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C4 MW 1047

0 1 2 3 4 5 6 7 8 9

7

Ex. 1, 3, 5 (c)

8

10

9.5 Ex 2 (a)

9.0

8.5

8.0

7.5 Ex 4 With Screen (b)

7.0

6.5

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Variables in M5

May 17, 1913

No 76

K 10458
g 3, 1 h

K 10973
g 3, 1 h

K 10808
h 2, 1 l

K 10974
g 3, 2 h

K 10805
g 3, 1 h

K 12123
g 3, 1 h

K 10967
g 3, 2 h

K 10806
g 3, 2 h

K 8452
g 2, 3 h

K 8467
h 2, 1 l

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Variables in M5

May 17, 1913

No 46 V 8453
g 3, 2 h

V 10804
g 3, 1 h

V 10460
h 2, 1 l

V 8358
l 3, 1 m

V 10458
l 1, 3 m

b 10149
g 3, 1 h

MW 85
l 3, 1 m

MW 112
g 3, 1 h

MW 108
g 3.0 h, 2 l

MW 86
l 1, 3 m ?

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Variables in M5

May 17, 1913

No 76

MW 110
h 2, 1 l

MW 84
h 2, 1 l

MW 106
h 2, 1 l

MW 111
h 2, 1 l

MW 104
h 2, 1 l

MW 82
f 3, 1 h

MW 109
h 2, 0 l, 3 n

MW 105
h 2, 1 l

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Variables in M5
May 22, 1913

No 77

V 10452
h 2, 1 l

V 10458
l 3, 2 m

V 8358
h 2, 1 l

V 10460
q 3, 1 h

V 10804
q 1, 3 h

V 8453
q 3, 1 h

V 8467
q 1, 4 h

V 8452
q 3, 0 h, 3 l

V 10806
q 3, 1 h

V 10964
q 3, 1 h

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Variables in M5

May 22, 1913

No 77 V12123
h 1, 2 l

V10805
h 1, 2 l

V10974
h 1, 3 n

V10808
g 3, 0 h 2 l

V10973
h 2, 0 l, 3 n

b 10149
h 1, 2 l

MW 85
h 1, 2 l

MW 112
h 1, 3 n

MW 108
h 1, 2 l

MW 86
g 1, 3 h

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Variables in M5

May 22, 1913

No 77

MW 110
h 2, 1 l

MW 84
h 2, 1 l

MW 106
h 2, 1 l

MW 111
l 1, 3 n

MW 107
h 2, 1 l

MW 82
h 2, 2 n

MW 109
h 2, 0 l, 3 n

MW 105
h 3, 1 l

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Variables in M5

May 27, 1913

No 78 ✱10973
l 1, 4 m

✱10808
h 2, 1 l

✱10974
l 2, 3 m

✱10805
h 1, 2 l

✱12123
h 2, 1 l

✱10967
q 3, 1 h

✱10806
h 2, 1 l

✱8452
q 4, 1 h

✱8467
q 4, 1 h

✱8453
q 2, 3 h

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Variables in M5

May 24, 1913

No 48

V 10804
g 3, 1 h

V 10460
b 1, 4 w

V 8358
g 3, 1 h

V 10458
h 2, 1 l

V 10452
h 2, 1 l

b 10149
h 2, 1 l

MW 85
h 2, 1 l

MW 112
g 3, 1 h

MW 108
h 2, 2 w

MW 86
g 3, 1 h

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Variables in M5

May 24, 1913

No 78

MW 110
h. 1, 2 l

MW 84
h. 2, 1 l

MW 106
h 2, 1 l

MW 111
h 1, 2 l

MW 107
h 2, 1 l

MW 82
h 2, 1 l

MW 109
h 2, 1 l

MW 105
h 2, 1 l

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Variables in M5

June 2, 1913

No 79

Ψ10452
h 1, 4 m

Ψ10458
h 3, 1 l

b10179
h 1, 3 m

Ψ8358
g 3, 1 h

Ψ10460
h 2, 1 l

Ψ10804
g 3, 1 h

Ψ8453
h 1, 3 m.

Ψ8467
h 1, 3 m

Ψ8452
h 1, 2 l

Ψ10806
g 4, 1 h

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Variables in M5

June 2, 1913

M 5 / 9

V 10967
h 2, 1 l

V 12123
h 2, 1 l

V 10805
l 1, 3 n

V 10974
g 3, 0 h, 2 l

V 10808
h 1, 2 l

V 10973
h 2, 1 l

MW 85
g 3, 1 h

MW 112
g 3, 1 h

MW 108
l 1, 3 n

MW 86
g 3, 1 h

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Variables in M5

June 2, 1913

No 79

MW 110
h 2, 1 l

MW 84
h 1, 2 l ?

MW 106
h 2, 2 n

MW 111
h 2, 1 l

MW 107
l 1, 3 n

MW 82
l 2, 2 n

MW 109
h 2, 1 l

MW 105
l 1, 3 n

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Variables in M5

June 10, 1913

No 80

MW 112
h 2, 1 l

MW 85
h 3, 1 l

MW 108
g 4, 1 h

MW 86
h 1, 3 n

MW 110
h 2, 1 l

MW 84
h 2, 1 l

MW 106
g 4, 0 h, 3 l

MW 111
h 3, 0 l, 4 n

MW 107
g 3, 1 h

MW 82
h 1, 2 l

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Variables in M5

June 10, 1913

No 80 MW 109
h 2, 1 l

MW 105
h 1, 2 l

b 10149
g 3, 1 h ?

V 10452
h 3, 1 l

V 10458
h 3, 1 l

V 8358
h 2, 1 l

V 10460
h 1, 3 w

V 10804
h 2, 1 l

V 8453
g 3, 1 h

V 8464
h 1, 2 l

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Variables in M80-

June 10, 1913

No 80

#8452
h 1, 2 l

#10806
h 2, 1 l

#10967
l 1, 4 n

#12123
h 2, 1 l

#10805
h 1, 2 l

#10977
l 1, 4 n

#10808
h 2, 1 l

#10973
h 2, 1 l

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Variables in M5

June 11, 1913

No 81

MW 85
l 4, 1 m

MW 112
m 1, 20

MW 108
l 3, 1 m

MW 86
l 3, 1 m

MW 110
m 2, 1 5

MW 84
l 3, 0 m, 20

MW 106
l 3, 1 m

MW 111
m 1, 20

MW 107
l 3, 1 m

MW 82
l 3, 1 m

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1914phae.proj..993L

Variables in M5

June 11, 1913

No 81 MW 109
l 3, 1 w

MW 105
l 3, 1 w

b 10149
m 1, 2 0 ?

v 8467
l 3, 1 w

v 8453
o f 1

v 10804
m 2, 1 0

v 10460
h 1, 2 l

v 8358
l 3, 1 w ?

v 10458
q 2, 3 h

v 10452
m 1, 2 0

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Variables in M5

June 11, 1913

No 81 ϒ10808
l 3, 1 m

ϒ10974
l 3, 1 m

ϒ10805
g 4, 1 k

ϒ12123
l 3, 0 m, 2 0

ϒ10967
m 1, 2 0

ϒ10806
k m 2, 1 l

ϒ8452
l 3, 0 m, 2 0

ϒ10973
l 2, 2 m

~~ϒ10804~~

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Variables in M5

June 4, 1913

No 82

V 10973
h 1, 2 l

V 8452
f 4, 1 g

V 10806
h 1, 2 l

V 10967
h 2, 1 l

V 12123
h 2, 1 l

V 10805
g 3, 1 h

V 10974
f 4, 1 g

V 10808
l 3, 1 m:

V 10452
g 3, 1 h

V 10452
h 2, 1 l

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Variables in M5

June 11, 1913.

M5 82 K8358
~~e f~~ k3, 1 m?

K10460
k3, 1 m?

K10804
? in poor

K8453
f 4, 1 g

K8467
g 3, 1 k

k10149
? in poor in neg.

MW 85
g 3, 2 k

MW 112
k 2, 3 m

MW 108
k 1, 2 k

MW 86
g 3, 1 k

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Variables in M5

June 11, 1918

No 82

MW 110
h 2, 1 l

MW 84
g 3, 1 h

MW 106
g 3, 0 h, 2 l

MW 111
l 1, 3 n

MW 107
g 3, 1 h

MW 82
n 2, 1 0

MW 109
h 2, 1 l

MW 105
l 1, 3 n

No 82 is very near to another star. Difficult to meas. especially on Y Plates.

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Variables in M5

June 11, 1913

No 83

MW 105
h 3, 1 l

MW 109
l 3, 1 m

MW 82
h 2, 1 l

MW 107
l 3, 1 m

MW 111
m 1, 20

MW 106
l 3, 1 m

MW 84
l 3, 1 m

MW 110
l 3, 0 m, 20

MW 86
l 3, 1 m

MW 108
l 3, 1 m

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Variables in Mo

June 11, 1913

Mo 83 MW 112

n 1, 2 o

MW 85

b 3, 1 n

*8467

g 4, 1 h

x 8453

f 3, 2 g

x 10804

f 3, 1 g

x 10460

f 3, 2 g

x 8358

g 3, 1 h

x 10458

f 4, 1 g

x 10452

f 3, 1 g

x 10808

f 3, 2 g

Rivet.

W. S. measured.

See hages 21 & 22

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Variables in M5

June 11, 1913

No 83 V 10974
l 2, 2 n

V 10805
l 1, 3 n

V 12123
n 2, 10 ?

V 10967
l 3, 1 n

V 10806
l 3, 1 n

V 8452
, f 1

V 10973
l 3, 1 n

V 10808
l 3, 1 n

V 10452
l 3, 1 n

V 10458
l 3, 1 n

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Variables in M6

June 11, 1913

No 83 ↓8358
q 3, 1 h

↓10460
difficult- l 3, 1 n?

↓10804
Too poor in negative

↓8453
Too poor.

↓8467
q 4, 1 h

l 10149
Too poor.

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Variables in M5

June 12, 1913

No 84

MW 85
a 4, b + c ∥ plate

MW 112
a 4, 1 b

MW 108
a 4, 2 b

MW 86
b 3, 1 c

MW 110
a 4, 1 b

MW 84
b 3, 2 c

MW 106
b 2, 3 c

MW 111
b 1, 3 c

MW 107
a 4, 1 b

MW 82
b 2, 2 c

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Variables in M5

June 12, 1913

No 84 MW 109
a 4, 1 b

MW 105
b 2, 3 c

V 8467
c 1, 4 d

b 10149
c 1, 4 d

V 8453
c 1, 4 d

V 10804
c 1, 4 d

V 10460
a 4, 1 b

V 8358
b 4, 2 c

V 10458
a 4, 1 b

V 10452
b 5, 2 c

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Variables in M5

June 13, 1913

No 84

X 10808
c 2, 3 d

X 8452
c 2, 3 d

X 10806
b 3, 2 c

X 10967
a 4, 1 b

X 12123
a 3, 2 b

X 10805
b 3, 3 c

X 10974
b 2, 4 c

10973
b 3, 2 c

No 84 is very bright and so close to otherstars that it is quite difficult to meas.

