

64685  $\frac{1386}{330} \times 7$  52.8 +9 00 d?F4

HR3087

295  
290

5.85 +36-01 C (5.8)

5.85  $\frac{149933}{116}$

.0237 .177 .562 @ 502 2.707 3.04

[m] 214 +1

[L] 513 -10

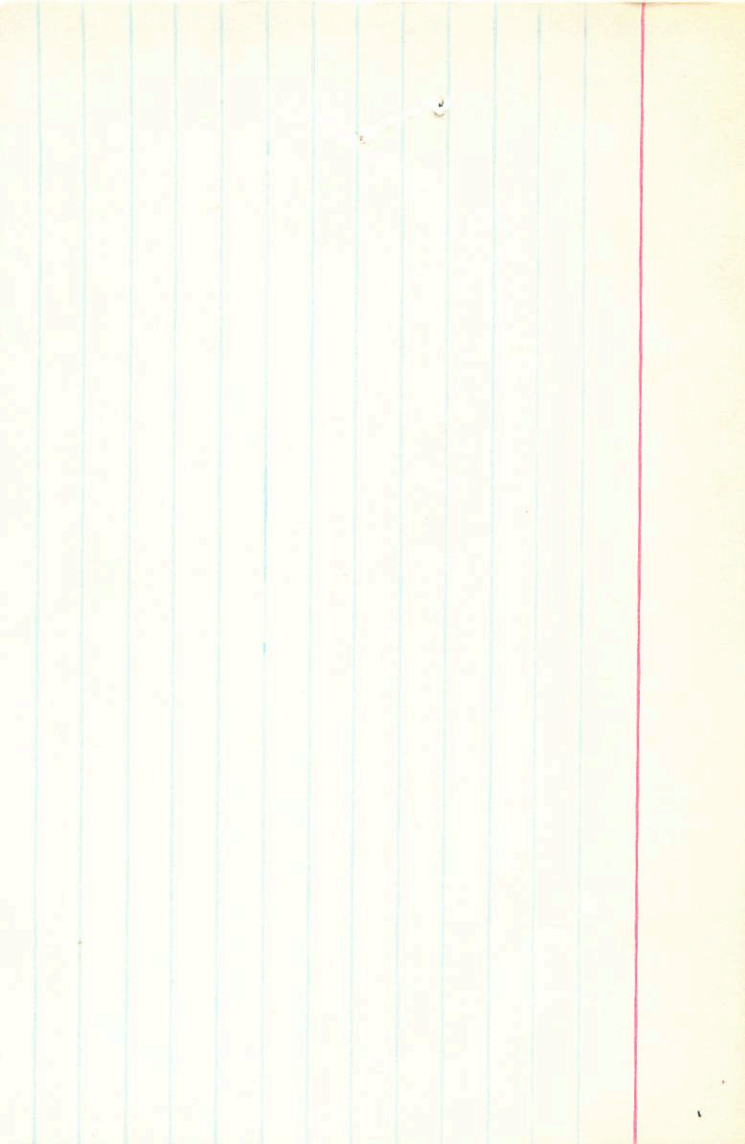
2.50 +12.7 -24.0 -1.4

-128 -339 -218  
-4  
-944

7908 8101  
6125 8001

2.63  
+019

+14 -27 -3



64685

7

52.8

+9

00

5.8

d=4

+21.98

5269

10710

48.497

1902.2

+8

5-9

49.57

1897.7

43  
-----  
1540

4.71  
-----  
54.28

48.490  
25  
-----  
515

-0003-094 (curly)

