GW7-53 15 352 +25 22 +55.7 (E)

325 207°

-148 -240

-164
-240
+6.1
+55.7

```
R.A.  :    15.650
DEC.  :    25.400
R.A.  :  -164.000
DEC.  :  -290.000
TANCE :     6.150
DULUS :   170
 VEL. :    55.700

1 (U) :    -0.449
2 (U) :     0.759
3 (U) :    -0.471
   dU : -728.159
    U : -149.914

1 (V) :     0.662
2 (V) :     0.637
3 (V) :     0.395
   dV : %-1340.483
    V : -205.661

1 (W) :    -0.600
2 (W) :     0.135
3 (W) :     0.789
   dW :   235.689
    W :    83.956
```

103

103

HD 140385 IT 40.2 +25 47 G2V

+30°2695 5.54 +0.70 +0.10 (2)

5.60

-36 -116 -10

-41 -72 +19

-44.8

-0.087 -0.158

Carbon

-0051 -161

-044 -161

8.56 428 187 308 (1)

-74

-161

3.20

-44.8

54

43

109

78

3.87

9

59

28

4

104

R.A.	:	15.650
DEC.	:	29.800
. R.A.	:	-76.000
. DEC.	:	-161.000
STANCE	:	3.200
ODULUS	:	44
. VEL.	:	-44.800
q1 (U)	:	-0.449
q2 (U)	:	0.793
q3 (U)	:	-0.412
dU	:	-464.827
U	:	-1.845
q1 (V)	:	0.662
q2 (V)	:	0.605
q3 (V)	:	0.442
dV	:	-668.497
V	:	-49.001
q1 (W)	:	-0.600
q2 (W)	:	0.074
q3 (W)	:	0.797
dW	:	130.994
W	:	-29.975

140283 15 40.4 −10 46

+709 (19)

7.26 +047 −0.23 (2)
7.22 +049 −0.19 J
7.27 +048 −0.14 Scallops
7.25 +048 −0.19 (5)

Slid

−0757 −300 Cuddy

−1.115 −300

7.23 383 050 341 23

−171.14

7.00 +0.225 (5)

−1134

3.00

1709

−0776 −317 GL

−0761 −310

−07685 −313

−1768 −311

−1.1316

−1.13 −308

+711

2.15

.049 359 642283

+3.06 1

107 / 413

140283 S = +0.25 Var? −172.2 4C
−137.2 ±1.5
W 9069 21124 15 +0.4 −10 44 Ad A 5 p −171.18
9069

H0140283 7.27 +0.48 −0.14 Sneden

S = .13 7.20 +0.48 −0.10 R

7.23 +0.45 Egg −

.031 −1.145 −320 GC

11M(8) 7.28 +0.5 −0.12

494(8) −1.140 −3.5 it

31C(7) 7.16 +495 1.463 Egg 1.5 x 15 = .22

7.27 +48 −14 Sned

7.20 +48 −10 R

7.26 +51 −23 18" Egg

7.24 +49 −16 S =

7.20 +51 (1.48) F3 VI Ape

-0777 ±8.3 -320 ±6.9
-0762 -313

-522 -570 -19798 -1.140 -315 -171 059 +32 -1.464

-937 048 650 -034 -4278 3.307 -168 +96 +138 03

-46 +248 -16

+207 -145 -7

-11 +221 -4 04

+191 -107 -28

22.481 1905.1 -10 46 18.03 1903.2
3.489
25.970

(32.8)

