

81575  
12996  
86.240

+38.9207  
s<sub>2</sub>(4)

2 23.3 -43 46 +4100

G.40m +1.6 MS III cap

+0.5 104.7  
88 7.26

-0740 +031 Slap 1570

+2  
-0038  
+033  
104.5

-060 +040 C  
-029510 +028 ± 760

+69 -39 -7 .005

PAM  
1044 1036

-7799 0612  
6284 0006

9032  
4292

548 1036

-64  
+36

+592 -40.0

-0027 + 100  
-0043

+029 + 6.5  
+029

14.800  
130  
1.930

1401.9  
-43  
45 38.75 1895.0

-1.54  
40.32

11.62 1925.77

38.5

8084  
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45.4

18.244  
56578  
14.8219  
1841  
82

533  
14766  
-164

39.35  
39.56

506  
39.00  
+ 1.32

14.705  
0

39.12  
-30  
39.42

1555.07

2

81575.000\*

9.000\*

23.300\*

-43.000\*

-46.000\*

-0.041\*

0.033\*

8.000\*

398.107

39.900

0.248

0.026

99.919

0.005

-0.996

-37.906

-0.023

0.001

-5.910

84

3 Leo  
82395

13149  
6170

443

69

-0065 -083 N30

-0064 ± 1.2 -088 ± 1.1 62 → N30

378

was 70

-0638 -0826 P125

-00645 -0851

-0936 -0826

9.5  
+11.5

206

1196 909207 N12

-00642 -0851

-9.5  
-11.5

-0443

7920

-7266

1249  
~~0888~~  
-7108

444 5065  
4.47

-0937081

6106

-6871

-7.1  
3.0

+29.4

-95.7

-82.6  
4.47 7358

+29.4 (F)

9 29.3 +11 31 5.1 9M1 +29.44

		500
		500
		100
R.A. :	9.500	00
DEC. :	11.500	00
R.A. :	-95.700	11
DEC. :	-82.600	10
STANCE :	4.470	
ODULUS :	78	
VEL. :	35.800	

q1 (U) :	-0.733	
q2 (U) :	0.379	
q3 (U) :	0.565	
dU :	177.717	
U :	34.148	

q1 (V) :	0.057	
q2 (V) :	0.862	
q3 (V) :	-0.503	
dV :	-363.066	
V :	-46.460	

q1 (W) :	0.678	
q2 (W) :	0.337	
q3 (W) :	0.654	
dW :	-432.993	
W :	-10.513	

SS

SS

3864 9 41.7 +1906 -0.68

+3-58

+3  
-58  
530  
-0.6

10002 -058 (A)

89252

1214957 763

~~-00052 -0618 76~~

1.228 983 265 MF

~~-00048 -0603~~

~~00053 -0590 9.7~~

1209 965 261

~~-0075~~

+1914

-007055

→ 0  
-55 -08

0000 -053

60053

70004 -0517

-0.0

9811 7340 1050  
1186 -9610 0107

000-045

-0006

78261

-0.0

43.340 2.9 0220 39.74 36

0220  
0220  
0220

280  
4267

-00045.9 -06055.4

43.338  
361

72.47

28.8  
25

-55  
-50  
-84

43.336  
254

65.11

34.16  
23

43.357  
310

33.2

41.90  
40.98

28

R.A. : 9.700  
DEC. : 19.100  
R.A. : 3.000  
DEC. : -58.000  
DISTANCE : 5.300  
MODULUS : 115  
VEL. : -0.600

q1 (U) : -0.757  
q2 (U) : 0.313  
q3 (U) : 0.573  
dU : -96.288  
U : -11.399

q1 (V) : 0.092  
q2 (V) : 0.920  
q3 (V) : -0.381  
dV : -251.673  
V : -28.667

q1 (W) : 0.647  
q2 (W) : 0.236  
q3 (W) : 0.725  
dW : -56.141  
W : -6.881

86



86839

10 00.3 +71 07 d62 -3278 w(3)

6613802

P.3

w6383

w(+4.3)

72370

7710525

-109 -197 6c

-111 -213 GAz

-110 -200

7554	-7824	}
6530	-954	

23 ± 9 (6.22)

