

+0029±3.2
+0024
-09 16

+024±2.7
+022

7.1 g N3-25.5 g
344 ②

21 42.3

206833
30446

15.319 1404.9 -9 16 1.72 1500.7

-131
188

55.388
19968
15.306
27
1299
243
125
15.292
298

33.5

2.90

54.81 1984.82

57.65
3.16
8.0

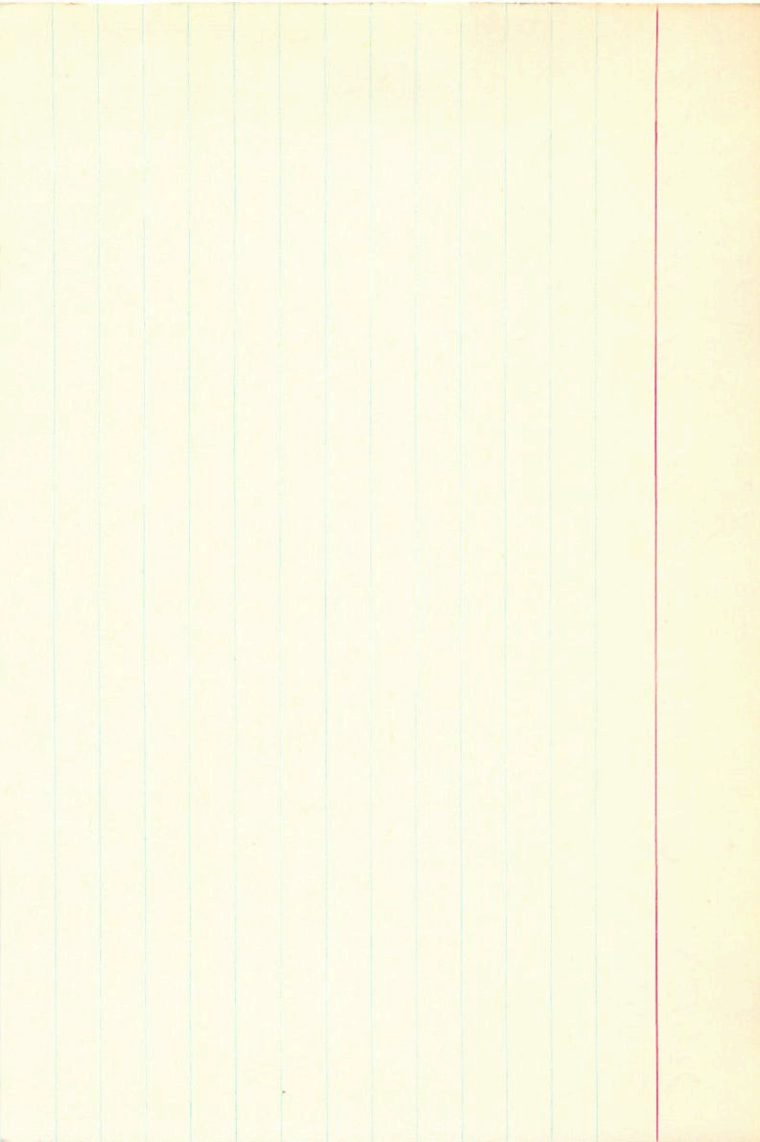
7672
38.4

2.34
2.12

37.7

2.31 1941.90
29

2.02 2.07
1.83



1068
2067M

21 72.7

-54 15

-14(4)55

+12

9.81 +6.0 1.64: 62PI

69 +

$\frac{5.26}{4.55}$

490

97 +4

+0.5) -221 CP
+
-3

$\frac{+0.53}{+12}$ -224

530

+0.65 -220

Av. Sp. B. $P = 6^d$

4.3

2x Pay
A0515281

21 42.4 +25 25 -8.1a

206901

.0265

30450
13667

51
+0023 +013 51 N30

+033 +010 6c
+031 +015 F
+037 +013 N30
+033 +013

+0023 ±1.4 +013 ±1.2 6c → N30

28±4

-565 825 429 503 +033 +013 -8.1 006 -3 057
019 003 027 005 066 142 -73 -6 +4 0265

$$\begin{array}{r} -3 + 9 - 1 \\ \hline + 8 - 6 + 1 \end{array}$$

2 Oct

21 43.5 -82 57 65 -10.5 8

206240

H09280

31472

13676

5.4

7.6 A3 3"

+073 -034 6c

+075 -024 N

^m
7.7 3"

+0407¹⁰ -024¹⁰ N30

+0420^{±1.7} -632^{±1.9}

+062 -056

0704

0.03

-561828 - 992 123 1074-026 -10.5 026 110 -014
042 015 061022 095 340 -1.3 -1 +1 009
+10 +41+5

207633 21 43.5 +11 39 250 27.68

+1104653

8.5

8.8 | +63 +15

13.00

+758	+560	-332	-312	-2044	-5206
-693	+597	+745	+0388	-2179	-1791
-645	+571	-505	+2660	-2084	+666

