  
0.76

59.70

11.6

0401  
0015  
116 44  
50

-53

11.6

00.73 960 -35.29  
2705 +9388

7.750  
-65.950  
-32.000  
38.000  
5.700  
138  
1.600

04

-0.446  
0.985  
-0.135  
186.946  
25.598

272

-0.243  
-0.264  
-0.933  
-32.619  
-5.996

-1613

0.861  
0.984  
-0.233  
15.858  
1.657

186

-0022 ± 2.8  
-0028

+015 ± 2.7  
+014

3042

63660 7 46.9 -24 47 5.3 963 +1.68

5207

10556 55.643 1900.7 -24 47 9.77 1858.0

108  
751

52.580

3.050

55.633

0.23

+1  
650

55.651

6  
644

36.4

26.02

-43.35

9.37

-1.02

70.39

+37

10.02

10.24 1939.43

+26

9.98

10.00

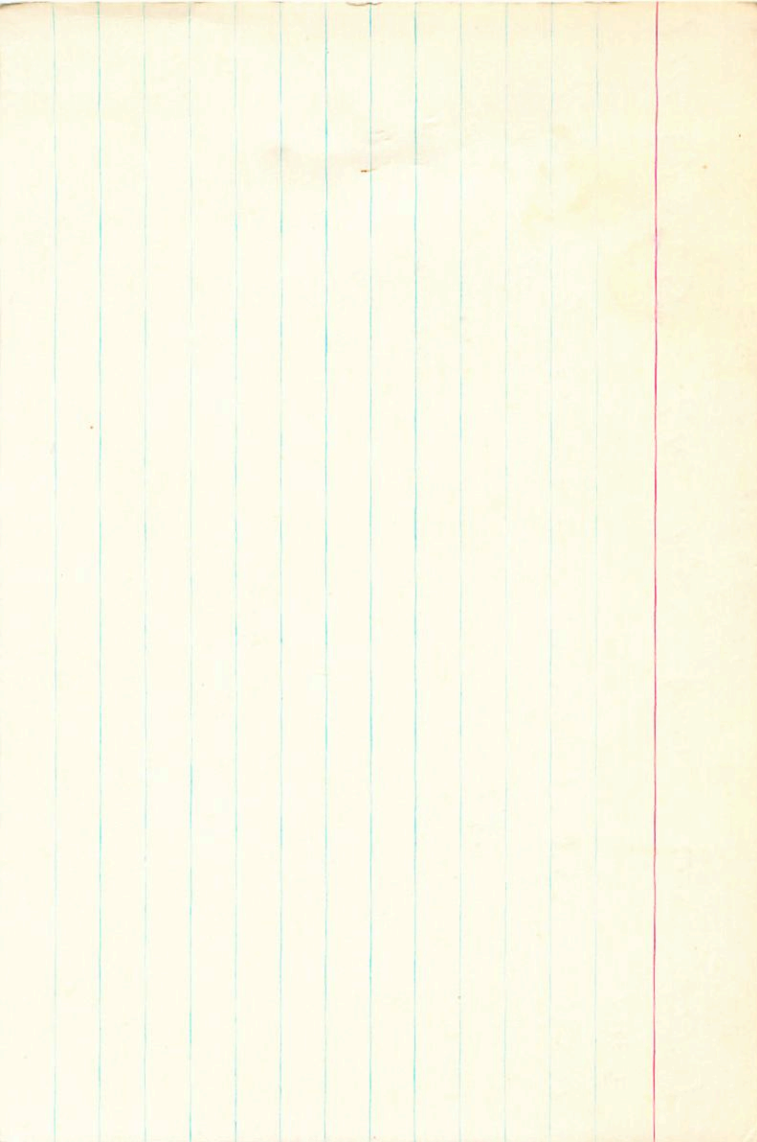
+0.55

193470

74.13

37.1

39.1



3043

7 464

-24

48

+16

63660

55643 0.70023

9.77980

-241022

108

75

-00255 +0145

707

6624

10558

7.75

-00272 +0151

15

6624

9.87

-248

-0370

-034 +017

-27  
+17

1.066 663 131 mF

05657

3943

10.24

2.3

-5

6446

24

0

55.507

64.96

9.63

-9

583

9.72

7.800

-24.800

-37.000

17.000

2.300

2884

0.000

-0.456

0.752

0.475

133.210

3.842

-0.285

0.414

-0.890

70.689

2.039

0.859

0.513

0.012

-95.385

-2.751

63653

7

449 -08 08  
473 -08 11

-72205

ND66

~~610-010~~  
610-010  
*(Velocity)*

18459 7185 50595  
18481  $\frac{17}{273}$  5362

$\boxed{-015-015}$

18480 *(6447)* 53481

5330

-15  
~~-205~~  
+350

R.A. : 7.800  
DEC. : -8.200  
P.M. R.A. : -15.000  
P.M. DEC. : -5.000  
DISTANCE : 6.050  
MODULUS : 162  
D. VEL. : 35.000

