KG
11366
v.584

1874phmo..proj..130R

Zone Observations & Reductions

C 22

From April 2, 1874 to June 10, 1874

Charles W. Sever, University Bookstore, Cambridge.

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622 11h 54m 36s.8 52° 30' May 12-1874

C 21

From Apr 2 1874 to Jan 10 1874

For constants of i see 620

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C 21

From Apr 2 1874 to Jan 10 1874

For constants of i in b 20

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | $\delta'$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |

WJK is the observer and I.F.M the recorder throughout this work.

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292

Date$_1$ = Apr. 2, 1874 Observer W. A. R
$\eta$ = +.08 Recorder J. F. M.

293

Date$_2$ = Apr 6, 1874 Observer
$\eta$ = +.084 Recorder

2

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 41 | 35 | 49 49 | 8.2 | 41m 18.4 | 41m 36.1 | 39.3 | 42.6 | 48.8 | 49.0 | 41m | 42.56 | Add +.015 to (A II + m) for Apr 2 Dr has been added to sum of constants and to final R.A. | |
| 40 | 26.6 | 49 52.7 | 8.2 | 10.8 | | | | | | +.015 | + 6.4 x 3 | | |
| | | | | 18.3 | | | | | + 6.50 | +01 | + 9 | | |
| | | | | 15.8 | | | | | | | − 2 | | |
| | | | | | | | | | | 41 | 49.04 | | |
| | | | | | | | | | | | − 1.47 | | |
| | | | | | | | | | | 41 | 47.57 | 60 | |
| | | | 8.6 | 42 32.8 | 42 50.5 | 53.9 | 57.1 | 0.3 | 3.6 | 42m | 57.08 | Add +.015 to (A II + m) for Apr 6 Dr has been added to sum of constants and to final R.A. | |
| | | | | 35.2 | | | | | | +.015 | + 9.6 x 4 | | |
| | | | | 38.4 | | | | | + 9.71 | +01 | + 9 | | |
| | | | | 35.5 | | | | | | | − 2 | | |
| | | | | | | | | | | 43 | 67.8 | | |
| | | | | | | | | | | | 1.39 | | |
| | | | | | | | | | | 43 | 46.47 | +.541 | |
| 43 | 38 | 50.51 | 9.0 | 43 48.6 | 43 58.6 | 1.8 | 5.0 | 8.4 | 11.6 | 44 | 50.8 | | |
| 42 | 29.1 | 50 54.5 | 8.9 | 47.2 | | | | | | | + 6.4 x 3 | | |
| | | | | 53.3 | | | | | | | + .10 | | |
| | | | | 54.7 | | | | | + 6.51 | +02 | − 2 | | |
| | | | | | | | | | | 44 | 11.57 | | |
| | | | | | | | | | | | − 1.50 | | |
| | | | | | | | | | | 44 | 10.09 | 11 | |
| | | | 8.8 | 43 34.2 | 43 55.1 | 58.3 | 1.6 | 4.9 | 8.3 | 44 | 1.64 | | |
| | | | | 38.0 | | | | | | | + 9.6 x 4 | | |
| | | | | 46.0 | | | | | | | + .10 | | |
| | | | | 37.7 | | | | | + 9.72 | +02 | − 2 | | |
| | | | | | | | | | | 44 | 11.35 | | |
| | | | | | | | | | | | − 1.41 | | |
| | | | | | | | | | | 44 | 9.98 | 1 | |
| 44 | 15 | 50.51 | 9.3 | 44 21.1 | 44 16.3 | 19.7 | 23.0 | 26.1 | 29.5 | 44 | 22.92 | | |
| 43 | 6.7 | 50 54.0 | 9.3 | | | | | | | | + 6.4 x 3 | | |
| | | | | | | | | | | | + .10 | | |
| | | | | | | | | | + 6.51 | +01 | − 2 | | |
| | | | | | | | | | | 44 | 29.41 | | |
| | | | | | | | | | | | − 1.50 | | |
| | | | | | | | | | | 44 | 27.98 | 4 | |
| | | | 8.7 | 44 2 18.4 | 44 12.8 | 16.1 | 19.3 | 22.8 | 26.0 | 44 | 19.40 | | |
| | | | 9.1 | 21.6 | | | | | | | + 9.6 x 4 | | |
| | | | | (V. 24.7) | | | | | | | + .10 | | |
| | | | | 21.6 | | | | | + 9.72 | +01 | − 2 | | |
| | | | | | | | | | | 44 | 29.11 | | |
| | | | | | | | | | | | − 1.40 | | |
| | | | | | | | | | | 44 | 27.72 | 3 | |
| 45 | 38 | 53.26 | 7.8 | 45 18.8 | 45 21.7 | 25.2 | 28.7 | 42.2 | 45.7 | 45 | 38.70 | | |
| 44 | 22.1 | 53 29.5 | 8.0 | 21.2 | | | | | | | + 6.4 x 3 | | |
| | | | | 24.5 | | | | | | | + .10 | | |
| | | | | 21.5 | | | | | + 6.50 | +02 | − 3 | | |
| | | | | | | | | | | 45 | 45.19 | | |
| | | | | | | | | | | | − 1.61 | | |
| | | | | | | | | | | 45 | 43.58 | 61 | |
| | | | 7.3 | 45 16.0 | 45 28.4 | 31.9 | 35.1 | 38.8 | 42.1 | 45 | 35.26 | | |
| | | | | 19.5 | | | | | | | + 9.6 x 4 | | |
| | | | | 22.7 | | | | | | | + .10 | | |
| | | | | 19.4 | | | | | + 9.71 | +02 | − 3 | | |
| | | | | | | | | | | 45 | 44.96 | | |
| | | | | | | | | | | | − 1.51 | | |
| | | | | | | | | | | 45 | 43.46 | 8 | |
| 47 | 08 | 54.43 | 9.2 | 47 10 | 47 9.9 | 13.6 | 17.2 | 20.5 | 24.3 | 47 | 14.16 | | |
| 45 | 52.3 | 54 46.0 | 9.0 | 3.9 | | | | | | | + 6.4 x 3 | | |
| | | | | 8.8 | | | | | | | + 11 | | |
| | | | | 4.6 | | | | | + 6.61 | +01 | − 3 | | |
| | | | | | | | | | | 47 | 23.66 | | |
| | | | | | | | | | | | − 1.68 | | |
| | | | | | | | | | | 47 | 21.98 | 22.00 | |
| | | | 8.9 | 46 56.5 | 47 6.6 | 10.1 | 13.8 | 17.4 | 20.8 | 47 | 13.67 | 4 | |
| | | | | 0.5 | | | | | | | + 9.6 x 4 | | |
| | | | | 47 4.0 | | | | | | | + 11 | | |
| | | | | 0.3 | | | | | + 9.72 | +01 | − 3 | | |
| | | | | | | | | | | 47 | 23.39 | | |
| | | | | | | | | | | | − 1.58 | | |
| | | | | | | | | | | 47 | 21.81 | 89 | |

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Runs  apr. 2  apr. 6  $\varphi = 42^\circ\ 22'\ 48''.35$

$R_{eq}$ = −7 29.06 −7 28.97 (+.00 −.01)  $\varphi - 2$

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +26.8 | 1 13.1 | 11.4 | 26 | 12.25 | 49 56 36.10 | | | 25 | 49 48 44.41 | |
| | 1.42813 | | | | | 49 7.04 | | | | − .20 | +8.32 |
| d | 9.80972 | | | | | +22.63 | 48 44.41 | | | + .00 | |
| | 1.35463 m | | | | | | 49 29.67 | | | + 8.02 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .50 | |
| | | | | | | | | | | −13.40 | |
| +4.28 $\delta_1$ | | 41 37.88 | | 48 26.3 | | | | | | 48 39.33 | |
| | +21.6 | 0 22.0 | 21.8 | 20 | 21.90 | 50 2 26.45 | | | 20 | 54 39.28 | |
| | 1.33445 | | | | | 49 54 57.48 | | | | − .13 | +10.33 |
| d | 4.80882 | | | | | +16.20 | 54 39.28 | | | + .00 | |
| | 1.26005 m | | | | | | 55 15.68 | | | + 7.96 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .50 | |
| | | | | | | | | | | −13.60 | |
| $\delta_2$ | | | | | | | | | | 54 36.01 | |
| | +13.4 | 3 7.9 | 5.1 | 23 | 6.50 | 50 58 41.85 | | | 20 | 50 [illegible] 1.72 | |
| | 1.12710 | | | | | 51 12.79 | | | | − .5 | +9.44 |
| d | 9.80012 | | | | | +11.07 | 1.72 | | | − .00 | |
| | 1.04400 m | | | | | | 52 23.86 | | | + 8.95 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .54 | |
| | | | | | | | | | | −13.30 | |
| +4.31 $\delta_1$ | | 44 14.42 | | 50 44.7 | | 5059 | | | | 57.86 | |
| −13.17 | | | | | | | | | | | |
| | +23.9 | 2 12.0 | 11.7 | 23 | 11.85 | 51 0 36.50 | | | 20 | 51 47.80 | |
| | 1.37840 | | | | | 50 51 7.53 | | | | − .15 | +9.34 |
| d | 9.79996 | | | | | +14.73 | 52 47.80 | | | − .2 | |
| | 1.29514 m | | | | | | 53 27.26 | | | + 8.90 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .59 | |
| | | | | | | | | | | −13.80 | |
| +4.31 $\delta_2$ | | 44 14.28 | | 50 30.2 | | | | | | 51 43.32 | |
| −13.17 | | | | | | | | | | | |
| | + 1.8 | 0 11.9 | 8.6 | 25 | 10.25 | 50 51 38.10 | | | 25 | 50 50 7.55 | |
| | 0.25527 | | | | | 50 9.04 | | | | − .00 | +9.45 |
| d | 9.80043 | | | | | + 1.49 | 50 7.55 | | | + .00 | |
| | 0.17248 m | | | | | | 50 10.59 | | | + 8.91 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .54 | |
| | | | | | | | | | | −13.30 | |
| +4.31 $\delta_1$ | | 44 32.25 | | 49 50.5 / 50 16.5 | | | | | | 50 38.70 | 3.70 |
| −13.19 | | | | | | | | | | | |
| | −2.2 | 0 11.0 | 10.5 | 25 | 10.45 | 50 57 38.60 | | | 25 20 | 10.45 | |
| | 0.34242 | 3 55.4 | 56.0 | 23 | 55.70 | 50 58 47.65 | | | | − .00 | +9.43 |
| d | 9.80043 | | | | | 50 9.63 | 50 10.45 | | | + .00 | |
| | 0.25963 m | | | | | 51 18.68 | | | | + 8.85 | |
| | 9.80027 | | | | | + 1.82 | | | | + .58 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | 50 6.84 | | | −13.80 | |
| +4.31 $\delta_2$ | | 44 32.04 | | 49 57.9 | | | | | | 50 7.08 | |
| −13.19 | | | | | | | | | | | |
| | + 17.2 | 4 14.1 | 8.9 | 49 | 11.50 | 53 38 36.85 | | | 45 | 53 25 54.38 | |
| | 1.23553 | | | | | 26 7.79 | | | | − .8 | +12.35 |
| d | 9.77507 | | | | | +18.41 | 25 54.38 | | | + 0 | |
| | 1.12738 m | | | | | | 26 21.20 | | | + 11.71 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .72 | |
| | | | | | | | | | | −14.00 | |
| +4.42 $\delta_1$ | | 45 48.03 | | 25 39.4 | | | | | | 25 52.78 | |
| −13.28 | | | | | | | | | | | |
| | +15.9 | 4 12.8 | 11.9 | 49 | 12.35 | 53 33 36.00 | | | 45 | 54.63 | |
| | 1.20140 | | | | | 26 7.03 | | | | − .7 | +12.24 |
| d | 9.77507 | | | | | +12.40 | 25 54.63 | | | − .4 | |
| | 1.09325 m | | | | | | 26 19.43 | | | +11.63 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .72 | |
| | | | | | | | | | | −14.60 | |
| +4.42 $\delta_2$ | | 45 47.90 | | 25 39.0 | | | | | | 25 52.27 | |
| −13.28 | | | | | | | | | | | |
| | + 12.6 | 2 50.7 | 46.1 | 32 | 48.40 | 54 49 59.95 | | | 30 | 54 42 21.36 | |
| | 1.10037 | | | | | 42 30.89 | | | | − .5 | +13.681 |
| d | 9.76182 | | | | | + 9.53 | 21.36 | | | + .0 | |
| | 0.97897 m | | | | | | 42 40.42 | | | + 13.08 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .78 | |
| +4.48 | | | | | | | | | | −14.40 | |
| $\delta_1$ −13.38 | | 47 26.48 | | 42 7.4 | | | | | | 42 20.77 | |
| | +13.4 | 2 46.9 | 45.9 | 32 | 46.40 | 54 50 1.95 | | | 30 | 22.85 | |
| | 1.12710 | | | | | 42 32.98 | | | | − .5 | +13.70 |
| d | 9.76182 | | | | | + 10.13 | 22.85 | | | − .3 | |
| | 1.00570 m | | | | | | 42 43.11 | | | + 13.00 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .78 | |
| +4.48 | | | | 8.2 | | | | | | −15.00 | |
| $\delta_2$ −13.38 | | 47 26.37 | | 42 7.8 | | | | | | 42 21.56 | |

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Date$_1$ = Apr. 2, 1874 (272) Observer W. A. R. Recorder J. H. M.

Date$_2$ = Apr. 6. 1874 (293) Observer Recorder

4

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| h | m s | ° ′ ″ | | m s | m s | s | s | s | m s | m | m s | | |
| | 48 42.26 | 53 11.13 | 9.7 | 48 24.3 | 48 38.6 | 42.0 | 45.5 | 49.0 | 52.3 | 48 | 45.48 | | |
| | 47 | 53 13.8 | 9.4 | 27.4 | | | | | | | + 6.42 3 | | |
| | | | | 30.8 | | | | | | | + .10 | | |
| | | | | 27.5 | | | | | | | − 3 | | |
| | κ | | | | | | | | + 6.50 +02 | 48 | 51.97 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | −1.63 | | |
| | $\alpha_1$ | | | | | | | | | 48 | 50.48 37 | | +4. −13 |
| | | | 9.4 | 48 13.5 | 48 35.0 | 38.6 | 42.0 | 45.5 | 49.0 | 48 | 42.02 | | |
| | | | | 18.4 | | | | | | | + 9.63 4 | | |
| | κ | | | 21.0 | | | | | | | + .10 | | |
| | | | | 17.6 | | | | | | | − 3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | + 9.71 +02 | 48 | 51.72 | | |
| | | | | | | | | | | | −1.53 | | |
| | $\alpha_2$ | | | | | | | | | 48 | 50.28 2 | | +4. −13 |
| 49 | 48 37.2 | 54 57.8 | 8.3 | 49 32.0 | 49 42.6 | 53.2 | 56.8 | 0.5 | 4.1 | 49 | 56.84 | | |
| 48 | | 54 | 8.2 | 28.3 | | | | | | | + 6.42 3 | | |
| | | | | 42.2 | | | | | | | + .11 | | |
| | κ | | | 28.3 | | | | | | | − 3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | + 6.51 +01 | 50 | 3.34 | | |
| | | | | | | | | | | | −1.72 | | |
| | $\alpha_1$ | | | | | | | | | 50 | 1.68 4 | | +4. −13 |
| | | | 8.0 | 49 23.0 | 49 46.2 | 49.8 | 53.4 | 57.0 | 0.8 | 49 | 53.44 | | |
| | | | | 26.6 | | | | | | | + 9.64 | | |
| | κ | | | 29.8 | | | | | | | + 11 | | |
| | | | | 26.5 | | | | | | | − 3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | + 9.72 +01 | 50 | 3.16 | | |
| | | | | | | | | | | | −1.62 | | |
| | $\alpha_2$ | | | | | | | | | 50 | 1.54 5 | | +4. −13 |
| 51 | 51 43.1 | 50 23 26.3 | 9.0 | 51 22.0 | 51 33.0 | 56.2 | 59.3 | 2.5 | 5.8 | 51 | 59.36 | | |
| 50 | | 50 | 8.8 | 36.2 | | | | | | | + 6.48 3 | | |
| | | | | 29.7 | | | | | | | + .10 | | |
| | κ | | | 26.3 | | | | | | | − 2 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | + 6.51 +02 | 52 | 5.87 | | |
| | | | | | | | | | | | −1.55 | | |
| | $\alpha_1$ | | | | | | | | | 52 | 4.32 4 | | +4. −13 |
| | | | 9.1 | 51 23.7 | 51 44.4 | 52.6 | 55.8 | 59.1 | 2.4 | 51 | 55.86 | | |
| | | | | 26.3 | | | | | | | + 9.64 | | |
| | κ | | | 30.0 | | | | | | | + .10 | | |
| | | | | 26.7 | | | | | | | − 2 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | + 9.72 +02 | 52 | 5.58 | | |
| | | | | | | | | | | | −1.45 | | |
| | $\alpha_2$ | | | | | | | | | 52 | 4.18 5 | | +4. −13 |
| 53 | 05 52.2 | 52 29.2 | 9.8 | 52 28.0 | 53 3.6 | 7.0 | 10.2 | 13.8 | 17.3 | 53 | 10.44 | | |
| 51 | | 52 | 9.4 | 41.6 | | | | | | | + 6.43 3 | | |
| | | | | 44.3 | | | | | | | + 10 | | |
| | κ | | | 41.3 | | | | | | | − 2 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | + 6.51 +01 | 53 | 16.95 | | |
| | | | | | | | | | | | −1.65 | | |
| | $\alpha_1$ | | | | | | | | | 53 | 15.30 1 | | +4. −13 |
| | | | 9.6 | 52 31.6 | 53 0.3 | 3.7 | 7.1 | 10.5 | 14.0 | 53 | 7.06 | | |
| | | | | 32.8 | | | | | | | +9.64 | | |
| | κ | | | 33.5 | | | | | | | + .10 | | |
| | | | | 32.6 | | | | | | | − 2 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | + 9.72 +01 | 53 | 16.78 | | |
| | | | | | | | | | | | −1.56 | | |
| | $\alpha_2$ | | | | | | | | | 53 | 15.23 3 | | +4. −13 |
| 53 | 40 27.8 | 52 47 56.4 | 7.9 | 53 33.3 | 53 37.4 | 40.9 | 44.3 | 48.0 | 51.1 | 53 | 44.34 | | |
| 52 | | 52 | 8.2 | 35.0 | | | | | | | + 6.43 4 | | |
| | | | | 36.4 | | | | | | | + .10 | | |
| | κ | | | 34.4 | | | | | | | − 2 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | + 6.52 +02 | 53 | 50.85 | | |
| | | | | | | | | | | | −1.67 | | |
| | $\alpha_1$ | | | | | | | | | 53 | 49.19 21 | | +4. −13 |
| | | | 7.6 | 53 24.6 | 53 34.1 | 37.6 | 41.0 | 44.4 | 47.8 | 53 | 40.98 | | |
| | | | | 28.3 | | | | | | | +9.64 5 | | |
| | κ | | | 30.8 | | | | | | | + .10 | | |
| | | | | 27.4 | | | | | | | − 2 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | + 9.73 +02 | 53 | 50.70 | | |
| | | | | | | | | | | | −1.57 | | |
| | $\alpha_2$ | | | | | | | | | 53 | 49.14 6 | | +4. −1 |

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Obs. 2 Obs. 6

Runs $R_{eq}$ = -7 29.06 28.97

5

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ' |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +18.10 | 0′ 28.7″ | 24.9 | 5′ | 26.80 | 53 17 21.55 | | | 5″ | 53 9 38.37 | |
| | 1.25527 | | | | | 9 52.49 | | | | − 8 | +12.05 |
| d | 9.77778 | | | | | +14.12 | 9 38.37 | | | + 0 | |
| | 1.14983$_m$ | | | | | | 10 6.61 | | | + 11.42 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .71 | |
| +4.39 | | | | | | | | | | − 13.80 | |
| −13.48 δ$_1$ | | 48 54.76 | | 9 23.1 | | | | | | 9 36.62 | |
| | +24.4 | 0 21.0 | 19.6 | 5 | 20.30 | 53 17 28.05 | | | 5 | 39.94 | |
| | 1.38739 | | | | | 9 59.08 | | | | − 15 | +11.90 |
| d | 9.77778 | | | | | +19.14 | 9 39.94 | | | − 0 | |
| | 1.28198$_m$ | | | | | | 10 16.22 | | | + 11.34 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .41 | |
| +4.39 | | | | | | | | | | − 14.30 | |
| −13.48 δ$_2$ | | 48 54.61 | | 9 24.1 | | | | | | 9 37.54 | |
| | +18.3 | 1 14.1 | 7.8 | 21 | 14.95 | 55 1 37.40 | | | 20 | 54 53.57 | |
| | 1.26245 | | | | | 54 54 9.34 | | | | − 8 | +14.03 |
| d | 9.75967 | | | | | +13.77 | 53 54.57 | | | + 0 | |
| | 1.13890$_m$ | | | | | | 54 22.11 | | | + 13.32 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .79 | |
| +4.47 | | | | | | | | | | − 14.20 | |
| −13.55 δ$_1$ | | 1 50 6.11 | 2.0 | 53 41.8 | | | | | | 53 55.40 | |
| | +26.9 | 8 3.7 | 21.0 | 20 21 | 2.85 | 21 45.50 | | | 20 | 54 56.30 | |
| | 1.42975 | | | | | 54 54 16.53 | | | | − 19 | +13.84 |
| d | 9.75949 | | | | | − 20.23 | | | | − 0 | |
| | 1.30602$_m$ | | | | | | | | | + 13.24 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .79 | |
| +4.47 | | | | | | | | | | − 14.70 | |
| −13.55 δ$_2$ | | 50 6.02 | | 53 41.9 | | | | | | 54 55.44 | |
| | +23.1 | 1 17.2 | 16.8 | 51 | 23.45 | 50 31 24.90 | | | 50 | 50 23 36.57 | |
| | 1.36361 | 25.0 | 21.9 | | | 23 55.84 | | | | − .14 | +8.83 |
| d | 9.80443 | | | | | +19.27 | 23 36.57 | | | + 0 | |
| | 1.28482$_m$ | | | | | | 24 18.11 | | | + 8.45 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .52 | |
| +4.25 | | | | | | | | | | − 12.90 | |
| −13.68 δ$_1$ | | 52 8.57 | | 23 18.8 | | | | | | 23 32.50 | |
| | +29.2 | 1 17.2 | 16.8 | 51 | 17.00 | 50 31 31.35 | | | 50 | 38.03 | |
| | 1.46538 | | | | | 24 2.38 | | | | − .23 | +8.87 |
| d | 9.80443 | | | | | +24.35 | 23 38.03 | | | − 1 | |
| | 1.38659$_m$ | | | | | | 24 26.73 | | | + 8.37 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .34 | |
| +4.25 | | | | | | | | | | − 13.40 | |
| −13.68 δ$_2$ | | 52 8.40 | | 23 19.6 | | | | | | 23 33.30 | |
| | +29.1 | 1 1.0 | 56.8 | 46 | 58.90 | 52 35 49.45 | | | 45 | 52 27 57.19 | |
| | 1.46389 | | | | | 28 20.39 | | | | − .22 | +11.11 |
| d | 9.78478 | | | | | +23.20 | 27 57.19 | | | + 0 | |
| | 1.36548$_m$ | | | | | | 28 43.59 | | | + 10.66 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .67 | |
| +4.34 | | | | | | | | | | − 13.30 | |
| −13.76 δ$_1$ | | 53 19.65 | | 27 41.2 | | | | | | 27 55.00 | |
| | +34.5 | 1 52.7 | 51.5 | 46 | 52.10 | 52 35 56.25 | | | 45 | 57.78 | |
| | 1.53782 | | | | | 28 27.28 | | | | − .31 | +10.93 |
| d | 9.78478 | | | | | +27.50 | 27 59.78 | | | − 2 | |
| | 1.43938$_m$ | | | | | | 28 47.78 | | | + 10.59 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .67 | |
| +4.34 | | | | | | | | | | − 13.80 | |
| −13.76 δ$_2$ | | 53 19.57 | | 27 43.2 | | | | | | 27 56.91 | |
| | +9.4 | 3 12.6 | 8.1 | 28 | 10.35 | 52 54 38.00 | | | 25 | 52 47 1.50 | |
| | 0.97313 | | | | | 47 8.94 | | | | − 3 | +11.67 |
| d | 9.78163 | | | | | +7.44 | 1.50 | | | + 0 | |
| | 0.87154$_m$ | | | | | | 47 16.38 | | | + 11.01 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .69 | |
| +4.35 | | | | | | | | | | − 13.80 | |
| −13.80 δ$_1$ | | 53 53.56 | | 46 46.0 | | | | | | 46 59.71 | |
| | +13.1 | 3 7.6 | 5.9 | 28 | 6.75 | 52 54 41.60 | | | 25 | 2.26 | |
| | 1.11727 | | | | | 47 12.63 | | | | − 5 | +11.54 |
| d | 9.78163 | | | | | +10.37 | 2.26 | | | − 3 | |
| | 1.01568$_m$ | | | | | | 47 23.00 | | | + 10.93 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .69 | |
| +4.35 | | | | | | | | | | − 13.90 | |
| −13.80 δ$_2$ | | 53 53.51 | | 46 46.1 | | | | | | 46 59.90 | |

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1874phae.proj.1588R

Date$_1$ = Apr. 2, 1874 (272) Observer W.A.R. Recorder J.H.M.

Date$_2$ = Apr. 6, 1874 (278) Observer Recorder

6

Ru

| Star. | α | δ | Mag. | $T_s$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | 36 | 49 50 | 9.6 | 33m 7.1 | 5m 27.5 | 40.6 | 43.5 | 46.6 | 50.0 | 59 | 43.64 | 50 | |
| 54 | 27.8 | 49 53.1 | 9.4 | 9.6 | | | 43.5 | 43.4 | 43.6 | | + 6.48 | 4 | |
| | | | | 12.4 | | | | | | | + 9 | | |
| | | | | 9.7 | | | | | + 6.51 | +01 | — 2 | | |
| | | | | | | | | | | 55 | 50.14 | 02 | |
| | | | | | | | | | | | −1.61 | | |
| | | | | | | | | | | 55 | 48.53 | | |
| | | | | | | | | | | | 41 | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_1$ | | | | | | | | | | | | |
| | | | 9.8 | 55 11.1 | 55 33.7 | 37.0 | 40.1 | 43.2 | 46.5 | 55 | 40.10 | | |
| | | | | 12.9 | | | | | | | + 9.64 | 5 | |
| | | | | 14.9 | | | | | | | + 9 | | |
| | | | | 13.1 | | | | | + 9.72 | +01 | — 2 | | |
| | | | | | | | | | | 55 | 49.81 | | |
| | | | | | | | | | | | −1.52 | | |
| | | | | | | | | | | 55 | 48.30 | 1 | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_2$ | | | | | | | | | | | | |
| 56 | 27 | 54 24 | 9.4 | 56 22.1 | 56 24.8 | 28.2 | 31.9 | 35.4 | 38.4 | 56 | 31.84 | | |
| 55 | 11.8 | 54 26.3 | 9.0 | 21.4 | | | | | | | + 6.48 | 4 | |
| | | | | 23.5 | | | | | | | + .11 | | |
| | | | | 25.0 | | | | | + 6.52 | +02 | — 3 | | |
| | | | | | | | | | | 56 | 38.35 | | |
| | | | | | | | | | | | −1.77 | | |
| | | | | | | | | | | 56 | 36.59 | 61 | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_1$ | | | | | | | | | | | | |
| | | | 8.5 | 56 49.9 | 56 21.2 | 24.8 | 28.4 | 32.0 | 35.7 | 56 | 28.42 | | |
| | | | | 52.8 | | | | | | | + 9.64 | 5 | |
| | | | | 53.9 | | | | | | | + .11 | | |
| | | | | 52.9 | | | | | + 9.73 | +02 | — 3 | | |
| | | | | | | | | | | 56 | 38.14 | | |
| | | | | | | | | | | | −1.66 | | |
| | | | | | | | | | | 56 | 36.49 | 51 | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_2$ | | | | | | | | | | | | |
| 57 | 36 | 53.27 | 6.9 | 57 16.8 | 30.6 | 34.3 | 37.6 | 41.0 | 44.7 | 57 | 37.64 | | |
| 56 | 21.3 | 53 32.7 | 7.3 | 19.2 | | | | | | | + 6.48 | 4 | |
| | | | | 22.1 | | | | | | | + .11 | | |
| | | | | 19.4 | | | | | + 6.52 | +01 | — 3 | | |
| | | | | | | | | | | 57 | 44.15 | | |
| | | | | | | | | | | | −1.73 | | |
| | | | | | | | | | | 57 | 42.53 | 44 | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_1$ | | | | | | | | | | | | |
| | | | 7.8 | 57 51.0 | 57 27.4 | 30.8 | 34.2 | 37.8 | 41.1 | 57 | 34.26 | | |
| | | | | 54.3 | | | | | | | + 9.65 | | |
| | | | | 57.3 | | | | | | | + .11 | | |
| | | | | 54.2 | | | | | + 9.73 | +01 | — 3 | | |
| | | | | | | | | | | 57 | 43.99 | | |
| | | | | | | | | | | | −1.63 | | |
| | | | | | | | | | | 57 | 42.36 | 37 | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_2$ | | | | | | | | | | | | |
| 58 | 55 | 53.46 | 8.7 | 58 32.3 | 58 [illegible] | 33.6 | 37.2 | 2[illegible] | 6.0 | 58 | 59.20 | 10 | |
| 57 | 39.5 | 53 50.4 | 8.4 | 37.1 | | 59.1 | 59.2 | 59.1 | 57.0 | | + 6.48 | 4 | |
| | | | | 40.8 | | | | | | | + .11 | | |
| | | | | 37.1 | | | | | + 6.52 | +02 | — 3 | | |
| | | | | | | | | | | 59 | 5.74 | 63 | |
| | | | | | | | | | | | −1.76 | | |
| | | | | | | | | | | 59 | 3.98 | 388 | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_1$ | | | | | | | | | | | | |
| | | | 8.8 | 58 37.0 | 58 48.8 | 52.3 | 55.7 | 59.1 | 2.8 | 58 | 55.74 | | |
| | | | | 40.3 | | | | | | | + 9.65 | | |
| | | | | 43.5 | | | | | | | + .11 | | |
| | | | | 40.3 | | | | | + 9.73 | +02 | — 3 | | |
| | | | | | | | | | | 59 | 5.47 | | |
| | | | | | | | | | | | −1.66 | | |
| | | | | | | | | | | 59 | 3.81 | 3 | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_2$ | | | | | | | | | | | | |
| 9 | 00 | 11 52.16 | 9.4 | 57 56.3 | 0 9.7 | 12.3 | 16.6 | 20.0 | 23.3 | 0 | 16.88 | | |
| 8 | 58 | 59.1 52 20.0 | 9.3 | 58.8 | | | | | | | + 6.48 | 4 | |
| | | | | 0.8 | | | | | | | + .10 | | |
| | | | | 58.6 | | | | | + 6.52 | +01 | — 2 | | |
| | | | | | | | | | | 0 | 23.09 | | |
| | | | | | | | | | | | −1.71 | | |
| | | | | | | | | | | 0 | 21.39 | 40 | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_1$ | | | | | | | | | | | | |
| | | | 9.5 | 59 36.1 | 0 6.2 | 9.4 | 13.1 | 16.6 | 20.0 | 0 | 13.06 | | |
| | | | | 37.1 | | | | | | | + 9.65 | | |
| | | | | 38.3 | | | | | | | + .10 | | |
| | | | | 37.2 | | | | | + 9.73 | +01 | — 2 | | |
| | | | | | | | | | | 0 | 22.79 | | |
| | | | | | | | | | | | −1.65 | | |
| | | | | | | | | | | 0 | 21.24 | 5 | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_2$ | | | | | | | | | | | | |

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Runs $a_{29} = -7'29.06$ 28.97"

| | $T_m - T$ | I | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | +33.98 | 0′ | 0.1 | 57.1 | 24″ | 58.60 | 49 57 49.75 | | | 25′ | 49 47 52.07 | |
| 1.52892 | 1.53020 | | | | 25 | | 49 50 20.69 | | | | − 21 | +8.21 |
| d | 9.80972 | | | | | | + 28.62 | 49 | 52.07 | | + 0 | |
| | 1.45670 m | | | | | | | 54 50 | 49.31 | | + 8.02 | |
| | 542 | | | | | | | | | | + .50 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | − 12.80 | |
| +4.21 | | | | | | | | | | | 50 025 | |
| −13.92 $\delta_1$ | | 55 | 52.62 | | 48 33.6 | | | | | | 47 47.46 | 47.56 |
| | +27.1 | 0 | 4.0 | 3.7 | 25 | 3.85 | 49 57 44.50 | | | 25 | 5265 | |
| | 1.43297 | | | | 26 | | 50 15.53 | | | | − .20 | +8.27 |
| d | 9.80972 | | | | | | 49 + 22.88 | 49 | 52.65 | | − 0 | |
| | 1.35947 m | | | | | | | 50 | 38.41 | | + 7.97 | |
| | | | | | | | | | | | + .50 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | − 13.30 | |
| +4.21 | | | | | | | | | | | 48 47.62 | |
| −13.92 $\delta_2$ | | 55 | 52.52 | | 48 33.7 | | | | | | | |
| | + 6.8 | 3 | 40.0 | 35.1 | 53 | 37.55 | 54 29 10.80 | | | 50 | 54 21 36.56 | Cremin |
| | 0.83251 | | | | | | 21 41.79 | | | | − 1 | |
| d | 9.76537 | | | | | | + 5.18 | 21 | 36.56 | | + 0 | |
| | 0.71466 m | | | | | | | 21 | 46.92 | | + 12.74 | +1350 |
| | | | | | | | | | | | + .77 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | − 13.90 | |
| +4.41 | | | | | | | | | | | 21 23.17 | |
| −13.97 $\delta_1$ | | 56 | 41.02 | | 21 22.2 | | | | | | 21 36.16 | |
| | −24.5 | 3 | 1.1 | 59.4 | 53.4 | 0.25 | 54 28 48.10 | | | 50 | 21 37.81 | Cremin |
| | 1.38917 m | | | | | | 22 19.13 | | | | − 15 | |
| d | 9.76537 | | | | | | + 18.68 | | 37.81 | | − 3 | |
| | 1.27182 m | | | | | | | 22 | 4.45 | | + 12.56 | +1325 |
| | | | | | | | | | | | + .77 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | − 14.50 | |
| +4.41 | | | | | | | | | | | 21 36.56 | |
| −13.97 $\delta_2$ | | 56 | 40.92 | | 21 22.6 | | | | | | | |
| | + 18.2 | 0 | 8.0 | 3.2 | 46 | 5.60 | 53 37 42.75 | | | 45 | 53 29 59.53 | |
| | 1.26007 | | | | 6 | | 30 13.69 | | | | − 8 | +12.42 |
| d | 9.77439 | | | | | | + 14.16 | 29 | 59.53 | | + 0 | |
| | 1.15124 m | | | | | | | 30 | 29.85 | | + 11.78 | |
| | | | | | | | | | | | + .72 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | − 13.40 | |
| +4.36 | | | | | 4 | | | | | | 28 58.5 | |
| −14.04 $\delta_1$ | | 57 | 46.80 | | 28 47.5 | | | | | | | |
| | −19.9 | 1 | 85.7 | 32.4 | 46 | 34.05 | 53 36 14.30 | | | 45 | 29 083 | |
| | 1.29885 m | | | | | | 28 45.33 | | | | − .10 | |
| d | 9.77456 | | | | | | + 15.50 | 29 | 083 | | − 1 | +12.31 |
| | 1.19019 m | | | | | | | 28 | 29.83 | | + 11.70 | |
| | | | | | | | | | | | + .72 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | − 13.90 | |
| +4.36 | | | | | | | | | | | 28 .59.24 | |
| −14.04 $\delta_2$ | | 57 | 46.73 | | 28 45.2 | | | | | | | |
| | + 22.10 | 4 | 14.5 | 10.1 | 29 | 12.30 | 53 53 36.05 | | | 25 | 53 45 49.90 7 | |
| | 1.34439 | | | | 24.2 | | 46 6.99 | | | | − .13 | +12.67 |
| d | 9.77164 | | | | | | + 17.08 | 45 | 49.90 | | + 0 | |
| | 1.23281 m | | | | | | | 46 | 24.08 | | + 12.07 | |
| | 0.84 | | | | | | | | | | + .73 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | − 13.30 | |
| +4.37 | | | | | | | | | | | 45 49.27 34 | |
| −14.13 $\delta_1$ | | 59 | 8.25 | | 45 35.2 | | | | | | | |
| | + 15.4 | 4 | 17.7 | 16.2 | 29 | 16.95 | 53 53 31.40 | | | 25 | 50.52 | |
| | 1.18752 | | | | | | 46 2.43 | | | | − 6 | +12.63 |
| d | 9.77164 | | | | | | + 11.91 | 45 | 50.52 | | − 4 | |
| | 1.07594 m | | | | | | | 46 | 14.34 | | + 12.00 | |
| | | | | | | | | | | | + .73 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | − 13.90 | |
| +4.37 | | | | | | | | | | | 45 49.25 | |
| −14.13 $\delta_2$ | | 59 | 8.20 | | 45 35.1 | | | | | | | |
| | + 18.6 | 4 | 30.2 | 26.4 | 59 | 28.30 | 52 23 20.05 | | | 55 | 52 15 36.58 | |
| | 1.25527 | | | | | | 15 50.99 | | | | − 9 | +11.02 |
| d | 9.78674 | | | | | | + 14.41 | 15 | 36.58 | | + 0 | |
| | 1.15879 m | | | | | | | 16 | 5.40 | | + 10.45 | |
| | | | | | | | | | | | + 66 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | − 12.90 | |
| +4.29 | | | | | | | | | | | 15 34.70 | |
| −14.20 $\delta_1$ | | 0 | 25.69 | | 15 20.5 | | | | | | | |
| | +35.9 | 4 | 14.2 | 12.3 | 59 | 13.25 | 52 23 35.10 | | | 55 | 37.38 | |
| | 1.55509 | | | | | | 16 6.13 | | | | − 34 | +10.66 |
| d | 9.78674 | | | | | | + 28.75 | 15 | 37.38 | | − 4 | |
| | 1.45861 m | | | | | | | 16 | 34.88 | | + 10.38 | |
| | | | | | | | | | | | + .66 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | − 13.40 | |
| +4.29 | | | | | | | | | | | 15 34.64 | |
| −14.20 $\delta_2$ | | 0 | 25.54 | | 15 20.4 | | | | | | | |

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1874phae.proj.15888

272 293 8

Date$_1$ = Apr. 2, 1874 Observer W. A. R.
Recorder J. H. M.

Date$_2$ = Apr. 6, 1874 Observer
Recorder

| Star. | α | | Mag. | | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| h | m | s | | | s | m s | s | s | s | s | m | s | | |
| 01 | 10 | 52.55 | 8.8 | 0 | 38.5 | 0 56.4 | 2.6 | 6.2 | 9.3 | 13.0 | 1 | 6.10 | −.01 | |
| 59 | 58.7 | 52 58.7 | 8.0 | | 1.6 | | | | | | | +6.434 | | |
| κ | 49.2 | 52 0.6 | | | 4.5 | | | | | | | + .10 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | 6.3 | | | | | + 6.52 +02 | | − 2 | | |
| | | | | | | | | | | | 1 | 12.613 | | |
| $\alpha_1$ | | | | | | | | | | | | −1.70 | | |
| | | | | | | | | | | | | 10.913 | | +4.3 −14.7 |
| | | | 8.3 | 0 | 41.0 | 0 56.0 | 59.4 | 2.8 | 6.0 | 9.3 | 1 | 2.70 | | |
| | | | | | 44.2 | | | | | | | + 9.65 | | |
| κ | | | | | 46.7 | | | | | | | + .10 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | 44.0 | | | | | + 9.73 +02 | | − 2 | | |
| | | | | | | | | | | | 1 | 12.43 | | |
| $\alpha_2$ | | | | | | | | | | | | −1.71 | | |
| | | | | | | | | | | | | 10.72 84 | | +4.2 −14. |
| 02 | 48 | 53.16 | 9.0 | 2 | 8.7 | 2 34.2 | 37.5 | 41.1 | 44.5 | 48.0 | 2 | 41.06 | | |
| 01 | 22.9 | 53 20.2 | 9.0 | | 12.2 | | | | | | | + 6.434 | | |
| κ | | | | | 15.7 | | | | | | | + .10 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | 12.2 | | | | | + 6.57 +01 | | − 3 | | |
| | | | | | | | | | | | 2 | 47.56 | | |
| $\alpha_1$ | | | | | | | | | | | | −1.77 | | |
| | | | | | | | | | | | 2 | 45.81 | | +4.3 −14. |
| | | | 8.8 | 2 | 23.9 | 2 30.4 | 34.0 | 37.4 | 41.8 | 44.4 | 2 | 37.47 52 | | |
| | | | | | 26.0 | | | | | | | +9.65 | | |
| κ | | | | | 29.8 | | | | | | | + .10 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | 26.6 | | | | | + 9.72 +01 | | − 3 | | |
| | | | | | | | | | | | 2 | 47.16 | | |
| $\alpha_2$ | | | | | | | | | | | | −1.68 57 | | |
| | | | | | | | | | | | 2 | 45.47 | | +4 −14 |
| 04 | 09 | 53 32 | 9.1 | 3 | 37.2 | 4 17.4 | 21.0 | 24.2 | 27.8 | 31.3 | 4 | 24.34 | | |
| 03 | 55.8 | 53 36.5 | 9.2 | | 37.7 | | | | | | | + 6.484 | | |
| 3 κ | 6.9 | 53 37.7 | | | 1.2 | | | | | | | + .11 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | 37.7 | | | | | + 6.52 +02 | | − 3 | | |
| | | | | | | | | | | | 4 | 30.85 | | |
| $\alpha_1$ | | | | | | | | | | | | −1.79 | | |
| | | | | | | | | | | | 4 | 29.069 | | +4. −14 |
| | | | 8.9 | 3 | 58.9 | 4 14.0 | 17.4 | 20.7 | 24.2 | 27.9 | 4 | 20.84 | | |
| | | | | | 55.0 | | | | | | | + 9.65 | | |
| κ | | | | | 58.0 | | | | | | | + .11 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | 54.6 | | | | | + 9.73 +02 | | − 3 | | |
| | | | | | | | | | | | 4 | 30.57 | | |
| $\alpha_2$ | | | | | | | | | | | | −1.70 | | |
| | | | | | | | | | | | 4 | 28.879 | | +4. −1. |
| 05 | 40 | 53.14 | 8.0 | 5 | 4.3 | 5 35.0 | 38.4 | 41.4 | 45.4 | 48.8 | 5 | 41.90 | | |
| 04 | 27.1 | 53 18.2 | 8.0 | | 7.6 | | | | | | | + 6.44 | | |
| κ | | | 8.0 | | 10.8 | | | | | | | + .10 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | 7.6 | | | | | + 6.51 +01 | 5 | − 3 | | |
| | | | | 5 | 12.1 | 5 36.8 | 40.3 | 43.7 | 47.3 | 50.7 | 5 | 48.41 −1.80 | | +4.3 |
| 4 | 29.0 | 53 18.4 | | | 23.8 | | | | | | | 43.76 5 | 46.6x2 | −14.5 |
| $\alpha_1$ | | | | | 26.6 | | | | | + 6.51 +01 | | + 6.44 | | |
| | | | | | 23.8 | | | | | | 5 | + .10 | | |
| | | | | | | | | | | | | − 3 | | |
| | | | | | | | | | | | | 50.27 −1.80 | 48.48 | +4.3 −14. |
| | | | 7.7 | 4 | 46.5 | 5 31.7 | 35.0 | 38.4 | 42.0 | 45.4 | 5 | 38.50 | | |
| | | | 7.9 | | 50.6 | | | | | | | + 9.65 | | |
| κ | | | | | 52.6 | | | | | | | + .10 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | 49.9 | | | | | + 9.72 +01 | 5 | − 3 | | |
| | | | | 5 | 1.2 | 5 33.6 | 36.8 | 40.3 | 44.0 | 47.5 | 5 | 48.22 −1.71 | 46.52 | +4.3 −14. |
| $\alpha_2$ | | | | | 5.0 | | | | | | | 40.44 | | |
| | | | | | 7.1 | | | | | + 9.72 +01 | | + 9.65 | | |
| | | | | | 4.4 | | | | | | 5 | + .10 | | |
| | | | | | | | | | | | | − 3 | | |
| | | | | | | | | | | | | 50.16 −1.71 | 48.45 | +4.3 −14. |
| 07 | 08 | 53.06 | 9.0 | 6 | 43.7 | 7 10.8 | 14.2 | 17.6 | 21.0 | 24.6 | 7 | 17.64 | | |
| 05 | 58.7 | 53 14.4 | 9.0 | | 47.2 | | | | | | | + 6.44 | | |
| 6 κ | 12 | 13.0 | | | 50.4 | | | | | | | + .10 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | 47.1 | | | | | + 6.62 +02 | | − 2 | | |
| | | | | | | | | | | | 7 | 24.16 | | |
| $\alpha_1$ | | | | | | | | | | | | −1.81 | | |
| | | | | | | | | | | | 7 | 22.357 | | +4. −14 |
| | | | 8.9 | 6 | 39.5 | 7 7.4 | 10.8 | 14.1 | 17.4 | 20.9 | 7 | 14.12 | | |
| | | | | | 44.4 | | | | | | | +9.65 | | |
| κ | | | | | 46.3 | | | | | | | + .10 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | 43.4 | | | | | + 9.73 +02 | | − 2 | | |
| | | | | | | | | | | | | 23.85 | | |
| $\alpha_2$ | | | | | | | | | | | | −1.71 | | |
| | | | | | | | | | | | 7 | 22.146 | | +4.2 −14.6 |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +4.86 | 3′ 37.9 | 47.3 | 18′ | 49.60 | 52 3 58.75 | | | 15′ | 51 56 25.98 | Ex δ. See D.M. List |
| | 0.66276 | | | | | 51 56 29.69 | | | | − 1 | +10.54 |
| d | 9.78983 | | | | | *3.71 | | 25.98 | | + 0 | |
| | 0.56937n | | | | | | 56 | 33.40 | | + 10.10 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .65 | |
| +4.27 | | | | | | | | | | −12.70 | |
| −14.27 $\delta_1$ | • | 1 15.20 | | 56 9.8 | | | | | | 51 56 24.12 | |
| | +187 | 3 38.0 | 36.7 | 18 | 37.35 | 52 4 11.00 | | | 15 | 26.95 | |
| | 1.27184 | | | | | 51 56 42.03 | | | | − .10 | +10.54 |
| d | 9.78983 | | | | | *15.08 | | 26.95 | | − 4 | |
| | 1.17845n | | | | | | 56 | 57.11 | | +10.03 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .65 | |
| +4.27 | | | | | | | | | | −13.50 | |
| −14.27 $\delta_2$ | | 1 15.11 | | 56 9.7 | | | | | | 51 56 23.99 | |
| | +28.8 | 0 32.0 | 27.4 | 0 | 29.70 | 53 22 18.65 | | | 0 | 53 14 26.96 | |
| | 1.46090 | | | | | 14 49.59 | | | | − .22 | +11.99 |
| d | 9.77694 | | | | | *22.63 | 14 | 26.96 | | + 0 | |
| | 1.35462n | | | | | | 15 | 17.22 | | + 11.50 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .71 | |
| +4.32 | | | | | | | | | | −13.10 | |
| −14.35 $\delta_1$ | | 2 50.13 | | 14 11.5 | | | | | | 14 25.85 | |
| | +108 | 0 43.2 | 42.8 | 0 | 43.00 | 53 22 5.35 | | | 0 | 27.92 | |
| | 1.03342 | | | | | 14 36.38 | | | | − .3 | +12.10 |
| d | 9.77694 | | | | | *8.46 | | 27.92 | | − .1 | |
| | 0.92714n | | | | | | 14 | 44.84 | | + 11.43 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .71 | |
| +4.32 | | | | | | | | | | −13.50 | |
| −14.35 $\delta_2$ | | 2 49.89 | | 14 12.2 | | | | | | 14 26.52 | |
| | +26.6 | X$_2$ 4.9 | 0.2 | 41 | 2.55 | 53 47 45.80 | | | 40 | 53 33 56.07 | |
| | 1.42488 | | | 42 | | 33 16.74 | | | | − .19 | +12.38 |
| d | 9.77370 | | | | | *20.67 | 33 | 56.07 | | + 0 | |
| | 1.31536n | | | | | | 34 | 37.41 | | + 11.85 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .72 | |
| +4.33 | | | | | | | | | | −13.00 | |
| −14.45 $\delta_1$ | | 4 33.42 | | 32 41.0 | .10 | | | | | 33 56.45 | |
| | +26.2 | X$_2$ 2.6 | 0.9 | 41 | 1.75 | 53 47 46.60 | | | 40 | 32 57.37 | |
| | 1.41830 | | | 42 | | 33 17.73 | | | | − .18 | +12.31 |
| d | 9.77370 | | | | | *20.36 | 33 | 57.37 | | − .1 | |
| | 1.30878n | | | | | | 34 | 38.09 | | + 11.78 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .72 | |
| +4.33 | | | | | | | | | | −13.50 | |
| −14.45 $\delta_2$ | | 4 33.22 | | 32 41.7 | | | | | | 33 56.48 | |
| | +34.3 | 1 27.0 | 20.7 | 1 | 23.85 | 53 21 24.50 | | | 0 | 53 13 28.57 | 13 38.99 |
| | 1.63539 | 1 27.0 | 20.7 | 1 | 23.85 | 53 21 24.50 | 13 | 28.57 | 0 | − .30 | − .12 |
| d | 9.77711 | 53 13 28.57 | 53 13 | 38.99 | | 13 55.44 | 14 | 22.31 | | + 0 | + 0 |
| +4.30 | 1.42928n | +11.89 | | +12.07 | | 13 55.44 | | | | + 11.48 | + 11.48 |
| −14.54 ((δ) − D) $\frac{d'}{100}$ | + 2.0 | | | | | *26.87 | 13 | 38.99 | | + .71 | + .71 |
| | 1.32222 | | | 13.1 | | *16.45 | 14 | 11.87 | | −12.80 | −12.80 |
| +4.30 $\delta_1$ | 9.77711 | 5 50.92 | | 13 11.1 | | | | | | 13 27.58 | 13 38.26 |
| −14.54 | 1.21611n | 5 52.78 | | 23.7 | | | | | | 26.6 | |
| | +48.6 | 1 11.3 | 10.1 | 1 | 10.70 | 53 21 37.65 | | | 0 | 30.61 | 40.48 |
| | 1.68664 | 1 11.3 | 10.1 | 1 | 10.70 | 53 21 37.65 | 13 | 30.61 | 0 | − .02 | − .34 |
| d | 9.77711 | 13 30.61 | | 13 40.48 | | 14 8.68 | 14 | 46.75 | | − .1 | − .1 |
| +4.30 | 1.58053n | +11.49 | | +11.77 | | 14 8.68 | | | | + 11.41 | + 11.41 |
| −14.54 ((δ) − D) $\frac{d'}{100}$ | + 36.0 | | | | | *38.07 | 13 | 40.48 | | + .71 | + .71 |
| | 1.55630 | | | | | −28.20 | 14 | 36.88 | | −13.30 | −13.30 |
| +4.30 $\delta_2$ | 9.77711 | 5 50.82 | | 13 14.3 | | | | | | 13 28.80 | 13 38.95 |
| −14.54 | 1.45019n | 5 52.76 | | 24.4 | | | | | | | |
| | +30.5 | 2 35.4 | 30.3 | 7 | 32.85 | 53 15 15.50 | | | 5 | 53 7 22.50 | |
| | 1.48430 | | | | | 7 46.44 | | | | − .24 | +11.63 |
| d | 9.77812 | | | | | *23.94 | 7 | 22.50 | | + 0 | |
| | 1.37920n | | | | | | 8 | 10.38 | | + 11.37 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .70 | |
| +4.29 | | | | | | | | | | −12.70 | |
| −14.63 $\delta_1$ | | 7 26.66 | | 7 7.0 | | | | | | 7 21.63 | |
| | +30.7 | 2 31.1 | 30.1 | 7 | 30.60 | 53 15 17.75 | | | 5 | 24.68 | |
| | 1.48714 | | | | | 7 48.78 | | | | − .25 | +11.73 |
| d | 9.77812 | | | | | *24.10 | 7 | 24.68 | | − .2 | |
| | 1.38204n | | | | | | 8 | 12.88 | | + 11.30 | |
| +4.29 ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .70 | |
| −14.63 | | | | 6 | | | | | | −13.20 | |
| $\delta_2$ | | 7 26.45 | | 7 8.7 | | | | | | 7 23.21 | |

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292

Date$_1$ = Apr. 2, 1874 Observer W. A. H.
Recorder J. F. M.

298

Date$_2$ = Apr. 6, 1874 Observer
Recorder

19

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 08 m 07 | 51 51 | 8.5 | 9m 50.0 | 8m 8.2 | 11.6 | 15.0 | 18.3 | 21.7 | 8m | 14.96 | | |
| | 06 59.8 | 51 54.9 | 9.0 | 22.8 | | | | | | | + 6.44 | | |
| | κ | | | 33.3 | | | | | | | + .10 | | |
| | | | | 37.8 | | | | | + 6.52 +01 | | − .2 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 8 | 21.48 | | |
| | | | | | | | | | | | −1.76 | | +4.2 |
| | $\alpha_1$ | | | | | | | | | 8 | 19.723 | | −14. |
| | | | 8.9 | 7 41.2 | 8 4.9 | 8.2 | 11.6 | 15.0 | 18.4 | 8 | 11.62 | | |
| | | | | 45.5 | | | | | | | + 9.65 | | |
| | κ | | | 48.0 | | | | | | | + .10 | | |
| | | | | 44.9 | | | | | + 9.73 +01 | | − .2 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 8 | 21.35 | | |
| | | | | | | | | | | | −1.67 | | +4. |
| | $\alpha_2$ | | | | | | | | | 8 | 19.689 | | − 1. |
| | 09 59 | 54.38 | 9.2 | 9 24.0 | 9 54.3 | 57.4 | 1.4 | 5.0 | 8.5 | 10 | 1.42 | | |
| | 08 43.8 | 54 41.9 | 9.2 | 26.7 | | | | | | | + 6.44 | | |
| | κ | | | 30.2 | | | | | | | + .11 | | |
| | | | | 26.7 | | | | | + 6.52 +02 | | − .3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 10 | 7.94 | | |
| | | | | | | | | | | | −1.90 | | +4. |
| | $\alpha_1$ | | | | | | | | | 10 | 6.046 | | − 1. |
| | | | 9.3 | 9 20.0 | 9 50.9 | 54.4 | 58.1 | 1.6 | 5.1 | 9 | 58.02 | | |
| | | | | 23.2 | | | | | | | + 9.65 | | |
| | κ | | | 27.7 | | | | | | | + .11 | | |
| | | | | 23.6 | | | | | + 9.73 +02 | | − .3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 10 | 7.75 | | |
| | | | | | | | | | | | −1.81 | | +4. |
| | $\alpha_2$ | | | | | | | | | 10 | 5.946 | | − 1. |
| | 10 59 | 51 .01 | 8.5 | 10 37.1 | 11 0.7 | 4.0 | 7.2 | 10.6 | 13.8 | 11 | 7.26 | | |
| | 09 52.7 | 51 4.7 | 8.5 | 32.6 | | | | | | | + 6.45 | | |
| | κ | | | 42.8 | | | | | | | + .10 | | |
| | | | | 39.8 | | | | | + 6.52 +01 | | − .3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 11 | 13.79 | | |
| | | | | | | | | | | | −1.75 | | +4 |
| | $\alpha_1$ | | | | | | | | | 11 | 12.034 | | − 1. |
| | | | 8.2 | 10 24.7 | 10 57.3 | 0.6 | 4.0 | 7.1 | 10.4 | 11 | 3.88 | | |
| | | | | 28.0 | | | | | | | + 9.66 | | |
| | κ | | | 30.4 | | | | | | | + .10 | | |
| | | | | 27.7 | | | | | + 9.73 +01 | | − .3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 11 | 13.61 | | |
| | | | | | | | | | | | −1.66 | | +4. |
| | $\alpha_2$ | | | | | | | | | 11 | 11.956 | | − 1. |
| | 12 43 | 54.18 | 8.6 | 12 8.4 | 12 38.7 | 42.1 | 45.6 | 47.2 | 52.9 | 12 | 45.70 | | |
| | 11 28.5 | 54 22.3 | 8.6 | 11.2 | | | | | | | + 6.45 | | |
| | κ | | | 14.4 | | | | | | | + .11 | | |
| | | | | 11.3 | | | | | + 6.53 +02 | | − .3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 12 | 52.23 | | |
| | | | | | | | | | | | −1.91 | | +4. |
| | $\alpha_1$ | | | | | | | | | 12 | 50.324 | | − 1. |
| | | | 8.0 | 11 58.5 | 12 35.2 | 39.0 | 42.2 | 45.9 | 49.3 | 12 | 42.32 | | |
| | | | | 1.0 | | | | | | | + 9.66 | | |
| | κ | | | 4.7 | | | | | | | + .11 | | |
| | | | 12 | 1.4 | | | | | + 9.74 +02 | | − .3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 12 | 52.06 | | |
| | | | | | | | | | | | −1.82 | | +4. |
| | $\alpha_2$ | | | | | | | | | 12 | 50.246 | | − 1. |
| | 13 44 | 51.19 | 8.7 | 13 14.3 | 13 44.1 | 47.5 | 50.7 | (54.0) | 57.4 | 13 | 50.74 | | |
| | 12 37.7 | 51 13.2 | 8.5 | | | | | | | | + 6.45 | | |
| | κ | | 8.4 | | | | | | + 6.53 +01 | | − .10 | | |
| | | | | | | | | | | 13 | 57.27 | −1.78 | +4.17 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 13 17.2 | 13 46.5 | 49.8 | 53.0 | 56.3 | 59.6 | 13 | 53.04 | 13 55.49 | −15. |
| | | | | | | | | | | | + 6.45 | | |
| | $\alpha_1$ | | | | | | | | + 6.53 +01 | | + .10 | | +4.1 |
| | | | | | | | | | | 13 | − .2 | | −15. |
| | | | 8.9 | 13 17.5 | 13 40.9 | 44.3 | 47.5 | 50.7 | 54.0 | 13 | 59.57 −1.78 | 79 | |
| | | | 9.2 | | | | | | | | 47.48 | 13 57.79 | |
| | κ | | | | | | | | | | + 9.66 | 80 | |
| | | | | | | | | | + 9.74 +01 | | + .10 | | +4.1 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 13 20.8 | 13 43.1 | 46.6 | 49.8 | 53.0 | 56.3 | 13 | 57.23 −1.69 | | −15. |
| | | | | | | | | | | | 49.76 | 13 55.58 | |
| | $\alpha_2$ | | | | | | | | | | + 9.66 | | |
| | | | | | | | | | + 9.74 +01 | | + .10 | | +4.1 |
| | | | | | | | | | | 13 | − .2 | | −15. |
| | | | | | | | | | | | 59.50 | | |
| | | | | | | | | | | 13 | −1.69 | | |
| | | | | | | | | | | 13 | 57.812 | | |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +22.2 | 4 18.0 | 12.9 | 24 | 15.45 | 51 58 32.90 | | | 20 | 51 50 45.90 | |
| | 1.34635 | | | | | 51 3.84 | | | | − .13 | +10.50 |
| d | 9.79079 | | | | | *17.94 | 50 45.90 | | | + 0 | |
| | 1.25392 | | | | | | 51 ~~21.78~~ | | | + 10.00 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .63 | |
| +4.23 | | | | | | | | | | −12.20 | |
| −14.69 $\delta_1$ | | 8 23.96 | | 50 24.5 | | | | | | 50 44.20 | |
| | +26.7 | 4 12.0 | 11.0 | 24 | 11.50 | 51 58 36.85 | | | 20 | 46.30 | |
| | 1.42651 | | | | | 51 7.88 | | | | − .17 | +10.34 |
| d | 9.79079 | | | | | *21.58 | 50 46.30 | | | − 4 | |
| | 1.33408 | | | | | | 51 ~~29.46~~ | | | + 9.93 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | 292 | | | | | | + .64 | |
| +4.23 | | | | | | | | | | −12.80 | |
| −14.69 $\delta_2$ | | 8 23.92 | | 50 ~~10.2~~ | | | | | | 50 ~~43.80~~ 4.84 | |
| | +34.5 | 1 1.8 | 56.1 | 357 | 58.96 | 54 46 49.40 | | | 35 | 54 38 54.22 | |
| | 1.53782 | | | | | 38 20.34 | | | | − .30 | +13.52 |
| d | 9.76236 | | | | | *26.12 | 38 54.22 | | | + .0 | |
| | 1.41696 | | | | | | 39 ~~46.46~~ | | | + 13.04 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .78 | |
| +4.35 | | | | | | | | | | −13.20 | |
| −14.80 $\delta_1$ | | 10 10.41 | | 37 39.74 | | | | | | 38 54.84 | |
| | +34.4 | 1 59.3 | 57.9 | 36 | 58.60 | 54 45 49.75 | | | 35 | 37 54.73 | |
| | 1.53656 | | | | | 38 20.78 | | | | − .30 | |
| d | 9.76253 | | | | | *26.05 | 37 54.73 | | | .0 | |
| | 1.41587 | | | | | | 38 ~~46.83~~ | | | 12.97 | +13.45 |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .78 | |
| +4.35 | | | | | | | | | | −13.80 | |
| −14.80 $\delta_2$ | | 10 10.31 | | 37 39.76 | | | | | | 37 54.38 | |
| | +27.5 | 3 22.1 | 18.8 | 13 | ~~58.45~~ 20 | 51 9 32.90 | | | 10 | 51 1 ~~36~~ 21 | |
| | 1.43933 | | | | | 2 3.84 | | | | − .19 | +9.49 |
| d | 9.79856 | | | | | *22.63 | 1 41.21 | | | + 0 | |
| | 1.35467 | | | | | | 2 ~~26.47~~ | | | + 9.13 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .55 | |
| +4.18 | | | | | | | | | | −12.50 | |
| −14.86 $\delta_1$ | | 11 17.22 | | 1 18.3 | | | | | | 1 ~~38.20~~ 33 | |
| | +36.2 | 3 12.7 | 12.6 | 13 | 12.65 | 51 9 35.70 | | | 10 | 1 36.94 | |
| | 1.55871 | | | | | 2 6.78 | | | | − .35 | +9.28 |
| d | 9.79856 | | | | | *29.79 | 1 36.94 | | | − .3 | |
| | 1.47405 | | | | | | 2 ~~36.53~~ | | | + 9.06 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .60 | |
| +4.18 | | | | | | | | | | −13.00 | |
| −14.86 $\delta_2$ | | 11 16.14 | | 1 18.4 | | | | | | 1 33.22 | |
| | +34.4 | 2 46.5 | 41.0 | 57 | 43.75 | 54 25 4.60 | | | 55 | 54 17 9.27 | |
| | 1.53656 | | | | | 17 35.54 | | | | − .30 | +13.10 |
| d | 9.76607 | | | | | *26.27 | 17 9.27 | | | + 0 | |
| | 1.41941 | | | | | | 18 ~~1.81~~ | | | +12.64 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .76 | |
| +4.31 | | | | | | | | | | −13.30 | |
| −14.95 $\delta_1$ | | 12 54.65 | | 16 54.1 | | | | | | 17 9.07 | |
| | +40.9 | 2 37.8 | 36.2 | 57 | 36.50 | 54 25 11.85 | | | 55 | 11.65 | |
| | 1.61172 | | | | | 17 42.88 | | | | − .44 | +12.86 |
| d | 9.76607 | | | | | *31.23 | 17 11.65 | | | − .2 | |
| | 1.49457 | | | | | | 18 ~~14.11~~ | | | + 12.56 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .76 | |
| +4.31 | | | | | | | | | | −13.80 | |
| −14.95 $\delta_2$ | | 12 54.57 | | 16 55.8 | | | | | | 17 ~~10.71~~ | |
| | +36.4 | 1 35.0 | 29.8 | 6 | 32.40 | 51 16 15.95 | | | 5 | 51 8 17.01 | 8 17.51 |
| | 1.56110 | 1 35.0 | 29.8 | 6 | 32.40 | 51 16 15.95 | 8 17.01 | | 5 | − .35 | − .35 |
| +4.17 d | 9.79746 | 51 8 17.01 | 51 8 17.51 | | | 8 46.89 | 9 ~~16.77~~ | | | + 0 | + 0 |
| | 1.47584 | +9.44 | +9.44 | | | 8 46.89 | | | | + 9.23 | + 9.23 |
| ((δ) − D) $\frac{d'}{100}$ | + 35.8 | | | | | *29.88 | 8 17.51 | | | + .56 | + .56 |
| +4.17 | 1.55388 | | | | | − 29.38 | 9 16.27 | | | −11.80 | −11.80 |
| −15.02 $\delta_1$ | 9.79746 | 13 59.67 | 7 59.63 | | | | | | | 8 14.65 | 8 15.15 |
| | 1.46812 | 14 1.94 | 8 0.1 | | | | | | | | |
| | +30.0 | 1 37.4 | 37.2 | 6 | 37.30 | 51 16 11.05 | | | 5 | 17.46 | 18.28 |
| | 1.47712 | 1 37.4 | 37.2 | 6 | 37.30 | 51 16 11.05 | 8 17.46 | | 5 | − .24 | − .22 |
| +4.17 d | 9.79746 | 17.46 | 18.28 | | | 8 42.08 | 9 ~~1.70~~ | | | − .2 | − .2 |
| −15.02 | 1.39136 | +9.50 | +9.52 | | | 8 42.08 | | | | + 9.16 | + 9.16 |
| ((δ) − D) $\frac{d'}{100}$ | + 29.0 | | | | | *24.62 | 8 18.28 | | | + .60 | + .60 |
| +4.17 | 1.46240 | | | | | *23.80 | 9 ~~5.88~~ | | | −12.30 | −12.30 |
| −15.02 $\delta_2$ | 9.79746 | 13 59.71 | 7 59.6 | | | | | | | 8 14.66 | 8 15.50 |
| | 1.37664 | 14 1.99 | 8 0.5 | | | | | | | | |

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Date$_1$ = Apr. 2, 1874 Observer R. A. R. Recorder J. H. M.

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Date$_2$ = Apr. 6, 1874 Observer Recorder

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| Star. α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| h. 14m 44s 51.52 | | 9.7 | 14m 32.3 | 14m 47.1 | 50.5s | 54.0 | 57.3 | 0.6s | 14m | 53.90 | | |
| 13 38.0 | 51 56.7 | 9.4 | 35.8 | | | | | | | + 6.45 | | |
| κ | | | 38.5 | | | | | | | + .10 | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | 35.5 | | | | | + 6.53+02 | 15 | − 2 | | |
| $a_1$ | | | | | | | | | | 0.43 | | |
| | | | | | | | | | | −1.82 | | |
| | | | | | | | | | 14 | 58.61 | | +4 −15 |
| | | 9.5 | 14 41.9 | 14 44.0 | 47.1 | 50.67 | (44.0) | (47.1) | 14 | 50.53 | 1 | |
| | | | 45.6 | | | 50.44 | | | | + 9.66 | | |
| κ | | | 48.1 | | | | | | | + .10 | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | 45.2 | | | | | + 9.74+02 | 15 | − 2 | | |
| $a_2$ | | | | | | | | | | 0.30 | | |
| | | | | | | | | | | −1.73 | | |
| | | | | | | | | | 14 | 58.58 | | +4 −1 |
| 15 57 | 53.56 | 8.0 | 16 8.6 | 15 52.0 | 55.6 | 58.4 | 2.3 | 5.9 | 15 | 58.98 | | |
| 14 42.2 | 54 05 | 8.0 | 11.8 | | | | | | | + 6.45 | | |
| κ | | | 14.1 | | | | | | | + .11 | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | 11.8 | | | | | + 6.53+01 | 16 | − 3 | | |
| $a_1$ | | | | | | | | | | 5.51 | | |
| | | | | | | | | | | −1.92 | | |
| | | | | | | | | | 16 | 3.59 | 00 | +4 −1 |
| | | 8.3 | 15 27.2 | 48.6 | 52.2 | 55.6 | 59.1 | 2.7 | 15 | 58.64 | | |
| | | | 30.7 | | | | | | | + 9.66 | | |
| κ | | | 34.0 | | | | | | | + .11 | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | 30.6 | | | | | + 9.74+01 | 16 | − 3 | | |
| $a_2$ | | | | | | | | | | 5.39 | | |
| | | | | | | | | | | −1.83 | | |
| | | | | | | | | | 16 | 3.56 | | +4. −1 |
| 16 51 | 51.06 | 9.3 | 16 37.0 | 16 52.8 | 55.8 | 59.2 | 2.5 | 5.7 | 16 | 59.24 | | |
| 15 44.7 | 51 9.7 | 9.3 | 40.7 | | | | | | | + 6.45 | | |
| κ | | | 44.5 | | | | | | | + .10 | | |
| 17 23 ((δ) — D) $\frac{\kappa'}{100}$ | | | 40.7 | | | | | + 6.53+02 | 17 | − 2 | | |
| $a_1$ | | | | | | | | | | 5.77 | | |
| | | | | | | | | | | −1.81 | | |
| | | | | | | | | | 17 | 3.96 | 8 | +4. −13 |
| | | 9.5 | 16 41.0 | 16 49.1 | 52.7 | 56.0 | 59.2 | 2.6 | 16 | 55.92 | | |
| | | | 43.8 | | | | | | | + 9.66 | | |
| κ | | | 47.1 | | | | | | | + .10 | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | 44.0 | | | | | + 9.74+02 | 17 | − 2 | | |
| $a_2$ | | | | | | | | | | 5.67 | | |
| | | | | | | | | | | −1.73 | | |
| | | | | | | | | | 17 | 3.98 | 5 | +4 −1 |
| 19 29 | 54.42 | 9.2 | 19 20 | 19 25.8 | 29.3 | 32.7 | 36.4 | 40.0 | 19 | 32.84 | | |
| 18 15.5 | 54 46.2 | 9.2 | 6.5 | | | | | | | + 6.45 | | |
| κ | | | 5.6 | | | | | | | + .11 | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | 6.0 | | | | | + 6.53+01 | 19 | − 3 | | |
| $a_1$ | | | | | | | | | | 39.34 | | |
| | | | | | | | | | | −2.00 | | |
| | | | | | | | | | 19 | 37.34 | 8 | +4 −1 |
| | | 9.0 | 18 35.0 | 19 22.4 | 25.9 | 29.4 | 33.0 | 36.6 | 19 | 29.46 | | |
| | | | 6.3 | | | | | | | + 9.66 | | |
| κ | | | 57.6 | | | | | | | + .11 | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | + 9.74+01 | 19 | − 3 | | |
| $a_2$ | | | | | | | | | | 39.21 | | |
| | | | | | | | | | | −1.91 | | |
| | | | | | | | | | 19 | 37.30 | | +4 −1 |
| 20 46 | 54.43 | 8.3 | 20 22.0 | 20 41.4 | 45.0 | 48.5 | 52.2 | 55.7 | 20 | 48.56 | | |
| 19 32.4 | 54 45.4 | 8.5 | 25.3 | | | | | | | + 6.45 | | |
| κ | | | 28.3 | | | | | | | + .11 | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | 25.2 | | | | | + 6.54+02 | 20 | − 2 | | |
| $a_1$ | | | | | | | | | | 55.10 | | |
| | | | | | | | | | | −2.01 | | |
| | | | | | | | | | 20 | 53.09 | 11 | +4 −1 |
| | | 8.3 | 20 15.3 | 20 38.1 | 41.7 | 45.2 | 48.6 | 52.4 | 20 | 45.20 | | |
| | | | 19.8 | | | | | | | + 9.66 | | |
| κ | | | 22.3 | | | | | | | + .11 | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | 19.1 | | | | | + 9.75+02 | 20 | − 2 | | |
| $a_2$ | | | | | | | | | | 54.96 | | |
| | | | | | | | | | | −1.92 | | |
| | | | | | | | | | 20 | 53.08 | 5 | +4 −1 |

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Runs

| | $T_m - T$ | 4 A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +18.54 | 3′ 3.9″ | 5.93 | 28.4 | 1.60 | 51 53 46.75 | | | 20″ | 51 54 2.82 | |
| d | 1.26482 | | | | | 52 17.69 | | | | − 9 | +10.59 |
| | 9.79063 | | | | | + 14.87 | | 2.82 | | + 0 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.17223 | | | | | | 52 | 32.56 | | + 10.04 | |
| | | | | | | | | | | + 64 | |
| +4.19 | | | | | | | | | | −11.90 | |
| −15.08 $\delta_1$ | | 15 2.82 | | 50 46.4 | | | | | | 53 1.51 | |
| | | 4 12.0 — | | | | | | | 20 | | |
| d | | | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| | | | | | | | | | | −12.50 | |
| +4.19 | | | | | | | | | | | |
| −16.08 $\delta_2$ | | 15 2.77 | | | | | | | | | |
| | + 7.2 | 4 46.7 | 43.8 | 19 | 46.25 | 54 3 2.10 | | | 15 | 53 55 42.90 | |
| | 1.64394 | | | | | 53 55 33.04 | | | | − .5 | +12.94 |
| d | 9.76991 | | | | | − 36.36 | 54 | 56.68 | | + 0 | |
| | 1.56063 | | | | | + 9.86 | 56 | 9.40 | | + 12.25 | |
| ((δ) − D) $\frac{d'}{100}$ | −12.8 | | | | | | 55 | 42.90 | | + .74 | |
| +4.27 | 1.10721 | | | | | | | | | −12.40 | |
| −15.14 $\delta_1$ | 9.76991 | 16 7.87 | | 55 28.3 | | | | | | 55 43.44 | |
| | 0.99390 | | | | | | | | | | |
| | +25.0 | 4 16.0 | 14.3 | 19 | 15.15 | 54 3 33.20 | | | 15 | 44.97 | |
| | 1.39794 | | | | | 56 4.23 | | | | − 16 | +12.72 |
| d | 9.76991 | | | | | − 19.26 | 55 | 44.97 | | − 4 | |
| | 1.28463 | | | | | | 56 | 23.49 | | + 12.18 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .74 | |
| +4.27 | | | | | | | | | | −13.60 | |
| −15.14 $\delta_2$ | | 16 7.83 | | 55 29.6 | | | | | | 55 44.69 | |
| | +18.5 | 0 5.6 | 2.9 | 10 | 4.25 | 51 12 44.10 | | | 10 | 51 4 39.83 | |
| | 1.26717 | | | | | 5 15.04 | | | | − 9 | +9.65 |
| d | 9.79809 | | | | | − 15.21 | 4 | 59.83 | | + 0 | |
| | 1.18204 | | | | | | 5 | 30.25 | | + 9.18 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .56 | |
| +4.15 | | | | | | | | | | −11.60 | |
| −15.20 $\delta_1$ | | 17 8.13 | | 4 42.7 | | | | | | 4 57.88 | |
| | +11.9 | 0 7.8 | 8.0 | 10 | 7.90 | 51 12 40.45 | | | 10 | 5 1.70 | |
| | 1.07555 | | | | | 5 11.48 | | | | − 4 | +9.67 |
| d | 9.79809 | | | | | − 9.78 | | 1.70 | | − 0 | |
| | 0.99042 | | | | | | 5 | 21.26 | | + 9.11 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .60 | |
| +4.15 | | | | | | | | | | −12.10 | |
| −15.20 $\delta_2$ | | 17 8.10 | | 4 44.1 | | | | | | 4 59.27 | |
| | +26.8 | 4 41.0 | 35.0 | 34 | 38.00 | 54 48 10.35 | | | 30 | 54 40 21.02 | |
| | 1.42813 | | | | | 40 41.29 | | | | − .18 | +13.66 |
| d | 9.76200 | | | | | − 20.27 | | 21.02 | | + 0 | |
| | 1.30698 | | | | | | 40 | 1.56 | | + 13.06 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .78 | |
| +4.29 | | | | | | | | | | −12.40 | |
| −15.34 $\delta_1$ | | 19 41.64 | | 40 6.9 | | | | | | 40 22.28 | |
| | +31.9 | 4 35.4 | 31.4 | 34 | 33.65 | 54 48 14.70 | | | 30 | 21.60 | |
| | 1.50379 | | | | | 40 45.73 | | | | − .26 | +13.47 |
| d | 9.76200 | | | | | − 24.13 | | 21.69 | | − 4 | |
| | 1.38257 | | | | | | 40 | 9.86 | | + 12.99 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .78 | |
| +4.29 | | | | 6. | | | | | | −13.00 | |
| −15.34 $\delta_2$ | | 19 41.59 | | 40 7.7 | | | | | | 40 22.07 | |
| | +23.4 | 4 26.9 | 20.1 | 34 | 23.00 | 54 48 25.35 | | | 30 | 54 40 38.59 | |
| | 1.36922 | | | | | 40 56.29 | | | | − 14 | +13.41 |
| d | 9.76200 | | | | | − 17.70 | | 38.59 | | + 0 | |
| | 1.24800 | | | | | | 40 | 13.79 | | + 13.07 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .78 | |
| +4.28 | | | | | | | | | | −12.30 | |
| −15.41 $\delta_1$ | | 20 57.39 | | 40 24.6 | | | | | | 40 40.00 | |
| | +26.1 | 4 24.0 | 19.5 | 34 | 19.75 | 54 48 28.60 | | | 30 | 39.90 | |
| | 1.41664 | | | | | 40 59.63 | | | | − .17 | +13.57 |
| d | 9.76200 | | | | | − 19.73 | | 39.90 | | − 4 | |
| | 1.29542 | | | | | | 40 | 19.76 | | + 13.02 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .78 | |
| +4.28 | | | | | | | | | | −12.90 | |
| −15.41 $\delta_2$ | | 20 57.33 | | 40 25.2 | | | | | | 40 40.57 | |

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Date$_1$ = Apr. 2, 1874 Observer W. A. K. Recorder J. F. M.

