

ΣF_m 2 56.3 +21 08 AY -7.88

HR88718

AY -6.06
-7.02

W165910

AB 4.63 +0.04 +0.08
A22

-015 -004 6.0

A052257

18520
1659

53
130

-013 -002 N

$\Delta M = 0.34$

3592

0009 -002
-0012 ± 1.0 -002 ± 1.0 G-L 6000 N 30

360 533

(895)

Q. 2

997/5

8" $\left. \begin{matrix} 3.4 \\ 4.4 \end{matrix} \right\}$

2 56.4 -40 30

115m
A 711.9 8590

B 718.5 6

(A3)

2.91 +0.13 A3 III

18623

16620

3596

084 16 1094 7844

$\frac{-0.70 + 0.21}{-0.55} \quad \frac{1016-C}{+0.26(A)6-C}$

$\frac{-0.52 + 0.24}{-0.52} \quad \frac{1024-N}{+0.26(A)6-C}$

$\frac{-0.52 + 0.26}{-0.53} \quad \frac{1026-F}{+0.25}$

$\frac{-0.53 + 0.25}{-0.53} \quad \frac{1025}{+0.25}$

696 719 -644 760 -053 +025 +18.5 -016 -12.2 090
037 011 -038 -012 232 -125 +14.3 +10.3 +10.0 022

+20.8 +4.2 -8.1

+1.7 +12.1 -22.5

+16.9 +6.4 -9.7

+2.6 -12.5 -20.2

035

696 718 653 757 +0.22 -0.38 +31.9 -0.25 20 -135

-015 017 016 -018 014 156 +241 +17 +17

+18 +33 +7 01

25.465 1403.0

015

+17 +27 +12

+0.04 ± 46

25.465 1403.0

-0.36 ± 3.1

10013

6.67 19072

684

10016

+1.43

+5.30

25.440

+ 2

+1

50 6.32 652.66

25.442

10016 -0.42

- 22

6.10

+ 90

+018 -0.12

2.20

18482 2 56.4 400 50 42 431.56

14086

L.O

7022-035 G.C

~~5~~

+1
-037

New
+018 -042

205 pm

584 -063 809
-666 533 522
464 844 -269

+0609 +0110
-0694 -0935
+0484 -1480

+6720 +091.2
-1624 -16.8
-0996 -28.6

+25.8
+12.6
-8.6

18482.000*

2.000*

56.400*

40.000*

50.000*

0.018*

-0.042*

6.550*

204.174

31.900

0.062

0.812

38.562

-0.164

0.517

-16.924

-0.128

-0.270

-34.638

41

ST Pa

2

56.9

+29.00

Adj 11

+380606

46.7 Debit - 50 Bad (100)

+02857 -029 26 Reif

-2 +3

+026 -026

+1

8785

5848

-4777

-8112

698 776 629 777 +028 -029 -50 -015 -31 -107
 -020 013 017 -011 -043 142 -39 -29 -278 001

$$\boxed{\begin{array}{r} -77 -120 -135 \\ 184 -80 +20 \end{array}}$$

007

$$\boxed{\begin{array}{r} -91 +54 -55 \\ +3 -113 -5 \end{array}}$$

004

$$\boxed{\begin{array}{r} -32 +7 -55 \\ -24 -66 +6 \end{array}}$$

18700
1678

2 58.0

+0054±5.0
+0051
+10 40

-029±5.1
-023
6.2±007 186 +18.3±0

3616

1.169 1911.6

+1051
+0053 -026 ✓
+0052 +001
+0052 -025
+0052 20
+0052 20

+10 40 24.43 1910.2

962
1.15
25.58

1.028
+19
.047

25.00
+ .00

1934.1

39.860 12.7
21.165 5
1.040
1.005
+15
.080

26.58
59.40
26.05
24.95
+2.20

1429.55

064
+1.102

316
21.4

7.05

25.1
25.08
-.50

1.240 6.544 3410
✓ 235 100.81 8409

12700.000*

2.000*

58.000*

10.000*

40.000*

0.078*

-0.028*

7.050*

257.040

18.300

0.166

0.738

42

56.147

-0.343

0.173

-84.916

0.097

-0.653

12.908

-0022±8.7
-0020

-105±8.7
-122

18819 2 58.6 -27 50

-1.6±0.8 C, (5)