-022546.5 -197710.0  
-0255 -216

499-867 946 324 -110 -200 -37.7-189-36-305

055094095 164 -516 855 -12.2 -11 -6

15.556 15043 +71 6 44.22 1908.8

1.028  
8.12

-18 +44-53 018  
**+12 -69-16**

16.584

52.34  
-74 +39 02

15.641

44.75 1945.17  
-23 +54 015

-101

44.49

-33 +69 -62 012

1.044

**+29 -95 -11**

98218  
6C13361  
W6429  
Y2388

370 10 07.4  
3992  
PAB  
0854 4018

-35 37  
6.12 +0.58 - Cape  
6.12 +0.58 +16

440.90 W(7)  
11.5  
890 113 43-225 2.591

-30-06124  
HR3992

6.14 +0.60 (+1.70)

2437 +001 Gc  
-435=5 +0035 Daye

-0362

+57 -51 -24 .030  
+43 -48 -17 .040  
+31 -45 -11 -050  
+59 -48 -21 .035

-4415  
-439 +010

+496  
+4.1

Carbury

474(10)  
406(8)

0387 +012

-435 +012

4257

6.15 397 145 322-2.594 60  
1123447  
6.18 390 165 485

6992 -9996  
40288  
73410  
4750  
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22.335 19083

1.443

23, 828

-0358 ± 4.2  
-0359

-35

+0017 4.4  
+009

36 39.38 1907.2

-05  
39.43

22.739

1.759

853

426  
- 1.402

39.2

39.34 1951.00

+16

39.18

39.08  
+ .35

94.98

47.5

40.3

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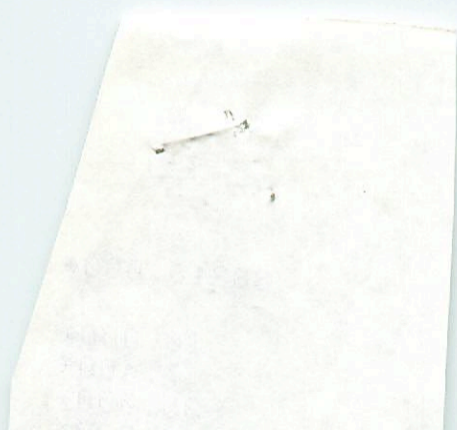
0.96

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155.5.58

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7.400\*

25.000\*

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200

1.8 2.5 1.9  
 31.6 234 1.200\*  
 17.378 (605)  
 40.900

1.695  
 0.005  
 29.672 (22)  
 -0.332  
 -0.960  
 -45.008 (52)  
 -1.161  
 0.282  
 -8.657 (105)

R.A. : : : 10.100  
 DEC. : : : -35.600  
 FM. R.A. : : : -535.000  
 FM. DEC. : : : 12.000  
 DISTANCE : : : 1.360  
 MODULUS : : : 19  
 AD. VEL. : : : 42.200  
 q1 (U) : : : -0.799  
 q2 (U) : : : 0.601  
 q3 (U) : : : 0.009  
 NP : : : 1601.515  
 U : : : 31.847  
 q1 (U) : : : 0.161  
 q2 (U) : : : 0.228  
 q3 (U) : : : -0.960  
 NP : : : -318.279  
 U : : : -46.477  
 (M) : : : 0

-25



1951  
Σ  
272 202 246 2543  
278 202 246 2543

+42.2 50.6 45,  
+41.3 8 w(3)

10 11.2 -32 47 26.0

88742

GC14042 WPB 6.35 +0.58 +1.68 Aley

W6453 6.38 +0.50 +1.70

RF: 195  
Landing  
0293 1061  
GIE 18

-3207158

6037 376-418 600

02925 +0575 604

991 617 011

-365 +056 60

-368 1059  
+41.8

366 +067

+32 -45 0 .050

155

64x1 -9993 363  
7184 -0324 490

51x(12)  
45007  
4357

~~457 889~~

-0289 ± 3.5  
-0296  
+056 ± 2.9  
+059

*[Handwritten signature]*

457-889 -542 841 -365 +056 +41.3 -030 -22 223  
127014324027 463 1601.3 ~~437~~ -31 +16

-18 +48 -18  
+32 -45 0 050

12.070 1007.8 -32 47 3.97 1905.1

1.720  
13,290  
12.355  
+16  
371  
4238  
35.5  
4.47  
+18  
4.29  
6.48  
1439.00

