KG
11365
977

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KG 11365. 979

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Messier 3.

Out of focus plate I 25384 shows well stars α and β. and faintly γ. but of the regular sequence beginning at a none seem to show at all.
They are perhaps too near the cluster as well as faint.

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2998
1499

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ICG 113 G5; 977

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Var. No. 109 (M 3)

Dec 31, 1902

✓ K 13
m 3 v
v 1 m

✓ K 3
m 2 v
v 1 m

✓ K 12
m 1 v
v 3 0

✓ K 8
m 1 v
v 2 0

✓ K 11
m 2 v
v 2 m

✓ K 2
m 2 v
v 2 m

✓ K 10
m 2 v
v 3 m

✓ K 1
m 2 v
v 1 0

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1902phae.proj..978L

No 109 (cont)
Dec 31, 1902

K6
m 1 v
v 2 n

K19
m 2 v
v 1 n

K9
l 2 v
v 1 m

K18
m 3 v
v 1 n

K7
m 2 v
v 2 n

K5
m 2 v
v 1 n

K23
n 1 v
v 2 0

K16
m 2 v
v 2 n

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1902phae.proj..978L

No 109 (cont'd)
Dec 31, 1902

✓ K 21
n 1 v
v 30

✓ K 4
n 1 v
v 2 n

✓ K 22
n 2 v
v 3 0

✓ K 17
n 2 v
v 1 n

✓ K 25
n 2 v
v 1 0

✓ K 15
n 2 v
v 3 0

✓ K 14
n 2 v
v 1 n

✓ K 20
n 2 v
v 2 0

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1902phae.proj...978

No 109 (cont)

Dec 31, 1902

✓ K 24
n 1 v
v 3 0

✓ A 3678
n 2 v
v 1 n?

✓ x 6820
n 2 v
v 1 n

✓ A 3682
Too poor.

✓ A 3681

✓ x 7482
Poor in region of var.

✓ A 3677

✓ A 3672

✓ x 6792
n 2 v
v 1 n

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1902phae.proj..978L

No 109 (cont)

Jan 2, 1903

✓ A 3679
m, v
v 2 w

✓ x 8597
g 2 v
v 1 h

✓ x 6844
l 3 v
v 1 f

✓ x 6854
k 2 v
v 1 l

✓ x 8584
l 2 v
v 1 w

✓ x 8563
g 2 v
v 1 h

✓ x 7483
l 2 v
v 1 f

✓ x 7488
k 1 v
v 0 l
v 2 w

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1902phae.proj..978L

No 109 (cont'd)
Jan 2, 1903

✓ x 8611
m 1 v
v 2 n

✓ x 8624
m 2 v
v 1 n

✓ x 8625
l 2 v
v 0 m
v 2 n

✓ A 1751

✓ x 9204
l 2 v
v 1 m

✓ x 9158
g 2 v
v 2 h

✓ x 8612
d 2 v
v 1 e

✓ x 9205
m 2 v
v 2 n

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1902phae.proj..978L

No. 109 (cont)
Jan 2, 1903

✓ x 8618
l 2 v
v 1 m

✓ x 8650
f 1 v
v 2 g

✓ x 9166
e 3 v
v 1 f

✓ x 8619
g 1 v
v 2 h

✓ x 6923
e 2 v
v 1 f

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Van. No 110 (K 3)
Jan 2, 1903

K 13
l 3 v
v 0 m
v 4 m

K 3
e 1 v
v 3 f

K 12
m 1 v
v 3 m

K 8
e 2 v
v 1 f

K 11
m 1 v
v 3 m

K 2
f 1 v
v 2 g

K 10
l 2 v
v 1 m

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1902phae.proj..978L

No. 110 (cont)

Jan 2, 1903

K 1
k 2 v
v 1 l

K 6
e 1 v
v 3 f

K 19
h 2 v
v 0 k
v 2 l

K 9
e 3 v
v 1 f

K 18
l 2 v
v 1 m

K 7
e 3 v
v 2 f

K 5
e 1 v
v 2 f

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1902phae..proj...978L

No 110 (cont.)

Jan 3 1903

✓ K 23
l 2 v
v 1 f

✓ K 16
l 2 v
v 1 m

✓ K 21
l 1 v
v 2 m

✓ K 4
l 1 v
v 2 f

✓ K 22
q 2 v
v 1 h

✓ K 17
l 1 v
v 2 m

✓ K 25
d 2 v
v 0 e
v 3 f

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1902phae.proj..978L

No 110 (cont)
Jan 3, 1903

✓ K 15
m 1 v
v 2 m

✓ K 14
l 2 v
v 1 m

✓ K 20
k 2 v
v 0 l
v 2 m

✓ K 24
e 2 v
v 1 f

✓ x 8618
k 1 v
v 2 l

✓ x 9205
m 1 v
v 2 m

✓ x 8612
l 2 v
v 1 m

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1902phae.proj..978L

No 110 (cont)

Jan 3, 1903

✓ x 9158
g 2 v
v 1 h

✓ x 8625
h 1 v
v 0 k
v 2 l

✓ x 9204
k 1 v
v 1 l

✓ a 1751

✓ x 8624
h 1 v
v 2 k

✓ x 8611
k 2 v
v 1 l

✓ x 7482
j 1 v
v 2 h

✓ x 7483
l 2 v
v 1 m

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1902phae.proj..978L

No 110 (cont)
Jan 3, 1903

✓ x 8563
l 2 v
v 1 w

✓ x 8584
k 2 v
v 1 l

✓ x 6854
k 1 v
v 2 l

✓ x 6844
h 1 v
v 2 k

✓ x 8597
l 2 v
v 1 f

✓ a 3677
l 1 v
v 1 w

✓ x 6792
k 2 v
v 0 l
v 2 w

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1902phae.proj..978L

No 110 (cont)

Jan 3, 1903

✓ a3672

✓ a3677 9
m 1 v
v 2 n

✓ x7488
g 2 v
v 1 h

✓ a3681

✓ a3682

✓ ~~a~~ 6820
m 2 v
v 1 n

✓ a3678
m 1 v
v 2 0

✓ a1838
g 1 v
v 3 h

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1902phae.proj..978L

No. 110 (cont.)

Jan 3, 1903

✓ x 8631
f 2v
v 1g

✓ x 6876
f 1v
v 2g

✓ x 7654
f 1v
v 1g

✓ x 8779
f 1v
v 2g

✓ x 8605
e 2v
v 0f
v 3g

✓ x 6916.
f 1v
v 2g

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Var. No 111 (K3)
Jan 3, 1903

K 13
m 3 v
v 1 m

K 3
h 2 v
v 1 k

K 12
m 1 v
v 2 m

K 8
f 1 v
v 2 g

K 11
m 1 v
v 2 m

K 2
h 2 v
v 1 k

K 10
m 1 v
v 2 m

K 1
m 1 v
v 2 v

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1902phae.proj..978L

No 111 (cont)

Jan 3, 1903

K 6
g 2 v
v 1 h

K 19
h 2 v
v 0 k
v 2 l

K 9
f 2 v
v 1 g

K 18
l 2 v
v 1 m

K 7
g 1 v
v 2 h

K 5
h 1 v
v 2 k

K 23
f 1 v
v 0 g
v 2 h

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No 111 (cont'd)

Jan 3, 1903

K 16
m 1 v
v 2 n

K 21
g 2 v
v 1 h

K 4
h 1 v
v 0 k
v 3 l

K 22
g 1 v
v 2 h

K 17
l 2 v
v 1 m

K 25
l 3 v
v 0 f
v 2 g

K 15
m 2 v
v 1 n

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No. 111 (cont)

Jan 3, 1903

✓ K 20
l 2 v
v 1 m

✓ K 24
f 2 v
v 1 g

✓ K 14
m 1 v
v 2 n

✓ A 3678.

✓ x 6820
h 1 v
r 2 k

✓ A 3682

✓ A 3681

✓ x 7482
g 2 v
v 1 h

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1902phae.proj...978L

No 111 (cont)
Jan 3, 1903

✓ a 3677

✓ a 3672
g 1 v
v 2 h

✓ x 6792
m 2 v
v 1 m

✓ a 3677 9
l 3 v
v 2 f

✓ x 8597
h 2 v
v 1 k

✓ x 6844
g 1 v
v 2 h

✓ x 6854
l 2 v
v 1 f

✓ x 8584
l 2 v
v 1 m

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No. 111 (cont.)
Jan 3, 1903

✓ x 8563
h, v
v 2 k

✓ x 7483
l 3 v
v 2 f

✓ x 7488
l 2 v
v 1 m

✓ x 8611
l 2 v
v 0 m
v 2 n

✓ x 8624
k 2 v
v 1 l

✓ a 1751

✓ x 9204
f 2 v
v 1 g

✓ x 8625
h, v
v 0 k
v 2 l

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No 111 (cont)

Jan 6 1903

✓ x 9158
g 1 v
v 2 h

✓ x 8612 r
l 2 v
v 1 m

✓ x 9205
h 2 v
v 1 k

✓ x 8618
k 1 v
v 2 l

✓ x 8655
f 2 v
v 0 g
v 2 h

✓ x 7489
e 1 v
v 2 f

✓ x 6872
f 1 v
v 2 g

✓ x 8444
e 1 v
v 2 f

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Var. No 114 (M 3)

Jan. 6, 1903

K 13
m 1 v
v 2 n

K 3
e 2 v
v 2 f

K 12
m 2 v
v 1 n

K 8
g 1 v
v 2 h

K 11
m 2 v
v 1 n

K 2
f 1 v
v 2 g

K 10
m 2 v
v 1 n

K 1
f 1 v
v 2 g
v 2 h

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No 114 (cont)

Jan 6, 1903

K 6
f 2 v
v 1 g

K 19
m 2 v
v 1 m

K 9
f 2 v
v 0 g
v 2 h

K 18
m 2 v
v 1 m

K 7
g 1 v
v 2 h

K 5
f 2 v
v 1 g

K 23
m 2 v
v 0 m
v 3 v

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No. 114 (cont)
Jan 6, 1903

✓ K 16
m 1 v
v 2 0

✓ K 21
m 2 v
v 1 n

✓ K 4
f 1 v
v 2 g

✓ K 22
m 3 v
v 2 n

✓ K 17
m 2 v
v 1 n

✓ K 25
m 3 v
v 0 n
v 3 0

✓ K 15
m 2 v
v 0 n
v 3 0

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No 114 (cont)
Jan 6, 1903

✓ K 20
m 2 v
v 2 n

✓ K 24
m 1 v
v 3 0

✓ K 14
m 1 v
v 3 0

✓ x 8618
l 2 v
v 0 m
v 2 n

✓ x 9205
m 2 v
v 1 n

✓ x 8612
m 1 v
v 2 n

✓ x 9158
f 1 v
v 2 g

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No. 114 (cont.)

Jan. 7. 1903

✓ x 8625
k 2 v
v 0 l
v 2 m

✓ x 9204
m 2 v
v 1 n

✓ a 1751
l 3 v
v 1 f

✓ x 8624
f 2 v
v 1 g

✓ x 8611
m 1 v
v 2 n

✓ x 7488
l 2 v
v 1 m

✓ x 7483
g 1 v
v 2 h

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No 114 (cont'd)

Jan 7, 1903

✓ x 8563
f 2 v
v 1 g

✓ x 8584
m 2 v
v 1 m

✓ x 6854
l 2 v
v 1 m

✓ x 6844
m 1 v
v 2 m

✓ x 8597
g 2 v
v 0 h
v 2 k

✓ A 3679
l 2 v
v 0 m
v 2 m

✓ x 6792
h 2 v
v 1 k

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No 114 (cont)
Jan. 7, 1903

✓ a 3672
l 2 v
v 1 m

✓ a 3677
h 2 v
v 1 l ~~k~~ h

✓ x 7482
f 2 v
v 1 g

✓ a 3681
g 1 v
v 2 h

✓ a 3682
f 1 v
v 2 g

✓ x 6820
m 2 v
v 1 n

✓ ~~a~~ a 3678
m 1 v
v 2 n

✓ a 1838
f 2 v
v 1 g

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No 114 (cont'd)

Jan 7, 1903

✓ A 1780
f 2v
v 1g

✓ x 6828
g 2v
v 1h

✓ x 8655
f 2v
v 1g

✓ x 9558
g 1v
v 2h

✓ x 8779
g 1v
v 2h

✓ x 6916
e 3v
v 1f

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Var. No 115 (M 3).
Jan. 7, 1903

✓ K 13
m 2 v
v 1 n

✓ K 3
n 1 v
v 2 0

✓ K 12
m 3 v
v 1 n

✓ K 8
m 2 v
v 1 n

✓ K 11
m 2 v
v 1 n

✓ K 2
m 2 v
v 0 n
v 3 0

✓ K 10
m 3 v
v 0 n
v 3 0

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1902phae..proj...978L

No 115 (cont)
Jan 7, 1903

✓ K 1
m 2 v
v 0 m
v 3 0

✓ K 6
m 2 v
v 1 m

✓ K 19
m 1 v
v 2 0

✓ K 9
m 2 v
v 1 0

✓ K 18
m 1 v
v 2 0

✓ K 7
m 2 v
v 2 m

✓ K 5
m 2 v
v 1 m

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No 115 (cont'd)
Jan 8, 1903

✓ K 20
m 2 v
v 1 n

✓ K 16
m 2 v
v 1 n

✓ K 21
m 3 v
v 1 n

✓ K 4
m 2 v
v 1 n

✓ K 22
m 3 v
v 2 n

✓ K 17
m 2 v
v 0 n
v 3 0

✓ K 25
m 2 v
v 2 n

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1902phae..proj..978L

No 115 (cont.)
Jan 8, 1903

✓ K 15
m 2 v
v 10

✓ K 20
m 2 v
v 0 w
v 30

✓ K 24
m 1 v
v 2 0

✓ K 14
m 2 v
v 1 w

✓ x 8624
m 2 v
v 1 w

✓ A 1751
l 1 v
v 2 m

✓ x 9204
m 2 v
v 1 w

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1902phae.proj..978L

No 115 (cont.)
Jan. 8, 1903

✓ x 8625
m 1 v
v 2 0

✓ x 9158
l 2 v
v 1 m

✓ x 8612
l 1 v
v 2 m

✓ x 9205
k 2 v
v 1 l

✓ x 8618
m 2 v
v 2 n

✓ A 3678
l 1 v
v 2 m

✓ x 6820
k 1 v
v 2 k

✓ A 3682
l 2 v
v 1 f

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1902phae.proj...978L

No 115 (cont'd)

Jan 8, 1903

✓ A 3681
n F 1

✓ x 7482
m 1 K?

✓ A 3677
l 1 v
v 2 m

✓ A 3672
m 2 v
v 1 m

✓ x 6792
g 1 v
v 2 h

✓ A 3679
m 1 v
v 2 0

✓ x 8597
f 1 v
v 2 g

✓ x 6844
m 1 v
v 2 m

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1902phae.proj..978L

No 115 (cont)
Jan 9, 1903

✓ x 6854
m 1 v
v 2 m

✓ x 8584
e 1 v
v 3 f

✓ x 8563
e 3 v
v 0 f
v 3 g

✓ x 7483
mF 1 ?

