

KG
11366
n857

Final adopted figure of Cowp Stair fork. P. 50.

1861
a
b
c
d
e
f
g
h
i
j
k
l
m
n
o
p
q
r
s
t
u
v
w
x
y
z

(1900)

1

 $\begin{matrix} h \\ 0 \end{matrix} 188^{\circ} + 38^{\circ} 1'$
R Androm.
 $\begin{matrix} h \\ 0 \end{matrix} 19.0^{\circ} - 9^{\circ} 53'$
S Cete.
 $\begin{matrix} h \\ 1 \end{matrix} 255^{\circ} + 2^{\circ} 22'$
R Piscium.

Design.	Wyn.	Resids.	Design.	Wyn.	Resids.	Design.	Wyn.	Resids.
a	5.20	.07 " " " .07	a	6.50	" " " " <u>a</u>	a	6.39	" " " " <u>a</u>
b	5.73	.11 " " " .11	b	6.81	" " " " <u>a</u>	b	6.92	" " " " <u>a</u>
c	6.40	" " " " <u>a</u>	c	7.54	" " " " <u>a</u>	c	7.09	" " " " <u>a</u>
d	7.05	" " .05 " .05	d	7.86	" " .01 " .01	d	7.64	" " .06 " .05
e	7.07	" " .03 " .03	e	8.24	" " " " <u>a</u>	e	8.06	" " .03 " .04
f	7.65	" " .12 " .12	f	8.54	" " " " <u>a</u>	f	8.12	" " " " <u>a</u>
g	8.04	" " .00 " .01	g	8.71	" .10 .07 " .04	g	8.59	" " " " <u>a</u>
h	8.53	" " " " <u>a</u>	h	9.04	" " " " <u>a</u>	h	8.72	" " .20 " .20
k	8.58	" " .08 " .09	k	9.22	" .17 " .18	k	9.04	" " .02 " .01
l	9.03	" " " " <u>a</u>	l	10.35	" " " " <u>a</u>	l	9.34	" " .08 " .09
m	9.52	" " .09 " .08	m	9.98	" " " " <u>a</u>	m	9.22	" " .08 " .07
n	9.37	" " " " <u>a</u>				n	9.89	" " " " <u>a</u>
o	9.60	" " " " <u>a</u>						
p	9.53	" " " " <u>a</u>						

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h 2 10.4 +24° 35'				h 2 20.9 -0° 38'				h 2 20.9 -0° 38'			
R Arietis				R Ceti				o Ceti			
Design.	Mag.	Resids.		Design.	Mag.	Resids.		Design.	Mag.	Resids.	
α	6.18	"	.01	"	"	.01	α	α	5.85	.04	.09
b	7.03	"	<u>R</u>	"	"	<u>α</u>	b	β	6.03	"	.10
c	7.38	"	"	"	"	<u>α</u>	c	γ	6.30	"	.00
d	7.61	"	"	"	"	<u>α</u>	d	δ	6.58	"	.03
e	8.38	"	"	"	"	<u>α</u>	e	ϵ	7.29	"	.06
f	8.61	"	"	"	"	<u>α</u>	f	ζ	8.05	"	.09
g	9.26	"	"	"	"	<u>α</u>	g	η	8.60	"	.06
h	9.47	"	"	"	"	<u>α</u>	h	θ	8.82	"	.08
k	9.92	"	"	"	"	<u>α</u>	k	ι	"	"	<u>R</u>
l	10.03	"	"	"	"	<u>α</u>	l				<u>α</u>
							m				<u>α</u>

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3

$$\begin{array}{l} h \\ 2 \quad 14.3 \quad -3^{\circ} 26' \\ 0 \text{ Ceti} \end{array}$$

$$\begin{array}{l} h \\ 2 \quad 28.9 \quad -13^{\circ} 35' \\ 0 \text{ Ceti} \end{array}$$

Orig	Mag	Residuals
a a	1.06	.06 " .05 " .01
b b	1.58	.02 " " .03
c c	2.23	.19 " .22 " .04
f d	2.26	.13 " .05 " .09
c e	1.78	.12 " " .12
d f	2.07	.00 .10 " " .09
g g	2.82	.14 " .11 " .02
h h	2.72	.07 .27 .15 " .07
k k	3.56	.03 " .11 " .15
l l	3.94	.05 " .08 " .14
m m	4.04	.09 " .16 " .06
n n	4.34	.07 " .05 " .03
o o	4.54	.09 " <u>R</u> " .09
p p	4.36	.02 " " " .03
q q	4.69	.09 " .06 " .02
r r	5.02	.12 .09 .12 " .01
s s	5.54	.01 " " " .00
t t	5.63	.01 " " " .01
u u	5.66	.12 " " " .13
w x	5.85	.04 .09 " .14
x β	6.03	" .10 " " .10
y x	6.30	" " .00 " .01
z γ	6.58	" .03 .04 " .02
l ϵ	7.24	" " .06 " .05
β η	8.05	" " .09 " .09
x γ	8.60	" " .06 " .07

Orig	Mag	Residuals
J θ	8.82	" " .08 " .09
L ϵ	9.19	" " <u>R</u> " <u>a</u>

Orig	Mag	Residuals
a	5.93	.05 .13 " " .08
b	6.76	" .00 " " .00
c	7.00	" " " " <u>a</u>
d	7.67	" " " " <u>a</u>
e	7.78	" " " " <u>a</u>
f	8.14	" " " " <u>a</u>
g	8.37	" " " " <u>a</u>
h	9.00	" " " " <u>a</u>
k	9.04	" " " " <u>a</u>
l	9.51	" " " " <u>a</u>

4

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 $h^m + 9^\circ 56'$
 $4 \quad 228$

R. Lauri.

 $h^m + 53^\circ 29'$
 $5 \quad 92$

R. Aurigae.

 $h^m + 20^\circ 10'$
 $5 \quad 499$

U. Orionis.

Dirig	Magn	Reids	Dirig	Magn	Reids	Dirig	Magn	Reids
a	5.84	.01 .11 " " .09	a	6.17	.03 " .02 " .05	a	4.64	.01 " .06 " .06
b	6.55	" .07 " " .07	b	6.74	" .08 " " .09	b	4.71	.07 .16 " " .10
c	6.58	" .09 " " .10	c	6.98	.12 " .09 " .04	c	5.18	.10 " " " .11
d	7.12	" .11 " " .11	d	7.51	" " .08 " .08	d	5.90	.05 .00 .01 " .06
e	7.44	" .12 .21 " .09	e	8.08	" " .06 " .05	e	6.00	.08 " .09 " .16
f	7.86	" .21 " " .21	f	8.92	" " .05 " .05	f	6.54	" .01 .13 " .14
g	8.13	" " .12 " .12	g	9.16	" " .04 " .03	g	7.12	" .03 " " .04
h	8.58	" " .14 " .13	h	9.80	" " " " <u>a</u>	h	7.64	" .06 " " .06
k	8.75	" " " " <u>a</u>				k	7.98	" " " " <u>a</u>
l	9.28	" " " " <u>a</u>				l	8.10	" " " " <u>a</u>
m	9.65	" " " " <u>a</u>				m	8.93	" " .01 " .01
						n	9.90	" " " " <u>a</u>
						o	8.90	" " <u>a</u> " <u>f</u>

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5

$7^h 1.3^m + 22^\circ 52'$ <i>R Lemnorum</i>				$7^h 27.3^m + 8^\circ 32'$ <i>S Canis Minoris</i>				$8^h 11.0^m + 12^\circ 2'$ <i>R Cancer</i>			
Dirig	Magn	Reids		Dirig	Magn	Reids		Dirig	Magn	Reids	
a	5.20	.06	" " " <u>.05</u>	a	6.62	" " .00 " .00		a	5.15	.02	" .07 " .10
b	5.82	" .01	" " <u>.02</u>	b	7.16	" " .04 " .03		b	5.96	.02	" " " .03
c	5.91	.06	" .07 " .00	c	7.52	" " .18 " .12		c	6.29	" " .02 " .02	
d	6.46	" " .12 " .12		d	7.58	" " .16 " .16		d	6.29	" " " " <u>A</u>	
e	6.90	" " .13 " .13		e	8.12	" " .00 " .00		e	6.96	" .01	" " <u>.01</u>
f	7.01	" " " " <u>A</u>		f	8.42	" " .05 " .04		f	7.48	" " .05 " .06	
g	7.51	" " " " <u>A</u>		g	8.96	" " .01 " .01		g	7.78	" " .08 " .07	
h	8.10	" " .02 " .01		h	9.08	" " " " <u>A</u>		h	7.96	" " .00 " .01	
k	8.50	" " .05 " .06		k	9.54	" " " " <u>A</u>		k	8.14	" " " " <u>A</u>	
l	8.87	" " " " <u>A</u>		l	9.84	" " " " <u>A</u>		l	8.42	" " " " <u>A</u>	
m	8.97	" " .06 " .06						m	8.95	" " " " <u>A</u>	
n	9.12	" " .10 " .11						n	9.35	" " " " <u>A</u>	
o	9.47	" " " " <u>A</u>									

Letters in red are
final notation.

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(1900)

 δ 16.0 $+17^{\circ} 36'$

V Canceri.

 δ 48.3 $+3^{\circ} 27'$

S Hydrae.

 δ 50.8 $-8^{\circ} 45'$

S Hydrae.

Design	Magn	Resids	Design	Magn	Resids	Design	Magn	Resids
b β	6.16	" " " " <u>a</u>	a	6.47	" " " " <u>a</u>	a	6.82	" " " " <u>a</u>
c α	6.66	" " " " <u>a</u>	b	6.84	" " .07 " .06	b	7.42	" " .01 " .00
d β	7.04	" " .03 " .02	c	7.16	" " .00 " .01	c	7.84	" " .09 " .08
e ϵ	8.02	" " .04 " .04	d	7.76	" " .07 " .06	d	7.72	" " " " <u>a</u>
f δ	8.76	" " .01 " .00	e	8.44	" " .03 " .04	e	8.30	" " .05 " .05
g ϵ	8.22	" " .04 " .04	f	8.44	" " .03 " .04	f	8.73	" " " " <u>a</u>
h ζ	8.54	" " .01 " .02	g	8.94	" " .01 " .02	g	8.97	" " .05 " .05
i ζ	8.93	" " " " <u>a</u>	h	9.22	" " " " <u>a</u>	h	8.99	" " " " <u>a</u>
j η	9.14	" " " " <u>a</u>				k	9.24	" " " " <u>a</u>
k θ	9.33	" " " " <u>a</u>				l	9.79	" " " " <u>a</u>
m ι	9.59	" " " " <u>a</u>						
n κ	10.27	" " " " <u>a</u>						

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h ^m 396 +34° 58'				h ^m 422 +11° 54'				h ^m 376 +69° 18'			
R Leonis Minoris.				R Leonis.				R Ursae Majoris			
Design	Mag	Resids		Design	Mag	Resids		Design	Mag	Resids	
a	5.53	.03	" " " .03	a	4.58	.02	" .02 " .03	a	5.90	.04	" " " .05
b	6.03	" .01	" " " .01	b	4.85	.12	" .16 " .04	b	6.32	" " .05	" .04
c	6.41	" .02	" " " .07	c	5.15	.05	" .05 " .10	c	6.24	.08	.09 .01 " .02
d	7.10	" .07	.02 " .10	d	5.18	.12	" " " .13	d	6.63	" .01	.04 " .04
e	7.34	" .08	.02 " .07	e	5.64	.02	.05 " " .07	e	7.26	" " .19	" .20
f	7.20	" " " " <u>A</u>		f	5.90	.20	" " " .20	f	7.55	" .09	.11 " .01
g	7.91	" .11	.06 " .17	g	6.21	" .02	.07 " .09	g	7.77	" " .06	" .06
h	8.00	" " " " <u>A</u>		h	6.37	" " .07	" .07	h	8.08	" " .06	" .05
k	8.38	" " .04	" .05	k	6.66	" " .13	" .12	k	9.47	" " " " <u>A</u>	
l	8.94	" " .08	" .07	l	6.84	" " " " <u>A</u>		l	8.92	" " .05	" .04
m	9.22	" .00	" " .01	m	7.48	" " .05	" .06	m	9.53	" " " " <u>A</u>	
n	9.47	" " " " <u>A</u>		n	7.81	" " .03	" .03	n	9.53	" " " " <u>A</u>	
o	9.83	" " " " <u>A</u>		o	7.57	" " " " <u>A</u>		o	9.70	" " .03	" .02
p	9.67	" " " " <u>A</u>		p	8.14	" " .11	" .10				
				q	8.22	" " .06	" .05				
				r	8.66	" " .07	" .06				
				s	8.90	" " " " <u>A</u>					
				t	8.95	" " " " <u>A</u>					
				u	8.97	" " " " <u>A</u>					
				w	9.13	" " " " <u>A</u>					
				x	9.54	" " " " <u>A</u>					
				y	9.47	" " " " <u>A</u>					

