

+30° 26 11

15 04.7

+30

12

68 11

(X)

-278.2 t

10.9

+011 -003 Ring

+012 +0005 P124

~~+015 +004~~

+15 -1004

+015 -015 AG12

+013 -008

+016 -005

(X)

67

1000.00
1000.00
1000.00
1000.00
1000.00
1000.00
1000.00
1000.00
1000.00
1000.00

1000.00
1000.00

1000.00
1000.00

1000.00
1000.00

LA
D

30.261*

15.000*

4.700*

30.000*

12.000*

0.016*

-0.005*

7.500*

150.56 316.228

-276.200

119

150.56

-0.060

-0.341

43

75.185

0.035

0.360

-47

-88.440

6A

-0.038

0.868

-77.161

3.438

0.529

15.100

30.200

17.500

4.900

10.1514

104.713

131 -276.200

-0.552

-0.760

-0.344

-0.449

104.713

0.660

0.654

0.362

21.268

-67.500

-0.029

0.064

-6.654

-249.190

7

+30°26.1

15 04.7 +30 12 ~~dg2~~ -278.2 6

w(4)

w8742

9.13 +1.24 +1.13 G8III

-274.2 ± 0.716

+0.11 ± 5 -0.03 ± 5
+1 -2
-1.2 -5 *Reitz*

dg2 int w

G8III Roman = 1000

+1.24 = K3III very very

+0.15 +0.07 *Reitz*

+0.15 - 0.15 *AGN2*

+0.18 - 0.12

CH strong
Not III -
probably II -
(may be late poor)
Lines rather weak
for color. Extreme!!
deficiency if K3III

Just a dully

-207-207 502 865 +011-003-228.2-002-139-012

008-001-008 001 033 -042 +170 +170 0-01

18 112-71

98-58-114

-176-21-71

+203 +128 -151
+59 -70 -264

89

1795

G-30-54

42.13

d
P=184

225 105⁰

314 54

324

84

90

64

0 0.9 814 17

8.54 0.81 0.27

~~12.5~~ 80

12.9 12.4

13418f
134440

15 07.5 -16 49

69

P.A. :
DEC. : 0.154
R.A. : 14.300
DEC. : 324.000
ANCE : -84.000
ULUS : 0.000
VEL. : 831
-9.000

(U) :
(U) : 0.888
(U) : 0.444
BU : 2.218
U : 111.207
262.813

(U) :
(U) : -0.444
(U) : 0.888
BU : 0.444
-208.000
-208.000

R.A. : 0.150
DEC. : 14.300
R.A. : 324.000
DEC. : -84.000
DISTANCE : 9.000
PARALLAX : 631
RADIAL VEL. : -9.900

1 (U) : 0.869
2 (U) : 0.444
3 (U) : 0.218
dU : 1117.297
U : 702.813

1 (V) : -0.469
2 (V) : 0.604
3 (V) : 0.644
dV : -939.000

133⁹ 42

15 05.9 -59 04

F5/6W

58.5832

Very underexposed; possibly
weak lines; F band not
metallic lines yet F2/3

P Pelt
1005

+5023	-005	C
- 5	- 9	
<hr/>	<hr/>	
+5018	-014	
+ 3	-085	

+022

+020 +011

+24

+11

-

585

+0035	-008	Sydney
+0021	-002	
<hr/>	<hr/>	
+0028	-008	

Handwritten notes on a separate piece of paper, partially visible on the right edge.

LD

1/1

1139 + 31

123

70

4497 759-013 109 513 2703

135449

15 13.1 -32 42 F/GW

3210648 714

160

-23.0 -44(2) 150
-57(2)

Metals not visible at all; G

band faint but present; CaH+K
yield about A9; very narrow... (0.98)

54 023

P Full -50

9.41 336 079 561 (3)

9.35 336 071 551 (1)

0094 -049 Y + L 100 -149

2.670

912

410

70

-125-046

336 075 557

-46
-57.0
6.4

9.40 336 074 556
252 009 541

-0106-041 1PM

959

71

6.24

-50

-134-041

-5

6.58

111.5

-86.3

180

27

DEL. 10.000
R.A. 10.000
DEC. 10.000
ANCE 10.000
DULIS 10.000
VEL 10.000

PI (U) 10.000
PS (U) 10.000
TS (U) 10.000
DU 10.000
U 10.000
100.000

10.000
10.000
10.000
10.000
10.000

10.000
10.000

R.A. : 15.200
DEC. : -32.700
R.A. : -159.000
DEC. : -41.000
DISTANCE : 6.240
MODULUS : 445
VEL. : -50.000

q1 (U) : -0.534
q2 (U) : 0.032
q3 (U) : -0.845
dU : 322.525
U : 190.088

1 (V) : 0.668
2 (V) : 0.629
3 (V) : -0.398
dV : -545.632
V : -222.701

(W) :
(W) : -0.519
(W) :