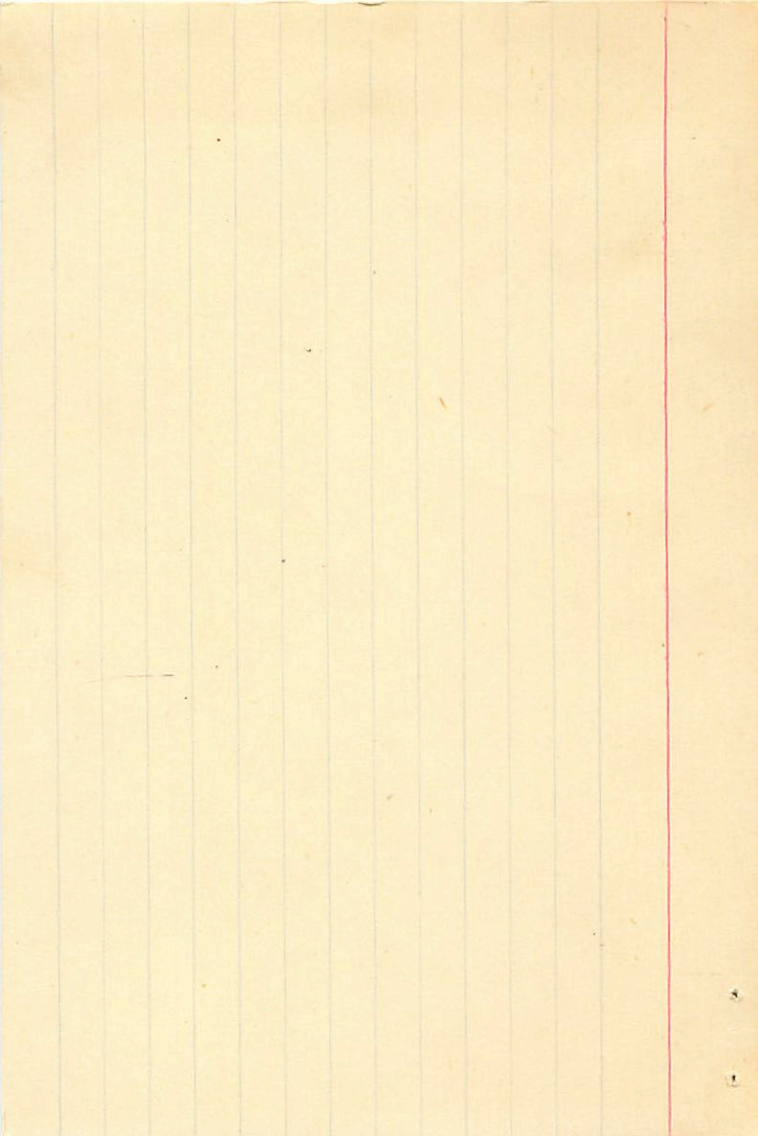
#11 ↓ B30- 8500-

-85

070	-	1700	-	070
-	030	-	050	-
-	-	-	-	-

660	-	0900	-
-	0060	-	077

-57.8	+9.2	+48.6
-19.9	-21.9	-41.8
+6.7	-13.9	+20.6



207088

21 43.6 +35 35

-5.080(4)

GC30475

W13679

6.27

HR8320

+093	+006	G-C
+084	+015	N30
<u>+098</u>	<u>+012</u>	

+35 -7 -20 C1

-561 828 552 813 +088 +012 -5.0 007 -3 047
049 004 073 006 204 365 -4.1 -3 +2

$$\begin{array}{r} +17 +38 +2 \\ \hline +35 -7 -20 \\ \hline +38 +75 +6 \end{array} \quad \begin{array}{l} 01 \\ 005 \end{array}$$

