

798

2 35 00 -64 23
5 ± 5 24 ± 3

6.56-722 853 -52 2.303 550

6.55-721 852 -54 2.300 57 610

6.55-721 853 -53 2.302 6.56-723 855-55 2.297 " " " "
6.57-725 853-57 2.302 16 Dec 79 36"

6.55-720 854 -53 - 26 Dec 79

6.53-716 844 -67 2.297 6 Oct 79

6.55-722 857 -52 - 27 "

6.55-724 863 -58 2.301 12 Nov 79 16"

6.54-708 839 -52 - 29 "

6.55-724 857 -56 2.298 14 " " 36"

6.56-717 850 -52 - 30 "

6.56-719 845 -57 2.297 21 Nov 79

6.57-724 846 -36 - 31

6.57-726 858 -53 2.295 22 "

6.55-721 854 -56 - 1 Jan 76

6.55-729 861 -56 2.295 23 " "

6.57-727 855 -54 2.300 25 Oct 79 40"

6.55-728 861 -54 2.298 24

6.56-723 856 -54 2.301 3 " " "

6.56-730 857-51 2.302 25

6.56-729 855 -41 2.297 4 " " "

6.55-727 857-53 2.301 16 Dec 79 24"

6.55-726 856 -61 2.292 13 Sep 79 36"

6.55-718 853-51 2.302 6 Dec 79 40"

6.55-724 854 -63 2.299 7 Oct 79

6.55-719 850 -49 2.299 " "
6.55-724 857 -53 2.301 " "

656-715 837-47 2304 122179

762 2 33 00 -62 41

6.80 -711 ^{±2} +845 ^{±7} +040 ^{±8} 2.300 ^{±4} 30 850

6.80 -710 ^{±6} +845 ^{±7} +040 ^{±8} 2.300 ^{±5} 50 610

6.80 -710 ^{±5} +846 ^{±8} +035 ^{±7} 2.297 ^{±4} 54 "

6.80 -710 845 +038 2.299 6.80 -710 845 +36 2.289 9 "
6.79 -704 843 +39 2.296 6.79 -704 843 +39 2.296 6.79 704 "

6.79 -701 842 +33 - 26.79 77

6.79 -709 848 +36 - 27 "

6.80 -718 861 +23 - 29 "

6.81 -715 853 +43 - 30 "

6.80 -716 845 +57 - 31

6.79 -709 844 +39 - 19.78

6.82 -713 844 +39 2.289 15.79

6.81 -713 850 +31 2.262 2 " "

6.80 -707 843 +25 2.293 3 " "

6.80 -719 853 +46 2.297 4 " "

6.80 -715 851 +24 2.290 13.5.79 7936

6.79 -709 846 +23 2.290 8.6.79

6.80 -709 844 +31 2.298 6 " "

6.79 -708 840 +35 2.296 12.7.79

6.80 -710 840 +45 2.287 14 "

6.81 -718 853 +25 2.292 21.7.79 36 "

6.81 -712 848 +36 2.294 22 "

6.79 -717 851 +43 2.295 23 " "

6.80 -715 853 +23 2.298 24

6.80 -709 845 +33 2.294 16.7.79

679-711	846	+59	2249	8 Dec 79	40"
679-714	851	+37	2295	10 "	" 36"
681-717	855	+41	2295	" "	" "
683-718	848	+40	2	12 "	" "

6.81-705 836 +30 2.297 6 Sept 80	6.80-706 835 +32 2.297 28 Aug 80
6.80-713 846 +42 2.244 27 Aug 80 36"	6.81-716 844 +48 2.296 27 Aug 80 36"
6.79-713 844 +30 2.244 11 Mar 80 36"	6.82-699 835 +48 2.302 5 " " 36"
6.80-712 852 +35 2.265 12 " " "	6.82-704 844 +39 2.290 7 " " "
6.79-714 848 +32 2.300 13 " "	6.76-709 842 +46 2.297 8 " " "
6.80-710 845 +30 2.244 14 " "	6.82-706 847 +33 2.292 10 " "
6.78-717 846 +36 2.303 15 " "	6.79-701 841 +64 2.297 11 " "
6.81-709 840 +47 2.294 16 " "	6.78-711 840 +32 2.290 12 " "
6.82-714 855 +24 2.293 23 Aug 80 60"	6.82-712 847 +23 2.297 13 " "
6.82-708 840 +30 2.298 24 " " "	6.82-708 836 +35 2.298 12 Aug 80 60"
6.82-700 834 +31 2.303 25 " " 40"	6.82-706 834 +37 2.298 16 " " "
6.80-704 827 +41 2.301 26 " " "	6.80-703 832 +32 2.296 17 " " "
6.82-700 839 +51	6.79-708 841 +32 2.292 22 " " 36"
6.83-704 835 +42 2.293 29 " " "	6.82-714 846 +33 2.299 20 " " "
6.80-713 847 +40 2.296 31 Mar 80 36"	6.82-716 849 +35 2.299 24 " " "
	6.80-706 834 +48 2.292 25 " " "



