−0007 ± 7.1   +001 ± 6.7
−0001   −002

164258   17 57.7   +00 38   6.3   A2p   −34.3 6

24499

10434   42.498 1898.5   +0 37   50.26 1898.2

036   −05

.534   50.21

50.23 1934.0

42.522   −10

9   50.13

531

(367)

50.15 1934.46

42.530   −2

0.46

11   50.16

530   35.2

50.14

−004   −07   (37.0)

93 Her

16434 17 57.8 +16 45 4.7 g 68 −23.4a

24502

10437 −0003 45 −014 42 N30

−0003 ±2.5 −005 ±1.9 Fe → N30

-0044 ±6.7 -112 ±5.7
-0038 -104

164507 17 58.7 +15 06 6.3 G5 +3.58

24522
10449

41.645 1404.9 +15 5 41.52 1403.4
198 5.22
843 46.74
41.728 43.95 1433.9
729 2
43.93
41.724 42.85 1939.41
-4 -3
720 42.82
724 C75
-119 43.28
-3.46

81.7

33
36.6
33.2

-15.86

6726 17 58.8 +33 14 5.84 g 166

-008 -024 GC

-2 +4

-010 -020

95 Her

+0005 ±2.7 +0008 +027 ±2.2 +024 A7 III −33.1 (8) (25n)

164669 17 59.4 +21 36 (55.1 A1m −30.2

24539 6" (55.2 G63 G5 III −31.0

Δm=0.13

10461

ADS10993

22.551 1884.3 +21 35 38.90 1885.8

−033 1.73

,518 37.17

24538

22.552 38.82 1634.4

1 14

553 38.56

18 22.564 558 525 39.15 1939.31

1 −24 B 71

563 +040 38.91 36.8

+21.4 38.41 51.0

17 +1.24

+33

5

30 4804 −2162

−8871 9763

+0006 ±2.6 +030±1.9
+0007 +033

24534

23.050 1885.7 +21 35 40.22 1891.2
−039 −1.74
23.011 38.48
23.050 39.75 1933.8
051 39.79
23.041 40.29 1939.31
−1 −20
040 40.09 73 11
043 39.94 36.6
+034 +1.48 45.4

-0.9

R.A. :
DEC. : 18.000
PM. R.A. : 21.600
PM. DEC. : 12.000
DISTANCE : 33.000
MODULUS : 5.000
RAD. VEL. : 100
-30.000

q1 (U) :
q2 (U) : 0.067
q3 (U) : 0.771
Ub : -0.693
U : 124.122
31.416

q1 (U) :
q2 (U) : 0.193
q3 (U) : 0.327
Ub : 0.693
V : 109.417


R.A. : 18.000
DEC. : 21.600
PM. R.A. : 12.000
PM. DEC. : 33.000
DISTANCE : 5.000
MODULUS : 100
RAD. VEL. : -30.000
q1 (U) : 0.067
q2 (U) : 0.771
q3 (U) : -0.633
dU : 124.122
U : 31.416
q1 (V) : 0.493
q2 (V) : 0.527
q3 (V) : 0.693
dV : 108.417
V :
45

75gr. +0002≠2.5 -014≠2.7
+0004 -015

164584 17 59.8 -24 17 5.5 dA8 -11.6 6

24555

10469 47.160 1901.0 -24 17 1.80 1900.8

010

150

15.259
31.892
47.151
6
157
-3
154

35.0

47.184
-14
172
163
+013

+69
1.11

59.62 1932.01
852
3.44
168
1.76
+18
1.58
1.66 1940.04
-4
1.70
164
-.53

+.05
36.0

35.2

+0016 ± 2.2 -041 ± 1.7 -39.1 ⑭

-0009 -045

ADS11005 18 00.4 -8 11-034 -40.2 8

164765 6-7 +0017

11 6

24565 +00165 -0070 .0238 GC +024 -041

0240

10479 21.473 1405.7 -8 10 55.30 1401.6

ADS11005 -071 +00175 -0378 +1.98 +0016-038

.402 53.32 ~~+0017-036~~

+0016 -040 +027 -038

GL → N30

54.78 1935.