+15.30
2.73

24.64 1934.49
+2
24.62
44.16

2.2481.
1.737
-3
1734 21.990 23.704
35
23.739

3.80
1.24
12.56

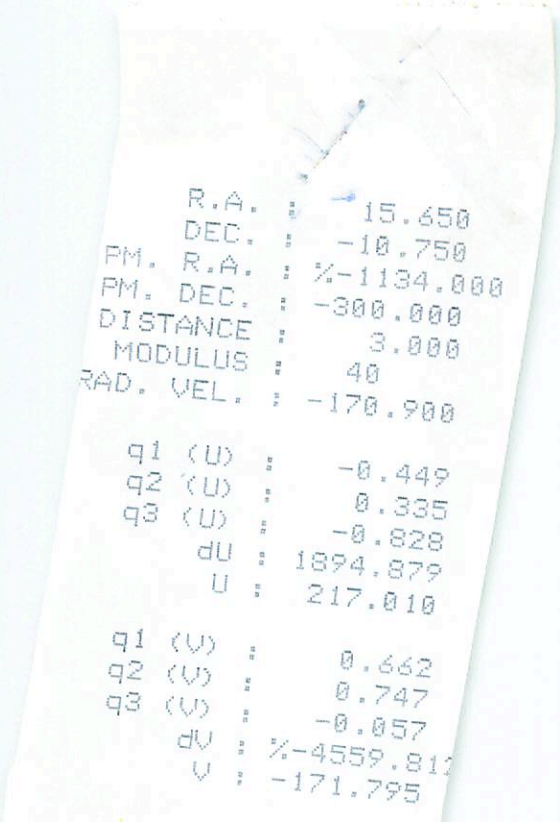
75.89
37.9
(34.7)

19.52 1641.40
55.08
14.60
+20
3720
-24
14.64 13.60
-10.87

50.408
32.806
23.214
+6
-19
201

940
23.470
-2.500

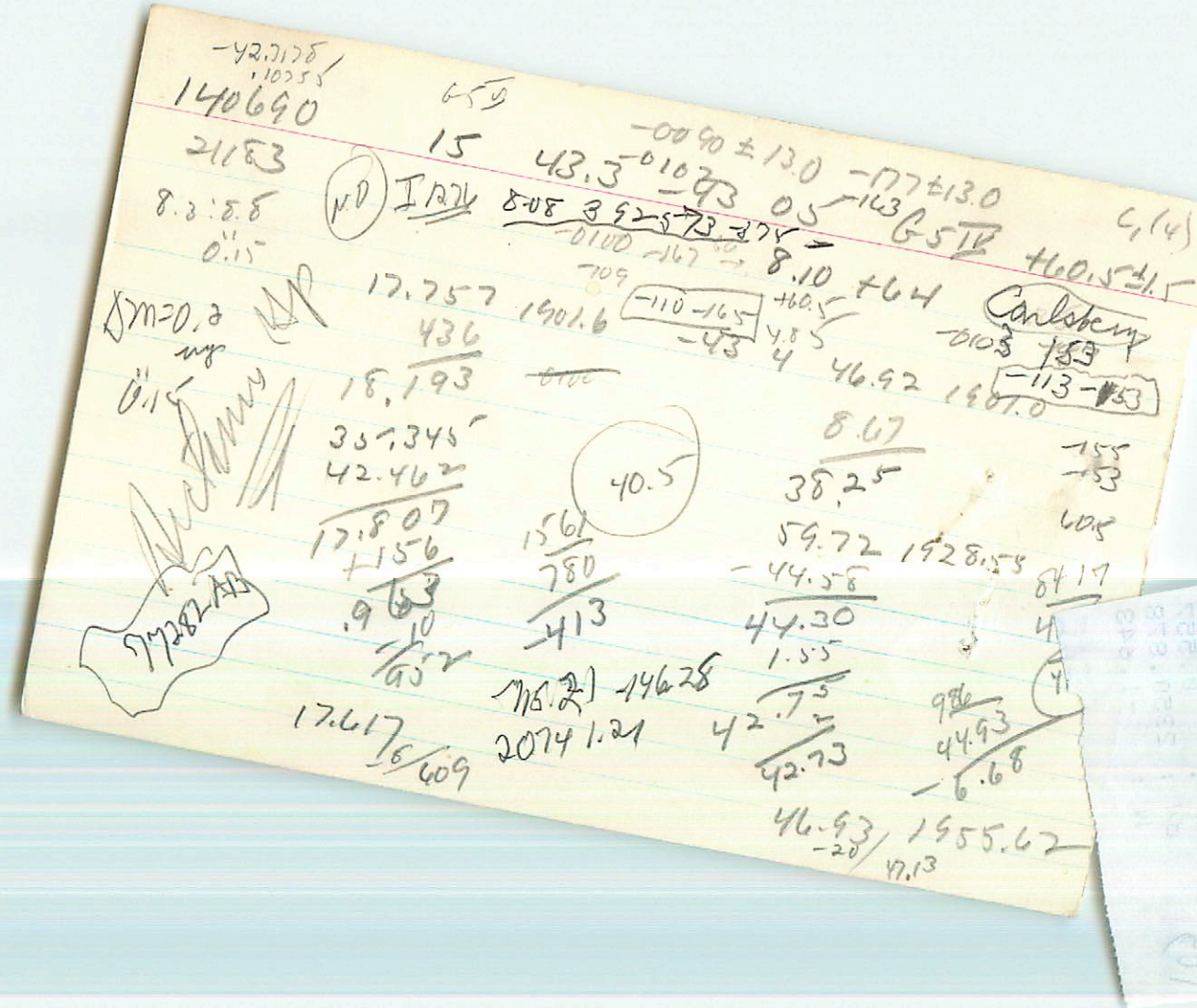
105



```
      R.A. :    15.650
      DEC. :   -10.750
PM.   R.A. : %-1134.000
PM.   DEC. :  -300.000
DISTANCE   :     3.000
 MODULUS   :    40
RAD. VEL.  :  -170.900

   q1 (U)  :     -0.449
   q2 (U)  :      0.335
   q3 (U)  :     -0.828
       dU  :  1894.879
        U  :   217.010

   q1 (V)  :      0.662
   q2 (V)  :      0.747
   q3 (V)  :     -0.057
       dV  : %-4559.81
        V  :  -171.795
```