q1 (U) : -0.456  
q2 (U) : 0.585  
q3 (U) : 0.671  
dU : 18.215  
U : 26.426

q1 (V) : -0.235  
q2 (V) : 0.648  
q3 (V) : -0.725  
dV : 1.154  
V : -25.179

q1 (W) : 0.859  
q2 (W) : 0.488  
q3 (W) : 0.158  
dW : -71.979  
W : -6.141



3047  
63752

7 47.8  
-1005  
-9

+002±3.1  
-002  
-001  
8.8

9123 -7.07

5218

273

7.5  
-905

10578

46.407

-9

3

21.45

1905.9

-0.7  
5.0  
-7.0

415

65.52

21.54

7.5  
-905

46.371

46264

21.71

7.5  
-905

M.F.  
1.22-346

387

389

21.65

7.5  
-905

34.261

1164

30.3

7.5  
-905

12.092

388

35.60

7.5  
-905

46.353

389

44.72

7.5  
-905

349

20.32

21.11

7.5  
-905

1.54

21.48

51.13

7.5  
-905

36

21.19

194.67

7.5  
-905

17.576

21.19

51.13

7.5  
-905

26.44

21.19

194.67

7.5  
-905

413

21.19

194.67

7.5  
-905

7.800  
-9.050  
-12.000  
0.000  
5.000  
100  
-7.000  
  
-0.456  
0.595  
0.662  
25.610  
-2.072  
  
-0.235  
0.637  
-0.734  
13.177  
6.458  
  
0.859  
0.490  
0.151  
-48.227  
-5.879

280 445 2138

3048

42.5

-20

06

~~132~~  
~~132~~  
132

444.8

446.5

63754

33440 23

172

161

~~1026 ± 113~~

~~1026~~

~~1026~~

~~1026~~

42.5 ± 1.2

5.32

57.20

445.2

14205

33404

15

414

46.86

-5

46.41

-0030 -1318

-0033 -1326

-47

181

3.5

33406

43

50.22

46.8

46.17

-0472

-0494 -131

44.2

271529

81440

35469

5470

86.23

44.52

40.73

41.80

41.62

4703/495

41.62

7.800  
-20.100  
-47.000  
-131.000  
3.500

50  
45.200

.12  
446  
78.86

-0.456  
0.711  
0.536  
-346.031  
6.864

-3.0

-0.235  
0.484  
-0.643  
-251.761  
-58.711

-57.9

0.659  
0.513  
0.654  
-496.287  
-22.423

-36.6

3081 854 206401 207 14057

1.809 998 364 835 6081 19 24 1411

240  
240

63922  
BG

1285 984  
-013  
1386 984  
-004#80

+315 42  
+30.5  
5.02

192084

52554.11-1010

4646 98.2  
21

5.02

1007 1085

474411

34.90

410.25

0.52  
45.12  
45.94  
10.7  
47.04  
12.74  
46.26  
88.64  
88.64  
0139  
000  
000

10105 1083

635  
55443 52.959

(17)

7.8  
7.8  
7.8  
7.8

10149  
1012  
1010

612 758 558 3870  
611 784 594

858

122 127 50  
11 1270 956 021 11  
125 2121 101

1289 996 69824

608 127 50

46.26

1287 954 310

1210 996 35

080 239 251 628 080  
127 117 450 (1287 954 310) 092 + 11 54

7.800  
-19.400  
-12.000  
-7.000  
5.500  
125  
30.500

8.3

589

-0.456  
0.704  
0.544  
1.092  
16.735

417.1

-0.235  
0.495  
-0.837  
-3.836  
-26.604

-27.3

0.859  
0.509  
0.060  
-62.956  
-6.085

-276

47 53.5 -44 37 29  
3057 > 47.9 -44 37

1161 888 147  
1159 886 + 32.2 (2)