3625

7.40 +80 60E

-63 -10 -10

34.724 1899.4

-27 50 13.95 18983

$\frac{111}{835}$

$\frac{5.43}{8.52}$

38.4

30.310
 $\frac{4430}{34.743}$

10.58 1934.23

$\frac{7564}{37.8}$

$\frac{760}{-0.75}$

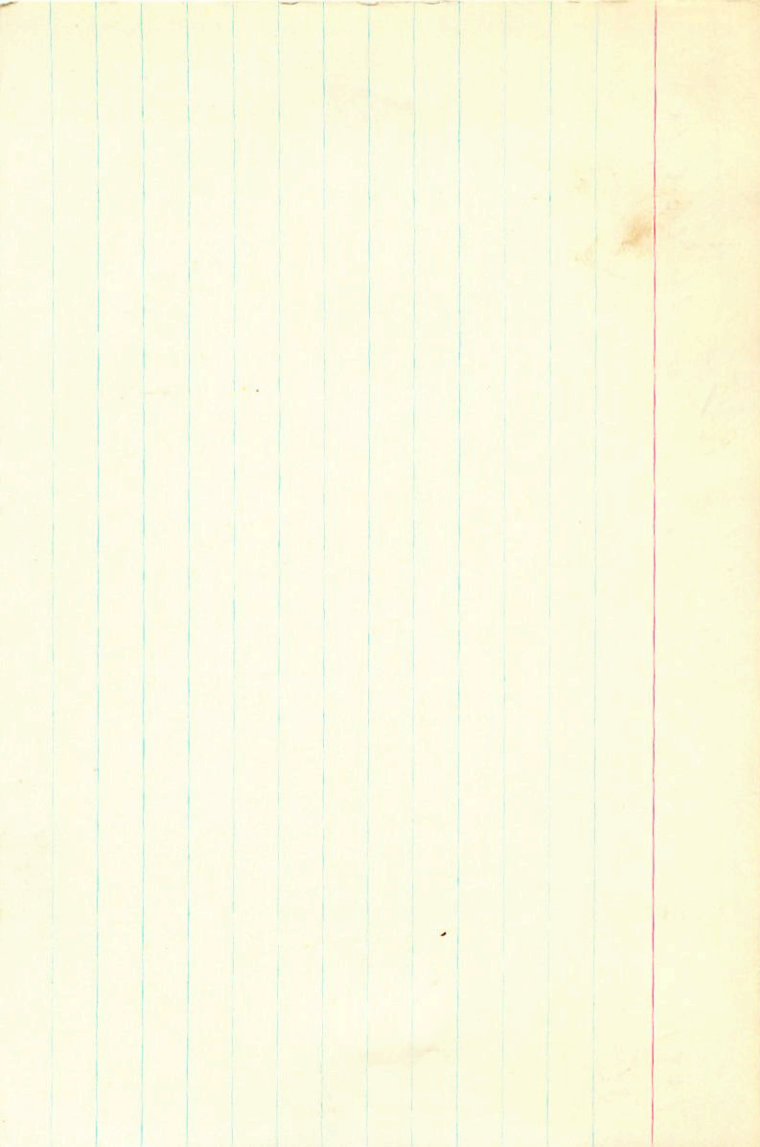
$\frac{12.25}{12.99}$ $\frac{13.34}{-4.82}$

39.5

9.017
257730
34.756
37/57

36.5
2287
 $\frac{13.59}{-14}$
13.69

1941.42



+0.9 (20)

W1682 2 59.0 726 14 km -40

B-3629 v

-0010 ± 2.4 1007 ± 2.3

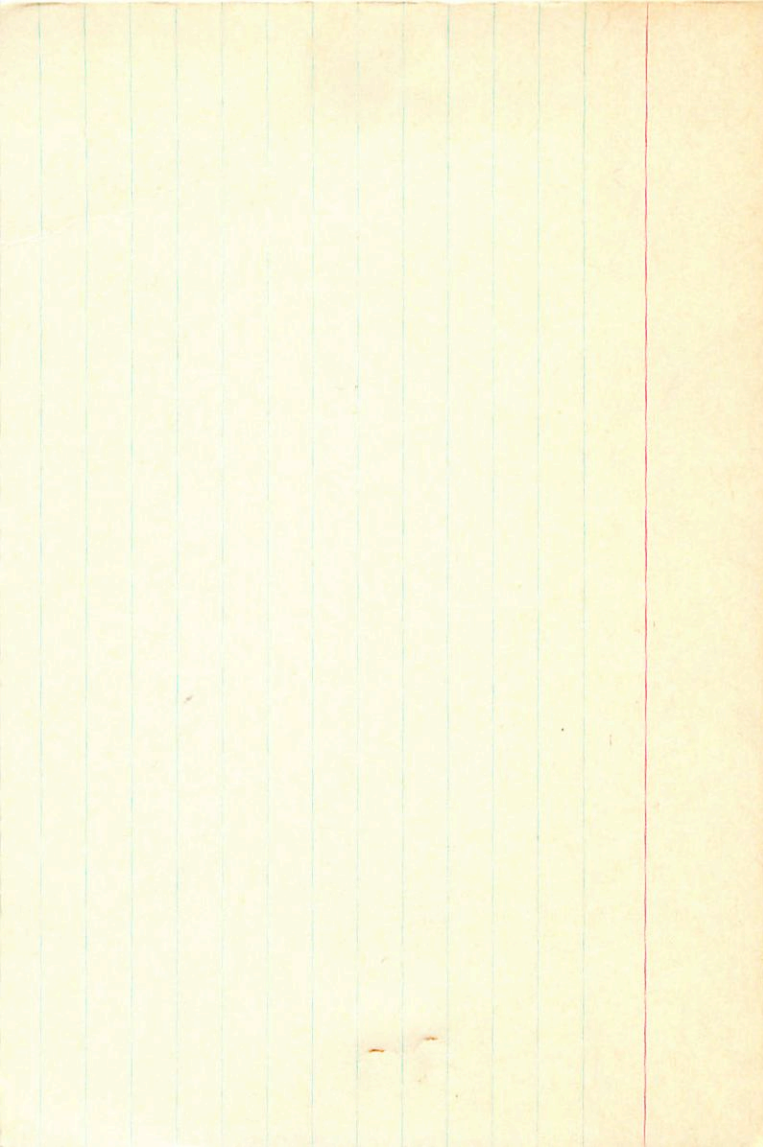
400
ARND

57.003 1899.4 SL. 92 18925

-0013 +009

4.1

570.143	809	-0473	+0061	-0412	-3.8	-3.2
-667	656	+0584	+0280	+0834	+7.8	-1.4
480	741	-0398	+0316	-0082		+1.9



