

+8°231 8 48.0 +8 03 year dmo

Not good

	M(I)	π (M)
9.08 +1345 +120 (2)	+7.06	0.54
8.12 +10.62 (3)	$\frac{825}{1.9}$	0.58
9.50		
$\Delta(13-11) + 0.35$		
$\Delta(11-13) + 0.85$		

-10.0 -0.56 -0.05

du \rightarrow -3.9 +5.4 -8.7
+2 0 -2

-993670

8

47.6

-9

37

disc

9.70 +107
9.11 +0375

+082

(3)

D (R-V) -05
D (M-R) +045

13501840

8 50.7 +35 26

div5

led

42118.1

9.28 + 1.12 + 1.08 (2)

8.50 + 0.475 (4)

37M(8)

$\Delta(B-V) + 0.7$

$\Delta(V-I) + 0.6$

M(I) H(1/4)

+6.52

862

1.6

1.50

.0488

050

442.2 -185-245

n v w

+42.4 -32.2 +8.4

+5 -13 -8

+42.1 -31.4 +9.9

→

4000

77175 8 58.6 +15 28 88 1106

42156 $\Delta V = 7139 = 0$
5" $\Delta T = 0$

8.71 +1.30 +1.22 (2)

7.98 +0.55 (3)

733
-758
80

M(I) $\frac{6.80}{808}$
M(II) $\frac{1.25}{1.25}$

$\pi(10A)$
2555

$\Delta(B-V) + 0.4$
 $\Delta(U-B) + 0.6$

-12.6 -101 325

M V W
-10.6 -18.9 -22.5
-2 -14 -8

12191444

12146

21114

57112

55.7

+20

44

1125

9.26 + 1.11 + 1.01

(D)

-802582

9 043 -8 37

dmo

Nadyak

$$9.51 + 1.425 + 1.255 \text{ (2)}$$

M(T)

$$8.51 + 0.685 \text{ (2)}$$

$$\begin{array}{r} +7.25 \\ 7.88 \\ \hline 0.58 \end{array} \text{ (part)}$$

$$\Delta(B-V) - 0.25$$

$$B(U-V) + 0.05$$

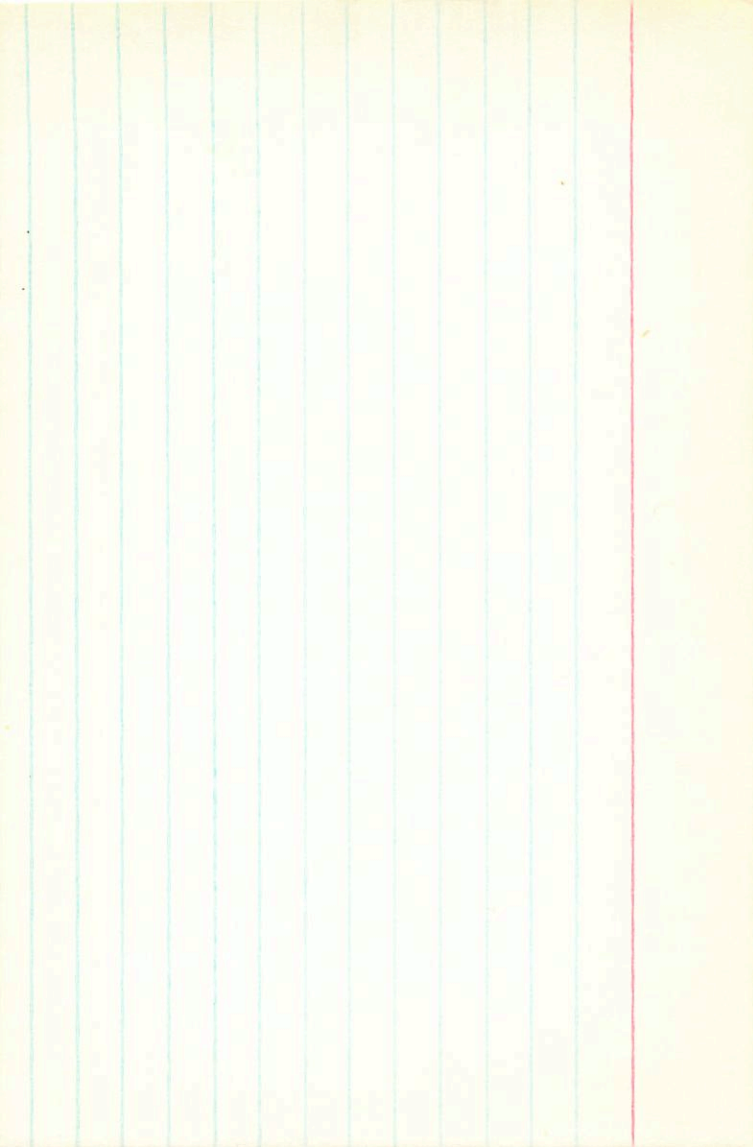
+219

u v w

+32.2 -300

$$+35.4 -16.0 +7.0$$

$$+15 -7 -5$$



4007

AL 27.23636 9 06.1 +27 38 dmo

Y2181

10.26 +1.245 +1.225 (2)

M(±) π pt)

14M(5)

9.48 +0.53 (2)

✓ 4.74
895
2.21
0.36

Δ(B-V) +0.55

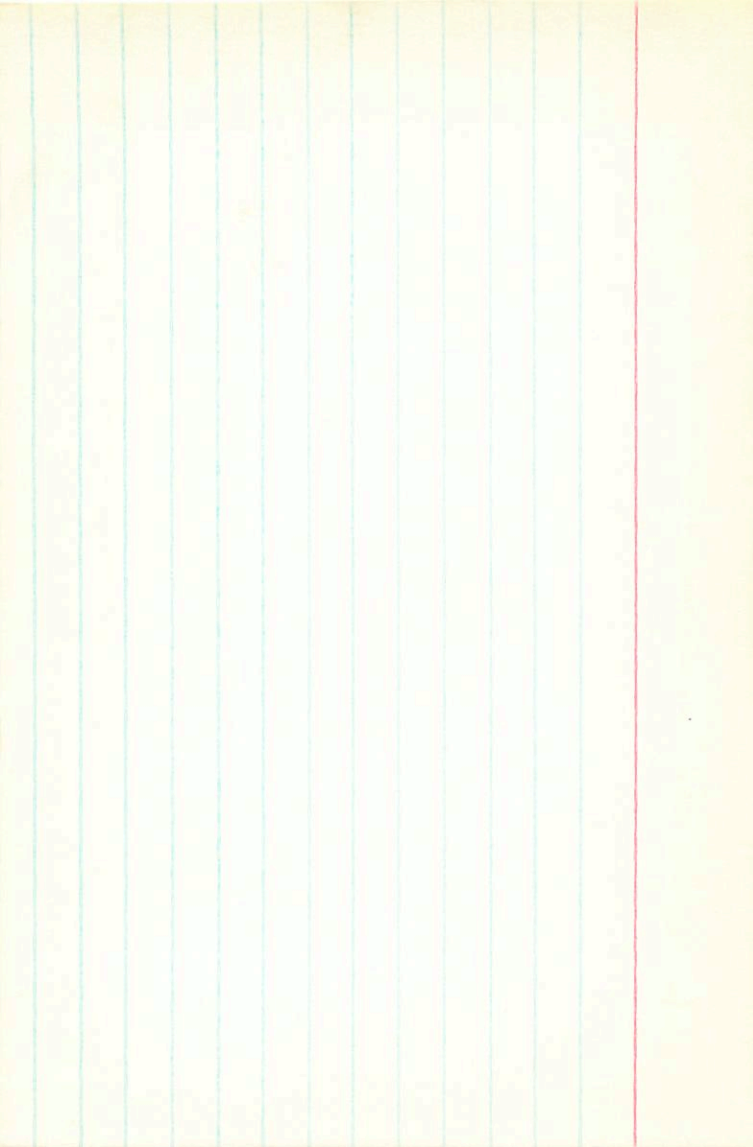
Δ(U-B) +0.25

+19.0 -205 -031

M V W

✓ +30.2 -8.3 -8.0

+6 -1 -7



79969

9 14.9 +28 47

1832

old

AD57287

$\sigma_m = 0.10$
old

7.22 +0.89 ± 0.80 (4)