V401 egg

19 25.85 +30' 11.8 1960

23 40 6.3 1855

+30' 3592

27.83
27 51 19.9 1960
19.3 1962

^d 0.58 FO

10.8 - 11.4

11.5 ~~8~~ red
gp x's

10.0

10
EV

var + D

Std

5223

19 52 48 -0.8 21 1960

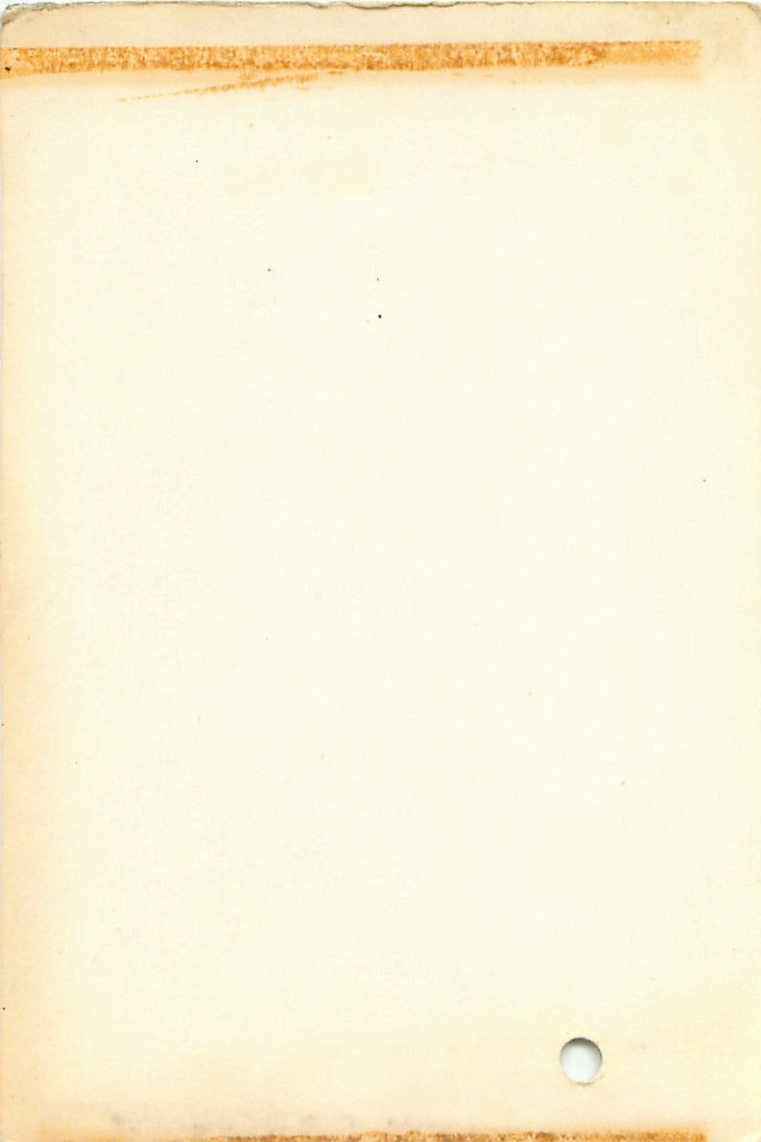
6.48 - 0.04 - 0.27

→ 54 ✓

20" Range

A 05.70 - 0.08 - 0.19 - 0.27

B 6.6.48



41176 6 02 20 -02 28.5 20 A1

7.15 -696¹⁰⁰⁵ 834 ±8 -225 ±9 2.255 ±4 25

7.15-697 840 (266) 2252 25 Feb 20

7.14-699 839-222 2255 15 Jan 21

7.14-699 836-220 2256 16 "

7.17 -701 838 -225 2.255 1 Dec 50 60 "

7.14-699 837 2228 2.259 17 "

7.15 -701 840 -229 2.258 2 " " "

7.13-704 838-2192 2.254 18 "

7.14 -696 831-229 2.260 3 " "

7.14 -695 837 (18) 2.257 20 "

7.16 -694 825 -226 2.250 29 Nov 50

7.14 -702 840 -215 2.260 21

7.15 -688 - -209 2.264 1 Jan 50

7.16 -695 837 -216 2.257 22

7.15 -705 833 -232 2.260 2 " "

7.16 -702 839 -219 2.257 23

7.15 -700 840 -222 2.258 3 " "

7.18 -696 832 -219 2.255 24

7.15 -702 837 -229 2.259 30 Nov 50

7.15 -695 830 -221 2.250 27 36 "

7.17 -697 830 -236 2.246 24 Nov 50

7.14 -700 840 -223 2.255 29 60 "

7.15 -697 827 -216 2.249 25 " "

7.14 -697 839 -211 2.262 30 "

7.17 -691 822 -220 2.246 26 "

7.18 -692 821 -219 2.248 12 11 30 "

7.16 -694 827 -226 2.242 3 " "

7.17 -702 837 -221 2.244 4 " "

7.16 -692 827 -219 2.248 5 "

AR Ploveris

32 05
17 02
18 15.4 -66° 06 (1950)

CPD -66° 3307

10.2 - 12.7

S

4:30 AM
27. March

10.05 10.535 -0.605

(D)

