

44.415

02

32.0

15

14

2.55

+5.25

-301

-585

3.25

72

2.500
5.250
-301.000
-585.000
3.250
45
-72.000

0.644
0.427
0.635
-2099.595
-139.483

-0.659
0.732
0.176
-1092.713
-61.469

0.389
0.531
-0.753

22

22

73-67

~~73-67~~

2

31

58

705

14

06

-74.2

25

975 90 63

-283

-585

-766

84

-754

979 834 Y87 733 (2)

25

5253-582

~0196 582

7525

-254

-286

-552

-585

308

345

-766

839 664 634 34

(1471)

665

(2416)

-754

R.A. : 2.550
DEC. : 5.250
R.A. : -294.000
DEC. : -582.000
DISTANCE : 3.080
MODULUS : 41
VEL. : -76.600

q1 (U) : 0.644
q2 (U) : 0.427
q3 (U) : 0.635
dU : % -2072.244
U : -134.210

q1 (V) : -0.659
q2 (V) : 0.732
q3 (V) : 0.176
dV : % -1104.075
V : -59.072

q1 (W) : 0.389
q2 (W) : 0.531
q3 (W) : -0.753
dW : % -2005.726
W : -25.204

23

~~130.000~~

+19.378

017 km. 10

2 32.5 +20

02-634 (2)

Zeynep

-036 -108

-38

708

5

24

+158①
+16.C

2 32.7 -9 40 R4

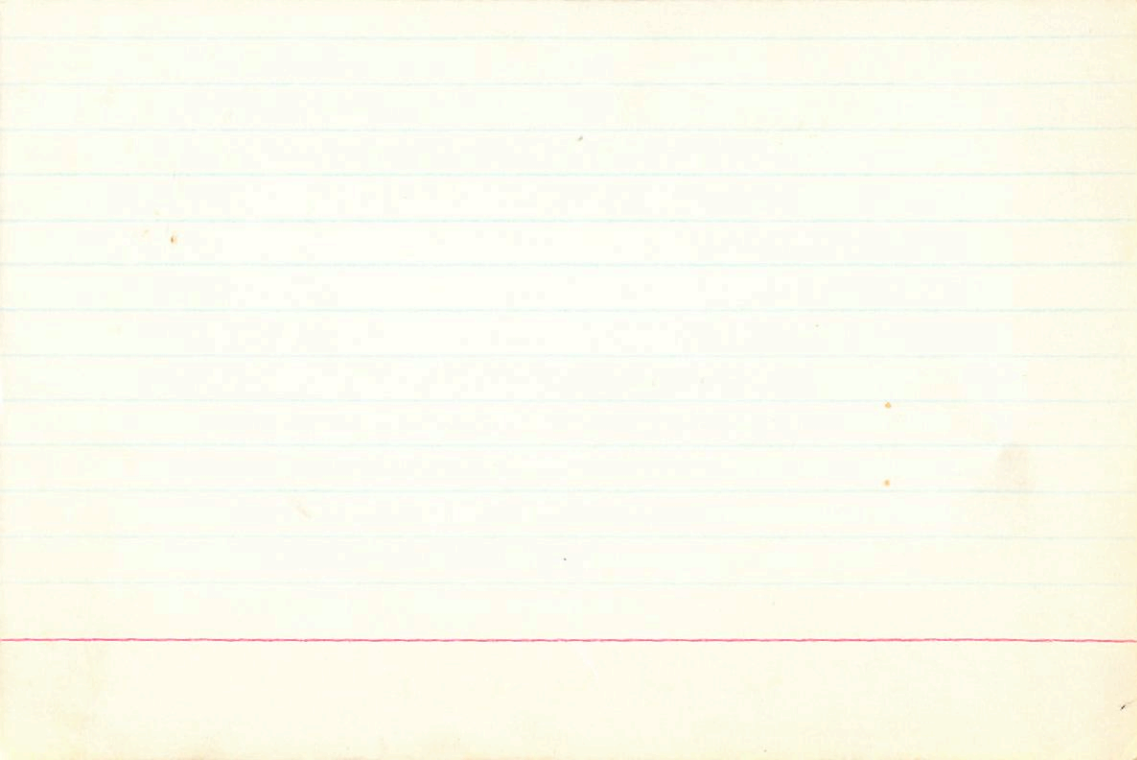
1615
-10°513

54
744 43
726
606
666
74

-0010 +012 balance
0
-017
+009

645	579	498	-0428	+0247	-0181	+2.7	+8.0
-658	752	-021	+0437	+0321	+0756	+23.2	-0.3
397	314	-866	-0263	+0134	-0129	-17.8	-13.8

↓



2 32.8 03 46 -50.7(3)

6C2104 d6-2 -53 R W(3)

W1456 B-V 2-13c +1.75 2 me clean

7519 6.52 +0.66 +0.21 R 6-514

-40426
796ct

6C -150⁴² -427⁴²

Y -162⁴⁹ -440⁴⁹

-71 -31 +8
-10 -62 D .040
-56 -23 +21 060

30⁴⁰ Y(10)

615 786 - 066 958 - 152 - 430 - 0100 42.4 - 42752.1
- 000 558 - 53.0 028 + 3 - 2033 - 434