✓ x 7488
m 1 v
v 1 0

✓ x 8611
m 1 v
v 2 0

✓ a 1830
d 2 v
v 1 e

✓ a 1840
e 2 v
v 1 f

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1902phae.proj..978L

No 115 (cont)
Jan 9, 1923

✓ x 6990
d 2 v
v 1 e

✓ x 8650
g 2 v
v 1 h

✓ x 8655
e 1 v
v 2 f

✓ x 6980
e 1 v
v 2 f

✓ x 6909
e 2 v
v 1 f

~~x 8612~~
e 2 v
v 1 f

x 9205
e 2 v
v 1 f

x 8618
e 2 v
v 1 f

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1902phae.proj..978L

Var. No 121 (M3)
Jan. 8, 1903

K 13
m 2 v
v 2 m

K 3
l 2 v
v 1 m

K 12
m 3 v
v 2 m

K 8
l 1 v
v 2 m

K 11
m 1 v ?
v 2 m

"Hr" is defective on this plate.

K 2
m 2 v
v 1 m

K 10
m 1 v
v 2 m

K 1
0 2 v
v 1 p

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1902phae.proj..978L

No. 121 (cont)
Jan 8, 1903

✓ K 6
m 2 v
v 1 n

✓ K 19
m 2 v
v 2 n

✓ K 9
l 1 v
v 2 m

✓ K 18
m 2 v
v 1 n

✓ K 7
m 2 v
v 2 n

✓ K 5
l 2 v
v 0 m
v 2 n

✓ K 23
m 1 v
v 2 n

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1902phae.proj..978L

No 12 (cont)
Jan 9, 1903

✓ K 16
m 1 v
v 2 n

✓ K 21
m 2 v
v 2 n

✓ K 4
l 2 v
v 0 m
v 2 n

✓ K 22
m 2 v
v 1 n

✓ K 17
m 2 v
v 2 n

✓ K 25
m 1 v
v 2 n

✓ K 15
m 2 v
v 1 n

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1902phae.proj..978L

No 121 (cont)
Jan 9, 1903

✓ K 20
m 2 v
v 1 w

✓ K 24
m 2 v
v 1 w

✓ K 14
l 3 v
v 0 m
v 3 w

✓ x 8611
l 2 v
v 1 w

✓ x 7488
g 2 v
v 1 h

✓ x 7483
l 1 v
v 2 w

✓ x 8563
e 2 v
v 1 f

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1902phae.proj..978L

No 121 (cont)
Jan 9, 1903

✓ x 8584
l 2 v
v 1 m

✓ x 6854
k 1 v
v 1 l

✓ x 6844
l 2 v
v 0 m
v 2 m

✓ x 8597
k 1 v
v 2 k

✓ a 3679
l 1 v
v 2 m

✓ x 6792
k 1 v
v 2 k

✓ a 3672
k 1 v
v 0 l
v 2 m

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1902phae.proj..978L

No 12 (cont)
Jan 9, 1903

✓ a 3677
l 2 v
v 1 m

✓ x 7482
k 1 v
v 2 l

✓ a 3681

✓ a 3682

✓ x 6820
m 2 v
v 1 n

✓ a 3678
h 2 v
v 0 k
v 1 l

✓ x 8618
l 1 v
v 2 m

✓ x 9205
h 2 v
v 1 k

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1902phae.proj..978L

No 121 (cont)
Jan 9, 1903

✓ x 8612
k 2 v
v 1 l

✓ x 9158
l 2 v
v 1 m

✓ x 8625
l 1 v
v 2 m

✓ x 9204
g 2 v
v 1 h

✓ A 1751

✓ x 8624
h 2 v
v 1 k

✓ A 1838
e 3 v
v 1 f

✓ x 8631
g 2 v
v 1 h

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1902phae.proj..978L

No 12 (cont)
Jan 9, 1903

✓ x6875
2 3v
v 1f

✓ x7654
2 1v
v 2f

✓ x8605
f 1v
v 2g

✓ x 6909
f 1v
v 2g

✓ x 6916
f 1v
v 2g

✓ x 6923
f 2v
v 1g

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1902phae.proj..978L

Var. No 125 (M 3)
Jan 12, 1903

✓ K 13
g 2 v
v 1 h

✓ K 3
h 2 v
v 1 m

✓ K 12
h 2 v
v 2 k

✓ K 8
h 2 v
v 0 m
v 3 n

✓ K 11
g 2 v
v 1 h

✓ K 2
h 2 v
v 1 m

✓ K 10
g 2 v
v 1 h

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1902phae.proj..978L

No 125 (cont)
Jan. 12, 1903

✓ K 1
k 2 v
v 0 l
v 2 m

✓ K 6
l 2 v
v 0 m
v 3 n

✓ K 19
k 2 v
v 1 l

✓ K 9
l 2 v
v 0 m
v 2 n

✓ K 18
l 1 v
v 2 m

✓ K 7
l 2 v
v 1 m

✓ K 5
m 1 v
v 3 n

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1902phae.proj..978L

No 125 (cont)
Jan 12, 1903

✓ K 23
m i v
v 2 n

✓ K 16
h i v
v i k

✓ K 21
l 2 v
v o m
v 3 n

✓ K 4
m i v
v 3 n

✓ K 22
m i v
v 2 n

✓ K 17
g 2 v
v i h

✓ K 25
m i v
v 3 n

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1902phae.proj...978L

No 125 (cont)

Jan 12, 1903

K 15
g 2 v
v 0 h
v 2 k

K 20
l 2 v
v 1 m

K 24
m 2 v
v 3 n

K 14
g 1 v
v 0 h
v 2 k

x 8624
l 2 v
v 0 m
v 3 n

x 9204
l 1 v
v 2 k

x 8625
l 1 v
v 2 m

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1902phae.proj..978L

No 125 (cont)
Jan. 12, 1903

✓ A 1751
m 1 v
v 2 n

✓ x 9158
g 1 v
v 2 h

✓ x 8612
f 2 v
v 1 g

✓ x 9205
h 2 v
v 0 k
v 2 l

✓ x 8618
l 2 v
v 0 m
v 3 n

✓ A 3678
l 2 v
v 0 m
v 2 n

✓ x 6820
l 1 v
v 1 m

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1902phae.proj..978L

No 125 (cont)
Jan 12, 1903

✓ a 3682

✓ a 3681
g 2 v
v 1 h

✓ x 7482
h 1 v
v 1 k

✓ a 3677
h 2 v
v 0 k
v 2 l

✓ a 3672
g 2 v
v 1 h

✓ x 6792
l 2 v
v 0 m
v 2 n

✓ a 3679
l 2 v
v 1 m

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1902phae.proj..978L

No 125 (cont)

Jan 12, 1903

✓ x8597
m i v
v 2 m

✓ x 6844
k, v
v, l

✓ x 6854
l 2 v
v, 1 m

✓ x 8584
g 2 v
v 0 h
v 2 k

✓ x 8563
h 2 v
v, 1 k

✓ x 7483
l, v
v, 1 m

✓ x 7488
h, 1 v
v, 1 k

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1902phae.proj..978L

No 125 (cont)

Jan 12, 1903

✓ x 8611
h 2 v
v 1 k

✓ a 1840
f 2 v
v 1 g

✓ a 1830
g 1 v
v 2 h

✓ x 8650
f 2 v
v 0 g
v 3 h

✓ x 6875
f 2 v
v 0 g
v 2 h

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1902phae.proj..978L

Var. No 127 (N 3)
Jan 12, 1903

✓ K 13
d 2 v
v 1 e

✓ K 3
e 2 v
v 3 f

✓ K 12
e 1 v
v 3 f

✓ K 8
d 3 v
v 1 e

✓ K 11
e 1 v
v 2 f

✓ K 2
e 1 v
v 3 f

✓ K 10
e 3 v
v 0 f
v 2 g

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1902phae.proj..978L

No 127 (cont)

Jan 12, 1903

K 1
g 2 v ?
v 1 h ?

K 6
e 1 v
v 3 f

K 19
e 1 v
v 3 f

K 9
d 2 v
v 1 e

K 18
d 2 v
v 2 e

K 7
d 2 v
v 3 e

K 5
e 1 v
v 3 f

K 23
e 2 v
v 3 f

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1902phae.proj..978L

No 127 (cont.)

Jan 22 1903

✓ K 16
d 1 v
v 2 e

✓ K 21
d 2 v
v 1 e

✓ K 4
d 2 v
v 2 e

✓ K 22
e 1 v
v 3 f

✓ K 17
e 1 v
v 2 f

✓ K 25
d 2 v
v 1 e

✓ K 15
d 2 v
v 0 e
v 3 f

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1902phae.proj..978L

No 127 (cont)

Jan. 22, 1903

✓ K 20
d 2 v
v 2 e

✓ K 24
e 1 v
v 3 f

✓ K 14
e 1 v
v 2 f

✓ x 8618
d 1 v
v 2 e

✓ x 9205
d 3 v
v 2 e

✓ x 8612
d 1 v
v 2 e

✓ x 9158
d 2 v
v 1 e

✓ A 1751

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1902phae.proj..978L

No 127 (cont)
Jan 22, 1903

1 x 8625

---

x 9204
div
v 2 e

x 8624
C 2 v
v 0 d
v 3 e

x 8611
d 2 v
v 3 e

x 7488
d 2 v
v 1 e

x 7483

---

x 8563
e 2 v
v 2 f

x 8584

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1902phae.proj..978L

No 127 (cont)

Jan. 22, 1903

✓ x 6854

✓ x 6844
d 2 v
v 2 e

✓ x 8597
d 1 v
v 2 e

✓ a 3679
d 2 v
v 1 e

✓ x 6792

✓ a 3672

✓ a 3677

✓ x 7482

✓ a 3681

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1902phae.proj..978L

No 127 (cont)

Jan. 22, 1903

✓ A 3682

✓ x 6820

✓ A 3678

✓ A 1838

Bn

The measures of No. 127 may have to be rejected as the star is difficult - being near a very bright object - too near for separation on any of the plates.

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1902phae.proj...978L

Var. No. 131 (M 3)

Jan. 22, 1903

✓ K 13
l 1 v
v 2 m

✓ K 3
l 1 v
v 2 m

✓ K 12
l 2 v
v 1 m

✓ K 8
l 1 v
v 2 m

✓ K 11
l 2 v
v 0 m.
v 3 m

✓ K 2
k 2 v
v 1 l

✓ K 10
l 2 v
v 1 m

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1902phae.proj..978L

No 131 (cont)

Jan. 22, 1903

✓ K 1
m 1 v
v 2 n

✓ K 6
k 2 v
v 1 l

✓ K 19
e 2 v
v 0 f
v 2 g

✓ K 9
k 2 v
v 1 l

✓ K 18
e 2 v
v 1 f

✓ K 7
l 2 v
v 1 m

✓ K 5
l 1 v
v 2 m

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1902phae.proj...9781

No 131 (cont)

Jan 22, 1903

✓ K 23
e 1 v
v 2 f

✓ K 16
g 2 v
v 1 h

✓ K 21
e 2 v
v 1 f

✓ K 4
l 2 v
v 1 m

✓ K 22
l 2 v
v 1 f

✓ K 17
e 3 v
v 0 f
v 2 g

✓ K 25
e 2 v
v 1 f

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1902phae.proj..978L

No 131 (cont.)

Jan. 23, 1903

✓ K 20
e 2 v
v 1 f

✓ K 24
f 1 v
v 2 g

✓ K 14
k 1 v
v 1 l

✓ K 15
k 1 v
v 0 l
v 2 m

✓ A 3678
g 2 v
v 1 h

✓ x 6820
g 2 v
v 1 h

✓ A 3682
Too poor

✓ A 3681
Too poor

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1902phae.proj..9781

No 131 (cont)
Jan 23, 1903

✓ x7482
e 2 v
v 1 f

✓ a 3677
k 2 v
v 1 l

✓ a 3672
g 2 v
v 1 h

✓ x 6792
h 1 v
v 2 k

✓ a 3679
f 2 v
v 1 g

✓ X 8597
k 1 v
v 2 l

✓ x 6844
h 1 v
v 2 k

✓ x 6854
k 2 v
v 1 l

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1902phae.proj..978L

No 131 (cont)

Jan. 26 1903

✓ x 8584
k 1 v
v 1 l

✓ x 8563
g 1 v
v 2 h

✓ x 7483
f 2 v
v 1 g

✓ x 7488
g 1 v
v 2 h

✓ x 8611
g 1 v
v 0 h
v 2 k

✓ x 8624
f 2 v
v 1 g

✓ x 9204
g 2 v
v 1 h

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1902phae.proj..0781

Same (cont)
Jan 26, 1903

✓ x 8625
g 3 v
v 1 h

✓ a 1751

✓ x 9158
f 1 v
v 2 g

✓ x 8612
f 1 v
v 3 g

✓ x 9205
f 2 v
v 0 g
v 2 h

✓ x 8618
f 1 v
v 2 g

✓ x 8650
g 2 v
v 0 h
v 2 k

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1902phae.proj..978L

No 131 (cont)

Jan 26, 1903

✓ x 8632
f 1 v
v 2 g

✓ x 8619
g 1 v
v 2 h

✓ x 8605
f 2 v
v 0 g
v 2 h

✓ x 6923
f 2 v
v 1 g

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1902phae.proj..9781

Var. No 132 (M3)
Jan 26, 1903

✓ K 13
f 1 v
v 2 g

✓ K 3
f 1 v
v 2 g

✓ K 12
e 3 v
v 0 f
v 3 g

✓ K 8
g 2 v
v 0 h
v 2 k

✓ K 11
f 1 v
v 2 g

✓ K 2
f 2 v
v 0 g
v 2 h

✓ K 10
g 2 v
v 1 h

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1902phae.proj..978L

No 132 (cont)

Jan. 26, 1903

✓ K 1
k 2 v ?
v 1 l ?

✓ K 6
k 1 v
v 2 l

✓ K 19
g 1 v
v 2 h

✓ K 9
h 2 v
v 1 k

✓ K 18
g 2 v
v 1 h

✓ K 7
h 1 v
v 2 k

✓ K 5
g 2 v
v o h
v 2 k

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1902phae.proj..9781

No 132 (cont)

Jan 26, 1903

K 23
k 2 v
v 1 l

K 16
f 2 v
v 1 g

K 14
f 2 v
v 0 g
v 3 l

K 4
f 2 v
v 0 g
v 3 l

K 22
g 2 v
v 1 l

K 17
e 2 v
v 1 f

K 25
l 1 v
v 2 m

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1902phae.proj..978L

No 132 (cont)
Jan 26, 1903

K 20
k 2 v
v 1 l

K 24
k 1 v
v 2 l

K 21
g 2 v
v 1 h

K 15
f 1 v
v 2 g

x 8618
g 2 v
v 1 h

x 9205
f 2 v
v 1 g

x 8612
l 2 v
v 1 f

x 9158
h 2 v
v 1 k

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1902phae.proj...9701

No 132 (cont)

Jan 26, 1903

✓ a 1751

✓ x 8625
f 2v
v 2g

✓ x 9204
e 2v
v 1f

✓ x 8624
f 2v ?
v 1g ?

✓ x 8611
f 2v
v 1g

✓ x 7488
f 1v
v 2g

✓ x 7483
h 2v
v 1k

✓ x 8563
l 2v
v 1m

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1902phae.proj..978L

No 132 (cont)

Jan 28/6 1903

✓ x 8584
l i v
v 2 m

✓ x 6854
f 2 v
v 0 q
v 2 h

✓ x 6844
l i v
v 2 m

✓ x 8597
q 2 v
v 1 h

✓ a 3679
k i v
v 2 l

✓ x 6792
k 2 v
v 1 l

✓ a 3672

✓ a 3677
l i v
v 2 m

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1902phae.proj...978L

No 132 (cont)

Jan 29 1903

✓ x 7482
f 1 v
v 2 g

✓ A 3681

✓ A 3682

✓ x 6820
l 1 v
v 2 m

✓ A 3678
m 2 v
v 1 w

✓ x 8632
f 2 v
v 1 g

✓ x 9166
g 2 v
v 1 w

✓ x 8619
g 2 v
v 1 w

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1902phae.proj..978L

No 132 (cont)

Jan 29, 1903

✓ K 6909
e 3v
v 1 f

No 133 (M 3)

✓ K 13
e
~~m 2 v~~
v ~~2~~ m

✓ K 3
e 3v
v 1 f

✓ K 12
m 1 v
v 3 m

var. defectiva? ✓ K 8
e 1 v ?
v 2 f ?