50.85  
15  
-----  
51.00

-004-094

34.0

48.489  
+28  
-----  
1517  
-----  
514  
-----  
-024

50.15  
125  
-----  
50.40  
-----  
50.70  
-----  
-3.58

1938.75  
2.48  
-----  
36.2  
-----  
38.5

-0009 ± 2.9    -090 ± 2.7  
-0007            -093

R.A. : 7.900  
DEC. : 9.000  
R.A. : -4.000  
DEC. : -94.000  
DISTANCE : 2.930  
MODULUS : 39  
VEL. : 21.900

q1 (U) : -0.475  
q2 (U) : 0.363  
q3 (U) : 0.802  
dU : -152.660  
U : 11.671

q1 (V) : -0.218  
q2 (V) : 0.834  
q3 (V) : -0.507  
dV : -367.563  
V : -25.264

q1 (W) : 0.852  
q2 (W) : 0.416  
q3 (W) : 0.317  
dW : -201.168  
W : -0.804

127  
228  
104

12

12

3067      7 50.4      +24 54      AB 5

6445

10683

499    +09    +12 5

59

052-190    031-250

7257

199  
398  
1.058  
1.456  
1.552

522  
0872  
0792

207  
127  
33

Bud 51

-036-035

+8.0

107  
125

B



268" 01"

817" 0  
261" 0

250" 01"



+069025.5  
 +115 ± 3.4  
 +0664  
 +119  
 65907 3128  
 56.9 -60 10 5.7 48

5309  
 5.59 + 0.57 (1.64) 6.25

10804 57.614 1911.5 -60 10 6.49 1  
2.656  
48.958  
 -5.21  
 11.70

503  
 472  
 35  
 65 2112  
 53 2116  
 53 2121  
 50.886  
 -17  
 569 216  
 51.105  
 51.377  
 -0.27  
 51.347  
 18.850  
 + 2.150  
 51.105  
 7.67 1939.30  
 + 8  
 7.59 1435

31.0

6.24 1945.71  
 -56 85.01  
6.76 42.5  
 7.18 37.5  
 +4.52

517  
 4140  
 4117  
 4117  
 4117  
 4117

11



14

53km Country  
3109 Sn (h, km) 7

57.4 460 28

65339

057 256 710 29605km -486

057 257 762 2860  
2607 751 2915  
554 055  
083  
24

-83  
49

-00 584 -0225 F124  
+22  
1390

Q = 062 - 0352  
-083 81

∠ = -028 - 334

-0431  
1840  
-24



010 001



65907.000\*

7.000\*

56.900\*

-60.000\*

-10.000\*

0.521\*

0.117\*

1.2

1.100\*

17.4

16.596 138

14.000

-0.713

-0.713

-1

-24

M

37

-1

35.

