

15Mm

2648

52918

9293

B.1.12

B.1.12

7 80.4 -4 10

$\frac{498}{5.00} - 20 - 93$ 45

$4.99 - 20 - 90$ 3 02

$\frac{499}{499} - 20 - 912$

-070 1048 +031

$\frac{96}{127}$

-0005 000 ±10 +24.8 6

-0025

$100 + 1001$

$M_V = -3.9$

$E = +7$

V_0

4.78

8.8

$B_{V_0} - 27$

M_{B-V}

$M_V - 4.0$

~~25560~~

2648.000*

7.000*

0.400*

-4.000*

-10.000*

-0.006*

0.001*

8.800*

575.440

24.800

0.011

0.788

25.797

0.014

-0.616

-7.491

-0.023

0.011

-12.988

2658 7 00.7 -43 19 A0

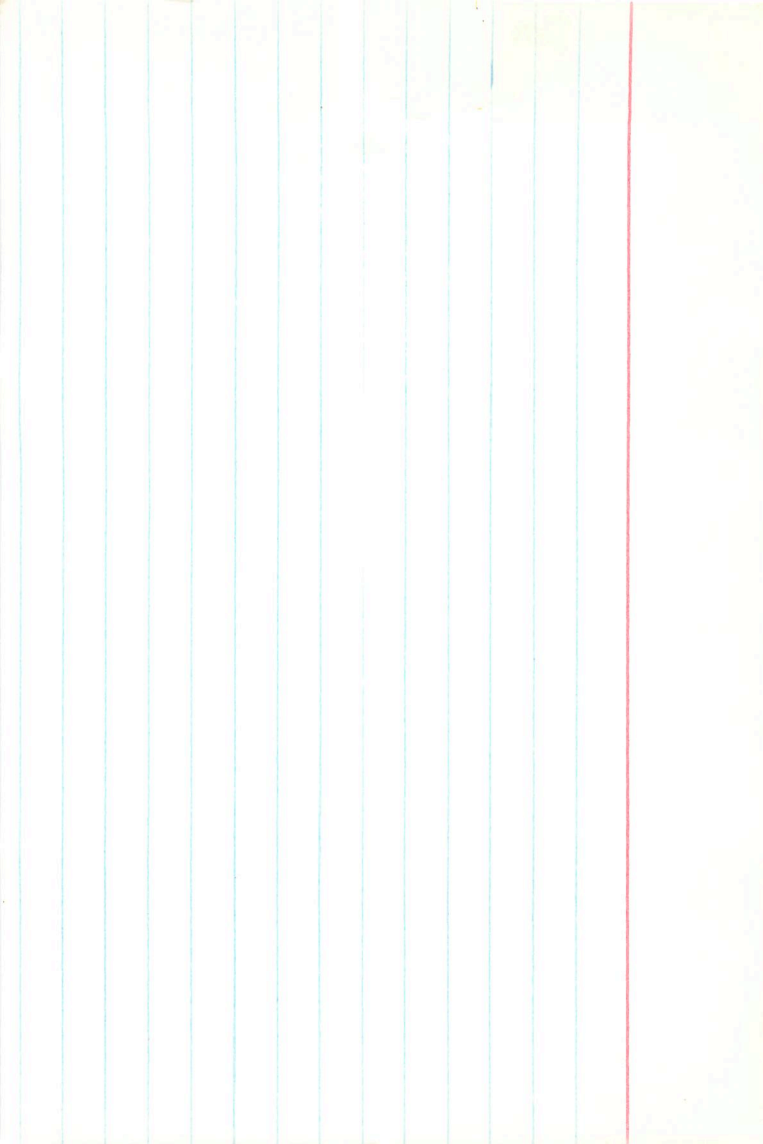
Long

6.46-22 141 874 2.874 2.874 2.874

134 978
268
1146

No end

+1.1



BATA-IV

B. IV

2688 > 05.0 -26 34

6.61 17-15

3224

~~XS~~

-072 041 199 2.645

068 213

136
349

~~5~~
(-005-012)
995

$m_v = -2.4$

2688.000*

7.000*

5.000*

-26.000*

-34.000*

-0.005*

-0.012*

8.850*

588.844

4.500

-0.038

0.516

-20.126

-0.015

-0.843

-12.715

-0.046

-0.150

-27.751

80.5 11

7 043 -11 12 80.5 12

2678

53974

9386

AB 5138 +05-86 C

6.5 0.7

+111 +032-091 B 2.585 B

