NO

1HR37	1	146	+31	29		-34

-055 +004 GL
0 +1
-055 +005

805	232	545	-2059	+0055	-2044	-8.5
-585	466	664	+1525	+0110	+1635	-22.6
100	853	512	-0261	+0202	-0059	+17.4

7471 1 14.D 480 38 +015

7505 -004 34.7

-0064 34.4

40.545 940 -0049 52.19 41.8

G4546 358 23

903 52.42

40.566

+91

2057

53.16 4464

+4

53.20

RS $A = 0.72$

XX And 1 14.7 +38 41 −252 dw(1)

max 10.20 ±.13

min 11.12 ±.47

$\Delta S = 9$ 10 +059 ±12 −062 ±12 us

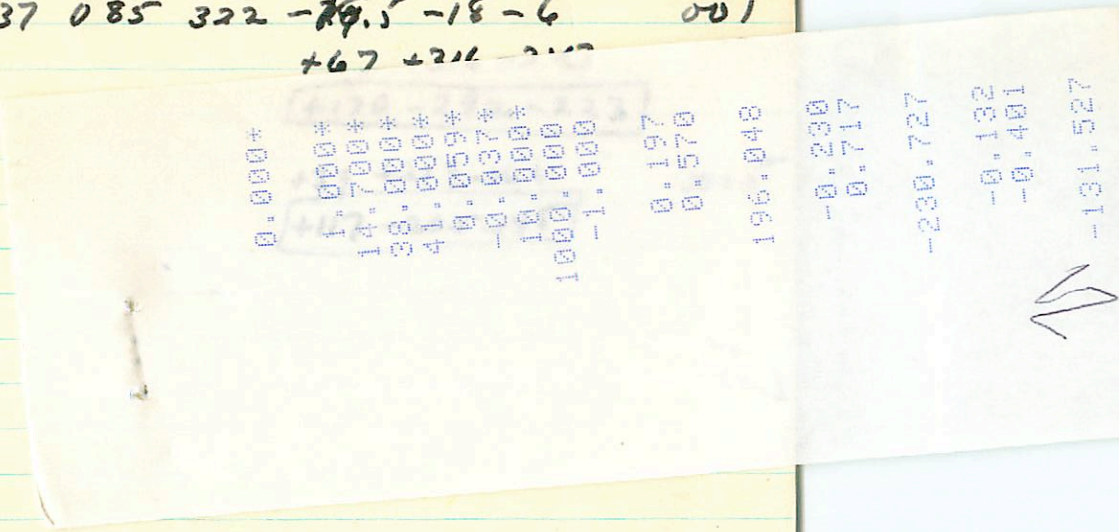
−1

+059 −037

320 947 625 750 +059 -062 -25 -039 -16 -227

-019 012 056 -037 085 322 -19.5 -18 -6 001

+67 +316



0.000*

1.000*
14.700*
38.000*
41.000*
0.060*
-0.031*
10.000*
1000.000
-1.000

0.205
0.570

204.504

-0.222
0.717

-222.701

-0.106
-0.401

-105.157

21

+74°39

−0068 ±130 000 ±15.0

−0172 +007

7623 1 15.1 +76 32 7.6 gK0 −77.76 3w

1562

744 5.489 1910.0 +76 32 1.80 1910.5

272 0

5,761 2.09 1945.09

−4

2.05

(0069)008 g12

347

Carlsberg

5.083

74

5,157

0204 +003

−0172 − 060 −007 GP

0040

071 003

304

+3

+3

−77.7

6.6

22

643 $01^h 15^m.9$ $-33° 24'$

HD 7909 +7.67 +1.01 +2.06 K0 IV

000 +005 sty

+0003 +006

+0035 -0.1

+006 +002

5

+.804	+.595	+.024
-.586	+.798	-.143
+.104	-.101	-.989

-0020 ± 8.3 +0003   +017 ± 7.3 +008   120 III   -0.1 ± 0.9 C_3 (4)

7409   1   15.9   -33   24   7.67   +1.01 (+2.06 / +2.0[illegible])

1577

—   55.690   19001   -33   24   1.51   1898.2

100
790

-88
2.39

46.120
9.725
[illegible]
845
-15
800

808
+012

40.7

56.68   1927.15
54.68
2.00
43
2.43
42
2.01

216
+.23

81.54
40.6
42.4

55.823
-18
.805

2.39   1554.39
+9
2.30

7909.000*

1.000*
15.900*
-33.000*
-24.000*
0.006*
0.002*
5.000*
100.000
-0.100

0.028
0.024

2.847

-0.009
-0.143

-0.896

0.002
-0.989

0.299

23

7853 1 15.9 +37 07 6.3 g A9 +5.0 β
1578
750

G5III −220 (5)

7732 HR3775 1 16.1 +77 .8 g6-4 73.56

GC1580 *?