6344

-0054 +023 500

10583

-0052 +0284

7.8  
-44.6

-0555  
[-052 +027]

-73  
+27

5.75

+32.2

1161 888 147  
1159 886

7.800  
-44.600  
-73.000  
27.000  
5.750  
141 <sup>20</sup>  
32.200

-0.456  
0.669  
0.193  
223.535  
37.774

-0.235  
0.091  
-0.968  
69.485  
-21.348

0.859  
0.486  
-0.162  
-149.280  
-26.389



105  
10  
10

3069

7

49.1 -44 27

(2) +33.0V

64181

-0023 +014 500

64181 251 57 June

-00211 +0182-

8.4  
Shhh

0.000  
-019 +020

0.0  
0.0

1.141 52.156

1.143 70

6.29

+23

1.144 70

7.800  
-44.450  
-27.000  
20.000  
6.200  
173.78  
33.000

-0.456  
0.868  
0.195  
123.981  
27.974

-0.235  
0.894  
-0.968  
30.332  
-26.658

0.859  
0.487  
-0.161  
-32.289  
-10.921

1159 813 R11 (M1)

74152

7

49.5

~~0044~~ ± 4.7  
~~0035~~  
~~0034~~ 03

+0.23 ± 4.7  
+0.31 +0.24 +0.33  
5.8 9 6.8 +31.98

5232-16

0032

10632 32.277

1009.5 -21 2

42.08 190.4

7.8

2065

178  
455

26.919  
5.410

~~0034~~ +0.31  
~~0037~~ +0.30

43.06

52.97 1934.7

~~0051~~  
~~002~~ +32  
8.5  
+314

5.62 +0.96 - C 3.2.3 34  
230

~~0519~~  
~~044~~ +0.32  
27.9

41.35  
-1.05

9.55  
37.4

5.62 +0.555 +0.702 23  
25

32.245  
1  
210

42.40  
+1.19

30.0

5.110 +0.33 ①

32.353  
-4

210

42.21

1940.68

5251 -0.301  
0.765

0.557  
0.78

8.47

32.238  
26

69.05  
40.97

+26  
42.04

42.12

9000

253  
-1.202

219

41.02

42.12  
+0.94

7.800  
-21.850  
-52.800  
32.000  
5.500  
12

5.89  
4.8  
91.20

-0.456  
0.720  
0.524

+30.5

214.833  
43.650

+36.2

-0.235  
0.470  
-0.851

-18.5

125.315  
-11.361

-15.7

0.859  
0.511  
0.046

-6.5

-120.037  
-13.655

-9.5

3085

1.225 897 355

51.2

-36

14

+12.4  
-106  
-109  
-107 ± 3.5

64572

-10095 -1004  
-1115  
-1008 -1002

13.144

7.5

1009

58.90 2.3

42  
196

1009

1011

33  
58.57

1217 887

1218 894

1.252 906

13

1.224 887

14

1.220 895

15

1.224 898

16

1.220 895

17

1.224 898

18

1.220 895

19

358 MF  
1783  
844 707 523 313  
843 908 549

524  
332  
12  
1.224 898  
042 317 1241 849 2820 96 1022 152

13.106

69.60

58.41

7.85

23  
134

58.46

36.25

13.132

55.17

58.46

1.0

13  
168

10  
58.06

2

5.0

13.153

35.14

58.99

112.4

1  
152

122  
58.77

7.850  
-36.250  
-10.000  
-2.000  
5.000  
100  
12.400  
  
-0.466  
0.828  
0.312  
9.948  
4.861  
  
-0.226  
0.229  
-0.947  
6.481  
-11.691  
  
0.856  
0.511  
-0.081  
-37.551  
-4.737

1302

64443 7 51.8 +18 17 -11.8

6010691

+181778

ZU

Wunder

-016

HEAD

+075-023 AG-03

+027 -026 7

0 -2

+0015 = 8.0

4.3

56.188

~~6.8~~

~~10014~~

120

+0019

+0014

86.7 - 4.2

1.76

6828

-030

-034

+28

-25

17.4

-118

-034 ± 7.8

56.198

~~26~~

~~24~~

59.14

11

64

56.74

F11

56.270

~~26~~

~~24~~

71.64

86.77

11

65

+00187 -033

+0258 -035

+026-025



R.A. : 7.850  
DEC. : 18.250  
PM. R.A. : 28.000  
PM. DEC. : -25.000  
DISTANCE : 7.400  
MODULUS : 302  
RAD. VEL. : -11.800