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Date$_2$ = Apr. 6, 1874 Observer Recorder

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| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | 51 54.39 | | 9.2 | 21 | 21 47.2 | 50.8 | 54.4 | 57.9 | 1.6 | 21 | 54.38 | | |
| 20 | 36.9 | 54 42.0 | 9.3 | 21.9 | | | | | | | + 6.45 | | |
| κ | | | | 21.5 | | | | | | | + .11 | | |
| | | | | 25.0 | | | | | | | − .3 | | |
| | | | | 25.7 | | | | | + 6.53+01 | 22 | 0.91 | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | − 2.02 | | |
| $\alpha_1$ | | | | | | | | | | 21 | 58.89 | 90 | +4.2 −15 |
| | | | 8.3 | 21 30.7 | 21 44.1 | 47.6 | 51.0 | 54.5 | 58.1 | 21 | 51.06 | | |
| κ | | | | 35.5 | | | | | | | + 9.6 | 6 | |
| | | | | 38.0 | | | | | | | + .11 | | |
| | | | | 34.7 | | | | | | | − .3 | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | + 9.74+01 | 22 | 0.81 | | |
| $\alpha_2$ | | | | | | | | | | | − 1.93 | | |
| | | | | | | | | | | 21 | 58.87 | 8 | +4.2 −15 |
| 22 | 53 50.27 | | 9.4 | 22 20.9 | 22 33.6 | 37.9 | 22 | 5.5 | 8 | 23 | 22.20 | | |
| 21 | 47.2 | 50 31.6 | 9.2 | 34.6 | | | | | | | + 6.48 | 5 | |
| κ | | | | 36.8 | | | | | | | + .10 | | |
| | | | | 34.1 | | | | | | | − .2 | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | + 6.53+02 | 23 | 8.74 | | |
| $\alpha_1$ | | | | | | | | | | | − 1.84 | | |
| | | | | | | | | | | 23 | 6.89 | 91 | +4.0 −15 |
| | | | 9.2 | 22 39.1 | 22 52.3 | 55.6 | 58.8 | 2.0 | 5.2 | 22 | 58.78 | | |
| κ | | | | 44.0 | | | | | | | + 9.6 | 6 | |
| | | | | 46.0 | | | | | | | + .10 | | |
| | | | | 42.0 | | | | | | | − .2 | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | + 9.74+02 | 23 | 8.53 | | |
| $\alpha_2$ | | | | | | | | | | | − 1.75 | | |
| | | | | | | | | | | 23 | 6.77 | 9 | +4.1 −15 |
| 24 | 00 50.43 | | 9.0 | 23 43.4 | 24 0.1 | 3.4 | 6.4 | 9.6 | 12.9 | 24 | 6.48 | | |
| 22 | 54.7 | 50 47.4 | 8.9 | 46.3 | | | | | | | + 6.48 | 5 | |
| κ | | | | 49.7 | | | | | | | + .10 | | |
| | | | | 46.5 | | | | | | | − .2 | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | + 6.53+01 | 24 | 13.02 | | |
| $\alpha_1$ | | | | | | | | | | | − 1.86 | | |
| | | | | | | | | | | 24 | 11.16 | | +4.0 −15 |
| | | | 9.0 | 23 28.8 | 23 36.5 | 39.8 | 43.0 | 6.4 | 9.6 | 24 | 3.06 | | |
| κ | | | | 32.1 | | | | | | | + 9.6 | 6 | |
| | | | | 35.0 | | | | | | | + .10 | | |
| | | | | 32.0 | | | | | | | − .2 | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | + 9.74+01 | 24 | 13.01 | | |
| $\alpha_2$ | | | | | | | | | | | 12.86 − 1.78 | 3 | |
| | | | | | | | | | | 24 | 11.08 | | +4.0 −15 |
| 25 | 22 54.38 | | 6.5 | 24 31.7 | 25 17.4 | 21.0 | 24.6 | 28.4 | 31.7 | 25 | 24.62 | | |
| 24 | 8.2 | 54 41.2 | 7.4 | 33.4 | | | | | | | + 6.48 | 5 | |
| κ | | | | 28.2 | | | | | | | + .11 | | |
| | | | | 33.1 | | | | | | | − .3 | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | + 6.53+02 | 25 | 3.16 | | |
| $\alpha_1$ | | | | | | | | | | | − 2.06 | | |
| | | | | | | | | | | 25 | 28.89 | | +4.1 −15 |
| | | | | | | | | | | | 29.04 | 11 | |
| | | | 6.7 | 25 0.0 2.5 | 25 14.1 | 17.7 | 21.1 | 24.7 | 28.4 | 25 | 21.20 | | |
| κ | | | | 4.7 | | | | | | | + 9.6 | 8 | |
| | | | | 2.4 | | | | | | | + .11 | | |
| | | | | | | | | | | | − .3 | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | + 9.74+02 | 25 | 30.95 | | |
| $\alpha_2$ | | | | | | | | | | | − 1.97 | | |
| | | | | | | | | | | 25 | 28.97 | 9 | +4.1 −15 |
| κ | | | | | | | | | | | | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $\alpha_1$ | | | | | | | | | | | | | |

Single Observations

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 20 15 | 51.37 | 9.0 | 19 39.5 | 20 16.4 | 19.7 | 22.9 | 26.3 | 29.9 | 20 | 23.04 | | |
| Apr. 2 | 19 4.5 | 81 39.6 | 8.5 | 4.2 | | | | | | | + 6.39 | 42 | |
| κ | | | | 6.6 | | | | | | | + .10 | | |
| | | | | 63.4 | | | | | + 6.50+01 | | − .2 | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | 20 | 29.51 | | |
| $\alpha_2$ | | | | | | | | | | | − 1.28 | | |
| | | | | | | | | | | 20 | 28.23 | 7 | +4.1 −11 |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +29.83 | 2 54.2 | 49.3 | 37 | 51.775 | 54 44 56.60 | | | 36 | 54 37 5.35 | Examin |
| d | 1.46687 | | | | | 37 27.54 | | | | − 22 | +13.58 |
| | 9.76253 | | | | | ÷ 22.19 | | 5.35 | | + 0 | |
| | 1.34618 | | | | | | 37 | 49.73 | | +13.02 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 78 | |
| | | | | | | | | | | −12.20 | |
| +4.27 δ₁ | | 22 3.17 | | 36 51.3 | | | | | | 37 6.73 | |
| −15.47 | | | | | | | | | | | |
| | +16.4 | 3 1.9 | 59.6 | 37.8 | 0.75 | 54 43 47.60 | | | 35 | 38 6.21 | |
| d | 1.21484 | | | | | 37 18.63 | | | | − 7 | +13.66 |
| | 9.76253 | | | | | ÷ 12.42 | | 6.21 | | − 2 | |
| | 1.09415 | | | | | | 38 | 31.05 | | + 12.95 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .78 | |
| | | | | | | | | | | −12.80 | |
| +4.27 δ₂ | | 22 3.15 | | 36 51.6 | | | | | | 37 7.05 | |
| −15.47 | | | | | | | | | | | |
| | +28.1 | 3 8.7 | 4.9 | 48 | 6.80 | 50 34 41.55 | | | 45 | 50 26 49.08 | |
| d | 1.44871 | | | | | 27 12.49 | | | | − 21 | +8.82 |
| | 9.80397 | | | | | ÷ 23.41 | 26 | 49.08 | | + 0 | |
| | 1.36946 | | | | | | 27 | 35.90 | | + .851 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .52 | |
| | | | | | | | | | | −11.00 | |
| +4.10 δ₁ | | 23 18.01 | | 26 31.4 | | | | | | 26 46.90 | |
| −15.54 | | | | | | | | | | | |
| | +18.8 | 3 16.9 | 17.0 | 48 | 16.95 | 50 34 31.40 | | | 45 | 49.27 | |
| d | 1.19866 | | | | | 27 2.43 | | | | − 4 | +8.89 |
| | 9.80397 | | | | | ÷ 13.16 | 26 | 49.27 | | + 3 | |
| | 1.11941 | | | | | | 27 | 15.59 | | + 8.45 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .54 | |
| | | | | | | | | | | −11.50 | |
| +4.10 δ₂ | | 23 10.89 | | 26 31.1 | | | | | | 26 46.66 | |
| −15.54 | | | | | | | | | | | |
| | +20.0 | 3 8.0 | 3.9 | 39 | 5.95 | 50 49 42.40 | | | 30 | 50 42.1 56.77 | |
| d | 1.30103 | | | | | 43.2 13.34 | | | | − 11 | +9.22 |
| | 9.80151 | | | | | ÷ 16.57 | 42.1 | 56.77 | | + 0 | |
| | 1.21932 | | | | | | 43 | 29.91 | | + 8.80 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .53 | |
| | | | | | | | | | | −11.00 | |
| +4.10 δ₁ | | 24 15.26 | | 41 39.4 | | | | | | 42 54.99 | |
| −15.60 | | | | | | | | | | 41 | |
| | +31.3 | 2 56.7 | 56.0 | 32 | 56.35 | 50 49 52.00 | | | 30 | 41 42 57.09 | Examin |
| d | 1.49554 | | | | | 42 23.08 | | | | − .26 | |
| | 9.80166 | | | | | ÷ 25.94 | 41 | 57.09 | | 0 | +9.18 |
| | 1.41398 | | | | | | 42 | 31.97 | | + 8.87 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .57 | |
| | | | | | | | | | | − 11.50 | |
| +4.10 δ₂ | | 24 15.13 | | 41 39.2 | | | | | | 41 54.77 | |
| −15.60 | | | | | | | | | | | |
| | +29.5 | 3 48.1 | 42.1 | 38 | 45.05 | 54 44 3.30 | | | 35 | 54 36 11.88 | |
| d | 1.46982 | | | | | 36 34.24 | | | | − 22 | +13.56 |
| | 9.76289 | | | | | ÷ 22.36 | | 11.88 | | + 0 | |
| | 1.34949 | | | | | | 36 | 56.60 | | + 13.00 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .78 | |
| | | | | | | | | | | − 12.00 | |
| +4.25 δ₁ | | 25 33.36 | | 35 57.8 | | | | | | 36 13.44 | |
| −15.67 | | | | | | | | | | | |
| | +18.8 | 3 53.5 | 52.4 | 38 | 52.95 | 54 43 55.40 | | | 35 | 12.18 | |
| d | 1.27416 | | | | | 36 26.48 | | | | − 9 | +13.56 |
| | 9.76289 | | | | | ÷ 14.25 | | 12.18 | | − 4 | |
| | 1.15383 | | | | | | 36 | 40.68 | | + 12.91 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .78 | |
| | | | | | | | | | | − 12.60 | |
| +4.25 δ₂ | | 25 33.24 | | 35 57.5 | | | | | | 36 13.14 | |
| −15.67 | | | | | | | | | | | |
| | | 2 55.0 | 55.3 | | | | | | 35 | | |
| d | | | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| δ₁ | | | | | | | | | | | |
| | +19.6 | 2 58.0 | 55.3 | 37 | 56.65 | 51 44 51.70 | | | 35 | 51 37 6.72 | |
| d | 1.29226 | | | | | 37 22.64 | | | | − .11 | +10.24 |
| | 9.79304 | | | | | ÷ 15.92 | | 6.72 | | + 0 | |
| | 1.20208 | | | | | | 37 | 38.56 | | + 9.74 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .61 | |
| | | | | | | | | | | − 14.80 | |
| +4.45 δ₂ | | 20 32.72 | | 36 50.6 | | | | | | 37 2.16 | |
| −11.54 | | | | | | | | | | | |

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Single Observations.

Date$_1$ = Apr. 2, 1874 Observer W. A. R. Recorder J. F. M. Date$_2$ = Apr. 6/1874 Observer Recorder

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Ru

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | h m s | ° ′ ″ | | m s | m s | m s | m s | m s | m s | m | s | | |
| Apr. 2 | 34 15 | 51 51 | 9.0 | 33 52.3 | 34 16.8 | 19.9 | 23.3 | 26.8 | 30.2 | 34 | 23.40 | | |
| | 33 5.5 | 51 53.9 | 9.1 | 13.1 | | | | | | | +6.4×3 | | |
| | κ | | | 18.1 | | | | | | | +.10 | | |
| | | | | 35.2 | | | | | + 6.51+02 | | − 2 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 34 | 29.89 | | |
| | | | | | | | | | | | −1.44 | | |
| | $c_1$ | | | | | | | | | 34 | 28.47 | 9 | +4 −12 |
| | κ | | | | | | | | | | | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $c_2$ | | | | | | | | | | | | |
| 8 | 37 12 | 53.32 | 9.0 | 36 33.8 | 37 6.5 | 10.0 | 13.5 | 17.0 | 20.6 | 37 | 13.50 | | |
| Apr. 2 | 35 55.8 | 53 34.7 | 9.0 | 56.4 | | | | | | | +6.4×3 | | |
| | κ | | | 0.4 | | | | | | | + .11 | | |
| | | | | 56.4 | | | | | + 6.51+01 | | − 3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 37 | 19.99 | | |
| | | | | | | | | | | | −1.53 | | |
| | $a_1$ | | | | | | | | | 37 | 18.46 | 9 | +4 −12 |
| 8 | 38 15 | 54.53 | 9.0 | 37 56.0 | 38 10.8 | 14.6 | 18.0 | 21.8 | 25.5 | 38 | 18.14 | | |
| Apr. 2 | 36 59.2 | 54 56.1 | 8.6 | 59.3 | | | | | | | +6.4×3 | | |
| | κ | | | 3.2 | | | | | | | + .11 | | |
| | | | | 59.0 | | | | | + 6.51+02 | | − 3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 38 | 24.63 | | |
| | | | | | | | | | | | −1.58 | | |
| | $a_2$ | | | | | | | | | 38 | 23.07 | 9 | +4 −12 |
| 9 | 17 23 | 51.54 | 9.5 | 17 35.6 | 17 24.2 | 27.7 | 31.0 | 34.5 | 37.8 | 17 | 31.04 | | |
| Apr. 2 | 16 16.7 | 51 58.2 | 9.4 | 38.9 | | | | | | | +6.45 | | |
| | κ | | | 42.6 | | | | | | | + .10 | | |
| | | | | 31.0 | | | | | + 6.53+01 | | − 2 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 17 | 37.57 | | |
| | | | | | | | | | | | −1.85 | | |
| | $a_1$ | | | | | | | | | 17 | 35.72 | 3 | +4 −15 |
| | κ | | | | | | | | | | | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_2$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_1$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_2$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_1$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_2$ | | | | | | | | | | | | |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +28.2 | 4′ 13.1′ | 9.8′ | 24′ | 11.45 | 51 58 36.90 | | | 20′ | 51 50 45.05 | |
| | 1.45025 | | | | | 51 7.84 | | | | − 21 | +10.41 |
| d | 9.79079 | | | | | ✶22.79 | 50 45.05 | | | + 0 | |
| | 1.35782 | | | | | | 51 30.63 | | | + 9.99 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | + 63 | |
| | | | | | | | | | | − 14.10 | |
| +4.40 $\delta_1$ | | 34 32.89 | | 50 28.8 | | | | | | 50 41.36 | |
| −12.52 | | | | | | | | | | | |
| | | 4 ~~52.9~~ | 48.4 | | | | | | 40 | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |
| | | | | | | | | | 40 | | |
| | +16.6 | ~~3~~ ~~46.1~~ | 48.9 | 24 | 50.90 | 51 37 57.45 | | | ~~20~~ | 53 30 14.97 | |
| | 1.22011 | 4 52.9 | | | | 30 28.39 | | | | − 7 | +12.43 |
| d | 9.79095 | | | | | ✶13.42 | | 14.97 | | + 0 | |
| | 1.12784 | | | | | | 50 ~~41.84~~ | | | + 11.78 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | + .72 | |
| | | | | | | | | | | − 14.50 | |
| +4.47 $\delta_1$ | | 37 22.96 | | 30 0.2 | | | | | | 30 12.90 | |
| −12.71 | | | | | | | | | | | |
| | +18.6 | 3 46.1 | 41.9 | 23 | 44.00 | 54 59 4.35 | | | 20 | 54 51 21.28 | E4 Strothe |
| | 1.26951 | | | | | 51 35.29 | | | | − 8 | |
| d | 9.76003 | | | | | ✶14.01 | | 21.28 | | + 0 | |
| | 1.14632 | | | | | | 51 ~~49.30~~ | | | ~~+44~~ 13.40 +40.2 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | + .70 | |
| | | | | | | | | | | − 14.80 | |
| +4.54 $\delta_2$ | | 38 27.63 | | 51 7.4 | | | | | | 51 ~~13.70~~ 20.50 | |
| −12.79 | | | | | | | | | | | |
| | −8.0 | 1 15.5 | 11.0 | 21 | 13.25 | 52 1 35.10 | | | 20 | 51 54 12.50 | |
| | 0.90309 | | | | | 51 54 6.04 | | | | − 2 | +10.68 |
| d | 9.79031 | | | | | +6.46 | 54 12.50 | | | + 0 | |
| | 0.81018 | | | | | | 53 ~~59.58~~ | | | +10.06 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | + 64 | |
| | | | | | | | | | | − 11.80 | |
| +4.18 | | | | | | | | | | | |
| −15.23 $\delta_1$ | | 17 39.91 | | 53 56.2 | | | | | | 54 11.38 | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |

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Date$_1$ = Apr. 16, 1874 Observer R.a.K.
n = +05 Recorder J.F.M.

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Date$_2$ = Apr. 22, 1874 Observer
n = −03 Recorder

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| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | 10 54.06 | | 8.0 | 30 48.5 | 30 52.0 | 52.0 | 2.6 | 6.1 | — | 30 | 5904 | | |
| 29 | 56.4 | 54 9.1 | 7.0 | 37.1 | 30 33.5 | | | | | | + 19.53 | | 6.60 |
| | | | | 54.6 | | | | | | | − 7 | | |
| | | | | 51.4 | | | | | + 19.43 | | − 3 | | |
| K | | | | | | | | | | 31 | 18.47 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | −1.76 | | |
| $\alpha_1$ | | | | | | | | | | 31 | 16.71 | | +4.1 −15. |
| | | | 8.3 | 30 11.2 | 30 45.4 | 48.9 | 52.5 | 55.8 | 59.6 | 30 | 52.44 | | |
| | | | | 15.1 | | | | | | | + 25.83 | | |
| | | | | 18.2 | | | | | | | − 4 | | |
| | | | | 14.8 | | | | | + 25.76 | | − 3 | | |
| K | | | | | | | | | | 31 | 18.20 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | −1.60 | | |
| $\alpha_2$ | | | | | | | | | | 31 | 16.60 | | +4.1 −15. |
| 32 | 15 54.31 | | 9.0 | 31 48.0 | 31 56.0 | 58.7 | 3.2 | 6.8 | 10.3 | 32 | 320 | | |
| 31 | 0.9 | 54 34.5 | 8.4 | 51.5 | | | | | | | + 19.53 | | |
| | | | | 54.3 | | | | | | | − 7 | | |
| | | | | 51.3 | | | | | + 19.43 | | − 3 | | |
| K | | | | | | | | | | 32 | 22.63 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | −1.77 | | |
| 33 33 $\alpha_1$ | | | | | | | | | | 32 | 20.86 | | +4.2 −16. |
| | | | 8.7 | 31 31.1 | 31 49.5 | 53.0 | 56.6 | 6.1 | 2.7 | 31 | 5658 | | |
| | | 32 | 58 | 35.2 | | | | | | | + 25.83 | | |
| | | | | 39.6 | | | | | | | − 4 | | |
| | | | | 34.6 | | | | | + 25.76 | | − 3 | | |
| K | | | | | | | | | | 32 | 22.34 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | −1.62 | | |
| $\alpha_2$ | | | | | | | | | | 32 | 20.72 | | +4. −16. |
| 34 | 32 53.42 | | 8.8 | 34 9.3 | 34 11.5 | 15.0 | 18.6 | 22.0 | 25.6 | 34 | 1854 | | |
| 33 | 19.1 | 53 46.5 | 8.3 | 12.1 | | | | | | | + 19.53 | | 6 |
| | | | | 13.5 | | | | | | | − 7 | | |
| | | | | 11.6 | | | | | + 19.43 | | − 3 | | |
| K | | | | | | | | | | 34 | 37.97 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | −1.77 | | |
| $\alpha_1$ | | | | | | | | | | 34 | 36.20 | | +4.1 −16. |
| | | | 8.5 | 33 54.1 | 34 4.9 | 8.5 | 12.0 | 15.3 | 18.9 | 34 | 1192 | | |
| | | | | 57.1 | | | | | | | + 25.83 | | |
| | | | | 6.5 | | | | | | | − 4 | | |
| | | | | 57.4 | | | | | + 25.76 | | − 3 | | |
| K | | | | | | | | | | 34 | 37.68 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | −1.62 | | |
| $\alpha_2$ | | | | | | | | | | 34 | 3606 | | +4. −16. |
| 35 | 56 53.23 | | 9.1 | 35 22.5 | 35 40.2 | 43.6 | 47.0 | 50.6 | 53.9 | 35 | 47.06 | | |
| 34 | 46.5 | 53 27.6 | 8.3 | 25.4 | | | | | | | + 19.53 | | 5 |
| | | | | 29.0 | | | | | | | − 7 | | |
| | | | | 28.6 | | | | | + 19.43 | | − 3 | | |
| K | | | | | | | | | | 36 | 649 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | −1.77 | | |
| $\alpha_1$ | | | | | | | | | | 36 | 4.72 | | +4. −16. |
| | | | 8.4 | 35 4.6 | 35 33.6 | 36.8 | 40.5 | 44.3 | 47.4 | 35 | 40.52 | | |
| | 37 2 | | | 9.9 | | | | | | | + 25.83 | | |
| | 37 46 | | | 10.8 | | | | | | | − 4 | | |
| | 38 59 | | | 7.8 | | | | | + 25.76 | | − 3 | | |
| K | 41 31 | | | | | | | | | 36 | 628 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | −1.62 | | |
| $\alpha_2$ | | | | | | | | | | 36 | 4.66 | | +4. −16 |
| 42 | 25 52.37 | | 8.4 | 42 3.1 | 42 10.1 | 13.5 | 17.0 | 20.3 | 23.8 | 42 | 16.94 | | |
| 41 | 17.1 | 52 42.0 | 8.5 | 6.5 | | | | | | | + 19.53 | | 6 |
| | | | | 10.6 | | | | | | | − 6 | | |
| | | | | 6.7 | | | | | + 19.45 | | − 2 | | |
| K | | | | | | | | | | 42 | 36.39 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | −1.79 | | |
| $\alpha_1$ | | | | | | | | | | 42 | 34.60 | | +4 −16 |
| | | | 8.6 | 41 48.3 | 42 2.5 | 6.8 | 10.3 | 13.7 | 17.0 | 42 | 40.26 | | |
| | | | | 48.5 | | | | | | | + 25.83 | | |
| | | | | 51.4 | | | | | | | − 4 | | |
| | | | | 48.1 | | | | | + 25.77 | | − 2 | | |
| K | | | | | | | | | | 42 | 36.02 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | −1.65 | | |
| $\alpha_2$ | | | | | | | | | | 42 | 34.38 | | +4. −16 |

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Runs $\alpha_{eq}$ = +10 16 $\overset{"}{.}$86 (aft. 16) 21.15 (aft. 22)
−.03 −.04

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | 1.44 δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +7.86 | 3 54.9 | 49.1 | 28 | 52.00 | 53 53 56.35 | | | 25 | 54 4 7.03 | |
| | 10.88081 | | | | | 54 4 12.77 | | | | − 2 | +12.63 |
| 6.60 d | 9.76852 | | | | | −5.74 | | | | − 12 | |
| | 0.75925 $_n$ | | | | | | 4 7.03 | | | + 12.27 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 60 | |
| | | | | | | | | | | −13.30 | |
| +4.19 $\delta_1$ | | 31 20.90 | | 3 50.8 | | | | | | ~~5 16.36~~ 4 | 8680 |
| −15.98 | | | | | | | | | | | |
| | + 37.6 | 3 28.0 | 25.0 | 28 | 31.50 | 53 54 16.85 | | | 25 | 4 ~~35 16~~ 9.59 | |
| | 1.57519 | | | | | 54 4 38.00 | | | | − 37 | +12.12 |
| d | 9.76835 | | | | | −2 84 | | | | − 14 | |
| | 1.45346 $_n$ | | | | | | 4 35.16 | | | + 12.13 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 50 | |
| | | | | | | | | | | −13.90 | |
| +4.19 $\delta_2$ | | 31 20.49 | | 3 51.8 | | | | | | 4 ~~33.88~~ 7.81 | |
| −15.98 | | | | | | | | | | | |
| | + 11.9 | 3 ~~42.1~~ | ~~54.0~~ | 3 | 51.25 | 54 18 57.10 | | | 0 | 54 29 4.62 | |
| 6.2 d | 1.07555 | 54.0 | 46.5 | | | 29 13.52 | | | | − 4 | +13.12 |
| | 9.76413 | | | | | −8.80 | | | | − 11 | |
| | 0.94960 $_n$ | | | | | | 29 4.62 | | | + 12.72 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 55 | |
| | | | | | | | | | | −13.40 | |
| +4.20 $\delta_1$ | | 32 25.06 | | 28 48.8 | | | | | | ~~29 4.34~~ | 4.78 |
| −16.03 | | | | | | | | | | | |
| | + 22.0 | 3 42.1 | 47.9 | 3 | 45.00 | 54 19 3.35 | | | 0 | 804 | |
| | 1.34242 | | | | | 29 24.50 | | | | − 13 | +12.80 |
| d | 9.76413 | | | | | −16.46 | | | | − 15 | |
| | 1.21647 $_n$ | | | | | | 29 8.04 | | | + 12.58 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 50 | |
| | | | | | | | | | | −14.10 | |
| +4.20 $\delta_2$ | | 32 24.92 | | 28 50.7 | | | | | | 29 6.74 | |
| −16.03 | | | | | | | | | | | |
| | + 6.9 | 1 ~~48.9~~ | ~~43.6~~ | 51 | 46.25 | 53 31 2.10 | | | 50 | 53 41 13.26 | |
| | 0.83885 | | | | | 41 18.52 | | | | − 2 | +12.29 |
| 6.2 d | 9.77250 | | | | | −5.26 | | | | − 5 | |
| | 0.72124 $_n$ | | | | | | 41 13.26 | | | + 11.86 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 50 | |
| | | | | | | | | | | −13.10 | |
| +4.15 $\delta_1$ | | 34 40.35 | | 40 56.4 | | | | | | ~~41 13.46~~ | 12.89 |
| −16.16 | | | | | | | | | | | |
| | + 14.5 | 1 38.0 | 44.9 | 51 | 41.45 | 53 31 6.90 | | | 50 | 16.97 | |
| | 1.16137 | | | | | 41 28.05 | | | | − 5 | +12.08 |
| d | 9.77250 | | | | | −11.08 | | | | − 7 | |
| | 1.04479 $_n$ | | | | | | 41 16.97 | | | + 11.72 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 48 | |
| | | | | | | | | | | −13.70 | |
| +4.15 $\delta_2$ | | 34 40.21 | | 40 59.2 | | | | | | 41 15.35 | |
| −16.16 | | | | | | | | | | | |
| | + 21.5 | 0 46.3 | 40.8 | 10 | 43.05 | 53 1 $^{2}$ 5.30 | | | 10 | 53 22 5.19 | |
| 5.4 d | 1.33244 | | | | | ~~21.72~~ 21.72 | | | | − 12 | |
| | 9.77592 | | | | | −16.53 | | | | + ~~10.02~~ 11.44 | +11.92 |
| | 1.21828 $_n$ | | | | | | 22 5.19 | | | + 56 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 50 | |
| | | | | | | | | | | −12.90 | |
| +4.13 $\delta_1$ | | 36 8.85 | | 21 48.4 | | | | | | 22 ~~7.24~~ | 4.65 |
| −16.23 | | | | | | | | | | | |
| | + 32.7 | 0 32.0 | 39.7 | 10 | 35.85 | 53 12 12.40 | | | 10 | 22 8.42 | |
| | 1.51455 | | | | | 22 33.55 | | | | − 28 | |
| d | 9.77575 | | | | | −25.13 | | | | − 03 | |
| | 1.40022 $_n$ | | | | | | 22 8.42 | | | +11.43 | +11.59 |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 47 | |
| | | | | | | | | | | −13.60 | |
| +4.13 $\delta_2$ | | 36 8.79 | | 21 50.2 | | | | | | 22 6.41 | |
| −16.23 | | | | | | | | | | | |
| | + 10.2 | 1 20.0 | 15.3 | 56 | 17.65 | 52 26 30.70 | | | 55 | 52 36 39.14 | |
| 6.8 d | 1.00860 | | | | | 36 47.12 | | | | − 3 | +11.11 |
| | 9.78329 | | | | | −7.98 | | | | − 4 | |
| | 0.90181 $_n$ | | | | | | 36 39.14 | | | + 10.70 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 48 | |
| | | | | | | | | | | −12.30 | |
| +4.06 $\delta_1$ | | 42 38.66 | | 36 21.8 | | | | | | 36 ~~37.95~~ | 38.39 |
| −16.56 | | | | | | | | | | | |
| | + 21.9 | 1 6.9 | 14.0 | 56 | 10.45 | 52 26 37.90 | | | 55 | 41.93 | |
| | 1.34044 | | | | | 36 59.05 | | | | − 13 | +10.82 |
| d | 9.78329 | | | | | −17.12 | | | | − 5 | |
| | 1.23365 $_n$ | | | | | | 36 41.93 | | | + 10.59 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 41 | |
| | | | | | | | | | | −13.00 | |
| +4.06 $\delta_2$ | | 42 38.44 | | 36 23.9 | | | | | | 36 ~~39.75~~ | |
| −16.56 | | | | | | | | | | | |

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294

Date$_1$ = April 16, 1874 Observer J.A.R.
$n$ = −05 Recorder J.F.M.

295

Date$_2$ = Apr. 22, 1874 Observer
$n$ = −03 Recorder

20

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_o$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 43 | 25 | 52 .11 | 8.4 | 42 55.5 | 43 11.9 | 15.3 | 18.8 | 22.1 | 25.6 | 43 | 18.74 | | |
| 42 | 17.7 | 52 16.0 | 8.5 | 57.7 | | | | | | | +19.53 | | |
| κ | | | | 2.6 | | | | | | | − 6 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 58.4 | | | | | + 19.45 | | − 2 | | |
| $c_1$ | | | | | | | | | | 43 | 37.19 | | |
| | | | | | | | | | | | −1.79 | | |
| | | | | | | | | | | 43 | 36.40 | | |
| | | | 8.7 | | 43 56.6 | 9.0 | 12.8 | 15.5 | 19.0 | 43 | 12.28 | | |
| κ | | | | | | | | | | | +25.83 | | |
| | | | | | | | | | | | − 4 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | + 25.77 | | − 2 | | |
| $c_2$ | | | | | | | | | | 43 | 38.04 | | |
| | | | | | | | | | | | −1.65 | | |
| | | | | | | | | | | 43 | 36.40 | | |
| 44 | 17 | 53.12 | 8.5 | 43 53.0 | 44 2.5 | 5.8 | 9.2 | 12.7 | 16.2 | 44 | 9.28 | | |
| 43 | 8.7 | 53 16.4 | 8.8 | 58.4 | | | | | | | +19.53 | | |
| κ | | | | 1.2 | | | | | | | − 7 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 58.2 | | | | | + 19.43 | | − 3 | | |
| $a_1$ | | | | | | | | | | 44 | 28.71 | | |
| | | | | | | | | | | | −1.84 | | |
| | | | | | | | | | | 44 | 26.87 | | |
| | | | 8.6 | 43 40.7 | 43 53.8 | 59.4 | 2.9 | 6.3 | 9.7 | 44 | 2.82 | | |
| | | | | 45.4 | | | | | | | +25.83 | | |
| κ | | | | 46.8 | | | | | | | − 4 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 42.6 | | | | | + 25.76 | | − 3 | | |
| $a_2$ | | | | | | | | | | 44 | 28.58 | | |
| | | | | | | | | | | | −1.69 | | |
| | | | | | | | | | | 44 | 26.89 | | |
| 45 | 23 | 51.19 | 9.2 | 44 49.6 | 45 11.6 | 15.0 | 18.1 | 21.6 | 24.8 | 45 | 18.22 | | |
| 44 | 19.7 | 51 23.5 | 8.9 | 53.0 | | | | | | | +19.53 | | |
| κ | | | | 56.9 | | | | | | | − 6 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 52.2 | | | | | + 19.45 | | − 2 | | |
| $a_1$ | | | | | | | | | | 45 | 37.67 | | |
| | | | | | | | | | | | −1.77 | | |
| | | | | | | | | | | 45 | 35.90 | | |
| | | | 8.7 | 44 43.4 | 45 5.2 | 8.5 | 11.8 | 15.0 | 18.4 | 45 | 11.78 | | |
| | | 46 30 | | 45.9 | | | | | | | +25.84 | | |
| κ | | 47 46 | | 48.4 | | | | | | | − 4 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | 52 10 | | 49.7 | | | | | + 25.78 | | − 2 | | |
| | | 53 36 | | | | | | | | 45 | 37.56 | | |
| $a_2$ | | 55 12 | | | | | | | | | −1.64 | | |
| | | 58 37 | | | | | | | | | .64 | | |
| | | 59 54 −10 | | 9 17 | | | | | | 45 | 35.92 | | |
| 10 10 | 51 | 52.03 | 6.9 | 10 18.5 | 10 33.8 | 37.4 | 40.6 | 44.0 | 47.3 | 10 | 40.62 | | |
| 09 | 45.9 | 52 7.7 | 6.7 | 22.1 | | | | | | | +19.53 | | |
| κ | | | | 25.5 | | | | | | | − 6 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 22.0 | | | | | + 19.45 | | − 2 | | |
| $a_1$ | | | | | | | | | | 11 | 00.07 | | |
| | | | | | | | | | | | − 2.02 | | |
| | | | | | | | | | | 10 | 58.05 | | |
| | | | 6.3 | 9 57.3 | 10 27.3 | 30.6 | 34.0 | 37.3 | 40.8 | 10 | 34.00 | | |
| | | | | 0.1 | | | | | | | +25.85 | | |
| κ | | | | 3.4 | | | | | | | − 4 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 60.3 | | | | | + 25.79 | | − 2 | | |
| $a_2$ | | | | | | | | | | 10 | 59.79 | | |
| | | | | | | | | | | | −1.88 | | |
| | | | | | | | | | | 10 | 57.91 | | |
| 11 | 57 | 54.26 | 8.5 | 11 29.8 | 11 42.8 | 46.4 | 50.0 | 53.4 | 57.2 | 11 | 49.96 | | |
| 10 | 52.1 | 54 30.9 | 7.0 | 34.0 | | | | | | | +19.54 | | |
| κ | | | | 35.7 | | | | | | | − 7 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 32.6 | | | | | + 19.44 | | − 3 | | |
| $a_1$ | | | | | | | | | | 12 | 09.40 | | |
| | | | | | | | | | | | −2.16 | | |
| | | | | | | | | | | 12 | 7.24 | | |
| | | | 6.8 | 11 18.4 | 11 36.3 | 39.9 | 43.3 | 46.7 | 50.4 | 11 | 43.32 | | |
| | 13 15 | | | 13.4 | | | | | | | +25.85 | | |
| κ | 14 25 | | | 11.0 | | | | | | | − 4 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 13.4 | | | | | + 25.78 | | − 3 | | |
| $a_2$ | | | | | | | | | | 12 | 9.19 | | |
| | | | | | | | | | | | −2.03 | | |
| | | | | | | | | | | 12 | 7.07 | | |

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Runs $R_{eq}$ = +10' 16.86 −.03 | Aper. 16 16.82 | Aper. 22 21.15 −.04

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ' |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +20.3 | 2 9.0 | 5.0 | 22 | 7.00 | 52 0 41.35 | | | 20 | 52 10 41.74 | |
| 6.46 d | 1.30750 | | | | | 10 57.77 | | | | − 11 | +10.56 |
| | 9.78756 | | | | | −16.03 | | | | − 6 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.20498n | | | | | | 10 41.74 | | | + 10.27 | |
| | | | | | | | | | | + 46 | |
| +4.04 $\delta_1$ | | 43 40.44 | | 10 24.0 | | | | | | − ~~13.70~~ 12.40 | |
| −16.61 | | | | | | | | | | ~~12.54~~ 10 | |
| | | | | | | | | | | 10 ~~39.40~~ | |
| | | 2 3.8 | 11.2 | 22 | 7.50 | 52 0 40.85 | | | 20 | ~~40.28~~ | 40.64 |
| d | | | | | | 11 2.00 | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| +4.04 $\delta_2$ | | 43 40.44 | | | | | | | | − ~~12.80~~ 6 | |
| −16.61 | | | | | | | | | | | |
| | +11.1 | 2 23.2 | 16.2 | 22 | 20.70 | 53 0 27.65 | | | 20 | 53 10 35.50 | |
| 46 | 1.04532 | | | | | 10 44.07 | | | | − 3 | +11.74 |
| d | 9.77761 | | | | | − 8.57 | | | | − 7 | |
| ((δ) − D) $\frac{d'}{100}$ | 0.82285n | | | | | | 10 35.50 | | | +11.34 | |
| | | | | | | | | | | + 50 | |
| +4.07 $\delta_1$ | | 44 30.94 | | 10 18.6 | | | | | | − ~~13.90~~ 12.40 | |
| −16.65 | | | | | | | | | | ~~12.60~~ ~~12.44~~ 34.84 | 35.28 |
| | +19.2 | 3 14.0 | 20.3 | 22 | 17.15 | 53 0 31.20 | | | 20 | 37.53 | |
| d | 1.28330 | | | | | 10 52.35 | | | | − 9 | +11.49 |
| | 9.77761 | | | | | −14.82 | | | | − 9 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.17083n | | | | | | 10 37.53 | | | +11.21 | |
| | | | | | | | | | | + 46 | |
| +4.07 $\delta_2$ | | 44 30.96 | | 10 19.4 | | | | | | − 13.00 | |
| −16.65 | | | | | | | | | | 10 ~~36.02~~ | |
| | +25.0 | 0 36.3 | 33.0 | 15 | 24.65 | 51 7 13.70 | | | 15 | 51 17 9.99 | |
| 44 | 1.39794 | | | | | 17 30.12 | | | | − 17 | +9.52 |
| d | 9.79605 | | | | | −20.13 | | | | − 2 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.30391n | | | | | | 17 9.99 | | | + 9.30 | |
| | | | | | | | | | | + .41 | |
| +3.99 $\delta_1$ | | 45 39.89 | | 16 51.5 | | | | | | −11.70 51 | |
| −16.71 | | | | | | | | | | 17 ~~7.79~~ 8.25 | |
| | +25.9 | 0 32.4 | 40.1 | 15 | 36.25 | 51 7 12.10 | | | 15 | 17 12.39 | |
| d | 1.41330 | | | | | 17 32.25 | | | | − 18 | +9.30 |
| | 9.79605 | | | | | −20.86 | | | | − 2 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.31927n | | | | | | 17 12.39 | | | + 9.19 | |
| | | | | | | | | | | + .31 | |
| +3.99 $\delta_2$ | | 45 39.91 | | 16 52.6 | | | | | | −12.40 | |
| −16.71 | | | | | | | | | | 17 9.29 | |
| | +18.6 | 0 47.8 | 42.0 | 30 | 44.90 | 52 52 3.45 | | | 30 | 52 2 5.46 | |
| 62 | 1.26951 | | | | | 53 2 19.87 | | | | − .10 | +10.44 |
| d | 9.77913 | | | | | −14.41 | | | | − 2 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.15856n | | | | | | 2 5.46 | | | + 10.11 | |
| | | | | | | | | | | + 45 | |
| +3.86 $\delta_1$ | | 11 1.91 | | 1 48.2 | | | | | | − 10.30 | |
| −17.83 | | | | | | | | | | ~~2~~ 3.60 | 6.04 |
| | +33.7 | 0 81.4 | 39.9 | 30 | 35.90 | 52 52 12.45 | | | 30 | 7.51 | |
| d | 1.52763 | | | | | 53 2 38.60 | | | | − .31 | +10.02 |
| | 9.77896 | | | | | −26.09 | | | | − 2 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.41651n | | | | | | 2 7.51 | | | +10.00 | |
| | | | | | | | | | | + .35 | |
| +3.86 $\delta_2$ | | 11 1.77 | | 1 48.7 | | | | | | −11.00 | |
| −17.83 | | | | | | | | | | 2 ~~6.63~~ | |
| | +17.4 | 3 27.3 | 24.0 | 8 | 23.65 | 54 14 24.70 | | | 5 | 54 24 28.08 | |
| 64 | 1.24055 | | | | | 24 41.12 | | | | − .7 | +13.03 |
| d | 9.76484 | | | | | −13.04 | | | | − 10 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.11531n | | | | | | 24 28.08 | | | + 12.66 | |
| | | | | | | | | | | + .54 | |
| +3.92 $\delta_1$ | | 12 11.16 | | 24 12.9 | | | | | | −10.80 | |
| −17.88 | | | | | | | | | | 24 ~~30.87~~ 30.75 | |
| | +29.7 | 3 14.0 | 18.9 | 8 | 16.45 | 54 14 31.90 | | | 5 | 30.79 | |
| d | 1.47276 | | | | | 24 53.05 | | | | − .23 | +11.68 |
| | 9.76484 | | | | | −22.26 | | | | − .13 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.34752n | | | | | | 24 30.79 | | | + 12.54 | |
| | | | | | | | | | | + .50 | |
| +3.92 $\delta_2$ | | 12 10.99 | | 24 13.8 | | | | | | −11.80 | |
| −17.88 | | | | | | | | | | 24 31.67 | |

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1874phae.proj.15888

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Date$_1$ = Apr. 16, 1874 Observer R. A. R. Recorder J. F. M.

295

Date$_2$ = Apr. 22, 1874 Observer Recorder

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| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 15 39 | 53° 42 | 8.8 | 13 24 | 13 24.0 | 27.7 | 31.1 | 34.6 | 38.1 | 13 | 31.10 | | |
| 14 | 33.4 | 53 47.4 | 9.3 | 8.7 | | | | | | | +19.54 | | |
| | | | | 3.0 | | | | | | | − 7 | | |
| κ | | | | | | | | | + 19.44 | | − 3 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 15 | 50.54 | | |
| $\alpha_1$ | | | | | | | | | | | − 2.15 | | |
| | | | | | | | | | | 15 | 48.39 | | |
| | | | 9.1 | 14 57.5 | 15 21.2 | 24.8 | 28.1 | 31.6 | 35.1 | 15 | 28.20 | 24.68 | |
| | | | | 6.4 | 24.68 | 24.80 | 24.62 | 24.64 | | | +25.86 | | |
| | | | | 12.7 | | | | | | | − 4 | | |
| κ | | | | | | | | | + 25.79 | | − 3 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 15 | 54.01 | 50.47 | |
| $\alpha_2$ | | | | | | | | | | | −2.02 −.93 | | |
| | | | | | | | | | | 15 | 51.99 | 48.45 | |
| 16 | 40 | 51.50 | 9.4 | 16 14.4 | 16 28.4 | 32.0 | 35.1 | 38.3 | 41.7 | 16 | 35.10 | | |
| 15 | 39.6 | 51 54.6 | 9.4 | 17.2 | | | | | 41.7 | | +19.54 | | |
| | | | | 20.4 | | | | | | | − 6 | | |
| κ | | | | 17.3 | | | | | + 19.46 | | − 2 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 16 | 54.56 | | |
| $\alpha_1$ | | | | | | | | | | | − 2.07 | | |
| | | | | | | | | | | 16 | 52.49 | | |
| | | | 9.8 | 16 20.4 | 16 21.9 | 25.3 | 28.7 | 31.8 | 35.2 | 16 | 28.58 | | |
| | | | | 23.0 | | | | | | | +25.86 | | |
| | | | | 26.8 | | | | | | | − 4 | | |
| κ | | | | 23.4 | | | | | + 25.80 | | − 2 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 16 | 54.34 | | |
| $\alpha_2$ | | | | | | | | | | | −1.88 −.93 | | |
| | | | | | | | | | | 16 | 52.53 .45 | | |
| 17 | 55 | 53.18 | 8.6 | 17 (18.3) | 17 27.3 | 40.6 | 44.0 | 47.6 | 51.0 | 17 | 44.10 | | |
| 16 | 49.2 | 53 22.0 | 8.8 | 21.6 | | | | | | | +19.54 | | |
| | | | 7.0 | 24.8 | | | | | | | − 7 | | |
| κ | | | | 21.4 | | | | | + 19.44 | | − 3 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 18 | 3.54 | | |
| $\alpha_1$ | | | | | | | | | | | − 2.14 | | |
| | | | | | | | | | | 18 | 1.40 | | |
| | | | 8.3 | 17 21.7 | 17 30.7 | 34.2 | 37.5 | 41.0 | 44.4 | 17 | 37.56 | | |
| | | | 8.7 | 23.0 | | | | | | | +25.86 | | |
| | | | | 24.2 | | | | | | | − 4 | | |
| κ | | | | 23.0 | | | | | + 25.79 | | − 3 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 18 | 3.35 | | |
| $\alpha_2$ | | | | | | | | | | | −2.02 −.93 | | |
| | | | | | | | | | | 18 | 1.40 .33 | | |
| 19 | 28 | 53.18 | 8.9 | 18 40.4 | 19 14.4 | 17.5 | 21.2 | 24.6 | 28.0 | 19 | 21.14 | | |
| 18 | 22.8 | 53 22.3 | 9.0 | 43.3 | | | | | | | +19.54 | | |
| | | | | 47.0 | | | | | | | − 7 | | |
| κ | | | | 42.4 | | | | | + 19.44 | | − 3 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 19 | 40.58 | | |
| $\alpha_1$ | | | | | | | | | | | − 2.16 | | |
| | | | | | | | | | | 19 | 38.42 | | |
| | | | 8.8 | 18 31.4 | 19 7.7 | 11.2 | 14.7 | 18.3 | 21.5 | 19 | 14.68 | | |
| | | | | 34.2 | | | | | | | +25.86 | | |
| | | | | 36.8 | | | | | | | − 4 | | |
| κ | | | | 34.1 | | | | | + 25.79 | | − 3 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 19 | 40.47 | | |
| $\alpha_2$ | | | | | | | | | | | −2.02 −.93 | | |
| | | | | | | | | | | 19 | 38.54 .44 | | |
| 20 | 43 | 53.34 | 9.4 | 19 39.7 | 20 25.6 | 29.1 | 32.5 | 36.0 | 39.4 | 20 | 32.52 | | |
| 19 | 38.2 | 53 38.9 | 9.3 | 2.6 | | | | | | | +19.54 | | |
| | | | | 5.7 | | | | | | | − 7 | | |
| κ | | | | 2.7 | | | | | + 19.44 | | − 3 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 20 | 51.96 | | |
| $\alpha_1$ | | | | | | | | | | | − 2.18 | | |
| | | | | | | | | | | 20 | 49.78 | | |
| | | | 9.1 | 19 56.5 | 20 19.1 | 22.7 | 26.1 | 29.5 | 33.0 | 20 | 26.08 | | |
| | | | | 6.9 | | | | | | | +25.86 | | |
| | | | | 3.3 | | | | | | | − 4 | | |
| κ | | | | 54.7 | | | | | + 25.79 | | − 3 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 20 | 51.87 | | |
| $\alpha_2$ | | | | | | | | | | | −2.05 −.93 | | |
| | | | | | | | | | | 20 | 49.89 .82 | | |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +28.5 | 2 23.9 | 18.1 | 52 | 21.00 | 53 30 27.35 | | | 50 | 53 40 22.33 | |
| | 1.44871 | | | | | 40 43.77 | | | | − .20 | +12.09 |
| d | 9.77250 | | | | | − 21.44 | | | | − .7 | |
| | 1.33118 m | | | | | | 40 22.33 | | | + 11.86 | |
| | | | | | | | | | | + .50 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | − 10.40 | |
| +3.87 $\delta_1$ | | 15 52.26 | | 40 6.4 | | | | | | 40 24.02 | 24.46 |
| ~~+21.8~~ | ~~+25.3~~ | 2 23.7 | 30.0 | 52 | 26.85 | 53 30 21.50 | | | 50 | ~~23.35~~ | 26.02 |
| ~~1.33846~~ | ~~1.40312~~ | | | | | 40 42.65 | | | | − .16 | +11.95 |
| ~~9.77250~~ | 9.77250 | | | | | − ~~19.30~~ | | | | − .10 | |
| ~~1.22088~~ | ~~+25.54~~ m | | | | | 1663 40 ~~23.35~~ | | | | + 11.73 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .48 | |
| | | | | | | | | | | − 11.30 | |
| +3.87 $\delta_2$ | | 15 52.32 | | 40 8.6 | | | | | | 40 ~~24.00~~ | 26.67 |
| | + 17.8 | 8 0.1 | 54.9 | 42 | 57.50 | 51 ~~39~~ 8 50.85 | | | 40 | 51 ~~48~~ 53.10 | |
| .52 | 1.25042 | 4 | | 3 | | 50 7.27 | | | | − .9 | +10.15 |
| d | 9.79095 | | | | | 49 − 14.17 | | | | − .9 | |
| | 1.15129 m | | | | | | 49 53.10 | | | + 9.89 | |
| ((δ) − D) $\frac{d'}{100}$ | | 56.30 | | | | | | | | + .44 | |
| +3.81 $\delta_1$ | | 16 ~~55.40~~ | | 48 35.8 | | | | | | − 9.80 | |
| | | | | | | | | | | 48 ~~53.45~~ | 53.89 |
| | + 5.2 | 8 5.9 | 12.3 | 43 | 9.10 | 51 ~~39~~ 4 39.25 | | | 40 | 48 36.26 | |
| | 0.71600 | 4 | | 4 | | ~~50~~ 0.40 | | | | − 1 | +10.00 |
| d | 9.79095 | | | | | 49 − 4.14 | | | | − .12 | |
| | 0.61689 m | | | | | | 49 56.26 | | | + 9.79 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .34 | |
| +3.81 $\delta_2$ | | 16 56.26 | | 48 37.5 | | | | | | − 10.70 | |
| | | | | | | | | | | 48 ~~55.56~~ | |
| | + 22.7 | 2 10.0 | 6.0 | 17 | 8.00 | 53 5 40.35 | | | 15 | 53 15 39.28 | |
| 54 | 1.35603 | 2 10.0 | 6.0 | 17 | 8.00 | 53 5 40.35 | | | 15 | − .14 | +11.74 |
| d | 9.77677 | | | | | 15 56.77 | | | | − .6 | |
| | 1.24272 m | | | | | 15 56.77 | | | | + 11.44 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | − 17.49 | 15 39.28 | | | + .50 | |
| +3.84 $\delta_1$ | | 18 55.24 | | 15 23.3 | | | | | | − 10.10 | |
| −18.10 | | | | | | | | | | 15 40.92 | 41.36 |
| | + 14.6 | 2 12.7 | 19.1 | 17 | 15.90 | 53 5 32.45 | | | 15 | 42.36 | |
| | 1.16435 | 2 12.7 | 19.1 | | | 15 53.60 | | | 15 | − .6 | +11.61 |
| d | 9.77677 | | | | | − 11.24 | | | | − .9 | |
| | 1.05104 m | | | | | | 15 42.36 | | | + 11.30 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .46 | |
| +3.84 | | | | | | | | | | − 11.30 | |
| −18.10 $\delta_2$ | | 18 5.17 | | 15 24.6 | | | | | | 15 42.67 | |
| | + 37.5 | 2 10.0 | 5.1 | 17 | 7.55 | 53 5 40.80 | | | 15 | 53 15 28.33 | |
| 46 | 1.57403 | | | | | 15 57.22 | | | | − .36 | +11.51 |
| d | 9.77677 | | | | | − 28.89 | | | | − .6 | |
| | 1.46072 m | | | | | | 15 28.33 | | | + 11.43 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .50 | |
| +3.83 $\delta_1$ | | 19 42.25 | | 15 12.1 | | | | | | − 10.00 | |
| −18.16 | | | | | | | | | | 15 ~~28.84~~ | 30.28 |
| | + 20.6 | 2 18.4 | 24.0 | 17 | 21.20 | 53 5 27.15 | | | 15 | 32.43 | |
| | 1.31387 | | | | | 15 48.30 | | | | − .12 | +11.54 |
| d | 9.77677 | | | | | − 15.87 | | | | − .9 | |
| | 1.20056 m | | | | | | 15 32.43 | | | + 11.29 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .46 | |
| +3.83 $\delta_2$ | | 19 42.27 | | 15 14.8 | | | | | | − 11.00 | |
| −18.16 | | | | | | | | | | 15 32.97 | |
| | + 29.8 | 0 30.0 | 24.8 | 0 | 27.40 | 53 22 20.95 | | | 0 | 53 32 14.60 | 15.01 |
| 44 | 1.47422 | | | | | 32 37.40 81 | | | | − .24 | |
| d | 9.77387 | | | | | − 22.80 | 15.01 | | | − | |
| | 1.35861 m | | | | | | 32 14.60 | | | + 11.72 | +11.98 |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .50 | |
| +3.83 $\delta_1$ | | 20 53.61 | | 31 58.8 | | | | | | − 10.00 | 1699 |
| −18.21 | | | | | | | | | | 32 ~~12.62~~ 1655 | 17.02 |
| | + 26.2 | 0 28.1 | 36.5 | 0 | 31.80 | 53 22 16.55 | | | 0 | 17.65 | |
| | 1.41830 | | | | | 32 37.70 | | | | − .18 | +11.87 |
| d | 9.77387 | | | | | − 20.05 | | | | − .2 | |
| | 1.30209 m | | | | | | 32 17.65 | | | + 11.60 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .47 | |
| +3.83 | | | | | | | | | | − 10.90 | |
| −18.21 $\delta_2$ | | 20 53.65 | | 32 0.4 | | | | | | 32 ~~18.62~~ | |

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Date$_1$ = Apr. 16, 1874 Observer J. R. K. Recorder J. F. M.

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Date$_2$ = Apr. 22 Observer Recorder

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| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | 21h 54s 53.18 | 9.1 | 21m 11.3 | 21m 37.0 | 42.4 | 45.7 | 49.3 | 52.8 | 21m | 45.84 | | |
| | 20 49.1 53 23.6 | 9.4 | 14.0 | | | | | | | + 19.54 | | |
| | κ | | 16.8 | | | | | | | − 7 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | 14.0 | | | | | | + 19.44 | − 3 | | |
| | | | | | | | | | | 22 5.28 | | |
| | $\alpha_1$ | | | | | | | | | − 2.18 | | |
| | | | | | | | | | | 22 3.18 | | |
| | | 9.2 | 21. 7.0 | 21 32.6 | 36.1 | 39.4 | 42.9 | 46.2 | 21 | 39.44 | | |
| | κ | | 4.5 | | | | | | | + 25.86 | | |
| | | | 13.4 | | | | | | | − 4 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | 11.1 | | | | | | + 25.79 | − 3 | | |
| | | | | | | | | | | 22 5.23 | | |
| | $\alpha_2$ | | | | | | | | | −205 +.96 | | |
| | | | | | | | | | | 22 3.27 18 | | |
| | 23 05 52.28 | 8.8 | 22 24.8 | 22 49.1 | 52.7 | 56.0 | 59.3 | 2.8 | 22 | 53.98 | | |
| | 22 1.7 53 33.5 | 8.3 | 28.0 | | | | | | | + 19.54 | | |
| | κ | | 31.7 | | | | | | | − 6 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | 28.2 | | | | | | + 19.46 | − 2 | | |
| | | | | | | | | | | 23 15.44 | | |
| | $\alpha_1$ | | | | | | | | | − 2.15 | | |
| | | | | | | | | | | 23 13.29 | | |
| | | 8.4 | 22 11.8 | 22 42.7 | 46.1 | 49.5 | 53.0 | 56.4 | 22 | 49.54 | | |
| | κ | | 15.0 | | | | | | | + 25.86 | | |
| | | | 19.7 | | | | | | | − 4 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | 14.8 | | | | | | + 25.80 | − 2 | | |
| | | | | | | | | | | 23 15.34 | | |
| | $\alpha_2$ | | | | | | | | | −202 +.93 | | |
| | | | | | | | | | | 23 13.41 82 | | |
| | 24 38 52.30 | 9.5 | 23 56.5 | 24 22.4 | 21.8 | 29.2 | 22.5 | 26.0 | 24 | 29.18 | | |
| | 23 35.0 53 35.0 | 8.3 | 57.4 | | | | | | | + 19.54 | | |
| | κ | | 3.6 | | | | | | | − 6 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | 7.8 | | | | | | + 19.46 | − 2 | | |
| | | | | | | | | | | 24 48.64 | | |
| | $\alpha_1$ | | | | | | | | | − 2.15 | | |
| | | | | | | | | | | 24 46.49 | | |
| | | F.6 | 23 52.6 | 24 15.7 | 19.2 | 22.5 | 26.0 | 29.4 | 24 | 22.56 | | |
| | κ | | 56.0 | | | | | | | + 25.86 | | |
| | | | 59.3 | | | | | | | − 4 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | 55.1 | | | | | | + 25.80 | − 2 | | |
| | | | | | | | | | | 24 48.36 | | |
| | $\alpha_2$ | | | | | | | | | −203 +.94 | | |
| | | | | | | | | | | 24 46.42 33 | | |
| | 25 35 53.53 | F.5 | 23 6.3 | 25 18.5 | 22.0 | 25.4 | 28.8 | 32.6 | 25 | 25.46 | | |
| | 24 30.3 53 58.3 | 8.6 | 9.3 | | | | | | | + 19.54 | | |
| | κ | | 12.8 | | | | | | | − 7 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | 9.5 | | | | | | + 19.44 | − 3 | | |
| | | | | | | | | | | 25 44.90 | | |
| | $\alpha_1$ | | | | | | | | | − 2.24 | | |
| | | | | | | | | | | 25 42.66 | | |
| | | F.5 | 24 52.0 | 25 12.0 | 16.3 | 19.0 | 22.5 | 26.0 | 25 | 18.96 | | |
| | κ | | 54.8 | | | | | | | + 25.86 | | |
| | | | 57.9 | | | | | | | − 4 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | 54.9 | | | | | | + 25.79 | − 3 | | |
| | | | | | | | | | | 25 44.75 11 | | |
| | $\alpha_2$ | | | | | | | | | −202 | | |
| | | | | | | | | | | 25 42.73 64 | | |
| | 26 32 53.48 | 9.2 | 27 0.4 | 26 17.8 | 21.3 | 24.6 | 28.5 | 31.9 | 26 | 24.82 | | |
| | 25 27.8 53 53.3 | 9.0 | 3.0 | | | | | | | + 19.54 | | |
| | κ | | 6.3 | | | | | | | − 7 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | 3.2 | | | | | | + 19.44 | − 3 | | |
| | | | | | | | | | | 26 44.26 | | |
| | $\alpha_1$ | | | | | | | | | − 2.24 | | |
| | | | | | | | | | | 26 42.02 | | |
| | | 8.8 | 25 59.0 | 26 11.3 | 14.9 | 18.2 | 21.8 | 25.4 | 26 | 18.32 | | |
| | 27 29 | | 2.5 | | | | | | | + 25.86 | | |
| | κ | | 6.3 | | | | | | | − 4 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | 2.3 | | | | | | + 25.79 | − 3 | | |
| | | | | | | | | | | 44.11 | | |
| | $\alpha_2$ | | | | | | | | | − 2.02 11 | | |
| | | | | | | | | | | 26 42.09 | | |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +31.8 | 0′ 56.1 | 57.5 | 14 | 54.20 | 53 6 54.15 | | | 15′ | 53 16 46.08 | |
| | 1.50243 | | | | | 17 10.57 | | | | − 27 | |
| d | 9.77660 | | | | | −24.49 | | | | − 85 | +11.64 |
| | 1.38895n | | | | | | 16 46.08 | | | + 10.21 46 | +0.47 |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 50 | |
| | | | | | | | | | | − 9.80 | |
| +3.81 $\delta_1$ | | 22 6.91 | | 17 30.1 | | | | | | 17 47.70 | 48.36 |
| −18.25 | | | | | | | | | | | |
| | +29.3 | 4 56.6 | 2.2 | 14 | 59.40 | 53 7 48.95 | | | 10 | 17 47.55 | |
| | 1.46687 | | | | | 18 10.10 | | | | − 22 | +11.40 |
| d | 9.77643 | | | | | −22.55 | | | | − 20 | |
| | 1.35322n | | | | | | 17 47.55 | | | + 11.36 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 46 | |
| | | | | | | | | | | − 11.80 | |
| +3.81 $\delta_2$ | | 22 6.99 | | 17 28.9 | | | | | | 17 47.15 | |
| −18.25 | | | | | | | | | | | |
| | +27.8 | 0 34.3 | 30.4 | 5 | 32.35 | 52 17 16.00 | | | 5 | 52 27 10.61 | |
| 44 | 1.44404 | | | | | 27 32.42 | | | | − 21 | +10.80 |
| d | 9.78478 | | | | | −21.81 | | | | − 2 | |
| | 1.33874n | | | | | | 27 10.61 | | | + 10.56 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 47 | |
| | | | | | | | | | | − 9.50 | |
| +3.78 $\delta_1$ | | 23 17.07 | | 26 54.1 | | | | | | 27 11.41 | 12.35 |
| −18.29 | | | | | | | | | | | |
| | +34.7 | 0 24.9 | 32.1 | 5 | 28.50 | 52 17 19.85 | | | 5 | 13.77 | |
| | 1.54033 | | | | | 27 41.00 | | | | − 32 | +10.50 |
| d | 9.78478 | | | | | − 27.23 | | | | − 2 | |
| | 1.43503n | | | | | | 27 13.77 | | | + 10.45 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 39 | |
| | | | | | | | | | | − 11.50 | |
| +3.78 $\delta_2$ | | 23 17.10 | | 26 54.5 | | | | | | 27 12.77 | |
| −18.29 | | | | | | | | | | | |
| | +29.4 | 3 9.6 | 4.9 | 3 | 7.25 | 52 19 41.10 | | | 0 | 52 29 34.46 | |
| 62 | 1.46835 | | | | | 29 57.52 | | | | − 22 | +10.78 |
| d | 9.78455 | | | | | −23.06 | | | | − 9 | |
| | 1.36282n | | | | | | 29 34.46 | | | + 10.62 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 47 | |
| | | | | | | | | | | − 9.40 | |
| +3.78 $\delta_1$ | | 24 50.27 | | 29 17.9 | | | | | | 29 35.84 | 36.28 |
| −18.35 | | | | | | | | | | | |
| | +26.7 | 3 8.0 | 15.0 | 3 | 11.50 | 52 19 36.85 | | | 0 | 37.06 | |
| | 1.42651 | | | | | 29 58.00 | | | | − 19 | +10.57 |
| d | 9.78445 | | | | | − 20.94 | | | | − 13 | |
| | 1.32088n | | | | | | 29 37.06 | | | + 10.49 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| | | | | | | | | | | − 11.40 | |
| +3.78 $\delta_2$ | | 24 50.11 | | 29 17.9 | | | | | | 29 36.23 | |
| −18.35 | | | | | | | | | | | |
| | +16.0 | 2 4.2 | 59.8 | 48 1 | 2.00 | 53 42 46.35 | | | 40 | 53 52 50.62 | 2 |
| 60 | 1.20412 | | | | | 58 2.77 | | | | − 7 | +12.52 |
| d | 9.77043 | | | | | − 12.15 | | | | − 0 | |
| | 1.08447n | | | | | | 52 50.62 | | | + 12.09 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 50 | |
| | | | | | | | | | | − 9.80 | |
| +3.80 $\delta_1$ | | 25 46.46 | | 51 35.4 | | | | | | 52 53.34 | 53.78 |
| −18.38 | | | | | | | | | | | |
| | +24.1 | 0 63.4 | 58.4 | 40 | 55.90 | 53 41 52.45 | | | 40 | 52 55.30 | |
| | 1.38202 | | | | | 52 13.60 | | | | − 15 | +12.89 |
| d | 9.77061 | | | | | − 18.30 | | | | − 20 04 | 25 |
| | 1.26255n | | | | | | 51 55.30 | | | + 11.95 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 49 | |
| | | | | | | | | | | − 11.70 | |
| +3.80 $\delta_2$ | | 25 46.44 | | 51 37.5 | | | | | | 52 55.69 85 | |
| −18.38 | | | | | | | | | | | |
| − 38.4 | +21.0 | 1 12.4 | 7.2 | 46 | 9.80 | 53 36 39.55 | | | 45 | 53 46 39.53 | |
| 80 1.58433n | 1.32445 | | | | | 46 55.97 | | | | − 13 | +12.33 |
| 9d77147 | 9.77147 | | | | | −16.44 | | | | − 4 | |
| 1.46572 | 1.21584n | | | | | +29.22 | 48 39.53 | | | + 12.00 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 50 | |
| | | | | | | | | | | − 9.70 | |
| +3.79 $\delta_1$ | | 26 45.81 | | 47 8.8 | | | | | | 48 42.16 | 27.26 |
| −18.42 | | | | | | | | | | 47 26.82 | |
| | +16.0 | 0 26.4 | 31.9 | 45 | 29.15 | 53 37 19.20 | | | 45 | 47 28.18 | |
| | 1.20412 | | | | | 47 40.35 | | | | − 7 | +12.28 |
| d | 9.77130 | | | | | −12.17 | | | | − 2 | |
| | 1.08534n | | | | | | 47 28.18 | | | + 11.88 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 49 | |
| | | | | | | | | | | − 11.60 | |
| +3.79 $\delta_2$ | | 26 45.79 | | 47 10.4 | | | | | | 47 28.86 | |
| −18.42 | | | | | | | | | | | |

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1874phae.pro.15588

294

Date$_1$ = Apr. 16, 1874 Observer R.A.R. Recorder J.H.M.