6.80 +0.38

6.42
7.55
7.19

$2(13-1) + 0.5$

$6(14-12) + 10$

$n(\pm)$

5.80

7.17

$\frac{183}{1.27}$

7/107

0.56

~~0.65~~

585(28)

49A(20)

75V(12)

50m(4)

50

180

+0.60 - 521

X

n v w

-23.7 -39.2 -15.3

-6 -24 -2

(Gut)

Year

80768 9 21.8 +76 09 dNS

42231

566(7)

$$9.03 + 1.19 + 1.18 \textcircled{1}$$

$$8.30 + 0.465 \textcircled{2}$$

$$\Delta(B-V) = 0.2$$

$$\Delta(U-B) = 0.6$$

M(L) π (pt)

$$+6.48$$

$$-7.84$$

$$-1.36$$

$$0.525$$

$$0.535$$

u v w

$$+21.1 -12.1 -21.9$$

$$+14 -4 -10$$

$$\rightarrow +20.6 -12.0 -21.0$$

$$-7.0 -36.0 -100$$

+810297

9 21.1

+80 49

1/2221

9.30 + 1.23 + 1.23 (1)

566(10)

8.60 + 0.465 (2)

$\Delta(13-v) - 6$

-21.4 + 0.61 - 923

25

4000

82885 ✓ 9 32.7 +36 02- 6814-5

+2280 14^m 4¹¹ 5.42 +0.77 +0.44 (3)
5.07 +0.25 ~~5.07~~

120A(20)
107m(8)
64wr(4)
112S(6)
107

M(I) 7 (net)
51.10
48.2 10985
~~28~~ .114

Δ(B-V) -0.55
Δ(V-R) -16

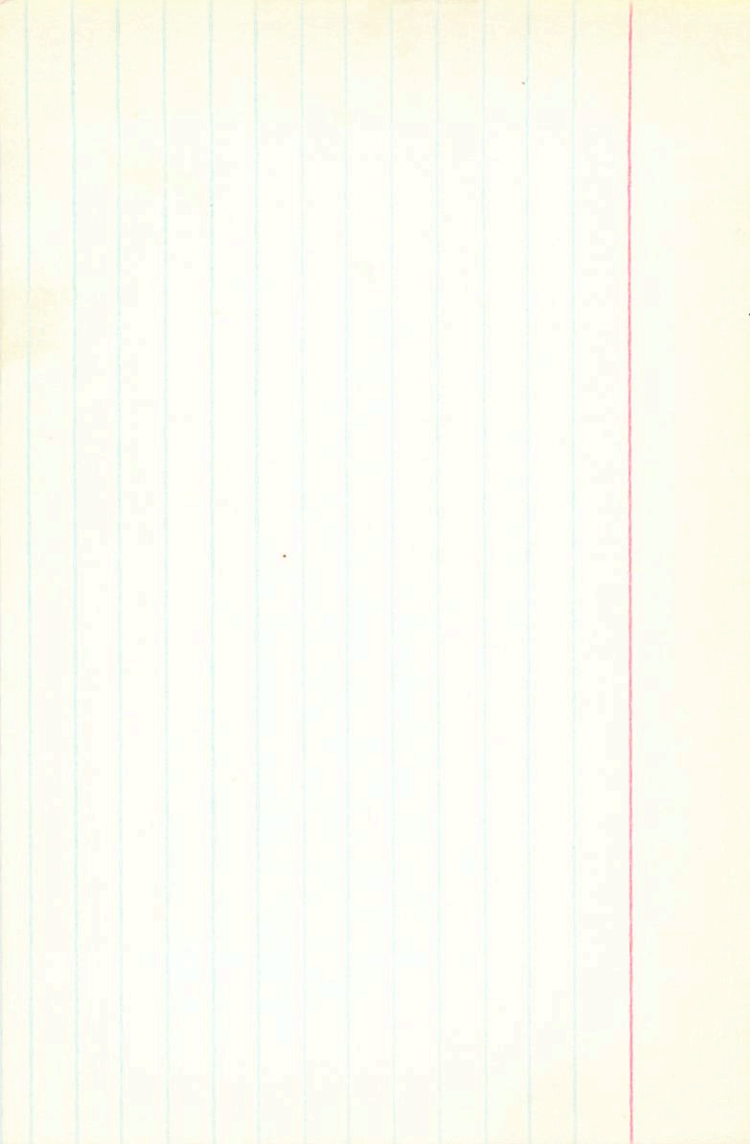
1

+31.9 -14.8 -12.6

+23 -14 -22

+28.7 -12.8 -5.3

→



+23°2121

9 34.4 +22 55

Not yolo

9.50 +1.295 +1.28 (2)

865 +0.52 (3)

m(I)

+1/100

+6.71

$\frac{813}{142}$

$\Delta(B-V) -0.15$

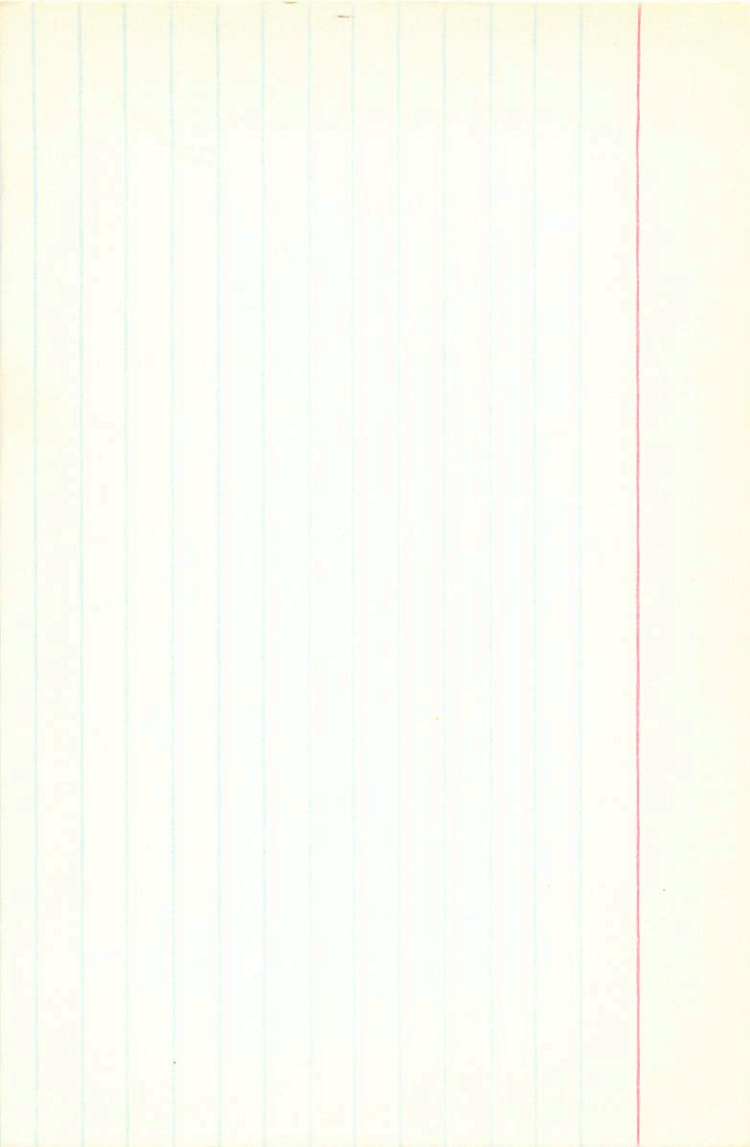
$\Delta(U-B) -0.5$

0.52

-33.7 -130 -170

✓ -16.8 -5.4 -35.6

+2 -8 -6



84035

9 40.3

+42

57

dir6

42304

6.8 A(20)

6.8 m(5)

