

DRUG
HC5005

13 13.9 -1 08

-1223③

200 166 824 2720 Fluor

199 162 809 2727

-0020 -027 N30

-0021 -0275

-0315

-030 -023

G.D

~~-01329~~ -0352 36



59



11

1873

2-11

11

11

11

11



15.200
 - 1.100
 - 30.000
 - 22.000
 6.000
 158 49
 0.000

5-4

131.83

- 0.869
 0.477
 - 0.343
 03.859
 0.394

+8

0.881
 0.738
 - 0.344
 - 160.011
 - 25.835

-21

- 0.889
 0.477
 0.674
 - 09.355
 - 0.230



-5

+252225

+0048 ± 83
+0067

-352 ± 6.0
-367

44

115339

13 14.0 +25 00

8.4 d68 +1678

17966

G8E ± 246 ± 2.650

7891

57.238 1911.8 +28 0

11.24 1907.2 20.6

-183
0.53

+15.07
2637

G-144-48

57.152

18.76 1928.372

107

18.60

174

57.166
198
117

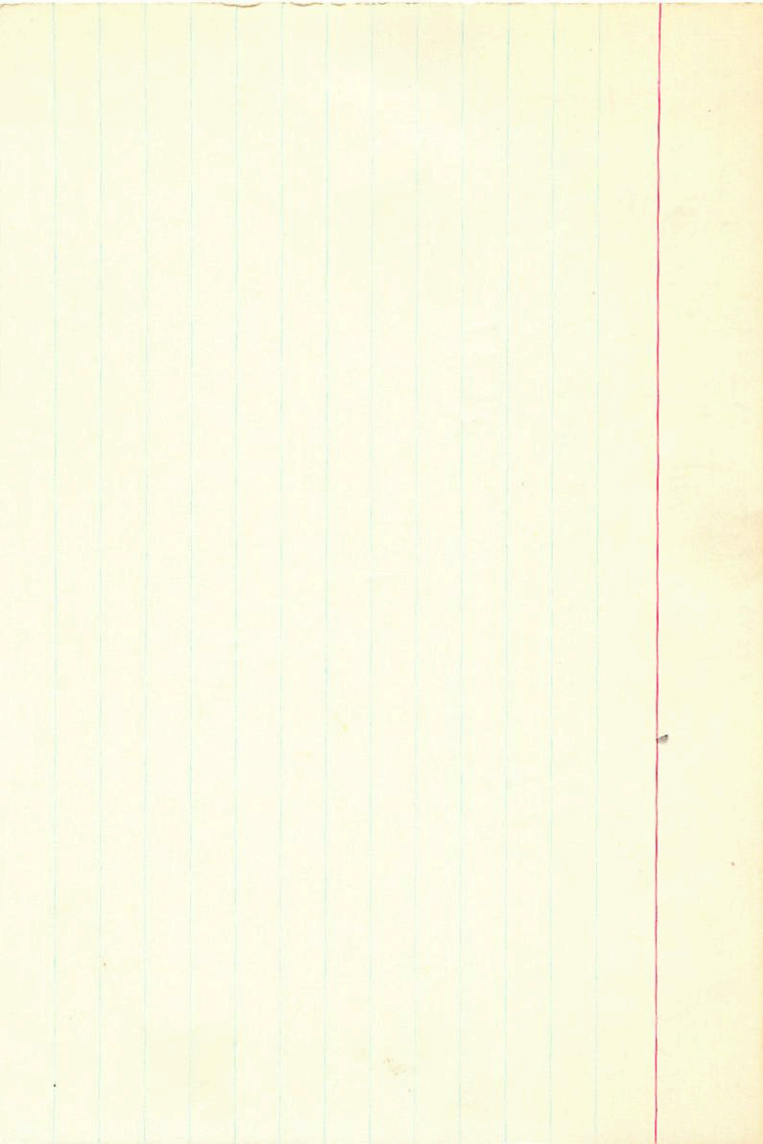
18.1 1930.1 5842

172
83
117

-24
17.86

29.22
22.0

1646
18.23
8.08



5006

115310

13

14.1

-31

15

5.4

KL

+12.98

17968

7892

²²

+0032 -052 N30

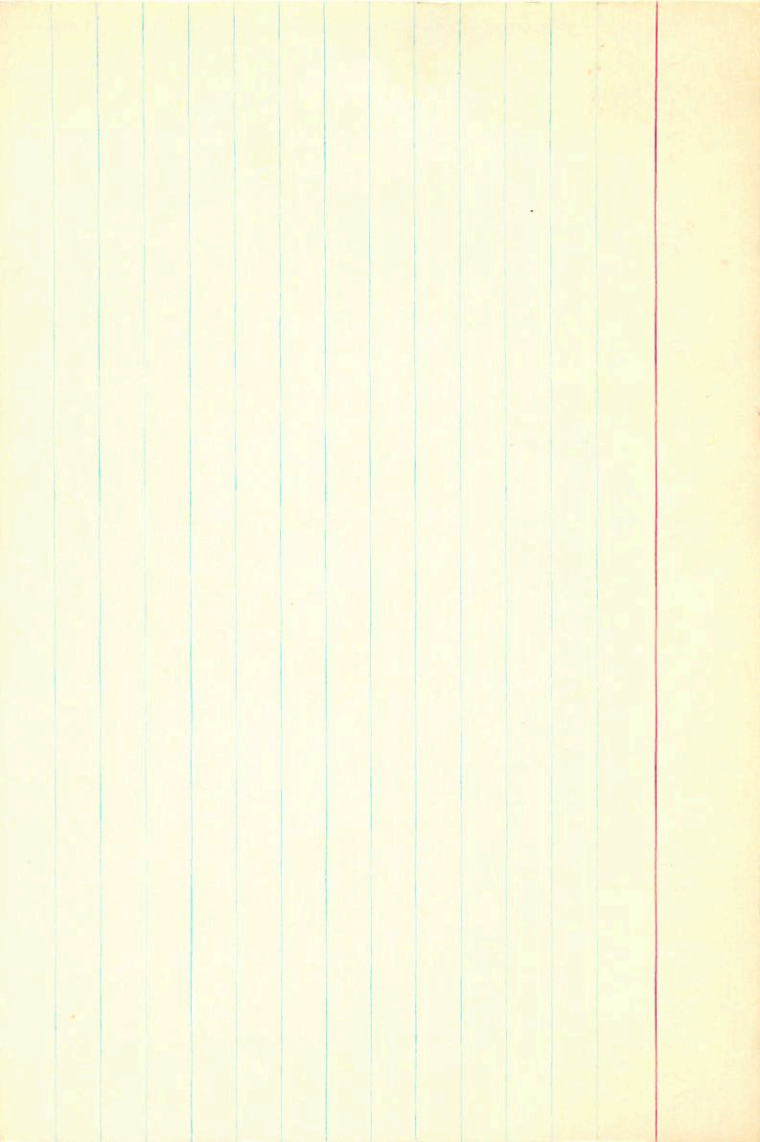
+0027 32.6 -049 2.566 -9110

+800 (1)

Van ~~book~~ →

Wamen

+2.72



SB(35)
115427 13 14.6 -12 16 8-1 F4T₂ -14d 3L

-1103476

7897

$$\begin{array}{r} -102 \pm 10 \\ \hline 2 \\ -102 \end{array} \quad \begin{array}{r} -045 \pm 11 \\ -9 \\ \hline -054 \end{array} \quad \begin{array}{l} 4 \\ \\ \\ \end{array}$$