[illegible]

59.747 220 ~~1078~~ ~~9634~~

21.622 54.98 ~~-9548~~ ~~-2600~~

21.369 .50

21.36 21.514 6541 55.35 54.8

375 -12 14 53.10 0326

-21 46 502 49 55.32 -0338

354 .50

48.772 21.384 373 54.55 54.95 ~~1940.24~~ 40.3 0323

32625 -5 14 -4 34.6 2.45

9 -029 01 1940.45

21.3 +1 379 55.24 54.99

.31/367 0

54.77 54.88 -1.54

-1 0 0-

-141 550 +024 -041 -40.2 006 +6 -194

024 006 0 0 114 028 -39.8 0 +40 0288

+5 +41 -2

+35 -17 -12

+6 +41 -4 02

+4 +11 0 03

+36 -16 -10

+2 +41 +3 55

+37 -15 +6

Ecliptic 18 00.4 −05 11 dl=3 +0.26

HR6733/4

AOS1100S

Δm=0.70

1.5 5.34
6.04

+024 −041 GC

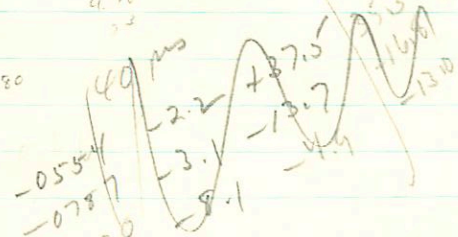
4.78 +1.60

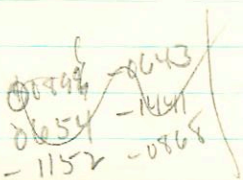
4.79 +38 +05

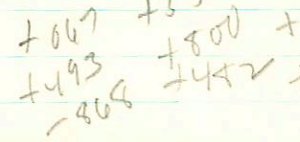
Δm=0.70

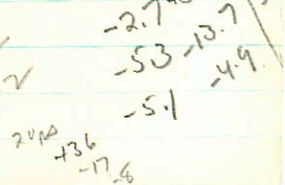
5.24 +0.35
5.94 +0.45

5.24 5.94
5.44 6.39









1000 F

-0042 ± 6.5 -271 ± 5.4

16528 | 18 02.0 -41 +30 -289 23 6.7 F7 +1.78

24612

10521 | 58.971 1509.6 +30 22 39.08 1607.6

170
54, 141

11.49

50.57

5-9.05
16
.066

44.3 1530.4
-32
43, 98

6740 18 023 -64 33

-007 -057 $P_a = -24$

GC 24641

		2.9		21	$\rho = -7.2a$
11046	18	00.4	+02	32	$+0^s.0173$ $-1''.096$

Bud 51

70 llph

4.25 +0.81 –

$\Delta m = 1.70$

3.87 +0.26

(Nlon)

1.70 — lun E Ochsent — Dal Ochsent

87°.85 } Strand

4".551 } A.J. 57, 97, 1952

5.65 +1.15 –

5.26 +0.44

$a^3/P^2 = 1.221 \times 10^{-2}$

$m_2 = 0.42(m_1 + m_2)$

$m_1 + m_2 = 1.66$

AB 4.03 +0.87 +0.53 (Y)

186 M(11)

186 M(10)

$P^2 = 77.176 \times 10^2$

$a^3 = 94.258$

$\pi^3 = 7.1890 \times 10^{-3}$

ρ^2

0".195 (86)

356

379

315

464

π	M_v	m(I)	m.(0)	log	h	v	w
0.193	+5.7	+5.05	0.96	-.02	-7	-20	-19
	+7.4	+6.25	0.70	-.155			

4.88

428

145

573

165567 18 031 f40 05

6764

f40.3276

319 164 469 2641

+0008±6.7 +005±7.8

16552Y 18 03.4 +21 38 6.4 g183 -32.5 8
24654

10542 22.839 1895.5 +21 38 28.70 1896.7
-044 -.27
795 28.43
22.795 27.86 1934.2
-1 +4
797 27.95
22.797 28.11 1928.44
2 -24
799 27.87
795 27.91
+003 -.52

5.79 +0.96 +2.10 1"24" +0092 ±4.9 −035 ±3.4
+0098 −037

165438 18 03.6 −4 45 5.9 2g R1 −18.98

24660

10507 35.360 1909.1 −4 45 24.76 1907.4

−376 +1.49

34,984 23.27

15.667 30.87 1934.63

19.600 +4.91

35.267 25.92

.272 1.47

−21 24.47

251 +16

24.31

35.279 ~~721~~ 24.50 1940.12 (30.0)

−4 +6

275 24.44

263 +279 24.38 −1.11

(28.3)

7.75

37.4

165271 18 03.7 −46 54 −88.1 C, (4)

GC24663

~~7.64 +0.635 Cape~~

7.65 +0.65 G5IV Cape

−039 ±12 −102 ±10 GC

−036 ±8 −114 ±8 CP

−037 −108

+90 −4 +17 .020

+86 +4 +17 .030

104116

144327

−0037 ± 12.2   −102 ± 9.5
−0041   −16

41.205   1902.3   −46   54   14.37   1899.1
176   5.19
.381   ~~.56~~
9.18
48.758
52.523   18.09   1927.62
41.283   3.46
283   39.7
−.14   440   14.12   992   8387
.271   220   13.94   71.0
2.05   42.9
161   11.94
41.180   −161   15.90   1956.35
−11
169   15.93   9.84
5.78
13.94 / 476