$\frac{674.6(6)}{65}$

$$8.14 + 1.14 + 1.15 \text{ (2)}$$

$$7.46 + 0.405 \text{ (2)}$$

$$\Delta(B-V) = 0.65$$

$$\Delta(U-B) = 1.85$$

m(I)

$$\frac{889}{706}$$

171(A)

$$\frac{144}{1.17}$$

$$\frac{0625}{058}$$

m v w

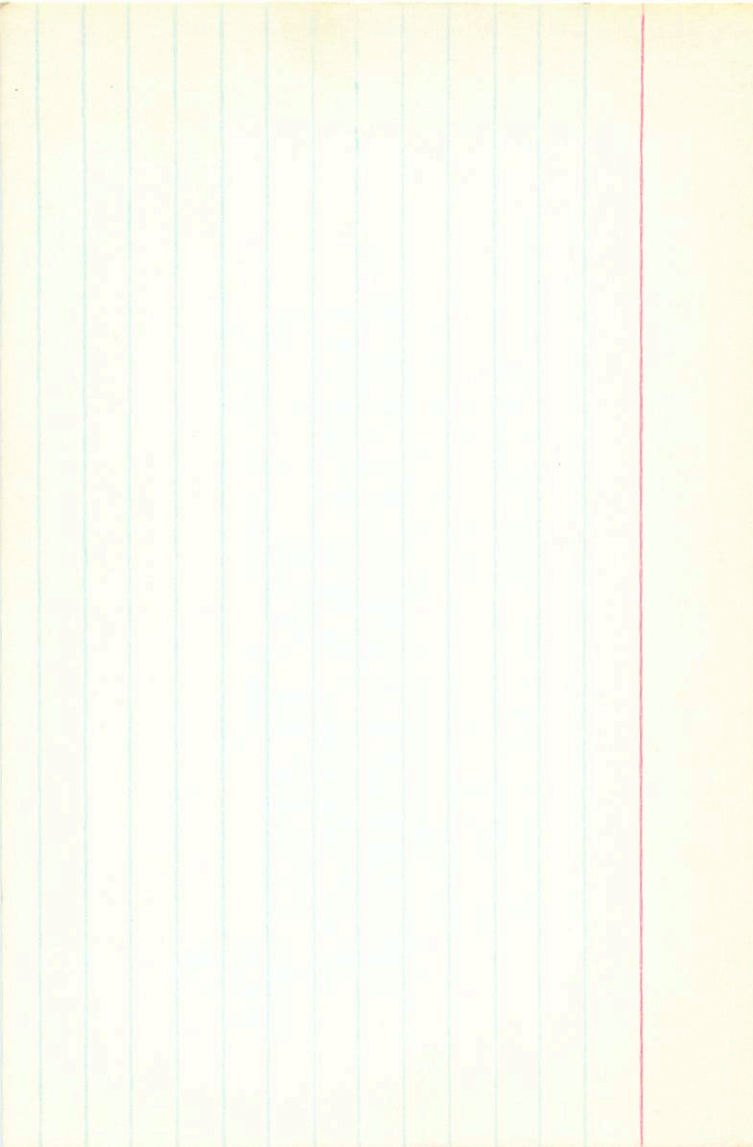
$$-13.7 - 62.6 - 2.3$$

$$-4 - 39 + 4$$

$$\rightarrow -14.2 - 67.7 - 1.9$$

$$+0.045 - 0.832$$

$$-12.0$$



+302279 9 49.4 +3 27 dno your

Y2326.1 8.90 + 1.23 + 1.225 (2) m(I) π (nd) 0.54
384(A) 8.29 + 0.47 (3) + 6.50
 $\frac{7.82}{1.32}$ 0.545

$\Delta(18-V) - 0.5$
 $\Delta(21-N) - 0.95$

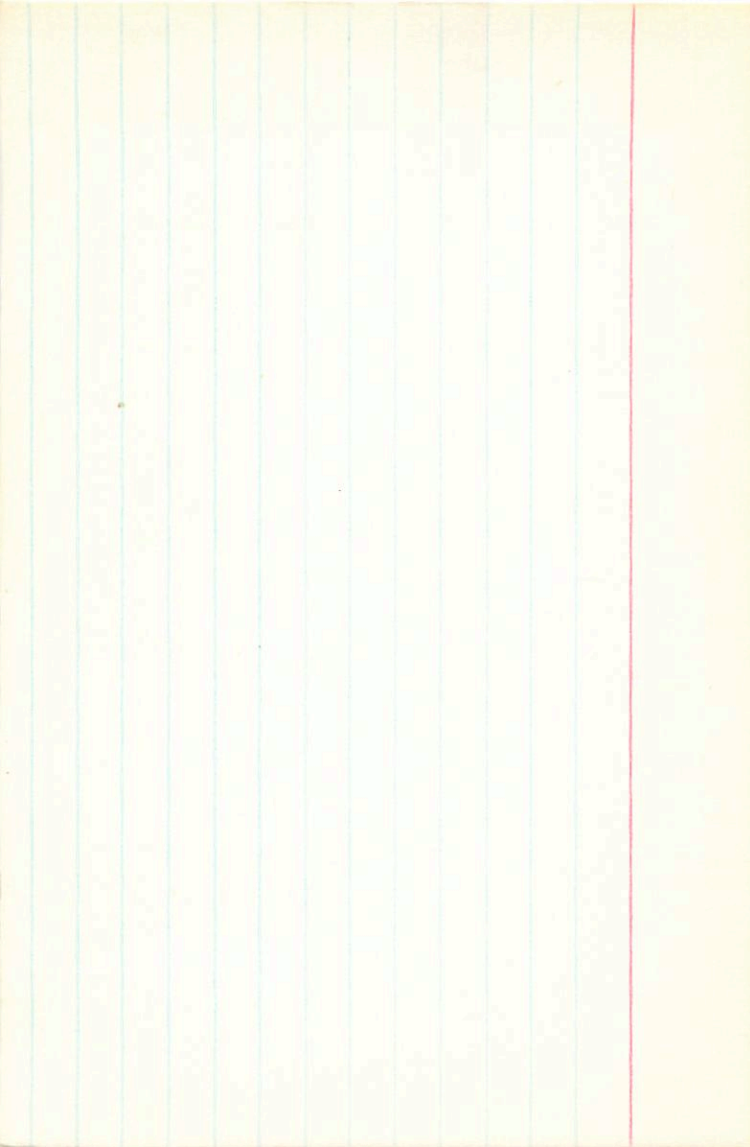
+532 - 168 - 20.5

N ✓ W

+40.9 - 15.6 - 8.7

+21.2 - 42.6 + 2.4

ok +16 - 1 - 12



Answer

86590 9 57.2 +24 47 170 E

$$\begin{array}{r} \text{warrant} \\ \text{in} \end{array} \rightarrow \begin{array}{r} 8.45 \\ 7.75 \\ 7.98 \end{array} \begin{array}{r} +1.02 \\ +0.98 \\ +0.37 \end{array} \begin{array}{r} +0.76 \\ +0.40 \\ \textcircled{3} \end{array}$$