W753 6.38 w(+1.3)010

+76°80

HR3775

−015 +091 GC

−022 +074 GAE

−57 −59 +15 010 −020 +080

326 645 976 220 −020 +080 −73.8 078 −72. 085

007 −025 −019 074 −317 −208 −16.2 −15 −5

−47 −26 −64 01

−57 −59 +15

90.5 Psc 1 16.7 +27 00 +8 c

HR383 A2V

+021 -006 GC
+021 -007 N30
+021 -009 FK3
+021 -008

0225
+0.1
0036
219

?

330 544 454 884 +021 -008 +8. -004 +4 -032

-007 +001 020 -004 -014 088 +22 +7 +3 02

+6 +8 +2

+8 +2 -5

822   1 16.2   -24 00   +8.6 (4) C_5

+28 (2)

HD7431

7.89 +1.03 +(2.12) 160 IV-V

-25°441

0062 006 [illegible]

-24136

081 006

+057 +015

0 +8

+057 +023

6/16

93 76.08 5.40

6 9.01 0.94

.0

57

```
           1.250
R.A. :   -29.000
DEC. :    93.000
R.A. :     6.000
```

ZZ Mic 20 58 00 -42 46 8.3-9.6 d 0.0
RS Gru (1000) 21 41 08 -48 19.7 0 G 7.9-8.5 0.147
HD 7908 √ 1 17 00 -23 09 7.2 A3

7908 7.25 +0.175 +0.110 +0.558 2.724 13 Nov 70
7.29 +0.189 +0.159 +0.624 2.713 15 Nov 70
.182 .135 .611 2.718
1.7 m1 c1 β

V7 ...

RS Gru 8.27 +0.169 +0.148 +0.927 2.759 13 Nov 1970 8:30 PM
ZZ Mic
BS Aqr .196 →
AI Vel .115) cycle —

5491

10 Variable 1.97 .056

CY Aqr .123 d
DY Peg 9.53 +0.250 +152 +806 2.716 8:35 AM 16 Nov 70

AD CMi 07 51 10 +01 41 9.1-9.4 d 0.122
.122

CC96 1 17.6 +57 04 10.3 dI16 +22c 2w
764

-.39 +.46 C20 56

8144 1 18.0 −29 15 NOIII-IV +16.3±0.3 C_3(5)

1621 7.37 +1.08 (2.14)

+0023" −001" N30

+0022±7.6 −013±8.0 GC 7N30

+0036 ±9.0 +023 ±7.5
+0036 +014

HD 8142 1 18.2 -14 09 7.0 G6 4 +8.1

770
1626

+051 +023 G6
+020 G6 p

18 12.446 1504.6 -14 09 6.42 1900.7
163 -1.13
.283 7.55
+0036 +018
+1 -3
16 58.388 +0037 1060.17 1934.89
1 14.018 7 5312
18 12.406 +054 7.05
104 7.46
+6 7.51
410 392 +43
.109 7.04
12.381 724 7.11 34.31
-7 +31 -29 1933.74
374 7.40 33.4

334 542 -244 570 +051+020 +8.1 -005 -:2 0,9,0

-017 002 048 -005 -057 237 +9.8 +7 +3

-3 +42 +13 006

$\boxed{+43-9+1}$

01

~~+0020~~

8126 1 18.4 +28 29 5.6 gK5 -35.6 ƒ

771 91Pee

1630 +0020 -068 N30

+0020 ±21 -067 ±1.9 OCcon EN30

+0195 ±7.5 +0204

+072 ±5.9 +070

8224 1 18.5 -57 36 -20.1 ±0.5 C,(4)