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Variables in M5

June 13, 1913

No 85 MW 85
l 1, 4 n

MW 112
n 1, 2 0

MW 108
l 1, 3 n

MW 86
l 3, 2 n

MW 110
n 1, 2 0

MW 84
n 2, 1 0

MW 106
l 1, 3 n

MW 111
n 1, 2 0

MW 107
l 1, 3 n

MW 82
n 2, 1 0

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Variables in Mo

June 13, 1913

No 85 MW 109
h 3, 1 n

MW 105
h 1, 2 l

b 10149
Too faint.

+10973
g 3, 1 h

+10805
n 2, 1 0

+10974
f 3, 1 g?

+12123
Too difficult

+10967
g 3, 2 h?

+10806
l 3, 1 n

+8452
l 3, 1 n

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Variables in M5

June 13, 1913.

No 85 χ 10808
Too poor

χ 10452
h 3, 1 l

χ 10458
g 3, 1 h

χ 8358
Too diff.

χ 10460
h 1, 2 l

χ 10804
Too poor

χ 8453
Too poor

χ 8467
g 2, 3 h

No 85 is a difficult star to measure - especially on χ Plates.

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Variables in M5

June 13, 1913

No 86

MW 105
h 2, 1 l

MW 109
l 3, 1 w

MW 82
l 1, 3 w

MW 107
h 2, 1 l

MW 111
w 2, 1 0

MW 106
h 2, 1 l

MW 84
l 1, 3 w ?

MW 110
l 3, 1 w

MW 86
l 1, 3 w ?

MW 108
l 2, 2 w

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Variables in M5

June 13, 1913

No 86 MW 112
n 1, 20

MW 85
diff. h 3, 1 b?.

MW 8467
h 2, 1 l

b 10149
Too poor in neg of v

x 8453
Too poor " " "

x 10804
Too poor " " "

x 10460
Too poor " " "

x 8358
Difficult.

x 10458
l 3, 1 w

x 10452
h 2, 1 l

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Variables in M5

June 13, 1913

No 86 ✱10808
Too poor

✱8452
l 1, 3 w?

✱10806
l 1, 3 w?

✱10967
Difficult

✱12123
f 3, 2 g?

✱10974
Difficult

✱10805
g 3, 1 h

✱10973
Diff.

No 86 is difficult to measure - especially on ✱ Plates.

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Variables in M5

June 14, 1913

No 87

MW 85
h 2, 1 l

MW 112
l 3, 2 w

MW 108
l 1, 3 w

MW 86
h 2, 0 l, 3 w

MW 110
l 3, 1 w

MW 84
h 2, 1 l

MW 106
l 1, 3 w

MW 111
l 3, 1 w

MW 107
l 1, 3 w

MW 82
h 1, 2 l

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Variables in M5

June 14, 1913

No 87

MW 109
h 2, 2 n

MW 105
h 1, 3 n

ψ 10973
h 2, 0 l, 3 n

ψ 10805
l 1, 3 n

ψ 10974
l 1, 3 n

ψ 12123
h 1, 2 l

ψ 10967
h 0, 1 l

ψ 10806
l 1, 3 n

ψ 8452
h 2, 1 l

ψ 10808
l 2, 2 n

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Variables in M5

June 14, 1913

No 84 ✝10452
pv 2, 1 l

✝10458
pv 3, 0 l, 4 w

✝8358
l 1, 3 w

✝10460
pv 1, 2 l

✝10804
l 2, 2 w

✝8453
S vv poor

✝8467
gf 4, 1 l

b 10.49
S vv poor

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Variables in M5

June 18, 1913

No 88 MW 85
l 2, 3 n

MW 105
h 2, 1 l

MW 109
n 1, 2 0

MW 82
l 3, 1 n

MW 107
l 3, 1 n

MW 111
h 2, 1 l

MW 106
l 2, 2 n

MW 84
n 2, 1 0

MW 110
l 3, 1 n

MW 86
l 3, 1 n

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Variables in M5

June 18, 1913

No 88 MW 108
l 3, 1 n

MW 112
h 1, 2 l

4 8467
l 1, 3 n

4 8453
Too faint

4 10804
Too faint

4 10460
n 1, 20

4 8358
h 1, 2 l

4 10458
h 3, 1 l

4 10452
h 2, 2 l

4 10808
h 2, 1 l

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Variables in M5

June 18, 1913

No 88 v 8452
g 3, 1 h

v 10806
h 3, 1 n

v 10967
h 1, 2 k

v 12123
h 3, 1 n

v 10974
h 3, 1 n

v 10805
h 2, 1 l

v 10973
h 2, 1 l

b 10149
Too faint in n of v.

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Variables in M5

June 18, 1913

No 89 ☿ 10973
h 1, 2 l

☿ 10805
l 3, 1 m

☿ 10974
l 3, 1 m

☿ 12123
m 1, 20

☿ 10967
m 2, 1 0

☿ 10806
l 3, 1 m

☿ 8452
q 3, 1 h

☿ 10808
Too faint

☿ 10452
l 3, 1 m

☿ 10458
m 1, 20

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Variables in M5

June 18, 1913

No 89

K8358
See Pow

K10460
g 1, 3 h

K10804
See Pow

K8453
g 3, 1 h?

K8467
l 1, 3 n

b10149
See Pow

MW85
l 3, 2 n

MW 105
l 1, 3 n

MW 109
n 2, 1 0

MW 92
l 2, 2 n

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Variables in M5

June 19, 1913

No 89

MW 107
l 3, 1 N

MW 111
N 2, 1 O

MW 106
l 3, 1 N

MW 84
l 3, 1 N

MW 110
N 1, 2 O

MW 86
l 3, 1 N

MW 108
l 3, 1 N

MW 112
N 2, 1 O

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Variables in M5

June 19, 1913

No 90

MW 112
h 1, 2 l

MW 108
q 4, 1 h

MW 86
q 2, 2 h

MW 110
q 3, 1 h

MW 84
n 2, 10

MW 106
n 2, 10

MW 111
q 3, 1 h

MW 107
n 1, 20

MW 82
n 2, 10

MW 109
q 3, 2 h

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Variables in M5

June 19, 1913

No 90 MW 105
R r, 10

b 10149
Too poor

† 8467
q 3, 2 h

† 8453
q r, 4 q

† 10804
Too poor

† 10460
h r, 1 h?

† 8358
q 3, 2 h

† 10458
h 3, 1 w

† 10452
h 3, 1 w

† 10808
Too poor

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Variables in M5

June 19, 1913

No 90

V 8452
f 2, 3 g

V 10806
f 2, 3 g

V 10967
Too faint in R. of S.

V 12123
h 3, 1 m

V 10974
Too faint in R. of S.

V 10805
f 3, 2 g.

V 10943
h 1, 2 k

MW 109
a 2, 3 h

MW 105
d 1, 2 e

MW 104
b 1, 2 c

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Variables in M5

No 9: MW 85
Difficult- 13.1-w

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Variables in M5

Var. 82.
Bk. 44, p. 22.

Var. 91.
Bk. 44, p. 50 Are all the other plates blanks?

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Variables in M5

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Variables in M5

June 20, 1913.

No 92 ♀ 10973
Difficult- ♂ 3, 2 ♀

♭ 10149
♂ 3, 1 ♀

♀ 10805
♂ 1, 4 ♀

♀ 10974
♂ 3, 2 ♀

Do not think these measures are accurate. No 92 is a double - or so close to another star. that they cannot be separated -

E. F. S.

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1914phae.proj..993L

Variables in M5

June 20, 1913

No 64

λ10458
hx, l

λ8358
hx, l

λ10460
f4, 2g

λ10804
f3, 2g

λ8452
g3, 2h

λ8467
f4, 2g

λ10452
f4, 2g

λ10808
f3, 2g

λ8452
f4, 2g

λ10806
g0, h

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Variables in M5

June 20, 1913

No 67 x 10967
f 4, 1 g

x 12123
f 3, 2 g

x 10974
f 2, 4 g

x 10805
g 1, 3 h

x 10973
f 3, 2 g

No 67 comes near the edge on WW Plates. is distorted and not comparable with plates in sequence.

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1914phae.proj..993L

Variables in M5

June 23, 1913 : (Marked on ϰ 7601)

No 72 ϰ 10973
l 3, 2 n

ϰ 10805
l 3, 0 n, 30

ϰ 10974
l 4, 1 n

ϰ 12123
h 1, 2 l

ϰ 10967
h 2, 1 l

ϰ 10806
h 1, 3 n

ϰ 8452
l 3, 2 n

ϰ 10808
q 3, 2 h

ϰ 10452
q 2, 3 h

ϰ 8467
h 1, 2 l

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1914phae.proj..993L

Variables in M5

June 23, 1913

No 72 K 8453
l 3,1 m

K 10804
q 3,1 h

K 10460
l 3,0m,30

K 8358
q 3,2 h

K 10458
l 3,2 m

b 10149
q 2,0 h

MW 105
q 3,2 h

MW 109
q 3,1 h

MW 82
q 3,2 h

MW 107
q 3,1 h

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1914phae.proj..993L

Variables in M5

June 23, 1913

No 72 MW 55
Not on pl.

MW 111
?

No 72 is towards the edge of the plate. is distorted. and not comparable with stns of sequence. shall not measure any more MW Plates.

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Variables in M5

June 25, 1913

R.A. 71

b10149
h 1, 2 h

k10458
h 2, 3 n

k 8358
f 3, 1 q

k10460
n 1, 2 o

k10804
q 3, 1 h

k 8453
q 3, 2 h

k 8467
h 1, 3 n

k10452
h 3, 1 n

k10808
h 2, 1 h

k 8452
o 1 K?

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1914phae.proj..993L

Variables in M5

June 25, 1913

No 71

x 10805
~~x 8452~~
g 3, 2 h

x 10806
h 2, 1 l

x 10967
l 3, 0 n, 20

x 12123
h 2, 1 l

x 10974
n 1, 20

x 10973
l 3, 1 n

No 71 is difficult on MW Plates. distorted and not comparable with images in sequence. Shall not measure MW Plates.

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Variables in M5

June 25, 1913

No 70 ✝10978
l 3, 1 n

✝12123
l 2, 3 n

✝10974
n 1, 2 0

✝10967
n 1, 2 0

✝10806
l 3, 1 n

✝8452
q 3, 1 h

✝10805
l 3, 1 n

✝10808
f 3, 1 q

✝10452
n 1, 2 0

✝8467
l 3, 1 n

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1914phae.proj..993L

Variables in M5

June 25, 1913

No 70 ✝8453
g3, 2h

✝10804
✝3, 0g, 3h

✝10760
l3, 1n

✝8358
l3, 1n

✝10458
l2, 3n

b10149
g2, 3h

The same note applies to 70 as to the two previous variables. MW Plates not measured.