9410 41 802
605 22509

T 1402

2 59.3 -50 50

2179

2.2-13.7 Va

+11
+20
13

+50.0 Jump

-015 +017 863

~~08~~
~~1023~~

Mc

11.4

~~1011~~

5ky

+4
-017 +013

cor.

+021 +010

v

43



12.20

+34

-0.829

0.034

-95.849

-124

-0.557

-0.043

153.935

216

0.044

0.096

50.000

1584.893

2240

11.000*

0.010*

0.021*

-50.000*

-50.000*

59.300*

2.000*

0.000*

63

-25.7 986

det 2 59.7 +03 5Y g m 2 248.8 4

248.8

2.48

+1.60

+2.01

17884

1688

3643

248.8

248.8

248.8

248.8

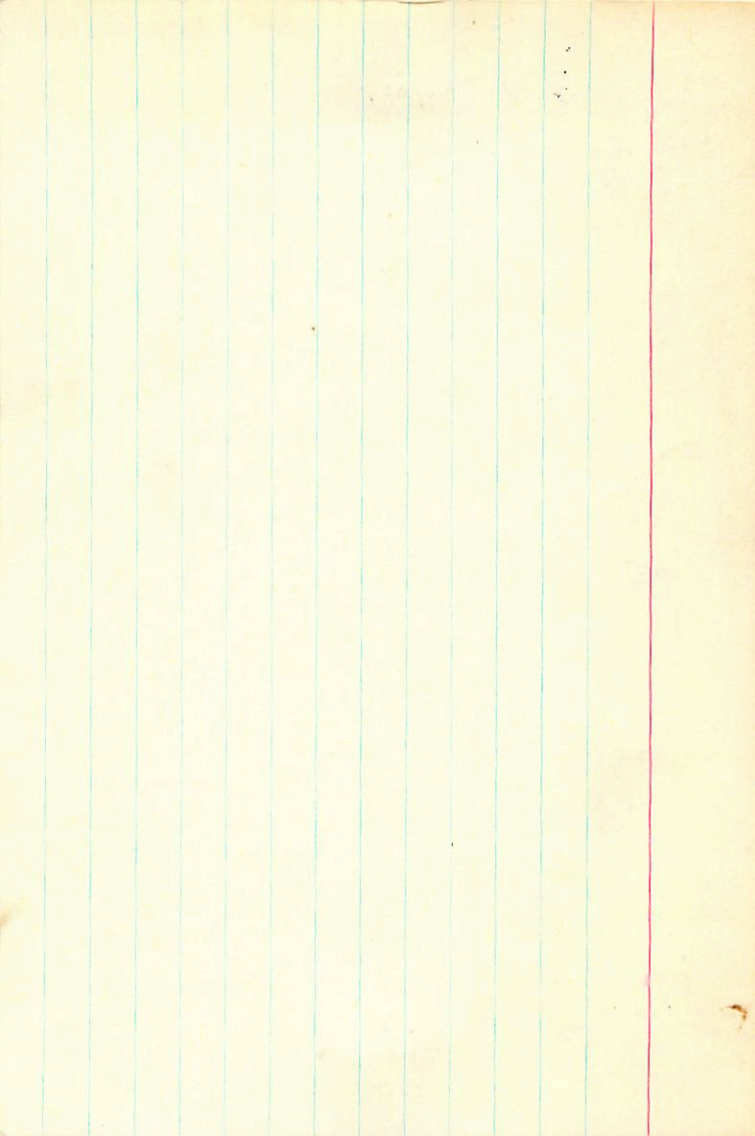
-009 -073 F103
-009 -074 G2
-009 -077 N30
-009 -078

-20 -9 +10 .0325

-28 -14 +7 .020

59 -077 N30

-0006 -077 N30
-0006 to 6 -077 N30



1891921

1084

3 000

18 24

2.53 + 33

150516

00303 - 0368

WU

9524	-7843
1184	-6303

-0431

-0404	-0394
-------	-------

0564 +1.95
 +0062 0150
 4.12

-00819 -0508 W₃50

+2.1

-00317 -0454

-0451

-0424	-0485
-------	-------

18878

3 Oct 1947 89

→ Van

25th

650 90 29

25th 1947

1004-005 (ambony)

1004-005

74

15

10

44

Handwritten text, likely bleed-through from the reverse side of the page.

Handwritten text, likely bleed-through from the reverse side of the page.

