

A057307

9 17.9 +3F 24

-0.7A

.0199

-0.42 -0.19 GC

650-760 621 784 -042-019 -0.7 -012 0 -071 ✓
027 008 032 009 055 190 0 0 0159 ✓

+4 +10 -4
[+7 -5 -7]

+328①

4 days 9 18.0 +34 36 9 mo +27.6 cc

-224 +013 F103
 -217 +013 cc
 -228 +013 #20
-220 +013
 -220 +013

3.13 +1.55
 22 N30
 -0174 +013 N30
 -0177 ± 0.9 +013 ± 0.9 cc
 → N30

MR2705
 80493
 12.85U
 16.082
 455 2.4 023
 410 42.4 014

25.8/20
 7m(S)
 24.66

—

2.

x Lynn
90483
9 18.0 +34 36 9 MO +32.6

GL 12550
GL 12004
3.13 +1.55 Egg 12"

440082
+350972
HR 3705
-217 +013
-221 +003
-219 +013

25A(20)
84(15)
2134

649-760 568 823 -219 +013 +37.6 007+21 052 ✓

142-005 166-005 - 696 763 +30.9 -23+20

+35 +94+25 012

+89 -2 -32

022

+9 +55+23

+60-4-6

02

360 41

46-36-11

30

80586 9 18.3 +25 23 7.3 dc-1 -38.16

12889

6087

8

+0046 -146 N30

+0042 ±2.5 -148 ±2.6 GC → N30

SP

9.300
25.400
66.000
-147.000
2.500
32
-38.100

-0.707
0.216
0.673
-350.015
-36.725

0.022
0.959
-0.283
-661.716
-10.132

0.707
0.185
0.683
70.663
-23.781

39

3707

9 18.4

+33

07

6-1 9103

+2270

+014-0416-2
00

40



3707.000*

9.000*

18.400*

33.000*

7.000*

0.014*

-0.041*

45874

3711 9 18.5 +15 36 AUB

80613

ZV

00204 + 0175
+ 15
+ 2000 + 10016
+ 10050 + 10016

002 146 1.098 2.862 2
147 294
395

-00245 -0185
-0170 23498 9.3
-1380 088V +15.6

-0354
-034-014
-86.5
+5
6.5
17.9

9024
-4309

0374

-0361
-035+005

6.4

-0027-005
-034-005

17.94

-0027-005
-034-005

11

41



THE
MUSEUM
OF
THE
CITY
OF
NEW
YORK
1850

1850

3711.000*

9.000*
18.500*
15.000*
36.000*
-0.034*
-0.014*
6.400*
190.546
17.900

0.092
0.625

28.805

40

-0.063
-0.442

-19.987

-0.134
0.643

-13.931

12

9.300
15.600
-36.500
5.000
6.500
200
17.900

-0.707
0.327
0.627
125.588
36.280

0.022
0.097
-0.442
17.510
-4.424

0.707
0.299
0.641
-110.683
-10.604

41

602
505 ✓

35

80719 9 18.6 -15 24 dF6

HR3714

6c12897

6.32 +46 00 C
305 153 470 8650

-10.6

218 +9

394 ~~87~~ / ~~96~~

3.45

303 4046-109 66 +
+0043-105 5

6.30 299 164.454 2.633

② 535
13 ~~22~~

40622
+065-106

-1

-706 604 371

021 534-842

70A 507 393

-2226 -3144

+0068 -2805

+2282 -3061

-5420 -16.6

-2787 -7.3

-0779 -2.8

-10.4

+0.8

-10.4

131

969

✓

33457

187

290

19085

+0045

+4.9

~~105~~
-105.442

1161

1305.1

+4.71

6.90

~~22.497~~

~~10.868~~

~~31.365~~

~~347~~

~~165~~

~~385~~

233

four | -110
four

+0046 -109
+ 1 -1

46.19

20.25

9.82

~~10.16~~

~~10.16~~

~~10.16~~

18.69

13.11

1333.24

2

33499

503

12.58

1453.6

80773 9 18.6 - 31 33 A +36 25%

6.81 0.00 (1.50) cap

80773 } 7.3 } 0.3
40 } 7.9 } 0.3

-0019 -004 130

-0030 -015 06

-0024 -009

-030

18

Q-Pypt 2 19.3 -25 45 gm1 +20.08

HR3715

4.54 +1.68 Cape -0.10 -0.10 F
-0.15 -0.11 G-L

80874
2914
16095

48
-0009 -0.12 N30

-0010 ± 1.8 -0.12 ± 1.8 G-L → N30

+6 -21 0 .012
+6 -22 -4 .005

645-264-424 500 -010 012 +20 005 -9 -052 ✓
008-003 010-004 057 033 +15 -14 +12 012

$$\sqrt{-9 + 15 - 13}$$
$$\boxed{+6 - 21 \ 0}$$

$$-7 + 16 - 16$$
$$\boxed{+6 - 22 - 4}$$

008

12959

81039

9

213

+36

48

AS

+15c

HR3727

DAOKI

6.7

-082 -034 G-C

18 to 30 min

-956 -0243 W3 SD

-070 -030 (R12)

