

178494 19 06.7 -21 33 1664 -416 -416
-416 -416 60(4)

5C26383

4.21 + 0.13 + 0.12 (3)

W11610

8.7

8.14 + 6.4 + 1.70 / n^{24} "

74461

-2405273

-254 -373 60

S = 0.6

Calculator

-0.92 - 376

-748 - 376

-6 -143 +35 .015

+8 -108 +25 .020

+16 -78 +22 .030

-788

-376

790(4)

40(8)

790 -2455

-1845 -9765

385

416

2459

-0152 = 6.3
-0184
-372

8.40
64
60
+79

41.314 1898.7 -21 32 45.68 1892.2

933

+21.56

~~42.247~~

24.12

41.579

39.81 1533.60

~~575~~ 1363

39.25

1237

1925.1

~~24.505~~
41.820

58.5
20.65

581

589
29.9

30.7

~~455~~
47

37.83
1.56
26.223

37.96

37.2

~~798~~
682
-365

36.06 -13.84

R.A. : 19.100
DEC. : -21.550
R.A. : -288.000
DEC. : -376.000
DISTANCE : 3.850
MODULUS : 59
VEL. : -41.600

q1 (U) : 0.312
q2 (U) : 0.149
q3 (U) : -0.938
dU : -662.465
U : 0.022

q1 (V) : 0.345
q2 (V) : 0.903
q3 (V) : 0.258
dV : % -2046.012
V : -131.222

34
q1 (W) : -0.885
q2 (W) : 0.404
q3 (W) : -0.230
dW : 404.370
W : 33.389

24 Aug 6-11 108 +0005 = 2.6 +010 £ 2.3
 181053 19 16.3 +00 15 6.5 669 -28.56
 26629

11764 17.405 1899.3 +0 14 46.96 1895.5
 -025

3221 17.436 46.43 1934.2
 5 44.59 23.
 441

17.419 46.82 418
 -11 46.70 37.1
 408

17.419 46.82 418
 -11 46.70 37.1
 408

17.419 46.82 418
 -11 46.70 37.1
 408

17.419 46.82 418
 -11 46.70 37.1
 408

250 256
 -22.16 2586
 -2526 2585/4107

10011 1013 37.8
 1016.6 013

37.8

2497 8815 0207
 -9686 9721 1004

46.82 418
 46.70 37.1
 41.6

35

2 Dec
7352

45-48
1.270
42-45
1085
41-42
895
5-5
484
Cm = 402

Reman
78 III

191484
26635

1.430858 632
4.45 +1.25 +13535 322 70415 35

-03259 +1114
-158 + 17
-03326 +1131
+1453
-047.3
-0413 +112

280
Fm

335
277
111
892
P.S.
415

13327
13333
+1126
+1121
486

-1422
138 +110

1.270
1.084
+5
+10
304

1442
-140 +111

7111
4.50
-28.0

36

1663
282
1464
1338
3386
477281

18264
1464
3386
477281

40
47
40
47
40
47

564

20

7352.000*

36

19.000*

16.500*

73.000*

16.000*

-0.043*

0.112*

3.900*

60.256

-29.700

0.411

0.232

17.863

-0.249

0.882

-41.224

0.304

0.410

6.139

19.250
 79.250
 -884.000
 111.000
 4.200
 79
 -28.000
 0.344
 0.210
 0.231
 250.482
 13.422
 0.322
 -0.342
 0.882
 -322.400
 -29.821
 -0.882
 0.222
 0.412
 202.844
 44.222

W : 44.222
 QM : 202.844
 P3 (M) : 0.412
 P2 (M) : 0.222
 P1 (M) : -0.882
 U : -29.821
 QV : -322.400
 P3 (V) : 0.882
 P2 (V) : -0.342
 P1 (V) : 0.322
 U : 13.422
 QV : 250.482
 P3 (U) : 0.231
 P2 (U) : 0.210
 P1 (U) : 0.344
 RAD. VEL. : -28.000
 MODULUS : 79
 DISTANCE : 4.200
 PM. DEC. : 111.000
 PM. R.A. : -884.000
 DEC. : 79.250
 RA. : 19.250