12.0

-0007 +102 +310

-027

-4.6

-0103
300+ 300-

2678.000*

7.000*

4.300*

-11.000*

-12.000*

-0.000*

0.000*

9.000*

630.957

31.000

0.021

0.711

35.034

0.022

-0.703

-7.885

-0.027

-0.031

-18.011

460

-495

-21

-2204135

7.0

48

H055456

7 9.1

-25 53

+324.0

+005 -N3

⁴⁶ 365

787

-2201749

751

700

(8.0)

+011 -017 Gc

~~+004~~ 0

+005
+011 -016

55496.000*

7.000*

9.100*

-22.000*

-53.000*

0.011*

-0.016*

8.000*

398.107

324.000

-0.075

0.561

152.200

-0.053

-0.821

-286.786

0.012

-0.107

-30.125

0824

2756 7 13.4 -80 36

56342 5.34-18 124

5321

-674 099 343 2.676

676 358

182

580

5.3
190

$M_V = -1.85$

-18

+334

-017 +015

7.15

2756.000*

7.000*

13.400*

-30.000*

-26.000*

-0.017*

0.015*

7.150*

269.153

33.400

0.086

0.451

+36 38.210

0.051

-0.879

-17 -15.667

-0.040

-0.152

-15 -15.708

695
245

B212-15

2770
56779
9696

7 18.0 -36 30 B212

5.02-0.18-0.68 C

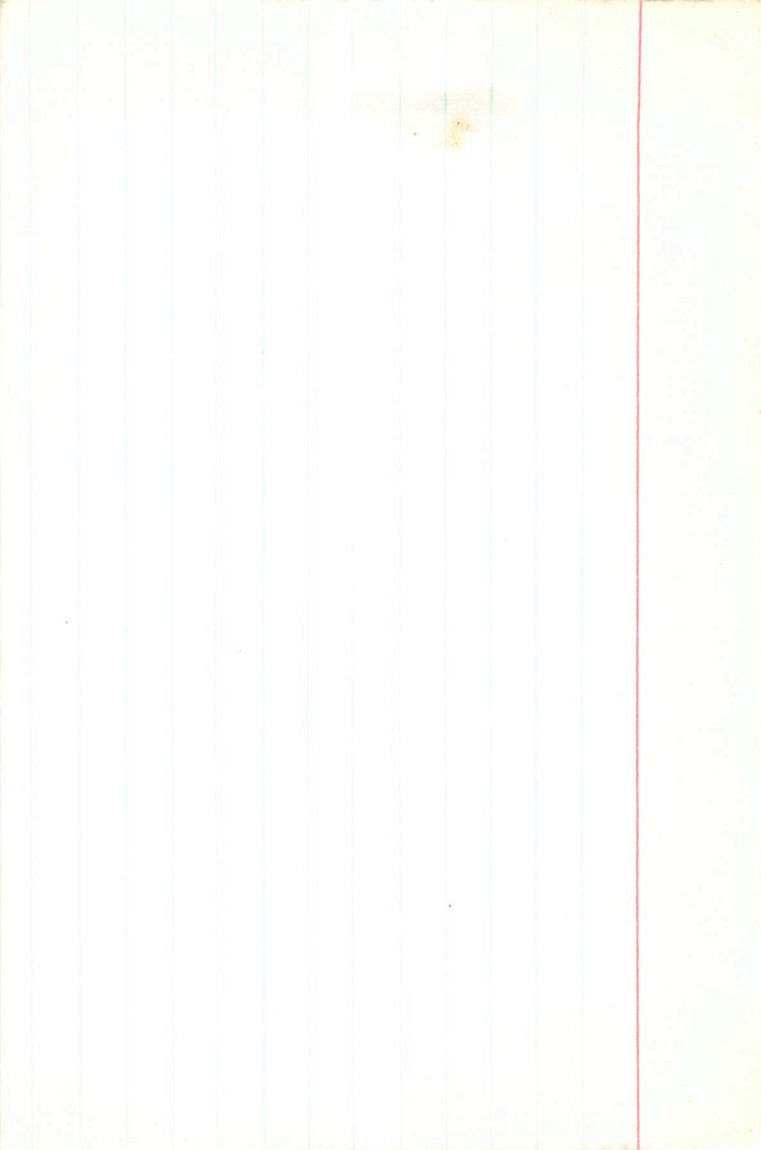
-076 +088 +254 (H) 2.450 (3)