104211
9554
near 9554

-076 -032

~~9554~~

956-024 FHS Supp

107500

-712 074 648

+2565 -0152 -2413 +25.9 +10.4

628 944 -084

-0101 -1511 -1612 -17.3 -1.3

702 040 711

-2529 -0061 -2590 -27.8 +10.7

-070

[900-000]

1703 -9000

+36.3

Handwritten notes

1327 435

-0094
-33500

-18.6

-17.1

2.16

438-770 599 501 -076 -032 +151 -019 +9 -123
078 012 059 015 156 336 +12.0 -9 +6

$$+7 +11 -3$$

07

$$+35 -17 -14$$

02

$$\begin{array}{r}
 12470 \ 103 \\
 \underline{220} \\
 :990 \\
 \hline
 12434 \\
 \underline{11} \\
 999 \\
 \underline{11} \\
 988 \\
 \underline{11} \\
 977
 \end{array}$$

$$-1 +25 +3$$

$$+21 -9 -2$$

$$\begin{array}{r}
 12434 \\
 \underline{5839} \\
 6650 \\
 \underline{94} \\
 6556 \\
 \underline{988} \\
 5668 \\
 \underline{999} \\
 4669 \\
 \underline{977} \\
 3692
 \end{array}$$

$$\begin{array}{r}
 12434 \\
 \underline{11} \\
 999 \\
 \underline{11} \\
 988 \\
 \underline{11} \\
 977 \\
 \underline{11} \\
 966 \\
 \underline{11} \\
 955 \\
 \underline{11} \\
 944 \\
 \underline{11} \\
 933
 \end{array}$$

81309
12471

9 21.7

-37 33

+20.3

②

92828

44,105 +4

-0070 +019 569
96104

~~0804023~~
0804020

-0832

9209 244
8148 8119
0778
9420 0260

+21

3722 9 217 +64 10 6-3 122

$$\begin{array}{r} -108 -04560 \\ +1 \quad +2 \\ \hline -107 \quad -043 \end{array}$$

43

+3
-4
-5

3740

9

22.1 - 60 06

Sheet 2215

var?

8150

1009 - 106
10184 - 1002



1202-523
1110 2850
1502 0111
18.31
15.63

-0008 ± 8.3 -009 ± 6.5
7.604 3.9 0025
-0022
-0010

37
64



1604
2552
1286
1244
13.05
15.05

9.4
-60.1
-22
+1
6.0
+11.5

07.50
18 1327 1094
1100

12.70
-56
13.

1.347 1044 379

1100

208 ✓ - 8573 / 0108
9110 269 / 0020
1200 / 0031

262 - 4577 2804
250 4412 23.72
255 - 4434 23.17
264

34

RAD. VEL. : 31.500
 MODULUS : 158
 DISTANCE : 0.000
 PM. DEC. : 1.000
 PM. R.A. : -32.000
 DEC. : -00.100
 R.A. : 2.400

U : 2.750
 UB : 40.830
 d3 (U) : -0.171
 d2 (U) : 0.672
 d1 (U) : -0.720

U : -31.500
 UB : -0.022
 d3 (V) : -0.770
 d2 (V) : -0.200
 d1 (V) : 0.040

M : -7.702
 MB : -02.022
 d3 (M) : -0.122
 d2 (M) : 0.711
 d1 (M) : 0.092

| | | |
|-----------|---|---------|
| R.A. | : | 9.400 |
| DEC. | : | -60.100 |
| PM. R.A. | : | -22.000 |
| PM. DEC. | : | 1.000 |
| DISTANCE | : | 6.000 |
| MODULUS | : | 158.44 |
| RAD. VEL. | : | 21.500 |

| | | |
|--------|---|--------|
| q1 (U) | : | -0.720 |
| q2 (U) | : | 0.672 |
| q3 (U) | : | -0.171 |
| dU | : | 40.635 |
| U | : | 2.756 |

| | | |
|--------|---|---------|
| q1 (V) | : | 0.040 |
| q2 (V) | : | -0.206 |
| q3 (V) | : | -0.978 |
| dV | : | -3.052 |
| V | : | -21.503 |

44

| | | |
|--------|---|---------|
| q1 (W) | : | 0.692 |
| q2 (W) | : | 0.711 |
| q3 (W) | : | -0.122 |
| dW | : | -32.622 |
| W | : | -7.792 |

8/14/08

ASB/AL

9 22.9 -12 44 -3

9.61 560 478 210 (5)

!