791  
3.96  
+2.50  
473  
42.2  
91.59

12.119  
+2.50

1.867  
0  
-1.171  
03.46  
-14  
03.62  
4555.47

1918

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88742.000\*

10.000\*

11.200\*

-32.000\*

-47.000\*

-0.366\*

0.063\*

1.550\*

2187

20.417

41.800

1.576

0.023

+35.4

33.161

-0.221

-0.945

143

-44.007

8/8

-0.752

0.327

2A

-1.680

254 MA  
90250

10 22.9 +35 41 ♀ 110 +11.48W(3)

GC14312

6.49 +1.05 +0.99 N III R

W6548

W(10.9)

2.246N

42

42

-110

-071 -66

+0.37 2A

+51 -54 -23 .008

+47 -49 -19 .009

063

10087

0517

9457

0724

4280

3237

111

Cumby

106=057

584 E12

-0089 A 2.0

52.257

1845.5

+35

40

49.90

1889.8

34

411 - 912 584 812

-110 -071 +11.4 -041 +6.7

-27.5

393

045 017 800 037

034

554

-8.5

+3.8

-3.1 +81.5 -32.7 007

-0.3 71.7 -15.2

-1.5 -36.5 -24.6

2.7 -13.3 -15.2

-0.4

02.1 -9.7

-2.3 -26.5 -0.6

+4.4 -9.6 -5.7

+56.2 -62.6 -25.5

+4.7 +59.2 -20.5

01

+42.0 -41.4 -15.2

-3.7 +73.1 -27.7

08

+51.1 -55.3 -21.6

-0.3 64.3 -12.9  
-1.5 -32.7 -20.8  
3.2 -11.9 -12.9

Card 4  
90250

-0089±20 -071±1.8  
-0083 -066

52237 1895.5 | 735 40 49.50 1554.8  
485

52,722

25.69  
26.870

52,560  
473

1471

450  
-272

5241

430

4.27  
54.17

28.0 1426.3  
-35.46

32.7

52,557  
-68

51.182

564  
28.2  
35.4

07

51.4 1930.1

1145  
514

51.64  
-2.53

580

-5 46  
-5 59  
-6 15.01

10 19.4  
10 21.6  
10 24.2

-53063

Y 2447

31c(G)

88(10)  
1758

LPM 349

273 0.93 0.70

Y 2447

③ Sample

+2719  
2919 ① Inf

E.B. Tax. -0.27 -0.658

9.7 K8 +7.7

+0.032

+0.012 -0.652 CR

600 - 644 Contribution

-0.008 -0.655

8<sup>4</sup>  
8<sup>6</sup>  
8<sup>55</sup>  
8<sup>7</sup>

27

249279

-606 -645 6(2)

8241

-610 -600

8551

-2610

-9640

10

6206

1713



0545

108✓

-21.6

57.9

-12.2

8/

500.000\*



90



.A.	::	10.450
EC.	::	-26.200
.A.	::	0.000
EC.	::	0.000
NCE	::	0.000
LUS	::	10
EL.	::	0.000

(U)	::	-0.828
(U)	::	0.559
(U)	::	0.040
du	::	0.000
U	::	0.000

(U)	::	0.219
(U)	::	0.390
(U)	::	-0.094
du	::	

-002h 2233 (written)  
-098+031

91706 10 32.6 -02 55 QFS

H0P4149 APR 28 34 +10 +10

6614546 APR 28 34 6.12+48+005 2599 +14.5

APR 28 34 +11K+11K (4) own

[m] 213 +20 1313 -157 -557 2622 2422

[y] 494 180

3.20 +21.1 -12.3 +0.6

+12.16

+469 -42 -123

+1.8 43

-00730 +0315 ±3.0

9268 434  
3774 -0804  
9918

-00738 +0327  
364  
110.7  
-1020  
-100+036

f

112  
L12 309 146 527  
245  
L13 245 249 341  
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10110  
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607  
125  
1011

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4143.000\*

13.000\*

32.600\*

-22.000\*

53.000\*

$28.3 + 2.9 = 31.2$   
 $28.3 - 3.64 = 24.66$   
 $-0072 \pm 3.1 + 030 \pm 3.2 = -0072 + 030 = -0042$   
 $-0074 + 088 = -0014$