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h^m 11 56.7 +9° 38'				h^m 11 59.1 +19° 21'				h^m 12 9.5 -5° 29'			
R Virginis				R Comae				J Virginis			
Design	Magn	Resids		Design	Magn	Resids		Design	Magn	Resids	
a	6.85	" " " "	<u>a</u>	a	7.06	" .19 " "	<u>.18</u>	a	7.21	" .01 " "	<u>.01</u>
b	7.30	" .03 " "	<u>.02</u>	b	7.61	" " " "	<u>a</u>	b	7.56	" .01 " "	<u>.01</u>
c	7.78	" " " "	<u>a</u>	c	7.71	" " " "	<u>a</u>	c	7.84	" " " "	<u>a</u>
d	8.18	" .04 " "	<u>.03</u>	d	8.16	" .14 " "	<u>.15</u>	d	8.20	" .05 " "	<u>.04</u>
e	8.45	" " .07 " "	<u>.07</u>	e	8.48	" " " "	<u>a</u>	e	8.33	" .07 " "	<u>.07</u>
f	9.00	" " .12 " "	<u>.13</u>	f	8.38	" " " "	<u>a</u>	f	8.91	" " " "	<u>a</u>
g	9.75	" " " "	<u>a</u>	g	8.68	" " " "	<u>a</u>	g	8.81	" " " "	<u>a</u>
h	10.08	" " " "	<u>a</u>	h	9.01	" " " "	<u>a</u>	h	9.54	" " " "	<u>a</u>
k	10.15	" " " "	<u>a</u>	k	9.21	" " " "	<u>a</u>	k	9.45	" " " "	<u>a</u>
				l	9.41	" " " "	<u>a</u>	l	9.91	" " " "	<u>a</u>
				m	9.62	" " " "	<u>a</u>				

(1900)

9

 $h^m -18^{\circ} 42'$
 12 145

R Corvi.

 $h^m -3^{\circ} 52'$
 12 287

Z Virginis

 $h^m +7^{\circ} 33'$
 12 334

P Virginis

Design	Mag	Reids	Design	Mag	Reids	Design	Mag	Reids
a	6.16	" " " <u>α</u>	a	7.14	" .06 " " <u>α</u>	a	5.49	13 " .06 " <u>α</u>
b	6.98	" .06 " " <u>α</u>	b	8.06	" " " " <u>α</u>	b	6.21	" " .01 " <u>α</u>
c	7.37	" " .06 " <u>α</u>	c	7.77	" " " " <u>α</u>	c	6.60	" .03 .00 " <u>α</u>
d	7.88	" " " " <u>α</u>	d	8.23	" " " " <u>α</u>	d	6.85	" " .07 " <u>α</u>
e	8.41	" " .00 " <u>α</u>	e	8.63	" " " " <u>α</u>	e	6.94	" .08 " " <u>α</u>
f	8.52	" " .08 " <u>α</u>	f	8.96	" " " " <u>α</u>	f	7.58	" .09 " " <u>α</u>
g	8.92	" " .00 " <u>α</u>	g	9.20	" " " " <u>α</u>	g	8.03	" " .04 " <u>α</u>
h	9.51	" " " " <u>α</u>	h	9.46	" " " " <u>α</u>	h	8.12	" " .10 " <u>α</u>
			k	9.63	" " " " <u>α</u>	k	8.49	" " " " <u>α</u>
						l	8.87	" " " " <u>α</u>
						m	9.14	" " " " <u>α</u>

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h^m $12^h 44.6^m +17^\circ 8'$ <i>F Comae</i>				h^m $12^h 46.0^m +6^\circ 6'$ <i>U Virginis</i>				h^m $13^h 24.2^m -22^\circ 46'$ <i>R Hydrae</i>			
Design	Magn	Resids		Design	Magn	Resids		Design	Magn	Resids	
a	8.98	"	<u>a</u>	a	7.14	"	<u>a</u>	a	3.33	.02	.09
b	9.28	"	<u>a</u>	b	7.33	"	<u>a</u>	b	3.52	.01	.09
				c	7.43	"	<u>a</u>	c	3.76	.04	.04
				d	7.77	.14	.06	d	3.93	.01	.10
				e	8.23	"	.06	e	4.19	.04	.01
				f	8.50	"	<u>a</u>	f	4.37	.00	.06
				g	8.74	"	<u>a</u>	g	4.79	.03	"
				h	8.98	"	.00	h	5.16	.03	.10
				k	9.21	"	<u>a</u>	k	5.34	.07	.14
				l	9.38	"	.06	l	5.70	.14	.03
				m	9.23	"	<u>a</u>	m	5.93	.05	"
				n	9.50	"	<u>a</u>	n	6.45	"	<u>a</u>
								o	6.65	"	<u>a</u>
								p	7.25	"	<u>a</u>
								q	7.25	"	<u>a</u>
								r	7.70	"	<u>a</u>
								s	7.77	"	<u>a</u>
								t	8.39	"	<u>a</u>
								u	9.04	"	<u>a</u>
								w	9.18	"	<u>a</u>

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$h \quad 2^m \quad -2^{\circ} 39'$ 13 27.6						$h \quad 2^m \quad -6^{\circ} 41'$ 13 27.8						$h \quad 44.6 \quad +40^{\circ} 2'$ 13 44.6								
Virginis						Virginis						Cam. Venatici								
Disig	Mag	Resids				Disig	Mag	Resids				Disig	Mag	Resids						
a	7.20	"	"	"	<u>a</u>	a	4.83	.08	.14	"	"	.07	a	6.78	.08	"	"	"	.07	
b	7.23	"	"	"	<u>a</u>	b	5.78	.07	.13	"	"	.06	b	7.10	"	"	"	"	<u>a</u>	
c	7.46	"	"	"	<u>a</u>	c	6.08	.06	.08	"	"	.01	c	7.03	"	"	"	"	<u>a</u>	
d	7.66	"	"	"	<u>a</u>	d	6.94	"	"	.03	"	.02	d	7.67	"	"	"	"	<u>a</u>	
e	8.16	"	"	"	<u>a</u>	e	7.39	"	"	"	"	<u>a</u>	e	8.20	"	"	"	"	<u>a</u>	
f	7.98	"	"	.51	"	.52	f	7.72	"	"	"	"	<u>a</u>	f	8.30	"	"	"	"	<u>a</u>
α	9.07	"	"	.50	"	.50	g	8.06	"	"	"	"	<u>a</u>	g	8.83	"	"	"	"	<u>a</u>
g	8.83	"	"	"	"	<u>a</u>	h	8.33	"	"	"	"	<u>a</u>	h	9.03	"	"	"	"	<u>a</u>
h	8.86	"	.01	"	"	<u>a</u>	k	8.69	"	"	"	"	<u>a</u>	k	9.36	"	.04	"	"	.04
k	9.23	"	"	"	"	<u>a</u>	l	9.23	"	"	"	"	<u>a</u>	l	9.27	"	"	"	"	<u>a</u>
n	9.70	"	"	"	"	<u>a</u>	n	9.26	"	"	"	"	<u>a</u>	m	9.87	"	"	"	"	<u>a</u>
														n	9.74	"	.13	"	"	.14
														o	9.92	"	"	"	"	<u>a</u>
														p	9.10	"	"	"	"	<u>a</u>

(1900)

h m 13 56.6 +2° 2'				h 3 m 14 42.8 +27° 10'				h 15 m 15 15.6 -20° 2'			
Z Virginis				R Bootis				S Librae			
Design	Magn	Residuals		Design	Magn	Residuals		Design	Magn	Residuals	
a	8.49	" " " "	<u>A</u>	a	5.94 ^{0.01} 5.95 ^{0.07} 5.96 ^{0.04}	" " " "	<u>A</u>	a	7.01	" " " "	<u>A</u>
b	8.76	" " " "	<u>A</u>	b	6.15 ^{16.16} " " " "	00		b	7.80	" " " "	<u>A</u>
c	8.39	" " " "	<u>A</u>	c	6.96 ^{0.03} 6.97 ^{0.03} 6.98 ^{0.03}	" " " "	<u>A</u>	c	7.76	" " ²³ " ²²	<u>A</u>
e	8.49	" " " "	<u>A</u>	d	7.40	" " " "	<u>A</u>	d	8.25	" " " "	<u>A</u>
				e f	7.94	" " ^{0.05} " ^{0.04}	<u>A</u>	e	8.10	" " " "	<u>A</u>
				f g	8.14	" " ^{0.02} " ^{0.01}	<u>A</u>	f	8.55	" " " "	<u>A</u>
				g h	8.48 ³ 8.49 ^{0.00} 8.50 ^{0.07} 8.51 ^{0.06}	" " ^{0.03} " ^{0.03}	<u>A</u>	g	8.55	" " " "	<u>A</u>
				h k	8.93	" " ^{0.03} " ^{0.03}	<u>A</u>	h	8.87	" " " "	<u>A</u>
				k l	8.87	" " " "	<u>A</u>	l	9.68	" <u>A</u> " " "	
				l m	9.26	" " ^{0.10} " ^{0.09}	<u>A</u>				
				m n	9.67	" " " "	<u>A</u>				

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13

$15^h 17^m +14^{\circ} 40'$ γ Serpentis			$15^h 44^m +28^{\circ} 28'$ γ Coronae			$16^h 17^m +18^{\circ} 38'$ γ Herculis		
Design	Mag	Resids	Design	Mag	Resids	Design	Mag	Resids
a	7.15	" " " " <u>α</u>	a	5.28	.06 " " " " <u>α</u>	a	7.37	" " " " <u>α</u>
b	7.73	" .09 .12 " <u>α</u>	b	5.60	.00 " .04 " <u>α</u>	b	7.60	" " " " <u>α</u>
c	7.85	" " .02 " <u>α</u>	c	5.73	.07 " .03 " <u>α</u>	c	7.64	" " " " <u>α</u>
d	8.57	" " <u>α</u> " <u>R</u>	d	6.30	" " " " <u>α</u>	d	7.94	" " " " <u>α</u>
e	8.64	" .00 " " .01	e	6.50	" " " " <u>α</u>	e	8.44	" " .08 " <u>α</u>
f	9.04	" .10 " " .09	f	7.46	" " .17 " <u>α</u>	f	8.88	" " .27 " <u>α</u>
g	8.92	" .07 " " .07	g	7.80	" " " " <u>α</u>	g	8.97	" " " " <u>α</u>
h	9.40	" " .14 " <u>α</u>	h	7.90	" " .16 " <u>α</u>	h	9.09	" " .19 " <u>α</u>
i	10.21	" " <u>α</u> " "	i	8.42	" " .11 " <u>α</u>	i	9.34	" " .18 " <u>α</u>
			j	8.80	" " " " <u>α</u>	j	9.40	" " .15 " <u>α</u>
			k	8.70	" " " " <u>α</u>	k	9.40	" " <u>α</u> " <u>R</u>
			l	9.16	" " .10 " <u>α</u>			
			m	9.46	" " .10 " <u>α</u>			
			n	9.76	" " .30 " <u>α</u>			
			o	10.46	" " <u>α</u> " <u>R</u>			