295

Date$_2$ = Apr. 22, 1874 Observer Recorder

26

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 8 | 21 | 52 46 | 8.2 | 27 44.9 | 28 5.3 | 8.6 | 12.0 | 15.5 | 18.0 | 28 | 1208 | |
| | 27 | 18.0 | 52 57.6 | 6.9 | 47.4 | | | | | | | +19.54 | |
| | κ | | | | 0.1 | | | | | | | − 6 | |
| | | | | | 47.5 | | | | | + 19.46 | | − 2 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 28 | 31.54 | |
| | $a_1$ | | | | | | | | | | | − 2.20 | |
| | | | | | | | | | | | 28 | 29.34 | |
| | | | | 7.1 | 28 10.5 | 27 58.7 | 2.3 | 5.7 | 9.1 | 12.6 | 28 | 5.68 | |
| | | | | | 13.6 | | | | | | | + 25.86 | |
| | κ | | | | 1.6 | | | | | | | − 4 | |
| | | | | | 13.9 | | | | | + 25.80 | | − 2 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 28 | 31.48 | |
| | $a_2$ | | | | | | | | | | | −20 1.99 | |
| | | | | | | | | | | | 28 | 29.49 | |
| | 30 | 0 0 | 53 53 | 8.5 | 29 12.2 | 29 45.2 | 48.7 | 52.1 | 55.8 | 59.2 | 29 | 52.20 | |
| | 28 | 57.8 | 53 57.7 | 8.8 | 15.0 | | | | | | | + 19.54 | |
| | κ | | | | 15.5 | | | | | | | − 7 | |
| | | | | | 14.2 | | | | | + 19.44 | | − 3 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 30 | 11.64 | |
| | $a_1$ | | | | | | | | | | | −2.28 | |
| | | | | | | | | | | | 30 | 9.36 | |
| | | | | 8.8 | 29 15.6 | 29 38.6 | 42.2 | 45.7 | 49.2 | 52.7 | 29 | 45.68 | |
| | | | | | 19.1 | | | | | | | + 25.86 | |
| | κ | | | | 22.3 | | | | | | | − 4 | |
| | | | | | 17.0 | | | | | + 25.79 | | − 3 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 30 | 11.47 | |
| | $a_2$ | | | | | | | | | | | −2.15 | |
| | | | | | | | | | | | 30 | 9.32 | |
| | 31 | 10 | 54 20 | 6.0 | 30 27.6 | 30 51.8 | 55.3 | 58.8 | 2.4 | 5.9 | 30 | 58.84 | |
| | 30 | 4.8 | 54 24.5 | 6.0 | 30.0 | | | | | | | + 19.54 | |
| | κ | | | | 28.4 | | | | | | | − 7 | |
| | | | | | 30.3 | | | | | + 19.44 | | − 3 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 31 | 18.28 | |
| | $a_1$ | | | | | | | | | | | −2.31 | |
| | | | | | | | | | | | 31 | 15.97 | |
| | | | | 5.5 | 30 20.7 | 30 45.3 | 48.9 | 52.5 | 56.1 | 59.5 | 30 | 52.46 | |
| | | 32 | | 6 | 22.9 | | | | | | | + 25.86 | |
| | κ | | | | 26.2 | | | | | | | − 4 | |
| | | | | | 24.2 | | | | | + 25.79 | | − 3 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 31 | 18.25 | |
| | $a_2$ | | | | | | | | | | | −2.19 | |
| | | | | | | | | | | | 31 | 15.06 | |
| | 33 | 24 | 53 38 | 7.8 | 32 39.5 | 33 7.6 | 11.2 | 14.5 | 18.2 | 21.6 | 33 | 14.62 | |
| | 32 | 19.8 | 53 42.5 | 7.0 | 42.4 | | | | | | | + 19.54 | |
| | κ | | | | 43.6 | | | | | | | − 7 | |
| | | | | | 42.5 | | | | | + 19.44 | | − 3 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 33 | 34.06 | |
| | $a_1$ | | | | | | | | | | | −2.29 | |
| | | | | | | | | | | | 33 | 31.77 | |
| | | | | 6.9 | 32 39.4 | 33 1.2 | 4.7 | — | 11.5 | 15.2 | 33 | 8.15 | |
| | | | | | 42.0 | | | | | | | +25.86 | |
| | κ | | | | 45.6 | | | | | | | − 4 | |
| | | | | | 42.3 | | | | | + 25.79 | | − 3 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 33 | 33.94 | |
| | $a_2$ | | | | | | | | | | | −2.17 | |
| | | | | | | | | | | | 33 | 31.77 | |
| | 34 | 30 | 54 47 | 9.5 | 33 53.0 | 34 13.6 | 18.2 | 22.8 | 26.3 | 29.8 | 34 | 22.74 | |
| | 33 | 27.8 | 54 57.9 | 9.2 | 53.8 | | | | | | | + 19.54 | |
| | κ | | | | 0.1 | | | | | | | − 7 | |
| | | | | | 56.3 | | | | | + 19.44 | | − 3 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 34 | 42.18 | |
| | $a_1$ | | | | | | | | | | | −2.36 | |
| | | | | | | | | | | | 34 | 39.82 | |
| | | | | 9.0 | 33 36.8 | 34 1.0 | 12.7 | 16.3 | 19.9 | 23.5 | 34 | 16.24 | |
| | | | | | 39.8 | | | | | | | + 25.87 | |
| | κ | | | | 43.1 | | | | | | | − 4 | |
| | | | | | 39.9 | | | | | + 25.80 | | − 3 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 34 | 42.04 | |
| | $a_2$ | | | | | | | | | | | −2.23 | |
| | | | | | | | | | | | 34 | 39.81 | |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | +24.8 | 2′ 12.7″ | 8.3″ | 47′ | 10.50″ | 52 35 37.85 | | | 45′ | 52 45 35.10 | |
| d | 1.39094 | | | | | 45 54.27 | | | | − .15 | +11.18 |
| | 9.78180 | | | | | −19.17 | | | | − .6 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.28266$_m$ | | | | | | 45 35.10 | | | + 10.90 | |
| | | | | | | | | | | + .49 | |
| | | | | | | | | | | − 9.20 | |
| +3.75 $\delta_1$ | | 28 33.09 | | 45 19.0 | | | | | | 45 37.08 | 37.52 |
| −18.48 | | | | | | | | | | | |
| | +8.2 | 2 35.2 | 42.1 | 47 | 38.65 | 52 35 9.70 | | | 46 | 37.24 | |
| d | 0.91381$_m$ | | | | | 45 30.85 | | | | − 2 | +11.09 |
| | 9.78180 | | | | | + 6.39 | | | | − 10 | |
| ((δ) − D) $\frac{d'}{100}$ | 0.80553 | | | | | | 45 37.24 | | | + 10.78 | |
| | | | | | | | | | | + .43 | |
| | | | | | | | | | | − 10.20 | |
| +3.75 $\delta_2$ | | 28 33.16 | | 45 19.6 | | | | | | 45 38.13 | |
| −18.48 | | | | | | | | | | | |
| 52 | +37.0 | 0 51.9 | 46.0 | 40 | 48.95 | 53 41 59.40 | | | 40 | 53 51 47.74 | |
| d | 1.56820 | | | | | 52 15.82 | | | | − .36 | +12.21 |
| | 9.77061 | | | | | −28.08 | | | | − 2 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.44873$_m$ | | | | | | 51 47.74 | | | + 12.09 | |
| | | | | | | | | | | + .50 | |
| | | | | | | | | | | − 9.40 | |
| +3.77 $\delta_1$ | | 30 13.13 | | 51 32.4 | | | | | | 51 50.99 | 50.99 |
| −18.54 | | | | | | | | | | | |
| | +26.7 | 0 56.8 | 3.2 | 41 | 0 00 | 53 41 48.35 | | | 40 | 49.22 | |
| d | 1.42651 | | | | | 52 9.50 | | | | − .19 | +12.22 |
| | 9.77061 | | | | | −20.28 | | | | − 4 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.30704$_m$ | | | | | | 51 49.22 | | | + 11.96 | |
| | | | | | | | | | | + .49 | |
| | | | | | | | | | | − 11.40 | |
| +3.77 $\delta_2$ | | 30 13.09 | | 51 31.5 | | | | | | 51 50.04 | |
| −18.54 | | | | | | | | | | | |
| 38 | +28.5 | 3 20.7 | 12.8 | 13 | 16.75 | 54 9 31.60 | | | 10 | 54 19 26.62 | |
| d | 1.45484 | | | | | 19 48.02 | | | | − .20 | +12.82 |
| | 9.76572 | | | | | −21.40 | | | | − 10 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.33048$_m$ | | | | | | 19 26.62 | | | + 12.59 | |
| | | | | | | | | | | + .53 | |
| | | | | | | | | | | − 9.40 | |
| +3.77 $\delta_1$ | | 31 19.74 | | 19 11.9 | | | | | | 19 30.04 | 30.48 |
| −18.57 | | | | | | | | | | | |
| | +29.3 | 3 14.9 | 21.0 | 13 | 17.95 | 54 9 30.40 | | | 10 | 29.55 | |
| d | 1.46687 | | | | | 19 57.55 | | | | − .22 | +12.61 |
| | 9.76572 | | | | | −22.00 | | | | − .13 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.34251$_m$ | | | | | | 19 29.55 | | | + 12.46 | |
| | | | | | | | | | | + .50 | |
| | | | | | | | | | | − 11.40 | |
| +3.77 $\delta_2$ | | 31 19.83 | | 19 12.2 | | | | | | 19 30.76 | |
| −18.57 | | | | | | | | | | | |
| 47 | +32.1 | 0 7.0 | 1.7 | 55 | 4.35 | 53 27 44.00 | | | 55 | 53 37 37.90 | |
| d | 1.50651 | | | | | 38 0.42 | | | | − .27 | +12.05 |
| | 9.77302 | | | | | −24.52 | | | | − 0 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.38945$_m$ | | | | | | 37 37.90 | | | + 11.82 | |
| | | | | | | | | | | + .50 | |
| | | | | | | | | | | − 9.00 | |
| +3.74 $\delta_1$ | | 33 35.51 | | 37 20.8 | | | | | | 37 39.95 | 39.39 |
| −18.64 | | | | | | | | | | | |
| | +25.9 | 0 8.7 | 16.0 | 55 | 11.85 | 53 27 36.50 | | | 55 | 37.87 | |
| d | 1.41330 | | | | | 37 57.65 | | | | − .18 | +11.98 |
| | 9.77302 | | | | | −19.78 | | | | − 1 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.29624$_m$ | | | | | | 37 37.87 | | | + 11.69 | |
| | | | | | | | | | | + .48 | |
| | | | | | | | | | | − 10.00 | |
| +3.74 $\delta_2$ | | 33 35.51 | | 37 21.2 | | | | | | 37 39.85 | |
| −18.64 | | | | | | | | | | | |
| 56 | +26.4 | 3 13.0 | 7.9 | 48 | 10.45 | 54 34 37.90 | | | 45 | 54 44 34.70 | |
| d | 1.42160 | | | | | 44 54.32 | | | | − .17 | +13.34 |
| | 9.76129 | | | | | −19.62 | | | | − 10 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.29281$_m$ | | | | | | 44 34.70 | | | + 13.04 | |
| | | | | | | | | | | + .57 | |
| | | | | | | | | | | − 9.20 | |
| +3.76 $\delta_1$ | | 3443.58 | | 44 20.6 | | | | | | 44 38.84 | 39.28 |
| −18.68 | | | | | | | | | | | |
| | +36.3 | 2 22.2 | 7.1 | 47.8 | 4.65 | 54 38 43.70 | | | 45 | 45 37.88 | |
| d | 1.55991 | | | | | 48 5 4.85 | | | | − .33 | +13.00 |
| | 9.76111 | | | | | −26.97 | | | | − 8 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.43094$_m$ | | | | | | 45 37.88 | | | + 12.91 | |
| | | | | | | | | | | + .50 | |
| | | | | | | | | | | − 10.20 | |
| +3.76 $\delta_2$ | | 3443.57 | | 44 22.0 | | | | | | 45 40.68 | |
| −18.68 | | | | | | | | | | 44 | |

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1874phae.proj.15888



Date$_1$ = Apr. 16, 1874 Observer Z. A. K. Recorder J. F. M.

Date$_2$ = Apr. 22, 1874 Observer Recorder

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 35 | 52 | 53.49 | 9.3 | 35 17.0 | 35 36.2 | 37.7 | 43.0 | 46.5 | 50.0 | 35 | 43.08 | |
| | 34 | 48.8 | 53 53.9 | 9.4 | 17.5 | | | | | | | +19.54 | |
| | κ | | | | 22.8 | | | | | | | − 7 | |
| | | | | | 14.8 | | | | | + 19.44 | | − 3 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 36 | 2.52 | |
| | | | | | | | | | | | | −2.32 | |
| | $\alpha_1$ | | | | | | | | | | 36 | 0.20 | +3. −18 |
| | | | | 9.4 | 35 2.9 | 35 29.3 | 33.1 | 36.6 | 40.2 | 43.6 | 35 | 36.56 | |
| | | | | | 5.3 | | | | | | | +25.87 | |
| | κ | | | | 8.9 | | | | | | | − 4 | |
| | | | | | 5.7 | | | | | + 25.80 | | − 3 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 36 | 2.36 | |
| | | | | | | | | | | | | −2.19 | |
| | $\alpha_2$ | | | | | | | | | | 36 | 0.17 | +3.1 −18 |
| | 36 | 50 | 50.07 | 8.7 | 37 8.7 | 36 34.4 | 37.7 | 40.8 | 44.1 | 47.3 | 36 | 40.98 | |
| | 35 | 51.2 | 50 12.1 | 7.8 | 9.2 | | | | | | | +19.54 | |
| | κ | | | | 12.2 | | | | | | | − 6 | |
| | | | | | 7.0 | | | | | + 19.46 | | − 2 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 37 | 0.44 | |
| | | | | | | | | | | | | −2.13 | |
| | $\alpha_1$ | | | | | | | | | | 36 | 58.31 | +36 −18. |
| | | | | 8.0 | 36 12.2 | 36 28.7 | 31.4 | 34.7 | 37.8 | 41.0 | 36 | 34.62 | |
| | | | | | 16.1 | | | | | | | +25.87 | |
| | κ | | | | 18.8 | | | | | | | − 4 | |
| | | | | | 13.7 | | | | | + 25.81 | | − 2 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 37 | 0.43 | |
| | | | | | | | | | | | | −2.02 | |
| | $\alpha_2$ | | | | | | | | | | 36 | 58.41 | +3. −1 |
| | 37 | 55 | 50.10 | 8.9 | 37 36.5 | 37 56.0 | 57.3 | 2.5 | 5.8 | 9.0 | 38 | 2.52 | |
| | 36 | 56.2 | 50 14.6 | 8.5 | 38.5 | | | | | | | +19.54 | |
| | 37 κ | 10.8 | 11.1 | | 42.7 | | | | | | | − 6 | |
| | | | | | 37.6 | | | | | + 19.46 | | − 2 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 38 | 2.198 | |
| | | | | | | | | | | | | − 2.14 | |
| | $\alpha_1$ | | | | | | | | | | 38 | 19.84 | +363 −18.7 |
| | 36 | 56.7 40 | 50 14.6 15 | 9.1 | 37 6.8 | 37 34.3 | 37.5 | 40.7 | 43.9 | 47.2 | 37 | 40.72 | |
| | | | | | 10.5 | | | | | | | + 25.87 | |
| | κ | | | | 13.5 | | | | | | | − 4 | |
| | | | | | 10.3 | | | | | + 25.81 | | − 2 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 38 | 6.53 | |
| | | | | | | | | | | | | −2.03 | |
| | $\alpha_2$ | | | | | | | | | | 38 | 4.50 | +36 −18. |

Single Observations.

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9h | 33 | 33 | 54.05 | 9.4 | 33 10.0 | 33 17.8 | 17.8 | 21.1 | 24.6 | 28.0 | 33 | 21.08 | |
| | 32 | 18.6 | 54 7.9 | 9.0 | | 13.9 | | | | | | +19.53 | |
| Apr. 16 | κ | | | | | | | | | | | − 7 | |
| | | | | | | | | | | + 19.43 | | − 3 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 33 | 40.51 | |
| | | | | | | | | | | | | −1.65 | |
| | $\alpha_2$ | | | | | | | | | | 33 | 38.86 | +4. −1 |
| 9 | 32 | 58 | 54.07 | 9.1 | 32 26.6 | 32 35.2 | 38.5 | 42.2 | 45.8 | 49.2 | 32 | 42.18 | |
| | 31 | 44.4 | 54 10.5 | 8.8 | 28.7 | | | | | | | +25.83 | |
| Apr. 22 | κ | | | | 31.7 | | | | | | | − 4 | |
| | | | | | 21.0 | | | | | + 25.76 | | − 3 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 33 | 7.91 | |
| | | | | | | | | | | | | −1.65 | |
| | $\alpha_1$ | | | | | | | | | | 33 | 6.24 | +4. −16. |
| 9 | 37 | 02 | 52.29 | 8.9 | 36 17.8 | 36 40.3 | 43.8 | 47.7 | 50.6 | 54.0 | 36 | 44.16 | |
| | 35 | 53.3 | 52 33.2 | 9.0 | 20.6 | | | | | | | +25.83 | |
| Apr. 22 | κ | | | | 23.9 | | | | | | | − 4 | |
| | | | | | 20.8 | | | | | + 25.77 | | − 2 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 37 | 12.93 | |
| | | | | | | | | | | | | −1.60 | |
| | $\alpha_2$ | | | | | | | | | | 37 | 11.33 | +4. −16. |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +23.3 | 4′ 46.4 | 39.8 | 44 | 43.10 | 53 38 5.25 | | | 40′ | 53 48 3.95 | |
| | 1.36736 | | | | | 48 21.67 | | | | − .14 | +12.25 |
| d | 9.77130 | | | | | − 17.72 | | | | − .14 | |
| | 1.24858 m | | | | | | 48 3.95 | | | + 12.03 | |
| | | | | | | | | | | + .50 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | − 8.90 | |
| +3.73 $\delta_1$ | | 36 3.93 | | 47 49.0 | | | | | | 48 7.30 | 7.74 |
| −18.72 | | | | | | | | | | | |
| | + 30.9 | 4 35.8 | 41.7 | 44 | 38.75 | 53 38 9.60 | | | 40 | 7.24 | |
| | 1.48996 | | | | | 48 30.75 | | | | − .25 | +11.95 |
| d | 9.77130 | | | | | − 23.51 | | | | − .19 | |
| | 1.37118 m | | | | | | 48 7.24 | | | + 11.90 | |
| | | | | | | | | | | + .49 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | − 9.90 | |
| +3.73 $\delta_2$ | | 36 3.90 | | 47 50.6 | | | | | | 48 9.29 | |
| −18.72 | −28.0 | | | | | | | | | | |
| | ~~+32.0~~ | 2 30.0 | 22.9 | 27 | 26.45 | 49 55 21.90 | | | 25 | 50 6 1.45 | |
| 36 | 1.44716 m | | | | | 50 5 38.32 | | | | − .21 | +8.15 |
| d | 9.80716 | | | | | +23.13 | | | | − .7 | |
| | 1.36424 m | | | | | | 56 1.45 | | | + 8.08 | |
| | | | | | | | | | | + .35 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | − 7.90 | |
| +3.64 $\delta_1$ | | 37 1.95 | | 5 43.4 | | | | | | 6 1.70 | 2.14 |
| −18.75 | | | | | | | | | | | |
| | +18.9 | 1 47.1 | 52.1 | 26 | 49.60 | 49 55 58.75 | | | 25 | 4.29 | |
| | 1.27646 | | | | | 50 6 19.90 | | | | − .10 | +8.06 |
| d | 9.80716 | | | | | −15.61 | | | | − .7 | |
| | 1.19354 m | | | | | | 6 4.29 | | | + 7.98 | |
| | | | | | | | | | | + .25 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | − 8.80 | |
| +3.64 $\delta_2$ | | 37 2.05 | | 5 44.8 | | | | | | 6 3.55 | |
| −18.75 | | | | | | | | | | | |
| | +22.9 | 2 45.5 | 38.6 | 27 | 42.05 | 49 55 6.30 | | | 25 | 50 5 3.79 | |
| 0 | 1.35984 | | | | | 50 5 22.72 | | | | − .14 | +8.19 |
| d | 9.80731 | | | | | −18.73 | | | | − .8 | |
| | 1.27707 m | | | | | | 5 3.79 | | | + 8.06 | |
| | | | | | | | | | | + .35 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | − 7.80 | |
| +3.63 $\delta_1$ | | 38 23.47 | | 4 45.8 | | | | | | 5 4.18 | 4.62 |
| −18.79 | | | | | | | | | | | |
| | +30.4 | 4 12.5 | 17.8 | 24 | 15.15 | 49 58 33.20 | | | 20 | 8 29.26 | |
| | 1.48287 | | | | | 50 8 54.35 | | | | − .2 | +8.02 |
| d | 9.80671 | | | | | −25.09 | | | | − .17 | |
| | 1.39950 m | | | | | | 8 29.26 | | | + 7.96 | |
| | | | | | | | | | | + .25 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | − 8.80 | |
| +3.63 $\delta_2$ | | 38 8.13 | | 8 9.7 | | | | | | 8 28.48 | |
| −18.79 | | | | | | | | | | | |
| | | | | | | | | | | | |
| d | | | | | | | | | | | |
| | | | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | +11.1 | 0 11.6 | 7.2 | 30 | 9.35 | 54 52 39.00 | | | 30 | 54 2 47.23 | |
| | 1.04532 | | | | | 55 2 55.42 | | | | − .3 | +12.77 |
| d | 9.75805 | | | | | −8.19 | | | | − .0 | |
| | 0.91329 m | | | | | | 2 47.23 | | | + 12.28 | |
| | | | | | | | | | | + .52 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | − 13.90 | |
| +4.17 $\delta_2$ | | 33 43.03 | | 2 30.4 | | | | | | 2 46.10 | 46.54 |
| −16.10 | | | | | | | | | | | |
| | +13.2 | 1 31.1 | 38.0 | 26 | 34.55 | 53 56 13.80 | | | 25 | 54 6 24.99 | |
| | 1.12057 | | | | | 54 6 34.95 | | | | − .5 | +12.63 |
| d | 9.76800 | | | | | −9.96 | | | | − .6 | |
| | 0.99849 m | | | | | | 6 24.99 | | | + 12.24 | |
| | | | | | | | | | | + .50 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | − 13.90 | |
| +4.18 $\delta_1$ | | 33 10.47 | | 6 7.6 | | | | | | 6 23.73 | |
| −16.07 | | | | | | | | | | | |
| | +26.4 | 3 32.7 | 39.3 | 3 | 36.00 | 52 19 12.35 | | | 0 | 52 29 12.80 | |
| | 1.42160 | | | | | 52 29 33.50 | | | | − .18 | +10.58 |
| d | 9.78445 | | | | | −20.70 | | | | − .14 | |
| | 1.31597 m | | | | | | 29 12.80 | | | + 10.50 | |
| | | | | | | | | | | + .40 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 13.30 | |
| +4.09 $\delta_2$ | | 37 15.42 | | 28 53.8 | | | | | | 29 10.08 | |
| −16.29 | | | | | | | | | | | |

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Date$_1$ = Apr. 16, 1874 Observer W.A.R. Recorder J.F.M. Single Observations. Date$_2$ = Apr. 22.1874 Observer Recorder



| Star. | α | δ | Mag. | $T_s$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 37 m 46 s | 53 23 | 9.5 | 37 17.1 | 37 23.8 | 29.3 | 32.7 | 36.1 | 39.6 | 37 m | 32.70 | | |
| | 36 36.3 | 53 27.6 | 9.3 | 20.4 | | | | | | | + 25.83 | | |
| Apr. 22 | κ | | | 24.2 | | | | | | | − 4 | | |
| | | | | 20.7 | | | | | + 25.76 | | − 3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 37 | 58.46 | | |
| | | | | | | | | | | | −1.65 | | |
| | $\alpha_1$ | | | | | | | | | 37 | 56.81 | | +4.1 −16. |
| 9 | 38 59 | 51.33 | 9.1 | 38 19.9 | 38 41.2 | 44.7 | 47.8 | 51.3 | 54.7 | 38 | 47.94 | | |
| | 37 55.1 | 51 37.4 | 8.5 | 22.4 | | | | | | | + 25.83 | | |
| Apr. 22 | κ | | | 25.9 | | | | | | | − 4 | | |
| | | | | 22.7 | | | | | + 25.77 | | − 2 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 39 | 13.70 | | |
| | | | | | | | | | | | −1.59 | | |
| | $\alpha_2$ | | | | | | | | | 39 | 12.12 | | +4.0 −16 |
| 9 | 41 31 | 52.00 | 7.5 | 40 44.7 | 41 9.7 | 13.1 | 16.7 | 19.9 | 23.2 | 41 | 16.56 | | |
| | 40 23.5 | 52 5.0 | 8.0 | 46.8 | | | | | | | + 25.83 | | |
| Apr. 22 | κ | | | 49.8 | | | | | | | − 4 | | |
| | | | | 47.1 | | | | | + 25.77 | | − 2 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 41 | 42.32 | | |
| | | | | | | | | | | | −1.63 | | |
| | $\alpha_1$ | | | | | | | | | 41 | 40.70 | | +40 −16, |
| 9 | 46 30 | 51.55 | 10.0 | 46 83 | 46 15.8 | 19.3 | 22.6 | 26.0 | 28 | 46 | 22.59 | 19.23 | |
| | 45 26.9 | 51 54.7 | 9.5 | 11.1 | 19.14 | 19.30 | 19.26 | 19.31 | | | + 28.84 | | |
| Apr. 22 | κ | | | 13.7 | | | | | | | − 4 | | |
| | | | | 11.7 | | | | | + 25.78 | | − 2 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 46 | 46.81 | 45.01 | |
| | | | | | | | | | | | 1.67 | | |
| | $\alpha_2$ | | | | | | | | | 46 | 44.70 | 43.34 | +40 −16 |
| 9 | 47 46 | 54.52 | 6.9 | 47 8.9 | 47 23.5 | 26.4 | 30.6 | 34.2 | 37.7 | 47 | 30.58 | | |
| | 46 37.3 | 54 56.6 | 7.0 | | | | | | | | + 25.84 | | |
| Apr. 22 | κ | | | | | | | | | | − 4 | | |
| | | | | | | | | | + 25.77 | | − 3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 47 | 4.81 | | |
| | | | | | | | | | | | −1.79 | | |
| | $\alpha_1$ | | | | | | | | | 47 | 54.56 | | +4. −16 |
| 9 | 52 10 | 53.42 | 8.7 | 51 24.8 | 51 47.8 | 51.2 | 54.9 | 58.8 | 1.7 | 51 | 54.78 | | |
| | 51 1.6 | 53 46.2 | 8.7 | | | | | | | | + 25.84 | | |
| Apr. 22 | κ | | | | | | | | | | − 4 | | |
| | | | | | | | | | + 25.77 | | − 3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 52 | 20.85 | | |
| | | | | | | | | | | | −1.80 | | |
| | $\alpha_2$ | | | | | | | | | 52 | 18.75 | | +4 −1 |
| 9 | 53 36 | 53.00 | 8.3 | 52 50.7 | 53 13.2 | 16.6 | 20.1 | 23.6 | 27.0 | 53 | 20.10 | | |
| | 52 27.1 | 53 5.2 | 8.5 | 53.1 | | | | | | | + 25.84 | | |
| Apr. 22 | κ | | | 51.7 | | | | | | | − 4 | | |
| | | | | | | | | | + 25.78 | | − 2 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 53 | 45.88 | | |
| | | | | | | | | | | | −1.78 | | |
| | $\alpha_1$ | | | | | | | | | 53 | 44.10 | | +4. −1 |
| 9 | 55 12 | 53.51 | 9.2 | 54 39.1 | 54 5.00 | 53.2 | 57.0 | 0.2 | 4.2 | 54 | 57.04 | | |
| | 54 2.6 | 53 56.5 | 9.1 | 42.6 | | | | | | | + 25.84 | | |
| Apr. 22 | κ | | | 45.6 | | | | | | | − 4 | | |
| | | | | 42.4 | | | | | + 25.77 | | − 3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 55 | 22.81 | | |
| | | | | | | | | | | | −1.83 | | |
| | $\alpha_2$ | | | | | | | | | 55 | 20.98 | | +4.0 −17 |
| 9 | 58 37 | 49.59 | 8.0 | 58 14.5 | 58 — | — | 30.3 | 34.3 | 38.8 | 58 | | | |
| | 57 35.0 | 50 3.4 | 8.4 | 17.9 | | | | | | | | | |
| Apr. 22 | κ | | | 20.1 | | | | | | | | | |
| | | | | 17.5 | | | | | | | | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |

Rej. Ch. record illegible

| Star. | α | δ | Mag. | $T_s$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 59 54 | 53.42 | 8.5 | 58 52.5 | 59 28.9 | 32.4 | 35.7 | 39.2 | 42.8 | 59 | 35.80 | | |
| | 58 44.8 | 53 47.2 | 8.5 | 55.3 | | | | | | | + 25.85 | | |
| Apr. 22 | κ | | | 52.7 | | | | | | | − 4 | | |
| | | | | | | | | | + 25.78 | | − 3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 00 | 1.58 | | |
| | | | | | | | | | | | −1.87 | | |
| | $\alpha_2$ | | | | | | | | | 59 | 59.71 | | +3.9 −17. |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +11.8 | 0′ 56.8 | 2.1″ | 16 | 59.45 | 53 11 48.90 | | | 10′ | 53 22 0.95 | |
| d | 1.07188 | | | | | 22 10.05 | | | | − 4 | +11.79 |
| | 9.77744 | | | | | − 9.10 | | | | − 4 | |
| | 0.95924m | | | | | | 22 10.95 | | | + 11.40 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 47 | |
| | | | | | | | | | | − 13.50 | |
| +4.12 δ₁ | | 38 0.93 | | 21 42.9 | | | | | | 21 59.24 | |
| −16.32 | | | | | | | | | | | |
| | +25.2 | 0 31.1 | 39.3 | 0 | 35.20 | 51 22 13.15 | | | 0 | 51 82 14.12 | |
| | 1.40140 | | | | | 32 3 4.30 | | | | − 17 | +9.58 |
| d | 9.79367 | | | | | − 20.18 | | | | − 2 | |
| | 1.30499m | | | | | | 32 14.12 | | | + 9.45 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 32 | |
| | | | | | | | | | | − 12.90 | |
| +4.04 δ₂ | | 39 16.16 | | 31 54.4 | | | | | | 32 10.80 | |
| −16.43 | | | | | | | | | | | |
| | +29.2 | 2 54.0 | 59.9 | 32 | 58.95 | 51 49 51.40 | | | 30 | 51 59 49.40 | |
| | 1.46538 | | | | | 52 0 12.55 | | | | − 22 | +9.96 |
| d | 9.78934 | | | | | − 23.15 | | | | − 12 | |
| | 1.36464m | | | | | | 51 59 49.40 | | | + 9.95 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | 29.0 | | | | | | + 35 | |
| | | | | | | | | | | − 12.90 | |
| +4.04 | | | | | | | | | | | |
| −16.51 δ₁ | | 41 44.74 | | 59 ~~30.0~~ | | | | | | 59 46.46 | |
| | +8.1 | +4.5 | 3 30.9 | 37.0 | 38 | 33.95 | 51 44 14.40 | | 35 | 51 54 ~~2645~~ | 26.14 |
| | 0.90849 | 106070 | | | | 52 54 35.55 | | | | − 3 | +10.03 |
| d | 9.78853 | 9.78853 | | | | − 9.10 | | | | − 14 | |
| | 9.80691 | 40.59 15m | | | | | 6.41 54 26.45 | | | + 9.86 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 34 | |
| | | | | | | | | | | − 12.60 | |
| +4.01 δ₂ | | 46 47.35 | | 54 9.8 | | | | | | 54 ~~2388~~ | 26.57 |
| −16.76 | | | | | | | | | | | |
| | +29.7 | 2 24.5 | 29.5 | 42 | 37.00 | 54 40 21.35 | | | 40 | 54 50 20.48 | |
| | 1.47276 | | | | | 50 42.50 | | | | − 23 | +13.14 |
| d | 9.76021 | | | | | − 22.02 | | | | − 10 | |
| | 1.34289m | | | | | | 50 20.48 | | | +12.97 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 30 | |
| | | | | | | | | | | − 13.40 | |
| +4.11 δ₁ | | 47 58.67 | | 50 3.4 | | | | | | 50 20.22 | |
| −16.82 | | | | | | | | | | | |
| | +25.0 | 2 28.0 | 33.7 | 32 | 30.85 | 53 30 17.50 | | | 50 | 53 40 19.58 | |
| | 1.39794 | | | | | 40 38.65 | | | | − 16 | +11.93 |
| d | 9.77250 | | | | | − 19.07 | | | | − 10 | |
| | 1.28036m | | | | | | 40 19.58 | | | + 11.71 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 48 | |
| | | | | | | | | | | − 13.40 | |
| +4.03 δ₂ | | 52 22.78 | | 40 1.1 | | | | | | 40 18.11 | |
| −17.02 | | | | | | | | | | | |
| | +28.2 | 3 32.3 | 40.8 | 33 | 36.90 | 52 49 11.45 | | | 30 | 52 59 10.74 | |
| | 1.45025 | | | | | 59 32.60 | | | | − 21 | +11.11 |
| d | 9.77946 | | | | | − 21.86 | | | | − 14 | |
| | 1.33963m | | | | | | 59 10.74 | | | +11.01 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 45 | |
| | | | | | | | | | | − 12.50 | |
| +4.00 δ₁ | | 53 46.10 | | 58 52.3 | | | | | | 59 9.35 | |
| −17.09 | | | | | | | | | | | |
| | +14.6 | 2 20.3 | 26.2 | 42 | 23.10 | 53 40 25.25 | | | 40 | 53 50 35.31 | |
| | 1.16435 | | | | | 50 46.40 | | | | − 6 | +12.24 |
| d | 9.77078 | | | | | − 11.09 | | | | − 9 | |
| | 1.04505m | | | | | | 50 35.31 | | | +11.90 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 49 | |
| | | | | | | | | | | − 12.60 | |
| +4.02 δ₂ | | 55 25.00 | | 50 17.8 | | | | | | 50 34.95 | |
| −17.16 | | | | | | | | | | | |
| | | 0 7.9 | 14.8 | 35 | 11.35 | 49 47 37.00 | | | 35 | 49 57 | |
| | | | | | | 57 58.15 | | | | | |
| d | | | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| δ₁ | | | | | | | | | | | |
| | | | | | | | | | | 25.50 | |
| +41.9 | +31.9 | 1 8.9 | 16.2 | 51 | 12.05 | 53 31 36.30 | | | 50 | 53 41 ~~33.10~~ | |
| 1.62221 | 1.50879 | | | | | 41 57.45 | | | | − 27 | +11.91 |
| d 9.77233 | 9.77233 | | | | | ~~44.35~~ | | | | − 5 | |
| 1.50446 | 1.28644m | | | | | − 31.95 | ~~4 33.10~~ | | | + 11.75 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 48 | |
| | | | | | | | | | | − 11.90 | |
| +3.98 δ₂ | | 0 3.69 | | 41 8.1 | | | | | | 41 ~~33.11~~ | |
| −17.37 | | | | | | | | | | 25.51 | |

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1874phae.proj.15888

Date$_1$ = Apr. 16, 1874 Observer R. A. R. Recorder J. F. M. Date$_2$ = Apr. 22, 1874 Observer Recorder

295 32

Single Observations

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | h m s | ° ′ ″ | | m s | m s | m s | m s | m s | m s | m | m s | | |
| | 9 00 | 52 53.29 | 9.6 | 1 4.6 | 0 33.8 | 37.3 | 40.8 | 44.2 | 47.6 | 0 | 40.74 | | |
| | 59 | 45.0 53 33.3 | 9.4 | 11.1 | | | | | | | + 25.85 | | |
| Apr. 22 | κ | | | 15.7 | | | | | | | − 4 | | |
| | | | | 11.3 | | | | | + 25.78 | | − 3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 1 | 6.52 | | |
| | | | | | | | | | | | −1.87 | | |
| | $\alpha_1$ | | | | | | | | | 1 | 4.65 | | +3. |
| | | | | | | | | | | | | | −1. |
| | 10 02 | 10 53.40 | 9.1 | 1 24.7 | 1 49.9 | 53.7 | 57.0 | 0.2 | 3.7 | 1 | 36.84 | | |
| | 01 | 3.5 53 45.2 | 9.1 | 27.8 | | | | | | | + 25.85 | | |
| Apr. 22 | κ | | | 30.8 | | | | | | | − 4 | | |
| | | | | 27.5 | | | | | + 25.78 | | − 3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 2 | 22.62 | | |
| | | | | | | | | | | | −1.89 | | |
| | $\alpha_2$ | | | | | | | | | 2 | 20.73 | | +3. |
| | | | | | | | | | | | | | −17 |
| | 10 03 | 86 54.07 | 9.3 | 2 50.8 | 3 15.0 | 18.8 | 22.2 | 25.8 | 29.3 | 3 | 22.22 | | |
| | 02 | 29.1 54 12.3 | 8.5 | 54.3 | | | | | | | + 25.85 | | |
| Apr. 22 | κ | | 9.2 | 57.4 | | | | | | | − 4 | | |
| | | | | 54.2 | | | | | + 25.78 | | − 3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 3 42.4 | 43.2 | 46.6 | 50.0 | 53.6 | 57.1 | 3 | 50.10 | 3 48.00 | |
| | 2 | 58.1 54 12.3 | | 45.6 | | | | | | | + 25.85 | −1.93 | +3.9 |
| | $\alpha_1$ | | | 48.4 | | | | | | 3 | − 4 | 46.07 | −17.53 |
| | | | | 45.5 | | | | | + 25.78 | | − 3 | | +3.9 |
| | | | | | | | | | | 4 | | 15.88 | −17. |
| | 10 04 | 33 54.07 | 8.8 | 4 20.1 | 4 11.6 | 15.1 | 18.7 | 22.3 | 25.7 | 4 | 18.68 | −1.93 | |
| | 03 | 26.6 54 12.3 | 8.5 | 24.3 | | | | | | | + 25.85 | 4 13.95 | |
| Apr. 22 | κ | | | 22.2 | | | | | | | − 4 | | |
| | | | | | | | | | + 25.78 | | − 3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 4 | 44.46 | | |
| | | | | | | | | | | | −1.93 | | |
| | $\alpha_2$ | | | | | | | | | 4 | 42.53 | | +3. |
| | | | | | | | | | | | | | −17 |
| | 10 05 | 36 53.11 | 9.0 | 5 45.3 | 5 16.5 | 19.0 | 22.5 | 26.0 | 29.4 | 5 | 22.48 | | |
| | 04 | 29.5 53 15.1 | 9.2 | 48.3 | | | | | | | + 25.85 | | |
| Apr. 22 | κ | | | 51.5 | | | | | | | − 4 | | |
| | | | | 47.4 | | | | | + 25.78 | | − 3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 5 | 48.26 | | |
| | | | | | | | | | | | −1.90 | | |
| | $\alpha_1$ | | | | | | | | | 5 | 46.36 | | +3. |
| | | | | | | | | | | | | | −17. |
| | 10 07 | 41 51.25 | 9.2 | 7 0.2 | 7 23.2 | 26.9 | 30.3 | 33.5 | 36.8 | 7 | 30.14 | | |
| | 06 | 39.6 51 29.9 | 8.6 | 3.3 | | | | | | | + 25.85 | | |
| Apr. 22 | κ | | | 6.2 | | | | | | | − 4 | | |
| | | | | 2.2 | | | | | + 25.79 | | − 2 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 7 | 55.93 | 5 | |
| | | | | | | | | | | | −1.87 | | |
| | $\alpha_2$ | | | | | | | | | | 54.068 | | +3. |
| | | | | | | | | | | | | | −17 |
| | 10 09 | 17 52.55 | 8.6 | 8 24.6 | 8 54.9 | 58.2 | 1.4 | 4.0 | 8.4 | 9 | 31.54 | | |
| | 08 | 10.1 53 0.8 | 8.0 | 33.1 | | | | | | | + 25.85 | | |
| Apr. 22 | κ | | | 35.5 | | | | | | | − 4 | | |
| | | | | 32.7 | | | | | + 25.79 | | − 2 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 9 | 27.33 | | |
| | | | | | | | | | | | −1.93 | | |
| | $\alpha_1$ | | | | | | | | | 9 | 25.40 | | +3. |
| | | | | | | | | | | | | | −17. |
| | 10 13 | 15 54.46 | 9.3 | 12 21.7 | 12 53.3 | 56.9 | 0.4 | 4.0 | 7.5 | 13 | 60.42 | | |
| | 12 | 10.4 54 50.6 | 9.4 | 23.1 | | | | | | | + 25.85 | | |
| Apr. 22 | κ | | | 24.3 | | | | | | | − 4 | | |
| | | | | 24.2 | | | | | + 25.78 | | − 3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 13 | 26.20 | | |
| | | | | | | | | | | | − 2.04 | | |
| | $\alpha_2$ | | | | | | | | | 13 | 24.16 | | +3. |
| | | | | | | | | | | | | | −17. |
| | 10 14 | 25 54.34 | 9.4 | 13 48.2 | 14 14.2 | 17.8 | 21.4 | 25.0 | 28.6 | 14 | 21.40 | | |
| | 13 | 29.8 54 43.8 | 9.2 | 52.1 | | | | | | | + 25.85 | | |
| Apr. 22 | κ | | | 50.1 | | | | | | | − 4 | | |
| | | | | | | | | | + 25.78 | | − 3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 14 | 47.18 | 6 | |
| | | | | | | | | | | | − 2.08 | | |
| | $\alpha_1$ | | | | | | | | | | 45.182 | | +3. |
| | | | | | | | | | | | | | −17. |
| | 10 27 | 29 54.26 | 8.0 | 26 55.2 | 27 39 | 9.6 | 13.1 | 16.6 | 20.2 | 27 | 13.08 | | |
| | 26 | 24.1 54 31.2 | 8.2 | 56.4 | | | | | | | + 25.86 | | |
| Apr. 22 | κ | | | 57.7 | | | | | | | − 4 | | |
| | | | | 56.4 | | | | | + 26.79 | | − 3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 27 | 38.87 | | |
| | | | | | | | | | | | − 2.15 | | |
| | $\alpha_2$ | | | | | | | | | 27 | 36.72 | | +3. |
| | | | | | | | | | | | | | −18. |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +29.4 | 4 43.0 | 47.9 | 4′ | 45.45 | 53 18 2.90 | | | 0′ | 53 28 1.51 | |
| | 1.46835 | | | | | 28 24.05 | | | | − 22 | +11.57 |
| d | 9.77473 | | | | | − 22.54 | | | | − 19 | |
| | 1.35300 m | | | | | | 28 1.51 | | | + 11.51 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 47 | |
| | | | | | | | | | | − 12.20 | |
| +3.97 $\delta_1$ | | 1 8.62 | | 27 43.5 | | | | | | 28 0.88 | |
| −17.41 | | | | | | | | | | | |
| | +29.0 | 3 11.7 | 17.6 | 53 | 14.65 | 53 29 33.70 | | | 50 | 53 39 32.72 | |
| | 1.46240 | 53 39 32.72 | | | | 39 54.85 | | | | − 22 | +11.82 |
| d | 9.77268 | | | | | − 22.13 | | | | − 13 | |
| | 1.34500 m | | | | | | 39 32.72 | | | + 11.69 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 98 | |
| | | | | | | | | | | − 12.10 | |
| +3.96 | | | | | | | | | | | |
| −17.47 $\delta_2$ | | 2 24.69 | | 39 15.0 | | | | | | 39 32.84 | |
| | +27.9 | 1 36.0 | 41.7 | 26 | 38.85 | 53 56 9.50 | | | 25 | 54 6 9.58 | 6 27.18 |
| | 1.44560 | 1 36.0 | 41.7 | 26 | 38.85 | 53 56 9.50 | | | 25 | − 20 | − 1 |
| d | 9.76817 | 54 6 9.58 | | 54 6 27.18 | | 54 6 30.65 | 6 9.58 | | | − 7 | − 7 |
| +3.97 | 1.32369 m | +12.43 | | +12.63 | | 54 6 30.65 | | | | +12.20 | + 12.21 |
| −17.53 ((δ) − D) $\frac{d'}{100}$ | + 4.6 | | | | | − 21.07 | | | | + 50 | + 50 |
| | 0.66276 | | | | | − 3.47 | 6 27.18 | | | − 1220 | − 12.20 |
| +3.97 $\delta_1$ | 9.76817 | 3 50.0 | | 5 52.3 | | | | | | 6 9.81 | 6 24.61 |
| −17.53 | 0.54085 m | 4 17.92 | | 6 10.1 | | | | | | | |
| | − 3.5 | 1 50.0 | 54.9 | 26 | 52.45 | 53 55 55.90 | | | 25 | 54 6 19.69 | |
| | 0.54407 m | | | | | 54 6 17.05 | | | | − 1 | +12.61 |
| d | 9.76817 | | | | | + 2.64 | | | | − 8 | |
| | 0.42216 | | | | | | 6 19.69 | | | + 12.20 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 50 | |
| | | | | | | | | | | − 12.10 | |
| +3.96 | | | | | | | | | | | |
| −17.57 $\delta_2$ | | 4 46.49 | | 6 2.6 | | | | | | 6 20.20 | |
| | − 25.9 | 3 6.2 | 12.8 | 23 | 9.25 | 52 59 39.10 | | | 20 | 53 10 24.25 | |
| | 1.41330 m | | | | | 53 10 0.25 | | | | − 18 | +11.36 |
| d | 9.77778 | | | | | +20.00 | | | | − 12 | |
| | 1.30100 | | | | | | 10 20.25 | | | + 11.20 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 46 | |
| | | | | | | | | | | − 11.80 | |
| +3.92 | | | | | | | | | | | |
| ~~−17.62~~ $\delta_1$ | | 5 50.28 | | | | | | | | 10 19.81 | |
| | +26.7 | 3 26.0 | 31.3 | ~~78~~ | 28.65 | 51 ~~44~~ 19.70 | | | ~~85~~ | 51 ~~54~~ 19.48 | |
| | 1.42975 | 1.42975 | | | | 51 54 40.85 | | | | − 19 | +9.88 |
| d | ~~9.79015~~ | 9.75454 | | | | 2 − 21.37 | | | | − 14 | |
| | ~~4.32982~~ m | 3.34611 m | | | | 61 ~~50 1948~~ | | | | + 9.86 | 9.32 |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 35 | |
| | | | | | | | | | | − 11.30 | |
| +3.86 $\delta_2$ | | 7 58.94 | | 23 59.6 | | | | | | 54 ~~1506~~ | |
| −17.66 | | | | | | | | | | 24 17.78 | |
| | +28.8 | 3 50.1 | 55.9 | 38 | 53.00 | 52 43 55.35 | | | 35 | 52 53 54.12 | |
| | 1.45939 | | | | | 54 16.50 | | | | − 22 | +10.98 |
| d | 9.78047 | | | | | − 22.38 | | | | − 15 | |
| | 1.34978 m | | | | | | 53 54.12 | | | + 10.91 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 44 | |
| | | | | | | | | | | − 11.50 | |
| +3.89 $\delta_1$ | | 9 29.29 | | 53 35.8 | | | | | | 53 53.60 | |
| −17.76 | | | | | | | | | | | |
| | +36.2 | 3 6.4 | 11.8 | 48 | 9.10 | 54 34 39.25 | | | 45 | 54 44 33.49 | |
| | 1.55871 | | | | | 45 0.40 | | | | − 33 | +12.94 |
| d | 9.76129 | | | | | − 26.91 | | | | − 12 | |
| | 1.42992 m | | | | | | 44 33.49 | | | + 12.89 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 50 | |
| | | | | | | | | | | − 11.80 | |
| +3.92 | | | | | | | | | | | |
| −17.93 $\delta_2$ | | 13 28.08 | | 44 16.7 5 | | 2 | | | | 44 34.63 29 | |
| | +31.3 | 4 58.9 | 54.0 | 24 | 52.45 | 54 ~~57~~ 55.90 | | | ~~20~~ 50 | 55 ~~07~~ 54~~07~~ | |
| | 1.49554 | 1.49554 | | | | 55 38 17.05 5 | | | | 37 − 25 | +13.33 |
| d | ~~9.75714~~ | 9.75165 | | | | − 23.09~~5~~ | | | | − 20 | .86 |
| | ~~1.36258~~ 60 | 1.35711 | | | | 22.76 | 7 54.01 | | | + 1328 | 13.81 |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 50 | |
| | | | | | | | | | | − 11.70 | 11.93 |
| +3.91 $\delta_1$ | | 14 49.03 | | 34 38.2 | | | | | | 37 ~~5564~~ 5622 | |
| −17.98 | | | | | | | | | | | |
| | +16.7 | 2 31.7 | 37.8 | 7 | 34.75 | 54 15 13.60 | | | 5 | 54 25 22.25 | |
| | 1.22272 | | | | | 25 34.75 | | | | − 7 | +12.58 |
| d | 9.76466 | | | | | − 12.50 | | | | − 10 | |
| | 1.09730 m | | | | | | 25 22.25 | | | + 12.55 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 50 | |
| | | | | | | | | | | − 10.70 | |
| +3.80 | | | | | | | | | | | |
| −18.45 $\delta_2$ | | 27 40.52 | | 25 6.0 | | | | | | 25 24.43 | |

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Date$_1$ = Apr. 16, 1874 Observer W. A. K. Recorder J. H. M. Single Observations. Date$_2$ = Apr. 22, 1874 Observer Recorder

295 34

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1h 32m 06s | 50° 17′ | 9.8 | 31m 33.4 | 31m 14.8 | 57.2 | 54.2 | 54.4 | 0.9 | 31m | 54.30 | | |
| | 31 7.6 | 50 21.5 | 9.3 | 33.4 | | | | | | | + 25.86 | | |
| Apr. 22 | κ | | | 29.3 | | | | | | | — 4 | | |
| | | | | 26.2 | | | | | + 25.80 | | — 2 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | 32 | 20.10 | | |
| | | | | | | | | | | | −1.98 | | |
| | $\alpha_1$ | | | | | | | | | 32 | 18.12 | | |
| 10 | 40 15 | 50.37 | 9.7 | 39 24.8 | 39 56.2 | 59.8 | 2.7 | 5.5 | 9.5 | 40 | 280 | | |
| | 39 16.6 | 50 41.7 | 9.0 | 25.3 | | | | | | | + 25.87 | | |
| Apr. 22 | κ | | | 33.9 | | | | | | | — 4 | | |
| | | | | 32.7 | | | | | + 25.81 | | — 2 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | 40 | 28.61 | | |
| | | | | | | | | | | | − 2.05 | | |
| | $\alpha_2$ | | | | | | | | | 40 | 26.56 | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +18.91 | 2′ 8.9″ | 14.6 | 17″ | 11.95″ | 50 5 36.60 | | | 15″ | 50 15 42.85 | |
| d | 1.25768 | | | | | 15 57.75 | | | | − 9 | +8.24 |
| | 9.80565 | | | | | −14.90 | | | | − 9 | |
| $((\delta) - D)\frac{d'}{100}$ | 1.17325m | | | | | | 15 42.85 | | | + 8.16 | |
| | | | | | | | | | | + 26 | |
| +3.67 | | | | | | | | | | − 9.20 | |
| −18.60 $\delta_1$ | | 32 21.79 | | 15 23.3 | | | | | | 15 41.89 | |
| | +30.1 | 1′ 59.9 | 6.0 | 5″7 | 2.95 | 50 25 45.40 | | | 55 | 50 35 41.94 | |
| | 1.47857 | | | | | 36 6.55 | | | | − 24 | +8.47 |
| d | 9.80259 | | | | | − 24.61 | | | | − 8 | |
| $((\delta) - D)\frac{d'}{100}$ | 1.39168m | | | | | | 35 41.94 | | | + 8.51 | |
| | | | | | | | | | | + 28 | |
| +3.62 | | | | | | | | | | − 8.70 | |
| −18.86 $\delta_2$ | | 40 30.18 | | 35 22.8 | | | | | | 35 41.71 | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |

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296

Date$_1$ = May 7, 1874 $n$ = −.11 Observer W.A.R. Recorder G.F.M.

297

Date$_2$ = May 11, 1874 $n$ = −.18 Observer W.A.R. Recorder S.D.M.

36

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | h m s | | | m s | m s | s | s | s | s | m | m s | | |
| | 13 46 | 52 28 | 7.8 | 12 48.0 | 13 8.4 | 11.9 | 16.3 | 18.7 | 22.0 | 13 | 15 26 | | |
| | 12 47.6 | 52 33.4 | 7.2 | 48.5 | | | | | | | + 38.86 | | |
| κ | | | | 54.6 | | | | | | | − .14 | | |
| | | | | 51.0 | | | | | + 38.70 | | − 2 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 13 | 53.96 | | |
| | | | | | | | | | | | − 2.13 | | |
| 12 24 $c_1$ | | | | | | | | | | 13 | 51.83 | | |
| | | | 7.5 | 12 47.5 | 13 4.7 | 8.2 | 11.6 | 15.0 | 18.5 | 13 | 11.60 | | |
| | | | | 50.7 | | | | | | | + 42.49 | | |
| κ | | | | 53.7 | | | | | | | − .23 | | |
| | | | | 50.6 | | | | | + 42.24 | | − 2 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 13 | 53.84 | | |
| | | | | | | | | | | | − 2.05 | | |
| $c_2$ | | | | | | | | | | 13 | 51.79 | | |
| | 14 34 | 53 16 | 8.9 | 13 44.6 | 13 59.6 | 3.1 | 6.6 | 10.0 | 13.6 | 14 | 6.58 | | |
| | 13 35.8 | 53 21.8 | 9.0 | 47.5 | | | | | | | + 38.86 | | |
| κ | | | | 53.7 | | | | | | | − .15 | | |
| | | | | 47.6 | | | | | + 38.68 | | − 3 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 14 | 45.26 | | |
| | | | | | | | | | | | − 2.16 | | |
| $\alpha_1$ | | | | | | | | | | 14 | 43.10 | | |
| | | | 9.0 | 13 58.9 | 13 56.2 | 59.4 | 3.0 | 6.4 | 9.8 | 14 | 2.96 | | |
| | | | | 42.7 | | | | | | | + 42.49 | | |
| κ | | | | 46.4 | | | | | | | − .24 | | |
| | | | | 42.7 | | | | | + 42.69 22 | | − 3 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 14 | 45.18 | | |
| | | | | | | | | | | | − 2.07 | | |
| $\alpha_2$ | | | | | | | | | | 14 | 43.11 | | |
| | 16 25 | 52 10 | 8.7 | 15 23.4 | 15 47.9 | 51.4 | 54.2 | 58.1 | 1.5 | 15 | 54.72 | | |
| | 15 27.1 | 52 15.6 | 8.0 | 26.2 | | | | | | | + 38.86 | | |
| κ | | | | 29.8 | | | | | | | − .14 | | |
| | | | | 26.5 | | | | | + 38.70 | | − 2 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 16 | 33.42 | | |
| | | | | | | | | | | | − 2.13 | | |
| $\alpha_1$ | | | | | | | | | | 16 | 31.29 | | |
| | | | 8.7 | 15 15.4 | 15 44.4 | 47.8 | 51.1 | 54.5 | 57.8 | 15 | 51.12 | | |
| | | | | 19.1 | | | | | | | + 42.49 | | |
| κ | | | | 22.9 | | | | | | | − .23 | | |
| | | | | 17.7 | | | | | + 42.24 | | − 2 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 16 | 33.36 | | |
| | | | | | | | | | | | − 2.04 | | |
| $\alpha_2$ | | | | | | | | | | 16 | 31.32 | | |
| | 17 23 | 54 41 | 9.1 | 16 30.5 | 16 45.5 | 51.1 | 54.6 | 58.8 | 1.7 | 16 | 54.64 | | |
| | 16 24.5 | 54 46.7 | 8.8 | 34.0 | | | | | | | + 38.86 | | |
| κ | | | | 38.3 | | | | | | | − .15 | | |
| | | | | 34.3 | | | | | + 38.68 | | − 3 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 17 | 33.32 | | |
| | | | | | | | | | | | − 2.24 | | |
| $\alpha_1$ | | | | | | | | | | 17 | 31.08 | | |
| | | | 9.1 | 16 21.9 | 16 43.8 | 47.3 | 51.1 | 54.7 | 58.2 | 16 | 51.06 | | |
| | | | | 26.4 | | | | | | | + 42.49 | | |
| κ | | | | 30.4 | | | | | | | − .25 | | |
| | | | | 26.2 | | | | | + 42.21 | | − 3 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 17 | 33.27 | | |
| | | | | | | | | | | | − 2.15 | | |
| $\alpha_2$ | | | | | | | | | | 17 | 31.12 | | |
| | 19 00 | 54 15 | 9.6 | 17 57.7 | 18 23.6 | 27.3 | 30.5 | 34.0 | 37.7 | 18 | 30.62 | | |
| | 18 2.2 | 54 20.6 | 9.3 | dif | | | | | | | + 38.86 | | |
| κ | | | | 4.6 | | | | | | | − .15 | | |
| | | | | 60.8 | | | | | + 38.68 | | − 3 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 19 | 9.30 | | |
| | | | | | | | | | | | − 2.24 | | |
| $\alpha_1$ | | | | | | | | | | 19 | 7.06 | | |
| | | | 9.6 | 18 6.7 | 18 19.9 | 23.3 | 27.0 | 30.4 | 33.7 | 18 | 26.86 | | |
| | | | | 9.8 | | | | | | | + 42.49 | | |
| κ | | | | 12.4 | | | | | | | − .25 | | |
| | | | | 7.7 | | | | | + 42.21 | | − 3 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 19 | 9.07 | | |
| | | | | | | | | | | | − 2.15 | | |
| $\alpha_2$ | | | | | | | | | | 19 | 6.92 | | |

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Runs $R_{eq}$ = +10.2002. May 7 / May 11 17.33 − .05 − .05

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +24.3° | 0 ′ 30.4″ | 40.8 | 5′ | 35.60 | 52 17 12.75 | | | 5′ | 52 27 13.70 | |
| 3.66 d | 1.38561 | | | | | 27 32.77 | | | | − .15 | +10.68 |
| | 9.78478 | | | | | −19.07 | | | | − 3 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.28031$_n$ | | | | | | 27 13.70 | | | + 10.46 | |
| | | | | | | | | | | + 40 | |
| +3.42 $\delta_1$ | | | | | | | | | | − 9.80 | |
| −19.65 | | 13 55.25 | | 26 54.9 | | | | | | 27 14.58 | |
| | +21.0 | 0 29.0 | 40.9 | 5′ | 34.95 | 52 17 13.40 | | | 5′ | 14.25 | |
| d | 1.32222 | | | | | 27 30.73 | | | | − .12 | +10.83 |
| | 9.78478 | | | | | −16.48 | | | | − 3 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.21692$_n$ | | | | | | 27 14.25 | | | + 10.58 | |
| +3.42 | | | | | | | | | | + 40 | |
| −19.65 $\delta_2$ | | 13 55.21 | | 26 56.1 | | | | | | − 9.80 | |
| | | | | | | | | | | 27 15.78 | |
| | +19.0 | 2 59.8 | 8.9 | 18 | 4.35 | 53 4 44.00 | | | 15′ | 53 14 49.38 | |
| 62 | 1.27875 | | | | | 15 4.02 | | | | − 9 | +11.49 |
| d | 9.77694 | | | | | −14.64 | | | | − 15 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.16561$_n$ | | | | | | 14 49.38 | | | + 11.32 | |
| | | | | | | | | | | + .41 | |
| +3.42 $\delta_1$ | | | | | | | | | | − 9.90 | |
| −19.66 | | 14 46.52 | | 14 31.3 | | | | | | 14 50.97 | |
| | +20.3 | 3 55.0 | 4.1 | 17 | 5 9.55 | 53 4 48.80 | | | 15′ | 50.49 | |
| d | 1.30750 | | | | | 15 6.13 | | | | − 10 | +11.59 |
| | 9.77694 | | | | | −15.64 | | | | − 15 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.19436$_n$ | | | | | | 14 50.49 | | | + 11.44 | |
| | | | | | | | | | | + .40 | |
| +3.42 $\delta_2$ | | | | | | | | | | − 9.40 | |
| −19.66 | | 14 46.53 | | 14 33.0 | | | | | | 14 52.68 | |
| | +28.2 | 1 59.1 | 9.1 | 22 | 4.10 | 52 0 44.25 | | | 20′ | 52 10 42.00 | |
| 60 | 1.45025 | | | | | 11 4.27 | | | | − .21 | +10.27 |
| d | 9.78756 | | | | | −22.27 | | | | − 10 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.34773$_n$ | | | | | | 10 42.00 | | | + 10.18 | |
| | | | 9 | 23.1 | | | | | | + .40 | ✓ |
| +3.40 $\delta_1$ | | 16 34.61 | | 10 ~~22.9~~ | | | | | | − 9.50 | |
| −19.69 | | | | | | | | | | 10 42.37 | |
| | +~~31.4~~ 30.0 | 1 ~~1~~40 53.1 | ~~22.3~~ 2.0 | 21 | 5 7.55 | 52 0 50.80 | | | 20′ | 42.86 | |
| d | 1.50515 | | | | | 11 8.13 | | | | − .27 | +10.32 |
| | 9.78756 | | | | | −25.27 | | | | − 10 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.40263$_n$ | | | | | | 10 42.86 | | | + 10.29 | |
| | | | | | | | | | | + .40 | |
| +3.40 $\delta_2$ | | | | | | | | | | − 9.00 | |
| −19.69 | | 16 34.72 | | 10 24.5 | | | | | | 10 44.18 | |
| | +20.3 | 3 14.0 | 22.3 | 53 | 18.15 | 54 29 30.20 | | | 50′ | 54 39 35.10 | |
| 58 | 1.30750 | | | | | 39 50.22 | | | | − .10 | +13.04 |
| d | 9.76218 | | | | | −15.12 | | | | − 16 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.17960$_n$ | | | | | | 39 35.10 | | | + 12.82 | |
| | | | | | | | | | | + 48 | |
| +3.42 $\delta_1$ | | | | | | | | | | − 10.10 | |
| −19.71 | | 17 34.50 | | 39 18.3 | | | | | | 39 38.04 | |
| | +24.9 | 3 8.4 | 17.1 | 53 | 12.75 | 54 29 35.60 | | | 50′ | 34.38 | |
| d | 1.39620 | | | | | 39 52.93 | | | | − .16 | +13.12 |
| | 9.76218 | | | | | −18.55 | | | | − 16 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.26830$_n$ | | | | | | 39 34.38 | | | + 12.98 | |
| | | | | | | | | | | + .46 | |
| +3.42 $\delta_2$ | | | | | | | | | | − 9.30 | |
| −19.71 | | 17 34.54 | | 39 18.5 | | | | | | 39 38.20 | |
| | +29.8 | 3 25.0 | 33.3 | 18 | 29.15 | 54 4 19.20 | | | 15′ | 54 14 16.79 | |
| 74 | 1.47422 | | | | | 14 39.22 | | | | − .23 | +12.42 |
| d | 9.76660 | | | | | −22.43 | | | | − 17 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.35074$_n$ | | | | | | 14 16.79 | | | + 12.36 | |
| | | | | | | | | | | + .46 | |
| +3.40 $\delta_1$ | | | | | | | | | | − 9.90 | |
| −19.73 | | 19 10.46 | | 13 59.6 | | | | | | 14 19.31 | |
| | +17.2 | 3 39.0 | 40.1 | 18 | 35.05 | 54 4 13.30 | | | 15′ | 17.69 | |
| d | 1.23553 | | | | | 14 30.63 | | | | − 7 | +12.69 |
| | 9.76660 | | | | | −12.94 | | | | − 18 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.11205$_n$ | | | | | | 14 17.69 | | | + 12.52 | |
| | | | 9 | 5 | | | | | | + .42 | |
| +3.40 $\delta_2$ | | 18 10.32 | | 14 1.8 | | | | | | − 9.10 | |
| −19.73 | | | | | | | | | | 14 21.28 | |

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Date$_1$ = May 7, 1874 Observer Z.A.R. Recorder J.E.M.

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Date$_2$ = May 11, 1874 Observer Recorder

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| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| κ | 22 08 | 50 00 | 9.6 | 21 13.9 | 21 32.8 | 36.1 | 39.2 | 42.7 | 45.9 | | | 21 39.34 | |
| | 21 12.4 | 50 5.9 | 9.5 | 16.3 | | | | | | | | + 38.86 | |
| | | | | 17.8 | | | | | | | | − .13 | |
| | | | | 16.0 | | | | | | | + 38.71 | − 2 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | 22 18.05 | |
| $a_1$ | | | | | | | | | | | | − 2.08 | |
| | | | | | | | | | | | | 22 15.97 | |
| κ | | | 9.6 | 21 48.4 | 21 29.3 | 32.6 | 36.0 | 39.1 | 42.4 | | | 21 35.88 | |
| | | | | 51.1 | | | | | | | | + 42.49 | |
| | | | | 58.2 | | | | | | | | − .21 | |
| | | | | 59.9 | | | | | | | + 42.26 | − 2 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | 22 18.14 | |
| $a_2$ | | | | | | | | | | | | − 2.00 | |
| | | | | | | | | | | | | 22 16.14 | |
| κ | 23 22 | 53 20 | 8.7 | 22 22.8 | 22 44.9 | 48.1 | 51.5 | 55.2 | 58.6 | | | 22 51.62 | |
| | 22 25.0 | 53 26.1 | 8.8 | 25.4 | | | | | | | | + 38.86 | |
| | | | | 29.0 | | | | | | | | − .13 | |
| | | | | 26.5 | | | | | | | + 38.68 | − 3 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | 23 3 40.30 | |
| $a_1$ | | | | | | | | | | | | − 2.22 | |
| | | | | | | | | | | | | 23 28.08 | |
| κ | | | 8.7 | 22 32.7 | 22 49.4 | 44.6 | 48.1 | 51.4 | 54.7 | | | 22 48.08 | |
| | | | | 35.6 | | | | | | | | + 42.49 | |
| | | | | 38.4 | | | | | | | | − .24 | |
| | | | | 32.7 | | | | | | | + 42.22 | − 3 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | 23 3 0.80 | |
| $a_2$ | | | | | | | | | | | | − 2.15 | |
| | | | | | | | | | | | | 23 ~~28.01~~ 28.15 | |
| κ | 25 33 | 50 07 | 9.4 | 24 38.0 | 24 55.5 | 1.9 | 4.9 | 8.2 | 11.4 | | | 25 4.98 | |
| | 24 37.6 | 50 12.5 | 9.4 | 37.6 | | | | | | | | + 38.86 | |
| | | | | 40.3 | | | | | | | | − .13 | |
| | | | | 37.6 | | | | | | | + 38.71 | − 2 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | 25 43.69 | |
| $a_1$ | | | | | | | | | | | | − 2.10 | |
| | | | | | | | | | | | | 25 41.59 | |
| κ | | | 9.2 | 24 35.3 | 24 55.0 | 58.2 | 1.4 | 4.7 | 7.8 | | | 25 1.42 | |
| | | | | 38.2 | | | | | | | | + 42.49 | |
| | | | | 42.0 | | | | | | | | − .21 | |
| | | | | 24.5 | | | | | | | + 42.26 | − 2 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | 25 43.68 | |
| $a_2$ | | | | | | | | | | | | − 2.02 | |
| | | | | | | | | | | | | 25 41.66 | |
| κ | 26 11 | 50 08 | 8.6 | 25 20.4 | 25 38.8 | 46.2 | 49.3 | 46.6 | 49.9 | | | 25 43.36 | |
| | 25 15.7 | 50 14.0 | 8.8 | 22.8 | | | | | | | | + 38.86 | |
| | | | | 26.1 | | | | | | | | − .13 | |
| | | | | 23.1 | | | | | | | + 38.71 | − 2 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | 26 22.04 | |
| $a_1$ | | | | | | | | | | | | − 2.11 | |
| | | | | | | | | | | | | 26 19.96 | |
| κ | | | 9.0 | 25 34.2 | 25 53.3 | 56.5 | 59.8 | 42.8 | 46.4 | | | 25 39.76 | |
| | | | | 36.0 | | | | | | | | + 42.49 | |
| | | | | 39.0 | | | | | | | | − .21 | |
| | | | | 36.4 | | | | | | | + 42.26 | − 2 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | 26 22.02 | |
| $a_2$ | | | | | | | | | | | | − 2.03 | |
| | | | | | | | | | | | | 26 19.99 | |
| κ | 27 36 | 52 27 | 8.6 | 26 37.6 | 26 50.2 | 3.7 | 7.1 | 10.6 | 13.7 | | | 27 7.06 | |
| | 26 42.3 | 52 32.1 | 8.5 | 41.7 | | | | | | | | + 38.86 | |
| | | | | 44.4 | | | | | | | | − .14 | |
| | | | | 40.9 | | | | | | | + 38.70 | − 2 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | 27 45.76 | |
| $a_1$ | | | | | | | | | | | | − 2.21 | |
| | | | | | | | | | | | | 27 43.55 | |
| κ | | | 8.6 | 26 42.7 | 26 56.8 | 0.1 | 3.4 | 6.8 | 10.5 | | | 27 3.52 | |
| | | | | 45.8 | | | | | | | | + 42.48 | |
| | | | | 48.5 | | | | | | | | − .23 | |
| | | | | 45.7 | | | | | | | + 42.23 | − 2 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | 27 45.75 | |
| $a_2$ | | | | | | | | | | | | − 2.14 | |
| | | | | | | | | | | | | 27 43.61 | |

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Runs May 7 May 11

$R_{eq}$ = +10° 20″02 17.″53

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | δ | 3′ 2.″7 | 1a8′ | 33′ | 6.″75 | 49 49 41.60 | | | 30′ | 49 59 42.33 | |
| | +23.3 | | | | | 50 0 1.62 | | | | − .14 | +7.88 |
| 46 d | 1.36736 | | | | | −19.29 | | | | − .16 | |
| | 9.80807 | | | | | 49 59 42.33 | | | | + 7.88 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.28535m | | | | | | | | | + .30 | |
| | | | | | | | | | | − 8.60 | |
| +3.33 $\delta_1$ | | 22 19.30 | | 59 21.8 | | | | | | 59 41.61 | |
| | −15.0 | 3 31.3 | 40.1 | 33 | 35.70 | 49 49 12.65 | | | 30 | 42.40 | |
| | 1.17609n | | | | | 59 29.98 | | | | − .6 | +8.04 |
| d | 9.80807 | | | | | + 12.42 | | | | − .18 | |
| | 1.09468 | | | | | 59 42.40 | | | | + 7.98 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .30 | |
| | | | | | | | | | | − 8.00 | |
| +3.33 $\delta_2$ | | 22 19.47 | | 59 22.7 | | | | | | 59 42.44 | |
| | +26.0 | 3 50.9 | 59.3 | 13 | 55.10 | 53 8 53.25 | | | 10 | 53 18 53.26 | |
| 54 | 1.41497 | | | | | 19 13.27 | | | | − .18 | +11.42 |
| d | 9.77626 | | | | | − 20.01 | | | | − .20 | |
| | 1.30115m | | | | | 18 53.26 | | | | + 11.39 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .41 | |
| | | | | | | | | | | − 9.30 | |
| +3.36 $\delta_1$ | | 23 31.44 | | 18 35.6 | | | | | | 18 55.38 | |
| | +12.4 | 3 58.1 | 8.2 | 14 | 3.15 | 53 8 45.20 | | | 10 | 52.99 | |
| | 1.09342 | | | | | 19 2.53 | | | | − 4 | +11.69 |
| d | 9.77626 | | | | | − 9.54 | | | | − .20 | |
| | 0.97960n | | | | | 18 52.99 | | | | +11.53 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 8.70 | |
| +3.36 $\delta_2$ | | 23 31.51 | | 18 36.2 | | | | | | 18 55.98 | |
| | +26.4 | 0 58.0 | 7.0 | 26 | 2.50 | 49 56 45.85 | | | 25 | 50 6 43.24 | |
| 56 | 1.43775 | | | | | 50 7 5.87 | | | | − .20 | +8.05 |
| d | 9.80701 | | | | | −22.63 | | | | − .5 | |
| | 1.35468n | | | | | 6 43.24 | | | | + 8.00 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .30 | |
| | | | | | | | | | | − 8.50 | |
| +3.31 $\delta_1$ | | 25 44.90 | | 6 23.0 | | | | | | 6 42.79 | |
| | +22.9 | 0 58.5 | 8.0 | 26 | 3.25 | 49 56 45.10 | | | 25 | 43.52 | |
| d | 1.35984 | | | | | 50 7 2.43 | | | | − .14 | +8.21 |
| | 9.80701 | | | | | −18.91 | | | | − .5 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.27677n | | | | | 6 43.52 | | | | + 8.10 | |
| | | | | | | | | | | + .30 | |
| | | | | | | | | | | − 8.00 | |
| +3.31 $\delta_2$ | | 25 44.97 | | 6 23.9 | | | | | | 6 43.73 | |
| | +20.3 | 3 39.6 | 47.2 | 23 | 43.40 | 49 59 4.95 | | | 20 | 50 9 8.26 | |
| 60 | 1.30750 | | | | | 50 9 24.97 | | | | − .11 | +8.05 |
| d | 9.80671 | | | | | −16.71 | | | | − .18 | |
| | 1.22313n | | | | | 9 8.26 | | | | + 8.04 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .30 | |
| | | | | | | | | | | − 8.30 | |
| +3.31 $\delta_1$ | | 26 23.27 | | 8 48.2 | | | | | | ~~51.38~~ | |
| | | | | | | | | | | 9 8.01 | |
| | +3.4 | 3 51.1 | 59.2 | 23 | 55.15 | 49 58 53.20 | | | 20 | 9 7.72 | |
| | 0.53148 | | | | | 50 9 10.53 | | | | − .00 | +8.24 |
| d | 9.80671 | | | | | ~~−2.506~~ | | | | − .20 | |
| | 0.44811n | | | | | 2.81 8 42.47 | | | | + 8.14 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .30 | |
| | | | | | | | | | | − 7.80 | |
| +3.31 $\delta_2$ | | 26 23.30 | | 8 48.3 | | | | | | 9 8.16 | |
| | +26.2 | 1 49.8 | 57.3 | 6 | 53.55 | 52 15 54.80 | | | 5 | 52 25 54.25 | |
| 54 | 1.41830 | | | | | 26 14.82 | | | | − .18 | +10.58 |
| d | 9.78510 | | | | | −20.57 | | | | − .09 | |
| | 1.31332n | | | | | 25 54.25 | | | | + 10.15 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 8.90 | |
| +3.32 $\delta_1$ | | 27 46.67 | | 25 36.1 | | | | | | 25 55.93 | |
| | +17.8 | 1 53.1 | 3.1 | 6 | 58.10 | 52 15 50.25 | | | 5 | 53.60 | |
| | 1.25042 | | | | | 26 7.58 | | | | − 9 | +10.79 |
| d | 9.78570 | | | | | −13.98 | | | | − 10 | |
| | 1.14544n | | | | | 25 53.60 | | | | + 10.58 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 8.30 | |
| +3.32 $\delta_2$ | | 27 46.93 | | 25 36.2 | | | | | | 25 56.09 | |

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Date$_1$ = May 7, 1874 Observer W. A. R. Recorder J. F. M.

