

-0267 ± 3.2
-0275

+003 ± 2.8
+005

127824 14 29.6 +63 24 6.0 dF4 -3.21

19595

8474 34.570 1884.7 +63 24 22.22 1882.7

1.744
36.314
36.314

58.792
36.232
35.035
0.51067

34.681
710
34.888
9771
1.426

60.4 1928.2

38.92

21.48

21.42

90

21.10

21.80

72.91

365

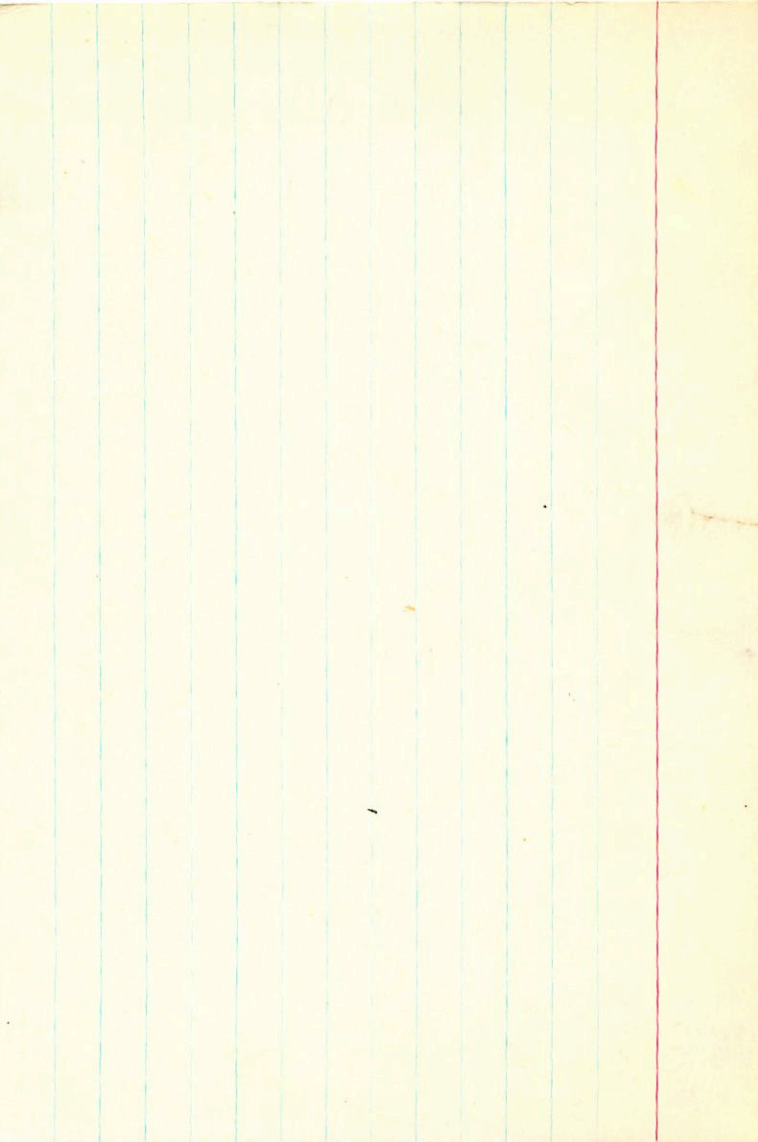
53.8

22.99 1944.71

14
22.85

22.32

+1.30



P 600

127665

14

29.7

+30

35

3.8

g 123

-13.7 a

19597

8475

96

+119

94

N30

1370

1349

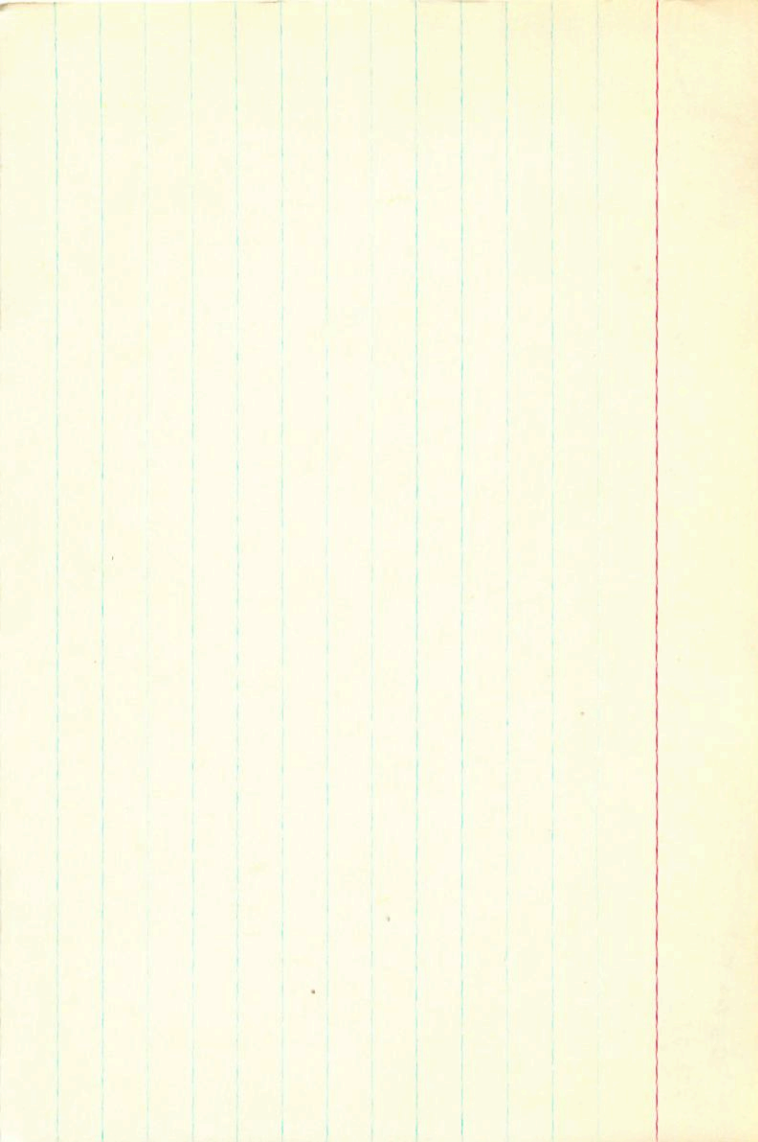
-0079

-0079 ± 0.8 + 119 ± 0.9 GC → 2000

AD59296

25
30

12m 50"