✓ K 11
m 2 v
v 2 m

✓ K 2
e 2 v
v 1 f

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1902phae.proj..978L

No 133 (cont)
Jan 29, 1903

✓ K 10
m 2 v
v 1 w

✓ K 1
m 2 v
v 1 o

✓ K 6
l 2 v
v 1 f

✓ K 19
m 2 v
v o w
v 2, o

✓ K 9
l 1 v
v 2 f

✓ K 18
m 2 v
v 1 w

✓ K 7
l 2 v
v 1 f

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1902phae.proj..978L

No 133 (cont)
Jan 31, 1903

K 5
e 2 v
v 1 f

K 23
m 1 v
v 2 m

K 16
l 1 v
v 2 m

K 14
m 2 v ?
v 1 m ?

K 14
e 1 v
v 3 f

K 22
m 1 v
v 3 v

K 19
m 2 v
v 3 m

K 25
g 1 v
v 2 h

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1902phae.proj..9781

No 133 (cont)
Jan 31, 1903

✓ K 20
m, v
v 2 0

✓ K 24
k 2 v
v 1 l

✓ K 21
m, v
v 2 0

✓ K 15
m 2 v
v 1 m

✓ A 3678

✓ x 6820

✓ A 3682

✓ A 3681

✓ x 7482
e 1 v
v 3 f

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1902phae.proj..978L

No. 133 (cont.)

Jan 31, 1903

✓ A 3677

✓ A 3672

✓ x 6792

✓ ~~A 3677~~ 9

✓ x 8597

✓ x 6844
l 2 v
v 1 m

✓ x 6854

✓ x 8584
f. v
v 2 g

✓ x 8563
l 2 v
v 1 m

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1902phae.proj..9781

No 133 (cont)

Jan 31, 1903

✓ x 7483

✓ x 7488
f 1 v
v 2 g

✓ x 8611
e 2 v
v 1 f

✓ x 8624

✓ x 9204
e 2 v
v 2 f

✓ x 8625

✓ A 1751

✓ x 9158

✓ x 8612
f 1 v
v 2 g

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1902phae.proj..978L

No 133 (cont)

Jan 31, 1903

✓ x 9205

✓ x 8618

✓ x 8619
l 3 v
v 1 f

No 133 difficult; measures unsatisfactory.

No 134 (M 31)
Feb. 2, 1903

✓ K 13
l 2 v
v 1 m

✓ K 3
m 1 v
v 2 m

✓ K 12
k 2 v
v 1 l

✓ K 8
m 1 v
v 2 m

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1902phae.proj..0781

No 134 (cont)
Feb 2, 1903

✓ K 11
k 1 v
v 2 l

✓ K 2
l 2 v
v 1 m

✓ K 10
k 2 v
v 1 l

✓ K 1
n 1 v
v 3 v

✓ K 6
m 2 v
v 1 n

✓ K 19
k 1 v
v 0 l
v 2 m

✓ K 9
l 2 v
v 1 m

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1902phae.proj..978L

No 134 (cont)
Feb. 2, 1903

K 18
l 2 v
v 0 m
v 3 m

K 7
m 2 v
v 1 m

K 5
m 1 v
v 2 m

K 23
k 2 v
v 1 l

K 16
l 1 v
v 2 m

K 14
l 2 v
v 1 m

K 4
l 2 v
v 1 m

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1902phae.proj..0781

No 134 (cont)

Feb. 2, 1903

✓ K 22
l 1 v
v 2 m

✓ K 17
l 1 v
v 2 m

✓ K 25
m 2 v
v 2 m

✓ K 20
m 2 v
v 1 m

✓ K 24
m 2 v
v 1 m

✓ K 21
m 1 v
v 3 m

✓ K 15
k 2 v
v 1 l

✓ x 8618
l 2 v
v 1 m

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1902phae.proj..978L

No 134 (cont)
Feb 2, 1903

✓ x 9205
k, v
v 2 l

✓ x 8612
g 2 v
v, 1 h

✓ x 9158
m, v
v 2 n

✓ A 1751

✓ x 8625
l, v
v 2 m

✓ x 9204
g 2 v
v 2 h

✓ x 8624
k, v
v 2 l

✓ x 8611
g, v
v 2 h

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1902phae.proj..9781

No. 134 (cont)

Feb 2, 1903

✓ x7483

✓ x7488

✓ x8563
l 2 v
v 0 w
v 3 w

✓ x8584
l 1 v
v 2 w

✓ x6854

✓ x6844
h 2 v
v 1 k

✓ x8597

✓ a3679
l 2 v
v 1 w

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1902phae.proj..978L

No 134 (cont)
Feb. 2, 1903

x 6792
l 2 v
v 1 nv

A 3672

A 3677

x 7482
l 1 v
v 2 nv

A 3681

A 3682

x 6820

A 3678

x 6872
l 1 v
v 2 q

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1902phae.proj..978L

No 135 (M 3)

Feb 3 1903

✓ K 13
l 2 v
v 2 f

✓ K 3
d 1 v
v 3 l

✓ K 12
d 2 v
v 1 l

✓ K 8
d 2 v
v 1 l

✓ K 11
d 2 v
v 2 l

✓ K 2
c 2 v
v 1 d

✓ K 10
d 1 v
v 2 l

✓ K 1
g 1 v ?
v 2 h ?

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1902phae.proj..978L

No. 135 (cont)
Feb 3, 1903

✓ K 6
d 1 v
v 2 e

✓ K 19
d 2 v
v 1 e

✓ K 9
d 2 v
v 1 e

✓ K 18
e 1 v
v 2 f

✓ K 7
d 2 v
v 1 e

✓ K 5
c 2 v
v 1 d

✓ K 23
d 1 v
v 2 e

✓ K 16
e 1 v
v 3 f

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1902phae.proj...970L

No 135 (cont)
Feb 3, 1903

K 14
d 2 v
v 1 e

K 4
d 2 v
v 1 e

K 22
d 2 v
v 1 e

K 17
e 1 v
v 3 f

K 25
d 2 v
v 1 e

K 20
e 2 v
v 1 f

K 24
d 1 v
v 2 e

K 21
d 2 v
v 1 e

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1902phae.proj..978L

No 135 (cont)
Feb 3, 1903

✓ K 15
e 1 v
v 2 f

✓ x 8624
e 1 v
v 2 f

✓ x 9204
e 2 v
v 2 f

✓ x 8625
e 1 v
v 2 f

✓ A 1751

✓ x 9158
f 2 v
v 1 g

✓ x 8612
e 2 v
v 1 f

✓ x 9205
e 2 v
v 1 f

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1902phae.proj...9781

No 135 (cont)

Feb 4, 1903

✓ x 8618
e 2 v
v 1 f

✓ a 3678

✓ x 6820
e 2 v
v 2 f

✓ a 3682

✓ a 3681

✓ x 7482
e 1 v
v 2 f

✓ a 3677

✓ a 3672

✓ x 6792
e 3 v
v 2 f

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1902phae.proj..978L

No. 135 (cont)
Feb. 4, 1903

✓ a 3679

✓ x 8597
d 2v
v 1 e

✓ x 6844
e 1 v
v 2 f

✓ x 6854
d 2 v
v 3 e

✓ x 8584
e 1 v
v 2 f

✓ x 8563
f 1 v
v 2 g

✓ x 7488
e 1 v
v 2 f

✓ x 7483
e 1 v
v 2 f

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1902phae.proj...978L

No 135 (cont)

Feb 4, 1903

✓ x 8611
e 2 v
v 1 f

✓ x 6990
e 1 v
v 2 f

✓ x 8650
f 1 v
v 2 g

✓ x 8632
e 2 v
v 1 f

✓ x 6876
d 3 v
v 1 e

✓ x 6872
d 2 v
v 1 e

✓ x 8619
e 1 v
v 2 f

✓ x 8605
e 1 v
v 2 f

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1902phae.proj..978L

No 136 (M 3)

Feb. 5 1903

✓ K 13
f 1 v
v 2 g

✓ K 3
e 2 v
v 1 f

✓ K 12
f 1 v
v 2 g

✓ K 8
f 2 v
v 1 g

✓ K 11
f 2 v
v 1 g

✓ K 2
e 1 v
v 2 f

✓ K 10
f 2 v
v 0 g
v 3 h

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1902phae.proj...978L

No 136 (cont)
Feb 5, 1903

✓ K 1
g 2 v ?
v 1 h ?

✓ K 6
f 2 v
v 1 g

✓ K 19
g 2 v
v 1 h

✓ K 9
e 2 v
v 1 f

✓ K 18
e 2 v
v 1 f

✓ K 7
e 2 v
v 0 f
v 3 g

✓ K 5
g 1 v
v 2 h

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1902phae.proj...978L

No 136 (cont)
Feb 5, 1903

✓ K 23
f 2 v
v 1 g

✓ K 16
f 2 v
v 1 g

✓ K 14
e 1 v
v 2 f

✓ K 4
e 2 v
v 1 f

✓ K 22
f 1 v
v 2 g

✓ K 17
e 3 v
v 1 f

✓ K 25
f 2 v
v 1 g

✓ K 20
g 2 v
v 1 h

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1902phae.proj..978L

No 136 (cont)
Feb 5, 1903

✓ K 24
g 1 v
v 2 h

✓ K 21
f 1 v
v 2 g

✓ K 15
f 2 v
v 1 g

✓ A 3678

✓ x 8611
f 2 v
v 1 g

✓ x 7488
e 2 v
v 2 f

✓ x 8563
f 1 v
v 2 g

✓ x 7483

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1902phae.proj...978L

No 136 (cont)
Feb 5, 1903

✓ x 8584
e / v
v 3 f

✓ x 6854

✓ x 6844
e 2 v
v / f

✓ a 3679

✓ x 8597
e / v
v 2 f

✓ x 6792
g / v ?
v 2 h ?

✓ a 3672

✓ a 3677

✓ x 7482
e / v
v 2 f

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1902phae.proj...978L

No 136 (cont)
Feb 5, 1903

✓ A 3681

✓ A 3682

✓ x 6820

✓ x 8618
e 1 v
v 2 f

✓ x 9205
f 1 v
v 2 g

✓ x 8612
e 2 v
v 1 f

✓ x 9158
f 2 v
v 0 g
v 2 h

✓ A 1751

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1902phae.proj..978L

No 136 (cont)

Feb 5, 1903

✓ x 8625
f 1 v
v 2 g

✓ x 9204

✓ x 8624
f 1 v
v 2 g

✓ x 8650
f 2 v
v 1 g

✓ x 8631
e 2 v
v 1 f

✓ x 6872
d 3 v
v 1 e

✓ x 8619
e 1 v
v 2 f

No 136 - Difficult star to measure.

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1902phae..proj...978L

No 137 (N3)
Feb 5, 1903

✓ K 13
m 1 v
v 2 n

✓ K 3
e 1 v
v 2 f

✓ K 12
m 2 v
v 1 n

✓ K 8
f 2 v
v 1 g

✓ K 11
l 2 v
v 1 m?

✓ K 2
e 1 v
v 3 f

✓ K 10
m 1 v
v 3 n

✓ K 1
m 2 v
v 1 n

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1902phae.proj..978L

No 137 (cont)
Feb 5, 1903

K 6
f 2 v
v 1 g

K 19
m 1 v
v 2 n

K 9
f 2 v
v 1 g

K 18
m 1 v
v 2 n

K 7
f 1 v
v 2 g

K 5
e 1 v
v 2 f

K 23
m 1 v
v 2 n

K 16
m 2 v
v 2 n

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1902phae.proj...9781

No. 137 (cont)
Feb 5, 1903

✓ K 14
m 1 v
v 2 n

✓ K 4
e 1 v
v 3 f

✓ K 22
m 2 v
v 0 n
v 3 o

✓ K 17
m 1 v
v 2 n

✓ K 25
m 2 v
v 1 n

✓ K 20
m 3 v
v 1 n

✓ K 24
m 2 v
v 1 n

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1902phae.proj..978L

No 137 (cont)
Feb 5, 1903

✓ K 21
m 1 v
v 2 n

✓ K 15
m 1 v
v 2 n

✓ x 8624
f 2 v
v 1 g

✓ x 9204
l 1 v
v 2 m

✓ x 8625
g 2 v
v 0 h
v 2 k

✓ A 1751

✓ x 9158
m 2 v
v 1 n

✓ x 8612
l 1 v
v 2 m

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1902phae..proj...9781

No 137 (cont)
Feb 5, 1903

✓ x 9205
h i v
v 2 m

✓ x 8618
k 2 v
v i l

✓ x 6820
l 2 v
v i m

✓ A 3682
Two poor.

✓ A 3681

✓ x 7482
h i v
v i k

✓ A 3677

✓ A 3672

✓ x 6792
m 2 v
v i n

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1902phae.proj..978L

A. 137 (cont.)

Feb. 6, 1903

✓ x 8597
m, v
v, w

✓ A 3679

✓ x 6844
m, v
v 2 w

✓ x 6854
k 2 v
v, l

✓ x 8554
l, v
v 2 m

✓ x 7483
m F, 1

✓ x 8563
l, v
v 2 m

✓ x 7488
g 2 v
v, h

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1902phae.proj...970L

8611
✓ x ~~7488~~
k 2 v
v 1 l

✓ A 3678

✓ x 6876
l 2 v
v 1 f

✓ x 6872
l 2 v
v 2 f

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1902phae.proj..978L

Spark Estimated intervals between
letters of sequence for M 3 H.D.S. recorder

February 6, 1903

X 6844

a
a a 2 a
b a 3 b
c b 3 c
d c 2 d
e d 4 e
f e 4 f
g f 2 g
h g 3 h
k h 2 k
l k 2 l
m l 3 m
n m 2 n
o n 2 o
p o 2 p

X 6872 a
a a 1 a
b a 3 b
c b 4 c
d c 3 d
e d 3 e
f e 3 f
g f 2 g
h g 2 h
k h 2 k
l k 2 l
m l 2 m
n m 2 n
o n 2 o
p o 2 p

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1902phae.proj...9781

Same continued

X6854

February 6, 1903

a

a a 2 a

b a 2 b

c b 3 c

d c 4 d

defective e d 4 e ?

f e 2 f

g f 3 g

h g 3 h

k h 2 k

l k 3 l

m l 2 m

n m 3 n

o n 2 o

not seen? p n. e.

a

X6863 a a 2 a

b a 3 b

c b 3 c

d c d 3

e d 4 e

f e 4 f

g f 2 g

h g 2 h

k h 2 k

l k 2 l

m l 2 m

n m 2 n

o n 1 o

p not seen

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1902phae.proj..978L

Scale measures of sig. for Anderson's
Var. 19, 1902

February 19, 1903

I B9371

a	6.5
b	6.8
c	7.0
d	7.3
e	7.5
f	8.0
g	8.2
h	8.7
k	9.0
l	9.2
m	9.6
n	10.1
var.	9.9

I 9069

a	7.6
b	~~7.8~~ ~~8.0~~
c	8.0
d	8.2
e	8.5
f	8.9
g	9.1
h	9.4
k	9.7
l	9.8
m	10.1
n	7.
var.	9.3

w.s

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1902phae.proj..0781

Same measures (cont)
Feb 20, 1903

I 8885

a 7.9
b 8.2
c 8.4
d 8.7
e 8.9
f 9.4
g 9.5
h 9.8
K 10.2
l 10.5
m l 3 m
n n.s ?
var 8.8

I 23503

a 7.8
b 8.1
c 8.3
d 8.5
e 8.7
f 9.1
g 9.3
h 9.5
K 9.7
l 9.9
m 10.3
n m 4 n
var n.s

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1902phae.proj...978L

Scale measures of Sequence for variables in M 3. (Scale E=+23° 539)

Feb. 24, 1903

	x 8563
a	7.5
A	7.7
c	8.0
d	8.3
e	8.5
f	8.8
g	8.9
h	9.1
k	9.3
l	9.5
m	9.7
n	9.8
o	10.0
p	10.3
	x 8611
a	7.3
A	7.5
c	7.8
d	8.0
e	8.4
f	8.6
g	8.8
h	9.0
k	9.3
l	9.5
m	9.7
n	9.9
o	10.0
p	10.2

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1902phae.proj..978L

Same (cont)

Feb 25, 1903

x 9158

a	8.0	
a	8.1	
c	8.3	
d	8.5	
e	8.8	
f	9.1	
g	9.3	
h	8.8	9.5
K	9.0	9.8
l	9.3	9.9
m	9.5	9.7
n	9.7	10.0
o	10.0	10.2
p	10.5	

x 9204

a	7.2
a	7.2
c	7.5
d	7.8
e	8.0
f	8.4
g	8.5
h	8.8
K	9.0
l	9.3
m	9.5
n	9.7
o	10.0
p	n.s ?