00-0.6

207088

21 43.6 +35 38 6.6 6874 -5.06

30475

+0069 39 +015 12 N30

13679

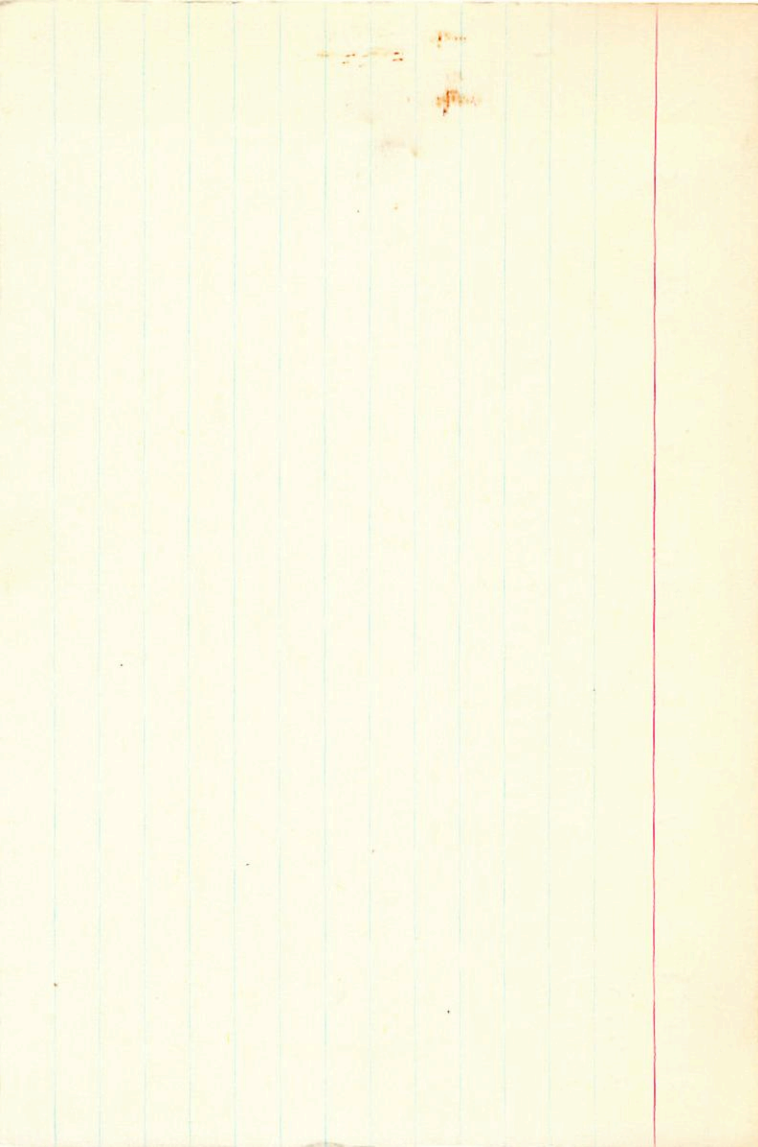
+0074 ± 5.9 +009 ± 4.966 → N30

Feb 23 91

09307 +011.2

PRS

884r	890	Pr.
848r	148r	0839
		003.0



50 Cap
 207061 21 44.0
 30484
 13684

+0019 ± 3.2 -128 ± 2.7
 +0027 116
 -11 56 7.0 dFL ± 2.38

± 6.58

0.415 1904.9 -11 55 40.26 19006

-086
 329
 39.602
 20.840
 00.442

6.32
 3394

107.5
 0.34
 4.4

32.51 1934.31
 53.80

32.8

411
 4136
 4089

38.71
 38.81
 90
 37.32

7549
 37.7
 37.1

418
 -11-8
 -5653
 -38531

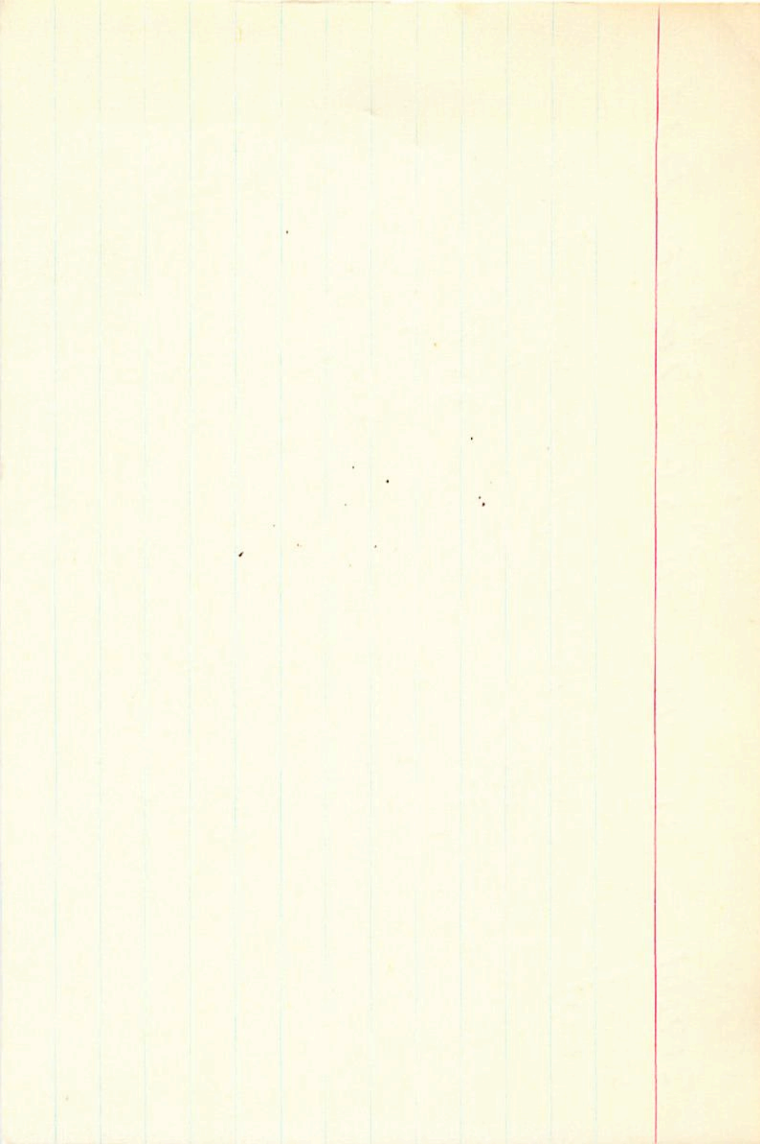
651
 58

19411.6
 38.24
 4.32

9243 1911
 2490

6.448
 214
 424

39.12
 38.93
 8.24
 4.32



8332

see

21 450-054 30 70-054 12

1046 + 001

1048 - 001

748 842

983

0479

8200

-0038

-275

0065

043

1901

1901

207277 81 45.7 - 39 61 8.12 + 1.9 - 16.9

- 0021 - 020 Y → + 0001 - 002 Y + c

- 024

$\boxed{-024 - 024}$

+ 0008 + 002 604

39

30

21.750
- 39.300
- 31.000
- 24.000
8.000
398
- 16.700

0.763
0.102
- 0.638
- 98.398
- 28.509

- 0.101
0.994
0.039
- 101.645
- 11.117

- 0.639
- 0.035
- 0.769
76.544
43.310

39

-0034 ± 3.1
-0037

267435 21 46.4 -5 38 6.8 9 100 +0.37

30538

13706 24.756 1402.9 -5 38 11.41 1898.9

$$\frac{160}{916}$$

$$\frac{6.166}{18.688}$$

$$\frac{24.854}{833}$$

$$\frac{-12}{821}$$

$$\frac{24.786}{780}$$

$$\frac{204}{937}$$

$$\frac{8.48}{56.80}$$

$$\frac{1868}{78}$$

$$\frac{1090}{34}$$

$$\frac{149}{145}$$

$$\frac{1120}{27}$$

$$\frac{193908}{10.93}$$

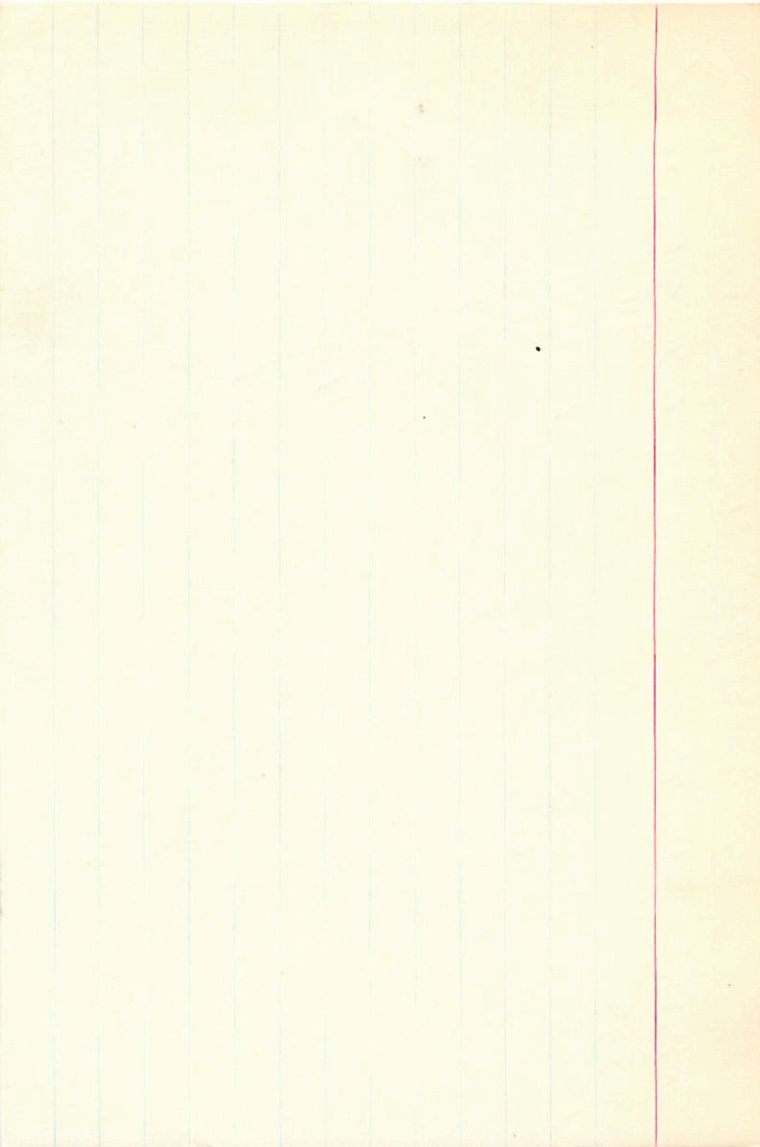