094 - 017 - 119 022 341 - 644 - 529 - 42 - 33

- 32 - 53 - 59 633

49.390 18933 - 3 46 2007 886.6

- 78 - 36 + 9

105
32

957

34.066
15.420

45.1

48.55

1533.66

131.72

35.48

49.494
519

13.07

16.49

115.07

457
- 500

522

13.93

15.50

38.4

51.8

49.111
410

13.5
16.33

194.066

19.264
30 181

54.65
31.77

15.1
95

49.46 + 3
- 30 410

16.54
16.96

1411.35

1024) 2 331 -42 20

412.1

-14

86

1

25

R.A. 5.228
DEC. -42.358
PM. R.A. 12.108
PM. DEC. -14.888
DISTANCE 8.288
MODULUS 8.008
AD. VEL. 8.008

d1 (U) 8.444
d2 (U) 8.222
d3 (U) 8.112
dU : -22.927
U -18.812

d1 (U) 8.444
d2 (U) 8.222
d3 (U) 8.112
dU : -22.927
U -18.812

d1 (U) 8.444
d2 (U) 8.222
d3 (U) 8.112
dU : -22.927
U -18.812

R.A. : 2.550
DEC. : -42.350
PM. R.A. : 12.100
PM. DEC. : -14.000
DISTANCE : 8.900
MODULUS : 603
AD. VEL. : 0.000

q1 (U) : 0.644
q2 (U) : 0.757
q3 (U) : 0.112
dU : -22.927
U : -13.815

q1 (V) : -0.659
q2 (V) : 0.623
q3 (V) : -0.422
dV : -69.272
V : -41.741

q1 (W) : 0.389
q2 (W) : -0.197
q3 (W) : -0.900
dW : 29.599
W : 17.825

16082 2 33.4 451 45 7.3 $d=9-15.56$

1465

28

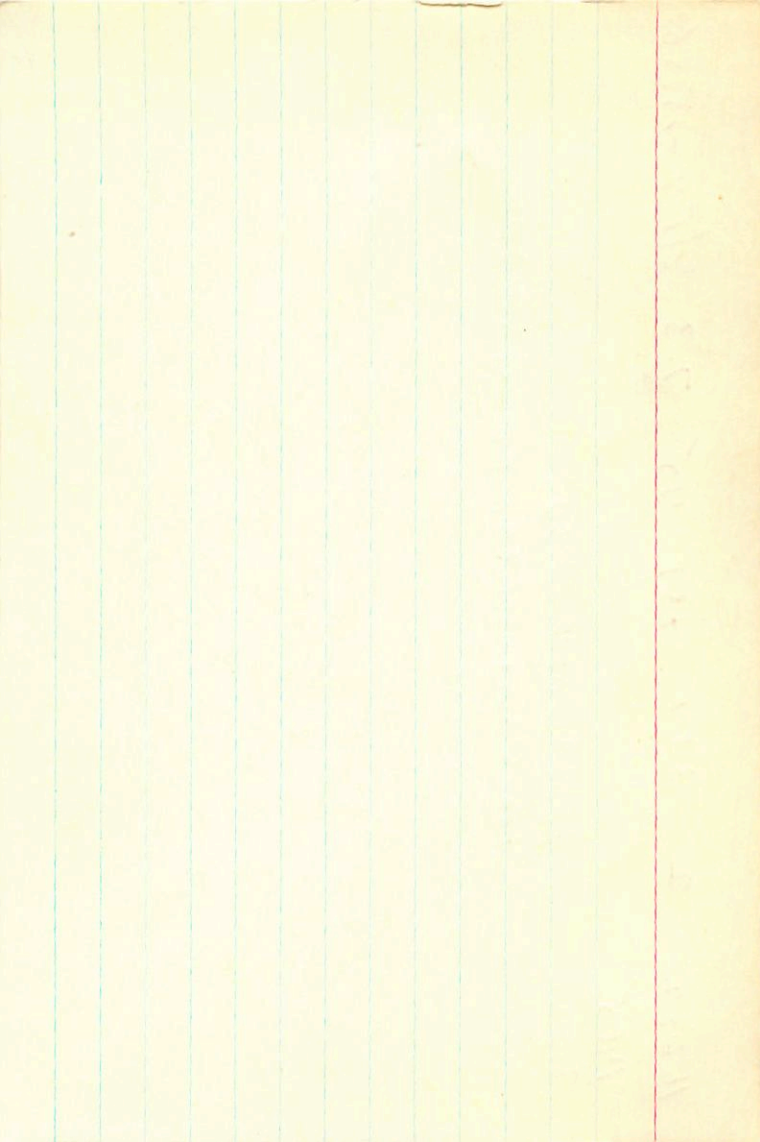
6.9 Rubit

3122

40003 0000 N30

467.599

40005 ± 2.3 -006 ± 2.0 GC con 4 200



16024

3125

1467

2

33.5

+65

32

6.1

125

+41.48

+0080±8.0

+0085

-007±5.4

-010

29.407

-393

.014

29.375

17

392

378

3

19009

+65

31

43.81

19086

0.29

44.10

43.80

1948.25

-0.08

43.72

HR 756

2

33.8

+38 31

5-9

+1.46

5.93 + 0.48 + 0.04

+146 -192 →

36.3 per

-639 006 769 4422

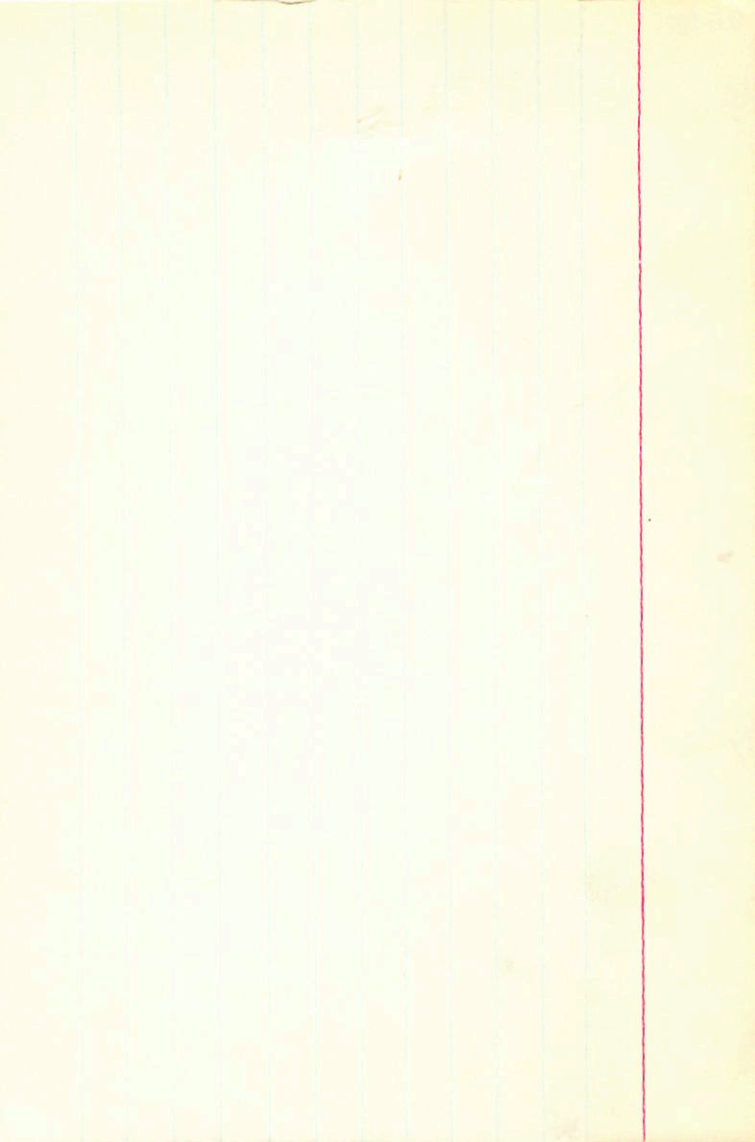
-660 519 544 -4567 -4950

354 854 -335 2740 -7772

4422 +16.0 +1.1

-9517 -34.5 +0.8

-3032 -18.3 -0.5



1996 2 35.2 +37 ~~7~~ df=6 + 8.56 v(3)