3109 7 57.4 +60 28 Ap

65339 +F 6.03 -0.60 1.23

10872 -30 6.02 +0.14 +0.05 2.554L

<sup>6</sup><sub>2</sub>  
-0.584 -0.225/F124  
+22  
-0.428

~~045-020~~

FAC

244 271  
52.8 572  
743  
227 743

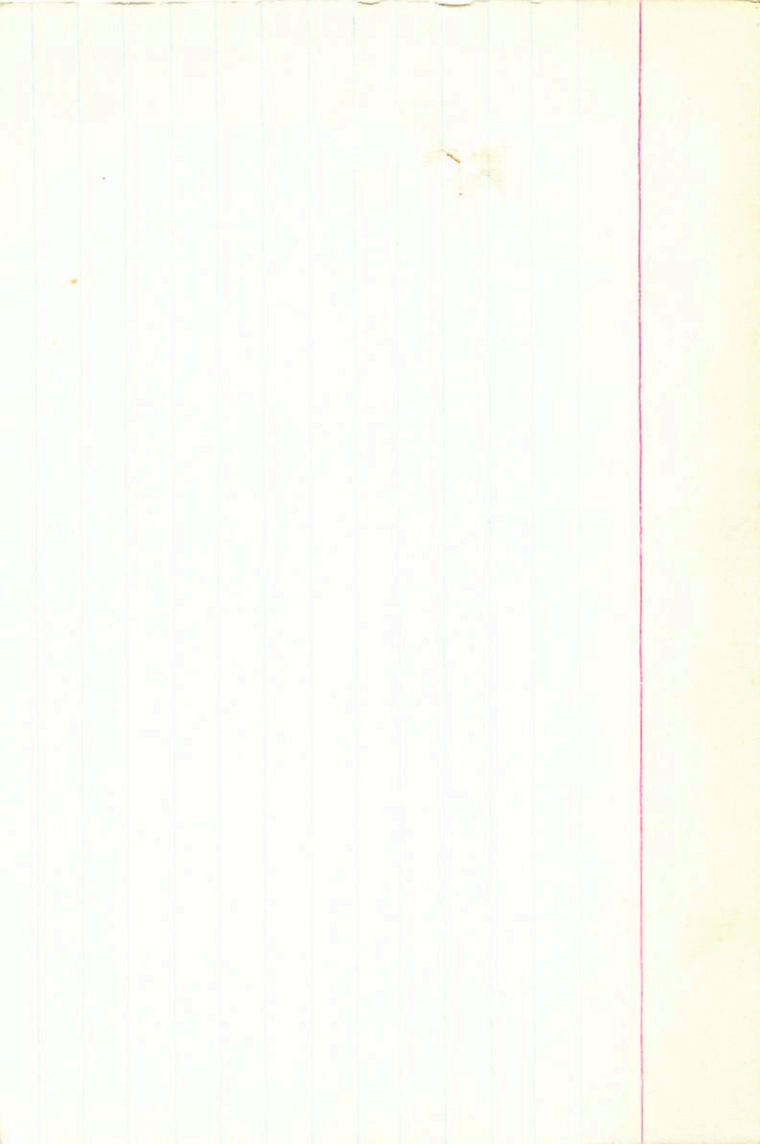
10505-0005  
1027 021

85  
" 85

1057 1264 743 2.860

Budget-

SC  
1E  
505





3183 6507 > 56.1 - 57.19 + 9.5

35963

~~40.52~~  
~~40.55~~

947

151 174 977 2770

1024 1037

6.4W 657 1833  
1177

10.32  
52

5804-CEA

1204 1350  
1079 0.50

9274 1266  
6862

- 7104 0612  
7038

-90 -31  
-3 37

595 865  
+9.5 +9.5

176



R.A. : 7.950  
DEC. : -51.300  
PM. R.A. : -36.000  
PM. DEC. : 37.000  
DISTANCE : 5.650  
MODULUS : 135  
RAD. VEL. : 9.500

q1 (U) : -0.485  
q2 (U) : 0.871  
q3 (U) : 0.078  
dU : 204.502  
U : 28.330

q1 (V) : -0.210  
q2 (V) : -0.029  
q3 (V) : -0.977  
dV : 17.306  
V : -6.950

q1 (W) : 0.849  
q2 (W) : 0.490  
q3 (W) : -0.197  
dW : -4.593  
W : -2.490

16

66210 7 58.8 -48 51 A2 V +12.3 C4

FD 1153 005 172 1102 2.897 601-124  
6.02 + 0.04 (1.52)

6610875  
-0025 ± 7.1 + 0.43 ± 5.4

47.649 1847.2 -0054 + 0.68 35.71 18900

1327/8  
-0034 + 0.30 2mg -2.58  
38.29

47.30  
35.37

5 + 0.0314  
112.3

-10352 + 0.33

3.962 181 -0347 28.92 142772  
43.640 7 -0.827  
0.2 35.783 + 2.55  
47.6/60

35.86  
+ 35.74

1000000

-020 + 0.35

1.80

R.A. : 7.950  
DEC. : -48.850  
PM. R.A. : -30.000  
PM. DEC. : 37.000  
DISTANCE : 3.140  
MODULUS : 42  
RAD. VEL. : 12.300