960 266

$\frac{152}{41}$

-12 +3

You ask -2.35



BAR-E

ALLT

7

15.8

-26

42

BAR

96895

6.42-15 1.28

+15.0

-075 099 388 2676

+019-001

085 403
170
573

8.35

$M_V = -1.95$
356
6

M

2774.000*

7.000*

15.800*

-26.000*

-42.000*

0.019*

-0.004*

8.350*

467.735

15.000

-0.046

0.501

-14.130

-0.036

-0.858

-29.905

0.071

-0.114

31.371

BTB

2691 > 05.5 -40 49 09

Stubs

207

582-69 83 256 2682

(Stub) 00

-0010 000
+001 FRY +6.5

62 300
124
424

(2)

57
13
90

-0114
-007 +002

2691.000*

7.000*

5.500*

-40.000*

-49.000*

-0.007*

0.002*

7.000*

251.189

6.500

0.019

0.303

6.704

0.013

-0.919

-2.637

-0.026

-0.252

-8.093

26.99 7 07.3 -14 09 01 II

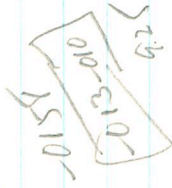
59764 6.02 + 06 1.21

16.7 107 029 - 016 2 587

048 - 037

109' 110' 110'

650
096
059



$\mu_v = 21.5$

3699.000*

7.000*

7.300*

-16.000*

-9.000*

-0.013*

-0.010*

9.250*

707.946

6.400

-0.013

0.649

-5.229

-0.005

-0.758

-8.609

-0.076

-0.060

-54.485

B2 E-D

2702

7 07.2 -39 35

B 3 E

54893

4.83 -18 -68 C

9463

4.83 -18 -62 3 J
4.83 -18 -68 5

2.726

-079 +084 +294 G

2.648 (3)