$$\frac{6819}{10.74}$$

$$\frac{34.1}{-1.37}$$

$$\frac{35.2}{-1.37}$$

31.2

$$\frac{800}{-116}$$



0 chud
-0055 53.2 -60 55 53.2
-0052 5.5
+0.4 M

207241 21 46.6 -69 52 9198 +20,21

30541

13707 34,433 1407.7 -69 51 48.70 19067

233
1,666

36

22
48,48

35.601

-74
525

39.5

460
-206

48.38 1439.30

48.40

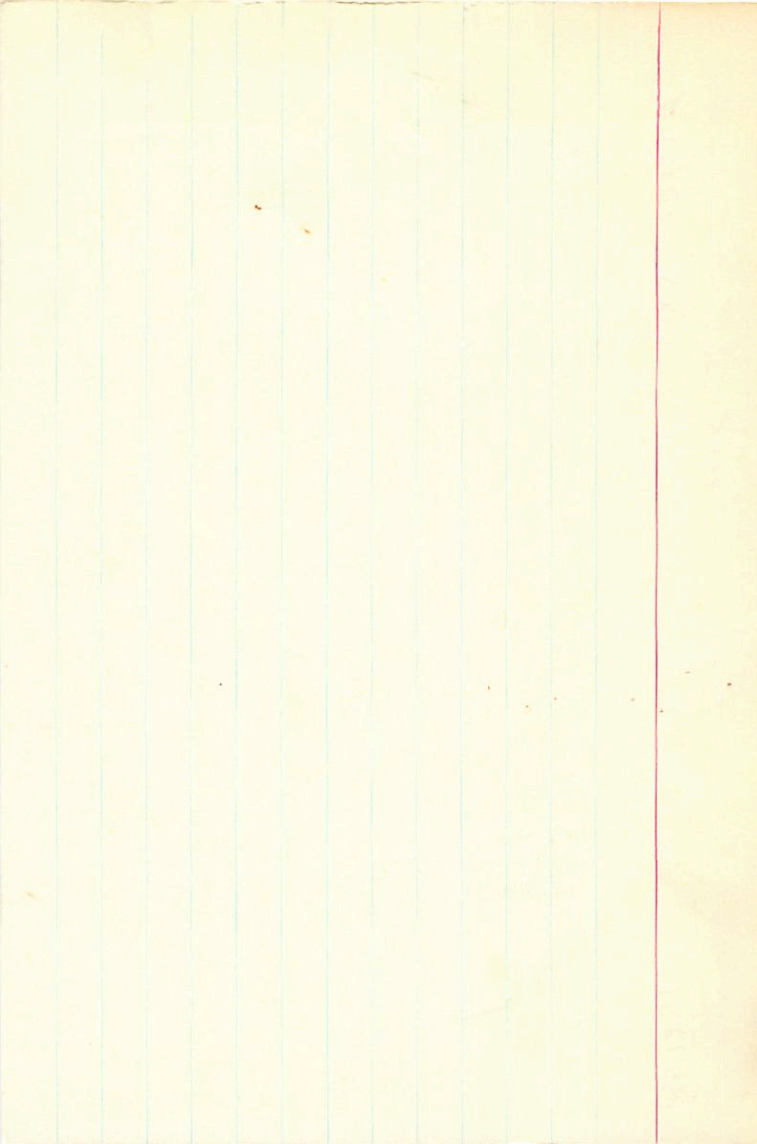
48.28
+1.20

9446
47.2
40.5

35.385
+7395

48.00
-15
48.15

145516



09/10/20

58500

2

477

2

2

1204529

-520

$$+031 -023 \times$$

$$-7 + 7$$

$$+024 -016$$

$$+027 -014$$

$$+025 -017$$

40

Blank page with faint, illegible markings and a small dark spot near the top center.

24.800
-24.400
31.000
-17.000
8.000
398
-52.000

0.768
0.267
-0.581
81.299
62.602

-0.109
0.950
0.700

207826

21 48.0

-0044±3.4
-10.54

-055±27

2 p.o.

+66 34

P=2.7

6.5

df2 -1422

30574

13717

AD515366

58.670 1890.8

260
930

+66 30

33.77 18844
362

-154
-16.5

Dist
Quint

58.599

34

1633

-297

3739

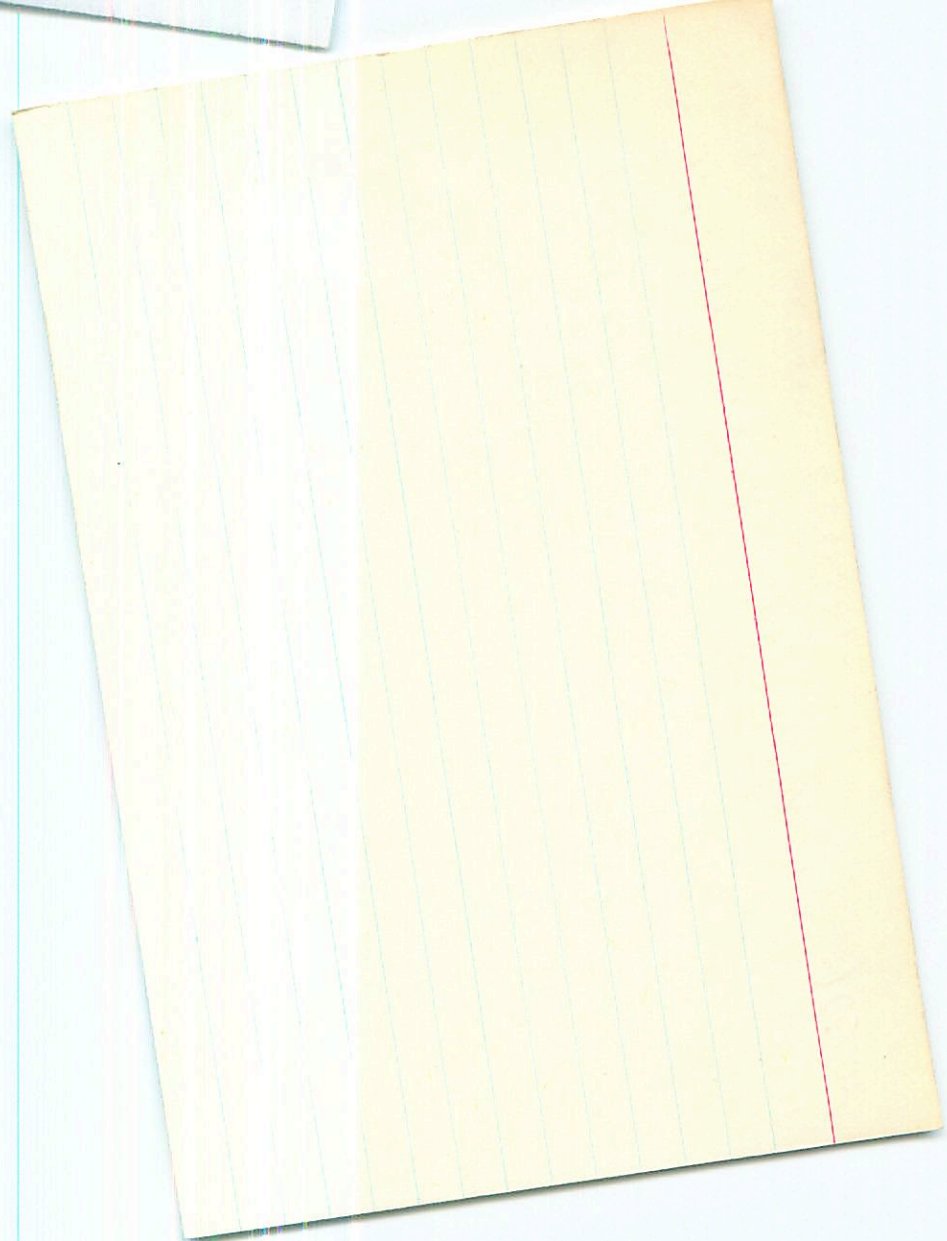
∞

33.20 1945.36

-12

3308

431



+280 4210

21 48.8 728 56

AD 15376

+270 +1724

$\frac{-3}{267}$ $\frac{-3}{169}$

+2705 03.5

1273 +170

8730 7825
4664 4704

NO

8.72 1886

9.0 9.2

6.9 7.1

3185

0216

+2.7

0380

2.10

+280 4211 21 49.0 128 35

$\begin{array}{r} -3 \\ -9 \\ +25 \\ \hline 13 \end{array}$
Kleinman

10.5 -0.34 Op

-56 -4 -12 .006
-66 -5 -13 .005

Journal P.A.S.P. 64, 256, 1952
R. G. Hall P.A.S.P. 65, 184, 1953
D.A. MacRae, R. Fleischer, E. Weston, Ap. J. 113, 432,
1951