81540 9 23.9 +16 55 7.9 g m2 +67.08

13013

6130

51.609 19024 +16 54 56.20 1901.2

$9.64 + 1.52 + 1.80$ (2)

$6.90 + 0.85$ (2)

107

652
112
54
275
9.1

019
628

51.590
15
605

18.320
33805
51.625
-6
8
611

-0005 -013
-0005 -0115 F154
-009 +25
+1
-006 -008 amount

608
-020

32.9

63

56.83

56.10

23
56.33

32.26

3538

56.88
-15
-26

56.47

56.40
-43

1932.9

1437.65

1055

3513

34.1

2/15

101
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197
198
199
200

81540.000*

9.000*

23.900*

16.000*

55.000*

-0.006*

-0.008*

9.150*

676.083

67.000

0.008

0.617

47.016

-0.035

-0.421

H03050

81809
6613048

9 25.3 -0.5 5-

dg1 +53.6e

(+4.2)

W6637

5.35 +0.64 70.08

+53.84(5)

+52.72(3)

72250

5.39 +0.63 5F-10

+52.34(0)

-502802

-11525 -0.805 66+

-01545 -0.815 +53.6

+53.84(5)

+52.72(3)

1.5
-pr = 0.0

+36

~~+45~~ +11 .052

+43

~~-39~~ +11 .040

+35

-36 +11 -0.52

+43

-39 +11 -0.40

~~11525 -0.805 66+~~

490

445

-225

-225±9

-078 66

-066 7

-2305 / +53.6

~~-228 / 078~~ 1.0

2.55

31 (1.5)

7(±1) 8(5)