8845

13 14.8

+ 16

Jonckheere

1910.40	147.8	3.2	2 P ₁
1915.66	151.0	3.13	3 F
1920.30	147.3	3.50	3 F ₀₄
1946.87	146.8	3.66	2.5

115478

17988

7898

13

$\frac{+0005}{14.8}$

+13

$\frac{+0004}{+031}$

$\frac{+027}{56}$

5.4 gms -25.5a

47.195 1899.9 +13 56 17.64 1898.8

$\frac{-020}{175}$

$\frac{-1.59}{16.05}$

47.185
 $\frac{19}{204}$

389

$\frac{194}{+009}$

37.4

17.00 1934.5

$\frac{-10}{16.90}$

17.32 - 1940.12

47.173
 $\frac{+8}{185}$

$\frac{+009}{+009}$

$\frac{-4}{17.28}$

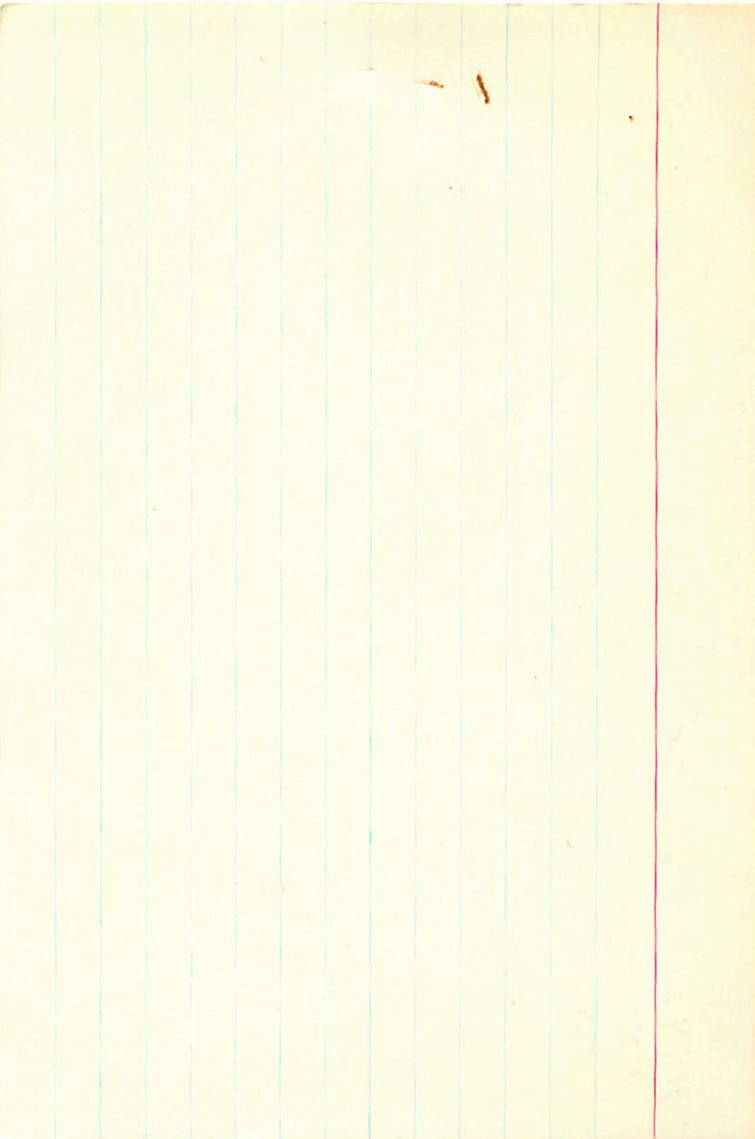
-462

37.3

$\frac{17.09}{+1.04}$

+1.04

38.5



1946m 113 14 139 200 861 2833

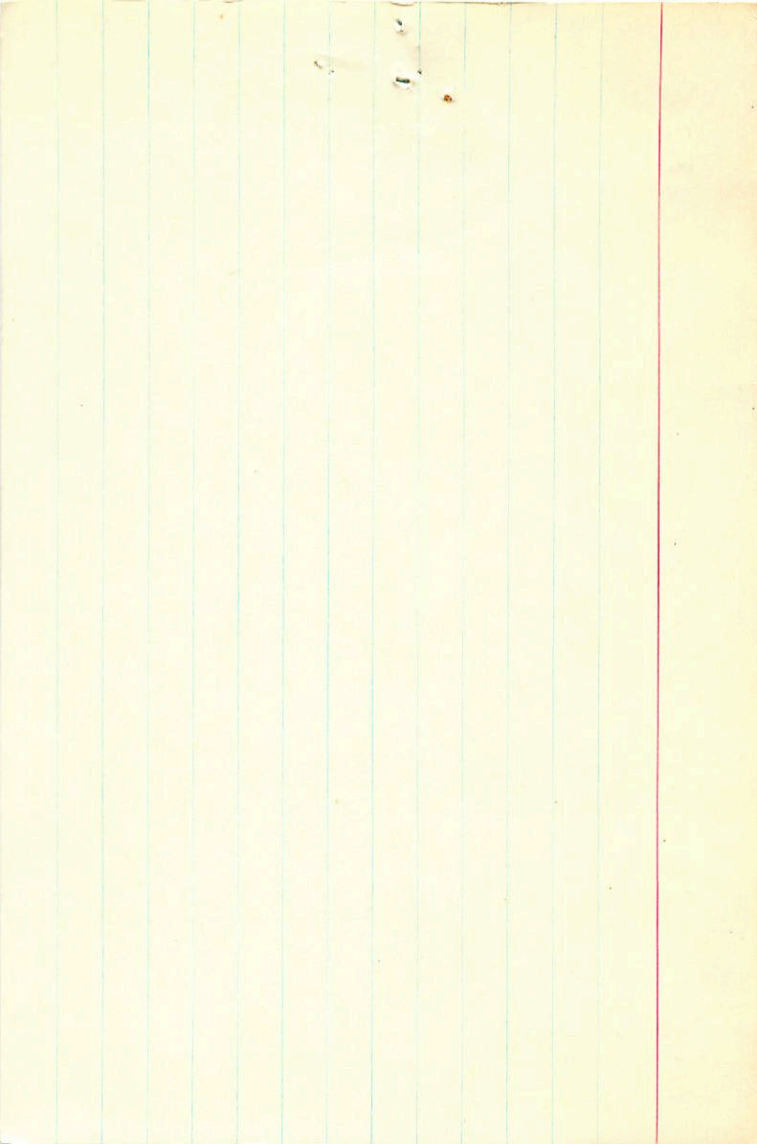
115271 13 13.3 +41 07 5.7 ASM -18.38

17953 7886 6442 5098 38 +008 N30 9158-9995 1210
5004 -5096 ±2.3 +012 ±1.8 66 → N30 9017 0705

ASL 4099W +026 9917 2180-2182 4155
-01013 +0164 W35 5.5 281902 81.5
-01014 +0176 4194 2018 6006120
h.w. 4155 1517 1517
2182 2182 2182
DIRE DIRE DIRE