T Hand

60

20

48

+26

50

9.27 +1.28 +0.54 21 Aug 72
9.21 +1.22 +0.55 25 Aug 72
9.15 +1.22 +0.57 27 Aug 72
9.13 +1.276 +0.55 30 Aug 72
9.28 +1.305 +0.445 17 Aug 72

7.61 +1.475 20 Aug 72
7.68 +1.425 23 Aug 72
7.57 +1.56 20 Aug 72

(1)

new 26 July

52

74 Pa

57

26

30

47

48

4-8-82

50 d

R Oct

5

32
35

98-86

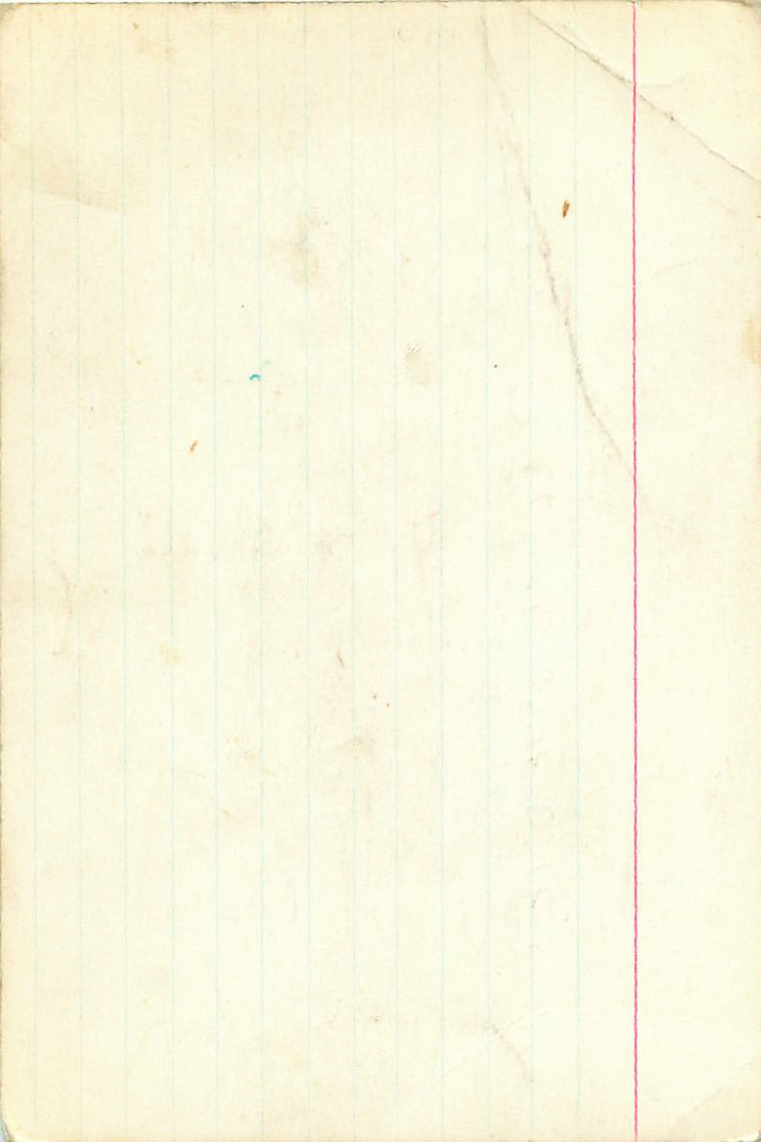
max num?

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15

6.4-13.2
21 405-d
22.0

12.78 +1.93 +0.28 81 Mar 73
10.72 +1.735 +0.58 27 Aug 23

7.39 +1.82 1 Apr 73
6.42 +1.97 30 Aug 23



15598	2	29	25	-5	07	25	3 Jan 70
7.68 -669 ^{±4}	933 ^{±6}	96 ^{±9}	2393	(13)	7.67 -662	929 +107	13 Jan 70
7.66 -661	929 +99	2392	2 Jan 71		7.66 -669	936 +101	2399 19 Jan 70
7.66 -666	924 +97	2386	1 Jan 70		7.67 -670	938 +95	2383 "
7.68 -664	933 +109	2394	24 Sept 70	60"	7.67 -667	929 +104	2388 19 Oct 70
7.68 -668	935 +107	2395	12 Aug 70	"	7.68 -666	931 +94	2386 20 "
7.68 -670	934 +99	2393	16 " " "	"	7.67 -669	935 +97	2388 21 "
7.67 -673	934 +99	2396	17 " " "	"	7.67 -665	931 +93	2388 22 "
7.70 -667	924 +96	2389	23 Aug 70	36"	7.67 -672	939 +97	2391 23 "
7.67 -674	942 +90	2390	24 " " "	"	7.69 -662	924 +112	2392 6 Oct 70
7.67 -670	926 +74	2390	25 " " "	"	7.68 -661	927 +85	2388 21 Sept 70
7.68 -667	926 +101	2396	26 " " "	"	7.67 -661	922 +98	2389 23 "
7.68 -672	936 +84	2396	27 Aug 70	"	7.66 -662	931 +96	2395 1 Oct 70
7.66 -678	942 +92	2403	5 Sept 70	60"	7.67 -664	930 +97	2395 2 " " "
7.68 -672	940 +97	2394	6 " " "	60"	7.66 -663	931 +93	2390 3 "
					7.68 -665	925 +100	(2382) 28 Nov 70
					7.68 -661	927 +97	2383 29 "