103

0.557

dW : 2350.878

W : -1

106

R.A. : 15.700
DEC. : -43.100
R.A. : -155.000
DEC. : -153.000
TANCE : 5.000
DULUS : 100
: 60.500


R.A. : 15.700
DEC. : -43.100
R.A. : -155.000
DEC. : -153.000
TANCE : 100
DULUS : 60.500

-0006 ±5.0 -124 ±3.2 -54[illegible]

+0003 -122

141353 [illegible] 15 45.9 +13 57 6.1 g 182 -5378

21245 [illegible]

9107 53,366 1915.2 +13 56 33.81 1909.5

021 +5.02

1245 [illegible] 387 -00015 -1286 + 38.83

-00005 -1185

53.368 36.37 1934.3

254 17 -00[illegible] -14

385 -53.7 23

[illegible] 53.381 +002 -116 0.8 36,

20 35.84 1940.43

.401 -21

393 35,63 H.73

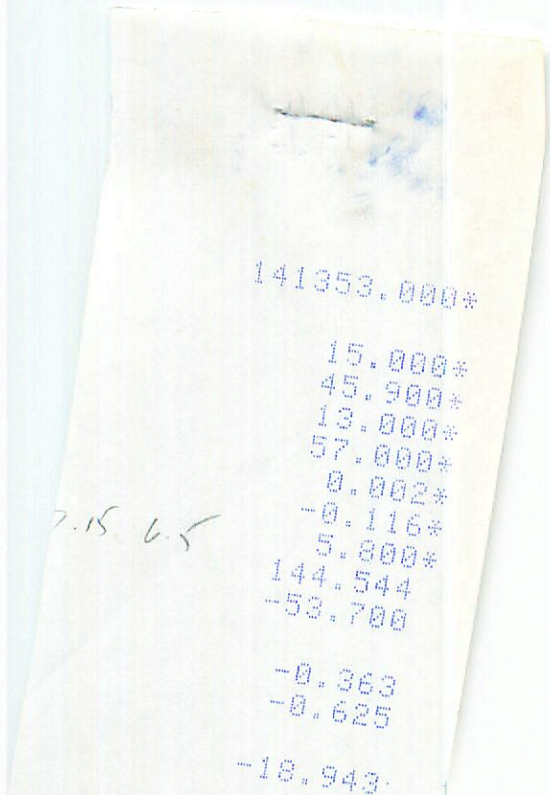
+106 35.43 37.4

-3,40 27.9

22.2

1.18
0.11
9.58
7.0

95
88 88 8
95


141353.000*
15.000*
45.900*
13.000*
57.000*
0.002*
-0.116*
5.800*
144.544
-53.700
-0.363
-0.625
-18.943

