Elan

7P2

3307 8 21.5 −59 20 · 100 II +B

11463 1.73

71124 1.85 +1.24 +0.19 C 1.08 +0.66 mem (5)

1.03 +0.70 R

+07

1.06 +0.68

163

−00376 +0151 FK4 +11.5a .98 65

31

60

84

−0250 +00225 4.5 Q (5.0)

+0040

−476

$M_V = -2.8$

+0225

+0009

31

−021 +018

−0208 +0142

3307.000*

8.000*
21.500*
-59.000*
-20.000*
-0.021*
0.018*
4.500*
79.433
11.500

0.126
-0.073

9.184

-0.001
-0.973

-11.307

-0.036
-0.218

-5.339

E Lac

3307 8 21.5 -59 20 120 II + B

71129 +30
9

1.95 +1.29 +0.12 C

67
-22
46
48

-0.00324 +0.0151 F124 25

very young

39
-0244

-021 +018

+11.5 Cw 4.65

3307.000*

8.000*
21.500*
-59.000*
-20.000*
-0.021*
0.018*
4.650*
85.114
11.500

0.126
-0.073

9.901

-0.001
-0.973

-11.315

-0.036
-0.218

-5.542

0.54

8 243 −32 47 Ba II +3023

−32.5296 270 +54

7145

Ba Li

−0019 +029

−00183

−0330

−020 +082

−23.5

+32

7.2

7.2

+303

~~B #1 131~~

V-3R

7.2 m

R.A.	:	8.400
DEC.	:	-32.800
PM. R.A.	:	-23.500
PM. DEC.	:	32.000
DISTANCE	:	7.200
MODULUS	:	275
RAD. VEL.	:	30.300
q1 (U)	:	-0.567
q2 (U)	:	0.768
q3 (U)	:	0.298
dU	:	169.537
U	:	55.738
q1 (V)	:	-0.134
q2 (V)	:	0.272
q3 (V)	:	-0.953
dV	:	53.740
V	:	-14.076
q1 (W)	:	0.813
q2 (W)	:	0.581
q3 (W)	:	0.051
dW	:	11.966
W	:	4.849

42 Agrulo 267 42 ~~1.131~~ 4548 4245 $c_m = .111$
33.6 36 41 1.131 .722

o UMa 8 26.1 +60 53 G5 III

3323 OCW-0.1

71369 -30 +9 3.36 +0.85 +0.51 2

2.99 +0.285 3J 268 42

760 503 347 3.00 +0.24 5E 226 230

2.25 +0.5

-0.01804 -0.1105 F124 H48a
26

-55

-21 271
-1316 2.31 385

385

-134 -108

8558 -5805
5174 -8142

3323.000*

8.000*
26.100*
60.000*
53.000*
-0.134*
-0.108*
2.750*
588 49 35.481
19.800

0.540
0.744

+46 +41 33.880

-0.397
0.332

-68 -13 -7.526

-0.465
0.580

-16 -5.038

94
3445 8 390 +46 25 +25.3 a

5 9 26
+46 8

-00035 +0016 F124

-0036 9.66
800 +004 -46.5
0
+4
.6
Vela OB 25.3

```
  8.660
-46.500
  0.000
  4.000
  6.000
    158
 25.300

 -0.611
  0.787
  0.081
 14.928
  4.404

 -0.089
  0.033
 -0.995
  0.619
-25.088

  0.786
  0.616
 -0.050
 11.672
  0.580
```

3496 5 45.6 -45 58
-450 4541
75276

-0005 -010 Stay
-0003 -007

8.75
-0031 -46
0
000 -004 -4
8

+32

```
  8.750
-46.000
  0.000
 -4.000
  8.000
    398
 32.000

 -0.626
  0.776
  0.077
-14.716
 -3.385

 -0.074
  0.040
 -0.996
 -0.758
-32.190

  0.777
  0.629
 -0.032
-11.931
 -5.776
```