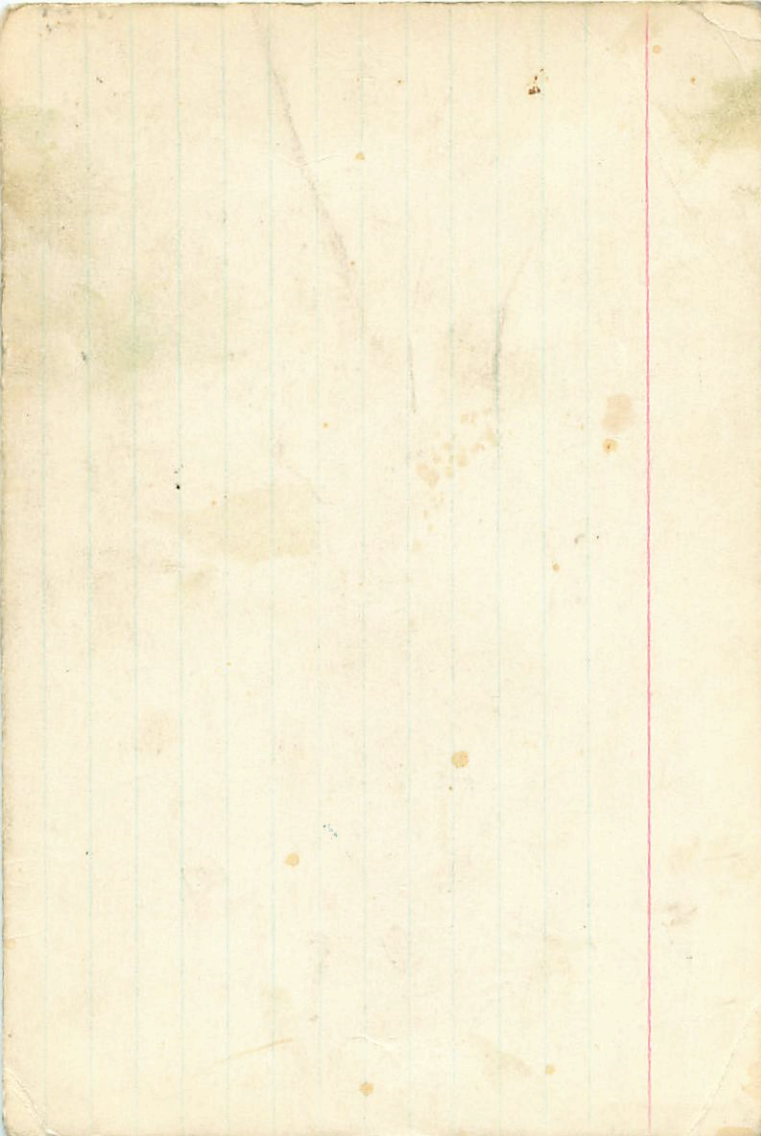
11 54 00 +12 45 163 R5 MRB
 12 37.0 +67 09 62-121 VM
 145A

March - up R VM
 Company
 Sub for R VM
 Sub for R VM

9.30 +1.41 18 Jan 73
 9.54 +4.37 19 Jan 73
 9.44 +4.30 - 20 Jan 73
 9.31 +4.23 21 Jan 73
 10.56 +4.26 - 28 Jan 73
 10.73 +4.46 19 Feb 73
 10.74 +4.44 22 Feb 73
 7.65 -1.40 23 Dec 71
 7.78 +1.45 27 Dec 71
 7.77 +1.44 28 Dec 71
 7.56 +1.40 29 Jan 72
 7.50 +1.44 20 Jan 72

12 48 47 +04 19 8-14
 and Van
 12 22 36 +06 09 8.05 MY
 12 22 36 +06 09 8.05 MY
 167437
 6 man → Bobb
 Van