615-24

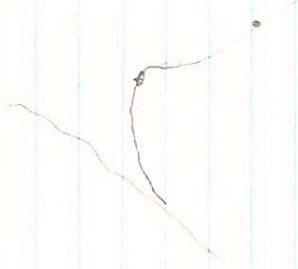
15 28.3 +8 34 24.6

205 41

11.48 +0.57 -0.11 25ndyp

-88:①

-348 -105 hich ③



72



72

0.000*

15.000*

28.300*

8.000*

34.000*

-0.395*

28.0 +8 34 1950 2-5a
 28.5 +8 32 1960 11.43 +0.57 = 0.11
 15

$S = 21$

$\rho = -84.6 \pm 0.6$ (plants)

138 panels

- .400 0.00

-483	+507	-714	+916	+126.4	+60.4	186.8
+668	+712	+97	-1261	-174.0	-6.5	-180.5
-569	+438	+694	+1079	+148.9	-58.9	+90.0

G-15-24

15 28.3 +8 34 11.6(6)

1 Sample

-84.6 ± 0.6

$\delta = .21$

11.43 + 0.57 - 0.11 2 Sample

1.42 26.1
1.08 24.5

$\frac{.152 - \mu_2}{\mu_2}$

$\tan^{-1} = 10.70 =$

$11.70 \mu_2^2 = .152 \mu_2^2 \approx .0130 \mu_2 =$

$\mu_1 \mu_2 =$
- .373 = .114

-483	+586	-652	+8539	-3167	+5372	+741	+55.1	+129.2
+645	+728	+161	-11757	-3934	-15691	-2165	-13.6	-230.1
-569	+356	+742	+10060	-1924	+8136	+112.2	-63.6	+48.6

1P803-27

6-115-107

15 428 -20 265 -248

1.230-614

-1875

619

20

140



73

R.A. : 12.700
DEC. : -20.450
PM. R.A. : X-1312.00
PM. DEC. : -614.000
DISTANCE : 4.000
MODULUS : 63
RAD. VEL. : -299.000

p1 (U) : -0.439
p2 (U) : 0.189
p3 (U) : -0.878
q1 : 2010.152
U : 388.002

p1 (V) : 0.491
p2 (V) : 0.730
p3 (V) : -0.174
q1 : X-2526.52
U : -322.271

p1 (W) : -0.208
p2 (W) :
p3 (W) :

R.A. : 15.700
DEC. : -20.450
PM. R.A. : % -1312.00
PM. DEC. : -614.000
DISTANCE : 4.000
MODULUS : 63
RAD. VEL. : -298.000

q1 (U) : -0.439
q2 (U) : 0.189
q3 (U) : -0.878
dU : 2010.165
U : 388.605

q1 (V) : 0.661
q2 (V) : 0.730
q3 (V) : -0.174
dV : % -5976.52
V : -325.271

73
q1 (W) :
q2 (W) : -0.608
q3 (W) : 0.457

+5.000 15 434 +5 12-

G-16-9 254 288

882 hse
9.14 0.83

p=6/13

242 78

514

151
151

252
28

0.0
11.5

74

141276
+2,3001

15 45.6 t01 44

27.9

724 479 824 3044 (P)
7042 478 BGV

018-165

197-165

-05
743
+5.89

197

165

1.54

27.9

76

DATE	TIME	LOCATION	STATUS	REMARKS
12/28	14:00	DEC.		
12/28	15:00	R.A.		
12/28	16:00	DEC.		
12/28	17:00	STATION		
12/28	18:00	MODULUS		
12/28	19:00	VEL.		
12/28	20:00	p1 (U)		
12/28	21:00	p2 (U)		
12/28	22:00	p3 (U)		
12/28	23:00	U		
12/28	00:00	p1		
12/28	01:00	p2		
12/28	02:00	p3		
12/28	03:00	p4		
12/28	04:00	p5		
12/28	05:00	p6		
12/28	06:00	p7		
12/28	07:00	p8		
12/28	08:00	p9		
12/28	09:00	p10		
12/28	10:00	p11		
12/28	11:00	p12		