W1484

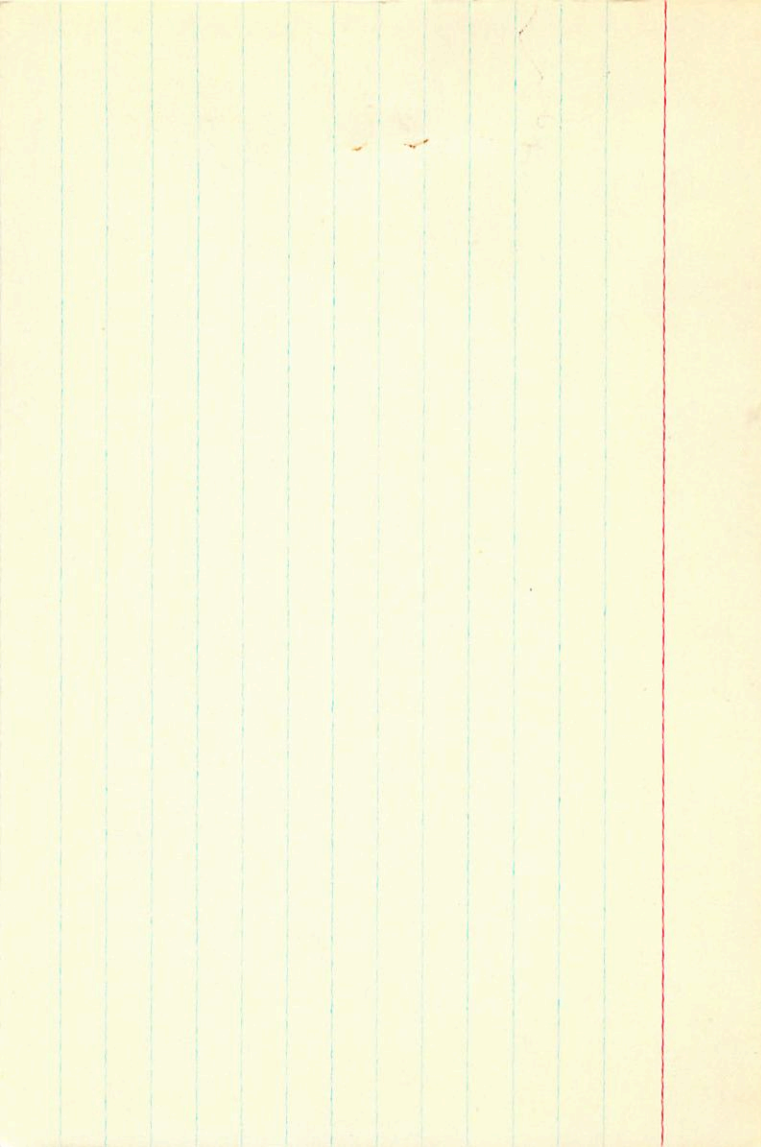
V 42

-0.0033 -0.043
-0.0031 -0.037

-0.0032 -0.040
"0.43

48 ps.

			48					
+639	+020	+769	-1302	-0038	-1340	-6.4	+6.5	0
-660	+525	+534	+1345	-1000	+0345	+1.6	+4.5	+6
+396	+845	-350	-0807	-1605	-2415	-11.6	-3.0	-15



(+8.5)

+14
-17

16327 2 35.2 +37 31 9 Feb 0 +10 120

-0030 -040
-039.6
-0430
-043-012

HR769 6.16 +44 +045 559

CC3159

.306 .170 .529 @SPC 2.645 (4) CT
307

[M] 225 +4

[C] 468 302

11.37 +1.245 +1.17 845

+108
+112 +24

(3.55)

639 019 769

-660 528 534

356 848 -350

-1181 -0038

1220 -1051

-0732 -1688 -2420

+6.5

+4.5

-3.0

+8.56

26

-039-0426C
→

+002954.7 +007#4.5
6-21+100 +78C
6.4 G-8 +2.48
+4.7①

+0400
2 36.0 +03 14

16467
+20400

1493 775HR

3168 0.531 1896.6 +3 13 35.67 1893.5
 $\frac{-755}{.376}$

BSH

0.433
+22
 $\frac{.456}{.456}$

39.07 1934.1
 $\frac{+11}{39.03}$

+ +00186 F103

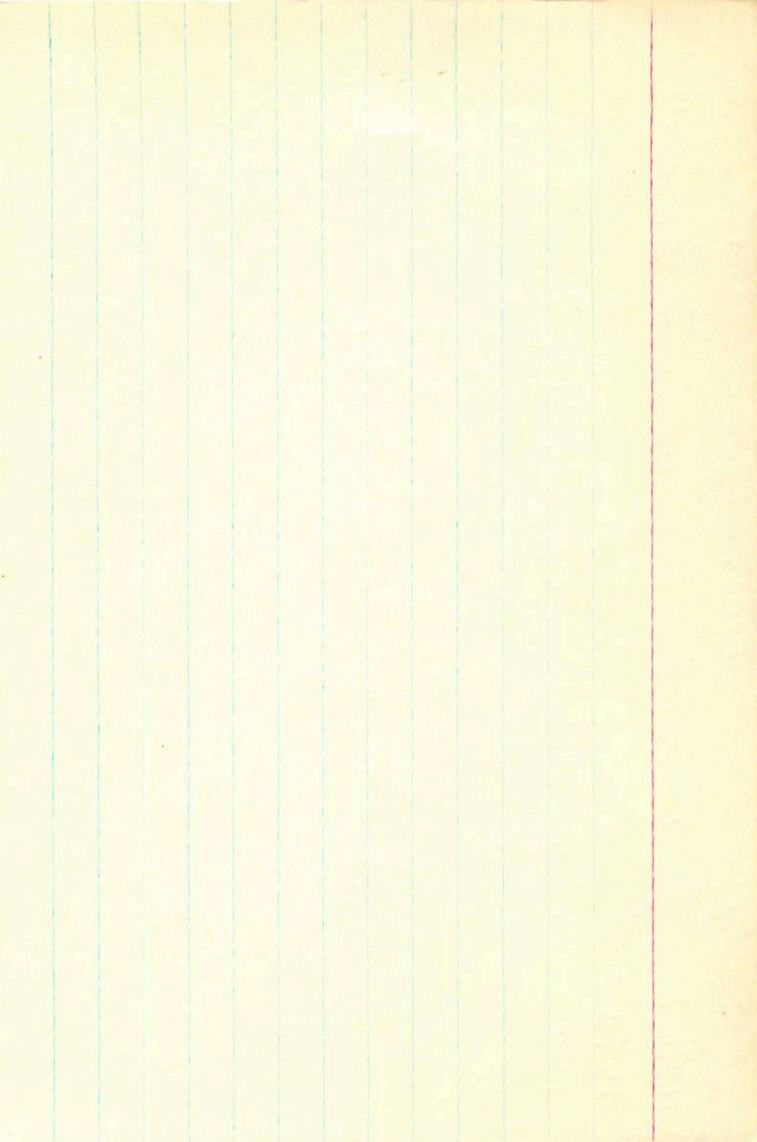
1922.5

0.475
0.12
 $\frac{.595}{.595}$

+00150 000

0279 -003

$\frac{.030}{.030}$
030-000



65871 2 254 47 25 55

HR770

GC3162

6.40 + 42 - 04.9 (B)

[m] 201 120 ✓

[m] 454 465 ✓
597
85

281 150 510 (C) 015. 0511 182. 282
SPC 2655: (4) 2+

118
-8
+00545
246
+00537
80
+14
+0798
512
+1307

475
93
+288
3.555

1881 - 040

+13.07

27

-0003 ± 4.7
+052 ± 4.9

+044

969 +2

23 13

35.5

-0005 +048
+047

16446

1488

3163 28.649 1904.7 -23 18 30.05 1404.6 +052

$\frac{014}{.663}$

6.78 + 1.075 + 0.285

6.82 + 0.345

32.41

18.62, 2.3

8 + 31.70

1933.68

20.778

7.940

28.618

620

+ 20

640

28.645

640

317

594

534

44

16

640

+ 20

660

- 027

30.53

31.32

31.12

31.02

31.39

31.15

36.4

31.8

21.14

21.14

30.1

1933.75 2110

21.14

31.15

28.624

+ 1.25



28



16445.000*

2.000*

35.500*

-23.000*

-13.000*

-0.004*

0.044*

6.300*

181.970

24.300

0.130

0.361

32.407

0.164

-0.201

28

10/11/15

2 85.4 - 5.3 23

(NO)