(1900)

*T. Scapit**U. Herculis**W. Herculis*

16 11.1 -22° 44'			16 21.4 +19° 7'			16 31.7 +37° 32'		
Derig	Mag	Resids	Derig	Mag	Resids	Derig	Mag	Resids
d	7.49	" " A " "	a	5.00	.30 " " " .29	a	7.77	" " " " A
f	8.38	" " A " "	b	5.89	.01 .01 " " .01	b	8.05	" " " " A
g	8.54	" " A " "	c	6.14	.14 " " " .13	c	8.33	" " " " A
			d	6.61	" " " " A	d	8.60	" " .04 " .03
a	6.34	" " " " A	e	7.04	" " .04 " .03	e	8.80	" " " " A
b	6.62	" " " " A	f	7.18	" " .04 " .04	f	9.02	" " .08 " .07
c	7.10	" " " " A	g	7.28	" .07 .10 " .12	g	9.07	" " " " A
d	7.49	" " A " "	h	7.74	" " " " A	h	9.63	" " " " A
e	7.42	" " " " A	k	7.94	" .06 .08 " .13			
f	8.34	" " A " "	l	8.14	" " .08 " .07			
g	8.54	" " A " "	m	8.22	" " .00 " .01			
h			n	8.66	" .14 .01 " .12			
k			o	8.88	" " .04 " .04			
l			p	9.40	" " .08 " .07			
m			q	9.51	" " " " A			
n								
o								
p								
q								

(1900)

15

R Ophiuchi

J Herculis

R Scuti

17 ^h 20 ^m -15° 58'			18 ^h 5.3 ^m +31° 0'			18 ^h 42.1 ^m -5° 48'		
Derig	Mag	Resids	Derig	Mag	Resids	Derig	Mag	Resids
a	6.46	" " " " <u>a</u>	a	6.66 6.64	" .15 .10 " <u>26</u>	a	4.47	.12 .05 .05 " .01
b	6.67	" .08 " " <u>.08</u>	b	7.32 7.32	" " .24 " <u>.25</u>	b	4.72	.03 .03 " " .00
c	7.41	" " .18 " <u>.18</u>	c	7.63 7.63	" " " " <u>a</u>	c	5.04	.10 .10 " " .01
d	7.47	" " .17 " <u>.17</u>	d	8.02 8.02	" " .14 " <u>.15</u>	d	5.76	.06 " .09 " <u>.04</u>
e	7.68	" " .13 " <u>.13</u>	e	8.10 8.10	" " .06 " <u>.17</u>	e	5.55	.06 " .24 " <u>.19</u>
f	7.90	" .11 " " <u>.10</u>	f	8.47 8.47	" " " " <u>a</u>	f	6.22	" " .02 " <u>.02</u>
g	8.14	" " .12 " <u>.11</u>	g	8.43 8.43	" " " " <u>a</u>	g	6.53	" " .01 " <u>.01</u>
h	8.62	" " .27 " <u>.26</u>	h	8.72 8.72	" " " " <u>a</u>	h	7.08	" " .16 " <u>.16</u>
k	8.61	" " " " <u>a</u>	k	9.30 9.30	" " " " <u>a</u>	k	7.76	" " " " <u>a</u>
l	9.34	" " .02 " <u>.03</u>	l	9.43 9.43	" " " " <u>a</u>	l	7.86	" " " " <u>a</u>
m	9.62	" " .10 " <u>.11</u>	m	9.50 9.50	" " " " <u>a</u>	m	8.15	" " .04 " <u>.04</u>
			n	9.20		n	8.31	" " .07 " <u>.07</u>
						o	8.62	" " " " <u>a</u>

Resids. & mag. correctly
entered on double sheet.

(1900)

R Cygni.

^h 19	^m 341	^s +49° 58'	Design	Magn	Resids
a	5.77	.13	"	.13	" .01
b	5.65	.08	"	"	" .08
c	6.19	.09	"	"	" .09
d	6.50	"	"	.04	" .03
e	6.50	"	"	"	" .01
f	7.17	"	"	"	" .01
g	7.28	"	"	.06	" .00
h	7.64	"	"	.03	" .04
k	8.04	"	"	.03	" .04
l	8.10	"	"	"	" .01
m	8.86	"	"	.14	" .13
n	9.29	"	"	.07	" .09
o	9.38	"	"	.16	" .15

X Cygni.

^h 19	^m 467	^s +32° 40'	Design	Magn	Resids
a	3.30	.01	"	"	" .00
b	3.82	.09	"	"	" .08
c	4.03	.01	"	.01	" .03
d	4.46	.12	"	"	" .12
e	4.38	.09	"	"	" .08
f	5.03	.01	"	.06	" .04
g	5.89	.05	"	.08	" .04
h	6.00	"	"	.09	" .10
k	6.18	"	"	.02	" .03
l	6.35	"	"	.15	" .15
m	6.58	"	"	.04	" .05
n	6.84	"	"	.03	" .04
o	7.28	"	"	.02	" .03
p	7.62	"	"	.08	" .09
q	7.60	"	"	"	" .01
r	8.10	"	"	.10	" .10
s	8.33	"	"	.09	" .09
t	8.73	"	"	.09	" .09
u	9.04	"	"	.10	" .11
w	9.25	"	"	"	" .01
z	9.03	"	"	"	" .01

S Cygni.

^h 20	^m 3.4	^s +57° 42'	Design	Magn	Resids
B	4.29	.12	"	.06	" .05
a	7.88	"	"	.05	" .05
b	8.43	"	"	"	" .01
c	8.76	"	"	.23	" .23
d	9.18	"	"	.10	" .11
e	9.43	"	"	.23	" .23

(1900)

17

R Delphini

20^h 10.5^m +8° 47'

Design	Mag	Resids
a	6.78	" .09 .06 " .04
b	6.94	" .28 .05 " .24
c	7.28	" .09 " " .09
d	7.71	" " " " <u>α</u>
e	7.93	" " " " <u>α</u>
f	8.48	" " .34 " <u>30</u>
g	8.91	" " " " <u>α</u>
h	9.14	" " " " <u>α</u>
k	9.57	" " 14 " <u>14</u>

U Cygni.

20^h 16.5^m +47° 35'

Design	Mag	Resids
a	5.87	.07 .25 " " 19
b	6.28	" .14 " " <u>15</u>
c	6.47	" " " " <u>α</u>
d	6.93	" " " " <u>α</u>
e	7.77	" " .10 " <u>10</u>
f	8.37	" " " " <u>α</u>
g	8.77	" " " " <u>α</u>
h	9.25	" " 12 " <u>12</u>
k	9.33	" " " " <u>α</u>
l	9.97	" " " " <u>α</u>

V Cygni.

20^h 38.7^m +47° 47'

Design	Mag	Resids
a	6.22	" .10 " " .09
b	6.72	.02 " " " <u>02</u>
c	7.17	" " " " <u>α</u>
d	7.60	" " " " <u>α</u>
e	8.20	" " " " <u>α</u>
f	8.10	" " " " <u>α</u>
g	8.60	" " .03 " <u>03</u>
h	8.83	" " " " <u>α</u>
k	9.03	" " " " <u>α</u>
l	9.20	" " " " <u>α</u>

(1900)

<i>γ Aquarii</i>			<i>δ Aquarii</i>			<i>κ Pegasi</i>		
20	44.7	-5° 31'	22	57.7	-20° 53'	23	16	+10° 0'
Design	Magn	Residuals	Design	Magn	Residuals	Design	Magn	Residuals
a	5.50	.02 " " " .01	a	6.67	" " " " <u>α</u>	a	5.97	" .02 " " .02
b	6.03	" " .21 " .21	b	6.90	" .08 " " .07	b	6.50	" " " " <u>α</u>
c	6.58	" .08 " " .07	c	7.27	" " " " <u>α</u>	c	6.54	" " " " <u>α</u>
d	6.78	" .17 " " .16	d	7.56	" " .10 " .09	d	6.80	" " " " <u>α</u>
e	7.10	" .12 .08 " .19	e	8.10	" " " " <u>α</u>	e	7.51	" .09 .11 " .01
f	7.37	" " " " <u>α</u>	f	8.33	" " " " <u>α</u>	f	7.73	" .01 " " .01
g	8.10	" " .05 " .05	g	8.70	" " .15 " .16	g	7.91	" .11 " " .11
h	8.31	" " " " <u>α</u>	h	8.60	" " .09 " .10	h	8.64	" .18 " .17
k	8.64	" " " " <u>α</u>	k	8.09	" " .09 " .09	k	8.63	" " .26 " .26
l	8.35	" " " " <u>α</u>	l	8.86	" " .06 " .05	l	9.06	" .01 " " .02
m	8.82	" " .05 " .05	m	9.28	" " " " <u>α</u>	m	9.40	" " .12 " .13
n	9.05	" " " " <u>α</u>				n	9.50	" " " " <u>α</u>
o	9.47	" " " " <u>α</u>				o	9.83	" " .02 " .07
						p	10.14	" " " " <u>α</u>

(1900)

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St Regasi.

R Aquarii.

St Cygni.

23 ^h 10 ^m 5 ^s + 8° 22'				23 ^h 38 ^m 6 ^s - 15° 50'							
Design	Mag	Resids		Design	Mag	Resids		Design	Mag	Resids	
a	7.08	"	" 06 " 07	a	5.46	.05 " .05 " .09	a	7.27			
b	7.08	"	" " " <u>α</u>	b	5.96	.11 .06 .10 " .04	c	2.61			
c	7.71	"	" " " <u>α</u>	c	6.41	" " .02 " .02	d	2.65			
d	7.67	"	" .12 " <u>α</u>	d	6.96	" .29 .11 " .17	e	2.93			
e	8.33			e	7.60	" " .05 " .04	f	9.39			
f	8.18	"	" " " <u>α</u>	f	8.14	" " .07 " .08	g	9.42			
g	8.74	"	" " " <u>α</u>	g	8.29	" " " " <u>α</u>					
h	9.22	"	" .07 " .08	h	8.59	" " " " <u>α</u>					
k	9.35	"	" .04 " .04	k	9.02	" " .09 " .09					
l	9.38	"	" " " <u>α</u>	l	9.19	" " " " <u>α</u>					
o	9.50	"	" " " <u>α</u>	m	9.49	" " " " <u>α</u>					

(1900)

R Cygni.

R Vulpeculae.

P Coronae.

Design.	Magn.	Residuals.	Design.	Magn.	Residuals.	Design.	Magn.	Residuals.
a	^{6.14} 6.22	A	a	⁷ 6.53	A	a	5.05	.07 .02 .02 .02 ✓
b	⁷ 6.92	A	b	¹ 7.24	A	b	5.57	12.16.03 .07.06 ✓
c	⁰ 7.14	A	c	⁷⁴ 7.04	12 . 13	c	6.14	. . . . 17.12 ✓
d	⁷ 7.63	A	d	⁸⁴ 7.72	12 . 12	d	6.72	. . . . A ✓
e	⁶ 7.92	A	e	7.94	A	e	6.46	. . . .01 . .00 ✓
f k	8.44	A	f	8.47	A	f	7.26	. . . . A ✓
g f	7.96	A	g	⁶⁸ 8.52	17 . 18	g	7.91	. . . .04 . .04 ✓
h	8.24	A	h	9.03	A	h	8.24	. . . .01 . .01.01 ✓
k g	8.14	A	k	9.48 ⁶	. 01 . 02	k	8.54	. . . .00 . .01 ✓
l	8.94	A	l	9.78	A	l	8.49	. . . . A ✓
m	9.12	A	R			m	9.02	. . . .02 . .01 ✓
n	9.56	A				n	9.42	. . . .02 . .03 ✓
o	9.68	A				o	9.53	. . . . A ✓

P. Hercules.

R. Sagittarii.

Design.	Magn.	Residuals.	Design.	Magn.	Residuals.
a	6.95	01.05 .15.11	a	6.32	.0504
b	6.41	00.13 .05 .09.07	b	6.29	. . . . .04
c	6.62	.0302	c	6.22	. . . . .04
d	6.92	.01.06 . . .02	d	7.32	. . .17 . . .12
e	7.22	. . . . .04	e	7.90	. . . . .04
f	7.42	. . .05 . . .05	f	2.02	. . .03 . . .02
g	2.19	. . .02 . . .02	g	2.14	. . . . .04
h	2.37	. . .07.03 . . .04	h	. . .	. . . . .04
k	2.92	.13.09 . . .05	k	2.72	. . . . .04
l	9.12	. . . . .04	l	. . .	. . . . .04
m	9.31	. . . . .04	m	2.23	. . . . .04
			n	9.27	. . . . .04

Final adopted magn. for 60 Variables
May 29, 1901.