q1 (U) : -0.485  
q2 (U) : 0.867  
q3 (U) : 0.115  
dU : 197.414  
U : 9.802

q1 (V) : -0.210  
q2 (V) : 0.013  
q3 (V) : -0.978  
dV : 21.884  
V : -11.096

q1 (W) : 0.849  
q2 (W) : 0.498  
q3 (W) : -0.176  
dW : 7.943  
W : -1.824

17

17

373 8 4.7 751 40  $\overline{A25}$

67006  
11018

~~Work~~

$x^2$   $x$   $x$   
110  
110

4.84 + 0.5 00  $\sqrt{2.875}$   
2.875  $\textcircled{2}$  500

021 150 1.099

40

154 276  
308  $a=0.36$  ✓ 276  
1095  $n=0.23$  ✓

10000  
-20  
20

51900

600  
500

45

40.5  
435

18

3173.000\*

8.000\*

4.700\*

51.000\*

40.000\*

-0.057\*

-0.009\*

4.350\*

74.131

5.000

0.149

0.821

15.119

0.010

0.187

1.660

-0.229

0.540

-14.311

18

3183

67456

11027

5.1 -20 24 Ann

5.37 +10 (+06) C

(2)

5.34 071 180 1.460 2.823 13,2236

256

143

1446

1732

1662

505

Red 51





31933 54.2

67523

8

05.4

-24 09

F6LP

HR3185

9286 9527

GC11034

-300K

-200K

15(p)bug

229

[m]

275-57

[c]

443 + 155 / 98

124

424

2.00

9031

2445

F6LP

-00624 + 00006 W2 (2)

-10570 + 0459

91104 + 0405

-00604 + 0405

259 229 455

263 236 717 2704

260 210 732 2722

262 223 724 2713

261 228 715 2713

261 228 715 2713

261 228 715 2713

261 228 715 2713

261 228 715 2713

261 228 715 2713

261 228 715 2713

261 228 715 2713

-0795 + 049

-0827

+30.2 -37.3 -1.7

+368 +168 -24

154

19

3157

8

149

+ 82

35

A0

67934

11296



3221

68457

11199

8 116 +6.0 32 A7 -15.7

6.45 +0.20 +0.4

6.43 012 1.371

10.48 +0.14 +0.04

And(s)

13.66 +0.70 +0.27

$\frac{34}{8}$

-0023 +018

1966

5.70

-15.7

300 C10



8.5  
5.04  
171

20

R.A. : 8.200  
DEC. : 60.550  
M. R.A. : -34.000  
M. DEC. : 8.000  
DISTANCE : 5.700  
MODULUS : 138  
D. VEL. : -15.700

q1 (U) : -0.532  
q2 (U) : -0.368  
q3 (U) : 0.763  
dU : 28.166  
U : -8.091

q1 (V) : -0.168  
q2 (V) : 0.929  
q3 (V) : 0.331  
dV : 48.524  
V : 1.506

*20*  
q1 (W) : 0.830  
q2 (W) : -0.048  
q3 (W) : 0.555  
dW : -67.591  
W : -18.050