R.A. : 15.750
DEC. : 1.750
R.A. : -177.000
DEC. : -165.000
DISTANCE : 1.540
MODULUS : 20
VEL. : -27.900

q1 (U) : -0.429
q2 (U) : 0.507
q3 (U) : -0.748
dU : -36.316
U : 20.125

q1 (V) : 0.660
q2 (V) : 0.741
q3 (V) : 0.123
dV : % -1133.040
V : -26.470

q1 (W) : -0.617
q2 (W) : 0.440
q3 (W) : 0.652
dW : 172.677
W : -14.693

141702

15 48.7 42 26

FL/98

MT. 2269

8.14 309 740 454

Uhu

MT. 10847

8.16 354 141 470 2.629 3.2

MT. 7216

8.14 355 125 431

8.16 353 138 428 2.629
424
41

8.16 324 147 419

425
41

8.16 304 114 404

100
100
377

146 420
136 411
136 407

1002 1000 013

Voluntary

0557

804
8948
42

066-013

89
23
439

80 376

13
16
#10

76

12.835
- 248.300
0.453
0.453
0.453
U : 18.444
DU : 140.448
D3 (U) : -0.893
D2 (U) : -0.183
D1 (U) : -0.410
VER. : -3.390
DULUS : 70
TANDE : 0.398
DEC. : -13.000
R. A. : -09.000
DEF. : -43.130
R. A. : 18.888