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Date$_2$ = May 11, 1874 Observer Recorder

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Run

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 phae | m s | ° ′ | | m s | m s | s | s | s | s | | | m | s |
| | 28 | 40 50 24 | 9.0 | 29 41.0 | 28 45 | 8.2 | 11.4 | 14.8 | 18.0 | | | 28 | 11.44 |
| | 27 | 44.9 50 29.8 | 9.0 | 5.5 | | | | | | | | | + 38.86 |
| | κ | | | 5.3 | | | | | | | | | − .13 |
| | | | | 5.4 | | | | | | | + 38.71 | | − 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 28 | 50.15 |
| | | | | | | | | | | | | | − 2.13 |
| | $\alpha_1$ | | | | | | | | | | | 28 | 48.02 |
| | | | 9.0 | 27 57.5 | 28 1.4 | 4.5 | 7.9 | 11.1 | 14.2 | | | 28 | 7.82 |
| | | | | 0.2 | | | | | | | | | + 42.48 |
| | κ | | | 3.3 | | | | | | | | | − .22 |
| | | | | 6.3 | | | | | | | + 42.24 | | − 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 28 | 50.06 |
| | | | | | | | | | | | | | − 2.05 |
| | $\alpha_2$ | | | | | | | | | | | 28 | 48.01 |
| | 30 | 03 50 18 | 9.0 | 29 1.0 | 29 28.7 | 29.1 | 32.2 | 35.4 | 38.7 | | | 29 | 32.22 |
| | 29 | 7.7 50 23.6 | 9.1 | 5.1 | | | | | | | | | + 38.86 |
| | κ | | | 8.7 | | | | | | | | | − .13 |
| | | | | 4.9 | | | | | | | + 38.71 | | − 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 30 | 10.93 |
| | | | | | | | | | | | | | − 2.14 |
| | $\alpha_1$ | | | | | | | | | | | 30 | 8.79 |
| | | | 8.9 | 29 10.7 | 29 22.0 | 25.4 | 28.7 | 31.9 | 35.0 | | | 29 | 28.60 |
| | | | | 13.4 | | | | | | | | | + 42.48 |
| | κ | | | 17.3 | | | | | | | | | − .21 |
| | | | | 12.8 | | | | | | | + 42.25 | | − 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 30 | 10.85 |
| | | | | | | | | | | | | | − 2.06 |
| | $\alpha_2$ | | | | | | | | | | | 30 | 8.79 |
| | 31 | 04 52 46 | 9.0 | 30 3.7 | 30 27.9 | 31.1 | 34.7 | 38.8 | 41.3 | | | 30 | 34.60 |
| | 30 | 7.9 52 51.6 | 8.8 | 6.3 | | | | | | | | | + 38.86 |
| | κ | | | 11.7 | | | | | | | | | − .14 |
| | | | | 7.2 | | | | | | | + 38.70 | | − 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 31 | 13.30 |
| | | | | | | | | | | | | | − 2.26 |
| | $\alpha_1$ | | | | | | | | | | | 31 | 11.04 |
| | | | 9.0 | 30 12.8 | 30 24.1 | 27.8 | 31.1 | 34.2 | 37.7 | | | 30 | 30.98 |
| | | | | 15.7 | | | | | | | | | + 42.48 |
| | κ | | | 18.3 | | | | | | | | | − .24 |
| | | | | 15.6 | | | | | | | + 42.22 | | − 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 31 | 13.20 |
| | | | | | | | | | | | | | − 2.18 |
| | $\alpha_2$ | | | | | | | | | | | 31 | 11.02 |
| | 32 | 27 49 56 | 9.7 | 31 14.1 | 31 48.9 | 52.1 | 55.0 | 58.2 | 1.4 | | | 31 | 55.18 |
| | 31 | 32.9 50 1.1 | 9.4 | 21.5 | | | | | | | | | + 38.86 |
| | κ | | | 24.5 | | | | | | | | | − .13 |
| | | | | 21.7 | | | | | | | + 38.71 | | − 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 32 | 33.89 |
| | | | | | | | | | | | | | − 2.18 |
| | $\alpha_1$ | | | | | | | | | | | 32 | 31.71 |
| | | | 9.2 | 31 21.4 | 31 45.3 | 48.4 | 51.8 | 55.0 | 58.1 | | | 31 | 51.72 |
| | | | | 23.5 | | | | | | | | | + 42.48 |
| | κ | | | 26.7 | | | | | | | | | − .21 |
| | | | | 22.5 | | | | | | | + 42.25 | | − 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 32 | 33.97 |
| | | | | | | | | | | | | | − 2.10 |
| | $\alpha_2$ | | | | | | | | | | | 32 | 31.87 |
| | 33 | 24 52 57 | 8.3 | 32 42.9 | 32 48.7 | 48.4 | 52.0 | 55.3 | 57.0 | | | 32 | 51.98 |
| | 32 | 28.2 53 3.0 | 8.0 | 45.9 | | | | | | | | | + 38.86 |
| | κ | | | 48.4 | | | | | | | | | − .15 |
| | | | | 44.7 | | | | | | | + 38.69 | | − 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 33 | 30.67 |
| | | | | | | | | | | | | | − 2.28 |
| | $\alpha_1$ | | | | | | | | | | | 33 | 28.39 |
| | | | 8.5 | 32 30.0 | 32 41.6 | 45.0 | 48.5 | 51.8 | 55.2 | | | 32 | 48.02 |
| | | | | 33.0 | | | | | | | | | + 42.48 |
| | κ | | | 36.3 | | | | | | | | | − .24 |
| | | | | 32.1 | | | | | | | + 42.22 | | − 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 33 | 30.44 |
| | | | | | | | | | | | | | − 2.20 |
| | $\alpha_2$ | | | | | | | | | | | 33 | 28.44 |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +21.0 s | 3 48.7 | 55.6 | 85 | 52.15 | 50 13 56.20 | | | 5′ | 50 23 58.98 | |
| 62 | 1.32222 | | | | | 24 16.22 | | | | − .12 | +8.31 |
| d | 9.80443 | | | | | −17.24 | | | | − .18 | |
| | 1.23657 m | | | | | | 23 58.98 | | | + 8.30 | |
| ((δ) − D) d′/100 | | | | | | | | | | + .32 | |
| | | | | | | | | | | − 8.30 | |
| +3.29 −19.87 δ₁ | | 28 51.31 | | 23 39.1 | | | | | | 23 58.99 | |
| | +7.5 | 3 55.5 | 35 | 8 | 59.50 | 50 13 48.85 | | | 5 | 24 002 | |
| | 0.87506 | | | | | 24 6.18 | | | | − 2 | +8.51 |
| d | 9.80443 | | | | | − 6.16 | | | | − 20 | |
| | 0.78941 m | | | | | | 24 0.02 | | | + 8.41 | |
| ((δ) − D) d′/100 | | | | | | | | | | + 32 | |
| | | | | | | | | | | − 7.70 | |
| +3.29 −19.87 δ₂ | | 28 51.30 | | 23 41.0 | | | | | | 24 0.83 | |
| | +27.3 | 0 2.7 | 11.5 | 15 | 7.10 | 50 7 41.25 | | | 15 | 50 17 3881 | |
| | 1.43616 | | | | | 18 1.27 | | | | − 20 | +8.30 |
| 62 d | 9.80534 | | | | | −22.46 | | | | − 1 | |
| | 1.35142 m | | | | | | 17 38.81 | | | + 8.20 | |
| ((δ) − D) d′/100 | | | | | | | | | | + 31 | |
| | | | | | | | | | | −8.90 | |
| +3.28 −19.89 δ₁ | | 30 12.07 | | 17 18.3 | | | | | | 17 38.21 | |
| | +14.8 | 0 10.3 | 19.4 | 15 | 1485 | 50 7 33.50 | | | 15 | 38.65 | |
| | 1.17026 | | | | | 17 50.83 | | | | − 6 | +8.54 |
| d | 9.80534 | | | | | −12.18 | | | | − 1 | |
| | 1.08552 m | | | | | | 17 38.65 | | | + 8.30 | |
| ((δ) − D) d′/100 | | | | | | | | | | + 31 | |
| | | | | | | | | | | −7.40 | |
| +3.28 −19.89 δ₂ | | 30 12.07 | | 17 19.9 | | | | | | 17 39.79 | |
| | +27.4 | 3 30.0 | 38.9 | 48 | 34.45 | 52 34 13.90 | | | 45 | 52 44 12.55 | |
| | 1.43775 | | | | | 44 33.92 | | | | − .19 | +10.80 |
| 62 d | 9.78213 | | | | | −21.37 | | | | − 18 | |
| | 1.32980 m | | | | | | 44 12.55 | | | + 10.77 | |
| ((δ) − D) d′/100 | | | | | | | | | | + .40 | |
| | | | | 3 | | | | | | − 8.10 | |
| +3.29 −19.90 δ₁ | | 31 14.33 | | 43 55.4 | | | | | | 44 15.25 | |
| | +15.4 | 3 36.3 | 45.2 | 48 | 40.75 | 52 34 7.60 | | | 45 | 12.92 | |
| | 1.18752 | | | | | 44 24.93 | | | | − 6 | +11.07 |
| d | 9.78213 | | | | | −12.01 | | | | − 18 | |
| | 1.07957 m | | | | | | 44 12.92 | | | + 10.91 | |
| ((δ) − D) d′/100 | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 8.70 | |
| +3.29 −19.90 δ₂ | | 31 14.31 | | 43 55.4 | | | | | | 44 15.29 | |
| | +33.5 | 3 17.4 | 24.9 | 38 | 21.15 | 49 44 27.20 | | | 35 | 49 54 19.44 | |
| | 1.52504 | | | | | 54 47.22 | | | | − .30 | +7.71 |
| 46 d | 9.80882 | | | | | −27.78 | | | | − 17 | |
| | 1.44378 m | | | | | | 54 19.44 | | | + 7.88 | |
| ((δ) − D) d′/100 | | | | | | | | | | + .30 | |
| | | | | | | | | | | − 7.50 | |
| +3.26 −19.91 δ₁ | | 32 34.97 | | 53 59.7 | | | | | | 54 19.65 | |
| | +28.2 | 3 18.9 | 26.4 | 38 | 22.65 | 49 44 25.70 | | | 35 | 1964 | |
| | 1.45025 | | | | | 54 43.03 | | | | − 21 | +7.91 |
| d | 9.80882 | | | | | −23.39 | | | | − 17 | |
| | 1.36899 m | | | | | | 54 19.64 | | | + 7.99 | |
| ((δ) − D) d′/100 | | | | | | | | | | + 30 | |
| | | | | | | | | | | − 8.10 | |
| +3.26 −19.91 δ₂ | | 32 35.13 | | 53 59.5 | | | | | | 54 19.45 | |
| | +6.1 | 1 16.3 | 24.7 | 36 | 20.50 x.10 | 52 46 27.85 | | | 35 | 52 56 43.04 | |
| | 0.78533 | | | | | 56 47.87 | | | | − 1 | +11.31 |
| 58 d | 9.77997 | | | | | −4.73 | | | | − 7 | |
| | 0.67522 m | | | | | | 56 43.04 | | | + 10.99 | |
| ((δ) − D) d′/100 | | | | | | | | | | + 40 | |
| | | | | | | | | | | − 8.00 | |
| +3.28 −19.92 δ₁ | | 33 31.67 | | 56 26.4 | | | | | | 56 46.35 | |
| | +15.3 | 1 6.0 | 16.0 | 36 | 11.00 | 52 46 37.35 | | | 35 | 42.81 | |
| | 1.18469 | | | | | 56 54.68 | | | | − 6 | +11.42 |
| d | 9.77997 | | | | | −11.87 | | | | − 6 | |
| | 1.07466 m | | | | | | 56 42.81 | | | + 11.14 | |
| ((δ) − D) d′/100 | | | | | | | | | | + 40 | |
| | | | | | | | | | | − 8.60 | |
| +3.28 −19.92 δ₂ | | 33 31.72 | | 56 25.7 | | | | | | 56 45.63 | |

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Date$_1$ = May 7, 1874 Observer W. A. R. Recorder J. F. M.

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Date$_2$ = May 11, 1874 Observer Recorder

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Runs

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 34 | 33 53 35 | 9.6 | 33 57.1 | 33 57.5 | 59.8 | 4.3 | 7.6 | 11.2 | | | m s 34 4.28 | |
| K | 33 | 37.5 53 41.1 | 9.3 | 55.0 | | 0.8 | | | | | | + 38.86 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 57.8 | | | | | | | | − .15 | 44 |
| $\alpha_1$ | | | | 54.6 | | | | | | | + 38.68 | − .3 | |
| | | | | | | | | | | | | 34 42.96 | |
| | | | | | | | | | | | | − 2.33 | +3.2 |
| | | | | | | | | | | | | 34 40.63 | −19. |
| | | | 9.2 | 33 36.3 | 33 54.0 | 57.3 | 0.8 | 4.8 | 7.8 | | | 34 0.84 | |
| K | | | | 39.4 | | | | | | | | + 42.48 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 43.2 | | | | | | | | − .24 | |
| $\alpha_2$ | | | | 39.6 | | | | | | | + 42.21 | − .3 | |
| | | | | | | | | | | | | 34 43.05 | |
| | | | | | | | | | | | | − 2.24 | |
| | | | | | | | | | | | | 34 40.81 | |
| | 36 | 65 50 46 | 9.4 | 35 [illegible] | 36 17.6 | 22.9 | 26.1 | 29.4 | 32.6 | | | 36 26.12 | |
| K | 36 | 0.9 50 51.3 | 8.9 | 57.7 | | | | | | | | + 38.86 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 58.8 | | | | | | | | − .13 | 58 |
| $\alpha_1$ | | | | 54.4 | | | | | | | + 38.71 | − .2 | |
| | | | | | | | | | | | | 37 4.83 | |
| | | | | | | | | | | | | − 2.22 | +3.2 |
| | | | | | | | | | | | | 37 2.61 | −19. |
| | | | 8.8 | 35 42.2 | 36 16.1 | 19.3 | 22.5 | 25.7 | 29.1 | | | 36 22.54 | |
| K | | | | 44.6 | | | 01 | | | | | + 42.48 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 49.9 | | | | | | | | − .22 | |
| $\alpha_2$ | | | | 44.6 | | | | | | | + 42.24 | − .2 | |
| | | | | | | | ✓ | | | | | 37 4.78 | |
| | | | | | | | | | | | | − 2.14 | +3.2 |
| | | | | | | | | | | | | 37 2.64 | −19. |
| | 37 | 51 50 40 | 9.6 | 37 9.5 | 37 [illegible] | 16.3 | 19.1 | 22.7 | 25.8 | | | 37 19.42 35 | |
| | 36 | [illegible] 50 [illegible] | 9.1 | 41.8 | | 19.55 | 19.10 | 19.45 | 19.30 | | | + 38.86 | |
| K | | 54.4 41.9 | | 14.9 | | | | | | | | − .13 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 12.1 | | | | | | | + 38.71 | − .2 | |
| | | | | | | | | | | | | 37 58.13 06 | |
| | | | | | | | | | | | | − 2.21 | |
| $\alpha_1$ | | | | | | | | | | | | 37 55.98 93 | +3.2 |
| | | | | | | | | | | | | | −19. |
| | 36 | 66.0 50 45.3 | 9.0 | 36 53.8 | 37 11.4 | 14.5 | 17.9 | 21.1 | 24.3 | | | 37 17.90 | |
| K | | | | 55.7 | | | | | | | | + 42.48 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 57.0 | | | | | | | | − .22 | |
| $\alpha_2$ | | | | 55.3 | | | | | | | + 42.24 | − .2 | |
| | | | | | | | | | | | | 38 00.14 | |
| | | | | | | | | | | | | − 2.13 | +3.2 |
| | | | | | | | | | | | | 37 58.01 | −19. |
| | 38 | 58 50 35 | 9.6 | 38 45.6 | 38 22.1 | 25.3 | 28.5 | 31.8 | 36.1 | | | 38 28.56 | |
| K | 38 | 2.7 50 40.1 | 9.2 | 49.4 | | | | | | | | + 38.86 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 53.0 | | | | | | | | − .13 | |
| $\alpha_1$ | | | | 47.3 | | | | | | | + 38.71 | − .2 | |
| | | | | | | | | | | | | 39 7.27 | |
| | | | | | | | | | | | | − 2.22 | +3.2 |
| | | | | | | | | | | | | 39 5.05 | −19. |
| | | | 9.1 | 38 13.2 | 38 18.4 | 21.9 | 25.1 | 28.3 | 31.3 | | | 38 25.00 | |
| K | | | | 16.6 | | | | | | | | + 42.48 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 20.1 | | | | | | | | − .22 | |
| $\alpha_2$ | | | | 16.4 | | | | | | | + 42.24 | − .2 | |
| | | | | | | | | | | | | 39 7.24 | |
| | | | | | | | | | | | | − 2.14 | +3.2 |
| | | | | | | | | | | | | 39 5.10 | −19. |
| | 40 | 10 54 00 | 9.7 | 39 [illegible] | 39 34.6 | 38.1 | 41.6 | 45.0 | 48.4 | | | 39 41.54 | |
| K | 39 | 15.7 54 6.3 | 8.3 | [illegible] | | | | | | | | + 38.86 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | [illegible] | | | | | | | | − .15 | |
| $\alpha_1$ | | | | 41 29 | | | | | | | + 38.68 | − .3 | |
| | | | | 5.4 | | | | | | | | 40 20.22 | |
| | | | | 9.6 | | | | | | | | − 2.40 | +3.2 |
| | | | | 6.1 | | | | | | | | 40 17.82 | −19. |
| | | | 8.5 | 39 13.1 | 16.5 | 19.8 | | | | | | 39 38.02 | |
| X K | | 41 50 | | 16.5 | 39 31.0 | 34.4 | 38.1 | 41.6 | 45.0 | | | + 42.48 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 19.8 | | | | | | | | − .25 | |
| $\alpha_2$ | | | | 16.5 | | | | | | | + 42.20 | − .3 | |
| | | | | | | | | | | | | 40 20.22 | |
| | | | | | | | | | | | | − 2.31 | |
| | | | | | | | | | | | | 40 17.91 | +3.2 |
| | | | | | | | | | | | | | −19. |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +9.7 | 4′ 11.9 | 19.9 | 59′ | 15.90″ | 53 23 32.45 | | | 55′ | 53 33 45.05 | Errors |
| | 0.98677 | | | | | 33 52.47 | | | | − .2 | +11.83 |
| 44 d | 9.77370 | | | | | −7.42 | | | | − 22 | |
| | 0.87039 | | | | | | 33 45.05 | | | + 11.65 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | 289 | | | | | | + .42 | |
| +3.27 | | | | | | | | | | − 8.00 | |
| −19.93 $\delta_1$ | | 34 43.90 | | 33 29.0 | | | | | | 33 48.88 | |
| | +21.2 | 3 0.1 | 9.0 | 38 51 | 4.55 | 53 24 43.80 | | | 55 | 34 44.92 | 11.95 |
| | 1.32634 | | | | | 35 1.13 | | | | − 12 | +12.05 |
| d | 9.77353 | | | | | −16.21 | | | | − 15 | |
| | 1.20979 | | | | | | 34 44.92 | | | + 11.82 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| +3.27 | | | | | | | | | | − 8.60 | |
| −19.93 $\delta_2$ | | 34 44.08 | | 33 28.3 | | | | | | 34 48.27 | |
| | +28.7 | 2 17.9 | 26.0 | 47 | 21.95 | 50 35 26.40 | | | 45 | 50 45 23.04 | |
| | 1.45788 | | | | | 45 46.42 | | | | − .22 | +8.64 |
| 58 d | 9.80105 | | | | | −23.38 | | | | − .12 | |
| | 1.36885 | | | | | | 45 23.04 | | | + 8.65 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .33 | |
| +3.24 | | | | | | | | | | − 7.20 | |
| −19.95 $\delta_1$ | | 37 5.85 | | 45 4.5 | | | | | | 45 24.48 | |
| | +37.7 | 2 9.6 | 17.0 | 47 | 13.25 | 50 35 35.10 | | | 45 | 21.72 | |
| | 1.57634 | | | | | 45 52.43 | | | | − .39 | +8.62 |
| d | 9.80105 | | | | | −30.71 | | | | − .11 | |
| | 1.48731 | | | | | | 45 21.72 | | | + 8.79 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .33 | |
| +3.24 | | | | | | | | | | − 7.80 | |
| −19.95 $\delta_2$ | | 37 5.88 | | 45 2.6 | | | | | | 45 22.54 | |
| | +7.3 | 1 56.1 | 2.7 | 56 | 56.90 | 50 25 49.45 | | | 55 | 50 36 35.0 | Errors |
| | 0.86332 | | | | | 36 9.47 | | | | − 2 | +8.73 |
| 52 d | 9.80259 | | | | | −5.97 | | | | − 10 | |
| | 0.77583 | | | | | | 36 3.50 | | | + 8.52 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .33 | |
| +3.23 | | | | | | | | | | − 7.10 | |
| −19.96 $\delta_1$ | | 37 59.08 | | 35 45.2 | | | | | | 36 5.13 | |
| | +22.6 | 4 19.1 | 26.2 | 54 | 22.65 | 50 28 25.70 | | | 50 | 38 24.12 | Errors |
| | 1.35411 | | | | | 38 43.03 | | | | − 14 | +8.63 |
| d | 9.80259 | | | | | −18.91 | | | | − 22 | |
| | 1.26662 | | | | | | 38 24.12 | | | + 8.66 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .33 | |
| +3.23 | | | | | | | | | | − 7.70 | |
| −19.96 $\delta_2$ | | 38 1.24 | | 38 5.1 | | | | | | 38 25.05 | |
| | −20.7 | 4 35.9 | 43.1 | 59 | 39.50 | 50 23 8.85 | | | 55 | 50 33 45.80 | |
| | 1.31597 | | | | | 33 28.87 | | | | − 12 | +8.46 |
| 56 d | 9.80290 | | | | | +16.93 | | | | − .23 | |
| | 1.22879 | | | | | | 33 45.80 | | | + 8.49 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .32 | |
| +3.22 | | | | | | | | | | − 7.00 | |
| −19.97 $\delta_1$ | | 39 8.27 | | 33 27.3 | | | | | | 33 47.26 | |
| | +8.4 | 4 6.0 | 15.5 | 59 | 11.75 | 50 23 36.60 | | | 55 | 47.06 | |
| | 0.92428 | | | | | 33 58.93 | | | | − 2 | +8.68 |
| d | 9.80290 | | | | | −6.87 | | | | − 21 | |
| | 0.83710 | | | | | | 33 47.06 | | | + 8.59 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .32 | |
| +3.22 | | | | | | | | | | − 7.60 | |
| −19.97 $\delta_2$ | | 39 8.32 | | 33 28.2 | | | | | | 33 48.14 | |
| | −24.6 | 4 18.0 | 25.8 | 34 | 21.90 | 53 48 26.45 | | | 30 | 53 54 59 5.10 | Reductions wrong |
| | 1.39094 | | | | | 58 46.47 | | | | − .16 | +13.22 +12.19 |
| 52 d | 9.76939 | | | | | +18.63 | | | | − 22 | |
| | 1.29033 | | | | | | 59 5.10 | | | + 13.47 45 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 50 | |
| +3.23 | | | | | | | | | | − 7.80 | |
| −19.98 $\delta_1$ | | 40 21.06 | | 58 49.5 | | | | | | 59 9.49 | |
| | +21.5 | 3 49.5 | 48.2 | 33 | 44.35 | 53 49 4.00 | | | 30 | 50.5 | |
| | 1.33244 | | | | | 59 21.33 | | | | − .11 | +13.58 12.47 |
| d | 9.76939 | | | | | −16.28 | | | | − 47 | |
| | 1.21175 | | | | | | 59 5.05 | | | + 12.90 45 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + | |
| +3.23 | | | | | | | | | | − 8.40 | |
| −19.98 $\delta_2$ | | 40 21.14 | | 58 49.1 | | | | | | 10.23 59 9.12 | |

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Date$_1$ = May 7.1874 Observer M.A.K Recorder J.F.M.

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Date$_2$ = May 11,1874 Observer Recorder

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| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | h m s | ° ′ ″ | | m s | m s | s | s | s | s | | | m s | s |
| | 43 58 | 54 12 | 9.0 | 42 52.4 | 43 2.8 | 24.4 | 28.8 | 31.4 | 34.9 | | | 43 | 27.90 |
| | 43 3.1 | 54 18.0 | 8.8 | 55.2 | | | | | | | | | + 38.86 |
| | | | | 59.1 | | | | | | | | | − .15 |
| | | | | 55.7 | | | | | | | | | − 3 |
| | | | | | | | | | | | + 38.68 | 44 | 6.58 |
| | | | | | | | | | | | | | − 2.43 |
| | | | | | | | | | | | | 44 | 6.44 |
| | | | | | | | | | | | | | 4.15 |
| | | | 9.0 | 42 55.4 | 43 1.5 | 20.8 | 24.1 | 27.8 | 31.4 | | | 43 | 24.32 |
| | | | | 59.3 | | | | | | | | | + 42.48 |
| | | | | 54.1 | | | | | | | | | − .25 |
| | | | | 58.9 | | | | | | | | | − 3 |
| | | | | | | | | | | | + 42.20 | 44 | 6.52 |
| | | | | | | | | | | | | | − 2.35 |
| | | | | | | | | | | | | 44 | 4.17 |
| | 45 31 | 54 24 | 9.6 | 44 51.7 | 44 57.3 | 55.0 | 58.6 | 2.3 | 5.7 | | | 44 | 58.58 |
| | 44 36.9 | 54 29.2 | 9.0 | | | | | | | | | | + 38.86 |
| | | | | | | | | | | | | | − .15 |
| | | | | | | | | | | | + 38.68 | | − 3 |
| | | | | | | | | | | | | 46 | 37.90 |
| | | | | | | | | | | | | | − 2.45 |
| | | | | | | | | | | | | 45 | 34.81 |
| | | | 9.0 | 44 16.9 | 44 47.1 | 57.6 | 55.2 | 58.6 | 2.1 | | | 44 | 55.04 |
| | | | | 20.2 | | | | | | | | | + 42.48 |
| | | | | 22.8 | | | | | | | | | − .25 |
| | | | | 20.0 | | | | | | | | | − 3 |
| | | | | | | | | | | | + 42.20 | 45 | 37.24 |
| | | | | | | | | | | | | | − 2.37 |
| | | | | | | | | | | | | 45 | 34.87 |
| | 47 26 | 49 56 | 9.4 | 46 18.7 | 46 41.1 | 44.3 | 47.5 | (50.6) | 53.7 | | | 46 | 47.44 |
| | 46 22.8 | 50 1.6 | 9.0 | 21.9 | | | | | | | | | + 38.86 |
| | | | | 25.9 | | | | | | | | | − .13 |
| | | | | 22.1 | | | | | | | + 38.71 | | − 2 |
| | | | | | | | | | | | | 47 | 26.15 |
| | | | | | | | | | | | | | − 2.28 |
| | | | | | | | | | | | | 47 | 23.87 |
| | | | 9.1 | 46 22.6 | 46 47.5 | 40.7 | 44.0 | 47.1 | 52.4 | | | 46 | 43.94 |
| | | | | 27.7 | | | | | | | | | + 42.48 |
| | | | | 26.4 | | | | | | | | | − .21 |
| | | | | 26.5 | | | | | | | | | − 2 |
| | | | | | | | | | | | + 42.25 | 47 | 26.19 |
| | | | | | | | | | | | | | − 2.21 |
| | | | | | | | | | | | | 47 | 23.98 |
| | 48 10 | 52 40 | 8.8 | 49 26.9 | 47 45.5 | 47.6 | 51.0 | 54.3 | 57.8 | | | 47 | 50.70 |
| | 47 26.5 | 52 45.4 | 8.3 | 25.0 | | | | | | | | | + 38.86 |
| | | | | 33.0 | | | | | | | | | − .14 |
| | | | | 28.8 | | | | | | | + 38.70 | | − 2 |
| | | | | | | | | | | | | 48 | 29.60 |
| | | | | | | | | | | | | | − 2.38 |
| | | | | | | | | | | | | 48 | 27.22 |
| | | | 8.4 | 49 23.5 | 47 46.5 | 43.9 | 47.3 | 50.6 | 54.0 | | | 47 | 47.26 |
| | | | | 27.1 | | | | | | | | | + 42.48 |
| | | | | 26.8 | | | | | | | | | − .23 |
| | | | | 27.2 | | | | | | | + 42.23 | | − 2 |
| | | | | | | | | | | | | 48 | 29.49 |
| | | | | | | | | | | | | | − 2.30 |
| | | | | | | | | | | | | 48 | 27.19 |
| | 50 24 | 54 02 | 9.5 | 49 35.9 | 47 52.1 | 55.5 | 58.7 | 2.5 | 6.0 | | | 49 | 58.96 |
| | 49 31.5 | 54 7.4 | 9.2 | 38.3 | | | | | | | | | + 38.86 |
| | | | | 37.2 | | | | | | | | | − .15 |
| | | | | | | | | | | | + 38.68 | | − 3 |
| | | | | | | | | | | | | 50 | 37.64 |
| | | | | | | | | | | | | | − 2.47 |
| | | | | | | | | | | | | 50 | 35.17 |
| | | | 9.2 | 49 22.3 | 49 48.2 | 51.9 | 55.4 | 58.9 | 2.2 | | | 49 | 55.32 |
| | | | | 25.0 | | | | | | | | | + 42.48 |
| | | | | 28.0 | | | | | | | | | − .25 |
| | | | | 25.1 | | | | | | | + 42.20 | | − 3 |
| | | | | | | | | | | | | 50 | 37.52 |
| | | | | | | | | | | | | | − 2.39 |
| | | | | | | | | | | | | 50 | 35.13 |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 58 d | +32.2 | 2′ 11.0 | 18.7 | 22′ | 14.85 | 54 0 33.50 | | | 20′ | 54 10 29.25 | |
| | 1.50786 | | | | | 10 53.52 | | | | − 27 | +12.39 |
| | 9.76730 | | | | | −24.27 | | | | − 11 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.38508 m | | | | | | 10 29.25 | | | + 12.31 | |
| | | | | | | | | | | + .46 | |
| +3.20 $\delta_1$ | | 44 7.35 | | 10 14.1 | | | | | | − 7.50 | |
| −20.01 | | | | | | | | | | 10 30.14 | |
| | +25.4 | 2 13.0 | 21.0 | 22 | 17.00 | 50 0 31.35 | | | 20 | 29.53 | |
| d | 1.40483 | | | | | 10 48.68 | | | | − .16 | +12.62 |
| | 9.76730 | | | | | −19.15 | | | | − 11 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.28205 m | | | | | | 10 29.53 | | | + 12.47 | |
| | | | | | | | | | | + .42 | |
| +3.20 $\delta_2$ | | 44 7.37 | | 10 13.9 | | | | | | − 8.20 | |
| −20.01 | | | | | | | | | | 10 33.95 | |
| 54 d | +6.9 | 4 39.7 | 46.0 | 9 | 42.85 | 54 13 5.50 | | | 5 | 54 23 20.35 | |
| | 0.83885 | | | | | 23 25.52 | | | | − 2 | +12.76 |
| | 9.76579 | | | | | −5.17 | | | | − 23 | |
| ((δ) − D) $\frac{d'}{100}$ | 0.71396 m | | | | | | 23 20.35 | | | + 12.54 | |
| | | | | | | | | | | + .47 | |
| +3.19 $\delta_1$ | | 45 38.00 | | 23 5.5 | | | | | | − 7.60 | |
| −20.02 | | | | | | | | | | 23 25.51 | |
| | +35.0 | 4 15.6 | 22.5 | 9 | 19.00 | 54 13 29.35 | | | 5 | 20.44 | |
| d | 1.54407 | | | | | 23 46.68 | | | | − 32 | +12.61 |
| | 9.76501 | | | | | −26.24 | | | | − .21 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.41900 m | | | | | | 23 20.44 | | | + 12.70 | |
| | | | | | | | | | | + .44 | |
| +3.19 $\delta_2$ | | 45 38.06 | | 23 4.8 | | | | | | − 8.20 | |
| −20.02 | | | | | | | | | | 23 24.86 | |
| 50 d | +25.2 | 2 56.9 | 3.1 | 37 | 4.00 | 49 44 48.35 | | | 35 | 49 54 47.48 | |
| | 1.40140 | | | | | 55 8.37 | | | | − .17 | +7.92 |
| | 9.80867 | | | | | 5 −20.89 | | | | − 10 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.31999 m | | | | | | 55 47.48 | | | + 7.89 | |
| | | | | | | | | | | + .20 | |
| +3.16 $\delta_1$ | | 47 27.03 | | 54 28.9 | | | | | | − 6.50 | |
| −20.02 | | | | | | | | | | 55 48.90 | |
| | +17.4 | 2 0.7 | 6.8 | 37 | 3.75 | 39 45 44.60 | | | 35 | 47.51 | |
| d | 1.24055 | | | | | 56 1.93 | | | | − 8 | +8.11 |
| | 9.80867 | | | | | −14.42 | | | | − 10 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.15914 m | | | | | | 55 47.51 | | | + 7.99 | |
| | | | | | | | | | | + .30 | |
| +3.16 $\delta_2$ | | 47 27.14 | | 54 28.5 | | | | | | − 7.10 | |
| −20.02 | | | | | | | | | | 55 48.52 | |
| | +20.9 | 3 25.9 | 33.6 | 53 | 29.75 | 52 29 18.60 | | | 50 | 52 39 22.30 | |
| 64 d | 1.32015 | | | | | 39 38.62 | | | | − .12 | +10.79 |
| | 9.78280 | | | | | −16.32 | | | | − 17 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.21287 m | | | | | | 39 22.30 | | | +10.68 | |
| | | | | | | | | | | + .40 | |
| +3.16 $\delta_1$ | | 48 30.38 | | 39 6.3 | | | | | | − 6.80 | |
| −20.03 | | | | | | | | | | 39 26.29 | |
| | +20.1 | 3 23.1 | 31.5 | ~~23~~ 53 | 27.30 | 52 59 21.05 | | | 20 (50) | 22.86 | Ex Stroke |
| d | 1.30320 | | | | | 53 9 38.38 | | | | − .10 | +10.96 |
| | 9.77778 | | | | | −15.52 | | | | − 17 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.19090 m | | | | | | 22.86 | | | + 10.83 | |
| | | | | | | | | | | + .40 | |
| +3.16 $\delta_2$ | | 48 30.35 | | 39 6.3 | | | | | | − 7.50 | |
| −20.03 | | | | | | | | | | 39 24.32 | |
| | +21.8 | 1 14.9 | 23.2 | 31 | 19.05 | 53 51 29.30 | | | 30 | 54 1 32.83 | |
| 64 d | 1.33846 | | | | | 54 1 49.32 | | | | − .13 | +12.43 |
| | 9.76887 | | | | | −16.49 | | | | − 6 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.21725 m | | | | | | 1 32.83 | | | + 12.17 | |
| | | | | | | | | | | + .45 | |
| +3.15 $\delta_1$ | | 50 38.32 | | 1 18.2 | | | | | | − 7.00 | |
| −20.04 | | | | | | | | | | 1 38.26 | |
| | +30.2 | 1 7.4 | 16.0 | 31 | 11.70 | 53 51 36.65 | | | 30 | 1 31.13 | |
| d | 1.48001 | | | | | 54 1 53.98 | | | | − .23 | +12.43 |
| | 9.76887 | | | | | −22.85 | | | | − 6 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.35880 m | | | | | | 1 31.13 | | | + 12.32 | |
| | | | | | | | | | | + .40 | |
| +3.15 $\delta_2$ | | 50 38.28 | | 1 15.8 | | | | | | − 7.70 | |
| −20.04 | | | | | | | | | | 1 35.86 | |

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Date$_1$ = May 7. 1874 Observer W. A. R Recorder J. F. M

297

Date$_2$ = May 11. 1874 Observer Recorder

46

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | h m s | ° ′ | | m s | m s | s | s | s | s | | | m | s |
| | 53 15 | 52 36 | 9.6 | | 52 — | — | — | — | (54.25) | | | | |
| | 52 21.7 | 52 41.4 | 9.3 | | | | | | | | | | |
| κ | | | | | | | | | | | | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $\alpha_1$ | | | | | | | | | | | | | |
| | | | 9.2 | 52 10.1 | 52 35.6 | 39.0 | 42.2 | 45.6 | 49.0 | | | 52 | 42.26 |
| | | | | 14.0 | | | | | | | | + | 42.48 |
| κ | | | | 17.2 | | | | | | | | — | .23 |
| | | | | 13.8 | | | | | | | | — | .2 |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | + 42.23 | 53 | 24.49 |
| | | | | | | | | | | | | | −2.34 |
| $\alpha_2$ | | | | | | | | | | | | 53 | 22.15 |
| | 55 45 | 52 03 | 8.7 | 54 45.0 | 55 6.6 | 10.1 | 13.5 | 16.7 | 20.0 | | | 55 | 13.38 |
| | 54 52.1 | 52 8.9 | 8.4 | 48.5 | | | | | | | | + | 38.86 |
| κ | | | | 51.3 | | | | | | | | — | .14 |
| | | | | 48.3 | | | | | | | | — | .2 |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | + 38.70 | 55 | 52.08 |
| | | | | | | | | | | | | | −2.39 |
| $\alpha_1$ | | | | | | | | | | | | 55 | 49.69 |
| | | | 8.5 | 54 38.6 | 55 3.0 | 6.4 | 9.8 | 13.4 | 16.7 | | | 55 | 9.86 |
| | | | | 41.5 | | | | | | | | + | 42.48 |
| κ | | | | 45.0 | | | | | | | | — | .23 |
| | | | | 41.7 | | | | | | | | — | .2 |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | + 42.23 | 55 | 52.09 |
| | | | | | | | | | | | | | −2.32 |
| $\alpha_2$ | | | | | | | | | | | | 55 | 49.77 |
| κ | | | | | | | | | | | | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $\alpha_1$ | | | | | | | | | | | | | |
| | | 11 | | | | | | | | | | | |
| 11 May 7 | 12 24 | 50 ~~46~~ | 8.8 | 11 44.7 | 11 50.2 | 53.5 | 56.7 | 0.0 | 3.1 | | | 11 | 56.70 |
| | 11 25.6 | 50 ~~44~~ | 8.6 | 46.4 | | | | | | | | + | 38.86 |
| κ | | 46.5 | | 48.4 | | | | | | | | — | .13 |
| | | | | 50.9 | | | | | | | | — | .2 |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | 47.5 | | | | | | | + 38.71 | 12 | 35.41 |
| | | | | | | | | | | | | | −2.01 |
| $\alpha_2$ | | | | | | | | | | | | 12 | 33.40 |
| 11 May 11 | 41 50 | 53 56 | 9.6 | 40 50.3 | 41 ~~43~~ | 12.8 | 15.4 | ~~18.5~~ | 23.1 | | | 41 | ~~58.18~~ 16.10 |
| | 40 54.1 | 54 1.6 | 9.5 | 53.1 | 16.3 | 16.3 | 15.7 | ~~16.5~~ | 16.1 | | | + | 42.48 |
| κ | | | | 53.6 | | | | | | | | — | .25 |
| | | | | 52.0 | | | | | | | | — | .3 |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | + 42.20 | 41 | 58.08 30 |
| | | | | | | | | | | | | | −2.31 |
| $\alpha_1$ | | | | | | | | | | | | 41 | 55.77 99 |
| κ | | | | | | | | | | | | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $\alpha_2$ | | | | | | | | | | | | | |
| κ | | | | | | | | | | | | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $\alpha_1$ | | | | | | | | | | | | | |
| κ | | | | | | | | | | | | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $\alpha_2$ | | | | | | | | | | | | | |

Single Observations

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 2′ ~~38.2~~ | ~~47.2~~″ | 57′ | ~~42.40~~ | 52 25 5.65 | | | 55′ | | |
| d | | | | | | 35 25.67 | | | | | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | +28.5 | 2 41.0 | 49.9 | 57 | 45.45 | 52 25 2.90 | | | 55 | 52 8 45.93 | |
| | 1.45484 | | | | | 35 20.23 | | | | − 21 | +10.82 |
| d | 9.78362 | | | | | − 22.30 | | | | − 14 | |
| | 1.34838 m | | | | | | 34 57.93 | | | + 10.77 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| | | | | | | | | | | − 7.10 | |
| +3.12 | | | | | | | | | | | |
| −20.05 $\delta_2$ | | 53 25.27 | | 34 41.6 | | | | | | 35 1.65 | |
| | +25.1 | 0 1.0 | 10.2 | 30 | 5.60 | 57 52 42.705 | | | 30 | 52 2 42.849 | |
| | 1.39967 | | | | | 52 3 2.727 | | | | − 17 | +10.29 |
| 52 d | 9.78886 | | | | | − 19.88 | | | | − 0 | |
| | 1.29845 m | | | | | | 2 42.84 | | | + 10.06 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| | | | | | | | | | | − 6.20 | |
| +3.10 | | | | | | | | | | 6.70 | |
| −20.05 $\delta_1$ | | 55 52.79 | | 2 26.9 | | | | | | 2 47.33 | 46.98 |
| | +28.2 | 4 57.3 | 7.1 | 30 | 2.20 | 51 52 46.15 | | | 25 | 41.14 | |
| | 1.45025 | | | | | 52 3 3.48 | | | | − 21 | +10.38 |
| d | 9.78886 | | | | | − 22.34 | | | | − 0 | |
| | 1.34903 m | | | | | | 2 41.14 | | | + 10.19 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| | | | | | | | | | | − 6.80 | |
| +3.10 $\delta_2$ | | | | | | | | | | | |
| −20.05 | | 55 52.87 | | 2 24.7 | | | | | | 2 44.72 | |
| d | | | | | | | | | | | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | +9.2 | 1 15.0 | 24.1 | 21 | 19.55 | 50 1 28.80 | | | 20 | 50 11 41.24 | |
| | 0.96379 | | | | | 11 48.82 | | | | − 2 | +8.31 |
| d | 9.80625 | | | | | − 7.58 | | | | − 7 | |
| | 0.87996 m | | | | | | 11 41.24 | | | + 8.89 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | + 31 | |
| | | | | | | | | | | − 8.70 | |
| +3.40 | | | | | | | | | | | |
| −19.63 $\delta_2$ | | 12 36.80 | | 11 21.2 | | | | | | 11 40.85 | |
| 10 +24.1 | ~~+23.9~~ | 2 31.8 | 39.9 | 37 | 35.85 | 53 45 12.50 | | | 35 | 53 55 ~~14.48~~25 | 11.56 |
| | ~~1.37840~~ | 1.38202 | | | | 55 32.52 | 29.83 | | | − 15 | +12.28 |
| d | 9.76991 | | | | | − 18.12 | | | | − 13 | |
| | ~~1.25823 m~~ | | | | | 27 | 55 14.40 | | | + 12.16 | |
| ((δ) — D) $\frac{d'}{100}$ | 1.26185 m | | | | | | | | | + 40 | |
| | | | | | | | | | | − 8.20 | |
| +3.22 | | | | | | | | | | | |
| −19.99 $\delta_1$ | | 41 59.21 | | 54 55.6 | | | | | | 55 ~~16.48~~33 | 1.564 |
| d | | | | | | | | | | | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |

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1874phae.proj.1588R

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Date$_1$ = May 12, 1874 Observer W. A. R
$n$ = −.06 $c$ = −.04 Recorder G. F. H.

299

Date$_2$ = May 14, 1874 Observer
$n$ = −.25 $c$ = −.05 Recorder

48

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | ° ′ | | m s | m s | s | s | s | s | | | m | s |
| | 36 | 54 53 07 | 7.5 | 36 20.7 | 36 13.3 | 16.8 | 20.3 | 23.4 | 27.2 | | | 36 | 20.26 |
| | 35 | 58.4 53 12.8 | 7.0 | | | | | | | | | | +43.62 |
| | | | | | | | | | | | | | 8 |
| | | | | | | | | | | | | | 7 |
| | | | | | | | | | | | + 43.44 | | 3 |
| | | | | | | | | | | | | 37 | 3.70 |
| | | | | | | | | | | | | | −2.22 |
| | | | | | | | | | | | | 37 | 1.48 |
| | | | 7.8 | 36 29.4 | 36 — | — | 18.6 | 22.1 | 25.5 | | | 36 | 17.64 |
| | | | | | | | | | | | | | +43.43 |
| | | | | | | | | | | | | | .33 |
| | | | | | | | | | | | | | 8 |
| | | | | | | | | | | | + 44.99 | | 3 |
| | | | | | | | | | | | | 37 | 3.63 |
| | | | | | | | | | | | | | −2.18 |
| | | | | | | | | | | | | 37 | 1.45 |
| | 37 | 45 54 23 | 9.2 | 36 57.5 | 37 5.9 | 9.4 | 12.9 | 16.5 | 19.9 | | | 37 | 12.92 |
| | 36 | 49.6 54 28.4 | 8.0 | 6.5 | | | | | | | | | +43.62 |
| | | | | 3.1 | | | | | | | | | 8 |
| | | | | 6.4 | | | | | | | | | 7 |
| | | | | | | | | | | | + 43.44 | | 3 |
| | | | | | | | | | | | | 37 | 56.86 |
| | | | | | | | | | | | | | −2.29 |
| | | | | | | | | | | | | 37 | 54.57 |
| | | | 9.0 | 37 34 | 37 44.4 | 7.7 | 11.3 | 14.7 | 18.3 | | | 37 | 11.36 |
| | | | | 6.5 | | | | | | | | | +45.43 |
| | | | | 9.7 | | | | | | | | | .35 |
| | | | | 6.5 | | | | | | | | | 9 |
| | | | | | | | | | | | + 44.96 | | 3 |
| | | | | | | | | | | | | 37 | 56.32 |
| | | | | | | | | | | | | | −2.25 |
| | | | | | | | | | | | | 37 | 54.07 |
| | 39 | 25 53 05 | 9.0 | 38 20.9 | 38 42.8 | 46.2 | 49.8 | 53.1 | 56.6 | | | 38 | 49.70 |
| | 38 | 29.8 53 10.9 | 8.8 | 22.4 | | | | | | | | | +43.62 |
| | | | | 27.2 | | | | | | | | | 8 |
| | | | | 23.6 | | | | | | | | | 7 |
| | | | | | | | | | | | + 43.44 | | 3 |
| | | | | | | | | | | | | 39 | 33.14 |
| | | | | | | | | | | | | | −2.24 |
| | | | | | | | | | | | | 39 | 30.90 |
| | | | 8.8 | 38 29.7 | 38 41.1 | 44.6 | 48.0 | 51.4 | 54.9 | | | 38 | 48.00 |
| | | | | 33.0 | | | | | | | | | +45.43 |
| | | | | 35.6 | | | | | | | | | .33 |
| | | | | 32.4 | | | | | | | | | 8 |
| | | | | | | | | | | | + 44.99 | | 3 |
| | | | | | | | | | | | | 39 | 32.99 |
| | | | | | | | | | | | | | −2.20 |
| | | | | | | | | | | | | 39 | 30.79 |
| | 41 | 04 53 44 | 8.5 | 39 57.4 | 40 22.2 | 25.7 | 29.3 | 32.8 | 36.2 | | | 40 | 29.24 |
| | 40 | 9.6 53 49.2 | 7.8 | 1.0 | | | | | | | | | +43.62 |
| | | | | 4.6 | | | | | | | | | 8 |
| | | | | 61.1 | | | | | | | | | 7 |
| | | | | | | | | | | | + 43.44 | | 3 |
| 41 | 57 | | | | | | | | | | | 41 | 12.68 |
| | | | | | | | | | | | | | −2.28 |
| | | | | | | | | | | | | 41 | 10.40 |
| X | | | 8.7 | 39 55.6 | 40 20.7 | 24.3 | 27.7 | 31.2 | 34.6 | | | 40 | 27.70 |
| | | | | 59.8 | | | | | | | | | +45.43 |
| | | | | 3.5 | | | | | | | | | .34 |
| | | | | 57.7 | | | | | | | | | 8 |
| | | | | | | | | | | | + 44.98 | | 3 |
| | | | | | | | | | | | | 41 | 12.68 |
| | | | | | | | | | | | | | −2.24 |
| | | | | | | | | | | | | 41 | 10.44 |
| | 43 | 14 54 32 | 8.5 | 42 8.2 | 42 34.6 | 38.2 | 41.7 | 45.4 | 48.9 | | | 42 | 41.76 |
| | 42 | 19.0 54 37.2 | 7.9 | 11.7 | | | | | | | | | +43.62 |
| | | | | 14.8 | | | | | | | | | 8 |
| | | | | 11.6 | | | | | | | | | 7 |
| | | | | | | | | | | | + 43.44 | | 3 |
| | | | | | | | | | | | | 43 | 25.20 |
| | | | | | | | | | | | | | −2.34 |
| | | | | | | | | | | | | 43 | 22.86 |
| | | | 8.4 | 42 9.1 | 42 33.1 | 36.6 | 40.1 | 43.7 | 47.3 | | | 42 | 40.16 |
| | | | | 11.9 | | | | | | | | | +45.43 |
| | | | | 15.0 | | | | | | | | | .35 |
| | | | | 12.0 | | | | | | | | | 9 |
| | | | | | | | | | | | + 44.96 | | 3 |
| | | | | | | | | | | | | 43 | 25.12 |
| | | | | | | | | | | | | | −2.30 |
| | | | | | | | | | | | | 43 | 22.82 |

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Runs $R_{ey}$ = May 12 +10 17.97 −.05 | May 14. 22.96 −.05

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | −0.4 | 2 26.8 | 35.1 | 27 | 30.95 | 52 55 17.40 | | | 25 | 53 5 35.68 | |
| 62 d | 9.60206 | | | | | 53 5 35.37 | | | | − 00 | +11.40 |
| | 9.77862 | | | | | +0.31 | | | | − .12 | |
| ((δ) − D) $\frac{d'}{100}$ | 9.49060 | | | | | | 5 35.68 | | | +11.12 | |
| | | | | | | | | | | + .40 | |
| +3.25 $\delta_1$ | | | | | | | | | | − 8.60 | |
| −19.95 | | 37 4.73 | | 5 18.5 | | | | | | 5 38.48 | |
| | −+10.8 | 2 35.3 | 54.0 | 27 | 44.65 | 52 55 3.70 | | | 25 | 35.01 | |
| d | 1.03342 | | | | | 53 5 26.66 | | | | − 5 | +10.99 |
| | 9.77862 | | | | | +8.35 | | | | − .14 | |
| ((δ) − D) $\frac{d'}{100}$ | 0.92196 | | | | | | 5 35.01 | | | + 10.76 | |
| +3.25 | | | | | | | | | | + .40 | |
| −19.95 $\delta_2$ | | 37 4.70 | | 5 17.1 | | | | | | − 8.90 | |
| | | | | | | | | | | 5 37.10 | |
| | +12.5 | 1 10.2 | 16.2 | 11 | 14.20 | 54 11 34.15 | | | 10 | 54 21 42.74 | |
| 56 d | 1.09691 | | | | | 21 52.12 | | | | − 4 | +12.83 |
| | 9.76537 | | | | | −9.38 | | | | − 6 | |
| ((δ) − D) $\frac{d'}{100}$ | 0.97220 | | | | | | 21 42.74 | | | + 12.49 | |
| | | | | | | | | | | + .44 | |
| +3.25 $\delta_1$ | | | | | | | | | | − 8.80 | |
| −19.96 | | 37 57.32 | | 21 26.8 | | | | | | 21 46.77 | |
| | +4.9 | 1 15.3 | 34.6 | 11 | 24.95 | 54 11 23.40 | | | 10 | 42.68 | |
| d | 0.69020 | | | | | 21 46.36 | | | | − 1 | +12.43 |
| | 9.76537 | | | | | − 3.68 | | | | − 7 | |
| ((δ) − D) $\frac{d'}{100}$ | 0.56549 | | | | | | 21 42.68 | | | + 12.07 | |
| | | | | | | | | | | + .44 | |
| +3.25 $\delta_2$ | | | | | | | | | | − 9.10 | |
| −19.96 | | 37 57.32 | | 21 26.0 | | | | | | 21 46.01 | |
| | +26.1 | 4 49.7 | 57.7 | 29 | 53.70 | 52 52 54.65 | | | 25 | 53 2 52.41 | |
| 70 d | 1.41664 | | | | | 53 3 12.62 | | | | − 18 | +11.05 |
| | 9.77896 | | | | | −20.21 | | | | − 24 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.30552 | | | | | | 2 52.41 | | | + 11.07 | |
| | | | | | | | | | | + .40 | |
| +3.23 $\delta_1$ | | | | | | | | | | − 8.50 | |
| −19.98 | | 39 34.13 | | 2 35.0 | | | | | | 2 54.96 | |
| | +15.2 | 4 57.0 | 17.3 | 30 | 7.15 | 52 52 41.20 | | | 25 | 52.39 | |
| 76 d | 1.18184 | | | | | 53 3 4.16 | | | | − 6 | +11.03 |
| | 9.77896 | | | | | −11.77 | | | | − 1 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.07072 | | | | | | 2 52.39 | | | + 10.70 | |
| | | | | | | | | | | + .40 | |
| +3.23 $\delta_2$ | | | | | | | | | | − 8.70 | |
| −19.98 | | 39 34.02 | | 2 34.7 | | | | | | 2 54.72 | |
| | +28.1 | 4 49.9 | 56.7 | 49 | 53.30 | 53 32 53.05 | | | 45 | 53 42 51.60 | |
| 54 d | 1.44871 | | | | | 43 13.02 | | | | − .20 | +11.75 |
| | 9.77216 | | | | | −21.42 | | | | − 24 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.33079 | | | | | | 42 51.60 | | | + 11.79 | |
| | | | | | | | | | | + .40 | |
| +3.22 $\delta_1$ | | | | | | | | | | − 8.40 | |
| −19.99 | | 41 13.62 | | 42 35.0 | | | | | | 42 54.95 | |
| | +28.1 | 4 49.5 | 9.1 | 49 | 59.30 | 53 32 49.05 | | | 45 | 50.59 | |
| d | 1.44871 | | | | | 43 12.01 | | | | − .20 | +11.34 |
| | 9.77216 | | | | | −21.42 | | | | − 25 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.33079 | | | | | | 42 50.59 | | | + 11.39 | |
| | | | | | | | | | | + .40 | |
| +3.22 $\delta_2$ | | | | | | | | | | − 8.70 | |
| −19.99 | | 41 13.66 | | 42 33.2 | | | | | | 42 53.23 | |
| | +30.2 | 1 3.3 | 13.6 | X 2 | 8.45 | 54 21 39.90 | | | 0 | 54 31 35.30 | |
| 60 d | 1.48001 | | | | | 31 57.87 | | | | − .23 | +12.82 |
| | 9.76360 | | | | | −22.57 | | | | − 6 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.35353 | | | | | | 31 35.30 | | | + 12.66 | |
| | | | | | | | | | | + .45 | |
| +3.21 $\delta_1$ | | | | 30 | | | | | | − 8.50 | |
| −20.00 | | 43 26.07 | | 31 19.6 | | | | | | 31 39.62 | |
| | +28.2 | 1 6.2 | 23.9 | X 2 | 15.05 | 54 21 33.30 | | | 0 | 34.69 | |
| d | 1.45025 | | | | | 31 56.26 | | | | − .20 | +12.44 |
| | 9.76360 | | | | | −21.57 | | | | − 6 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.33377 | | | | | | 31 34.69 | | | + 12.25 | |
| | | | | | | | | | | + .45 | |
| +3.21 $\delta_2$ | | | | 30 | | | | | | − 8.80 | |
| −20.00 | | 43 26.03 | | 31 18.38 | | | | | | 31 38.33 | |

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1874phae.proj.15888

295 299 50

Date$_1$ = May 12, 1874 Observer W. A. H. Recorder G. F. M.

Date$_2$ = May 14, 1874 Observer Recorder

Ru

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | m s | m s | s | s | s | s | | | m | s |
| | 45 | 39 54 30 | 9.0 | 44 25.9 | 44 36.2 | 39.8 | 3.4 | 6.9 | 16.6 | | | 45 | 3.38 |
| | 44 | 46.5 54 35.3 | 8.7 | 28.8 | | | | | | | | | + 43.62 |
| | κ | | | 31.6 | | | | | | | | | − 8 |
| | | | | 25.7 | | | | | | | | | − 7 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 43.44 | | − 3 |
| | | | | | | | | | | | | 45 | 46.82 |
| | $a_1$ | | | | | | | | | | | | − 2.36 |
| | | | | | | | | | | | | 45 | 44.46 |
| | | | 8.6 | 44 20.4 | 44 54.8 | 58.2 | 1.9 | 5.3 | 9.0 | | | 45 | 1.84 |
| | | | | 23.8 | | | | | | | | | + 45.43 |
| | κ | | | 26.9 | | | | | | | | | − 35 |
| | | | | 22.5 | | | | | | | | | − 8 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 44.96 | | − 3 |
| | | | | | | | | | | | | 45 | 46.81 |
| | $a_2$ | | | | | | | | | | | | − 2.32 |
| | | | | | | | | | | | | 45 | 44.49 |
| | 46 | 16 54 21 | 9.2 | 45 26.1 | 45 35.1 | 38.5 | 42.1 | 45.6 | 49.2 | | | 45 | 42.10 |
| | 45 | 22.0 54 26.8 | 9.0 | 28.3 | | | | | | | | | + 43.62 |
| | κ | | | 31.8 | | | | | | | | | − 8 |
| | | | | 25.9 | | | | | | | | | − 7 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 43.44 | | − 3 |
| | | | | | | | | | | | | 46 | 25.54 |
| | $a_1$ | | | | | | | | | | | | − 2.35 |
| | | | | | | | | | | | | 46 | 23.19 |
| | | | 9.0 | 45 22.0 | 45 33.4 | 37.0 | 40.5 | 44.0 | 47.6 | | | 45 | 40.50 |
| | | | | 24.2 | | | | | | | | | + 45.42 |
| | κ | | | 27.4 | | | | | | | | | − .35 |
| | | | | 24.5 | | | | | | | | | − 9 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 44.95 | | − 3 |
| | | | | | | | | | | | | 46 | 25.45 |
| | $a_2$ | | | | | | | | | | | | − 2.31 |
| | | | | | | | | | | | | 46 | 23.14 |
| | 47 | 06 54 24 | 2.0 | 46 14.5 | 46 33.4 | 27.0 | 30.7 | 34.1 | 37.7 | | | 46 | 30.58 |
| | 46 | 12.4 54 29.6 | 2.5 | 17.1 | | | | | | | | | + 43.62 |
| | κ | | | 20.6 | | | | | | | | | − 8 |
| | | | | 17.5 | | | | | | | | | − 7 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 43.44 | | − 3 |
| | | | | | | | | | | | | 47 | 14.02 |
| | $a_1$ | | | | | | | | | | | | − 2.37 |
| | | | | | | | | | | | | 47 | 11.65 |
| | | | 2.9 | 46 13.9 | 46 22.1 | 25.5 | 29.2 | 32.6 | 36.2 | | | 46 | 29.12 |
| X | | 48 8 | | 17.0 | | | | | | | | | + 45.42 |
| | κ | | | 20.2 | | | | | | | | | − .35 |
| | | | | 17.0 | | | | | | | | | − 9 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 44.95 | | − 3 |
| | | | | | | | | | | | | 47 | 14.07 |
| | $a_2$ | | | | | | | | | | | | − 2.32 |
| + | | | | | | | | | | | | 47 | 11.75 |
| | 48 | 51 53 54 | 9.6 | 47 41.9 | 48 9.7 | 13.2 | 16.6 | 20.2 | 23.6 | | | 48 | 16.66 |
| | 47 | 57.1 53 59.5 | 9.5 | 44.9 | | | | | | | | | + 43.62 |
| | κ | | | 43.8 | | | | | | | | | − 8 |
| | | | | 44.5 | | | | | | | | | − 7 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 43.44 | | − 3 |
| | | | | | | | | | | | | 49 | 00.10 |
| | $a_1$ | | | | | | | | | | | 48 | − 2.35 |
| | | | | | | | | | | | | 48 | 57.75 |
| | | | 9.5 | 48 43.3 | 47 | | | | | | | 48 | 15.00 |
| | | | | 47 20.4 | | | | | | | | | + 45.42 |
| | κ | | | 21.6 | | | | | | | | | − .34 |
| | | | | 48 54.3 | 48 8.1 | 11.5 | 15.0 | 18.5 | 21.9 | | | | − 8 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 44.97 | | − 3 |
| | | | | | | | | | | | | 47 | 59.97 |
| | $a_2$ | | | | | | | | | | | | − 2.31 |
| | | | | | | | | | | | | 48 | 57.66 |
| | 50 | 15 53 00 | 6.4 | 49 3.7 | 49 31.9 | 35.5 | 38.7 | 42.3 | 45.7 | | | 49 | 38.2 |
| | 49 | 20.8 53 5.6 | 8.5 | 6.1 | | | | | | | | | + 43.62 |
| | κ | | | 8.8 | | | | | | | | | − 8 |
| | | | | 6.2 | | | | | | | | | − 7 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 43.44 | | − 3 |
| | | | | | | | | | | | | 50 | 22.26 |
| | $a_1$ | | | | | | | | | | | | − 2.31 |
| | | | | | | | | | | | | 50 | 19.95 |
| | | | 8.2 | 49 2.5 | 49 30.4 | 33.6 | 37.1 | 40.8 | 44.1 | | | 49 | 37.14 |
| | | | | 5.1 | | | | | | | | | + 45.42 |
| | κ | | | 9.0 | | | | | | | | | − .33 |
| | | | | 5.7 | | | | | | | | | − 8 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 44.98 | | − 3 |
| | | | | | | | | | | | | 50 | 22.12 |
| | $a_2$ | | | | | | | | | | | | − 2.27 |
| | | | | | | | | | | | | 50 | 19.85 |

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Runs $R_{ey}$ = +18 17.97 — May 12 — May 14 — 2296

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8 | 3′ 33.3 | 41.6 | 3′ | 37.40 | 54 19 10.95 | | | 0′ | 54 29 3.04 | |
| | +34.6 | | | | | 29 28.92 | | | | − 32 | +12.50 |
| 1.54 d | 1.53908 | | | | | −25.88 | | | | − 18 | |
| | 9.76395 | | | | | | 29 | 3.04 | | + 12.62 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.41295 m | | | | | | | | | + .45 | ✓ |
| | | | | 28 47.3 | | | | | | − 8.30 | |
| +3.19 $\delta_1$ | | 45 47.65 | | 29 27.3 | | | | | | 29 7.31 | |
| −2002 | +38.0 | | | | | | | | | | |
| | +27.0 | 3 30.0 | 48.9 | 3 | 39.45 | 54 19 8.90 | | | 0 | 3.44 | |
| | 1.57978 | | | | | 29 31.86 | | | | − 38 | +12.09 |
| d | 9.76395 | | | | | −28.42 | | | | − 18 | |
| | 1.45365 m | | | | | | 29 | 3.44 | | + 12.20 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .45 | |
| | | | | 28 46.9 | | | | | | − 8.60 | |
| +3.19 $\delta_2$ | | 45 47.68 | | 29 26.9 | | | | | | 29 6.93 | |
| −2002 | | | | | | | | | | | |
| | +13.4 | 2 47.9 | 54.4 | 12 | 51.15 | 54 9 57.20 | | | 10 | 54 20 5.11 | |
| 60 | 1.12710 | | | | | 20 15.17 | | | | − 5 | +12.70 |
| d | 9.76572 | | | | | −10.06 | | | | − 14 | |
| | 1.00274 m | | | | | | 20 | 5.11 | | + 12.46 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .43 | |
| | | | | 19 49.6 | | | | | | − 8.20 | |
| +3.18 $\delta_1$ | | 46 26.37 | | 20 29.6 | | | | | | 21° 9.61 | |
| −2002 | | | | | | | | | | | |
| | +16.0 | 2 44.1 | 2.9 | 12 | 53.80 | 54 9 54.55 | | | 10 | 5.50 | |
| | 1.20412 | | | | | 20 17.51 | | | | − 7 | +12.26 |
| d | 9.76572 | | | | | −12.01 | | | | − 14 | |
| | 1.07976 m | | | | | | 20 | 5.50 | | + 12.04 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .43 | |
| | | | | 19 49.2 | | | | | | − 8.50 | |
| +3.18 $\delta_2$ | | 46 26.32 | | 20 29.3 | | | | | | 21° 9.26 | |
| − 2002 | | | | | | | | | | | |
| | +13.0 | 4 13.0 | 21.0 | 9 | 17.00 | 54 13 31.35 | | | 5 | 54 23 39.57 | |
| 46 | 1.11394 | | | | | 23 49.32 | | | | − 5 | +12.71 |
| d | 9.76501 | | | | | −9.75 | | | | − 21 | |
| | 0.98887 m | | | | | | 23 | 39.57 | | + 12.53 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .44 | |
| | | | | | | | | | | − 8.20 | |
| +3.18 $\delta_1$ | | 47 14.53 | | 23 24.1 | | | | | | 23 44.08 | |
| −2002 | | | | | | | | | | | |
| | +12.1 | 4 14.1 | 30.9 | 9 | 22.50 | 54 13 25.85 | | | 5 | 39.74 | |
| | 1.08279 | | | | | 23 48.81 | | | | − 4 | +12.29 |
| d | 9.76501 | | | | | −9.07 | | | | − 22 | |
| | 0.95772 m | | | | | | 23 | 39.74 | | + 12.11 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .44 | |
| | | | | | | | | | | − 8.50 | |
| +3.18 $\delta_2$ | | 47 14.93 | | 23 23.5 | | | | | | 23 43.53 | |
| − 2002 | | | | | | | | | | | |
| | +31.2 | 4 35.7 | 44.7 | 39 | 40.30 | 53 43 8.05 | | | 35 | 53 53 2.33 | |
| 66 | 1.49415 | | | | | 53 26.02 | | | | − 25 | +11.89 |
| d | 9.77043 | | | | | −23.69 | | | | − 23 | |
| | 1.37450 m | | | | | | 53 | 2.33 | | + 11.97 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 7.90 | |
| +3.16 $\delta_1$ | | 49 0.91 | | 52 46.3 | | | | | | 53 6.32 | |
| −2003 | | | | | | | | | | | |
| | +17.7 | 4 45.1 | 30 | 39 | 54.05 | 53 42 54.30 | | | 35 | 3.82 | |
| | 1.24797 | | | | | 53 17.26 | | | | − 8 | +11.65 |
| d | 9.77043 | | | | | −13.44 | | | | − 24 | |
| | 1.12832 m | | | | | | 53 | 3.82 | | + 11.57 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 8.20 | |
| +3.16 $\delta_2$ | | 49 0.82 | | 52 47.2 | | | | | | 53 7.27 | |
| −2003 | | | | | | | | | | 2 | |
| | +32.6 | 4 17.0 | 24.9 | 34 | 20.95 | 52 48 27.40 | | | 30 | 53 88 20.09 | Red. wrong |
| | 1.51322 | | | | | 58 45.37 | | | | − 28 | +14.97 |
| 68 d | 9.77963 | | | | | −25.28 | | | | − 22 | + 10.89 |
| | 1.40277 m | | | | | | 58 | 20.09 | | + ~~12.07~~ 10.99 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 7.60 | |
| +3.15 $\delta_1$ | | 50 23.10 | | 58 3.8 | | | | | | 58 23.38 | |
| −2004 | | | | | | | | | | | |
| | +31.4 | 4 17.9 | 38.0 | 34 | 27.95 | 52 48 20.40 | | | 30 | 19.01 | |
| | 1.49693 | | | | | 58 43.36 | | | | − 25 | +10.55 |
| d | 9.77963 | | | | | −24.35 | | | | − 22 | |
| | 1.38648 m | | | | | | 58 | 19.01 | | + 10.62 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 7.90 | |
| +3.15 $\delta_2$ | | 50 23.00 | | 58 1.6 | | | | | | 58 21.66 | |
| −2004 | | | | | | | | | | | |

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298

Date$_1$ = May 12, 1874 Observer R. A. R. Recorder J. F. W.

