

218859

22 211 783 19

-14.2 (27)

+82.089

~~84~~

G 221-19

865 383 178 303 (1)

-0.26

4169

4470

C₉ 33

214059

444894

22 33.1 40.5 07

28.4 -6.58

WUITS

8.24 + 0.68 + 0.18 C4E

45 (B)

Q1840

(A)

S=0.5

+420⁺⁷ -202⁺⁷ Y⁺⁹

8.24 430 187 337

(B)

-10⁻⁷ 110⁻⁷ 193⁻⁷

407 198

826 428 198 327

(C)

410⁻⁷ 110⁻⁷ 193⁻⁷

(337)

-372 928 088 996 +420-202-6.9-018-1-548

156-007 390.017 820.1870 -6 +3 033

+19 458-30

+39-37-39

+26 +73-35

+48-49-54

026

2 51-14

9 -26-22

-14-9-14

2 64-18

13-33-29

-23-13-19

70238710.6 - 01858.7

70240 - 014

214094 22 33.8 6.77 +0.52 PEI

677 333 188 424 1

31554

-48650.515

44.564 1501.6 -43 43 50.21 1897.8

(27)

-1.152

43, 412

15.385

28.812

44.192

0.79

0.45

(41.0)

49, 27

35.04 1928.30

44.85

50.55

44.0

99.68

853
42.6
(44.8)

486/94
44.394
44.394

44.773

-30
943

50.01 1957.0

50.15

+2504090

190605

20 02.8

+25 55

2.8 26.5 +22.8

3w

C2625

12446

768 416 194 362 ①

+0426 -3205 Rind_g

oc

29 A120)

+0030 ← 1640

+041

-368

4

~~+038~~

~~+371~~

→ GC

1523 Y3/4

20 11.7 726 26

~~124~~

~~8451~~

364
415

235 283 2

710

7.72 44 235

134

235

404 13

70-11
69314

155019

~~20~~ 26.0
+0236.75
+0345
718
86
-069
6.8

262 -92.76

28482

688 418 303 365
655 420 210 346
27

-908 (3)

12750

1681 1405.5

+18 36 12.32

1906.1

~~10550~~

8.631

2.99

11 mm N3 4"

1.343

13.35

19345

~~355~~

832

32.1

13.49

A₉ 257

1.477

13.15

1939.5

1.416

12.1

143

~~7785~~

13.42

37.6

-1.89

31.5

1895 Lb 6

20

0-2

265 30

~~830~~
830

- 45.000

(24)

-14

819 422

202 357

(6)

415

204

420 203

189558

19 58.2 -12 23 P9D

GL 27729

-1245613

7.72 40.52 -0.02 Roman

Y 4786

-14.7
-305 -365

-99

-64 -116 +37 3.90

-125 -180 +54/100

$f - g = +.4100$

$[m_1] 1192$

~~74~~ 1013 537 032

$c_1 +.205 [c_1] +126$

59

070

$a 2.562$

02

-12M151

37(10)

51CM)

189558

15 58.2 -12 23 dFC -14.78w(13)

6627729

(M)

7.72 +0.52 -0.02 FSE

-1205613

S = .07

74734

-305 -364 ac

w12354

-304^{1/2} -360.5v

-124(8)

-296 MCR

44(10)

-311^{1/2} -354^{1/2} CR

51C(7)

-304 -360

~~772 384 054 370 2.486~~

772 384⁵² 054 370 2.486 (F)

387 111

790 20 MIM
46209 1154
193

4.4

-866 +500 -214 974 -304 -360 -14.7 077 +3 -1.665

-262 067 -180 038 -1.420 -535 -7.8 +12 028

-5 -6 -27 -58 -7 -57

-27 3 -43 -38 -67 +24 022

50 1 -27 -72 -12 -73

-50 -85 +31

-6 +10 -34

-35 5 -55

63 2 -34

203454

21

19

two 08

-114

+34.4524

what

$\rho = 3.240$

8170

352

193

3262614

314

157

$\rho_0 350$

-0915-227

Carlyle

-17-227

-222

227

164

-14

W : -9.002

R.A. : 21.300
 DEC. : 40.150
 R.A. : -22.000
 DEC. : -227.000
 ANCE : 1.650
 ULUS : 21
 VEL. : -1.400

(U) : 0.707
 (U) : 0.702
 (U) : -0.083
 dU : -811.950
 U : -17.244

(V) : -0.022
 (V) : 0.139
 (V) : 0.990
 dV : -147.734
 V : -4.545

(W) : -0.707
 (W) : 0.698
 (W) : -0.114
 dW : -694.983
 W : -14.699

621 898 637 231
 620 601 634 236
 620 608 617 244
 9
 11

340 173 276

W542

449 318 311

+0153 ± 2.2
+0153

+079 ± 2.2
+050

187376

19 52.5 26

26 26 26 26 26

-210a
195 211 F

188376

5.1 4.74 4.53

~~3.55~~
~~2.79~~ 189

w(±3.6)