237 060 310 120
430

454

78

-012 +009 ± 2.5 +19.5 6

E +3

553
V0 474

MV = -2.5

B-V0 HE
2-V0 -705

MV -2.8

2702.000*

7.000*

7.200*

-39.000*

-35.000*

-0.012*

0.009*

7.550*

6.45 7.3
2.45 2.88

323.594

19.500

0.056

0.321

+20 +22 24.404

0.028

-0.916

-11 -10 -8.708

-0.033

-0.239

-13 -14 -15.434

26 cmc

2718

7

10.1

-25

52

B2E

55522

5.90-17 122

9.2E

-081 101 266 2.661

86	98
282	
772	
266	
2.661	

010
 roof
 7.4
 $m_v = 2.1$

2718.000*

7.000*

10.100*

-25.000*

-52.000*

-0.010*

0.004*

7.900*

380.189

21.600

0.030

0.520

22.604

0.024

-0.845

-9.211

-0.033

-0.127

-15.440

2726 7 10.7 -36 28 0315

55718 5.96-15 1.26

+17.0 -061 104 823 2.699

93 335
186

-806 +102
6.57

527

$n_1 = -1.1$

2726.000*

7.000*

10.700*

-36.000*

-28.000*

-0.006*

0.002*

6.950*

245.471

17.000

0.018

0.365

10.527

0.012

-0.908

-12.519

-0.021

-0.206

-8.695

BOPI

2739 7 12.1 -10 13 8077

55879

6.00-18 1.12

x 32.0

-041 047 -105 2.602

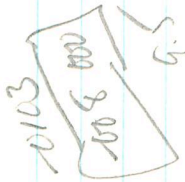
-1007 1001

070 -097

080

-017

$M_4 = -385$



2739.000*

7.000*

12.100*

-10.000*

-13.000*

-0.000*

0.000*

9.500*

794.328

32.600

0.013

0.711

33.219

0.012

-0.704

-13.020

-0.033

0.006

-26.401

27611a

2745

56014

9608

7 12.2 -26 16

var

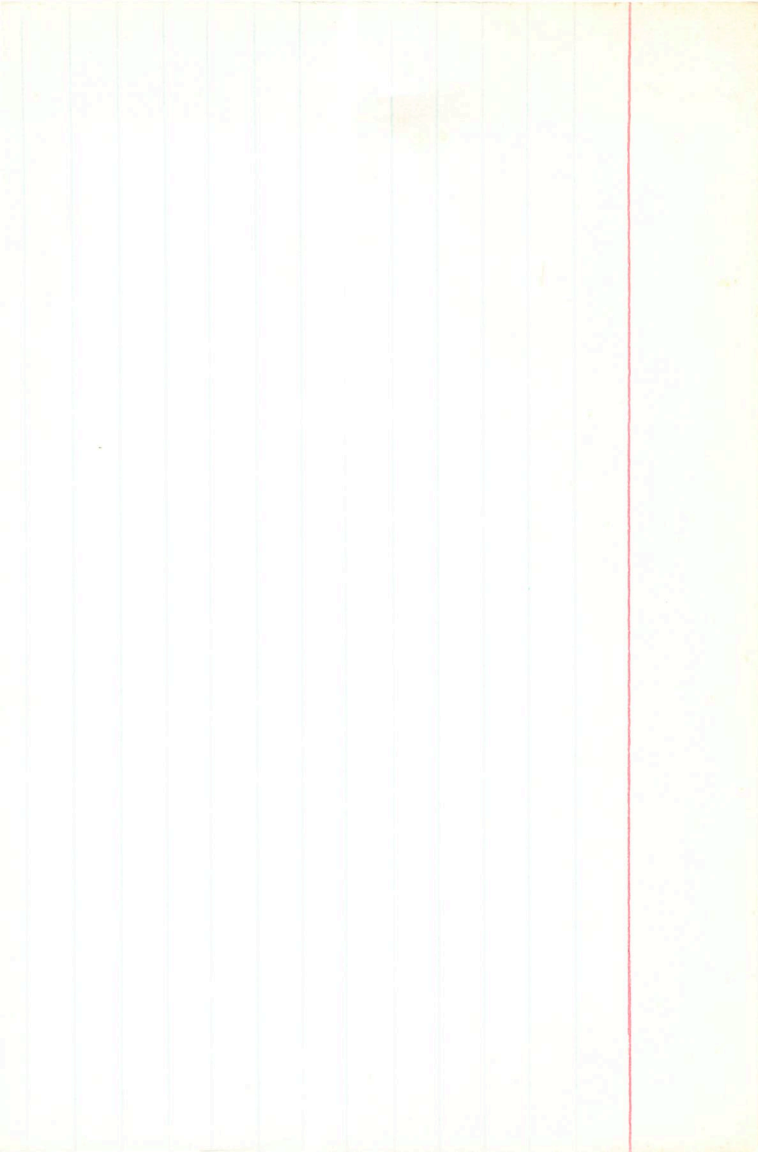
465 - 20 - 64 35

-073 + 065 + 205 2.563 (3,3)

B3 IIIp

$\Delta m = 0.1$

Flawed



2754

7 11.8

-63 06

AD

Dring

54

6.06 -18

141

985

2.883

156 989

3125
13 01

Σ

total

40.8

$\Delta m = 0.4$



2759 7 133 -41 20 BF

S. 94-16

Stop

-000/1000 +20.9

-1001-10105 F124

-0011
+003+012

2.5

S. 96-61 92 312 2640 21.59

74 324
148
472

5.850
1.210
7.