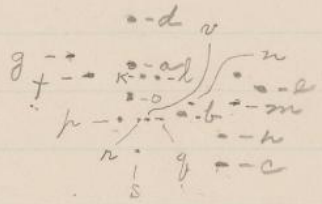
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1902phae.proj...978L

Scale measures of Var. 4h 32.0 -7° 3' (approx)
Found on A 5785. Comp. stars marked on B 25151 also
A 3028 Feb 25, 1903

B 22780

a	6.1
b	6.8
c	7.0
d	7.5
e	7.9
f	8.4
g	8.7
h	9.3
K	9.5
l	9.5
m	9.8
n	10.0
o	10.2
p	10.5
q	n.s
r	n.s
s	n.s
var.	8.8



* B 16249

a	5.7
b	6.3
c	6.5
d	7.2
e	8.0
f	8.5
g	8.7
h	9.2

* A very poor plate - images near edge - and not comparable with others.

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1902phae.proj..978L

Same meas. (cont)

Feb 25, 1903

B16249 (cont)

K	9.5
l	9.7
m	9.9
n	10.1
o	10.3
p	n.s
q	n.s
r	n.s
s	n.s
var.	F?

B24968

a	6.1
b	6.7
c	6.8
d	7.5
e	7.9
f	8.3
g	8.7
h	9.3
K	9.5
l	9.7
m	9.9
n	10.1
o	10.3
p	0 3 p
q	n.s
r	n.s
s	n.s
[illegible]	10.5

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1902phae.proj..978L

Same meas. (cont.)

Feb 25, 1903

B 12908

a	6.2
b	7.0
c	7.2
d	8.0
e	8.5
f	9.0
g	9.2
h	9.7
K	9.9
l	10.0
m	10.3
n	m 3n
o	n 20
p	o 3 p
q	n,s
r	n,s
s	n,s
var.	n,s

Estimated intervals between fainter stars of above sequence - which do not appear on plates measured.

B 25151

p 3 q
q 2 r
p 1 s.

A 3028

p 5 q
q 3 r
r 2 s

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1902phae.proj..978L

Scale measures of Sequence
for Vars. 11 12.9 11 2.9 – 54 35. (Comp stars on B 9514)

Feb 27, 1903

B 9514

a	6.0
b	6.1
c	6.4
d	6.8
e	7.1
f	7.5
g	7.8
h	8.3
k	8.7
l	8.9
m	9.1
n	9.5
var.	8.7



B 22912

a	6.0
b	6.2
c	6.5
d	6.8
e	7.0
f	7.2
g	7.5
h	8.0
k	8.6
l	8.7
m	9.0
n	9.6
var.	8.5

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1902phae.proj..978L

Same meas. (cont)

Feb 27, 1903

B 22059

a	6.1
b	6.2
c	6.4
d	6.6
e	7.1
f	7.4
g	7.6
h	8.1
k	8.5
l	8.8
m	9.0
n	9.5
var.	8.0

B 13198

a	6.2
b	6.4
c	6.7
d	7.0
e	7.3
f	7.7
g	8.0
h	8.3
k	8.7
l	8.8
m	9.1
n	9.6
var.	8.8

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1902phae.proj..978L

Scale measures of Sequence for Var. a 2c 14440 - 10 30.8 -39.3 (Comp stars on B24994)

Feb 27, 1903

B 24994

a	5.7
b	5.9
c	6.1
d	6.3
e	6.5
f	6.9
g	7.1
h	7.8
k	8.0
l	8.3
m	8.5
n	8.7
o	9.2
var.	6.0

B 10996

a	5.7
b	5.9
c	6.2
d	6.6
e	6.9
f	7.1
g	7.3
h	7.9
K	8.0
l	8.3
m	8.5
n	8.7
o	9.1
var.	6.3

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1902phae.proj..978L

Same meas. (cont)

Feb 27, 1903

B 19547

a	5.9
b	6.1
c	6.4
d	6.9
e	7.1
f	7.5
g	7.8
h	8.2
k	8.5
l	8.7
m	8.9
n	9.0
o	9.5
var.	6.7

B 15842

a	5.7
b	5.9
c	6.2
d	6.8
e	6.9
f	7.2
g	7.4
h	8.0
K	8.2
l	8.5
m	8.8
n	9.0
o	9.3
var.	6.9

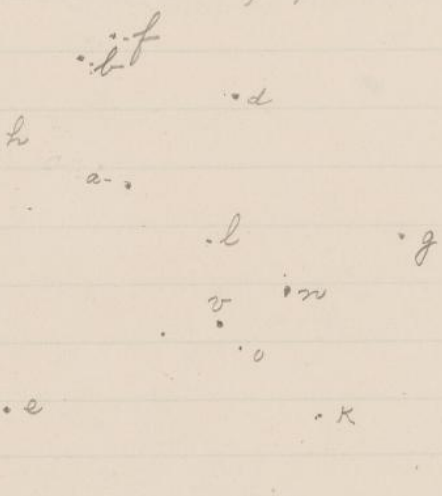
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1902phae.proj...978L

Scale measures of DM −2° 3653 13h 6.6-2° 2.1
Comp. Stars marked on I 17952

Feb 28, 1903

I 17952



a	5.2
b	5.7
c	6.0
d	6.4
e	6.8
f	7.1
g	7.3
h	7.7
k	8.0
l	8.7
m	8.9
n	9.3
o	9.6
var.	5.8

B 19835

a	5.2
b	5.5
c	6.0
d	6.4
e	6.9
f	7.4
g	7.7
h	8.5
k	8.7
l	9.3
m	9.5
n	10.0
o	10.3
var.	5.9

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1902phae.proj..978L

Same meas. (cont)

March 25 1903

Poor Plate

B16595

a	5.3
b	5.8
c	6.2
d	6.7
e	7.1
f	7.9
g	8.1
h	8.7
k	8.9
l	9.5
m	9.7
n	10.0
o	10.2
var.	5.9

B13929

a	4.9
b	5.3
c	5.7
d	6.0
e	6.3
f	6.9 ~~7.0~~
g	7.0
h	7.8
k	8.0
l	8.5
m	8.7
n	9.0
o	9.3
var.	5.5

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1902phae.proj...978

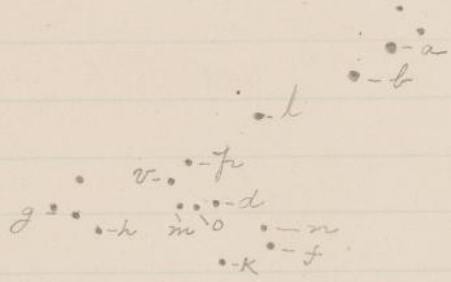
Leander McCormick Observatory

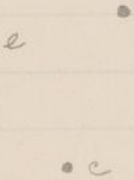
Scale meas. of Var. +46° 2966
Ra 20h 28.2 +46° 6 (Comp stars on I 29510)

March 25 1903

I 29510

a	5.8
b	6.1
c	6.3
d	6.7
e	7.0
f	7.3
g	7.5
h	7.8
K	8.1
l	8.7
m	9.0
n	9.3
o	9.5
p	9.8
var.	7.7





I 25920

a	6.5
b	6.8
c	7.0
d	7.5
e	7.7
f	8.1
g	8.3
h	8.7
K	8.9
l	9.4
m	9.7
n	9.9
o	10.1
p	10.4
var.	7.7

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1902phae.proj..978L

+46° 2966 (cont)

Mch 25, 1903

I 2416

a	6.3
b	6.5
c	6.7
d	7.2
e	7.5
f	7.9
g	8.1
h	8.5
K	8.7
l	9.4
m	9.8
n	10.0
o	n 20
p	n.s
var	8.7

I 27868

a	5.7
b	6.0
c	6.2
d	6.7
e	7.0
f	7.4
g	7.7
h	8.1
K	8.5
l	9.0
m	9.4
n	9.7
o	9.9 1/2
p	10.2
var.	6.9

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1902phae.proj...9701

Scale meas. of Sig for 21, 1902
estimated backwards - by Miss L. E.F.L Rev

Mch 26, 1903

I 25732

a 6.7
b 7.3 7
c 7.8
d 8.2
e 8.3
f 8.5
g 8.6 ~~8.3~~
h 8.9
k 9.3
l 9.5
m 9.7
n m 3 n 10.3
o n 20
p. n.s

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1902phae..proj...97H

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1902phae.proj..978L

Measures of comp. star "b" or No 138 ?
in M 3. found to be variable by Prof. Bailey.

March 5, 1903

x 6792
A 3 v
v 5 c

A 3678
A 2 v
v 3 c

x 8597
A 3 v
v 4 c

x 7488
A 3 v
v 2 c

x 7483
A 2 v
v 3 c

x 8584
a 2 v
v o A
v 4 c

A 3679
A 1 v
v 4 c

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1902phae.proj..0781

Measures of "b" Cont'd

March 5, 1903

v a 3672
A 3 v
v 2 c

v a 3677
A 3 v
v 2 c

v x 7482
A 4 v
v 3 c

v a 3681
A 3 v
v 4 n

v a 3682
A 1 v
v 5 c

v x 6820
A 3 v
v 4 c

v x 8624
A 1 v
v 3 c

v x 8618
A 1 v
v 3 c

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1902phae.proj..978L

Measures of "b" (cont)

March 5, 1903

x 9205
A 2 v
v 3 c

Ai 1751
5 4 v
v 2 a

x 8625
a 2 v
v 0 A
v 4 c

x 8612
A 2 v
v 4 c

x 6854
a 2 v
v 1 A

x 6844
A 2 v
v 3 c

x 9204
A 1 v
v 3 c

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1902phae.proj..0781

Measures of "b" (cont)

March 6, 1903

x 9158
A 3 v
v 3 c

x 8563
a 2 v
v 1 A

x 8611
A 1 v
v 3 c

K 13
A 3 v
v 2 c

K 3
a 3 v
v 0 A
v 3 c

K 12
A 2 v
v 5 c

K 8
A 2 v
v 4 c

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1902phae.proj...978L

Measures of "b" (cont)

March 6, 1903

K 11
A 2 v
v 3 c

K 2
A 2 v
v 4 c

K 10
a 2 v
v . A

K 1
A 2 v
v 4 c

K 6
A 2 v
v 5 c

K 19
A 2 v
v 5 c

K 9
A 2 v
v 4 c

K 18
A 3 v
v 2 c

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1902phae.proj..978L

Measures of "t" (cont)

March 6, 1903

K 7
A 2 v
v 3 c

K 5
A 3 v
v 3 c

K 23
A 2 v
v 4 c

K 16
A 2 v
v 5 c

K 14
A 3 v
v 4 c

K 4
A 3 v
v 4 c

K 22
A 1 v
v 5 c

K 17
A 2 v
v 5 c

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1902phae.proj..978L

Measures of "t" (cont)

March 6, 1903

K 25
A 3 v
v 4 c

K 20
A 2 v
v 4 c

K 24
a 2 v
v o A
v 6 c

K 21
A 2 v
v 5 c

K 15
A 4 v
v 3 c

x 6872
a 2 v
v o A
v 5 c

x 6863
A 2 v
v 4 c

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1902phae.proj...978L

Measures of "b" (cont)

March 6, 1903

x 6918
A 2 v
v 5 c

x 6923
A 3 v
v 4 c

x 6925
A 2 v
v 5 c

x 6980
A 3 v
v 3 c

x 6990
A 2 v
v 4 c

x 7654
A 3 v
v 4 c

x 8605
A 3 v
v 4 c

x 8619
a 3 v
v 1 A

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1902phae.proj..978L

Measures of "b" (cont)
March 6, 1903

x 8632
A 2 v
v 4 c

x 8650
A 2 v
v 4 c

x 8655
a 3 v
v 0 A
v 4 c

x 8656
a 2 v
v 1 A

x 8779
A 2 v
v 3 c

x 9166
A 2 v
v 4 c

x 8631
A 2 v
v 3 c

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1902phae.proj..978L

Measures of "h" (cont)

March 6, 1903

x 8444
A 2 v
v 3 c

x 9558
A 2 v
v 4 c

x 7489
A 3 v
v 4 c

a 1774
A 3 v
v 4 c

a 1775
A 2 v
v 4 c

a 1776
A 1 v
v 5 c

x 6828
A 3 v
v 3 c

x 6875
A 3 v
v 3 c

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1902phae.proj..978L

Measures of "b" (cont)

March 6, 1903

x 6876
A 2 v
v 4 c

x 6909
A 2 v
v 5 c

x 6837
A 3 v
v 5 c

x 6916
A 2 v
v 5 c

A 1780
A 2 v
v 4 c

A 1783
a 1 v
v 0 A
v 5 c

A 1777
A 3 v
v 5 c

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1902phae.proj...9781

Measures of No 139? in M3.
discovered by Prof. Pickering

March 6, 1903

K 13
S 3 v
v 2 a

K 3
S 3 v
v 1 a

K 12
S 3 v
v 1 a?

K 8

K 11
S 3 v
v 2 a

K 2
a 1 v
v 2 A

K 10
a 1 v
v 1 A

K 1
A 2 v
v 2 C

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1902phae.proj...978L

No. 139 (cont)
March 7, 1903

K 6
5 4 v
v 1 a

K 19
5 3 v
v 2 a

K 9
5 4 v
v 2 a

K 18
a 1 v
v 2 A

K 7
a 2 v
v 1 A

K 5
5 4 v
v 1 a?

K 23
5 4 v
v 1 a

K 14
5 3 v
v 2 a

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1902phae..proj...978L

No 139 (cont)

March 7, 1903

K 4
a 1 v
v 1 A

K 22
a 1 v
v 2 A

K 17
∂ 2 v
v 2 a

K 25
∂ 3 v
v 2 a

K 20
∂ 3 v
v 2 a

K 24
∂ 3 v
v 1 a

K 21
∂ 2 v
v 3 a

K 15
∂ 2 v
v 2 a

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1902phae.proj..978L

No. 139 (cont.)