0210 764 4582 446 696 2838

7117 1510 22 114 114
-113 +022
+1490 4170
-183



5004 18 12.3 +41 07 A7 E

115271

17453

5.60

109 209 544 ③ 5PO 2.85618

+6 +5

+20 +30

+010

+0105

-60964
-80964
+112

+13
+5

+22
-1053

103+015

-18.36

109 +224 922 2.85618

MV = +2.15

m-M 3.45

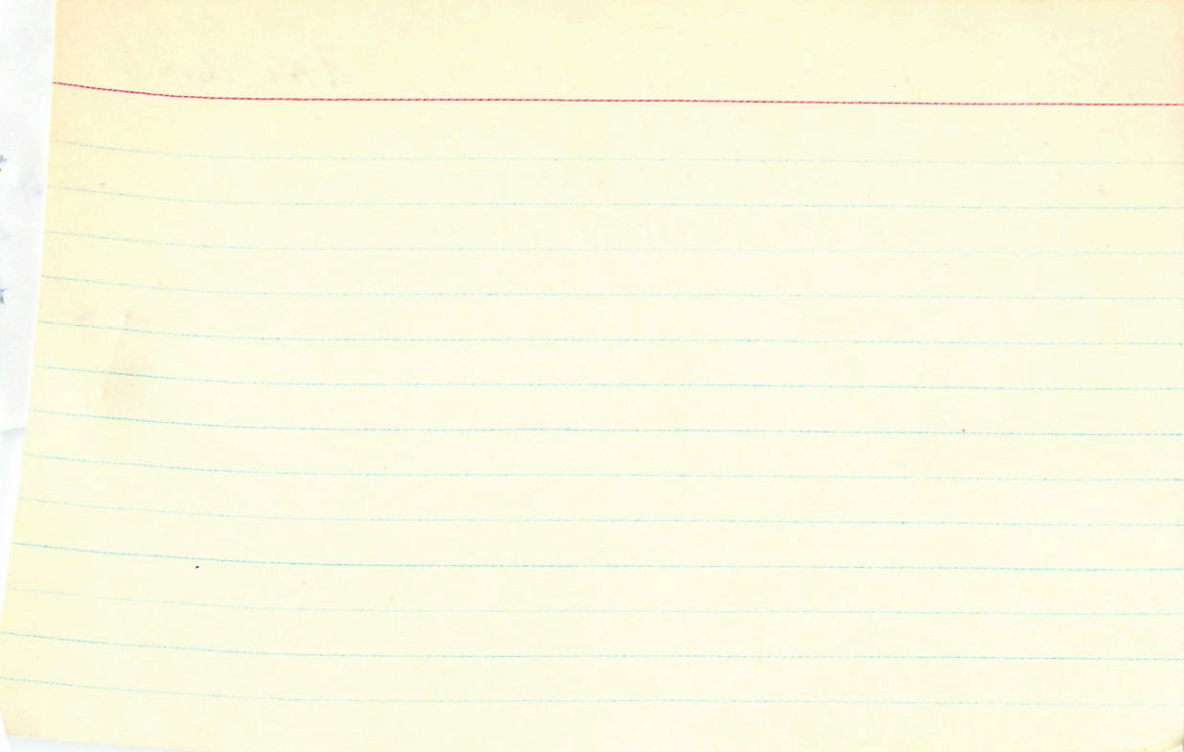
Book 51

09

1052584

2665
6980
5584

754
136



936415 +03
22

-22100 +40

+2402559

18 15.1

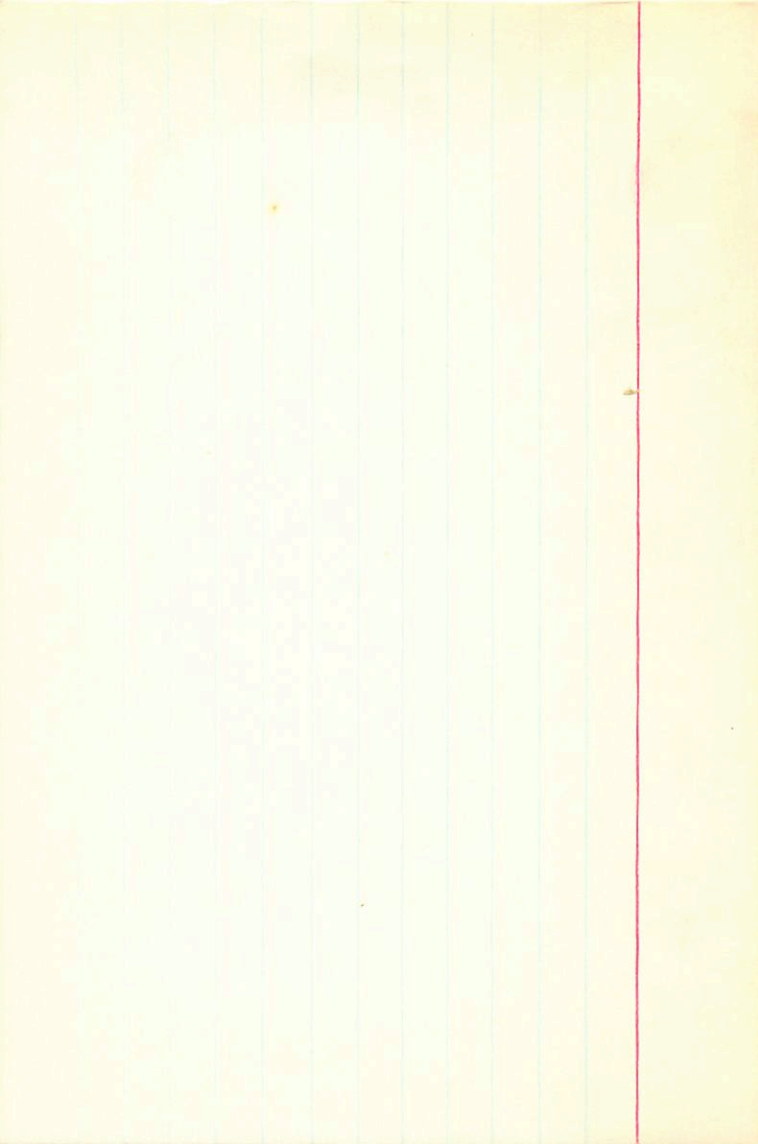
+23 54

000 +012 Newy

115556

-5

000 +007 00
+4



O-Vari 13 15.1 405 44 5 M 2 -26.9 a

17995 / 11552

HRSD 15 17995

7902

4.80 + 1.71 cup

52
-6005 + 011 N30

-6007 17.1 + 015 ± 1.8 GC → N30

(B) 17995
-010 + 010 GC
-007 + 011 N30
-007 + 013 P

-005 + 011

15539 13 15.2 11402 964 -8.46 -106(3)

w(11.2)

5060 + 002 60+
-60595 + 005
-0866 8.4
[-0844009] 4.98

-096 -0036
-082 0000+
-095 + 0107
-092 230
-092 +0.002

~~-322-9-17 242 570 -092 +002 -8.4 0-2 009~~

-030 0 087 0 $-1\sqrt{2}$ $4\sqrt{2}$ -8.1 +8 +3

-6 +44 -1

+38-23-2

01

19

115539.000*

13.000*

15.200*

14.000*

2.000*

-0.084*

0.009*

6-4

4.950*

191

97.724

-8.400

0.344

-0.217

67

35.435

-0.199

-0.131

-37

-18.328

61

0.050

0.967

-3.215

115539

G-17497

W7903

A1402543

13 15.2 +14.02-

7.21 +0.56 +0.62 R 6.811-12

864 -8.46w(3)

+77 -49 +2 .005

+65 -42 +2 .006

+71 -45 +2

$$\begin{array}{r}
 -09657 -00354 \\
 -09558 +01056 \\
 \hline
 -096 +007
 \end{array}$$