127486

FD961

14 30.0

- 54 47

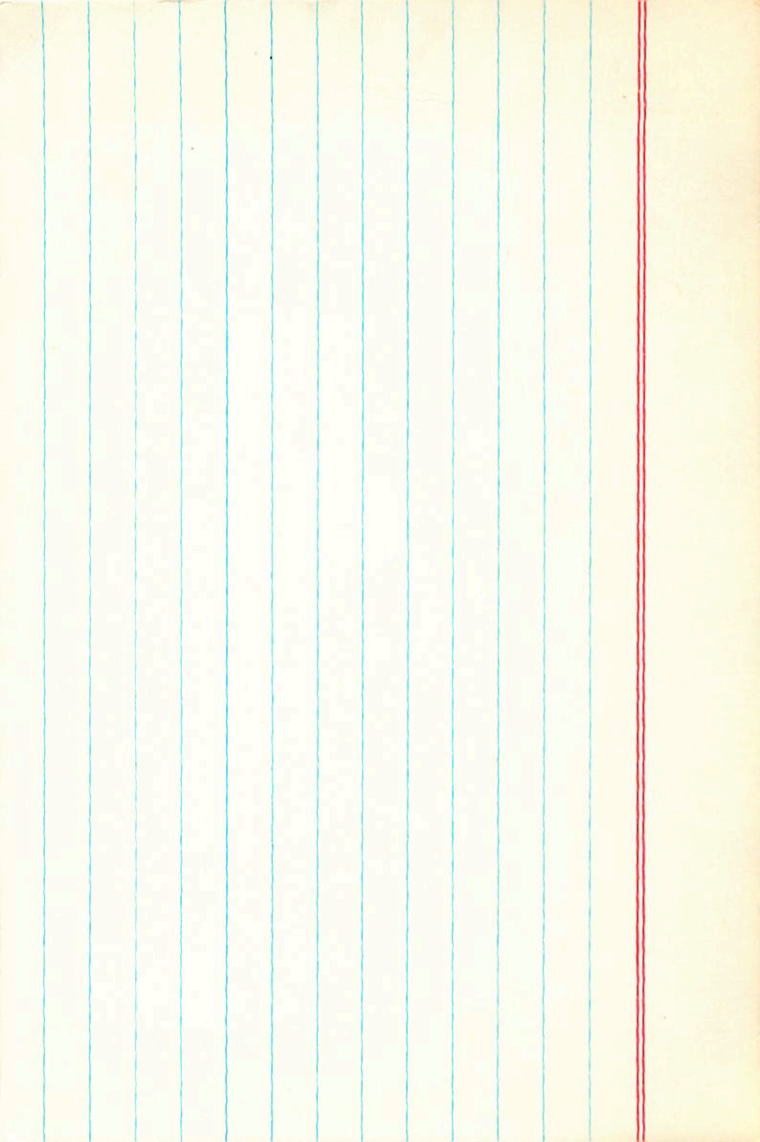
F8E

- 0.4

4C

5.86 + 0.48 (1.61)

- 094 - 012



2758

144 30.0

80 24

+7.6

10032-053 slip

100342-0486

00295-048

00287

0930

170
210
043-045

128751
 985041
 14300
 -5447
 415
 515
 585
 ~~477~~

$500 + 560 = 1060$
 $-1095 = -35$
 $510 + 8500 = 9010$
 $-125 = 8885$
 $-1096 - 004 = -1100$
 $+59 = -1041$
 $+819 = -222$
 -0.4

$5.87 + 0.48 + 0.04 = 6.39$

$314 \cdot 158 = 49612$
 $584 \cdot 2623 = 1531732$
 $851 \cdot 413 = 351663$
 822

$614 + 19$
 412

971
 138
 \hline
 821
 $+157$
 978
 1205

$1.50 + 6.3 - 5.9 + 2.3 = 4.2$
 $-1302 - 311 + 116 = -1497$
 $-0.94 - 0.4 = -1.34$
 -0.12

47

AD59300

8000

HR5435 127762

W8477 19607
8477

14±5

[Faint, illegible handwritten notes on a piece of paper pasted onto the notebook page.]

5425.000*

14.000*

33.000*

54.000*

~~-609 -793 623 783 -116 +147 -35.5 092 -22.1 8-45~~
~~2071 056 092 -073 009 30.1 -27.9 22.0 17.0~~

+22.4 +47.5 +1.6 023

+51.2 +1.7 -19.7

036

+22.3 110.4 -3.9

03

$f(F)$

.136

Sp.

				81.47	180.5	0.089 (2)
67.52	160.0	0.130 (2)		80.15	150	0.084 (2)
66.49	164	0.130 (2)		78.15	148	0.058 1
				83.25	151.5	0.114 (2)
65.49	165.5	0.136 (2)		84.25	153	0.118 (1)
64.51	165.7	0.139 (3)		84.39	154	0.128 (3)
				85.49	154	0.138 (2)
63.52	163	0.130 (1)				
62.49	162.3	0.131 (4)				

Low^o
 ↑ max_y

$$a = \frac{y_1}{1+e}$$

+0008 ± 4.3
+0008

-0.22 ± 3.4
-0.24

128000 14 30.9 + 55 37 6.0 gms + 2.88

19627

8485

56.938 18963 + 55 37 3.12 19011
043
895

40.7 1926.8

37.35

2.54 988

2.89 3.29

2.13 - .91

2.76 1944.97

3.87 119.06

-20

3.67 1947.29

3.64

-21 3.45

38.0

9.975

46.948

56.910 924

89

930

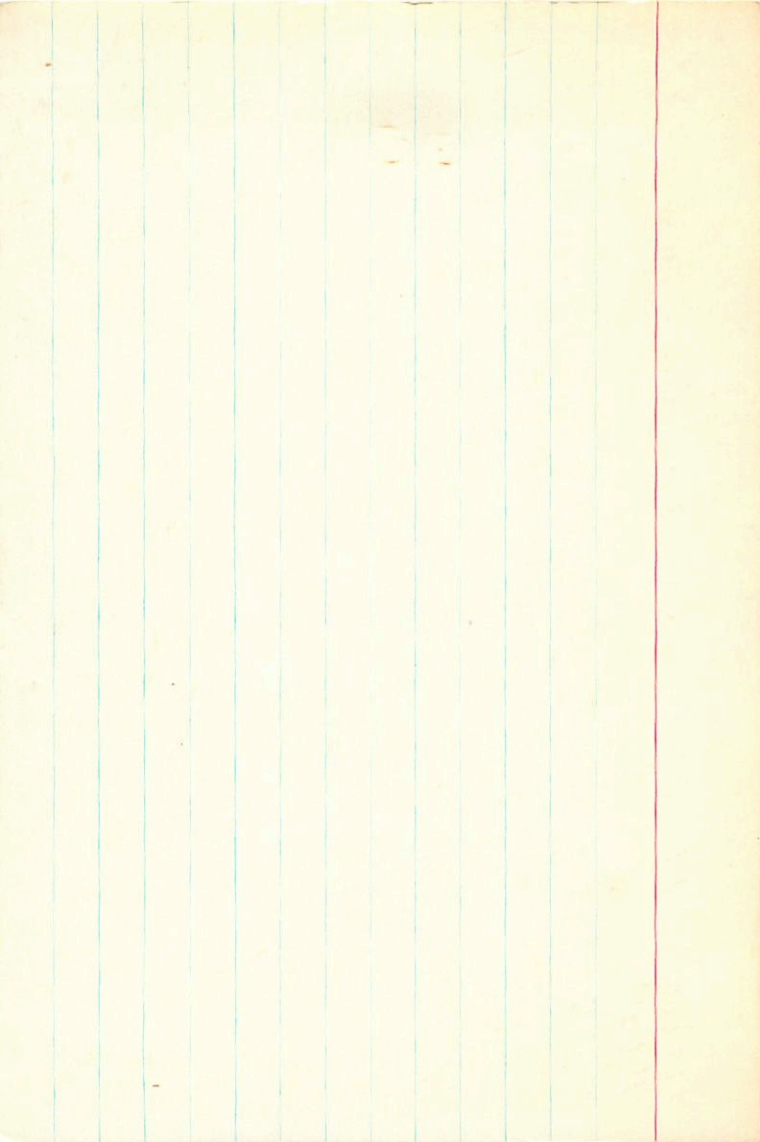
35

56.933 935 + 0.35

56.914 930

930

43.4



- Row

448
92

30

14.5
14.5

+5.5 ①

12286

14 3/3 +37

11

F5

F3

①5441

-0004 -005 40
" "