March 7, 1903

K 16
5 3 v
v 2 a

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1902phae..proj..978L

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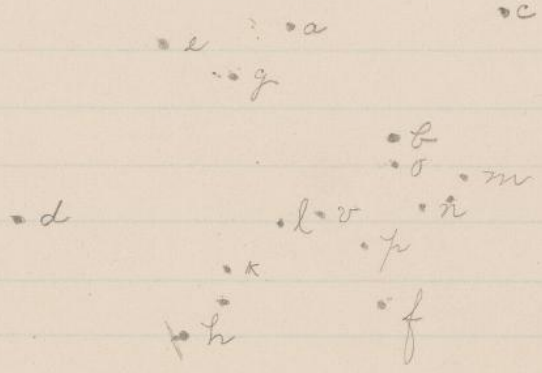
1902phae.proj..978L

Scale meas. of Sequence for 3C 970
14h 15.3 −46 57 (1875) (Found on B 23024) (Comp stars on B 25719)

March 28, 1903

B 25719

a	5.0
b	5.3
c	6.0
d	6.3
e	6.7
f	7.0
g	7.4
h	7.7
k	8.0
l	8.5
m	8.8
n	9.2
o	9.5
p	9.7
var	8.6



I 16062

a	5.4
b	5.8
c	6.5
d	6.8
e	7.0
f	9.5
g	7.9
h	8.1
k	8.3
l	8.7
m	9.0
n	9.5
o	10.0
p	10.2
v.	9.0

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1902phae.proj...978L

3 b 970 (cont)

March 31, 1903

B 15886

a	4.7
b	5.2
c	5.7
d	6.0
e	6.2
f	6.7
g	7.0
h	7.2
K	7.5
l	8.2
m	8.7
n	9.1
o	9.6
p	9.9
var	8.9

B 5310

a	5.0
b	5.5
c	6.0
d	6.3
e	6.7
f	7.2
g	7.6
h	7.9
K	8.3
l	8.7
m	9.2
n	9.5
o	9.8
p	10.0
var.	9.4

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1902phae.proj..978L

Measures of Sig. for +56° 1400

9h 36 44 +56 24.6 (Comp stars on I 21845)
(" " " ac 3195)

March 11, 1903

I 21845 - ✓

a 5.5
b 5.7
c 6.0
d 6.5
e 6.9
f 7.4
g 7.7
h 8.3
k 8.7
l 9.0
var. 6.5

7.26 c 2 v ✓ 7.46 7.78 = 7.62 16 16
7.78 v 2 d 7.98

I 25061 ✓

7.26 c 1 v 7.36 7.68 = 7.52 16 16
7.68 v 3 d 7.98

I 33277 ✓

6.84 b 2 v 6.94 6.96 = 6.95 01 01
6.96 v 3 c 7.26

I 28496 ✓

7.98 d 1 v 7.98 8.08 = 8.03 05 04
8.08 v 2 e 8.28

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1902phae.proj...978L

+56° 1400

Same meas. (cont)

March 11, 1903

I 3429 ✓

7.26 C 3 v 7.56 7.78 = 7.67 11 11

"d" is on edge and defective 7.78 v 2 d 7.98

I 8394 ✓

7.26 C 3 v 7.56 7.88 = 7.72 16 16

7.88 v 1 d 7.98

I 8423

7.26 C 2 v 7.46, 7.68 = 7.57 11 11

7.68 v 3 d 7.98

I 19758 ✓

7.26 C 3 v 7.56 7.78 = 7.67 11 11

7.78 v 2 d 7.98

I 19730 ✓

7.26 C 1 v 7.36 7.78 = 7.57 21 21

"d" defective 7.78 v 2 d 7.98

I 12648 ✓

7.26 C 1 v 7.36 7.78 = 7.57 21 21

7.78 v 2 d 7.98

I 12516 ✓

7.26 C 2 v 7.46 7.68 = 7.57 11 11

"d" defective 7.68 v 3 d 7.98

I 19542 ✓

7.26 C 2 v 7.46 7.68 = 7.57 11 11

7.68 v 3 d 7.98

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1902phae.proj..978L

+56 1400

Same meas. (cont)

March 11, 1903

I 12473
7.26 c 2 v 7.46 ✓
d off plate.

I 12305 ✓
7.26 c 2 v 7.46 7.78 = 7.62 16 16
7.78 v 2 d 7.98

I 12104 ✓
7.26 c 1 v 7.36 7.68 = 7.57 2 16 16
7.68 v 3 d ? 7.98

I 10039 ✓
7.26 c 2 v 7.46 7.88 = 7.67 21 21
7.88 v 1 d 7.98

Near edge I 10281 ✓
7.26 c 4 v 7.66
d off plate

Near edge I 8392 ✓
7.26 v 0 c 7.26
d off plate

Near edge I 8249 ✓
b off plate
7.26 v 0 c 7.26
d off plate

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1902phae.proj..978L

+56° 1400

Same meas. (cont)

March 11, 1903

Near edge I 5834 ✓

b off plate

7.26 v 1 c 7.16

d off plate

ac 3195 ✓

7.26 c 3 v 7.56, 7.78 = 7.67 · 2 2

7.78 v 2 d 7.98

ac 3354 ✓

7.26 c 3 v 7.56 7.78 = 7.67 2, 2

7.78 v 2 d 7.98

ac 3330 ✓

7.26 c 3 v 7.56, 7.68 = 7.62 6 6.

7.68 v 3 d 7.98

ac 3306 ✓

7.98 d 2 v 8.18, 7.98 = 8.08 10 10

7.98 v 3 e 8.28

ac 2385 ✓

7.26 c 4 v 7.66 7.78 = 7.72 = 7.76 06 06

7.78 v 2 d 7.98

ac 2284 ✓

7.98 d 1 v 7.99 8.08, 7.98 = 8.03 05 05

7.98 v 3 e 8.28

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+56° 1400

Same meas. (cont)

March 11, 1903

Plate poor in region of var.

ac 2329 ✓

7.26 c 4 v 7.66 d n, s

ac 1874 ✓

7.26 c 4 v 7.66 7.78 - 7.72 06 06

7.78 v 2 d 7.98

ac 1953 ✓

7.26 c 2 v 7.46 7.68 = 7.57 11 11

7.68 v 3 d 7.98

ac 2083 ✓

7.26 c 2 v 7.46 7.68 = 7.57 11 11

7.68 v 3 d 7.98

ac 2159 ✓

7.98 d 2 v 8.18, 7.98 = 8.08 10 10

7.98 v 3 v 8.28

ac 2245 ✓

7.26 c 5 v 7.76 7.88 = 7.82 06 06

" d knowledge 7.88 v 1 d 7.98

ac 1412 ✓

Too poor.

ac 1413 ✓

Too poor

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+56° 1400

Same meas (cont'd)

March 11, 1903

AC 1438 ✓

7.26 C 4 v 7.66 7.88 = 7.77 18 18

7.88 v 1 d 7.98

Near edge AC 1787 ✓

7.98 d 1 v 8.08 7.98 = 8.03 05 05

7.98 v 3 e 8.28

Near edge AC 1085 ✓

Poor in begin of rev. 7.98 d 2 v 8.08 7.98 = 8.08 10 10

7.98 v 3 e 8.28

AC 1218 ✓

7.26 C 3 v 7.56 7.78 = 7.72 16 16

7.78 v 1 d 7.98

Near Edge AC 1334 ✓

7.26 C 3 v 7.56 7.78 = 7.67 11 11

7.78 v 2 d 7.98

Near Edge AC 1370 ✓

7.26 C 4 v 7.66, 7.88 = 7.77 11 11

7.88 v 1 d 7.98

Near edge AC 1386 ✓

7.26 C 5 v 7.76, 7.88 = 7.82 06 06

7.88 v 1 d 7.98

AC 765 ✓

7.26 C 3 v 7.56 7.78 = 7.67 11 11

7.78 v 2 d 7.98

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1902phae.proj..978L

+56° 1400

Same meas. (cont)

March 11, 1903

Near edge AC 448

7.26 c 5 v 7.76

d defective

Near edge AC 554

7.26 7.88 c 3 v 7.56 7.68 = 7.62 06 06

7.68 v 3 d 7.98

Near edge AC 608

7.26 c 4 v 7.66 7.88 = 7.77 11 11

7.88 v 1 d 7.98

Near edge AC 645

7.26 c 3 v 7.56 7.78 = 7.67 11 11

7.78 v 2 d 7.98

AC 3047

7.26 c 3 v 7.56 7.68 = 7.62 06 06

7.68 v 3 d 7.98

Near edge AC 1173

7.26 c 3 v 7.56 7.78 = 7.67 11 11

7.78 v 2 d ? 7.98

Near edge AC 3165

7.26 c 3 v 7.56 7.68 = 7.62 06 06

7.68 v 3 d 7.98

AC 248

7.26 c 7 v 7.98 7.88 = 7.93 05 05

7.88 v 2 d 7.98

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1902phae.proj..978L

+56° 1400

Same meas. (cont)

March 11, 1903

ac 2446 ✓

7.26 c 2 v 7.46 7.68 7.57 ii ii

7.68 v 3 d 7.98

ac 2456 ✓

7.26 c 3 v 7.56 7.78 = 7.67 ii ii

7.78 v 2 d 7.98

ac 2524 ✓

7.98 d 1 v 8.08 7.88 7.78 - 7.83 9 d 5 d 5

7.78 v 5 v 8.28

ac 2680 ✓

7.26 c 7 v 7.96 7.88 = 7.92 04 04

7.88 v 1 d 7.98

I 17624 ✓

7.26 c 2 v 7.46 7.68 = 7.57 ii ii

7.68 v 3 d 7.98

I 17640 ✓

7.26 c 3 v 7.56 7.78 = 7.67 ii ii

7.78 v 2 d 7.98

Near edge I 17745

7.26 c 5 v ? 7.76

d off plate.

Near edge I 19496 ✓

b off plate

7.26 v o c 7.26

d off plate

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1902phae.proj..978L

+56 1400

Same meas. (cont)

March 11, 1903

I 17772

Near edge 7.26 C 3 v 7.56 7.78 = 7.67 ii ii

7.78 v 2 d 7.98

On edge of film I 20191 ✓

fainter than "i"

I 20010 ✓

7.26 C 3 v 7.66 7.78 = 7.67 ii ii

7.78 v 2 d 7.98

Near edge I 21887 ✓

b off plate

7.26 C 1 v 7.36

d off plate.

I 22049 ✓

7.26 C 2 v 7.46 7.68 = 7.57 ii ii

7.68 v 3 d 7.98

I 22413 ✓

7.26 C 2 v 7.46 7.78 = 7.62 16 16

"7.78 v 2 d 7.98

I 22724 ✓

7.26 C 2 v 7.46 7.78 = 7.62 16 16

7.78 v 2 d 7.98

I 23576 ✓

Too poor

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1902phae.proj..978L

+56° 1400

Same meas. (cont)

March 11, 1903

I 25149 ✓

7.26 C 3 v 7.56 7.78 = 7.67 " "

7.78 v 2 d 7.98

Near edge I 24242 ✓

b off plate

7.26 v 0 c 7.26

Near edge I 24245 ✓

7.26 C 3 v 7.56 7.78 = 7.67 " "

7.78 v 2 d 7.98

Near edge I 25120 ✓

7.26 C 3 v 7.56 7.78 = 7.67 " "

7.78 v 2 d 7.98

I 25213 Sp. ✓

7.26 C 3 v 7.56 7.78 = 7.67 " "

7.78 v 2 d 7.98

I 26439 ✓

faintest than "c"

Too near edge

Near edge I 26438 ✓

7.26 C 3 v 7.56

d off plate.

Near edge I 26890 ✓

7.26 C 3 v 7.56 7.78 = 7.67 " "

7.78 v 2 d 7.98

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1902phae.proj..978L

+56 1400

Same meas. (cont)

March 11, 1903

Near edge I 26940 -

7.26 c 3 v 7.56

d off plate

I 28134 -

7.26 c 3 v 7.56 7.78 = 7.67 11 11

7.78 v 2 d 7.98

I 28524 -

6.84 b 3 v 7.14 7.26 7.48 = 7.29 15 3 19.

7.26 v 0 c 7.26

7.48 v 5 d 7.98

Near edge B 1940 -

b off plate

7.26 v 0 c 7.26 7.78 = 7.52 26 26

7.78 v 2 d 7.98

B 1963 -

7.26 c 1 v 7.36 7.78 = 7.57 21 21

7.78 v 2 d 7.98

I 8375 -

7.26 c 2 v 7.46 7.88 = 7.67 21 21

7.88 v 1 d 7.98

Near edge I 14881 -

b off plate

7.26 v 0 c 7.26 7.78 7.52 26 26

7.78 v 2 d 7.98

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1902phae.proj..9781

+56° 1400

Same mead (cont)

March 11, 1903

Nearedge I 15410 ✓
7.26 C 2 v 7.46
d off plate

I 16652 ✓
7.26 C 4 v 7.66 7.68 = 7.67 01 01
7.68 v 3 d 7.98

I 16714 ✓
7.26 C 3 v 7.56 7.78 = 7.67 = 11 11
7.78 v 2 d 7.98

I 16931 ✓
7.26 C 6 v 7.86 7.88 = 7.87 01 01
7.88 v 1 d 7.98

I 17268 Sp ✓
7.26 C 3 v 7.56 7.78 = 7.67 = 11 11
7.78 v 2 d 7.98

ac 2408 ✓
7.26 C 4 v 7.66 7.88 = 7.77 = 11 11
7.88 v 1 d 7.98

ac 2461 ✓
7.26 C 5 v 7.76 7.78 = 7.77 01 01
7.78 v 2 d 7.98
E nearedge

ac 2523 ✓
7.26 C 3 v 7.56 7.58 = 7.57 01 01
7.58 v 4 d 7.98
E nearedge

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1902phae.proj..978L

+56 1400

Same meas. (cont)

March 11, 1903

Hearedge AC 2579 ✓

7.26 C 2v 7.46 7.58 = 7.52 06 06

7.58 v 4d 7.98

AC 2983 ✓

7.26 C 3v 7.56 7.88 = 7.72 16 16

7.88 v 1d 7.98

Hearedge AC 3063 ✓

7.98 d 1v 8.08 7.88 = 7.98 10 10

7.88 v 4e 8.28

Hearedge AC 3121 ✓

7.26 C 3v 7.56 7.88 = 7.72 16, 16

7.88 v 1d 7.98

Hearedge. AC 3186 ✓

7.26 C 3v 7.56 7.78 = 7.67 11 11

7.78 v 2d 7.98

Hearedge. AC 3246 ✓

7.26 C 3v 7.56 7.78 = 7.67 11 11

7.78 v 2d 7.98

AC 3316 ✓

7.26 C 5v 7.76 7.78 = 7.77 01 01

7.78 v 2d 7.98

Hearedge. AC 3259 ✓

7.26 C 3v 7.56 7.78 = 7.67 11 11

7.78 v 2d 7.98

gg

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+56° 1400

Same meas. (cont)