2759.000*

7.000*

13.300*

-41.000*

-20.000*

0.003*

0.012*

7.100*

263.027

20.900

0.046

0.287

18.143

0.005

-0.929

-18.028

0.036

-0.233

4.522

2474w CMA

2781

7 16.6 -24 28

025

57060

9734

vw

4.55 -15 -1.00 45

50 4.4

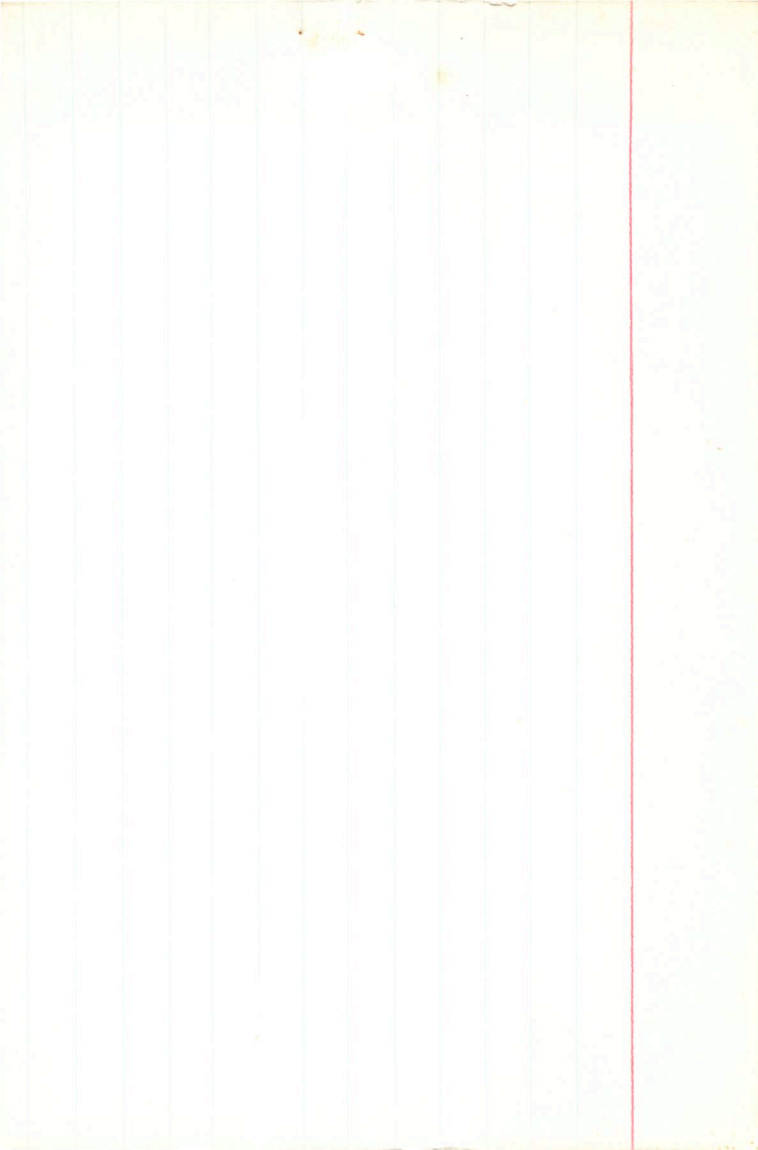
-054 +098 -173 2.5203

$\frac{166}{-7}$

varied

2.5

$\frac{-6.8}{11.3}$



B2E

38

31

238

7

2847

54766

6.30-18 1.22

2.644

882 104 247

89 263

178

441

$M_V = -2.45$

1103

102-105
885

2847.000*

7.000*

23.800*

-31.000*

-38.000*

-0.004*

-0.005*

8.850*

588.844

10.300

-0.012

0.420

-3.028

-0.002