	$\times \checkmark$	$\times \checkmark$	$\times \checkmark$		$\times \checkmark$	$\times \checkmark$	$\times \checkmark$	$\times \checkmark$	$\times \checkmark$
	T Androm	R Androm	S Ceti	U Cass	R Pic	R Aric	S Ceti	R Ceti	U Ceti
a	7.47	5.20	6.60		6.37	6.46	1.26	7.06	5.93
b	7.68	5.72	6.92		6.82	6.90	1.66	7.46	6.80
c	8.07	6.40	7.36		7.17	7.43	1.86	7.74	7.11
d	8.40	6.94	7.86		7.59	7.79	2.03	8.03	7.48
e	8.75	7.35	8.20		7.98	8.23	2.19	8.25	7.90
f	9.08	7.71	8.52		8.19	8.71	2.39	8.42	8.26
g	9.29	8.11	8.71		8.57	9.16	2.68	8.70	8.51
h	9.46	8.29	9.03		8.72	9.41	2.95	8.97	8.79
k	9.82	8.65	9.34		8.95	9.75	3.56	9.42	9.11
l	10.04	8.97	9.87		9.25	10.05	3.83	9.75	9.43
m	10.25	9.18	10.19		9.37	10.27	4.13	10.22	9.76
n	10.50	9.40	10.49		9.82	10.76	4.27	10.60	10.03
o	10.69	9.52	10.94		10.30	11.15	4.39	11.20	10.30
p	10.90	9.69	11.20		10.64	11.58	4.62	11.53	10.54
q	11.24	9.80	11.47		11.12	11.90	4.93	12.00	11.05
r	11.54	10.17	11.74		11.42	12.32	5.10	12.51	11.55
s	11.77	10.58	12.14		11.83	12.87	5.38	13.02	12.06
t	12.05	11.04	12.51		12.06	13.26	5.53	13.55	12.44
u	12.33	11.56	12.93		12.30	13.70	5.67		12.92
w	12.58	11.97	13.28		12.74	14.20	5.84		13.22
x	12.80	12.38	13.72		13.13	14.64	6.08		13.58
y	13.03	12.87			13.37		6.36		
z	13.30	13.35			13.66		6.67		
aa	13.69	13.94			14.00		7.28		
ab	13.96						8.02		
ac	14.42						8.58		
ad	14.77						8.82		
ae	15.06						9.19		
af									

Continuation

Wt	X ₁ ✓	X ₂ ✓	X ₃ ✓	X ₄ ✓	X ₅ ✓	X ₆ ✓	X ₇ ✓	X ₈ ✓	X ₉ ✓
	R & Sauri	U Orion	R Gem	S Cam Min	R Canori	V Canori	S Hydrae	T Hydrae	R Leo Min
a	5.84	4.52	5.20	6.72	5.17	6.00	6.48	6.92	5.58
b	6.45	4.82	5.62	7.06	5.77	6.21	6.79	7.42	5.99
c	6.69	5.28	5.97	7.44	6.12	6.67	7.19	7.73	6.46
d	7.16	5.80	6.47	7.70	6.59	7.16	7.73	7.91	6.91
e	7.49	6.01	6.84	8.06	7.01	7.80	8.25	8.21	7.09
f	7.79	6.62	7.11	8.48	7.32	8.23	8.56	8.57	7.39
g	8.16	7.04	7.60	8.79	7.73	8.66	8.91	8.85	7.70
h	8.56	7.61	7.92	9.27	8.06	8.85	9.42	9.06	8.13
k	8.79	7.94	8.25	9.66	8.32	8.83	9.88	9.37	8.47
l	9.25	8.27	8.64	10.02	8.60	9.14	10.23	9.65	8.79
m	9.68	8.88	8.87	10.44	8.90	9.34	10.66	9.91	9.04
n	9.88	9.00	9.28	10.82	9.28	9.61	11.04	10.03	9.36
o	10.26	9.36	9.65	11.26	9.55	10.24	11.52	10.61	9.59
p	10.64	9.66	10.22	11.70	9.93	10.84	11.84	10.85	9.98
q	11.14	10.18	10.76	12.26	10.21	11.27	12.28	11.19	10.51
r	11.66	10.56	11.14	12.67	10.58	11.57	12.82	11.45	10.94
s	12.04	11.05	11.61	13.18	10.78	11.94	13.46	11.79	11.58
t	12.46	11.57	12.08	13.62	11.15	12.33	14.09	12.17	12.03
u	13.01	12.17	12.51	14.18	11.49	12.76		12.52	12.39
w	13.42	12.67	12.82		11.91	13.10		13.00	12.78
x	13.84	13.24	13.19		12.22	13.47		13.37	12.97
y	14.12	13.86	13.53		12.70	13.86		13.71	13.10
z	14.54				13.17	14.08		13.94	
α					13.56	14.53			
β					13.96				
γ									
δ									
ε									
ζ									

continuation

Not.	H✓	X✓	✓	✓	✓	✓	✓	✓	✓
	R Leonis	X Virg.	R Comae	T Virg.	R Gwi.	Y Virg.	R Virg.	U Virg.	V Virg.
a	4.66	6.83	7.11	7.31	6.24	7.29	5.50	7.08	7.15
b	4.89	7.34	7.58	7.57	6.93	7.72	6.04	7.33	7.30
c	5.19	7.73	7.80	7.87	7.40	7.94	6.49	7.56	7.44
d	5.45	8.14	8.07	8.05	7.96	8.19	6.87	7.85	7.72
e	5.64	8.54	8.38	8.44	8.27	8.69	7.09	8.15	8.16
f	5.84	9.05	8.51	8.79	8.66	8.90	7.56	8.46	8.42
g	6.12	9.68	8.68	8.90	9.02	9.19	7.88	8.72	8.59
h	6.43	10.04	8.96	9.26	9.34	9.46	8.20	8.98	8.96
k	6.62	10.34	9.17	9.61	9.58	9.68	8.58	9.20	9.28
l	6.88	10.82	9.40	10.06	9.86	9.99	8.95	9.26	9.84
m	7.23	11.16	9.66	10.62	10.02	10.34	9.34	9.21	10.25
n	7.47	11.48	10.00	11.06	10.24	10.82	9.62	9.50	10.65
o	7.67	11.78	10.57	11.42	10.88	11.07	9.89	10.08	11.04
p	8.02	12.02	10.87	11.81	11.24	11.55	10.21	10.44	11.45
q	8.21	12.46	11.38	12.12	11.69	11.96	10.59	10.93	11.74
r	8.41		11.96	12.80	12.30	12.39	10.98	11.19	12.09
s	8.65		12.16	12.78	12.70	12.90	11.48	11.52	12.35
t	8.85		12.53	13.12	13.19	13.17	11.79	11.75	12.65
u	8.98		12.95	13.43	13.74	13.63	12.18	12.17	12.91
w	9.14		13.65	13.75			12.47	12.49	13.21
x	9.68		13.75	14.01			12.79	12.83	
y	9.64			14.32				13.16	
z	10.12							13.46	
α	10.45								
β	10.84								
γ									
δ									
ε									
ζ									

Continuation

	✓	✓	✓	✓	✓	✓	✓	✓	✓
not	R Hydrae	S Virg	R Com. Ven.	R Boötes	S Librae	S Serp.	S Coronae	R Coronae	R Herculis
a	3.26	4.83	6.80	5.81	6.99	7.25	5.00	5.28	7.35
b	3.52	5.59	7.14	6.22	7.76	7.60	5.62	5.56	7.59
c	3.81	6.08	7.46	6.94	7.76	7.97	6.19	5.94	7.94
d	4.01	6.78	7.80	7.44	7.99	8.38	6.61	6.15	8.10
e	4.22	7.32	8.13	7.88	8.18	8.73	6.96	6.72	8.35
f	4.41	7.70	8.46	8.24	8.44	8.90	7.38	7.18	8.63
g	4.79	7.94	8.64	8.44	8.63	9.02	7.82	7.63	8.83
h	5.08	8.42	8.99	8.78	8.87	9.32	8.14	7.93	9.06
k	5.28	8.63	9.13	8.96	9.29	9.68	8.47	8.28	9.29
l	5.57	9.01	9.19	9.24	9.64	10.08	8.77	8.60	9.46
m	5.85	9.26	9.59	9.68	9.88	10.50	9.05	8.88	9.90
n	6.33	9.40	9.77	10.09	10.19	10.91	9.38	9.20	10.27
o	6.80	9.67	10.17	10.48	10.35	11.24	9.68	9.49	10.70
p	7.03	9.99	10.44	10.87	10.80	11.51	10.26	9.82	11.38
q	7.34	10.32	10.18	11.28	11.20	11.75	11.09	10.29	11.88
r	7.82	10.72	11.69	11.73	11.67	12.06	11.83	10.66	12.35
s	8.04	11.05	12.14	12.26	12.14	12.29	12.41	11.10	12.90
t	8.49	11.52	12.75	12.63	12.46	12.50		11.36	13.27
u	8.95	12.04	13.41	13.05	12.81	12.72		11.79	13.75
w	9.26				13.14	13.01		12.20	
x	9.52				13.61			12.63	
y	9.89							13.07	
z	10.12								
α	10.34								
β									
γ									
δ									
ε									
ζ									

Continuation

not	R ⁹⁰ Scorpi	U Her.	W Her.	S Her.	R Oph	T Her.	R Scuti	R Sagittar	R Cygn
a	6.42	5.25	7.75	5.95	6.66	6.67	4.50	6.34	5.10
b	6.74	5.79	8.12	6.41	6.84	7.02	4.82	6.76	5.71
c	7.07	6.18	8.39	6.67	7.24	7.17	4.97	7.06	6.16
d	7.32	6.57	8.54	6.93	7.41	7.50	5.19	7.35	6.42
e	7.64	6.99	8.78	7.18	7.60	7.82	5.65	7.67	6.73
f	8.05	7.18	9.02	7.60	7.81	8.10	6.13	7.92	7.03
g	8.30	7.39	9.15	8.09	8.18	8.59	6.74	8.13	7.23
h	8.69	7.67	9.49	8.31	8.58	8.69	7.07	8.39	7.52
k	8.93	7.81	9.79	8.78	8.83	8.94	7.56	8.63	8.03
l	9.07	8.18	10.22	9.15	9.21	9.15	7.63	8.76	8.35
m	9.24	8.35	10.66	9.39	9.53	9.44	8.00	9.06	8.76
n	9.55	8.61	11.16	9.64	9.82	9.82	8.31	9.26	9.15 ⁴
o	10.16	8.96	11.68	10.06	10.20	10.40	8.62	9.51	9.65 ²
p	10.46	9.29	12.02	10.52	10.69	10.97		9.87	10.02
q	10.65	9.76	12.42	10.86	11.27	11.65		10.23	10.58 ³
r	10.86	10.36	12.90	11.32	11.56	12.41		10.42	10.95 ³
s	11.02	10.88	13.19	11.78	11.99	12.96		10.86	11.34 ²
t	11.32	11.60	13.50	12.48	12.57	13.30		11.16	11.82 ²⁸
u	11.54	12.02	13.82	12.85	12.90			11.52	12.17 ⁰
w	11.87	12.28	14.03		13.43			11.89	12.36 ⁹
x	12.23	12.86	14.28		13.82			12.14	12.62 ⁷⁶
y	12.43	13.15	14.51					12.48	13.14 ⁶²
z	12.64	13.39							13.54 ⁵⁴
α	12.97								13.76 ⁵⁴
β	13.20								13.93
γ									14.42
δ									
ε									
ζ									

