117876 13 30.4 +24 34 gG8 +6.28U(5)

GC18313

W8028 6.11 +0.86 +0.70 KOIII R

A058937 δ = 06

+25°2643 1.5 [illegible] = 6m 5.37 +0.37 [illegible] (2)

+1.1 50' 4 5

OCW ±6 ±5

+048 -213 GC

-29 -64 -6 .010 +054±5 -205±5 Y

+050 -210

-111 -82 -10 .007

+0039 -2068 OC +

+0039.5 -204.5

+054 -204.5 OC → +6.2

+053 -201 AGK3 +056 -198 4.0

+053.5 -202.5

+0.035 ± 5.5 −213 ± 4.7
+0.043 −202

26.022 1898.2 +24 34 19.86 1897

−151 11.20

25,841 31.06

25.951 25.06 1928.32

17 −22

968 24,84

152 976 24.8 1930.2

25.974 +35 −26

,984 24,54 565.2

29.3

24.69 31.1

−6.37

31.1

5102

17874 13 30.4 +24 37 6.11+56 100 III

18313

+0035 -213 +626

+048 -210 GG→

+056 -208 Y→ flw

+053 -201 AGG

+052 -206

+056 -202

117876.000*

13.000*
30.400*
24.000*
36.000*
0.056*
-0.193
4.000*
63.096
6.200

-0.775
-0.160

-49.882

-0.585
0.054

14

13 500
24 600

9de 08

117 880 13 30.8 -18 15 -44.6

9.02+0.105-10.15 (2)

Kaplan's # gp

-45.08 10.4

-062 -142 Yale

-013 -112 Hyderbad

-038 -127

0.79

2.816

-85.66 -140.33

4.80 1.10

B6141

R5

Too far South

+0117880
$-17^{0}3883$ 13 30.8 (28.1) -18 15 A0 -45 R

$M_v = +1$ u = 0 v = -170 w = -206

9.08 +0.04 +0.06 (Roman) -145

-0045 -065 -10

-44 -142 43 → 9.02 +0.10 +0.15 -061 ±14 -135±10 Y

Eggen -0010 -014 -112 Hyd.

-0027 -127

500

400 pc

+2321	-2262	+0059	+3.0	+26.7
-1798	-4166	-5964	-298.2	-275.7
+0470	-4792	-4322	-216.1	-247.0

-781	+336	-527	+1425	-2023	-0598	-23.9	+23.7	=	-0.2
+605	+619	-501	-1104	-3726	-4830	-193.2	+22.5	=	-170.7
-158	+712	+686	+0288	-4286	-3998	-159.9	-30.9		-190.8

HB*15

0.000*

13.000*
30.800*
-18.000*
-15.000*
-0.062*
-0.142*
8.6 8.5 7.000*
6523 501 251.189
-44.600

0.004
-0.530

+26 +26 24.630
149
-0.595
-0.500

-284 -276 -127.102
108
-0.431
0.685

-255 -247 -138.786

117880.000*

13.000*
30.800*
-18.000*
-15.000*
-0.038*
-0.127*
7.000*
251.189
-44.600

-0.061
-0.530

8.333

-0.482
-0.500
-98.738

-0.399
0.685

-130.699

R.A.	:	13.500
DEC.	:	-18.250
PM. R.A.	:	-86.000
PM. DEC.	:	-140.000
DISTANCE	:	8.400
MODULUS	:	479
(AD). VEL.	:	-44.600

a1 (U)	:	-0.781
a2 (U)	:	0.335
a3 (U)	:	-0.527
dU	:	79.766
U	:	61.700

a1 (V)	:	0.605
a2 (V)	:	0.619
a3 (V)	:	-0.502
dV	:	-644.537
V	:	-286.113

15

a1 (W)	:	-0.158
a2 (W)	:	0.711
a3 (W)	:	0.686
dW	:	-410.427
W	:	-227.020

119055

13 320 -16 04 (Now

-15.3695 8841.24 -106.1 (3)

ppm

-.0014 -.016

-.020 -.016

-21
-16

10
-101

R.A. : 13.550
DEC. : -16.050
. R.A. : -21.000
. DEC. : -16.000
STANCE : 10.000
ODULUS : 1000
UEL. : -101.100

(**) 1.189 ~~903~~ 193 208 (???) 134 II

5114 OGW+HY 13 33.1 +10 28

118264
18365

6.50 +106 +0.88 E   574 / 525
6.10 +0.355 (2) E?