-0.899

-10.395

-0.028

-0.127

-17.557

WCMa

2749

7 12.5 -26 41

B2 12

B2 12 - 12

56129

9625

3.82 -18 -74 35

2687

var?

-012

+072

+157

2

2.590

144

97

30

±20

+260

E + 4

-011 +010

Varied

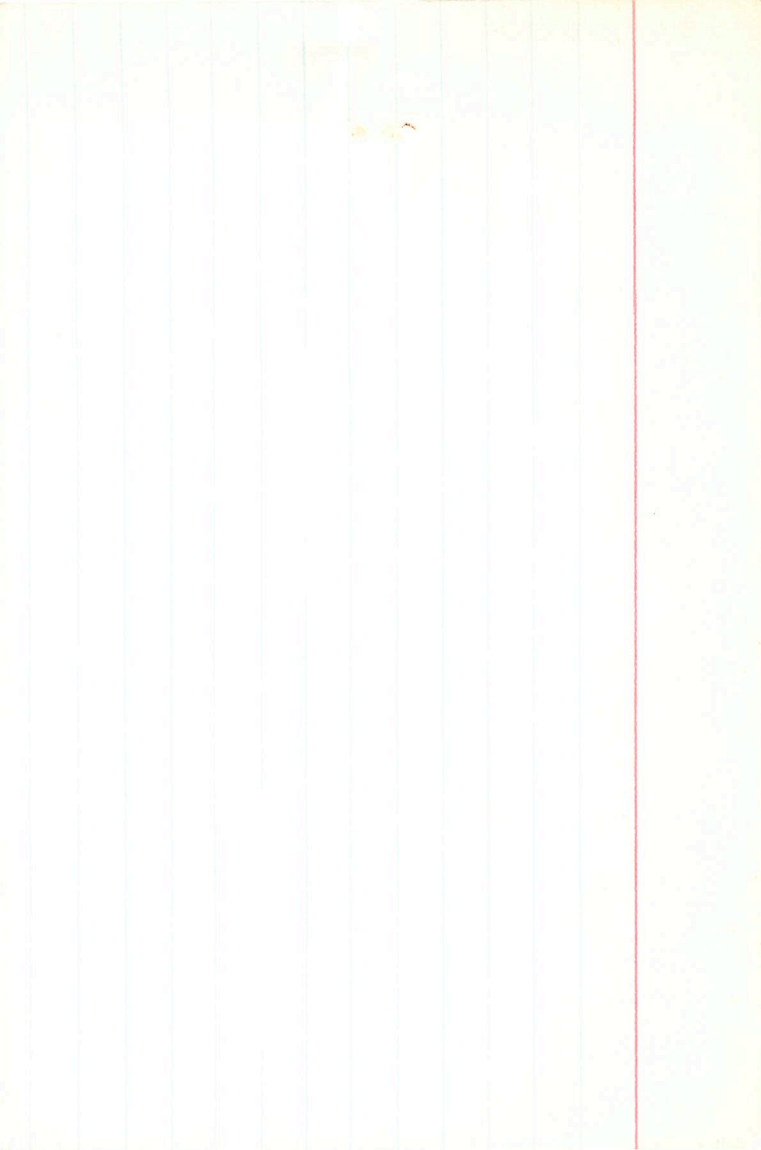
V0 3.7

2.0

B-V0 -22

21-00 -97

MV



B210-V

2824 7 22.0 -30 07

B310

58325

6.54-20 120

215

+70

-082 086 190 2.635

4550

~~-002~~
~~-003~~

071 206

142
348

M

$M_v = -2.75$

2824.000*

7.000*

22.000*

-30.000*

-7.000*

-0.002*

-0.003*

9.300*

724.436

7.000

-0.008

0.444

-2.773

-0.002

-0.888

-7.690

-0.015

-0.121

-11.638'