Continuation

Not	X Cygni	R S Cygni	R Delphin	U Cygni	V Cygni	T Aquarii	R Vulp.	S S Cygni	S Aquarii
a	3.30	6.23	6.76	5.84	6.27	5.50	6.67	8.00	6.57
b	3.85	6.90	6.95	6.18	6.63	6.13	7.23	8.32	6.92
c	4.04	7.25	7.35	6.54	7.13	6.48	7.47	8.50	7.37
d	4.41	7.51	7.66	7.10	7.67	6.80	7.79	8.60	7.62
e	4.66	7.75	8.08	7.77	7.96	7.20	8.07	8.90	8.10
f	5.06	8.15	8.29	8.36	8.29	7.43	8.47	9.39	8.37
g	5.55	8.17	8.78	8.82	8.50	7.83	8.77	9.62	8.53
h	5.73	8.28	9.15	9.25	8.77	8.04	9.12	9.98	8.57
k	6.09	8.58	9.51	9.51	9.00	8.38	9.34	10.43	8.61
l	6.40	8.80	9.81	9.78	9.27	8.64	9.54	10.92	8.86
m	6.60	9.05	10.14	9.96	9.96	8.90	9.79	10.90	9.30
n	6.93	9.38	10.76	10.16	10.45	9.06	10.05	11.32	9.68
o	7.32	9.67	10.99	10.49	10.88	9.48	10.21	11.77	10.04
p	7.53	10.15	11.62	10.82	11.28	9.79	10.34	12.14	10.33
q	7.76	10.58	11.84	11.08	11.75	10.16	10.63		10.66
r	8.11	11.00	12.28	11.70	12.15	10.66	10.86		11.06
s	8.39	11.59	12.79	12.16	12.53	11.02	11.36		11.28
t	8.68	12.13	13.10	12.91	13.08	11.52	11.84		11.59
u	9.01	12.65	13.46		13.47	11.88	12.47		11.85
w	9.28	13.00			13.99	12.34			12.21
x	9.56					12.68			12.48
y	9.88					12.97			12.81
z	10.22					13.30			13.19
α	10.53					13.69			13.53
β	10.79								13.97
γ	11.00								14.28
δ									
ε									
ζ									

Continuation

Not	N ✓	H ✓	J ✓							
	R Pegasi	S Pegasi	R Aquarii	T Cass.	S Cass.	T Persae	R Aing	R Cyrie	R M2 Mg	
a	5.99	7.08	5.55	5.84	6.46	7.84	6.17	6.69	5.92	
b	6.38	7.30	5.84	6.47	7.00	8.10	6.61	7.10	6.21	
c	6.63	7.59	6.46	6.89	7.27	8.38	7.18	7.52	6.42	
d	7.00	7.81	6.92	7.24	7.72	8.68	7.72	8.02	6.70	
e	7.37	8.18	7.59	7.87	8.05	8.88	8.16	8.60	7.08	
f	7.72	8.44	8.07	8.17	8.38	9.07	8.82	9.02	7.48	
g	8.03	8.72	8.35	8.56	8.76	9.53	9.28	9.36	7.71	
h	8.45	8.96	8.66	8.98	9.20	9.92	9.72	9.74	8.18	
k	8.70	9.21	8.94	9.36	9.78	10.68	10.26	10.13	8.90	
l	9.07	9.50	9.22	9.81	10.06	11.33	10.68	10.52	8.80	
m	9.34	9.72	9.50	10.14	10.36	11.80	11.13	10.73	9.43	
n	9.64	9.90	9.81	10.52	10.78	12.44	11.48	11.15	9.76	
o	9.83	10.13	10.14	11.02	11.08	12.84	11.93	11.49	9.88	
p	10.08	10.59	10.54	11.32	11.48	13.29	12.36	11.88	10.46	
q	10.54	11.01	10.81	11.78	11.87	13.81	12.82	12.42	11.02	
r	10.89	11.33	11.14	12.43	12.28	14.35	13.26	12.80	11.48	
s	11.33	11.74	11.50	12.84	12.61	14.78	13.62	13.13	12.02	
t	11.67	12.08	11.77	13.30	12.95		13.96	13.46	12.53	
u	12.06	12.49	12.11	13.60	13.20		14.23	13.78	13.12	
w	12.42	12.94	12.47	13.93	13.56				13.50	
x	12.79	13.38	12.91		13.91				14.03	
y	13.09				14.33				14.50	
z									14.89	
a									15.17	
b										
c										
d										
e										
f										

<i>S. Mithras</i>	<i>S. Mithras</i>	<i>S. Boob.</i>	<i>R. Camel.</i>	<i>R. Diacorus</i>	<i>R. M. Min.</i>	<i>S. Cygni.</i>	<i>T. Aphi.</i>	<i>S. Aphi.</i>	<i>R. Cass.</i>	
6.42	6.65	7.40	7.87	6.88	8.25	7.92	4.88	7.40	4.00	a
6.96	7.02	7.91	8.45	7.19	8.62	8.36	5.52	7.83	4.41	b
7.30	7.30	8.39	9.02	7.44	8.90	8.78	6.04	8.15	4.84	c
7.58	7.52	8.78	9.50	7.66	9.26	9.16	6.68	8.68	5.17	d
8.00	7.86	9.12	9.82	8.02	9.62	9.48	7.12	9.04	5.73	e
8.34	8.50	9.67	10.32	8.28	9.96	9.97	7.69	9.37	6.26	f
8.44	8.83	10.18	10.80	8.56	10.30	10.26	8.18	9.84	6.70	g
9.17	9.22	10.60	11.22	9.06	10.68	10.66	8.12	10.22	7.17	h
9.65	9.74	11.12	11.80	9.40	11.04	11.08	8.78	10.70	7.50	k
10.40	10.09	11.57	12.20	9.80	11.50	11.36	9.18	11.04	8.16	l
10.75	10.65	12.04	12.66	10.16	11.84	11.69	9.65	11.58	8.80	m
11.26	11.08	12.50	12.86	10.56	12.18	12.15	10.10	11.95	9.40	n
11.73	11.58	12.94	13.23	10.97	12.54	12.43	10.50	12.44	9.93	o
12.09	11.94	13.29	13.56	11.59	12.93	12.85	11.06	12.75	10.50	p
12.26	12.54	13.59	13.86	12.01		13.23	11.56	13.12	10.98	q
12.38	13.12	13.94	14.07	12.52		13.51	11.96	13.66	11.36	r
12.67	13.55	14.33		12.85		13.88	12.39	14.02	11.78	s
12.84	13.98			13.33		14.31	12.71	14.38	12.12	t
12.99	14.67			13.84		14.68			12.40	u
13.17	15.17			14.43					12.81	v
13.42				15.02					13.13	x
13.60									13.48	y
									13.78	z
									14.10	a
									14.37	B

Magn. of Comp. Stars for Var. ~~copied from B. P. 92.~~

	B Persei	visual Alcor	visual V Cephei	U Camel.	P Persei	U Sagittae	number.
a	2.37	6.32	5.55	7.30	2.96	5.38	
b	2.20	6.74	6.18	7.22	3.10	5.97	
c	2.90	7.08	6.40	7.58	3.44	6.27	
d	2.96	7.16	7.28	7.68	3.93	6.77	
e	3.08		7.69			6.97	
f	3.49					7.52	
g	3.77					7.76	
h	4.05					8.01	
k						8.42	725
l						8.70	7.48
m						8.90	8.07
n						9.40	8.62
o							9.10
p							9.68
q							10.00
r							10.57
s							
t							
u							
v							
x							
y							
z							
aa							
ab							

Circular 7x Notations

Not.	U Cass.		R Trapp.		R Persei		S Oriónis		T Oriónis		Plan. Min.	
	Mag.	Mag.	Mag.	Mag.	Mag.	Mag.	Mag.	Mag.	Mag.	Mag.	Mag.	Mag.
a	3	2.1	2	6.4	2	7.3	1	7.7	6	7.2	1	2.3
b	5	2.4	4	7.2	3	7.6	3	2.2	2	2.1	3	2.4
c	7	2.7	7	7.7	4	2.4	4	2.4	13	2.7	5	2.6
d	14	9.0	2	7.2	5	2.5	2	2.8	19	9.0	6	2.7
e	22	9.3	10	2.1	9	2.9	20	9.5	26	9.3	2	2.8
f	31	9.6	13	2.4	11	9.1	21	9.6	35	9.6	11	9.0
g	40	9.9	15	2.8	17	9.3	24	9.2	45	10.2	15	9.3
h	51	10.2	17	9.1	21	9.5	26	10.0	54	10.7	20	9.4
k	54	10.4	20	9.4	23	9.2	34	10.5	60	10.2	25	9.6
l	55	10.5	26	9.7	31	10.1	35	10.6	66	11.2	29	9.9
m	58	10.6	29	10.2	33	10.4	36	10.7	68	11.5	33	10.1
n	60	10.7	33	10.6	34	10.5	37	10.9	72	12.3	32	10.4
o	63	10.8	34	10.9	35	10.6	40	11.2	74	13.7	47	10.7
p			36	11.2	36	10.8					51	10.8
q			39	11.2	40	11.1					56	11.0
r			40	12.1								
s			41	12.2								
t			44	12.9								
u			46	13.1								
w												
x												
y												
z												

Hagen Nos. and Hagen Magns.

	U Can Min		U Lupis		V Coronae		R Aquilae		S Sagittarii		U Persi	
Not	No.	Magn.	No.	Magn.	No.	Magn.	No.	Magn.	No.	Magn.	No.	Magn.
a	1	8.5	1	7.7	2	7.5	1	6.5	2	8.0	3	8.0
b	3	8.9	2	8.0	3	8.0	2	8.1	4	8.2	6	8.5
c	8	9.4	8	8.7	4	8.2	4	8.4	7	8.4	7	8.6
d	17	9.9	12	9.1	5	8.5	5	8.6	11	8.7	8	8.7
e	23	10.3	20	9.5	7	8.8	6	8.7	15	9.1	12	9.2
f	28	10.7	30	9.9	9	9.1	7	8.9	19	9.4	17	9.5
g	34	11.2	39	10.4	11	9.5	8	8.9	26	9.7	23	9.7
h	43	11.6	45	10.7	13	9.9	10	9.2	30	10.0	24	9.7
i	55	12.2	48	10.9	15	10.4	12	9.3	35	10.2	29	10.0
j			51	11.0	17	10.6	13	9.4	39	10.6	34	10.3
k			53	11.1	20	11.0	15	9.8	43	11.0	37	10.5
l			56	11.2	23	11.4	17	10.0	54	11.3	39	10.5
m					26	11.7	19	10.2	60	11.4	42	10.8
n					29	12.2	23	10.5			50	11.1
o							24	10.6			58	11.4
p							26	10.7			61	11.5
q							29	10.9			65	11.2
r							30	10.9			69	12.0
s							31	11.0			71	12.3
t							33	11.2				
u												
v												
w												
x												
y												
z												

Circular 74 Notations.