$412.16$   
 $6.2$

91706 10 32.6 -22 55 6.2 dF7

14546 6.10 +0.47 +16.4

6619 34.776 1903.4 -22 55 4.10 1902.2

$$\frac{336}{35,112}$$

$$-00739 + 0327$$

33.6

$$\frac{865}{247}$$

$$\frac{34.835}{17} = 2.049$$

1.44  
 6.10  
 1.75

1934.33

$$\frac{4.22}{4.22} = 1$$

1393

$$\frac{20.15}{4.22} = 4.77$$

$$\frac{1021}{-100 + 0037} = -10.21$$

1021

$$\frac{4.77}{4.77} = 1$$

$$\frac{4.77}{4.77} = 1$$

$$\frac{370}{34.8} = 10.63$$

$$\frac{9241}{3821} = 2.418$$

$$\frac{-9515}{3076} = -3.093$$

$$\frac{0.127}{0.127} = 1$$

4.174

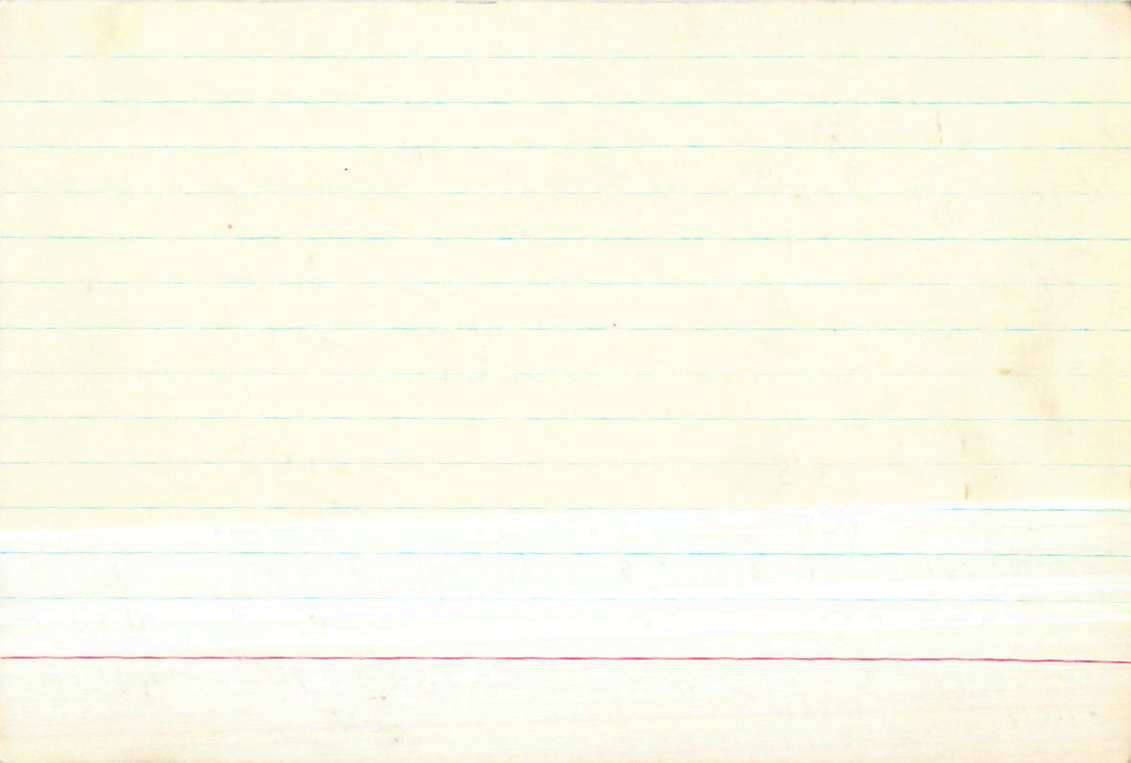
$$\frac{34.866}{6.75} = 5.164$$

$$\frac{6.20}{4.60} = 1.348$$

$$\frac{4.77}{4.77} = 1$$

$$\frac{4.77}{4.77} = 1$$

$$\frac{370}{34.8} = 10.63$$



93083

FD915

2.055

10 42.0

-33

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+41.7

C4

8.30 + 95 (2.08)