574 / 52 / 5.202 / 4.9 / +0.3 / +1.8

8.44 +0.48 -0.02 E   DuB
(4.9)
.314 [.211] [.338] ~ 2628 ( )
232   328
+022   +010

AawB

MB

+95 / -54 / 3~~88~~ / 34.7

$M_V = +4.0$ +0.63-054 Cayley
+093-054

+095-060 AGK3
+086-060 CL →
+091-060 A
+093-056   +32.7
~~+35~~

Card II

+0050 ± 113

+0059

+0054

-068 ± 8.3

-057

-062

-059

118266

4.193 1905.4

- 223

3,970

4.126

19

145

7.15-2

21

173

118

159

+189

32.0

+10 27

38.23 1900.3

+3.38

41.61

34.62 1934.6

-10

34.52

1940.25

39.60

-13

39.47

39.50

- 2.11

+85

37.4

37.1

118266 13 33.1 +10 28 +32.7 (4)

GC18368

W8049

+10°2565

+70°3566 Gp.

1+R5114

70"

6.24

8.5 70"

6.47 +1.05 +0.88 2m15s

6.54 +1.07 +2.17 1m24s

B 8.91 +0.475 -0.015 2m15s

8.98 +0.50 +1.65 1m24" (B)

(-0.16) DD

R1 II H

+074 -068 GC

+071 -042 Y

+088 -04226

5 73

120

-8.95 ÷919 189 983 +074 -068 +32.7 -013+6 -317

029 -005 -068 012 081 -34 +32.1 -29 -13

-17 -62 -39	007
-23 -9 +7	
-19 -56 -34	008
-67 -10 +12	
-16 -47	006
-85 -11 +4	
-78 -10 +5	0065

W : -4.127

R.A. : 13.550
DEC. : [illegible]
R.A. : -54.000
DEC. : 5.380
TANCE : 119
DULUS : 34.700
VEL. : 34.700

q1 (U) : -0.775
q2 (U) : 0.549
q3 (U) : -0.312
dU : -483.955
U : -68.464

q1 (V) : 0.608
q2 (V) : 0.782
q3 (V) : -0.135
dV : 69.172
V : 3.544

q1 (W) : -0.169
q2 (W) : 0.294
q3 (W) : 0.941
dW : -150.394
W : 14.721

9

184391(M)

118742 13 35.9 +39 26 dG2 -21 cw(3)

ADS 8981 Δm = 2.4 3"(AB) C dG8 -27 cw(3)

W 8069 Δm = 3.06 mu. 7.78 +0.67 +0.24 G5 V

Y 3118 s = -.03

+38°2663 w(+4.1)

Aleo C 57" 9.6

A

-0189 -143

-282 -143

A -225 ±3 -163 ±2 GC

+13 -57 -7 .025 C -227 ±4 -160 ±4 GC

+17 -69 -4 .020 -222 -162

7.79 427242 301 ① AB 7.76 +0.71 +0.22 -05

918 5720 4740 305 ① B C 9.15 0.92 OL

-365 -007

-143

231683 3.15 27±11 m(5)

