U Lib 15 39.1 -

-2004305
9058

139867 15 38.5 -29 08 7.28 +1.72 M4 III

GC21082

+0016 +005
-0007 ±5.6 -012 ±6.3

28.514 1892.5

.33
.547

56.440

31.882
28.542
64
.608
4
612

+065

+0004 -008

+0008 +008

23.65 1893.3
68
22.97

31.56 1933.98

52.88
24.44
1.38
.06
23.06
-.13
23.19

+.22

67
12 4
17 4
47 4
10

CPD -44.7548 -065 873 Kapteyn

135961 15 39.4 -44 47 A0 V

8.90 +0.095 +0.175 (5)

(W4) 1.34 A1

+146.0 f

S

1566 -0172 -088 4+C FRY

-44.8 -0145 -074 C(π)

-240 -0160 -082

-82.5 -0156 -078 -0172 -088 4+0

7.4 ~~-015~~ -0173 -086 GO

+147 -166 -0172.5 -085

-148 -076 ~~-183.6~~

-185 -082.5

15.560
-44.800
-260.000
-82.500
7.400
302
147.000

-0.447
-0.187
-0.875
464.116
11.577

0.662
0.588
-0.464
-809.030
-312.570

-0.602
0.787
0.139
218.376
86.393

14

+39 02401
BC 21108

RRGB 15 39.6 +38 43 7.15 gm5 -500 SR(60)

+0021±4.4 -040±4.2
-039

36.180 1913.7 0.75 1511.6
76 1.53
.114 2.28

+16 -38
-1.0 -1.0
+0.4 +0.6
+0.3 +0.5

36.27 0.3 1940.4
005 -11
275 forces 0.19

+0016 -038

Blue
36.15 +019 -038
23
133 500ps. 1.9 1930.2
35
1.55

-5.00
-82.6
-44.2
-42.3

-56.6+14.0
-17.4-36.8
-22.4-35.8

1940.4

36.13 -446+950-241 0.6 -0402 -1531 -1933
23 +662+524+536 35 +0596 -0944 -0348
153 -603 -053+756 00.25 -0543 +0095 -0448

140611 15 40.1 +66 00 9.2 dG3 -20.4b 4w

C2105

15G(10)

9066

Y3561

+660916

+05-3±2 -178 ±0 GR

-3 +2

+050 -176/181

+043 -150 GP

+047 -185

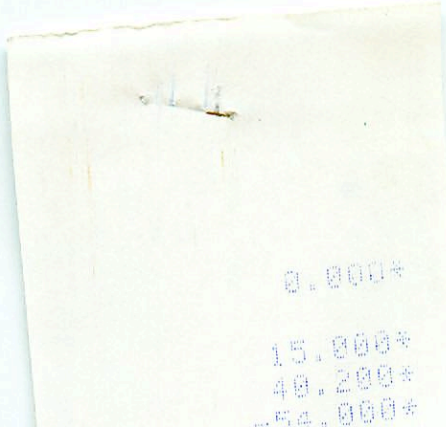
+8 +2

+055 -183 N30

+0040

T Nor 15 40.2 -54 50 -81c
20

-020 -030 Cape Pg
-2 +1
-022 -029


0.000*
15.000*
40.200*
56.000*

ADS9756

-0302±6.1 +159±3.4
-0313 +150

140590 . 15 40.3 +60 09 8.4 dG6 +33.26

21119

9068

19.409 1911.1 +60 8 40.59 1900.6

1.175
20.584

-7.85
32.74

51.00
29012
20.012
50
.062
9
071

17.2

24.1 1927.6
47.70
36.40
45
36.85
10
36.75

578
28.9
30.3

37.00
+4.26

19.98
41
20.021

20.046
-538

37.4 1530.2
-15
37.25

γUB

AOS9757 15 40.6 +24 27 −10.56

140436 .0201 (3)