2825

7 2214 -16 06

58343

B2.517a
B2V

9893

5.35-06-60 Am

"
417

+030 +073 +210: 2.588

$\frac{356}{146}$

-0002 -020 ±20

-4.5W

E +15

28
-0029

000-026

$V_0 = 5.20$ (7)

$B-V_0 = -21$

$U-V_0 = -71$

$M_V >$

2825.000*

- 7.000*

22.400*

-16.000*

-6.000*

0.000*

-0.026*

7.000*

251.189

-4.500

-0.084

0.628

-24.019

-0.068

-0.778

-13.537

-0.059

-0.004

-14.777

B2.5 D

2799

7 18.8

-22 45

B3 E

57523

6.60 - 10 1.26

+100

070 104 338 2.667

F 0001

91

352

0237002

182

534

8.7

$M_V = -2.15$

!!!

2799.000*

7.000*

18.800*

-22.000*

-45.000*

-0.023*

0.002*

8.700*

549.541

10.000

0.046

0.550

30.837

0.038

-0.832

12.765

-0.092

-0.072

-51.016

2806 7 19.6 7.51 52 09 D

57192

6.40 - 19 - 1.03

+23.0

x010

+15002

10000
10000
10000

-055 041 -110 2.584

031 -084

0020

037
-0

$M_V = -4.7$

V_0 6.1
10.8

cit-163

5h-00-12

5h-00-00

9174 01

5 + 10

837

557-E 732

0.82

111

837

051

5274-5604 8104 +

58 85
35 35
540-464
456-754
38-20-954



4270

6-4 3.5

500-605-07
2100-51700
51700

100-6.000

1210-

67

200-18-56

2812

1245

9286

11

2812.000*

7.000*

20.000*

-18.000*

-56.000*

-0.009*

-0.006*

6.300*

181.970

27.000

-0.005

0.597

15.224

-0.001

-0.801

-21.887

-0.051

-0.036

-10.257

2817

6

216

+15

37

05085

6.44 - 20 - 81

②

3342 691 180 6.20 -

2819 7 21.1 -81 50 842

58155

35
35
+235

5.42-15 1.22

-075 093 816 ① 2.626

079 331

158
89
4

1111402

835

13:23 ✓
8.5.15
5.0.5
2.2.2

$\mu_V = -3.1$

9696 - 7990
8688
6879

2819.000*

7.000*

21.100*

-31.000*

-50.000*

-0.011*

0.002*

8.350*

467.735

23.500

0.027

0.421

22.478

0.019

-0.897

-12.188

-0.042

-0.137

-22.646

2823 7 21.6 -32 06 B2 $\sqrt{15}$

58286

5.38-19 1.22

+21.3

-077 096 294 2.641

082 309

144

473

$m_1 = -2.8$

$-109 + 1006$

8.15

2823.000+

7.000*

21.600*

-32.000*

-6.000*

-0.009*

0.006*

8.150*

426.580

21.300

0.039

0.416

25.637

0.022

-0.899

-9.772

-0.025

-0.138

-13.390

7Cma

2827

7 22.1 -29 12

B5I2

58380

2.48 -07 -72 ✓

9486

2.44 -09 -71.55

2.684

$\frac{2.45}{2} -05 -71.5$

+015 +055 +188 (5)

2.538 (3)

-80065 +0025 F124

$\frac{110}{258}$

$\frac{818}{148}$

$\frac{-007 +003}{-007 +003} +40.9$

E +15

V0 2.00 (8.35)

D-V0 -23

2-V0 -82

MV -6.35

2827.000*

7.000*

22.100*

-29.000*

-12.000*

-0.007*

0.003*

8.350*

467.735

40.900

0.024

0.457

29.801

0.015

-0.882

-28.978

-0.023

-0.113

-15.169

NO. 5 Empire

2855

7 24.8 -22 59

BO 14

58978

9960

+603 +031 -140: (3) 2.525 (3)

-605 +001

Und.