Handwritten text, likely bleed-through from the reverse side of the page.

R.A. :	3.000
DEC. :	47.650
PM. R.A. :	-14.000
PM. DEC. :	-5.000
DISTANCE :	1.500
	20
	700

18928

3 00.5 +28 04 +10.88

45

14R916

6.3

+284 -017 C

3656 087
1006 1847

1003 0000

45
70
20
10048
10048
10048

45
70
20
10048
10048
10048

(NO)

5113 0000

45
70
20
10048
10048
10048

45
70
20
10048
10048
10048

+284 -017 C
+284 -008 Y
+284 -015

570 115 814
-667 643 376
480 757 -943

2294 -0071
-2687 -0396
1934 -0466

2225 +11.4 788 +20.2
-3083 -15.8 +4.1 -11.7
1468 +7.5 -4.8 +2.7

2225 +11.4 788 +20.2
-3083 -15.8 +4.1 -11.7
1468 +7.5 -4.8 +2.7

10057 -0118

762917 0774

10047 0101

10047 0101
+11.9 4.57

0754

6044-2444

10047 0101
+11.9 4.57

510-015
076-015

$707 \quad 707 \quad 471 \quad 882 \quad +0.84-0.15 \quad +10.5-0.07 \quad +5-0.62$
 $-0.61 \quad 0.05 \quad 0.61-0.05 \quad -2.65 \quad 3.13 \quad +9.5 \quad +7 \quad +7$
 $-19 \quad +35 \quad -1 \quad 01$

$+0.064 \quad -0.17$
 $+0.053 \quad -0.09$
 $30.649 \quad 5.1 \quad +0.058-0.13 \quad 29.80 \quad 3.1$
 $\frac{287}{412}$
 $+0.057 \quad -0.118$
 $\frac{.70}{30.60}$

$-6 \quad +22 \quad +2 \quad 02$
 $\boxed{+20 \quad -10 \quad +2}$

$30.679 \quad 57.55 \quad 30.21$
 $\frac{71}{644} \quad \frac{.70}{52.85} \quad \frac{-10}{30.11}$

18424

3 00.0 15 24

$-0371-037.7$

9443	-7560	1900
1070	-619-	0525
		0009

+00695 6.5 -002449
-006
6.25.2 +0070

18975 3654 3 00.5 -02 17 d f 7 +35 a

AOS2316 2.5 +00695 -0045 +094 -0036
+0067 -0055

W1685 9.5 29.500 1893.7
8.6 -388
112

-2 16 55.21 1890.0

1004
102-009
5.03

13.529
15.842
29.381
40/32
40/30

4.34
45.55 - 1933.46
55.55

480
37.4
47.4

55.00
55.00

1411.34
57.40
56.40
55.02

59.1106
29.458
49.568
53.00
53.00
53.00

707707 - 0¹⁰1 +094-003 +35. 0-6 -013

5

-066 0 066 0 -313 313 +35 +25 +25

40.7 m.

+13 +37 -1

025

570 506 647 +2837 -0143 +2694

+11.0 122.6 = 33.6

-667 745 004 -3320 -0212 -3532

-144

02

450 434 -762 +2389 -0123

+9 +41 -1

+36 -15 -14

015

C = +017 -024 Am

+4 +46 -1

[40 -19 -10]

013

+1 +49 -2

1870
1871
1872
1873
1874
1875
1876
1877
1878
1879
1880
1881
1882
1883
1884
1885
1886
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1888
1889
1890
1891
1892
1893
1894
1895
1896
1897
1898
1899
1900

1895

5 5 5 5 5
4 3 3 3 3
4 5 5 5 5
4 5 5 5 5
1 3 3 3 3
2 1 3 3 3
1 3 3 3 3

Handwritten signature or initials.