3224 8 10.7 +20 18 A3 III

6543 659 +13 +13 1335 915

11176 669 177 1025 1.044 2854 @ SPL

2d 3v 189 600 656-063 #03

378 +101 a ✓

1032 +71 a v

1028-012 ✓

1904 +0.61

177

1029-010-020-N80

504

110280112

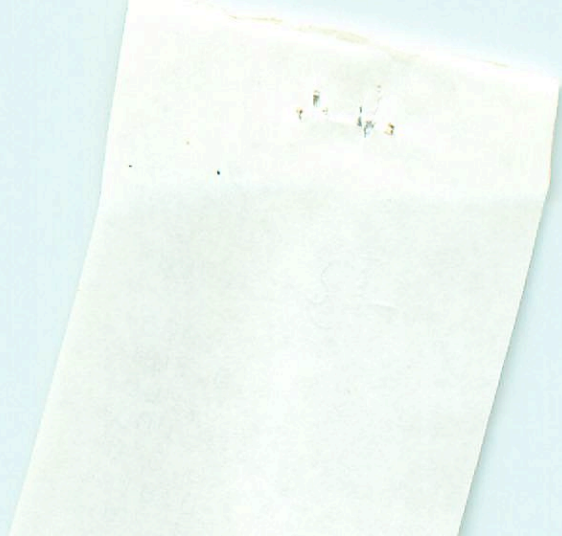
1905

025 645



1

21



11

3 224.000\*

0.000\*  
10.700\*  
23.000\*  
18.000\*  
-0.040\*  
-0.016\*  
5.700\*

3226

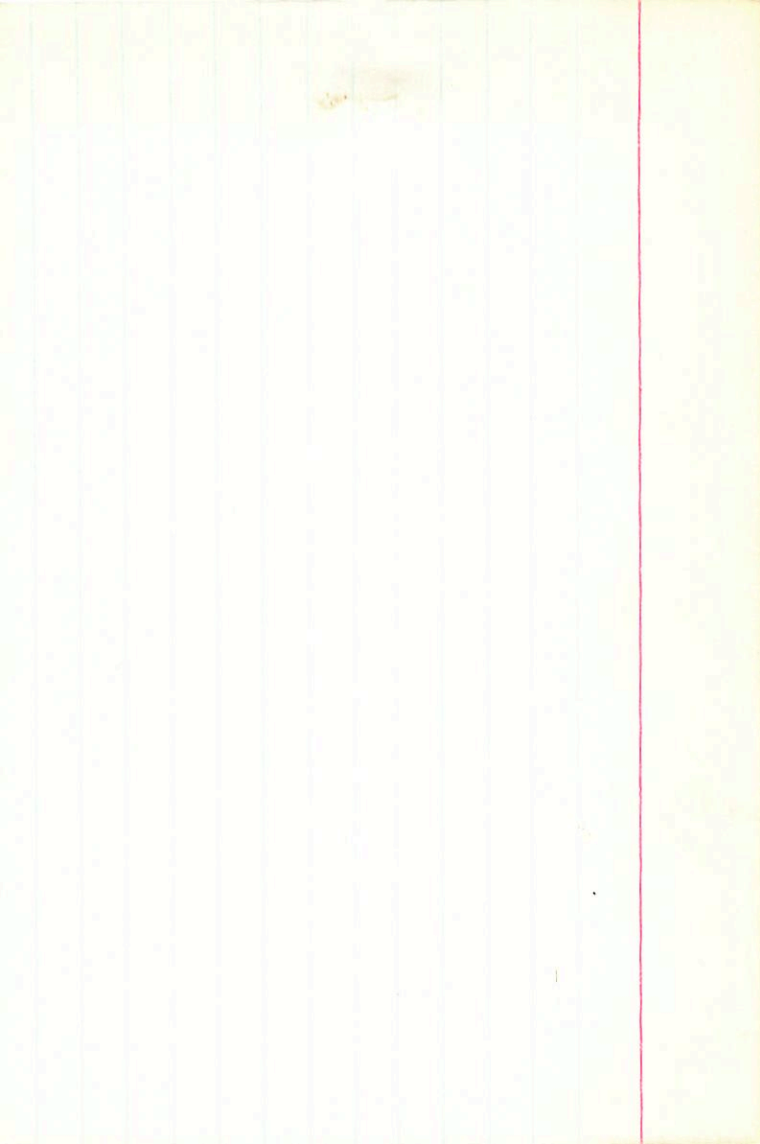
8 9.7 -42 50 A3p

68601

475 +17 +08C

11155

132 092 1.546 (2) 2700 (3) 615



3233

8 10.5 -37 46

+270

68862

056 1871174 2.861 -0.10

1007-004 600 600 -0.55 1.565

1008  
-0.10

-23

~~647~~

+270

17.3

240

154

22

0.150	PM. DEC.	01 (U)
0.150	PM. DEC.	02 (U)
0.150	PM. DEC.	03 (U)
0.150	PM. DEC.	04 (U)
0.150	PM. DEC.	05 (U)
0.150	PM. DEC.	06 (U)
0.150	PM. DEC.	07 (U)
0.150	PM. DEC.	08 (U)
0.150	PM. DEC.	09 (U)
0.150	PM. DEC.	10 (U)
0.150	PM. DEC.	11 (U)
0.150	PM. DEC.	12 (U)
0.150	PM. DEC.	13 (U)
0.150	PM. DEC.	14 (U)
0.150	PM. DEC.	15 (U)
0.150	PM. DEC.	16 (U)
0.150	PM. DEC.	17 (U)
0.150	PM. DEC.	18 (U)
0.150	PM. DEC.	19 (U)
0.150	PM. DEC.	20 (U)
0.150	PM. DEC.	21 (U)
0.150	PM. DEC.	22 (U)
0.150	PM. DEC.	23 (U)
0.150	PM. DEC.	24 (U)
0.150	PM. DEC.	25 (U)
0.150	PM. DEC.	26 (U)
0.150	PM. DEC.	27 (U)
0.150	PM. DEC.	28 (U)
0.150	PM. DEC.	29 (U)
0.150	PM. DEC.	30 (U)
0.150	PM. DEC.	31 (U)
0.150	PM. DEC.	32 (U)
0.150	PM. DEC.	33 (U)
0.150	PM. DEC.	34 (U)
0.150	PM. DEC.	35 (U)
0.150	PM. DEC.	36 (U)