$$\begin{array}{r}
 G-6 + -093 -0.004 \\
 G-50
 \end{array}$$

35.2

Cal. - C.C

ΔX ΔS

~~$+5$~~ " -0.10

$+5$
7.019

P.E P.E

.15 .15

02.7 99.0

~~Reverse~~

32.5 1372-2

$P_0 = 7.4$

$$\frac{\Delta M_s}{25} =$$

$$\frac{7.4 \cdot 0.019}{11.4 \left(\frac{9}{4.32} + 3(5) - 8(25.4) \right)}$$

=

$$\frac{7.4 \cdot 0.019}{2454} = \frac{.1406}{2454} = .000057$$

$$\Delta M_s = .00014$$

$$\Delta S M_s =$$

$$\frac{2.4 \times 0.10}{2454} = -.0003$$

$$\Delta M_s = -.00075$$

8.22 + 31 + 09
2.1

- 22-4

115606 · 13 15.6 + 13 16 - 034 - 007 Ring

+ 1302653

- 034 - 012 ac
+ 4

+35.2439

FB

14.2 +35 03

47

13 18 35.0

+34 33.12

9867 064

23 208 1000 050

960

616

Does 1008
9001

+48 -29

10.8 110

+516 278 915+

5919

10310

9297

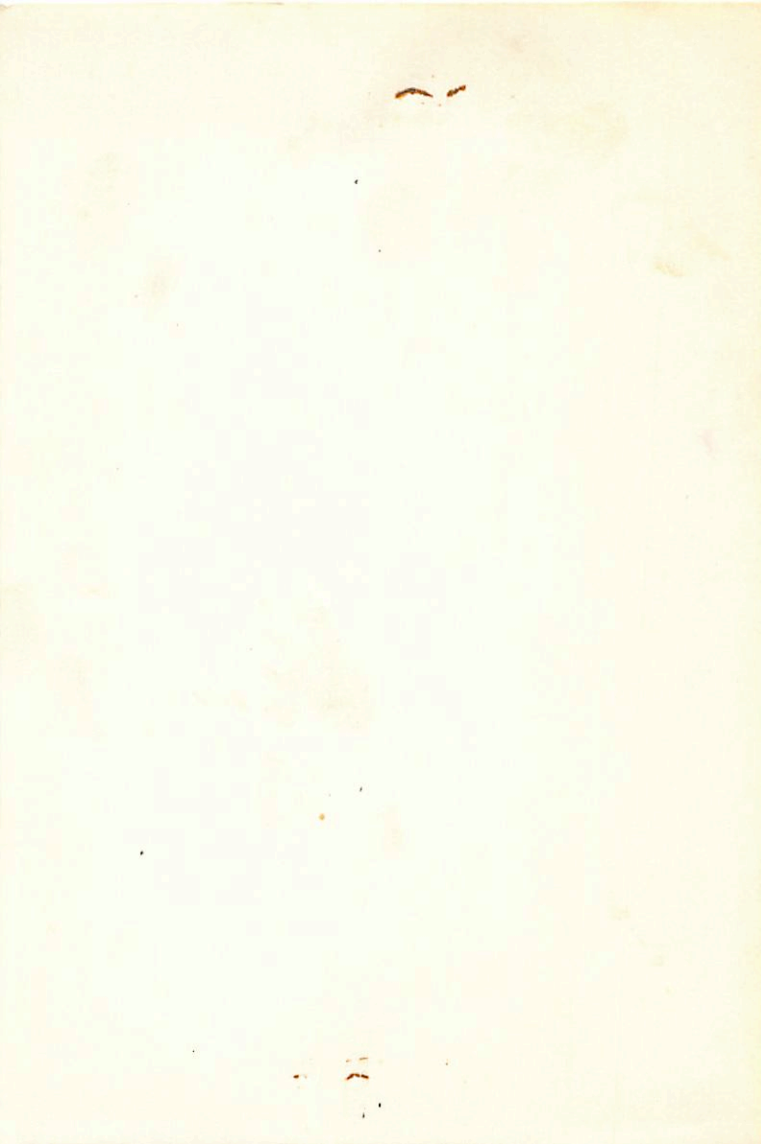
8582

635

5583

9396

1031



5022

13 16.1

+34

21

5.80 gms

+032 -005 GL
0 +3
5002

-20.162

62



5022, 000*

13, 000*

16, 100*

34, 000*

21, 000*

0, 032*

0, 002*

7-81 1-25 106

0.0

+2702234

18^{2.5} 16.2

+26 38 8.2

115708

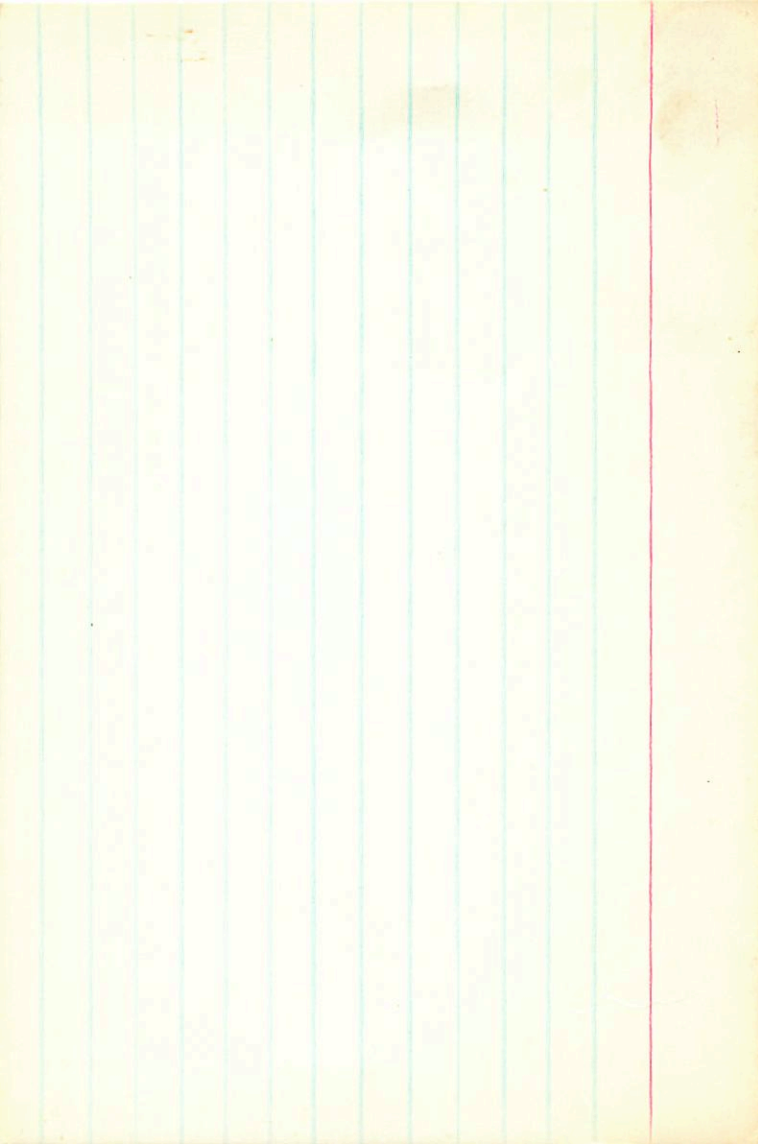
+7.9 (4)

- 006 + 004

- 2 - 2

- 008 + 002 60

+4



115585

13 16.3 -70 36

6.6 \bar{V}

0.4

Net yield

$$7.42 + 0.75 + 0.37 \text{ (2)}$$

$$6.91 + 0.27 \text{ (3)}$$

M(I) 11/100

+8.9

6.43

$\frac{14.33}{1.73}$

0.45

$$\Delta(B-V) +0.4$$

+0.4

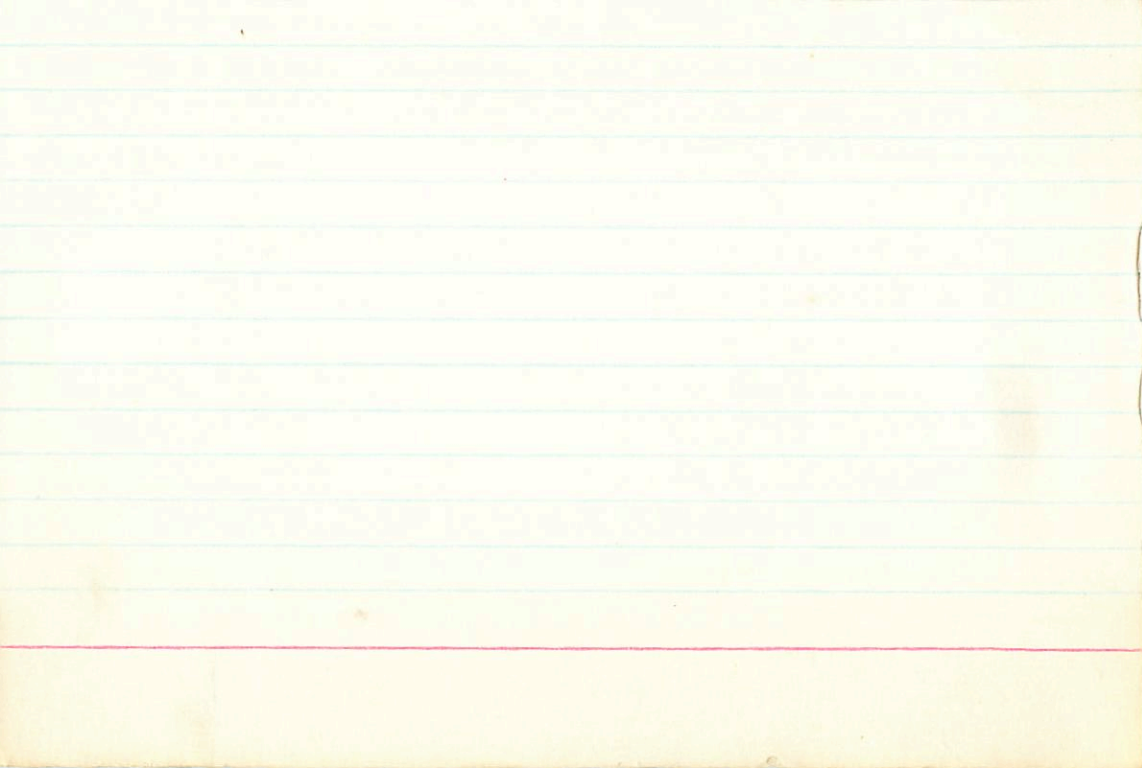
$$\Delta(U-B) +0.65$$

μ ν w

+13.6 -49.4 -3.0

+15 -11 0

+132.6 -0.342 -0.026



941 13 16.3 -70 36 +32.6 (4) 65

115585

18014 66

7.42 +03
578 +75
164 785 (1.84) 6612-E

-0740 ± 9.5 -035 ± 8.0

16.449 1901.1 -0808
3.863
1.53
31.57 1897.7

20.862
-0799 -034
+ 12 + 6
29.94

31.248
46.890
36.58 1929.25
9485

18.130
46.469 -2.295 " 352
31.43
31.454
70
30.704
-1.04

5.567

115286

13 16.5 +1.7 44

1646 ③

1.0

150561

8.98+12.85+12.7 ②
5.45+10.47 ②

+64.6 Druffin

000 -034 1/4

807

9.4

3 -0002 -037 Bendon PCC

1.7

-0012 -034 GC

-001 -044 GC

-001 -039 GC mm
-001 F#4

+001 -032 +00N

1.7

1.7

63



23

115736.000*

13.000*

16.500*

14.000*

44.000*

0.001*

-0.032*

9.100*

660.693

64.600

-0.088

-0.215

-72.153

-0.119

-0.118

-86.065

-0.034

0.969

40.159

63

-22°3557

13 14.5

-22

46

dico

-58.18(x3)