1097 959 046

DFM

10.7

-104 -138

-333

-0070 -152

-109

-088 -152

-184

295

Wm

41.7

x 913

1756

5336

-4870

8457

-8767

-1040

2956

R.A. : 10.700  
DEC. : -33.300  
PM. R.A. : -124.000  
PM. DEC. : -138.000  
DISTANCE : 2.000  
MODULUS : 25  
AD. VEL. : 41.700

q1 (U) : -0.845  
q2 (U) : 0.529  
q3 (U) : -0.075  
dU : 68.832  
U : -1.388

q1 (V) : 0.260  
q2 (V) : 0.285  
q3 (V) : -0.923  
dV : -314.034  
V : -46.363

406

-5  
~~100~~ 59  
-34

qr

-32

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M : -14.184  
 QM : -570.034  
 S3 (CM) : 0.378  
 S5 (CM) : 0.788  
 P1 (CM) : 0.497

N : -20.092  
 QN : -310.090  
 S3 (M) : -0.258  
 S5 (M) : 0.502  
 P1 (M) : 0.500

N : -4.581  
 QN : -50.811  
 S3 (M) : -0.072  
 S5 (M) : 0.250  
 P1 (M) : -0.040

SAD. VERT. : 41.700  
 MODULUS : 20  
 DISTANCE : 5.620  
 PM. DEC. : -125.000  
 PM. P.A. : -192.900  
 DEC. : -33.300  
 P.A. : 10.700

R.A. : 10.700  
DEC. : -33.300  
PM. R.A. : -105.000  
PM. DEC. : -152.000  
DISTANCE : 2.950  
MODULUS : 39  
RAD. VEL. : 41.700

q1 (U) : -0.845  
q2 (U) : 0.529  
q3 (U) : -0.075  
dU : -29.911  
U : -4.281

q1 (V) : 0.260  
q2 (V) : 0.285  
q3 (V) : -0.923  
dV : -313.360  
V : -50.665

q1 (W) : 0.467  
q2 (W) : 0.799  
q3 (W) : 0.378  
dW : -770.094  
W : -14.184

92



528195  
-0342 = 512  
-138

-145 ± 4.5

94718 10 53.6 + 25 0 / 8.6 d 66 + 5.48

15034 G119-42  
-4845 454503 -330

6774 34.455 1996.1 + 28 0 30.65 1893.7

8.40 + 0.13 + 0.24 1.843  
36.298

~~4880~~ 520  
20  
534

35.168  
21  
1.89

153  
1.145  
33.1  
6.6

34.29 1928.72  
-20  
34.09  
5832  
29.2

B211451  
502 35.09  
27  
1.117

1341 - 1341

33.9 1530.1 (35.5)

d 230  
1117

452 - 134

-15  
33.75 973 - 9788 470

0.04  
-512  
134  
3.60 5.54

33.92 2020 - 2048 1012  
33.92  
-4.89

93





10.999

12 ~~25~~

229

11055

10 541 + 7 19

1109 1746

13.53 + 201 + 455

500

~~3957~~ 2555

3840 2648 II

9175 - 8615

3577 - 5077

FOGA 419 21500

46766

110210

178 (4)

11054

11011

154 (3)

1103

175

1104

1108

1106 1780

101

101

WWT

95272

17.3272

HA 4287

FD

57.3

PKS

-460.8 + 129.5

-18 02

10.8

+38.5 (3)

+46.4 (10)

-485

+130

2.2

+12.7

9991

3150

9723	4783
2336	-0183

+2302145

571

11 11 11

94

Cost: 0.2838

10.250	R.A.
-18.850	DEC.
-485.000	R.A.
130.000	DEC.
3.200	STANCE
50	DOLLARS
42.700	VEL.
-0.858	P1 (U)
0.218	P2 (U)
0.018	P3 (U)
0.018	BU
110.462	U
0.300	P1 (V)
0.253	P2 (V)
-0.150	P3 (V)
-0.150	BU



SIN  
COST: 0.2336

R.A. : 10.950  
DEC. : -18.050  
R.A. : -485.000  
DEC. : 130.000  
STANCE : 3.500  
DULUS : 50  
VEL. : 42.700

q1 (U) : -0.858  
q2 (U) : 0.513  
q3 (U) : 0.014  
dU : 2191.985  
U : 110.462

q1 (V) : 0.300  
q2 (V) : 0.523  
q3 (V) : -0.700  
dV :