235.9
 1/21/81

$$\begin{array}{r} b(10-v) \quad 00 \\ b(12-v) \quad +09 \end{array}$$

$$\begin{array}{r} m(17) \\ 6.05 \pi(107) \\ \hline 7.61 \\ 1.86 \quad 048 \\ \quad \quad 649 \end{array}$$

+35.4 -18.1 +16.6

+8 ~3 -7

→ +39.1 -18.0 +16.9

+75° 403 10 06.3 +75 22 d106

✓ 2879 $\Delta m = 0.0$
orbit

$$9.49 + 1.40 + 1.19 \text{ ①}$$

526(8)

$$8.65 + 0.60 \text{ ②}$$

M(±)

✓ 905

$$\Delta(B-V) - 0.2$$

$$+7.0$$

M(±)

$$\Delta(U-B) + 1.0$$

$$\frac{8.80}{180}$$

0435

~~50.0~~
52.8

u v w

$$\checkmark -53.1 - 0.9 - 32.8$$

$$-11 \quad +12 \quad -1$$

1822
1823

88230 10 88.3 +49 42 127E

Y12390 6.60 +1.38 +1.28 ⑥

5.75 + 0.595 stat
515
n(I)
+4.88

D(13-V) -01
R(20-R) +01

~~246M(8)~~
2175(25)
2220 (40 wt)

n ✓ w
+7.2 -19.4 -34.7
+50 -34 -31



-26.0 -13.54 -0.510

233719

10 10.7

+52 47

dMU

42397

9.52 + 1.10 + 0.95 (2)

8.83 + 0.47 (2)

26M(M)
69YK(U)

$\Delta(B-U) + 0.8$

$\Delta(U-B) + 1.8$

M(H)
+6.47

M(N)
+1.14

136
192

041
041

2 U W

-7.3 -90.2 -2.4

+3 -35 +7

-7.4 -88.8 -2.7

→

245 "096-0.748

~~K-30 2870~~ ~~10 10 45~~ ~~3 30~~ ~~9.3 25~~ "

SC
296

+40° 2309

10 12.2 +39 45

what

41 2403.1

40 M(10)

A 10.17 +125 +116 ③

$\Delta(B-v) + 05$

M(I)

④ 40 +0.53 ②

$\Delta(u-R) + 09$

+6.74
988

214

7/10/25

B 10.58 +1.36 +1.195 ②

9.72 +0.675 ② $\Delta(B-v) + 035$

7.27
904

040

$\Delta(u-v) + 07$

182

+8.0 -0.440 -0.050

u ✓

w

✓ +3.3 +20.2 +7.9

0 +8 0

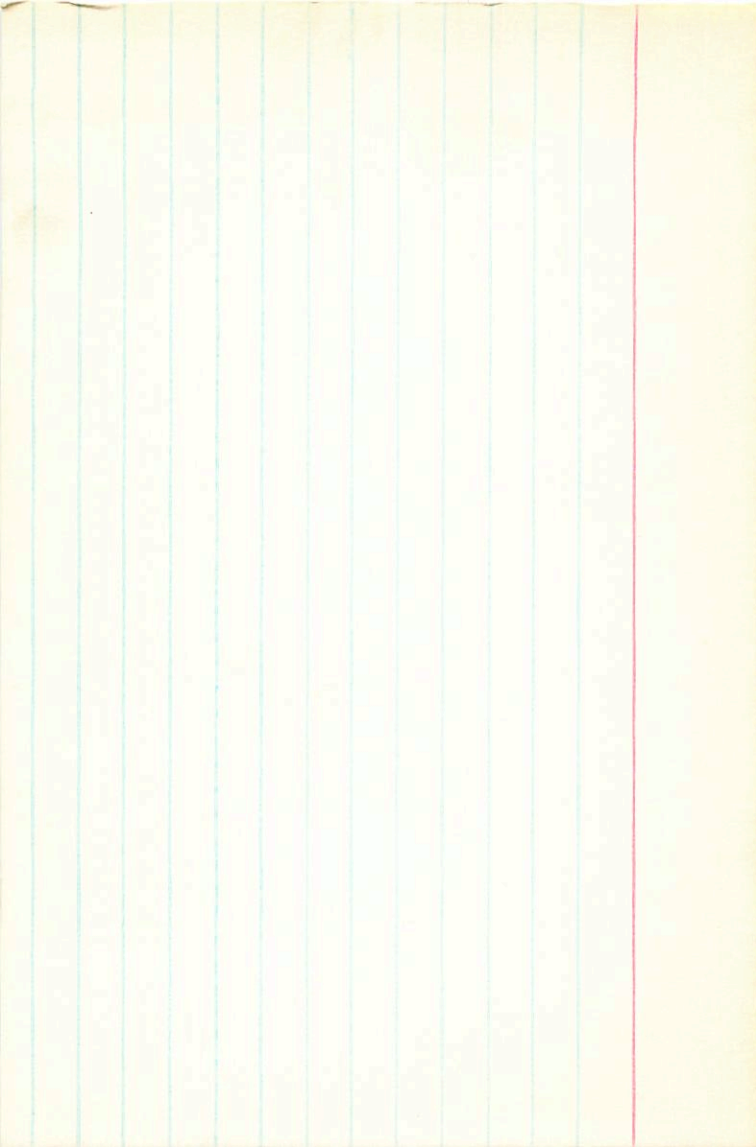
norm

90839 10 27.3 -56 15 F84
2459/7 A 4.82 + 0.51 0.00 ② 127E

4.63 + 0.165 skw $\Delta(\mu-\sigma) = 0.02$
 $\Delta(\mu-\sigma) = 0.35$

59 57 91M(6) B 8.70 + 136 + 1.25 ② ~~A(±)~~ $m(\pm) = \pi(\mu)$
81M(6) 7.86 + 0.54 ③ $\Delta(\mu-\sigma) = 0.4$
92S(6) $\Delta(\mu-\sigma) + 0.15 \sqrt{732}$ -6.77 0.078
80 $\frac{732}{55}$

$\mu \quad v \quad w$
 $\checkmark +13.5 -1.4 +2.7$
 $+7 -3 -4$



+16° 22' 16

11 05.8 +1602 dmo

Old

not yet

9.76 + 1.12 + 0.01 (2)

9.18 + 0.465 (2)

$\Delta(B-v) + 05$

$\Delta(U-B) + 05$

m(I)

+6.40 π (pt)

8.72

232

034

+10.68 +190 -360

	n	v	w
✓	+30.0	-90.7	+74.1
	+1	-18	-7

~~1802453~~ ~~11~~ ~~016~~ ~~18~~ ~~26~~ ~~108~~

6592

/ 04.9 +54 41 G5 VI

7219

5.17 +0.70 +0.10 STD

4.86 +0.28 STD

M(I)

+454

458

-36

/11 (INT)