W 7914

10.2

43048

-37 -04

-310±10 -046±5 ^{Cont}_{Red}

+99 -22 -33 .020

30M(5)

3(14)

14510

-358 522-

115810 13 16.8 735 23 6.0 A5 -2106

-21①

18023

²⁶

-0028 ²¹ +014 N80

-0024 ± 3.9 +008 ± 3.3 GCNFD

-079.8 +019.2 FRS ②

1497

V CVM

1039-01

13 17.3 +45 47

-26

1037-101 handby

-0042 -021 6 40

490 MA 845

1036-014 14

+ 2
0040
-022

-97
+29

-042 -022

300

-801 589 103

+1595 -0614

2973
+0981

-0.2

594 744 316

-1150 -0776

5896
-1566

-0.6

-110 -314 943

+0219 +0327

6304
+0544

+2.0

124 1292
-59.6
+18.7

RW 300

~~14~~

~~35.7~~

+31 47

-112 2W

-0015 +002

5024

13 17.4

-59 32

~~10~~ (8)

~~1005~~ ±73

~~1036~~ ±5.6

22.403 717

~~1050~~

89.11 2.2

214
23.119

172
39
37.

42651 (28.16)

44.17

35.148

5395

22.799
235
17

3812

20.03
21
016

58
37.54
14
93

22.910 (46.17) 378

37.

6266i
 115903 13 17.7 -11 03 6.8 910 +50e
 -0084 = 2.2 -010 ± 2.3
 -0086 -014
 50(25)
 44

18037 6.73 + 1.00 + 0.79 3AS + 54 356
 7924 1897.5 -11 2 31.27 18953 + 2640
 441
42.621
 .88
30.39

23.327
 18.928
42.255
 2.90
2.13
 30

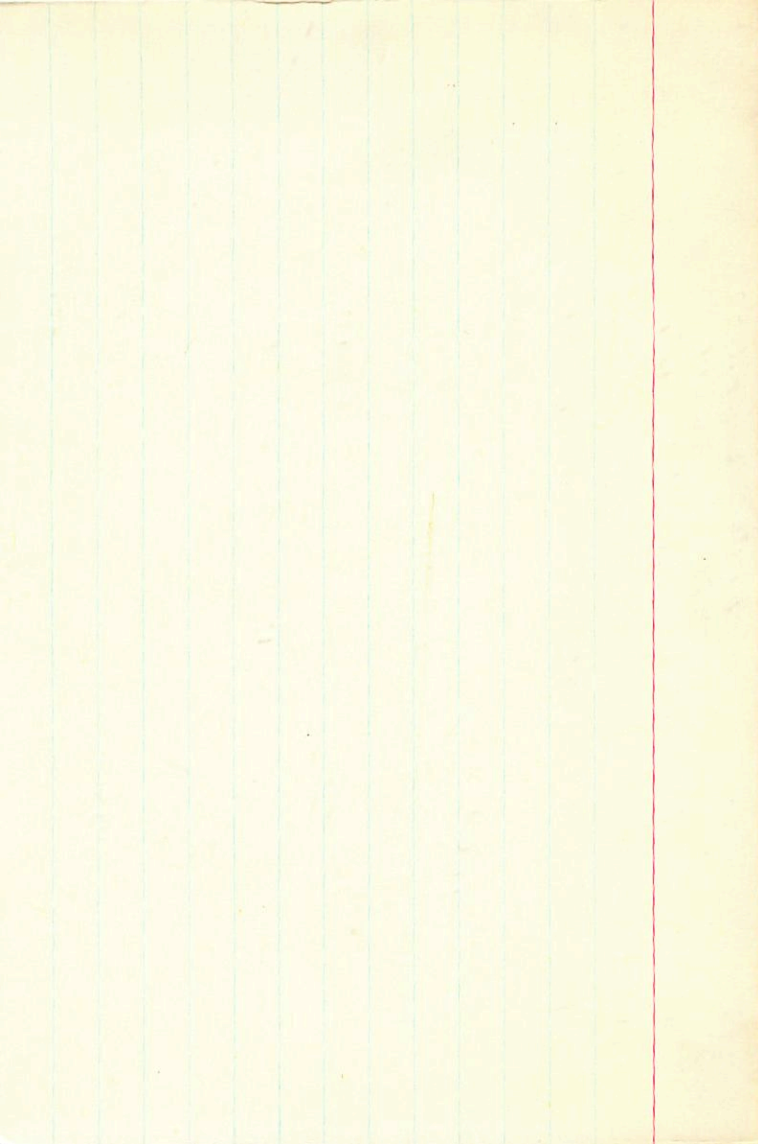
42.269
2.71

38.8

37.93 1933.69
 53.55
31.48
 -1.49
30.98
 30.15
30.81
 31.23
31.14

253
 363
 41.0

1958
20.98
 30.15
30.81
 1938.61



115968

13 12.8 +35 25 d66 +1 d

7.9

-397 -086 Gc

-387 -073 Gc(2)

-390 -077

3.5 Quibit

3.3 Quibit

23A(20)