R.A. : 15.800
DEC. : -42.450
R.A. : -89.000
DEC. : -13.000
DISTANCE : 4.390
MODULUS : 76
VEL. : -3.200

q1 (U) : -0.419
q2 (U) : -0.162
q3 (U) : -0.893
dU : 140.448
U : 13.464

q1 (V) : 0.659
q2 (V) : 0.623
q3 (V) : -0.422
dV : -243.380
V : -17.027

191864 15 Feb 76 29 Feb 76

276.11ms

9.00 0.59

316 ①

049 019

203

9

8.5

2

316

27

R.A. DEC 15.000
R.A. DEC -78.500
R.A. DEC 203.400
R.A. DEC 9.000
R.A. DEC 8.500
R.A. DEC 301
R.A. DEC 316.000

R.A. DEC -0.329
R.A. DEC -0.045
R.A. DEC -0.032
R.A. DEC 117.100
R.A. DEC 1.247

R.A. DEC 100.000
R.A. DEC 100.000
R.A. DEC 100.000
R.A. DEC 100.000
R.A. DEC 100.000

R.A. : 15.900
DEC. : -76.500
M. R.A. : 203.000
M. DEC. : 9.000
DISTANCE : 8.500
MODULUS : 501
RAD. VEL. : 316.000

q1 (U) : -0.399
q2 (U) : -0.645
q3 (U) : -0.652
dU : -117.108
U : -264.747

q1 (V) : 0.655
q2 (V) : 0.297
q3 (V) : -0.694
dV : 159.889
V : -100

142575

15 52.6 + 8 13 1=0.1

FB0

0.6

math

200 106 504 530 104

$$-0189 + 033 GC +$$

$$-0185 + 037$$

$$-64.8 f$$

$$-282 + 037 \rightarrow 844$$

$$-259 + 028 \rightarrow$$

$$-291 + 042 \text{ AGH2}$$

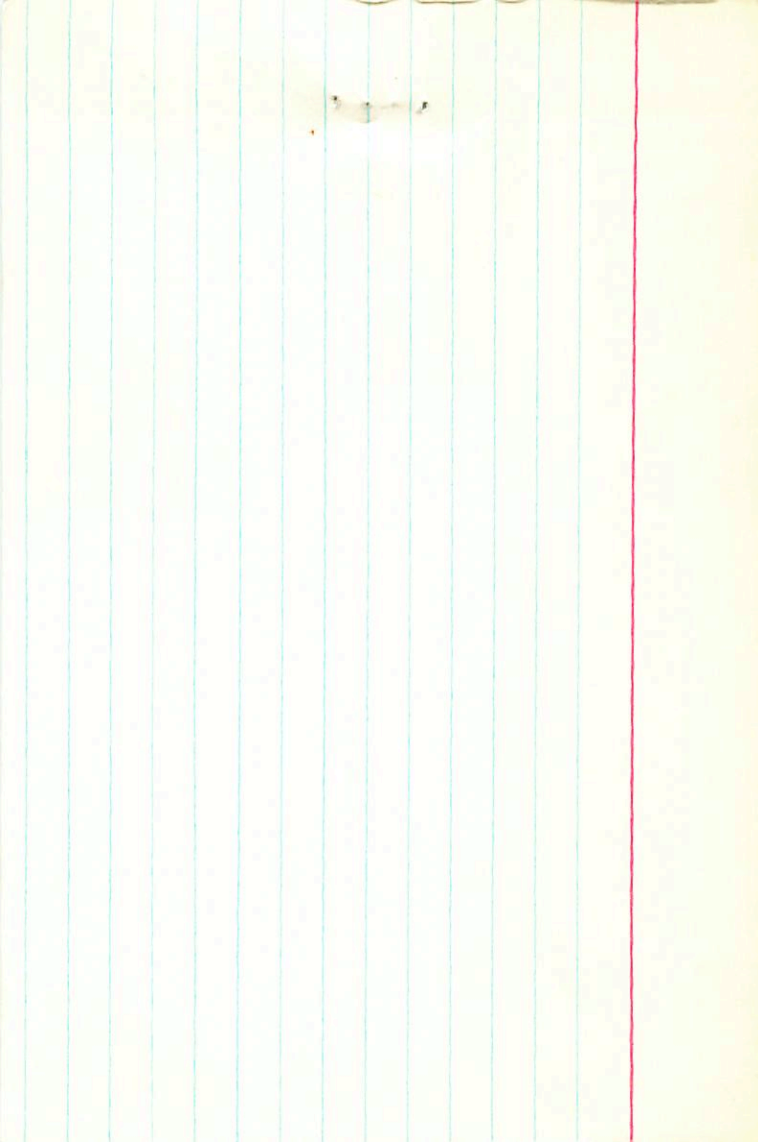
$$-277 + 036$$

$$-64.8$$

$$-275 + 038$$

$$8.4$$

5
-0194 + 40 GC
-0194 38 new(3)
-0173 + 30 Tale



142575
-6486⁵ ¹⁰⁰⁰⁰⁰

15 53.6 +5 133

80.2

6621372 433
+503113 6.10^{2.5}
8.75
35.119 1506.5
84
963

S=10

8.62 + 38 - 0.8 = 0.2

54.72 1405.1
1.55
53.17

433
8.1

15448.7 + 3448.0
-184

-256 + 305 = 4

464(10)

26.4

-250 + 39420
-275 + 37 new
-254 + 242

54.31 1936.4
-22
54.09

495
495

858
+ 8
858

-261 + 43
-285 + 44
-194 + 40
-184 + 38
-173 + 30

54.4 1929.4
-34
54.04

5400
89

Callaway
NO

118

-184 + 36

-184 + 36

4.60 = 83.2-pro

82

-404 + 551 - 729
+ 656 + 730 + 189
- 637 + 346 + 654

+ 5266 + 0094
- 8551 + 0125
+ 8303 + 0068

+ 5360 + 446 + 47.2
- 8426 - 701 - 12.2
+ 8371 + 696 - 42.6

+ 91.8
- 82.3
+ 27.0



1914

JULY

AUG

SEP

OCT

NOV

DEC

JAN

FEB

MAR

APR

MAY

JUN

JULY

AUG

SEP

OCT

NOV

DEC

Handwritten initials or signature.

11

142575.000*

15.000*

52.600*

5.000*

13.000*

-0.283*

0.042*

4.000*

63.096

-64.800

50
100

3.75

56.56

0.651

-0.730

4112 +84

88.373

-0.735

0.190

86 -54

-58.657

88

0.935

0.657

151 +11

16.431



142575.000*

15.000*

52.600*

5.000*

13.000*

-0.275*

0.038*

5.400*

100

18

141 664

-76.1123

QF
320 Vans

500 069

15-5-26 -74

049 009

500 069

8.50

6091 577 065

209
9

8.88

311

SE

① Met

F6/9 w?