0.150	PM. DEC.	37 (U)
0.150	PM. DEC.	38 (U)
0.150	PM. DEC.	39 (U)
0.150	PM. DEC.	40 (U)
0.150	PM. DEC.	41 (U)
0.150	PM. DEC.	42 (U)
0.150	PM. DEC.	43 (U)
0.150	PM. DEC.	44 (U)
0.150	PM. DEC.	45 (U)
0.150	PM. DEC.	46 (U)
0.150	PM. DEC.	47 (U)
0.150	PM. DEC.	48 (U)
0.150	PM. DEC.	49 (U)
0.150	PM. DEC.	50 (U)
0.150	PM. DEC.	51 (U)
0.150	PM. DEC.	52 (U)
0.150	PM. DEC.	53 (U)
0.150	PM. DEC.	54 (U)
0.150	PM. DEC.	55 (U)
0.150	PM. DEC.	56 (U)
0.150	PM. DEC.	57 (U)
0.150	PM. DEC.	58 (U)
0.150	PM. DEC.	59 (U)
0.150	PM. DEC.	60 (U)
0.150	PM. DEC.	61 (U)
0.150	PM. DEC.	62 (U)
0.150	PM. DEC.	63 (U)
0.150	PM. DEC.	64 (U)
0.150	PM. DEC.	65 (U)
0.150	PM. DEC.	66 (U)
0.150	PM. DEC.	67 (U)
0.150	PM. DEC.	68 (U)
0.150	PM. DEC.	69 (U)
0.150	PM. DEC.	70 (U)
0.150	PM. DEC.	71 (U)
0.150	PM. DEC.	72 (U)
0.150	PM. DEC.	73 (U)
0.150	PM. DEC.	74 (U)
0.150	PM. DEC.	75 (U)
0.150	PM. DEC.	76 (U)
0.150	PM. DEC.	77 (U)
0.150	PM. DEC.	78 (U)
0.150	PM. DEC.	79 (U)
0.150	PM. DEC.	80 (U)
0.150	PM. DEC.	81 (U)
0.150	PM. DEC.	82 (U)
0.150	PM. DEC.	83 (U)
0.150	PM. DEC.	84 (U)
0.150	PM. DEC.	85 (U)
0.150	PM. DEC.	86 (U)
0.150	PM. DEC.	87 (U)
0.150	PM. DEC.	88 (U)
0.150	PM. DEC.	89 (U)
0.150	PM. DEC.	90 (U)
0.150	PM. DEC.	91 (U)
0.150	PM. DEC.	92 (U)
0.150	PM. DEC.	93 (U)
0.150	PM. DEC.	94 (U)
0.150	PM. DEC.	95 (U)
0.150	PM. DEC.	96 (U)
0.150	PM. DEC.	97 (U)
0.150	PM. DEC.	98 (U)
0.150	PM. DEC.	99 (U)
0.150	PM. DEC.	100 (U)