1632 Pa=019

7.2-10.2 2.6

7.01 +52 F7 II

28.579 1905.9 -57 36 6.65 1858.9

-860
27.719

PPM

044 090

5

176 90

32.0

-3.68
10.33

0.91 142886

52.75

8.16

-.39

8.55

6.50

1521

7576

37.9

39.0

1946.9

6.1
-.41
6.71

7.60
+2.73

29.018
59 270
28.288
-.56
.2246
184

743
372
+653

328
90
3.2
-20.1

28.61
.53

9556 9665
0297 2566

25

R.A.	:	1.300
DEC.	:	-57.600
PM. R.A.	:	328.000
PM. DEC.	:	90.000
DISTANCE	:	3.200
MODULUS	:	44
RAD. VEL.	:	-20.100

q1 (U)	:	0.800
q2 (U)	:	0.558
q3 (U)	:	-0.218
dU	:	904.940
U	:	43.890

q1 (V)	:	-0.589
q2 (V)	:	0.664
q3 (V)	:	-0.460
dV	:	-207.309
V	:	0.204

25

q1 (W)	:	0.112
q2 (W)	:	-0.497
q3 (W)	:	-0.860
dW	:	-118.699
W	:	12.114

+30°206

CC97 | 18.6 +31 05 8.8 dK4 +20.2 8 3W

772 G64-45

K2 II +25.1

+49 -08 Cin

13.5 m M!
''

77.5 pc.

+.540

9.48 +92 +68

40 r 94
-54
-12

109.0
-71.3
-11.9

+799	+230	+555	+2.0451	-0872	1.9579	97.8	+11.2
-850	+476	+652	-1.5101	-1805	-1.6906	-84.5	+13.2
+119	+849	-516	+2518	-3219	-.0301	-1.5	-10.4

+30° 206   1   18.6   +31 05   dK4 +20.28 W(13)

G64-65

w (+6.2) 040

W772   8,2

Y278

+751 ②

+49 .08 cin

13.5 11''

.51 12 m(7)

336 542 517 856 +450 -050 +20.2 -041 +10 -322

-165 014 462 -039 -602 2.255 +173 +16 +6

04
+1 +62 +2
+55 -26 -10

05
+4 +51 +4
+47 -20 -9

06
+6 +44 45
+43 -13 -10

+140210

8249 1 19.3 +14 55 8.3 dG2 +10.463W

C175

775

+288 ±5 +015 ±4 Ritz

m−M = 4.45 19.5

+285 ±7 +006 ±5 Y

−3 +2

+282 +008

/1000

+91.0 +1111

−53.9 −773

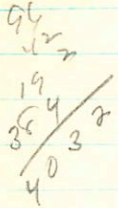
+7.6 +154

62 Uyg ?

8248 1 19.4 +15 32 7.5 dF4 +3.56

776

+15°196 +0042 -033 N30(Hm,50)



-47c 35

8274 1 19.7 +21 5d 7.2 F8

+21 0182

WTG.

-030 -021 Reitz
-1 +3
-031 -018 3Gc
0 +2
-016

CC 89 1 18.9 +12 29 dK3 +10 c

+12° 16.8 8.2

W781

+406 1020 Y
-3 +2
+403 +22

483
22
3
+10

342 940 216 976 +406+020 +10.004 +2 095

−139 −001 382.004 −6.75 1.805 +9.5 +10 +4

−7 +49 +4 04

$\boxed{+44 \ -21 \ 0}$

−5 +44 +4 045

$\boxed{+41 \ -18 \ -1}$

−4 +40 +4 05

$\boxed{+37 \ -16 \ -2}$

26

8394 +13.4 ± 3.5

$-58^{0}285$ 1 20.0 −58 14 10.8 G5 'al [illegible]