649436

6.4

-004 -005 60
-0040 -0010
-0040 -0010

① 148

00034 -0811 W30
L400
-0047

-1814

~~001-008~~

222 +28

.340 .170 .486 ②506 2.6433

at

418 +124
+152

350 150 480
345 160 483

Lang 2 Rang

1094
484

+20

356
②043

②020

+15

340-00

176

-0005 ± 40
-0003
-0085 ± 3.3

17.644
0.27
0.93
1855.5
45.58
1850.9

3.87
45.35

-0004 -075
44.80
1951.75

17.645
+ 9
654
-005
-0005 -071

-019
-5.25

4/2

1890

1890

5441.000*

14.000*

31.000*

37.000*

11.000*

-3.001*

-3.063*

4.400*

72.7 75.858

1.800

-3.236

-3.176

-12 -13.195

-3.216

3.360

-15 -13.763

3.040

3.916

4.656

49

128083

14 321 +32 45

F2

HR5445

GC19650

14.5

+62.75

135

000

3.4

2.1

[M] 185 +42

[L] 416

.302 .131 .476 @ SPL 2.657

③

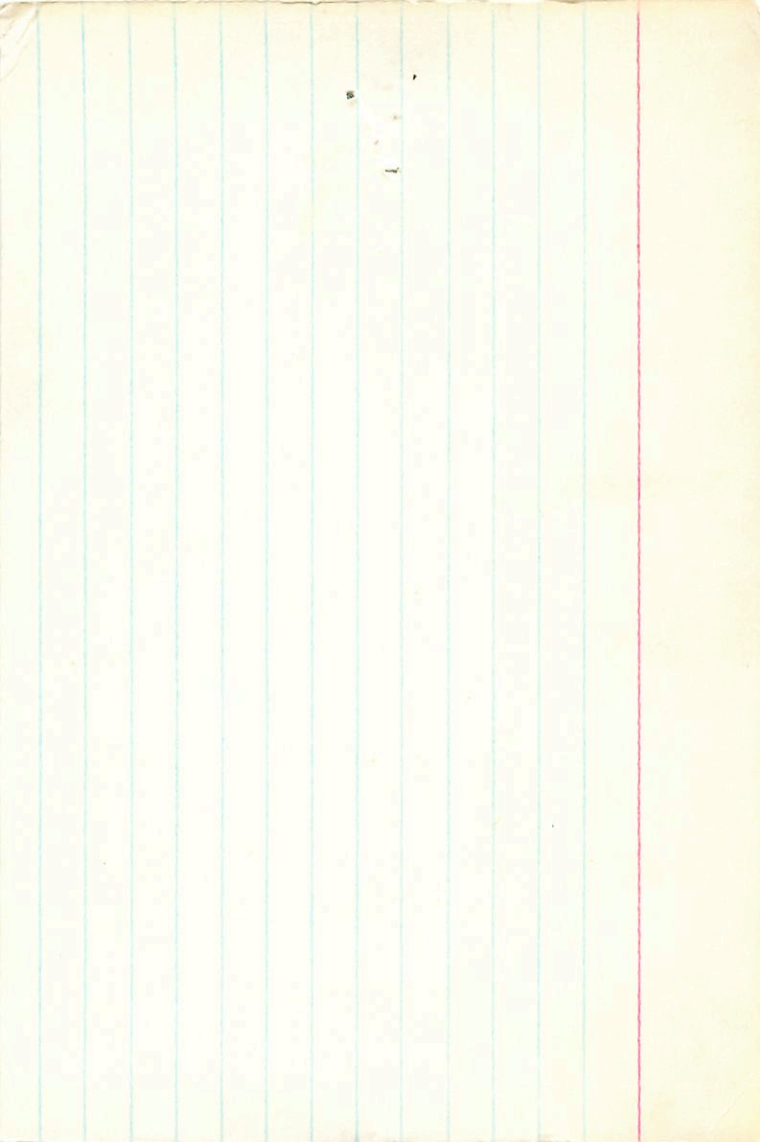
at

65

82

457^m. -14.1 +13.7 -17.1 +114

-8.1
000
602-958
-209 000



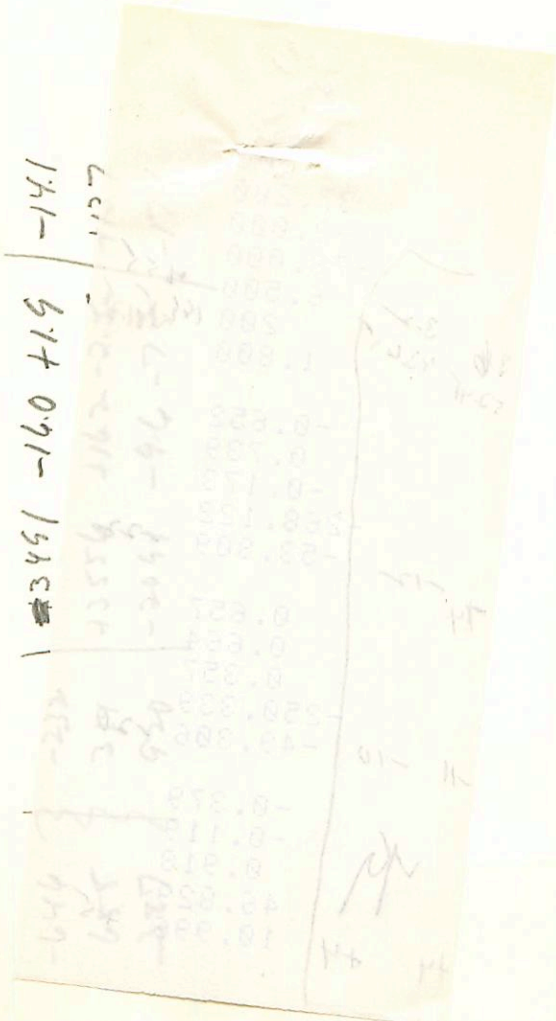
← 880-1111 →

-8.16

5445 14 32.1 132 45

Wish

-449	-232	3456	-16.0	+1.9	-14.1
649	38	4556	162	-2.5	1.07
880	896	-2048	-96	-7.5	



R.A. : 14.500
DEC. : 32.750
PM. R.A. : 135.000
PM. DEC. : 0.000
DISTANCE : 3.400
MODULUS : 48
AD. VEL. : -8.100

q1 (U) : -0.652
q2 (U) : 0.723
q3 (U) : -0.230
dU : -350.693
U : -14.923

q1 (V) : 0.657
q2 (V) : 0.689
q3 (V) : 0.305
dV : 353.711
V : 14.462

50
q1 (W) : -0.379
q2 (W) : -0.047
q3 (W) : 0.924
50 dW : -203.814
W : -17.242

-122

5445

14 226 + 236 51 64 545

Amway

540-1000

540-545

850-180
-1-1
-032-058
-031-062-060

8474
5309
-6125
-7905

57

5448.000*

14.000*

32.600*

36.000*

51.000*

-0.032*

-0.050*

6.500*

199.526

-12.000

-0.106

-0.184

-18.971

-0.282

0.359

-60.517

0.069

0.915

6.828

51

GC19728
 148128620
 Xlen

Bud 51 $\frac{5}{2}$ 4886 + .716 $C = -22.52$
 14 32.5 - 60 25 1500

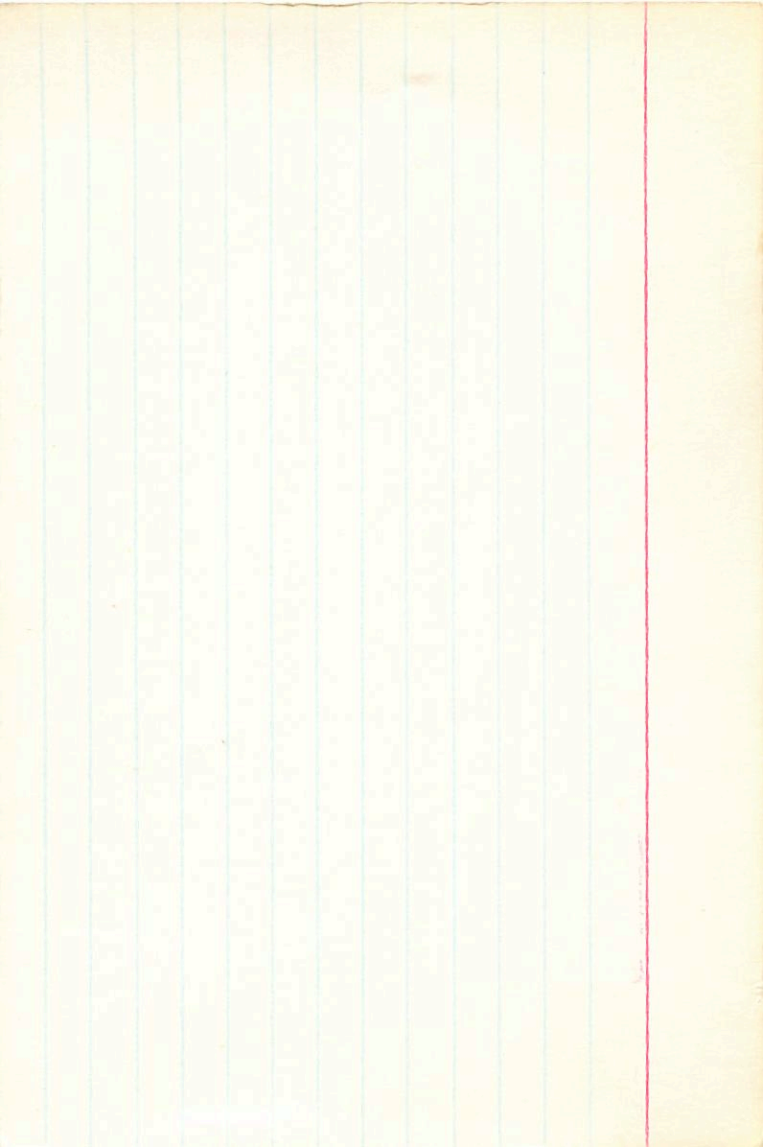
R	R-I	V-R	V	m_1
A	-0.30	+24	-0.06	+4.34
B	+0.91	+26	+1.17	+5.57
C	9.17			