$-0.045 \pm 4 - 0.062 \pm 4$
Hall
Ap 657

541 841 479 878 -045 -062 +5.0 -030 +2 -255

-024 -016 -035 -025 0 -256 +4 22 +4 -53 -49 005

$\begin{bmatrix} -30 & -11 & -17 \end{bmatrix}$

207840
30594
13724
BCR P
21 49.2
+19 35
5.7
5.7 -20.46

→
6.10 = 144
5.68 - 0.8 - 3.8
11.305
6.5

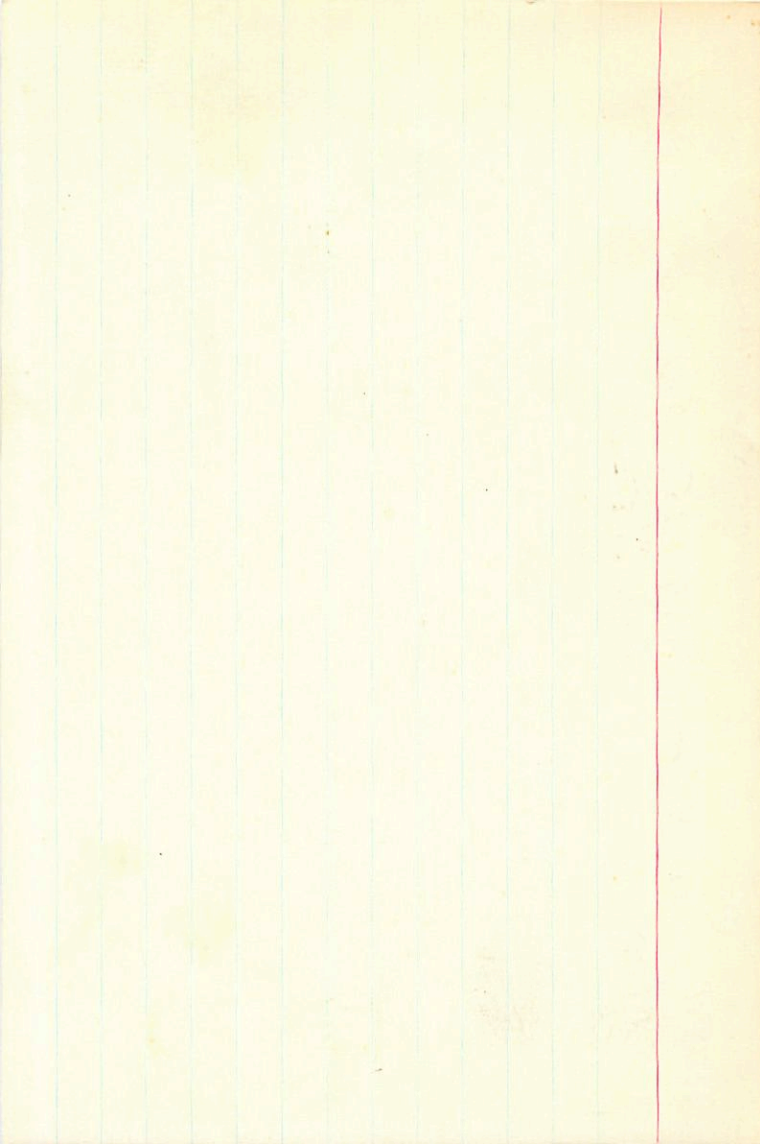
A0515303
13.196 1403.7 +19 35 29.17 1903.7 17.9
-0.32
1.64

8346
412562
13.180
+7 +20 BC → N70
+3 +16 NW
+5 +18
28.81 1938.18

174
+0.12
+0009 +018 1450
28.83
+49
16614

772
115
-625
593 -227
482 468
644 -440
+0475 +0506
-0079 +0411
-0383 +0549
+0981 +18.2 +4.6 = 20.81
+0340 +5.6 -17.7 -12.1
+0106 +8.8 -9.0 -6.2