36

7352.000*

19.000*

16.500*

73.000*

16.000*

-0.138*

0.110*

3.900*

60.256

-28.700

96

0.245

0.232

73

56.2

58

0

77

7.869

-0.389

0.80

36

R.A. : 19.250
 DEC. : 73.250
 PM. R.A. : -486.000
 PM. DEC. : 111.000
 DISTANCE : 4.500
 MODULUS : 79
 RAD. VEL. : -28.000

q1 (U) : 0.344
 q2 (U) : 0.910
 q3 (U) : 0.231
 dU : 250.482
 U : 13.427

q1 (V) : 0.322
 q2 (V) : -0.345
 q3 (V) : 0.882
 dV : -395.400
 V : -56.091

q1 (W) : -0.882
 q2 (W) : 0.229
 q3 (W) : 0.412
 dW : 706.046
 W : 44.555

014

462

146

V

579

478

2 dia

445 125

-280 F 27

181984 19 16.5 +73 16 4.6 9184 -2978

26638

FMS
-0320 + 109 Supp

11774

NO₂ -0337 82 +112 74 N30

9352

-0337 ± 0.9 +111 ± 1.0 GC → N30

13 ± 5

1.071159 356

W8 50

OK

903

-03225 +1125

f 1.001

m 632

k 655

R-5 414

03198 +1091 +FMS

+73.25

-439.5

m 858

13882 4091

-469.5

+1109.1

f 1.430

1252 +1167

+110.7

417

f 1.430

1252 +1167

5.50

-280

45215

983 -049 g -006 m +019 k -342 m +485 s

056 488 -14 -028 404 215

112

4246

187 179 825 -051 -052 -017

150

112

27

REC.
A.
REC.
A.
ANCE
87
00.0000
18.250
73.250
-439.500
109.100
4.700

20.41-

16 17.3 + 49 29 649 509 609 611H

16241

161657
+ 4924770
M.H.

1006 1050
- 3

1003 1055

133 276
M.H.

2759 8408

11651
M.H.

4.805
0.279
0.087
-11.867
0.948
0.014
26.716
-0.153
0.246
-14.000
100.000
5.000*
0.055*
0.003*
29.000*
49.000*
17.300*
19.000*
7341.000*

82

82

$$\begin{array}{r}
 4559 \\
 181645 \\
 26700 \\
 11811 \\
 \hline
 10069 \pm 1.9 \\
 +0073 \\
 18.9 - 18 \\
 \hline
 -093 \pm 2.1 \\
 -095 \\
 24
 \end{array}$$

$$\begin{array}{r}
 6.0 \\
 969 \\
 -12.78 \\
 \hline
 6.0 \\
 969 \\
 -12.78
 \end{array}$$

26700

$$\begin{array}{r}
 55.903 \\
 1895.2 \\
 -18 \\
 24 \\
 10.22 \\
 1894.6
 \end{array}$$

$$\begin{array}{r}
 378 \\
 \hline
 525 \\
 +0073 - 099 \\
 \hline
 5.07 \\
 5.15
 \end{array}$$

Calculus

$$\begin{array}{r}
 10074092 \\
 \hline
 10.5 - 092 \\
 \hline
 28.457 \\
 27.360 \\
 \hline
 55.814 \\
 -20 \\
 \hline
 7.94 \\
 7.14 \\
 \hline
 780 \\
 289 \\
 \hline
 1427 \\
 814 \\
 \hline
 2047 \\
 -951K \\
 \hline
 847
 \end{array}$$

$$\begin{array}{r}
 10.5 - 092 \\
 \hline
 28.457 \\
 27.360 \\
 \hline
 55.814 \\
 -20 \\
 \hline
 7.94 \\
 7.14 \\
 \hline
 780 \\
 289 \\
 \hline
 1427 \\
 814 \\
 \hline
 2047 \\
 -951K \\
 \hline
 847
 \end{array}$$

$$\begin{array}{r}
 104 - 099 \\
 \hline
 56.39 \\
 46.20 \\
 \hline
 10.19 \\
 1.50 \\
 \hline
 9.69 \\
 +28 \\
 \hline
 8.41 \\
 1941.09
 \end{array}$$

$$\begin{array}{r}
 39.5 \\
 \hline
 1773 \\
 880 \\
 \hline
 -3.79
 \end{array}$$

$$\begin{array}{r}
 4946 \\
 34.7 \\
 \hline
 4980.7
 \end{array}$$

$$\begin{array}{r}
 4980.1 \\
 \hline
 4980.1
 \end{array}$$

$$\begin{array}{r}
 1773 \\
 880 \\
 \hline
 -3.79
 \end{array}$$

$$\begin{array}{r}
 8.41 \\
 1941.09 \\
 \hline
 9.62 \\
 +30 \\
 \hline
 9.32
 \end{array}$$

$$\begin{array}{r}
 7613 \\
 1396 \\
 \hline
 9009 \\
 10020 \\
 \hline
 -951K \\
 -4484 \\
 \hline
 10020
 \end{array}$$

$$\begin{array}{r}
 55.863 \\
 -16 \\
 \hline
 847 \\
 +2047 \\
 \hline
 2894
 \end{array}$$