.118

$$\Delta(B-v) = +11$$

$$\Delta(N-B) +335$$

129 un80

478

469

458
5454 4.14
55

97.2

+3.420 -1.576

u v w

+46.3 -1593 -36.6

+130 -103 -64

5.17 +0.70 +0.10 0.124 -0.55

4.86 +0.28 STD 80 +5.7

6434 1 02.4 - 39 45 Ga \bar{D} - \bar{V}

$$\Delta(B-V) = +0.65$$
$$\Delta(R-I) = +0.22$$

7.24 10.60 0.00 0.039 2.04 -56 -43 -7
7.56 10.23 2.2 17 +5.9 -21 -15 +5

$$7.56 + 0.23 \quad (2)$$

$$\begin{array}{r} 7.24 \\ 2.9 \\ \hline 4.34 \\ 2.04 \\ \hline 6.38 \\ 4.9 \end{array}$$

$$\begin{array}{r} 40.4(1.0) \\ 39.4(7) \\ \hline 39(17) \end{array}$$

17.60

Wed 1037 22 26.3 15 34 2105

15434

54418)

1414 +142 +122 (2)

M(I)

13.24 + 0.62 (2)

206

8(12-1) - 04

1262

12.86

5(12-2) + 085

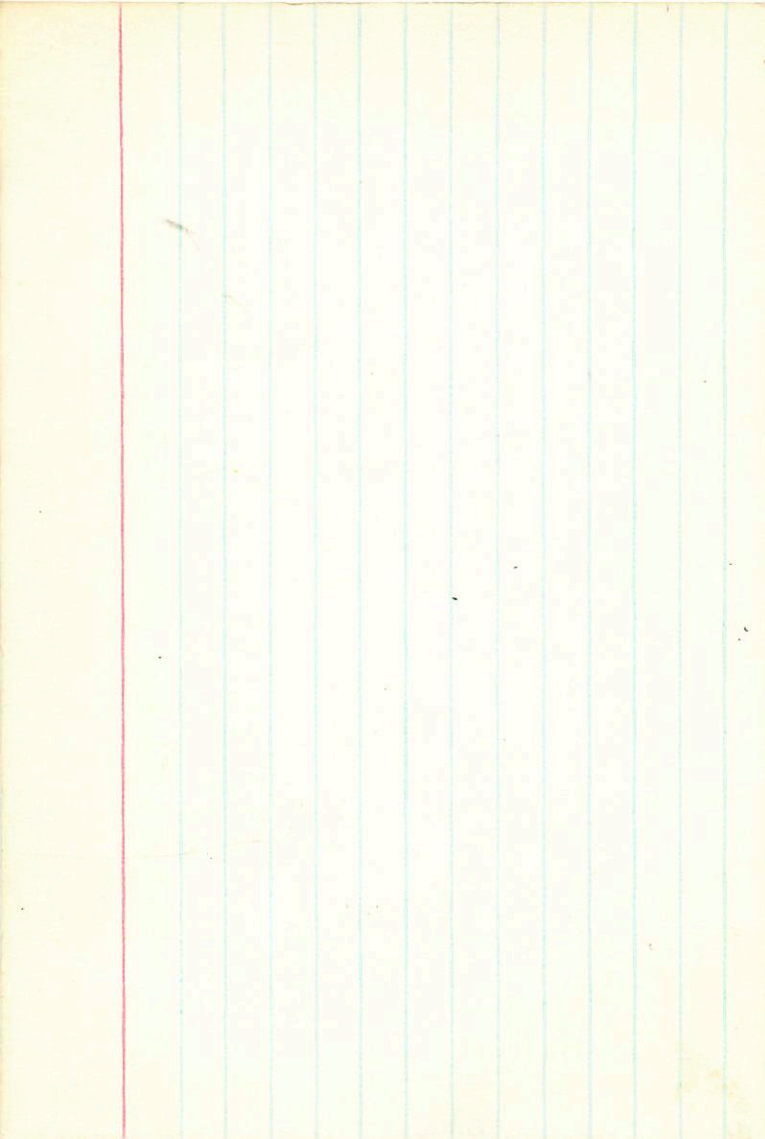
?

11.66

10.04

10.04
10.04
10.04

20



Pass 848

14 17.5 -9 23

LFT 1084

8-124-25

12.87 +1.60 +1.1400870.30 +9 -57 -23

11.58 +1.195 1/1 7 +10.35 -43p -27p +.74p

-73 -82-

-682 350-620

650 709-273

-334 590 736

+23275-15158

-22217-27557

+11399-22932

+8117 +9

+4,9774 -57

-11533 -13

152391

16 5-0.5 10 04

0.5A

6.64 +076 +032 0.045 -83 -108 +9 0.94
6.26 +0.25 44 42 -28 -73 +6 +5.45

556

540

516

46

13934/AB 15 34.3 +33 58

1393236

AQ 6.75 +0.94 +0.70 3

43581 Δ0 55^{years}

6.39 +0.275 ⓑ Δ(13-1) -16

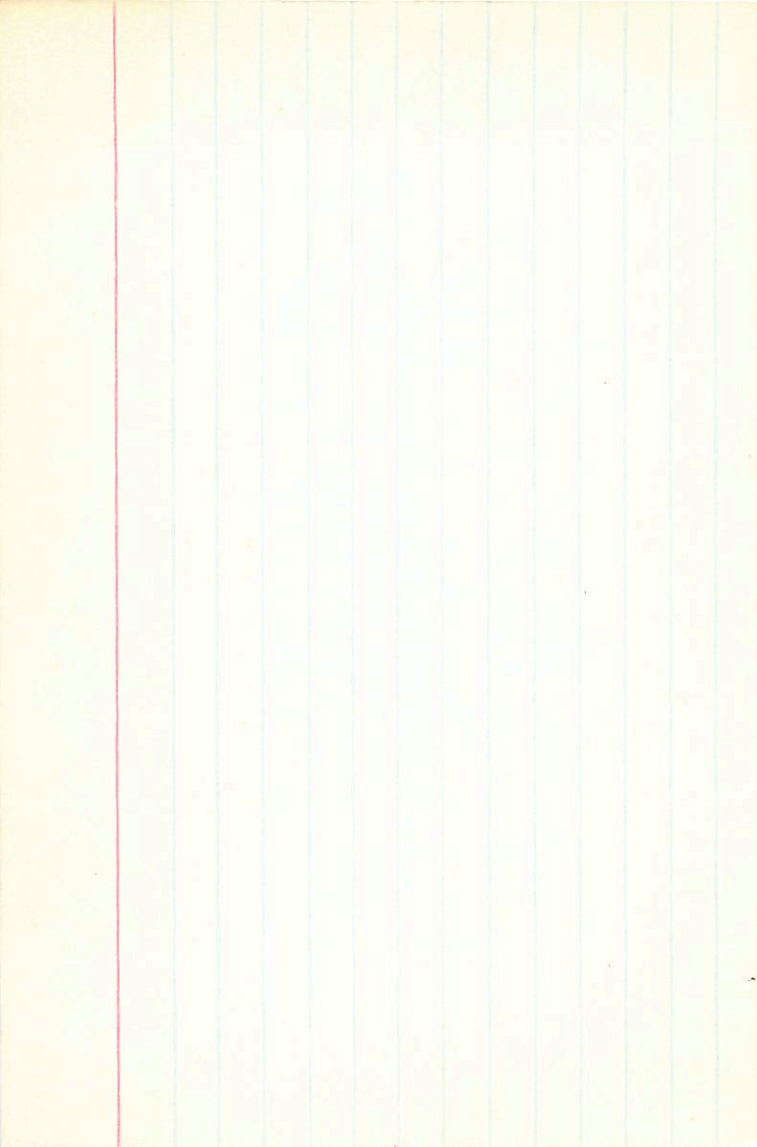
484664) Δ(2-8) -29

C 7.51 +0.97 +0.77 ⓑ

7.23 +0.29 ⓐ Δ(13-4) -13

Δ(2-8) -28

2019



Myri

186408
186427

19 40.5 +50 24 62E

all
65E

71 4834

5.95 +0.65 +0.14 (4)