②

	m	v	w
11.22	+1.90	+1.43	①
	+29	+2	+13

$P = 80.089$ } Firmen U.S. N.O.C. 68, 343, 1926 $m_1 + m_2 = 2.06$ \log
 $Q = 17.5933$ } Hochberg, E. 1936 Q.A.N. 7, 329 $m_1 = 0.05$ +1.02
 $\frac{m_2}{(m_1 + m_2)} = 0.441$ $m_2 = 0.91$ -1.04

A0 0.713 } Kesteven. 1516 A.S.D., 1017 Entomus
 C 0.764 } Chromis



+0264 ± 4.2
+0264
-244

+0264 ± 4.2
+0264
-244

128332 14 32.8 +57 17 6.2 FS -21.88

19664

8497 45.159 1897.6 +57 17 11.70 1894.1

-1.383
43.776

59.86

44.662

44.529

513

44.876

521

45.007

611

+1.100

45.075

147

6

+13.42
25.12

51.9 1925.6

34.90

17.00

17.52

17.52

17.40

12.95

23

1272

1243

21

1222

234

14.11

-11.01

11795

1945.06

39.3

1947.29

45.2

324 167 348 2625

377

RV lid

14 33.0

-17

49

46

10.72

128171

1904422

2 SC. APP

-027 ± 14 -025 ± 10 X

+4

-10

-023

-032

0

+3

-023

-029

164

-022

-026

164

52



1000
1000
1000

128068

14

-00414.7
-0034
33.0

-46

02

5.4 25 -60.0a

19669
8500

5.54

+1.53

+2.52

224

-586188

5.54

+1.48

+1.73

785

1.934 1910.4

-46

41.84

1903.7

162

2,096

2,005

009 3,939

1,946

-16

930 -126

37.3

-0.56

42,40

42.02

-28

42.30

402

41.44

-28

41.72

42.01

4.39

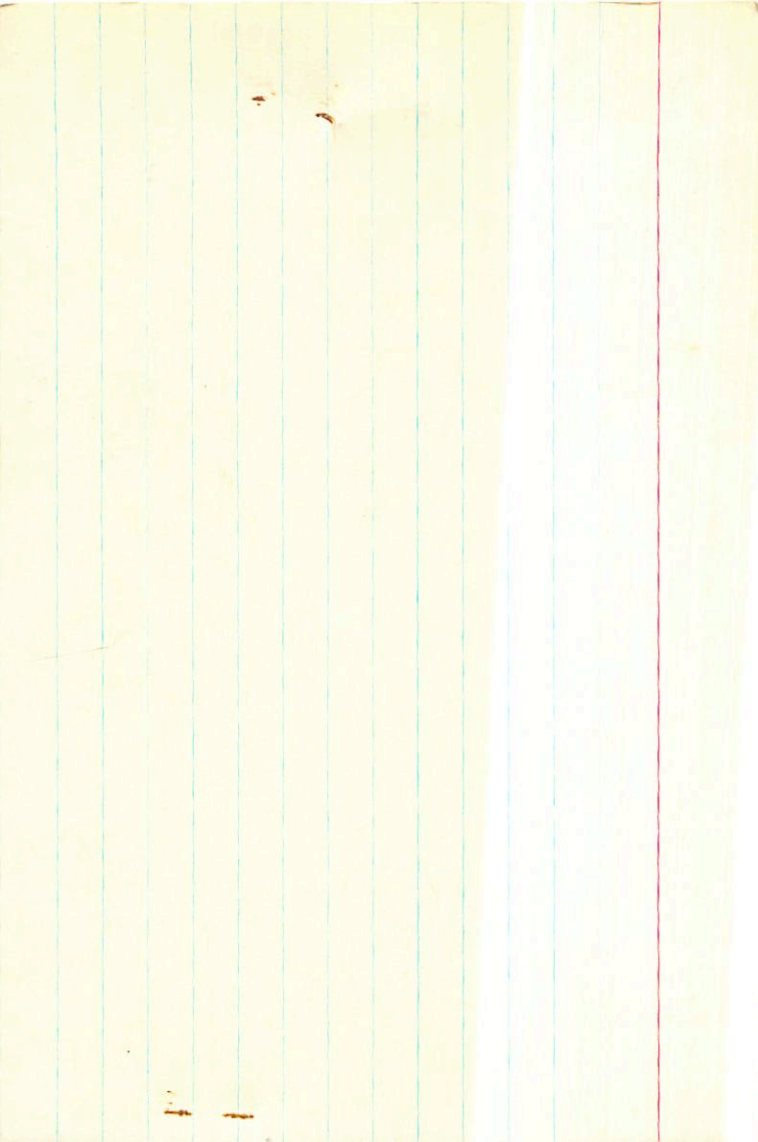
1939.69

9545

47.7

1955.76

44.0



-582
-033 +022 MC
-3
-036 +022
M3-M6

R B00 14 34.0 +26 57

HD128619 also Ap. Sup. 131
GL19706 b=+66.5
6.7-12.5 Um

223.46d

V R R-I Pkm 5D2440000
9.71 7.39 +2.05 0.83 241.9
7.62 ~~7.15~~ +1.45 0.92 262.8
7.33 5.58 +1.32 0.94 267.9
6.95 5.66 +1.19 1.05 285.9
7.36 5.87 +1.32 1.205 303.7
8.32 6.44 +1.63 1.195 323.7

tabulari
-0.0018 +0.010 N30
M-M
2.50.
3.50 (p.p.)
Pygmae +52 -17 -38

R B00 6.9 +1.45 +1.00 -3.2 +5.5 -17 -37 -23 -58.0 223
HD128609 5.6 +1.18 7.75 +10 -4 +5 +10 +66 E=+03

11.24 to 10.47 - 0.07 w

11.20 to 10.44 - 0.06

7.25

3.45

R 300
128609
19706

64
14 35.0 +26 57 5.97 9442 -582
-0009=4.0 +006=3.0
-0009

8511
12702400
5.22

59275
275
170
100
1010

1996.4 +26 57
-27
-27
12.5

914.1904.7
-27
+61
-32
-34
8.0 70

3.25
5
9
9

1010
-0010
+10

400 250
+31.2 +15.4 +18.2
-6.0 -3.1 -14.3
+12.0 +7.5 -53.2

1090
+10776
446
-0124
442
+0200

-639 503 -314
660 710 247
-394 049 917

+0445
-0460
469
+0276
699
-720

+0333
+0336
+0023

59.26
8.6 1440.27
-0.8
-8.55

1032
984
1055

+55
-17
-37

+38
-17
-45

-082+017

-00065.1

+00454.0

-0012

9.11 1892.11

51
306

39281 18550

$\frac{0.28}{3.61}$
-0009 1005 $\frac{23}{9.88}$

59245
-06
5924

352
 $\frac{-012}{-016}$ 1005

8.6
 $\frac{-055}{9.3}$ +2
154037 ?