16743

-58965

6000 3200

Sum

41

272.6

455

2000

6.75 223
kg

(232) 110
(55) 54

+0065 +007
+0053 +051
+0098 +051

22.8

to wind
Rip

548 34

14+

+0095 +052

(AD) 224

HERE 2024

548 34

+0950

4407 6807

1011

110.50

2 37 26.6 - 23

141

194

1541

1011

509 603

1960

9228 828
9228 828

675 218 175 647 2720

5006 4050

146
50

2305

1109 2011 3234

1006 1000
0118 0118

41620

24.889 L9

~~286~~
557

41.302

49.552

29.854

855
238
1870

~~01.447~~ 30.146

~~21~~
125

66.843

250

+006

+0044

0111

0102

+067.271

+047

+047 0.21

+042 2.87

3.66

3.08

30.23

24.576

28.500

1.066

1.64

+051
1.63

24.817

+ 14

886

384

1.17

1.37

0102 +044

0104 +0531

5473

14

5483

A052008 +0020±5.9 -015±4.3 12.2-11
 +0020 -014 12.2
 16490 2 36.2 +14 39 7.3 9 11.3 +1.2 6
 1494

3171 14.815 1901.1 +14 38 43.50 1896.4

$$10^m \begin{array}{r} 0.5 \\ -0.98 \\ \hline 917 \end{array}$$

$$\begin{array}{r} 1.80 \\ \hline 44.30 \end{array}$$

$$\begin{array}{r} 14.770 \\ +19 \\ \hline 789 \end{array}$$

$$\begin{array}{r} 43.76 \\ \hline 48.76 \end{array}$$

$$\begin{array}{r} 1984.60 \\ 57 \end{array}$$

$$\begin{array}{r} 740 \\ \hline 711.7 \end{array}$$

$$\begin{array}{r} 52.455 \\ 22.238 \\ \hline 74.693 \end{array}$$

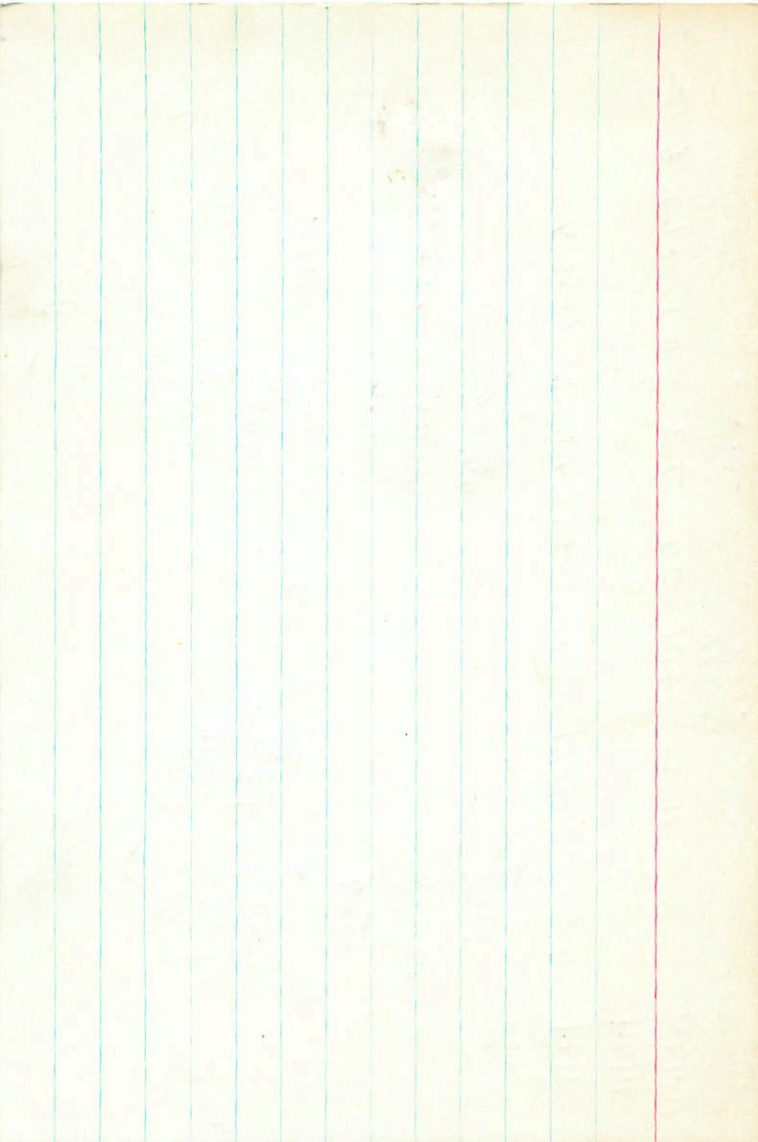
$$\begin{array}{r} 74.693 \\ \hline 711.7 \end{array}$$