127



1
 2
 3
 4
 5
 6
 7
 8
 9
 10

1
 2
 3
 4
 5
 6
 7
 8
 9
 10

R.A.	:	19.300
DEC.	:	-18.400
R.A.	:	0.000
DEC.	:	0.000
R.A.	:	0.000
DEC.	:	0.000

193555

20 17.9 +15 23

→ 54 Red

$\begin{array}{r} 1064 \\ 351 \end{array}$
 $\begin{array}{r} 416 \\ 194 \end{array}$
 $\begin{array}{r} 486 \\ 486 \end{array}$
 Perry

20R
 6.75 + 5.3 + 12 F55

$\begin{array}{r} 6.75 \\ 361 \end{array}$
 $\begin{array}{r} 183 \\ 183 \end{array}$
 $\begin{array}{r} 479 \\ 479 \end{array}$
 1000

10047 + 032 *Country*

$\begin{array}{r} 356 \\ 188 \end{array}$
 $\begin{array}{r} 492 \\ 411 \end{array}$

068 032

70
 32
 2.8
 → 54

$\begin{array}{r} 2375 \\ 2319 \\ 2345 \end{array}$
 $\begin{array}{r} 2215 \\ 2710 \\ 2711 \end{array}$
 326

$\begin{array}{r} 8840 \\ -818 \end{array}$
 $\begin{array}{r} 8118 \\ +5839 \end{array}$
 $\left. \begin{array}{l} 0739 \\ -0137 \end{array} \right\}$



40

194960

6028492

W12794

44869

-1905691

-5 -47 -34 .010

-7 -79 -58 .0

W12794 549 516 674

9734

194960

20 26.2 -18 02 9 68 +3.98W(4)

6.54 +1.07 +0.87 K17R

$\delta = .09$ W(+0.6)

+0026 -1165 66+

+0026 5 920+

194960
6028492
W12794
44869
-1905691
-5 -47 -34 .010
-7 -79 -58 .0
W12794 549 516 674
9734
194960

R.A. : 20.300
 DEC. : 15.400
 P.A. : 12.000

9,469 1895.4
 - 153
 9,316

+0028 ± 2.2
 +0022

-117 ± 2.4
 -116

-18 2 27.46 18950

644
 21.02

3

43.787

25.645

9.432

3.97

3

394

9.442

422

816

408

092

422

22.64 1934.44

55.85

26.24

25.33

25.22

26.94

24.71

25.96

4.94

1193

140.78

2519

37.6

42.6

1301
1302
1303
1304
1305
1306
1307
1308
1309
1310
1311
1312
1313
1314
1315
1316
1317
1318
1319
1320
1321
1322
1323
1324
1325
1326
1327
1328
1329
1330
1331
1332
1333
1334
1335
1336
1337
1338
1339
1340
1341
1342
1343
1344
1345
1346
1347
1348
1349
1350
1351
1352
1353
1354
1355
1356
1357
1358
1359
1360
1361
1362
1363
1364
1365
1366
1367
1368
1369
1370
1371
1372
1373
1374
1375
1376
1377
1378
1379
1380
1381
1382
1383
1384
1385
1386
1387
1388
1389
1390
1391
1392
1393
1394
1395
1396
1397
1398
1399
1400

104960.000*

20.000*

26.200*

-18.000*

-2.000*

0.037*

1.19*

25 mic
 195569 20 30.5 -44 41 5.3 6.5 +8.77
 28588

+0011 ± 5.2
 +0005
 -040 ± 40
 -036

12844 29.331 1909.5 -44 41 14.12 1905.6

+ 2.78
 12.34

010.3 -0428
 PMS ⑤

13.38 1440.33
 6 9720
 133 48.6
 73.0

611 29.329
 1074 81 198
 313 43
 1817

39.1

29.317
 -18
 299
 306
 +020

12.87 1956.87

9712 -0307
 2341 -9988
 13.95
 13.66 = 1.32

0430
0096

42

R.A. :
DEC : 29.500
R.A. : 44.704
DEC : 14.000
R.A. : 13.000
DEC : 13.000
R.A. : 3.000
DEC : 10.000
R.A. : 6.700
DEC : 10.000