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1914phae.proj..993L

Variables in M5

June 25, 1913

No 69 b 10149
g 8, 2 h

k 10458
h 1, 2 l

k 8358
h 2, 1 l

k 10460
f 4, 2 g

k 10804
g 3, 1 h

k 8453
n 7 1

k 10452
h 3, 1 l

k 10808
g 3, 1 h

k 10805
f 2, 3 g

k 8452
n, h

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1914phae.proj..993L

Variables in M5

June 25, 1913

No 69

k 10806
g 3, 3 *h*

k 10967
h 2, 0 *l*, 3 *n*

k 10974
l 3, 1 *n*

k 12123
l 2, 2 *n*

k 10973
h 3, 1 *l*

No 69 towards edge of plate. images distorted.
MW Plates not measured.

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1914phae.proj..993L

Variable in M5

Oct 30, 1913

No 62 — MW 105
$h_{3,2n}$

MW 109
$q_{3,1h}$

MW 82
$l_{3,1n}$

MW 107
$h_{1,3n}$

MW 111
$h_{1,2l}$

MW 106
$l_{2,2n}$

MW 84
$q_{3,0h,2l}$

MW 110
$q_{3,1h}$

MW 86
$q_{2,1h}$

MW 108
$q_{3,1h}$

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1914phae.proj..993L

9h.5

Oct. 30, 1913

N062 MW112
h 2, 1 + h

N085
h 2, 1 l

h 10149
h 1, 2 l

+ 10973
l 3. 2 n

+ 10805
h 1, 2 l

+ 10974
l 3, 1 n

+ 12123
q 3, 1 h

+ 10967
l 3, 1 n

+ 10806
q 3, 1 h

+ 8452
Doppler

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1914phae.proj...993L

No6

Oct 30, 1913

No62 ϒ 10808
h2 0l 3n

ϒ 10452
h2, 1l

ϒ 10458
h2, 1l

ϒ8358
Jouhou

ϒ10460
l8, 0n, 2o

ϒ10804
g3, 0h, 2l

ϒ8453
Jouhou

ϒ 8467
g4, 1h

MW 109
a1, 3b

MW 105
d1, 2e

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1914phae.proj..993L

Comparisons made with special seq. near var. a, b, c, d, e in red ink on Mt Wilson plate No 62

Mt

Nov 13, 1913

ψ 10806
a 1, 3 b

ψ 8452
c 2, 1 d

ψ 10458
a 4, 1 b

ψ 8358
b 3, 1 c

ψ 8453
Region poor b 1, 2 c ?

ψ 10452
a 3, 2 b

ψ 10808
b 3, 0 c, 1 d

ψ 10805
a 3, 1 b

ψ 10460
c 2, 1 d

ψ 10804
a 2, 1 b

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1914phae.proj..993L

M6

Nov. 13, 1913

No62

K 8467
a 3, 2 b

K 10974
b 2, 1 c

K 10967
c 1, 2 d

K 10973
d 1, 3 e

K 12123
a 3, 2 b

K 8754
Reg. poor d 1, 2 e?

b 10149
a 3, 1 b

MW 109
a 2, 3 b

MW 105
d 1, 2 e

MW 104
b 1, 2 e

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1914phae.proj..993L

Mc

Nov 13, 1913

Do

No 62

MW 111
a 3, 2 b

MW 106
c 1, 0 d, 2 e

MW 84
a 2, 3 b

MW 110
a 2, 3 b

MW 86
a 1, 4 b

MW 82
c 1, 0 d, 2 e

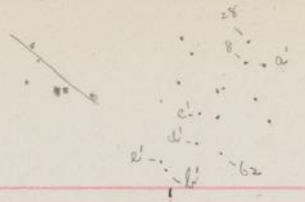
MW 108
a 2, 3 b

MW 112
a 3, 1 b

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1914phae.proj...993L

M5



Nov 13, 1913

No 62 MW 112

q 3 a'
a' 2 b'

No 62 cont. on early plates - Dec 10, 1913

10h 20

4 6637
d' 2, 1 e'

4 6784
a' 1, 3 b'

4 6785
a' 2, 3 b'

Poor Plate.
WS meas?

4 6817
a' 3, 2 b' d o v Remeasured Sept 16, 1915

4 6821
a' 1, 3 b'

4 6829
d' 1, 2 e'

4 6836
b' 1, 3 e'

4 6956
a' 1, 3 b'

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1914phae.proj..993L

M5

Dec 10, 1913

N662

ψ6838
d' 3, 1 c'

ψ6877
b' 1, 3 c'?

ψ6786
b' 3, 1 c'

ψ6805
a' 2, 3 b'

Orr in region ψ var.

ψ6806
a' 2, 3 b'?

ψ6814
a' 2, 3 b'

ψ6958
c' 2, 1 d'

ψ6960
b' 1, 2 c'

ψ6815
b' 2, 1 c'

ψ6974
a' 3, 1 b'

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1914phae.proj...993L

M 5

Dec 10, 1913

No 62

x 6981
a 3, 0 b, 3 c

x 6991
b 1, 3 c

ψ 7008
b 2, 2 c

ψ 7010
a 2, 3 b

ψ 7018
a 0, 5 b

ψ 7036
c 7 1

ψ 7043
a 2, 4 b

ψ 7499
a 1, 4 b

ψ 7469
a 1, 3 b

ψ 7038
a 2, 3 b

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1914phae.proj..993L

M 5

Dec 10, 1913

No 62

λ 7601
a 3, 2 b

λ 7603
b 1, 3 c

λ 7661
a 3, 2 b

λ 7789
a 2, 3 b

λ 8515
b 3, 1 c

λ 8538
a 3, 2 b ?

Doubtful about extinction hazy

λ 8540
a 3, 1 b

λ 8542
b 3, 1 c

λ 8544
a 1, 3 b

λ 8556
d 1, 3 e

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1914phae.proj...0031

Mc

Dec 10, 1913

No 62

κ8586
b' 3, 1 c'

κ8591
c' 3, 1 d'

κ8564
a' 3, 2 b'

κ8571
a' 1, 5 b'

κ8576
b' 1, 3 c'

κ8583
a' 2, 3 b'

κ8578
a' 3, 2 b'

κ8594
a' 3, 1 b'

ψ8604
b' 3, 1 c'

κ8596
a' 3, 1 b'

11 50

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1914phae.proj..993L

M 5

Dec 10, 1913

No 62

1 30

t 8599
à 2, 3 b̀

t 8790
à 1, 4 b̀

t 9159
à 1, 3 b̀

t 9501
Images hazy b̀ 1, 3 è

t 9790
à 3, 2 b̀

t 9859
à 1, 4 b̀

t 9940
à 3, 2 b̀

t 10249
è 2, 1 d̀

t 10253
d̀ 1, 2 è ?

t 10256
à 2, 3 b̀

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1914phae.proj...993L

M5

Dec 10, 1913

No 62

+10254
à 2, 3 b̀

α 1781
Too faint in neg of 7th.

α 1782
c̀ 1, 2 d̀

α 1784
b̀ 1, 3 c̀

α 1785
à 2, 4 b̀

Poor Plate α 1788
b̀ 2, 1 c̀ ?

α 1786
à 2, 3 b̀

α 1787
à 2, 3 b̀

α 1789
b̀ peculiar à 3, 0 b̀, 3 c̀ ?

α 1790
à 2, 3 b̀

λ 8657
à 3, 2 b̀

Faint
b̀ 1, 3 c̀

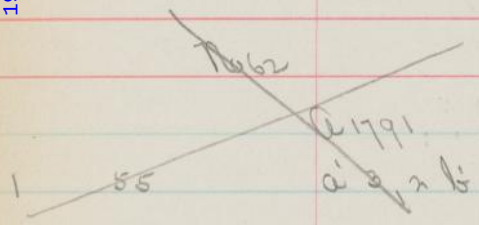
α 1791
à 3, 2 b̀

1. 55

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M5



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Mrs

March 14-1914-

Comparison of Special seq- with original seq.

ψ

ψ 12123

g3 d', 1h

h, b', 2l

m, c', 2n

m2 d', 1n

n, c', 20

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M.5

Comparison of Special Seq with original seq

March 16, 1914

K6981

ϕ_2 à, 1 h

h_2 b, 1 l

l, 1 c, 0 m, 2 n

m_2 d, 0 n, 30°. 0 defective?

n, 1 e 30

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M5

March 31, 1914.

8?

No62 a 1823
d' 1, 2 e'

a 1829
a' 2, 3 b'

a 1825
a' 3, 2 b'

a 1809
d' 1, 2 e' ?

a 1812
a' 3, a' 1, 2 e'

a 1756
a' 3, 1 b'

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1914phae.proj..993L

M5

Sequence of Comp. Stars

June 7, 1914

H 832

	So 1	So 2	
a	5.2		5.5
b	7.0 6.8		7.20
c	8.2		8.5
d	9.1	9.3 9.3	9.33
e		10.2 10.1	10.15
f		10.9 11.0	10.95
g		11.3 11.5	11.40
h		11.9 12.1	12.00
l		12.5 12.5	12.50
m		12.7 12.7	12.70
n		13.1 13.1	13.10
o		13.5 13.7	13.60
p		13.9 13.8	13.85
q		8	..

Images of faint stars too close together to measure with accuracy.