$$\begin{array}{r} 32.13.60 \\ 20.95 \\ \hline 4486 \end{array}$$

$$\begin{array}{r} 43.63 \\ +2.27 \\ \hline 45.90 \end{array}$$

$$\begin{array}{r} 32.8 \\ \hline 36.2 \end{array}$$

$$\begin{array}{r} 43.81 \\ \hline 49 \end{array}$$



AD52026

16619 2 323 -00 0Y dG4 +39.98

AD52028

+025 -1580

1499

+022 -156

3203

+0048 ± 2 -156 ± 3 via Link

+0055 ± 10.0 -158 ± 8.7

AD045 172 Carlsberg

067 -172

67

172

205

135.9

29

0.684

DO 60 1180 2 37.6 +40 20 +28.0 1

+26.50

+590529

11806 0.0 +0.20

MV +1.7

+0032 -009 Y
- 1 + 2

+0028 -007 →

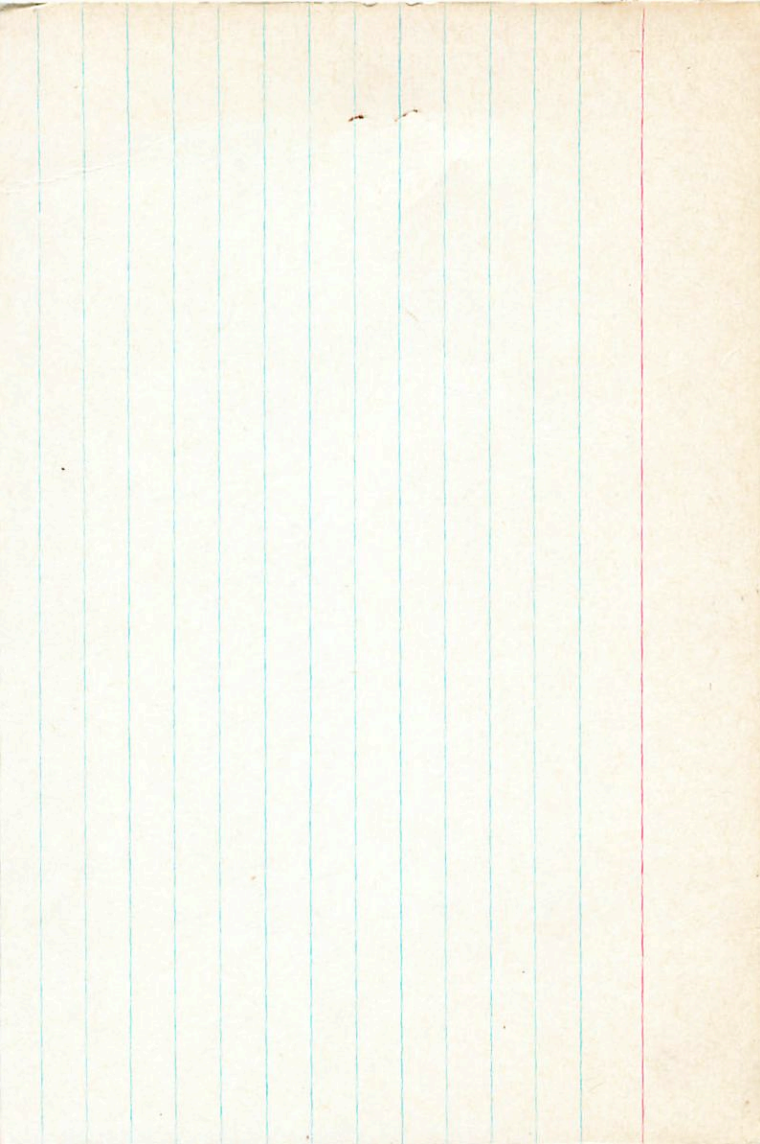
632 -287 718
660 284 695
404 914 015

70617 +0095
-0644 -0004
70364 -0303

+0712 +02 +34
-0738 +45 +5
+0091 +18 +2

+ 20.1
+ 19.5
+ 0.4

300



16620

HR781

GC3199

GC3199

[m] 259 + 6

[c] 391 / 108

+2.7

2.15

2.90

267 159 463
59 136 569

237.2 = 12.06

2654

F510-5

km20

484 + 45 = 02

5.4
2.9

1.50 2.9
2.9 2.9

1366 . 193 . 464 2.660

348

2110

+17.5

559
2454
26

-24 -10 ±10
+10000 -2345 130

60577 -62333
487 -319
1461 2069

+1432

1140-237

UNIVERSITY

~~144
177~~

~~3
10~~

~~4
11~~

~~1
12~~

~~1
13~~

~~1
14~~

~~1
15~~

~~2
16~~

~~3
17~~

~~4
18~~

~~5
19~~

~~6
20~~

~~7
21~~

~~8
22~~

~~9
23~~

1

+410508

2

32.6

+42

03

~~9~~

d110

W1503

9.2

7.34 - .10

485

-100

2.8

+248

7.

635 773 670 242 +36 -.10 +24.5 -067 +17 -351

~~230~~ 043 275 -052 -~~840~~ 1.521 +15.4 +14 +12

-3 +42 +10 05

+42 -11 0

0 +37 +11

06

AD50233

2 378 +26 57

data:

H1782

+0051=21 -028±1.7
+0046
+0049
+0043

96.2 50.70
96.2 16.1
96.2 52.37

+0047-028
-0259

6608 50.61
-16
50.49

0629
[063 024]

Y518
8
474

9
471

71
-24 y2
10

Y521
12
523

34.59 50.43
+1
50.56

-025
-031
-025

30

R.A. : 2.980
DEC. : 28.850
R.A. : 71.000
DEC. : -29.000
STANCE : 4.250
MODULUS : 71
VEL. : 17.000

d1 (U) : 0.839
d2 (U) : 0.140
d3 (U) : 0.755
dV : 189.056
U : 24.299

d1 (V) : -0.890
d2 (V) : 0.819
d3 (V) : 0.452
dV : -383.359
V : -13.833

d1 (W)

R.A. : 2.600
DEC. : 26.850
l. R.A. : 71.000
l. DEC. : -29.000
STANCE : 4.250
MODULUS : 71
VEL. : 17.000

q1 (U) : 0.636
q2 (U) : 0.160
q3 (U) : 0.755
dU : 169.026
U : 24.799

q1 (V) : -0.660
q2 (V) : 0.619
q3 (V) : 0.425
dV : -283.329
V : -12.832

q1 (W) :

0-26

789 2 37.9 -43 06

16754

137

-30

339

+186

474 +0.06 +0.06 C

+033 +186 +955 -2.885 Crawl(S)

$\frac{372}{13}$

$\frac{27}{463}$

$\frac{179}{1393}$

+100-030

new

0290-022

0092-029

1350

1311

-20 C

+14 4/5th var

+17.

54

152

948

1332

1300

32

a = +039 ✓

n = +012 ✓

+1.6

3.15

1.6

+

6

+096

-025

1090

+1.95

0210

3.39

+0081

-028

865

9307

3657

7834

6715

1040

11.95

0210

3.39

+0088#35 -029#31

53.597 50
+0087-036
+0087-021 5.87 993

$\frac{396}{181}$

+0084-030

$\frac{1227}{1865}$

53478
 $-\frac{18}{410}$
35.26

20.24
 $+\frac{21}{20.08}$

53618
 $-\frac{116}{834}$

20.42
 $-\frac{504}{504}$ w50 -032

52734
 $-\frac{11}{11}$ 6982 2047

$\frac{217}{2079}$

3

782

2 37.8 + 26 51

16428

3215

A052033

29"

new?

only

medium light

in 2?

5 + 100 51 - 0228
1500 + 100 50 - 0228
1000 + 100 50 - 0228
1000 + 100 50 - 0228

A 5.30 + 0.07 + 0.10 545

Sta ?



B 5.10 + 0.04 + 5.15 3

+0057
-028

+0045
+0094
-0235
-0215

46364 562
50.70 924

$\frac{.087}{229}$
54.231

48.417 6009 80.68

~~9~~
 $\frac{13}{508}$

68.28

50.00

50.41

48.436
 $\frac{444}{8}$

+0047-0235
-0214

0624

+063-028

16754

HA789

2 32.9 -48 06

+200

+14 45A
VOR

GL3217

4.74 +0.06 (1.55) legs

~~4.83~~ 0.00 +057 -02466

+0088 ±3.5 -024 ±3.1

53.577 1405.0

+0082

19.87 1899.3

396
181

+0085 -030

1.22

+3
+0091 -027

18.65

106.2 -26.2

53.475

-15

460

20.24 1984.24

+21

20.08

FRS

Shops

636 772 ✓ -683 730 +097-024 +20, -016 +14 -055 ✓

-062 010 075 -012 -235 ✓ 403 +146 +11 +9

015

-5 +36 +8

$\boxed{-35 -12 -6}$

-1 +29 +10

02

$\boxed{+31 -6 +1}$

G 76-21

2 38.2 +9 33

+90352

Rowal?