195 211 F

27583

4.67 ± 76 (4.84) 5 2411

12264

-344 524

(4)

46.733 1898.2 -26 26 1.80 1896

+205 +075 ± 2

1599

45, 940 458 258 359

47 - 4.25
6.05

1927.36

18.85
34.4

14.600

966

36.2

59.02
53.80

1927.36

38.2

31.552

46.4 - 4.2

493

5.222
1.466

6.00

38.2

4.10
3.9
+ 553 40155 4082

3.430
3.446

+ 3.05

283

3.9

2.154
+ 2.54

1941.49

46.607

289

2.54

1941.49

584

209 4080

205-54(110)

R.A. : 19.900
DEC. : -26.400
PM. R.A. : 230.000
PM. DEC. : 80.000
DISTANCE : 1.500
MODULUS : 20
RAD. VEL. : -14.800

q1 (U) : 0.475
q2 (U) : 0.106
q3 (U) : -0.873
dU : 504.454
U : 22.991

q1 (V) : 0.218
q2 (V) : 0.947
q3 (V) : 0.234
dV : 572.284
V : 7.955

q1 (W) : -0.852
q2 (W) : 0.302
q3 (W) : -0.427
dW : -717.901
W : -8.002

1894 ✓

177.3523

19 47.1

+27

39

389 14 ✓ 485

1744
187013 19 44.5 +33 37 50 d/B +4.7a

27369
500 311 153 434 (B)
500 307 138 440 (B)

12110 4.99 +46 00 F5-8
+0012±1.9 -445-12.14

8.59 +104 +55
+0019±3.9 -438±5.1

12514 31604 15897
+0011±3.9 -431±3.0
+0028±2.1 -44±2.3

946 129 524
316 153 435 2.117

~~282~~ 451
+3.35 1875

+3.35
+3.36 28
-446
74

-011
-011 1000000000

-31
9540 171
4949 9852
4461
447

10000000000

12 3 7 1

ADS12889 19 43.7 +33 29

+6.08

Bulb

0515

+015 -435 64

7.49 + 58 + 78

276 16

$P = 238.9$

1776 "

Open

2.052

26

441

7.6

+5

20

26

 $-899 \quad 437 \quad 552 \quad 834 \quad +015 \quad -435 \quad +6.0 \quad -240 \quad +3.3 \quad -1720$
 $012 \quad -216 \quad 007 \quad -105 \quad 554 \quad -990 \quad +35 \quad +1.5 \quad -3.2 \quad 0515$
 $+13 \quad -23 \quad -25$
 $-32 \quad -5 \quad -20$
 $+9.4 \quad -17.4 \quad -21.3 \quad 07$
 $+24.4 \quad -3.6 \quad -15.3$
 $+10.7 \quad -19.7 \quad -25.4 \quad 06$
 $-28.3 \quad -5.1 \quad -18.0$
 18616

187013 415 415 19 44.5 433 37 F5D

HP7534 10012-440 415 5.00 448 00 392

G-227364 10014-439 415

1764g 415 417a

1316 49 155 435 1250L

[M] 212 422 127 524 2.64(10) cut

[M] 372 447 464 8.54 4103 493 494

(43.3)

1.60 -36.7 -7.2 -23.1

-1676 -556 -1126

2439

833

73177

73177

73177

89

19

316

~~203~~

$+0012 \pm 3.9$
 $-43.5 - \frac{1}{2} 3.0$
 -45.6
 $+0026$
 $+33$
 -574
 $OKS + 601$

186858

+0016

27350

12132 39.422 1892.1 +33 29 7.16 18840

40512959
 -069
 353
 28.71
 35.87

+0018 -442

42.53

56.970

39.504

26.116

28.438

+ 85

944

+0019 -446

38.7

37.12

15.82

16.27

17.0

1928.4

29.16

+0018 -444

+0019

444 - 444

1986

R.A. : 19.700
DEC. : 33.500
PM. R.A. : 26.000
PM. DEC. : -445.000
DISTANCE : 1.600
MODULUS : 21
RAD. VEL. : 5.000

q1 (U) : 0.436
q2 (U) : 0.822
q3 (U) : -0.366
dU : % -1689.15
U : -37.122

q1 (V) : 0.251
q2 (V) : 0.279
q3 (V) : 0.927
dV : -563.721
V : -7.144

q1 (W) : -0.864
q2 (W) : 0.496
q3 (W) : 0.084
dW : % -1135.15
W : -23.295

196504

19 44.5 + 33 87

12913 A 5.00 +0.45 0.00 2 100 F5 1/2 000 -43.6

B 6.54 +1.03 +0.53 2 100 - 26 (+0.03) (47.0)