1 (U) : 0.784
2 (U) : -0.115
3 (U) : -0.203
4 (U) : 50.200
5 (U) : -1.000

6 (U) : 0.117
7 (U) : 0.203
8 (U) : -0.115
9 (U) : -0.203
10 (U) : 50.200
11 (U) : -1.000

R.A. :
DEC :
R.A. :
DEC :
R.A. :
DEC :
R.A. :
DEC :

1 (U) :
2 (U) :
3 (U) :
4 (U) :
5 (U) :

6 (U) :
7 (U) :
8 (U) :
9 (U) :
10 (U) :

R.A. : 20.500
DEC. : -44.700
R.A. : 14.000
DEC. : -43.000
TANCE : 5.000
DULUS : 100
VEL. : 8.700

11 (U) : 0.584
12 (U) : -0.115
13 (U) : -0.803
dU : 50.936
U : -1.895

q1 (V) : 0.117
q2 (V) : 0.992
q3 (V) : -0.057
dV : -196.590
V :



43

20828

14.85.31

20 40.1 19 05

10.501
563

028-2674

5.11
+8

6474
-760
1.11
+5

44

RAID	VEL	D3 (M)	D5 (M)	D1
MODULUS	17.128	10.853	0.001	
DISTANCE	-829.000	10.853	0.001	
DEC	270.000	0.010		
R.A.	-10.000			
PM	-50			
DEC				
R.A.				

R.A. : 20.650
DEC. : -19.100
PM. R.A. : 679.000
PM. DEC. : -860.000
DISTANCE : 1.150
MODULUS : 17
RAD. VEL. : 5.000

q1 (U) : 0.610
q2 (U) : 0.251
q3 (U) : -0.752
dU : 829.225
U : 10.323

q1 (V) : 0.091
q2 (V) : 0.920
q3 (V) :
dV :

158469 20 48.9 - 78.18 9.4 F675

① -25-

44011459

0032-1026

② 9.112 ③ ok

988 336 226 645 0320

208 5c -

031-124

48.2

PPM

-46.5

10090-132

040-132

109

2.112 323 265

25

980 347 162 323 265

60 -102

5 (4.8) 100

Mr. S. S. 5.17

6.0

185
-0.539
-0.538
-0.537
-0.536
-0.535

45

R.A. : 20.800
DEC. : -48.200
PM. R.A. : 60.000
PM. DEC. : -132.000
DISTANCE : 6.000
MODULUS : 158
AD. VEL. : -25.000

q1 (U) : 0.634
q2 (U) : -0.128
q3 (U) : -0.763
dU : 200.098
U : 50.786

170
q1 (V) : 0.065
q2 (V) : 0.992
q3 (V) : -0.112
dV : -608.112
V : -93.573

q1 (W) : -0.771
q2 (W) : -0.022
q3 (W) : -0.637
dW : -132.552
W : -5.091

MS

128 III

198752 20 50.5 -36 23 713.44 346

+13

0031 -0.9 746 →

437

+40

4037 -062

7.0

Not used

map



46

-0.142

-0.634

-43.338

198752.000*

20.000*

50.500*

-36.000*

-23.000*

0.037*

-0.062*

7.000*

66
207

251.189

4.000

0.102

-0.767

118

22.536

-0.282

0.094

4/6

58

-70.460

-0.165

-0.634

-37

-43.972

+ 361. 883-87 20
DM = 2m 14/20 Apr 95, 201

54.5
58 6.2

+ 39 30
+ 39 52.32

2070
AA P200/105
AG 83/148

Rapid motion 0.1 VAGN/10/1

- 30.7 10/10/10

- 37.9 10/10/10

10.2 Nov. 18.8

FM 54 4615-268

ip 10/10/10

2350 2306
- 9452 - 9422

66250

20 58.2 +39 53

-572W(3)

W13193

10.10 +1.50 - 899

Y5043

DM=2.0
suspect bin

DE 0113 01

10/13
10/13

Pr 24.33 WJ

762 224

clean

+22 -59 -28 .08

+23 -58 -36 .072

wh 5000

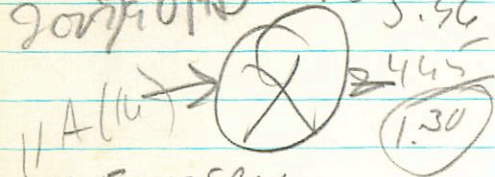
20000

67M110
80Y416
2258

13253 8077 21 03.0 405 46 60 d f 7 - 226

29451 -153 (2) (458) 405 -20

200790110 -13.9 (2) 5.96 + 54 + 02 3 20" -14.1



17159 130
-088 -130
-064 ± 2.2 -127 ± 20
-0625 -1275 0.4

0060 -125 -20;
-0895 58.001 1896.6
345
344

34.32 1895.5
642
47.24

-087 -128

58.092
018
10

58.085
+ 7
58.078
268
-060 -129
+ 2 + 2
-061 -127

35.35 1940.04
+ 04
35.39
7.91

2602 19340
+ 12
36.44

Handwritten scribble or mark, possibly a signature or initials, located in the upper middle section of the page.