142373 15 50.9 +42 35 4.6 dF7 -55.2a

21340 4.60 +0.56 +0.01 F9E

9153 +0348 36 +627 40 N30

+0394±13 +634±1.4 GL → N3 V

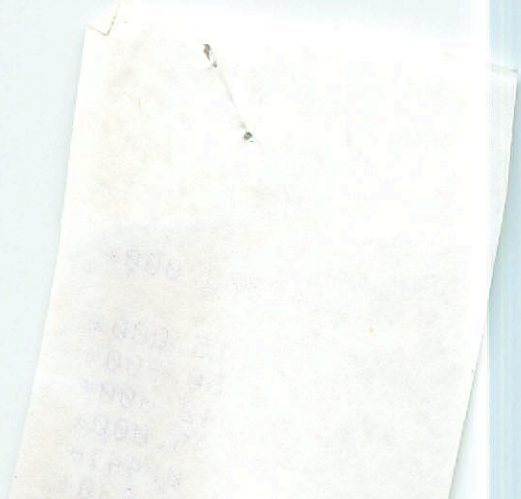
+0957 +0.62 23 T1 FRY 4.72 +205 35

+437

+441 +630 -55.✓

1.5

-63.270



142373.000*

15.000*
50.900*
42.000*
35.000*
0.441*

14233 15 50.9 +42 35 FSB

HR5914

GC21340

I(X)Vir 220

4.62+57 005

327

401 142 (11)

.880 .158 .322 (4) SPC 2601 (6)

[m] 220 +57

[4] 247 1.30 +45.7 +12.9 -71.1

+1777 +2778 -1570

-11 80 132

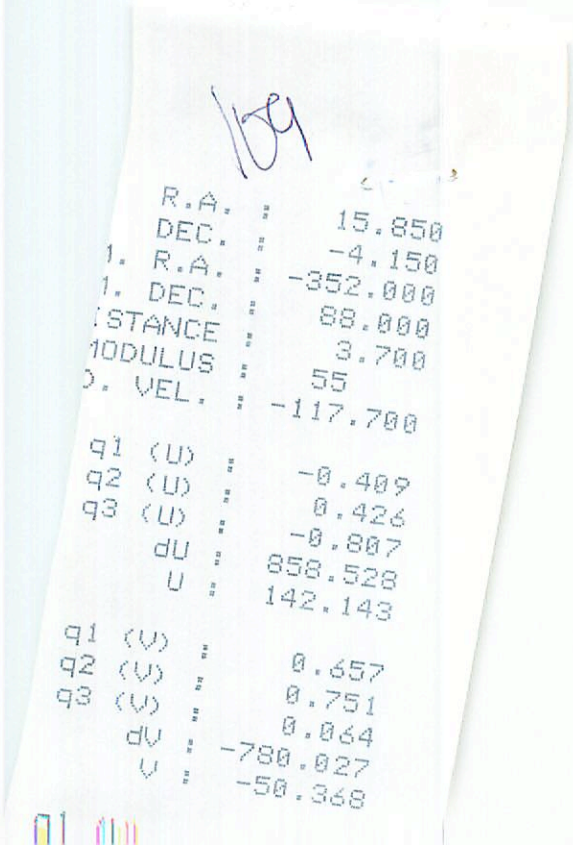
G16-15 15 51.9 -4 08 -117.7 (5)