-240

−0144 ± 3.2 −0195   −163 ± 2.4 −140

−406 −914 635 773 −222 −162 −242 −103 −15 −592

−090 −042 203 094 −872 263 −18.6 +17 +8

−24 +43 −43 0215

51.634 1897.5 +39 26 1.49 1893.6 +16 −63 −6

1.018
52.652

9.14
10.68

43.9
38.88
5.02

1925.5

30.3

34.2

1930.2

8


R.A. : 13.600
DEC. : 39.450
R.A. : -368.000
DEC. : -143.000
3.150
ANCE : 43

G64-12 13 37.29 +0 12.9 +440 h/sec

11.48 +0.40 -0.22 2R .29 2430 G

.24 2450 Wulf

(4)

GL4-12 13 37.5 +00 13 ~~44~~

Wolf 1492

11.49 +0.38 -0.23 Sandage

+438.5 Sandage (4)

11.2
0.95
4.95

-0.245 -0.115 Kuiper (1)
-0.215 -0.100 Wolf

Kuiper ~~*~~ ~~†~~ ?
No

Blue Straggler Halo

0.000*

13.000*
37.500*
0.000*
13.000*
-0.240*
-0.108*
6.000*
158.489
438.500

0.625
-0.419

-84.914

-1.080
-0.260

-285.182

-0.022
0.870

377.933

19

```
  0.000*

 13.000*
 37.500*
  0.000*
 13.000*
 -0.215*
 -0.100*
  6.000*
158.489
438.500

  0.552
 -0.419

-96.409

 -0.979
 -0.260

-269.178

 -0.027
  0.870

377.177
```

11881

+2.705

GL2-41

14.5 P

γ=122.0

13 32.9 +2 24

064 −225

8.21 +057

136

+2.4

64

−225

412

+2.0

13.600
R.A. : 2.400
DEC. : 64.800

R.A. : 13.600
DEC. : 64.000

ADS9002 −0028 ± 3.3 −0028 ± 2.5
−0021 −029

11946 13 40.9 −4 01 7.0 gK4 +4.78

18553

8109 54.600 1904.9 −4 1 23.03 1900.9

9.5 28" physical

.126
.722
36.869
17.777
54.646
27
.673
12
695

54.629
14
644

463 (28.6)
−061

+1.37
21.66
48.75 K27.59
34.52
23.27
1.62
22.65
23
22.42
22.76 1939.34
2251
+3
2278

42.60
−0.91

6699
33.5
(32.6)