Handwritten mark or signature, possibly the letters "H" and "A" combined, located in the bottom right corner of the page.

100
+18
3.0 + 5 46 F=8

200250
HR 8077

5.56 + 54 + 2 ~~54~~
3544

7891
-057-130
400630

0-025451
4 Equ

350.170.4212504.2.625
354 +23 123 64 220
-00630 -1240
-10607 -2167
303
-0402 -088-220
2088
91414

[M] 233 +20

[L] 35 / 163 / 83 20

3 Cit

-220
-15.0

677 589-501 2016 -3219 -6235 -173 +11.0
018 671 742 -0066 -4007 -4073 -88.0 -16.3
-736 516 445 +3279 -3046 +0233 +183 +49.8

200253
HRP0074
Ceeqer

FRD-19.8
Vog fish

1219559

82219.5
-094-126

345
58001 961
-0060
-131
3432 69.5

55314

268
4200

58085
-2
083
4004
3535
+4
3534

83

-0062-124
-00597-1267

6855
-6855
-7871
155

24.858

5.758

-87.888

-138.888

2.358

38

-28.888

79.1

8.672

8.537

-8.518

-688.779

-7.712

8.821

8.574

8.738

-424.835

-27.283

-8.748

8.587

-8.441

-8.835

8.574

3343

0308

255

36.241

0275

250

9.6

11.8

-30.2

+8.5

WJ

190077

21 10.7 -19 32

21.15
~~21.10~~

11/11

-16.1
-1090

25.12

-80

202787

29798

13387

~~00514929~~

10311

218150
8150

2922
2625
1686

2396
2275

21 15.8

5.98 19.5 123 II

44.462

-801
361

59.63
44.790
44.420
44.424
424
428

435
474

44.433
10
443

+0017 ± 2.7 +015 ± 1.9
+0016 +037
155 35 6.2

9114 -18.88
-21.8 12

1890.4 +55 35 14.26 18920

~~PKS~~ ~~PKS~~

018.1 +017.1

45.2

56.6 1926.5
16.75
1335
52

7125
356
43.6

B. 97
14.04

14.52 1944.75
-28
14.24

9478 7116 2249
-3183 7026 10005
14.14 +75

49

+0016 = 3.2 -0.27 = 2.8
+0010 -0.31
-16 23 6.9 967 -35.98

202890 21 16.5

24822

13393 28.429 18953 1904.5 -16 23 26.47 1901.2

-0.73
356

6578/40 1.32
7527 25.15

5.090
23.340
28.430

261 31.3

43.95 1926.90
16.88

390
-13
377

287
+031

27.07 1865
26.22

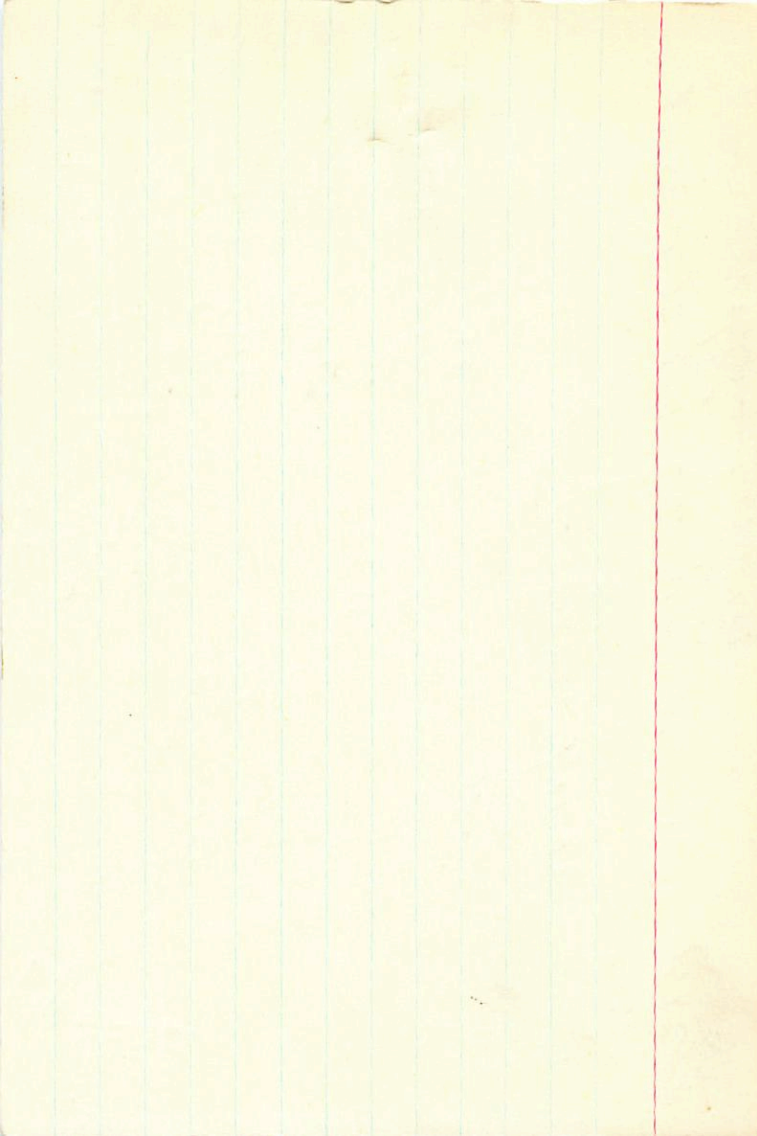
26.09 -1.07
+32

55.13
33317
218.430
-16
392

57.89
21.774
76.646
+138
26.38