	Z Cygni		S Delph.		T Delph.		S Lacertae		R Lacertae		R Serpentina	
not	No.	Magn.	No.	Magn.	No.	Magn.	No.	Magn.	No.	Magn.	No.	Magn.
a	2	8.1	2	8.4	3	8.0	3	7.9	2	8.0	2	7.9
b	3	8.2	4	8.6	5	8.5	4	8.0	5	8.4	3	8.1
c	4	8.3	5	8.6	6	8.7	5	8.1	7	8.6	4	8.1
d	5	8.5	6	8.9	8	9.1	6	8.3	9	8.8	5	8.4
e	6	8.7	7	9.1	9	9.2	8	8.5	11	9.0	7	8.8
f	10	8.9	8	9.3	11	9.3	10	8.7	15	9.3	9	9.1
g	15	9.1	11	9.6	12	9.3	11	8.7	23	9.6	10	9.5
h	17	9.1	14	9.8	16	9.7	14	8.9	26	9.9	12	9.7
i	19	9.3	17	10.0	21	10.0	18	9.1	30	10.2	15	10.0
l	26	9.5	23	10.4	27	10.3	21	9.2	37	10.6	16	10.1
m	34	9.7	27	10.6	30	10.5	26	9.4	41	10.9	17	10.2
n	41	10.0	30	11.1	33	10.6	31	9.7	45	11.1	20	10.7
o	45	10.2	31	11.3	42	10.9	33	9.8	51	11.3	28	10.9
p	48	10.3	35	11.5			43	10.0	52	11.3		
q	51	10.4	42	11.8			50	10.8	54	11.4		
r	53	10.7	51	12.2			58	10.4	56	11.4		
s	54	10.8	56	12.4			63	10.5				
t	61	11.1					70	10.7				
u							77	11.0				
v												
w												
x												
y												
z												

Hazen Nos and Magns.

T Camelop.			Taurigae			T Camelop.			Taurigae			S Leonis			U Aquarii			T Capr.		
no.	no.	magn.	no.	no.	magn.	no.	no.	magn.	no.	no.	magn.	no.	no.	magn.	no.	no.	magn.	no.	no.	magn.
a	1	8.4	4	7.2		2	8.6		2	8.1		1	8.5		2	8.1		1	8.1	
b	3	8.7	5	8.0		4	8.7		5	8.4		3	8.8		5	8.9		3	8.6	
c	5	9.0	6	8.1		6	9.1		6	8.7		6	9.2		10	9.5		4	8.6	
d	8	9.2	7	8.3		10	9.4		7	8.8		9	9.6		15	10.1		5	8.8	
e	11	9.5	9	8.6		15	9.8		9	9.0		12	9.9		17	10.8		6	9.0	
f	12	9.7	12	8.8		16	10.0		14	9.2		14	10.2		19	11.2		7	9.3	
g	17	10.0	17	9.1		18	10.3		17	9.4		16	10.6		22	11.7		9	9.6	
h	20	10.3	22	9.3		20	10.7		24	9.6		18	11.0		25	12.4		13	9.9	
k	22	10.6	24	9.4		24	10.9		24	9.9		19	11.2					16	10.2	
l	25	10.8	37	9.8		31	11.1		34	10.1		21	11.5					23	10.7	
m	29	11.1	48	10.1		38	11.8		37	10.4		22	11.8					27	11.0	
n	30	11.4	55	10.5					41	10.6								30	11.4	
o	38	11.6	61	10.6					48	10.9										
p	43	11.9	76	11.0					52	11.3										
q	49	12.0	87	11.3					57	11.6										
r	53	12.3	91	11.6					60	12.0										
s	56	12.6	97	11.8																
t			105	12.1																
u			110	12.4																
w			112	12.6																
x			113	13.1																
y																				
z																				

No.	R Capric		Z Stage		R.R. Lihac		W Leonis		No.	Magn.		No.	Magn.		No.	Magn.	
	No.	Magn.	No.	Magn.	No.	Magn.	No.	Magn.		No.	Magn.		No.	Magn.		No.	Magn.
a	1	8.2	2	8.5	1	8.1	1	8.0									
b	3	8.6	4	8.8	4	8.5	2	8.2									
c	4	8.9	7	9.1	5	8.9	3	8.8									
d	5	9.2	15	9.5	6	9.0	5	9.1									
e	7	9.4	21	9.8	9	9.5	7	9.5									
f	9	9.8	25	9.9	12	9.7	9	9.7									
g	13	10.0	27	10.1	17	10.0	12	9.7									
h	14	10.0	29	10.3	18	10.1	18	10.1									
k	19	10.2	30	10.5	19	10.1	20	10.6									
l	22	10.5	35	10.7	21	10.2	22	10.7									
m	23	10.7			22	10.3	23	10.8									
n	27	10.9			25	10.7	24	10.9									
o	33	11.4					27	11.2									
p							31	11.6									
q																	
r																	
s																	
t																	

Circular 74 - II. Hagen No.

+ Rise. u Cass.		S' Rise		u Rise		u Persei		P Arietis		P Triang.		
St. No.	Magn.											
a	3	8.1	1	8.4	1	7.0	3	8.05	1	7.13	2	8.5
b	5	8.4	2	8.5	2	8.7	6	8.73	2	8.60	4	6.74
c	7	8.7	3	9.0	7	9.1	7	8.83	5	9.04	7	7.74
d	14	9.0	4	9.2	8	9.3	8	8.97	7	9.94	8	8.04
e	22	9.3	8	9.6	9	10.0	12	9.58	14	10.77	10	8.36
f	31	9.6	9	9.7	10	10.1	17	9.86	16	11.06	13	8.56
g	40	9.9	10	9.9	13	10.5	23	10.06	17	11.56	15	9.24
h	51	10.2	12	10.3	16	10.9	24	9.95	21	12.34	17	9.50
k	54	10.4	13	10.4	19	11.3	29	10.23	25	12.81	20	9.80
l	55	10.5	14	10.6	21	11.6	34	10.54		11.1	26	9.4
m	58	10.6	15	10.7	23	11.9	37	10.76		11.2	29	10.21
n	60	10.7	16	10.9			39	10.73		11.4	33	10.54
o	63	10.8	25	11.4			42	11.06		11.5	34	10.96
p							50	11.55		11.6	36	11.10
q							58	11.1		11.7	39	11.34
r							61	11.90		11.8	40	11.64
s							65	12.01		11.94	41	12.01
t							69	12.34		12.1	44	12.01
u							71	11.8		12.2	46	12.42
w								12.71		12.3		12.84
x								12.0				13.1
y								13.02				
z								12.3				
										43	12.14	

Procyonides

	Uarieto	R Perseid	Tauri	W Tauri	T Camelopard	V Tauri	R Quoniz
a	1 ^{8.20} 23	2 ^{7.06} 7.3	1 7.8	5 6.5	1 ^{7.54} 8.4	1 ^{7.30} 7.4	1 8.5
b	2 ^{8.80} 27	3 ^{7.40} 7.6	2 8.3	6 8.0	3 ^{8.38} 8.7	2 ^{7.54} 7.5	3 8.8
c	4 ^{9.18} 9.0	4 ^{8.81} 8.4	3 9.1	8 8.4	5 ^{9.01} 9.0	3 ^{8.94} 8.6	6 9.2
d	5 ^{9.74} 9.3	5 ^{9.00} 8.5	7 9.5	9 8.8	8 ^{9.56} 9.2	5 ^{9.22} 8.8	10 9.6
e	8 ^{10.34} 9.6	9 ^{9.52} 8.9	10 9.8	12 9.4	11 ^{10.06} 9.5	6 ^{9.42} 9.1	15 9.8
f	13 ^{10.90} 10.0	11 ^{9.89} 9.1	12 10.2	13 9.6	12 ^{10.52} 9.7	8 ^{9.86} 9.5	16 10.0
g	15 ^{11.54} 10.3	14 ^{10.10} 9.3	13 10.8	16 10.0	17 ^{10.96} 10.0	11 ^{9.97} 9.7	18 10.2
h	17 ^{12.57} 10.8	21 ^{10.36} 9.5	15 11.2	17 10.5	20 ^{10.88} 10.3	17 ^{10.88} 10.2	19 10.7
k	19 ^{12.98} 11.0	23 ^{10.84} 9.8		21 11.4	22 ^{11.47} 10.6	18 ^{11.14} 10.4	24 11.0
l	21 ^{13.14} 11.0	31 ^{11.34} 10.1		22 11.7	25 ^{11.64} 10.8	21 ^{11.54} 10.7	
m	22 ^{13.12} 11.1	33 ^{11.74} 10.4			29 ^{12.04} 11.1	22 ^{12.30} 11.1	
n	23 ^{13.34} 11.2	34 ^{11.72} 10.5			35 ^{12.10} 11.4	22 ^{12.46} 11.3	
o		35 ^{11.84} 10.6			38 ^{12.66} 11.6	24 ^{12.44} 11.3	
p		36 ^{11.97} 10.8			43 ^{12.72} 11.9	25 ^{12.50} 11.3	
q		40 ^{12.27} 11.1			49 ^{12.93} 12.0	27 ^{11.5} 11.5	
r					53 ^{13.16} 12.3	30 ^{12.45} 11.6	
s					56 ^{13.24} 12.6		
t							
u							
w							
x							
y							
z							

	V Orion	Naurigap	S Orion	N Camelopard	T Orion	Naurig	Naurig
a	2 2.2 4	6.96 7.4	1 7.7	2 2.6	6 7.2	2 7.4	1 7.2
f	4 2.5 5	7.61 7.0	3 8.2	4 2.7	2 2.1	5 2.4	4 2.1
c	6 2.9 6	8.05 8.1	4 2.4	6 2.9	13 2.7	6 2.7	7 2.2
d	9 3.2 7	8.20 8.3	2 2.8	10 3.4	19 3.0	7 2.8	11 3.5
e	13 3.5 9	8.61 8.6	20 3.5	15 3.8	26 3.3	9 3.0	14 3.7
f	18 3.8 12	8.92 8.9	21 3.6	16 3.7	35 3.6	14 3.2	15 3.9
g	21 4.0 17	9.34 9.1	24 3.8	18 4.0	45 4.2	17 3.4	17 4.1
h	24 4.4 22	9.58 9.3	26 4.0	20 4.7	57 4.7	24 3.6	19 4.3
k	27 4.7 28	9.80 9.4	34 4.5	24 4.9	60 4.8	28 3.9	21 4.5
l	33 5.2 37	10.17 9.8	35 4.6	31 5.1	66 5.2	34 4.1	22 4.8
m	38 5.7 48	10.52 10.1	36 4.7	32 5.2	68 5.5	37 4.4	24 4.9
n	40 6.0 55	11.08 10.5	37 4.9		72 6.3	41 4.6	27 5.2
o	43 6.4 61	11.14 10.6	40 5.0		74 6.7	48 4.9	30 5.4
p	45 6.6 76	11.53 11.0		33 6.6		52 5.3	31 5.4
q	87	12.00 11.3				57 5.6	35 5.6
r	91	12.06 11.6				60 5.8	
s	97	12.42 11.8					
t	105	12.51 12.1					
u	110	12.84 12.4					
w	112	13.01 12.6					
x	113	13.11 13.1					
y							
z							

	V Gemini	U Can Min	U Can Min	U Can Min	T Gem	U Puppis	U Can Min
a	1 7.60 7.9	1 2.31 2.3	1 8.5	2 7.7	1 7.30 7.6	1 7.7	1 7.2
b	3 2.24 2.3	3 2.65 2.4	3 8.9	5 8.0	3 7.86 7.9	2 2.0	2 7.9
c	5 2.08 2.8	5 2.61 2.6	8 9.4	7 2.3	5 2.59 2.5	2 2.7	3 2.5
d	7 2.39 2.2	6 2.94 2.7	17 9.9	9 2.7	7 2.87 2.7	12 2.1	5 2.7
e	14 2.75 2.5	8 2.82 2.8	23 10.3	14 2.1	9 2.66 2.2	20 2.5	6 2.9
f	16 2.92 2.6	11 2.36 2.0	28 10.7	15 2.6	12 2.86 2.5	30 2.9	9 2.2
g	21 10.45 10.0	15 2.86 2.3	34 11.2	19 10.0	16 10.56 9.9	39 10.4	12 2.3
h	28 11.19 10.5	20 10.15 9.4	43 11.6	28 10.4	19 11.24 10.4	45 10.7	14 2.5
k	34 11.52 10.8	25 10.36 9.6	55 12.2	37 10.8	24 11.91 10.7	47 10.9	16 2.7
l	37 11.69 10.9	29 10.59 9.9		45 11.2	31 12.44 11.2	51 11.0	22 10.0
m	47 12.30 11.5	33 10.79 10.1		53 11.5	38 12.92 11.6	53 11.1	24 10.1
n	53 12.48 11.8	38 11.32 10.4		58 12.0	41 13.09 11.7	56 11.2	28 10.5
o	58 12.66 12.1	47 12.09 10.7			45 13.14 12.0		30 10.8
p	63 12.76 12.4	51 12.34 10.8					31 11.0
q	66 12.93 12.5	56 12.46 11.0			4 2.40		34 11.1
r	69 13.06 13.1						35 11.2
s							36 11.8
t	39 12.02						39 12.3
u	68 13.17						40 12.6
w							
x							
y							
z							