5 5 5 5 5
4 3 3 3 3
4 5 5 5 5
4 5 5 5 5
1 3 3 3 3
2 1 3 3 3
1 3 3 3 3

5 5 5 5 5
4 3 3 3 3
4 5 5 5 5
4 5 5 5 5
2 5 3 3 3
3 3 3 3 3

5 5 5 5 5
4 3 3 3 3
4 5 5 5 5
4 5 5 5 5
1 3 3 3 3
2 1 3 3 3
3 3 3 3 3

19019

3 011 + 5 56

+ 247 122

6, 276 + 52 = 04

40, 576 + 046

223 46

7226	9987	236
1829	0618	031

224 46

225 46

226 46

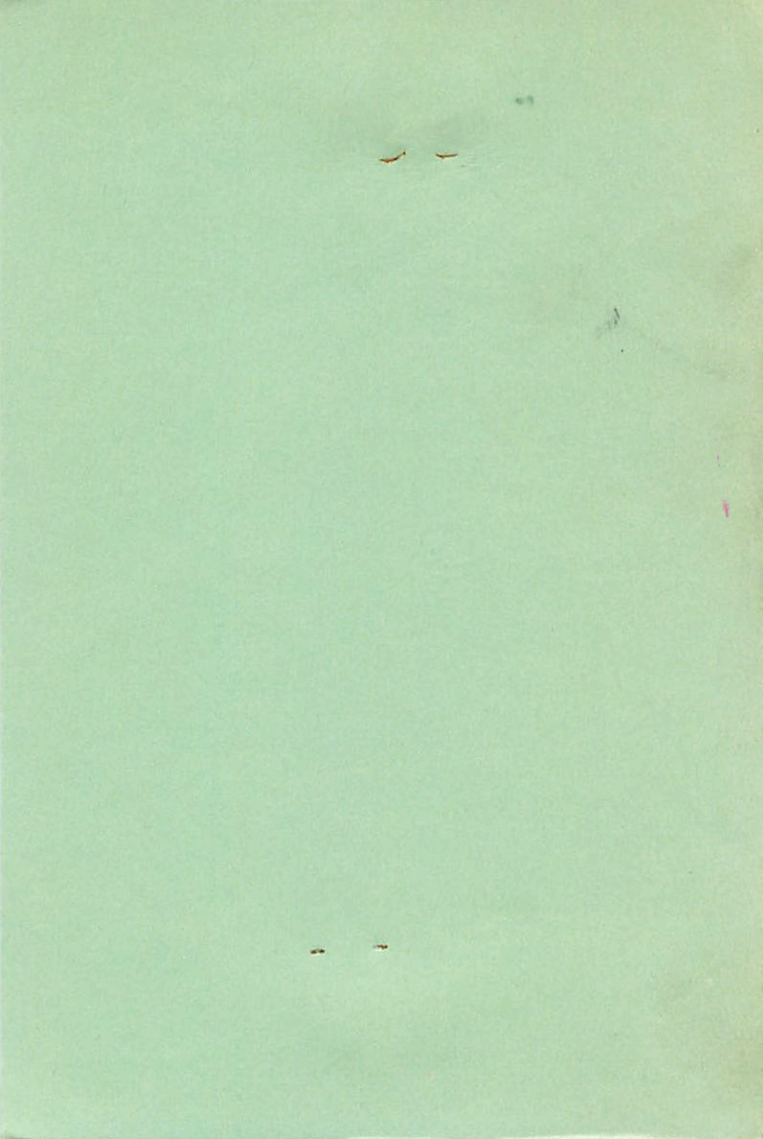
R.A. : 3.000
DEC. : 5.950
M. R.A. : 234.000
M. DEC. : 46.000
DISTANCE : 2.750
MODULUS : 35
D. VEL. : 24.700

q1 (U) : 0.570
q2 (U) : 0.412
q3 (U) : 0.711
dU : 718.400
U : 43.053

q1 (V) : -0.667
q2 (V) : 0.737
q3 (V) : 0.107
dV : -574.862
V : -17.754

q1 (W) : 0.480
q2 (W) : 0.535
q3 (W) : -0.695
dW : 646.517
W : 5.774

4b



1000 ± 14.2

-0.36 ± 11.3

+0.26

18991 3 01.9 +55 53 6.5 68 -10.9 6

1706

3681 55.117 1909.4 +55 52 32.11 1908.9

10013 -626
+1 -1
+0114 -027

3.39
51.560
559.959
55.152
160 562

1012-027

29.9

194
+0

55.233
-32.5
55.227
-30
19

1.48
33.59

1926.2

40.0
54.25
34.25
3-1.41
32.80
32.34
3+1.6

183

3294
-63

11990

1945.83

23.19
-2.4
20.79

1946.87

32.98
-1.16
32.72

39.3

30.4

47



15771.000*

3.000*

1.900*

55.000*

53.000*

0.012*

-0.027*

5.000*

100.000

-10.900

0.068

0.776

-1.626

-0.089

0.630

47

-15.749

-0.084

-0.036

-8.018

Per

HR921

HR9058

33 185
+160
+166

03 02.0 +38 39

+0110
+0113
+0110

-1021
-103

17.130
-3.88
4.77

+130 +28.2
-103

142
161
-2
461

HR9114

HR9110

F144 E=0

156
1245

E=+00

Per 336 +140 +146 -3.7 +55 -47 -16 +130 +28.2 60±
HR924 185 +125 465 +37 -71 -12 -106 HR9114 -178

48

5
B
17

10

2
10
10

3 Nov

91.000+

8.000+

2.000*

3.000*

9.000*

0.138*

0.103*

4.72

4.650*

88.1

85.114

28.286

0.367

6.825

156

54.519,81

-0.688

0.484

-47

-44.878

48

-0.102

-0.292

-17

-16.921

22

721.000*

3.000*

2.000*

38.000*

39.000*

0.130*

-0.106*

4.720*

87.902

28.200

0.368

0.025

55.594

-0.696

0.484

476

-47.503

-0.114

-0.292

-18.234

p Pm 3 02.0 +35 39 5m4 +28.2 T

921

3.2-3.8 +1.69 m4 II

m4 II - III

+130	-104 FR3
+132	-106 GL
+130	-107 M30
<u>+131</u>	<u>-106</u>

185 155
 197
 162
 - 8.5
 .49
 484

+39	-14	-13	.025
+50	-36	-14	.014
+56	-45	-16	.012
+47	-30	-14	.076

24(20)
 30M(6)
P=6

+131 +2872

-106

563-646 826
-667 564 989
488 824 -287

+3496 +0231
-4142 -2834
+3030 -4140

3727
-7726
-1110

+373 233
-718 137
-11.1 -8.1

+686
-5811
-14.2

19058
C23682
W1707

3 02.0 +38 39

Semi-regular 3.2-3.8

3.2 }
3.5 }

M4111

+1.70

7635

+380630

7114 +28.27

+28.2 L(4)