50135

-333-543 621 254 -350-027 +1-045 0 -254
-650-016 365 045 -829 1.445 0 0 0 04
-21

115983 13 18.0 +5 05 -00 27 ±4.7 -010 ±4.2
-00 27 -00 9 6.9 A3M -19.2 8

18047

7927 2.173 1886.7 +5 5- 20.26 18853

$$\begin{array}{r} 171 \\ \hline 2.1344 \end{array}$$

$$\begin{array}{r} 2.182 \\ \hline 2.205 \end{array}$$

2.194

$$\begin{array}{r} 27 \\ \hline 2.21 \end{array}$$

$$\begin{array}{r} 213 \\ \hline -131 \end{array}$$

49.0

$$\begin{array}{r} +68 \\ \hline 20.91 \end{array}$$

20.64 1935.0

$$\begin{array}{r} -15 \\ \hline 20.49 \end{array}$$

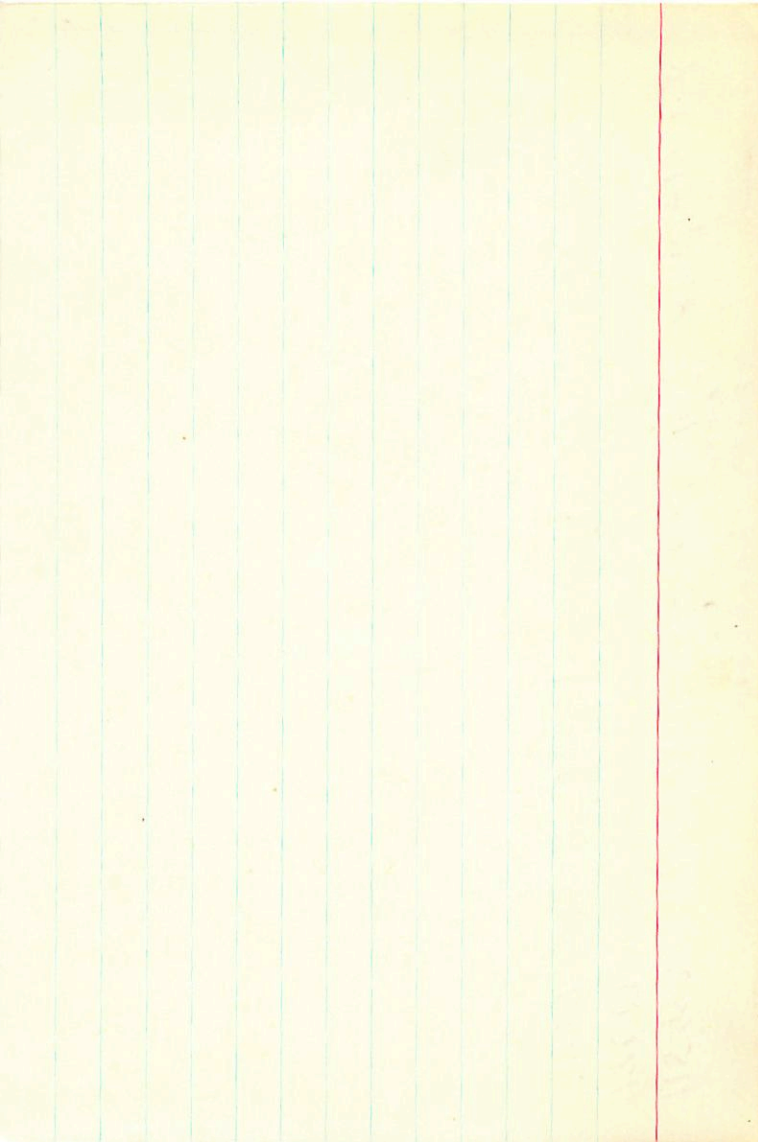
20.72 1936.38

$$\begin{array}{r} -27 \\ \hline 20.45 \end{array}$$

1138
35.7

$$\begin{array}{r} 20.47 \\ \hline -44 \end{array}$$

50.4



2361m

116610

18048

7924

13 18.1 +40 25 5.7 9181-20.6a

-0050⁶¹ -008⁶⁶ N30

-0049±1.9 -009±1.8 6L → N30

PK6

2008
2008

5.50

244

243
244
245

116056
GC18053

W7831

Y3052
+4302321

18 18.3 +48 22 d112

8.2

-392W(3)

+30 -52 -25 .04

-423 -104

36 A(28)
25 M(8)
26 W(7)
2059(4)
3075

-0398 ± 6.0
-0385

-104 ± 5.0
-091

16.317

1.928

18.245

10.951

6.340

17.290
-42
248
0

17.06

19
679

19003

327

17.169

1.081

281

443

22

26.17

18973

5.48
31.65

21.8

1526.5

28.82

746

29.27

24.86

28.9

1530.2

25.60

28.53
-2.82

28.9
31.1

11/6/14

13 191 -18 29

4605

703 F0 Zp

-1035-012

-050-012

-52

-12

5

4605

R.A. : 13.300
DEC. : -18.500
M. R.A. : -52.000
M. DEC. : -12.000
DISTANCE : 5.000
MODULUS : 100
D. VEL. : 6.500

q1 (U) : -0.800
q2 (U) : 0.346
q3 (U) : -0.490
dU : 167.389
U : 13.557

q1 (V) : 0.589
q2 (V) : 0.606
q3 (V) : -0.534
dV : -172.165
V : -20.689

q1 (W) : -0.112
q2 (W) : 0.716
q3 (W) : 0.689
dW : -14.531
W : 3.027

64

116175

13

19.5

-12

19

9.1

gmi -33.06

-0003 ± 3.5
-0002
-015 ± 3.5
-011

18089

7940

29.353

1905.1

-12

19

589

6903.4

$\frac{013}{366}$

$\frac{+70}{5.19}$

28.3

10.069

$\frac{19.2327}{29.3017}$

$\frac{29.340}{341}$

$\frac{12}{350}$

29.367

$\frac{509}{366}$

14.03 1927.24

$\frac{52.25}{6.26}$

$\frac{6.57}{7.77}$

$\frac{5.23}{5.54}$

$\frac{5.160}{+9}$

$\frac{5.51}{5.52}$

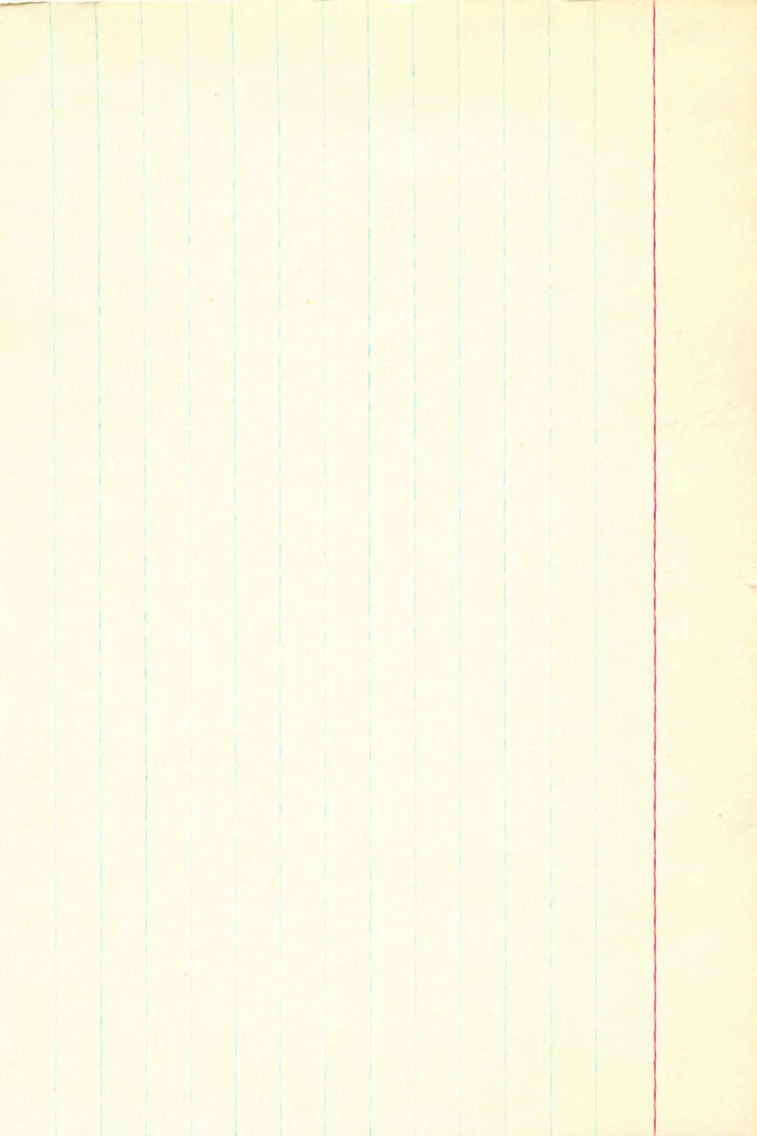
66.86

$\frac{33.4}{30.0}$

$\frac{1939.62}{30.0}$

$\frac{5.51}{5.52}$

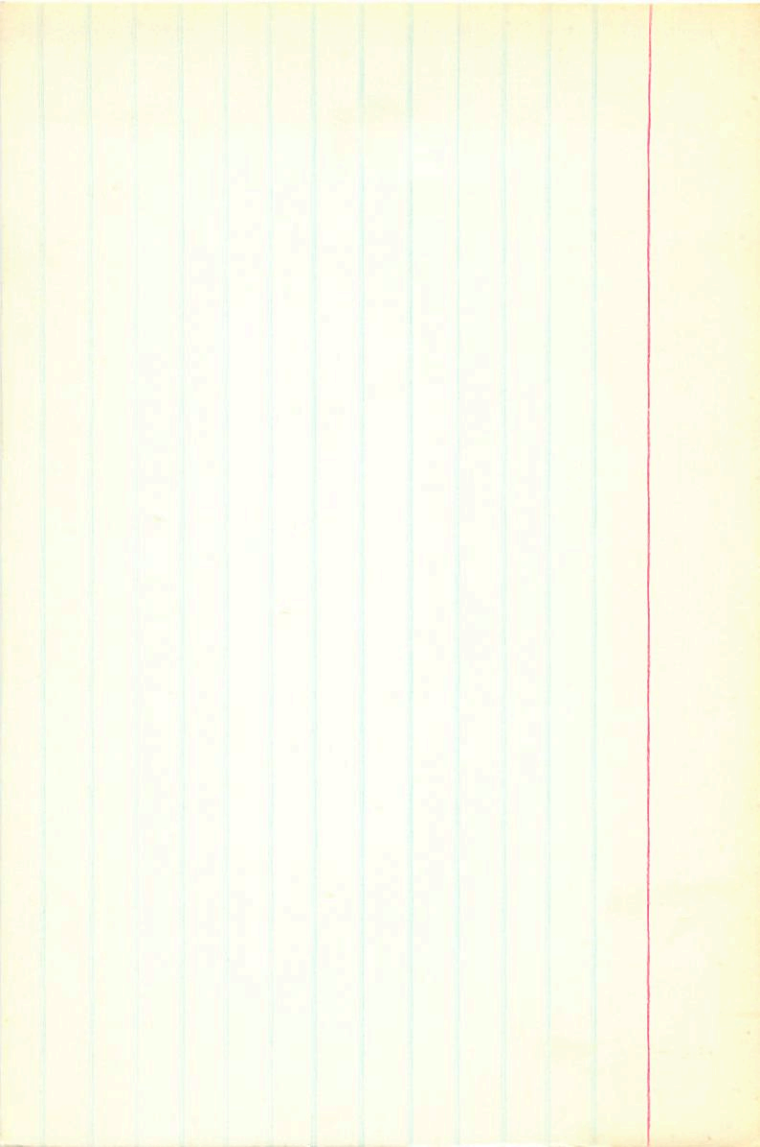
$\frac{-}{.33}$



+402649 13 19.6 +3939 8.5
8.78 8.27
-21808 -12 0.0

116365
276

6m25
176122
-0004 +004
-0011 +001
1002
+4
" -008



HZ 44

13 20

+37 00

-15- A

-070 +020

-342 -840 602 259 -070 +020 -15 012 -9.076
-024 004 +066 -011 -062 332 -12.0 +11 +4 003