+0235	+0124	T
0	0	T

10.14 + 45 - 25

+348	+016
------	------

→

-68.3

→

16708 2 38.2 +02 41 8965 +655382(3)

+20412 3.8

W1510

+20412

7.09 + 1.015 + 0.715 (1)

6.67 + 0.34 (3)

630
583 (6.25)

+60 -9 -36 .010

1950
June

+0035 +015

+05847 +00746

+0033

+0494

+057 +012

637 771 047 559 +058 +007 465.3 0 +033
-037 0 045 0 -17.5 213 +65.3 +50 +42

+41 +52 +2 022

+51 -1 -43

+32 +58 +4 01

+60 -9 -36

+15 +83 +7 025

+25 +72 +5 009

+67 -17 -31



+11-9

4016851 2 38.9 41 31 766 +16.2 2.56 MSII

G63242

→ M

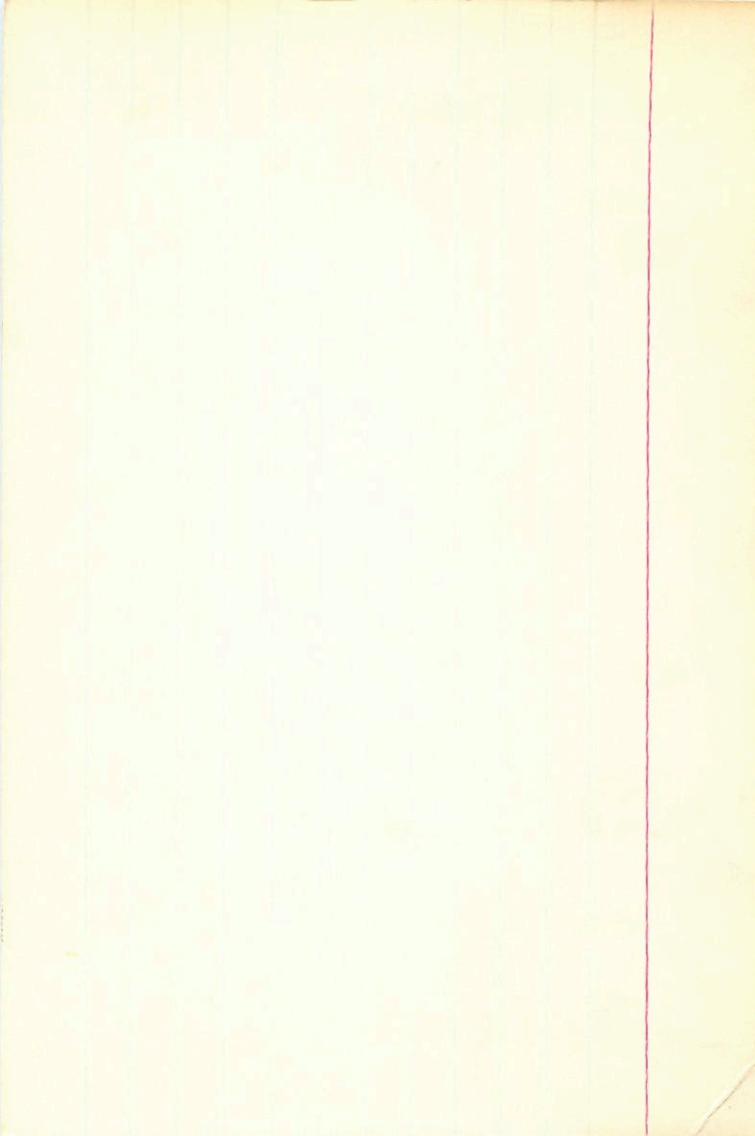
+0006 ± 1.13 +003 ± 9.5

55.964 190.12

46.83 1998.9

+0011 +0006

Steff



16920 2 39.1 -54 46 5.3 1.2 -1.1 6

1519

3246
5400

230

484

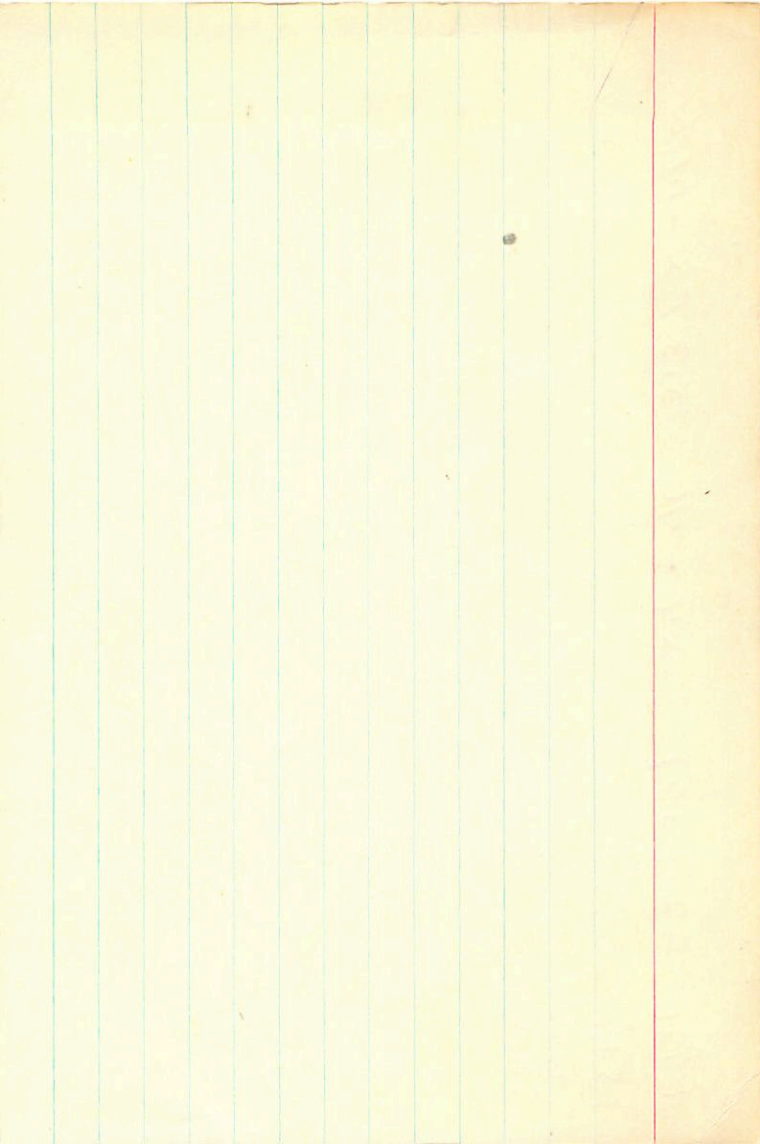
759 152 - 536 2076

7340

6.237

56.34

48.40



16825

2 39.2 -14 46 dF7

HR796

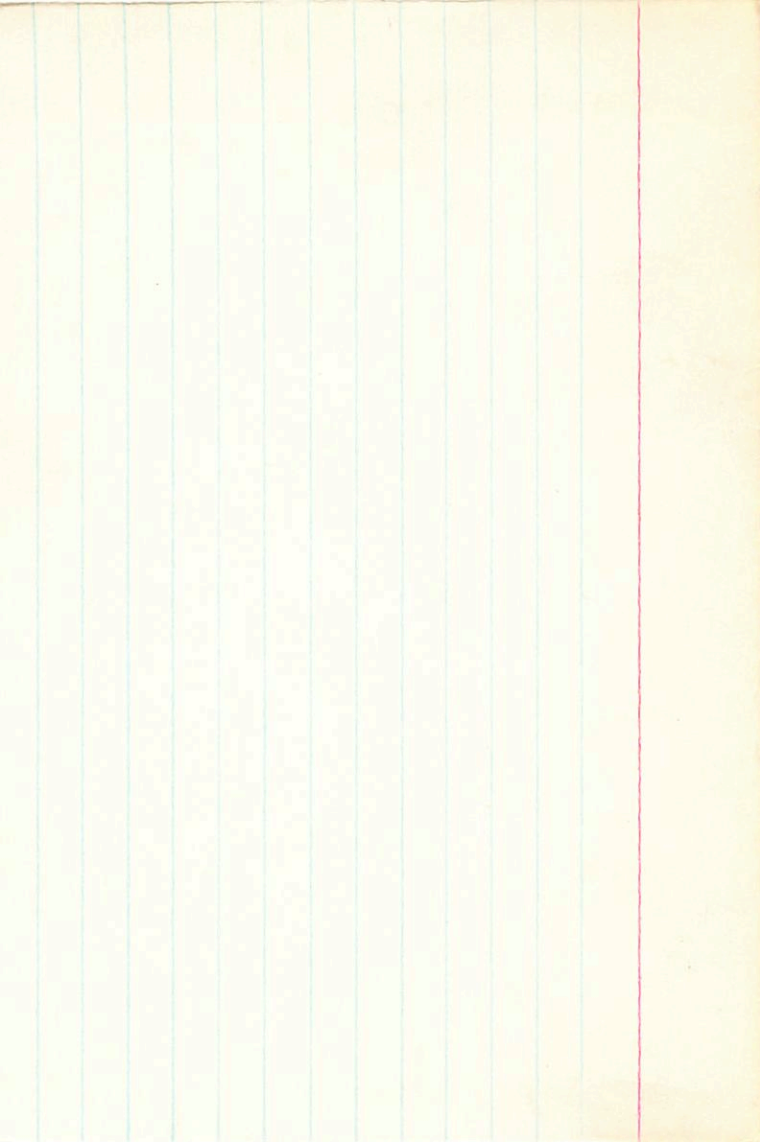
GL3247

5.97 + 0.435 + 0.005 2595

[cm] 219 +2

[G] 430 +20

.279 .169 .486 2.662 (2) 23,49
562
506



HR787 2 35.5 +10 32 A2P +6.17