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M5

Sc R

June 2, 1914

#831 Pole

	Sc 1	Sc 2	
10	3.0	3.3	
11		..	
12		..	
13	~~4.3~~	..	
14	5.0	5.3	
15	5.3	5.6	
16	5.7	6.0	
17	5.9	6.2	
18	6.3	6.6	
19	7.1	7.4	
20	8.1	8.4	
23	9.0	9.3 9.2	9.27
25		10.1 10.2	10.15
26		11.1 11.1	11.10
27		11.9 11.7	11.80
28		12.7 12.5	12.60
29		13.3 13.2	13.25
30		13.7 13.5	13.60
31		13.9 13.9	13.90
32		"	"
33			

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M 15

D. P. Seq. of Comp. Stars

June 2, 1914

N 830

	Set 1	Set 2	
a	5.8		5.6
b	6.2		6.5
c	7.2		7.5
d	8.3		8.6
e	9.1	9.4 9.5	9.43
f		10.3 10.5	10.40
g		11.5 11.3	11.40
h		12.2 12.1	12.15
l		12.7 12.5	12.60
m		12.9 12.7	12.80
n		13.2 13.1	13.15
o		13.5 13.7	13.60
p		13.8 13.9	13.85
q		?	"

Images of pt stars too close to

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1914phae.proj...993L

M5

DeR

Seq of Comp. Stars

June 3, 1914

	# 840 Sc 1	Sc 2	
a	6.2		6.5-
b	7.2		7.5-
c	8.1		8.4
d	9.2	9.6 9.7	9.60
e		10.3 10.2	10.25-
f		10.9 11.0	10.95-
g		12.1 12.1	12.1? ~~Wrong limit?~~
h		12.9 12.5	12.60
k		12.9 12.8	12.85-
m		12.9 12.9	12.90
n		13.2 13.2	13.20
o		13.5 13.7	13.60
p		13.9 14.0	13.95-

Faint images hazy - grow indistinct and not comp with scale -

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1914phae.proj..993L

M15

DeR

June 3, 1914

	N841 Sol	Pole Sol		
14	6.0			6.3
15	6.4			6.7
Sodpoor 16				"
" " 17				"
" " 18				"
19	7.8			8.1
20	8.1			8.4
23	9.3	9.7	9.7	9.67
25	~~9.7~~ 11	10.7		10.7
26		11.6		11.6
27		11.9		11.9
28		12.2		12.2
29		12.7		12.7
30		13.3		13.3
31		13.7	13.9	13.80
32		N.S		"

Images poor

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1914phae.proj...993L

M5

DeR

Reg of Comp. Stars

June 3, 1914

	H 842 Sec 1	Sec 2		
a	6.2			6.5
b	7.1			7.4
c	8.0			8.3
d	9.1	9.4	9.3	9.37
e		10.4	10.1	10.25
f		10.7 11.2	10.9	10.80
g		W.S ~~12.0~~	11.2	11.2
h		12.0	11.9	11.95
k		12.3	12.1	12.20
m		12.3	12.3	12.30
n		12.7	12.9	12.80
o		13.2	13.3	13.25
p		13.7	13.9	13.80

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1914phae.proj..993L

Sept 25, 1914

Mts (Estimates of grades)

K 8467

a = b

b = c

c = d

d = e

e = f

f = g

g = h

h = l

l = m

m = n

n = o

o = p

p = q

Intervals between a+b, b+c very large - estimate uncertain

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1914phae.proj...993L

Sept 26, 1914

Ms - Estimates of grades.

χ 9916

a 3 b

b 10 c

c 8 d

d 5 e

e 5 f

f 6 g

g 3 h

h 4 k

k 2 m

m 3 n

n 2 o

o 3 p

p 3 q

Intervals large - uncertain

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1914phae.proj..993L

Sept 28, 1914

Ms - Estimates of grades.

H 8583

a 5 b

b 10 + c

c 8 d

d + e

e + f

f 5 g

g + h

h 3 l

l 2 m

m + n

n 3 o

o 3 p

p 3 q

Intervals large - estimates difficult

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1914phae.proj...993L

Sept 28, 1914

Ms. Estimates of grades

H.W 109

a : b

b b : c

c = d

d + e

e + f

f 3 g

g + h

h + l

l o m

m 3 n

n 2 o

o 2 p

p 3 q

Intervals large. images dense. estimates difficult

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1914phae.proj..993L

Sept 30, 1914

Ms - Estimates of grades.

K 8790

a 7 k

k 6 c

c 10 d

d 5 e

e 5 f

f 4 g

g 3 h

h 4 l

l 1 m

m 4 n

n 3 o

o 3 p

p 5 q

Intervals large - estimates difficult

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1914phae.proj...993L

Oct 22, 1914

Estimates of grades for Dep. of M3

12 ϕ 9204

a	1	b
b	2	c'
c'	3	c
c	2	d
d	5	e
e	3	f
f	3	g½
g½	3+	g
g	1+	h
h	1	k
k	0	k'
k'	0	l
l	4	l'
l	2	m
m	1	l'
l'	0	n
n	3	m'
m'	2	n'

was taken for k'

"m" fee shape

ϕ 877

a	2	b
b	1	c'
c'	3	c
c	1	d
d	5	e
e	2	f
f	2	g½
g½	3	g
g	0	h
h	1	k
k	0	k'
k'	0	l
l	2	l'
l	3	m
m	1	l'
l'	2	n
n	2	m'
m'	2	n'
m	2	n

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1914phae.proj..993L

Oct. 22, 1914

Estimates of grades for prop. of Mo

H 9158			H 8878		
a	1	b	a	2	b
b	1	c'	b	1	c'
c'	3	c	c'	4	c
c	3	d	c	2	d
d	5	e	d	4	e
e	3	f	e	3	f
f	2	ff'	f	2	ff'
ff'	4	g	ff'	3	g
g	0	gg'	gg'	1	gg'
gg'	1	k	k	1	k
k	2	k'	k	2	k'
k'	0	l	k'	1	l
l	5	l'	l	3	l'
l	2	m	l	2	m
m	1	l'	m	1	l'
l'	2	m	l'	1	m
m	2	m'	m	1	m'
m'	3	n'	m'	2	n'

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Oct 23, 1914

Estimates of grades for seq of M 0

λ 8650			* H 839		
a	1	b	a	1	b
b	2	c'	b	2	c'
c'	2	c	c'	3	c
c	2	d	c	3	d
d	6	e	d	4	e
e	3	f	e	3	f
f	1	g	f	1	g
g	5	h	g	3	h
h	1	K	h	1	K ?
K	1	K'			
K'	2	l			
l	0	l'			
l	3	m			
m	2	l'			
l'	1	n			
n	2	n'			
n'	2	n'			
n	3	0			

* Images on H 839 too faint to measure.

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1914phae.proj..993L

Oct. 22, 1914

Estimates of graders for prog. of 7/3

λ8611			λ8650	λ9158	λ9204	mean			Sum
a	2	b	1	1	1	08	1002	a	0.00
b	2	c'	2	1	2	18	0010	b	0.08
c'	3	c	2	3	3	28	0100	c	0.26
c	2	d	2	3	2	22	0010	cd	0.54
d	6	e	6	5	5	55	0011	d	0.76
e	3	f	3	3	3	30	0000	e	1.31
f	3		1	2	3	22	1101	f	1.61
g	4	h'	5	4	4	42	0100	g	1.83
h'	0	h	1	0	1	05	0101	h'	2.25
h	1	k	1	1	1	10	0000	h	2.20
k	1	k'	2	2	1	15	1001	k	2.30
k'	1	l	0	0	0	02	1000	k'	2.45
l	3	l'	3	5	4	38	1110	l	2.43
l	1	m	2	2	2	18	1000		2.43
m	1	l'	1	1	1	10	0000	m l'	2.61
l'	2	n	1	2	0	12	0011	l'	2.71
n	2	m'	2	2	3	22	0001	n	2.83
m'	3	n'	2	3	2	25	1010	m'	3.05
n'	.	x	x	.	.	~~30~~		n'	~~3.30~~ 2.83
x		—							~~3.60~~ 3.13
n	.	o	3	.	.	30		n	2.83
o								o	3.13

Mean 281 2.76

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1914phae.proj..993L

M 5
June 15, 1915

Remeasures

X 8754
No 37 21, 3 f No 37 is near a bright-star - comp. difficult

✓ X 9940
No 40 93, 04, 31

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1914phae.proj..993L

M5

Sept 8, 1915

No 62 K4007
b' 4, 1 c'

K8710
Own Plate. a' 1, 3 b'

K8663
b' 3, 1 c'

K4009
a' 1, 5 b'?

K6163
b' 3, 1 c'

K10254
b' 1, 3 c'

K9916
c' 1, 0 d', 3 e'

K6813
a' 2, 3 b'

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1914phae.proj..993L

Dc R 1st Exp Oct 8, 1914

10 50		399 Ⓟ Se1	b7 Se2	13 + 15	1st Exp.	3d Exp.	5th Exp.	Mean	Resid.	Diff.
R	17	59 ~~56~~ 62		~~58~~	~~56~~ 62	62	6.3	6.23	0 0 1	5.41
+.p R	18				q	.	~~7.4~~	.		q
R	19	70 ~~67~~ 7.3			~~67~~ 7.3	7.3	7.4	7.33	0 0 1	4.70
Dbl R	20				.	.	.	.		dbl.
	21	87 ~~84~~ 9.0	9.00 00 9.0		9.00	9.05	9.05	9.03	03 02 02	3.84
	22	89 ~~86~~ 9.2	9.15 01 9.1		9.15	8.95	9.15	9.08	07 13 07	4.18
Too poor R	23				q	q	q	q		q
" " R	24				q	q	q	q		q
	25		11 11.3	11.1	11.20	11.05	11.0	11.08	12 03 08	3.01
R	26		12.0		12.0	11.75	11.9	11.88	12 13 02	2.43
	27		12.1		12.1	12.15	12.5	12.25	15 10 25	2.44
	28		00 12.8	12.8	12.80	12.70	12.8	12.~~08~~ 787	~~02~~ 03 ~~08~~ 07 03	2.29
	29		13.2		13.2	13.00	13.1	13.10	10 10 00	2.27
	30		F		F	13.40	13.60	13.50	F 10 10	2.39
R	31									

Differences small. No corrections need be applied for Order of Exposure.

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1914phae.proj...0001

Sc R 2d Eth. Oct 8, 1914

399 8 lo7 13+15 Aperture 1/4 in.

		Sc 1	Sc 2	Diff.
R	17	5.7	6.0	5.640
R	19	6.8	7.1	45.93
Dbl R	20			Dbl.
	21	8.3	8.6 8.65 01 8.7	4.22
	22	8.6	8.7 8.90 00 8.9	4.36
R	23	9.0	9.3 9.25 10 9.7	4.20
Too far R	24			
	25		10.95 10 10.9 11.0	3.14
R	26		11.85 01 11.8 11.9	2.46
	27		12.15 01 12.2 12.1	2.57
	28		12.80 11 12.7 12.9	2.26
	29		13.25 01 13.2 13.3	2.12
	30		13.60 11 13.5 13.7	2.29
R	31		N.S	

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1914phae.proj..993L

D. R 32 Eih Oct-8, 1914

		WW 399 Se 1	Se 2	13+15	Diff.
R	17	5.9 6.2		6.2	5.44
R	19	7.0 7.3		7.3	4.73
Dbl. R	20				Dbl.
	21	8.7 9.0	9.05 01 9.1	9.05	3.82
	22	8.7 9.0	8.95 01 8.9	8.95	4.31
Too poor R	23				9
" " R	24				9
	25		11.05 10 11.1 11.0	11.05	3.04
Im. hazy R	26		11.75 01 11.8 11.7	11.75	2.66
	27		12.15 10 12.1 12.2	12.15	2.54
	28		12.70 00 12.7 12.7	12.70	2.36
	29		13.00 11 13.1 12.9	13.00	2.37
	30		13.40 11 13.5 13.3	13.40	2.49

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1914phae.proj...993L

Sc R 4th Exp. Full ap. Oct 8, 1914

399 B by 13 + 15

		Sc1	Sc2		Diff.
R	17	2.0	2.3		7.34
R	19	3.0	8.3		8.73
Dbl. R	20				Dbl.
	21	4.0	4.3		8.57
	22	4.0	4.3		8.96
Transp R	23				d
" " R	24				d
5.3 5.6	25	5.6	5.9	5.75 ± 1	8.34
R	26	5.9	6.2		8.11
	27	6.0	6.3		8.39
	28	6.8	7.1		7.96
	29	7.1	7.4		7.97
	30	7.7	8.0		7.89
Transp R	31				g
	32	8.7	9.0	9.1 9.05 0 1	.
	33			9.6 9.4 9.50 1 1	.
	34			9.9 10.1 10.00 ± 1	.
	35			10.7	.
	36			11.7 11.5 11.60 1 1	.
	37			12.7	.
	38			13.7 ?	.
	39			13.9	.
	40			g	.