444.472-157 4111

11 3.2 +44 12 36

11 8.532.5 +43 41.06 115

28 10006 1.31

19 ~~444~~ -115

11.05

Sum=11.63 404

+43.7

8.789

-830

205

-400

0.10

-622 -445

11.5

201

970,

11.1

10.1

8.95

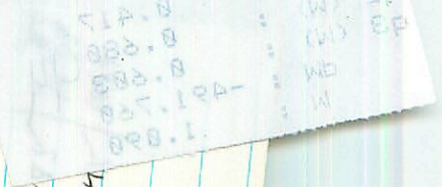
18- 1000

2500

100012

062M

(100)



M  
MP

95





with  
for  
1) 130 (1)  
25 247

LEO  
994  
MS- 2540  
8818 - 10001

912- 2411 -

his  
of  
3000  
100  
200



Waf 386

11 21.2 + 8 50 + 44 (3)

G10-19

MIN

$$11.18 + 1.485 + 114 \text{ (1)}$$

$$10.14 + 0.815 \text{ (2)}$$

$$\frac{976}{5.7}$$

$$(1.5)$$

$$1.56$$

+49c

-1040 +150 waf

-965 +150 RPM

-1025 +160 Buckle

-1010 +190  $\pi(V)$

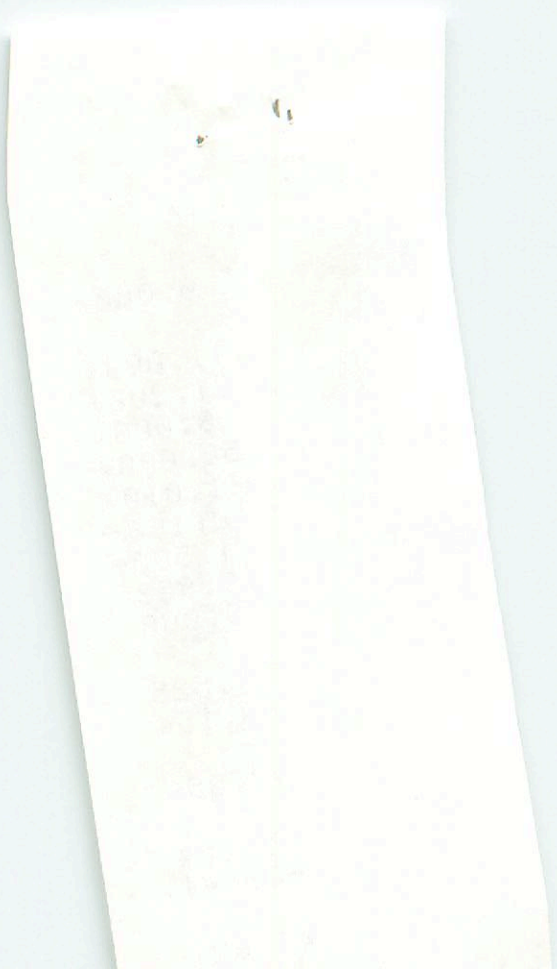
-1010 +160

.031 (18)

9589	-9973	10190
7834	0734	-0654



96



0.000\*

11.000\*

21.200\*

8.000\*

50.000\*

-1.010\*

0.160\*

1.500\*

19.953

49.000

4.525

0.154

97.856

-1.104

-0.441

-43.621

W 627

11 21.7 +21 39

+52.06  
+28 comp

14.24 +0.31 -0.522

451 (2)

$$P_c = 264$$

$$P_o = 270$$

$$P_c = 28$$

$$P_o = 52$$

ppw(g)

-1.23 0.00 C=20

4563

2924

1.1000

0060

166 - 986

986 444 369 930 - 1.23 00 + 28 00 + 10 00

~~-1.213 0 204 0 5.247 967 + 26.0 - 4 - 26~~

204 0 2.213 0 967 5.247 + 26.0 - 26 + 4 056

- 9 + 107 + 10

+ 98 - 44 - 4

99196

G<15670

N 6864

+12°2335

HR4404

11 22.4 +11 42  
580 579 49 090

5.79 +1.38 +1.57 K4III R

R-J 0.501

0.5

+0.5

E(6.8) +0.11  
+0.22  
+0.16

+75 -55 +9 .006

+66 -49 +12 .007

+51 -41 +16 .009

100.8 -008

-100-008

-102  
-6.0  
+38.0

5.78 0.838 0.674 -0.486

-00715 -0135 G<P  
-012

5.11 +0.53

473

405 -1.35

6.05

=105

-103-008

GR4

N(10.2)