75767 8 49.6 +8 15′ G1

.5′

6.58 +0.635 +0.06 2E 2

6.35 +0.22 2E

SB 10d

4.06
3.24
5.75
2.25/3.24

+0107 -2385′ GLT

— .5′ + 12/30

+4.0a

2.55′

+01065

+13

+1581

+159 -234

75767.000*

8.000*
49.600*
8.000*
15.000*
0.159*
-0.234*
2.550*
32.359
4.000

-0.916
0.663

-26.998

-0.968
-0.551

-33.544

0.144
0.507

6.702

-19 81 44
— 35 3 92 9 03.4 +38 39 G8 I-II b

3612
77912 4.56 +1.04 +0.81 5-5 -2.2

5 m n 4.16 +0.34 5-5
1031 586 482 4.16 +0.34 2 A
654
73 4.16 +0.34 5 A

381
334
-0278 -0142

-0.00248 -0.0194 FN4 +1.23 e
32

-0294

-030 -016

very young

3612.000*

9.000*
3.400*
38.000*
39.000*
-0.030*
-0.016*
5.850*
186 147.911
17.300

0.094
0.739

180 26.627

-0.073
-0.056

-15 -11.745

-0.109
0.671

-9 -4.533

217
8955
12 75

3628 9 5.9 -25 39 Gmo

1264 4.61 +1.56 +1.86 2 eggs
78541 4.60 +1.57 +1.89 C
4.56 +1.61 +1.87 5
4.59 +1.58 +1.87

3.70 +0.67 5 (8)
3.71 +0.67 B (2) -10 2"
3.70 +0.67

+132
+00254 +0030

3.32
3.91
4.1
2.05
8.05
5.45

8
65

16
+00027 +002 +10 new +00215 -44.7

+00029 +00032
+030
+039 +001

+29
+0344
+037 +006

364
326
387
240
245
835

+16
+13

3623.000*	3628.000*
9.000*	9.000*
5.900*	5.900*
-25.000*	-25.000*
-39.000*	-39.000*
0.037+	0.039*
0.006*	0.001*
5.350*	5.450*
117.490	123.027
-44.700	-44.700
-0.100	-0.122
0.289	0.289
-24.640	-27.953
0.009	-0.001
-0.924	-0.924
42.314	41.232
0.147	0.139
0.251	0.251
6.018	5.847

λ Vel 94 6 7 5 2

3634 9 66.2 −43 14 125 I 6

12623 1.80 144

78647 0.09 2.20 +1.65 +1.8: 6

2.21 +1.65 +1.81 5 2.34 +0.70 J

FN5

1.17 +0.70 E

−0188 +0126 156

1.25 +0.70

151

−00158 +0122 F1V4 +18.4a

290

−30 6.0 1.5

MV −3.8 wt 3 OGW

+13

−0215

−018 +0115

5.4

3634.0000*

9.0000*
6.2000*
-43.0000*
-14.0000*
-0.0194*
0.0155*
5.4000*
120.226
18.409

0.110
0.071

14.513

0.007
-0.996

-17.480

-0.014
0.049

-0.821

(X)

3694 9 148 -57 19 g 125

12813

80230 433+163+198 C

338 +0.775 Mand (3)

333 +0.765 E

336 +0.77

298

101

192

37

(54?)

μ -5.2a

-0026 -018 ±004.5

+7 +46

-0024 [illegible]

+14 +83

-0144

-021 -009

+10

-24

3696.000*

9.000*
14.860*
-57.000*
-19.000*
-0.021*
-0.009*
5.450*
123.027
-5.200

0.040
-0.123

5.518

0.006
-0.987

5.810

-0.101
-0.103

-11.847

217 8475 1368   45-48 1383   42-45 1339 G_m = .227   90   728

3705   9   18.0 (2722)   +34   37   MO III

12880

80423   3.13 +1.55 +1.95 J   2.28 +0.67 J:(4)

3.14 +1.57 +1.94 4E   2.24 +0.70 E (13h)

3.14 +1.545 +1.945   2.26 +0.685 M_1 7+0.05

M_v = -0.7   30cw

2712
904
-0180 +0131 FK4 +37.6a   18.8 92 9.6 3.4 (4.0)   188 92 96 31 406

+13   -18

-1795   +0123 34   +33

-2232 +0131

-221 +010   -223 +016

+15

Π_t 021 (25)

3705.000*

9.000*
18.000*
34.000*
37.000*
-0.221*
0.016*
4.1 ~~9.100*~~
66.1 41.687
37.600

0.749
0.699

+76 57.504

0.052
-0.126

-1.3 -2.594

-0.735
0.704

-25 -4.170

3705.000*

9.000*
13.000*
34.000*
37.000*
-3.223*
0.016*
4.050*
64.565
37.600

0.755
0.699

75.066

0.051
-3.126

-1.415

-0.741
3.704

-21.412

(X) 50 Rom

3773 9 28.9 +23 12 1h 5 TT

13143

82308 4.31 +1.54 +1.89 5 3.46 +0.47 $\bar{A}$(5)