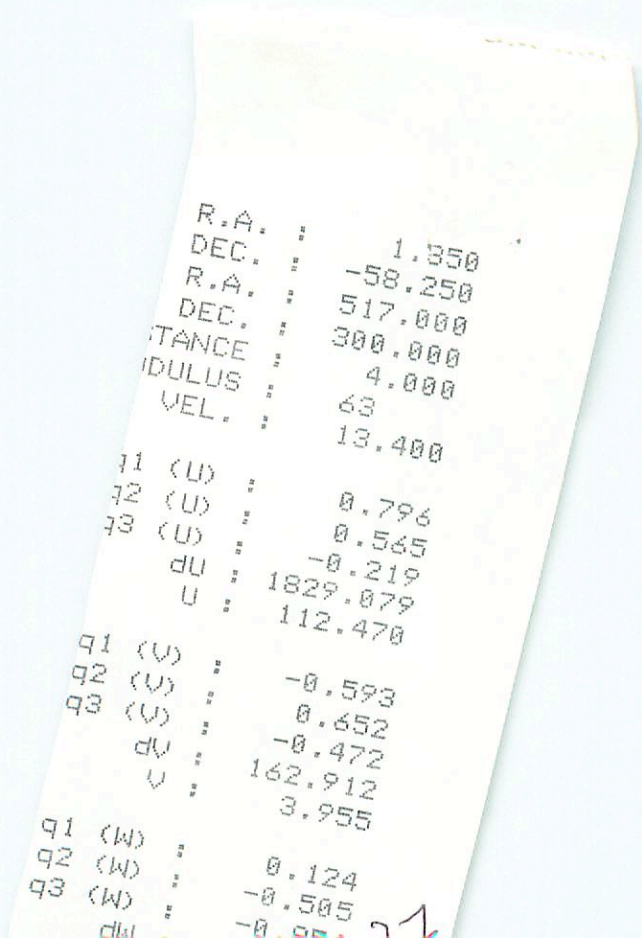
H.284

9.47 +84 [illegible] 20 +.34 +.34

+259 ± 7 +250 ± 4 CR

+285 +309 BPM

517
300
40
+134


R.A. : 1.350
DEC. : -58.250
R.A. : 517.000
DEC. : 300.000
TANCE : 4.000
DULUS : 63
VEL. : 13.400
q1 (U) : 0.796
q2 (U) : 0.565
q3 (U) : -0.219
dU : 1829.079
U : 112.470
q1 (V) : -0.593
q2 (V) : 0.652
q3 (V) : -0.472
dV : 162.912
V : 3.955
q1 (W) : 0.124
q2 (W) : -0.505
q3 (W) :

+0035 ±30 −044 ±2.6

8334 1 20.0 +0 +0041 28 −037 6.5 gMO −15^{4w}

1657

793

+0048 −037 7.26

20 2.284 19033 +1 27 56.98 1899.9

163 / .121

+0038 −040 / +1 −1 / +0039

2.20 / 59.18

45.162 29.2

1 17.080

20 02.242 / .020 / .262 / .260

158 / 253 / +132

21 20 6.65 / 7 51.52 / 58.27 / 27 .50 / 57.77 / .30 / 57.64 / 56. / 57.45 / .27 / 57.92

1929.60 / 57.97 / −1.21

32.5 / 32.6

1424.23

20 6.70 / 7 51.52 / 27 58.52 / .50 / 58.02 / 993

1938.60

18 45.161

1 17.080

20 02.241 / .21 / .241 / .235

2.272 / −11 / .261

248 / 127

R R-I

5.03 +0.63 (2)

7.20
280 pa
+46 -97 +4

+ 39 -41

+072 -037

720
pa.

+22
-22
0

316 p

+62
-125

+797 +474 +374 | +2210 -0921 | +1289 +40.7 -5.6 = +35.1
-592 +736 +328 | -1642 -1430 | -3072 -97.1 -4.9 -102.0
+120 +483 -868 | +0333 -0938 | -0605 -19.1 +13.0 -6.1

+2220 -0831 | +1879
-2020 -1291 | -3311
+0410 -0847 | -0437

5.29 615
46
220 695

+41
-88

8334 1 20.0 +1 28 gmo

HR 852

6.18 +1.50 +687 (2)

5.33 +0.43 (2)

+15

-15 variable

+0036 -045 CL +0038 -040 ±2

+0042 -038 new(4) +0037 -040

+056

+058 -045

6.95

3594 HR 1 20.1 7.5 20(1)5 -7.0 (5)
835V -7.6 (3)
m -4.9 (2) Var
$\Delta m = 2.2$ -6.9 (2)
5"

8243 1 20.1 +67 51 dG5 +8c

+67°11'6 8.8

+081 -086 GAZ

342 940 926 377 +081-086 +5 -080 +7 -152

-028 027 076-075 223 455 +30 +3 +1

+14 +25 0 02

015

8357   11   2031   +07   09.3   G5 IV

AC Poc   Uncllaf

+0060 ± 07   +245 ± 4.0

GC 10069   -20 45   19140   1.5   14.07   89.4

+6° 2111   +1.21 -34

-2   +5

+00647   +.2447   2c

-13   +00645   +2505

23 40   1.33

+00648   +25 17   +7.15

-20 46

+0964   +48

+30 +05   +247

+0648 +247

+10 +07   6.8

+18

29

[illegible].000
[illegible].500
[illegible]0.000
[illegible]47.000
6.100
166
10.000