299

Date$_2$ = May 14, 1874 Observer Recorder

52

Ru

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | |
| 51 | 26 | 54 54 | 8.6 | 58m 19.4 | 30 43.2 | 46.7 | 50.5 | 54.0 | 57.6 | | | 50 | 50.44 |
| 50 | 32.7 | 54 57.8 | 8.3 | 22.5 | | | | | | | | + | 43.62 |
| κ | | | | 25.2 | | | | | | | | − | .8 |
| | | | | 22.4 | | | | | | | | − | .7 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | + 43.44 | − | .3 |
| | | | | | | | | | | | | 51 | 33.88 |
| $c_1$ | | | | | | | | | | | | | −2.42 |
| | | | | | | | | | | | | 51 | 31.46 |
| | | | 8.8 | 30 22.5 | 30 41.8 | 45.2 | 48.8 | 52.5 | 55.9 | | | 50 | 48.84 |
| | | | | 26.3 | | | | | | | | + | 45.42 |
| κ | | | | 29.0 | | | | | | | | − | .36 |
| | | | | 24.9 | | | | | | | | − | .9 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | + 44.94 | − | .3 |
| | | | | | | | | | | | | 51 | 33.78 |
| $\alpha_2$ | | | | | | | | | | | | | −2.38 |
| | | | | | | | | | | | | 51 | 31.40 |
| 52 | 31 | 50 26 | 9.7 | 31 40.5 | 31 49.4 | 52.9 | 55.9 | 59.1 | 2.2 | | | 51 | 55.90 |
| ~~52~~ | ~~56.6~~ | 50 31.4 | 9.5 | 43.3 | | | | | | | | + | 43.62 |
| 51 κ | 37.5 | | | 46.5 | | | | | | | | − | .7 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 43.4 | | | | | | | + 43.47 | − | .6 |
| | | | | | | | | | | | | − | .2 |
| | | | | | | | | | | | | 52 | 39.37 |
| $\alpha_1$ | | | | | | | | | | | | | −2.21 |
| | | | | | | | | | | | | 52 | 37.16 |
| | | | 9.5 | 51 29.8 | 31 47.4 | 50.9 | 54.1 | 57.2 | — | | | 51 | 54.01 |
| | | | | 33.5 | | | | | | | | + | 45.42 |
| κ | | | | 37.5 | | | | | | | | − | .30 |
| | | | | 32.6 | | | | | | | | − | .8 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | + 45.02 | − | .2 |
| | | | | | | | | | | | | 52 | 39.03 |
| $\alpha_2$ | | | | | | | | | | | | | −2.17 |
| | | | | | | | | | | | | 52 | 36.86 |
| 53 | 16 | 53 55 | 9.2 | 52 26.4 | 52 35.5 | 38.9 | 42.5 | 45.3 | 47.6 | | | 52 | 42.36 |
| 52 | 22.7 | 54 0.5 | 8.8 | 29.6 | | | | | | | | + | 43.62 |
| κ | | | | 32.8 | | | | | | | | − | .8 |
| | | | | 27.6 | | | | | | | | − | .7 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | + 43.44 | − | .3 |
| | | | | | | | | | | | | 53 | 25.80 |
| $\alpha_1$ | | | | | | | | | | | | | −2.38 |
| | | | | | | | | | | | | 53 | 23.42 |
| | | | 8.9 | 52 23.8 | 52 33.6 | 37.3 | 40.8 | 44.4 | 47.8 | | | 52 | 40.78 |
| | | | | 28.2 | | | | | | | | + | 45.42 |
| κ | | | | 29.1 | | | | | | | | − | .34 |
| | | | | 26.4 | | | | | | | | − | .8 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | + 44.97 | − | .3 |
| | | | | | | | | | | | | 53 | 25.75 |
| $\alpha_2$ | | | | | | | | | | | | | −2.34 |
| | | | | | | | | | | | | 53 | 23.41 |
| 54 | 47 | 54 45 | 9.1 | 53 38.0 | 54 3.6 | 7.0 | 10.6 | 14.2 | 17.7 | | | 54 | 10.62 |
| 53 | 54.4 | 54 50.4 | 9.0 | 40.4 | | | | | | | | + | 43.62 |
| κ | | | | 43.7 | | | | | | | | − | .8 |
| | | | | 40.1 | | | | | | | | − | .7 |
| (δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | + 43.44 | − | .3 |
| | | | | | | | | | | | | 54 | 54.06 |
| $\alpha_1$ | | | | | | | | | | | | | −2.43 |
| | | | | | | | | | | | | 54 | 51.63 |
| | | | 9.1 | 53 32.0 | 54 1.8 | 5.5 | 9.0 | 12.7 | 16.2 | | | 54 | 9.04 |
| | | | | 36.1 | | | | | | | | + | 45.42 |
| κ | | | | 38.6 | | | | | | | | − | .35 |
| | | | | 32.6 | | | | | | | | − | .8 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | + 44.95 | − | .3 |
| | | | | | | | | | | | | 54 | 53.99 |
| $\alpha_2$ | | | | | | | | | | | | | −2.39 |
| | | | | | | | | | | | | 54 | 51.60 |
| 55 | 36 | 53 13 | 9.8 | 53 9.5 | 54 52.3 | 55.7 | 59.5 | 2.7 | 6.1 | | | 54 | 59.26 |
| 54 | 42.5 | 53 18.7 | 9.3 | 12.9 | | | | | | | | + | 43.62 |
| κ | | | | 15.8 | | | | | | | | − | .8 |
| | | | | 12.7 | | | | | | | | − | .7 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | + 43.44 | − | .3 |
| | | | | | | | | | | | | 55 | 42.70 |
| $\alpha_1$ | | | | | | | | | | | | | −2.36 |
| | | | | | | | | | | | | 55 | 40.34 |
| | | | 9.5 | 54 47.6 | 54 50.8 | 54.4 | 57.7 | (1.0) | 4.2 | | | 54 | 57.60 |
| | | | | 49.8 | | | | | | | | + | 45.42 |
| κ | | | | 52.1 | | | | | | | | − | .33 |
| | | | | 50.2 | | | | | | | | − | .8 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | + 44.98 | − | .3 |
| | | | | | | | | | | | | 55 | 42.58 |
| $\alpha_2$ | | | | | | | | | | | | | −2.32 |
| | | | | | | | | | | | | 55 | 40.26 |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | s | 4′ 34.2 | 40.3 | 39′ | 37.25 | 54 43 11.10 | | | 35′ | 54 53 8.33 | |
| 60 d | +28.0 | | | | | 53 29.07 | | | | − 20 | +13.11 |
| | 1.44716 | | | | | −20.74 | | | | − 23 | |
| ((δ) − D) $\frac{d'}{100}$ | 9.75985 | | | | | | 53 8.33 | | | + 13.05 | |
| | 1.31693 | | | | | | | | | + 49 | |
| +3.14 $\delta_1$ | | 51 34.60 | | 52 53.4 | | | | | | − 8.00 | |
| −20.04 | | | | | | | | | | 53 13.44 | |
| | +22.9 | 4 37.1 | 54.0 | 39 | 45.55 | 54 43 2.80 | | | 35 | 8.79 | |
| d | 1.35984 | | | | | 53 25.76 | | | | − 14 | +12.72 |
| | 9.75985 | | | | | −16.97 | | | | − 24 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.22961 | | | | | | 53 8.79 | | | + 12.61 | |
| | | | | | | | | | | + 49 | |
| +3.14 $\delta_2$ | | 51 34.54 | | 52 53.2 | | | | | | − 8.30 | |
| −20.04 | | | | | | | | | | 53 13.21 | |
| | +12.5 | 2 53.2 | 57.1 | 7 | 56.15 | 50 14 52.20 | | | 5′ | 50 24 59.91 | |
| 89 d | 1.09691 | | | | | 25 10.17 | | | | − 4 | +6.44 |
| | 9.80428 | | | | | −10.26 | | | | − 15 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.01111 | | | | | | 24 59.91 | | | + 8.31 | |
| | | | | | | | | | | + 32 | |
| +3.12 $\delta_1$ | | 52 40.28 | | 24 41.5 | | | | | | − 6.80 | |
| −20.04 | | | | | | | | | | 25 1.55 | |
| | +20.4 | 2 45.9 | 4.9 | 7 | 55.40 | 50 14 52.95 | 53.05 | | 5 | 24 59.27 | |
| | 1.30963 | | | | | 25 +5.91 | 1.01 | | | − 11 | +8.07 |
| d | 9.80428 | | | | | −16.74 | | | | − 15 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.22383 | | | | | | 24 59.27 | | | + 8.01 | |
| | | | | | | | | | | + 32 | |
| +3.12 $\delta_2$ | | 52 39.98 | | 24 40.2 | | | | | | − 7.10 | |
| −20.04 | | | | | | | | | | 25 0.24 | |
| | +12.8 | 4 12.7 | 19.7 | 39 | 16.20 | 53 43 32.15 | | | 35 | 53 53 40.41 | |
| 58 d | 1.10721 | | | | | 53 50.12 | | | | − 5 | +12.11 |
| | 9.77026 | | | | | − 9.71 | | | | − 21 | |
| ((δ) − D) $\frac{d'}{100}$ | 0.98739 | | | | | | 53 40.41 | | | + 11.94 | |
| | | | | | | | | | | + 40 | |
| +3.12 $\delta_1$ | | 53 26.54 | | 53 24.9 | | | | | | − 7.60 | |
| −20.05 | | | | | | | | | | 53 44.92 | |
| | +14.4 | 4 10.6 | 28.1 | 39 | 19.35 | 53 43 29.00 | | | 35 | 41.03 | |
| d | 1.15836 | | | | | 53 51.96 | | | | − 5 | +11.73 |
| | 9.77026 | | | | | −10.93 | | | | − 21 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.03854 | | | | | | 53 41.03 | | | + 11.59 | |
| | | | | | | | | | | + 40 | |
| +3.12 $\delta_2$ | | 53 26.53 | | 53 24.8 | | | | | | − 7.90 | |
| −20.05 | | | | | | | | | | 53 44.86 | |
| | +29.9 | 4 8.0 | 16.1 | 49 | 12.05 | 54 33 36.30 | | | 45 | 54 43 32.03 | |
| 58 d | 1.47567 | | | | | 43 54.27 | | | | − 23 | +12.94 |
| | 9.76146 | | | | | −22.24 | | | | − 21 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.34705 | | | | | | 43 32.03 | | | + 12.91 | |
| | | | | | | | | | | + 47 | |
| +3.11 $\delta_1$ | | 54 54.74 | | 43 17.2 | | | | | | − 7.70 | |
| −20.05 | | | | | | | | | | 43 37.27 | |
| | +33.4 | 4 5.2 | 23.1 | 489 | 14.15 | 54 37 34.20 | | | 45 | 44 32.33 | |
| | 1.52375 | | | | | 44 57.16 | | | | − .28 | +12.47 |
| d | 9.76129 | | | | | −24.83 | | | | − .17 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.39496 | | | | | | 44 32.33 | | | + 12.45 | |
| | | | | | | | | | | + .47 | |
| +3.11 $\delta_2$ | | 54 54.71 | | 43 16.8 | | | | | | − 8.00 | |
| −20.05 | | | | | | | | | | 44 36.80 | |
| | −13.4 | 2 40.9 | 49.8 | 22 | 45.35 | 53 0 3.00 | | | 20 | 53 10 31.32 | |
| 66 d | 1.12710 | | | | | 10 20.97 | | | | − 5 | +11.43 |
| | 9.77778 | | | | | +10.35 | | | | − 14 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.01480 | | | | | | 10 31.32 | | | + 11.22 | |
| | | | | | | | | | | + .40 | |
| +3.11 $\delta_1$ | | 55 43.45 | | 10 15.4 | | | | | | − 7.30 | |
| −20.05 | | | | | | | | | | 10 35.45 | |
| | +7.4 | 2 24.0 | 42.9 | 22 | 33.45 | 53 0 14.90 | | | 20 | 32.15 | |
| | 0.86923 | | | | | 10 37.86 | | | | − 2 | +11.08 |
| d | 9.77778 | | | | | −5.71 | | | | − 13 | |
| ((δ) − D) $\frac{d'}{100}$ | 0.73693 | | | | | | 10 32.15 | | | + 10.83 | |
| | | | | | | | | | | + .40 | |
| +3.11 $\delta_2$ | | 55 43.37 | | 10 15.6 | | | | | | − 7.60 | |
| −20.05 | | | | | | | | | | 10 35.63 | |

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Date$_1$ = May 12, 1874 Observer W.A.R

Recorder J.T.M

299

Date$_2$ = May 14, 1874 Observer

Recorder

54

Run

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 56m 55 | 38 50 06 44.1 | 9.1 9.2 | 55 s 52.4 53.1 54.1 52.2 | 55 55.7 | 59.0 | 2.4 | 5.4 | 8.7 | | | m s 56 2.22 | |
| κ | | | | | | | | | | | | + 43.62 | |
| | | | | | | | | | | | | − 7 | 7 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | − 6 | |
| | | | | | | | | | | | + 43.47 | − 2 | ( |
| $\alpha_1$ | | | | | | | | | | | | 56 45.69 | |
| | | | | | | | | | | | | − 2.22 | + |
| | | | | | | | | | | | | 56 43.47 | − 2 |
| | | | 9.2 | 55 44.2 47.3 50.3 47.2 | 55 54.0 | 57.2 | 0.6 | 3.8 | 6.9 | | | 56 0.50 | |
| κ | | | | | | | | | | | | + 45.42 | |
| | | | | | | | | | | | | − 30 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | − 8 | |
| | | | | | | | | | | | + 45.02 | − 2 | ( |
| $\alpha_2$ | | | | | | | | | | | | 56 46.52 | |
| | | | | | | | | | | | | − 2.18 | +3 |
| | | | | | | | | | | | | 56 43.34 | − 2 |
| | 58 57 | 00 50 57 7.4 51 2.2 | 9.1 9.0 | 56 34.3 57.4 59.6 57.1 | 57 17.4 | 20.6 | 24.1 | 27.3 | 30.5 | | | 57 23.98 | |
| κ | | | | | | | | | | | | + 43.62 | |
| | | | | | | | | | | | | − 7 | 6 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | − 6 | |
| | | | | | | | | | | | + 43.47 | − 2 | ( |
| $\alpha_1$ | | | | | | | | | | | | 58 7.45 | |
| | | | | | | | | | | | | − 2.26 | +3 |
| | | | | | | | | | | | | 58 5.19 | − 2 |
| | | | 9.1 | 57 0.9 2.8 6.3 5.6 | 57 15.7 | 19.1 | 22.3 | 25.6 | 28.9 | | | 57 22.32 | |
| κ | | | | | | | | | | | | + 45.42 | |
| | | | | | | | | | | | | − 31 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | − 8 | |
| | | | | | | | | | | | + 45.01 | − 2 | ( |
| $\alpha_2$ | | | | | | | | | | | | 58 7.33 | |
| | | | | | | | | | | | | − 2.23 | +3 |
| | | | | | | | | | | | | 58 5.10 | − 2 |
| | 58 57 | 29 51 58 36.8 52.3 | 9.0 | 57 44.4 45.5 46.5 47.5 | 57 47.8 | 51.1 | 54.5 | 57.8 | 1.3 | | | 57 54.50 | |
| κ | | | | | | | | | | | | + 43.62 | 56 |
| | | | | | | | | | | | | − 8 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | − 6 | |
| | | | | | | | | | | | + 43.46 | − 2 | ( |
| $\alpha_1$ | | | | | | | | | | | | 58 37.96 | |
| | | | | | | | | | | | | − 2.31 | +3 |
| | | | | | | | | | | | | 58 35.65 | − 2 |
| | | | 8.7 | 57 46.8 | 57 46.1 | 49.7 | 53.0 | 56.3 | 59.6 | | | 57 52.94 | |
| κ | | | | | | | | | | | | + 45.42 | |
| | | | | | | | | | | | | − 32 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | − 8 | |
| | | | | | | | | | | | + 45.00 | − 2 | ( |
| $\alpha_2$ | | | | | | | | | | | | 58 37.94 | |
| | | | | | | | | | | | | − 2.28 | +3 |
| | | | | | | | | | | | | 58 35.66 | − 2 |
| | 59 58 | 24 51 01 32.1 51 6.5 | 8.5 8.2 | 58 28.5 30.0 31.5 30.0 | 58 43.5 | 46.9 | 50.1 | 53.4 | 56.7 | | | 58 50.12 | |
| κ | | | | | | | | | | | | + 43.62 | |
| | | | | | | | | | | | | − 7 | 6 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | − 6 | |
| | | | | | | | | | | | + 43.47 | − 2 | ( |
| $\alpha_1$ | | | | | | | | | | | | 59 33.59 | |
| | | | | | | | | | | | | − 2.27 | +3 |
| | | | | | | | | | | | | 59 31.32 | − 2 |
| | | | 8.4 | 58 32.5 34.5 37.5 34.8 | 58 41.9 | 45.2 | 48.5 | 51.9 | 55.0 | | | 58 48.50 | |
| κ | | | | | | | | | | | | + 45.42 | |
| | | | | | | | | | | | | − 31 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | − 8 | |
| | | | | | | | | | | | + 45.01 | − 2 | ( |
| $\alpha_2$ | | | | | | | | | | | | 59 33.51 | |
| | | | | | | | | | | | | − 2.24 | +3 |
| | | | | | | | | | | | | 59 31.27 | − 2 |
| 12 2 | 00 59 | 22 52 28 30.0 52 33.2 | 8.5 9.0 | 59 26.0 29.1 31.1 28.7 | 59 41.6 | 45.2 | 48.6 | 51.9 | 55.2 | | | 59 48.46 | |
| κ | | | | | | | | | | | | + 43.62 | |
| | | | | | | | | | | | | − 8 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | − 7 | |
| | | | | | | | | | | | + 43.45 | − 2 | ( |
| $\alpha_1$ | | | | | | | | | | | | 00 31.91 | |
| | | | | | | | | | | | | − 2.35 | +3 |
| | | | | | | | | | | | | 00 29.56 | − 2 |
| | | | 8.8 | 59 30.0 33.3 36.3 33.2 | 59 40.0 | 43.5 | 47.0 | 50.2 | 53.6 | | | 59 46.86 | |
| κ | | | | | | | | | | | | + 45.42 | |
| | | | | | | | | | | | | − 32 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | − 8 | |
| | | | | | | | | | | | + 45.00 | − 2 | ( |
| $\alpha_2$ | | | | | | | | | | | | 00 31.86 | |
| | | | | | | | | | | | | − 2.31 | +3 |
| | | | | | | | | | | | | 00 29.55 | − 2 |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8 | 2′ 13.1′ | 20.4 | 27′ | 17.06 | 49 55 31.35 | | | 25′ | 50 5 41.88 | |
| | +9.0 | | | | | 50 5 49.32 | | | | − 2 | +8.15 |
| 72 d | 0.954244 | | | | | −7.44 | | | | − 11 | |
| | 9.80716 | | | | | | 5 41.88 | | | + 7.98 | |
| ((δ) − D) $\frac{d'}{100}$ | 0.87132$_m$ | | | | | | | | | + .30 | |
| | | 57 | | | | | | | | − 6.50 | |
| +3.10 $\delta_1$ | | 56 46.6 | | 5 23.5 | | | | | | 5 43.53 | |
| | +13.2 | 2 8.8 | 26.3 | 27 | 17.55 | 49 55 30.80 | | | 25 | 42.85 | |
| | 1.12057 | | | | | 50 5 53.76 | | | | − 5 | +7.85 |
| d | 9.80716 | | | | | −10.91 | | | | − 11 | |
| | 1.03765$_m$ | | | | | | 5 42.85 | | | + 7.71 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .30 | |
| | | | | | | | | | | − 6.80 | |
| +3.10 $\delta_2$ | | 56 46.44 | | 5 23.8 | | | | | | 5 43.90 | |
| | +26.9 | 1 21.3 | 29.1 | 36 | 25.20 | 49 46 23.15 | | | 35 | 50 56 18.83 | |
| | 1.42975 | | | | | 56 41.12 | | | | − 19 | +8.94 |
| 66 d | 9.80852 | | | | | −22.29 | | | | − 7 | |
| | 1.34819$_m$ | | | | | | 56 18.83 | | | + 8.85 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .35 | |
| | | 28 | | | | | | | | − 6.50 | |
| +3.09 $\delta_1$ | | 58 8.8 | | 56 1.2 | | | | | | 56 21.27 | |
| | +18.7 | 1 25.5 | 46.7 | 36 | 37.60 | 49 46 10.75 | | | 35 | 18.21 | |
| | 1.27184 | | | | | 56 33.71 | | | | − 10 | +8.75 |
| d | 9.80852 | | | | | −15.50 | | | | − 8 | |
| | 1.19028$_m$ | | | | | | 56 18.21 | | | + 8.58 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .35 | |
| | | | | | | | | | | − 6.90 | |
| +3.09 $\delta_2$ | | 58 8.19 | | 56 0.0 | | | | | | 56 20.06 | |
| | +9.0 | 1 7.8 | 17.0 | 36 | 12.40 | 51 46 35.95 | | | 35 | 51 56 46.78 | |
| | 0.954244 | | | | | 56 53.92 | | | | − 2 | +10.24 |
| 56 d | 9.78983 | | | | | −7.14 | | | | − 6 | |
| | 0.85399$_m$ | | | | | | 56 46.78 | | | + 9.92 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 6.80 | |
| +3.08 $\delta_1$ | | 58 38.73 | | 56 30.2 | | | | | | 56 49.22 | |
| | +6.1 | 1 9.7 | 25.2 | 36 | 18.95 | 51 46 29.40 | | | 35 | 47.52 | |
| | 0.78533 | | | | | 56 52.36 | | | | − 1 | +9.90 |
| d | 9.78983 | | | | | − 4.84 | | | | − 6 | |
| | 0.68508$_m$ | | | | | | 56 47.52 | | | + 9.57 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 7.10 | |
| +3.08 $\delta_2$ | | 58 38.74 | | 56 30.3 | | | | | | 56 50.32 | |
| | +20.1 | 3 9.6 | 17.6 | 33 | 13.55 | 50 49 34.80 | | | 30 | 50 59 36.48 | |
| | 1.30320 | | | | | 59 52.77 | | | | − 11 | +9.00 |
| 62 d | 9.79887 | | | | | −16.29 | | | | − 16 | |
| | 1.21149$_m$ | | | | | | 59 36.48 | | | + 8.92 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .35 | |
| +3.08 | | | | | | | | | | − 6.50 | |
| −2.05 $\delta_1$ | | 59 34.40 | | 59 18.9 | | | | | | 59 38.98 | |
| | +13.7 | 3 14.9 | 33.1 | 33 | 24.00 | 50 49 24.35 | | | 30 | 36.21 | |
| | 1.13672 | | | | | 59 47.31 | | | | − 5 | +8.75 |
| d | 9.79887 | | | | | −11.10 | | | | − 17 | |
| | 1.04551$_m$ | | | | | | 59 36.21 | | | + 8.62 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .35 | |
| +3.08 | | | | | | | | | | − 6.89 | |
| −2.05 $\delta_2$ | | 59 34.35 | | 59 18.1 | | | | | | 59 38.16 | |
| | +19.8 | 1 37.2 | 46.6 | 6 | 41.90 | 52 16 6.45 | | | 5 | 52 26 8.87 | |
| | 1.29667 | | | | | 26 24.42 | | | | − 17 | +10.64 |
| 60 d | 9.78510 | | | | | −15.55 | | | | − 8 | |
| | 1.19169$_m$ | | | | | | 26 8.87 | | | + 10.43 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| +3.08 | | | | | | | | | | − 6.80 | |
| −2.05 $\delta_1$ | | 0 32.64 | | 25 52.6 | | | | | | 26 12.71 | |
| | +13.7 | 1 42.0 | 1.9 | 6 | 51.95 | 52 16 56.40 | | | 5 | 86.9 | |
| | 1.13672 | | | | | 26 19.36 | | | | − 5 | +10.34 |
| d | 9.78570 | | | | | −10.76 | | | | − 9 | |
| | 1.03174$_m$ | | | | | | 26 8.60 | | | + 10.08 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| +3.08 | | | | | | | | | | − 7.10 | |
| −2.05 $\delta_2$ | | 0 32.63 | | 25 51.8 | | | | | | 26 11.84 | |

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Date$_1$ = May 12, 1874 Observer W. A. R. Recorder J. H. M.

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Date$_2$ = May 14, 1874 Observer Recorder

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| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | h m s 02 41 50 56 | ° ′ ″ | 9.4 | m s 7 46.4 | m s 2 0.1 | 3.2 | 6.6 | 9.9 | 13.2 | | | h m s 2 6.60 | |
| | 01 49.1 | 51 1.8 | 9.5 | 49.4 | | | | | | | | + 43.62 | |
| | κ | | | 52.3 | | | | | | | | − 7 | 6 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 49.6 | | | | | | | | − 6 | |
| | | | | | | | | | | | + 43.447 | − 2 | |
| | $c_1$ | | | | | | | | | | | 2 50.07 | |
| | | | | | | | | | | | | − 2.30 | +3 |
| | | | | | | | | | | | | 2 47.77 | −2 |
| | | | 9.7 | 2 9.3 | 1 58.4 | 1.4 | 5.2 | 8.1 | 11.5 | | | 2 4.92 | |
| | | | | | | | | | | | | + 45.42 | |
| | κ | | | | | | | | | | | − 31 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | − 8 | |
| | | | | | | | | | | | + 45.01 | − 2 | |
| | $c_2$ | | | | | | | | | | | 2 49.93 | |
| | | | | | | | | | | | | − 2.26 | +3 |
| | | | | | | | | | | | | 2 47.67 | −2 |
| | 04 24 | 51 15 | 7.9 | 3 20.6 | 3 43.3 | 46.5 | 50.1 | 53.3 | 56.6 | | | 3 49.96 | |
| | 03 32.6 | 51 21.0 | 7.8 | 24.5 | | | | | | | | + 43.62 | |
| | κ | | | 26.5 | | | | | | | | − 7 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 23.7 | | | | | | | | − 6 | |
| | | | | | | | | | | | + 43.47 | − 2 | |
| | $\alpha_1$ | | | | | | | | | | | 4 33.43 | |
| | | | | | | | | | | | | − 2.32 | +3 |
| | | | | | | | | | | | | 4 31.11 | −2 |
| | | | 8.0 | 3 23.3 | 3 41.7 | 45.1 | 48.4 | 51.6 | 54.8 | | | 3 48.32 | |
| | | | | 26.6 | | | | | | | | + 45.42 | |
| | κ | | | 28.5 | | | | | | | | − 31 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 26.1 | | | | | | | | − 8 | |
| | | | | | | | | | | | + 45.01 | − 2 | |
| | $\alpha_2$ | | | | | | | | | | | 4 33.33 | |
| | | | | | | | | | | | | − 2.28 | +3 |
| | | | | | | | | | | | | 4 31.05 | −2 |
| | 05 33 | 51 46 | 9.1 | 4 28.2 | 4 54.4 | 57.8 | 1.1 | 4.4 | 7.7 | | | 5 1.08 | |
| | 04 40.9 | 51 57.2 | 9.0 | 30.8 | | | | | | | | + 43.62 | |
| | κ | | | 34.2 | | | | | | | | − 8 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 31.1 | | | | | | | | − 6 | |
| | | | | | | | | | | | + 43.46 | − 2 | |
| | $\alpha_1$ | | | | | | | | | | | 5 44.54 | |
| | | | | | | | | | | | | − 2.35 | +3 |
| | | | | | | | | | | | | 5 42.19 | −2 |
| | | | 9.1 | 4 23.0 | 4 52.8 | 56.3 | 59.5 | 2.6 | 6.2 | | | 4 59.48 | |
| | | | | 26.8 | | | | | | | | + 45.42 | |
| | κ | | | 29.8 | | | | | | | | − 32 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 26.5 | | | | | | | | − 8 | |
| | | | | | | | | | | | + 45.00 | − 2 | |
| | $\alpha_2$ | | | | | | | | | | | 5 44.48 | |
| | | | | | | | | | | | | − 2.31 | +3 |
| | | | | | | | | | | | | 5 42.17 | −2 |
| | 06 17 | 51 00 | 8.4 | 5 23.2 | 5 34.2 | 37.5 | 40.7 | 44.0 | 47.3 | | | 5 40.74 | |
| | 05 24.2 | 51 6.2 | 8.4 | 25.8 | | | | | | | | + 43.62 | |
| | κ | | | 28.1 | | | | | | | | − 7 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 25.7 | | | | | | | | − 6 | |
| | | | | | | | | | | | + 43.47 | − 2 | |
| | $\alpha_1$ | | | | | | | | | | | 6 24.21 | |
| | | | | | | | | | | | | − 2.32 | +3 |
| | | | | | | | | | | | | 6 21.89 | −2 |
| | | | 8.3 | 5 28.8 | 5 32.6 | 36.1 | 39.2 | 42.5 | 45.8 | | | 5 39.24 | |
| | | | | 31.5 | | | | | | | | + 45.42 | |
| | κ | | | 34.2 | | | | | | | | − 31 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 31.5 | | | | | | | | − 8 | |
| | | | | | | | | | | | + 45.01 | − 2 | |
| | $\alpha_2$ | | | | | | | | | | | 6 24.25 | |
| | | | | | | | | | | | | − 2.28 | +3 |
| | | | | | | | | | | | | 6 21.97 | −2 |
| | 07 12 | 53 57 | 8.5 | 6 10.9 | 6 27.6 | 31.1 | 34.6 | 38.0 | 41.6 | | | 6 34.58 | |
| | 06 20.2 | 54 2.2 | 9.0 | 14.0 | | | | | | | | + 43.62 | |
| | κ | | | 17.3 | | | | | | | | − 8 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 14.1 | | | | | | | | − 7 | |
| | | | | | | | | | | | + 43.44 | − 3 | |
| | $\alpha_1$ | | | | | | | | | | | 7 18.02 | |
| | | | | | | | | | | | | − 2.47 | +3 |
| | | | | | | | | | | | | 7 15.55 | −2 |
| | | | 8.3 | 6 24.3 | 6 26.0 | 29.6 | 33.2 | 36.6 | 40.1 | | | 6 33.10 | |
| | | | | 50.2 | | | | | | | | + 45.42 | |
| | κ | | | 58.4 | | | | | | | | − 34 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 57.3 | | | | | | | | − 9 | |
| | | | | | | | | | | | + 44.96 | − 3 | |
| | $\alpha_2$ | | | | | | | | | | | 7 18.06 | |
| | | | | | | | | | | | | − 2.43 | +3 |
| | | | | | | | | | | | | 7 15.63 | −2 |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +17.0 | 2 24.7 | 31.4 | 37 | 28.05 | 50 45 20.30 | | | 35 | 50 55 24.47 | |
| | 1.23045 | | | | | 55 38.27 | | | | − 8 | +8.99. |
| 68 d | 9.79950 | | | | | −13.80 | | | | − 12 | |
| | 1.13987 m | | | | | | 55 24.47 | | | + 8.84 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .35 | |
| | | | | | | | | | | − 6.20 | |
| +3.05 $\delta_1$ | | 2 50.82 | | 55 7.2 | | | | | | 55 27.26 | |
| −20.05 | | | | | | | | | | 24.83 | |
| | −4.4 | 2 41.2 | 58.9 | 37 | 50.05 | 50 44 58.30 | | | 35 | ~~17.69~~ | |
| | 0.64345 m | | | | | 55 21.26 | | | | − 1 | +8.73 |
| d | 9.79965 | | | | | + 3.57 | | | | − 14 | |
| | 0.55302 | | | | | | 55 17.69 | | | + 8.53 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .35 | |
| | | | | | | | | | | −6.60 | |
| +3.05 $\delta_2$ | | 2 50.72 | | 55 6.9 | | | | | | 55 ~~19.82~~ | |
| −20.05 | | | | | | | | | | 26.96 | |
| | +26.1 | 2 44.5 | 51.4 | 17 | 47.95 | 51 5 0.40 | | | 15 | 51 14 57.33 | |
| | 1.41664 | | | | | 15 18.37 | | | | − 18 | +9.23 |
| 64 d | 9.79652 | | | | | −21.04 | | | | − 14 | |
| | 1.32308 m | | | | | | 14 57.33 | | | + 9.19 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .36 | |
| | | | | | | | | | | − 6.20 | |
| +3.04 $\delta_1$ | | 4 34.15 | | 14 40.3 | | | | | | 15 0.36 | |
| −20.05 | | | | | | | | | | | |
| | +22.2 | 2 46.3 | 54 | 17 | 55.85 | 51 4 52.50 | | | 15 | 57.56 | |
| | 1.34635 | | | | | 15 15.46 | | | | − 13 | +8.96 |
| d | 9.79652 | | | | | −17.90 | | | | − 14 | |
| | 1.25279 m | | | | | | 14 57.56 | | | + 8.87 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .36 | |
| | | | | | | | | | | − 6.50 | |
| +3.04 $\delta_2$ | | 4 34.09 | | 14 40.0 | | | | | | 15 0.02 | |
| −20.05 | | | | | | | | | | | |
| | +30.0 | 3 5.8 | 13.9 | 48 | 9.85 | 51 34 38.50 | | | 45 | 51 44 32.55 | E. mm |
| | 1.47712 | | | | | 44 56.47 | | | | − 24 | +9.65 |
| 60 d | 9.79176 | | | | | −23.92 | | | | − 16 | |
| | 1.37880 m | | | | | | 44 32.55 | | | + 9.67 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .38 | |
| | | | | | | | | | | − 6.20 | |
| +3.03 $\delta_1$ | | 5 45.22 | | 44 16.0 | | | | | | 44 36.00 | |
| −20.05 | | | | | | | | | | | |
| | +33.0 | 2 2.5 | 21.4 | 47 | 11.95 | 51 35 36.40 | | | 45 | 45 33.06 | |
| | 1.51851 | | | | | 45 59.36 | | | | − 29 | +9.36 |
| d | 9.79160 | | | | | −26.30 | | | | − 11 | |
| | 1.42003 m | | | | | | 45 33.06 | | | + 9.38 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .38 | |
| | | | | | | | | | | − 6.60 | |
| +3.03 $\delta_2$ | | 5 45.20 | | 45 15.8 | | | | | | 45 35.82 | |
| −20.05 | | | | | | | | | | | |
| | +15.0 | B4 2.9 | 10.4 | 334 | 6.65 | 50 49 41.70 | | | 30 | 50 59 47.51 | |
| | 1.17609 | | | | | 59 59.67 | | | | − 6 | +9.05. |
| 80 d | 9.79887 | | | | | −12.16 | | | | − 16 | |
| | 1.08488 m | | | | | | 59 47.51 | | | + 8.92 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .35 | |
| | | | | | | | | | | − 6.00 | |
| +3.03 $\delta_1$ | | 6 24.92 | | 58 30.5 | | | | | | 58 50.56 | |
| −20.05 | | | | | | | | | | | |
| | +7.7 | 4 7.4 | 25.0 | 34 | 16.20 | 50 48 32.15 | | | 30 | 58 48.87 | E. mm |
| | 0.88649 | | | | | 58 55.11 | | | | − 2 | +8.73 |
| d | 9.79903 | | | | | −6.24 | | | | − 21 | |
| | 0.79544 m | | | | | | 58 48.87 | | | + 8.61 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .35 | |
| | | | | | | | | | | −6.30 | |
| +3.03 $\delta_2$ | | 6 25.00 | | 58 31.2 | | | | | | 58 57.30 | |
| −20.05 | | | | | | | | | | | |
| | +20.5 | XII 5.95 | 6.9 | 39 | 3.20 | 53 45 45.15 | | | 35 | 53 55 47.58 | |
| | 1.31175 | | | | | 56 3.12 | | | | − 10 | +12.23 |
| 48 d | 9.76991 | | | | | −15.54 | | | | − 10 | |
| | 1.19158 m | | | | | | 55 47.58 | | | + 12.03 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 6.60 | |
| +3.01 $\delta_1$ | | 7 18.56 | | 55 33.2 | | | | | | 55 53.21 | |
| −20.04 | | | | | | | | | | | |
| | ~~− 8~~ | 2 16.0 | 3 4.9 | 37 | 20 30.45 | 53 45 ~~17.90~~ 45 | | | 35 | 55 ~~53.90~~ 48 | |
| | +17.2 | | | | 35 | 55 ~~40.86~~ 40.86 | | | | − 7 | +11.83 |
| d | 1.23553 m | | | | | +13.04 | | | | − 12 | |
| | 9.76991 | | | | | | 55 ~~27.77~~ | | | +11.62 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.11536 m | | | | | | | | | + .40 | |
| | | | | | | | | | | − 6.90 | |
| +3.01 $\delta_2$ | | 7 18.64 | | 55 33.8 | | | | | | 55 ~~53.83~~ 53.83 | |
| −20.04 | | | | | | | | | | 3 | |

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Date$_1$ = May 12, 1874 Observer W. A. R. Recorder J. H. M.

299

Date$_2$ = May 14, 1874 Observer Recorder

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| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 08 24 54 08 | | 6.5 | 7 16.2 | 7 40.1 | 43.8 | 47.3 | 50.7 | 54.3 | | | 7 | 47.24 |
| | 07 32.4 | 54 15.0 | 6.7 | 20.2 | | | | | | | | + | 43.62 |
| | κ | | | 23.0 | | | | | | | | − | 8 |
| | | | | 19.8 | | | | | | | | − | 7 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 43.44 | − | 3 |
| | | | | | | | | | | | | 8 | 30.68 |
| | $\alpha_1$ | | | | | | | | | | | − | 2.49 |
| | | | | | | | | | | | | 8 | 28.19 |
| | | | 6.9 | 7 19.1 | 7 38.5 | 42.1 | 45.7 | 49.1 | 52.6 | | | 7 | 45.60 |
| | | | | 25.8 | | | | | | | | + | 45.42 |
| | κ | | | 25.8 | | | | | | | | − | .34 |
| | | | | 22.6 | | | | | | | | − | 8 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 44.97 | − | 3 |
| | | | | | | | | | | | | 8 | 30.57 |
| | $\alpha_2$ | | | | | | | | | | | − | 2.54 |
| | | | | | | | | | | | | 8 | 28.03 |
| | 09 25 50 30 | | 9.2 | 8 19.8 | 8 44.2 | 47.4 | 50.8 | 54.6 | 57.3 | | | 8 | 50.74 |
| | 08 32.9 | 50 36.1 | 8.9 | 22.1 | | | | | | | | + | 43.62 |
| | κ | | | 25.8 | | | | | | | | − | 7 |
| | | | | 22.6 | | | | | | | | − | 6 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 43.47 | − | 2 |
| | | | | | | | | | | | | 9 | 34.21 |
| | $\alpha_1$ | | | | | | | | | | | − | 2.31 |
| | | | | | | | | | | | | 9 | 31.90 |
| | | | 9.0 | 8 19.5 | 8 42.7 | 46.3 | 49.1 | 52.4 | 55.7 | | | 8 | 49.24 |
| | | | | 21.2 | | | | | | | | + | 45.42 |
| | κ | | | 23.9 | | | | | | | | − | .30 |
| | | | | 20.7 | | | | | | | | − | 8 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 45.02 | − | 2 |
| | | | | | | | | | | | | 9 | 34.26 |
| | $\alpha_2$ | | | | | | | | | | | − | 2.27 |
| | | | | | | | | | | | | 9 | 31.99 |
| | 11 12 53 58 | | 6.3 | 10 2.0 | 10 28.3 | 31.4 | 35.1 | 38.6 | 42.2 | | | 10 | 35.18 |
| | 10 20.7 | 54 0.3 | 6.1 | 5.3 | | | | | | | | + | 43.62 |
| | κ | | | 8.7 | | | | | | | | − | 8 |
| | | | | 2.7 | | | | | | | | − | 7 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 43.44 | − | 3 |
| | | | | | | | | | | | | 11 | 18.62 |
| | $\alpha_1$ | | | | | | | | | | | − | 2.50 |
| | | | | | | | | | | | | 11 | 16.12 |
| | | | 6.0 | 9 58.0 | 10 26.6 | 30.1 | 33.6 | 37.2 | 40.6 | | | 10 | 33.62 |
| | | | | 1.3 | | | | | | | | + | 45.41 |
| | κ | | | 4.5 | | | | | | | | − | .34 |
| | | | | 61.3 | | | | | | | | − | 8 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 44.96 | − | 3 |
| | | | | | | | | | | | | 11 | 18.58 |
| | $\alpha_2$ | | | | | | | | | | | − | 2.46 |
| | | | | | | | | | | | | 11 | 16.12 |
| | 12 40 51 53 | | 9.0 | 11 25.6 | 11 57.8 | 1.2 | 4.4 | 7.8 | 11.0 | | | 12 | 4.41 |
| | 11 47.9 | 51 58.2 | 9.2 | 28.6 | | | | | | | | + | 43.62 |
| | κ | | | 32.0 | | | | | | | | − | 8 |
| | | | | 28.7 | | | | | | | | − | 6 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 43.46 | − | 2 |
| | | | | | | | | | | | | 12 | 47.90 |
| | $\alpha_1$ | | | | | | | | | | | − | 2.41 |
| | | | | | | | | | | | | 12 | 45.49 |
| | | | 9.0 | 11 31.5 | 11 56.2 | 59.5 | 2.9 | 6.2 | 9.6 | | | 12 | 2.88 |
| | | | | 34.4 | | | | | | | | + | 45.41 |
| | κ | | | 36.8 | | | | | | | | − | .32 |
| | | | | 34.2 | | | | | | | | − | 8 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 44.99 | − | 2 |
| | | | | | | | | | | | | 12 | 47.87 |
| | $\alpha_2$ | | | | | | | | | | | − | 2.37 |
| | | | | | | | | | | | | 12 | 45.50 |
| | 13 58 54 18 | | 8.8 | 12 46.5 | 13 13.9 | 17.4 | 20.8 | 24.6 | 28.0 | | | 13 | 20.94 |
| | 13 6.9 | 54 23.8 | 8.5 | 50.2 | | | | | | | | + | 43.62 |
| | κ | | | 53.0 | | | | | | | | − | 8 |
| | | | | 49.9 | | | | | | | | − | 7 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 43.44 | − | 3 |
| | | | | | | | | | | | | 14 | 4.38 |
| | $\alpha_1$ | | | | | | | | | | | − | 2.54 |
| | | | | | | | | | | | | 14 | 1.84 |
| | | | 8.8 | 12 48.3 | 13 12.4 | 15.9 | 19.3 | 22.9 | 26.3 | | | 13 | 19.36 |
| | | | | 51.8 | | | | | | | | + | 45.41 |
| | κ | | | 55.3 | | | | | | | | − | .34 |
| | | | | 51.8 | | | | | | | | − | 8 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 44.96 | − | 3 |
| | | | | | | | | | | | | 14 | 4.32 |
| | $\alpha_2$ | | | | | | | | | | | − | 2.51 |
| | | | | | | | | | | | | 14 | 1.81 |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +27.4 | 4 37.2 | 44.5 | 24 | 40.85 | 53 58 7.50 | | | 20 | 54 8 4.79 | |
| 64 d | 1.43775 | | | | | 54 8 25.47 | | | | − .19 | +12.24 |
| | 9.76782 | | | | | −20.68 | | | | − 23 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.31549 m | | | | | | 8 | 4.79 | | + 12.25 | |
| | | | | | | | | | | + .41 | |
| +3.00 $\delta_1$ | | | | | | | | | | − 6.60 | |
| −2.004 | | 8 31.19 | | 7 50.4 | | | | | | 8 10.43 | |
| | +23.1 | 4 40.5 | 57.1 | 24 | 48.80 | 53 57 59.55 | | | 20 | 5.08 | |
| d | 1.36361 | | | | | 54 8 22.51 | | | | − .14 | +11.86 |
| | 9.76782 | | | | | −17.43 | | | | − 24 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.24135 m | | | | | | 8 | 5.08 | | + 11.83 | |
| | | | | | | | | | | + .41 | |
| +3.00 | | | | | | | | | | − 6.90 | |
| −2.004 $\delta_2$ | | 8 31.03 | | 7 50.0 | 48. | | 9 | | | 8 10.04 | |
| | +28.1 | 2 47.0 | 53.1 | 2 | 50.5 | 50 19 58.30 | | | 0 | 50 29 53.25 | |
| 50 d | 1.44871 | | | | | 30 18.27 | | | | − .21 | +8.37 |
| | 9.80351 | | | | | − 23.02 | | | | − .14 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.36214 m | | | | | | 29 | 53.25 | | + 8.40 | |
| | | | | 6 | | | | | | + .32 | |
| +3.00 $\delta_1$ | | 9 34.90 | | 29 38.9 | | | | | | − 5.70 | |
| −2.004 | | | | | | | | | | 29 56.92 | |
| | +28.3 | 2 44.9 | 2.9 | 2 | 53.90 | 50 19 54.45 | | | 0 | 54.75 | |
| d | 1.45179 | | | | | 30 17.41 | | | | − .21 | +8.09 |
| | 9.80351 | | | | | − 22.66 | | | | − .14 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.36522 m | | | | | | 29 | 54.75 | | + 8.12 | |
| | | | | | | | | | | + .32 | |
| +3.00 $\delta_2$ | | | | | | | | | | − 6.00 | |
| −2.004 | | 9 34.99 | | 29 36.8 | | | | | | 29 56.84 | |
| | +29.9 | 4 10.8 | 16.4 | 39 | 14.60 | 53 43 33.75 | | | 35 | 53 53 29.03 | |
| 54 d | 1.47567 | | | | | 53 51.72 | | | | − .23 | +11.94 |
| | 9.77026 | | | | | − 22.69 | | | | − .21 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.35585 m | | | | | | 53 | 29.03 | | + 11.98 | |
| | | | | | | | | | | + .40 | |
| +2.98 $\delta_1$ | | | | | | | | | | − 6.30 | |
| −2.003 | | 11 19.10 | | 53 14.6 | | | | | | 53 27.67 | |
| | +32.3 | 4 7.1 | 24.9 | 39 | 16.00 | 53 43 32.35 | | | 35 | 30.80 | |
| d | 1.50920 | | | | | 53 55.31 | | | | − .27 | +11.58 |
| | 9.77026 | | | | | − 24.51 | | | | − .21 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.88938 m | | | | | | 53 | 30.80 | | + 11.66 | |
| | | | | | | | | | | + .40 | |
| +2.98 $\delta_2$ | | | | | | | | | | − 6.60 | |
| −2.003 | | 11 19.10 | | 53 15.8 | | | | | | 53 35.78 | |
| | +35.7 | 0 48.0 | 53.0 | 40 | 51.50 | 51 41 56.85 | | | 40 | 51 51 46.43 | |
| 56 d | 1.55267 | | | | | 51 52 14.82 | | | | − .34 | +9.84 |
| | 9.79063 | | | | | − 28.39 | | | | − .4 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.45322 m | | | | | | 51 | 4643 | | + 9.83 | |
| | | | | 5 | | | | | | + .39 | |
| +2.98 $\delta_1$ | | | | | | | | | | − 5.70 | |
| −2.002 | | 12 48.47 | | 51 30.6 | | | | | | 51 50.54 | |
| | +28.7 | 0 51.7 | 12.0 | 41 | 1.85 | 51 41 46.50 | | | 40 | 4663 | |
| d | 1.45788 | | | | | 52 9.46 | | | | − .22 | +9.62 |
| | 9.79063 | | | | | −22.83 | | | | − .5 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.35843 m | | | | | | 51 | 4663 | | + 9.50 | |
| | | | | | | | | | | + .39 | |
| +2.98 $\delta_2$ | | | | | | | | | | − 6.10 | |
| −2.002 | | 12 48.48 | | 51 30.1 | | | | | | 51 50.15 | |
| | +31.0 | 0 46.4 | 53.9 | 15 | 50.15 | 54 6 58.20 | | | 15 | 54 16 52.86 | |
| 58 d | 1.49136 | | | | | 17 16.17 | | | | − .25 | +12.55 |
| | 9.76625 | | | | | −23.31 | | | | − .4 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.36753 m | | | | | | 16 | 52.86 | | + 12.41 | |
| | | | | | | | | | | + .43 | |
| +2.96 $\delta_1$ | | | | | | | | | | − 6.20 | |
| −2.002 | | 14 4.80 | | 16 39.2 | | | | | | 16 59.21 | |
| | +27.6 | 0 48.0 | 9.1 | 15 | 58.55 | 54 6 49.80 | | | 15 | 52.01 | |
| d | 1.44091 | | | | | 17 12.76 | | | | − .20 | +12.17 |
| | 9.76625 | | | | | −20.75 | | | | − .5 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.31708 m | | | | | | 16 | 52.01 | | + 11.99 | |
| | | | | | | | | | | + .43 | |
| +2.96 | | | | | | | | | | − 6.60 | |
| −2.002 $\delta_2$ | | 14 4.77 | | 16 37.6 | | | | | | 16 57.58 | |

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298

Date$_1$ = May 12, 1874 Observer W. A. R. Recorder J. H. M.

299

Date$_2$ = May 14, 1874 Observer Recorder

60.

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | h 15 m 18 s | ° ′ ″ 50 57 | 9.5 | m s 14 14.9 | m s 14 31.4 | 34.6 | 38.0 | 41.2 | 44.3 | | | m 14 | s 37.40 |
| | 14 24.6 | 51 2.3 | 9.5 | 18.3 | | | | | | | | | 90 |
| κ | | | | 20.4 | | | | | | | | + | 43.62 |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | — | 7 |
| | | | | | | | | | | | | — | 6 |
| $a_1$ | | | | | | | | | | | + 43.47 | — | 2 |
| | | | | | | | | | | | | 15 | 21.37 |
| | | | | | | | | | | | | — | 2.37 |
| | | | | | | | | | | | | 15 | 19.00 |
| | | | 9.6 | 13 58.2 | 14 29.6 | 33.2 | 36.4 | 39.6 | 42.0 | | | 14 | 36.88 |
| | | | | 1.4 | | | | | | | | + | 45.41 |
| κ | | | | 4.7 | | | | | | | | — | .31 |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | 61.4 | | | | | | | | — | 8 |
| | | | | | | | | | | | + 45.00 | — | 2 |
| $a_2$ | | | | | | | | | | | | 15 | 21.38 |
| | | | | | | | | | | | | — | 2.34 |
| | | | | | | | | | | | | 15 | 19.04 |
| | 16 30 | 54 04 | 8.8 | 15 20.4 | 15 47.0 | 50.4 | 54.0 | 57.5 | 0.9 | | | 15 | 53.96 |
| 15 | 40.4 | 54 10.1 | 9.2 | 23.0 | | | | | | | | + | 43.62 |
| κ | | | | 26.8 | | | | | | | | — | 8 |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | 23.4 | | | | | | | | — | 7 |
| | | | | | | | | | | | + 43.44 | — | 3 |
| $a_1$ | | | | | | | | | | | | 16 | 37.40 |
| | | | | | | | | | | | | — | 2.54 |
| | | | | | | | | | | | | 16 | 34.86 |
| | | | 8.8 | 15 16.8 | 15 48.4 | 48.8 | 52.5 | 55.8 | 59.4 | | | 15 | 52.38 |
| | | | | 21.1 | | | | | | | | + | 45.41 |
| κ | | | | 24.0 | | | | | | | | — | .34 |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | 24.4 | | | | | | | | — | 8 |
| | | | | | | | | | | | + 44.96 | — | 3 |
| $a_2$ | | | | | | | | | | | | 16 | 37.34 |
| | | | | | | | | | | | | — | 2.50 |
| | | | | | | | | | | | | 16 | 34.84 |
| | 18 02 | 54 35 | 9.3 | 16 51.2 | 17 30.7 | 34.3 | 37.7 | 41.4 | 44.8 | | | 17 | 27.78 |
| 17 | 12.4 | 54 41.0 | 9.1 | 54.4 | | | | | | | | + | 43.62 |
| κ | | | | 57.5 | | | | | | | | — | 8 |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | 55.1 | | | | | | | | — | 7 |
| | | | | | | | | | | | + 43.44 | — | 3 |
| $a_1$ | | | | | | | | | | | | 18 | 11.22 |
| | | | | | | | | | | | | — | 2.58 |
| | | | | | | | | | | | | 18 | 8.64 |
| | | | 9.1 | 16 57.4 | 17 19.0 | 22.6 | 26.1 | 29.7 | 33.4 | | | 17 | 26.16 |
| | | | | 54.9 | | | | | | | | + | 45.41 |
| κ | | | | 58.3 | | | | | | | | — | .35 |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | 54.7 | | | | | | | | — | 8 |
| | | | | | | | | | | | + 44.95 | — | 3 |
| $a_2$ | | | | | | | | | | | | 18 | 11.11 |
| | | | | | | | | | | | | — | 2.54 |
| | | | | | | | | | | | | 18 | 8.57 |
| | 20 22 | 51 25 | 9.5 | 19 47.3 | 19 35.7 | 39.3 | 42.8 | 45.5 | 49.3 | | | 19 | 42.52 |
| 19 | 28.0 | 51 30.2 | 9.4 | | | | | | | | | + | 43.62 |
| κ | | | | | | | | | | | | — | 7 |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | — | 6 |
| | | | | | | | | | | | + 43.47 | — | 2 |
| $a_1$ | | | | | | | | | | | | 20 | 25.99 |
| | | | | | | | | | | | | — | 2.42 |
| | | | | | | | | | | | | 20 | 23.57 |
| | | | 9.2 | 19 16.0 | 19 34.4 | 37.9 | 41.1 | 44.4 | 47.6 | | | 19 | 41.08 |
| | | | | 19.4 | | | | | | | | + | 45.41 |
| κ | | | | 22.2 | | | | | | | | — | .31 |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | 19.2 | | | | | | | | — | 8 |
| | | | | | | | | | | | + 45.00 | — | 2 |
| $a_2$ | | | | | | | | | | | | 20 | 26.08 |
| | | | | | | | | | | | | — | 2.39 |
| | | | | | | | | | | | | 20 | 23.69 |
| | 22 48 | 51 02 | 9.5 | 21 39.2 | 22 7.7 | 11.1 | 14.4 | 17.5 | 20.9 | | | 22 | 14.32 |
| 21 | 58.6 | 51 7.3 | 9.0 | 42.4 | | | | | | | | + | 43.62 |
| κ | | | | 44.7 | | | | | | | | — | 7 |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | 42.1 | | | | | | | | — | 6 |
| | | | | | | | | | | | + 43.47 | — | 2 |
| $a_1$ | | | | | | | | | | | | 22 | 57.79 |
| | | | | | | | | | | | | — | 2.42 |
| | | | | | | | | | | | | 22 | 55.37 |
| | | | 9.2 | 21 45.2 | 22 6.3 | 9.6 | 12.8 | 16.2 | 19.2 | | | 22 | 12.82 |
| | | | | 48.2 | | | | | | | | + | 45.41 |
| κ | | | | 51.5 | | | | | | | | — | .31 |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | 48.3 | | | | | | | | — | 8 |
| | | | | | | | | | | | + 45.00 | — | 2 |
| $a_2$ | | | | | | | | | | | | 22 | 57.82 |
| | | | | | | | | | | | | — | 2.38 |
| | | | | | | | | | | | | 22 | 55.44 |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | S | x′ 0.3′ | 7.0″ | 36 | 3.65 | 50 ~~45~~ 46 44.70 | | | 35′ | 50 ~~55~~ 56 46.44 | |
| | +20.0 | 2 | | 37 | | ~~59~~ 2.67 | | | | − .11 | +9.05 |
| 50 d | 1.30103 | | | | | 56 −16.23 | | | | − .05 | |
| | 9.79934 | | | | | | | | | + 8.87 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.21029$_n$ | | | | | | | | | + .34 | |
| | | | | | | | | | | − 5.30 | |
| +2.96 $\delta_1$ | | 15 21.96 | | 55 30.2 | | | | | | ~~56~~ 50.19 | |
| −20.01 | | | | | | | | | | 55 | |
| 19.00 | | | | | | | | | | | |
| | +35.0 | 1 47.9 | 6.6 | 36 | 57.25 | 50 45 51.10 | | | 35 | 50 55 45.65 | |
| | 1.54407 | | | | | 56 14.06 | | | | − .33 | +8.46 |
| d | 9.79950 | | | | | −28.41 | | | | − .10 | |
| | 1.45349$_n$ | | | | | | 55 45.65 | | | + 8.35 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .34 | |
| | | | | | | | | | | − 5.60 | |
| +2.96 $\delta_2$ | | 15 22.00 | | 55 28.5 | +.40 | | | | | 55 48.51 | |
| −20.01 | | | | | | | | | | | |
| | +30.6 | 4 48.0 | 54.9 | 29 | 51.45 | 53 52 56.90 | | | 25 | 54 2 57.73 | |
| | 1.48572 | | | | | 54 3 14.87 | | | | − .25 | +12.08 |
| 58 d | 9.76870 | | | | | −23.14 | | | | − .24 | |
| | 1.36434$_n$ | | | | | | 2 51.73 | | | + 12.17 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 6.00 | |
| +2.94 $\delta_1$ | | 16 37.80 | | 2 37.4 | | | | | | 2 57.41 | |
| −20.00 | | | | | | | | | | | |
| | +31.8 | 4 46.0 | 5.0 | 29 | 55.00 | 53 52 58.35 | | | 25 | 52.26 | |
| | 1.50243 | | | | | 54 3 16.31 | | | | − .27 | +11.63 |
| d | 9.76870 | | | | | −24.05 | | | | − .24 | |
| | 1.38105$_n$ | | | | | | 2 52.26 | | | + 11.74 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 6.30 | |
| +2.94 $\delta_2$ | | 16 37.78 | | 2 37.6 | | | | | | 2 57.59 | |
| −20.00 | | | | | | | | | | | |
| | +32.7 | 3 23.2 | 30.6 | 58 | 26.90 | 54 24 21.45 | | | 55 | 54 34 15.01 | |
| | 1.51455 | | | | | 34 39.42 | | | | − .28 | +12.73 |
| 62 d | 9.76307 | | | | | −24.41 | | | | − .17 | |
| | 1.38754$_n$ | | | | | | 34 15.01 | | | + 12.29 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .46 | |
| | | | | | | | | | | − 6.00 | |
| +2.92 $\delta_1$ | | 18 11.56 | | 34 1.8 | | | | | | 34 21.74 | |
| −19.99 | | | | | | | | | | | |
| | +31.3 | 3 23.9 | 41.9 | 58 | 32.90 | 54 24 15.45 | | | 55 | 15.05 | |
| | 1.49554 | | | | | 34 38.41 | | | | − .25 | +12.31 |
| d | 9.76307 | | | | | −23.36 | | | | − .18 | |
| | 1.38853$_n$ | | | | | | 34 15.05 | | | + 12.28 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .46 | |
| | | | | | | | | | | − 6.30 | |
| +2.92 $\delta_2$ | | 18 11.49 | | 34 1.1 | | | | | | 34 21.06 | |
| −19.99 | | | | | | | | | | | |
| | −4.8 | 4 21.7 | 28.8 | 9 | 25.25 | 51 13 23.10 | | | 5 | 37 23 44.93 | |
| | 0.68124$_n$ | | | | | 23 41.07 | | | | − .1 | +9.49 |
| 44 d | 9.79510 | | | | | + 3.86 | | | | − .22 | |
| | 0.58626 | | | | | | 23 44.93 | | | + 9.35 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .37 | |
| | | | | | | | | | | − 5.80 | |
| +2.92 $\delta_1$ | | 20 26.49 | | 23 28.6 | | | | | | 23 48.62 | |
| −19.98 | | | | | | | | | | | |
| | +21.9 | 3 59.3 | 17.3 | 9 | 8.30 | 51 13 40.05 | | | 5 | 45.41 | |
| | 1.34044 | | | | | 24 3.01 | | | | − .13 | +9.06 |
| d | 9.79570 | | | | | −17.60 | | | | − .21 | |
| | 1.24546$_n$ | | | | | | 23 45.41 | | | + 9.03 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .37 | |
| | | | | | | | | | | − 6.20 | |
| +2.92 $\delta_2$ | | 20 26.61 | | 23 28.3 | | | | | | 23 48.27 | |
| −19.98 | | | | | | | | | | | |
| | +32.2 | 1½ 2.7 | 11.0 | 3½ | 6.85 | 50 51 41.50 | | | 30 | 51 ~~X~~0 33.39 | |
| | 1.50786 | | | | | 51 1 59.47 | | | | − .25 | ~~+8.99~~ |
| 50 d | 9.79856 | | | | | −26.08 | | | | − .16 | |
| | 1.41634$_n$ | | | | | | 1 33.39 | | | + 8.97 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .35 | |
| | | | | | | | | | | − 5.50 | |
| +2.91 $\delta_1$ | | 22 58.28 | | 0 16.9 | | | | | | 0 36.88 | |
| −19.95 | | | | | | | | | | | |
| | +24.5 | 2 7.9 | 25.0 | 32 | 16.45 | 50 50 31.90 | | | 30 | 0 35.01 | |
| | 1.38917 | | | | | 51 0 54.86 | | | | − .15 | +8.73 |
| d | 9.79872 | | | | | −19.85 | | | | − .11 | |
| | 1.29781$_n$ | | | | | | 0 35.01 | | | + 8.64 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .35 | |
| | | | | | | | | | | − 5.90 | |
| +2.91 $\delta_2$ | | 22 58.35 | | 0 17.9 | | | | | | D 37.84 | |
| −19.95 | | | | | | | | | | | |

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1874phae.proj.15888

298

Date$_1$ = May 12, 1874 Observer W. A. R.
Recorder J. H. M.

299

Date$_2$ = May 14, 1874 Observer
Recorder

62

Run

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 24 37 | 61 41 | 8.0 | 23 22.5 | 23 55.4 | 58.7 | 2.1 | 5.3 | 8.8 | | | 24 2.06 | |
| | 23 46.1 | 51 41.0 | 7.9 | 24.9 | | | | | | | | + 43.62 | |
| | κ | | | 24.8 | | | | | | | | − .8 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 25.1 | | | | | | | + 43.45 | − .7 | |
| | $\alpha_1$ | | | | | | | | | | | − .2 | |
| | | | | | | | | | | | | 24 45.52 | |
| | | | | | | | | | | | | − 2.47 | |
| | | | | | | | | | | | | 24 43.04 | |
| | | | 7.6 | 23 24.0 | 23 53.5 | 57.1 | 0.5 | 3.8 | 7.2 | | | 24 0.48 | |
| | | | | 24.6 | | | | | | | | + 45.41 | |
| | κ | | | 30.5 | | | | | | | | − .32 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 27.4 | | | | | | | + 44.91 | − .8 | |
| | $\alpha_2$ | | | | | | | | | | | − .2 | |
| | | | | | | | | | | | | 24 45.47 | |
| | | | | | | | | | | | | − 2.43 | |
| | | | | | | | | | | | | 24 43.04 | |
| | κ | | | | | | | | | | | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | Single Observations | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| 11 | 41 50 | 53 56 | 9.8 | 41 23.2 | 41 6.3 | 9.8 | 13.4 | 16.8 | 20.6 | | | 41 13.38 | |
| | 40 54.7 | 54 1.6 | 9.5 | 25.7 | | | | | | | | + 45.43 | |
| May 14 | κ | | | 27.4 | | | | | | | | − .34 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 25.5 | | | | | | | + 44.99 | − .8 | |
| | $\alpha_2$ | | | | | | | | | | | − .2 | |
| | | | | | | | | | | | | 41 58.34 | |
| | | | | | | | | | | | | − 2.26 | |
| | | | | | | | | | | | | 41 56.11 | |
| 11 | 48 08 | 54 10 | 9.9 | 47 24.3 | 47 25.4 | 29.0 | 32.4 | 36.3 | 39.4 | | | 47 32.50 | |
| | 47 14.3 | 54 9.6 | 9.4 | 27.6 | | | | | | | | + 45.42 | |
| May 14 | κ | 15.1 | | 31.0 | | | | | | | | − .34 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 27.6 | | | | | | | + 44.98 | − .8 | |
| | $\alpha_1$ | | | | | | | | | | | − .24 | |
| | | | | | | | | | | | | 48 17.46 | |
| | | | | | | | | | | | | − 2.31 | |
| | | | | | | | | | | | | 48 15.17 | |
| | κ | | | | | | | | | | | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |

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1874phae.proj.1588R



Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 58 | +37.0 | 1 -57.6 | 7.2 | 52 | 2.90 | 51 30 45.45 | | | 50 | 51 40 33.87 | E mm |
| d | 1.56820 | | | | | 41 3.42 | | | | − .36 | +9.56 |
| | 9.79240 | | | | | −29.55 | | | | − .10 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.47052 m | | | | | | 40 33.87 | | | + 9.64 | |
| | | | | | | | | | | + .38 | |
| $\delta_1$ | | | | | | | | | | − 4.80 | |
| | | | | | | | | | | 40 38.63 | |
| | +33.1 | 1 0.7 | 19.7 | 51 | 10.30 | 51 31 38.05 | | | 50 | 41 34.59 | |
| d | 1.51983 | | | | | 42 1.01 | | | | − .29 | +9.35 |
| | 9.79224 | | | | | −26.42 | | | | − .6 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.42199 m | | | | | | 41 34.59 | | | + 9.32 | |
| | | | | | | | | | | + .38 | |
| $\delta_2$ | | | | | | | | | | − 5.20 | |
| | | | | | | | | | | 41 38.74 | |
| d | | | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | −12! | | | | | | | | | | |
| 1.08279 | + ~~2.79~~ | 2 58.7 | 16.9 | 38 | 7.80 | 53 44 40.55 | | | 85 | 53 ~~54 27.7~~ 55 | 12.69 |
| 977009 | 1.68134 | | | | | 55 3.51 | | | | − ~~60.4~~ 60.4 | +11.~~26~~ |
| 0.56180 | 9.77009 | | | | | ~~−36.34~~ | | | | − .16 | 79 |
| ((δ) − D) $\frac{d'}{100}$ | 1.50035 m | | | | | + 9.18 | 54 27.17 | | | + 11.59 | |
| +3.22 $\delta_2$ | | 41 59.33 | | 54 55.8 | | | | | | + .40 | |
| −19.99 | | | | | | | | | | − 8.70 | |
| | | | | | | | | | | ~~54 29.70~~ | 55 15.78 |
| | + 4.9 | 4 18.9 | 37.6 | 24 | 28.25 | 53 58 20.10 | | | 20 | 54 8 39.36 | |
| d | 0.69020 | | | | | 54 8 48.06 | | | | − 1 | +12.01 |
| | 9.76765 | | | | | −3.70 | | | | − .22 | |
| ((δ) − D) $\frac{d'}{100}$ | 0.56777 m | | | | | | 8 39.36 | | | + 11.83 | |
| | | | | | | | | | | + .41 | |
| +3.17 $\delta_1$ | | 48 18.34 | | 8 22.9 | | | | | | − 8.40 | |
| −20.03 | | | | | | | | | | 8 42.97 | |
| d | | | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |

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1874phae.proj.15888

Date$_1$ = May 19, 1874 — Observer W. A. R — Recorder G. F. H.

$n$ = −.18 $c$ = −.08

Date$_2$ = May 26, 1874 — Observer — Recorder

$n$ = −.28

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 5h 59m 05s | 52° 39′ | 7.9 | 57m 53.5s | 58m 17.0s | 20.4 | 23.8 | 27.2 | 30.6 | | | 57 23.80 | |
| | 58 12.0 | 52 44.4 | 8.6 | | | | | | | | | + 48.16 | |
| | κ | | 7.2 | | | | | | | | | − .23 | |
| | | | | | | | | | | | | − .13 | |
| | | | | | | | | | | | + 47.78 | − 2 59 11.58 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 57 54.5 | 58 17.8 | 21.3 | 24.7 | 28.0 | 31.5 | | | 58 24.66 − 2.21 | |
| 53 23 | | | | | | | | | | | | + 48.16 59 9.37 | |
| 55 23 | $\alpha_1$ | | | | | | | | | | | − .23 | |
| 56 38 | | | | | | | | | | | | − .13 | |
| | | | | | | | | | | | | − 2 59 12.44 | |
| 58 0 | | | 8.6 | 57 43.7 | 58 13.6 | 17.1 | 20.5 | 23.8 | 27.2 | | | 58 20.44 − 2.21 | |
| 0 22 | | | 8.8 | | | | | | | | | + 57.36 59 10.23 | |
| 1 53 | κ | | | | | | | | | | | − .26 | |
| 2 59 | | | | | | | | | | | + 50.98 | − 2 59 11.42 | |
| 3 57 | ((δ) − D) $\frac{\kappa'}{100}$ | | | 57 44.7 | 14.5 | 18.0 | 21.3 | 24.6 | 28.1 | | | 58 21.30 − 2.07 | |
| 6 0 | | | | | | | | | | | | + 57.36 59 9.35 | |
| | $\alpha_2$ | | | | | | | | | | | − .26 | |
| | | | | | | | | | | | + 50.98 | − 2 59 12.28 | |
| 12 | 6h 06m 54s | 52° 01′ | 9.0 | 5 54.5 | 6 7.5 | 10.9 | 14.4 | 17.5 | 20.9 | | | 6 14.24 − 2.07 | |
| 06 | 2.2 | 52 7.0 | 8.7 | 57.5 | | | | | | | | + 48.16 10.21 | |
| | κ | | | 6.3 | | | | | | | | − .23 | |
| | | | | 57.4 | | | | | | | | − .13 | |
| | | | | | | | | | | | | − 2 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 47.78 | 7 2.02 | |
| | | | | | | | | | | | | − 2.25 | |
| | $\alpha_1$ | | | | | | | | | | | 6 59.677 | |
| | | | 9.0 | 5 39.0 | 6 4.2 | 7.6 | 10.9 | 14.4 | 17.6 | | | 6 10.94 | |
| | | | | 41.6 | | | | | | | | + 57.36 | |
| | κ | | | 44.4 | | | | | | | | − .36 | |
| | | | | 41.7 | | | | | | | | − 2 | |
| | | | | | | | | | | | + 50.98 | 7 1.92 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | − 2.10 | |
| | | | | | | | | | | | | 6 59.82 | |
| | $\alpha_2$ | | | | | | | | | | | | |
| 08 | 10 | 52 42 | 8.3 | 6 51.0 | 7 23.9 | 27.3 | 30.7 | 34.2 | 37.6 | | | 7 30.74 | |
| 07 | 19.0 | 52 48.0 | 8.3 | 54.2 | | | | | | | | + 48.16 | |
| | κ | | | 56.9 | | | | | | | | − .24 | |
| | | | | 54.0 | | | | | | | | − .13 | |
| | | | | | | | | | | | + 47.77 | − 2 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 8 18.51 | |
| | | | | | | | | | | | | − 2.29 | |
| | $\alpha_1$ | | | | | | | | | | | 8 16.22 | |
| | | | 8.5 | 6 54.5 | 7 21.5 | 24.0 | 27.4 | 30.7 | 34.4 | | | 7 27.40 | |
| | | | | 54.9 | | | | | | | | + 57.36 | |
| | κ | | | 0.8 | | | | | | | | − 36 | |
| | | | | 57.6 | | | | | | | | − 2 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 50.98 | 8 18.38 | |
| | | | | | | | | | | | | − 2.15 | |
| | $\alpha_2$ | | | | | | | | | | | 8 16.23 | |
| 09 | 07 | 53 26 | 8.2 | 8 0.6 | 8 19.5 | 23.0 | 26.3 | 29.7 | 33.8 | | | 8 26.36 | |
| 08 | 16.3 | 53 31.5 | 8.3 | 5.2 | | | | | | | | + 48.17 | |
| | κ | | | 9.6 | | | | | | | | − .24 | |
| | | | | 7.5 | | | | | | | | − .13 | |
| | | | | | | | | | | | + 47.77 | − 3 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 9 14.13 | |
| | | | | | | | | | | | | − 2.32 | |
| | $\alpha_1$ | | | | | | | | | | | 9 11.81 | |
| | | | 7.8 | 8 0.5 | 8 16.0 | 19.4 | 23.1 | 26.3 | 30.0 | | | 8 22.96 | |
| | | | | 3.3 | | | | | | | | + 57.36 | |
| | κ | | | 9.3 | | | | | | | | − .38 | |
| | | | | .7 | | | | | | | | − 3 | |
| | | | | | | | | | | | + 50.95 | 9 13.91 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | − 2.18 | |
| | $\alpha_2$ | | | | | | | | | | | 9 11.73 | |
| 11 | 32 | 53 55 | 6.0 | 10 9.6 | 10 23.6 | 27.3 | 30.8 | 34.2 | 37.9 | | | 10 30.76 | |
| 10 | 42.7 | 54 0.3 | 9.3 | 12.9 | | | | | | | | + 48.17 | |
| | κ | 20.7 | 8.1 | 15.9 | | | | | | | | − 25 | |
| | | | | 12.8 | | | | | | | + 47.75 | − 51.36 − 2.37 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 11 10.8 | 10 44.4 | 47.7 | 51.2 | 55.1 | 58.4 | | | 10 48.17 11 16.14 | |
| 13 25 | 10 40.7 | 54 0.3 | | 13.9 | | | | | | | | − .25 | |
| 14 4 | $\alpha_1$ | | | 18.2 | | | | | | | + 47.75 | − 3 | |
| | | | | 14.3 | | | | | | | | 11 39.11 | |
| | 10 20.7 | 54 0.3 | 6.5 | 10 4.7 | 10 20.4 | 24.0 | 27.5 | 31.0 | 34.5 | | | 10 27.48 − 2.37 | |
| | | | | 8.8 | | | | | | | | + 51.36 36.74 | |
| | κ | | | 11.4 | | | | | | | | − .38 | |
| | | | | 8.3 | | | | | | | + 50.95 | − 3 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 11 18.43 | |
| | | | | | | | | | | | | − 2.22 | |
| | $\alpha_2$ | | | | | | | | | | | 11 16.21 | |

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1874phae.proj.15900



Runs $R_{eq}$ = +10 ~~10.18~~ 15.32 − 04 May 19. May 26, 1765 −02

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | s | 4′ 42.8 | 45.7 | 54 | 44.25 | 52 28 4.10 | | | 50 | − 0.86 | − 0.86 |
| | +30.3 | 4 42.8 | 45.7 | 54 | 44.25 | 52 28 4.10 | | | 50 | 52 37 56.60 | 37 56.67 |
| 3.36 d | 1.48144 | | 52 37 56.60 | 52 37 56.60 | | 38 20.28 | 37 56.60 | | | − 24 | − 24 |
| 36 | 9.78313 | 1.37449m | +10.34 | +10.34 | | 38 20.28 | | | | − 19 | − 19 |
| +3.08 ((δ) − D) d′/100 | +30.2 | | | | | − 23.68 | | | | +10.37 | + 10.37 |
| −2.005 | 1.48001 | | | | | − 23.61 | 37 56.67 | | | + .40 | + .40 |
| δ1 | 9.78313 | 59 12.45 | | 37 38.0 | | | | | | − 8.00 | − 8.00 |
| +3.08 | 1.37306m | 13.31 | | 38.1 | | | | | | 37 58.08 | 37 58.15 |
| −2.005 | +36.7 | 4 37.9 | 43.8 | 54 | 40.85 | 52 28 7.50 | | | 50 | 37 56.46 | 56.54 |
| d | 1.56467 | 4 37.9 | 43.8 | 54 | 40.85 | 52 28 7.50 | | | 50 | − .36 | − .36 |
| | 9.78313 | 52 37 56.46 | 52 37 56.54 | | | 38 25.15 | 37 56.46 | | | − 9 | − 9 |
| +3.08 ((δ) − D) d′/100 | 1.45772m | +10.22 | +10.22 | | | 38 25.15 | | | | +10.27 | + 10.27 |
| −2.005 | +36.6 | | | | | − 28.69 | | | | + .40 | + .40 |
| δ2 | 1.56348 | | | | | − 28.61 | 37 56.54 | | | − 8.90 | − 8.90 |
| +3.08 | 9.78313 | 59 12.43 | 13.29 | 37 37.4 | | | | | | 37 57.78 | 37 ~~57.86~~ |
| −2.005 | 1.45653m | ~~15.36~~ | | 37.8 | | | | | | | |
| 30 | +16.8 | 2 6.1 | 8.9 | 32 | 7.00 | 51 50 41.35 | | | 30 | 52 0 44.21 | |
| d | 1.22531 | | | | | 52 0 57.53 | | | | − 8 | +9.98 |
| | 9.78918 | | | | | − 13.32 | | | | − 8 | |
| ((δ) − D) d′/100 | 1.12441m | | | | | | 0 44.21 | | | + 9.74 | |
| +3.02 | | | | | | | | | | + .40 | |
| −2.004 δ1 | | 7 2.79 | 0 | 26.0 | | | | | | − 7.30 | |
| | | | | | | | | | | 0 ~~46.89~~ 46.03 | |
| | +29.2 | 1 55.5 | 1.7 | 31 | 5860 | 51 50 49.75 | | | 30 | 44.25 | |
| | 1.46588 | | | | | 52 1 9.40 | | | | − .22 | +9.77 |
| d | 9.78918 | | | | | − 23.15 | | | | − .4 | |
| ((δ) − D) d′/100 | 1.36448m | | | | | | 0 44.25 | | | + 9.63 | |
| +3.02 | | | | | | | | | | + .40 | |
| −2.004 δ2 | | 7 2.84 | 0 | 25.7 | | | | | | − 8.30 | |
| | | | | | | | | | | 0 45.72 | |
| | +36.7 | 1 40.1 | 44.5 | 51 | 42.30 | 52 31 6.05 | | | 50 | 52 40 53.57 | |
| 34 | 1.56467 | | | | | 41 22.23 | | | | − .36 | +10.40 |
| d | 9.78263 | | | | | − 28.66 | | | | − .7 | |
| | 1.45722m | | | | | | 40 53.57 | | | + 10.43 | |
| ((δ) − D) d′/100 | | | | | | | | | | + .40 | |
| +3.01 δ1 | | 8 19.23 | | 40 35.7 | | | | | | − 7.40 | |
| −2.004 | | | | | | | | | | 40 ~~56.57~~ 53.41 | |
| | +29.8 | 1 46.9 | 51.9 | 51 | 49.40 | 52 30 58.95 | | | 50 | 53.33 | |
| d | 1.47422 | | | | | 41 16.60 | | | | − 24 | +10.45 |
| | 9.78263 | | | | | − 23.27 | | | | − 3 | |
| ((δ) − D) d′/100 | 1.36677m | | | | | | 40 53.33 | | | + 10.32 | |
| +3.01 | | | | | | | | | | + .40 | |
| −2.004 δ2 | | 8 19.24 | | 40 35.3 | | | | | | − 8.40 | |
| | | | | | | | | | | 40 55.38 | |
| | +21.9 | 2 43.0 | 46.9 | 7 | 44.95 | 53 15 3.40 | | | 5 | 53 25 2.77 | |
| 40 | 1.34044 | | | | | 25 19.68 | | | | − 13 | +11.35 |
| d | 9.77524 | | | | | − 16.81 | | | | − 11 | |
| ((δ) − D) d′/100 | 1.22560m | | | | | | 25 2.77 | | | + 11.19 | |
| +3.00 | | | | | | | | | | + .40 | |
| −2.004 δ1 | | 9 14.81 | | 24 45.7 | | | | | | − 7.50 | |
| | | | | | | | | | | 25 ~~6.62~~ 5.76 | |
| | +19.3 | 2 47.1 | 51.2 | 7 | 49.15 | 53 14 59.20 | | | 5 | 2.03 | |
| d | 1.28556 | | | | | 25 16.85 | | | | − 9 | +11.33 |
| | 9.77524 | | | | | − 14.82 | | | | − 5 | |
| ((δ) − D) d′/100 | 1.17072m | | | | | | 25 2.03 | | | + 11.07 | |
| +3.00 | | | | | | | | | | + .40 | |
| −2.004 δ2 | | 9 14.73 | | 24 44.8 | .86 | | | | | − 8.50 | |
| | | | | | | | | | | 25 ~~4.86~~ ~~4.00~~ | 54 ~~3.44~~ 3.45 |
| | +18.0 | 4 17.0 | 19.9 | 39 | 18.45 | 53 43 ~~29.90~~ 30.76 | | | 35 | 53 53 32.42 | 53 28.90 |
| 28 | 1.25527 | 4 17.0 | 19.9 | 39 | 18.45 | 53 43 29.90 | | | 35 | − 8 | − 14 |
| d | 9.77026 | 1.13545m | | | 1760 | 53 46.08 | 53 32.42 | | | − 17 | − 17 |
| +2.98 | −22.9 | 53 53 32.42 | 53 | 53 28.70 | | 53 46.08 | | | | +11.69 | + 11.69 |
| −2.003 ((δ) − D) d′/100 | 1.35984 | +11.84 | | +11.84 | | − 13.66 | | | | + .40 | + .40 |
| | 9.77026 | | | | | + 17.38 | 53 28.70 | | | − 7.50 | − 7.50 |
| +2.98 δ1 | 1.24002 | 11 19.12 | | 53 16.7 | | | | | | 53 ~~36.76~~ OK | 53 ~~32.95~~ OK |
| −2.003 | | ~~49.09~~ 37.96 | | ~~47.7~~ 37.5 | | | | | | ~~35.96~~ | |
| | +19.2 | 4 18.0 | 21.7 | 39 | 19.85 | 53 43 28.50 | | | 35 | 53 31.58 | 14 7.98 3 |
| | 1.28330 | | | | | 53 46.15 | | | | − 9 | +11.88 |
| d | 9.77026 | | | | | − 14.57 | | | | − 9 | |
| ((δ) − D) d′/100 | 1.12348m | | | | | | 53 31.58 | | | + 11.66 | |
| +2.98 | | | | | | | | | | + .40 | |
| −2.003 δ2 | | 11 19.19 | | 53 14.9 | | | | | | − 8.50 | |
| | | | | | | | | | | 53 34.96 ~~.10~~ | |

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300

Date$_1$ = May 19, 1874 Observer W. A. R Recorder G. H. M

301

Date$_2$ = May 26, 1874 Observer Recorder

66

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12h | | | m s | m s | s | s | s | s | | | m | s |
| | 15 59.6 | 50 54 / 50 57.7 | 9.2 / 9.2 | 14 55.5 | 15 15.1 | 18.4 | 21.5 | 29.9 | 28.0 | | | 15 | 21.58 |
| | | | | 58.8 | | | | | | | | + | 48.17 |
| | | | | 1.5 | | | | | | | | − | .22 |
| | | | | 58.6 | | | | | | | | − | .13 |
| κ | | | | | | | | | | | | − | 2 |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | + 47.80 | 16 | 9.38 |
| $\alpha_1$ | | | | | | | | | | | | − | 2.26 |
| | | | | | | | | | | | | 16 | 7.12 |
| | | | 9.3 | 14 49.0 | 15 11.8 | 15.0 | 18.2 | 21.5 | 24.8 | | | 15 | 14.26 |
| | | | | 52.4 | | | | | | | | + | 51.36 |
| | | | | 56.5 | | | | | | | | − | 34 |
| κ | | | | 52.6 | | | | | | | | − | 2 |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | + 51.00 | 16 | 9.26 |
| $\alpha_2$ | | | | | | | | | | | | − | 2.12 |
| | | | | | | | | | | | | 16 | 7.14 |
| | 17 07 / 16 16.7 | 50 17 / 50 23.1 | 8.8 / 9.0 | 15 59.9 | 16 21.9 | 25.4 | 28.5 | 31.7 | 35.0 | | | 16 | 28.50 |
| | | | | 3.5 | | | | | | | | + | 48.17 |
| | | | | 6.8 | | | | | | | | − | .22 |
| | | | | 63.4 | | | | | | | | − | .12 |
| κ | | | | | | | | | | | | − | 2 |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | + 47.81 | 17 | 16.32 |
| $\alpha_1$ | | | | | | | | | | | | − | 2.24 |
| | | | | | | | | | | | | ~~17~~ | ~~14.07~~ |
| | | | 9.0 | 15 57.5 | 16 18.6 | 21.7 | 25.0 | 28.3 | 31.5 | | | 16 | 28.02 |
| | | | | 0.8 | | | | | | | | + | 51.36 |
| | | | | 3.3 | | | | | | | | − | .34 |
| κ | | | | 60.5 | | | | | | | | − | 2 |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | + 51.00 | 17 | 16.02 |
| $\alpha_2$ | | | | | | | | | | | | − | 2.10 |
| | | | | | | | | | | | | 17 | 13.92 |
| | 18 04 / 17 15.0 | 50 51 / 50 56.7 | 9.2 / 9.3 | 17 43 | 17 19.3 | 22.6 | 25.5 | 29.0 | 32.2 | | | 17 | 25.72 |
| | | | | 6.6 | | | | | | | | + | 48.17 |
| | | | | 11.6 | | | | | | | | − | .22 |
| | | | | 7.5 | | | | | | | | − | .13 |
| κ | | | | | | | | | | | | − | 2 |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | + 47.80 | 18 | 13.52 |
| $\alpha_1$ | | | | | | | | | | | | − | 2.26 |
| | | | | | | | | | | | | 18 | 11.26 |
| | | | 9.4 | 17 05.4 | 17 15.9 | 19.2 | 22.3 | 25.5 | 28.9 | | | 17 | 22.36 |
| | | | | 8.4 | | | | | | | | + | 51.36 |
| | | | | 11.6 | | | | | | | | − | 34 |
| κ | | | | 8.5 | | | | | | | | − | 2 |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | + 51.00 | 18 | 13.86 |
| $\alpha_2$ | | | | | | | | | | | | − | 2.13 |
| | | | | | | | | | | | | 18 | 11.23 |
| | 19 35 / 18 45.9 | 50 09 / 50 14.6 | 9.4 / 9.4 | 18 21.4 | 18 50.8 | 54.3 | 57.6 | 0.5 | 3.7 | | | 18 | 57.38 |
| | | | | 22.6 | | | | | | | | + | 48.17 |
| | | | | 23.7 | | | | | | | | − | .21 |
| | | | | 22.6 | | | | | | | | − | .12 |
| κ | | | | | | | | | | | | − | 2 |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | + 47.82 | 19 | 45.20 |
| $\alpha_1$ | | | | | | | | | | | | − | 2.24 |
| | | | | | | | | | | | | 19 | 42.96 |
| | | | 9.5 | 18 31.9 | 18 47.5 | 51.0 | 54.1 | 57.0 | 0.3 | | | 18 | 53.98 |
| | | | | 34.2 | | | | | | | | + | 51.36 |
| | | | | 39.0 | | | | | | | | − | .33 |
| κ | | | | 34.4 | | | | | | | | − | 2 |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | + 51.01 | 19 | 44.99 |
| $\alpha_2$ | | | | | | | | | | | | − | 2.10 |
| | | | | | | | | | | | | 19 | ~~42.89~~ |
| | 20 47 / 19 62.8 | 50 57 / 51 2.3 | 9.1 / 9.2 | 19 40.2 | 19 53.9 | 59.2 | 2.7 | 6.1 | 9.1 | | | 20 | 2.60 |
| | | | | 43.7 | | | | | | | | + | 48.17 |
| | | | | 46.9 | | | | | | | | − | .22 |
| | | | | 42.6 | | | | | | | | − | .13 |
| κ | | | | | | | | | | | | − | 2 |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | + 47.80 | 20 | 50.40 |
| $\alpha_1$ | | | | | | | | | | | | − | 2.28 |
| | | | | | | | | | | | | 20 | 48.12 |
| | | | 9.0 | 19 31.4 | 19 52.8 | 55.8 | 59.1 | 2.6 | 6.0 | | | 19 | 59.26 |
| | | | | 34.6 | | | | | | | | + | 51.36 |
| | | | | 34.5 | | | | | | | | − | .34 |
| κ | | | | 34.6 | | | | | | | | − | 2 |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | + 51.00 | 20 | 50.26 |
| $\alpha_2$ | | | | | | | | | | | | − | 2.16 |
| | | | | | | | | | | | | 20 | 48.10 |

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May 19 · May 26.