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1914phae.proj..993L

D.R 5th Eff Oct-8,1914

399P by 13+15

							Diff.
R	17	6.0	6.3			6.3	5.34
R	19	7.1	7.4			7.4	4.63
Dbl R	20						
	21	8.7	9.0	01	9.1	9.05	3.82
	22	8.9	9.2	01	9.1	9.15	4.11
Two faint R	23						9
" " R	24						9
	25				11.0	11.0	3.09
R	26				11.9	11.9	2.41
	27				12.5	12.5	2.19
	28				12.8	12.8	2.26
	29				13.1	13.1	2.27
	30			11	13.5	13.7	18.60 2.29

12 10

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1914phae..proj...993L

Sc R 10½ Exp Oct 8, 1914 2d ½ Exp 8m

Lick 2455 b7 13 + 15 Lo 2455 b1

		Sc1.	Sc2	24p.4,p.106		Reid.	Diff.	Sc1	Sc2		Diff.
	17	7.7	8.0	8.2	Mean. 8.10	⊥1	3.54	6.2	6.5	6.5	5.14
R	19	8.1	8.4	8.35 o1 83	8.4	8.38	o3 o2	3.65 3.86	6.2	6.5	6.5	5.53
Dbl.	20	~~8.2~~		.	.	.		Dbl	8.0 8.2 8.10 ⊥1			
	21			10.1	10.2	10.15	⊥ o	2.72	7.7 7.9		8.10	4.77
R	22			10.6	10.7	10.65	o 1	2.61	7.9 8.2		8.2	5.06
R	23			10.7	10.7	10.70	o o	2.75	tr		q	.
Two pairs	24			q	q.	q.		q.	tr		q.	.
R	25			12.6	12.4	12.50	i⊥	1.59		10.1	10.1	3.99
R	26			13.2	13.1	13.15	o⊥	1.16		10.7	10.7	3.61
	27			13.3	13.0	13.15	i2	1.54		10.9	10.9	3.79
R	28			13.8	13.7	13.75	o⊥	1.31		11.3	11.3	3.76
	29			f	14.0	14.0	f a	1.37		12.5	12.5	2.87
	30			f	f	f f f		f		12.90 ⊥1 12.8	12.90 13.0	2.99
R	31											

Images four - faint - ones along, not - comp with scale

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D.R 3d Exp. 64m Oct-8,1914 4th Exp

		Do 2455 Sc1	Sc2	b7 13+15	Diff.	Do 2455 (cont) Sc1	Sc2
	17	5.0	5.3	5.3	6.34	7.98	7.9
R	19	5.0	5.3	5.3	6.73	8.18	4
DH	20			Q	Q	DH.	
	21	6.1	6.4	6.4	6.47		10.2
R	22	5.8	6.1	6.1	7.16		10.4
R	23	6.1	6.4	6.4	7.05		10.7
R	24	6.2	6.5	6.5	7.38		t/h
R	25	7.1	7.4	7.4	6.69		12.4
R	26	6.9	7.2	7.2	7.11		13.1 12.4 w.s
	27	7.9	8.2	8.15 ⊥ 8.1	8.15	6.54	13.0
R	28	8.0	8.3	8.25 ⊥ 8.2	8.25	6.81	13.7
	29	8.8	9.1	9.10 ⊥ 9.1	9.10	6.27	14.0
	30			9.7	9.7	6.19	↓
R	31			10.9 ⊥ 11.00	11.1	11.00	5.22
R	32			11.3	11.2		
R	33			11.6	11.6		
R	34			11.9	11.9		
✱	35			12.4	12.4		
	36			12.95 ⊥ 13.0	12.9	12.95	
	37			13.7	13.7		

H 05

Images a little elongated

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1914phae.proj...993L

Oct 9, 1914

Sc R		1st Expn. So 2498 by Sc1	Sc2	13 + 15 Expn 1.	p.108 Expn 4				2d Expn. 64m S 2498 (cont.) Sc1	Sc2	Diff
3	15										
in unit?	17	8.1 8.4 7.9 8.3	8.30 1.1	8.30	7.4	Mean 7.85 45 45	Diff 3.79		4.0 4.3	4.3	7.34
R	19	8.0 8.3	8.45 1.2 8.6	8.45	8.3	8.38 07 08	3.65		4.2 4.5	4.5	7.53
Dbl.	20			R.	R.	R.	R.		Dbl. 5.7	R.	.
	21	10.1		10.1	9.8	9.95 1 2	2.92		5.2 5.5	5.5	7.37
R	22	10.1		10.1	10.0	10.05 1 0	3.21		5.1 5.7	5.4	7.86
R	23	10.7		10.7	10.9	10.80 1 1	2.65		5.2 5.5	5.5	7.95
R	24	11.55 2.1	11.7 11.7	11.65	11.7	11.62 07 08	2.26		5.8 6.1	6.1	7.78
R	25	11.95 1.0	11.9 12.0	11.95	Sup.	11.95 Q.	2.14		6.1 6.4	6.4	7.69
✳	26	12.1		12.1	12.1	12.10 0 0	2.21		7.4 7.1 7.1 6.8	7.25	7.06
	27	12.10 0 0	12.4 12.4	12.10	12.2	12.15 05 05	2.54		7.9 7.6 7.6 7.3	7.75	6.94
✳	28	13.0		13.0	12.9	12.95 0 1	2.11		7.7 8.0	8.0	7.06
	29	13.3		13.3	13.2	13.25 1 0	2.12		8.1 8.4 8.4 0 0	8.4	8.40 6.97
	30	13.7		13.7	13.5	13.60 1 1	2.29		8.7 9.0 9.0 0 0	9.0	9.00 6.89
R	31	?		?	?	?	?			10.1	10.1 6.21 12
R	32									10.1	
✳	33									10.5	
R	34									11.0	
	35									11.3	
	36									12.1	
	37									12.8	
	38									13.0 ?	
	39									13.7 ?	
	40									?	

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δ Cep 3d Expr Oct-9, 1914 4th Expr

20 2498 by 13+15 2 2498 cont-

		Sc1	Sc2	Diff.		Sc1	Sc2
	17	5.9	6.2	6.2	5.44	4.1	7.4
R	19	6.1	6.4	6.4	5.63	8.0	8.3
	21	7.2	7.5	7.5	5.37		9.8
R	22	7.1	7.4	7.4	5.86		10.0
R	23	7.7	8.0	8.0	5.45		10.9
R	24	thr	gr	gr	gr		11.7
R	25	8.9	9.2	9.2	4.89		Dup.
	26			9.7	4.61		12.1
	27			10.1	4.59		12.3
	28			10.4	4.66		12.9
	29			11.7	3.67		13.2
	30			12.1	3.79		13.5
R	31			13.1	3.12		Gr
R	32			13.1			
	33			13.3			
R	34			13.7			
	35			14.0			

9.20 00

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4 10

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1914phae.proj...993L

Series

Oct- 13, 1914

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MC 6656 Bode

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1914phae.proj..993L

Oct. 14, 1914

ScR · 1st ½ Exp. 2m

			Sc1	Sc2	Diff.
10	00	~~ħ~~ δ 2500	10.7	13.715	
R	17	7.9 82		8.2	3.44
	18	t.p		q	.
	19	t.p		q	.
Dbl.	20				.
	21		10.7	10.7	2.17
	22	t.p		q	.
	23	t.p		q	.
	24	t.p		q	.
	25	t.p		q	.
	26		12.3	12.3	2.01
	27		13.1	13.1	1.59
	28		13.9	13.9	1.16
	29		f	f	.
	30		f	f	

2d ½ Exp 8m (assume)

	Sc1	Sc2	Diff.
δ 2500 cont-	7.7	7.4	4.24
t.p	q	q	.
t.p	q	q	.
Dbl.		Dbl.	.
	10.1	10.1	2.77
t.p		q	.
t.p		q	.
t.p		q	.
t.p		q	.
	12.3	12.3	2.01
	13.2	13.2	1.49
	13.7	13.7	1.36
	14.0	14.0	1.37
	f	f	f

See mean Exp. 2m, p. 112

Images poor.

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Oct 14, 1914

Sc R 3d Exp. 64m

λ 2500 Sc 1 Sc 2 07 13+15

R	17	4.0 4.3	3.9 4.2	5 10	4.25	Diff. 7.39	
R	19	4.1 4.4			4.4	7.63	
	21	6.1 6.4	5.9 6.2	6 30 11	6.30	6.57	
R	22	5.1 5.4			5.4	7.86	
	23	t/p			q		
	24	t/p			q		
R	25	6.6 6.9			6.9	7.19	
	26	7.0 7.3			7.3	7.01	
	27	7.9 8.2			8.2	6.49	
	28	8.0 8.3			8.3	6.76	
	29	8.7 9.0	8.9	5 0 1 89	8.95	6.42	
	30	9.1 9.4	9.4	0 0 94	9.40	6.49	
R	31				10.7?	10.7? 5.52 ?	
	32				10.9	10.9	
	33				11.7	11.7	
R	34				11.9	11.9	
	35				12.7	12.7	
	36				13.0	13.0	
	37				13.7	13.7	
	38				13.9	13.9	
	39						

4th Exp 12m (assume)

λ 2500 (cont.) Sc 1 Sc 2 Diff.