167437



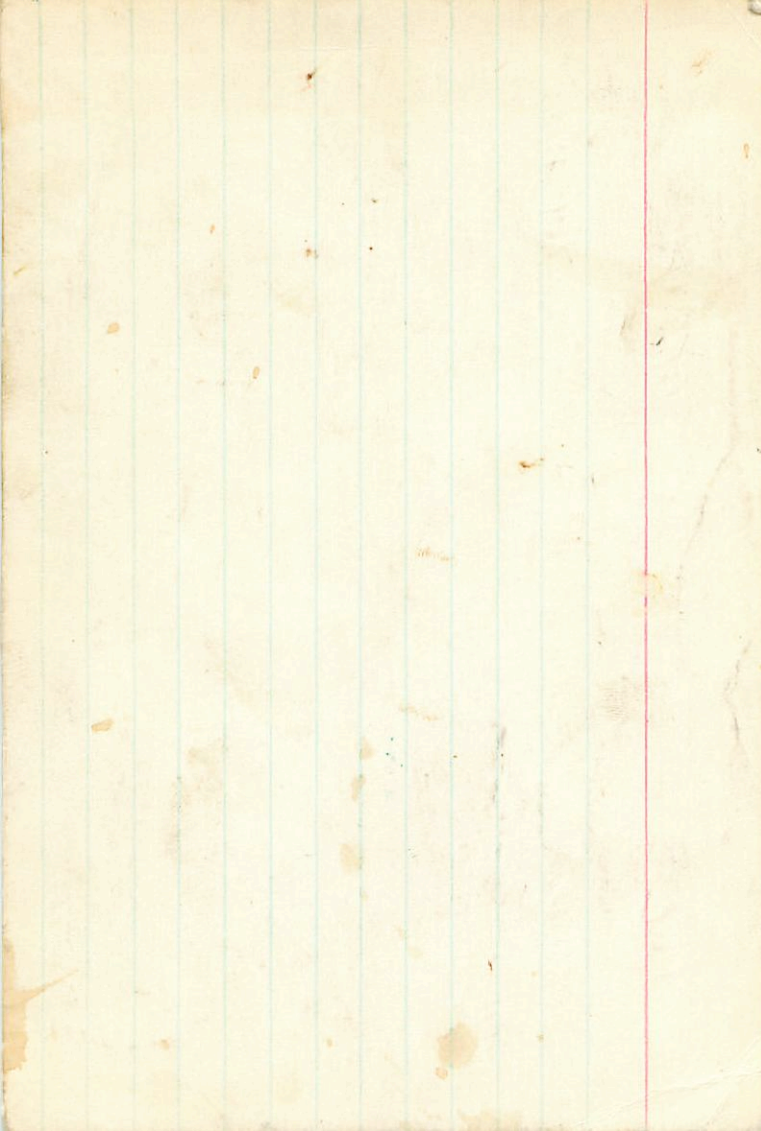
T Mc 22 38 28 -61 43 250
41 77.108

8.49 +162 +1.10 13 Oct 71

~~11.11 +128 +1.88~~
9.53 +1.41 16.59 27/1/73

7.07 +1.305 18 Oct 71

8.07 +1.785 22/1/73



$\frac{V_{max}}{R_L}$

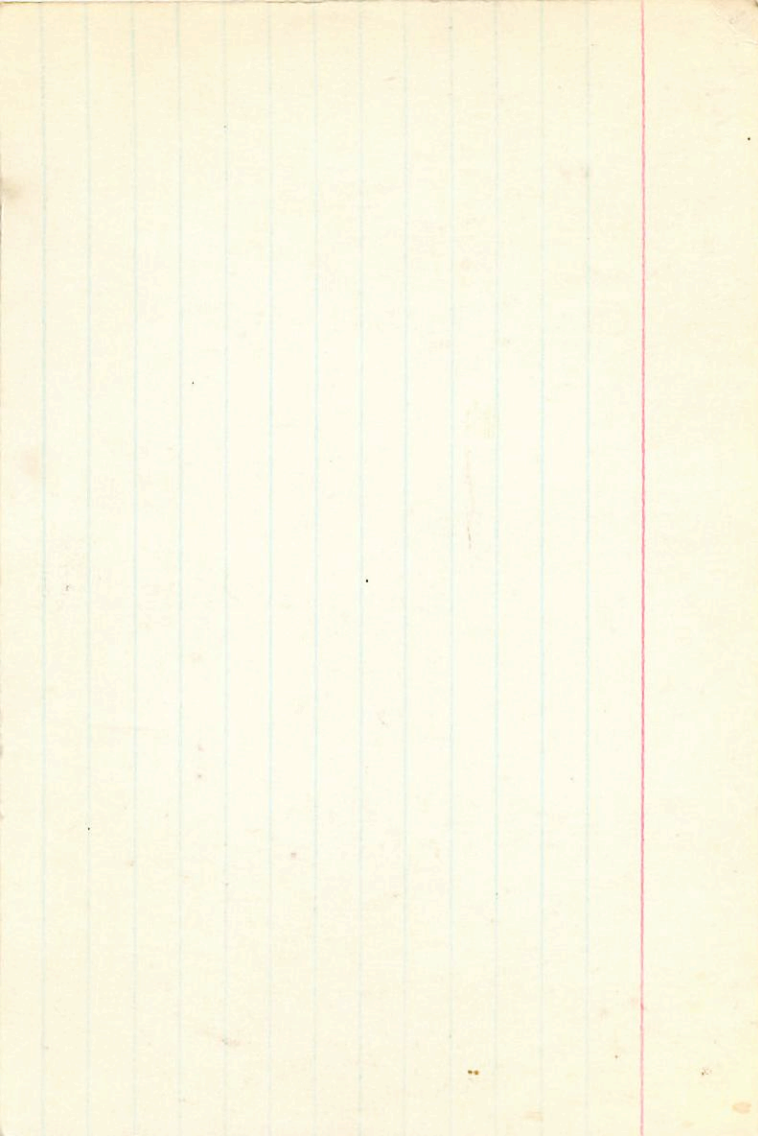
59643 7 30 02 +24 35

MBVPI

Benjamin Franklin S

①

• RA!