R.A. : 8.150  
DEC. : -37.750  
PM. R.A. : -23.000  
PM. DEC. : -4.000  
DISTANCE : 6.470  
MODULUS : 197  
RAD. VEL. : 27.000

q1 (U) : -0.522  
q2 (U) : 0.812  
q3 (U) : 0.259  
dU : 29.627  
U : 12.832

q1 (V) :  
q2 (V) : -0.176  
q3 (V) : 0.150

3235 8 13.7 + 59 44 AS

64430

4081

11252

050 193 1014 1853 @SPC

100-1000

209

418

1014

434

1490

1560

1803

2

LCR-1 1.377

675

4.87

1.70

10.8

11.6

11.7

122  
-56  
103

23

9. 11. 1950  
10. 11. 1950

17. 000

4. 070

1. 000

2. 150

3. 280

RD. VEL.

MODULUS

PM. DISTANCE

PM. DEC.

PM. R.A.

DEC.

R.A.

R.A. :	8.200
DEC. :	59.750
M. R.A. :	-6.000
M. DEC. :	-1.000
DISTANCE :	4.670
MODULUS :	86
RD. VEL. :	-17.000
	-0.532
	-0.357

3257

8 151 -16 08 +0.4

69665

043 145 1207 2585

5017-010  
5017-010  
5017-010

6.30 595 1.608

5017-010

286-17  
-16

627 6.51

+0.4 +0.4



24





R.A.	:	8.250
DEC.	:	-16.150
R.A.	:	-17.000
DEC.	:	-16.000
ANCE	:	6.510
JLUS	:	200
JEL.	:	0.400

(U)	:	-0.541
(U)	:	0.656
(U)	:	0.527
DU	:	-7.907
U	:	-1.374

(U)	:	-0.159
(U)	:	0.000
(U)	:	0.000

10878

-0069 ± 83 -098 ± 9.0  
-0078

HR225 f 16.7 +53 44 f0 110.5 8

706 275  
706 26.4

-061 -085

69682 177 202

+2.33  
+2.89

5504  
11344

41.097 1905.9 f53 44 2.44  
304  
649 085 1046  
4.26  
6.70

2249  
2244

43.3 14273

46.52  
54.515  
41.335  
41.335

-38.00  
51.30  
-1.69

148  
243  
31.3

74.36

Carbury  
10173-109

3.18  
30.7

-110

9808  
-6064

411.99  
100

2907

-065-104

704  
413  
110.5

26.7  
23.7  
4.4

827 - 562 806 592 - 061 - 055 410.5 - 079 + 8 - 275

050 065 034 044 025 469 + 4.2 - 3 + 5

-1 + 36 - 10

015

28

2 Cha

403315

8 19.9 41

51,018 1905.1 -76

-1383

49,635

71243

5530

11419

50,779

761

-510

49,43

45,31

717

45,14

69.49

51589

584

42.17

42.22

+6308 +1007

410524

65014

41104108

480

108

1.4

-13.8



M. L. ...  
DISTANCE ...  
... 67 ...  
... 10.500 ...

541  
9  
26  
159  
963  
0.217  
25.553  
26.227  
0.826  
0.010  
0.564  
-259.467  
-11.464

520-523 -924 225 +106 +106 -13.7 -103 +13.3 114  
-087 084 061 -059 -133 657 -3.1 +1.5 -2.5

-1.5 +14.9 +16.1 020

060

26

8.300 : R.A.  
 -74.750 : DEC.  
 480.000 : PM. R.A.  
 100.000 : PM. DEC.  
 1.400 : DISTANCE  
 12 : MODULUS  
 -13.000 : RAD. VEL.