-01512.6
-0154
-078220
-083

25 18.168 1896.9 -5 51 6.53 1894.5

802
18.970

+4.33
2.20

1534.79

|

3.694
14.705

44

25.44
29.52

18.389

41.96

74.55

18.382
16

5.60

37.3
42.8

392

697

5.50

1939.76

18.299

498

6.29

+16

348

+29

305

622

5.75

6.00

3.65

81809

9 25.3 -5 51 5.35 5.64

1403750

753.6w 418 160450 1550

-0152 -081 1130 +002

1962.16 15513 0.42 48

-0154 -081 → 1814

1963.19 1548 0.39 30

1964.89 158 0.34 413

-228 -078

1972.1 0.15 1.00w

-227

6502-5503
7598-5165

Sum 0.5

Imp 1510

0151-074

40-54

233

27

51.00
-0.22
-0.07
1.000
15.849
53.600

0.585
0.441

32.925

-0.296
-0.739

-44.275

-0.935
0.510

12.50

81688 4/10/96

13051

9 25.4

+45

39

5.6965

+38.58

6138

-0009 ± 2.0
+0000
-131 ± 1.5
-136

23,875

1989.3

+45

49

18,70

187.8

$\frac{55}{930}$

$\frac{8.15}{26.85}$

45.49

39.565

$\frac{24.058}{24.131}$

$\frac{92.4}{23.139}$

933

003

51.6
-29.10

22.50

-1.11

21.39

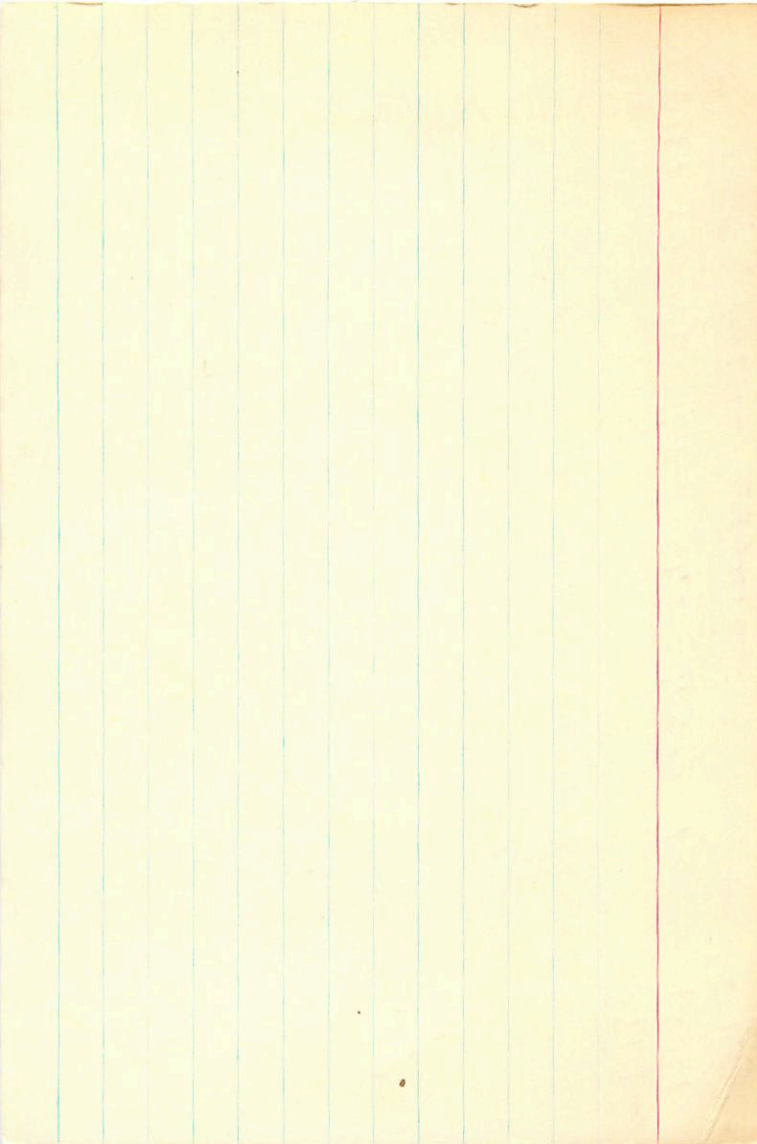
+7

28.44

5.39

1927.4

396



-0160 ± 8.7
-0158

-128 ± 7.3
-113 ✓

81702 9 25.8 +54 28 6.9 f-2 -2.38

13061
644

13 ✓

6140

46.575 1905.4 +56 27 40.88 1904.2
710
47.285
5.86
46.74
39.74

58.46
48.672
47.136
11
9
46 + 927

30.4

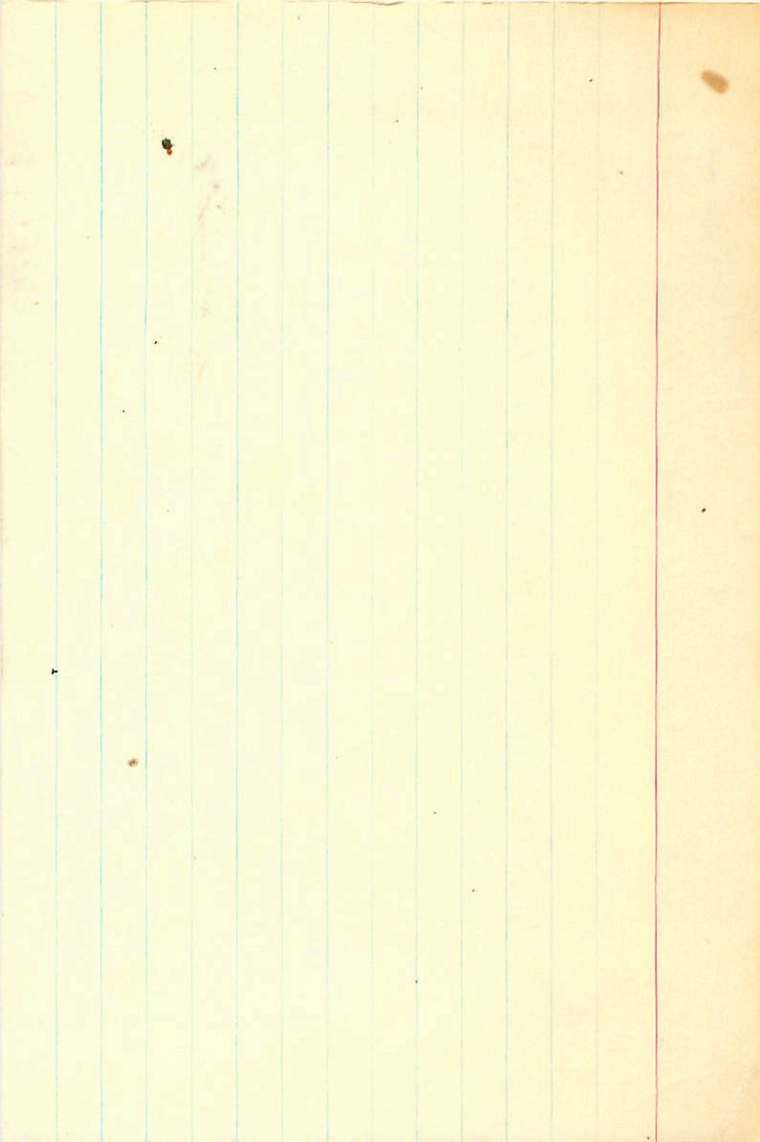
1605
46.804
-481

74.5 1427.4
-29.40
45.10
-1.22
43.88
43.11
43.99
-3.59
721
36.0
31.8

197.4
41.79
42.70
4.04

46.681
6.04

42.48
42.31
1944.67



AOS 7380

9 25.8

+9

17d F884

HR3754

.0236

w low

$\Delta m = 0.66$

$$\begin{array}{r} -4.0 \text{ Orbit} \\ \hline -5.7 \text{ a} \end{array}$$

$$\begin{array}{r} +0.53 -0.05 \text{ GC} \\ \hline +0.42 -0.07 \text{ } \frac{z}{r, z} \end{array}$$