28.408
-16
392

26.07 1929.46 35.8
10.753
26.50 1441.17
34.6



$+0017 \pm 3.6$ -063 ± 3.0
 $+0015$ -066
 203142 B-V 0.245 21 18.2 -21 02 7.1 dFO -7.08

29872 254142 4778 2679 (3.0) F2/3 $\frac{1}{2}$

13419 12.841 1903.9 -21 1 59.72 1901.5

-078
 $\frac{763}{47.412}$

CARLUP
 $+0018$ -069

3.06
 $\frac{56.66}{19.48}$

47.412
 25260
 12.872
 $\frac{47}{1825}$

(025-069)

19.48 193475

$\frac{19.32}{0.16}$
 $\frac{1.60}{59.16}$

(33.1)

59.16
 -1
 59.11

1391
 $\frac{37.0}{12.828}$

12.828 27
 -18 -69
 $\frac{810}{812}$ $\frac{57}{57}$

59.26 1939.16 (36.5)
 $+22$

9865
 7439

1256 0716
 -9921 0161 $+049$
 ~ 6.17 -7

$\frac{59.04}{59.08}$
 $\frac{2.42}{}$

1

50

A. : 21.300
EC. : -21.050
A. : 27.000
EC. : -69.000
NCE : 5.000
LUS : 100
EL. : -7.000

(U) : 0.707
(U) : 0.266
(U) : -0.655
dU : -2.529
U : 4.333

(V) : -0.022
(V) : 0.935
(V) : 0.355
dV : -308.327
V : -33.319

(W) : -0.707
(W) : 0.236
(W) : -0.667
dW : -161.749
W : -11.507



38 Cap
 205306 21 $\frac{+0001 \pm 2.9}{-0003}$ $\frac{-061 \pm 2.4}{-057}$ P7V
 30208 29 7.0 dF6 -12.76
 13557 6.409 1903.1 -20 28 31.31 1948.6

$\frac{-5}{404}$
 42.030
 24.428
 6.458
 49
 409
 110
 399

$\frac{-0001 -063}{-001 -063}$

33.9

3.14
 28.17
 9.63
 3850 1935.00
 31.13
 30.22
 30.27 - 2.18
 30.69 1939.06
 +26
 30.43

393
 011
 6.405
 -17
 388
 9863
 1584
 -9893
 0620
 0160
 -6.43

74.06
 37.0
 38.4

50

1.227 940 330 MF
1.222 937 329
11 Lep

45-48 42-45 41-42
1.222 950 302
2, 1.217 41.2 307 305 771 05 120 ±

8317
206952

4.55 754 -058 58-

4.57 +1.10 +1.09 35

4.10 +0.28 35

4.08 +0.37 14

4.09 +0.375 15

373
3.2

124
14
+02417 +0480
FIRY

~~+002394 +0.1047 FIRY -36.66~~

-36

30
+1158

+119 +101

+362.4

+98.0

4.01

-353

7938

-6082

+70

7705

+6374

4.01

1529 1529
1529
1529

303

-35.3



11 cap
206552

21 41.2 +71 05

2 N1

-36.66

GC30415

4.8 SW
+1.14

2.4

-37.34 (6)