run N665999⁰⁰

31 ✓ I
33 10.0 8.0

W112-02

15 50 10 -56

W112-03

15 50 56 -56 20 120 9.7

W109-02

15 48 25¹⁵ -56 52.5 9.5 8.5

11.29 +2.24 - 27 July 73

112-02 11.33 +2.165 - 2 July 73

105-02 11.30 +2.41 - 2 July 73

11.40 +2.57 - 2 July 73

9.87 +1.02 - 20 July 73

9.16 +1.35 - 20 July 73

run N665606

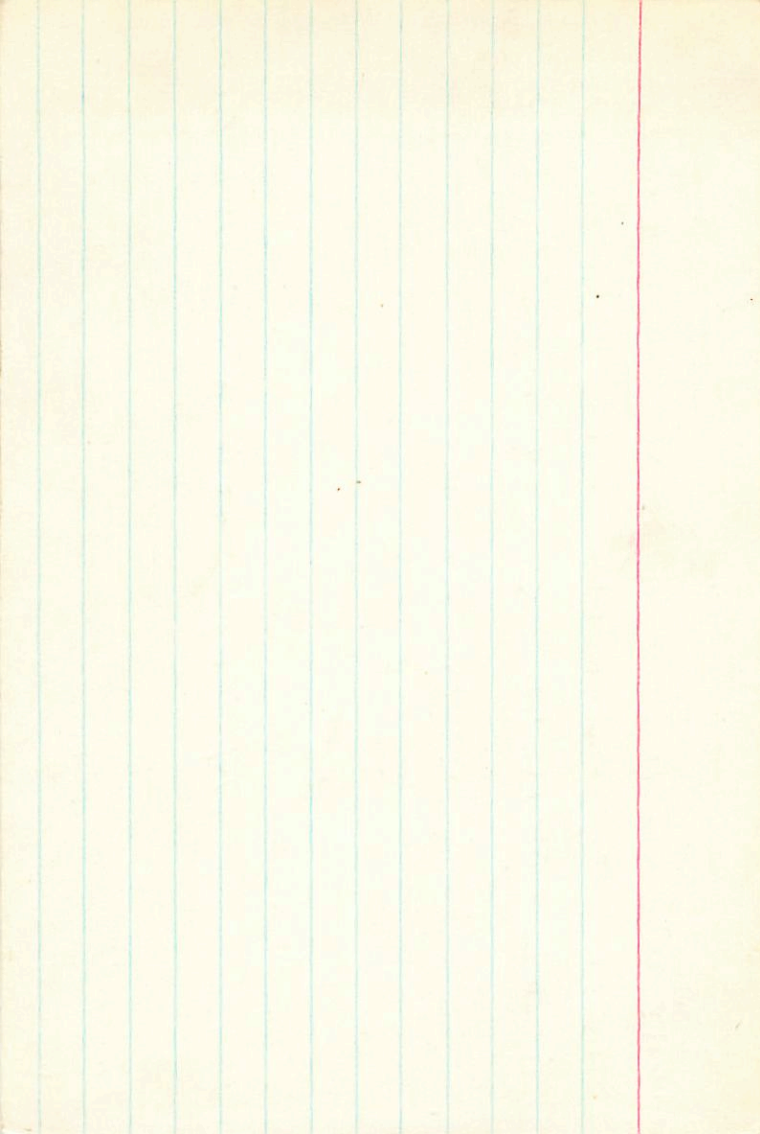
095-03

14 24 13 -54 53.5 10-0 6.0

231

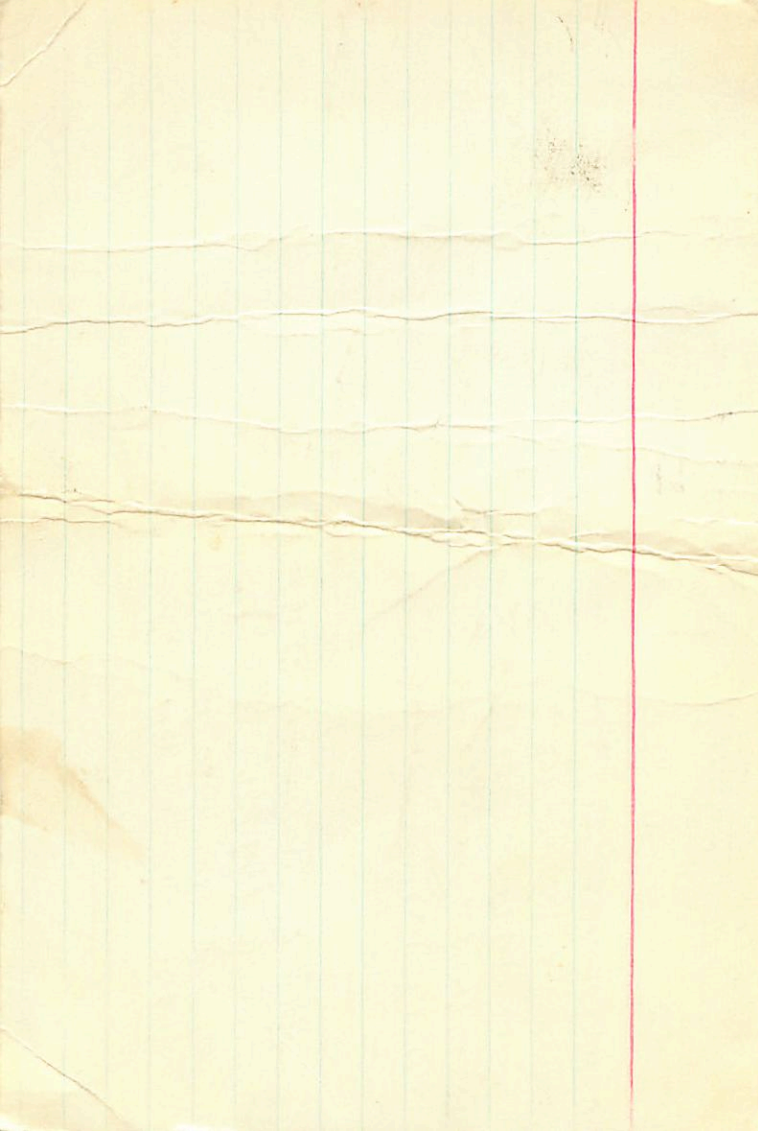
11.39 +3.30 - 3 July 73

11.51 +3.48 - 2 July 73



124448	9.58-482739	-746	2.024	15 Aug 77	1007-65965	-765	1.579	24 Aug 77	
124540	[9.01-418 9.02-600]	911 882	313 361	27 Aug 77					