12889 AB 7.64 +0.98 +0.78 3 20 dN5 500 (+0.02) {+6.8

8.44 0.29 0.65

-33 -6 -21 (51)

$\Delta m(A0) = 0.2$
 $m_1 - m_2 = 1.40$

$P = 2.58.6$ $P^2 = 6.687 \times 10^4$ $m_1 + m_2 = \frac{11.697}{6.69 \times 145} = \frac{11.697}{9.70} = 1.201$

$Q = 2.27$ $Q^3 = 11.697$

$m_1 = m_2 = 0.60$

$\pi^3 = 144.703 \times 10^{-4}$
 $\log -12 =$

$\pi = 0.525$

12984 5.2 A(20) 2.7 M(8) 3.9 V(10) 0.16

12913 4.4 A(38) 3.0 M(10) 5.6 V(12) 0.2

R.A.	:	19.750	7534.000*
DEC.	:	33.600	
PM. R.A.	:	28.000	19.000*
PM. DEC.	:	-446.000	44.500*
DISTANCE	:	1.400	33.000*
MODULUS	:	19	37.000*
RAD. VEL.	:	4.700	3.022*
			-0.442*
			1.700*
q1 (U)	:	0.446	21.879
q2 (U)	:	0.820	4.700
q3 (U)	:	-0.360	
dU	:	%-1683.19	
U	:	-33.763	-1.672
			-0.360
q1 (V)	:	0.243	
q2 (V)	:	0.276	-33.272
q3 (V)	:	0.930	
dV	:	-556.793	-0.553
V	:	-6.239	3.930
q1 (W)	:	-0.861	-7.729
q2 (W)	:	0.502	
q3 (W)	:	0.076	-1.140
dW	:	%-1156.8	3.077
W	:	-21.687	
			-24.570

185264

+25.3412

19 352

725 23

825

(A)

667 351 181 422

(C)

29400 4 37.8 +66 38 dks -52.06w(3)

GC5688

W 2743

Y1025

+660343

G2449-39

8.26 +0.75 +0.20 GTR R

gms 1972

S = .14

-55.6 (5)

-54.6 (12)

+377 +072 GC

-33 -62 +43 .028

-38 -58 +23 .040

20511 G(3)

+0643 ± 9.0
+0622
+0601 1358 +107 GP

+072 ± 13.0
+021

47.969 1908.7 +66 38 21.84 1911.0

-2.81
19.03

-2.656
45.313

~~20.8~~ 1929.9

46.58
52
63

~~20.75~~

MHA 3/17/279 -0023 ± 4.7 -197 ± 36 24
160691 17 40.2 -51 49 5.3 dG3 -11.8a
-0021 -202

24024 5.12 + 0.70 G5 ± -11.1a
10231 (6585) (067) 77
~~-0004 12 -191 12 1220~~

19
71 ± 7 10.248 1909.3 (32) -51 48 35.18 1906.6
0944
342 . 5try
-0021 -201 +8.55

380 297 10.314 -0017 -1965 33.05 1939.44 9679
-36
278 21 39.1 -10 48.4
260 -015 33.15 -8.45 (41.8)
082

10.266 -11.5
-23 5018 -196 0.75 35.08
243 36.44 1957.35
57.01

160691.000*

17.000*

40.200*

-51.000*

-49.000*

87
12

-0.018*

-0.196*

0.750*

1622

14.125

-11.500

0.362

-0.921

1165

15.710

-0.769

-0.334

90

-7.025

-0.384

-0.199

209

-3.126

185657

19

36.6

+49

10

6.5

dB6

-852

27183

6.47 +0.69 +0.715 2 20"

-87.9 units

12036

33.356

1894.2

+49

10

3.95

1893.2

$$\frac{-179}{177}$$

$$\frac{5}{10033} + 150$$

$$\frac{-8.01}{55.94}$$

$$-920(15)$$

6A

$$\frac{41.545}{33.314}$$

34.0

$$\frac{23.55}{0.45}$$

$$\frac{36.9}{1926.9}$$

$$\frac{165}{28.2}$$

4.48 220 364 413.30

$$\frac{315}{313}$$

$$\frac{0.179}{0.115}$$

$$\frac{1.4}{1320}$$

35.0

311

1.4

1925.6

$$\frac{27}{1.13}$$

70032.2.9

+1415.2.8

3w

186760

19 42.3

+0167±2.8 -062±2.7
+0160 54 -055
±8 -21.6 6

±8 -21.6 6

27322

12106

16.076 1899.8 +57 53 47.57 1896.2

-838

334

15.238

50.91

15.931

48.27 1924.99

-30

937

47.97

13.7 1927.2

7219
36.1

46.87
28848

1439
820

35.30

15.718
193

7582

49.00
46

1419
48.74

39.9

197

702

49
46

49
49.52

-21.17
54

186260 19 423 +57 54 F8

HQ7522

GC2222

530 375 177 436 (3)