240
23.5 25
8.2 -10
4.0 -5
200
14.6 124
+6.5 -11
+2.3 -7



80515390 8.5 4" +0024 43 +026 3.5
207990 21 49.5 +61 23 7.5 A2 -29.48

30604

13732

30.153 1897.5

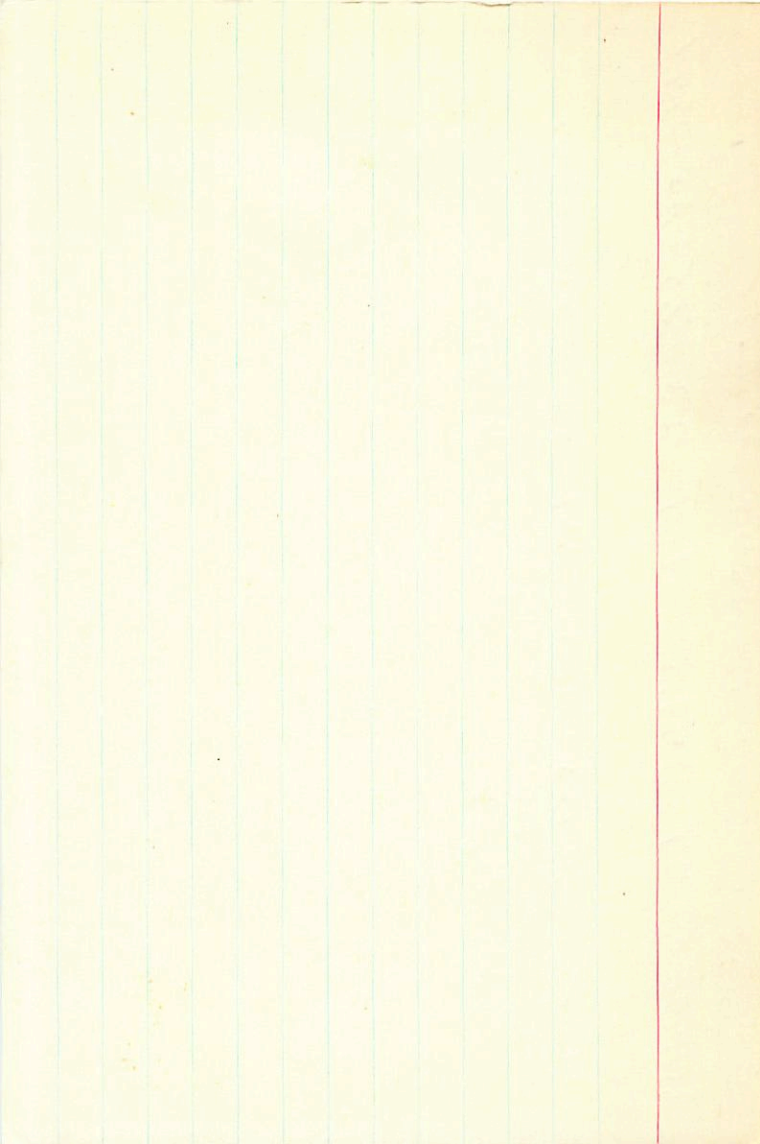
+61

22

5-4.26 1890.4

$\frac{126}{.027}$

$\frac{1.55}{52.71}$



Awley
207956

$P=10.6$
00
-0006±9.5
-0006±8.7
-012

21 50.0 +22 47 7.2 42+50 0.0 6

30618

13738

2.658 1898.0

+23 46 38.00 1898.1

$\frac{031}{689}$

$\frac{31}{38.31}$

2.707

37.70 1934.2

$\frac{708}{1377}$

$\frac{21}{37.91}$

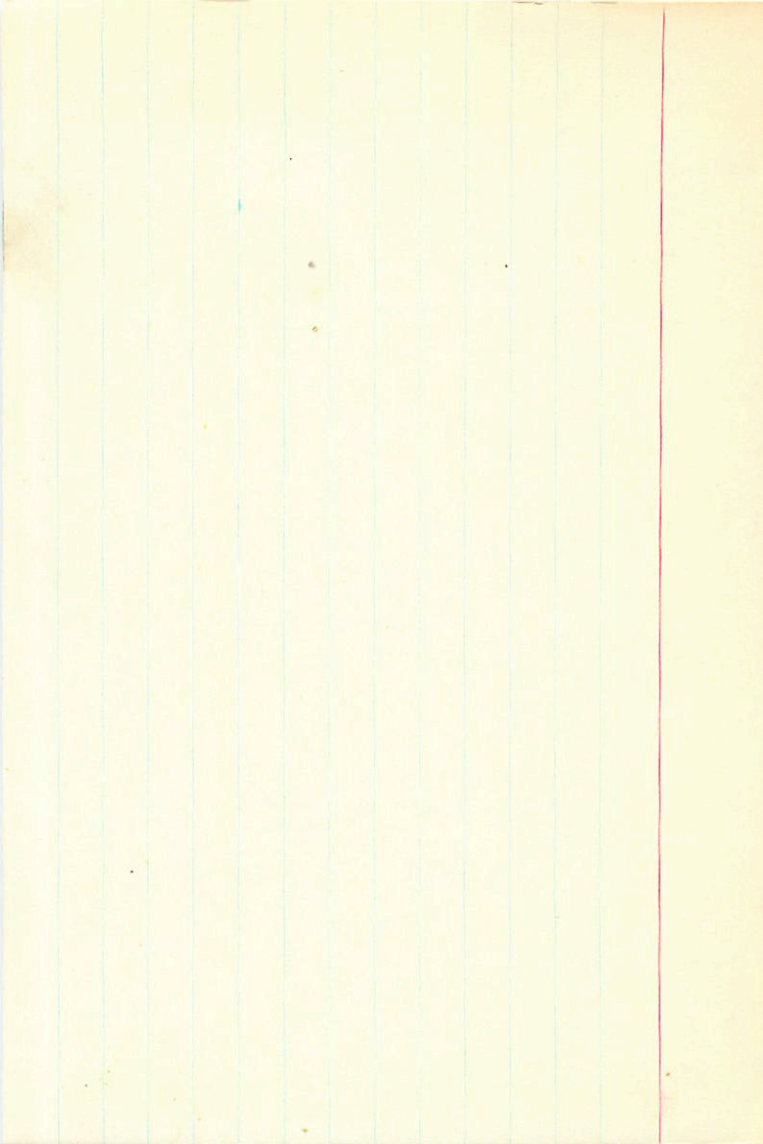
2.672 1377

33.2

38.01 1928.29

$\frac{-3}{669}$
 $\frac{688}{-001}$

$\frac{-6}{3795}$
 $\frac{4249}{31.2}$
 $\frac{3793}{-38}$
33.1



207852

30619

21 50.1

-47 04

+21.2, $C_2(4)$

7.42 +0.56 ~~601B-B~~

+0.58 1.70

~~0.58~~
7.58

B-B +0.10

-062 -033 ~~Case~~

-30 -5 -23 .020

-233 681