124447	8.68-720	807	-359	"	→ 841	-728	827	-44	24 Aug 77
125825	8.26-650	793	-29	"	→ 8.25	-665	824	-28	24 Aug 77
124144	8.59-636	921	+109	"	"				

173850	8.59-552	-776	-314	2.157	15 Aug 77
173744	7.12- 644	856	+120	2.357	"
170987	8.43-367	620	-910	2.088	"
173673	7.72-642	788	-301	2.286	"



✓
G 112-44 + 0° 20' 58" (BD) (common μ , sep = 14") $\mu = 0.33$

$$\alpha_{1950} = 0^h 41^m 11^s \quad \left. \begin{array}{l} 12.5 \\ \sum_{1950} = +00^{\circ} 03.5' + 1 \end{array} \right\}$$

60" Jan 28/29, 1965 11.29 0.48 -0.20 0.21

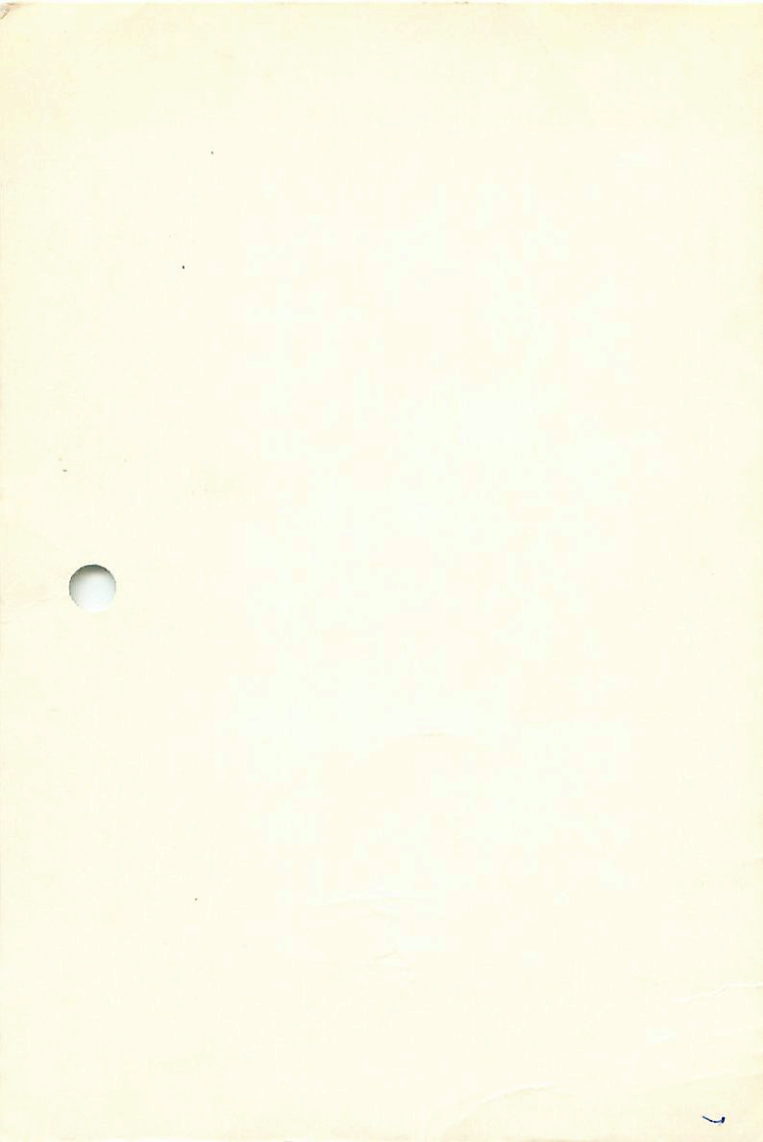
G 112-43 + 0° 20' 58" (BD) (common μ , sep = 14")