#21130

9071 3.93 000 −0.05 AO

AOS9757 −106 +038 GC

−106 +042 N30

−0078 +042 N30 −107 +042 N3

4.0-7.0 0.5 −0081 ± 1.1 +043 ± 1.1 GC → N30 −106 +041

26 ± 5

Dm 2.44 −0079 +042

−0077 +040

−010 +173 1008 2.897

−103

−100 +041 10.5

Specialty

-421 -571 445 995 -106 +041 -10.5 018 -5 175

-087 015 061 -010 -365 360 -9.4 +5 +8 0201

-13 +26 +4

+24 -15 +9

9

-15.650
26.450
-112.000
41.000
3.000
40
-10.500

-0.449
0.768
-0.457
362.592
19.237

0.662
0.630
0.406
-192.457
-11.928

-0.600
0.120
0.791
308.501
3.976

16

HR5850 −0004 ± 12.2 −040 ± 9.0 +2.0 0D
−0013 −042
140438 15 40.8 +13 50 6.4 G8 III–IV −9.98

21132 −2.9 (3)
9073

50.334 1906.2 +13 49 32.48 1901.6
039 1.94
.373 34.42

AD5475-8
Dm...0
$D^m = 1.24$

50.320 33.14 1934.4
17 −14
337 332 (31.5) 33.00

50.302 33.07 1139.93
+24 −041 −22 1433
326 32.85 37.7
32.92 (36.1)
−1.50

140417 15.41.2 −15 31 FO III −31.2 Core of

5.40 +0.24 (1.60)

−0025 −060

−446 265 −855	+0763 −0754	+0004 0 +26.7
662 740 −116	−1133 −2104	−3237 −140 + 3.6
−603 618 505	+1032 −1758	−0726 −32 −15.8

F7VI

ARR 921 -49.859 18 44 4.3 -45 36 34.9

14 529 140925

-0123 -063

-01106 -058

13994

-113

-115-056

7.16 34.5 1.3 404 Allen 2.630

130 503
152 490
286 481
373
48

+3.7

8.044
920
623
-18
-74

140728 15 41.5 +52 31 5.5 Aop -16.16

21154
9077 -0076.25 +028.28 N30

-0074±2.1 +029±1.5 fit → N30 -15.5 (9)

141039 15 43.0 +53 08 dGL

+53.1806

227 400 181 364 (1)

25 Ser 5.B.1: 34d

u 9041 15 43.5 -01 39 5.4 -12.19

HD 140873 -0020±2.7 -043±2.3

GC 21187 -0002 -029

15 43 30.235 1500.5 -1 38 56.59 1900.0

94 2.15

.334 54.44

42 59.260 -004 37 3.17 1940.77

31.043 -1 52.81

30.303 55.98

43 30.304 38 55.19

.307 .330 55.79

.218 -006 55.53 55.62

-1.18

30.291 -0011 -035 55.74 1939.99

3 2

294 55.72

43 30.294 38 47.18 1934.26

40 234

.534/330 54.52 54.80

-152 -175 -40

140861 15 44.1 -40 02 6.42 +88 (1.93)

FD 1220

G5 III-IV -27.5 4c

Gc21202

-0165 -057
-0154 ± 100 -041 ± 6.5

5.457 1503.6 -0156 22.90 1899.6

730 2.07
6.187 20.83

-0158 -049
+8 +10
-0150 -039 40.79 1529.52

25.780 43.05
39.920 84
5.700
5.704 23.06
-0.172

5.704
-9 23.784/23.74
5.695

5.65 22.8 1995.3
30 -06
.710 22.86

−19.4

140882 15 44.5 −49 35 745 +1.58 1540#

141187 1411 87 −0043±2.4 +031±2.2 −0040+058

21224 −0042 +039

31 Sec 9100 15 45.0 +034 +14 16 40 −34.28

−0044

5.72 +0.09 +0.06 A2 −063 +031 Gc

HR5570

M9100 57.851 1910.3 +14 16 5.15 1906.2

[illegible] −1.36

58.022 3.79

57.925 4.82 1934.2

17 1820 (26.5) −14

.942 910 4.68 13.63

(66.01) 6.46 57.882 1030 5.40 1939.43 36.8

57.77 .39 −4 −12

+8 407 878 −112 5.28 996 (30.6)