5.9	6.2	6.0	6.3	6.25 00 6.25	5.39
t/p				q	q
8.1	8.4			8.4	4.47
t/p				q	q
t/p				q	q
t/p				q	q
t/p				q	q
10.1				10.1	4.21
10.7				10.7	3.99
11.1				11.1	3.96
11.9				11.9	3.47
12.2				12.2	3.69
t/p				q	q
t/p				q	q

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1914phae.proj..993L

Oct 14, 1914

δ Cep 5th mag 2m

		δ 2500 Sc1	b7 Sc2	13 + 15 p.110	Mean	Diff.
K	17	7.7 80		8.0 8.2	8.1.0 00	3.54
	19	t/h		q .	q	q
	21		10.1	10.1 10.7	10.40 3 3	2.47
	22		t/h	q .	q	q
	23		t/h	q .	q	q
	24		t/h	q .	q	q
	25		t/h	q .	q	q
	26		12.1	12.1 12.3	12.20 1 6	2.11
	27		12.7	12.7 1.3.1	12.90 2 2	1.79
	28		13.2	13.2 13.9	13.55 4 3	1.51
	29		13.7	13.7 F	13.7 a F	1.67
	30		13.9	13.9 F	13.9 a F	1.99

10 40

Very poor plate - images elongated

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1914phae.proj...993L

Oct 14, 1914

			5th H= Eph.								4th H= Eph		
		1261 P Sec 1		b10 Sec 2	19+15 6th H=	8th Eph.	1st 24p. 5th 24p.	Mean.	Diff.	1261 P Sec 1	cont- Sec 2	Cor.	Diff.
	15	6.9	7.2		7.2	7.0	6.80	7.00	20020 4.17	2.0	2.3		
	16	7.1	7.4		7.4	7.2	7.2	7.27	1 1 1 4.25	2.1	2.4		
	17	8.1	8.4		8.4	7.4	7.5	7.77	6 4 3 4.14	3.0	3.3		
	18	8.8	9.1	9.10 00 9.1	9.10	8.5	8.5	8.70	40 20 20 3.63	3.9	4.2		
	19			9.80 11 9.9 9.7	9.80	9.20	9.35	9.45	35 25 10 3.27	4.2	4.5		
	20			10.25 12 10.6 10.4	10.25	10.1	9.9	10.08	17 02 18 2.75	4.1	4.4		
R	21			11.1	11.1	10.7	11.0	10.93	17 2 2 23 07 1 2.55	4.8	5.1		
	22			12.1	12.1	11.8	12.00	11.97	13 17 03 1.85	5.9	6.2		
	23			12.0	12.0	11.9	12.2	12.03	0 1 2 1.94	5.9	6.2		
	24			12.3	12.3	12.1	12.3	12.23	1 1 1 2.01	6.0	6.3		
	25			12.7	12.7	12.7	12.7	12.70	0 0 0 1.91	6.6	6.9		
	26			13.0	13.0	13.2	f	13.10	1 1 f 1.67	7.0	7.3	7.25	7.52
	27			14.0?	14.0?	f		14.0?	0.86	8.0	8.3	8.23	6.63
	28			n.s.						8.2	8.5	8.42	6.80
Assume that the numbers crossed off belong to the magns. of the H= Eph.	29									8.9	9.2	9.2 9.2 00 9.12	
	30											10.2	10.15
	31											10.3	10.25
	32											10.7	10.66
	33											11.6	11.3 11.44
	34											12.1	12.10
	35											12.7	12.70
	36											13.0	13.00
	37											13.5	13.57
R	7	3.2	8.5		3.5	3.2	3.0	3.23	3 0 2 5.09				
	8			10.8	10.8	10.7	10.45	10.65	15 05 20 2.71	5.0			
	9	8.9	9.2 0 1		9.25 9.9	9.1	9.00	9.12	13 02 12 4.24	3.7			

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1914phae.proj..993L

Oct. 14, 1914

Sc R	3d Exp. 1261 P cont. Sc 1	Sc 2	2nd Exp. Corr.	Diff.	2d Exp. 1261 (cont.) Sc 1	Sc 2
	15 6.7	7.0			6.2	6.5
	16 6.9	7.2	7.09	4.43	6.9	7.1
	17 7.1	7.4	7.50	4.41	7.1	7.4
	18 8.2	8.5	8.63	3.80	8.1	8.4
	19 8.9	9.2 9.20 00	9.32	3.42	8.9	9.2 9.20 00
	20	10.1	9.81	3.02		9.7
R	21	10.7	(10.78)	2.70		10.7
	22	11.8	11.71	2.11		11.7
	23	11.9	R	R		Si. sup.
	24	12.1	12.20	2.04		12.2
	25	12.7	12.30	2.31		12.3
	e	10.7	10.39	2.97		10.3
	b	9.1	8.69	3.80	8.5 8.7	8.55 10 8.6
R	7 2.9	3.2			8.30	
	26	13.2	13.60	1.17		13.7
	27	b	13.79	1.07		13.9?

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1914phae.proj...993L

Oct 14, 1914

D & R

Exp.

1261 P (cont)

15 6.7 6.3 6.8022

16 6.9 7.2

17 7.2 7.5

18 8.2 8.5

19 9.1 9.4 9.3501 9.3

20 9.9

R 21 11.0 12.021

22 11.9 12.1

23 12.2

24 12.3

25 12.4

26 F 10.4512

e 10.3 10.6

f 8.7 9.0 9.0000 9.0

R 7 27.1 30

12 15

Interrupted.

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1914phae.proj..993L

Oct 15, 1914

Sc R

3 30 1263 B 10 19+15 (Yellow)
Sc 1 Sc 2

R	4	B	
	2	5.9	
	6	5.1	
	15	3.1	
	16	3.2	
	17	4.1	
	18	4.1	
	19	4.2	
	20	5.1	
	21	5.0	~~5.0~~
	22	5.1	
	23	7.1	
	24	7.3	
	25	6.7	
	26	8.1	
	27		9.7
	28		10.0
	29		10.7
	30		11.0
	31		~~12.0~~ 11.9
	32		~~12.~~ 12.9
	33		10.3 W.S ~~12.9~~
	34		13.1
	35		~~5~~

~~Dec 2. Bright~~
~~Drew No 30~~

3 45

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1914phae.proj...993L

Oct 5/16, 1914

δ Cr R

?	45		369 P	lo 10	19+15
			3c1	5c2	
		Y	B		
		e	3.9		
		b	3.1		
		15	1.1		
		16	2.0		
		17	2.7		
		18	3.0		
		19	3.2		
		20	3.8		
		21	4.0		
		22	5.1		
		23	4.9		
	R	24	5.0		
	R	25	6.0		
	R	26	6.2		
		27	7.3		
	8.1	28	7.9		
		29	8.7	9.1	
Poor images		30		9.7	
		31		10.3	
		32		11.1	10.9
		33		12.3	?
		34		12.9	
		35		13.5	
		36		13.7	

Faint images large and hazy - not comparable with scale images.

10 vv

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1914phae.proj..993L

Oct 5 11h, 1914

	Br. Exp.		Gt Exp	
	Sc 1	Sc 2	Sc 1	Sc 2
21	5.2		7.1	
22	6.1		7.9	
23	6.1		7.7	
24	6.1			
25	6.7		8.7	8.9
26	6.9		8.9	9.2
27	7.9			10.1
28	8.3			10.7
29	8.8	9.1		11.2
30		9.7		11.9
31		10.3		12.1
32		10.9		12.7
33		11.7		12.7 13.0
34		12.1 11.9		13.2
35		13.1		13.8
36		13.7		∅

Sc R:- 10 25

Ł 2348 b 10 19+15

10 50

Images not circular - bright-ones too close to measure.

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1914phae.proj...0031

Oct 17, 1914

DcR

1st Exp.

Dick 2495

	Sc 1	Sc 2					Diff.
8	6.1	6.4		6.4	5.5	5.95 45	3.18
14	7.3	7.6		7.6	7.6	7.60 00	3.40
16	8.2	8.5	8.55 1 0	8.6	8.55	8.48 07 08	3.08
17	8.9	9.2	9.2000	9.2	9.20	9.05 9.12 08 07	2.79
19				11.0	11.0	10.9 10.95 0 1	1.77
22				12.9	12.9	12.6 12.75 1 2	1.07
23				13.0	13.0	12.8 12.90 1 1	1.07
24				12.9	12.9	12.8 12.85 1 0	1.39
25				13.5	13.5	13.3 13.40 1 1	1.21
26				13.8	13.8	13.7 13.75 0 1	1.02
27				14.0	14.0	14.0 a.	0.86
28				n.s 14.0			
29							
30							
31							
32							
33							
34							
35							
36							

Dick 2495 10 19 + 15

4th Exp. p. 120 mean

2d Exp. 64m

Dick 2495 cont-

	Sc 1	Sc 2		Diff.
	2.8	3.1	3.1	6.03
4.8	5.1 5.0	5.3 5.20 1	5.20	5.80
	5.1	5.4	5.4	6.12
	5.3	5.6	5.6	6.31
	6.1	6.4	6.4	6.32
	7.7	8.0	8.0	5.82
	8.7	9.0 9.05 0 1	9.1 9.05	4.92
	7.6	7.9	7.9	6.34
	8.7	9.0 9.00 00	9.0 9.00	5.61
	8.9	9.2 9.2 00	9.2 9.20	5.57
			10.8	4.06
			11.2	4.02
			11.8	
			12.1	
			12.7	
			12.4	
			13.1	
			13.5	
			13.8	
			7	

Dick 2495 rejected. Region too far from Center.

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1914phae.proj..993L

Oct 17, 1914

Sc R

3d ½ Eph 8m

λ 2495 cent

	Sc 1	Sc 2		Diff.
8	41	44		4.73
14	62	65		4.50
16	63	66		4.92
17	71	74		4.57
19	82	85		4.22
22		109		2.92
23		108		3.17
24		112		3.04
25		118		2.81
26		121		2.67
27		130		1.86
28	134	135	133	1.82
29		135		
30		140		
31		?		

4½ Eph

λ 2495 cent

Sc 1	Sc 2
52	55
73	76
81	84
87	90
	109
	126
	128
	128
	133
	137

9.05 0 1

2 04

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1914phae.proj...0031

Oct 17, 1914

			1st Eph. δ 2501		b 10	19+15				2d Eph. δ 2501 cont.			
			Sc 1	Sc 2		4th-2nd Eph.	Mean		Diff.	Sc 1	Sc 2		Diff.
R	8	52	5.5		5.5	5.5	5.50	0 0	3.63	2.2	2.5	2.5	6.63
R	14	7.1	7.4		7.4	7.5	7.45	0 1	3.55	4.0	4.3	4.3	6.70
R	16	4.2	7.5		7.5	R	7.5	a R	4.02	4.2	4.5	4.5	7.02
	19	~~4.9~~ 4.4			10.2	10.2	10.1	10.15 0 ⊥	2.57	17	5.1	5.4	5.4	6.51
R	17	t.p				8.4	8.4	a a	3.51	19	5.3	5.6 5.7 6.0	5.80 ± 2	6.92
	22				12.2	12.2	11.9	12.05 2 ⊥	1.77		7.1	7.4	7.4	6.42
R	23				12.1	12.1	11.8	11.95 1 ±	2.02		6.9	7.2	7.2	6.77
	24				12.2	12.2	12.0	12.10 1 ⊥	2.14		7.0	7.3	7.3	6.94
	25				12.8	12.8	13.2	13.00 ± 2	1.61		7.8	8.1	8.1	6.51
	26				13.0	13.0	13.5	13.25 ± 3	1.52		8.1	8.4	8.4	6.87
	27				F	F	R				9.1	9.4 9.35 0 ⊥	9.3	9.35 6.51
	28						R						10.1	5.12
	29												10.3	
	30												10.7	
	31												11.6	
	32												12.2	
	33												12.3	
	34												12.8	
	35												13.5	
	36												13.8	
	37												13.9	

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1914phae.proj...993L

Oct 17, 1914

Sc R 3d ½ Exp 4th ½ Exp

		λ 2501 b 10 cont Sc 1	Sc 2	Diff.	λ 2501 b 10 Sc 1	Sc 2
R	8	4.9 5.2	5.2	3.93	5.2	6.8
R	14	6.1 6.4	6.4	4.60	7.2	7.8
R	16	6.2 6.5	6.5	5.02	Sup on 1st Exp of 17	
R	17	6.8 7.1	7.1	4.81	8.1 8.4	
8.1	19	8.0 8.20 ±1 (9.3)	8.20	4.52		10.1
	22		10.1	3.72		11.9
R	23		10.1	3.87		11.8
	24		10.1	4.14		12.0
	25		10.9	3.71		13.2
	26		11.1	3.67		13.5
	27		12.1	2.76	Br im. near	
	28		12.7	2.52	Sl-Sup	
	29		12.9			
	30		13.3			
	31	13.60 ±1	13.5	13.7		
	32		13.7			

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1914phae.proj...993L

Oct 21, 1914

Se W

12 05 1178 B Yellow b7
501 502

	17	27	
	19	30	
	21	39	
	22	42	
	25		58
	26		64
	27		67
	28		72
	29		74 76
	30		83
	32		93?