19/30/20

15 201 for me

-324.4(5)

29

R.A. :
DEC. : 12.988
M. R.A. : -76.450
M. DEC. : 209.800
DISTANCE : 9.800
MODULUS : 8.550
VEL. : 213
: 211.000

P1 (U) :
P2 (U) : -8.399
P3 (U) : -8.644
DU : -8.633
V : -150.867
: -264.376

P1 (U) :
P2 (U) : 8.855
P3 (U) : 8.597
DU : -8.644
V : 184.817
: -131.374

R.A. : 15.900
DEC. : -76.450
1. R.A. : 209.000
1. DEC. : 9.000
DISTANCE : 8.550
MODULUS : 513
D. VEL. : 311.000

q1 (U) :
q2 (U) : -0.399
q3 (U) : -0.644
dU : -0.653
U : -120.067
U : -264.546

q1 (V) :
q2 (V) : 0.655
q3 (V) : 0.297
dV : -0.694
V : 164.817
V : -131.374

q1 (W)

6627

959

43

5965

3343

59652

6355

93

492
471
39

+17

step by

7.637

143333

15

57.5

-16

23

182

405554

5.44 + 0.52 + 0.02 = 5.98

5511295

45 WA

5.45

328

176

437

2638 ③

2269

320

320

176,115

176,115

-044A

-3960

1-N4

176,115

176,115

235 + 5

627

-6355

-25.00

-25.00

371 + 49

54

+43

+43

+43

+43

+43

+43

128

2.36

+42.8

-9.7

+12

-0.437

-25.0

-25.0

1395

+7

-34

+8

-357

-357

-357

-357

2.10



0.000*
15.000*
57.500*
-15.000*
-23.000*
-3.635*
-3.394*
2.100*
25.303
-25.000

3.712
-3.890

43.967

-3.373
-3.079

-85.736

3.816
3.450

13.208

SYE
SAT

80

144287
6021599
49241
73649
12503020

16 02.0 +25 23 268 -41C
GFPD

7.11 10.77 10.32 0.88 1.1
S = .06

+92 -12 +18 .0475
+81 -15 +7 .060

'13 45
-554 +676 N30
-528 +667 GC
-53125 +62215X
-538 +672

27M (6)
531216

Wicki Dow

4159

270

10/10

55
-42.60(4)
-36.10(8)
-44.5 ± 0.7 80

584
+146
1.6
361

-870 442 429 503 -538 4672 -44.1 288 -19 2875
-468 251 265 -142 -1.5³45 2.445 -40.2 +20 +35 .04

-18 +56 +55

1108 -11 +26

1450293

16 07.4 -13 22

Fy/BWAS

13.13.07

1503

44 08

100y W98 018 631 ①

4

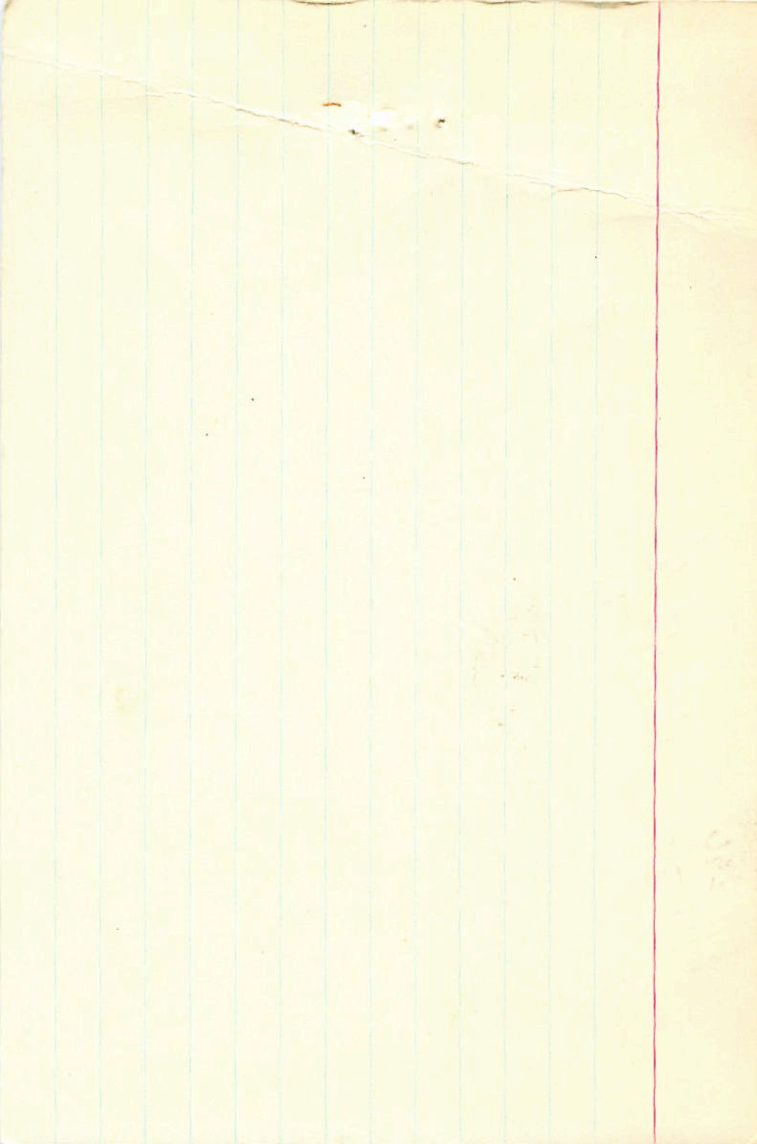
146296
 $-70^{\circ}1402$ $14 \quad 15.9 \quad -71 \quad 10 \quad G0 \quad 41.451.2$
 $+3688$ $9.77 + 72 - 12' 24''$ 3 down