Δm=3.11
B=F7V
A=K2III

ADS 9002

179467 13 6839 -04 02 ~~1008~~ 152 TII

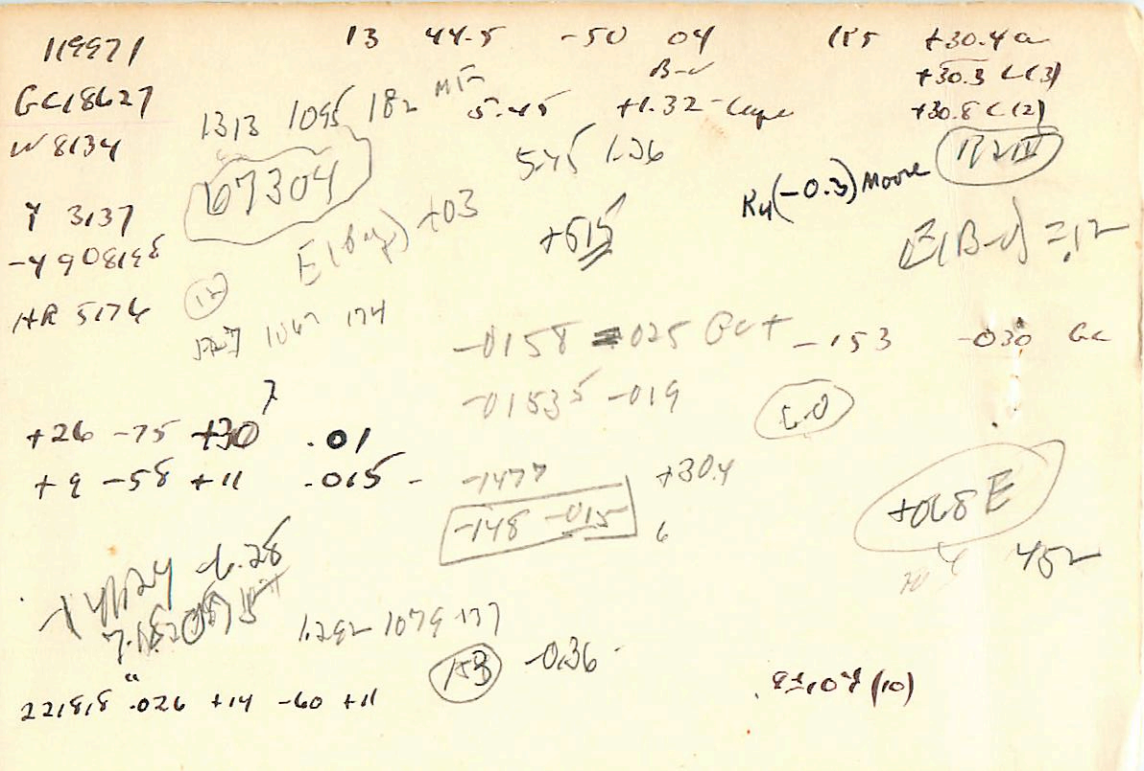
E=+03

7.10 +1.29 +1.21 3 B
618 6.55 +0.468 Tacd.
558 → 6.49 +0.44
653 10.03 /10.12 +0.53 +0.04 4 B F7 I
-1.8 35 3.5 26
~~+0~~.10 650 .326 [.219] [.373] 2.636 (2)
7 .237 318
333 + 018 055
+007

Mv +3.50

Neddon

D-V=+03



−0159 ± 6.5 −030 ± 5.4
−0157 −019

29.666 1910.9
422
30.288

−50 4 18.31 1906.7
+1.30
17.01

29.865
−26
.839

1407
.704
.584

37.1

17.05 1939.46
−47
17.55

17.80
−.79

9596
48.0

41.3

29.593
−25
.568

17.67 1956.50
−38
18.05

119871
66/8627 13 44.5 −50 04 K5 +30.49

w8134 +30.36 (3)
Y3137 5.44 +1.32 Cape +30.8 C (2)
−49 08198

5176 312 +11.5 26.5 25.5 GC
5206 313 +14.5 +0.02 −2.75 5.8 9.55 −153 −030
−143 +003 CP
−150 −017 Ect
−148 −010

+25 −57 +66 .0125

9 5.0 (1/10)

$+^{s}.031$ $+^{''}.51$ | sin. $\Delta\omega_0 = +''.013$

cos. $M_3 = -.017$

ϵ 1939.46

$p = 3$

$p_0 = 5°.76$

$\pi_{12} = 0°.437\ \delta, 003\ \alpha$

$p_{.35_m} = 4.93\ \delta$

+.76
-105.6
+26

-440 -898 -767 641 -148 -010 +30.4 008 -23 -028
-065 004 133 -007 -275 649 +19.5 -18 -9
-40 +43 -25 0125
+25 -57 +16

119971.000*

13.000*
44.500*
-50.000*
-4.000*
-0.148*
-0.015*
6.000*
158.489
30.400

0.531
-0.656

64.242

-0.457
-0.728

-94.474

0.081
0.200

18.986

R.A.	:	13.750
DEC.	:	-50.050
R.A.	:	-141.000
DEC.	:	-6.280
ANGE	:	6.000
ULUS	:	158
VEL.	:	30.400
(U)	:	-0.753
(U)	:	-0.031
(U)	:	-0.657
dU	:	324.144
U	:	31.397
(V)	:	0.622
(V)	:	0.292
(V)	:	-0.727
dV	:	-275.552
V	:	-65.763
(W)	:	-0.215
(W)	:	0.956
(W)	:	0.200
dW	:	63.718
W	:	16.190