4.32 +1.54 +1.82 3B 3.48 +0.665 A(4)

~~4.28 +1.55 +1.92~~ → A 3.47 +0.665

4.30 +1.54 +1.88

$m_v = -1.0$

$m_v = +0.2$ out 3 ocw

3 19 89 230 30 (5.3)

-0.0191 -0476 mw +001.5 +2676

+0262

| -025 -040 |

+6 +35

-0235 -0416

| -023 -038 |

345 66 307 889 2/3 (5.2)

+1765 -195

	3773.000*	3773.000*
	9.000*	9.000*
	28.900*	28.900*
	23.000*	23.000*
	12.000*	12.000*
	-0.023*	-0.025*
	-0.038*	-0.040*
	5.200*	5.300*
100	103.648	114.815
	26.700	26.700
	0.034	0.038
	0.633	0.633
+20	20.613	21.306
	-0.176	-0.186
	-0.318	-0.318
-26	-27.836	-29.836
	-0.110	-0.118
	0.706	0.706
+6	5.789	5.265

(X) 18,3/5 21

3803 Σ 29.7 -56 49 K 5 1II

13160

82668

3.15 +1.55 +1.87 G

3.14 +1.55 +1.879 E

2.21 +0.66 Mark (E)

2.11 +0.65 3E

2.20 +0.66 E

2.17 +0.66

179/78 82

90

30

(3.9)

+35

-00419 -0007 FKY -13.9 G

-4 23 -28

-00390 -0035

1/25 +0035

1/85

+0031

+0320

-0341

+81

-024 000

-031+003

+0009

+22

3803.000*	3803.000*
9.000*	9.000*
29.700*	29.700*
-56.000*	-56.000*
-49.000*	-49.000*
-0.031*	-0.029*
0.003*	0.000*
3.900*	3.900*
60.256	60.256
-13.900	-13.900
3.117	-0.120
-0.142	-0.368
2.037	-2.113
-0.010	0.062
-0.987	-0.353
13.095	0.643
-0.089	0.026
-0.072	-0.860
-4.383	13.514

45-48 42-45 41-42 Cm

1.9 38 1.155 .775 .160 (.137)

10 LMi 34 9 31.1 +36 37 6 8 VI

3800

82635 -16

17

559 568381

4.45 +0.92 +0.68 35

4.18 +0.32 35

4.17 +0.31 35

4.18 +0.315 K5

384 +0.3

3.4

(4.1)

+0.0051 -0.0263 FK4 -11.7 a

35

+0061

+006-023

384

3.4

3800.000*

9.000*
31.100*
36.000*
37.000*
0.006*
-0.023*
4.100*
66.069 (003
-11.700

-0.032
0.669

-9.970 -10

-0.107
-0.089

-6.000 -5

0.016
0.738

-7.543 -4

53 424 965 602 358
371

— 9 820 +39 51 RO III

3809 8 3E 0.0

82741 4.82 +0.99 +0.76 ~~45~~

-17 4.42 +0.875 45 405
17 514
4.06 354
515 455
355

±2.5

-0.00230 +0.0152 fhy -11.9a
35

-0265

-027 +019

4057 10 17.2 +20 06 G7 IEI

120 IEI

4058

89484/5 1.74 +0.43 2 Rw

14177/8 3.04 +0.30 2 Rw

+0218 -0157 N30 -36.6a 1.36

+306

+308 -150

+02183 -1533

+3033

+304 -150

1.3

205

221

238

+17

4057.000*

10.000*
17.200*
20.000*
6.000*
0.308*
-0.150*
2.060*
25.823
-36.600

-1.436
0.465

-54.028

-0.373
-0.344

2.979

0.661
0.816

-12.785

4057.000*

10.000*
17.200*
20.000*
5.000*
3.304*
-0.150*
2.050*
25.704
-36.600

-1.420
0.465

-53.521

-0.377
-0.344

2.929

3.651
3.816

-13.130

21 r = 2w

4057 10 17.2 +20 06 120 III

4058

-4
+17 +

r +3 ±1.5

+00218 -1540 N30+ -84.6

+00223 -1537
+40

+03141

+315 -149

136
54
77
300
75

1.75

```
4057.000*

  10.000*
  17.200*
  20.000*
   6.000*
   0.315*
  -0.149*
   1.750*
  22.387
 -36.600

  -1.461
   0.465

 -49.725

  -0.362
  -0.344

   4.499

   0.680
   0.816

 -14.630
```