W12646

4.65 N₂

1000 R

-32.713 (3)

75254

+0234 82 +107⁷³ N30

+7001153

+114

+101

6C

H18317

+0231 ± 1.1 +162 ± 1.1 Cu → N30

+114

+102

N30

+59 -58 -7 .010

-56 (8)

+24 -45 -9 .024

14A (16)

1 M (7)

6 ± 6

546 324

52

ADS15267

21 41.6 +23 37

-56.58

206792
+27 0414
13653

.0108 ~~981~~

7.47 +44 -04

~~7084~~ -0014

+35
x 10

~~3~~
083
~~3~~
1004

+2927
-0334
-2534

900.15	DEC	
899.535	A. R. M9	
899.88	DEC	
898.4	ADMATIQ	
897.38	DISTANCE	
896.25	JUV. QAR	
895.0		
894.0		
893.0		
892.0		
891.0		
890.0		
889.0		
888.0		
887.0		
886.0		
885.0		
884.0		
883.0		
882.0		
881.0		
880.0		
879.0		
878.0		
877.0		
876.0		
875.0		
874.0		
873.0		
872.0		
871.0		
870.0		
869.0		
868.0		
867.0		
866.0		
865.0		
864.0		
863.0		
862.0		
861.0		
860.0		
859.0		
858.0		
857.0		
856.0		
855.0		
854.0		
853.0		
852.0		
851.0		
850.0		
849.0		
848.0		
847.0		
846.0		
845.0		
844.0		
843.0		
842.0		
841.0		
840.0		
839.0		
838.0		
837.0		
836.0		
835.0		
834.0		
833.0		
832.0		
831.0		
830.0		
829.0		
828.0		
827.0		
826.0		
825.0		
824.0		
823.0		
822.0		
821.0		
820.0		
819.0		
818.0		
817.0		
816.0		
815.0		
814.0		
813.0		
812.0		
811.0		
810.0		
809.0		
808.0		
807.0		
806.0		
805.0		
804.0		
803.0		
802.0		
801.0		
800.0		

23

-56.5 + 82.3 464886 + 0886 - 001 -56.5 0 - 26 0 ✓
049 0 071 0 232 336 - 50.3 - 41 + 29 0105

-20 + 60 - 26
+ 39 - 57 - 5

218069

21 51.5 -30 29

G.15(18)WFD

30.18598

Very weak lined so types only
approx of units.

P 21/11
1/16 2

+0108 -209 C+J

+140 -213

+162

-213

70
166.7

6.62

172.6

289

11.6

53

NOV 1950
M (W) (E)
P 50
D 10

208502 P58 +0158 ± 2.8 +086 ± 2.4
+0101 +089
21 53.2 +53 42- 6.9 dH

30692 691 318 M 430 2700

13777 12.770 1892.8 +53 41 48.89 1889.0

6094⁴⁶ -904 866 Carlshaw 5.25
11. 866 43.64

19.50 11.2 19283
52.882 535
12.330 46.50

1412 11.62 4705 1583
414 581
44.4

12.742 746 4727 7444
4 746 37.2

9639 8179 1755
2668 5753 8149

48.96 1946.14 48.3
-37 47.92
48.559 +4.28

54

RAD. VEL. : 0.00
 MODULUS : 10
 DISTANCE : 0.000
 PM. DEC. : 0.000
 FM. R.A. : 0.000
 DEC. : 23.700
 R.A. : 51.900

U : 0.00
 Ub : 0.00
 U3 (U) : 0.13
 U2 (U) : 0.40
 U1 (U) : 0.77

p3 (V) : 0.0
 p2 (V) : -0.0
 p1 (V) : -0.1

R

V : 0.000
 Ub : 0.000

W : 0.000
 Wb : 0.000
 p3 (W) : -0.000
 p2 (W) : -0.780
 p1 (W) : -0.810

R.A.	:	21.900
DEC.	:	53.700
PM. R.A.	:	0.000
PM. DEC.	:	0.000
DISTANCE	:	0.000
MODULUS	:	10
RAD. VEL.	:	0.00

q1 (U)	:	0.77
q2 (U)	:	0.60
q3 (U)	:	0.15
dU	:	0.00
U	:	0.00

54

q1 (V)	:	-0.1
q2 (V)	:	-0.0
q3 (V)	:	0.9

dV	:	0.000
V	:	0.000

q1 (W)	:	-0.614
q2 (W)	:	0.789
q3 (W)	:	-0.009
dW	:	0.000
W	:	0.000



17.300	:	R.A.
18.400	:	DEC.
22.200	:	R.A.
22.200	:	DEC.
2.000	:	TANCE
10	:	DULUS
0.000	:	VEL.