59186
+013
59193

59.214
 $\frac{-012}{-016}$

9.5
 $\frac{-025}{9.23}$ +2
9.54
15344
1179
62

59113
 $\frac{0.13}{5.063}$

9.18
 $\frac{-02}{9.3}$ 0.5
1530.1

1439.3
 $\frac{0.19}{1.26}$

0.000*

14.000*

34.000*

26.000*

57.000*

-0.016*

0.005*

8.000*

398.107

-58.000

0.065

-0.312

44.067

-0.033

0.244

-27.319

0.031

0.918

-40.944

53

731

128660 14 35.0 +43 03 F8 -20

14707 GV

W8512

1.580 19043 -0060
-009442 -006±3.1
-068

430
2.010

53.31
3.26
56.59

1900.3

-0092-067
-1 +4

1.574
+ 3

53.44
-41

1952.30

1.577

52.03

-433

3.56

-639 762 -168

+3089 -2275

0814

+0.2

660 14 433

-3191 -1834

-5025

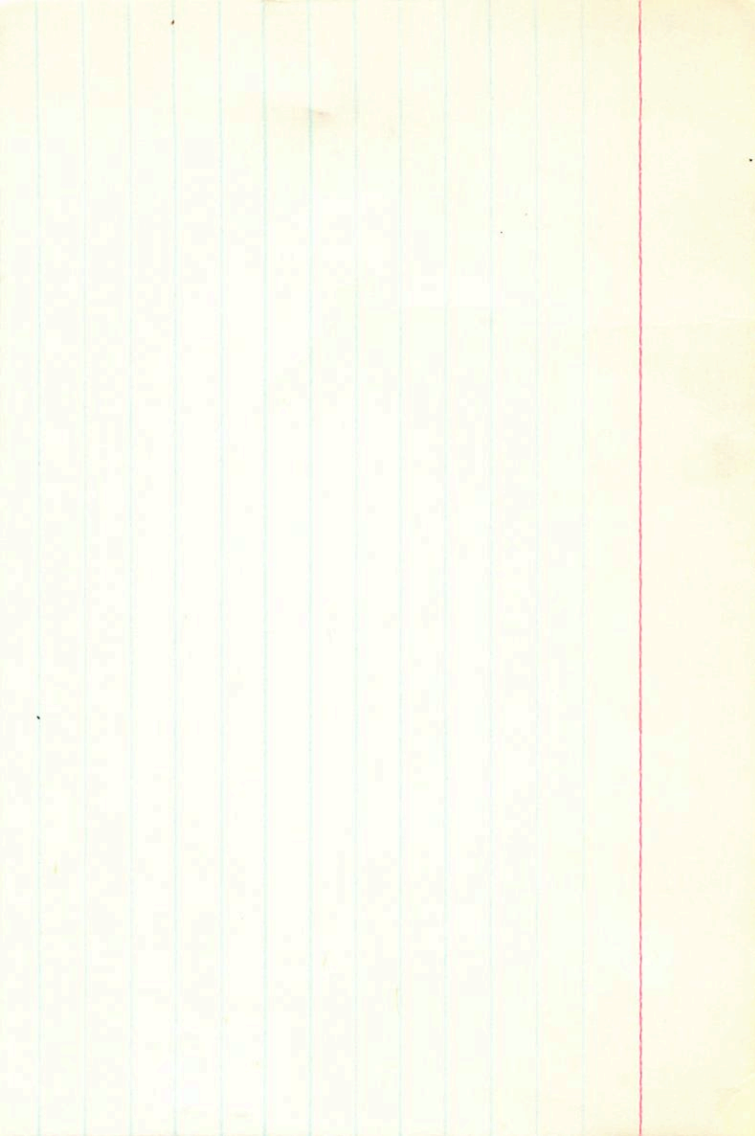
-0.9

-396 205 495

+1915 +6612

2527

-1.8



BW Bw 14 35.1 + 36 09 -14 765 0227

(28661 128661 -0544±5.0 -010 -020±7.3

+362509 5.784 9.0030 44.88 59 -018
180

-00311 -0072 850

~~90~~ 45.96
38

5.760 096.8 (52.72)

45.44 -48
44.96

124
117

5.710 91.30

45.42 -30
45.12

11
10.7

3 Lib
 128756
 19738
 9522

+0020±3.4
 +0018
 -24 49

-031±2.9
 -030
 8.1 9.120 +11.88

28.409 1904.9 -24 48 48.34 1859.9

$-\frac{90}{1,319}$
 1.319

+1.55

46.79

28.378
 $-\frac{10}{368}$

31.2

375
 $\frac{375}{056}$

47.86 1938.80

$-\frac{22}{48,08}$
 48.08

28.377
 $\frac{5}{392} + 056$

48.03 1933.40 2.20

$-\frac{4}{4807}$
 48.07

36.1

$-\frac{48.08}{1.29}$
 1.29

36.2

RV Box

14

37.2

+32

45

-3.3

+0072² - 0.0068

~~40~~

$\frac{+0.015 - 0.10}{-0.0068}$

1.000

-632 936 -245

641 674 326

-405 -645 913

-0.449 -0.349

+0.470 -0.320

-0.248 +0.241

-0.758

+0.150

-0.267

-29

+14

-30

+0.8

-1.1

-3.0

~~1556~~ 4 50 52 114 12 4.8

339 31
237

-0227 #73 -008 ± 10.0
-0205

+6401007

129333 14 37.90214 +64 -04430 7.4 d60 -30.5-8

-0222

19757

8529 56.376 1903.6 +64 30 24.39 1907.7

1.053
57.429
56.074
150

46
6466

-16
22.75
24.73

23.9 1930.3

56.83

56.197 + 5731 22.81
-16
74

-02238-041

-1448
141-038

223 + 1448
8146

7097 4184

-328

-2045 3154

-38

6206 -8357
-7841 -5942

24
-80.5



89

R.A. : 14.500
 DEC. : 24.500
 R.A. : -328.000
 DEC. : -38.000
 R.A. : 2.500
 DEC. : 33
 DISTANCE : -30.500
 VELOCITY :

1 (U) : -0.838
 2 (U) : 0.751
 3 (U) : 0.178
 4 (U) : 290.503
 U : 4.204

P1 (V) : 0.410
 P2 (V) : 0.429
 P3 (V) : 0.414

R.A. : 14.600
DEC. : 64.500
R.A. : -328.000
DEC. : -38.000
DISTANCE : 2.600
MODULUS : 33
VEL. : -30.500

0183

4138

q1 (U) : -0.636
q2 (U) : 0.751
q3 (U) : 0.178
dU : 290.508
U : 4.204

+16.4

q1 (V) : 0.660
q2 (V) : 0.410
q3 (V) : 0.629
U : 15.714

29

-0075 ± 8.7 -040 ± 8.0

9, (14)