-0.250 : p1 (U)  
 0.774 : p2 (U)  
 -0.315 : p3 (U)  
 102.257 : ub  
 0.430 : u

-0.121 : p1 (V)  
 -0.442 : p2 (V)  
 -0.374 : p3 (V)  
 -15.377 : vb  
 0.049 : v

0.832 : p1 (W)  
 0.433 : p2 (W)  
 -0.371 : p3 (W)  
 0.009 : w  
 1.204 : W

*Handwritten mark*

R.A. : 8.300  
DEC. : -76.750  
PM. R.A. : 480.000  
PM. DEC. : 108.000  
DISTANCE : 1.400  
MODULUS : 19  
RAD. VEL. : -13.800

q1 (U) : -0.550  
q2 (U) : 0.774  
q3 (U) : -0.315  
dU : 109.657  
U : 6.430

q1 (V) : -0.151  
q2 (V) : -0.462  
q3 (V) : -0.874  
dV : -315.377  
V : 6.049

q1 (W) : 0.822  
q2 (W) : 0.433  
q3 (W) : -0.371  
dW : 650.009  
W : 17.504

26

R.A. : 8.707  
DEC. : -24.300  
PM. R.A. : 38.888  
PM. DEC. : -82.888  
DISTANCE : 1.250  
MODULUS : 20  
RAD. VEL. : 2.200

d1 (U) : -0.618  
d2 (U) : 0.798  
d3 (U) : -0.834  
dU : -325.054  
U : -8.188

d1 (U) :  
d2 (U) :



R.A.	:	8.700
DEC.	:	-54.500
PM. R.A.	:	38.000
PM. DEC.	:	-89.000
DISTANCE	:	1.550
MODULUS	:	20
RAD. VEL.	:	2.200
q1 (U)	:	-0.618
q2 (U)	:	0.786
q3 (U)	:	-0.034
dU	:	-396.054
U	:	-8.160

q1 (U)

11243

HR 3318

GC 11419

↓ Char

8 19.8

-74 46

FL 12

4.06 + 40 ~ 0.2 C

3.

153

569

947 210 + 8

947 458 + 9

.260

1261

168

.159

.521

2.673

911, 2

459

2.648

3.61 + ←

1260

.163

.510

2.660

1.50 763 + 5.8 + 180

101 1014

1.50	763	5.8	180
101	1014		
1.50	763	5.8	180
101	1014		
1.50	763	5.8	180
101	1014		
1.50	763	5.8	180
101	1014		
1.50	763	5.8	180
101	1014		

M  
MD  
(M)  
8B  
2B  
(M)

-0025 ± 2.2 -10761.8  
-0029 -105

HR3277 4 20.0 +53 23 A2 +21.2 8

70313 5.6 19459 -022 -1076  
55324 1.996 1898.6 +53 22 57.15 -024 -1055 (m/a)  
11424 128

098 249 967 2880 5.79 -023  
2.94

1169 45.4 1926.2  
1160 44.05

8.24  
53.962  
2.1255  
2.1416  
2.016  
0.03

36.7

70.54  
35.3  
39.4

462  
58.81  
-4.13

1744.54

1.459 2.019 -48  
16 105 -4  
975 396

4243

1029-091

819-5741 F03 596 -023 -105 +21.3 -087 +17 -303

019 071 013 050 -155 355 +12.7 -7 +10

-16 +30 +2

02

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