12 15

Faint images do not compare well with Se images

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1914phae.proj..993L

Oct 22, 1914

D. 8

1394 8 b4 7+15 "Iso 7449 Comm C"

	Sc1		Sc2	
17	2.7			2.4
18	3.1			2.8
19				
20				
21				
22				
23	4.6	4.3	4.7	4.25
24	5.0	4.7	4.7	4.57
D bl - 25	4.7	4.3 WS	~~4.2~~ 4.3	4.30
25a			4.9	
26			4.2	
D bl 27			6.3	
28			7.2	
29			7.9	
30			9.2	
27a			6.2	
25b			4.6	
27b			6.3	

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1914phae.proj..993L

Jan. 6, 1914

Sc 8 1st Eph.

		Sc 1	Sc 2	
	1046 8		04	7 + 15
	9	3.2	2.9	
	25 b		7.2	
	26		7.3	
	27 b		7.5	
R	16	4.3 4.0	4.1 4.05	
	024		~~8.1~~	
	28		7.5 7.7 7.60	
	25		7.1	
	23		5.7	
	31		9.0?	
	24		6.3	
	29		8.1	
	27a		7.1	
	18	4.7 4.4	4.3 4.35	
	25a		6.6	
	30		9.2?	
R	19	5.3 5.0	5.0 5.00	
	22		5.8	
R	13	3.3	3.0	
	025		6.5 6.7 6.60	
R	20		5.8 5.5 5.65	
R	026		6.7	
	2		5.2	
~~Close to br. star 041~~			~~8.1?~~ 8.1	
R	031		W.S ~~5.3~~	
R	027		6.9	
R	029		7.1	
R	030		~~8.1~~ 7.9	
Close to br. object	033		8.5 8.8	

Sc 2

R 028 7.5

~~031 8.1 ?~~

R 024 6.1

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1914phae.proj..993L

Jan 6. 1915

Sc 8 2d Eff. with Screen (b)

No correction for order Zero.

2 40 1046 ℘

		Sc 1	Sc 2	Diff.
	9	3.0	2.7	6.84
R	13	3.1	2.8	7.39
R	16	4.0 3.7	3.70 3.7	7.40
	18	4.3 4.0	4.05 4.1	7.88
R	19		4.8	7.32
R	20		5.3	7.20
R	22		5.5	7.26
	23		5.4	7.62
	24		6.1	7.48
	25a		6.3	7.49
	25f		7.1	7.21
	26		7.1	7.02
	27a		6.8	7.60
	27f		7.4	7.56
	28		7.7	7.22
	29		7.9	7.64
	30		9.0	(6.82)
	31		9.1	
	32		5	
R	17		4.0	
WS meas for 024	R	024	4.8	
R	025		6.3	
R	026		6.5	
R	027		6.8	
R	028		7.2	
R	029		7.5	
R	030		7.5	
R	031		7.9	

		Sc 2
R	032	7.1
R	033	8.2 8.5
R	034	9.2
R	035	
R	036	
R	037	
R	038	
R	039	
R	040	
R	041	
R	e	4.8
R	024	5.1

2 40

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1914phae.proj..993L

Jan 7, 1915

Sc 8 3d Exp

3 00 1046 8

	Sc 1			Sc 2		
9	3.2			2.9		
13	3.3			3.0		
				H.0		
16	4.3	4.0	W.S	~~3.8~~	4.00	
18				4.1		
19				5.1		
20	~~5.7~~			5.7		
22				5.7		
23				5.5		
24				6.2		
25a				6.5		
25f				7.1		
26				7.2		
27a				7.1		
27f				7.5		
28				7.5		
29				8.1		
30				9.0		
31				9.3?		
17				4.2		
024				5.1	Reject. wrong star	
025				6.5		
026				6.5		
027				6.8		
028				7.3		
029				7.6		
030				7.5		
031				8.0		
032				7.7		
0				4.9		

W6 meas for 024 See upper corner

024 6.1

3 35

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1914phae.proj...993L

Jan 8, 1915.

δ Cep (a)

No Correction for order of exp.

		Sa1	Sa2	Diff.
	9	1.1	0.8	8.54
R	13	13.	1.0	9.19
R	16	22	1.9	9.20
R	17	23	2.0	9.50
	18	24	2.1	9.83
R	19	28	2.5	9.62
R	20	32	2.9	9.60
R	22	32	2.9	9.86
	23	31	2.8	10. 8.22
	24	38	3.5	10.08
	25	39	3.6	10.19
	25 42	39	4.0	3.95 10.36
	26 43	4.0	4.1	4.05 10.07
	27 47	4.4	4.3	4.35 10.61
	27		4.2	10.20
	28		4.1	10.22
	29		5.1	10.44
	30		5.7	(10.12)
	31		6.1	
	32		6.3	
	33		6.9	
	34		7.2	
	35		7.7	
	36		8.3	
	37		8.5	8.7
R	024	32	2.9	
R	025	35	3.2	
R	026		3.9	

	Sa1	Sa2
R	027 3.5	3.32
R	028	4.1
R	029	4.6
R	030	4.8
R	031	4.9
R	032	4.2
R	033	5.0
R	034	5.9
R	035	6.1
R	036	6.3
R	037	7.0
R	038	7.2
R	039	7.9
R	040	8.1
R	041	8.7
R	9 3.1	2.8
R	038a	7.1
R	038b	7.3
	039	

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1914phae.proj..993L

Jan 8, 1915

Dec 8 5 Eph. (c)

			Sc1	Sc2	Eph.1 p.125	Eph.3 p.127	Mean	(5 1 3)	Diff.		Sc2	Eph.1	Eph.3	Mean
3	15	10468												
		9	3.2	2.9	2.9	2.9	2.90	0 0 0	6.44	R031	7.9	8.1	8.0	8.00 +.10
	R	13	3.3	3.0	3.0	3.0	3.00	0 0 0	7.19	R032	8.0		7.7	7.85 +.2 +.1
	R	16	+2 3.9	3.9 3.90	4.05	4.00	3.98	.08 .07 .02	7.12	R033	8.7	8.8		8.75 +.10
	R	17		4.2		4.2	4.20	. 0 0	7.30	R034	9.0			9.0 ±
		18		4.7	4.35	4.7	4.58	.12 .21 .12	7.35					
	R	19		5.0	5.00	5.1	5.03	.03 .03 .07	7.09					
	R	20		5.5	5.65	5.7	5.62	.12 .03 .08	6.88					
	R	22		5.8	5.8	5.7	5.77	0 0 .1	6.99					
		23		5.8	5.7	5.5	5.67	1 0 .2	7.35					
		24		6.3	6.3	6.2	6.23	0 1 0	7.35					
Abl.		25		(7.2)	7.1		7.1	. 0 .	6.80	rej. dbl				
		26		7.2	7.3	7.2	7.23	0 1 0	6.88					
Abl.		27												
		28		7.5	7.60	7.5	7.53	.03 .07 .03	7.39					
		29		8.2	8.1	8.1	8.13	1 0 0	7.41					
		30		8.9	9.2?	9.0	9.03	.1 .2 0	(6.79)					
		31		?	9.0?	9.3?	9.15?	7 .2 1						
		27a		7.1	7.1	7.1	7.10	0 0 0						
		27b		7.7	7.5	7.5	7.57	1 .1 .1						
		25a		6.5	6.6	6.5	6.53	0 1 0						
		25b		7.1	7.2	7.1	7.13	0 1 0						
	R	024		6.1	6.1	6.1	6.10	0 0 0						
	R	025		6.3	6.60	6.5	6.47	.17 .13 .03						
	R	026		6.6	6.7	6.5	6.60	0 1 .1						
	R	027		7.0	6.9	6.8	6.90	1 0 .1						
	R	028		7.3	7.5	7.3	7.37	.1 1 .1						
	R	029		7.5	7.7	7.6	7.60	.1 1 0						
	R	2		4.9	5.2	4.9	5.00	.1 .2 .1						
	R	030	W.S	7.5	7.9	7.5	7.63	.1 .3 .1						

3 45

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Jan 9, 1914

Dec 8

Eth 1

10 45 1047 8

	Sec 1	Sec 2		Sec 2
9	37	2.9		032 47
13	34	3.1		033 85
16	43 4.0	40 4.00		034 93?
17	47 4.4	43 4.35		
18	51 4.8	49 4.85		
19	52 4.9	49 4.90		
20		54		
22		57		
23		55 57 5.60		
24		65 63 6.40		
DM. 25				
26		73		
25a		65		
25b		71		
27a		73		
27b		75		
28		75		
29		81		
30		90		
31		92?		
2	52 4.9	49 4.90		
024		6.1		
025		64		
026		66		
027		67		
028		71		
029		75		
030		75		
031		77		

11 10

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Jan 9, 1914

Sc 8 Eth 2 (a)

11 25 1047 8

		Sc 1	Sc 2	Cor Eclin.	Diff.
	9	1.3	1.0	1.0	8.34
	13	2.0	1.7	1.7	8.49
	16	2.3	2.0	2.0	9.10
	17	2.4	2.1	2.1	9.40
	18	2.9	2.6	2.6	9.33
	19	3.1	2.8	2.8	9.32
R	20	3.2	2.9	2.9	9.60
R	22	3.2	2.9	2.9	9.86
	23	3.2	2.9	2.9	10.12
	24	4.0 3.7	3.7 3.70	3.70	9.88
	25a	4.0 3.7	3.7 3.70	3.70	10.09
	25b		4.0	4.0	10.31
	26		4.0	4.6	10.12
	27a		4.1	4.1	10.30
	27b		4.7	4.7	10.26
	28		4.6	4.6	10.32
	29		5.0	5.6	10.54
	30		5.4	5.4	10.42
	31		6.1	6.12	
	32		6.3	6.33	
	33		6.9	6.97	
	34		7.1	7.20	
	35		7.5 7.1 7.60	7.62	
	36		8.2	8.37	

Defective?