+19.1 U(1)

+29.1 w(1)

w(-0.1)

+0111 -107 N30

+0113 ±1.0 -105 ±1.2 GC low to N30

+57 -47 -16 -0.115 ✓
+56 -45 -16 .012
+50 -36 -14 .014

+132 -106 GC
+130 -107 N30
+131 -104

184
35
46
1.737
-7

2A(29)
30 M(12)

1.70 +1.265
35
132
162
3

1.84 +1.34
1.94 +1.25
1.80
1.94
852
1.166-16

8 PL

713 701 624 782 +131 -106 +28.2 -066 +17.6 -353

-093 047 092 -046 -223 659 +15.5 +15.8 / -6.8 +18.7 -11.01

65.8 -48.7 -12.9

+0.6 +59.7 -8.6

+48.6 -32.9 -14.2 / 615

-0.6 719 -5.5 / 61 52.5 -4.0

-33 -36.6 -8.8 / 03 -26.7 -6.5

8.9 -133 -5.5 / -0.5 -9.7 -4.0

958A
19400

(120)

+0056±1.9
+0048

+018±1.9
+015

0312+
\$11.88

3 02.1 -72 06

5.5 B9

\$11.88

1710

-064 III 812 2709

105 545 70145

3687

9,266

51.60

1899.8

055,10045

12.119

258

-90

055,10045

924

888

52.50

1939.08

8.159

-10

52.16

+23

52.26

95.45

8.182

47.7

47.7

436
318
+210

952

952

952

952

8.254

9030

7123

51.35

1954.37

1296

6968

-0071

417.9

14296

0281

1800

1954.37

1954.37

49

R.A. : 3.050
DEC. : -72.100
1. R.A. : 0.000
1. DEC. : 0.000
DISTANCE : 0.000
MODULUS : 10
VEL. : 0.000

q1 (U) : 0.561
q2 (U) : 0.788
q3 (U) : -0.254
dU : 0.000
U : 0.000

q1 (V) : -0.667
q2 (V) : 0.249
q3 (V) : -0.702
dV : 0.000
V : 0.000

q1 (W) : 0.490
q2 (W) : -0.563
q3 (W) : -0.665
dW : 0.000
W : 0.000

40

HRG23

3 021

440

24

3.44

120 PJ

-34.18

-051 4002 Q.C.

$\frac{+1}{+003}$

25

-1,488

-0,267

-0,106

-0,165

0,501

0,169

-41,797

0,823

-0,137

-34,100

100,000

5,000*

0,003*

-0,051*

24,000*

40,000*

2,100*

3,000*

93,000*

50

19165

3 02.8 +27 30 +87 R

+270475

8.45 +0.49 -0.01 FC \bar{U}

S = +04

+063

0 > Y

+3

+060 -050 Y

+17

+3

+064 -054 Ritz

716 698 462887 1064-059 +87 -027 40-246
-046 019 045-019 -125 303 +77.2 +54 +55 .01

+41 +85 +15

[+81-7-41]