41(I)

5.76 +0.225 (4)

$\Delta(B-V) = 0.0$
 $\Delta(B-I) = +0.25$

+4.3
554
1.24

41A(16)
34M(18)
3676(17)
205A)
34

6.19 +0.66 +0.20 (4)

$\Delta(B-I) = -1$

6.00 +0.225 (4)

$\Delta(B-I) = -0.25$

4.3
575
1.48

~~24~~ $\pi(12)$ 53.5
-14.2 -29.0 -0.8

No

Woy 630

-35.5 -33.0 +5.4

π 024

-9. -3 +3

174080

Boyer

old

147 923 19 49.7 +11 30 625

41 46.75

9(I)

24 41.12

6.16 +0.64 +0.125 (2)

443
5.7
1.9
7/104

5.43 +0.23 (3)

(48)

8(13-1) +0.15
8(12-0) +0.95

Argue

del

195987

20 311 +41 43 69E

44893

SB range 29 hr/wk

50A(28)
~~21A(16)~~

7.09 +0.80 +0.35 (2)

$\pi(I)$

+5.08

40M(17)

6.70 +0.31 (2)

639

50W(8)

$\Delta(B-1) +19$

1.81

53S(6)

$\Delta(2-B) +24$

$\pi(12F)$

~~061~~
055

out

~~49~~
49

$\pi(031)$

+424 -4.4 +56.8

-13 +2 +19

~~$\pi(043)$~~

H(049)

+277 -6.1 +38.3

1412141 ~~582141~~ ~~02~~ ~~5.98~~ ~~714~~ ~~70~~ 1012

Augur

old

198387 20 46.4 +52 13 800

44576

8/5^m

6.27 +0.98 +0.55 (3)

M(LI)

12¹¹

5.91 +0.325 (3)

75.44
558

19A(28)

8/18-1) +04
Δ/12-8) +11

(28)

$462 \rightarrow 1554$
 452
 460
 152
 154
 4947752

6 38.2 124 01 466

1001

41558
 $46M(7)$
 $74M(8)$
 115014
 82

729
 734
 $46M(8)$
 $46M(8)$

445
 40.94
 40.276

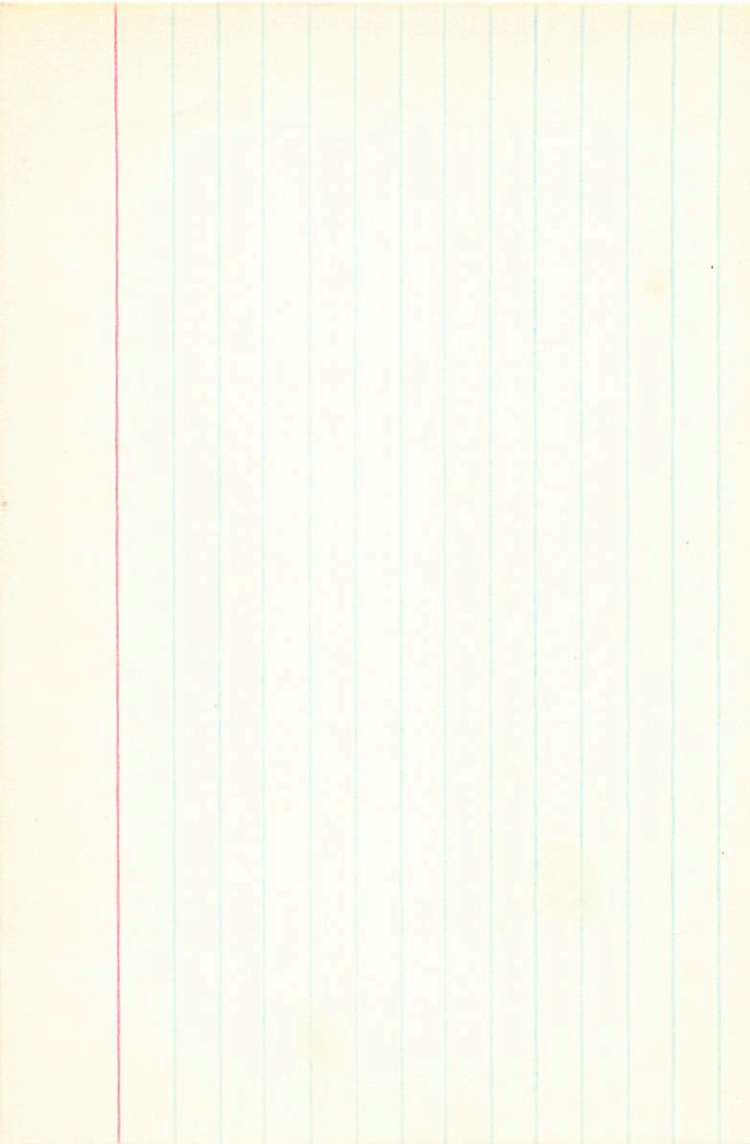
$8.12 + 1.02 + 0.915$ (2)
 $7.66 + 0.38$ (2)