779

−00430 +0370 4.98

−00420 +0415 +1.19 7491 −9250 0723

−0610 −6619 3810 0182

60 −059 +044 4.79

-832 -556 247 96.9 -063 +031 -34.2 008 -8 142

-052 006 035 -004 -227 194 -33.2 +15 +25 015

-0043 +040

+3 +41 +1

+36 -16 -9

014

+2 +42 +2

+38 -15 -8

012

-426	+654	-626	1.00 / 46.5
+660	+648	+280	-15.9
-619	+243	+728	-1

-1 +44 +4

+41 -16 -5

+1262	+1240	+2502	25.0	+21.5	
-1956	+1323	-0633	-6.3	-9.6	-2 +46 +5
+1834	+0556	+2390	+23.9	-24.9	+42 -18 -3

11

15.750
14.250
-60.000
42.000
4.790
91
-34.200

-0.429
0.656
-0.620
248.989
43.821

0.660
0.697
0.281
-43.160
-13.524

-0.617
0.289
0.732
227.501
-4.391

-0147 ± 4.6 +070 ± 3.4
-0143 +072

141472 15 45.4 +55 38 5.9 g183 -4.08

21233

9103 22.923 1897.8 +55 37 3791 1901.6

767
23,696

47.12
36.118
23.238
32
1270
1276
276

9273
23.091
-605

22.990
26
23.016
22.956
25
.991

(42.2)

-3.39
37,52

14.8
38.80
36.00
56
56
36.14
36.42
37.86
-34
37.52
38.27
-33
37.94

1927.8

2188
37.29
+2.77

1944.74

1947.29

11.983
40.0

(38.4)

19.56

5877 15 46.0 +31 52 6.38 12.5

+028 -050 GC
-2 +5
+026 -045

3877.000*

15.000*
46.000*
31.000*
52.000*
0.026*
-0.045*
6.500*
199.526
-19.500

-0.226
-0.394

-37.445

-0.042
0.481

-17.751

16

30 Sm
141378 15 46.3 -3 40 5.6 A3 -16.4 b
21251
9112 -0015^{29} $+007^{30}$ N30
-0023 ± 2.2 $+007 \pm 2.166$ N30

6.366 -.9949
-.766 1008

N1675 +0012 ±3.2 +003 ±3.2 0.0 (2)

HR5887 21253 15 46.4 +0011 +55 -001 32 Am -2.48.

9113

5.70 +0.10 0.12

+010 +003 Gc

10m 1"

~~ADS 9~~ 25.290 1892.1 +55 31 44.69 1890.1

-069 -18

.211 44.51

ADS9793

49.05 20.8 1927.0 119.18

36.148 36.92 39.7

35.198 43.88 49.6

32 56 138

230 48.6 44.44 44.46

6 14 -05

236 19.6 44.30

265 44.96 1944.89

+054 -34

25.259 44.62

24

25.285 44.79 1947.29

25.250 -33

25 275 44.46

$-820\ -570\ \ 824\ 564\ +010\ +003\ -2.4\ 002\ -2\ 00\bar{9}$

$008\ 002\ -006\ -001\ 04\bar{3}\ -01\bar{9}\ \ +1\ \ +1$

$+4\ 0\ -1$

$0\ +1\ -3$

0.4

$+3\ -\beta\ -1$

$-1\ +1\ -4$

012

HR5880 E=.07 5.70 +0.60 -2.9 -0010 -008

RGB 15 46.5 +28 19 +24.8 a

474 18 5/637 -0006 -012 58 -N30 -0.007 -0.017 C

865 -0011 -018 -0.014 -0.018N

55 -0.010 -0.018

-3.2 520 +10.8 = -33

-43.5 530

+014 7010

-0011 -018 N30

-00005 340

					23.5	24.4	
-429 785 -447	+0204	-0675	-0471	-16.8			+11.1
040 00 438	-0315	-0522	-0837	-30.7			+10.8
-617 106 780	+0242	-0091	+0201				+18.4

-0112 4185

→ -008 -016