	V Leonis		W Leonis		S Leonis		RR Virg.		Z Virg.		V Librae		u Bootis	
a	2	8.2	1	8.0	1	8.5	4	7.7	1	8.7	3	8.61	1	7.78
b	3	8.7	2	8.2	3	8.8	6	8.4	3	9.1	6	8.3	3	8.55
c	6	9.1	3	8.8	6	9.2	8	9.0	7	9.4	13	9.31	4	8.95
d	9	9.4	5	9.1	9	9.6	10	9.5	11	9.5	16	10.39	6	9.2
e	12	9.8	7	9.5	12	9.9	13	10.0	16	9.8	18	11.33	9	10.36
f	13	10.3	9	9.7	14	10.2	15	10.5	24	10.1	24	11.52	12	10.99
g	15	10.8	12	9.7	16	10.6	20	10.9	31	10.7	26	12.01	14	11.86
h	17	11.0	18	10.1	18	11.0	23	11.4	34	11.1	31	12.05	17	12.12
k	19	11.6	20	10.6	19	11.2	26	11.9	45	11.6		10.6	14	10.7
l	21	11.8	22	10.7	21	11.5	32	12.4				12.23	17	12.26
m	25	12.1	23	10.8	22	11.8						11.0	19	11.2
n	30	12.6	24	10.9									20	12.76
o	33	12.9	27	11.2										13.08
p			31	11.6										12.6
q														
r														
s														
t														
u														
w														
x														
y														
z														

	T Librae		X Librae		W Librae		U Librae		Z Librae		V Coronae		Relayantis	
a	2	7.41 7.4	2	8.4	1	8.5	1	8.1	1	7.00 7.0	2	7.5	2	7.9 7.44
b	3	8.3 8.97	5	8.9	2	8.8	2	8.5	3	7.51 7.5	3	8.0	3	8.1 7.44
c	5	10.13 9.1	8	9.4	3	9.1	3	8.8	5	10.50 9.3	4	8.2	4	8.1 7.44
d	10	10.72 9.6	14	9.8	8	9.5	5	9.1	9	11.04 9.8	5	8.5	5	8.4 7.40
e	18	11.04 10.3	21	10.2	15	9.8	7	9.4	13	11.68 10.1	7	8.8	7	8.8 7.25
f	20	11.54 10.7	25	10.8	19	10.1	10	9.9	16	11.94 10.5	9	9.1	9	9.1 10.04
g	24	12.05 11.5	33	11.3	22	10.4	16	10.2	23	12.40 11.0	11	9.5	10	9.5 10.28
h	28	12.38 12.2			27	10.7	19	10.7			13	9.9	12	9.7 10.68
k	32	12.87 12.9			37	11.1	21	11.0			15	10.4	15	10.0 11.34
l					40	11.5	27	11.5			17	10.6	16	10.1 11.32
m	23	11.69					30	11.7			20	11.0	17	10.2 11.58
n											23	11.4	20	10.7 12.20
o											26	11.7	21	10.9 12.38
p											29	12.2		
q														
r														
s														
t														
u														
w														
x														
y														
z														

	RR Lihao	Z Scorpi	X Scorpi	W Scorpi	T Oph	S Oph	R Aquilae
a	1 8.1	1 8.0	2 8.2	1 8.3	1 7.6	1 8.1	1 6.12 6.5
b	4 8.5	4 8.4	3 8.8	2 8.6	2 8.1	2 8.2	2 7.32 7.1
c	5 8.9	7 8.8	8 9.4	3 8.7	3 9.0	3 8.9	4 7.98 8.4
d	6 9.0	10 9.0	10 9.7	4 9.5	6 9.3	6 9.2	5 8.36 8.6
e	9 9.5	13 9.5	16 10.1	5 9.7	7 9.5	9 9.5	6 8.54 8.7
f	12 9.7	14 9.7	19 10.7	7 9.9	10 9.8	12 9.8	7 8.87 8.9
g	17 10.0	18 10.1	24 11.4	9 10.2	12 10.1	15 10.1	8 8.90 8.9
h	18 10.1	21 10.5	29 11.8	11 10.5	15 10.5	16 10.2	10 9.26 9.2
i	19 10.1	24 11.0	35 12.2	15 11.0	17 10.6	19 10.5	12 9.44 9.3
j	21 10.2	29 11.3	38 12.6	19 11.3	19 10.9	22 10.8	13 9.52 9.4
k	22 10.3	33 11.5		28 11.7	21 11.2	26 11.1	15 10.10 9.8
m	25 10.7	37 11.9		34 12.0		29 11.3	17 10.46 10.0
n				38 12.3		32 11.6	19 10.72 10.2
o						37 11.9	23 11.16 10.5
p						39 12.2	24 11.43 10.6
q						41 12.5	26 11.58 10.7
r							29 11.70 10.9
s							30 11.57 10.9
t							31 11.80 11.0
u							33 12.16 11.2
v							22 10.96
w							
x							
y							
z							

	T Sagittarii		B Sagittarii		Z Sagittarii		Z Cygni		R Capricorn		W Capricorn		S' Delphi	
a	1	6.8	2	7.16 8.0	2	8.5	2	8.1	1	8.2	1	7.9	2	8.4
b	2	7.9	4	7.58 8.2	4	8.8	3	8.2	3	8.6	2	8.4	4	8.6
c	3	7.9	7	8.20 8.4	7	9.1	4	8.3	4	8.9	3	8.5	5	8.6
d	4	8.1	11	8.46 8.7	15	9.5	5	8.5	5	9.2	5	9.0	6	8.9
e	7	8.5	15	9.1 9.46	21	9.8	6	8.7	7	9.4	9	9.4	7	9.1
f	10	8.8	19	10.02 9.4	25	9.9	10	8.9	9	9.8	18	9.9	8	9.3
g	17	9.4	26	10.24 9.7	27	10.1	15	9.1	13	10.0	26	10.3	11	9.6
h	28	9.2	30	10.79 10.0	29	10.3	17	9.1	14	10.0	27	10.5	14	9.8
k	36	10.1	35	11.14 10.2	30	10.5	19	9.3	19	10.2	29	10.7	17	10.0
l	39	10.4	39	11.75 10.6	35	10.7	26	9.5	22	10.5	34	11.1	23	10.4
m	47	10.9	43	12.22 11.0			34	9.7	23	10.7	37	11.5	27	10.6
n	62	11.5	54	12.67 11.3			41	10.0	27	10.9			30	11.1
o	65	12.0	60	12.94 11.4			45	10.2	33	11.4			31	11.3
p							48	10.3					35	11.5
q							51	10.4					42	11.8
r							53	10.7					51	12.2
s							54	10.8					56	12.4
t							61	11.1						
u														
w														
x														
y														
z														

	T Decfl.	U Capric	V Capric	X Capric	T Capric	Y Capric	U Aquarii
a	3 ^{7.86} 8.0	1 ^{8.74} 8.6	1 7.4	2 ^{7.74} 7.9	1 8.1	1 7.9	2 ^{8.36} 8.1
b	5 ^{8.48} 8.5	3 ^{9.06} 8.8	2 7.6	4 ^{8.86} 8.5	3 8.6	2 8.6	5 ^{9.40} 8.9
c	6 ^{9.02} 8.7	4 ^{9.18} 8.8	3 8.4	7 ^{9.84} 9.1	4 8.6	4 8.9	10 ^{10.51} 9.5
d	8 ^{9.54} 9.1	7 ^{9.86} 9.2	4 8.9	12 ^{10.44} 9.6	5 8.8	5 9.0	15 ^{11.20} 10.1
e	9 ^{9.68} 9.2	8 ^{9.64} 9.2	5 9.2	20 ^{11.32} 10.1	6 9.0	8 9.1	17 ^{11.96} 10.8
f	11 ^{9.80} 9.3	14 ^{10.68} 9.5	6 9.3	24 ^{11.70} 10.6	7 9.3	9 9.1	19 ^{12.18} 11.2
g	12 ^{10.02} 9.3	17 ^{10.98} 9.8	9 9.6	28 ^{12.12} 11.2	9 9.6	15 9.4	22 ^{12.68} 11.7
h	16 ^{10.58} 9.7	19 ^{11.46} 10.0	11 9.8	29 ^{12.36} 11.5	13 9.9	18 9.7	25 ^{12.94} 12.4
i	21 ^{10.90} 10.0	24 ^{12.22} 10.4	14 10.2		16 10.2	22 9.9	
j	27 ^{11.60} 10.3	29 ^{12.72} 10.7	16 10.2		23 10.7	25 10.2	
k	30 ^{12.04} 10.5		18 10.3		27 11.0	28 10.4	
l	33 ^{12.17} 10.6		19 10.4		30 11.4	41 10.8	
m	42 ^{12.49} 10.9						

	Therzi		SLacintas		RLacintas		VCeti	
a	1	A.6	3	2.10 7.9	2	2.11 2.0	1	7.6
b	2	A.6	4	2.10 2.0	5	2.46 A.4	2	A.1
c	5	A.8	5	2.21 A.1	7	2.25 A.6	3	A.5
d	6	9.0	6	2.47 A.3	9	2.08 A.8	4	9.0
e	8	9.2	8	2.82 A.5	11	2.32 9.0	5	9.4
f	11	9.4	10	2.12 2.7	15	2.68 9.3	9	9.8
g	14	9.6	11	2.90 2.7	23	10.00 9.6	16	10.2
h	17	9.8	14	2.48 A.9	26	10.37 9.9	19	10.5
k	19	10.2	18	2.60 9.1	30	10.75 10.2	23	10.7
l	20	10.2	21	2.26 9.2	37	11.32 10.6	24	10.7
m	23	10.5	26	2.98 9.4	41	11.62 10.9	25	10.9
n	25	10.7	31	10.44 9.7	45	11.85 11.1		
o	27	10.9	33	10.45 9.8	51	12.26 11.3		
p	41	11.7	43	10.98 10.0	52	12.32 11.3		
q			50	11.13 10.2	54	12.44 11.4		
v			58	11.50 10.4	56	12.41 11.4		
			63	11.64 10.5				
			70	12.04 10.7				
			77	12.44 11.0				

Cir 74-II Notations not on Hagen charts.