+36 +98 +5

007

3L

19258
+110434
1717

3 03.6 +11 28 7.3 gMI -7438

+0014 -004 Cu 50
-0048

~~+022 -008~~

7.22 +1825 +2.23 ①

5.50 +0965 ③

552 127 428 410 965

~~530 408 773~~
562 54 4.10 38

935

51

19258.000*

3.000*

3.600*

11.000*

28.000*

0.022*

-0.008*

8.350*

7.9
380

355

467.735

-74.300

0.045

0.756

39

-40

-34.928

-0.097

0.167

49

-47

-57.837

51

0.029

-0.633

458

+57

60.408

925

3 01.8 - 7 48

19107

3677

5.26 + 0.21 + 0.07 C

+ 114 + 189 + 899 000 SOC

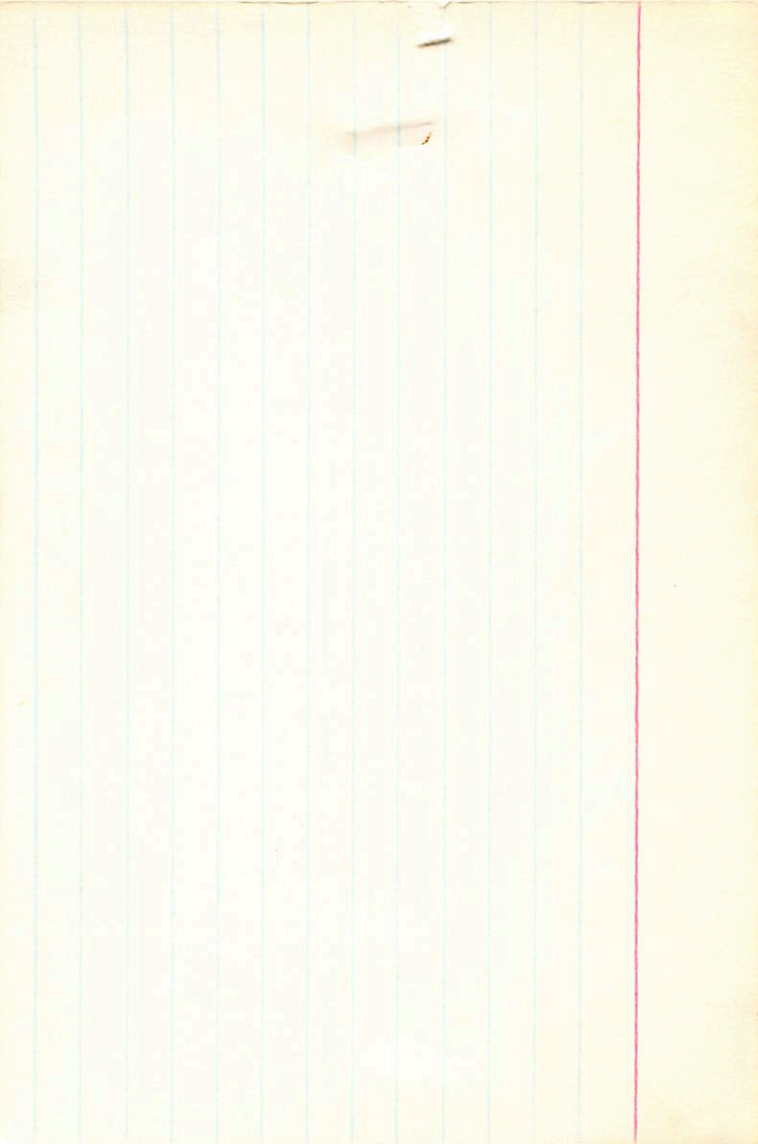
new

(66.06)

4 9089
+ 7
096

42.77
+ 5
√202

+ 15



19257

3 04.6 +52 49 +3.5

644 +59

40161 -105 Monday

[132 -105]

242
-108

2115
+315



52

19495

0 05.6 +13 21

+2622 (2)

+120443

8.78+1505+160 (2)

81040.59 (2)

+25.2/Supin

772 79

0 ~~extra~~

002-046-Furton

49

772

746

749

677

666

666

minimum

-0019 -046

-0019 -042

-0020 -041

-025

-026 -044

-027 -043

-028 -042

-029 -041

→ minimum

←

(5)