623-752 162 997 +042-007 -5.7-001-0.9-033

-026001-033001-125-152-5.6+4.4-3.5 02

-2.2-11.1-2.5

-11.2+2.0+2.5

015

-4.1-13.6-3.1

-13.5+1.7+4.4

3 Leo +8.2274

-0022 = 2.6
-0023

81873 9 25.8 +08 24 5.9 gno +22.28

13063 HR 8756

+19.00

6142

49.498 1905.6 +5 24 26.54 1905.0

A057391

09E
1396

1.66
28.20

349
299

11^m26

29.3

49.520
23
593

27.24 1934.3

503
503
90
-06

27.28
92

29.626
19.960
49.586

59.12 1930.11

-06

30.12

525
525

28.00
90
27.10

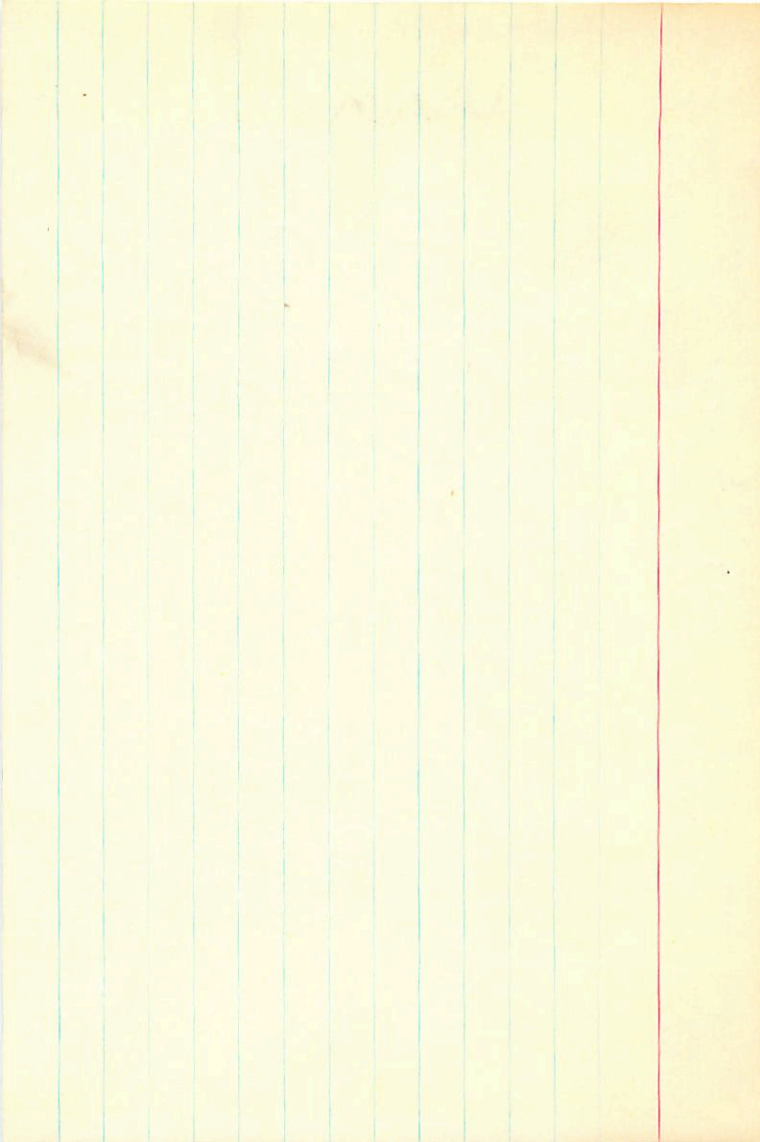
1940.36

46.540
27
562

2713

27.40

5244



③ H.O.T

201 - 5.72 3

1307

51480

A 851201-1

4R3756 9 26.8 - 40 02

4K ref 5000

Sp. Wm. and Sph. in in Am. Rev Asth. Analyph 5105, 1967
x10⁶

34.0 1935.75 0.44 4453 - 413 4088 4650 .755 58.5 43.64 436.4
0.2 .12 60 004 006 004 006 005 0.5 0.65 6.5

3.57 +0.36 +0.02 11.7-0.57

$\Delta m_1 = 0.53$

0594(6)

0596(8)

0585

(6m) - 010 471

1-02 Mr, C, B

1219 174 615 2.706 +2.5

138 (205) (571)

$\frac{52}{409} + 2.93$

$\frac{414}{2} \quad \frac{114}{2} \quad \frac{114}{2}$

$m_1 = m_2 = 1.1$

$2.9 + 1.5 = 8 - 5$

Remnant?

-0.92 +0.20

+8 < 50

HR 3763

9 26.9 -20 32

+0.003

GC 13086

+0.011
+0.018 ± 9.0

W 6147

+0.011
46.60 1902.2

154

1903.2
-0.014
-0.012 ± 10.0
-0.030
-0.0016
-0.024 +0.010

542074
656
53

-723 630 272
643 448 400
640 633 340

7.46
+20

9.068
54.458
47.34

+0.822 +0.259 +1121 +1788 +2.72
-0.049 +0.212 +0.63 +2.6 15.27
-0.785 +0.300 -0.485 -7.7 31.85