362.04°

-351.088

11.49 0.94

-352
88
3.7
-117.7



109

R.A. : 15.850
DEC. : -4.150
1. R.A. : -352.000
1. DEC. : 88.000
ISTANCE : 3.700
10DULUS : 55
). VEL. : -117.700

q1 (U) : -0.409
q2 (U) : 0.426
q3 (U) : -0.807
dU : 858.528
U : 142.143

q1 (V) : 0.657
q2 (V) : 0.751
q3 (V) : 0.064
dV : -780.027
V : -50.368

-3123353

-31.12353 √5 57.6 -36 29 F6/7 IV

191864 +311

-36.1123 -0011 -004 +PM

-004-004

-16

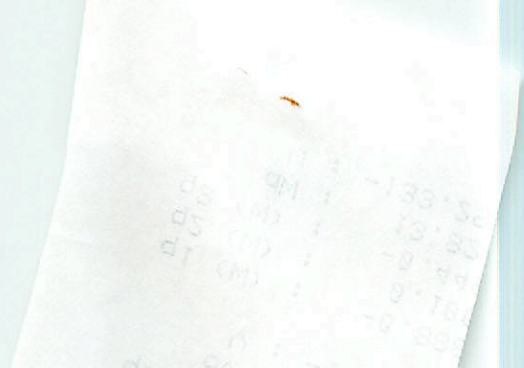
-4

8.40 444 801 479 8.34

-079 Δ 3 11

1.087 574 064


DW : 1264.003
W :
110



```
M   : -133.29
MP  : 13.82
(M) q3 : -0.449
(M) q2 : 0.100
(M) q1 : -0.888
U   :
```

אלגברה (ש"ל)

מבוא לאלגברה מודרנית

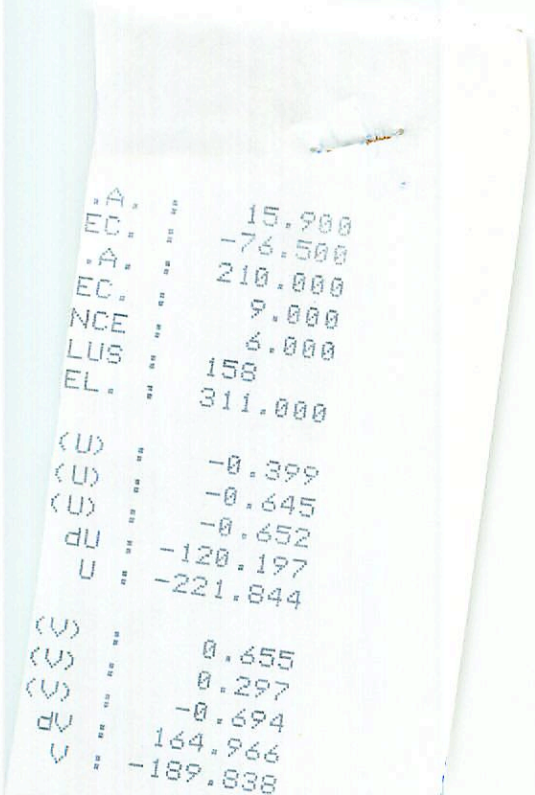
תרגילים

פרופ' יעקב אורבך

שנה"ל תשע"ג

סמסטר א'

159


.A. : 15.900
EC. : -76.500
.A. : 210.000
EC. : 9.000
NCE : 6.000
LUS : 158
EL. : 311.000
(U) : -0.399
(U) : -0.645
(U) : -0.652
dU : -120.197
U : -221.844
(V) : 0.655
(V) : 0.297
(V) : -0.694
dV : 164.966
V : -189.838

G-16-20 [illegible] 5518 402 12

10.82 0420 0089 0.276 2.570

142 948 15 5.1 -5.3 41 G5 III/IV

+2.0

~~43.965~~

-53.696

-0040 -066 88 ᴹ

-036 -066

-40

-66

+2.0

8.05 6.4 213 470

(343)

-$3
640
+31
-55
-24

112

R.A.	:	15.950
DEC.	:	-53.700
. R.A.	:	-60.000
. DEC.	:	-66.000
STANCE	:	5.000
ODULUS	:	100
. VEL.	:	2.000
q1 (U)	:	-0.389
q2 (U)	:	-0.346
q3 (U)	:	-0.854
dU	:	173.629
U	:	15.655
q1 (V)	:	0.654
q2 (V)	:	0.550
q3 (V)	:	-0.520
dV	:	-282.028
V	:	-29.243
q1 (W)	:	-0.649
q2 (W)	:	0.760
q3 (W)	:	-0.012
dW	:	-128.570
W	:	-12.882