0.324	:	1 (U)
0.308	:	2 (U)
-0.212	:	3 (U)
0.000	:	QU
0.000	:	U

0.314	:	4 (V)
0.825	:	5 (V)
0.324	:	6 (V)
0.000	:	QU
0.000	:	U

-0.881	:	7 (W)
0.401	:	8 (W)
-0.222	:	9 (W)
0.000	:	QU
0.000	:	U

MS

R.A. : 19.300
DEC. : -18.400
R.A. : 0.000
DEC. : 0.000
DISTANCE : 0.000
MODULUS : 10
VEL. : 0.000

q1 (U) : 0.354
q2 (U) : 0.206
q3 (U) : -0.912
dU : 0.000
U : 0.000

q1 (V) : 0.314
q2 (V) : 0.892
q3 (V) : 0.324
dV : 0.000
V : 0.000

q1 (W) : -0.881
q2 (W) : 0.401
q3 (W) : -0.252
dW : 0.000
W : 0.000

39

R.A. : 20.300
DEC. : 15.400
M: DEC: : 32:000
DISTANCE : 32.800
MODULES :

D. VEL. : -25.400

q1 (U) : 0.550

q2 (U) : 0.647

q3 (U) : -0.528

dU : 273.945

U : 23.369

q1 (V) : 0.151

q2 (V) : 0.545

q3 (V) : 0.825

dV : 130.996

V : -16.189

40
q1 (W) : -0.822

q2 (W) : 0.533

q3 (W) : -0.202

dW : -182.017

W : -1.481

194560

6028492

W12794

44869

-1905691

20 26.2 -18 02 9 68 +3.98W(4)

6.54 +1.07 +0.87 N.I.I.R

$\delta = .09$ W(+0.6)

-5 -47 -34 .010 +39

-7 -79 -58 .006

+0026 -1165 G6+

+00265

+037

4037 -119

+040

+057±13 -113±104

-117 66

1.694 899 Jul 27

0.170

9734 0098 194
1940
1941
1942
1943
1944
1945
1946
1947
1948
1949
1950

124(6)
8C(8)
116

+0028 ± 2.2
+0022
-117 ± 2.4
-116

9.469 1895.4
-18 2 2.7.46 18950

$\frac{-153}{9,1316}$

$\frac{644}{21,02}$

3

43.787
25.645
9.432
35

2397
3

364

422

816

9.447

$\frac{408}{+092}$

422

22.64 1934.44

55.85

79

2624

25133 1193

25122

144078

26.94

23

34.71

2519

37.6

$\frac{25-96}{-4.94}$

4216

28.888
-45.200
-46.500
-129.000
5.000
100
-25.000

0.634
-0.128
-0.763
-14.966
17.576

0.065
0.992
-0.112
-515.827
-58.776

-0.771
-0.022
-0.637
126.494
28.567

45

PM. DEL. :
PM. DISTANCE :
MODULES :
RAD. VEL. :
q1 (U) :
q2 (U) :
q3 (U) :
0.75
0.57
0.31

W

DU : 687.067
U : 32.424

-0.092

-0.384

0.919

-229.741

-46.989

-0.725

0.238

-23.232

-9.886

q1 (M) :
q2 (M) :
q3 (M) :
DM :
M :

q1 (U) :
q2 (U) :
q3 (U) :
DU :
U :

AD515267 21 41.76 +23 37 -56.88

206792
+270945
13053

0108 ~~981~~

74744-04 7084 -0014

~~3~~
083
-3
-004

+35
54
-1

72.410 = 31
-55.3
0

+082 -001 (N30)

+21.2 +9.8

-24-52.9
+18.2 +753 +634 -172

+2927
-0334

-086 +351 +932

-052 +687 -321

-2534

-568 + 223 464856 + 086-001 -56.8 0 -26 0 ✓
049 0 071 0 232 336 -50.3 -41 +29 0108

-20 + 60 -26

+39 -57 -5