Notations	Variable T Arietis		W Persei		R Leporis		V Monoc.		No.
	Dim. No.	Dim. Magn.	Dim. No.	Dim. Magn.	Dim. No.	Dim. Magn.	Dim. No.	Dim. Magn.	
Cir 74-II									
a	+16.342	7.8	+56.718	6.5	-15.904	7.7	-2.1579	7.8	
b	+16.345	8.6	+56.732	8.0	-15.910	7.7	-1.1207	8.0	
c	+16.346	8.7	+55.709	8.3	-15.914	8.4	-1.1215	8.5	
d	+16.348	8.8	+56.728	8.5	-15.927	8.5	-1.1212	8.7	
e	+16.353	8.8	+56.721	8.9	-15.916	9.0	-2.1583	8.8	
f	+17.440	8.9	+56.723	9.0	-15.917	9.0	-2.1589	9.2	
g	+17.439	9.3	+56.724	9.4	-15.922	9.3	-2.1602	9.3	
h	+17.429	9.4	+56.730	9.5	-15.919	9.4	-2.1567	9.4	
k	+16.347	9.5	+56.715	9.4	-15.911	9.6	-2.1582	9.5	
l	+16.350	9.5	+56.722	9.5	-15.918	9.7	-2.1584	9.5	
m			+56.726	9.5					
n									

Ref.	R Can Min.		T Cancri		V Hyolae		V Bootis	
Ci 74-11	Dr No.	Dr Mag.	Dr No.	Dr Mag.	Dr No.	Dr Mag.	Dr No.	Dr Mag.
a	+9.1550	2.0	+20.2244	2.0	-20.3272	7.8	+40.2793	7.8
b	+10.1444	2.2	+19.2019	2.2	-20.3280	8.2	+40.2792	8.2
c	+10.1429	2.3	+20.2233	2.5	-20.3280	8.6	+39.2790	8.5
d	+10.1416	2.5	+20.2234	2.5	-20.3297	8.6	+39.2564	8.5
e	+10.1425	2.8	+20.2249	9.1	-20.3277	8.9	+39.2773	8.8
f	+10.1427	9.0	+20.2246	9.2	-20.3287	9.1	+39.2771	8.9
g	+10.1433	9.3	+20.2247	9.3	-20.3296	9.3	+39.2556	9.4
h	+10.1423	9.4	+19.2138	9.4	-20.3293	9.4	+39.2772	9.4
k	+10.1424	9.5	+20.2242	9.5	-20.3286	9.5	+39.2767	9.5
l	+10.1435	9.5	+20.2245	9.5	-20.3282	9.6	+39.2775	9.5
m					-20.3281	9.9		
n								

Ci 74 - II

Notations	RR Herculis		V Ophiuchi		T Draconis		X Ophiuchi	
Ci 74-II	Star No.	Magn.	Star No.	Magn.	Star No.	Magn.	Star No.	Magn.
a	+51.2050	8.0	-11.4635	8.2	+58.1776	7.8	+8.3791	7.7
b	+51.2048	8.1	-11.4154	8.3	+57.1832	8.0	+8.3805	8.0
c	+51.2051	8.3	-12.4527	8.3	+58.1772	8.5	+9.3794	8.4
d	+51.2060	8.5	-12.4575	8.6	+57.1870	8.5	+9.3789	8.5
e	+50.2250	8.8	-12.4501	8.8	+59.1866	8.8	+8.3781	9.1
f	+50.2248	9.2	-12.4525	8.9	+57.1831	9.0	+8.3773	9.2
g	+50.2255	9.3	-12.4508	9.0	+58.1774	9.3	+8.3779	9.4
h	+50.2254	9.4	-12.4499	9.3	+58.1773	9.4	+8.3793	9.4
k	+50.2252	9.5	-12.4503	9.7	+58.1771	9.5	+8.3788	9.5
l	+50.2253	9.5	-12.4514	10.1	+58.1775	9.5	+8.3783	9.5
m								
n								
o								
p								

T Sagittae			RT Cygni.			N Arginulae			RW Cygni.		
Star	Star		Star	Star		Star	Star		Star	Star	
No.	Magn.		No.	Magn.		No.	Magn.		No.	Magn.	
a	+17.3949	7.9	+48.2941	8.0		+15.4071	7.8		+39.4176	8.0	
b	+17.3925	8.3	+48.2943	8.0		+15.4063	8.2		+39.4210	8.0.	
c	+17.3930	8.6	+48.2950	8.6		+15.4066	8.5		+39.4213	8.4	
d	+17.3934	8.7	+48.2949	8.7		+15.4084	8.5		+39.4195	8.5	
e	+17.3938	9.0	+48.2932	9.0		+15.4082	8.8		+39.4206	8.8	
f	+17.3935	9.1	+48.2938	9.2		+15.4075	9.2		+39.4209	8.9	
g	+17.3937	9.4	+48.2940	9.3		+15.4077	9.4		+39.4189	9.3	
h	+17.3942	9.4	+48.2945	9.4		+15.4079	9.4		+39.4207	9.4	
k	+17.3939	9.5	+48.2936	9.5		+15.4083	9.5		+39.4205	9.5	
l	+17.3941	9.5	+48.2937	9.5		+15.4086	9.5		+39.4211	9.5	
m											
n											
o											
p											

Cir 74 - II

Not.	Vagarii		RV Cygni		W Pegasi	
	Dir	Mag.	Dir	Mag.	Dir	Mag.
Cir 74-II	IVo.	Mag.	IVo.	Mag.	IVo.	Mag.
a	+1.4374	7.7	+54.2501	7.8	+25.4917	8.0
b	+1.4363	7.8	+53.2694	8.2	+24.4752	8.0
c	+1.4370	8.0	+53.2673	8.4	+24.4764	8.3
d	+2.4242	8.5	+54.2598	8.5	+25.4907	8.6
e	+1.4362	9.0	+53.2687	8.8	+25.4922	8.8
f	+1.4361	9.0	+53.2683	8.9	+25.4913	9.2
g	+1.4357	9.3	+53.2667	9.3	+25.4915	9.3
h	+1.4365	9.3	+53.2686	9.3	+25.4918	9.4
k	+1.4358	9.5	+53.2682	9.5	+25.4919	9.5
l	+1.4360	9.5	+53.2685	9.5	+25.4921	9.5
m						
n						
o						

Notations selected by Campbell

Notation Campbell's	V Androm Star No.	Magn.	U Androm Star No.	Magn.	Y Androm Star No.	Magn.	X Cassiope Star No.	Magn.	W Aurigae Star No.	Magn.
a	+34.115	8.0	+39.292	8.3	+38.31A	8.8	+58.319	9.0	+36.1140	8.8
b	+34.121	8.5	+40.252	8.5	+38.313	8.9	+58.334	9.2	+36.1141	8.9
c	+34.116	8.8	+40.256	9.2	+38.309	9.2	+58.339	9.3	+36.1144	9.2
d	+34.126	9.1	+39.286	9.5	+38.311	9.4	+58.337	9.5	+36.1148	9.5
e	+34.120	9.0			+38.306	9.5				
f	+34.130	9.4								
g										
h										
k										
l										
m										
n										
o										
p										
q										
r										
s										
t										

June 1904 for Extra Variables to be observed

Notation	RR Tauri		Z Tauri		X Aurigae		R Monoc		St Lyncis	
Campbell's	Star No.	Magn.	Star No.	Magn.	Star No.	Magn.	Star No.	Magn.	Star No.	Magn.
a	+26.876	8.3	+15.976	8.4	+49.1474	8.5	not yet selected chart made		+58.962	8.5
b	+26.859	8.9	+15.957	8.7	+49.1467	8.0			+58.959	8.8
c	+26.885	9.2	+15.949	9.0	+50.1275	8.5			+58.961	9.0
d	+26.887	9.5	+15.969	9.4	+50.1281	8.7			+58.964	9.3
e	+26.891	9.5			+50.1274	9.0			+58.960	9.0
f					+50.1282	9.4			+58.965	9.4
g					+50.1283	9.5				
h										
k										
l										
m										
n										
o										
p										
q										
r										
s										
t										

Not. Coi.	X Gemin.		Y Monoc.		Z Hydrae		T Can. Ven.		RU Virg.	
	DM No.	Magn.	DM No.	Magn.	DM No.	Magn.	DM No.	Magn.	DM No.	Magn.
a	+30.1318	7.0	+11.1356	8.3	-14.2904	8.0	+32.2255	8.4	+5.2682	8.2
b	+30.1332	7.8	+11.1363	8.8	-14.2897	8.5	+31.2373	8.7	+4.2647	8.4
c	+30.1331	8.2	+11.1387	9.8	-14.2895	8.6	+31.2371	8.9	+4.2648	8.8
d	+30.1336	8.7	+11.1367	9.5	-14.2888	9.0	+31.2374	9.1	+4.2656	9.2
e	+30.1325	9.0			-14.2894	9.2	+32.2253	9.4	+4.2658	9.5
f	+30.1324	9.3							+4.2652	9.5
g										
h										
i										
j										
k										
l										
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Not.	RT Lihae		R Lihae		RU Her.		W Cep.		γ Scorpii	
Co.	DM No.	Magn.	DM No.	Magn.	DM No.	Magn.	DM No.	Magn.	DM No.	Magn.
a	-18.3972	7.5	Chart made but the selection not made		+25.3039	7.1	-6.4399	8.0	Chart made but not the selection	
b	-18.4259	8.3			+26.2791	7.6	-7.4255	8.5		
c	-18.3969	8.7			+25.3031	8.3	-7.4258	8.7		
d	-18.3974	8.9			+25.3036	8.4	-7.4295	8.9		
e	-18.3980	9.1			+25.3042	8.5	-7.4272	9.2		
f	-18.3977	9.5			+25.3044	8.8	-7.4259	9.6		
g	-18.3976	9.8			+25.3046	9.0	-7.4260	10.0		
h					+25.3038	9.5				
i										
j										
k										
l										
m										
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N.H. of Campbell	R.A. Her.		R.A. Her.		X Drac.		T Perseus		Z Aquilae	
	Dir. No.	Magn.	Dir. No.	Magn.	Dir. No.	Magn.	Dir. No.	Magn.	Dir. No.	Magn.
a	+6.3244	8.0	+23.3091	7.7	Chart made		Chart made		6.5433	8.0
b	+7.3207	8.4	+23.3078	8.0	but not the		but not the		6.5421	8.5
c	+6.3245	8.7	+23.3092	8.3	selection.		selection.		6.5431	8.7
d	+7.3201	9.0	+22.3130	8.8					6.5427	9.0
e	+7.3200	9.4	+23.3094	9.1					6.5420	9.2
f	+7.3203	9.5	+23.3086	9.5					6.5417	9.4
g									6.5416	9.5
h										
i										
j										
k										
l										
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x										
y										
z										

Not.	RT Capric		RU Capric		Y Aquarii		KZ Cygni		TN Cygni	
Camphel	Dim. No.	Magn.	Dim. No.	Magn.	Dim. No.	Magn.	Dim. No.	Magn.	Dim. No.	Magn.
a	-21.5647	8.0	Chart made		-5.5372	8.4	Chart made		Chart made	
b	-21.5660	8.4	but not		-5.5364	8.7	but not the		but not the	
c	-21.5655	8.6	the selection.		-5.5355	8.8	selection.		selection.	
d	-21.5674	9.0			-5.5352	8.9				
e	-21.5673	9.2								
f	-21.5670	10								
g										
h										
k										
l										
m										
n										
o										
p										
q										
r										
s										
t										
u										
v										
w										
x										
y										
z										

Not. of Campbell	X Cephei		Z Capric.		RS Aquarii		RR Aquarii		RT Aquarii		No. B
	Dist. No.	Magn.	Dist. No.	Magn.	Dist. No.	Magn.	Dist. No.	Magn.	Dist. No.	Magn.	
a	chart made		chart made		chart made		-3.5160	7.0	-22.5904	7.5	
b	but not the		but not		but not		-3.5140	7.4	-22.5916	8.0	
c	selection		the selection		the selection		-2.5476	7.6	-22.5910	8.5	
d							-2.5488	8.3	-22.5903	9.0	
e							-3.5155	8.3			
f							-3.5156	9.1			
g											
h											
i											
j											
k											
l											
m											
n											
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s											
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u											
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x											
y											
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Not. of Campbell	Vassiof Sun No. Magn.	Weto Sun No. Magn.	Sun No.	Magn.	Sun No.	Magn.	Sun No.	Magn.
a	+58.2546 6.5	-15.6532 8.3						
b	+58.2547 7.3	-15.6529 8.5						
c	+59.2660 8.1	-15.6529 9.1						
d	+59.2673 8.5							
e	+58.2564 8.6							
f								
g								
h								

Photographic Selections.

Notations	X Ceti		T Eridani		W Eridani		X Monoc.		V Can. Min.		- Can. Min.	
	Dist. No.	Magn.	Dist. No.	Magn.	Dist. No.	Magn.	Dist. No.	Magn.	Dist. No.	Magn.	Dist. No.	Magn.
a												
b												
c												
d												
e												
f												
g												
h												
k												
l												
m												
n												