10.3

W9231 14 01.3 +66 5C dG7e -137.6 δ

+67.922

11.001 13

-017 +004 GP 9.44 +78 -68 R

1/20

12.5'

A -026 +6

-001 -012 G'

391

-375	+916	+137	+0271	+0260	+0531	+26.6	-18.9	+7.7
+652	+159	+742	-0467	+0045	-0422	-21.1	-102.1	-123.2
-657	-370	+657	-0470	-0105	-0575	-28.7	-50.4	-119.1

Orion 348 354 42 0 174 40 2625 Sp.B. P = 39.1
144284 16 00.9 37 +58 42 4.1 dF7 -8.5a
21572
9227
HR5986
-0414 50 +337 74 N30
-0414±0.8 +337±0.8 EC → N30
-04168 +3362 F124
-3258
-3206 +3384
8.5
1.4
-14.6
9510 +4.31
-3091 7400
-04135 +3390 W 50 1.47
-04144 +3384
-3282
-3190 +3406
4639
0458
+4.25
0508
3.84 ±0.15 3 J
9471 -6116
-3209 7872
-6317.6 3381
F5
4674
0416
+34
0511
1.416

144284.000*

16.000*
0.900*
58.000*
42.000*
-0.321*
0.338*
1.400*
19.055
-8.500

2.056
0.002

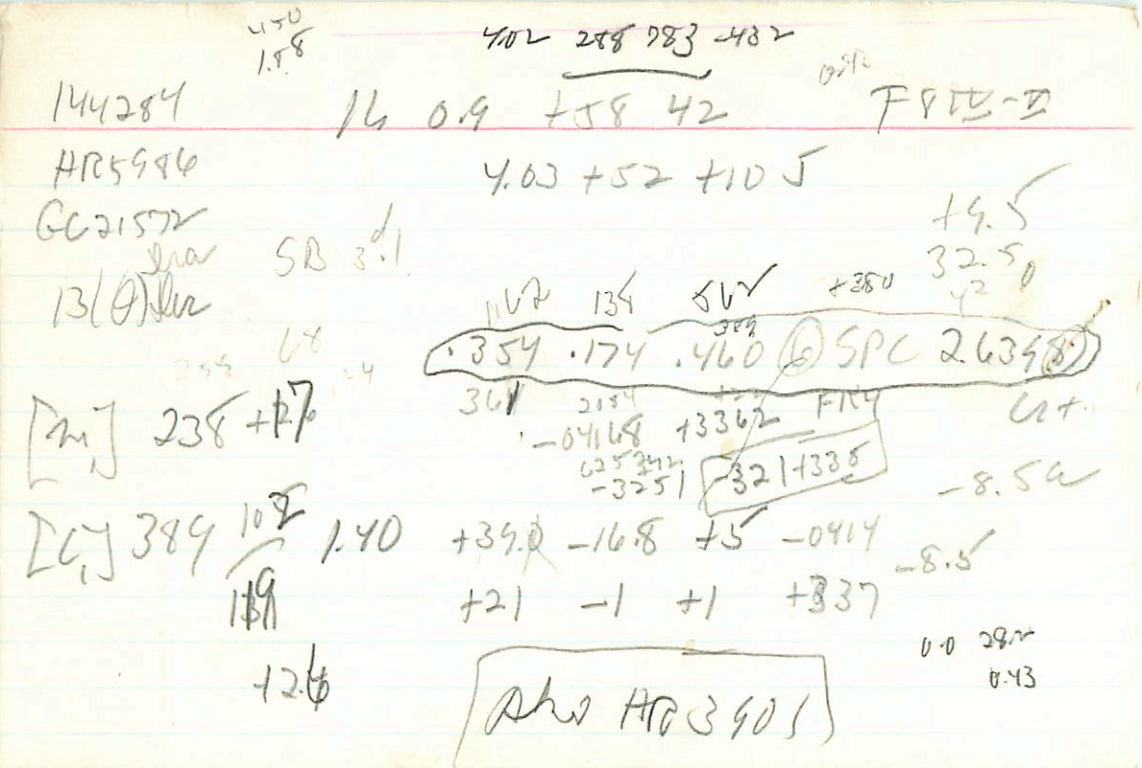
15.01
39.157
-0.02

-0.571
+1.0 0.712

-16.941

0.573
0.702

4.949


144284
HR5986
GC21572
SB
[m] 238 +17
[C] 389 1.40
+12
4.02 288 283 482
1h 0.9 +58 42
4.03 +52 +10
+9.5
32.5
.354 .174 .460 SPC 2634
-041.68 +3362 F14
-3251 321 +335
-8.5
+39.2 -16.8 +5 -0414
+21 -1 +1 +337
-8.5
Ahd HR3901

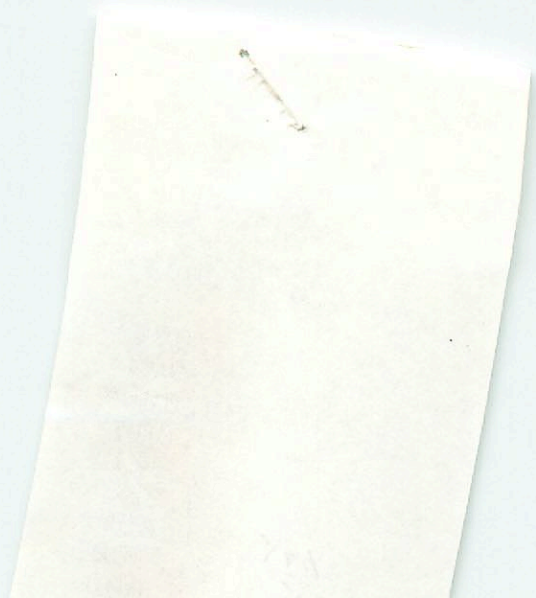
625²
25
1250
1250
3125
3125
0

25.1
+2

-17.9
-26

+24

14



5985.000+

15.000+