March 11, 1903

I 3325 ✓

7.26 c 1 v 7.46 7.68 = 7.57 3 2 16 16

7.68 v 3 d 7.98

I 782 ✓

6.84 b 2 v 7.04 7.16 = 7.10 06 06

7.16 v 1 c 7.26

Near edge ac 877 ✓

7.26 c 4 v 7.66 7.88 = 7.77 11 11

7.88 v 1 d 7.98

ac 277 ✓

7.26 c 3 v 7.56 7.78 = 7.67 11 11

7.78 v 2 d 7.98

ac 3293 ✓

7.26 c 3 v 7.56 7.78 = 7.67 11 11

7.78 v 2 d 7.98

ac 3295 ✓

7.26 c 4 v 7.66 7.78 = 7.72 06 06

7.78 v 2 c 7.98

ac 812 ✓

7.98 d 2 v 8.18 7.88 = 8.03 15 15

7.88 v 4 3 8.28

✓

ac 1875

7.26 c 4 v 7.66 7.78 = 7.72 06 06

7.78 v 2 d 7.98

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Same meas. (cont)

March 11, 1903

AC 2084

7.26 c 3 v 7.56 7.88 = 7.72 16, 16

7.88 v 1 d 7.98

AC 2120

7.26 c 2 v 7.46 7.68 = 7.57 11 11

7.68 v 3 d 7.98

AC 2138

7.26 c 3 v 7.66 7.88 = 7.72 16 16

7.88 v 1 d 7.98

AC 258

7.26 c 3 v 7.56 7.78 = 7.67 11 11

7.78 v 2 d 7.98

Alnadqa. I 22266

7.26 c 2 v 7.46 7.68 = 7.57 11 11

7.68 v 3 d 7.98

AC 2128

7.98 d 1 v 8.08 7.88 = 7.98 10 10

7.88 v 4 e 8.28

AC 2190

7.26 c 3 v 7.56 7.78 = 7.67 11 11

7.78 v 2 d 7.98

AC 2215

7.26 c 3 v 7.56 7.78 = 7.67 11 11

7.78 v 2 d 7.98

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Same meas. (cont)

March 11, 1903

ac 2297 -

7.26 C 4 v 7.66 7.78 7.72 x x 06 06

7.78 v 2 d 7.98

ac 2341 -

7.26 C 4 v 7.66, 7.88 = 7.77 " "

7.88 v 1 d 7.98

ac 2388 -

7.26 C 2 v 7.46 7.68 = 7.57 " "

7.68 v 3 d 7.98

ac 2394 -

7.26 C 3 v 7.56 7.78 = 7.67 " "

7.78 v 2 d 7.98

ac 581

7.26 C 3 v 7.56 7.88 = 7.72 16 16

7.88 v 1 d 7.98

ac 592

7.26 C 4 v 7.66 7.88 = 7.77 " "

7.88 v 1 d 7.98

ac 626 -

7.26 C 2 v 7.46 7.68 = 7.57 " "

7.68 v 3 d 7.98

ac 741

7.26 C 3 v 7.56 7.78 = 7.67 " "

7.78 v 2 d 7.98

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+56° 1400

Same meas. (cont)

March 11, 1903

ac 762

7.26 C 3 v 7.56 7.88 = 7.72 16 16

7.88 v 1 d 7.98

ac 819

7.26 C 3 v 7.56 7.88 = 7.72 16 16

7.88 v 1 d 7.98

ac 901

7.26 C 3 v 7.56 7.88 = 7.72 16 16

7.88 v 1 d 7.98

ac 1087

7.26 C 3 v 7.56 7.78 = 7.67 11 11

7.78 v 2 d 7.98

ac 1228

7.26 C 2 v 7.46 7.78 = 7.62 16 16

7.78 v 2 d 7.98

ac 1403

Too poor.

ac 1465

7.26 C 3 v 7.56, 7.68 = 7.62 X N 06 06

7.68 v 3 d 7.98

ac 1481 Dso.

7.26 C 4 v 7.66, 7.88 = 7.77 11 11

7.88 v 1 d 7.98

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Same meas. (cont)

March 11, 1903

ac 1493 ✓

7.26 C 3 v 7.56 7.78 - 7.67 " "

7.78 v 2 d 7.98

ac 1529 ✓

7.26 C 3 v 7.56 7.78 - 7.67 " "

7.78 v 2 d 7.98

ac 1980 ✓

7.26 C 2 v 7.46 7.68 - 7.57 " "

7.68 v 3 d 7.98

ac 1981 ✓

7.26 C 3 v 7.56 7.78 - 7.67 " "

7.78 v 2 d 7.98

ac 2088 ✓

7.26 C 4 v 7.66 7.88 - 7.77 " "

7.88 v 1 d 7.98

ac 3016 ✓

7.26 C 3 v 7.56 7.78 - 7.67 " "

7.78 v 2 d 7.98

ac 2972 ✓

Too poor.

ac 2944 ✓

7.26 C 3 v 7.56 7.78 - 7.67 " "

7.78 v 2 d 7.98

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+56° 1400

Same meas. cont

March 11, 1903

ac 2573

7.26 C 2v 7.46 7.68 7.57 11 11
7.68 v 3d 7.98

ac 2454

7.26 C 3v 7.56 7.98 7.68 = 7.74 18 24 6.
7.98 v 0d 7.98
7.68 v 6e 8.28

ac 2429

7.26 c 4v 7.66 7.88 7.77 11 11
7.88 v 1d 7.98

ac 2296

7.26 C 3v 7.56 7.68 = 7.62 06, 06
7.68 v 3d 7.98

ac 2410

7.26 c 2v 7.46 7.88 7.67 21 21
7.88 v 1d 7.98

ac 2206

7.26 C 3v 7.56 7.78 = 7.67 11 11
7.78 v 2d 7.98

ac 3038

7.26 C 5v 7.78 7.88 = 7.82 05 06
7.88 v 1d 7.98

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Same meas. (cont)

March 11, 1903

AC 3141

7.26 C 3 v 7.56 7.88 = 7.72 16,16

7.88 v 1 d 7.98

AC 3257

7.98 d 1 v e 8.08 7.88 = 7.98 10 10

7.88 v 4 X 8.28

AC 129

7.26 C 3 v 7.56 7.78 = 7.67 11 11

7.78 v 2 d 7.98

Ab 100

7.26 C 4 v 7.66 7.88 = 7.77 11 11

7.88 v 1 d 7.98

AC 171

7.26 C 4 v 7.66 7.78 = 7.72 06 06

7.78 v 2 d 7.98

AC 206

7.26 C 4 v 7.66 7.78 = 7.72 06 06

7.78 v 2 d 7.98

AC 184

7.26 C 4 v 7.66 7.88 = 7.77 11 11

7.88 v 1 d 7.98

AC 224

7.98 d 1 v 8.08 7.98 = 8.03 05 05

7.98 v 3 e 8.28

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+56° 1400

Same meas. (cont)

March 12, 1903

ac 288

7.26 c 3 v 7.56 7.78 = 7.67 11 11

7.78 v 2 d 7.98

ac 572

7.26 c 5 v 7.76 7.88 = 7.82 06 06

7.88 v 1 d 7.98

ac 635

7.26 c 4 v 7.66 7.78 = 7.72 06 06

7.78 v 2 d 7.98

ac 642

7.26 c 3 v 7.56 7.88 = 7.72 16 16

7.88 v 1 d 7.98

ac 647 Iso.

7.26 c 4 v 7.66 7.78 = 7.72 06 06

7.78 v 2 d 7.98

ac 653

7.26 c 4 v 7.66 7.78 = 7.72 06 06

7.78 v 2 d 7.98

ac 659

7.26 c 2 v 7.46

d ns

ac 1049

7.26 c 2 v 7.46 7.88 = 7.67 21 21

7.88 v 1 d 7.98

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Same meas. (cont)

March 12, 1903

ac 1158 ✓

7.26 c 3 v 7.56 7.78 = 7.67 11 11

7.78 v 2 d 7.98

ac 1234 ✓

7.26 c 2 v 7.46 7.68 = 7.57 11 11

7.68 v 3 d 7.98

ac 1159 ✓

7.26 c 3 v 7.56 7.68 = 7.62 06 06

7.68 v 3 d 7.98

ac 2528 ✓

7.26 c 3 v 7.56 7.68 = 7.62 06 06

7.68 v 3 d 7.98

ac 2540 ✓

7.26 c 3 v 7.56 7.88 = 7.72 16, 16

7.88 v 1 d 7.98

ac 1898 ✓

7.26 c 3 v 7.56 7.78 = 7.67 11 11

7.78 v 2 d 7.98

ac 500 ✓

7.26 c 4 v 7.66 7.68 = 7.67 01 01

7.68 v 3 d 7.98

ac 1096 ✓

7.26 c 5 v 7.76 7.68 = 7.72 04 04

7.68 v 3 d 7.98

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Same meas. (cont)

March 12, 1903

ac 1503 ✓

7.26 C 6 v 7.86 7.78 = 7.82 04 04

7.78 v 2 d 7.98

ac 1352 ✓

7.26 C 5 v 7.76 7.88 = 7.82 06 06

7.88 v 1 d 7.98

ac 293 ✓

7.98 d 1 v 8.08 ~~8.68~~ 7 ~~8.88~~ 7 20 20

8.68 v 6 e 8.28

ac 99 ✓

7.26 C 3 v 7.56 7.78 = 7.67 11 11

7.78 v 2 d 7.98

Near edge ac 3247 ✓

7.26 C 10 v ? 8.26 7.78 = 8.02 24 24

7.78 v 2 d 7.98

ac 3258 ✓

7.26 C 3 v 7.56 7.78 = 7.67 11 11

7.78 v 2 d 7.98

On the edge ac 3280 ✓

7.26 C 3 v 7.56 7.88 = 7.72 16 16

7.88 v 1 d 7.98

Near edge ac 3203 ✓

8.06 7.78 = 7.92 14 14

7.26 C 8 v 7.86 ~~7.78~~ ~~7.82~~ ~~04~~ 04

7.78 v 2 d 7.98

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Same meas. (cont.)

March 12, 1903

Near edge AC 3123

7.26 C 4 v 7.66 7.98 = 7.82 16 16

7.98 v 0 d 7.98

e lim near edge

Near Edge AC 2870

7.26 c 4 v 7.66 7.88 = 7.77 11 11

7.88 v 1 d 7.98

Near edge AC 2628

7.26 C 7 v 7.96 7.78 = 7.87 09 09

7.78 v 2 d 7.98

Near edge AC 2570

7.26 c 6 v 7.86 7.68 = 7.77 09 09

7.68 v 3 d 7.98

AC 2563

7.26 C 6 v 7.86 7.88 = 7.87 01 01

7.88 v 1 d 7.98

Near edge AC 2536

7.26 C 6 v 7.86 7.68 = 7.77 09 09

7.68 v 3 d 7.98

AC 2525

7.26 c 6 v 7.86 7.68 = 7.77 09 09

7.68 v 3 d 7.98

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Same meas. (cont)

March 12, 1903

ac 2421 ✓

7.26 c 5 v 7.76 7.68 7.72 04, 04

7.68 v 3 d 7.98

Near edge ac 2412 ✓

7.26 c 10 v ? 8.26 7.98 8.12 14, 14.

7.98 v 0 d 7.98

e n.s

ac 2319 see #2319 p. 192.

7.26 c 4 v 7.66 7.78 = 7.72 06 06

7.78 v 2 d 7.98

Near edge ac 3294 ✓

7.26 c 3 v 7.56 7.68 = 7.62 06 06

7.68 v 3 d 7.98

Near edge ac 2313 ✓

7.26 c 4 v 7.66 7.78 = 7.72 06 06

7.78 v 2 d 7.98

Near edge ac 2247 ✓

7.26 c 7 v 7.96 7.88 = 7.92 04 04

7.88 v 1 d 7.98

✓

Near edge ac 2168

7.26 c 6 v 7.86 7.78 = 7.82 04 04

7.88 v 2 d 7.98

190

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Same meas: (cont)

March 12, 1923

Near edge AC 2035 ✓

7.26 C 7 v 7.96 7.88 = 7.92 04 04

7.88 v 1 d 7.98

Near Edge AC 2020 ✓

7.26 C 3 v 7.56 7.58 = 7.57 01 01

7.58 v 4 d 7.98

Near edge AC 1915 ✓

7.26 C 4 v 7.~~4~~66 7.48 = 7.57 X X 09 09

7.~~4~~38 v 5 d 7.98

Near edge AC 1808 ✓

7.26 C 5 v 7.~~7~~8 7.68 7.~~7~~8 0~~3~~ 0~~5~~

6 2 4 4

7.68 v 3 d 7.98

Near edge AC 1467 ✓

7.26 C 5 v 7.76 7.78 = 7.77 01 01

7.78 v 2 d 7.98

AC 1407 ✓

7.26 C 10 v ? 8.26 7.98 7.78 = 8.01 25 03 23

7.98 v 0 d 7.98

7.78 v 5 v 8.28

AC 1241 ✓

7.26 C 10 v ? 8.26 7.78 = 8.02 24, 24

7.78 v 2 d 7.98

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Same meas. (cont)

March 12, 1903

Heardge ac 813 ✓

7.26 c 3 v 7.57 7.68 = 7.62 06 06

7.68 v 3 d 7.98

Heardge ac 583 ✓

7.26 c 4 v 7.66 7.48 - 7.67 09 09

7.48 v 5 d 7.98

Heardge ac 289 ✓

7.26 c 9 v 8.16 7.88 - 8.02 14 14

7.88 v 1 d 7.98

ac 3357 ✓

7.26 c 6 v 7.86 7.88 - 7.87 01 01

7.88 v 1 d 7.98

ac 1794 ✓

7.26 c 6 v 7.86 7.68 = 7.77 09 09

7.68 v 3 d 7.98

ac 3308 ✓

7.26 c 4 v 7.66 7.68 = 7.67 01 01

7.68 v 3 d 7.98

I 28721 ✓

7.26 c 3 v 7.06 7.68 = 7.62 06 06

7.68 v 3 d 7.98

↓

I 25026 Sp.

Does not cover region

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Same meas. (cont)

March 13, 1903

v I 8423 ~~21845~~

a	5.0
b	5.3
c	5.7
d	6.5
e	6.8
f	7.2
g	7.5
h	7.9
k	8.2
l	8.5
var	6.2

I 28496

a	5.0
b	5.3
c	5.8
d	6.5
e	6.8
f	7.4
g	7.7
h	8.2
k	8.7
l	9.0
var	6.5

Near edge I 15246

7.26 C 2 v 7.46 7.38 : 7.42 06 06

7.38 v 6 d 7.98

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Same meas. (cont)

March 13, 1903

I 17624

On edge image large → a 5.7
b 6.0
c 6.5
d 7.4
e 7.6
f 8.0
g 8.3
h 8.8
k 9.0
l 9.3
var. 7.0

I 14431 Sp.

7.26 c 9 v 8.16 7.88 = 8.02 14 14
7.88 v 1 d 7.98

I 6407

7.26 c 4 v 7.66 7.48 = 7.57 09 09
7.48 v 5 d 7.98

I 20665

7.26 c 5 v 7.76 7.68 7.72 04 04
7.68 v 3 d 7.98

Class 6: I 5773

7th ter. of var.

I 5750

6.84 b 4 v & 7.24 7.26 7.48 = 7.33 09 07 15
7.26 v 0 c 7.26
7.48 v 5 d 7.98

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Same meas. (cont)

March 13, 1903

I 5668 ✓

6.84 b 3 v 7.14 7.16 = 7.15 01 01

7.16 v 1 c 7.26

I 3360* ✓

Does not cover reg.