+27.2 ± 0.9

$\sqrt{32}$

-29 05

37.0

128931 14

7.82 ± 0.44

19754

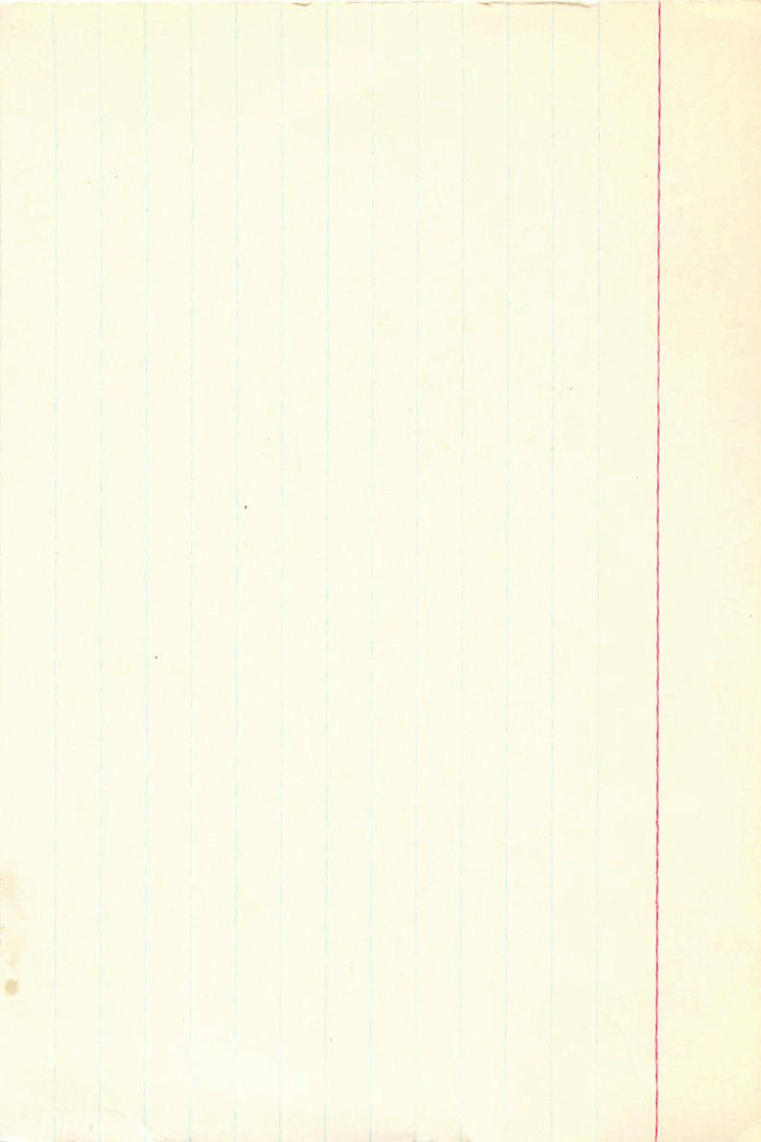
-29 5 1362 1896

1598.3

27.926

$\frac{2.16}{11.46}$

$\frac{388}{28.314}$



128771 CAL 8821

14 35.2-

-24 30

2140174-

✓ 1472 21471
CAL 382 (282)
M1 (282)
8034471
M5

1.47

6.82

108
22

+0014 ± 9.5
-13.3 ± 9.5
-110
+56
-29 09 F6E
33.0
+33 ± 1.5
9.14

129178 14 39.0

8.13 + 47

19783

57.326 1900.4 -29 8 43.54 1899.7
-069
257

6.69
36.85

21.984
3547
5745
+120
439

1941.76

+0036 -125
+0040 -115
→ 4048

7.23 1941.2

-34.44
41.17

-14
41.03

57.419
424

15.412

1933.40

411

123

-6226	126	-770	-1424	-0705	-2129	-515	-25.4
662	609	-438	+1506	-3406	-1500	-37.8	-14.4
-413	783	444	-0940	-4379	-5319	-50.0	+15.3

67

+140271

17 39.1

~~114~~ +13 49

-18.350.9 R(4)

9.40 + 0.59 + 0.060 - 2V R

S = 0.6

+44	-61	+12	<u>.025</u>
+53	-85	+18	.020
+70	-102	+29	.015
+4.			

-02627 57560- R

-382 ⁰	-087	V
		-8

31800
129312

14

36.2 + 0.8

22 22

5.0 9.5

-22.2

-0004 ± 2.4 -004 ± 2.0
-0006 -002

-21.9 (61) 19

19789

8541

11.295

1897.7

+ 8

22

28.38

$\frac{0.21}{.316}$

$\frac{+ .21}{28.59}$

11.274
 $\frac{27}{303}$

581

$\frac{290}{290}$

39.9

11.259
19

$\frac{.278}{.278} - 0.26$

28.51 1934.4

$\frac{- .27}{28.2}$

28.64 1940.70

$\frac{+}{28.69}$

96

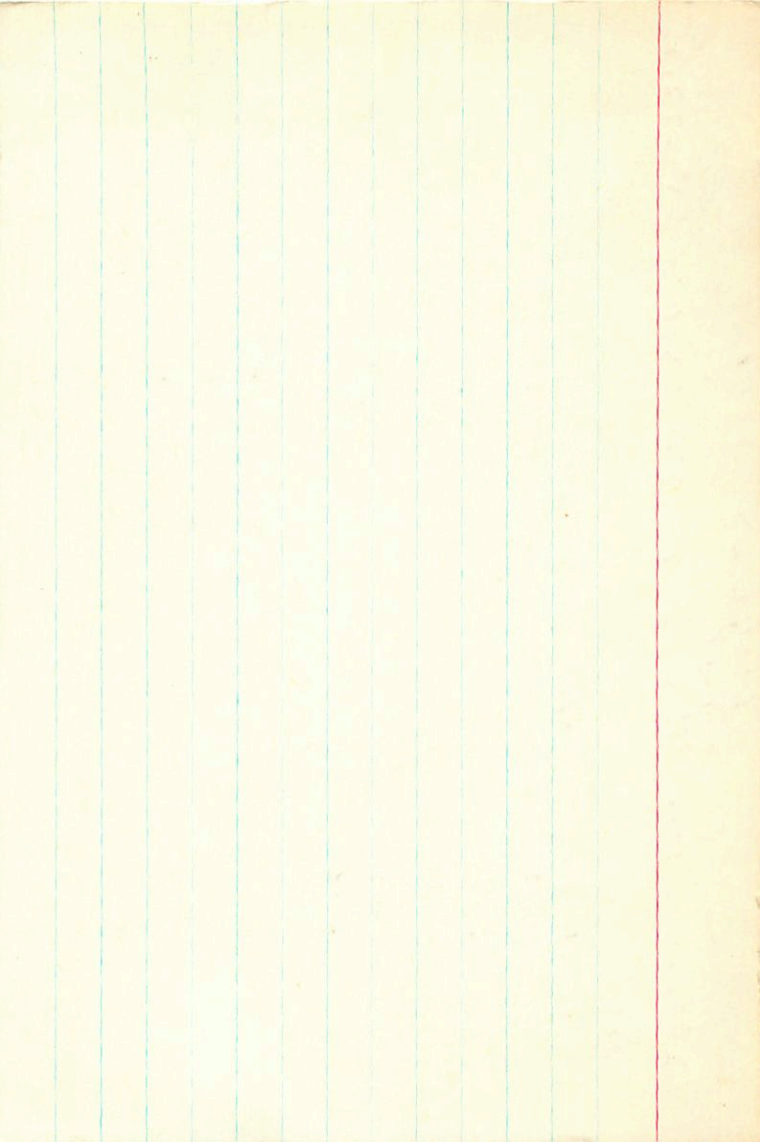
7510

$\frac{28.48}{28.48}$

37.6

$\frac{28.48}{- .11}$

(40.5)



6937

7.81

+0.635

+0.115

G2V

-33.9

129357

+29° 25' 68"

+0.033

-0.160

-0.005

-0.004

+0.038

-0.164

-0.002

+0.004

+0.026

-0.160

14^h 39^m 12.642

+0.012

12.654

14^h 39 12.630

+0.004

12.634

+29° 16' 30.93

-0.117

30.76

+29° 16' 30.50

-0.31

0.19

1928.38

1930.2

+0171 ± 5.1 -196 ± 3.2
+0178 -172

2215

129580 14 39.6 + 58 10 (7.4 d100 - 9.01
19799 8" (8.4 d67 - 10.11

-12.6

85441

A059246 35.215 1902.7 + 58 10 21.27 1894.9

-809
34,406

52.522
42.272

34.7916
80.8 15199
41635.066
35.171
4
175 + 660

(37.1)