35755 105.4

3595 105.45

-106 -0.14

E = 0.12

0.225

V0 570 (R-10) = 135

+37.0 (B-V) = 135

9615 9981 0993

6.02746

0.611

5.41

0.611

-0072.2.7  
-0071  
-014.2.2  
-013

23.367  
1901.9  
+11 42  
18.65  
1500.8

$\frac{346}{713}$

$\frac{19.34}{69}$

18.87  
1933.0

$\frac{78.58}{1}$

18.77  
1940.88

23.442  
504

$\frac{14.62}{487}$

23.424  
+9

$\frac{487}{-226}$

31.8

$\frac{18.86}{+9}$

32.71  
1927.33

$\frac{101.21}{33.7}$   
32.9

5.534  
18.002

$\frac{536}{23.20}$   
1914

525

$\frac{18.79}{-22}$   
26.9

$\frac{18.57}{+38}$   
18.95

$\frac{18.90}{-44}$

4404

11 22.4 +11 42

-0072#2.7 -014#2.2

4900

23.867 1.9

241

113

-0002

-0002

0069-01 ✓

0106

000001-000006

0004

0101

23.247

20

267

66.47

18.69

1934

18.81

18.44

18.65 0.8 -0.14

69 -0.10

1934 -0.12

1.315 1.173 267 MF

23.244

66.47

18.81

+11.7

1300

0101

0001

266

23.424

40.88

18.77

-0

-102

400

∇

1300

400 mg

110 200

18.81

17.63

6.7

38

18.81

18.81

18.81

11.4



4404 // 22.4 +11 42 104 103

94196

15670

6669

5.80 + 138 + 1.60

5.11 + 0.52 = 3.14

$$\begin{array}{r} +2 \\ 6.3 \\ 505 \\ 507 \\ 49 \\ 39 \\ 4.00 \\ 6.00 \\ \hline 1.2 \end{array}$$

$$\begin{array}{r} 584 \\ -1072 \\ +43 \\ \hline -1057 \end{array}$$

-1057

104 - 010

5050  
649

8589

(BH)

54.4

3LH  
9.5  
1.5LH  
0LH  
LH

2.4

830  
200

66  
020

668

686  
571  
629

165

874  
274  
054

44

97

R.A. : 11.400  
DEC. : 11.700  
PM. R.A. : -102.000  
PM. DEC. : -8.000  
DISTANCE : 6.000  
MODULUS : 158  
AD. VEL. : 38.000

q1 (U) : -0.872  
q2 (U) : 0.459  
q3 (U) : 0.167  
dU : 395.655  
U : 69.052

q1 (V) : 0.368  
q2 (V) : 0.842  
q3 (V) : -0.395  
dV : -206.021  
V : -47.645

q1 (W) : 0.322  
q2 (W) : 0.283  
q3 (W) : 0.904  
dW : -163.069  
W : 8.491

586  
1688  
471  
859

97



8.200	:	R.A.
11.200	:	DEC.
-95.000	:	PM. R.A.
-81.000	:	PM. DEC.
3.000	:	DISTANCE
40	:	MODULUS
29.400	:	RAD. VEL.
-0.700	:	p1 (U)
0.379	:	p2 (U)
0.295	:	p3 (U)
178.204	:	q1
23.704	:	u
0.027	:	p1 (V)
0.082	:	p2 (V)
-0.203	:	p3 (V)
-329.241	:	q1
-38.282	:	u
0.278	:	p1 (W)
0.227	:	p2 (W)
0.254	:	p3 (W)
-428.237	:	q1
2.175	:	u

R.A. : 9.500  
DEC. : 11.500  
PM. R.A. : -95.000  
PM. DEC. : -81.000  
DISTANCE : 3.000  
MODULUS : 403 *48*  
RAD. VEL. : 29.400

q1 (U) : -0.733  
q2 (U) : 0.379  
q3 (U) : 0.565  
dU : 178.204  
U : 23.704

*27*

q1 (V) : 0.057  
q2 (V) : 0.862  
q3 (V) : -0.503  
dV : -356.341  
V : -28.982

*36*

q1 (W) : 0.678  
q2 (W) : 0.337  
q3 (W) : 0.654  
dW : -428.237  
W : 2.175

*88*