	37			
	024			
	~~38~~	3.3	3.0	
R	025			
	~~39~~	3.6	3.3	
	026			
	~~40~~	3.7	3.4	

12 16

Incomplete 10 —

		Sc 1	Sc 2	Cor Eclin.
R	027	3.7	3.4	3.4
	028		4.2 4.20 4.2	4.20
R	029		4.0 4.05 4.1	4.05
	030		4.4 4.35 4.3	4.35
	031		4.7 4.65 4.6	4.65
R	032		4.1 4.05 4.0	4.05
	033		5.0 5.00 5.0	5.00
	034		5.3 5.40 5.5	5.40
R	035		6.1 6.05 6.0	6.07
	036		6.5 6.40 6.3	6.45
	037		6.7 6.70 6.7	6.76
R	038		7.1 7.10 7.1	7.20
	039		7.7 7.70 7.7	7.83
	038a		7.1 7.05 7.0	7.15
	038b		7.3 7.30 7.3	7.46
	040		8.1 8.10 8.1	8.26
	041		8.7 8.70 8.7	8.92

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Jan 9, 1915

Sc B 3d ⁊ Eclip.

3 " 1047 B

	Sc1	Sc2			
9	3.1	2.8		033	83
13	3.1	2.8		034	92?
16	4.3 4.0	4.0 4.00		"	4.9
17		4.3			
18		4.7			
19		5.0			
Defective 20					
22		5.8			
23		5.7			
24		6.3			
25a		6.5			
25b		7.1			
26		7.3			
27a		7.2			
27b		7.5			
28		7.5			
29		8.2			
30		9.0			
31		9.5?			
024		6.1			
025		6.4			
026		6.5			
027		6.7			
028		7.2			
029		7.5			
030		7.5			
031		7.7			
032		7.7			

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Jan 9, 1915

Dec 8 — 4" Cass. with Screen (b)

		Dif Sc1	Sc2	Cor. for Orden	Diff
	9	2.9	2.6	2.6	6.74
R	13	3.1	2.8	2.8	7.39
R	16	3.7	3.4	3.4	7.70
R	17	4.1 3.8	3.9 3.85	3.85	7.65
	18		4.0	4.0	7.93
	19		4.7	4.7	7.42
R	20		5.1	5.09	7.41
R	22		5.6	5.58	7.18
	23		5.4	5.39	7.63
	24		6.1	6.07	7.51
Dbl.	25				
	26		7.1	7.05	7.07
Dbl	27				
	28		th		
	29		8.2	8.07	7.47
	30		8.7	8.53	7.29
	31		9.1	8.90	7
	25a		6.3	6.27	7.52
	25b		7.0	6.96	7.35
	27a		7.1	7.04	7.36
	27b		7.7	7.60	7.36
	024		5.9	5.88	
R	025		th	.	
	026		6.7	6.67	
R	027		th	.	
	028		7.3	7.25	
R	029		7.7	7.60	
	030		7.7	7.60	
	031		7.9	7.79	

R	032	8.0	7.88
	033	th	.
	034	f	.
		4.7	4.7

faint - plates in this slip are very poor - large + hazy

3 45

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Jan. 11, 1915

						Eyp.1	Eyp.3	Mean (C)				Eyp.1	Eyp.2	Mean	
						p.130	p.132	(5 1 3)							
											Diff. 30	9.0	9.0	9.00	.00 6.82
		Se 1		Se 2							647 31	9.2	9.5	9.35	.21
	9	3.2		2.9		2.9	2.8	2.87	00 1						
	13	4.1 3.8		3.8	3.80	4.00	4.00	3.93	13 07 07 7.17						
	14	3.3		3.0		3.1	2.8	2.97	0 1 2 7.22						
	17	4.1 4.4		4.3	4.35	4.35	4.3	4.33	02 02 03 7.17						
	18	5.1 4.8		4.7	4.75	4.85	4.7	4.77	02 08 07 7.16						
	19			5.1		4.90	5.0	5.00	1 1 0 7.12						
R	20			5.5		5.4		5.45	10 . 7.05						
R	22			6.0		5.7	5.8	5.83	2 1 0 6.93						
	23			6.1		5.60	5.7	5.80	30 20 10 7.22						
	24			6.3		6.40	6.3	6.33	03 07 03 7.25						
	25a			6.9		6.5	6.5	6.63	3 1 1 7.16						
	26			7.4		7.3	7.3	7.33	1 0 0 6.79						
	27a			7.5		7.3	7.2	7.33	20 1 7.07						
	27b			8.1		7.5	7.5	7.70	4 2 2 7.26						
	28b			7.4		7.1	7.1	7.20	2 1 1 7.11						
	28			8.2		7.5	7.5	7.73	5 2 2 7.19						
	2			5.1		4.90		5.00	10 10 . 7.38						
	29			8.8		8.1	8.2	8.37	4 3 2 7.27						
	024			6.1		6.1	6.1	6.10	0 0 0						
R	025			6.4		6.4	6.4	6.40	. 00						
	026			6.9		6.6	6.5	6.55	. 0 1						
R	027			6.7		6.7	6.7	6.70	. 0 0						
	028			7.1		7.1	7.2	7.15	. 1/2 0						
R	029			7.9		7.5	7.5	7.63	3 1 1						
	030			Duplicate		7.5	7.5	7.50	. 00						
	031			7.7		7.7	7.7	7.70	. 00						
R	032			8.1		7.7	7.7	7.83	3 1 1						
	033			8		8.5	8.3	8.40	. 1 1						
	034					9.3?	9.2?	9.25?	. 1 0						

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1914phae.proj..993L

Jan 13, 1915

Dec 10½ Eph.

6.82 MW 1035

		Sc1	Sc2
	13	3.3	
		4.0	
W.S	16	~~5.7~~	
4.3	17	4.7	
	18	4.1	
	19	5.5	5.2
	20	6.3	6.0
	22		6.2
R	23		t/p
	24		6.7
	25a		7.1
	25b		t/p
	26		8.1
	27a		7.8
	27b		t/p
R	28		t/p
	29		9.2?
	c		5.2
	024		6.2
	025		7.1
	026		7.3
	027		?
	028		8.1
	029		8.7
	030		Too close to b. star
	031		8.9

Images poor - especially faint ones

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1914phae.proj..993L

Jan 12, 1915

Dec 8 2d " Ecth.

1035

	Sec 1	Sec 2
13	3.1	
16	3.8	
17	4.3	3.9
18		4.2
19		4.8
20		5.1
22		5.3
R 23		Defective.
24		6.1
25a		6.3
26		6.1
25b		7.0
27a		7.1
27b		7.7
R 28		Defective
29		Sec. Sec. is b.s. st.
30		8.
024		5.9
025		6.5
026		6.5 6.7
028		7.3
029		7.4
030		7.7
031		8.1

Images poor

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1914phae.proj..993L

Jan 12, 1915

Sc 8 4th Eyp.

MW 1035

	Sc1	Sc2	
13	2.2		024
16	2.3		025
17	2.6		026
18	2.6		027
19	3.0		028
20	3.2		029
22	3.3		030
R 23	4p		031
24	3.4		032
25	3.7		033
25½	4.0	3.7	034
26	4.1	3.7	035
27a		4.0	036
27b		4.2	037
R 28		4.3	038
29		W.S 4.8	039
30		W.S 4.3	040
R 31		W.S 4.5	041
32		6.4	0
33			
R 34		9.1	

Images poor

Accidentally broke plate - before measures were finished

E.P.S.

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1914phae.proj..993L

Jan 14, 1915

δ Cep

	13	3.1
	16	3.3
	17	3.7
Obs.	18	
	19	4.7
	20	5.1
	22	5.3
Rejected.	23	
	024	5.7
	028	6.7
	026	6.9
	029	8.0
	025	6.4
	027	7.0
	030	8.2
	031	8.9
	6	2.1
	8	2.2

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1914phae.proj...993L

Jan 14, 1915

δ Ceti

2d Exp.

324 MW

	Sec 2
13	4.3
16	5.2
17	6.1
19	7.1
20	7.8
22	8.0
024	8.2
026	Scratched.
025	9.3
027	9
028	9
029	9
2	7.1
	Sec 1
6	3.1
8	3.2

3d Exp.

	Sec 2
	5.8
	7.1
4.4	7.9 8.5 8.9
	9
	~~8.9~~
	9.0
	Sec 1
	3.7
	4.1

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Jan 15, 1915

δ Cep	4h Eph.	5h Eph.
2 30	32.4 MW	MW 32.4
	Sec 2	Sec 2
6	46.	50.
8	53.	53.
6		
18	89.	87.
30		
18	77.	77.
17	93?	95?

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1000...fits.gz?equinox=1950

Jan 16, 1915

D. of B

6th Cph.

MW 324

	Sc1	Sc2
6	3.8	
8	4.1	3.8
13		5.9
16		6.1
17		4.6
19		8.9
20		8.7
22		d
2		
024		
025		
026		

7th Cph.

	Sc1	Sc2
	3.1	
	3.3	
		4.2
		5.2
	6.1	
	4.2	
	7.2	
	8.1	
	7.2	
	8.3	
	9.3?	
	d	

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1914phae.proj..993L

Jan 16, 1915

δ Cep.

	324 mW	
	Se 1	Se 2
6	2.2	
8	2.3	
13	3.1	
16	3.3	
17	3.7	
19	4.1	4.3
22		5.2
2		4.3
024		5.6
025		6.3
026		6.7
027		6.8
20		4.2
028		7.4
029		7.8
030		8.3
031		8.9

2 50

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1914phae.proj..093L

Estimated quality of MW Plates. (M5)

May 22, 1915

MW	82	4
"	108	5
"	86	5
"	111	4
"	107	5
"	106	5
"	109	4
"	112	3+
"	105	5
"	110	4
"	84	5
"	85	4? Broken

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1914phae.proj..993L

June 23, 1915

S e m

11 30 MW 2055 b1 Yellow

	Sc1	Sc2	
R Not within limit 15			
17	2.2		
18	2.3		
19	2.7		
21	2.9		
21a	3.1		
22		4.1	4.0
23	3.9	3.7	
24		3.9	4.1
R Not within limit 25			
26		5.1	
27		5.1	
28		5.3	
29		5.3	
30		7.1	6.9
31		7.0	
32		8.0	7.8
33		8.7	
34		8.7	8.9
35		9.7	
35a		9.0	9.2
36		t/r	
37		ns	
38		ns	
39		10.0	

11 45

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