6.30 +0.06 +0.06 -0.25 -0.19 GC

16861
1525

A2E -0.17 GC+

643 766 152 553 -025-017 +6.1 003 +1.1 -051

016 002, 019 -002 055 -051 +6.0 +14.6 +3.8 8

+15 -6 -9

$\boxed{-8 +2 -16}$

+18.5 -9.7 -12.4 16

$\boxed{\begin{matrix} +10 +3 -20 \\ -12.7 +1.1 -15.5 \end{matrix}}$

~~+14.8 -7.8 -10.5~~ 8

+21.6 -12.4 -15.1

-16.1 +1.7 -23.9

55 cut

16861 2 39.8 +10 32 6.3 A2p +6.18

1525 6.27 +07 +11 A2E

3260 47.152 1900.1 +10 31 46.76 1897.0

+055
237

1.01
47.77

7006-024 boundary

1934.1

47.176
+19

47.26

10129

195

624231

26.418

21.87

1927.44

20.738

26.05

33.8

47.156

47.95

0.29

36.5

196
19206

46.82

1934.75

47.175

195

+17

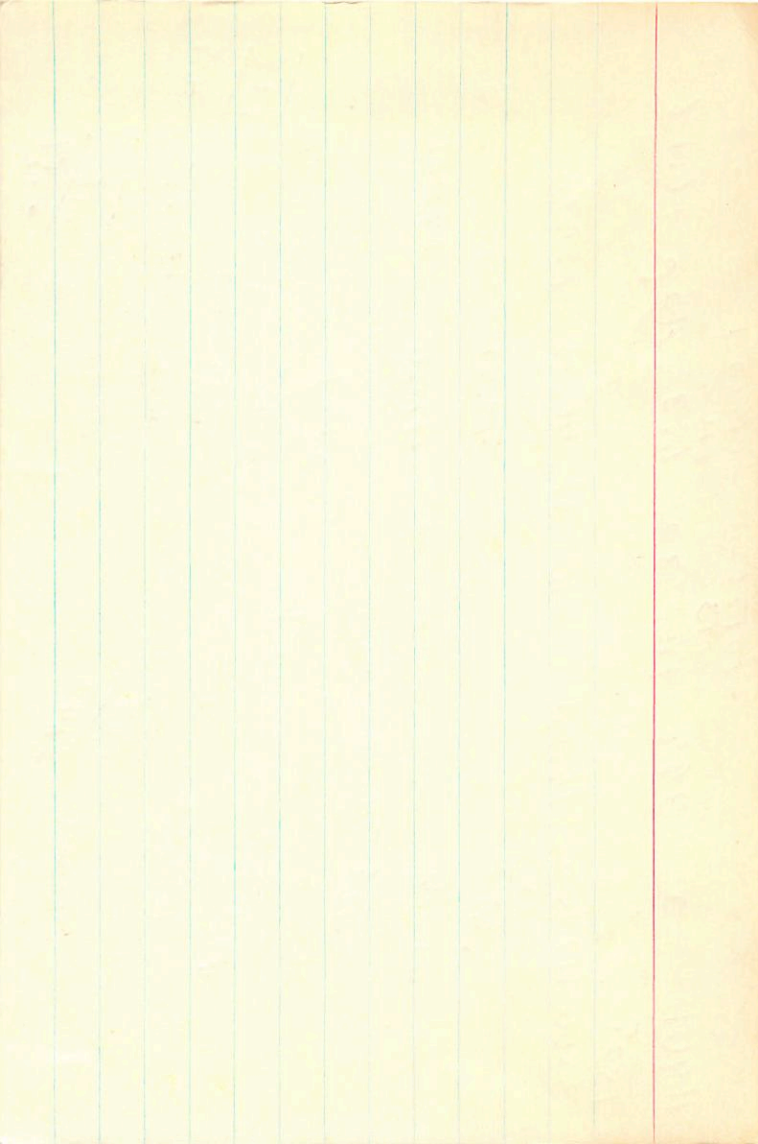
47.18

152

042

46.99

0.59



+0083 ± 17.0

-107 ± 13.0

16933

2

41.2

+46

38

FY

+24.78

3248

6.9

~~+076~~

1542

+080 -096 Gms

10.673

1913.2

+46

37

54.88

911.9

8884

9269

4686

-3752

647 763 727 687 +050 -096 +24.7 -070 H8 -315

-052 045 061 -053 050i +17.0 +13 +11

+13+45-3015

[+40-16-19]