q1 (U) : -0.466  
q2 (U) : 0.227  
q3 (U) : 0.855  
dU : -85.605  
U : -35.945

q1 (V) : -0.226  
q2 (V) : 0.904  
q3 (V) : -0.363  
dV : -135.633  
V : -36.675

q1 (W) : 0.856  
q2 (W) : 0.363  
q3 (W) : 0.369  
dW : 64.848  
W : 15.224



64512 7 52.0 +18 - 05 +15.0

+18.779

-0.3 -0.0 +0.23

MSD

-0016 007 600 9100-

-011 -0044

-010 006  
-010 -004

-74

1.205 899 286

946 236

-013 -007

-6

6.55

+5.0

000 006  
-013 006

1001

R.A. : 7.900  
DEC. : 18.100  
PM. R.A. : -14.000  
PM. DEC. : -6.000  
DISTANCE : 6.95  
MODULUS : 245

RAD. VEL. : 5.000

q1 (U) : -0.475  
q2 (U) : 0.231  
q3 (U) : 0.849  
dU : 23.404  
U : 9.989

q1 (V) : -0.218  
q2 (V) : 0.904  
q3 (V) : -0.368  
dV : -11.51  
V : -4.77

q1 (W) : 0.85  
q2 (W) : 0.36  
q3 (W) : 0.37  
dW : -64.00  
W : -13.81

123  
123

-100

200

6460 07 511 -1.4 59

-0027 +030 +adm

68639

0

+017

+004

-0047

-0002

-0042

85.18

72.12

70.17

6.13

-0035 +046

112

+50

505

810  
[0504 610  
-014 +050]

15.11

R.A. : 7.850  
DEC. : -70.000  
PM. R.A. : -41.000  
PM. DEC. : 50.000  
DISTANCE : 5.750  
MODULUS : 141  
RAD. VEL. : 45.100

q1 (U) : -0.466  
q2 (U) : 0.862  
q3 (U) : -0.201  
dU : 235.215  
U : 24.165

q1 (V) : -0.226  
q2 (V) : -0.335  
q3 (V) : -0.914  
dV : -64.451  
V : -50.346

q1 (W) : 0.856  
q2 (W) : 0.380  
q3 (W) : -0.351  
dW : 33.276  
W : -11.143

1764 21 -7  
 64938 7 53.8 -0003 4 3 904 6.3 9 6 9 +16.158  
 -0004 ± 5.8 -00.1 5.1  
 +0002 -010  
 +18.0 (3P)

5271 45.534 1900.5 +4 37 11.00 1899.7  
 10734 020  
 3093

3093  
 618588 387492  
 616887 390 4167  
 48.511 (4103) 10.55 10.45

1.158 215 248  
 24  
 537 10.49  
 1933.41

1180 780 219 (Sts)  
 76.1 -00005 -0095 -001  
 -00015 -0092

1152 960  
 1106 754 203 24  
 24  
 24  
 7.4  
 +4.6  
 -1  
 -7  
 5.6  
 +17.3

1152 960  
 1106 754 203 24  
 24  
 24  
 7.4  
 +4.6  
 -1  
 -7  
 5.6  
 +17.3

1152 960  
 1106 754 203 24  
 24  
 24  
 7.4  
 +4.6  
 -1  
 -7  
 5.6  
 +17.3

1152 960  
 1106 754 203 24  
 24  
 24  
 7.4  
 +4.6  
 -1  
 -7  
 5.6  
 +17.3

1152 960  
 1106 754 203 24  
 24  
 24  
 7.4  
 +4.6  
 -1  
 -7  
 5.6  
 +17.3

7.900

-4.200

-1.000

-7.000

5.600

131.8 ✓

17.300

-0.475

0.423

0.771

-11.791

11.792

12.3

-0.218

0.793

-0.569

-25.274

-12.0

-18.178

0.852

0.439

0.285

-18.586

33

2.472

230

548

124

-0.6

1 line

64960 7 54.2 +15 56 6.0 g 103 +10.26

5274

68

10742

-0018 -043 1030

~~-0022 +1.6 -048 ± 1.5 6.0 → 1030~~

3098

w<sub>3</sub> 50

7.9  
+15.5 ✓

-00184 -0483

1282 1096 276 m<sup>2</sup>

-00177 -0496

7.4 ✓

17.1 ✓

-025 ✓

5.3 ✓

-025 -057

+12.5 ✓



7.900

~~13.950~~

-20.000

-52.000

5.300

11.45 ✓

~~12.500~~

148

-0.475

0.263

0.849

-0.486

~~0.521~~ 11.45

-0.218

0.389

-0.482

-193.344

~~27.224~~ 28.14

0.852

0.374

0.365

-193.236

~~17.620~~ 16.70

1275/1091 25



3096

) 53.2 -30 47

+53.9 (2)