$978 \quad 378 \quad 132 \quad 379 \quad 209$ $-53 \quad -32 \quad \text{lin}$
 $-0102 \quad -395$

$-001 (10 \times)$
 $035 \checkmark$

2.590
 40 po.
 -065 HP
 1.60 M
 $M. \sqrt{160}$

-322	-612	-722	$+0763$	$+1.1458$	$+1.2221$	$+48.9$	$+29.9$	$+19.0$
$+640$	$+421$	-643	-1517	-1.7882	-9399	-37.6	-266	-64.2
-697	$+669$	-256	$+1652$	-1.2526	-1.0874	-43.5	-106	-54.1
					62 po	$+77.0$	$+47.1$	
						-59.4	-86.0	
						-68.5	-79.1	



146296

-2001402

43686

1.0

2002156

340
91.65

16 15.9 -71 10 GO

GOV Household
Country

114 610

235

9.76 + 0.605 = 0.065 (2)

+414 cleaning (3)

~~530 - 220 BEM~~

~~-490 - 440 BEM~~

~~-476 - 396 CR~~

0.3 (1)

1

75
-128.3
+38

81





146296.000*

000*

1911年

2

Putka

3.2

146296.000*

~~150.1~~

16.000*

~~152~~

15.900*

124

-71.000*

131

-10.000*

-0.476*

-0.396*

4.500*

37

79.433

5495

41.400

1.881

-0.720

+ 73

119.567

-2.231

-0.644

-149

-203.858

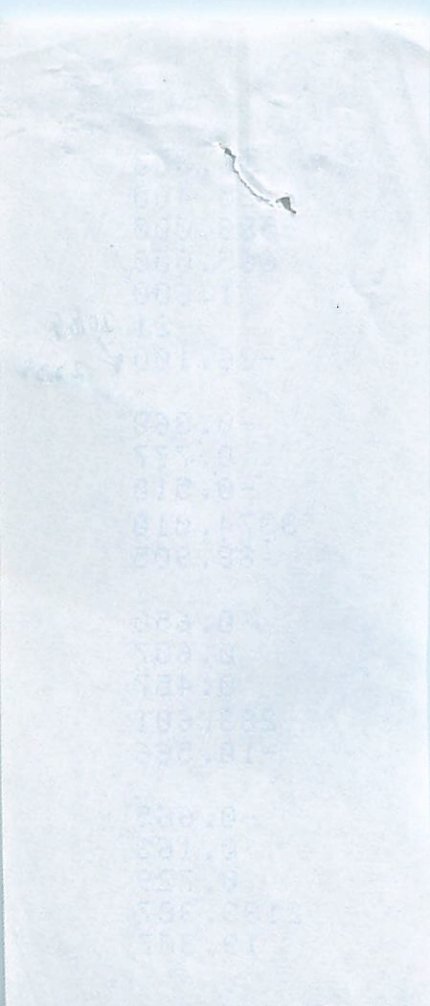
8

0.317

-0.258

+7

14.472



16. 050
25. 400
-586. 000
665. 000
1. 600

21
-36. 100

20.54
← 22.22

-0. 360
0. 777
-0. 510
3374. 010
88. 905

0. 650
0. 607
0. 457
283. 601
-10. 566

-0. 665
0. 163
0. 729
2183. 387
19. 387

UV Oct

16 20.4

53 47 ✓

243 43 28.2 96 10.5 92-6 15

9.1

0.009 -123

7139
AP

10.5

8.6
-639

-123

7109

8.6

1.09

28

DM

R.A.
DEC.
R.A.

..
..
..

16.350
-83.800
-639.000
-123.000
8.000