165069 18 03.7 -62 23 F -51.8 18th

-8.1 +0.43 Cape

779
245
10 24

-007 -218 CP
- 3 - 7
+18 +14

+008 -211 →

40/41 Dra
166866
24669
105-5-0
A105,1061

18 03.9 +80 00

B Sp.B. P = 11d
5.8 dF6 +10 sp.B
6.2 dF5 +3.9 n

+0155[40] +123[41] N30

+0160 ± 1.1 +121 ± 1.4 Bc → N30

5.68 +0.50 -0.01
6.04 +0.51 -0.01

18.05 6.05
+80

326 172 413
242 336 161 400 (1)

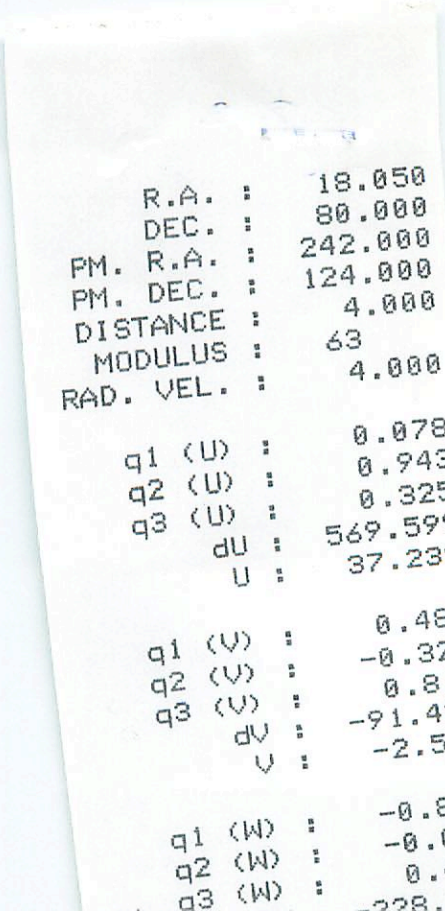
124 313 156 419
310 5.49 333 154 415 (1)
+4

R.A. : 18.050
DEC. : 80.000
PM. R.A. : 242.000
PM. DEC. : 124.000
DISTANCE : 4.000
MODULUS : 63
RAD. VEL. : 4.000

q1 (U) : 0.078
q2 (U) : 0.943
q3 (U) : 0.325
dU : 569.599
U : 37.239

q1 (V) : 0.487
q2 (V) : -0.321
q3 (V) : 0.813
dV : -91.422
V : -2.518

q1 (W) : -0.870
q2 (W) : -0.094
q3 (W) : 0.484
d3 (W) : 228.780



R.A. :	18.050
DEC. :	80.000
PM. R.A. :	242.000
PM. DEC. :	124.000
DISTANCE :	4.000
MODULUS :	63
RAD. VEL. :	4.000
q1 (U) :	0.078
q2 (U) :	0.943
q3 (U) :	0.325
dU :	569.599
U :	37.239
q1 (V) :	0.487
q2 (V) :	-0.321
q3 (V) :	0.813
dV :	-91.422
V :	-2.518
q1 (W) :	-0.870
q2 (W) :	-0.094
q3 (W) :	0.484
	-228.780

6771 ~~14 20~~3

1,5977 18 050 79 33

8B771

CNS

-10704 +0002

-59.8 +80.2

11110 79.71

3440 ± 83

273

2868 -2718 0934

-9580 9623 0376


R.A. : 18.100
DEC. : 9.550
R.A. : 0.000
DEC. : 0.000
TANCE : 0.000
DULUS : 0.000
VEL. : 10
0.000
1 (U) :
2 (U) : 0.090
3 (U) : 0.621
dU : -0.778
U : 0.000
0.000
11 (V) :
12 (V) : 0.481
13 (V) : 0.657
dV : 0.580

ADS 11060 18 04.2 +21 26

-031" -052" -22.6 woolly

30 pos.

+086	+766	-636	-0126	-1888	-2014	-6.0
+483	+527	+700	-0710	-1299	-2009	-6.0
-872	+367	+324	+1281	-0905	+0376	+17.1

+14.4 +8.4
-15.8 -21.8
-7.3 -6.2

+0.4 OD

166207 18 05.7 +50 49 −5 21 ± 0(4)

GC24714 6.12

W10574 K0III

−0010[13] +102[20] N30

−0006±8.7 +104±9.5 fc → N30

−003 +099 G-C

HR6950

−009 +102 N30

−006 +100

080

-1 025 775 632 -006 +100 -57.1 ~~-005~~ 075 -44 ~~295~~ 308

-006 085 00 -025 379 -36.1 -0.9 +36.1

-0.4	65.1	-6.3		-3	+72	-14	01
-2.0	-33.2	-10.1		+56	-44	-17	
3.7	-12.1	-6.3					01
-0.4	59.6	-9.2		-4.2	+74.0	-13.5	
-2.0	-30.3	-14.7		+58.4	-45.3	-14.7	
3.6	-11.0	-9.2					012
				-4.1	+47.7	-19.6	
				+50.0	-47.0	-15.6	