51.6 1926.4

25.45

26.52
61/26.52

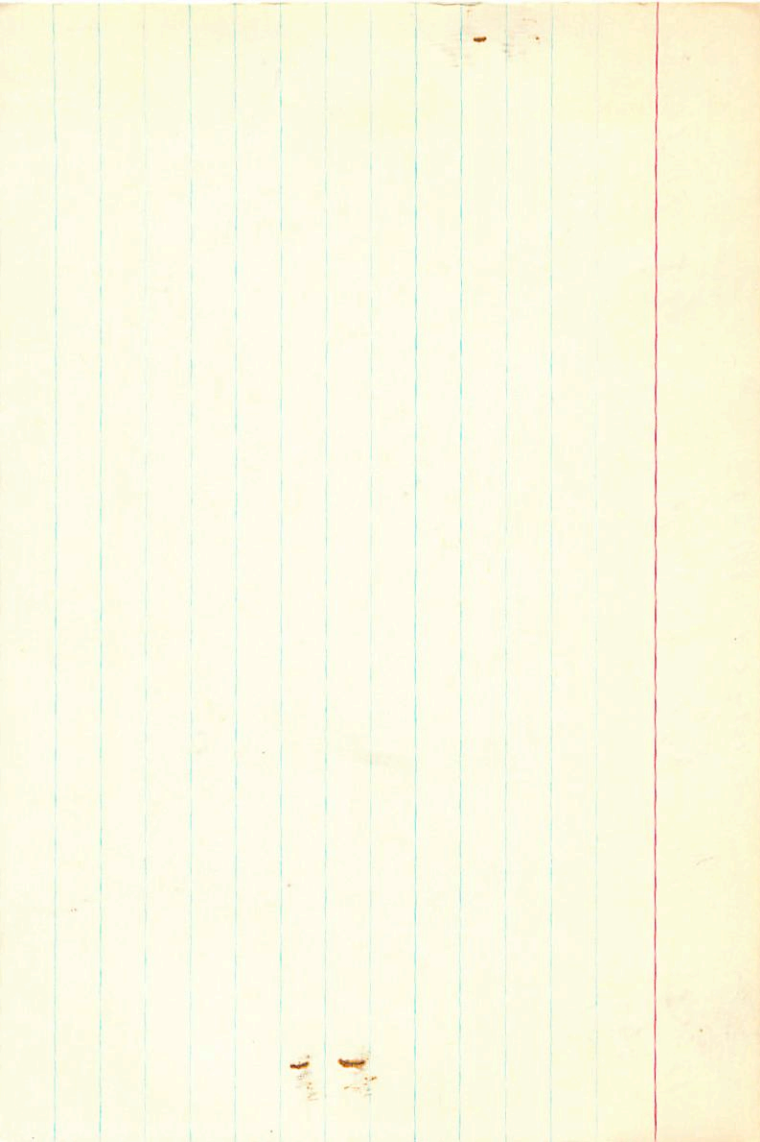
23.57 1945.56
-23
23.34

23.41 1947.29

-1
23.20

3108 11.955
2435
39.85
7.6
44.9

35192
16
706



5483

14 39.6

+ 21 20

6.32 65

$\begin{array}{r} -0.13 \\ \hline \end{array}$ -0.61 60

$\begin{array}{r} 0.3 \\ \hline \end{array}$ + 5

$\begin{array}{r} -0.15 \\ \hline \end{array}$ -0.56

-1.08

53

1

2

3

-10,976

0,900
-0,009

-32,240

0,188
-0,240

-12,546

-0,393
-0,134

-11,000

125,893

5,500*

-0,056*

-0,015*

20,000*

21,000*

39,600*

14,000*

5483,000*

55

(2pt)

9352 40.3 + 19 413 $C = -26.5$
 " 38.0 + 19 55 " $-0.255 -0.150$

Eggm Am Rev. Sect. Body 5, 10, 5, 15, 6, 7

	C	A	B	F	G	a ₁	a ₂	L	a ₁ ² / _g
I 52.04	1929.45	0.09	+579	-103	-192	-296	0.61	121	83.23
II 51.33	1929.64	0.10	+604	-076	-116	-293	0.615	119	88.50
III 52.20	1929.94	0.10	+550	-0913	-194	-290	0.58	122	71.50

$\Delta m = 0.26$

AG 9.12 + 1.29 + 1.27 (2) $\rightarrow 25.10$

8.35 + 0.57 (2) $\pi_{pt} = 0.15$

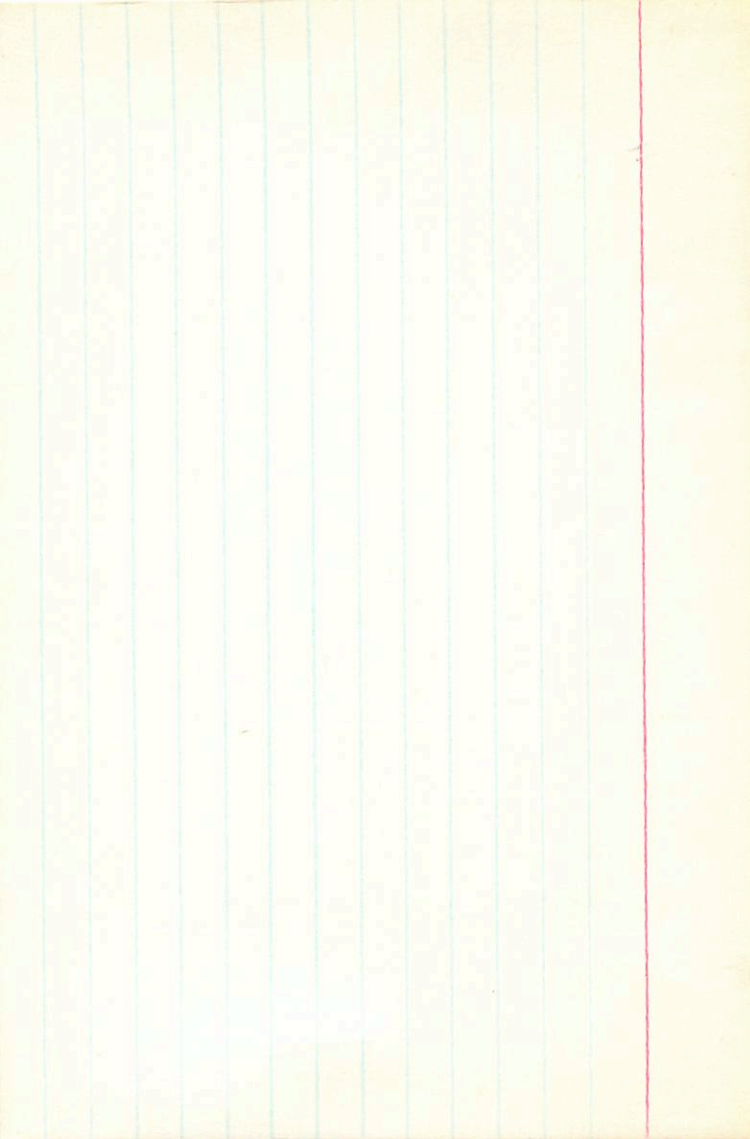
25M(6)
50S(16)

0.49 m_{min}^2
0.48 0.46 $21 \checkmark W$
+1.5 -37 -18
+1.5 -34 -16

C 10.08 + 1.34 + 1.28 (2)

6.68 9.26 + 0.585 (2) $\pi_{pt} = 0.415$

(0.46)