+0032±6-1 +017 56.5

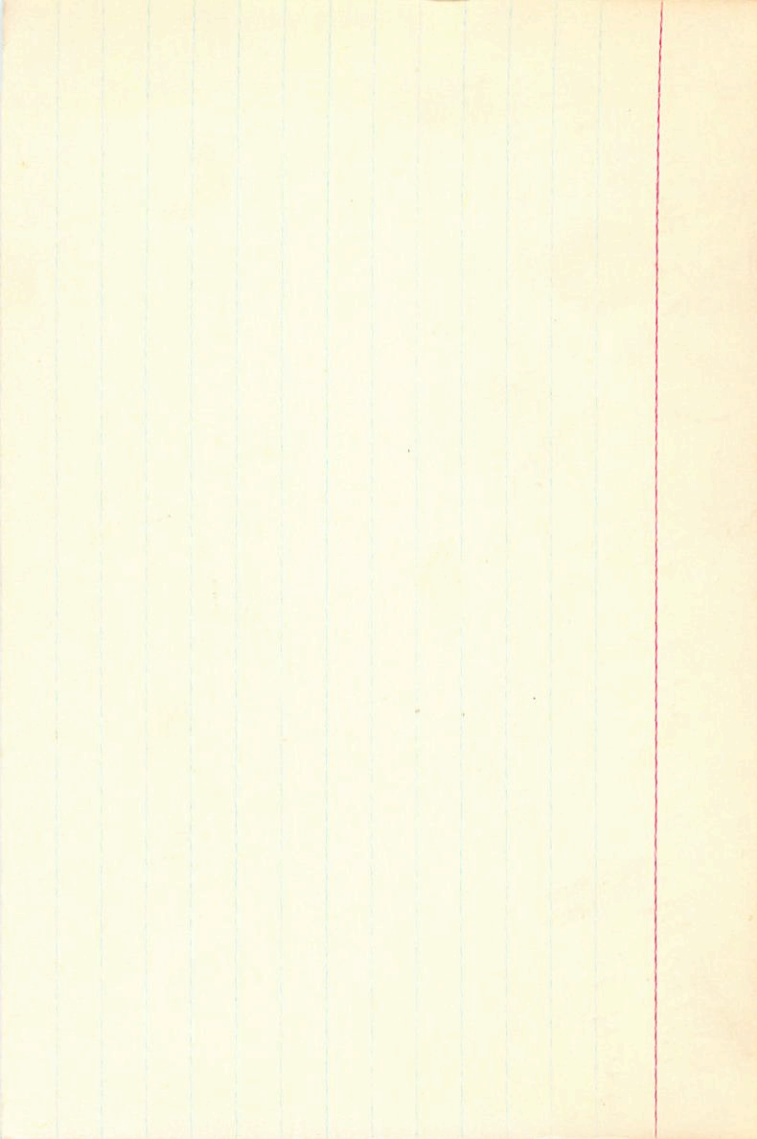
TW Cas 2 41.7 +65 31 8.3 89+10 -2306

1547

-19.4 Orbit

2 41 44.405 1904.0 +63 30 59.95 19046

+009 -017 GP



17084

2 4/4

-35 05

+34

65/8 + 61

WAFOR
-38246

74

70064 - old center

65

081-060

11911 Orbit

6310 9809 } 0911
5086 } -6481
55-1945 }
55 15 11

17155

2 41.8 -46 39

34.7 ± 1.8 C, (4)

G63302

7559

9.04 +1.05 125 V

-460790

-42 -60 -11 .038

-464 -71 +29 .01

+060 -502 ^{GC}

+067 -516 ^{GC}
_{mean}

13 ± 13 C (6)

~~045 261 -727 687 +060 -502 +34.7 -546~~ ²³⁴

648 761 -727 697 +060 -502 +34.7 365 -25 -1.635

-039 -237 046 278 -1.502 -905 +23.6 +189 +15

-132 -75 = 156 01

-164 -171 +35

2nd card

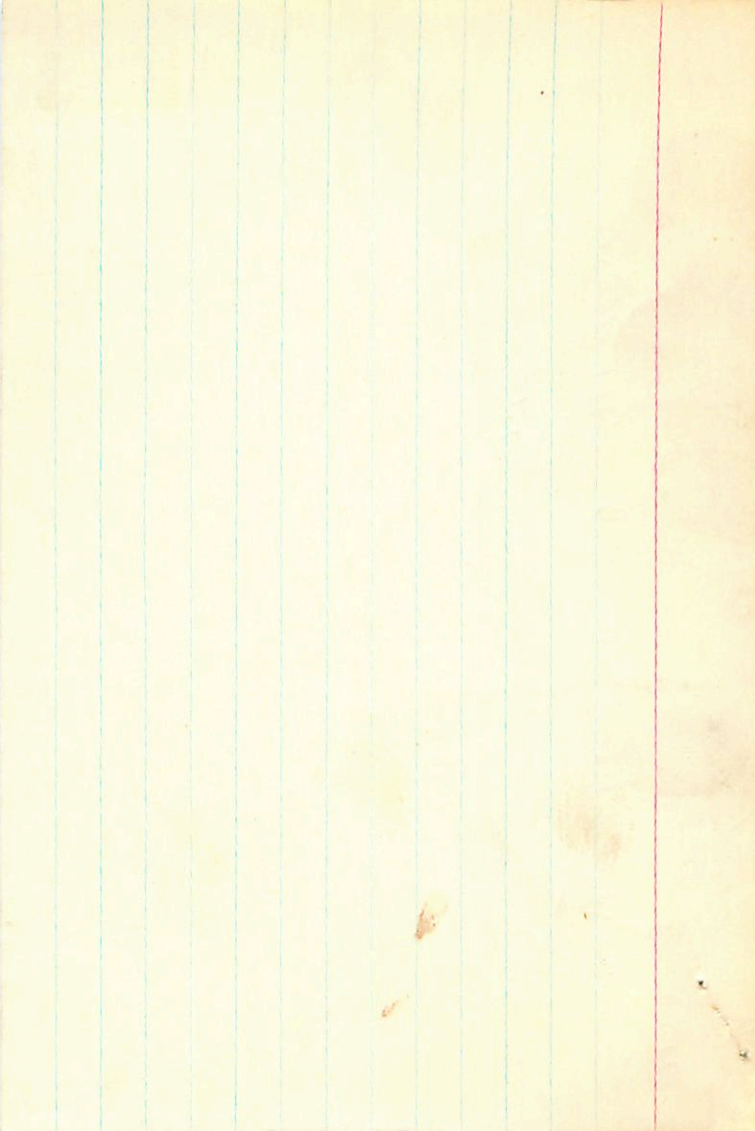
+0058 ± 12.2 -502 ± 15.0

17155

46,013 1404.2 -46 39 24.81 1405.5

-266
45,747

+22.34
7.47



ST For 2 42.2 -29 25 8.7-10.2

277d

" 2045 -0034 +0009 +20
274(2)

clomp

618	724	260	-1544	+1338	-0206
-642	687	296	+1412	+1270	2682
422	015	-906	-6900	+8028	-0872

p = +24

669

ST For -8.7 +1.65 +1.22 -485

4017166 6.3 +1.70 9.55

+03

437

-650

537

RFB