Near edge I 783 ✓

b off plate

7.26 v 2 c 7.46

d off plate

I 600 – ✓

7.26 c 3 v 7.56 7.48 = 7.52 04 04 ✓

7.48 v 5 d 7.98

I 173 ✓

Too poor

I 7619 ✓

7.26 c 3 v 7.56 7.58 = 7.57 01 01

7.58 v 4 d 7.98

AC 196 ✓

Too near edge

AC 234 ✓

7.26 c 16 v 1 7.86 7.78 = 7.82 04 04

7.78 v 12 d 1 7.98

7.26 c 28 v 2 8.06 7.88 = 7.97 09 09

7.88 v 2 1 d 2 7.98

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Same meas. (cont)

March 13, 1903

AC 234 (cont)

7.98 d 3 1 v 3 8.08 7.98 = 8.03 05 05

7.98 v 3 3 e 3 8.28

7.98 d 4 2 v 4 8.08 7.88 = 8.03 15 15

7.88 v 4 4 e 4 8.28

7.26 c 5 8 v 5 8.06 7.78 = 7.92 14 14

7.78 v 5 2 d 5 7.98

7.26 c 6 8 v 6 8.06 7.68 = 7.87 19 19

7.68 v 6 3 d 6 7.98

7.26 c 7 8 v 7 8.06 7.78 = 7.92 14 14

7.78 v 7 2 d 7 7.98

7.26 c 8 4 v 8 7.66 7.58 = 7.62 04 04

7.58 v 8 4 d 8 7.98

7.26 c 9 8 v 9 8.08 7.78 = 7.92 14 14

7.78 v 9 2 d 9 7.98

7.26 c 10 8 v 10 8.08 7.88 = 7.98 09 09

7.88 v 10 1 d 10 7.98

7.98 d 11 1 v 11 8.08 7.98 = 8.03 05 05

7.98 v 11 3 e 11 8.28

7.98 d 12 2 v 12 8.18 8.08 = 8.13 05 05

8.08 v 12 2 e 12 8.28

AC 706

7.26 c 1 5 v 1 7.76

d 1 n S

7.26 c 2 8 v 2 ~~7.88~~ 8.08 7.68 = 7.88 20 20

7.68 v 2 3 d 2 7.98

7.98 d 3 1 v 3 8.08 7.98 = 8.03 05 05 ~~04~~ ~~04~~

7.98 v 3 3 e 3 8.28

7.26 c 4 9 v 4 8.16 7.88 = 8.02 14 14

7.88 v 4 1 d 4 7.98

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Same meas. (cont)

March 13, 1903

AC 706 (cont)

7.26 C 5 8 v 5 8.06 7.78 = 7.92 14 14
7.78 v 5 2 d 5 7.98
7.26 C 6 7 v 6 7.96 7.68 = 7.82 14 14
7.68 v 6 3 d 6 7.98
7.26 C 7 6 v 7 7.86 7.58 = 7.72 14 14
7.58 v 7 4 d 7 7.98
7.26 C 8 7 v 8 7.96 7.68 = 7.82 14 14
7.68 v 8 3 d 8 7.98
7.26 C 9 8 v 9 8.06 7.78 = 7.92 14 14
7.78 v 9 2 d 9 7.98
7.26 C 10 8 v 10 8.06 7.78 = 7.92 14 14
7.78 v 10 2 d 10 7.98
7.98 d 11 1 v 11 8.08 7.88 = 7.98 10 10
7.88 v 11 4 e 11 8.28
7.98 d 12 1 v 12 8.08 7.88 = 7.98 10 10
7.88 v 12 4 e 12 8.28
7.26 C 13 9 v 13 8.16 7.98 = 8.07 09 09
7.98 v 13 0 d 13 7.98
7.26 C 14 5 v 14 7.76 7.58 = 7.67 09 09
7.58 v 14 4 d 14 7.98
7.26 C 15 4 v 15 7.66 7.58 7.62 = 04 04
7.58 v 15 4 d 15 7.98
7.26 C 16 6 v 16 7.88 7.68 = 7.78 10 10
7.68 v 16 3 d 16 7.98
7.26 C 17 6 v 17 7.86 7.68 = 7.77 09 09
7.68 v 17 3 d 17 7.98
7.26 C 18 9 v 18 8.16 7.88 = 8.02 14 14
7.88 v 18 1 d 18 7.98
7.98 d 19 1 v 19 8.08 ~~8.08~~ 7.98 8.03 05 05
~~8.08~~ 7.98 v 19 3 e 19 8.28

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+56" 1400

Same mias. (cont)

March 13, 1903

ac 706 (cont)

7.26 c 20 q v 20 ~~7.36~~ 8.16 7.88 = 8.02 14 14

7.88 v 20 1 d 20 7.98

7.26 c 21 q v 21 8.16 7.88 = 8.02 14 14

7.88 v 21 1 d 21 7.98

7.26 c 22 q v 22 8.16 7.88 = 8.02 14 14

7.88 v 22 1 d 22 7.98

7.26 c 23 8 v 23 8.06 7.88 = 7.97 09 09

7.88 v 23 1 d 23 7.98

On edge of Pl. ac 21 ~~22~~ 319

7.26 c 15 v 1 7.76 7.88 = 7.82 ~~04~~ 6 04 6

7.88 v 1 1 d 1 7.98

7.26 c 21 8 v 2 8.06 7.98 7.98 = 8.01 05 03 03

7.98 v 2 0 d 2 7.98

"e" on edge of Pl. 7.98 v 2 3 e 2 8.28

7.26 c 3 8 v 3 8.06 7.88 = 7.97 09 09

7.88 v 3 1 d 3 7.98

7.26 c 4 6 v 4 7.88 7.68 = 7.78 10 10

7.68 v 4 3 d 4 7.98

7.26 c 5 6 v 5 7.88 7.58 = 7.73 15 15

7.58 v 5 4 d 5 7.98

7.26 c 6 5 v 6 7.76 7.58 = 7.67 09 09

7.58 v 6 4 d 6 7.98

7.26 c 7 6 v 7 7.86 7.58 = 7.72 14 14

7.58 v 7 4 d 7 7.98

7.26 c 8 8 v 8 8.06 7.78 7.92 14 14

7.78 v 8 2 d 8 7.98

7.26 c 9 9 v 9 8.16 7.98 = 8.07 09 09

7.98 v 9 0 d 9 7.98

7.26 c 10 9 v 10 ~~8.16~~ 8.16 7.88 = ~~7.98 10 10~~ 8.02 14 14

7.88 v 10 1 d 10 7.98

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Same meas. (cont)

March 13, 1903

a 1329 - ✓

7.26 c 3v 7.56 7.68 = 7.62 06 06

7.68 v 3d 7.98

a 1598 - ✓

7.26 c 3v 7.56

diff plate.

a 466 -

726 c 3v 7.56 ✓

diff plate.

ac 707 ✓

7.26 c 4v 7.66 7.68 - 7.67 01 01

7.68 v 3d 7.98

ac 707 has a number of images but on examination, there seems to be no variation. So have only estimated the first one.

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Estimates of brightness of Cepheids
Algol-4, 1903

March 20, 1903

I 30197
12.41 K ~~2~~ 1 v 12.51 12.43 - 12.47 04 04
12.43 v 2 ~~1~~ l 12.63

I 30191
9.97 b 1 v 10.07 9.92 - ~~9.99~~ 10.00 07 ~~08~~ 08 ~~07~~
9.92 v 4 c 10.32

I 30188
9.97 b 2 v 10.17 10.22 - 10.20. 03 02
10.22 v 1 c 10.32

I 30205
~~a 5 v~~ 9.97 b 1 v 10.07 9.92 - 10.00 07 08
~~v 1 b~~ 9.92 v 4 c 10.32

I 30206
9.97 b 2 v 10.17 10.02 - 10.10 07 08
10.02 v 3 c 10.32

I 30207
9.97 b 1 v 10.07 9.92 - 10.00 07 08
9.92 v 4 c 10.32

I 30202
10.32 c 2 v 10.52 10.24 - 10.38 14 14
10.24 v 3 d 10.54

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1902phae.proj..978L

Same (cont)

March 20, 1903

I 30204

9.97 b 1 v 10.07 10.12 = 10.10 03 02

10.12 v 2 c 10.32

I 30201

10.32 c 2 v 10.52 10.24 = 10.38 14 14 c 3 v 10.62 10.34 10.48

10.24 v 3 d 10.54 v 2 d

I 30198

11.73 h g 2 v 11.93 12.11 = 12.02 09 09

12.11 v 3 L K 12.41

I 30199

a brighter star substituted for "f"

11.21 f 3 v 11.51 11.23 = 11.37 14 14

11.23 v 2 g 11.43

I 30203

9.97 b 3 v 10.27 10.12 = 10.20 07 08

10.12 v 2 c 10.32

I 30200

10.76 e 2 v 10.96 10.91 = 10.94 02 03

10.91 v 3 f 11.21

I 30196

11.73 h 3 v 12.03 12.01 = 12.02 01 01

12.01 v 4 K 12.41

C 14270

9.97 b 1 v 10.07 10.12 = 10.10 03 02

10.12 v 2 c 10.32

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Saine (cont'd) 4 1903

March 20, 1903

I 30195

10.76 e 2 v 10.96 10.81 = 10.88 08 07

10.81 v 4 f 11.21

I 30194

10.54 d 2 v 10.84 10.46 = 10.60 14 14

10.46 v 3 e 10.76

C 14260

11.73 h 1 v 11.83 11.61 = 11.72 11 11

11.61 v 8 K 12 41

C 14259

11.43 g 3 v 11.73 11.43 = 11.58 15 15

11.43 v 3 h 11.73

C 14262

10.76 e 2 v 10.96 10.81 = 10.88 08 07

10.81 v 4 f 11.21

C 14261

11.21 f 2 v 11.43 11.03 = 11.22 19 19

11.03 v 4 g 11.43

C 14258

10.54 d 3 v 10.84 10.66 = 10.75 09 09

10.66 v 1 e 10.76

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1902phae.proj...978L

Sasaki 1903 (cont)

March 20, 1903

C 14263

10.32 c 3 v 10.62 10.34 = 10.48 14 14

10.34 v 2 d 10.54

C

~~I~~ 14264

9.97 b 3 v 10.27 10.12 = 10.20 07 08

10.12 v 2 c 10.32.

C 14265

9.97 b 2 v 10.17 10.02 = 10.10 07 08

10.02 v 3 c 10.32

C 14258

10.76 c 2 v 10.96 11.11 = 11.03 08 07

11.11 v 1 f 11.21 07 08

C 14266

9.97 b 3 v 10.27 10.02 = 10.14 13 13

10.02 v 3 c 10.32

C 14269

9.97 b 2 v 10.17 9.82 10.00 17 18

9.82 v 5 c 10.32

C 14267

9.97 b 2 v 10.17 10.02 10.10 07 08

10.02 v 3 c 10.32

C 14268

9.97 b 1 v 10.07 9.72 9.90 17 18

9.72 v 6 c 10.32

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1902phae.proj..978L

Scale meas. of Seq. for Ceraski's Algol
4, 1903 (Comp stars on I 30187)
Mch 20, 1903

I 30187

a	7.8
b	8.3
c	8.7
d	8.8
e	9.1
f	9.7
g	9.9
h	10.2
K	h & K
l	K & l
var	8.3

I 30198

a	7.5
b	8.0
c	8.3
d	8.5
e	8.7
f	9.1
g	9.3
h	9.7
K	10.2
l	10.5
var.	9.8

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1902phae.proj...9781

H 1903

Saine (cont)

Mch 20, 1903

I 15293

a 8.0
b 8.4
c 8.8
d 9.0
e 9.1
f 9.6
g 9.8
h 10.1
K h 8 K
L K 2 L
v 8.5

I 8312

a 7.3
b 7.7
c 8.0
d 8.4
e 8.7
f 9.0
g 9.3
h 9.5
K 10.1
L 10.3
v. 7.8

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1902phae.proj..978L

Estimates of brightness of Algol 4, 1903
(cont)
Mch 20, 1903

AC 3438
9.97 b 2v 10.17 10.02 = 10.10 07 08
10.02 v 3c 10.32

AC 3154
9.97 b 1v 10.07 10.02 = 10.04 03 02
10.02 v 3c 10.32

I 30183
9.52 a 5v 10.02 9.97 9.92 = 9.97 05 00 02.5
9.97 v 0b 9.97
9.92 v 4c 10.32

AC 3436
9.97 b 1v 10.07 10.02 = 10.04 03 02
10.02 v 3c 10.32

AC 2161
9.97 b 2v 10.17 10.12 = 10.14 03 02
10.12 v 2c 10.32

AC 2010
Too poor.

Near edge AC 1988
9.97 b 2v 10.17 10.22 = 10.20 03 02
10.22 v 1c 10.32

AC 1856
9.97 b 3v 10.27 10.22 = 10.24 03 02
10.22 v 1c 10.32

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1902phae..proj...978L

AC 1812

9.97 b 3 v 10.27 10.22 = 10.24 04 02

10.22 v 1 c 10.32

I 28798

10.54 d 2 v 10.74 10.76 11.01 = 10.84 10 8 17

10.76 v o e 10.76

11.01 v 2 f 11.21

AC 3103

9.97 b 1 v 10.07

e ns

AC 167

9.97 b 1 v 10.07 10.12 = 10.10 03 02

10.12 v 2 c 10.32

AC 790

9.97 b 2 v 10.17 10.32 = 10.24 07 08

10.32 v o c 10.32

d ns

AC 793

9.97 b 1 v 10.07 10.12 = 10.10 03 02

10.12 v 2 c 10.32

I 3368

9.97 b 2 v 10.17 10.22 = 10.20 07 03 02

10.22 v 1 c 10.32

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1902phae.proj..978L

Sat 1903 (cont)

Mch 20, 1903

I 3161

9.97 b 3 v 10.27 10.22 = 10.24 03 02

10.22 v 1 c 10.32

ac 804

9.97 b 3 v 10.27 10.22 = 10.24 03 02

10.22 v 1 c 10.32

I 16916

9.97 b 1 v 10.07 10.02 = 10.04 03 02

10.02 v 3 c 10.32

ac 3013

9.97 b 3 v 10.27 10.12 = 10.20 07 08

10.12 v 2 c 10.32

ac 3010

9.97 b 3 v 10.27 10.22 = 10.24 03 02

10.22 v 1 c 10.32)

ac 3400

9.97 b 1 v 10.07 10.02 = 10.04 03 02

10.02 v 3 c 10.32

ac 2914

Near edge

9.97 b 1 v 10.07 10.02 = 10.04 03 02

10.02 v 3 c 1032

ac 2991

Near edge

10.32 c 1 v 10.42 10.34 = 10.38 04 04

10.34 v 2 d 10.54

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1902phae.proj...978L

Same (cont') 4 1903

Mch 20, 1903

AC 2626

9.97 b 3 v 10.27 10.12 = 10.20 07 08

10.12 v 2 c 10.32

Clean edge AC 2654

9.97 b 2 v 10.17 10.22 = 10.20 03 02

10.22 v 1 c 10.32

Clean edge AC 2812 Isv.

9.97 b 2 v 10.17 10.12 = 10.14 03 02

10.12 v 2 c 10.32

AC 2873

9.97 b 2 v 10.17 10.22 = 10.20 03 02

10.22 v 1 c 10.32

AC 3308

12.41 v o K ? 12.41

AC 1241

9.97 b 1 v 10.07 10.02 = 10.04 03, 02.

10.02 v 3 c 10.32

AC 3296

9.97 b 1 v 10.07 10.12 = 10.10 = 03 02

10.12 v 2 c 10.32

AC 289

9.97 b 1 v 10.07 10.02 = 10.04 03 02

10.02 v 3 c 10.32

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1902phae.proj..978L

4 1903

Same (cont)

Mch 24, 1903

AC 1808

11.75 b 1 v 11.83

K n.s ?