63

0.798
0.432
0.421
873.445
152.530

62

-0.591
0.698
0.404
544.612
97.656

+41

0.119
0.571
-0.512
3.916
[illegible]

131

-0008 ± 5.1 -006 ± 3.9
-0017 -010

8388 1 20.7 +20 13 6.3 N7 -11.38

788
1677 20 42.531 1902.1 +20 12 30.12 1906.3
038 26
.569 30.38

42.517 29.94 1933.5
-1 +16
516 30.10
-053 -.28 (27.2)

8447 1 20.9 78 12 M3 III

18.222 +.0022 15 -.024 ± 12.2

55 467 47.50 1.4 +0.7 (II)

141 141

355 41.09

55.357 68.75 41.14

-5 6

352 41.08

55.358 66.48 40.87

-15 -4

343 40.88

+.003 +2.1

-4

8.5

.0000 +.0015

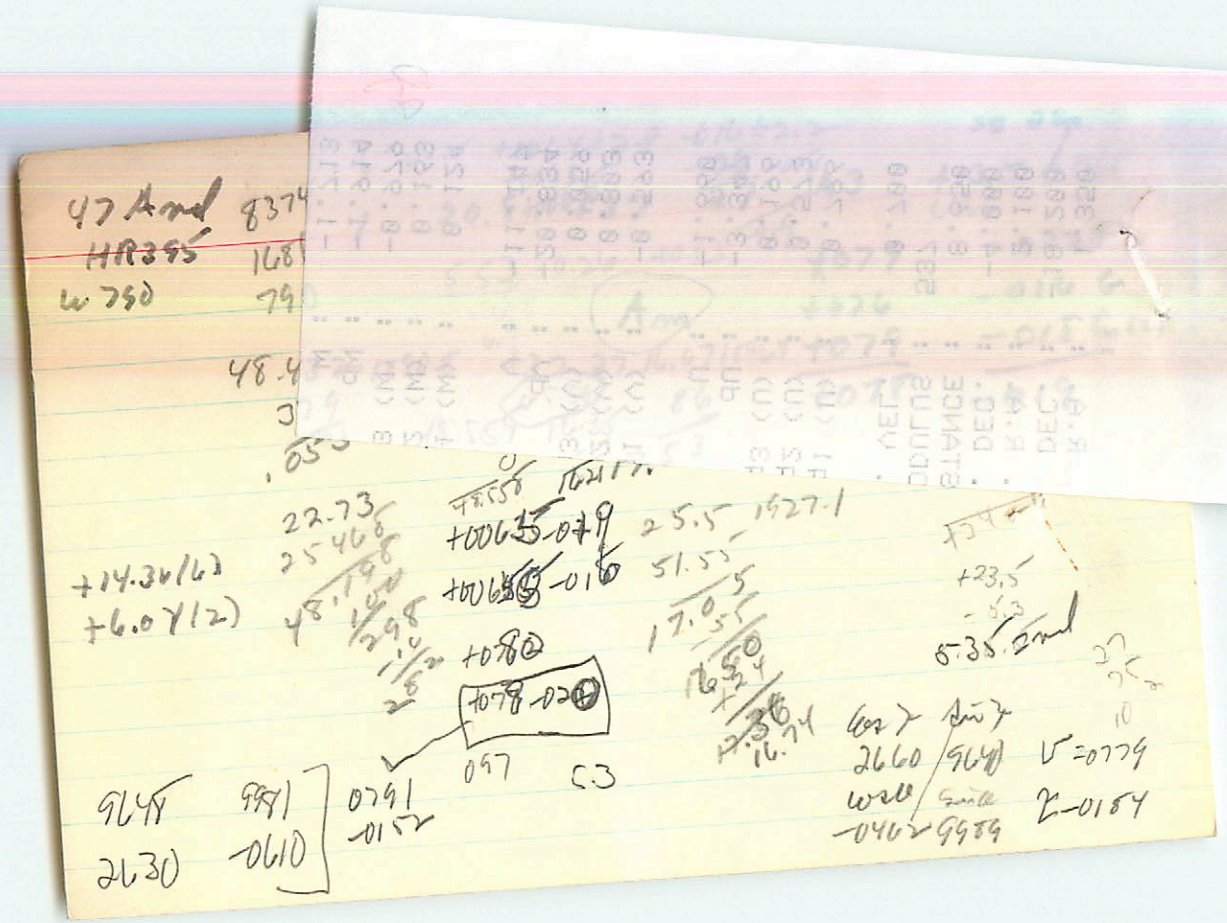
+.0005 .000

+.0006 +0.7

+.002 -.004

+.002 -.004

30



346 938 608 784 +078 -019 +13 -012 +8 -071

-027 004 023 -011 -076 365 +103 +9 +3

0085

0 +46 0

$\boxed{+40 -20 -7}$

009

+1 +44 0

$\boxed{+39 -19 -5}$

31

31

```
  1.330
 37.450
 97.000
-22.000
  5.300
    115
 13.500
```

50.1 115,54

```
  0.798
  0.165
  0.580
273.953
 39.290
```

+21

```
  -0.591
   0.403
   0.698
-257.897
 -20.181
```

-3

```
  0.119
  0.900
 -0.419
-50.468
-11.446
```

-8

+0060 ± 3.7 −037 ± 3.2
+0058 −039

8442 1 21.2 +17 33 6.8 F2 −15.2 b

792

1686 21 9.347 1840.9 +17 33 29.94 1887.6

−355 2.31