Runs $R_{eq}$ = +10 16.18 17.65

| | $T_m - T$ | A | C | Sum | Mean + | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 3 27.7 | 31.5 | 38 | 29.60 | 50 44 18.75 | | | 35 | 50 54 15.25 | |
| | +23.0 | | | | | 54 34.93 | | | | − .14 | +8.67 |
| 32 d | 1.36173 | | | | | −18.68 | | | | − .14 | |
| | 9.79965 | | | | | | 54 15.25 | | | + 8.60 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.27130 m | | | | | | | | | + .35 | |
| | | | | | | | | | | −6.40 | |
| +2.96 $\delta_1$ | | 16 10.08 | | 53 56.4 | | | | | | 54 16.66 | |
| −2.000 | | | | | | | | | | | |
| | +25.7 | 3 26.8 | 31.3 | 38 | 29.05 | 50 44 19.30 | | | 35 | 16.08 | |
| | 1.40993 | | | | | 54 36.95 | | | | − .18 | +8.60 |
| d | 9.79965 | | | | | − 20.87 | | | | − .7 | |
| | 1.31950 m | | | | | | 54 16.08 | | | + 8.50 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .35 | |
| | | | | | | | | | | − 7.50 | |
| +2.96 $\delta_2$ | | 16 10.10 | | 53 57.2 | | | | | | 54 17.18 | |
| −2.000 | | | | | | | | | | | |
| | +25.1 | 1 9.0 | 12.1 | 16 | 10.55 | 50 6 37.80 | | | 15 | 50 16 33.32 | |
| | 1.39967 | | | | | 16 53.98 | | | | − .17 | +8.05 |
| 48 d | 9.80550 | | | | | − 20.66 | | | | − .5 | |
| | 1.31509 m | | | | | | 16 33.32 | | | + 7.96 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .31 | |
| | | | | | | | | | | − 6.20 | |
| +2.95 $\delta_1$ | | 17 17.02 | | 16 14.3 | | | | | | 16 34.31 | |
| −2.000 | | | | | | | | | | | |
| 14.07 | | | | | | | | | | | |
| | +24.5 | 1 9.1 | 12.0 | 16 | 11.05 | 50 6 37.30 | | | 15 | 34.79 | |
| | 1.38917 | | | | | 16 54.95 | | | | − .15 | +8.01 |
| d | 9.80550 | | | | | − 20.16 | | | | − .2 | |
| | 1.30459 m | | | | | | 16 34.79 | | | + 7.87 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .31 | |
| | | | | | | | | | | − 7.30 | |
| +2.95 $\delta_2$ | | 17 16.87 | | 16 15.5 | | | | | | 16 35.50 | |
| −2.000 | | | | | | | | | | | |
| | +18.2 | 2 29.5 | 33.0 | 42 | 31.25 | 50 40 17.10 | | | 40 | 50 50 18.47 | |
| | 1.26007 | | | | | 50 33.28 | | | | − .9 | +8.64 |
| 36 d | 9.80043 | | | | | −14.81 | | | | − .10 | |
| | 1.17042 m | | | | | | 50 18.47 | | | + 8.53 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .34 | |
| | | | | | | | | | | −6.30 | |
| +2.94 $\delta_1$ | | 18 14.20 | | 50 0.0 | | | | | | 50 19.99 | |
| −19.99 | | | | | | | | | | | |
| | +13.9 | 2 34.1 | 37.7 | 42 | 35.90 | 50 40 12.45 | | | 40 | 18.79 | |
| | 1.14301 | | | | | 50 30.10 | | | | − .5 | +8.67 |
| d | 9.80043 | | | | | −11.31 | | | | − .5 | |
| | 1.05836 m | | | | | | 50 18.79 | | | + 8.43 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .34 | |
| +2.94 | | | | | | | | | | −7.30 | |
| −19.99 $\delta_2$ | | 18 14.17 | | 50 0.2/4 | | | | | | 50 20.16 | |
| | +34.8 | 4 42.1 | 43.7 | 24 | 42.90 | 49 58 5.45 | | | 20 | 50 7 52.90 | |
| | 1.54158 | | | | | 50 8 21.63 | | | | − .33 | +7.60 |
| 40 d | 9.80686 | | | | | −28.73 | | | | − .19 | |
| | 1.45836 m | | | | | | 7 52.90 | | | + 7.82 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .30 | |
| +2.93 | | | | | | | | | | −6.00 | |
| −19.98 $\delta_1$ | | 19 45.89 | | 7 33.7 | | | | | | 7 53.64 | |
| | +19.6 | 4 56.1 | 0.4 | 24 | 58.25 | 49 57 50.10 | | | 20 | 57.57 | |
| | 1.29226 | | | | | 50 8 7.75 | | | | − .11 | +7.82 |
| d | 9.80686 | | | | | −16.18 | | | | − .10 | |
| | 1.20904 m | | | | | | 7 51.57 | | | + 7.73 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .30 | |
| +2.93 | | | | | | | | | | −7.00 | |
| −19.98 $\delta_2$ | | 19 45.82 | | 7 32.4 | | | | | | 7 52.39 | |
| | +19.0 | 1 9.0 | 13.1 | 36 | 11.05 | 50 46 37.30 | | | 35 | 50 56 38.06 | |
| | 1.27875 | | | | | 56 53.48 | | | | − .10 | +8.84 |
| 34 d | 9.79934 | | | | | −15.42 | | | | − .5 | |
| | 1.18801 m | | | | | | 56 38.06 | | | + 8.64 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .35 | |
| | | | | | | | | | | −6.10 | |
| +2.92 $\delta_1$ | | 20 51.04 | | 56 20.0 | | | | | | 56 39.94 | |
| −19.97 | | | | | | | | | | | |
| | +24.7 | 1 8.0 | 12.1 | 36 | 10.05 | 50 46 38.30 | | | 35 | 35.91 | |
| | 1.39270 | | | | | 56 55.95 | | | | − .17 | +8.70 |
| d | 9.79934 | | | | | − 20.04 | | | | − .2 | |
| | 1.30196 m | | | | | | 56 35.91 | | | + 8.54 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .35 | |
| | | | | | | | | | | − 7.20 | |
| +2.92 $\delta_2$ | | 20 51.02 | | 56 17.4 | | | | | | 56 37.41 | |
| −19.97 | | | | | | | | | | | |

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Date$_1$ = May 19. 1874 Observer W.A.R Recorder J.F.M

Date$_2$ = May 26 1874 Observer Recorder

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| Star. α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2h 22m 21 42.0 | 31 58 21 50 26.7 | 7.4 7.3 | 31 26.5 29.4 33.4 29.8 | 31 43.3 | 46.5 | 49.6 | 52.8 | 56.2 | | | m 21 49.68 + 48.17 − .22 − .12 | |
| κ | | | | | | | | | | | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 47.81 | − 2 | |
| $\alpha_1$ | | | | | | | | | | | 22 37.49 − 2.27 | +2. |
| | | 7.0 | 21 17.9 21.0 23.2 20.7 | 21 40.3 | 43.2 | 46.3 | 49.5 | 52.9 | | | 22 35.22 21 46.38 | −19. |
| κ | | | | | | | | | | | + 51.36 − .34 | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 51.00 | − 2 | |
| $\alpha_2$ | | | | | | | | | | | 22 37.38 − 2.14 | +2.9 |
| | | | | | | | | | | | 22 35.24 | −19. |
| 24 23 13.2 | 03 52 14 52 20.0 | 7.0 6.5 | 22 48.4 49.3 51.3 48.7 | 23 12.9 | 16.3 | 19.4 | 22.8 | 26.3 | | | 23 19.54 + 48.17 | |
| κ | | | | | | | | | | | − .23 − .13 | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 47.79 | − 2 | |
| $\alpha_1$ | | | | | | | | | | | 24 7.33 − 2.36 | +2.8 |
| | | 6.8 | 22 38.6 41.3 43.5 40.7 | 23 9.4 | 12.9 | 16.3 | 19.5 | 22.9 | | | 24 4.97 23 16.20 | −19. |
| κ | | | | | | | | | | | + 51.36 − .36 | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 50.98 | − 2 | |
| $\alpha_2$ | | | | | | | | | | | 24 7.18 − 2.23 | +2 |
| | | | | | | | | | | | 24 4.95 | −1 |
| 25 24 40.7 | 28 50 17 50 22.6 | 9.7 9.5 | 24 25.4 28.3 31.8 28.7 | 24 44.2 | 47.3 | 50.8 | 54.0 | 57.2 | | | 24 50.70 + 48.17 | |
| κ | | | | | | | | | | | − .21 − .12 | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 47.82 | − 2 | |
| $\alpha_1$ | | | | | | | | | | | 25 38.52 − 2.29 | +2.8 |
| | | 9.8 | 24 27.2 30.0 33.1 30.1 | 24 40.9 | 44.4 | 47.7 | 50.7 | 54.3 | | | 25 36.23 24 47.60 | −19. |
| κ | | | | | | | | | | | + 51.36 − .34 | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 51.00 | − 2 | |
| $\alpha_2$ | | | | | | | | | | | 25 38.60 − 2.16 | +2. |
| | | | | | | | | | | | 25 36.44 | −19 |
| 27 26 49.5 | 38 01 57 52 2.6 | 8.8 9.0 | 26 32.7 | 36 41.0 | 44.5 | 48.0 | 51.2 | 54.5 | | | 26 47.84 + 48.17 | |
| κ | 38.3 .5 | | | | | | | | | | − .23 − .13 | 2 |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 47.79 | − 2 | |
| $\alpha_1$ | | | | | | | | | | | 27 35.63 − 2.37 | +2.8 |
| | | 8.9 | 26 23.5 26.2 30.1 26.6 | 26 34.7 | 41.5 | 44.7 | (47.7) | 51.1 | | | 27 33.26 26 44.58 | −19. |
| κ | | | | | | | | | | | + 51.36 − .36 | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 50.98 | − 2 | |
| $\alpha_2$ | | | | | | | | | | | 27 35.56 − 2.24 | |
| | | | | | | | | | | | 27 33.32 | +2.3 −19 |
| 28 28 6.7 | 54 52 04 52 10.0 | 7.5 7.7 | 27 57.6 55.5 56.4 55.3 | 28 8.1 | 9.1 | 12.5 | 15.8 | 19.2 | | | 28 12.46 + 48.17 | |
| κ | | | | | | | | | | | − .23 − .13 | 3 |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 47.79 | − 2 | |
| $\alpha_1$ | | | | | | | | | | | 29 0.25 − 2.39 | +2.8 |
| | | 7.8 | 27 49.8 50.9 53.4 50.5 | 28 2.3 | 5.8 | 9.1 | 12.6 | 15.7 | | | 28 57.86 28 9.10 | −19. |
| κ | | | | | | | | | | | + 51.36 − .36 | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 50.98 | − 2 | |
| $\alpha_2$ | | | | | | | | | | | 29 0.08 − 2.25 | +2.8 |
| | | | | | | | | | | | 28 57.83 | −19. |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +19.9 | 2 51.5 | 55.1 | 12 | 53.30 | 50 9 55.05 | | | 10 | 50 19 54.87 | |
| | 1.29885 | | | | | 20 11.23 | | | | − 11 | +8.06 |
| 20 d | 9.80504 | | | | | −16.36 | | | | − .16 | |
| | 1.21381 m | | | | | | 19 54.87 | | | + 8.02 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .31 | |
| | | | | | | | | | | − 5.90 | |
| +2.91 $\delta_1$ | | 22 38.13 | | 19 36.2 X | | | | | | 19 56.17 | |
| −19.96 | | | | | | | | | | | |
| | +25.7 | 2 46.7 | 51.9 | 12 | 50.30 | 50 9 58.05 | | | 10 | 54.57 | |
| | 1.40993 | | | | | 20 15.70 | | | | − 18 | +8.00 |
| d | 9.80504 | | | | | −21.13 | | | | − 6 | |
| | 1.32489 m | | | | | | 19 54.57 | | | + 7.93 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .31 | |
| | | | | | | | | | | −6.90 | |
| +2.91 | | | | | | | | | | | |
| −19.96 $\delta_2$ | | 22 38.15 | | 19 35.7 | | | | | | 19 55.67 | |
| | +34.8 | 3 47.8 | 50.1 | 18 | 48.95 | 52 3 59.40 | | | 15 | 52 13 51.28 | |
| | 1.48855 | | | | | 14 15.58 | | | | − 25 | +9.97 |
| 34 d | 9.78707 | | | | | −24.30 | | | | − 15 | |
| | 1.38554 m | | | | | | 13 51.28 | | | + 9.97 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 6.20 | |
| +2.89 $\delta_1$ | | 24 7.86 | | 13 34.2 | | | | | | 13 ~~55.05~~ 54.19 | |
| −19.94 | | | | | | | | | | | |
| | +35.4 | 3 45.3 | 48.9 | 18 | 47.10 | 52 4 1.25 | | | 15 | 50.98 | |
| | 1.54900 | | | | | 14 18.90 | | | | − 32 | +9.87 |
| d | 9.78707 | | | | | −27.92 | | | | − 7 | |
| | 1.44599 m | | | | | | 13 50.98 | | | + 9.86 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 7.30 | |
| +2.89 $\delta_2$ | | 24 7.84 | | 13 33.6 | | | | | | 13 53.55 | |
| −19.94 | | | | | | | | | | | |
| | +22.0 | 1 27.1 | 31.5 | 16 | 29.30 | 50 6 19.05 | | | 15 | 50 16 17.12 | |
| | 1.34242 | | | | | 16 35.23 | | | | − .13 | +8.08 |
| d | 9.80550 | | | | | −18.11 | | | | − 6 | |
| | 1.25784 m | | | | | | 16 17.12 | | | + 7.96 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .31 | |
| | | | | | | | | | | − 5.60 | |
| +2.89 $\delta_1$ | | 25 39.12 | | 15 58.8 | | | | | | 16 ~~19.60~~ 18.74 | |
| −19.93 | | | | | | | | | | | |
| | +17.5 | 1 33.1 | 38.1 | 16 | 35.60 | 50 6 12.75 | | | 15 | 16.00 | |
| | 1.24304 | | | | | 16 30.40 | | | | − 8 | +8.07 |
| d | 9.80550 | | | | | −14.40 | | | | − 3 | |
| | 1.15846 m | | | | | | 16 16.00 | | | + 7.87 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .31 | |
| | | | | | | | | | | − 6.80 | |
| +2.89 $\delta_2$ | | 25 39.73 | | 15 57.3 | | | | | | 16 17.27 | |
| −19.93 | | | | | | | | | | | |
| | −4.9 | 1 55.9 | 58.9 | 36 | 57.40 | 51 45 50.95 | | | 35 | 51 56 11.02 | |
| | 0.69020 m | | | | | 56 7.13 | | | | − .1 | 9.97 |
| 26 d | 9.78999 | | | | | + 3.89 | | | | − 8 | |
| | 0.59011 | | | | | | 56 11.02 | | | + 9.66 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | −6.00 | |
| +2.87 $\delta_1$ | | 27 36.13 | | 55 54.2 | | | | | | 56 ~~14.99~~ 14.13 | |
| −19.91 | | | | | | | | | | | |
| | +18.0 | 1 38.2 | 43.1 | 36 | 40.65 | 51 46 7.70 | | | 35 | 11.06 | |
| | 1.25527 | | | | | 56 25.35 | | | | − 9 | +8.83 |
| d | 9.78999 | | | | | −14.29 | | | | − 3 | |
| | 1.15518 m | | | | | | 56 11.06 | | | + 8.55 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 7.00 | |
| +2.87 $\delta_2$ | | 27 36.19 | | 55 53.0 | | | | | | 56 12.89 | |
| −19.91 | | | | | | | | | | | |
| | +17.2 | 4 33.4 | 36.5 | 29 | 34.95 | 51 53 13.40 | | | 25 | 52 3 15.96 | |
| | 1.23553 | | | | | 52 3 29.58 | | | | − 8 | +9.93 |
| 36 d | 9.78869 | | | | | −13.62 | | | | − 18 | |
| | 1.13414 m | | | | | | 3 15.96 | | | + 9.79 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 5.90 | |
| +2.86 $\delta_1$ | | 29 0.72 | | 2 59.2 | | | | | | 3 ~~19.99~~ .13 | |
| −19.89 | | | | | | | | | | | |
| | +18.6 | 4 33.0 | 37.2 | 29 | 35.10 | 51 53 13.25 | | | 25 | 16.17 | |
| | 1.26951 | | | | | 52 3 30.90 | | | | − .10 | +9.90 |
| d | 9.78869 | | | | | −14.73 | | | | − 9 | |
| | 1.16812 m | | | | | | 3 16.17 | | | + 9.69 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 7.00 | |
| +2.86 $\delta_2$ | | 29 0.69 | | 2 59.2 | | | | | | 3 19.07 | |
| −19.89 | | | | | | | | | | | |

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1874phae.proj.1588R

300

Date$_1$ = May 19, 1874 Observer R.A.R Recorder J.F.M.

301

Date$_2$ = May 26, 1874 Observer Recorder

70

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | h 30 | ° ′ 17 | 8.5 | m s 29 12.8 | 34 29.1 | 32.7 | 36.0 | 39.4 | 42.7 | | | 29 | 35.98 |
| | 29 | 280 52 16.9 | 8.0 | 16.8 | | | | | | | | + | 48.17 |
| | κ | | | 19.4 | | | | | | | | − | .23 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 16.3 | | | | | | | + 47.79 | − | .13 |
| | $\alpha_1$ | | | | | | | | | | | − | 2 |
| | | | | | | | | | | | | 30 | 23.77 |
| | | | | | | | | | | | | − | 2.40 |
| | | | | | | | | | | | | 30 | 21.37 |
| | | | 8.4 | 28 59.9 | 29 25.8 | 29.4 | 32.7 | 35.8 | 37.3 | | | 29 | 32.60 |
| | | | | 3.1 | | | | | | | | + | 51.36 |
| | κ | | | 6.9 | | | | | | | | − | .36 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 6.3 | | | | | | | + 50.98 | − | 2 |
| | $\alpha_2$ | | | | | | | | | | | 30 | 23.58 |
| | | | | | | | | | | | | − | 2.27 |
| | | | | | | | | | | | | 30 | 21.31 |
| | 32 | 15 | 9.0 | 30 48.2 | 31 30.1 | 33.6 | 37.0 | 40.3 | 43.7 | | | 31 | 36.94 |
| | 31 | 27.1 52 7.2 | 8.9 | 51.2 | | | | | | | | + | 48.17 |
| | κ | | | 53.4 | | | | | | | | − | .23 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 50.9 | | | | | | | − | − | .13 |
| | $\alpha_1$ | | | | | | | | | | + 47.79 | − | 2 |
| | | | | | | | | | | | | 32 | 24.73 |
| | | | | | | | | | | | | − | 2.40 |
| | | | | | | | | | | | | ~~+1.55~~ 32 | 22.33 |
| | | | 9.0 | 31 8.3 | 31 26.6 | 30.3 | 33.5 | 36.9 | 40.3 | | | 31 | 33.52 |
| | | | | 12.0 | | | | | | | | + | 51.36 |
| | κ | | | 15.3 | | | | | | | | − | .36 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 11.9 | | | | | | | + 50.98 | − | 2 |
| | $\alpha_2$ | | | | | | | | | | | 32 | 24.50 |
| | | | | | | | | | | | | − | 2.27 |
| | | | | | | | | | | | | 32 | 22.23 |
| | 33 | 59 | 9.0 | 32 47.0 | 33 12.3 | 15.6 | 18.9 | 22.4 | 25.7 | | | 33 | 18.98 |
| | 33 | 10.7 52 23.1 | 8.9 | 50.0 | | | | | | | | + | 48.17 |
| | κ | | | 53.3 | | | | | | | | − | .23 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 50.1 | | | | | | | | − | .13 |
| | $\alpha_1$ | | | | | | | | | | + 47.79 | − | 2 |
| | | | | | | | | | | | | 34 | 6.77 |
| | | | | | | | | | | | | − | 2.43 |
| | | | | | | | | | | | | 34 | 4.34 |
| | | | 9.0 | 32 49.4 | 33 8.8 | 12.3 | 15.9 | 19.0 | 22.3 | | | 33 | 15.66 |
| | | | | 53.2 | | | | | | | | + | 51.36 |
| | κ | | | 56.7 | | | | | | | | − | .36 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 53.0 | | | | | | | + 50.98 | − | 2 |
| | $\alpha_2$ | | | | | | | | | | | 34 | 6.64 |
| | | | | | | | | | | | | − | 2.29 |
| | | | | | | | | | | | | 34 | 4.35 |
| | 35 | 23 | 8.5 | 34 59.9 | 34 — | — | 46.9 | 50.1 | 53.1 | | | 34 | 46.76 |
| | 34 | 35.5 51 1.9 | 8.7 | 59.5 | | | | | | | | + | 48.17 |
| | κ | | | 1.6 | | | | | | | | − | .22 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 59.7 | | | | | | | | − | .12 |
| | $\alpha_1$ | | | | | | | | | | + 47.81 | − | 2 |
| | | | | | | | | | | | | 35 | 34.57 |
| | | | | | | | | | | | | − | 2.37 |
| | | | | | | | | | | | | 35 | 32.20 |
| | | | 8.5 | 34 12.5 | 34 36.8 | 40.0 | 43.4 | 46.6 | 50.0 | | | 34 | 43.36 |
| | | | | 16.2 | | | | | | | | + | 51.36 |
| | κ | | | 18.7 | | | | | | | | − | .34 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 15.8 | | | | | | | + 51.00 | − | 2 |
| | $\alpha_2$ | | | | | | | | | | | 35 | 34.36 |
| | | | | | | | | | | | | − | 2.25 |
| | | | | | | | | | | | | 35 | 32.11 |
| | 37 | 03 | 8.8 | 35 61.5 | 36 17.1 | 20.5 | 23.8 | 26.9 | 30.2 | | | 36 | 23.70 |
| | 36 | 16.0 49 23.7 | 9.0 | 54.8 | | | | | | | | + | 48.17 |
| | κ | | | 56.9 | | | | | | | | − | .21 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 54.4 | | | | | | | | − | .12 |
| | $\alpha_1$ | | | | | | | | | | + 47.82 | − | 2 |
| | | | | | | | | | | | | 37 | 11.52 |
| | | | | | | | | | | | | − | 2.39 |
| | | | | | | | | | | | | 37 | 9.13 |
| | | | 8.9 | 35 54.9 | 36 14.1 | 17.2 | 20.5 | 23.6 | 26.9 | | | 36 | 20.46 |
| | | | | 58.0 | | | | | | | | + | 51.36 |
| | κ | | | 1.4 | | | | | | | | − | .33 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 53.0 | | | | | | | + 51.01 | − | 2 |
| | $\alpha_2$ | | | | | | | | | | | 37 | 11.47 |
| | | | | | | | | | | | | − | 2.26 |
| | | | | | | | | | | | | 37 | 9.21 |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +18.7 | 0 14.0 | 17.9 | 26 | 15.95 | 52 2 32.40 | | | 20 | 52 12 33.03 | |
| 38 d | 1.29449 | | | | | 12 48.58 | | | | − .11 | +10.24 |
| | 9.78723 | | | | | − 15.55 | | | | − .1 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.19162 | | | | | | 12 33.03 | | | + 9.96 | |
| | | | | | | | | | | + .40 | |
| +2.84 δ₁ | | 30 24.21 | | 12 16.8 | | | | | | − 5.70 | |
| −19.88 | | | | | | | | | | 12 36.71 | |
| | +29.3 | 0 8.8 | 12.1 | 20 | 10.95 | 52 2 37.40 | | | 20 | 31.93 | |
| d | 1.46687 | | | | | 12 55.05 | | | | − .22 | +10.02 |
| | 9.78723 | | | | | − 23.12 | | | | − 0 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.36402 | | | | | | 12 31.93 | | | + 9.84 | |
| | | | | | | | | | | + .40 | |
| +2.84 δ₂ | | 30 24.15 | | 12 15.2 | | | | | | − 6.90 | |
| −19.88 | | | | | | | | | | 12 35.05 | |
| | +46.0 | 2 25.0 | 29.4 | 32 | 27.20 | 51 50 21.15 | | | 30 | 52 0 0.87 | |
| 42 d | 1.66276 | | | | | 52 0 37.33 | | | | − .52 | +9.48 |
| | 9.78918 | | | | | − 36.46 | | | | − 10 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.56186 | | | | | | 0 0.87 | | | + 9.74 | |
| | | | | | | | | | | + .40 | |
| +2.83 | | | | | | | | | | − 5.60 | |
| −19.85 δ₁ | | 32 25.16 | | 59 44.0 | | | | | | 0 3.89 | |
| 2.37 | | | | | | | | | | | |
| | +21.6 | 2 47.0 | 50.5 | 32 | 48.75 | 51 49 59.60 | | | 30 | 0.13 | |
| d | 1.33445 | | | | | 52 0 14.25 | | | | − .13 | +9.85 |
| | 9.78918 | | | | | − 17.12 | | | | − 5 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.23355 | | | | | | 0 0.13 | | | + 9.63 | |
| | | | | | | | | | | + .40 | |
| +2.83 | | | | | | | | | | − 6.70 | |
| −19.85 δ₂ | | 32 25.06 | | 59 43.4 | | | | | | 0 3.28 | |
| | +28.9 | 0 54.5 | 58.4 | 15 | 56.45 | 52 6 51.90 | | | 15 | 52 16 45.31 | Emm |
| 32 d | 1.46090 | | | | | 17 8.08 | | | | − .22 | +10.17 |
| | 9.78658 | | | | | − 22.77 | | | | − 4 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.35740 | | | | | | 16 45.31 | | | +10.03 | |
| | | | | | | | | | | + .40 | |
| +2.82 δ₁ | | 34 7.16 | | 16 29.3 | | | | | | − 5.50 | |
| −19.83 | | | | | | | | | | 16 49.12 | |
| | +22.7 | 0 2.0 | 7.0 | 15 | 4.50 | 52 7 43.85 | | | 15 | 17 6 43.62 | |
| d | 1.35603 | | | 16 | | 18 1.30 | | | | − .14 | +10.20 |
| | 9.78642 | | | | | − 17.88 | | | | − 0 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.25237 | | | | | | 17 43.62 | | | + 9.94 | |
| | | | | | | | | | | + .40 | |
| +2.82 δ₂ | | 34 7.17 | | 16 27.3 | | | | | | − 6.70 | |
| −19.83 | | | | | | | | | | 17 6 47.12 | |
| | −1.29 | 2 4.8 | 7.8 | 37 | 4.30 | 50 45 47.05 | 42.05 | | 35 | 50 56 13.70 | 56 7.84 |
| 40 d | 1.11059 | | | | | 56 8.23 | 55 57.37 | | | − .24 | +8.67 |
| | 9.79950 | | | | | + 10.47 | | | | − 8 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.02001 | | | | | | 56 13.70 | | | + 8.64 | |
| | | | | | | | | | | + .35 | |
| +2.82 δ₁ | | 35 35.02 | | 55 51.6 | | | | | | − 5.10 | |
| −19.81 | | | | | | | | | | 56 16.41 | |
| | +27.6 | 1 32.3 | 36.7 | 36 | 34.50 | 50 46 13.85 | | | 35 | 9.10 | |
| d | 1.44091 | | | | | 56 31.50 | | | | − .21 | +8.65 |
| | 9.79950 | | | | | − 22.40 | | | | − 3 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.35033 | | | | | | 56 9.10 | | | + 8.54 | |
| | | | | | | | | | | + .35 | |
| +2.82 δ₂ | | 35 34.93 | | 55 51.6 | | | | | | − 6.30 | |
| −19.81 | | | | | | | | | | 56 11.45 | |
| | +29.3 | 1 2.7 | 5.8 | 36 | 4.25 | 49 46 44.10 | | | 35 | 49 56 36.00 | |
| 34 d | 1.46687 | | | 5 | | 57 0.28 | | | | − 5.23 | +7.71 |
| | 9.80852 | | | | | − 24.28 | | | | − 4 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.38531 | | | | | | 56 36.00 | | | + 7.68 | |
| | | | | | | | | | | + .30 | 1806 |
| +2.82 δ₁ | | 37 11.95 | | 54 18.1 | | | | | | − 5.00 | |
| −19.79 | | | | | | | | | | 56 37.85 | |
| | +22.5 | 2 12.5 | 13.8 | 37 | 12.15 | 49 45 36.20 | | | 35 | 55 35.20 | Emm |
| d | 1.35218 | | | | | 55 53.85 | | | | − .13 | +7.75 |
| | 9.80867 | | | | | − 18.65 | | | | − 4 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.27077 | | | | | | 55 35.20 | | | + 7.62 | |
| | | | | | | | | | | + .30 | |
| +2.82 δ₂ | | 37 12.03 | | 55 17.1 | | | | | | − 6.10 | |
| −19.79 | | | | | | | | | | 55 36.85 | |

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300

Date$_1$ = May 19, 1874 Observer W. A. R. Recorder J. H. M.

301

Date$_2$ = May 26, 1874 Observer Recorder

72

| Star. | α | δ | Mag. | $T_g$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 37 44 | 50 23 | 9.3 | 39 13.0 | 36 35.5 | 0.6 | 4.0 | 7.0 | 11.9 | | | 37 | 33.50 |
| | 36 56.7 | 50 29.1 | 9.3 | | | | | | 9 | | | + | 48.17 |
| | κ | | | | | | | | | | | − | .22 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | − | .12 |
| | | | | | | | | | | | + 47.81 | − | 2. |
| | $\alpha_1$ | | | | | | | | | | | 37 | 51.81 |
| | | | | | | | | | | | | − | 2.36 |
| | | | | | | | | | | | | 37 | 49.45 |
| | | | 9.1 | 36 50.7 | 36 54.0 | 37.4 | 0.4 | 3.5 | 6.9 | | | 37 | 0.44 |
| | | | | 53.2 | | | | | | | | + | 51.36 |
| | κ | | | 56.2 | | | | | | | | − | .34 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 52.1 | | | | | | | + 51.00 | − | 2 |
| | | | | | | | | | | | | 37 | 51.44 |
| | $\alpha_2$ | | | | | | | | | | | − | 2.24 |
| | | | | | | | | | | | | 37 | 49.20 |
| 39 | 12 24.4 | 53 04 | 9.0 | 38 5.4 | 38 25.3 | 28.7 | 32.4 | 35.8 | 39.1 | | | 38 | 32.26 |
| 38 | | 53 9.8 | 8.9 | 8.9 | | | | | | | | + | 48.17 |
| | κ | | | 11.2 | | | | | | | | − | .24 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 8.5 | | | | | | | + 47.77 | − | .13 |
| | | | | | | | | | | | | − | 3 |
| | $\alpha_1$ | | | | | | | | | | | 39 | 20.03 |
| | | | | | | | | | | | | − | 2.50 |
| | | | | | | | | | | | | 39 | 17.53 |
| | | | 8.8 | 37 55.2 | 38 21.8 | 26.2 | 28.7 | 32.1 | 35.6 | | | 38 | 28.68 |
| | | | | 58.4 | | | | | | | | + | 51.36 |
| | κ | | | 2.9 | | | | | | | | − | .37 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 58.7 | | | | | | | + 50.96 | − | .13 |
| | | | | | | | | | | | | 39 | 19.64 |
| | $\alpha_2$ | | | | | | | | | | | − | 2.37 |
| | | | | | | | | | | | | 39 | 17.27 |
| 40 | 04 | 50 31 | 9.4 | 39 6.7 | 39 19.3 | 22.4 | 26.1 | 29.0 | 32.1 | | | 39 | 25.78 |
| 39 | 17.9 | 50 36.7 | 9.2 | | | | | | | | | + | 48.17 |
| | κ | | 9.0 | | | | | | | | | − | .22 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | − | .12 |
| | | | | | | | | | | | + 47.81 | − | 2 |
| | | | | 39 12.3 | 39 19.5 | 22.6 | 26.8 | 29.3 | 32.3 | | | 39 | 26.00 |
| | $\alpha_1$ | | | | | | | | | | | + | 48.17 |
| | | | | | | | | | | | | − | .22 |
| | | | | | | | | | | | | − | 2 |
| | | | | | | | | | | | + 47.81 | | |
| | | | 9.1 | 39 1.0 | 39 16.0 | 19.3 | 22.5 | 25.8 | 29.2 | | | 39 | 22.56 |
| | | | 9.1 | | | | | | | | | + | 51.36 |
| | κ | | | | | | | | | | | − | .34 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 39 6.6 | 16.0 | 19.3 | 22.5 | 25.8 | 29.2 | | + 51.00 | − | 2 |
| | | | | 7.9 | | | | | | | | 39 | 22.56 |
| | $\alpha_2$ | | | 10.0 | | | | | | | | + | 51.36 |
| | | | | 5.2 | | | | | | | | − | .34 |
| | | | | | | | | | | | + 51.00 | − | 2 |
| 41 | 26 39.3 | 50 50 55.9 | 9.0 | 40 2.32 | 40 39.5 | 42.8 | 46.2 | 49.4 | 52.6 | | | 40 | 46.10 |
| 40 | | | 9.1 | 25.4 | | | | | | | | + | 48.17 |
| | κ | | | 30.2 | | | | | | | | − | .22 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 26.3 | | | | | | | | − | .13 |
| | | | | | | | | | | | + 47.80 | − | 2 |
| | $\alpha_1$ | | | | | | | | | | | 41 | 33.90 |
| | | | | | | | | | | | | − | 2.40 |
| | | | | | | | | | | | | 41 | 31.50 |
| | | | 9.2 | 40 16.3 | 40 36.1 | 39.3 | 42.7 | 45.9 | 49.1 | | | 40 | 42.62 |
| | | | | 17.6 | | | | | | | | + | 51.36 |
| | κ | | | 22.0 | | | | | | | | − | .34 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 18.3 | | | | | | | + 51.00 | − | 2 |
| | | | | | | | | | | | | 41 | 33.62 |
| | $\alpha_2$ | | | | | | | | | | | − | 2.28 |
| | | | | | | | | | | | | 41 | 31.34 |
| 42 | 19 32.6 | 50 37 50 42.6 | 9.4 | 41 21.2 | 41 34.3 | 37.7 | 41.0 | 44.0 | 47.4 | | | 41 | 40.88 |
| 41 | | | 9.2 | 23.4 | | | | | | | | + | 48.17 |
| | κ | | | 27.2 | | | | | | | | − | .22 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 24.0 | | | | | | | | − | .12 |
| | | | | | | | | | | | + 47.81 | − | 2 |
| | $\alpha_1$ | | | | | | | | | | | 42 | 28.69 |
| | | | | | | | | | | | | − | 2.39 |
| | | | | | | | | | | | | 42 | 26.30 |
| | | | 9.2 | 41 22.7 | 41 31.0 | 34.4 | 37.4 | 40.9 | 44.0 | | | 41 | 37.54 |
| | | | | 25.5 | | | | | | | | + | 51.36 |
| | κ | | | 28.6 | | | | | | | | − | .34 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 25.6 | | | | | | | + 51.00 | − | 2 |
| | | | | | | | | | | | | 42 | 28.54 |
| | $\alpha_2$ | | | | | | | | | | | − | 2.28 |
| | | | | | | | | | | | | 42 | 26.26 |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | −9.0 | 0′ 3.2 | 6.9 | 10 | 5.05 | 50 12 43.30 | | | 10 | 50 23 6.87 | |
| | 0.954424 | | | | | 22 59 48 | | | | − 2 | +8.38 |
| d | 9.80458 | | | | | +7.39 | | | | − 0 | |
| | 0.868741 | | | | | | 23 6.87 | | | + 8.08 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .32 | |
| | | | | | | | | | | − 4.80 | |
| +2.81 δ₁ | | 37 52.06 | | 22 49.8 | | | | | | 23 9.59 | |
| −19.78 | | | | | | | | | | | |
| | +7.0 | 4 4.8 | 5.4 | 9 | 51.60 | 50 12 56.75 | | | 5 | 8.65 | |
| | 0.845101 | | | | | 23 14.40 | | | | − 2 | +8.19 |
| d | 9.80458 | | | | | −5.75 | | | | − 10 | |
| | 0.759601 | | | | | | 23 8.65 | | | + 7.99 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .32 | |
| | | | | | | | | | | − 6.00 | |
| +2.81 δ₂ | | 37 52.01 | | 22 51.1 | | | | | | 23 10.84 | |
| −19.78 | | | | | | | | | | | |
| | +23.8 | 4 15.2 | 19.1 | 29 | 17.15 | 52 53 31.20 | | | 25 | 53 3 28.96 | |
| | 1.37658 | | | | | 53 3 47.38 | | | | − 15 | +10.91 |
| d | 9.77879 | | | | | −18.42 | | | | − 17 | |
| | 1.265291 | | | | | | 3 28.96 | | | +10.83 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | −5.40 | |
| +2.77 δ₁ | | 39 20.30 | | 3 13.8 | | | | | | 3 33.61 | |
| −19.76 | | | | | | | | | | | |
| | +30.0 | 4 12.3 | 15.4 | 29 | 13.85 | 52 53 34.50 | | | 25 | 28.93 | |
| | 1.47712 | | | | | 53 3 52.15 | | | | − .24 | +10.79 |
| d | 9.77879 | | | | | −23.22 | | | | − 8 | |
| | 1.365831 | | | | | | 3 28.93 | | | + 10.71 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | −6.50 | |
| +2.77 δ₂ | | 39 20.04 | | 3 13.5 | | | | | | 3 33.22 | |
| −19.76 | | | | | | | | | | | |
| | +19.1 | 2 12.0 | 14.0 | 2 | 13.00 | 50 20 35.35 | | | 0 | 50 30 35.89 | 30 40.31 |
| 22 | 1.28103 | 2 12.0 | 14.0 | 2 | 13.00 | 50 20 33.35 | | | 0 | − .10 | − 5 |
| d | 9.80336 | 50 30 35.89 | | 50 30 40.31 | | 30 51.53 | 30 35.89 | | | − 9 | − 9 |
| +2.79 | 1.19441 | +8.34 | | + 8.39 | | 30 51.53 | | | | + 8.21 | + 8.21 |
| −19.75 44 ((δ) − D) $\frac{d'}{100}$ | +13.7 | | | | | −15.64 | | | | + .32 | + .32 |
| | 1.13672 | | | | | −11.22 | 30 40.31 | | | − 4.70 | − 4.70 |
| +2.79 δ₁ | 9.80336 | 40 14.00 | | 30 18.9 | | | | | | 30 38.67 | 30 43.14 |
| −19.75 | 1.05000 | 14.22 | | 23.4 | | | | | | | |
| | +21.6 | 2 12.9 | 16.0 | 2 | 14.45 | 50 20 33.90 | | | 0 | 33.86 | 39.76 |
| | 1.33445 | 2 12.9 | 16.0 | 2 | 14.45 | 50 20 33.90 | | | 0 | − .13 | − 5 |
| d | 9.80336 | 1.24773 | | | | 30 51.55 | 30 33.86 | | | − 4 | − 4 |
| +2.79 | +14.4 | 50 30 33.86 | | 50 30 39.76 | | 30 51.55 | | | | + 8.12 | + 8.12 |
| −19.75 ((δ) − D) $\frac{d'}{100}$ | 1.15836 | +8.27 | | + 8.35 | | −17.69 | | | | + .32 | + .32 |
| | 9.80336 | | | | | −11.79 | 30 39.76 | | | − 5.90 | − 5.90 |
| +2.79 δ₂ | 1.07164 | 40 14.09 | | 30 16.5 | | | | | | 30 36.23 | 30 42.21 |
| −19.75 | 19 | 14.09 | | 22.5 | | | | | | | |
| | +20.8 | 3 4.0 | 5.0 | 43 | 4.50 | 50 39 43.85 | | | 40 | 50 49 43.92 | |
| | 1.29667 | | | | | 50 0.08 | | | | − 11 | +8.65 |
| 48 d | 9.80043 | | | | | −16.11 | | | | − 12 | |
| | 1.20702 | | | | | | 49 43.92 | | | + 8.54 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .34 | |
| | | | | | | | | | | − 4.70 | |
| +2.78 δ₁ | | 41 34.28 | | 49 27.3 | | | | | | 49 47.01 | |
| −19.72 | | | | | | | | | | | |
| | +24.3 | 2 59.4 | 3.0 | 43 | 1.20 | 50 39 47.15 | | | 40 | 45.03 | |
| | 1.38561 | | | | | 50 4.80 | | | | − .13 | +8.57 |
| d | 9.80043 | | | | | −19.77 | | | | − 6 | |
| | 1.29596 | | | | | | 49 45.03 | | | + 8.44 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .34 | |
| +2.78 | | | | | | | | | | − 5.80 | |
| −19.72 δ₂ | | 41 34.12 | | 49 28.1 | | | | | | 49 47.80 | |
| | +16.9 | 1 7.7 | 8.9 | 56 | 8.30 | 50 26 40.05 | | | 55 | 32 36 42.42 | |
| | 1.22789 | | | | | 36 56.23 | | | | − 8 | +8.54 |
| 34 d | 9.80244 | | | | | −13.81 | | | | − 4 | |
| | 1.14025 | | | | | | 36 42.42 | | | + 8.33 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .33 | |
| | | | | | | | | | | − 4.50 | |
| +2.77 δ₁ | | 42 29.07 | | 36 25.9 | | | | | | 36 45.60 | |
| −19.71 | | | | | | | | | | | |
| | +11.9 | 1 12.1 | 16.1 | 56 | 14.10 | 50 26 34.25 | | | 55 | 42.15 | |
| | 1.07555 | | | | | 36 51.90 | | | | − 4 | +8.50 |
| d | 9.80244 | | | | | −9.72 | | | | − 2 | |
| | 0.98791 | | | | | | 36 42.18 | | | + 8.23 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .33 | |
| | | | | | | | | | | − 5.70 | |
| +2.77 δ₂ | | 42 29.03 | | 36 25.3 | | | | | | 36 44.98 | |
| −19.71 | | | | | | | | | | | |

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Date$_1$ = May 19.1874 (370) Observer W. A. R. Recorder J. H. W.

Date$_2$ = May 26.1874 (301) Observer Recorder

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 42 | 43 21 | 50 04 | 9.4 | 42 25.6 | 42 36.3 | 39.4 | 42.5 | 45.8 | 48.9 | | | 42 | 42.58 |
| | 42 34.3 | 50 10.0 | 9.2 | 27.5 | | | | | | | | + | 48.17 |
| | κ | | | 30.4 | | | | | | | | − | .21 |
| | | | | 27.8 | | | | | | | | − | .12 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 47.82 | − | 2 |
| | | | | | | | | | | | | 43 | 30.40 |
| | $\alpha_1$ | | | | | | | | | | | − | 2.37 |
| | | | | | | | | | | | | 43 | 28.03 |
| | | | 9.1 | 42 29.0 | 42 32.1 | 35.9 | 39.0 | 42.5 | 45.4 | | | 42 | 39.10 |
| | | | | 29.4 | | | | | | | | + | 51.36 |
| | κ | | | 30.4 | | | | | | | | − | .33 |
| | | | | 27.7 | | | | | | | | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 51.01 | 43 | 30.11 |
| | $\alpha_2$ | | | | | | | | | | | − | 2.25 |
| | | | | | | | | | | | | 43 | 27.86 |
| 44 | 28 | 49 56 | 7.8 | 44 13.9 | 44 41.1 | 44.4 | 47.1 | 50.7 | 54.1 | | | 44 | 47.60 |
| 44 | 41.4 | 50 3.3 | 7.6 | 16.8 | | | | | | | | + | 48.17 |
| | κ | | | 19.1 | | | | | | | | − | 21 |
| | | | | 16.6 | | | | | | | | − | 12 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 47.82 | − | 2 |
| | | | | | | | | | | | | 45 | 35.42 |
| | $\alpha_1$ | | | | | | | | | | | − | 2.38 |
| | | | | | | | | | | | | 45 | 33.04 |
| | | | 7.9 | 44 11.1 | 44 37.8 | 41.0 | 44.3 | 47.6 | 50.7 | | | 44 | 44.28 |
| | | | | 16.7 | | | | | | | | + | 51.36 |
| | κ | | | 17.7 | | | | | | | | − | .33 |
| | | | | 14.7 | | | | | | | | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 51.01 | 45 | 35.29 |
| | $\alpha_2$ | | | | | | | | | | | − | 2.27 |
| | | | | | | | | | | | | 45 | 33.02 |
| 46 | 39 | 50 04 | 9.1 | 45 32.8 | 45 52.5 | 55.9 | 59.2 | 2.3 | 5.4 | | | 45 | 59.06 |
| 45 | 62.5 | 50 9.8 | 9.1 | 26.9 | | | | | | | | + | 48.17 |
| | κ | | | 30.0 | | | | | | | | − | 21 |
| | | | | 26.5 | | | | | | | | − | 12 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 47.82 | − | 2 |
| | | | | | | | | | | | | 46 | 46.88 |
| | $\alpha_1$ | | | | | | | | | | | − | 2.39 |
| | | | | | | | | | | | | 46 | 44.49 |
| | | | 9.3 | 45 31.4 | 45 49.2 | 52.5 | 55.6 | 59.0 | 2.0 | | | 45 | 55.66 |
| | | | | 34.6 | | | | | | | | + | 51.36 |
| | κ | | | 37.8 | | | | | | | | − | .33 |
| | | | | 24.6 | | | | | | | | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 51.01 | 46 | 46.67 |
| | $\alpha_2$ | | | | | | | | | | | − | 2.28 |
| | | | | | | | | | | | | 46 | 44.39 |
| 47 | 54 | 50 01 | 9.0 | 46 44.2 | 47 7.3 | 10.7 | 13.8 | 17.2 | 20.3 | | | 47 | 13.86 |
| 47 | 7.9 | 50 6.3 | 9.0 | 44.4 | | | | | | | | + | 48.17 |
| | κ | | | 53.6 | | | | | | | | − | 21 |
| | | | | 47.1 | | | | | | | | − | 12 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 47.82 | − | 2 |
| | | | | | | | | | | | | 47 | 1.68 |
| | $\alpha_1$ | | | | | | | | | | | − | 2.39 |
| | | | | | | | | | | | | 47 | 59.29 |
| | | | 9.1 | 46 43.5 | 47 4.0 | 7.1 | 10.5 | 13.6 | 16.8 | | | 47 | 10.40 |
| | | | | 46.9 | | | | | | | | + | 51.36 |
| | κ | | | 49.4 | | | | | | | | − | .33 |
| | | | | 46.7 | | | | | | | | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 51.01 | 48 | 1.41 |
| | $\alpha_2$ | | | | | | | | | | | − | 2.28 |
| | | | | | | | | | | | | 47 | 59.13 |
| | | | | Single Observation | | | | | | | | | |
| 11 | 53 | 23 | 8.4 | 52 9.8 | 52 [illegible] | 40.4 | 43.7 | 47.0 | 50.4 | | | 52 | 43.66 |
| 52 | 29.3 | 52 34.9 | 8.5 | 14.4 | | | | | | | | + | 48.16 |
| May 19 | κ | | | 17.3 | | | | | | | | − | .23 |
| | | | | 13.8 | | | | | | | | − | .13 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 47.78 | − | 2 |
| | | | | | | | | | | | | 53 | 31.44 |
| | $\alpha_1$ | | | | | | | | | | | − | 2.17 |
| | | | | | | | | | | | | 53 | 29.27 |
| 11 | 55 | 23 | 9.1 | 54 21.4 | 54 35.6 | 39.0 | 42.6 | 46.2 | 49.6 | | | 54 | 42.60 |
| 54 | 27.8 | 54 43.5 | 9.2 | 23.0 | | | | | | | | + | 48.16 |
| May 19 | κ | | | 27.8 | | | | | | | | − | .25 |
| | | | | 23.7 | | | | | | | | − | .14 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 47.74 | − | 3 |
| | | | | | | | | | | | | 55 | 30.34 |
| | $\alpha_2$ | | | | | | | | | | | − | 2.10 |
| | | | | | | | | | | | | 55 | 28.24 |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +14.8 | 0′ 17.7 | 19.7″ | 30 | 18.70 | 49 52 29.65 | | | 30′ | 50 2 33.59 | |
| | 1.17026 | | | | | 50 2 45.83 | | | | − 0.86 | |
| 48 d | 9.80762 | | | | | −12.24 | | | | − 6 | +7.97 |
| | 1.08788 m | | | | | | 2 33.59 | | | − 1 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 7.74 | |
| | | | | | | | | | | + .30 | |
| +2.77 | | | | | | | | | | − 4.30 | |
| −19.69 $\delta_1$ | | 43 30.80 | | 2 16.7 | | | | | | 2 36.40 | |
| | +9.4 | 0 24.3 | 29.9 | 30 | 27.10 | 49 52 21.25 | | | 30 | 3113 | |
| | 0.97313 | | | | | 50 2 38.90 | | | | − 2 | +7.92 |
| d | 9.80767 | | | | | −7.77 | | | | − 1 | |
| | 0.89067 m | | | | | | 2 31.13 | | | + 7.65 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .30 | |
| +2.77 | | | | | | | | | | − 5.50 | |
| −19.69 $\delta_2$ | | 43 30.63 | | 2 13.9 | | | | | | 2 33.55 | |
| | +31.6 | 0 20.4 | 24.1 | 35 | 22.25 | 49 47 26.10 | | | 35 | 49 57 16.60 | |
| | 1.49136 | | | | | 57 42.28 | | | | − .26 | +7.73 |
| 32 d | 9.80837 | | | | | −25.68 | | | | − 1 | |
| | 1.40965 m | | | | | | 57 16.60 | | | + 7.70 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .30 | |
| +2.76 | | | | | | | | | | − 4.20 | |
| −19.66 $\delta_1$ | | 45 35.80 | | 56 59.6 | | | | | | 57 ~~20.18~~ 19.27 | |
| | +29.6 | 0 22.8 | 27.1 | 35 | 24.95 | 49 47 23.40 | | | 35 | 16.53 | |
| | 1.47129 | | | | | 57 41.05 | | | | − .24 | +7.66 |
| d | 9.80837 | | | | | −24.52 | | | | − 1 | |
| | 1.38958 m | | | | | | 57 16.53 | | | + 7.61 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .30 | |
| +2.76 | | | | | | | | | | − 5.40 | |
| −19.66 $\delta_2$ | | 45 35.78 | | 56 59.1 | | | | | | 57 18.79 | |
| | +32.6 | 0 16.9 | 20.8 | 30 | 19.85 | 50 52 28.50 | | | 30 | 50 2 18.28 | |
| | 1.51322 | | | | | 57 2 44.68 | | | | − .30 | +7.72 |
| 40 d | 9.79840 | | | | | −26.40 | | | | − 1 | |
| | 1.42154 m | | | | | | 2 18.28 | | | + 7.73 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .30 | |
| +2.75 | | | | | | | | | | − 4.10 | |
| −19.64 $\delta_1$ | | 46 47.24 | | 2 1.4 | | | | | | 2 21.04 | |
| | +21.1 | 0 29.9 | 34.3 | 30 | 32.10 | 50 52 16.25 | | | 30 | 16.82 | |
| | 1.32428 | | | | | 57 2 33.90 | | | | − .12 | +7.81 |
| d | 9.79840 | | | | | −17.08 | | | | − 1 | |
| | 1.23260 m | | | | | | 2 16.82 | | | + 7.64 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .30 | |
| +2.75 | | | | | | | | | | − 5.30 | |
| −19.64 $\delta_2$ | | 46 47.14 | | 1 59.4 | | | | | | 19.33 | |
| | | | | | | | | | | 49 ~~50~~ Degree changed. | |
| | +26.5 | 2 52.7 | 53.1 | 32 | 52.90 | 49 49 55.45 | | | 30 | 59 49.69 | |
| | 1.42325 | | | | | 50 0 11.63 | | | | − .18 ~~+8.78~~ | |
| 46 d | 9.80807 | | | | | −21.94 | | | | − 7.11 +7.73 | |
| | 1.34124 m | | | | | | 59 49.69 | | | + 8.72 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .30 | |
| +2.74 | | | | | | | | | | − 4.00 | |
| −19.62 $\delta_1$ | | 48 2.03 | | 59 32.9 | | | | | | 59 ~~53.61~~ 52.56 | |
| | +23.7 | 2 55.6 | 58.9 | 32 | 57.25 | 49 ~~49~~ 51.10 | | | 30 | 49.13 | |
| | 1.37475 | | | | | 50 0 8.75 | | | | − .15 ~~+8.75~~ | |
| d | 9.80807 | | | | | −19.62 | | | | − 7.6 +7.73 | |
| | 1.29274 m | | | | | | 59 49.13 | | | + 8.64 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .30 | |
| +2.74 | | | | | | | | | | − 5.20 | |
| −19.62 $\delta_2$ | | 48 1.87 | | 59 32.0 | | | | | | 59 ~~52.68~~ 51.66 | |
| | | | | | | | | | | − 0.86 | |
| | +29.9 | 4 16.7 | 22.0 | 4 | 19.35 | 52 18 29.00 | | | 0 | 52 28 21.73 | |
| | 1.47567 | | | | | 28 45.18 | | | | − .24 | +10.23 |
| d | 9.78461 | | | | | −23.45 | | | | − .17 | |
| | 1.37020 m | | | | | | 28 21.73 | | | +10.24 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| +3.12 | | | | | | | | | | − 8.30 | |
| −20.05 $\delta_1$ | | 53 32.39 | | 28 2.7 | | | | | | 28 22.80 | |
| | | | | | | | | | | − 0.86 | |
| | +18.9 | 4 16.7 | 20.3 | 56 | 18.50 | 54 26 29.85 | | | 55 | 54 36 31.93 | |
| | 1.27646 | | | | | 36 46.03 | | | | − .10 | +12.74 |
| d | 9.76271 | | | | | −14.10 | | | | − 2 | |
| | 1.14909 m | | | | | | 36 31.93 | | | +12.46 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| +3.11 | | | | | | | | | | − 7.60 | |
| −20.05 $\delta_2$ | | 55 31.35 | | 36 16.2 | | | | | | 36 36.21 | |

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300

Date$_1$ = May 19, 1874 Observer R.A.R. Recorder J.F.M.

Single Observations.

Date$_2$ = May 26, 1874 Observer Recorder

76

| Star. | α | δ | Mag. | $T_s$ | $T_m$ | $T_o$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | h m s 56 38 | ° ′ ″ 50 06 | 9.2 | m s 55 34.5 | m s 55 03 | 54.6 | 57.9 | 02.9 | 4.1 | | | m 55 | 57.76 |
| | 55 44.1 | 50 12.1 | 9.2 | 35.0 | | | | | | | | | + 48.16 |
| May 19 | κ | | | 40.6 | | | | | | | | | − .21 |
| | | | | 37.7 | | | | | | | | | − .12 |
| | | | | | | | | | | | .81 | | − .2 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | + 47.74 | 56 | 46.57 |
| | | | | | | | | | | | | | − 2.09 |
| $c_1$ | | | | | | | | | | | | 56 | 43.48 |
| 11 | 58 00 | 51 47 | 9.6 | 56 46.3 | 57 12.7 | 17.0 | 20.6 | 23.7 | 27.0 | | | 57 | 20.40 |
| | 57 7.0 | 51 52.3 | 9.5 | 47.6 | | | | | | | | | + 48.16 |
| May 19 | κ | | | 54.0 | | | | | | | | | − .23 |
| | | | | 57.3 | | | | | | | | | − .13 |
| | | | | | | | | | | | | | − .2 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | + 47.78 | 58 | 8.18 |
| | | | | | | | | | | | | | − 2.27 |
| $a_2$ | | | | | | | | | | | | 58 | 5.91 |
| 12 | 00 22 | 52 28 | 8.9 | 59 34 | 59 37.1 | 40.6 | 44.0 | 47.4 | 50.7 | | | 59 | 43.96 |
| 11 | 59 30.0 | 52 33.2 | 9.0 | 6.5 | | | | | | | | | + 48.16 |
| May 19 | κ | | | 9.3 | | | | | | | | | − .23 |
| | | | | 6.4 | | | | | | | | | − .13 |
| | | | | | | | | | | | | | − .2 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | + 47.78 | 00 | 31.74 |
| | | | | | | | | | | | | | − 2.22 |
| $a_1$ | | | | | | | | | | | | 0 | 29.52 |
| 12 | 01 53 | 51 59 | 9.0 | 0 39.0 | 1 6.5 | 9.9 | 13.1 | 16.6 | 19.9 | | | 1 | 13.20 |
| | 01 0.3 | 52 4.7 | 9.0 | 46.0 | | | | | | | | | + 48.16 |
| May 19 | κ | | | 43.3 | | | | | | | | | − .23 |
| | | | | 41.1 | | | | | | | | | − .13 |
| | | | | | | | | | | | | | − .2 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | + 47.78 | 2 | 0.98 |
| | | | | | | | | | | | | | − 2.21 |
| $a_2$ | | | | | | | | | | | | 1 | 58.77 |
| 12 | 02 59 | 51 44 | 9.6 | 1 56.9 | 2 13.6 | 16.9 | 20.3 | 23.3 | 26.8 | | | 2 | 20.14 |
| | 02 7.2 | 51 50.1 | 9.4 | 59.6 | | | | | | | | | + 48.16 |
| May 19 | κ | | | 2.8 | | | | | | | | | − .23 |
| | | | | 59.5 | | | | | | | | | − .13 |
| | | | | | | | | | | | | | − .2 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | + 47.78 | 3 | 7.96 |
| | | | | | | | | | | | | | − 2.24 |
| $a_1$ | | | | | | | | | | | | 3 | 5.68.76 |
| 12 | 03 57 | 53 48 | 9.6 | 3 6.8 | 3 11.6 | 14.9 | 18.4 | 22.0 | 25.2 | | | 3 | 17.22 |
| | 03 5.7 | 53 54.1 | 9.4 | 9.4 | | | | | | | | | + 48.16 |
| May 19 | κ | | | 12.3 | | | | | | | | | − .25 |
| | | | | 9.5 | | | | | | | | | − .13 |
| | | | | | | | | | | | | | − .2 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | + 47.76 | 4 | 4.98 |
| | | | | | | | | | | | | | − 2.29 |
| $a_2$ | | | | | | | | | | | | 4 | 2.69 |
| 12 | 06 00 | 53 31 | 8.8 | 4 43.4 | 5 14.3 | 17.7 | 21.1 | 24.6 | 28.2 | | | 5 | 21.18 |
| | 05 9.4 | 53 36.4 | 9.0 | 46.5 | | | | | | | | | + 48.16 |
| May 19 | κ | | | 50.4 | | | | | | | | | − .24 |
| | | | | 46.8 | | | | | | | | | − .13 |
| | | | | | | | | | | | 7 | | − .2 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | + 48.77 | 6 | 8.95 |
| | | | | | | | | | | | | | − 2.31 |
| $a_1$ | | | | | | | | | | | | 6 | 6.64 |
| 12 | 13 25 | 52 11 | 9.4 | 12 15.3 | 12 38.9 | 42.2 | 45.4 | 48.9 | 52.1 | | | 12 | 45.46 |
| | 12 34.2 | 52 17.0 | 9.4 | 18.8 | | | | | | | | | + 48.17 |
| May 19 | κ | | | 21.9 | | | | | | | | | − .23 |
| | | | | 18.7 | | | | | | | | | − .13 |
| | | | | | | | | | | | | | − .2 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | + 47.79 | 13 | 33.25 |
| | | | | | | | | | | | | | − 2.30 |
| $a_2$ | | | | | | | | | | | | 13 | 30.95 |
| 12 | 14 04 | 54 01 | 9.3 | 13 44.6 | 13 14.6 | 21.2 | 24.4 | 28.0 | 31.5 | | | 13 | 24.54 |
| | 13 13.1 | 54 5.2 | 9.3 | 49.4 | | | | | | | | | + 48.17 |
| May 19 | κ | | | 52.5 | | | | | | | | | − .25 |
| | | | | 48.8 | | | | | | | | | − .14 |
| | | | | | | | | | | | | | − .3 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | + 47.75 | 14 | 12.29 |
| | | | | | | | | | | | | | − 2.39 |
| $a_1$ | | | | | | | | | | | | 14 | 9.90 |
| κ | | | | | | | | | | | | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $a_2$ | | | | | | | | | | | | | |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +20.1 | 1 0.9 | 4.0 | 28 | 2.45 | 49 56 45.90 | | | 25 | 50 6 45.48 | |
| d | 1.30320 | | | 9 | | 50 7 2.08 | | | | − .11 | +7.96 |
| | 9.80701 | | | | | −16.60 | | | | − .4 | |
| | 1.22013 m | | | | | | 6 45.48 | | | + 7.80 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .31 | |
| | | | | | | | | | | −7.50 | |
| +3.10 | $\delta_1$ | 5 46.58 | | 5 25.0 | | | | | | 5 6 45.08 | |
| −2005 | | | | | | | | | | − 0.86 | |
| | +29.1 | 1 37.0 | 41.5 | 46 | 39.25 | 51 36 9.10 | | | 45 | 51 46 2.08 | |
| d | 1.46389 | | | | | 46 25.28 | | | | − .23 | +9.57 |
| | 9.79160 | | | | | −23.20 | | | | − .7 | |
| | 1.36541 m | | | | | | 46 2.08 | | | + 9.48 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .87 | |
| | | | | | | | | | | −7.90 | |
| +3.09 | $\delta_2$ | 58 9.00 | | 45 42.8 | | | | | | 46 2.89 | |
| −2005 | | | | | | | | | | − 0.86 | |
| | +37.6 | ) 21.3 | 26.4 | 6 | 23.85 | 52 16 24.50 | | | 5 | 52 26 11.16 | |
| d | 1.57579 | | | | | 26 40.68 | | | | − .88 | +10.14 |
| | 9.78494 | | | | | −29.52 | | | | − .6 | |
| | 1.47005 m | | | | | | 26 11.16 | | | + 10.18 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | −7.90 | |
| +3.08 | $\delta_1$ | 0 32.60 | | 25 52.5 | | | | | | 26 12.54 | |
| −2005 | | | | | | | | | | − 0.86 | |
| | +32.1 | 4 15.0 | 18.9 | 34 | 16.95 | 51 48 31.40 | | | 30 | 51 48 22.12 | |
| d | 1.50651 | | | | | 58 47.58 | | | | − .27 | +9.65 |
| | 9.78950 | | | | | −25.46 | | | | − .17 | |
| | 1.40593 m | | | | | | 58 22.12 | | | + 9.69 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | −7.70 | |
| +3.06 | $\delta_2$ | 2 1.83 | | 58 3.2 | | | | | | 58 23.21 | |
| −2005 | | | | | | | | | | − 0.86 | |
| | +20.7 | 3 4 1.0 | 5.4 | 48 9 | 3.20 | 51 37 45.15 | | | 45 | 51 4 4482 | |
| d | 1.31597 | | | | | 45 1.33 | | | | − .11 | +8.62 |
| | 9.79176 | | | | | −16.51 | | | | − .12 | |
| | 1.21765 m | | | | | | 44 44.82 | | | + 8.47 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .38 | |
| | | | | | | | | | | −7.50 | |
| +3.05 | $\delta_1$ | 3 8.81 | | 43 25.0 | | | | | | 43 45.08 | |
| −2005 | | | | | | | | | | − 0.86 | |
| | +7.7 | 0 10.1 | 14.0 | 0 | 12.05 | 53 22 36.30 | | | 0 | 53 32 46.59 | Eq. Arm |
| d | 0.88649 | | | | | 32 52.48 | | | | − 2 | +11.71 |
| | 9.77387 | | | | | −5.89 | | | | − 1 | |
| | 0.77028 m | | | | | | 32 46.59 | | | + 11.34 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | −7.90 | |
| | $\delta_2$ | | | | | | | | | 32 49.54 | |
| | | | | | | | | | | − 0.86 | |
| | +34.4 | 2 51.8 | 56.0 | 2 | 53.90 | 53 19 54.45 | | | 0 | 53 29 44.28 | |
| d | 1.53656 | | | | | 30 10.63 | | | | − .31 | +11.25 |
| | 9.77439 | | | | | −26.35 | | | | − .12 | |
| | 1.42087 m | | | | | | 29 44.28 | | | + 11.28 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | −7.80 | |
| +3.02 | $\delta_1$ | 6 9.66 | | 29 26.8 | | | | | | 29 46.87 | |
| −2005 | | | | | | | | | | − 0.86 | 3812 |
| | +26.8 | 4 3.1 | 7.4 | 21 22 | 5.25 | 52 4 43.10 | | | 20 | 52 11 3812 | 10 7.26 |
| d | 1.42813 | 2 | | | | 10 59 28 | 10 5842 | | | − .19 | +10.10 |
| | 9.78739 | | | | | −21.16 | | | | − .4 | |
| | 1.32544 m | | | | | | 11 38.12 | | | + 9.93 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | −7.00 | |
| +2.97 | $\delta_2$ 243 −260 | 13 33.92 | | 10 20.3 | | | | | 10 40 | 36 11 4036 | 10 50 39 |
| −2002 | | | | | | | | | | − 0.86 | |
| | +34.0 | 4 32.4 | 36.4 | 34 | 34.40 | 53 48 13.95 | | | 30 | 53 58 49.83 | |
| d | 1.53148 | 1.41497 m | 1.38581 | | | 58 30.13 | | | | − .30 | +11.69 |
| | 9.76957 | 9.76957 | 9.76957 | | | −25.76 | | | | − .18 | |
| | 1.30105 m | 1.29446 | 1.26510 | | | −17.70 | 58 4.37 | | | + 11.77 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | 18.41 | | | | + .40 | |
| | | | | | | | | | | −7.10 | |
| +2.96 | $\delta_1$ | 14 12.86 | | 58 32.4 2 | | | | | | 58 8.10 | |
| −2002 | | | | | | | | | | 53.56 − 1.29 = 52.27 | |
| | | | | | | | | | | | |
| d | | | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| | $\delta_2$ | | | | | | | | | | |

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Date$_1$ = May 27, 1874 | Observer R.A.R | 303 | Date$_2$ = May 28, 1874 | Observer | 78