2956 2 249 ÷ 34 02 B2TP-V

59026

5.90-17 1.24

-063 085 245 2.65-1

074	308
148	
<hr/>	
456	

+7.0

1000 + 807

9.3

M_v = 2.45

2856.000*

7.000*

24.900*

-34.000*

-2.000*

-0.006*

0.007*

8.300*

457.088

7.000

0.039

0.383

20.381

0.018

-0.912

1.745

-0.010

-0.143

-5.440

2860

7 25.6

-22 45-

BF

Nov 1

239

42

600 -14 87 653 2654

83 656

146
822

(4)

155

-16

2885

7

294

-86

02

135 III

60098

6.68-125 1.285

2,

4210

Var 6,

6.55

-507

-013

;

2885.000*

7.000*

29.600*

-36.000*

-2.000*

-0.013*

-0.007*

8.000*

398.107

21.000

-0.004

0.347

5.737

0.009

-0.927

-15.751

-0.069

-0.144

-30.598

B2 III
B1 IV

2897 7 31.1 -14 14

60325 4.21-04-71

1217 024 061 150 2.593
-002 -010 065 145
130
225

-0029
6000
8
9.6
M_V -4.05

9

M

2897.000*

7.000*

31.100*

-14.000*

-14.000*

0.000*

-0.000*

9.600*

831.764

21.700

-0.025

0.636

+2

-7.021

-0.022

-0.770

-27

-34.783

-0.018

0.044

-7

-14.371

7/7/20

2925 7 34.5 -19 35 B = 111

61065 +220 5.71 -17 1.10

-064 075 045 2.670

+004 063 061

-0010 126
189

-0141
-011405
935

$m_v = -2.9$

225A

2928.000*

7.000*
34.500*
-19.000*
-35.000*
-0.011*
0.005*
8.350*
467.735
22.000

0.038
0.566

30.400

0.026
-0.824

-6.017

-0.034
0.011

-15.534

2932 7 35.4 -14 20

61224 6.52 -02 -30 C +11 +33

044 070 767 2.639

078 758

156
914

416.4

6.2

μ

$$m_v = -2.7 \frac{9.5}{4.9}$$

-0105

100035

-0116

0000

100035-0105

20.804 1899.6

$\frac{40}{764}$

+0009 ±8.7
-0001

-006 ±73
-015
3266 1894.6

$\frac{33}{37.33}$

+00035 -0105

11.705

20.735

27

$\frac{27}{762}$

-002

16.29

21.22

$\frac{36.51}{1.15}$

37.66

$\frac{27}{37.93}$

~~06~~

-16

193522

3932.000*

7.000*

35.400*

-14.000*

-20.000*

0.003*

-0.010*

0.900*

602.560

16.400

-0.037

0.627

-12.092

-0.031

-0.776

-31.318

-0.011

0.059

-5.577

2944

7 36.2 -25 15 B9

61424

16266

470 -11 -35- 35

ANN O.I

2 1/2

-022 +083 +758 2.703 (3)

Var luf

2947 7 34.9 -18 34 04

②
4.70 -3 94 582 2.705
93 533
186
719

129
11/10/16

2444

8254

7 88.0 -38 09

2964

61899

5.75-07 1.25

22.6

2.647

-102 066 421

$-013 + 1008$

~~121~~ 132

$n_1 = -2.8$

553

2964.000*

7.000*

38.000*

-38.000*

-9.000*

-0.013*

0.000*

8.150*

426.580

22.600

0.058

0.304

31.795

0.024

-0.943

-11.097

-0.035

-0.136

-18.146