$\delta(B-v) + 005$
 $\delta(14-0) - 035$

$M(F)$
 $71M(F)$
 $+5.67$
 7.28
 1.61
 0475

n v w

$-49.7 - 21.6 - 1.9$
 -3 $16+3$
 $\rightarrow -50.3 - 20.4 - 1.3$



Y924.0

4 027 -53 32

LEF332

624/101

510/151

591/151

11.80 + 1.445 + 1.18 0059 115

1068 + 108 1,2 15

25

1030

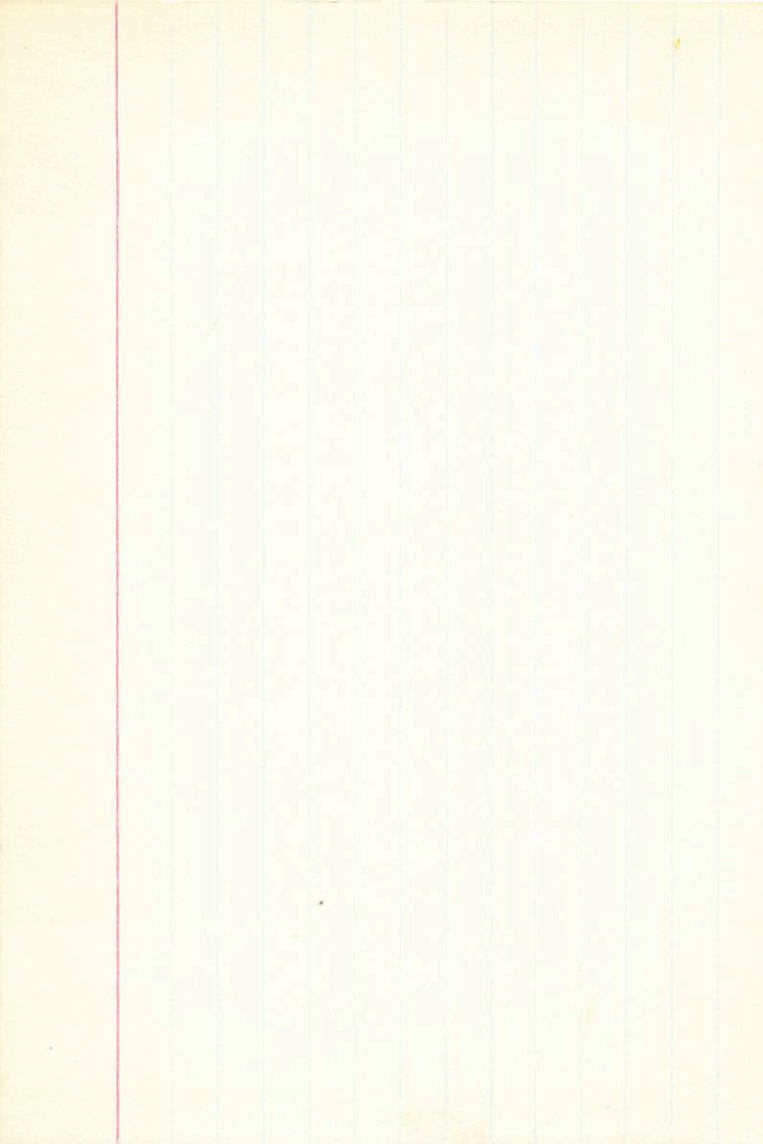
1.40

1.40

8.15

1.15

7.75



1. 159320

3

51.5

-37

11

-320, 501

7864.1

49 (15)

12.15 + 1.42 + 1.010049 1.55

10.56 + 0.43 5.2

15

0524101

643017)

35

10.55

9.3
9.15
7.8

Augue

22874 3 375 -3 22

024

4763
55A(28)

22418

517(11)

134(16)

SA
44

6.20

24

~~585~~
4.0

6.6.710.55.0.090
6.48 10.33 2.2

6.68 +54 -08 5

6.67 10.555 -0095' (2)

6.49

6.48

22

10.225 (2)

10.33 5

41E)

44.2'

4.25

205

π (rad)

039

δ(18-1) +095

δ(12-0) +245

6.26

137

49

+104 -50 -42

+10 -24 +11

+107.2 -88.6 -38.3

+10 -24 +16

1.75

3.08

5.08

1042 →

487

11042 -80.0 -43.0

W04/534

3252.0

14 16 6 -7 04

11.83
13.7
10.46
17

9.70

E124-23

LFT 1050

B10-1)

(04)

13.43 + 1.58 + 1.05 + 0.070 ~~0.977~~ + 24 - 87 - 60

12.21 + 1.05 + 1 12 + 10.7 - 60p - 25p + 26p

-1.10 -0.80

-688 414 -596
648 720 -249
-325 557 764

+3.5872 -1.5699 +2.0173 +29
-3.3786 -2.7302 +6.1088 -87
+1.6946 -2.1121 +4.195 -60

L224-91

4 079 -53 31

10

11.50 + 1.445 + 1.18 0059 1.15
10.68 + 108 1,2 15

09. - 10.11

Bygone

16307

1 38.7 + 42 22

625

29

~~off part~~

Y350

84 A(20)

93 M(16)

86

John
4715
+ 0.215

4.96 + 0.62 + 0.10 (4)

474 + 0.215 (3)

M(LI)

1550

4.3

71124

098

$\Delta(18-9) + 1.005$

$\Delta(11-8) + 107$

+ 323 - 24.2 - 0.2

+ 24 - 26 +

Angus

86728

9 58.1 +32 10 648

all

42266

72A(116)

19M(17)

425185

53

5.41 70.66 +0.26 (5)

M(I)

5.12 +0.22 (3)

~~44. 71(124)~~

$\Delta(B-D) - 0.22$

~~49 0.5 0.29~~

$\Delta(N-D) - 0.75$

(09)

~~519 -38.5~~

1.00

3 then

+56.8 -46.0 +19.6

→ 063

+15 -23 -16

249
249
249
249

(Rajgar)

90508 10 25.0 449 03 G-1 E

old

72469

12.55^m

6.46 to 6.05 + 0.045 (2)

MIF)

5341281

40M17)

6.20 to 0.235 (4)

4405
557

51

B/R-d) + 07

1.97

S(m-Q) + 15

π/mt)

077

-19.6 - 84.5 + 20.4

-7 - 490 + 12

(Average)

114762 13 09.9 +17 47 F9 E

veg

Mutypols

7.80 70.55 -0.07 (2) MLEI

7.10 +0.21 (2)

=

6.89 6.18-9 +0.55

month

4.92 4.12-9 +2.25

avg

NGT

6.15 4.609 -5.30 +5.59

71 = 0.32 +2.2 14 +2

old

117176 13 26.0 114 03 G5V

Y3076

4.99 + 0.71 + 0.26 (4)

01(F)

4.68 + 0.25 (5)

4.25
4.13

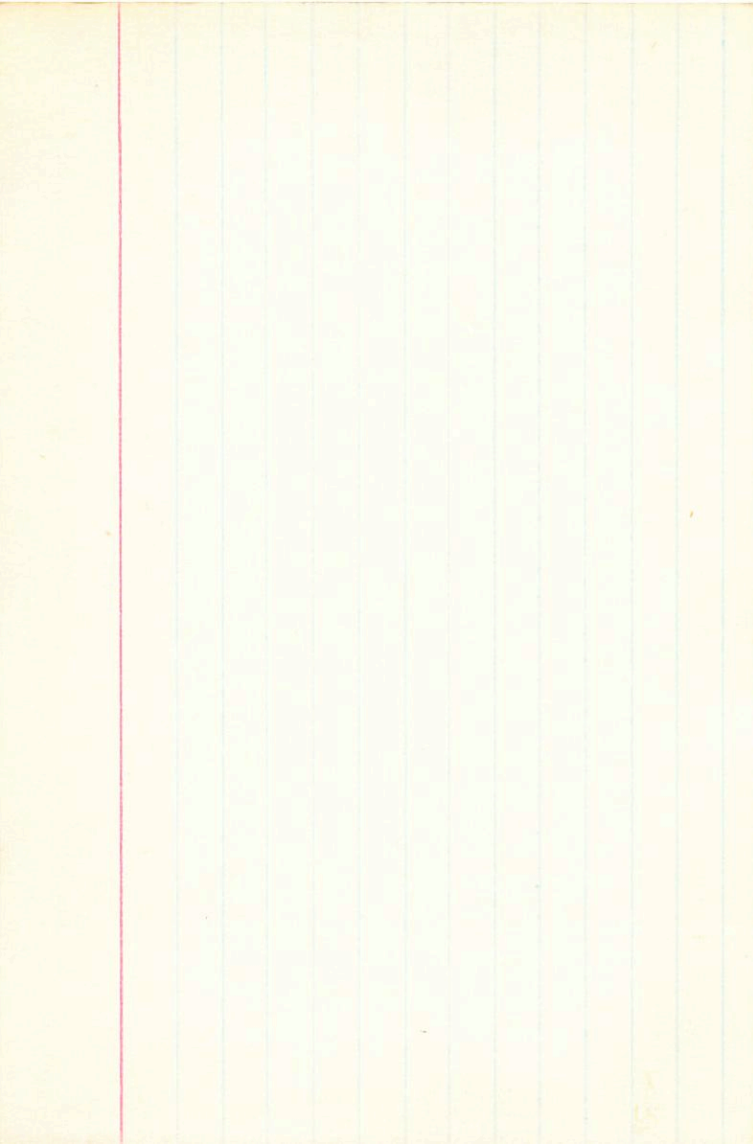
35A(14)
46MB)