$n$ = −.22 | Recorder J.F.M. | $n$ = −.31 | Recorder

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 32 38 | 51 48 | 8.7 | 39m 25.1 | 31m 47.9 | 51.2 | 54.6 | 57.8 | 1.3 | | | m 31 | s 54.56 |
| | 31 49.8 | 51 53.4 | 8.4 | 29.0 | | | | | | | | + | 51.67 |
| | κ | | | 31.7 | | | | | | | | − | .28 |
| | | | | 28.6 | | | | | | | + 51.37 | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 32 | 45.93 |
| | | | | | | | | | | | | − | 2.25 |
| | $c_1$ | | | | | | | | | | | 32 | 43.68 |
| | | | 8.7 | 31 43.3 | 31 47.9 | 51.1 | 54.3 | 57.6 | 1.0 | | | 31 | 54.34 |
| | | | | 45.6 | | | | | | | | + | 52.10 |
| | κ | | | 48.9 | | | | | | | | − | .40 |
| | | | | 45.9 | | | | | | | + 51.68 | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 32 | 46.02 |
| | | | | | | | | | | | | − | 2.23 |
| | $c_2$ | | | | | | | | | | | 32 | 43.79 |
| | 33 46 | 51 42 | 9.6 | 32 49.8 | 32 57.2 | (1.5) | 3.8 | 7.0 | 10.6 | | | 33 | 3.82 |
| | 32 58.5 | 51 ~~47.3~~ | 9.2 | 53.0 | | | | | | | | + | 51.67 |
| | κ | 47.3 | | 55.5 | | | | | | | | − | .28 |
| | | | | 52.6 | | | | | | | + 51.37 | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 33 | 55.19 |
| | | | | | | | | | | | | − | 2.25 |
| | $a_1$ | | | | | | | | | | | 33 | 52.94 |
| | | | 9.3 | 32 49.7 | 32 57.0 | 0.3 | 3.6 | 6.9 | 10.1 | | | 33 | 3.58 |
| | | | | 51.6 | | | | | | | | + | 52.11 |
| | κ | | | 55.5 | | | | | | | | − | .40 |
| | | | | 51.6 | | | | | | | + 51.69 | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 33 | 55.27 |
| | | | | | | | | | | | | − | 2.23 |
| | $a_2$ | | | | | | | | | | | 33 | 53.04 |
| | 34 36 | 52 11 | 8.6 | 33 36.4 | 33 44.5 | 47.9 | 51.6 | 54.9 | 58.3 | | | 33 | 51.44 |
| | 33 48.1 | 52 16.5 | 8.3 | 39.4 | | | | | | | | + | 51.67 |
| | κ | | | 38.4 | | | | | | | | − | .28 |
| | | | | 37.4 | | | | | | | + 51.37 | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 34 | 42.81 |
| | | | | | | | | | | | | − | 2.28 |
| | $a_1$ | | | | | | | | | | | 34 | 40.53 |
| | | | 8.5 | 33 39.9 | 33 44.4 | 47.8 | 51.2 | 54.5 | 58.0 | | | 33 | 51.18 |
| | | | | 42.5 | | | | | | | | + | 52.11 |
| | κ | | | 45.6 | | | | | | | | − | .40 |
| | | | | 42.7 | | | | | | | + 51.69 | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 34 | 42.84 |
| | | | | | | | | | | | | − | 2.26 |
| | $a_2$ | | | | | | | | | | | 34 | 40.61 |
| | 36 01 | 51 49 | 9.7 | 34 48.8 | 35 11.0 | 14.3 | 17.8 | 21.2 | 24.5 | | | 35 | 17.76 |
| | 35 13.3 | 51 56.0 | 9.5 | 51.6 | | | | | | | | + | 51.67 |
| | κ | | | 55.1 | | | | | | | | − | .28 |
| | | | | 51.8 | | | | | | | + 51.37 | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 36 | 9.13 |
| | | | | | | | | | | | | − | 2.27 |
| | $a_1$ | | | | | | | | | | | 36 | 6.86 |
| | | | 9.6 | 34 54.0 | 35 10.9 | 14.2 | 17.6 | 20.9 | 24.4 | | | 35 | 17.60 |
| | | | | 54.0 | | | | | | | | + | 52.11 |
| | κ | | | 59.9 | | | | | | | | − | .40 |
| | | | | 57.0 | | | | | | | + 51.69 | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 36 | 9.29 |
| | | | | | | | | | | | | − | 2.25 |
| | $a_2$ | | | | | | | | | | | 36 | 7.04 |
| | 37 54 | 52 05 | 9.2 | 36 42.0 | 37 2.7 | 7.0 | 10.3 | 13.7 | 17.0 | | | 37 | 10.34 |
| | 37 6.5 | 52 10.3 | 9.2 | 44.7 | | | | | | | | + | 51.67 |
| | κ | | | 45.1 | | | | | | | | − | .28 |
| | | | | 45.1 | | | | | | | + 51.37 | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 38 | 1.71 |
| | | | | | | | | | | | | − | 2.29 |
| | $a_1$ | | | | | | | | | | | ~~38~~ 37 | ~~4.00~~ 59.42 |
| | | | 9.3 | 36 39.0 | 37 3.3 | 6.7 | 10.2 | 13.5 | 16.9 | | | 37 | 10.16 |
| | | | | 41.5 | | | | | | | | + | 52.11 |
| | κ | | | 44.3 | | | | | | | | − | .40 |
| | | | | 41.6 | | | | | | | + 51.69 | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 38 | 1.85 |
| | | | | | | | | | | | | − | 2.27 |
| | $a_2$ | | | | | | | | | | | ~~38~~ 37 | 59.58 |

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Runs Reg = May 27 +10 15.73 −01 ; May 28. 17.10 −01

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8 | 0 45.9 | 53.7 | 45 | 49.80 | 51 36 58.55 | | | 45 | 51 46 53.56 | |
| | +26.0 | | | | | 47 14.28 | | | | − .18 | +9.64 |
| 22 d | 1.41497 | | | | | − 20.72 | | | | − 1 | |
| | 9.79144 | | | | | | 46 53.56 | | | + 9.44 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.31633 m | | | 5 | | | | | | + .37 | |
| | | | | | | | | | | −6.80 | |
| +2.83 $\delta_1$ | | 32 46.51 | | 46 36.6 | | | | | | 46 56.40 | |
| −19.85 | | | | | | | | | | | |
| | +8.4 | 0 59.7 | 11.0 | 46 | 5.35 | 51 36 43.00 | | | 45 | 53.41 | |
| | 0.92428 | | | | | 47 0.10 | | | | − 2 | +8.72 |
| d | 9.79144 | | | | | − 6.69 | | | | − 1 | |
| | 0.82564 m | | | | | | 46 53.41 | | | + 8.36 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .39 | |
| | | | | | | | | | | −6.90 | |
| +2.83 $\delta_2$ | | 32 46.62 | | 46 35.4 | | | | | | 46 55.23 | |
| −19.85 | | | | | | | | | | | |
| | +11.2 | 1 24.2 | 30.9 | 51 | 27.55 | 51 31 20.80 | | | 50 | 51 41 27.59 | |
| 24 d | 1.04922 | | | | | 41 36.53 | | | | − 3 | +9.68 |
| | 9.79224 | | | | | − 8.94 | | | | − 1 | |
| ((δ) − D) $\frac{d'}{100}$ | 0.95188 m | | | | | | 41 27.59 | | | + 9.34 | |
| | | | | | | | | | | + .38 | |
| | | | | | | | | | | − 6.70 | |
| +2.82 $\delta_1$ | | 33 55.76 | | 41 10.7 | | | | | | 41 30.57 | |
| −19.84 | | | | | | | | | | | |
| | +12.0 | 1 23.7 | 34.1 | 51 | 28.90 | 51 31 19.45 | | | 50 | ~~28.97~~ | 26.97 |
| | 1.07918 | | | | | 41 36.55 | | | | − 4 | +9.60 |
| d | 9.79224 | | | | | − 9.58 | | | | − 1 | |
| | 0.98134 m | | | | | | 41 28.97 | | | + 9.27 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .38 | |
| | | | | | | | | | | − 6.80 | |
| +2.82 $\delta_2$ | | 33 55.86 | | 41 9.9 | | | | | | 48 ~~31.77~~ | 29.77 |
| −19.84 | | | | | | | | | | | |
| | +14.0 | 2 25.5 | 30.9 | 22 | 28.20 | 52 0 20.15 | | | 20 | 52 10 24.82 | |
| | 1.14613 | | | | | 10 35.88 | | | | − 5 | +10.17 |
| 26 d | 9.78756 | | | | | − 11.06 | | | | − 2 | |
| | 1.04361 m | | | | | | 10 24.82 | | | + 9.84 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 6.80 | |
| +2.81 $\delta_1$ | | 34 43.34 | | 10 8.4 | | | | | | 10 28.19 | |
| −19.83 | | | | | | | | | | | |
| | +8.5 | 2 28.9 | 40.2 | 22 | 34.55 | 52 0 13.80 | | | 20 | 24.19 | |
| | 0.92942 | | | | | 10 30.90 | | | | − 2 | +10.12 |
| d | 9.78756 | | | | | − 6.71 | | | | − 2 | |
| | 0.82690 m | | | | | | 10 24.19 | | | + 9.76 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 6.90 | |
| +2.81 $\delta_2$ | | 34 43.47 | | 10 7.6 | | | | | | 10 27.41 | |
| −19.83 | | | | | | | | | | | |
| | +25.0 | 3 1.4 | 6.8 | 43 | 4.10 | 51 39 44.25 | | | 40 | 51 49 39.29 | |
| | 1.41497 | | | | | 49 59.98 | | | | − 18 | +9.68 |
| 14 d | 9.79095 | | | | | − 20.69 | | | | − 3 | |
| | 1.31584 m | | | | | | 49 39.29 | | | + 9.49 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 6.60 | |
| +2.80 $\delta_1$ | | 36 9.66 | | 49 22.6 | | | | | | 49 42.37 | |
| −19.81 | | | | | | | | | | | |
| | +20.6 | 3 3.0 | 12.8 | 43 | 7.90 | 51 39 40.45 | | | 40 | 41.15 | |
| | 1.31387 | | | | | 49 57.55 | | | | − .12 | +9.67 |
| d | 9.79095 | | | | | − 16.40 | | | | − 3 | |
| | 1.21474 m | | | | | | 49 41.15 | | | + 9.42 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 6.70 | |
| +2.80 $\delta_2$ | | 36 9.84 | | 49 24.3 | | | | | | 49 44.12 | |
| −19.81 | | | | | | | | | | | |
| | +25.2 | 2 51.4 | 57.7 | 27 | 54.55 | 51 54 53.80 | | | 25 | 52 4 49.58 | |
| | 1.40140 | | | | | 52 5 9.53 | | | | − 17 | +9.95 |
| 18 d | 9.78853 | | | | | − 19.95 | | | | − 3 | |
| | 1.29985 m | | | | | | 4 49.58 | | | + 9.75 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 6.50 | |
| +2.79 $\delta_1$ | | 38 2.21 | | 4 33.2 | | | | | | 4 53.03 | |
| −19.78 | | | | | | | | | | | |
| | +28.6 | 2 46.8 | 57.8 | 27 | 52.30 | 51 54 56.05 | | | 25 | 60.57 | |
| | 1.45637 | | | | | 52 5 13.15 | | | | − .22 | +9.83 |
| d | 9.78853 | | | | | − 22.64 | | | | − 3 | |
| | 1.35482 m | | | | | | 4 50.51 | | | + 9.68 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 6.60 | |
| +2.79 $\delta_2$ | | 38 2.37 | | 4 34.0 | | | | | | 4 53.74 | |
| −19.78 | | | | | | | | | | | |

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302

Date$_1$ = May 27, 1874 Observer J. A. R. Recorder J. F. M.

303

Date$_2$ = May 28, 1874 Observer Recorder

80

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 42 | 39 | 12 53 04 | 9.0 | 39 59.3 | 38 21.6 | 25.0 | 28.6 | 31.8 | 35.2 | | | 38 | 28.54 |
| | 38 | 24.4 53 9.8 | 8.9 | 2.7 | | | | | | | | + | 51.67 |
| | | | | 6.4 | | | | | | | | − | .29 |
| | | | | 62.8 | | | | | | | + 51.36 | − | .2 |
| | | | | | | | | | | | | 39 | 19.80 |
| | | | | | | | | | | | | − | 2.35 |
| | | | | | | | | | | | | 39 | 17.45 |
| | | | 9.0 | 39 58.6 | 38 21.0 | 24.5 | 28.3 | 31.5 | 34.9 | | | 38 | 28.04 |
| | | | | 1.6 | | | | | | | | + | 52.11 |
| | | | | 4.7 | | | | | | | | − | .41 |
| | | | | 61.3 | | | | | | | + 51.68 | − | .2 |
| | | | | | | | | | | | | 39 | 19.72 |
| | | | | | | | | | | | | − | 2.33 |
| | | | | | | | | | | | | 39 | 17.39 |
| | 39 | 54 52 11 | 9.2 | 38 56.9 | 39 3.4 | 7.1 | 10.3 | 13.5 | 17.0 | | | 39 | 10.26 |
| | 39 | 7.6 52 17.0 | 9.3 | 59.6 | | | | | | | | + | 51.67 |
| | | | | 2.3 | | | | | | | | − | .28 |
| | | | | 57.6 | | | | | | | + 51.37 | − | .2 |
| | | | | | | | | | | | | 40 | 1.63 |
| | | | | | | | | | | | | − | 2.31 |
| | | | | | | | | | | | | 39 | 59.32 |
| | | | 9.3 | 38 36.5 | 39 3.1 | 6.3 | 9.5 | 13.3 | 16.7 | | | 39 | 9.84 |
| | | | | 59.1 | | | | | | | | + | 52.11 |
| | | | | 3.5 | | | | | | | | − | .40 |
| | | | | 57.1 | | | | | | | + 51.69 | − | .2 |
| | | | | | | | | | | | | 40 | 1.53 |
| | | | | | | | | | | | | − | 2.29 |
| | | | | | | | | | | | | 39 | 59.24 |
| | 40 | 57 52 18 | 8.0 | 40 5.7 | 40 6.7 | 10.0 | 13.3 | 16.7 | 20.2 | | | 40 | 13.38 |
| | 40 | 10.2 52 23.7 | 7.4 | 8.6 | | | | | | | | + | 51.68 |
| | | | | 13.6 | | | | | | | | − | .29 |
| | | | | 8.9 | | | | | | | + 51.37 | − | .2 |
| | | | | | | | | | | | | 41 | 4.75 |
| | | | | | | | | | | | | − | 2.32 |
| | | | | | | | | | | | | 40 | 24.33 2.43 |
| | | | 8.2 | 39 59.6 | 40 6.5 | 9.8 | 13.2 | 16.4 | 19.9 | | | 40 | 13.16 |
| | | | | 2.7 | | | | | | | | + | 52.11 |
| | | | | 5.1 | | | | | | | | − | .40 |
| | | | | 62.7 | | | | | | | + 51.69 | − | .2 |
| | | | | | | | | | | | | 41 | 4.85 |
| | | | | | | | | | | | | − | 2.30 |
| | | | | | | | | | | | | 41 | 2.55 |
| | 41 | 58 50 51 | 6.9 | 40 55.4 | 41 6.6 | 9.8 | 13.1 | 16.5 | 19.6 | | | 41 | 13.08 |
| | 41 | 11.2 50 56.9 | 6.5 | 58.2 | | | | | | | | + | 51.68 |
| | | | | 0.5 | | | | | | | | − | .27 |
| | | | | 58.0 | | | | | | | + 51.39 | − | .2 |
| | | | | | | | | | | | | 42 | 4.47 |
| | | | | | | | | | | | | − | 2.26 |
| | | | | | | | | | | | | 42 | 2.21 |
| | | | 7.0 | 41 0.3 | 41 6.2 | 9.0 | 12.8 | 16.0 | 19.2 | | | 41 | 12.74 |
| | | | | 3.3 | | | | | | | | + | 52.11 |
| | | | | 5.9 | | | | | | | | − | .38 |
| | | | | 2.2 | | | | | | | + 51.71 | − | .2 |
| | | | | | | | | | | | | 42 | 4.45 |
| | | | | | | | | | | | | − | 2.25 |
| | | | | | | | | | | | | 42 | 2.20 |
| | 43 | 03 50 47 | 9.2 | 42 4.7 | 42 16.4 | 19.9 | 23.1 | 26.4 | 29.6 | | | 42 | 23.08 |
| | 42 | 16.4 50 52.5 | 9.0 | 11.5 | | | | | | | | + | 51.68 |
| | | | | 15.7 | | | | | | | | − | .27 |
| | | | | 11.6 | | | | | | | + 51.39 | − | .2 |
| | | | | | | | | | | | | 43 | 14.47 |
| | | | | | | | | | | | | − | 2.27 |
| | | | | | | | | | | | | 43 | 12.20 |
| | | | 9.2 | 42 1.5 | 42 15.9 | 19.3 | 22.7 | 25.8 | 29.2 | | | 42 | 22.58 |
| | | | | 4.1 | | | | | | | | + | 52.11 |
| | | | | 7.1 | | | | | | | | − | .38 |
| | | | | 4.2 | | | | | | | + 51.71 | − | .2 |
| | | | | | | | | | | | | 43 | 14.29 |
| | | | | | | | | | | | | − | 2.25 |
| | | | | | | | | | | | | 43 | 12.04 |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | s | 4′ 11″.7 | 17″.4 | 29″ | 14.55 | 52 53 38.80 | | | 25″ | 53 3 30.12 | |
| | +25.6 | | | | | 53 3 49.53 | | | | − 18 | +10.94 |
| 40 d | 1.408224 | | | | | | −19.41 | | | − 4 | |
| | 9.977879 | | | | | | | 3 30.12 | | + 10.76 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.287795 m | | | | | | | | | + .40 | |
| | | | | | | | | | | − 6.70 | |
| +2.77 $\delta_1$ | | 39 20.22 | 3 14.6 | | | | | | | 3 34.36 | |
| −19.76 | | | | | | | | | | | |
| | +26.7 | 4 11.0 | 20.0 | 29 | 15.50 | 52 53 32.85 | | | 25″ | 29.29 | |
| | | | | | | 53 3 49.95 | | | | − .15 | +10.85 |
| d | 1.426511 | | | | | | −20.66 | | | − 4 | |
| | 9.977879 | | | | | | | 3 29.29 | | + 10.68 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.315222 m | | | | | | | | | + .40 | |
| | | | | | | | | | | − 6.80 | |
| +2.77 $\delta_2$ | | 39 20.16 | 3 13.6 | | | | | | | 3 33.34 | |
| −19.76 | | | | | | | | | | | |
| | +10.7 | 2 37.5 | 43.0 | 22 | 40.25 | 52 0 8.10 | | | 20 | 52 10 15.38 | |
| | | | | | | 10 23.83 | | | | − 3 | +10.18 |
| 42 d | 1.102938 | | | | | | −8.45 | | | − 3 | |
| | 9.978772 | | | | | | | 10 15.38 | | + 9.84 | |
| ((δ) − D) $\frac{d'}{100}$ | 0.921072 m | | | | | | | | | + .40 | |
| | | | | | | | | | | − 6.40 | |
| +2.77 $\delta_1$ | | 40 2.09 | 9 59.4 | | | | | | | 10 19.16 | |
| −19.75 | | | | | | | | | | | |
| | +10.1 | 2 37.7 | 47.0 | 22 | 42.35 | 52 0 6.00 | | | 20 | 15.12 | |
| | | | | | | 10 23.10 | | | | − 3 | +10.11 |
| d | 1.004321 | | | | | | −7.98 | | | − 3 | |
| | 9.978772 | | | | | | | 10 15.12 | | + 9.77 | |
| ((δ) − D) $\frac{d'}{100}$ | 0.901961 m | | | | | | | | | + .40 | |
| | | | | | | | | | | − 6.60 | |
| +2.77 $\delta_2$ | | 40 2.01 | 9 58.9 | | | | | | | 10 18.63 | |
| −19.75 | | | | | | | | | | | |
| | +4.5 | 3 29.4 | 35.1 | 13 | 32.25 | 52 9 16.10 | | | 10 | 52 19 28.29 | |
| | | | | | | 19 31.83 | | | | − 1 | +10.36 |
| 22 d | 0.653211 | | | | | | −3.54 | | | − 3 | |
| | 9.978609 | | | | | | | 19 28.29 | | +10.00 | |
| ((δ) − D) $\frac{d'}{100}$ | 0.549222 m | | | | | | | | | + .40 | |
| | | | | | | | | | | − 6.40 | |
| +2.76 $\delta_1$ | | 41 5.19 | 19 12.5 | | | | | | | 19 32.25 | |
| −19.73 | | | | | | | | | | | |
| | +10.5 | 3 23.8 | 33.8 | 13 | 28.80 | 52 9 19.55 | | | 10 | 28.39 | |
| | | | | | | 19 36.65 | | | | − 3 | +10.27 |
| d | 1.021192 | | | | | | − 8.26 | | | − 3 | |
| | 9.978609 | | | | | | | 19 28.39 | | + 9.93 | |
| ((δ) − D) $\frac{d'}{100}$ | 0.917201 m | | | | | | | | | + .40 | |
| | | | | | | | | | | − 6.50 | |
| +2.76 $\delta_2$ | | 41 5.31 | 19 12.4 | | | | | | | 19 32.16 | |
| −19.73 | | | | | | | | | | | |
| | +15.1 | 2 9.5 | 13.7 | 42 | 11.60 | 50 40 36.78 | | | 40 | 50 50 40.20 | |
| | | | | | | 50 52.48 | | | | − 6 | +8.75 |
| 34 d | 1.178982 | | | | | | −12.28 | | | − 2 | |
| | 9.980027 | | | | | | | 50 40.20 | | + 8.49 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.089171 m | | | | | | | | | + .34 | |
| | | | | | | | | | | −6.00 | |
| +2.77 $\delta_1$ | | 42 4.98 | 50 23.2 | | | | | | | 50 42.95 | |
| −19.72 | | | | | | | | | | | |
| | +9.5 | 2 13.0 | 22.3 | 42 | 17.65 | 50 40 30.70 | | | 40 | 40.08 | |
| | | | | | | 50 47.80 | | | | − .2 | +8.72 |
| d | 0.977721 | | | | | | −7.72 | | | − 2 | |
| | 9.980027 | | | | | | | 50 40.08 | | + 8.42 | |
| ((δ) − D) $\frac{d'}{100}$ | 0.887911 m | | | | | | | | | + .34 | |
| | | | | | | | | | | − 6.10 | |
| +2.77 $\delta_2$ | | 42 4.97 | 50 23.0 | | | | | | | 50 42.70 | |
| −19.72 | | | | | | | | | | | |
| | +11.5 | 1 10.3 | 15.8 | 46 | 13.05 | 50 36 35.30 | | | 45 | 50 46 41.67 | |
| | | | | | | 46 51.03 | | | | − 5 | +8.72 |
| d | 1.060701 | | | | | | −9.86 | | | − 1 | |
| | 9.980089 | | | | | | | 46 41.67 | | + 8.42 | |
| ((δ) − D) $\frac{d'}{100}$ | 0.971511 m | | | | | | | | | + .34 | |
| | | | | | | | | | | − 5.80 | |
| +2.76 $\delta_1$ | | 43 14.96 | 46 24.9 | | | | | | | 46 44.59 | |
| −19.70 | | | 46 | | | | | | | | |
| | +18.4 | 0 3.0 | 12.5 | 45 | 7.75 | 50 37 40.60 | | | 45 | 42.72 | |
| | | | | | | 47 57.70 | | | | − 9 | +8.60 |
| d | 1.264821 | | | | | | −14.98 | | | − 1 | |
| | 9.980074 | | | | | | | 47 42.72 | | + 8.35 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.175481 m | | | | | | | | | + .34 | |
| | | | | | | | | | | − 6.00 | |
| +2.76 $\delta_2$ | | 43 14.80 | 46 25.6 | | | | | | | 46 45.32 | |
| −19.70 | | | | | | | | | | | |

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Date$_1$ = May 27, 1874 (302) Observer / Recorder J.A.R. / J.F.M.

Date$_2$ = May 28, 1874 (303) Observer / Recorder

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 43 | 54 52 14 | 8.9 | 42 56.2 | 43 4.0 | 7.1 | 10.4 | 13.7 | 17.0 | | | 43 | 10.44 |
| | 43 | 7.6 52 19.5 | 9.0 | 58.8 | | | | | | | | + | 51.68 |
| κ | | | | 3.0 | | | | | | | | − | .28 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 57.3 | | | | | | | + 51.38 | − | 2 |
| $c_1$ | | | | | | | | | | | | 44 | 1.82 |
| | | | | | | | | | | | | − | 2.33 |
| | | | | | | | | | | | | 43 | 59.49 |
| | | | 8.7 | 42 47.8 | 43 3.1 | 6.7 | 10.1 | 13.3 | 16.7 | | | 43 | 9.98 |
| | | | | 57.3 | | | | | | | | + | 52.11 |
| κ | | | | 54.3 | | | | | | | | − | .40 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 51.1 | | | | | | | + 51.69 | − | 2 |
| $c_2$ | | | | | | | | | | | | 44 | 1.67 |
| | | | | | | | | | | | | − | 2.31 |
| | | | | | | | | | | | | 43 | 59.36 |
| | 44 | 59 51 29 | 9.1 | 43 46.1 | 44 10.8 | 14.2 | 17.7 | 20.7 | 24.0 | | | 44 | 17.48 |
| | 44 | 12.7 51 35.0 | 9.0 | 49.0 | | | | | | | | + | 51.68 |
| κ | | | | 52.3 | | | | | | | | − | .28 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 49.1 | | | | | | | + 51.38 | − | 2 |
| $a_1$ | | | | | | | | | | | | 45 | 8.86 |
| | | | | | | | | | | | | − | 2.31 |
| | | | | | | | | | | | | 45 | 6.55 |
| | | | 9.2 | 43 58.2 | 44 7.0 10.7 | 14.0 | + | 20.6 | 23.8 | | | 44 | 17.3 17.6 |
| | | | | 2.0 | | | | | | | | + | 52.11 |
| κ | | | | 4.8 | | | | | | | | − | .39 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 61.7 | | | | | | | + 51.70 | − | 2 |
| $a_2$ | | | | | | | | | | | | 45 | 9.05 |
| | | | | | | | | | | | | − | 2.29 |
| | | | | | | | | | | | | 45 | 6.7 0 69 |
| | 46 | 32 50 59 | 8.0 | 45 16.1 | | | | | | | | 45 | 48.4 |
| | 45 | 45.7 51 4.3 | 8.0 | 45 26.9 | 45 42.7 | 45.6 | 48.8 | 52.2 | 55.4 | | | + | 51.68 |
| κ | | | | 30.3 | | | | | | | | − | .27 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 33.5 | | | | | | | + 51.39 | − | 2 |
| $a_1$ | | | | 30.3 | | | | | | | | 46 | 40.23 |
| | | | | | | | | | | | | − | 2.30 |
| | | | | | | | | | | | | 46 | 37.93 |
| | | | 8.2 | 45 16.1 | 45 42.1 | 45.2 | 48.9 | 51.9 | 55.0 | | | 45 | 48.58 |
| | | | | 20.0 | | | | | | | | + | 52.11 |
| κ | | | | 23.0 | | | | | | | | − | 38 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 17.7 | | | | | | | + 51.71 | − | 2 |
| $a_2$ | | | | | | | | | | | | 46 | 40.29 |
| | | | | | | | | | | | | − | 2.28 |
| | | | | | | | | | | | | 46 | 59.15 38.01 |
| | 48 | 32 50 26 | 9.4 | 47 22.3 | 47 42.8 | 46.2 | 49.9 | 52.9 | 56.0 | | | 47 | 49.56 |
| | 47 | 46.0 50 31.1 | 9.5 | 25.3 | | | | | | | | + | 51.69 |
| κ | | | | 29.5 | | | | | | | | − | .27 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 25.7 | | | | | | | + 51.40 | − | 2 |
| $a_1$ | | | | | | | | | | | | 48 | 40.96 |
| | | | | | | | | | | | | − | 2.29 |
| | | | | | | | | | | | | 48 | 38.67 |
| | | | 9.5 | 47 23.2 | 47 42.3 | 45.9 | 49.3 | 52.4 | 55.5 | | | 47 | 49.08 |
| | | | | 25.4 | | | | | | | | 4 | 52.11 |
| κ | | | | 29.4 | | | | | | | | − | .38 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 26.2 | | | | | | | + 51.71 | − | 2 |
| $a_2$ | | | | | | | | | | | | 48 | 40.79 |
| | | | | | | | | | | | | − | 2.27 |
| | | | | | | | | | | | | 48 | 38.52 |
| | 49 | 23 50 09 | 8.5 | 48 25.3 | 48 31.7 | 35.1 | 38.2 | 41.5 | 44.9 | | | 48 | 38.24 |
| | 48 | 37.9 50 14.2 | 8.5 | 29.4 | | | | | | | | + | 51.69 |
| κ | | | | 31.2 | | | | | | | | − | .26 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 28.1 | | | | | | | + 51.41 | − | 2 |
| $a_1$ | | | | | | | | | | | | 49 | 29.65 |
| | | | | | | | | | | | | − | 2.28 |
| | | | | | | | | | | | | 49 | 27.37 |
| | | | 8.4 | 48 15.4 | 48 31.5 | 34.8 | 37.9 | 41.1 | 44.3 | | | 48 | 37.52 |
| | | | | 18.5 | | | | | | | | + | 52.11 |
| κ | | | | 21.7 | | | | | | | | − | .37 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 18.5 | | | | | | | + 51.72 | − | 2 |
| $a_2$ | | | | | | | | | | | | 49 | 29.64 |
| | | | | | | | | | | | | − | 2.26 |
| | | | | | | | | | | | | 49 | 27.38 |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +19.1 | 4 33.0 | 38.6 | 19 | 35.80 | 52 3 12.55 | | | 15 | 52 13 ~~13.21~~ 20.32 | |
| | 1.28103 | 1.00432 | | | | 13 28.28 | | | | − .10 | +10.15 |
| 46 d | 9.78707 | 9.78707 | | | | − ~~15.07~~ | | | | − 5 | |
| | 1.17802 | m 0992 | | | | 7.96 | 13 | 13.21 | | + 990 | |
| | | 90131 | | | | | | | | + 40 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | − 6.20 | |
| +2.74 $\delta_1$ | | 44 2.23 | | 13 4.7 | | | | | | 13 ~~17.16~~ 24.37 | |
| −19.69 | | | | | | | | | | | |
| | +17.9 | 4 26.1 | 36.9 | 19 | 31.00 | 52 3 17.35 | | | 15 | 19.54 | |
| | 1.27646 | | | | | 13 34.45 | | | | − .10 | +10.08 |
| d | 9.78707 | | | | | − 14.91 | | | | − 4 | |
| | 1.17345 | m | | | | | 13 | 19.54 | | + 982 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| +2.74 | | | | | | | | | | − 6.30 | |
| −19.69 $\delta_2$ | | 44 2.10 | | 13 3.6 | | | | | | 13 23.32 | |
| | +28.4 | 3 19.1 | 24.5 | 3 | 21.80 | 51 19 26.55 | | | 0 | 51 29 19.51 | |
| | 1.45332 | | | | | 29 42.28 | | | | − .2 | +9.28 |
| d | 9.79415 | | | | | −22.77 | | | | − 3 | |
| | 1.35739 | m | | | | | 29 | 19.51 | | + 9.15 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .37 | |
| +2.74 | | | | | | | | | | − 5.90 | |
| −19.67 $\delta_1$ | | 45 9.29 | | 29 3.2 | | | | | | 29 22.89 | |
| | +15.6 | 3 27.8 | 37.9 | 3 | 32.85 | 51 19 15.50 | | | 0 | 20.09 | |
| | 1.19312 | | | | | 29 32.60 | | | | − .7 | +9.35 |
| d | 9.79415 | | | | | −12.51 | | | | − 6 | |
| | 1.09719 | m | | | | | 29 | 20.09 | | + 9.08 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .37 | |
| +2.74 $\delta_2$ | | | | | | | | | | − 6.10 | |
| −19.67 | | 45 9.43 | | 29 3.7 | | | | | | 29 23.34 | |
| | +18.6 | 4 46.1 | 54.5 | 34 | 48.30 | 50 48 0.05 | | | 30 | 50 58 0.69 | |
| | 1.26951 | | | | | 58 15.78 | | | | − .10 | +8.83 |
| 26 d | 9.79918 | | | | | − 15.09 | | | | − 5 | |
| | 1.17861 | m | | | | | 58 | 0.69 | | + 8.63 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .35 | |
| +2.74 $\delta_1$ | | | | | | | | | | − 5.70 | |
| −19.64 | | 46 40.67 | | 57 44.2 | | | | | | 58 3.82 | |
| | +28.9 | 4 38.0 | 46.9 | 34 | 42.45 | 50 48 5.90 | | | 30 | 57 59.56 | |
| | 1.46090 | | | | | 58 23.00 | | | | − .22 | +8.64 |
| d | 9.79918 | | | | | −23.44 | | | | − 5 | |
| | 1.37008 | m | | | | | 57 | 59.56 | | + 8.56 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .35 | |
| +2.74 | | | | | | | | | | − 5.90 | |
| −19.64 $\delta_2$ | | 46 40.75 | | 57 42.7 | | | | | | 58 2.30 | |
| | +23.9 | 2 36.2 | 0.4 | 7 | 5.830 | 50 14 50.05 | | | 5 | 50 24 46.16 | |
| | 1.37840 | | | | | 25 5.78 | | | | − .15 | +8.19 |
| d | 9.80428 | | | | | −19.62 | | | | − 3 | |
| | 1.29260 | m | | | | | 24 | 46.16 | | + 8.05 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .32 | |
| +2.73 | | | | 3 | | | | | | − 5.40 | |
| −19.60 $\delta_1$ | | 48 41.40 | | 24 29.4 | | | | | | 24 48.95 | |
| | +22.9 | 2 56.9 | 5.1 | 8 | 1.00 | 50 14 47.35 | | | 5 | 45.66 | |
| | 1.35984 | | | | | 25 4.45 | | | | − .14 | +8.14 |
| d | 9.80428 | | | | | −18.79 | | | | − 3 | |
| | 1.27404 | m | | | | | 24 | 45.66 | | + 7.99 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .32 | |
| +2.73 | | | | | | | | | | − 5.60 | |
| −19.60 $\delta_2$ | | 48 41.25 | | 24 28.6 | | | | | | 24 ~~48.20~~ | |
| | +10.1 | 0 34.0 | 39.5 | 25 | 36.75 | 49 57 11.60 | | | 25 | 50 7 18.99 | |
| | 1.00432 | | | | | 50 7 27.33 | | | | − .3 | +8.03 |
| 32 d | 9.80701 | | | | | − 8.34 | | | | − 1 | |
| | 0.92125 | m | | | | | 7 | 18.99 | | + 7.76 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .31 | |
| +2.73 | | | | | | | | | | − 5.30 | |
| −19.59 $\delta_1$ | | 49 30.10 | | 7 2.1 | | | | | | 7 21.72 | |
| | +19.4 | 0 25.7 | 35.9 | 25 | 30.80 | 49 57 17.55 | | | 25 | 18.63 | |
| | 1.28780 | | | | | 50 7 34.65 | | | | − .10 | +7.90 |
| d | 9.80701 | | | | | − 16.02 | | | | − 1 | |
| | 1.20473 | m | | | | | 7 | 18.63 | | + 7.70 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .31 | |
| +2.73 | | | | | | | | | | − 5.50 | |
| −19.59 $\delta_2$ | | 49 30.11 | | 7 1.4 | | | | | | 7 21.03 | |

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Date$_1$ = May 27, 1874 Observer W. A. R. Recorder J. F. M.

303

Date$_2$ = May 28, 1874 Observer Recorder

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| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 2h | 50m 42 | 50 02 | 9.2 | 49m 34.0s | 49m 58.8s | 53.9 | 57.4 | 0.3 | 3.6 | | | m 49 | 57.20 |
| | 49 56.0 | 50 7.3 | 9.4 | 39.4 | | | | | | | | + | 51.69 |
| | κ | | | 40.5 | | | | | | | | − | .26 |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 37.3 | | | | | | | + 51.41 | − | 2 |
| | $a_1$ | | | | | | | | | | | 50 | 48.61 |
| | | | | | | | | | | | | − | 2.28 |
| | | | | | | | | | | | | 50 | 46.33 |
| | | | 9.2 | 49 33.6 | 49 50.3 | 53.7 | 56.9 | 0.4 | 3.2 | | | 49 | 56.90 |
| | | | | 36.3 | | | | | | | | + | 52.11 |
| | κ | | | 40.4 | | | | | | | | − | .37 |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 36.4 | | | | | | | + 51.72 | − | 2 |
| | $a_2$ | | | | | | | | | | | 50 | 48.62 |
| | | | | | | | | | | | | − | 2.26 |
| | | | | | | | | | | | | 50 | 46.36 |
| | 51 38 | 50 15 | 9.2 | 50 33.7 | 50 47.7 | 51.0 | 54.4 | 58.6 | 0.8 | | | 50 | 54.30 |
| | 50 52.7 | 50 20.7 | 9.0 | 37.0 | | | | | | | | + | 51.69 |
| | κ | | | 40.5 | | | | | | | | − | .26 |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 37.1 | | | | | | | + 51.41 | − | 2 |
| | $a_1$ | | | | | | | | | | | 51 | 45.71 |
| | | | | | | | | | | | | − | 2.29 |
| | | | | | | | | | | | | 51 | 43.42 |
| | | | 8.9 | 50 35.6 | 50 47.5 | 50.9 | 53.9 | 57.1 | 0.3 | | | 50 | 53.94 |
| | | | | 39.0 | | | | | | | | + | 52.11 |
| | κ | | | 42.4 | | | | | | | | − | .37 |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 39.0 | | | | | | | + 51.72 | − | 2 |
| | $a_2$ | | | | | | | | | | | 51 | 45.06 |
| | | | | | | | | | | | | − | 2.27 |
| | | | | | | | | | | | | 51 | 43.39 |
| | 52 43 | 49 58 | 9.2 | 51 43.7 | 52 2.6 | 6.0 | 9.1 | 12.1 | 15.3 | | | 52 | 9.02 |
| | ~~51 57.4~~ | 50 3.X | 9.4 | 46.5 | | | | | | | | + | 51.69 |
| | 52 κ 6.3 | .2 | | 49.6 | | | | | | | | − | 26 |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 46.6 | | | | | | | + 51.41 | − | 2 |
| | $a_1$ | | | | | | | | | | | 53 | 0.43 |
| | | | | | | | | | | | | − | 2.33 |
| | | | | | | | | | | | | 52 | 58.10 |
| | | | 9.4 | 51 44.8 | 52 2.5 | 5.5 | 8.9 | 12.1 | 15.2 | | | 52 | 8.84 |
| | | | | 48.9 | | | | | | | | + | 52.11 |
| | κ | | | 51.3 | | | | | | | | − | .37 |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 47.3 | | | | | | | + 51.72 | − | 2 |
| | $a_2$ | | | | | | | | | | | 53 | 0.56 |
| | | | | | | | | | | | | − | 2.31 |
| | | | | | | | | | | | | 52 | 58.25 |
| | 53 56 | 53 35 | 8.3 | 52 49.5 | 53 3.7 | 7.2 | 10.7 | 14.2 | 17.6 | | | 53 | 10.68 |
| | 53 10.8 | 53 40.4 | 8.8 | 53.2 | | | | | | | | + | 51.69 |
| | κ | | | 56.2 | | | | | | | | − | .30 |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 53.0 | | | | | | | + 51.36 | − | 3 |
| | $a_1$ | | | | | | | | | | | 54 | 2.04 |
| | | | | | | | | | | | | − | 2.46 |
| | | | | | | | | | | | | 53 | 59.58 |
| | | | 8.3 | 52 54.2 | 53 3.4 | 6.8 | 10.4 | 13.9 | 17.4 | | | 53 | 10.38 |
| | | | | 59.3 | | | | | | | | + | 52.11 |
| | κ | | | 0.8 | | | | | | | | − | .42 |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 57.4 | | | | | | | + 51.66 | − | 3 |
| | $a_2$ | | | | | | | | | | | 54 | 2.18 |
| | | | | | | | | | | | | − | 2.44 |
| | | | | | | | | | | | | 53 | 59.60 |
| | 55 03 | 50 19 | 8.7 | 53 53.0 | 54 12.0 | 15.2 | 18.3 | 21.5 | 24.8 | | | 54 | 18.36 |
| | 54 18.0 | 50 24.1 | 8.7 | 54.6 | | | | | | | | + | 51.69 |
| | κ | | | 0.1 | | | | | | | | − | .26 |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 57.6 | | | | | | | + 51.41 | − | 2 |
| | $a_1$ | | | | | | | | | | | 55 | 9.77 |
| | | | | | | | | | | | | − | 2.31 |
| | | | | | | | | | | | | 55 | 7.46 |
| | | | 8.8 | 53 52.3 | 54 11.6 | 15.0 | 18.1 | 21.3 | 24.6 | | | 54 | 18.12 |
| | | | | 53.3 | | | | | | | | + | 52.11 |
| | κ | | | 58.6 | | | | | | | | − | 37 |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 55.4 | | | | | | | + 51.72 | − | 2 |
| | $a_2$ | | | | | | | | | | | 55 | 9.87 |
| | | | | | | | | | | | | − | 2.36 |
| | | | | | | | | | | | | 54 | 7.54 |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2′ 54.1 | 59.3 | 32′ | 56.70 | 49 49 51.65 | | | 30′ | 49 59 50.90 | |
| | +19.9 | | | | | 50 0 7.38 | | | | − .11 | +7.79 |
| 30 d | 1.29885 | | | | | −16.48 | | | | − .3 | |
| | 9.80807 | | | | | | 49 59 50.90 | | | + 7.63 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.21684 m | | | | | | | | | + .30 | |
| | | | | | | | | | | − 5.20 | |
| +2.72 $\delta_1$ | | 50 49.05 | | 59 33.9 | | | | | | 59 53.49 | |
| | +20.1 | 2 53.0 | 2.1 | 32 | 58.05 | 49 49 50.30 | | | 30 | 50.76 | |
| | | | | | | 50 0 7.40 | | | | − .11 | +7.73 |
| d | 1.30320 | | | | | −16.64 | | | | − .3 | |
| | 9.80807 | | | | | | 59 50.76 | | | − 7.57 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.22119 m | | | | | | | | | + .30 | |
| | | | | | | | | | | − 5.40 | |
| +2.72 $\delta_2$ | | 50 49.08 | | 59 33.5 | | | | | | 59 53.09 | |
| | +17.2 | 3 58.8 | 2.2 | 19 | 1.00 | 50 3 47.35 | | | 15′ | 50 13 48.91 | |
| | | | | | | 14 3.08 | | | | − .8 | +8.06 |
| 36 d | 1.23553 | | | | | −14.17 | | | | − .4 | |
| | 9.80595 | | | | | | 13 48.91 | | | + 7.87 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.15140 m | | | | | | | | | + .31 | |
| | | | | | | | | | | − 5.20 | |
| +2.71 $\delta_1$ −19.54 | | 51 46.13 | | 13 32.2 | | | | | | 13 51.77 | |
| | +14.9 | 3 59.3 | 8.0 | 19 | 3.65 | 50 3 44.70 | | | 15′ | 49.52 | |
| | | | | | | 14 1.80 | | | | − 6 | +8.02 |
| d | 1.17319 | | | | | −12.28 | | | | − .4 | |
| | 9.80595 | | | | | | 13 49.52 | | | + 7.81 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.08906 m | | | | | | | | | + .31 | |
| | | | | | | | | | | − 5.40 | |
| +2.71 $\delta_2$ −19.54 | | 51 46.10 | | 13 32.6 | | | | | | 13 52.14 | |
| | +22.4 | 0 43.9 | 48.9 | 35 | 46.40 | 49 47 1.95 | | | 35′ | 49 56 59.12 | |
| | | | | | | 57 17.68 | | | | − 13 | +7.79 |
| 16 d | 1.35025 | | | | | −18.56 | | | | − 1 | |
| | 9.80852 | | | | | | 56 59.12 | | | + 7.63 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.26869 m | | | | | | | | | + .30 | |
| | | | | | | | | | | − 5.30 | |
| +2.71 $\delta_1$ −19.52 | | 53 0.81 | | 56 42.1 | | | | | | 57 1.61 | |
| | +20.5 | 0 44.5 | 52.8 | 35 | 49.65 | 49 46 58.70 | | | 35′ | 58.81 | |
| | | | | | | 57 15.80 | | | | − 11 | +7.76 |
| d | 1.31175 | | | | | −16.99 | | | | − 1 | |
| | 9.80852 | | | | | | 56 58.81 | | | + 7.58 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.23019 m | | | | | | | | | + .30 | |
| | | | | | | | | | | − 5.40 | |
| +2.71 $\delta_2$ −19.52 | | 53 0.96 | | 56 41.6 | | | | | | 57 1.17 | |
| | +17.7 | 4 28.1 | 33.0 | 59 | 30.55 | 53 23 17.80 | | | 55′ | 53 23 19.99 | |
| | | | | | | 33 33.83 | | | | − 8 | +11.56 |
| 30 d | 1.24797 | | | | | −13.54 | | | | − 4 | |
| | 9.77370 | | | | | | 33 19.99 | | | + 11.28 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.13159 m | | | | | | | | | + .40 | |
| | | | | | | | | | | − 5.70 | |
| +2.65 $\delta_1$ −19.50 | | 54 2.23 | | 33 6.4 | | | | | | 33 26.85 | |
| | +13.0 | 4 30.8 | 39.7 | 59 | 35.25 | 53 23 13.10 | | | 55′ | 20.26 | |
| | | | | | | 33 30.20 | | | | − 5 | +11.50 |
| d | 1.11394 | | | | | −9.94 | | | | − 5 | |
| | 9.77370 | | | | | | 33 20.26 | | | +11.20 | |
| ((δ) − D) $\frac{d'}{100}$ | 0.99756 m | | | | | | | | | + .40 | |
| | | | | | | | | | | − 6.00 | |
| +2.65 $\delta_2$ −19.50 | | 54 2.25 | | 33 6.3 | | | | | | 33 25.76 | |
| | +20.8 | 4 38.2 | 41.4 | 14 | 39.80 | 50 8 8.55 | | | 10′ | 50 18 17.17 | |
| | | | | | | 18 24.28 | | | | − .12 | +8.08 |
| 24 d | 1.31806 | | | | | −17.11 | | | | − 5 | |
| | 9.80534 | | | | | | 18 17.17 | | | +7.94 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.23332 m | | | | | | | | | + .31 | |
| | | | | | | | | | | − 5.00 | |
| +2.69 $\delta_1$ −19.48 | | 55 10.15 | | 17 50.8 | | | | | | 18 10.25 | |
| | +22.7 | 4 36.6 | 44.3 | 14 | 40.45 | 50 8 7.90 | | | 10′ | 18 6.32 | |
| | | | | | | 18 25.00 | | | | − 14 | +8.01 |
| d | 1.35603 | | | | | −18.68 | | | | − 5 | |
| | 9.80534 | | | | | | 18 6.32 | | | + 7.89 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.27129 m | | | | | | | | | + .31 | |
| | | | | | | | | | | − 5.20 | |
| +2.69 $\delta_2$ −19.48 | | 55 10.23 | | 17 49.6 | | | | | | 18 9.13 | |

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Date$_1$ = May 27, 1874 Observer W. A. R. Recorder J. E. M.

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Date$_2$ = May 28, 1874 Observer Recorder

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| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 ♑ | 56 57 | 52 56 | 9.0 | 33 46.4 | 56 8.3 | 11.7 | 15.2 | 18.6 | 22.1 | | | m s 56 15.18 | |
| | 56 12.5 | 53 1.2 | 8.7 | 52.0 | | | | | | | | + 51.70 | |
| κ | | | | 52.9 | | | | | | | | − 29 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 47.6 | | | | | | | + 51.41 | − 2 | |
| $a_1$ | | | | | | | | | | | | 57 6.57 | |
| | | | | | | | | | | | | − 2.44 | |
| | | | | | | | | | | | | 57 4.13 | +26 −19. |
| | | | 9.1 | 33 42.4 | 56 8.1 | 11.6 | 14.9 | 18.4 | 22.0 | | | 56 15.00 | |
| | | | | 46.0 | | | | | | | | + 52.11 | |
| κ | | | | 48.4 | | | | | | | | − 41 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 45.6 | | | | | | | + 51.68 | − 2 | |
| $a_2$ | | | | | | | | | | | | 57 6.68 | |
| | | | | | | | | | | | | − 2.42 | |
| | | | | | | | | | | | | 57 4.26 | +2 − 19 |
| | 57 44 | 50 59 | 9.0 | 56 49.8 | 56 5.3 | 11.7 | 0.9 | 4.1 | 7.4 | | | 57 0.88 | |
| | 56 58.4 | 51 4.3 | 8.4 | 52.7 | | | | | | | | + 51.70 | |
| κ | | | | 53.9 | | | | | | | | − 27 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 52.8 | | | | | | | + 51.41 | − 2 | |
| $a_1$ | | | | | | | | | | | | 57 52.29 | |
| | | | | | | | | | | | | − 2.36 | |
| | | | | | | | | | | | | 57 49.93 | +26 −19. |
| | | | 9.0 | 56 40.7 | 56 5.0 | 11.3 | 0.5 | 3.8 | 7.1 | | | 57 0.54 | |
| | | | | 43.5 | | | | | | | | + 52.11 | |
| κ | | | | 46.7 | | | | | | | | − 38 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 47.6 | | | | | | | + 51.71 | − 2 | |
| $a_2$ | | | | | | | | | | | | 57 52.25 | |
| | | | | | | | | | | | | − 2.34 | |
| | | | | | | | | | | | | 57 49.91 | +26 −19. |
| | 59 10 | 51 53 | 8.1 | 38 0.4 | 58 14.6 | 19.8 | 23.3 | 26.5 | 29.5 | | | 58 23.20 | |
| | 58 24.6 | 51 58.2 | 7.8 | 44 | | | | | | | | + 51.70 | |
| κ | | | | 7.0 | | | | | | | | − 28 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 2.9 | | | | | | | + 51.40 | − 2 | |
| $a_1$ | | | | | | | | | | | | 59 14.60 | |
| | | | | | | | | | | | | − 2.41 | |
| | | | | | | | | | | | | 59 12.19 | +26 −19. |
| | | | 8.0 | 57 56.4 | 58 16.3 | 19.6 | 22.9 | 25.8 | 29.7 | | | 58 22.86 | |
| | | | | 0.1 | | | | | | | | + 52.11 | |
| κ | | | | 2.2 | | | | | | | | − 40 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 57.6 | | | | | | | + 51.69 | − 2 | |
| $a_2$ | | | | | | | | | | | | 59 14.55 | |
| | | | | | | | | | | | | − 2.39 | |
| | | | | | | | | | | | | 59 12.16 | +26 −19. |
| 13 ♑ | 00 00 | 50 09 | 8.8 | 58 50.5 | 59 12.0 | 15.3 | 18.6 | 21.8 | 25.0 | | | 59 18.54 | |
| 12 | 69 15.9 | 50 14.8 | 8.5 | 53.2 | | | | | | | | + 51.70 | |
| κ | | | | 50.9 | | | | | | | | − 26 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 53.2 | | | | | | | + 51.42 | − 2 | |
| $a_1$ | | | | | | | | | | | | 00 9.96 | |
| | | | | | | | | | | | | − 2.24 | |
| | | | | | | | | | | | | 00 7.62 | +26 −19. |
| | | | 8.9 | 58 57.0 | 59 11.7 | 14.9 | 18.2 | 21.4 | 24.6 | | | 59 18.16 | |
| | | | | 0.0 | | | | | | | | + 52.11 | |
| κ | | | | 2.8 | | | | | | | | − 37 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 54.9 | | | | | | | + 51.72 | − 2 | |
| $a_2$ | | | | | | | | | | | | 0 ~~9.878~~ | |
| | | | | | | | | | | | | − 2.32 | |
| | | | | | | | | | | | | 0 7.56 | +26 −19. |
| | 02 03 | 50 11 | 9.0 | 0 53.0 | 1 12.6 | 15.8 | ~~19.0~~ 18.9 | 22.1 | 25.5 | | | 1 18.98 | |
| | 01 18.4 | 50 16.7 | 8.8 | 56.3 | | | | | | | | + 51.70 | |
| κ | | | | 55.9 | | | | | | | | − 26 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 56.1 | | | | | | | + 51.42 | − 2 | |
| $a_1$ | | | | | | | | | | | | 2 10.40 | |
| | | | | | | | | | | | | − 2.35 | |
| | | | | | | | | | | | | 2 8.05 | +26 −19 |
| | | | 8.8 | 0 52.4 | 1 12.2 | 15.6 | 18.8 | 22.0 | 25.2 | | | 1 18.76 | |
| | | | | 55.8 | | | | | | | | + 52.11 | |
| κ | | | | 59.2 | | | | | | | | − 37 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 55.8 | | | | | | | + 51.72 | − 2 | |
| $a_2$ | | | | | | | | | | | | 2 10.48 | |
| | | | | | | | | | | | | − 2.33 | |
| | | | | | | | | | | | | 2 8.15 | +2 − 1 |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 2′ 17.9″ | 25.0″ | 37″ | 51.45 | 52 45 26.90 | | | 36″ | 52 55 22.91 | |
| | +25.4 | | | | | 55 42.63 | | | | − .16 | +10.85 |
| 18 d | 1.404833 | | | | | −19.72 | | | | − 2 | |
| | 9.780133 | | | | | | 55 22.91 | | | + 10.63 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.294888 m | | | | | | | | | + .40 | |
| | | | | | | | | | | − 5.50 | |
| +264 $\delta_1$ | | 57 6.77 | | 55 8.8 | | | | | | 55 28.26 | |
| −19.44 | | | | | | | | | | | |
| | +29.4 | 2 13.5 | 24.0 | 37 | 18.75 | 52 45 29.60 | | | 35 | 23.87 | |
| | 1.468353 | | | | | 55 46.70 | | | | − 22 | +10.71 |
| d | 9.780133 | | | | | − 22.83 | | | | − 2 | |
| | 1.358406 m | | | | | | 55 23.87 | | | + 10.55 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 5.60 | |
| +264 $\delta_2$ | | 57 6.90 | | 55 9.5 | | | | | | 55 28.98 | |
| −19.44 | | | | | | | | | | | |
| | + 8.1 | 3 38.7 | 42.7 | 33 | 40.70 | 50 49 7.65 | | | 30 | 50 59 16.81 | |
| | 0.908493 | | | | | 59 23.88 | | | | − 2 | +8.93 |
| 34 d | 9.799053 | | | | | −6.57 | | | | − 4 | |
| | 0.817446 m | | | | | | 59 16.81 | | | + 8.64 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .35 | |
| | | | | | | | | | | − 5.00 | |
| +266 $\delta_1$ | | 57 52.59 | | 59 1.3 | | | | | | 59 20.74 | |
| −19.42 | | | | | | | | | | | |
| | +16.9 | 3 30.0 | 38.9 | 33 | 34.45 | 50 49 13.90 | | | 30 | 17.30 | |
| | 1.227893 | | | | | 59 31.00 | | | | − 8 | +8.81 |
| d | 9.799053 | | | | | −13.70 | | | | − 4 | |
| | 1.136846 m | | | | | | 59 17.30 | | | + 8.58 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .35 | |
| | | | | | | | | | | − 5.10 | |
| +266 $\delta_2$ | | 57 52.57 | | 59 1.6 | | | | | | 59 21.01 | |
| −19.42 | | | | | | | | | | | |
| | +19.3 | 0 2.4 | 9.8 | 40 | 6.10 | 51 42 42.25 | | | 40 | 57 52 42.64 | |
| | 1.285563 | | | | | 52 57.98 | | | | − .10 | +9.85 |
| 84 d | 9.790473 | | | | | −15.34 | | | | − 0 | |
| | 1.185956 m | | | | | | 52 42.64 | | | + 9.55 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 5.10 | |
| +264 $\delta_1$ | | 59 14.83 | | 52 28.0 | | | | | | 52 47.39 | |
| −19.39 | | | | | | | | | | | |
| | +23.3 | 0 57.3 | 10.0 | 40 | 3.65 | 51 42 44.70 | | | 40 | 43.28 | |
| | 1.367363 | | | | | 52 3 1.80 | | | | − .14 | +9.75 |
| d | 9.790473 | | | | | −18.52 | | | | − 0 | |
| | 1.267755 m | | | | | | 52 43.28 | | | + 9.49 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 5.30 | |
| +264 $\delta_2$ | | 59 14.80 | | 52 28.3 | | | | | | 52 47.73 | |
| −19.39 | | | | | | | | | | | |
| | +25.3 | 4 11.4 | 16.4 | 24 | 13.65 | 49 58 34.70 | | | 20 | 50 8 29.55 | |
| | 1.403123 | | | | | 50 8 50.43 | | | | − .17 | +7.88 |
| 38 d | 9.806713 | | | | | −20.88 | | | | − 4 | |
| | 1.319755 m | | | | | | 8 29.55 | | | + 7.78 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .31 | |
| | | | | | | | | | | −4.60 | |
| +266 $\delta_1$ | | 0 10.28 | | 8 13.5 | | | | | | 8 32.83 | |
| −19.37 | | | | | | | | | | | |
| | +18.3 | 4 16.9 | 25.1 | 24 | 21.00 | 49 58 27.35 | | | 20 | 29.35 | |
| | 1.262453 | | | | | 50 8 44.45 | | | | − 9 | +7.91 |
| d | 9.806713 | | | | | −15.10 | | | | − 4 | |
| | 1.179088 m | | | | | | 8 29.35 | | | + 7.73 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .31 | |
| | | | | | | | | | | − 4.80 | |
| +266 $\delta_2$ | | 0 10.22 | | 8 13.1 | | | | | | 8 32.46 | |
| −19.37 | | | | | | | | | | | |
| | +22.4 | 2 40.5 | 45.8 | 22 | 43.15 | 50 0 5.20 | | | 20 | 50 10 20.4 | |
| | 1.359843 | | | | | 10 20.93 | | | | − .14 | +7.95 |
| 22 d | 9.806563 | | | | | −18.89 | | | | − 3 | |
| | 1.276323 m | | | | | | 10 2.04 | | | + 7.81 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .31 | |
| | | | | | | | | | | − 4.50 | |
| +264 $\delta_1$ | | 2 10.69 | | 9 46.2 | | | | | | 10 5.49 | |
| −19.32 | | | | | | | | | | | |
| | +23.0 | 2 39.7 | 42.3 | 22 | 44.50 | 50 0 3.85 | | | 20 | 1.97 | |
| | 1.361733 | | | | | 10 20.95 | | | | − 14 | +7.90 |
| d | 9.806563 | | | | | −18.98 | | | | − 3 | |
| | 1.278213 h | | | | | | 10 1.97 | | | + 7.76 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .31 | |
| | | | | | | | | | | −4.70 | |
| +264 $\delta_2$ | | 2 10.79 | | 9 45.8 | | | | | | 10 6.17 | |
| −19.32 | | | | | | | | | | | |

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Date$_1$ = May 27, 1874 Observer W.A.R. Recorder J.H.M.

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Date$_2$ = May 28, 1874 Observer Recorder

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| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | m s | m s | s | s | s | s | | | m | |
| | 03 m 26 s | 50° 08′ | 7.7 | 2 13.1 | 2 35.3 | 38.4 | 41.6 | 45.0 | 48.1 | | | 2 | 41.68 |
| | 02 41.9 | 50 13.8 | 8.1 | 17.0 | | | | | | | | + | 51.70 |
| | κ | | | 19.6 | | | | | | | | − | 26 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 16.8 | | | | | | | + 51.42 | − | 2 |
| | | | | | | | | | | | | 3 | 33.10 |
| | $\alpha_1$ | | | | | | | | | | | − | 2.35 |
| | | | | | | | | | | | | 3 | 30.75 |
| | | | 8.0 | 2 8.8 | 2 35.0 | 38.4 | 41.4 | 44.7 | 47.9 | | | 2 | 41.48 |
| | κ | | | 12.4 | | | | | | | | + | 52.11 |
| | | | | 14.7 | | | | | | | | − | .39 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 12.0 | | | | | | | + 51.72 | − | 2 |
| | | | | | | | | | | | | 3 | 33.20 |
| | $\alpha_2$ | | | | | | | | | | | − | 2.33 |
| | | | | | | | | | | | | 3 | 30.87 |
| | 04 25 | 50 23 | 8.8 | 3 23.9 | 3 36.0 | 39.2 | 42.8 | 45.7 | 48.7 | | | 3 | 42.38 |
| | 03 40.7 | 50 28.4 | 9.0 | 26.7 | | | | | | | | + | 51.70 |
| | κ | | | 30.4 | | | | | | | | − | .29 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 27.0 | | | | | | | + 51.41 | − | 2 |
| 5 2 | | | | | | | | | | | | 4 | 33.79 |
| | $\alpha_1$ | | | | | | | | | | | − | 2.37 |
| | | | | | | | | | | | | 4 | 31.42 |
| | | | 9.2 | 3 36.6 | 3 35.7 | 38.9 | 42.2 | 45.3 | 48.5 | | | 3 | 42.12 |
| | κ | | | 16.3 | | | | | | | | + | 52.11 |
| | | | | 18.9 | | | | | | | | − | .38 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 16.2 | | | | | | | + 51.71 | − | 2 |
| | | | | | | | | | | | | 4 | 33.83 |
| | $\alpha_2$ | | | | | | | | | | | − | 2.35 |
| | | | | | | | | | | | | 4 | 31.48 |
| | 07 52 | 51 48 | 8.7 | 6 37.8 | 7 3.6 | 6.8 | 10.3 | 13.6 | 16.8 | | | 7 | 10.22 |
| | 07 8.3 | 51 53.9 | 8.4 | 40.9 | | | | | | | | + | 51.71 |
| | κ | | | 44.3 | | | | | | | | − | .28 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 41.0 | | | | | | | + 51.41 | − | 2 |
| | | | | | | | | | | | | 8 | 1.63 |
| | $\alpha_1$ | | | | | | | | | | | − | 2.45 |
| | | | | | | | | | | | | 7 | 59.18 |
| | | | 8.7 | 6 34.5 | 7 3.1 | 6.7 | 10.0 | 13.3 | 16.6 | | | 7 | 9.94 |
| | κ | | | 38.4 | | | | | | | | + | 52.11 |
| | | | | 40.8 | | | | | | | | − | .40 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 37.9 | | | | | | | + 51.71 | 8 | 1.65 |
| | | | | | | | | | | | | − | 2.43 |
| | $\alpha_2$ | | | | | | | | | | | 7 | 59.22 |
| | 08 47 | 51 37 | 9.5 | 8 1.2 | 7 36.9 | 8.3 | 3.5 | 7.0 | 10.3 | | | 8 | 3.60 |
| | 08 3.4 | 51 42.7 | 9.5 | | | | | | | | | + | 51.71 |
| | κ | | | | | | | | | | | − | .28 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 51.41 | − | 2 |
| | | | | | | | | | | | | 8 | 55.01 |
| | $\alpha_1$ | | | | | | | | | | | − | 2.45 |
| | | | | | | | | | | | | 8 | 52.56 |
| | | | 9.6 | 7 51.0 | 7 36.5 | 0.0 | 3.8 | 6.5 | 9.8 | | | 8 | 3.32 |
| | κ | | | 53.2 | | | | | | | | + | 52.11 |
| | | | | 53.9 | | | | | | | | − | .39 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 52.4 | | | | | | | + 51.70 | − | 2 |
| | | | | | | | | | | | | 8 | 55.02 |
| | $\alpha_2$ | | | | | | | | | | | − | 2.43 |
| | | | | | | | | | | | | 8 | 52.59 |
| | 10 04 | 51 30 | 8.3 | 8 55.7 | 9 13.5 | 16.8 | 20.1 | 23.5 | 26.7 | | | 9 | 20.12 |
| | 09 12.8 | 51 35.5 | 8.0 | 59.2 | | | | | | | | + | 51.71 |
| | κ | | | 2.4 | | | | | | | | − | .28 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 57.1 | | | | | | | + 51.41 | − | 2 |
| | | | | | | | | | | | | 10 | 11.53 |
| | $\alpha_1$ | | | | | | | | | | | − | 2.45 |
| | | | | | | | | | | | | 10 | 9.08 |
| | | | 8.5 | 8 54.5 | 9 13.1 | 16.4 | 19.7 | 23.0 | 26.3 | | | 9 | 19.70 |
| | κ | | | 59.0 | | | | | | | | + | 52.11 |
| | | | | 1.4 | | | | | | | | − | .39 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 58.3 | | | | | | | + 51.70 | − | 2 |
| | | | | | | | | | | | | 10 | 11.40 |
| | $\alpha_2$ | | | | | | | | | | | − | 2.43 |
| | | | | | | | | | | | | 10 | 8.97 |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +24.9 | 0 14.9 | 19.5 | 25 | 17.20 | 49 57 31.15 | | | 25 | 50 7 26.32 | |
| | 1.396 20 | | | | | 50 7 46.88 | | | | − .17 | +7.89 |
| 20 d | 9.806 86 | | | | | − 20.56 | | | | − 0 | |
| | 1.312 98 m | | | | | | | 7 26.32 | | + 7.76 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .30 | |
| +2.63 | | | | | | | | | | −4.40 | |
| −19.29 $\delta_1$ | | 3 33.38 | | 7 10.5 | | | | | | 7 29.81 | |
| | +29.5 | 0 9.9 | 19.1 | 25 | 14.50 | 49 57 33.85 | | | 25 | 26.59 | |
| | 1.469 82 | | | | | 50 7 50.95 | | | | − .23 | +7.78 |
| d | 9.806 86 | | | | | − 24.36 | | | | − 0 | |
| | 1.386 60 m | | | | | | | 7 26.59 | | + 7.71 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .30 | |
| +2.63 | | | | | | | | | | −4.60 | |
| −19.29 $\delta_2$ | | 3 33.50 | | 7 10.5 | | | | | | 7 29.77 | |
| | +15.4 | 1 38.1 | 43.6 | 11 | 40.85 | 50 11 7.50 | | | 10 | 50 21 10.57 | |
| | 1.187 52 | | | | | 21 23.23 | | | | − .6 | +8.22 |
| 26 d | 9.804 89 | | | | | − 12.66 | | | | − .2 | |
| | 1.102 33 m | | | | | | | 21 10.57 | | + 7.99 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .37 | |
| +2.62 | | | | | | | | | | −4.40 | |
| −19.26 $\delta_1$ | | 4 34.04 | | 20 55.1 | | | | | | 21 14.39 | |
| | +25.9 | 1 26.8 | 36.5 | 11 | 31.65 | 50 11 16.70 | | | 10 | 12.51 | |
| | 1.413 30 | | | | | 21 33.80 | | | | − .18 | +8.05 |
| d | 9.804 89 | | | | | − 21.29 | | | | − .2 | |
| | 1.328 11 m | | | | | | | 21 12.51 | | + 7.94 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .31 | |
| +2.62 | | | | | | | | | | −4.60 | |
| −19.26 $\delta_2$ | | 4 34.10 | | 20 56.7 | | | | | | 21 13.96 | |
| | +29.2 | 0 11.8 | 17.0 | 45 | 14.40 | 57 37 33.95 | | | 45 | 57 47 26.42 | |
| | 1.465 38 | | | | | 47 49.68 | | | | − .22 | +9.63 |
| 28 d | 9.791 28 | | | | | − 23.26 | | | | − 0 | |
| | 1.366 58 m | | | | | | | 47 26.42 | | + 9.46 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .39 | |
| | | | | | | | | | | − 4.50 | |
| $\delta_1$ | | | | | | | | | | 47 31.55 | |
| | +32.0 | 0 6.7 | 18.0 | 45 | 12.35 | 51 37 36.00 | | | 45 | 27.61 | |
| | 1.505 15 | | | | | 47 58.10 | | | | − .27 | +9.51 |
| d | 9.791 28 | | | | | − 25.49 | | | | − 0 | |
| | 1.406 35 m | | | | | | | 47 27.61 | | + 9.39 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .37 | |
| | | | | | | | | | | − 4.50 | |
| $\delta_2$ | | | | | | | | | | 47 32.42 | |
| | +2.4 | 1 27.4 | 34.0 | 56 | 30.70 | 51 26 17.65 | | | 55 | 51 36 31.46 | |
| | 0.380 21 | | | | | 36 33.38 | | | | − .00 | +9.65 |
| 28 d | 9.793 04 | | | | | − 1.92 | | | | − 1 | |
| | 0.283 17 m | | | | | | | 36 31.46 | | + 9.28 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .38 | |
| +2.57 | | | | | | | | | | −4.40 | |
| −19.16 $\delta_1$ | | 8 55.13 | | 36 17.6 5 | | | | | | 36 36.71 | |
| | +9.9 | 1 20.1 | 31.5 | 56 | 25.80 | 51 26 22.55 | | | 55 | 31.73 | |
| | 0.995 64 | | | | | 36 39.65 | | | | − 3 | +9.55 |
| d | 9.793 04 | | | | | −7.92 | | | | − 1 | |
| | 0.898 60 m | | | | | | | 36 31.73 | | +9.21 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .38 | |
| +2.57 | | | | | | | | | | −4.60 | |
| −19.16 $\delta_2$ | | 8 55.16 | | 36 17.5 | | | | | | 36 32.68 | |
| | +21.0 | 2 52.4 | 58.0 | 2 | 55.20 | 51 19 53.15 | | | 0 | 51 29 52.04 | |
| | 1.322 22 | | | | | 30 8.88 | | | | − 1.2 | +9.39 |
| 42 d | 9.794 15 | | | | | −16.84 | | | | − 3 | |
| | 1.226 29 m | | | | | | | 29 52.04 | | + 9.17 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .37 | |
| +2.57 | | | | | | | | | | −4.30 | |
| −19.12 $\delta_1$ | | 10 11.65 | | 29 38.0 | | | | | | 29 57.13 | |
| | +21.4 | 2 52.1 | 2.1 | 2 | 57.10 | 51 19 51.25 | | | 0 | 51.19 | |
| | 1.330 41 | | | | | 30 8.35 | | | | − 12 | +9.32 |
| d | 9.794 15 | | | | | −17.16 | | | | − 3 | |
| | 1.234 48 m | | | | | | | 29 51.19 | | + 9.10 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .37 | |
| +2.57 | | | | | | | | | | − 4.50 | |
| −19.12 $\delta_2$ | | 10 11.54 | | 29 36.9 | | | | | | 29 56.01 | |

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Date$_1$ = May 27, 1874 Observer W. A. R. Recorder J. Fick

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Date$_2$ = May 28, 1874 Observer Recorder