8.992 32.25

[illegible] 9.235 1934.9 3048 1934.5

+5 +7

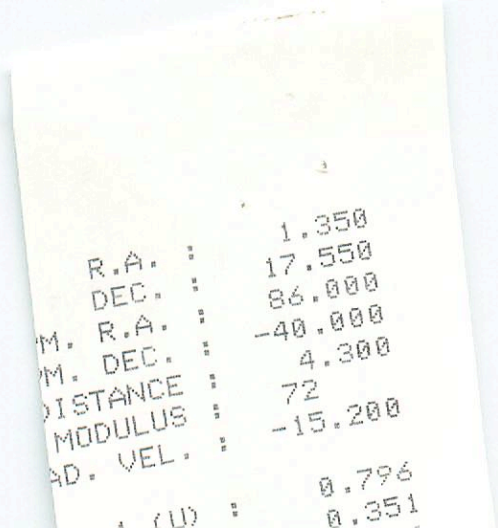
DB57-040 240 30.55 54

DB2-040 9.275 (46.3) 29.90 1939.93

+8 +19 37.2

283 30.09 (49.6)

86
−40 9.262 30.32
43 +.270 −1.93
15.2



R.A. : 1.350
DEC. : 17.550
M. R.A. : 86.000
M. DEC. : -40.000
ISTANCE : 4.300
MODULUS : 72
AD. VEL. : -15.200

0.796
(U) : 0.351

HD 8441 1 21.4 +42 53 Var vel ?

~50 km

GC 1682

(12 plates) mean +9

-0009
+0006 ±6.5
-0025

-009 ±5.1
~010

121 22.544 1903.8 52 54.76 1601.8 9

-028
.916

+44
55.20

-0010 -008

513 -49

22.86 55.10 1525.8

-68
.852
-064

-011

-17
54.93

0.44

1953.19

54.43
-22
54.71

-27

175

22.865
5
22.870

757	107	554	-0416	-0040	-8.0	+5.3	-0456
-552	334	734	+0309	-0126	+2.5	+6.6	+0143
120	936	-330	-0062	-0355	-7.3	-3.0	-0417

12±6

36 ψ Cas 1 22.4 +67 52 g K5 − 11.5 8

HR 399 4.76^H +1.065^G K0 III 1/8 (7)

ADS 1129 +077 +030 GC

13m3" +075 +033 N30

8491 +0133 +033 N30 +071 +030 FK3

801 +0131±1.3 +031±1.2 GC Lou GN30 +074 +031

1767

2

352 534 527 376 +074 +031 -11.5 029 -11 057

-026 -010 069 027 -251 280 -4.3 -4 -1 016

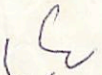
-20 +17 -7

+10 -23 +11

-17 +13 -8 02.