-5
1934.99

54.480

+8
54.488

47.50

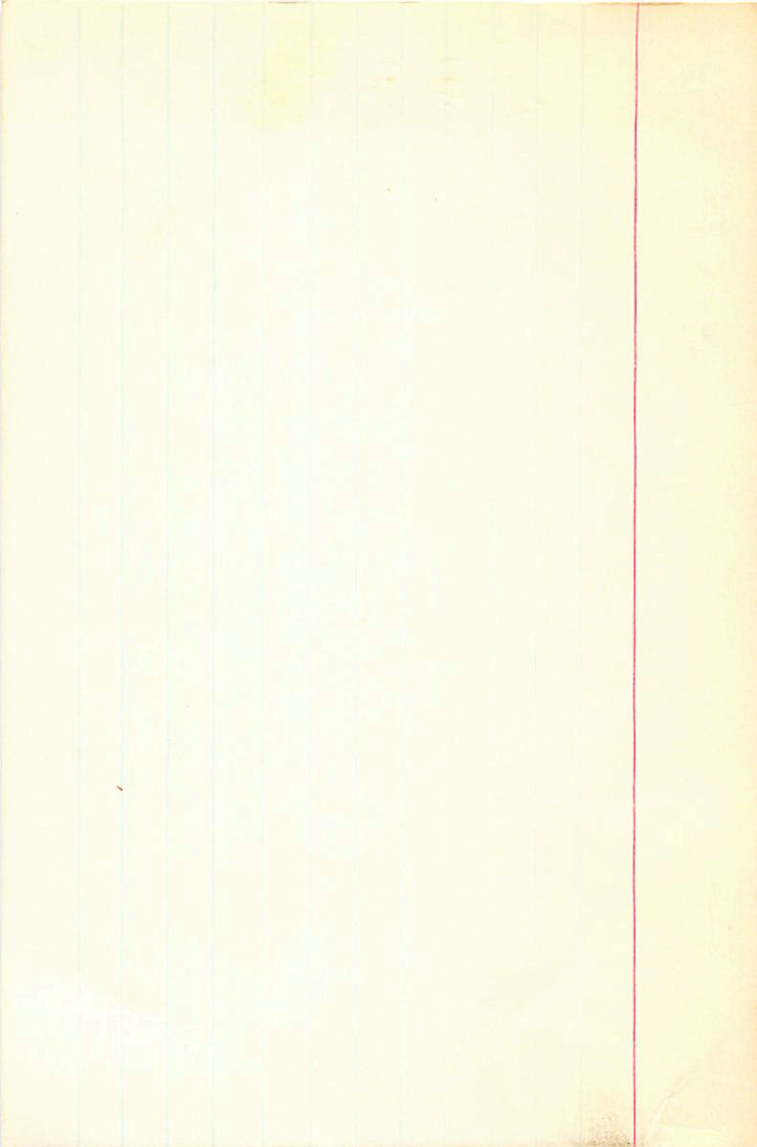
49.12
15

1903.2

47.27
+18

13
47.37

47.09



72 mi
82087

9 27.7 +33 53 6.0 968 +1.7a

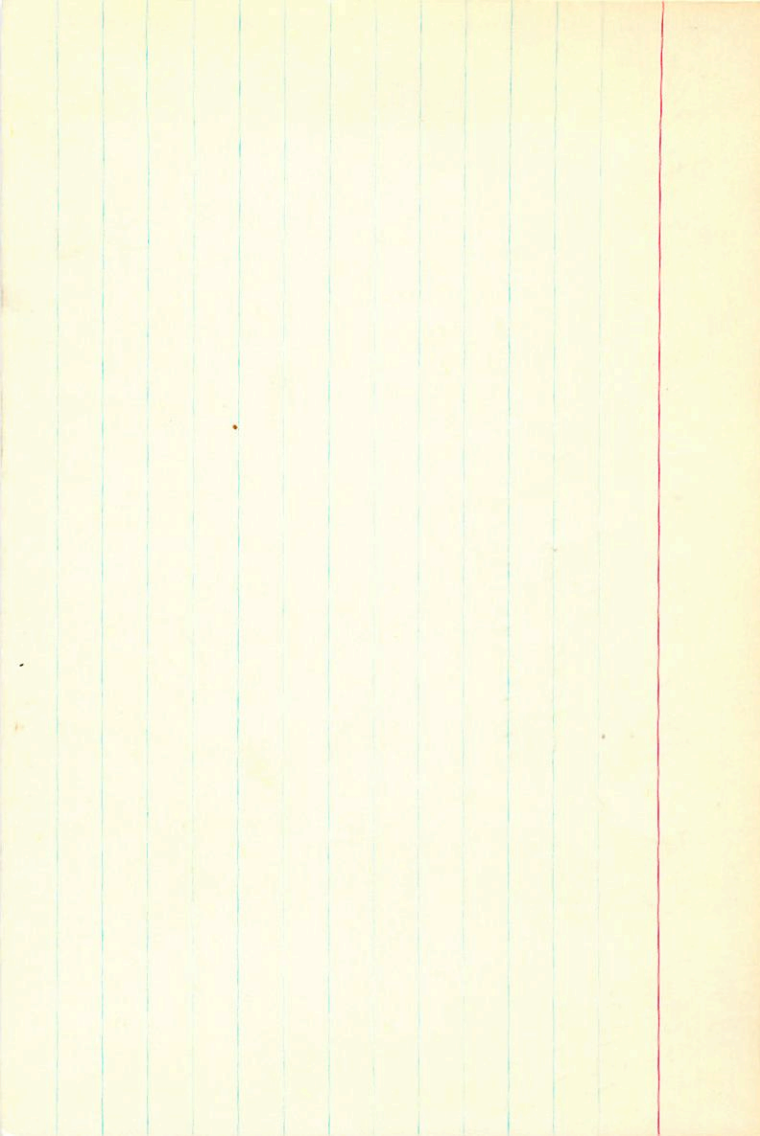
13112

6156

²⁶

-0015 -051 N30

-0012±2.6-050±2.0 6c → N30



902 9 27.8 -36 16 +26.2 (4) 65

82235 917 020 -06 +075 +2990 (1)

36.5B2 ✓ 9.55 +.42 (1.56) F2 VI -28.8 3 Desimp

388 +465
5.67

-0028 +010 CP

-2509286

S ~~Handwritten~~

9 27.9
~~11.4~~

-25-47
~~-9-07~~

+78
~~+100~~

~~000-048~~

10.93 +0.46 +0.06

10.56 +0.31 *Wannen*

Mean

-064 ± 10

+019 ± 10

-064 +019
+ 6 + 3

-058 +022
+ 1 - 2

-057 +020

-081 ± 3 +070 ± 14

-083 +071
-006 ± 6 +012 ± 16

(4)