64974

-0032 +003

-0033 +030 *Steps*

7.9

-30.8

-44

+45

6.0

+53.9

-0412  
038 +045

21.800  
-30.000  
-44.000  
45.000  
6.000  
158  
53.900

-0.475  
0.792  
0.384  
254.022  
60.945

-0.218  
0.317  
-0.923  
106.595  
-32.864

0.852  
0.523  
-0.022  
-41.244  
-7.736

3102

7 54.7

-22

45

+13.5a

$$10020 \pm 1.7$$

$$1005 \pm 1.9$$

$$10013$$

$$10024$$

$$10024$$

$$10014$$

$$10014$$

$$10014$$

$$10014$$

$$10014$$

$$10014$$

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$$10014$$

$$10014$$

$$10014$$

$$10014$$

$$10014$$

$$10014$$

$$10014$$

$$100215 + 1006$$

$$100241 + 10059$$

-0333

$$-024 + 1008$$

1935

$$42460 + 43.85$$

$$24 - 7$$

$$454 + 45.13$$

$$48.514$$

$$83$$

$$602$$

$$42.455$$

$$15$$

$$470$$

$$43.83$$

$$42.543$$

$$835$$

$$43.7$$

$$43.7$$

$$43.7$$

$$43.7$$

$$43.7$$

$$43.7$$

$$43.7$$

$$43.42$$

$$7.3$$

$$-21$$

$$44.13$$

$$43.78$$

$$-1$$

$$43.83$$

$$44.00$$

$$26$$

$$43.7$$

$$43.7$$

$$43.7$$

$$43.7$$

$$43.7$$

$$43.7$$

$$43.7$$

$$10013$$

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3102

Jan 11

74 547 -22 45 +13.86

956010756  
green

0022 009 MSU  
22  
2420  
0335  
030 + 011

478 723 469  
598 454 965  
851 421 061

+16  
+15

7.900  
-22.750  
-31.800  
8.000  
6.000  
158  
13.800

-0.475  
0.730  
0.491  
92.997  
21.370

-0.218  
0.443  
-0.870  
46.346  
-4.657

0.852  
0.520  
0.851  
-95.764  
-14.472

65174  
734857

7

524 + 2 55  
550 402 4/5

+280

- 0010 + 002 1000

015 + 002

~~022 - 107 / APR 3~~

~~022 - 6 / APR 3~~

~~56 - 6 4~~  
~~74 - 9~~

15

+280  
55  
0874

R.A. : 7.900  
DEC. : 2.750  
1. R.A. : -15.000  
1. DEC. : 2.000  
DISTANCE : 5.800  
MODULUS : 145  
D. VEL. : 28.000  
  
q1 (U) : -0.475  
q2 (U) : 0.448  
q3 (U) : 0.757  
dU : 38.000  
U : 26.700  
  
q1 (V) : -0.218  
q2 (V) : 0.774  
q3 (V) : -0.594  
dV : 22.829  
V : -13.344  
  
q1 (W) : 0.852  
q2 (W) : 0.448  
q3 (W) : 0.270  
dW : -56.288  
W : -0.570

810 ✓ 1266 1124 304  
15647 53.9 -57.9 10 +26.0  
-10.99 +0.97  
-10.09 +0.14

65273  
-56.1468 +0.21  
1046 +0.24  
-10924 +0.239

1264 1127 306 342

1274 1204 307 MF

1282 1116 308  
1282 1120 308  
1282 1122 308

02 1265 113  
02 1265 113  
02 1265 113  
02 1265 113  
02 1265 113  
02 1265 113