7.340 1895.9

395

7.735

31.341

36.340

7.742

7.739

7.630
609

1015
508

227

7.442

36

406

-0073787

-03777.5
-037

-474 9.01 1893.0

45.7

2.11

6.90

9.79 1928.31

0.90

8.89

8315
410
4805

7.94

7.93

1745
872
1182

9.37 1954.54

15

9.52

207920

+0011 £3.0
+0008
+017 £2.7
+022

21 50.1 -04 14 6.7 965 +6.98

30620

13739

8.528 1903.8

-4 13 41.00 1899.7

-057
477

86
41.86

34.2

50.317
18195
8.514

43.33 1933.53 113.86
1.28
42.05 306
41.30
41.23
41.07

37296
31269
8565
-31
525

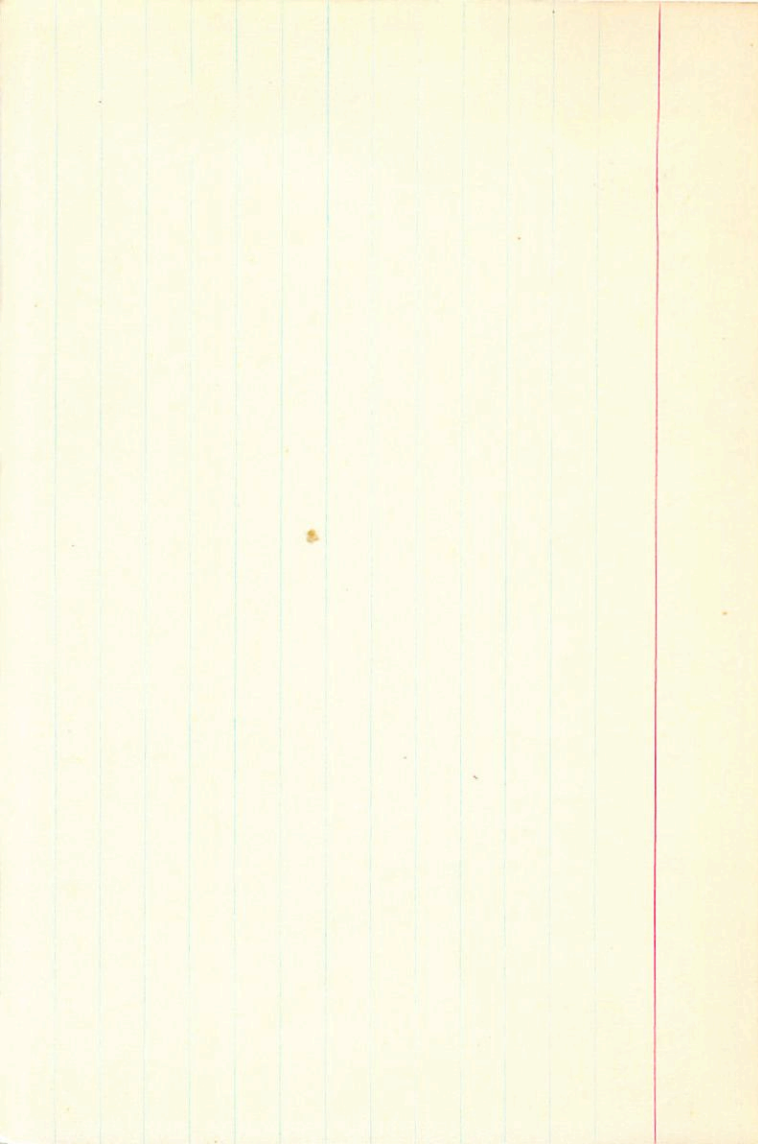
1518
594
+027

29.71
48.87
40.84
40.12
40.79

41.44 1939.18

41.2
40.79

1941.15



43904694

207992

21 50.2

+39

34

8.7

cl 65

-51.78

CC1319

13740

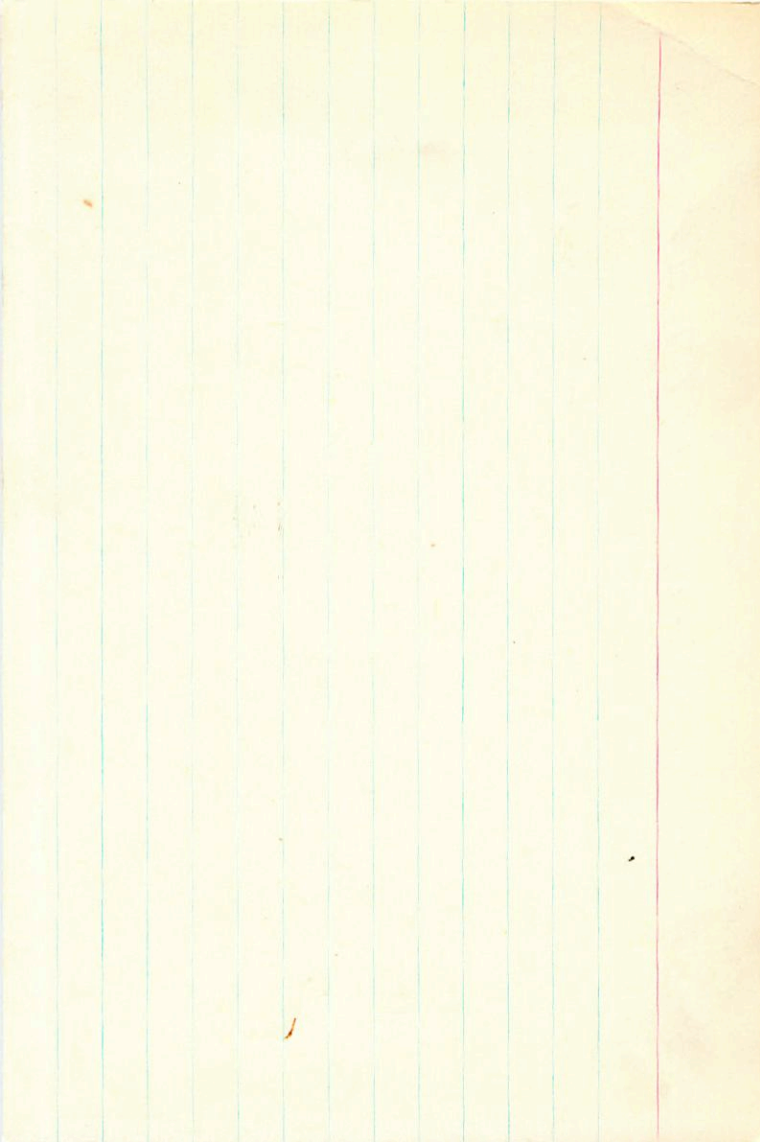
+0395

-015

km/II

65 10376

65 730



8357

21 503 +55 34

Quint B6 TH-IV

208095

sp. B 17.33

(+04)