+0020 ± 113 −135 ± 9.5
+0015 −120

165696 1Ͳ 05.8 −45 57 −29.3 ± 0.8C,(4)

24716 7.33 +0.49 F8V

—

44.526 1901.5 −45 56 44.47 1848.2 +031 ± 131 Case

−047 6.99

429 37.48

1

53.138 52.01 1930.64

51.348 8.50

44.486 43.51

0 2.03

.14 41.48

472 .12

41.36

-1 0 -718 696 +031 -131 -29.3 094 +21 -431

031 094 00 147 445 -20.4 0 +20 03

+5 +35 +7

+34 -8 -7

+6 +38 +4 025

+36 -10 -9

165753 18 06.1 +0015 ±7.8 +0003 +18 −44 57 −037 ±5.1 −012 −35 Ro IV −0.7 ±0.8 (,(5)

24729

7.02 +1.11

8.006 1898.8 −44 57 18.94 1889.5

−077 2.24

7,929 16.70

17.781 28.68 1928.61

50.172 9.40

7.953 17.28

0 12

−14 17.16

939

165259 (6751) 18 06.2 −23 41 F8 IV-V +14.1 4C

FD 1016

+11 3 sl
+12.5

5.84 +0.47 (1.62)

6.0 } 2.5"
9.5 }

−0158 −248 N30
−0142 −232 GL →
−0135 −240

−057

302 — 17445 2670
559
(454)

8683

166181 18 06.3 +29 41 G5 V

43 (−13.4 lubt)

+100 −20 AGK3

+125 −35 X
−5 −2
+120 −037
+2 +4
+122 −034

+111 −027
+4 0

+115 −027

R388
G85-40
-44

5 01.6 +15 46 0.61 1700 15.6+1
06.3 +15 24 0.61 13.9+2

8
5

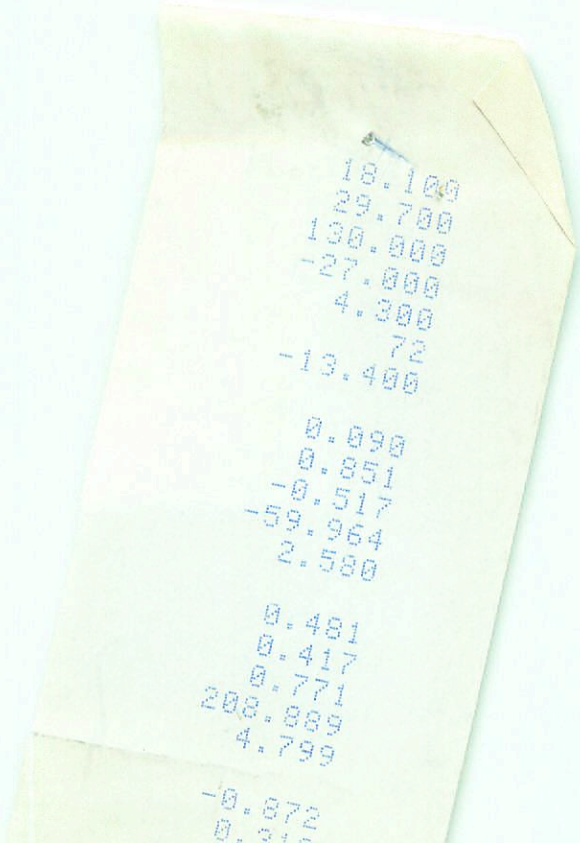
12.48 +1.50 +1.00
11.28 +1.04 2,2

10.58
105

14.76 +1.15 +0.67
14.10 +0.46 2,2

9.55
880

38
72
13.6
13.10


18.100
29.700
130.000
-27.000
4.300
72
-13.400
0.090
0.851
-0.517
-59.964
2.580
0.481
0.417
0.771
208.889
4.799
-0.872

+0008 ±12.2 −049 ±11.3

166253 18 06.3 +0008 +41 43 .041 7.7 gm4 −16.86

24733

10589

16.719 1910.4 +41 42 37.26 1908.8

−021 2.02

.688 + 6 −44 + 6 −36 35.28

+6

29.66 26.4 1926.3

47.155 12.00

16.014 17.8 38.04 28.85

.729 −.80 19.6

.727 1.405 38.90

.702 −.12

16.66 +014 38.78 1930.4

.678 38.5 −37 38.1 38.47 .81