448

501

215 hr

.387 .182 .427 (2) SAC 2.621
4 NC3

(3) out

1.60 +0.7 -16.7 -15.6

+37 +150 -648

260 ✓

6 564 705 59 640 8511

Demand

-48 110 514 2205

000

4.2

009-009

6.9

+26

-10

-9

7.65

4.2

-809-009

5.300
26.000
-10.000
-9.000
7.650

45869

338.74
6.200

-0.269
0.069
0.961
0.493
0.834

+10

-0.374
0.912
-0.171
-22.957
-8.836

-12

0.888
0.405
0.219
-55.898

-20

-17.311

63975 7 49.1 401 54 5.1 88 +32.36

5228

5-4

44 92 577 2687

10622

-0010 -007 W30

935

SCmi

-0010 ± 2.2 -006 ± 1.9 CC 3N30

55

740

8054

7006

-00122 -0055 W3 50

635

810

-0048

7.8

635

+1.9

710

-16.5

1215

-0183

-4

685

-0165 -004

+323

2.800
1.900
-16.500
-4.000
6.850
234
32.300
-0.456
0.458
0.763
26.944
30.956
-0.235
0.765
-0.600
3.834
-18.479
0.859
0.452
0.241
-75.690
-9.954

3201 $\frac{-7}{19} \frac{-101}{51}$
8 08.6 +9 58 87π

68099

-42-105 624 2724

815

-039 104 620 2.215

.004

97 $\frac{625}{135}$

5.7

$\frac{6.05}{-35}$
720

+300

-1.1 ✓

-0006 -022

$\frac{6.6}{}$

-1089

$\frac{-108}{-020}$

$$\begin{array}{r}
 -0006 \pm 41 - 025 \pm 36 \\
 -019 \\
 \hline
 -17.88 \\
 \hline
 1888.3
 \end{array}$$

$$\begin{array}{r}
 33.069 \\
 1888.5 \\
 \hline
 1921.569
 \end{array}$$

$$\begin{array}{r}
 37 \\
 \hline
 106 \\
 \hline
 143
 \end{array}$$

$$\begin{array}{r}
 164 \\
 \hline
 16.58 \\
 \hline
 180.58
 \end{array}$$

$$\begin{array}{r}
 33.057 \\
 \hline
 24 \\
 \hline
 33.081 \\
 \hline
 -025 \\
 \hline
 32.856
 \end{array}$$

$$\begin{array}{r}
 15.56 \\
 1888.2 \\
 \hline
 1903.76
 \end{array}$$

$$\begin{array}{r}
 107 \\
 \hline
 18.60 \\
 \hline
 -92 \\
 \hline
 15.14
 \end{array}$$

Observer:

149.41

7-

- 1

STA

0.270

IME

-0.070

096.18-

28-

71

-0.505

-0.073

20.119

220

0.726

-0.014

30.000

229.087

251 2782h
7.0

000

-0.020*

-0.008*

58.000*

9.000*

8.600*

8.000*

3201.000*

Comments:

8000
4642

-240
112 -13

12 13.2 -17 16

B8 III

106625
16740

259 -10 -35 C
2.58 -11 -35 95
2.58 -105 = 35

+17

-043 +098 +770 (3)

2.856
2.715 (3)
(14)

571
-01143 +0177 F124
~~-01164~~ 221

-01122 +0211
-01143 +0226

196
(564)
12.2
-12.2
-1.8 169.5
+27
255
223 3.8
43.5

+2
V0 = 2.57 (4.05)

+17
-1636
-161/1622

-4.28
-1637
-162 + 627

-125
-3765
m✓ -1.53

4662.000*

12.200

17.250

12.000*

-169.500

13.200*

27.000

-17.000*

3.800

-16.000*

58

-0.161*

-4.200

0.022*

4.050*

-0.868

64.565

0.428

-4.200

-0.251

0.707

720.881

-0.255

42.536

70.1

2.9
38

+36

+29

46.689

0.476

0.572

-0.305

-0.668

-0.666

-291.628

-13.975

-12

-9

-16.897

0.143

-0.032

0.699

0.701

0.700

-5

4

-5.038

-20.001

-4.093

175g

12

5 18.1

-05 25

43g

88.11

34400

12.12

811 851 605 2.72g

8.3

-5.7

-1.2

1.2

-0.16 + 0.24

-0.12 + 0.28

7.0

12.12