129456

14 40.6 -34 58 4.1 g 125 -38.5a

19820

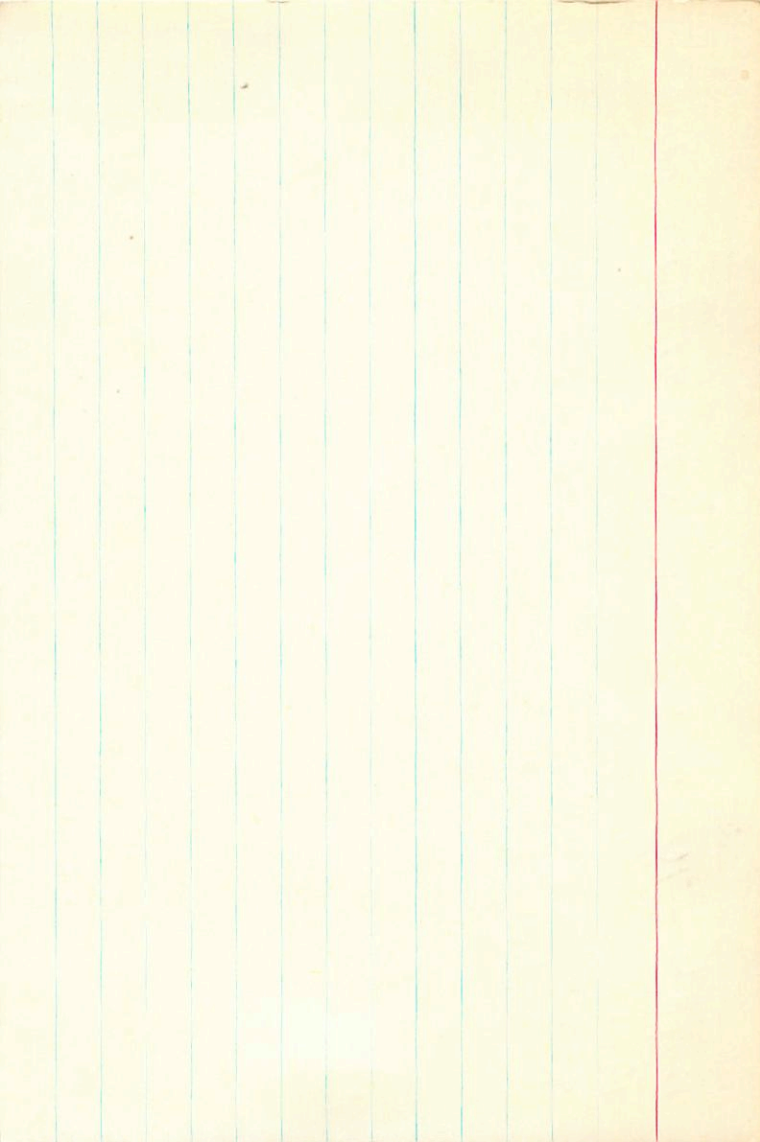
-34 28a

8552

27 180 27 130
-0055
-0052 ±2.5 -182 ±2.4 GC → PA30

HR5485

365



(BWR)

+5.6a

W B00

14 41.2

+26 44.5

M3II

34B00

b = +650

AR 5490

Dub # 51

5.0-5.4 cm

140129712

¹¹³
356 905

GC 14881

R-I R

n-M = 5.50

Went +0.95 3.58

Youghal -3 -10 +5

2439173

3.67 ^{5.14} +0.93

n-M = 5.60

9205 475 +14 +2.02

9209

3.63 +0.92

9247 479 +164 +1.90

9212 466 +164 +1.90

9248

4.07 +0.98

9214

3.61 +0.96

9286

3.59 +0.94

9217 480 +165 +1.82

820

9221

3.64 +0.94

9249

1.95 2

9236

4.05 +0.94

9255

3.55 2

2439173 4.01 + 1.17 3.67 + 0.93

285 4.75 + 1.66 + 2.02 1

289 3.61 + 0.91

292 4.66 + 1.64 + 1.90

294 3.59 + 0.94

297 4.80 + 1.65 + 1.82

287 3.63 + 0.93

266 4.06 + 0.96

267 4.79 + 1.64 + 1.90

268 4.07 + 0.98

286 3.59 + 0.94

W B00 4.65 + 1.65 + 1.90

HRS490 3.6 + 0.93

Also
menuloga

34800

129712

1785480

129712

19831

8556

41.2 +26 44

4.65 +1.57

51 49 N30

-0016 -021

-00114.8 -016 ± 1.6 66 2120

-3 -8 +8 -0123

-3 -16 +10 -007

-00105 -0204

-26

100130

14517

290

263

5.5

F154

8 M3 15.66

-30

-012 -020 66

-021 -021 430

-017 -020

116

114

111

287

3.27

122

205

240

F154

60

-00105 -0204

+84

-0176

+27

-015-017

-647 -763 449 893 -017 -020 +5.6 -009 +3 -085
-011 -006 013 007 -085 033 +5.0 -4 -3 .012

-11 0 -4
-3 1 -8 +8

-16 +2 -9

-3 -16 +10

-007

29

9.487

206.0
0.020

18.094

0.259
-0.123

-5.095

-0.332
-0.020

5.000
158.489

*000.0
-0.021*
-0.017*
44.000*
26.000*
41.200*
14.000*

5490.000*

56

129078
19834

14 41.6

-78

50

3.8

125

-0.12

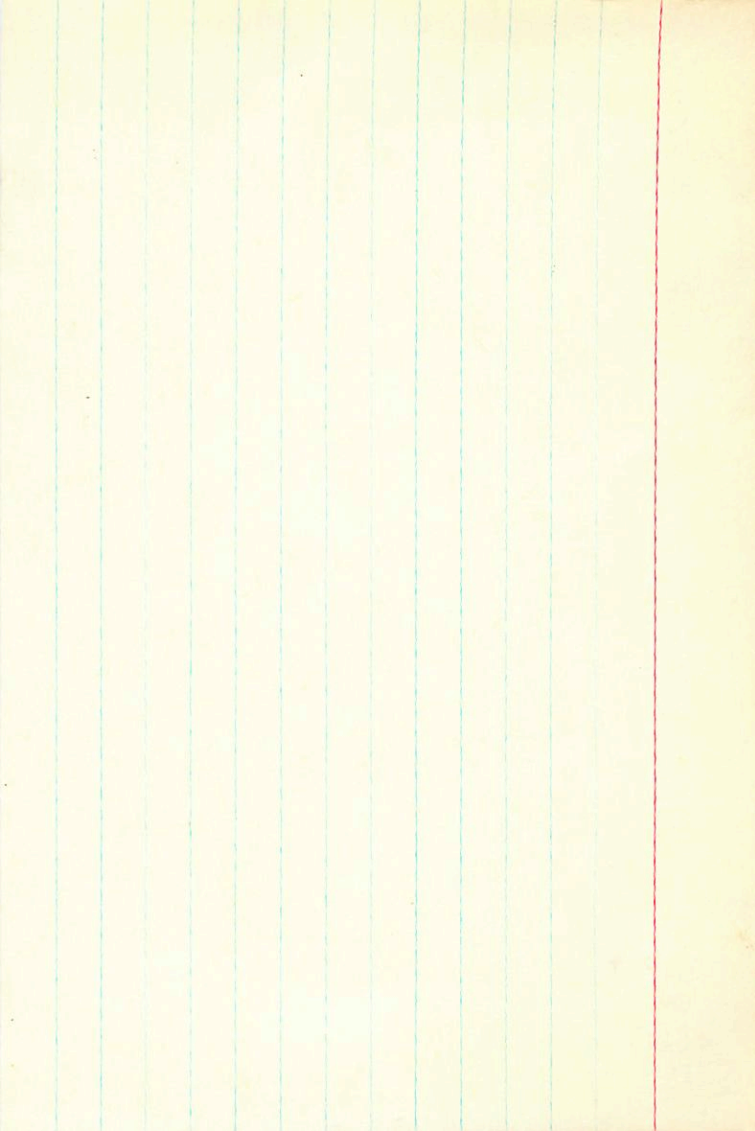
8559

12 12 12 N30

-0002 -026

-0002 ± 2.0 -024 ± 2.1 GC → N30

-1 184



5455

14 41.7

-58 19

15475

(2)

12446

-01053 -06326.7

1776

1146 24

-0112

-016

58.57 980

(NO)

11434

-0110

5328

012

201.02

27.70

3304

1068 0148

11433

-0108-054

57.97

1554-0148

11432

-0105-014

57.97

1554-0148

11431

-0102

57.97

1554-0148

154

-054-014

57.97

1554-0148

11460

0103

57.97

1554

10

372 115

1/2

3425.000*

14.000*

30.000*

-54.000*

-47.000*

-3.095*

3.085*

3.800*

34< 58.9

57.544

-3.400

3.289

-3.732

417 15.987

-3.288

-3.676

-17 -15.385

3.192

3.087

40

11.035

AD59300

3510

8000

14

20.1 + 385 SM

32 DAS_m - 35.56

HR5435 127762

3.03 + 0.69 + 0.12

-115 + 142.66

W8477 19607

A7111

-127 + 147 N

8477

65 + 14761 N30

-115 + 149 F

-0100 + 150 ± 0.8 PL → W30

-116 + 147

14 ± 5

-609 -793 623 783 -114 +147 -35.5 092 -22.1 6-41
-071 056 092 -073 009 301 -27.5 22.0 17.0

+22.4 +47.5 +1.6 023

+51.2 +1.7 -19.7

036

+22.3 110.4 -3.9 03