"
 $\mu = 0.33$

$$\alpha_{1950} = 07^h 41^m 11^s \left. \vphantom{\alpha_{1950}} \right\} 11.5$$

$$\delta_{1950} = +00^{\circ} 03.3' \left. \vphantom{\delta_{1950}} \right\} +1$$

60" Jan 28/29, 1965 10.27 0.44 -0.17 0.17



W018-06

8 05

50

-29

43 ←

N

2533-104

8 05

02

-29

39.3

11.2 + 4.1

W019-07

→ 8 08 54

-29 27

8 08 06

-29 23.6

5
①
←

①
↓

10

←

→ 8 09 35

-29 00

8 08 08

-28 56.3

11

W018-08

→ 8 04 24

-29 52.5

8 03 36

524 494

①
←

←

W018-05

8 03 36

524 494

...
①

HD 93030

Θ Car

2.8
BA5 V_h 5TD

HR 4199

10^h 39 23 - 63° 52

10^h 42 03 - 64° 15.5

- .102 .071 - .075 2.600 2.8 80.5 V_p.

762 2.33 00 -62 41

6.83 -708 850 +18 2.294 8 2880
6.81 -703 830 +15 2.291 7 2880

6.80 -711 845 40 2.300 (30)

6.82 -708 846 +40 2.293 6 2880

6.80 -710 845 40 2.300 (50)

6.81 -711 841 +80 2.291 5 2880

6.80 -710 846 35 2.297 (54)

6.81 -706 840 +26 2.296 4 2880

6.80 -712 848 36 2.294 (26)

6.81 -705 835 +37 2.294 3 2880

6.80 -711 846 38 2.298 (154)

6.80 -704 832 +43 2.295 2 2880

6.79 -710 846 +32 2.294 26 Jun 80

6.80 -708 853 37 2.291 21 Nov 79

6.80 -710 847 +31 2.295 5 Jun 80 36"

6.80 -713 849 +33 2.293 22 "

6.79 -715 854 +33 2.296 6 " "

6.79 -707 843 +37 2.294 23 "

6.78 -712 846 +35 2.298 7 " "

6.80 -707 839 +50 2.290 24

6.79 -714 851 +29 2.294 8 "

6.79 -715 850 +39 2.288 25

6.79 -711 845 +30 2.292 9 "

6.80 -712 846 +31 2.290 26

6.79 -707 846 +33 2.300 14


6.79 -715 845 +39 2.291 9 Jan 80 36

6.80 -713 845 +44 2.300 16
6.80 -708 842 +26 2.294 10 Jan 80 36 "



—

Finding chart for the new flare star. The field is a 12' square,
reproduced from the Palomar Sky Survey red print. (Copyright by National
Geographic Society-Palomar Sky Survey; reproduced by permission.)



Bond's
plant

23

30

30

-02

53

1977

15.0

check

748	2 ⁵	39	00	-64	23
6.56	-723	851	-57	2.301	(23) 6.54-721 847-51 2.300 25 Nov 70
6.56	-722	853	-52	2.303	(50) 6.55-725 856-57 2.300 29 "
6.55	-721	852	-57	2.300	(57) 6.56-716 836-49 2.302 30 "
6.55	-723	854	-53	2.299	(26) 6.55-720 849-63 2.306 24 Nov 70
6.56	-719	848	-57	2.300	(53) 6.56-722 854-59 2.304 25 "
6.56	-721	852	-54	2.300	6.55-723 852-54 2.301 26 "
					6.55-724 (841) -52 2.302 28
6.55	-730	861	-69	2.303	21 Sept 70
6.55	-721	846	-68	2.292	23 " "
6.56	-718	835	-49	-	23 Nov 70
6.55	-725	848	-48	2.295	24 Nov 70
6.55	-723	851	-55	2.290	25 " "
6.55	-722	852	-58	2.302	26
6.56	-724	841	-50	2.295	27 " 70
					6.56-727 858-64 2.305 21 Jan 71
					6.56-727 863-65 2.305 22
					6.56-728 860-64 2.307 24
					6.56-721 848-57 2.301 27 Jan 71 36 "
					6.56-725 857-58 2.305 25 " 60 "
					6.57-718 857-61 2.305 30 "
					6.56-720 848-56 2.307 17 Jan 71 36 "
					6.55-720 849-57 2.302 2 " "
					6.56-729 858-57 2.302 5 "

53-89

-1136	2027g	-1122	27Nov78	-1130
-1133	47Nov79	-1141	12Nov78	-1141
-1155	2127g	-1142	2Nov78	-1136
-1134	4247g	-1162	27Nov78	1134
-1134	17Nov79	-1169	26" "	1141
-1135	5277g	-1151	9Nov78	1126
-1155	20Nov78	-1065	15Jan79	1126
-1116	7Dec78	-1113	16" "	1134
-1167	5Jan79	-1086	11Nov78	-1111
-1162	11Jan79	-1094	13" "	-1116
-1124	6Feb78	-1151	2Nov78	-1111
-1102	3Jan79	-1152	6Nov78	-1123
-1119	2Nov79	-1159	5" "	-1134
		-1143	4" "	

-1140

-18