B(13-v) + 005

B(12-a) + 02

(A9)

41



+53° 29' 11" 22 30.6 +53 31

not used

C 10¹¹ Erichsdall

A Δ 10-01 +1.34 +1.14 (1)

M(I)

18^m
E 00V

Q: 21 +0.625 (2)

207
9347 (not)

996
75

Δ (13-0) +0.4

2.27 035

Δ (12-0) +1.45

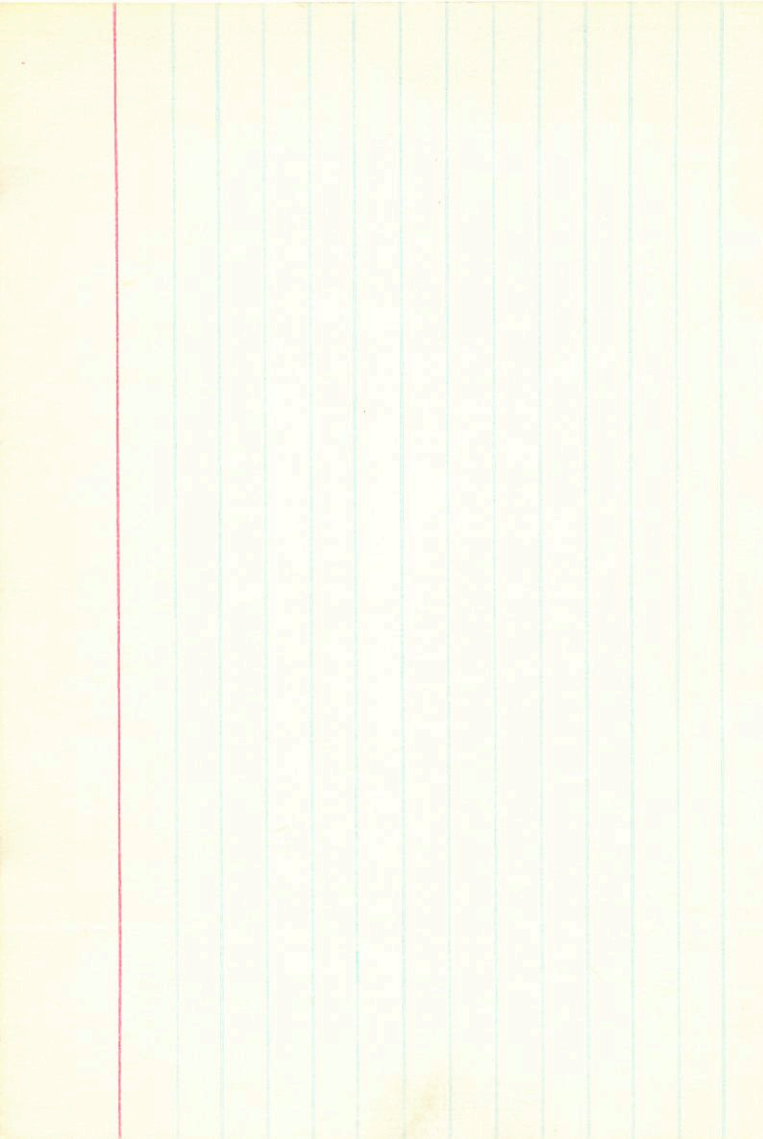
N V W

+169.2 -50.0 -123.1

+59 -17 -43

+1.590 -0.130

-2.0



Johnson

freq

217014 22 55.0 +20 30 GVD

+5568

m(I)

72A(20)

5.50 +0.07 +0.20

4.289

71/mA

74M(8)

5.25 +0.22

5.03

96

080

23

Allyum
5.21
+0.15
(3)

D(B-d) -3

d(u-d) -1.5

+14.1 -29.7 +14.4

+10 -1 -2

105671

12 of -46 v1

$$7.78 + 0.46$$

$$\begin{array}{r} 2.10 \\ 6.3 \\ 6.79 \end{array}$$

$$11.50 + 11.16$$

$$\begin{array}{r} 35 \\ 11.52 \\ 15.2 \\ \hline 10.00 \end{array}$$

22874

3 378 -3 22

263.0

554(28)

6.45 + 85-y - 008 (J)

22M(8)

6.44 - 10.28 J

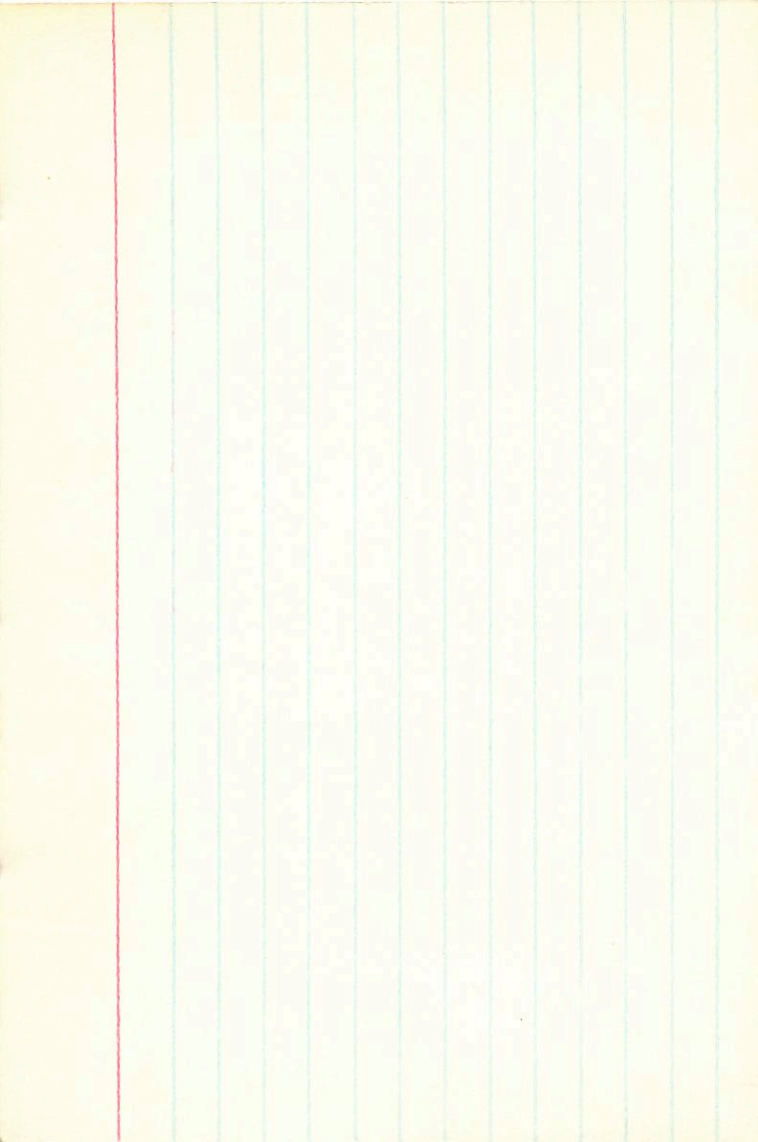
50Y(10)

+ 125

12C(6)

44

$$\begin{array}{r} 22 \\ 426 \\ 478 \\ \hline 4 \end{array}$$



+77°36'

9 06.3

+77° 40' 27"

10.06 1.385 1.225' (2)

9.18 +062 (2)

50
~~14777~~
a:55 } }

63M(17)

39E(12)

39V(12)

44