5.70 -12 -47

258

-041 112 506 2747

10025 0 0 +

100 517
200

10016
10015

-6.6

714

$M_V = -0.25$

$M_V = 1.4$

$M_V = 5.5$

$M_V = 5.5$

0.279

10127
1014002

41



8357.000*

21.000*

50.300*

55.000*

34.000*

0.016*

0.002*

6.600*

208.930

-6.500

0.064

0.166

41

12.376

-0.010

0.986

-0.485

-0.040

0.023

-0.491

1051545

+0012 ±2.6
+0018

+004 ±2.0
+001

Sp.A. P. =

208063

21 50.3

+55

33

7.3

A1 -5.88

30626

+0008 +00666 →

+0014 +003 0.9

20

5.5

B6 -6.51

13742

30629

19.302

+55

33

40.32

1885.8

-073
229

-26
4006

48.2

28.00
50.665
19.265

37.6
0.02
39.62

1928.85

316
299
203 +087

40.10
+04

7440
37.2

1.945.55

51.4

14.329

40.23

9
338

-327
39.9

+0011 54.8 +021 53.5
+0025 +026

30626

18.704
 060
16.44

1845.9

+55 33

22.49

1890.7

 1.24
21.25

28003

+0007
+0025

+0028

19.6
 2.02

28.85

50665

21.62

18.698

 22.19

52.30

 22
+083

fos

21.11

2 Jan
207971 21 50.9 ~~+0085 ± 1.9~~ +0083 -014 ± 1.7
-015 3.2 138 -2.1 a

30640

13749 ~~54.440~~ 1906.6 -37 36 3.61 1903.1

~~54.440~~
-369
54.078

1073-0214
FMS

66
2.95

3.63 1935.47

54.360
-21
1339

39.9

20
3.43

821
410

124
362
-67

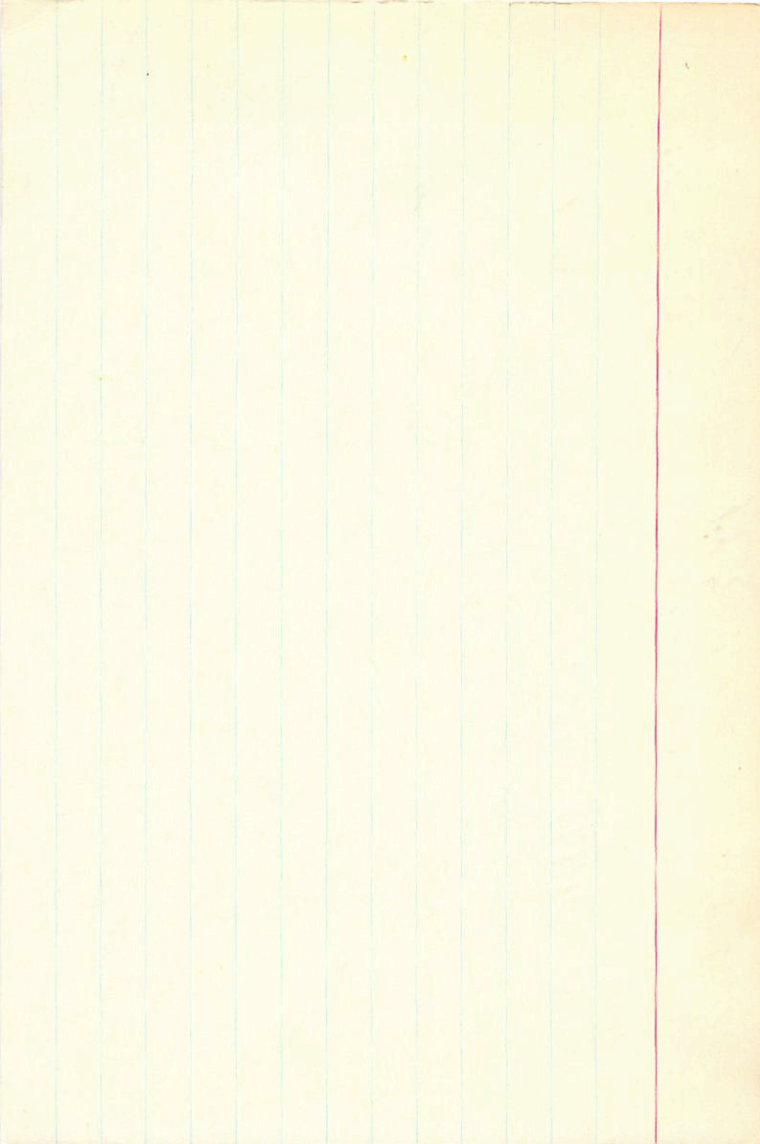
9509
47.5

44.4

54.498
-16
482
+332

3.74
-7
3.81

1955.62



208011

21 51.0

-20 15

8.1 dF2 -9.58

+0025 ±7.5
+0030

+126 ±8.5
+148

30643

8.12 +45 -03

13752

59.586

1904.5

-20 14

44.61

1900.0

2051549

-114
477

-6.30
50.91

754
82
110

9^m 5.5

26.243
33378
59.628
-39
274
+103

16.47
34.58
49.25
45.33
+13
45.10
+10
17.66
45.81

1939.28
=

129
+36
+9

1427 +2000

3427 +04

-0213 5919

5707 +57

-1154 +1388

10222
+2

+772

+313

-553

-115

+525

+363

-625

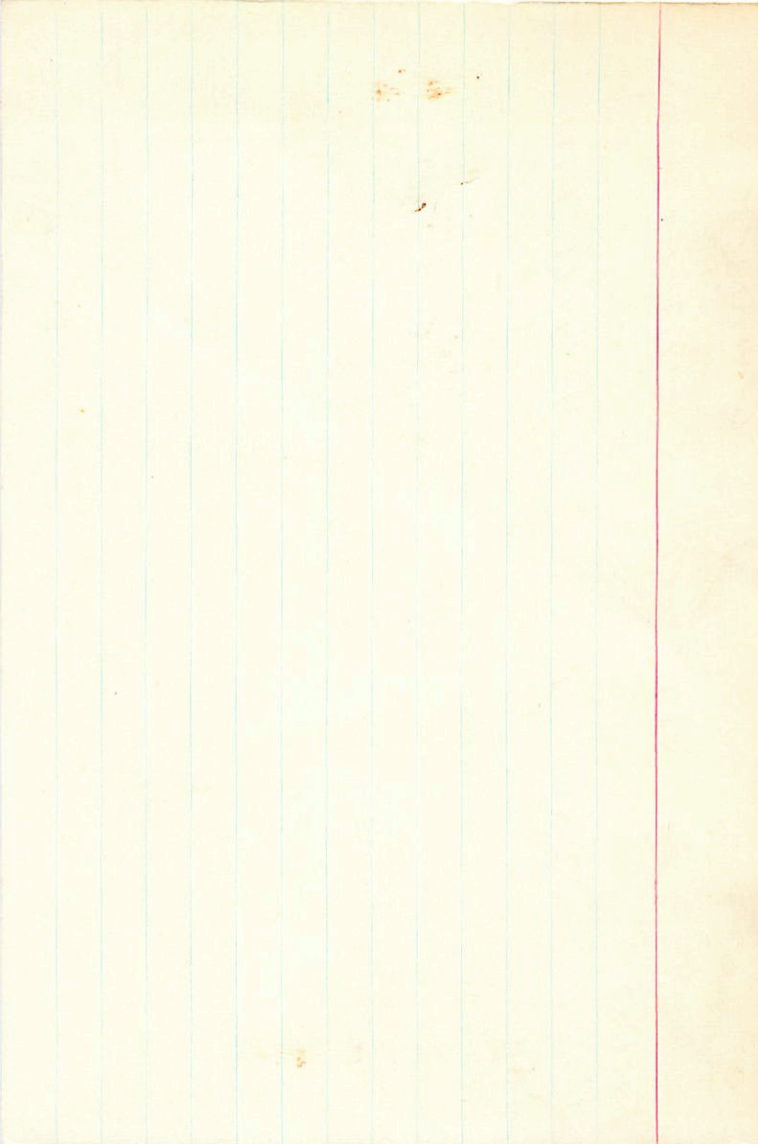
+217

-750

254
234
1384

254
1384

171
114



6-188-229
+35.4664

0.523

-10586 +143

-113 +114

104 +143

-128

+143

5.3

474

21 515 +35 37

empty

-97.9

2 lamp

9.13 +0.28 +0.115

lamp

0.183 322

42

218177

71 576 + 25 06 121

-706

227.4191

111

-0122 106 -110 ± 60

-156 113

40.009 6.22 -0122
0104

2496 5.2

$\frac{529}{948}$

$\frac{443}{2589}$

40.135
 $\frac{15}{40.00}$

13.52

~~224~~
-66

40.317 5762
-5

12.588
816.415
-B. 54247
-B. 143
-B. 055
-20.50381
502.807
502.807
8.558
-B. 118
16.5037
45.130
-6.021
0.0174
0.0174
112
F. 300
143.000
-158.000
32.000
21.888

VEL.
DULUS
STANCE
LTC.
M. R.A.
DEC.
R.A.

R.A.

43



221.850
- 28.100
- 177.000
- 13.000
5.550
- 7.000

0.774
0.619
0.000

8352

207844

30654

+0020±7.1 -083±4.9
+0050 -081

21 51.5 -62 07

+152 9.81

5.91 10410 FORTY

6.5, 6.7 0.1

c.c.c 218 146 440 +987 -083

31.354 15000 -62 7 20.38 1894.7
-350
1.004
15179

37.4

40.441
50.948
31.489
-1.300
1.189

3.82
1.91
+1.64

31.369
-0.241

21.60 1929.06

44.9
37.4
42.7

19.35
1.07
18.28

3.86
3.93
-3.45

18.24
18.32
19.44
-0.56
19.4458
20.16

-532 847 -584 468 1047 -083 +1 073 -0.9 -155

025 039 040 062 -155 374 10.5 + 4 + 0.2 03

-6 + 12 -7

-17.8 + 37.6 -19.3 01

015