+6 -19 +9

+8 -21 +10 018



33

```
      517.000*

        0.000*
       56.000*
      -28.000*
       -8.000*
        1.290*
       -0.305
        0.200*
8.13   10.965
        0.000

        4.274
        0.016

+35    46.866

       -4.602
       -0.026

-37   -50.456

        0.184
       -1.000

        2.017
```

ADS1131 11 Sp.B. +0013 ± 5.7 +007 ± 3.7
+0012 +010

8627 1 22.5 -6 12 6.8 dF1 +15.5 b

804

1712 22 29.330 1848.9 -6 12 22.58 1893.4

-046 -40

.264 22.98

7 } 7"
10.8 }
physicist

21 13.788
1 15.502
25.320
22 25.009
.329
.3 9
320

29.295 306
-2
293 +.042

34.8

28 22.07
7 49.98
22.09 1933.65
12 22.50
22.59
22.32
22.29
22.

23.16 [58] 1933.7
+31 33.7
22.85 40.1
22.56
+0.42

7680 1 226 −43 07 MLW ~~III~~ +4.8 (2)

+21 +13

28.7
+13
10.7
+4.8

R.A.	:	1.400
DEC.	:	-43.000
R.A.	:	28.700
DEC.	:	13.000
ANCE	:	10.700
ULUS	:	1380
VEL.	:	9.800
(U)	:	0.791
(U)	:	0.610
(U)	:	-0.055
dU	:	116.240
U	:	159.914
(V)	:	-0.597
(V)	:	0.748
(V)	:	-0.289
dV	:	-13.292
V	:	-21.185
(W)	:	0.135
(W)	:	-0.262
(W)	:	-0.956
dW	:	-2.700
W	:	-13.092

-51° 144 1 22.8 -51 04 11.4 100

LTT 780

+256 +20 Cape
+212 +57 L
+235 +065

5580 9601 244
0630 2796 -3
-0.6
0255
2.47

SD

8634 1 22.9 +23 15 -16 Range(30)

HR4807 F5 III -14.8 Orbit -15.9 Orbit

GC1722

+032-016

1.4

+2325

35

-16

50

-15.9

R 5 A = 0.72

XX And 1 14.7 +38 41 -25 [illegible] (1)

max 10.20 +.13
min 11.12 +.47

ΔS = 9 10 +059 ± .12 -062 ± .12 us

-1

+059 -037

320 947 625 750 +059 -062 -25 -039 -16 -227

-019 012 056 -037 085 322 -19.5 -18 -6 001

+67 +316 -243

+170 -292 -223

+39 +219 -164 0015

+117 -205 -145

21

R.A. : 1.350
DEC. : -18.200
. R.A. : 2.100
. DEC. : -4.000
STANCE : 8.650
ODULUS : 537
. VEL. : 0.700

q1 (U) : 0.796
q2 (U) : 0.573
q3 (U) : 0.196
dU : -3.347
U : -1.660

11 (V) : -0.593
2 (V) : 0.803
(V) : 0.059
-20.834

47 And 8374 6 25.2 +0064 ±2.9 -016 ±2.2 58 2Sp.
+0063 -026 -019
HR395 1 20.8 +0066 ±3.7 27 A3 +13.5 6 aft
-019

w 790 790 5.53 +0.26 +0.13 +079 -022 F

Am +076 -016 G

48.432 1890.8 +3.7 27 16.67 1896.4 +079 -018 Gn(2)
379 65.54 86
053 48.559 16.35 +078 -019
17.53
48.558 16.21
22.73
25.46 +0065 -079 25.5 1527.1
+14.34(6)
+6.07(2) 48.198 +0065 -016 51.55
17.05
+080
+078 -020 16.50 +23.5
-5.3
5.35 2nd
097 C3 16.74

9648 9981 0791 6o7 Am 7 V = 0779
2630 -0610 -0152 2660 / 9640 Z -0184
w20 / Smith
-0462 9989

346 938 608 754 +078 -014 +13 -012 +8 -021
-027 004 023 -011 -076 365 +103 +9 +3

0 +46 0

+40 -20 -7

+1 +44 0

+39 -19 -8

0085

009