-9 +114 +16

$\boxed{-106 -43 -2}$

-5 +87 +10 004

$\boxed{+81 -33 -5}$

+1702621

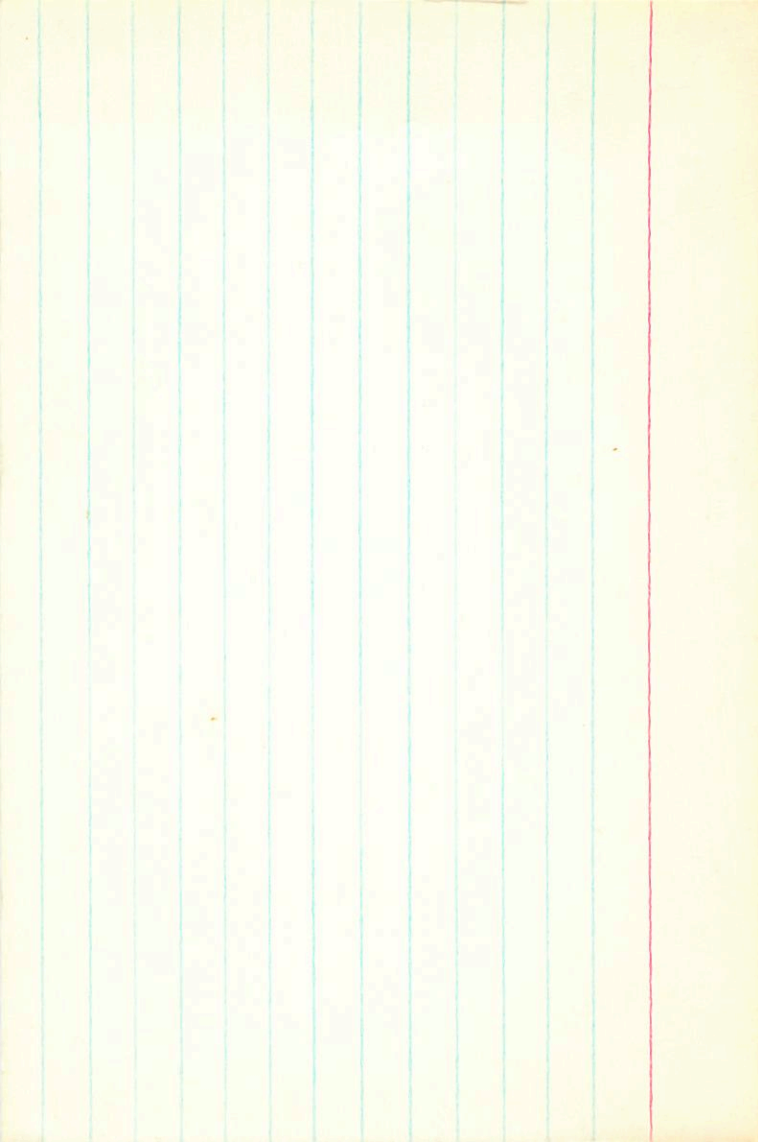
8.84 + 18 + 11
1.9
13

116363

8.8
20.5 + 14 32 8.8

Ⓟ 16.04

-056 + 011 Y
-1 -5
-057 + 006
+ 5



7.92 + 14 + 04
1.9

- 40

+ 1902665

7.8 20.6 + 18 32 7.8

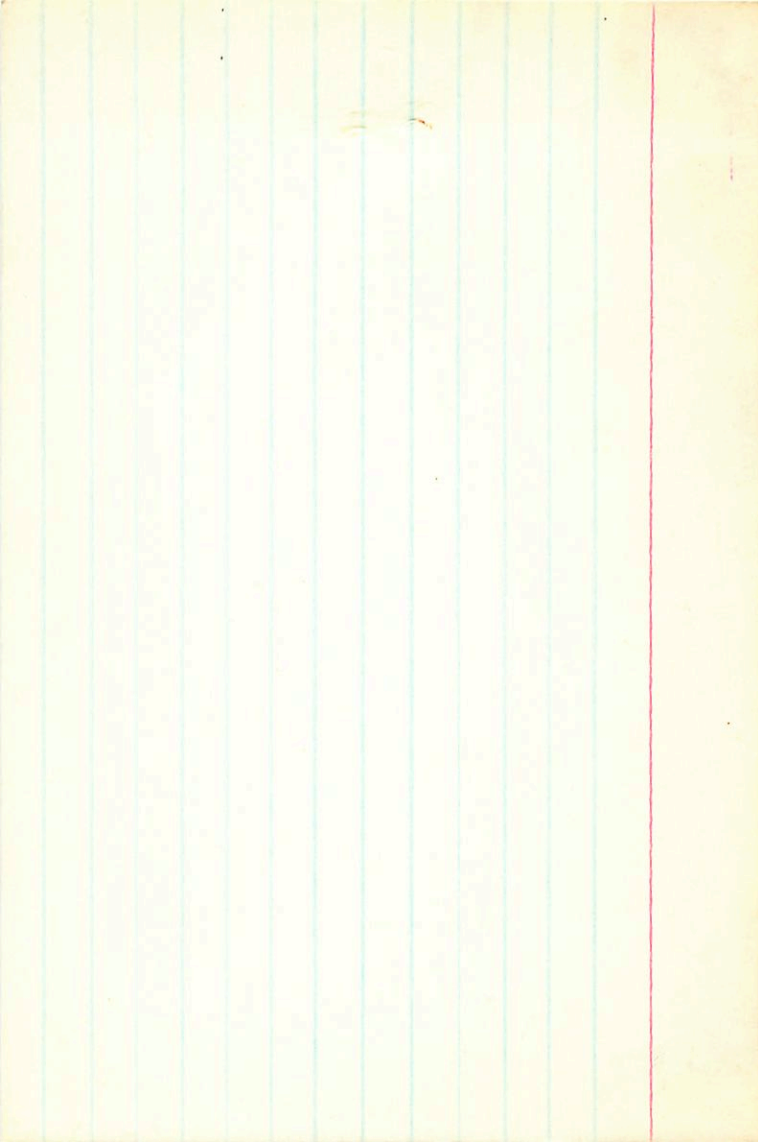
116379

- 024 + 015 Y

130 Gn 50

- 0022 + 009

" - 031 + 009



116364

13

20.5

+15

37

~~44.0~~

NO

1162501

7.58 + 1.25 + 1.24 (2)

7.04 + 0.46 (2)

44
60
16
2

(2)

-44.0 *Suppin*

-049 -005 Yala

-1 -5

-050 -010 GC

-050 -007 F124

-048 -013

65

12

116364.000*

13.000*

20.500*

15.000*

31.000*

-0.048*

-0.003*

7.600*

331.131

-44.000

0.173

-0.000

116243 13 20.6 ⁺⁰⁰⁴¹-64 16 ⁻⁰³⁴4.5 64 +11.8a
+0053 ± 5.1 -034 ± 8.9 6.51E-14

18107

7947

~~4732~~

~~4732~~

~~9276~~

~~1421~~

~~15~~

~~32421~~

~~2813~~

~~252~~

~~474~~

32539 1912.1

-201

.338

37.387

396

37.558

15

576

-556

-808

+50

-32

-64 14

24.53

19083

28.54

-45

28.99

0040

-026

026

-1049

-42

-7.2

16

4.5

64

+11.8a

+12.9

50.46(14)