3.900+
53.000+
42.000+
-3.321+
3.339+
1.650+
21.380

AG Dra 16 01.3 +66 5C

-137.6
-.015" +0.006"

9.44 +0.88 -0.68 Romm

9.81 +1.35 +0.29 29 Jun 1964

9.73 8.81 +0.55 27 Jun 64

9.50
-2 -116 -107
+5" -4 -6

AG Dra

+67° 922 16 01.3 +66 56

134

144822 16 04.7 +38 46 dRS- +24 (WB)

GC21663

W9267 8.60 +0.96 +0.71 N3ER

X3654 S=05

+350250

+239 ±7 -546 GC ±7

-61 +4 +2 .050

-76 +1 -3 .0345

+365 R WB

53A(16)
62X(14)

56±7

163

+0204 ±73 −546 ±6.9

+0197 −547

−876 −482 627 779 +239 −546 +24.0 −342 +15 −2.014

209 −300 −115 165 208 −1.966 +18.7 −9 −16

41.891 1904.2

934

40.957

48.09

53.302

41.399

10

402

94

.303

41.45

20

470

773

386

429

23.5

+38 46 21.97 1904.1

2504

47.03

−4 −67 −37

−76 0 −3

0385

38.6 1925.2

−3.32

35.28

45

3

36.1

+11

36.24

33.1 1930.2

−35

32 7 5

3

899

34.50

−1253

5.4

27.7

23.4

144889 16 05.2 +21 57 gK5 +5666UG

GC21678

4276 6.14 +1.37 +1.51 144III R

-61 -15 +40 .005

-53 -4 +40 .007

-015 ±5 -048 ±4 GC

-018 ±5 -046 ±5 V

+0.555 2Vab

-0011 ± 5.1 -048 ± 3.9

-0015 -050

12.074 1896.4 +21 5-7 19.89 1893.7

059 2.70

133 22.59

12.082 20.72 1934.5

9 -5

091 080 20.67

12.059 -053 20.43 1928.4

+9 -23

068 20.70 129

20.68 31.4

-1.91 37.7

34.8