AC 1915

9.97 b 1 v 10.07 10.02 = 10.04 03 02

10.02 v 3 c 10.32

AC 2020

10.32 c 1 v 10.42 10.34 = 10.38 04 04

10.34 v 2 d 10.54

AC 813

10.32 c 1 v 10.42

d n.s

AC 330g

9.97 b 2 v 10.817 10.12 = 10.14 03 02

10.12 v 2 c 10.32

AC 215

9.97 b 1 v 10.07 10.02 = 10.04 03 02

10.02 v 3 c 10.32

AC 2313

9.97 b 3 v 10.27 10.22 = 10.24 03 02

10.22 v 1 c 10.32

AC 1067

9.97 b 2 v 10.17 10.22 = 10.20 03 02

10.22 v 1 c 10.32

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1902phae.proj...978L

4, 1903 Same (cont'd)

March 21, 1903

AC 2870
9.97 b 3v 10.27 10.22 - 10.24 03 02
10.22 v 1 c 10.32

AC 3294
9.97 b 3v 10.27 10.22 - 10.24 03 02
10.22 v 1 c 10.32

AC 1360
9.97 b 2v 10.817 10.02 = 10.10 07 08
10.02 v 3 c 10.32

AC 1543
9.97 b 3v 10.27
c n.s?

AC 1743
9.97 b 2v 10.17
c n.s?

AC 1939
10.76 e 2 N 10.96

AC 2121
10.76 e 6v 11.86
f n.s

AC 2484
9.97 b 3v 10.27 10.22 - 10.24 03 02
10.22 v 1 c 10.32

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1902phae.proj..978L

Sah 1903 (cont)

Mch 21, 1903

ac 2661

10.76 e F 1 : 10.86 10.76

ac 2821

9.97 b 2 v 10.17 10.12 = 10.14 03 02

10.12 v 2 c 10.32

ac 2421

10.32 c 1 N : 10.42.

ac 1564

9.97 b 3 v 10.27 10.22 = 10.24 03 02

10.22 v 1 c 10.32

Assumed to be No 2474 ?

ac 2479

9.97 b 3 v 10.27 10.12 = 10.20 07 08

10.12 v 2 c 10.32

I 28161

11.43 g 2 v 11.63 11.63 = 11.63 00 00

11.63 v 1 W 11.73

Near edge

ac 247

10.32 c 1 v 10.42

d m s

ac 440

10.76 e 1 N 10.86

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1902phae.proj...978L

Same (cont'd) 4 1903

Mch 21, 1903

ac 1179

10.32 c 2v 10.52 10.44 = 10.48 04 04

10.44 v 1 d 10.54

Assumed to be No 2453?

ac 2473

10.32 c 2v 10.52 10.44 = 10.48 04 04

v 1 d

ac 2483

9.97 b 3 v 10.27 10.22 = 10.24 03 02

10.22 v 1 c 10.32

ac 2513

9.97 b 1 v 10.07 10.02 = 10.04 03 02

10.02 v 3 c 10.32

ac 2519

9.97 b 2 v 10.17 10.22 10.20 03 02

10.22 v 1 c 10.32

ac 1422

10.54 d 2 v 10.74 10.66 - 10.70 04 04

10.66 v 1 c 10.76

ac 1451

10.32 c 1 N 10.42

I 2393

9.97 b 3 v 10.27 10.12 = 10.20 07 08

10.12 v 2 c 10.32

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1902phae.proj..978L

4, 1903

Same (cont)

March 21, 1903

I 994

9.97 b 2 v 10.17 10.02 = 10.10 07 08

10.02 v 3 c 10.32)

Hazedge AC 2286

10.76 e 2 N 10.96

Hazedge AC 2315

10.76 e 3 v 11.06 11.11 = 11.08 02 03.

11.11 v 1 f 11.21

AC 1444

9.97 b 3 v 10.27 10.22 = 10.24 03 02

10.22 v 1 c 10.32

Hazedge AC 1081

10.76 e 4 v 11.16

f m, s

AC 1450

9.97 b 3 v 10.27 10.22 = 10.24 03 02

10.22 v 1 c 10.32

AC 1457

10.32 c 2 N 10.52

AC 1485

9.97 b 2 v 10.17 10.22 = 10.20 03 02

10.22 v 1 c 10.32

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1902phae.proj...970L

4 1903 Same (cont)

March 21, 1903

AC 859
10.32 c 1 v 10.42 10.44 = 10.43 01 01
10.44 v 1 d 10.54

Arandqz AC 999
10.32 c 2 v 10.52 10.44 = 10.48 04 04
10.44 v 1 d? 10.54

AC 1137
10.76 v 1 v 10.86
f ns

AC 1196
9.97 b 3 v 10.27 10.22 = 10.24 03 02
10.22 v 1 c 10.32

AC 1419
9.97 b 2 v 10.17 10.22 = 10.20 03 02
10.22 v 1 c 10.32

AC 2566
9.97 b 2 v 10.17 10.22 = 10.20 03 02
10.22 v 1 c 10.32

AC 2611
9.97 b 3 v 10.27 10.22 = 10.24 03 02
10.22 v 1 c 10.32

AC 3187
9.97 b 2 v 10.17 10.22 = 10.20 03 02
10.22 v 1 c 10.32

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1902phae.proj..978L

4, 1903
Same (cont)
March 21, 1903

AC 3114
9.97 b 3 v 10.27 10.22 = 10.24 03 02
10.22 v 1 c 10.32)

AC 3097
9.97 b 1 v 10.07 10.02 = 10.04 03 02
10.02 v 3 c 10.32)

AC 2932
9.97 b 2 v 10.17 10.02 = 10.10 07 05
10.02 v 3 c 10.32

AC 2475
9.97 b 3 v 10.27 10.22 = 10.24 03 02
defective 10.22 v 1 c 10.32

AC 558
9.97 b 3 v 10.27 10.22 = 10.24 03 02
10.22 v 1 c 10.32

I 22930
9.97 b 1 v 10.07 10.02 = 10.04 03 02
10.02 v 3 c 10.32

AC 1555
9.97 b 2 v 10.17 10.22 = 10.20 03 02
10.22 v 1 c 10.32

I 2443
9.97 b 1 v 10.07 10.02 = 10.04 03 02
10.02 v 3 c 10.32

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1902phae..proj...978L

H, 1903

Same (cont)

Mch 21, 1903

I 1090

9.97 b 3v 10.27, 10.32, 10.34 = 10.31 04 01 08

10.32 v 0 c 10.32

10.34 v 2 d 10.34

I 25343

10.32 c 2 v 10.52 10.44 = 10.48 04 04

10.44 v 1 d 10.54

ac 2212

10.32 c 2 v 10.52 10.44 = 10.48 04 04

10.44 v 1 d 10.54

Remeasures of H, 1903

March 24, 1903

ac 2474

9.97 b 2 v 10.17 10.02 = 10.10 07 08

10.02 v 3 c 10.32

ac 2453

10.32 c 1 v 10.42 10.44 = 10.43 01 01

10.44 v 1 d 10.54

ac 3309

9.97 b 3 v 10.27 10.22 = 10.24 03 02.

10.22 v 1 c 10.32

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1902phae.proj..978L

H, 1903 (cont)

Mch 24, 1903

AC 2475

9.97 b 3 v 10.27 10.12 = 10.20 · 07 08

10.12 v 2 c 10.32

AC 586

10.74 c 1 N 10.86

AC 793

9.97 b 3 v 10.27 10.22 = 10.24, 03 02.

10.22 v 1 c 10.32

A 201

10.54 d 2 v 10.74 10.66 = 10.70 04 04

10.66 v 1 e 10.76

Mch 27, 1903 I 30230

9.97 b 2 v 10.17 10.02 = 10.10 07 08

10.02 v 3 c 10.32

I 30226

10.32 c 3 v 10.62 10.44 = 10.53 09 09

10.44 v 1 d 10.54

I 30229

9.97 b 3 v 10.27 10.22 = 10.24 03 02

10.22 v 1 c 10.32

I 30231

9.97 b 2 v 10.17 10.22 = 10.20 03 02

10.22 v 1 c 10.32

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1902phae.proj...978L

H, 1903 (cont)
Mch 27, 1903

✓ I 30232

9.97 b 2 v 10.17 10.02 = 10.10 07 08
10.02 v 3 c 10.32

✓ I 30227

10.32 c 3 v 10.62 10.44 = 10.53 09 09
10.44 v 1 d 10.54

✓ I 30228

9.97 b 3 v 10.27 10.22 = 10.24 03 02
10.22 v 1 c 10.32

✓ I 30225

10.76 e 1 v 10.86 10.91 = 10.88 02 03
10.91 v 3 f 11.21

✓ C 14279

10.54 d 1 v 10.64 10.46 = 10.55 09 09
10.46 v 3 e 10.76

✓ C 14280

9.97 b 3 v 10.27 10.22 = 10.24 03 02
10.22 v 1 c 10.32

✓ C 14284

9.97 b 1 v 10.07 10.02 = 10.04 03 02
10.02 v 3 c 10.32

✓ * C 14282

9.97 b 2 v 10.17 10.22 = 10.20 03 02
10.22 v 1 c 10.32

✓ C 14281

10.32 c 2 v 10.52 10.24 = 10.38 14 14
10.24 v 3 d 10.54

✓ * C 14283

9.97 b 1 v 10.07 10.02 = 10.04 03 02
10.02 v 3 c 10.32

* These plates have X signal images - 1st one measd.

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1902phae.proj..978L

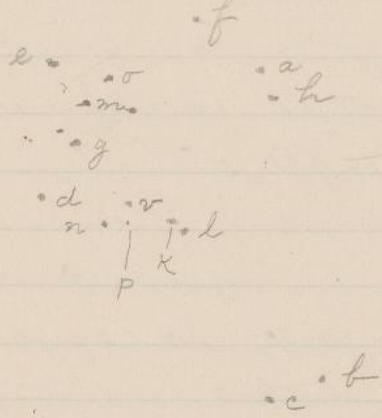
(Carnegie Lundin)

Scale measures of Seq. for var.
R.A. = 20h 13.8 Dec +20° 39 (Comp. Stars on I 17668)

March 10, 1903

I 17668

a	6.0
b	6.3
c	6.7
d	7.0
e	7.3
f	7.5
g	7.8
h	8.0
k	8.5
l	8.9
m	9.2
n	9.5
o	9.8
p	10.0
var.	8.1



I 25732

a	7.3
b	7.7
c	8.0
d	8.5
e	8.7
f	9.0
g	9.3
h	9.6
K	9.8
l	10.3
m	l 3 m
n	m 3 n
o	n 2 o
p	n 3
var.	10.1

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1902phae.proj..978L

Same meas. (cont)

March 10, 1903

I 25719

a	7.2
b	7.5
c	8.0
d	8.5
e	8.6
f	9.0
g	9.3
h	9.5
K	9.8
l	10.2
m	10.5
n	m 2 n
o	n 3 o
p	n.5
var.	10.3

I 8877

a	6.4
b	6.8
c	7.2
d	7.7
e	8.0
f	8.6
g	9.0
h	9.3
K	9.5
l	10.0
m	10.3
n	m 3 n
o	n.5
p	n.5
var	9.7

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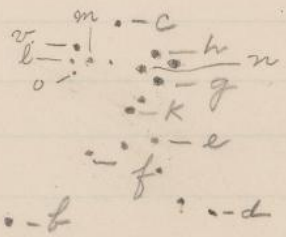
1902phae.proj..978L

Scale measures of Var. appros. Pos
12 49.2 −57 13 Found on a 3584 (W.P.7)
Comp. stars on B 30271
Feb 3, 1903

B 30271

a	5.3		5.3
b	6.1		6.1
c	6.3	6.3	6.3
d	7.2	6.5	6.5
e	7.3	7.2	7.2
f	7.6		7.6
g	8.0		8.0
h	8.3		8.3
k	8.8		8.8
l	9.0		9.0
m	9.2		9.2
n	9.5		9.5
o	10.0		10.0
var	7.0		7.0

W.S meas. for "d"
Remeasured c, d + e. Feb. 9, '03



B 18935

a	6.3		6.3
b	7.5		7.5
c	7.8	7.7	7.7
d	7.9	7.9	7.9
e	8.9	8.5	8.5
f	9.2		
g	9.5		
h	9.7		
k	10.2		
l	10.5		
m	l 2 m		
n	m 2 n		
o	n 2		
var.	8.5		

W.S meas.

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1902phae.proj..978L

Same (cont)

Feb 3, 1903

B27227

a	6.2	
b	~~7.2~~	7.0
c	~~7.5~~	7.4
W.S mas d	~~8.5~~	~~7.7~~
e	~~8.7~~	8.1
f	~~9.1~~	8.7
g	~~9.5~~	9.1
h	~~9.8~~	9.5
k	10.1	
l	10.3	
m	10.5	
n	m 3 n	
o	N. S.	
var.	9.2	

B29714

a	6.3	
b	7.2	
c	~~7.5~~	7.5
W.S mas. d	~~8.7~~	7.9
e	~~8.9~~	8.7
f	9.3	
g	9.7	
h	10.0	
k	10.5	
l	k 3 l	
m	l 2 m	
n	m 3 n	
o	n 20	
Var.	8.7	

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1902phae.proj..978L

Scale measures of sequence for Var.
Approx Pos. 1855 8ʰ 30.6 +50° 38. Found on I 10220.
Comp stars on I 28485

Jan. 15, 1903

I 28485

	a	6.8
	b	7.2
	~~x~~	~~7.5~~
c	~~d~~	8.3
d	x	8.5
e	~~f~~	8.8
f	~~g~~	9.0
g	~~h~~	9.5
h	~~k~~	9.7
k	~~l~~	10.0
l	~~m~~	10.5
m	~~n~~	m 3 n
n	~~o~~	n 2 0
	var.	9.0

I 8305.

	a	5.8
	b	6.5
	~~x~~	~~7.5~~
c	~~d~~	7.5
d	x	7.8
e	~~f~~	8.2
f	~~g~~	8.5
g	~~h~~	8.9
h	~~k~~	9.2
k	~~l~~	9.5
l	~~m~~	9.9
m	~~n~~	10.3
n	o	10.5
	var.	8.5

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Jan 15, 1903

I 24241

a		6.2
b		6.8
	x	
c	x	7.5
d	x	7.8
e	x	8.1
f	x	8.3
g	x	8.7
h	x	8.9
k	x	9.2
l	x	9.7
m	x	9.9
n	x	10.2
var.		n.s

I 14875

a	6.5
b	7.2
c	8.1
d	8.5
e	8.7
f	8.9
g	9.2
h	9.5
k	9.7
l	10.1
m	10.5
n	m ? n
var	10.7

Original "c" dropped from sequence. Is it variable? Seems brighter than "b" on I 8305 + 24241. May be due to position on plate?

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Measures of comp stars "g" "new h" and "k" Original "h" susp. of variation.
(See B 9479) 24 Sc. used

Mch 27, 1903

Estimated intervals between ft. comp stars for R S Virginis 14h 22.3 +5° 7

I 6625
n 30
o 2 fr
fr 4 g
g 2 hr

B 23869
n 20
o 2 fr
fr 5 g
g 2 hr

B 23864
n 20
o 1 fr
fr 3 g
g 3 hr

I 27118
n 20
o 1 fr
fr 3 g
g 2 hr

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Diff. of comp plates for RA & RX
Sag. 4 Var. 3 ~~for~~ added by Mrs. F.

B4028

n 7 p
✓ p 2 q
q 2 r

B18969

n 5 p
✓ p 3 q
q 1 r

B18731

n 5 p
✓ p 3 q
r n.s.

B22798

n 7 p
✓ p 3 q
q 2 r

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1902phab.proj..970L

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