1204

+0155

+0900

-6065

-1270

-1464

1940.24

3378

3378

3378

3378

3378

3378

3378

3378

3378

3378

3378

1940.24

3378

3378

3378

3378

3378

3378

3378

3378

3378

3378

3378

1940.24

3378

3378

3378

3378

3378

3378

3378

3378

3378

3378

3378

1940.24

3378

3378

3378

3378

3378

3378

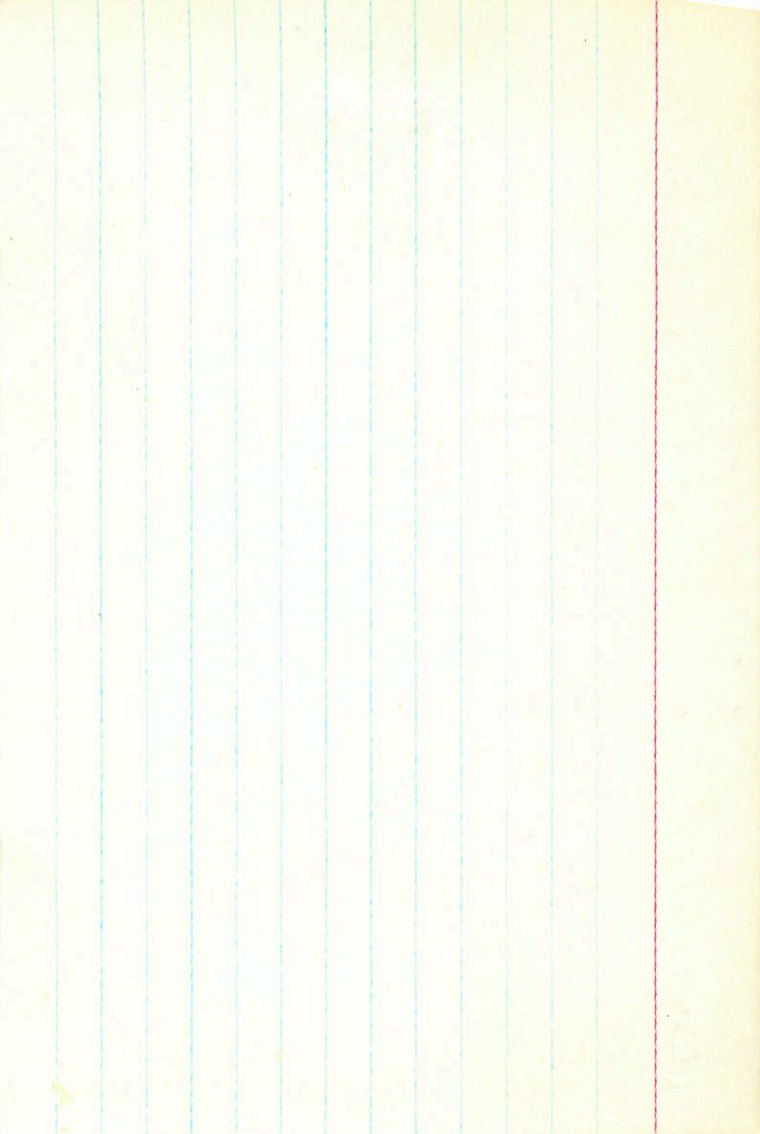
3378

3378

3378

3378

3378



13,280	R.A.
41,100	DEC.
128,000	R.A.
22,600	DEC.
4,110	TANGE
45	DULLUS
18,900	VEL.
10,800	(U) 1
8,500	(U) 2
0,000	(U) 3
004,000	DU
01,400	U
0,281	(V) 1
0,770	(V) 2
0,341	(V) 3
350,000	DR
10,000	V
0,000	DU
0,234	(DU) 1
0,000	(DU) 2
0,000	(DU) 3
0,000	GM
0,000	W


Handwritten scribble

R.A. : 13.200
DEC. : 41.100
R.A. : -150.000
DEC. : 22.000
DISTANCE : 4.110
MODULUS : 66
VEL. : -18.300

1 (U) : -0.809
2 (U) : 0.584
3 (U) : 0.067
dU : 494.486
U : 31.602

1 (V) : 0.581
2 (V) : 0.778
3 (V) : 0.241
dV : -229.960
V : -19.678

1 (W) : -0.089
2 (W) : -0.234
3 (W) : 0.968
dW : 23.263
W : -16.174



58 via

115466

13

14.8

-10

17

7.2

DAF 76.56

17990

6.84 + 0.32 + 1.57 124¹⁰

7899

-0056²³ + 006 N30

0482f

-0055 ± 2.1 + 011 ± 2.0 6c → 7A30

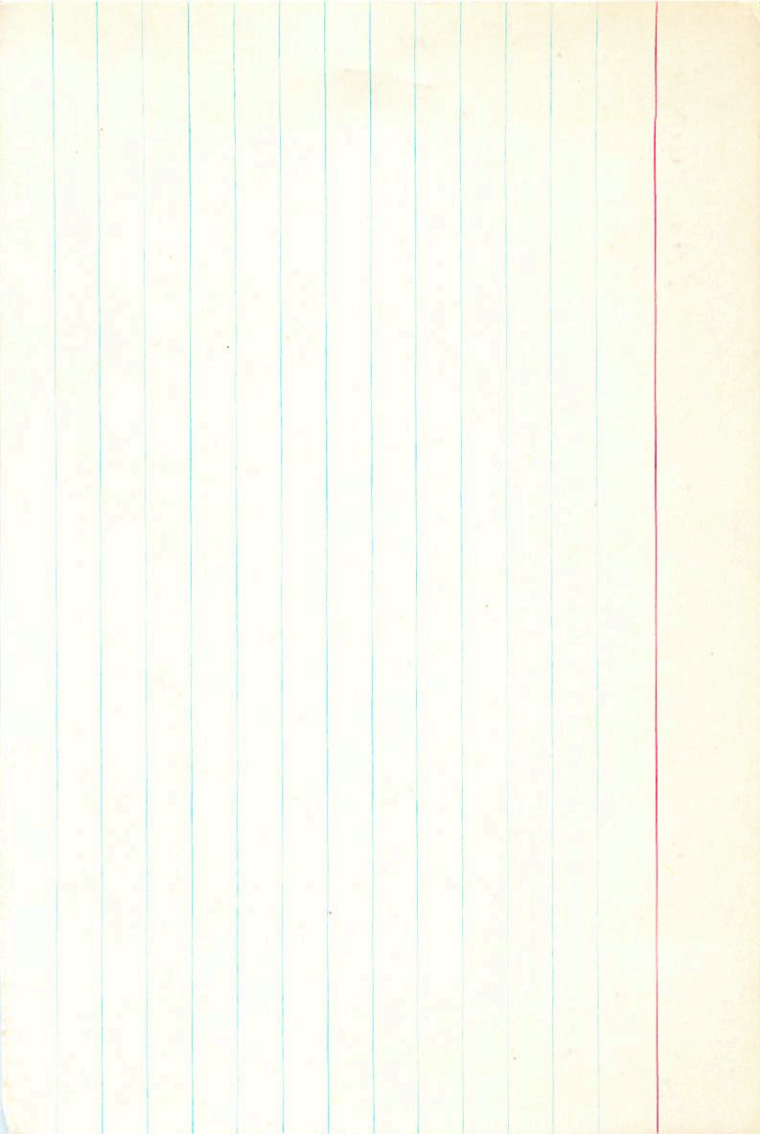
16.40

-89.62

1261 0.74

~ 9549

~ 7509





116364.000*

13.000*

20.500*

15.000*

31.000*

-0.048*

-0.003*

7.600*

331.131

-44.000

0.173

-0.221

+0053 ± 5.1 -039 ± 3.9 6-5 II -12

116243 13 20.6 ± 0.4 16 -0.34 4.5 24 +11.8a

+12.9 ± 0.4 (14)

18107

7947

37.539 1912.1 -64 16 29.53 14083

$-\frac{20}{.338}$

$\frac{+0080 \div 627}{+00}$

$\frac{37.397}{396}$

$+\frac{1.63}{27.90}$

$\frac{28.54}{-45}$
 $\frac{28.99}{28.99}$

$\frac{20.27}{30}$

$\frac{24.73}{-29}$

0040 -026
026

3740
1676

-754 -121 -556
+554 +50 -803
-127 +554 -32

1204 +0155
+0900 -0065
-0194 -1270

-1044 -42 -7.2
+0835 +33 -9.6
-1464 -58 -0.4

574