1.0

84

3

-122.345 611-

-0.607
-0.135

-120.262 711-

0.185
-0.157

-34.650 -33-

0.773
-0.068

25.200
794.328

6.9
1.6

9.500*
-0.046*

0.000*
26.000*

13.000*
6.000*
3.000*

53

19495.000*

kr

-170.162

-0.195
-0.609

-44.471
0.185

-0.062
-90.892

0.772
-0.135

24.25
24.25

54.5
54.5

kr

kr

19467

3

04.9

-13 8-7

1947
1948

00034 - 2625 7145

6.96 401 583 398

~~3 Pu~~

~~3 04.9 +40 46~~

~~+4.0a~~

HR934

+3.7 orb

19354

64

+006 -001 GC

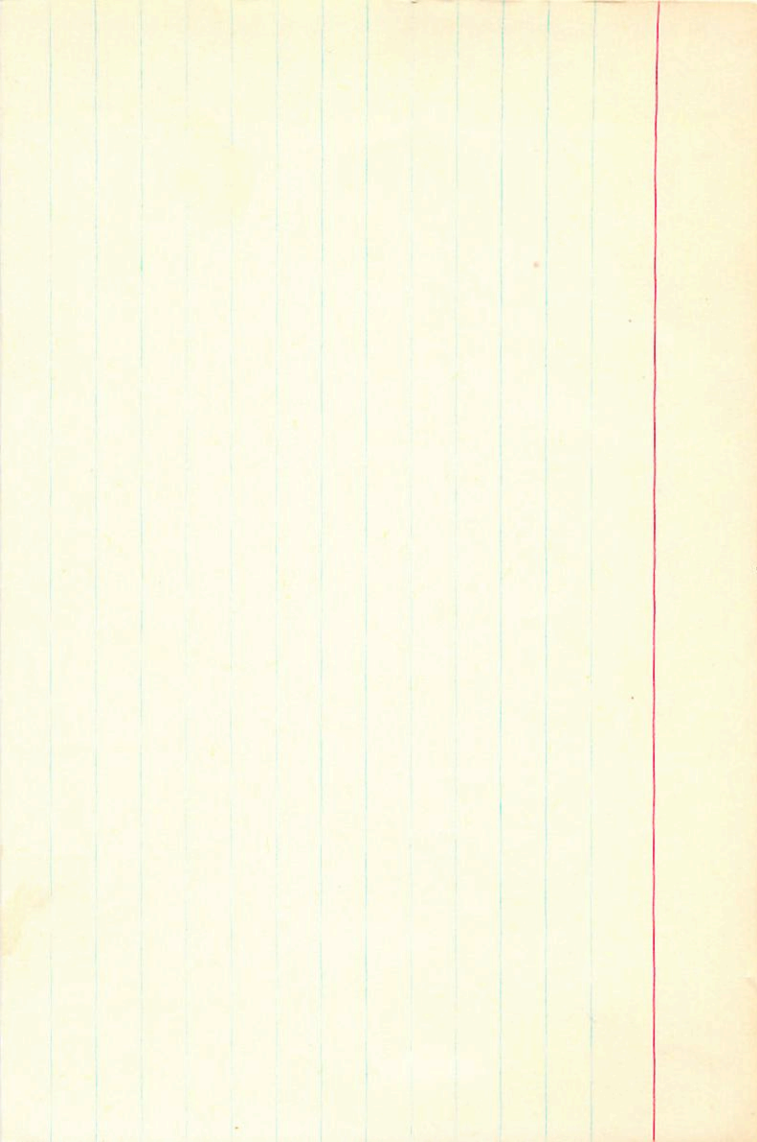
173/

+0003 -001 N30

3733

+0005 ±0.8 000 ±0.8 GC com 4 N30

+3 +2 0 .043



1877 3 038

181 16

(906)

-039.7 -019.7

7502	-4449	0396
1827	5600	0101

P3

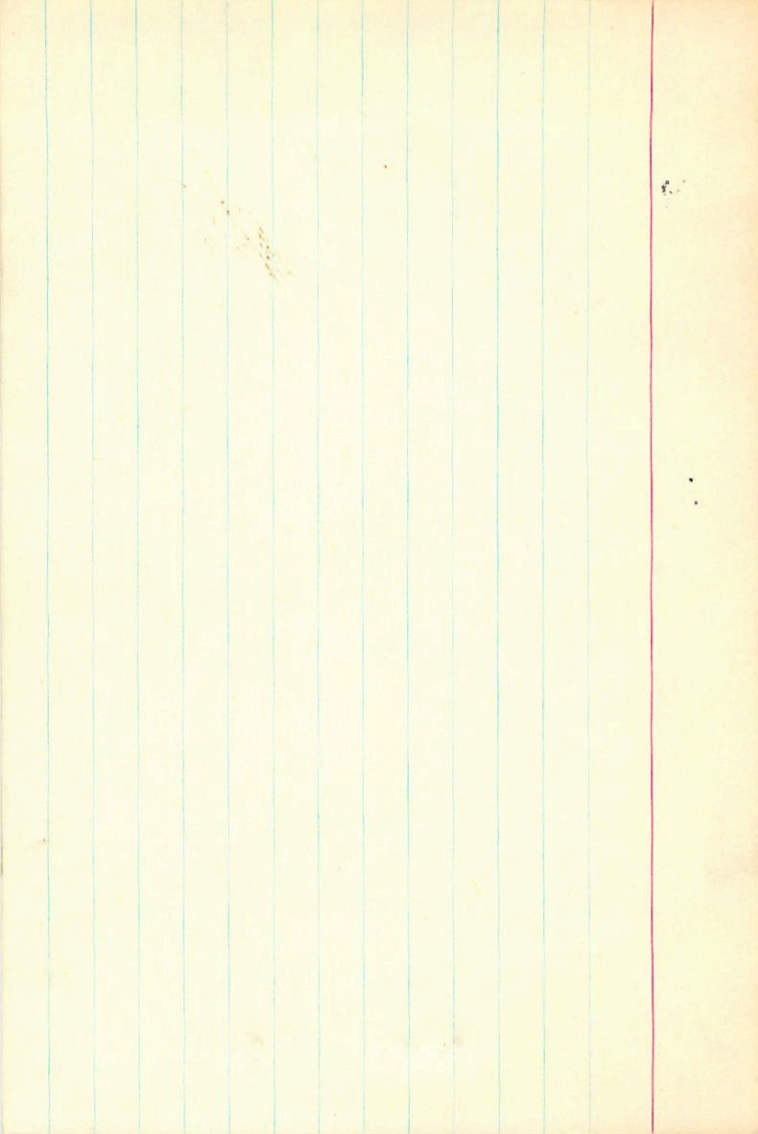
Tu Pr 3 05.4 +53 00

-3804w(2)

1733

P=0.61

+02051=0445.2



18.114 00.8
 $\frac{876}{17.238}$
 +0725 +057
 +0169 +050
 +0114 +061
 $\frac{+0114}{1055}$ 47.01
 $\frac{-3.00}{50.01}$
 923

28.14
 $\frac{+0712}{+01726}$ +0559

3490

28.857
 $\frac{-11.010}{17.347}$

$\frac{+0712}{+075+053}$

$\frac{8078}{+1578}$

$\frac{17.347}{-323}$ 0

~~488~~
 4810

421

$\frac{48.62}{713}$

~~18.13~~
 0.24

~~-25~~
 +7333

$\frac{48.44}{+03}$

$\frac{17.680}{+011}$ 0

~~691~~

~~-25~~
 +7333

$\frac{48.44}{+03}$

~~19.184~~
 $\frac{-274}{19.55.92}$

19.55.92

~~46.570~~
 $\frac{+7}{46.43}$