↓

n=20

Mean FR3

Base numbers

-070

-057 +020 ± 10 ± 10

-083 ± 3 - *Mean*

-005 +012 ± 16 B

-070 +016

USO

| | | | | | | | |
|------|-----|------|-------|-------|-------|------|-------|
| -728 | 653 | 214 | +2416 | +0445 | +2911 | +582 | +16.7 |
| D58 | 361 | -931 | -0166 | +0224 | +0108 | +216 | -72.6 |
| 654 | 667 | 295 | -2270 | -0506 | -2776 | -555 | +230 |

+75

-51

-23

87191

9

284

+27

86

Am

1107

$\phi = 501$

$AM = 0.78$

Arbit



81265

9

22.5

+0058 ± 5.6
+0057

+30

43

-153 ± 6.7
-159

7.8

2g 68

-0.96

12987

6123

6710 lith

30.552 1905.8

+30 42

44.29 1905.7

256
1296

8.11
52.40

30.40

35

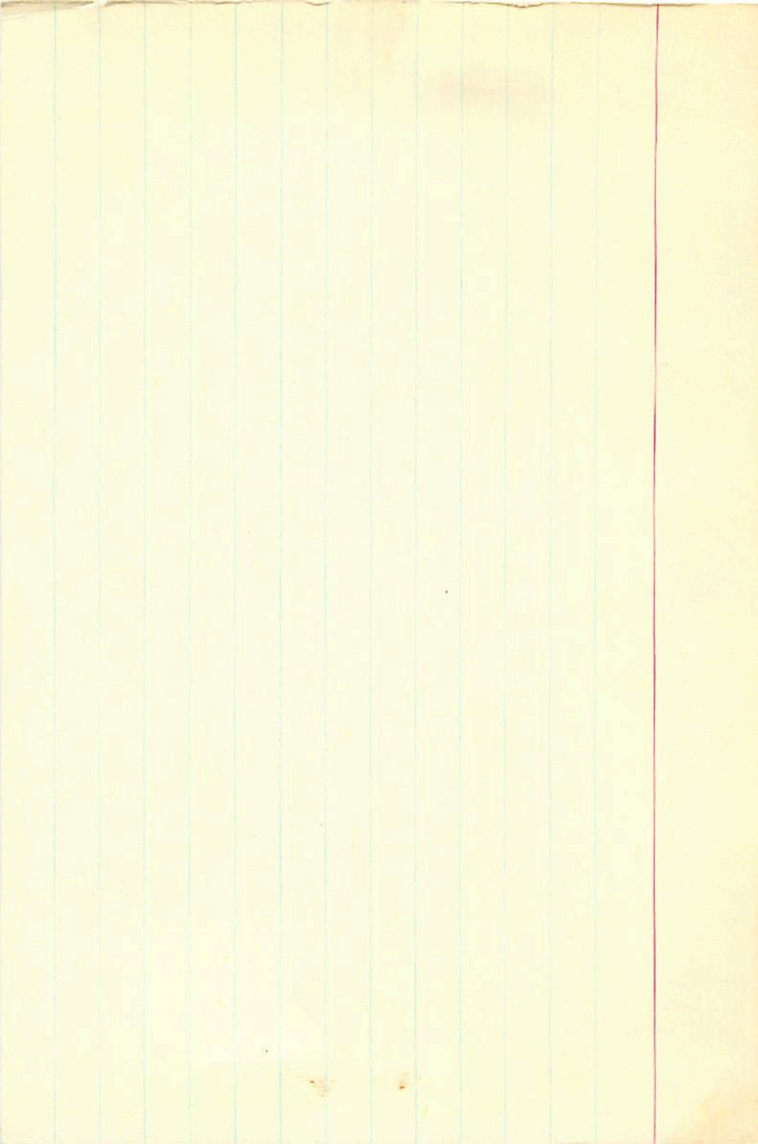
435

+139

47.6

1930.1

4
47.54
-4.86



28 Myra

81420 9 22.9 - 4 54 5.8 gms +5.36

12992

6128

47

-0008 -020N30

-0010 ± 2.1 - 0.12 ± 1.9 G → N30

150

-0009 -014

-013 -014

-716 525 458

635 684 -729

696 506 508

+0441 -0398

-0022 -0519

-0429 -0384

+0043 +0.6 +2.4 +3

-0541 -8.1 -3.9 -12

-0813 -12.1 +2.7 -9