1280  
1287

1264 1127 306

1256 1121 303

1047 10 +26.0  
-10.09 +0.14  
-10.09 +0.14

51.170 5.9 12.34 0.3  
932  
602

51.024 6.976 7.9  
11 11.25  
17/42 87.15

51314 88.14 13.60 +131  
-24  
12.55  
288

1260



7.900  
-57.150  
-131.000  
26.000  
5.000  
100  
26.000

-0.475  
0.880  
-0.008  
268.523  
26.657

-0.218  
-0.126  
-0.968  
57.933  
-19.368

0.852  
0.458  
-0.252  
-230.686  
-29.689

ost

os

lit

hr-

shsh-

sb

lit

hr-

shsh

lit

ost

lit

sb

hr-

7.950  
-45.450  
-24.000  
18.000  
5.000  
100  
50.000

-0.485  
0.859  
0.167  
111.949  
19.527

-0.210  
0.071  
-0.975  
22.786  
-46.480

0.849  
0.508  
-0.146  
-24.430  
-9.736

65477

7

56.4

706 29

30.5

76 36

76.1841

-622 070 HAW

024 020

023 015

023

011

010

014

R.A. : 7.950  
DEC. : 6.450  
PM. R.A. : -23.000  
PM. DEC. : -18.000  
DISTANCE : 7.000  
MODULUS : 251  
RAD. VEL. : 1.000

q1 (U) : -0.485  
q2 (U) : 0.399  
q3 (U) : 0.778  
dU : 18.519  
U : 5.430

q1 (V) : -0.210  
q2 (V) : 0.811  
q3 (V) : -0.546  
dV : -46.466  
V : -12.218

q1 (W) : 0.849  
q2 (W) : 0.428  
q3 (W) : 0.310  
dW : -128.503  
W : -31.969

65735 7 57.9 +19 57 6.3 100 +27.78

5324

16

10841

+0004 -011 N30

-0001 ± 3.9 - 0.18 ± 3.2 6L → N30

3125

1.1 m<sup>2</sup> per sq ft

+00010 -0099 2L

1200 930 235

+00050 -0086

8.0

1200 935 226 m<sup>2</sup>

+00041 -00071

+20.0

1205 929 224

+00048

+6

-5

15.6

1205 925 221

+0006 -0005

-378

+27.7

10

924

0545

8.000

20.000

6.000

-5.000

5.600

13.53

27.700

-0.494

0.207

0.844

-18.126

20.994

-0.202

0.917

-0.343

-27.127

-13.086

0.846

0.340

0.412

14.542

13.322

65757

7 58.0 +23 43 6.4 NO +25.08

-0017 ±39 -029 ±2.7  
-0016 -027

5327

1.759

1903.4

+23

43

19.26

1899.7

$\frac{0.96}{835}$

-00165 -028  
-00177 -0218

$\frac{1.46}{20.72}$

$\frac{31.4}{31.7}$

A056513

11m2.4

1.789  
19

-00177

28.0

19.48

1934.2

31.7

3127

$\frac{808}{19}$

28.0

$\frac{31}{19.79}$

8.0

32.100  
29.685

-00243

25.29

1931.95 +227

$\frac{1.785}{1.350}$

1928.04

-3.98

-26  
-25

.62

19.66

21.31

19.82

1.772  
+39  
80

19.66

19.91

-0.87 +28.0

20.10



8.000  
-23.700  
-26.000  
-25.000  
5.000  
100  
25.000

-0.494  
0.152  
0.856  
37.729  
25.167

-0.282  
0.938  
-0.283  
-88.360  
-15.921

0.846  
0.313  
0.433  
-132.460  
-2.426

1.203 1057 381 2.1.22

3121 11.9 57.9 +17 28

+44.4  
-004 -009  
-016 ± 2.5

65759

-0006 ± 1.9

55501 99.3 1009 4982 46.3  
30  
581

-0007 -008

-0005 -0053

-0111 (011-011)

1302 1055 321

1313 1062

1.222 1069 335 10F

05 1305 1057

(1.20)

Nov 4258 - 9211 0113  
9048 - 3893 10000

-1.0

06 1.200 1055 331 10004 7.71

55.444 (66.14) 50.13

34  
478

-8  
50.08 412.45

25  
55440 468

(66.7) 50.39

50.29 570

55.4188 510

(84.10) 49.78

+16  
49.94

8.000  
17.456  
-12.000  
-3.000  
5.000  
100  
41.400

7.55

-0.494  
0.245  
0.834  
23.348  
36.866

6.0

41.9

38.7

-0.202  
0.901  
-0.384  
-1.878  
-16.077

20.9

-15.0

0.846  
0.358  
0.396  
-50.970

1.1

11.306 +83