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| Star. | α | δ | Mag. | $T_s$ | $T_m$ | $T_o$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | h m s | ° ′ ″ | | m s | m s | s | s | s | s | | | m | s |
| | 11 10 26.8 | 51 20.6 | 8.5 | 18 8.5 | 18 20.9 | 24.3 | 27.5 | 30.8 | 34.2 | | | 10 | 27.54 |
| | 10 | 8.3 | | 8.2 | | | | | | | | + | 51.72 |
| κ | | | | 6.0 | | | | | | | | − | .28 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 8.1 | | | | | | | + 51.42 | − | .2 |
| | | | | | | | | | | | | 11 | 18.96 |
| $a_1$ | | | | | | | | | | | | − | 2.44 |
| | | | | | | | | | | | | 11 | 16.52 |
| | | | 8.6 | 10 2.7 | 10 20.7 | 24.0 | 27.3 | 30.5 | 33.9 | | | 10 | 27.28 |
| | | | | 6.2 | | | | | | | | + | 52.11 |
| κ | | | | 9.4 | | | | | | | | − | .39 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 6.1 | | | | | | | + 51.70 | − | .2 |
| | | | | | | | | | | | | 11 | 18.58 |
| $a_2$ | | | | | | | | | | | | − | 2.43 |
| | | | | | | | | | | | | 11 | 16.55 |
| | 12 32 | 51 07 | 7.9 | 11 24.1 | 11 50.0 | 53.3 | 56.5 | 59.9 | 3.2 | | | 11 | 56.58 |
| | 11 56.7 | 51 12.7 | 7.8 | 27.2 | | | | | | | | + | 51.72 |
| κ | | | | 29.5 | | | | | | | | − | .27 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 26.9 | | | | | | | + 51.43 | − | .2 |
| | | | | | | | | | | | | 12 | 48.01 |
| $a_1$ | | | | | | | | | | | | − | 2.44 |
| | | | | | | | | | | | | 12 | 45.57 |
| | | | 7.5 | 11 26.3 | 11 49.6 | 52.9 | 56.2 | 59.5 | 2.8 | | | 11 | 56.20 |
| | | | | 30.2 | | | | | | | | + | 52.11 |
| κ | | | | 32.5 | | | | | | | | − | .38 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 29.7 | | | | | | | + 51.71 | − | .2 |
| | | | | | | | | | | | | 12 | 47.91 |
| $a_2$ | | | | | | | | | | | | − | 2.43 |
| | | | | | | | | | | | | 12 | 45.48 |
| | 14 25 | 51 07 | 6.0 | 13 12.2 | 13 34.0 | 37.2 | 40.5 | 43.8 | 47.0 | | | 13 | 40.56 |
| | 13 41.9 | 51 12.3 | 8.5 | 15.5 | | | | | | | | + | 51.72 |
| κ | | | | 18.1 | | | | | | | | − | .27 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 15.3 | | | | | | | + 51.43 | − | .2 |
| | | | | | | | | | | | | 14 | 31.93 |
| $a_1$ | | | | | | | | | | | | − | 2.45 |
| | | | | | | | | | | | | 14 | 29.48 |
| | | | 8.2 | 13 8.3 | 13 33.8 | 37.0 | 40.4 | 43.5 | 46.8 | | | 13 | 40.30 |
| | | | | 11.2 | | | | | | | | + | 52.11 |
| κ | | | | 14.2 | | | | | | | | − | .38 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 11.2 | | | | | | | + 51.71 | − | .2 |
| | | | | | | | | | | | | 14 | 48.01 |
| $a_2$ | | | | | | | | | | | | − | 2.44 |
| | | | | | | | | | | | | 14 | 29.57 |
| | 15 00 | 51 06 | 8.8 | 13 58.9 | 14 9.7 | 13.0 | 16.2 | 19.4 | 22.9 | | | 14 | 16.24 |
| | 14 16.7 | 51 11.8 | 8.7 | 1.4 | | | | | | | | + | 51.72 |
| κ | | | | 4.3 | | | | | | | | − | .27 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 61.5 | | | | | | | + 51.43 | − | .2 |
| | | | | | | | | | | | | 15 | 7.67 |
| $a_1$ | | | | | | | | | | | | − | 2.46 |
| | | | | | | | | | | | | 15 | 5.21 |
| | | | 8.7 | 14 6.0 | 14 9.2 | 12.6 | 15.9 | 19.2 | 22.5 | | | 14 | 15.88 |
| | | | | 8.6 | | | | | | | | + | 52.11 |
| κ | | | | 11.8 | | | | | | | | − | .38 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 8.8 | | | | | | | + 51.71 | − | .2 |
| | | | | | | | | | | | | 15 | 7.59 |
| $a_2$ | | | | | | | | | | | | − | 2.44 |
| | | | | | | | | | | | | 15 | 5.15 |
| | 18 06 | 51 45 | 8.5 | 16 51.5 | 17 16.0 | 19.6 | 22.7 | 26.1 | 29.4 | | | 17 | 22.76 |
| | 17 23.5 | 51 50.0 | 9.0 | 54.8 | | | | | | | | + | 51.72 |
| κ | | | | 57.9 | | | | | | | | − | .28 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 54.1 | | | | | | | + 51.42 | − | .2 |
| | | | | | | | | | | | | 18 | 14.18 |
| $a_1$ | | | | | | | | | | | | − | 2.50 |
| | | | | | | | | | | | | 18 | 11.68 |
| | | | 8.7 | 16 54.3 | 17 16.9 | 19.1 | 22.5 | 25.9 | 29.0 | | | 17 | 22.48 |
| | | 20 54 | | 57.6 | | | | | | | | + | 52.11 |
| κ | | | | 60 | | | | | | | | − | .40 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 57.3 | | | | | | | + 51.69 | − | .2 |
| | | | | | | | | | | | | 18 | 14.17 |
| $a_2$ | | | | | | | | | | | | − | 2.48 |
| | | | | | | | | | | | | 18 | 11.69 |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | δ | 3′ 37.7 | 44.0 | 18′ | 40.85 | 51 4 7.50 | | | 15′ | 51 14 3.55 | |
| 26 | +24.4 | | | | | 14 23.23 | | | | − .15 | +9.07 |
| d | 1.38739 | | | | | −19.68 | | | | − 4 | |
| | 9.79668 | | | | | | 14 3.55 | | | + 8.90 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.29399 m | | | | | | | | | + .36 | |
| | | | | | | | | | | − 4.10 | |
| +2.56 $\delta_1$ | | 11 19.08 | | 13 49.4 | | | | | | 14 8.52 | |
| −19.09 | | | | | | | | | | | |
| | +21.2 | 3 40.0 | 49.5 | 18 | 44.75 | 51 4 3.60 | | | 15 | 3.60 | |
| | 1.32634 | | | | | 14 20.70 | | | | − .12 | +10.03 |
| d | 9.79668 | | | | | −17.10 | | | | − 4 | |
| | 1.23294 m | | | | | | 14 3.60 | | | + 9.82 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .36 | |
| | | | | 13 | | | | | | − 4.30 | |
| +2.56 $\delta_2$ | | 11 19.11 | | 4 50.2 | | | | | | 14 9.32 | |
| −19.09 | | | | | | | | | | | |
| | +29.7 | 1 4.6 | 9.0 | 26 | 6.80 | 50 56 41.55 | | | 25 | 51 6 33.27 | |
| 38 | 1.47276 | | | | | 51 6 57.28 | | | | − .24 | +8.87 |
| d | 9.79778 | | | | | −24.01 | | | | − 1 | |
| | 1.38046 m | | | | | | 6 33.27 | | | + 8.77 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .35 | |
| | | | | | | | | | | − 4.00 | |
| +2.56 $\delta_1$ | | 12 48.13 | | 6 19.1 | | | | | | 6 38.14 | |
| −19.05 | | | | | | | | | | | |
| | +26.5 | 1 5.8 | 15.0 | 26 | 10.40 | 50 56 37.95 | | | 25 | 3363 | |
| | 1.42325 | | | | | 51 6 55.05 | | | | − .18 | +8.85 |
| d | 9.79778 | | | | | −21.42 | | | | − 1 | |
| | 1.33095 m | | | | | | 6 33.63 | | | + 8.69 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .35 | |
| | | | | | | | | | | − 4.20 | |
| +2.56 $\delta_2$ | | 12 48.04 | | 6 19.2 | | | | | | 6 38.28 | |
| −19.05 | | | | | | | | | | | |
| | +25.2 | 1 58.8 | 4.5 | 27 | 1.65 | 50 55 46.70 | | | 25 | 57 5 42.05 | |
| 20 | 1.40140 | | | | | 51 6 2.43 | | | | − .17 | +8.92 |
| d | 9.79795 | | | | | −20.38 | | | | − 2 | |
| | 1.30925 m | | | | | | 5 42.05 | | | + 8.76 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .35 | |
| | | | | | | | | | | − 3.90 | |
| +2.54 $\delta_1$ | | 14 32.02 | | 5 28.1 | | | | | | 5 47.07 | |
| −19.00 | | | | | | | | | | | |
| | +29.1 | 1 55.9 | 4.9 | 27 | 0.40 | 50 55 47.95 | | | 25 | 4151 | |
| | 1.46389 | | | | | 51 6 5.05 | | | | − .22 | +8.80 |
| d | 9.79795 | | | | | −23.54 | | | | − 2 | |
| | 1.37174 m | | | | | | 5 41.51 | | | + 8.69 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .35 | |
| | | | | | | | | | | − 4.10 | |
| +2.54 $\delta_2$ | | 14 32.11 | | 5 27.2 | | | | | | 5 46.21 | |
| −19.00 | | | | | | | | | | | |
| | +14.7 | 2 10.0 | 14.5 | 27 | 12.25 | 50 55 36.10 | | | 25 | 51 5 39.94 | |
| 36 | 1.16782 | | | | | 51 5 57.83 | | | | − 6 | +9.03 |
| d | 9.79795 | | | | | −11.89 | | | | − 2 | |
| | 1.07517 m | | | | | | 5 39.94 | | | + 8.76 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .35 | |
| | | | | | | | | | | − 3.90 | |
| +2.54 $\delta_1$ | | 15 7.75 | | 5 26.1 | | | | | | 5 45.07 | |
| −18.99 | | | | | | | | | | | |
| | + 7.1 | 2 15.7 | 26.2 | 27 | 20.95 | 50 55 27.40 | | | 25 | 38.76 | |
| | 0.85126 | | | | | 51 5 44.50 | | | | − 2 | +9.00 |
| d | 9.79795 | | | | | −5.74 | | | | − 2 | |
| | 0.75911 m | | | | | | 5 38.76 | | | + 8.69 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .35 | |
| +2.54 | | | | | | | | | | − 4.00 | |
| −18.99 $\delta_2$ | | 15 7.69 | | 5 24.8 | | | | | | 5 43.76 | |
| | +28.1 | 4 15.2 | 25.1 | 49 | 20.15 | 51 33 28.20 | | | 45 | 51 43 21.51 | |
| 28 | 1.44871 | | | | | 43 43.93 | | | | − 21 | +9.53 |
| d | 9.79192 | | | | | −22.42 | | | | − 4 | |
| | 1.35055 m | | | | | | 43 21.51 | | | + 9.40 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .38 | |
| | | | | | | | | | | − 3.70 | |
| +2.50 $\delta_1$ | | 18 14.18 | | 43 8.4 | | | | | | 43 27.34 | |
| −18.90 | | | | | | | | | | | |
| | +25.2 | 4 ~~21~~ 16 | 31.7 | 49 | ~~28.40~~ 23.90 | 51 33 21.95 72.50 | | | 45 | ~~18.95~~ 21.45 | |
| | 1.40140 | | | | ~~19.50~~ | 43 39.05 | | | | − 17 | ~~+9.49~~ |
| d | 9.79192 | | | | | −20.10 | | | | − 4 | |
| | 1.30324 m | | | | | | 43 18.95 | | | + 9.32 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .38 | |
| | | | | | | | | | | − 3.90 | |
| +2.50 $\delta_2$ | | 18 14.19 | | 43 8.1 | | | | | | 43 ~~24.54~~ 20.04 | |
| −18.90 | | | | | | | | | | | |

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302

Date$_1$ = May 27, 1874 Observer W.A.R. Recorder G. Hill

303

Date$_2$ = May 28, 1874 Observer Recorder

92

| Star. | α | δ | Mag. | $T_s$ | $T_m$ | $T_o$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 | 25 | 07 52 13 | 8.8 | 23 49.9 | 34 15.8 | 19.2 | 22.6 | 26.1 | 29.3 | | | m 24 | 22.60 |
| | 24 | 23.7 52 18.8 | 9.0 | 53.3 | | | | | | | | + | 51.73 |
| | | | | 56.9 | | | | | | | | − | .28 |
| | κ | | | 53.4 | | | | | | | + 51.43 | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 25 | 14.03 |
| | | | | | | | | | | | | − | 2.56 |
| | $a_1$ | | | | | | | | | | | 25 | 11.47 |
| | | | 9.1 | 23 57.4 | 24 15.5 | 18.9 | 22.1 | 25.6 | 29.0 | | | 24 | 22.22 |
| | | | | 49 | | | | | | | | + | 52.11 |
| | κ | | | 3.4 | | | | | | | | − | .40 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 60.5 | | | | | | | + 51.69 | − | 2 |
| | | | | | | | | | | | | 25 | 13.91 |
| | | | | | | | | | | | | − | 2.54 |
| | $a_2$ | | | | | | | | | | | 25 | 11.37 |
| 25 | 26 | 21 53 38 6 | 9.4 | 25 1.3 | 25 28.7 | 32.4 | 35.7 | 39.1 | 42.7 | | | 25 | 35.72 |
| | 25 | 38.5 53 44.0 | 9.3 | 4.2 | | | | | | | | + | 51.73 |
| | κ | | | 9.1 | | | | | | | | − | .30 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 4.0 | | | | | | | + 51.40 | − | 3 |
| | | | | | | | | | | | | 26 | 27.12 |
| | | | | | | | | | | | | − | 2.63 |
| | $a_1$ | | | | | | | | | | | 26 | 24.49 |
| | | | 9.2 | 25 8.3 | 25 28.4 | 31.9 | 35.5 | 38.8 | 42.2 | | | 25 | 35.36 |
| | | | | 11.4 | | | | | | | | + | 52.11 |
| | κ | | | 13.9 | | | | | | | | − | .42 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 11.6 | | | | | | | + 51.72 66 | − | 3 |
| | | | | | | | | | | | | 26 | 27.02 |
| | | | | | | | | | | | | − | 2.61 |
| | $a_2$ | | | | | | | | | | | 26 | 24.41 |
| 26 | 27 | 30 52 41 | 8.2 | 26 22.8 | 26 42.9 | 46.3 | 49.9 | 53.4 | 56.7 | | | 26 | 49.84 |
| | 26 | 47.3 52 46.8 | 8.3 | 26.1 | | | | | | | | + | 51.73 |
| | κ | | | 29.1 | | | | | | | | − | .29 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 26.0 | | | | | | | + 51.42 | − | 2 |
| | | | | | | | | | | | | 27 | 41.26 |
| | | | | | | | | | | | | − | 2.59 |
| | $a_1$ | | | | | | | | | | | 27 | 38.67 |
| | | | 8.0 | 26 19.3 | 26 38.8 | 43.3 | 47.6 | 51.0 | 54.4 | | | 26 | 42.62 |
| | | | | 24.1 | | | | | | | | + | 52.11 |
| | κ | | | 26.3 | | | | | | | | − | 41.1 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 22.2 | | | | | | | + 51.68 | − | 2 |
| | | | | | | | | | | | | 27 | 34.31 |
| | | | | | | | | | | | | − | 2.57 |
| | $a_2$ | | | | | | | | | | | 27 | 31.73 |
| 27 | 28 | 39 51 36 | 7.8 | 27 22.7 | 27 48.6 | 52.2 | 55.4 | 58.5 | 1.9 | | | 27 | 54.32 |
| | 27 | 5.7 51 41.5 | 8.1 | 25.9 | | | | | | | | + | 51.74 |
| | κ | | | 28.4 | | | | | | | | − | .28 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 25.8 | | | | | | | + 51.44 | − | 2 |
| | | | | | | | | | | | | 28 | 45.76 |
| | | | | | | | | | | | | − | 2.54 |
| | $a_1$ | | | | | | | | | | | 28 | 43.22 |
| | | | 8.0 | 27 41.6 | 27 48.4 | 51.7 | 55.0 | 58.3 | 1.5 | | | 27 | 54.98 |
| | | | | 43.7 | | | | | | | | + | 52.11 |
| | κ | | | 48.3 | | | | | | | | − | 89 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 44.4 | | | | | | | + 51.70 | − | 2 |
| | | | | | | | | | | | | 28 | 46.68 |
| | | | | | | | | | | | | − | 2.58 |
| | $a_2$ | | | | | | | | | | | 28 | 44.15 |
| 29 | 30 | 40 53 22 | 8.0 | 29 28.1 | 29 48.9 | 52.4 | 55.9 | 59.2 | 2.7 | | | 29 | 55.82 |
| | 29 | 5.8 53 27.2 | 8.3 | 31.1 | | | | | | | | + | 51.74 |
| | κ | | | 34.0 | | | | | | | | − | .30 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 31.1 | | | | | | | + 51.41 | − | 3 |
| 31 30 | | | | | | | | | | | | 30 | 47.23 |
| | | | | | | | | | | | | − | 2.64 |
| | $a_1$ | | | | | | | | | | | 30 | 44.59 |
| | | | 8.0 | 29 31.0 | 29 48.5 | 52.0 | 55.5 | 58.8 | 2.4 | | | 29 | 55.44 |
| | | | | 34.1 | | | | | | | | + | 52.11 |
| | κ | | | 34.4 | | | | | | | | − | 42 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 34.2 | | | | | | | + 51.66 | − | 3 |
| | | | | | | | | | | | | 30 | 47.10 |
| | | | | | | | | | | | | − | 2.63 |
| | $a_2$ | | | | | | | | | | | 30 | 44.47 |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | ∞ | 4 57.5 | 2.6 | 20 | 610 | 52 2 48.30 | | | 15 | 52 12 40.99 | |
| | +29.2 | | | | | 13 4.03 | | | | − .22 | +10.09 |
| 38 d | 1.46538 | | | | | − 23.04 | | | | − 0 | |
| | 9.78723 | | | | | | 12 40.99 | | | + 9.91 | ✓ |
| ((δ) − D) $\frac{d'}{100}$ | 1.36253 n | | | | | | | | | + .40 | |
| | | | | | | | | | | − 3.40 | |
| +2.45 $\delta_1$ | | 25 13.92 | | 12 29.0 | | | | | | 12 47.67 | |
| −18.68 | | | | | | | | | | | |
| | +21.7 | 0 1.6 | 11.7 | 20 | 6.10 | 52 2 42.25 | | | 20 | 42.23 | |
| | 1.33646 | | | | | 12 59.35 | | | | − .13 | +10.11 |
| d | 9.78723 | | | | | − 17.12 | | | | − 0 | |
| | 1.23361 n | | | | | | 12 42.23 | | | + 9.84 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 3.50 | |
| +2.45 $\delta_2$ | | 25 13.82 | | 12 30.2 | | | | | | 12 48.84 | |
| −18.68 | | | | | | | | | | | |
| | +30.8 | 2 40.9 | 44.9 | 57 | 42.90 | 53 25 5.45 | | | 55 | 53 34 57.63 | 11.44 |
| | 1.48855 | | | | | 35 21.18 | | | | − .25 | +.84 |
| 36 d | 9.77353 | | | | | − 23.55 | | | | − .3 | |
| | 1.37200 n | | | | | | 34 57.63 | | | + 11.32 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 3.60 | |
| +2.40 $\delta_1$ | | 26 26.89 | | 34 46.8 | | | | | | 35 6.47 | |
| −18.64 | | | | | | | | | | | |
| | +24.2 | 2 45.3 | 53.7 | 57 | 49.50 | 53 24 58.85 | | | 55 | 57.45 | |
| | 1.38382 | | | | | 35 15.95 | | | | − .15 | +11.46 |
| d | 9.77353 | | | | | − 18.50 | | | | − .3 | |
| | 1.26727 n | | | | | | 34 57.45 | | | + 11.24 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 3.80 | |
| +2.40 $\delta_2$ | | 26 26.81 | | 34 46.5 | | | | | | 35 5.11 | |
| −18.64 | | | | | | | | | | | |
| | +23.8 | 3 14.0 | 17.4 | 58 | 15.70 | 52 24 32.65 | | | 55 | 52 34 29.76 | |
| | 1.37658 | | | | | 34 48.38 | | | | − .15 | +10.50 |
| 28 d | 9.78362 | | | | | − 18.62 | | | | − .3 | |
| | 1.27012 n | | | | | | 34 29.76 | | | + 10.28 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 3.30 | |
| $\delta_1$ | | | | | | | | | | 34 36.96 | |
| | +19.4 | 1 28.2 | 39.2 | 51 | 33.70 | 52 31 14.68 | | | 50 | 41 16.92 | |
| | 1.28780 | | | | | 41 31.75 | | | | − .10 | +10.60 |
| d | 9.78246 | | | | | − 14.83 | | | | − .2 | |
| | 1.17118 n | | | | | | 41 16.92 | | | + 10.32 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 3.50 | |
| +2.42 $\delta_2$ | | 27 34.15 | | 41 5.4 | | | | | | 41 24.02 | |
| −18.61 | | | | | | | | | | | |
| | +28.5 | 1 51.5 | 58.2 | 56 | 54.85 | 51 25 53.50 | | | 55 | 51 35 46.43 | |
| | 1.45484 | | | | | 36 9.23 | | | | − .21 | +9.48 |
| 34 d | 9.79819 | | | | | − 22.80 | | | | − .2 | |
| | 1.35795 n | | | | | | 35 46.43 | | | + 9.28 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .38 | |
| | | | | | | | | | | − 3.00 | |
| +2.44 $\delta_1$ | | 28 46.66 | | 35 34.3 | | | | | | 35 52.86 | |
| −18.57 | | | | | | | | | | | |
| | +9.6 | 2 6.9 | 16.8 | 57 | 11.85 | 51 25 36.50 | | | 55 | 45.92 | |
| | 0.98227 | | | | | 35 59.60 | | | | − .3 | +9.54 |
| d | 9.79319 | | | | | − 7.68 | | | | − .2 | |
| | 0.88538 n | | | | | | 35 45.92 | | | + 9.21 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .38 | |
| | | | | | | | | | | − 3.20 | |
| +2.44 $\delta_2$ | | 28 46.59 | | 35 33.7 | | | | | | 35 52.26 | |
| −18.57 | | | | | | | | | | | |
| | +24.7 | 0 11.4 | 16.0 | 10 | 13.70 | 53 12 34.65 | | | 10 | 53 22 31.40 | |
| | 1.39270 | | | | | 22 50.38 | | | | − .16 | +11.34 |
| 38 d | 9.77558 | | | | | − 18.98 | | | | − .0 | |
| | 1.27820 n | | | | | | 22 31.40 | | | + 11.10 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 3.20 | |
| +2.38 $\delta_1$ | | 30 46.97 | | 22 21.0 | | | | | | 22 39.54 | |
| −18.50 | | | | | | | | | | | |
| | +21.2 | 0 13.1 | 22.8 | 10 | 17.95 | 53 12 30.40 | | | 10 | 31.21 | |
| | 1.32634 | | | | | 22 47.50 | | | | − .12 | +11.30 |
| d | 9.77558 | | | | | − 16.29 | | | | − .0 | |
| | 1.21184 n | | | | | | 22 31.21 | | | + 11.02 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 3.40 | |
| +2.38 $\delta_2$ | | 30 46.85 | | 22 20.6 | | | | | | 22 39.11 | |
| −18.50 | | | | | | | | | | | |

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1874phae.proj.1588R

302

Date$_1$ = May 27, 1874 Observer R.A.K. Recorder J.F.M.

303

Date$_2$ = May 28, 1874 Observer Recorder

94

Ru

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 h | 32 m 45 s | 51 ° 43 ′ | 9.0 | 31 m 30.0 s | 31 53.6 | 57.0 | 0.8 | 3.7 | 6.9 | | | 32 m | 0.30 |
| | 32 34 | 51 48.3 | 9.2 | 33.1 | | | | | | | | | + 51.74 |
| | κ | | | 36.0 | | | | | | | | | — .28 |
| | | | | 33.0 | | | | | | | | | — 2 |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 51.44 | 32 | 51.74 |
| | | | | | | | | | | | | | — 2.57 |
| | $\alpha_1$ | | | | | | | | | | | 32 | 49.17 |
| | | | 9.1 | 31 24.7 | 31 58.3 | 56.9 | 0.1 | 3.4 | 6.7 | | | 32 | 0.08 |
| | | | | 28.0 | | | | | | | | | + 52.11 |
| | κ | | | 38.9 | | | | | | | | | — .40 |
| | | | | 27.1 | | | | | | | | | — 2 |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 51.69 | 32 | 51.77 |
| | | | | | | | | | | | | | — 2.55 |
| | $\alpha_2$ | | | | | | | | | | | 32 | 49.22 |
| | 34 | 13 52 27 | 6.5 | 33 3.7 | 33 21.0 | 24.5 | 27.8 | 31.7 | 34.8 | | | 33 | 27.86 |
| | 33 31.6 | 52 32.1 | 6.8 | 7.1 | | | | | | | | | + 51.74 |
| | κ | | | 9.8 | | | | | | | | | — .29 |
| | | | | 6.9 | | | | | | | | | — 2 |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 51.43 | 34 | 19.29 |
| | | | | | | | | | | | | | — 2.61 |
| | $\alpha_1$ | | | | | | | | | | | 34 | 16.68 |
| | | | 6.3 | 32 48.6 | 33 20.8 | 24.1 | 27.6 | 31.0 | 34.4 | | | 33 | 27.58 |
| | | | | 51.2 | | | | | | | | | + 52.11 |
| | κ | | | 54.9 | | | | | | | | | — .49 |
| | | | | 51.6 | | | | | | | | | — 2 |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 51.68 | 34 | 19.27 |
| | | | | | | | | | | | | | — 2.59 |
| | $\alpha_2$ | | | | | | | | | | | 34 | 16.67 |
| | 35 | 14 53 46 | 7.8 | 34 8.2 | 34 23.2 | 26.7 | 30.1 | 33.6 | 37.2 | | | 34 | 30.16 |
| | 34 35.0 | 53 61.3 | 7.6 | 11.4 | | | | | | | | | + 51.75 |
| | κ | | | 14.3 | | | | | | | | | — .30 |
| | | | | 11.3 | | | | | | | | | — 3 |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 51.42 | 35 | 21.58 |
| | | | | | | | | | | | | | — 2.68 |
| | $\alpha_1$ | | | | | | | | | | | 35 | 18.90 |
| | | | 7.0 | 34 3.4 | 34 22.8 | 26.3 | 29.7 | 33.3 | 36.8 | | | 34 | 29.78 |
| | | | | 6.3 | | | | | | | | | — 52.11 |
| | κ | | | 8.8 | | | | | | | | | — .42 |
| | | | | 6.2 | | | | | | | | | — 3 |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 51.66 | 35 | 21.44 |
| | | | | | | | | | | | | | — 2.66 |
| | $\alpha_2$ | | | | | | | | | | | 35 | 18.78 |
| | 35 | 44 53 25 | 6.7 | 34 [illegible] | 34 53.7 | 57.1 | 0.5 | 3.9 | 7.4 | | | 35 | 0.48 |
| | 35 46 | 53 30.5 | 7.1 | 53.0 | | | | | | | | | + 51.75 |
| | κ | | | 56.4 | | | | | | | | | — .30 |
| | | | | 53.3 | | | | | | | | | — 2 |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 51.43 | 35 | 51.91 |
| | | | | | | | | | | | | | — 2.66 |
| | $\alpha_1$ | | | | | | | | | | | 35 | 49.25 |
| | | | 6.7 | 35 21.4 | — | — | 35 0.3 | 3.4 | 7.0 | | | 35 | 0.12 |
| | | | | 24.8 | | | | | | | | | + 52.11 |
| | κ | | | 21.8 | | | | | | | | | — .42 |
| | | | | 24.7 | | | | | | | | | — 3 |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 51.66 | 35 | 51.78 |
| | | | | | | | | | | | | | — 2.65 |
| | $\alpha_2$ | | | | | | | | | | | 35 | 49.13 |

Single Observations

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 h | 05 | 02 50 13 | 9.4 | 4 12.2 | 4 10.2 | 13.7 | 16.7 | 19.7 | 23.2 | | | 4 | 16.70 |
| | 04 17.9 | 50 17.7 | 9.4 | | | | | | | | | | + 51.71 |
| May 27 | κ | | | | | | | | | | | | — .276 |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 51.43 | | — 2 |
| | | | | | | | | | | | | 5 | 8.12 |
| | $\alpha_1$ | | | | | | | | | | | | — 2.37 |
| | | 51 56 | | | | | | | | | | 5 | 5.76 |
| 13 | 31 | 30 [illegible] | 9.3 | 30 30.3 | 30 45.4 | 48.8 | 52.0 | 55.2 | 58.6 | | | 30 | 52.20 |
| | 30 49.0 | 52 1.1 | 7.3 | 33.4 | | | | | | | | | + 51.74 |
| May 27 | κ | | | 26.4 | | | | | | | | | — .28 |
| 13 | 20 54 | | | 32.6 | | | | | | | | | — 2 |
| | ((δ) — D) $\frac{\kappa'}{100}$ 11.3 | | | | | | | | | | + 51.44 | 31 | 43.44 |
| May 28 | 20 | 51 33 | 9.4 | 19 47.3 | 20 2.7 | 6.2 | 9.6 | 12.8 | 16.3 | | | | — 2.58 |
| | $\alpha_2$ | 51 38.7 | 9.4 | 58.9 | | | | | | | | 20 | 6.52 |
| | | | | 52.5 | | | | | | | | | 40.86 |
| | | | | 47.1 | | | | | | | | | + 52.46 |
| | | | | | | | | | | | + 51.69 | | — .28 40 |
| | | | | | | | | | | | | | — 2 |
| | | | | | | | | | | | | 21 | 1.38 |
| | | | | | | | | | | | | | — 2.49 |
| | | | | | | | | | | | | 20 | 58.72 |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ' |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | ✓ | 0 46.1 | 53.9 | 50 | 51.00 | 51 31 57.35 | | | 50 | 51 41 51.29 | |
| | +27.3 | | | | | 42 13.08 | | | | − 19 | +9.57 |
| 22 d | 1.43616 | | | | | − 21.79 | | | | − 1 | |
| | 9.79224 | | | | | | 41 51.29 | | | + 9.39 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.33832 m | | | | | | | | | + .38 | |
| | | | | | | | | | | − 2.70 | |
| +2.40 $\delta_1$ | | 32 51.57 | | 41 39.7 | | | | | | 41 58.16 | |
| −18.43 | | | | | | | | | | | |
| | +32.2 | 0 43.0 | 53.7 | 50 | 48.35 | 51 32 0.00 | | | 50 | 51.39 | |
| | 1.50786 | | | | | 42 17.10 | | | | − 27 | +9.41 |
| d | 9.79224 | | | | | −25.71 | | | | − 1 | |
| | 1.41002 m | | | | | | 41 51.39 | | | + 9.31 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .38 | |
| | | | | | | | | | | − 2.90 | |
| +2.40 $\delta_2$ | | 32 51.62 | | 41 39.5 | | | | | | 41 57.90 | |
| −18.43 | | | | | | | | | | | |
| | +21.0 | 1 13.9 | 18.8 | 6 | 16.35 | 52 16 32.00 | | | 5 | 52 26 31.25 | excess |
| 30 | 1.32222 | | | | | 26 47.73 | | | | − .12 | +10.41 |
| d | 9.78494 | | | | | −16.48 | | | | − 1 | |
| | 1.21708 m | | | | | | 26 31.25 | | | + 10.14 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 2.80 | |
| +2.38 $\delta_1$ | | 34 19.06 | | 26 20.5 | | | | | | 26 38.86 | |
| −18.38 | | | | | | | | | | | |
| | +36.0 | 2 0.2 | 10.1 | 56 | 5.15 | 52 17 43.20 | | | 5 | 27 32.05 | |
| | 1.55630 | | | | | 28 0.30 | | | | − .34 | +10.15 |
| d | 9.78478 | | | | | −28.25 | | | | − 0 | |
| | 1.45100 m | | | | | | 27 32.05 | | | + 10.09 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 2.90 | |
| +2.38 $\delta_2$ | | 34 19.05 | | 26 20.9 | | | | | | 27 39.30 | |
| −18.38 | | | | | | 34 46.85 | | | | | |
| | +18.9 | 2 57.8 | 2.2 | 47 | 5.00 | 53 35 43.35 | | | 45 | 53 45 44.69 | |
| | 1.27646 | | | 48 | 1.50 | 45 [illegible] 2.58 | | | | 44 48.11 | +11.80 |
| 38 d | 9.77164 | | | | | −14.39 | | | | − 2.3 | |
| | 1.15802 m | | | | | | 45 44.69 | | | + 11.52 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 3.00 | |
| +2.34 $\delta_1$ | | 35 21.24 | | 44 38.6 | | | | | | 45 53.50 | |
| −18.34 | | | | | | | | | | 44 56.99 | |
| | +23.6 | 2 53.5 | 2.4 | 47 | 5.95 | 53 34 50.40 | | | 45 | 44 49.53 | E |
| | 1.37291 | | | | | 45 7.50 | | | | − .15 | +11.64 |
| d | 9.77181 | | | | | −17.97 | | | | − 3 | |
| | 1.25464 m | | | | | | 44 49.53 | | | + 11.42 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 3.10 | |
| +2.34 $\delta_2$ | | 35 21.12 | | 44 39.7 | | | | | | 44 58.07 | |
| −18.34 | | | | | | | | | | | |
| | + 7.2 | 3 27.0 | 31.9 | 8 | 27.45 | 53 14 18.90 | | | 5 | 53 24 29.10 | |
| | 0.85733 | | | | | 24 34.63 | | | | − 2 | +11.50 |
| 36 d | 9.77541 | | | | | −5.53 | | | | − 3 | |
| | 0.64266 m | | | | | | 24 29.10 | | | + 11.15 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 2.80 | |
| +2.34 $\delta_1$ | | 35 51.59 | | 24 19.5 | | | | | | 24 37.80 | |
| −18.33 | | | | | | | | | | | |
| | −24.6 | 3 50.0 | 0.1 | 8 | 5.05 | 53 13 53.30 | | | 5 | 29.29 | |
| | 1.39094 m | | | | | 24 10.40 | | | | − 16 | +11.28 |
| d | 9.77541 | | | | | +18.89 | | | | − 3 | |
| | 1.27627 | | | | | | 24 29.29 | | | + 11.07 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 3.00 | |
| +2.34 $\delta_2$ | | 35 51.47 | | 24 19.2 | | | | | | 24 37.57 | |
| −18.33 | | | | | | | | | | | |
| | + 4.5 | 3 4.0 | 8.4 | 23 | 6.20 | 49 59 42.15 | | | 20 | 50 9 54.17 | |
| | 0.65321 | | | | | 50 9 57.88 | | | | − 1 | +8.07 |
| d | 9.80656 | | | | | −3.71 | | | | − 3 | |
| | 0.56969 m | | | | | | 9 54.17 | | | + 7.81 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .30 | |
| +2.62 | | | | | | | | | | − 4.60 | |
| −19.25 $\delta_1$ | | 5 8.38 | | 9 38.4 | | | | | | 9 57.64 | may 28 |
| | +18.4 | 2 53.8 | 59.1 | 32 | 56.45 | 51 49 51.90 | | | 30 | 51 59 53.04 | 51 32 40.15 |
| | 1.26482 | | | | | 52 0 7.63 | | | | − 9 | − 11 |
| d | 9.78934 | | | | | −14.59 | 59 53.04 | | | − 2 | − 0 |
| | 1.16408 | 4.7 | 14.5 | 0 | 9.60 | 51 22 38.75 | | | 0 | + 9.70 | + 9.35 |
| ((δ) − D) $\frac{d'}{100}$ | +19.6 | 51 59 53.04 | 51 32 40.15 | | | 32 55.85 | | | | + .40 | + .37 |
| | 1.29226 | + 9.00 | + 9.41 | | | −15.70 | | 32 40.15 | | − 2.50 | − 3.70 |
| $\delta_2$ | 9.79367 | | | | | | | | | 0 0.53 | 32 45.86 |
| +2.49 | 1.19585 | | | | | | | | | | |
| −18.81 | | 21 1.21 | | 32 27.0 | | | | | | | |

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Date$_1$ = June 9, 1874 $n = -.42$ (305) Observer W. K. K. Recorder J. Z. M.

June 2 (304) $n = -.29$

Date$_2$ = June 10, 1874 $n = -.45$ (306) Observer Recorder

96

Ru

Subtract 1 min from all obs of this date June 9

| Star. | α | | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 29m | 12s 52° 35′ | 9.0 | 28m 58.2 | 29m 14.5 | 17.8 | 21.2 | 24.6 | 28.1 | | | 29m | 21.24 | |
| | 28 | 29.1 52 40.9 | 8.5 | 7 0.5 | | | | | | | | | 56.56 | 2.42 |
| | κ | | | 4.5 | | | | | | | | | 55 | .38 |
| June 2 | | | 8.6 | 61.1 | | | | | | | + 55.99 | 29 | 2 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 28 3.8 | 28 16.8 | 20.2 | 23.7 | 27.1 | 30.5 | | | | 30 17.23 | |
| | | | | 6.8 | | | | | | | | | 23.66 − 2.36 | +2.41 |
| | $\alpha_1$ | | | 9.3 | | | | | | | | | + 54.07 29 14.88 | −18.5 |
| | | | | 6.6 | | | | | | | + 53.67 | | − 38 | |
| | | | | | | | | | | | | | − 2 | |
| | | | 9.0 | 29 53.1 | 29 14.5 | 17.9 | 21.2 | 24.7 | 28.1 | | | 29 | 29 17.33 | |
| | | | | 38.4 | | | | | | | | | 21.28 − 2.50 | +2.4 |
| | κ | | | 2.2 | | | | | | | | | − 3.45 14.83 | −18.5 |
| | | | | 5.6 | | | | | | | | | − .58 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | − 4.06 | | − 2 | |
| | | | | | | | | | | | | 29 | 17.23 | |
| | $\alpha_2$ | | | | | | | | | | | | − 2.34 | +2.4 |
| | | | | | | | | | | | | 29 | 14.88 | −18.5 |
| | 28 | 16 5148 | | | Cch | | | | | | | | 29 | |
| | 27 | 34.5 51 53.5 | 8.3 | | | | | | | | | | | |
| | κ | | | | | | | | | | | | | |
| June 2 | ((δ) − D) $\frac{\kappa'}{100}$ | | 8.7 | 27 3.0 | 27 22.3 | 25.8 | 29.0 | 32.3 | 35.7 | | | 27 | 29.02 | 26 |
| | | | | 6.1 | | | | | | | | | + 54.07 | |
| | | | | 9.1 | | | | | | | | | − .37 | +2.0 |
| | $\alpha_1$ | | | 6.1 | | | | | | | + 53.68 | | − 2 | −18 |
| | | | | | | | | | | | | 28 | 22.70 −2.46 | |
| | | | 9.2 | 28 10.4 | 28 19.8 | 23.3 | 27.0 | 30.2 | 33.5 | | | 28 | 26.76 20.24 | |
| | | | | 13.3 | | | | | | | | | − 3.45 | |
| | κ | | | 16.8 | | | | | | | | | − .58 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 13.5 | | | | | | | − 4.05 | | − 2 | |
| | | | | | | | | | | | | 28 | 22.71 | |
| | $\alpha_2$ | | | | | | | | | | | | − 2.31 | +2.4 |
| | | | | | | | | | | | | 28 | 20.40 | −18.5 |
| | 30 | 55 50 07 | 9.0 | 29 41.4 | 31 0.8 | 4.0 | 7.2 | 10.4 | 13.6 | | | 30 | 7.20 | |
| | 30 | 14.4 50 12.7 | 8.9 | 44.9 | | | | | | | | | + 56.56 | 38 |
| | κ | | | 47.3 | | | | | | | | | − .50 | |
| | | | | 44.5 | | | | | | | + 56.04 | | − 2 32 | |
| June 2 | ((δ) − D) $\frac{\kappa'}{100}$ | | 8.9 | | | | | | | | | | 3.24 | 48 |
| | | | | 29 37.6 | 30 3.1 | 6.3 | 9.6 | 12.8 | 16.1 | | | 30 | 9.58 − 2.28 | +2.45 |
| | | | | 40.6 | | | | | | | | | + 54.07 31 0.96 | |
| | $\alpha_1$ | | | 43.9 | | | | | | | + 53.70 | | − .35 | −18.4 |
| | | | | 43.7 | | | | | | | | | − 2 | |
| | | | | | | | | | | | | 31 | 3.28 | |
| | | | 8.9 | 30 39.8 | 31 0.6 | 4.1 | 7.0 | 10.3 | 13.5 | | | 31 | 7.10 − 2.40 | +2.4 |
| | | | | 41.9 | | | | | | | | | − 3.45 31 0.88 | −18.4 |
| | κ | | | 42.0 | | | | | | | | | − .54 | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 40.7 | | | | | | | − 4.01 | | − 2 | |
| | | | | | | | | | | | | 31 | 3.09 | |
| | $\alpha_2$ | | | | | | | | | | | | − 2.26 | |
| | | | | | | | | | | | | 31 | 0.83 | +2.4 |
| | | | | | | | | | | | | | | −18. |
| | 32 | 55 50 41 | 9.8 | 33 38.2 | 33 0.0 | 3.6 | — | 9.5 | 13.6 | | | 32 | 6.68 | |
| | 32 | 13.9 50 46.2 | 9.4 | 1 41.3 | | | | | | | | | + 56.56 | 32 |
| | κ | | | 44.5 | | | | | | | | | − .51 | |
| | | | 9.6 | 41.3 | | | | | | | + 56.03 | | − 2 34 2.71 | 8 |
| June 2 | ((δ) − D) $\frac{\kappa'}{100}$ | | | 31 41.4 | 32 2.6 | 5.7 | 8.9 | 12.4 | 15.4 | | | 32 | 9.00 − 2.31 | +2.43 |
| | | | | 44.9 | | | | | | | | | + 54.07 34 0.40 | |
| | $\alpha_1$ | | | 44.8 | | | | | | | + 53.70 | | − .35 33 | −18.4 |
| | | | | 44.7 | | | | | | | | | − 2 | |
| | | | | | | | | | | | | | 33 2.70 | |
| | 30 | 44.9 50 13.7 | | 31 43.3 | 31 31.9 | 35.2 | 38.3 | 41.7 | 45.0 | | | 31 | 38.42 − 2.43 | |
| | | | | 47.0 | | | | | | | | | − 3.45 33 0.27 | +2.4 |
| | κ | | | 33.6 | | | | | | | | | − 55 32.13 | −18.4 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 47.0 | | | | | | | − 4.02 | | − 2 71 | |
| | | | | | | | | | | | | 31 | 34.40 | |
| | $\alpha_2$ | | | | | | | | | | | | 41.30 | |
| | | | | | | | | | | | | 31 | −2.27 32.13 | +2. |
| | 35 | 09 51 10 | 6.5 | 33 2.3 | 35 23.1 | 26.3 | 29.6 | 33.9 | 36.2 | | | 35 | 29.62 | |
| | 34 | 27.9 51 15.7 | 7.0 | 4 5.1 | | | | | | | | | + 56.56 | 35 |
| | κ | | | 8.1 | | | | | | | | | − .52 | |
| | | | 6.0 | 5.2 | | | | | | | + 56.02 | | − 2 36 25.64 | 43 |
| June 2 | ((δ) − D) $\frac{\kappa'}{100}$ | | | 33 56.8 | 34 25.4 | 28.7 | 32.0 | 35.4 | 38.6 | | | 34 | 32.01 − 2.34 | |
| | | | | 0.8 | | | | | | | | | + 54.07 35 23.30 | +2.4 |
| | $\alpha_1$ | | | 3.6 | | | | | | | | | − .36 | −18.3 |
| | | | | 60.4 | | | | | | | + 53.69 | | − 2 35 25.70 | |
| | | | 6.8 | 34 68.0 | 35 22.9 | 26.5 | 29.5 | 32.9 | 36.1 | | | 35 | 29.58 − 2.46 | |
| | | | | 1.2 | | | | | | | | | − 3.45 35 23.24 | +2.4 |
| | κ | | | 4.0 | | | | | | | | | − .56 | −18. |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 61.1 | | | | | | | − 4.03 | | − 2 | |
| | | | | | | | | | | | | 35 | 25.55 | |
| | $\alpha_2$ | | | | | | | | | | | | − 2.32 | |
| | | | | | | | | | | | | 35 | 23.23 | +2.4 |
| | | | | | | | | | | | | | | −18. |

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Runs $R_{eq}$ = June 2. +10 15.84 +.01 | June 9. 20.14 +.06 | June 10. 17.41 +.07

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | June 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| d | +28.1 | 1 16.8 | 33.9 | 56 | 25.35 | 52 26 23.00 | | | 55 | 52 36 27.56 | 36 26.59 |
| | 1.30320 | 36 42.14 | | | | −15.58 | 36 27.56 | | | − .11 | − .8 |
| | 9.78329 | | | | | | | | | + .8 | + 1 |
| | 1.12249 | | | | | | | | | + 9.98 | + 10.45 |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | + .40 | + .40 |
| | | | | | | | | | | −5.40 | − 4.30 |
| $\delta_1$ | | 29 17.28 | | 36 14.0 | | | 36 26.59 | | | 36 32.51 | 36 33.07 |
| | | 17.24 | | 14.5 | | | | | | | |
| | +22.7 | 1 4.3 | 10.4 | 58 | 7.35 | 52 26 41.00 | | | 55 | 37 27.32 | Eq min |
| | −3.73 | | | | | 36 58.41 | | | | − .14 | +10.57 |
| | 1.57171 | | | | | +28.91 | | | | + .8 | |
| | 9.78329 | | | | | | 36 40.82 | | | + 10.23 | |
| | 1.46100 | | | | | | | | | + .40 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | −5.60 | |
| $\delta_2$ | | 29 17.29 | | 36 13.7 | | | | | | 37 32.29 | |
| d | | | | | | | | | | 51 46 21.36 | 46 21.36 |
| | | | | | | | | | | − .14 | − .14 |
| | | | | | | | | | | | + 1 |
| | | | | | | | | | | | + 9.59 |
| | | | | | | | | | | | + .39 |
| | | | | | | | | | | | − 4.20 |
| | | | | | | | | | | | 46 27.01 |
| d | +22.9 | 1 21.7 | 27.8 | 46 | 24.75 | 51 36 23.60 | | | 45 | | |
| | 1.35984 | 51 46 21.36 | | 51 46 21.36 | | 46 39.44 | | | | | |
| | 9.79144 | 22.67 | | +9.85 | | −18.08 | | | | | |
| | 1.25728 | 28 25.13 | | 46 8.4 | | | 46 21.36 | | | | |
| d | +13.3 | 1 30.1 | 37.5 | 46 | 33.80 | 51 36 14.55 | | | 45 | 46 21.46 | |
| | 1.12385 | | | | | 46 31.96 | | | | − 5 | +9.82 |
| | 9.79144 | | | | | −10.50 | | | | + 11 | |
| | 1.02129 | | | | | | 46 21.46 | | | + 9.37 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | + .39 | |
| | | | | | | | | | | − 5.50 | |
| $\delta_2$ | | 28 22.83 | | 46 7.2 | | | | | | 46 25.78 | |
| d | +22.7 | 0 25.2 | 40.4 | 25 | 32.80 | 49 57 15.53 | | | 25 | 50 7 17.12 | 7 16.44 |
| | 1.35603 | 50 7 35.69 | | | | −18.57 | 7 17.12 | | | − 14 | − .23 |
| | 9.80686 | | | | | | | | | + 3 | + 0 |
| | 1.26889 | 0 31.1 | 27.1 | 25 | 24.10 | 49 57 24.25 | | | 25 | + 7.51 | + 7.87 |
| $((\delta) - D)\frac{d'}{100}$ | +28.9 | 50 7 17.12 | 50 | 7 16.44 | | 50 7 40.09 | | | | + .30 | + .30 |
| | 1.46090 | +7.70 | | +7.94 | | −23.65 | 7 16.44 | | | − 21.80 | − 3.70 |
| $\delta_1$ | 9.80686 | 31 3.41 | | 7 1.5 | | | | | | 7 20.62 | 7 20.68 |
| | 1.37376 | 3.33 | | 2.2 | | | | | | | |
| | +26.2 | 0 25.2 | 32.0 | 25 | 28.60 | 49 57 19.75 | | | 25 | 15.72 | |
| | 1.41830 | | | | | 50 7 37.16 | | | | − .18 | +7.85 |
| | 9.80686 | | | | | −21.44 | | | | + 4 | |
| | 1.33116 | | | | | | 7 15.72 | | | + 7.69 | |
| d | | | | | | | | | | + .30 | |
| | | | | | | | | | | − 5.00 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | 7 18.57 | |
| $\delta_2$ | | 31 3.28 | | 7 0.1 | | | | | | | |
| | +25.4 | 2 24.4 | 38.2 | 52 | 31.30 | 50 30 17.05 | | | 50 | 50 40 16.65 | 40 14.64 |
| | 1.40883 | | | | | 40 37.19 | | | | − .17 | − .15 |
| | 9.80182 | | | | | −20.54 | 40 16.65 | | | + 15 | + 2 |
| | 1.31265 | 2 27.0 | 32.8 | 52 | 29.90 | 50 30 18.45 | | | 50 | + 8.07 | + 8.44 |
| $((\delta) - D)\frac{d'}{100}$ | +28.3 | 50 40 16.65 | 50 | 40 14.64 | | 40 34.29 | | | | + .33 | + .23 |
| | 1.38561 | +8.38 | | +8.64 | | −19.65 | 40 14.64 | | | − 4.80 | − 3.60 |
| $\delta_1$ | 9.80182 | 33 2.83 | | 40 1.8 | | | | | | 40 20.23 | 40 19.68 |
| | 1.29343 | 2.70 | | 1.2 | | | | | | | |
| | −8.6 | | | | | | | | | | |
| | 0.93450 | | | | | | | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | − 5.10 | |
| $\delta_2$ | | 31 34.56 | | | | | | | | | |
| | +24.4 | 3 23.7 | 38.0 | 23 | 30.85 | 50 59 17.50 | | | 20 | 51 9 18.11 | 17.15 |
| | 1.38739 | 51 9 37.64 | | | | −19.53 | 9 18.11 | | | − 15 | − .27 |
| | 9.79731 | | | | | | | | | + 21 | + 3 |
| | 1.29070 | 3 19.0 | 24.5 | 23 | 21.75 | 50 59 26.60 | | | 20 | + 8.53 | + 8.94 |
| $((\delta) - D)\frac{d'}{100}$ | +31.6 | 51 9 18.11 | 51 | 9 17.15 | | 51 9 42.44 | | | | + .35 | + .35 |
| | 1.49969 | +8.94 | | +9.05 | | −25.29 | 9 17.15 | | | − 4.80 | − 3.60 |
| $\delta_1$ | 9.79731 | 35 25.70 | | 9 3.9 | | | | | | 9 22.25 | 9 22.60 |
| | 1.40300 | 25.64 | | 4.2 | | | | | | | |
| | +28.5 | 3 22.8 | 29.0 | 23 | 25.90 | 50 59 22.45 | | | 20 | 17.05 | |
| | 1.45484 | | | | | 51 9 39.86 | | | | − .21 | +9.13 |
| | 9.79731 | | | | | −22.81 | 9 17.05 | | | + .25 | |
| | 1.35815 | | | | | | | | | + 8.74 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | + .35 | |
| | | | | | | | | | | − 5.09 | |
| $\delta_2$ | | 35 25.63 | | 9 2.8 | | | | | | 9 21.88 | |

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Date$_1$ = June 9, 1874 (305) Observer W.A.R. Recorder G.F.M.

Date$_2$ = June 10, 1874 (306) Observer Recorder

| Star. | α | δ | Mag. | $T_s$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | |
| | 36m 18s | 52 28 | 9.2 | 37m 13.4s | 36m 21.6s | 23.2 | 28.4 | 31.9 | 35.1 | | | 36 35 | 28.44 |
| | 35 37.1 | 52 33.5 | 9.2 | 35 16.6 | | | | | | | | + | 56.56 |
| | κ | | | 19.5 | | | | | | | | − | 55 |
| June 2 | | | 9.0 | 16.5 | | | | | | | + 55.99 | − | 2 37 24.43 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 35 14.2 | 35 24.0 | 27.2 | 30.8 | 34.1 | 37.5 | | | 35 | 30.72 − 2.41 |
| | | | | 17.1 | | | | | | | | + | 54.07 37 22.02 |
| | $\alpha_1$ | | | 20.8 | | | | | | | | − | .38 36 |
| | | | | 17.4 | | | | | | | + 53.67 | − | 2 36 24.39 |
| | | | 9.0 | 36 1.8 | 36 21.7 | 25.0 | 28.5 | 31.6 | 35.1 | | | 36 | 28.38 − 2.52 |
| | | | | 4.4 | | | | | | | | − | 3.45 36 21.87 |
| | κ | | | 8.0 | | | | | | | 4.06 | − | .58 |
| | | | | 4.7 | | | | | | | − 2.85 | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 36 | 24.33 |
| | | | | | | | | | | | | − | 2.39 |
| | $\alpha_2$ | | | | | | | | | | | 36 | 21.94 |
| | 37 52 | 50 41 | 7.9 | 38 6 31.2 | 37 57.2 | 0.5 | 3.7 | 7.0 | 10.3 | | | 38 7 | 3.74 |
| | 37 12.3 | 50 46.0 | 7.5 | 38.4 | | | | | | | | + | 56.56 |
| | κ | | | 30.1 | | | | | | | | − | 51 |
| June 2 | | | 7.0 | 34.0 | | | | | | | + 56.03 | − | 2 38 59.77 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 38 32.5 | 36 57.6 | 2.8 | 6.1 | 9.4 | 12.8 | | | 37 | 6.14 − 2.33 |
| | | | | 33.4 | | | | | | | | + | 54.07 38 56.44 |
| | $\alpha_1$ | | | 34.9 | | | | | | | | − | .35 37 |
| | | | | 35.3 | | | | | | | + 53.70 | − | 2 37 59.84 |
| | | | 7.8 | 37 33.2 | 37 57.1 | 0.4 | 3.7 | 6.9 | 10.3 | | | 38 | 3.68 − 2.45 |
| | | | | 36.0 | | | | | | | | − | 3.45 37 57.39 |
| | κ | | | 38.7 | | | | | | | | − | .55 |
| | | | | 36.0 | | | | | | | − 4.02 | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 37 | 59.66 |
| | | | | | | | | | | | | − | 2.31 |
| | $\alpha_2$ | | | | | | | | | | | 37 | 57.35 |
| | 38 49 | 52 07 | 8.9 | 38 7 34.2 | 38 52.4 | 55.7 | 59.0 | 2.4 | 5.7 | | | 38 7 | 59.04 |
| | 38 7.7 | 52 11.9 | 8.9 | 37.6 | | | | | | | | + | 56.66 |
| | κ | | | 40.7 | | | | | | | | − | .54 |
| June 2 | | | 9.0 | 37.5 | | | | | | | + 56.00 | − | 2 39 55.04 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 37 33.4 | 37 54.6 | 58.1 | 1.4 | 4.6 | 8.1 | | | 38 | 1.56 − 2.39 |
| | | | | 36.1 | | | | | | | | + | 54.07 39 52.65 |
| | $\alpha_1$ | | | 40.4 | | | | | | | | − | .37 38 |
| | | | | 36.6 | | | | | | | + 53.68 | − | 2 38 55.24 |
| | | | 9.0 | 38 40.1 | 38 52.3 | 55.8 | 59.0 | 2.3 | 5.8 | | | 38 | 59.04 − 2.51 |
| | | | | 44.2 | | | | | | | | − | 3.44 52.73 |
| | κ | | | 47.3 | | | | | | | | − | 58 |
| | | | | 44.0 | | | | | | | − 4.04 | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 38 | 55.00 |
| | | | | | | | | | | | | − | 2.37 |
| | $\alpha_2$ | | | | | | | | | | | 38 | 52.63 |
| | 39 37 | 52 26 | 9.2 | 39 8 30.3 | 39 40.5 | 43.8 | 47.3 | 50.7 | 53.7 | | | 39 8 | 47.20 |
| | 38 55.7 | 52 31.0 | 9.3 | 33.2 | | | | | | | | + | 56.56 |
| | κ | | | 36.3 | | | | | | | | − | 58 |
| June 2 | | | 9.2 | 33.3 | | | | | | | + 55.99 | − | 2 40 43.19 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 38 30.6 | 38 43.0 | 46.6 | 49.6 | 53.1 | 56.5 | | | 38 | 49.76 − 2.41 |
| | | | | 32.8 | | | | | | | | + | 54.07 39 40.78 |
| | $\alpha_1$ | | | 36.0 | | | | | | | | − | .38 |
| | | | | 34.1 | | | | | | | + 53.67 | − | 2 39 43.43 |
| | | | 9.3 | 39 36.2 | 39 40.5 | 43.9 | 47.1 | (50.5) | 54.0 | | | 39 | 47.20 − 2.53 |
| | | | | 38.2 | | | | | | | | − | 3.44 40.90 |
| | κ | | | 42.2 | | | | | | | | − | .58 |
| | | | | 39.2 | | | | | | | | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | − 4.04 | 39 | 43.16 |
| | | | | | | | | | | | | − | 2.39 |
| | $\alpha_2$ | | | | | | | | | | | 39 | 40.77 |
| | 41 31 | 52 38 | 8.5 | 41 0 11.0 | 41 34.6 | 38.1 | 41.4 | 44.9 | 48.2 | | | 41 0 | 41.44 |
| | 40 50.4 | 52 42.9 | 8.6 | 15.2 | | | | | | | | + | 56.56 |
| | κ | | | 14.5 | | | | | | | | − | 55 |
| June 2 | | | 8.7 | 14.6 | | | | | | | + 55.99 | − | 2 42 37.43 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 40 12.9 | 40 37.0 | 40.4 | 43.9 | 47.1 | 50.6 | | | 40 | 43.50 − 2.43 |
| | | | | 16.3 | | | | | | | | + | 54.07 42 35.00 |
| | $\alpha_1$ | | | 19.4 | | | | | | | | − | 38 41 |
| | | | | 16.2 | | | | | | | + 53.67 | − | 2 41 37.47 |
| | | | 8.7 | 41 25.1 | 41 34.6 | 38.0 | 41.5 | 44.8 | 48.2 | | | 41 | 41.42 − 2.55 |
| | | | | 27.8 | | | | | | | | − | 3.44 41 34.92 |
| | κ | | | 31.1 | | | | | | | | − | 58 |
| | | | | 28.0 | | | | | | | − 4.04 | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 41 | 37.38 |
| | | | | | | | | | | | | − | 2.41 |
| | $\alpha_2$ | | | | | | | | | | | 41 | 34.97 |

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Runs

June 2.

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +11.9 | 0 57.9 | 8.0 | 5 | 59.95 | 52 16 48.40 | | | 5 | 52 26 59.29 | 26 57.29 |
| 28 | 1.07555 | | | | | 27 8.54 | | | | − 4 | − 5 |
| d | 9.78494 | | | | | −9.25 | 26 59.29 | | | + 6 | + 1 |
| 34 | 0.966 49 | 0 53.2 | 59.9 | 5 | 56.55 | 52 16 51.80 | | | 5 | + 9.83 | + 10.29 |
| (δ) − D $\frac{d'}{100}$ | +13.3 | 52 26 59.29 | 52 26 57.29 | | | 27 7.64 | | | | + .40 | + 40 |
| +2.36 | 1.12385 | +10.25 | +10.65 | | | −10.35 | 26 57.29 | | | − 5.00 | − 3.80 |
| −18.31 $\delta_1$ | 9.78494 | 36 24.38 | 26 46.2 | | | | | | | 27 4.54 | 27 4.14 |
| | 1.01479 | 24.23 | 45.8 | | | | | | | | |
| | +23.7 | 0 45.9 | 53.7 | 5 | 49.80 | 52 16 58.55 | | | 5 | 57.52 | |
| +2.36 | 1.37475 | | | | | 27 15.96 | | | | − .15 | +10.37 |
| −18.31 d | 9.78494 | | | | | −18.44 | | | | + 6 | |
| | 1.26569 | | | | | | 26 57.52 | | | +10.06 | |
| (δ) − D $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 5.20 | |
| +2.36 | | | | | | | | | | | |
| −18.31 $\delta_2$ | | 36 24.30 | | 26 44.4 | | | | | | 27 2.69 | |
| | +29.7 | 2 54.3 | 8.5 | 53 | 1.40 | 50 29 46.95 | | | 50 | 50 39 43.06 | 39 41.72 |
| 40 | 1.47276 | | | | | 40 7.09 | | | | − .24 | − .26 |
| d | 9.80197 | | | | | −24.03 | 39 43.06 | | | + .18 | + 3 |
| 46 | 1.38073 | 2 54.5 | 0.6 | 52 | 57.55 | 50 29 50.80 | | | 50 | + 8.07 | + 8.45 |
| (δ) − D $\frac{d'}{100}$ | +30.8 | 50 39 43.06 | 50 39 41.72 | | | 40 6.64 | | | | + .33 | + .33 |
| +2.40 | 1.48855 | +7.34 | +6.55 | | | −24.92 | 39 41.72 | | | − 4.50 | − 3.40 |
| −18.25 $\delta_1$ | 9.80197 | 37 59.84 | 39 28.6 | | | | | | | 39 46.90 | 39 46.87 |
| | 1.39652 | 59.79 | 39 28.6 | | | | | | | | |
| | +27.7 | 2 59.5 | 3.9 | 53 | 1.70 | 50 29 46.65 | | | 50 | 41.65 | |
| +2.40 | 1.44248 | | | | | 40 4.06 | | | | − .21 | +8.58 |
| −18.25 d | 9.80197 | | | | | −22.41 | | | | + .21 | |
| | 1.35045 | | | | | | 39 41.65 | | | + 8.25 | |
| (δ) − D $\frac{d'}{100}$ | | | | | | | | | | + .33 | |
| | | | | | | | | | | − 4.70 | |
| +2.40 | | | | | | | | | | | |
| −18.25 $\delta_2$ | | 37 59.75 | | 39 27.3 | | | | | | 39 45.53 | |
| | +21.5 | 1 38.1 | 53.1 | 26 | 45.60 | 51 56 2.75 | | | 25 | 52 6 6.03 | 6 4.54 |
| 52 | 1.33244 | | | | | 52 6 22.89 | | | | − 12 | − .17 |
| d | 9.78837 | | | | | −16.86 | 6 6.03 | | | + 11 | + 2 |
| 52 | 1.22681 | 1 37.1 | 43.0 | 26 | 40.05 55.55 | 51 56 8.30 | | | 25 | + 9.47 | + 9.92 ✓ |
| +2.35 (δ) − D $\frac{d'}{100}$ | +25.0 | 52 6 6.03 | 52 6 4.54 | | | 52 6 24.14 | 6 4.54 | | | + .40 | + .40 |
| −18.21 | 1.39794 | +9.86 | +10.17 | | | −19.60 | 5 46.04 | | | − 4.80 | − 3.60 |
| $\delta_1$ | 9.78837 | 38 55.00 | 5 52.9 | | | | | | | 6 11.09 | 6 11.09 |
| | 1.29231 | 55.08 | 52.7 | | | | | | | | |
| +2.35 | +15.0 | 1 46.1 | 53.0 | 26 | 49.55 | 51 55 58.80 | | | 25 | 4.45 | |
| −18.21 | 1.17609 | | | | | 52 6 16.21 | | | | − 6 | +10.18 |
| d | 9.78837 | | | | | −11.76 | | | | + 13 | |
| | 1.07046 | | | | | | 6 4.45 | | | +9.71 | |
| (δ) − D $\frac{d'}{100}$ | | 54.98 | | | | | | | | + .40 | |
| | | | | | | | | | | − 4.90 | |
| +2.35 | | | | | | | | | | | |
| −18.21 $\delta_2$ | | 38 55.02 | | 5 51.5 | | | | | | 6 9.73 | |
| | +17.9 | 2 40.9 | 56.4 | 7 | 48.65 | 52 14 59.70 | | | 5 | 52 25 9.02 | 25 8.09 |
| 56 | 1.14301 | | | | | 25 19.84 | | | | − 5 | − 8 |
| d | 9.78527 | | | | | −10.82 | 25 9.02 | | | + .17 | + 3 |
| 56 | 1.03428 | 2 40.2 | 46.0 | 7 | 43.10 | 52 15 5.25 | | | 5 | + 9.79 | +10.26 |
| (δ) − D $\frac{d'}{100}$ | +16.7 | 52 25 9.02 | 52 25 8.09 | | | 25 21.09 | | | | + .40 | + .40 |
| +2.34 | 1.22272 | +10.31 | +10.61 | | | −13.00 | | | | − 4.80 | − 3.70 |
| −18.19 $\delta_1$ | 9.78527 | 39 [illegible] | 43.2 24 56.3 | | | | 25 8.09 | | | 25 14.53 | 25 15.00 |
| | 1.11399 | 43.24 | 56.8 | | | | | | | | |
| | +8.0 | 2 48.7 | 55.1 | 7 | 51.90 | 52 14 56.45 | | | 5 | 7.63 | |
| +2.34 | 0.90309 | | | | | 25 13.86 | | | | − 2 | +10.61 |
| −18.19 d | 9.78527 | | | | | −6.23 | | | | + 20 | |
| | 0.79836 | | | | | | 25 7.63 | | | +10.03 | |
| (δ) − D $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | | | | | | | − 5.00 | |
| +2.34 | | | | | | | | | | | |
| −18.19 $\delta_2$ | | 39 43.11 | | 24 55.0 | | | | | | 25 13.24 | |
| | +26.8 | 0 8.7 | 35.9 | 55 | 17.30 | 52 27 31.05 | | | 55 | 52 37 30.43 | 37 29.01 |
| 36 | 1.42813 | | | | | 37 51.19 | | | | − .19 | − .21 |
| d | 9.78313 | | | | | −20.76 | 37 30.43 | | | + 2 | + 0 |
| 38 | 1.31726 | 0 11.0 | 16.6 | 55 | 13.80 | 52 27 34.55 | | | 55 | +10.00 | +10.48 |
| (δ) − D $\frac{d'}{100}$ | +27.6 | 52 37 30.43 | 52 37 29.01 | | | 37 50.39 | | | | + .40 | + .40 |
| +2.32 | 1.44091 | +10.23 | +10.67 | | | −21.38 | 37 29.01 | | | − 4.70 | − 3.50 |
| −18.11 $\delta_1$ | 9.78313 | 41 37.32 | 37 17.8 | | | | | | | 37 35.96 | 37 36.18 |
| | 1.33004 | 34.24 | 18.0 | | | | | | | | |
| | +13.4 | 0 22.9 | 39.9 | 55 | 26.40 | 52 27 21.95 | | | 55 | 28.98 | |
| +2.32 | 1.12710 | | | | | 37 39.36 | | | | − 5 | +10.63 |
| −18.11 d | 9.78313 | | | | | −10.38 | | | | + 3 | |
| | 1.01623 | | | | | | 37 28.98 | | | +10.25 | |
| (δ) − D $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| | | | | 6 | | | | | | − 4.90 | |
| +2.32 | | | | | | | | | | | |
| −18.11 $\delta_2$ | | 41 37.29 | | 37 16.5 | | | | | | 37 34.71 | |

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305 — 306 — 100

Date$_1$ = June 9, 1874 / June 2 304 — Observer W. A. R. / Recorder J. F. M. — Date$_2$ = June 10, 1874 — Observer / Recorder

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 43 | 42 s 10 | 51 ′ 26 | 9.0 | 42 m 1 s 84.3 | 42 m 14.6 | 18.0 | 21.3 | 24.5 | 27.9 | | | 42 | 21.26 |
| | 41 29.9 | 51 31.0 | 9.0 | 5.8 | | | | | | | | + | 56.56 |
| | κ | | | 1.9 | | | | | | | + 56.01 | − | 53 |
| June 2 | | | 9.3 | 3.8 | | | | | | | | − | 2 43 17.27 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 41 1.0 | 41 17.4 | 20.5 | 23.6 | 27.0 | 30.4 | | | 41 | 23.78 − 2.37 |
| | | | | 13.7 | | | | | | | | + | 54.07 42 14.90 |
| | $\alpha_1$ | | | 13.3 | | | | | | | + 53.69 | − | .36 |
| | | | | | | | | | | | | − | 2 42 17.47 |
| | | | 8.9 | 42 32.6 | 42 14.9 | 17.7 | 20.8 | 24.3 | 27.7 | | | 42 | 20.97 − 2.50 |
| | | | | 35.9 | | | | | | | | − | 3.44 14.97 |
| | κ | | | 38.7 | | | | | | | | − | 57 |
| | | | | 35.6 | | | | | | | − 4.03 | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 42 | 16.94 |
| | | | | | | | | | | | | − | 2.36 |
| | $\alpha_2$ | | | | | | | | | | | 42 | 14.58 |
| | 44 14 | 52 07 | 9.0 | 43 49.5 | 44 18.8 | 22.2 | 25.4 | 28.6 | 32.2 | | | 43 | 25.44 |
| | 43 36.1 | 52 12.5 | 8.9 | 53.6 | | | | | | | | + | 56.56 |
| | κ | | | 56.3 | | | | | | | | − | 54 |
| June 2 | | | 8.8 | 53.1 | | | | | | | + 56.00 | − | 2 45 21.44 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 42 59.0 | 43 21.2 | 24.6 | 27.9 | 31.1 | 34.6 | | | 43 | 27.88 − 2.42 |
| | | | | 3.4 | | | | | | | | + | 54.07 44 19.02 |
| | $\alpha_1$ | | | 6.3 | | | | | | | + 53.68 | − | .37 |
| | | | | 62.4 | | | | | | | | − | 2 44 21.56 |
| | | | 8.9 | 43 55.0 | 44 19.0 | 22.1 | 25.4 | 28.8 | 32.2 | | | 44 | 25.56 − 2.54 |
| | | | | 59.0 | | | | | | | | − | 3.44 19.02 |
| | κ | | | 1.4 | | | | | | | | − | 58 |
| | | | | 58.5 | | | | | | | − 4.04 | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 44 | 21.52 |
| | | | | | | | | | | | | − | 2.40 |
| | $\alpha_2$ | | | | | | | | | | | 44 | 19.12 |
| | 46 56 | 50 35 | 8.7 | 48 39.1 | 47 0.3 | 3.5 | 6.7 | 10.2 | 13.3 | | | 47 | 6.80 |
| | 46 17.0 | 50 39.8 | 8.5 | 41.8 | | | | | | | | + | 56.56 |
| | κ | | | 45.0 | | | | | | | | − | 51 |
| June 2 | | | 8.6 | 41.7 | | | | | | | + 56.03 | − | 2 48 2.83 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 45 42.9 | 46 2.6 | 6.0 | 9.2 | 12.3 | 15.5 | | | 46 | 9.12 − 2.37 |
| | | | | 46.5 | | | | | | | | + | 54.07 48 0.26 |
| | $\alpha_1$ | | | 44.4 | | | | | | | + 53.70 | − | .35 47 |
| | | | | 46.3 | | | | | | | | − | 2 47 2.82 |
| | | | 8.7 | 46 46.5 | 47 0.3 | 3.5 | 6.7 | 10.2 | 13.4 | | | 47 | 6.86 − 2.49 |
| | | | | 49.6 | | | | | | | | − | 3.44 47 0.33 |
| | κ | | | 52.3 | | | | | | | | − | .55 |
| | | | | 47.5 | | | | | | | − 4.01 | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 47 | 2.85 |
| | | | | | | | | | | | | − | 2.36 |
| | $\alpha_2$ | | | | | | | | | | | 47 | 0.49 |
| | 48 42 | 52 45 | 7.8 | 48 32.4 | 48 46.7 | 50.1 | 53.4 | 56.9 | 0.3 | | | 48 | 53.48 |
| | 48 3.6 | 52 49.7 | 7.2 | 36.3 | | | | | | | | + | 56.56 |
| | κ | | | 38.8 | | | | | | | | − | .55 |
| June 2 | | | 6.9 | 34.5 | | | | | | | + 55.99 | − | 2 49 49.47 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 47 19.4 | 47 49.0 | 52.5 | 55.9 | 59.2 | 2.7 | | | 47 | 55.86 − 2.47 |
| | | | | 24.3 | | | | | | | | + | 54.07 48 47.00 |
| | $\alpha_1$ | | | 27.0 | | | | | | | + 53.67 | − | .38 |
| | | | | 23.7 | | | | | | | | − | 2 48 49.53 |
| | | | 8.0 | 48 22.9 | 48 46.6 | 49.9 | 53.5 | 57.0 | 0.3 | | | 48 | 53.46 − 2.59 |
| | | | | 26.1 | | | | | | | | − | 3.44 46.94 |
| | κ | | | 28.4 | | | | | | | | − | .58 16.97 |
| | | | | 25.9 | | | | | | | − 4.04 | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 48 | 49.42 |
| | | | | | | | | | | | | − | 2.45 |
| | $\alpha_2$ | | | | | | | | | | | 48 | 46.97 |
| | 49 45 | 51 56 | 9.3 | 48 34.9 | 49 57.2 | 54.6 | 57.9 | 1.1 | 4.6 | | | 49 | 57.88 |
| | 49 6.8 | 52 1.3 | 9.0 | 37.0 | | | | | | | | + | 56.56 |
| | κ | | | 41.8 | | | | | | | | − | 54 |
| June 2 | | | 9.2 | 37.7 | | | | | | | + 56.00 | − | 2 50 53.88 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 48 33.6 | 48 53.4 | 56.8 | 0.1 | 3.4 | 6.8 | | | 49 | 0.10 − 2.44 |
| | | | | 36.2 | | | | | | | | + | 54.07 49 51.44 |
| | $\alpha_1$ | | | 40.6 | | | | | | | + 53.68 | − | .37 |
| | | | | 36.8 | | | | | | | | − | 2 49 53.78 |
| | | | 9.1 | 49 30.3 | 49 51.2 | 54.5 | 57.7 | 1.2 | 4.4 | | | 49 | 57.80 − 2.56 |
| | | | | 33.5 | | | | | | | | − | 3.44 51.22 |
| | κ | | | 36.3 | | | | | | | | − | 58 |
| | | | | 33.4 | | | | | | | − 4.04 | − | 2 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 49 | 53.76 |
| | | | | | | | | | | | | − | 2.42 |
| | $\alpha_2$ | | | | | | | | | | | 49 | 51.34 |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | −36.7 | 3 5′ 53.5 | 7.2 | 9′ | 1.35 | 51 13 47.00 | | | 5′ | 57 24 36.36 | 24 36.53 |
| 42 | 1.564670 | | | | | 24 7.14 | | | | − 37 | − 3 |
| d | 9.795107 | | | | | +29.22 | 24 36.36 | | | + 24 | + 3 |
| 21 | 1.465777 | 3 17.1 | 21.5 | 8 | 19.30 | 51 14 29.05 | | | 5 | + 8.78 | + 9.22 |
| ((δ) − D) $\frac{d'}{100}$ | +10.6 | 51 24 36.36 | 51 24 36.53 | | | 24 44.89 | | | | + .37 | + 37 |
| +2.35 | 1.021190 | +9.02 | +9.59 | | | − 8.36 | | | | −4.40 | − 3.20 |
| −18.09 $\delta_1$ | 9.794944 | 43 17.25 | 24 22.9 | | | | 24 36.53 | | | 24 40.98 | 24 42.92 |
| | 0.922134 | 42 17.32 | 24.8 | | | | | | | | |
| | −14.0 | 3 38.2 | 42.9 | 88 | 40.55 | 50 44 7.80 | | | 35 | 24 36.48 | |
| +2.35 | 1.146130 | | | | | 54 25.21 | | | (5) | − 5 | +9.58 |
| −18.09 d | 9.799810 | | | | | +11.27 | | | | + 26 | |
| | 1.051940 | | | | | | 54 36.48 | | | + 9.00 | |
| ((δ) − D) $\frac{d'}{100}$ | | | 2 | | | | | | | + 37 | |
| +2.35 | | | | | | | | | | − 4.60 ? | |
| −18.09 $\delta_2$ | | 42 16.93 | 24 33.4 | | | | | | | 24 41.46 | |
| | +32.3 | 1 3.5 | 18.9 | 25 | 11.20 | 51 56 37.15 | | | 25 | 52 31.98 | 6 30.29 |
| 44 | 1.509200 | | | 26 | | 52 6 57.29 | | 6 | | 6 27 | − 17 |
| 32 d | 9.788050 | | | | | −25.31 | 6 31.98 | | | + 1 | + 1 |
| 2.144 | 1.403255 | 1 11.9 | 16.7 | 26 | 14.30 | 51 56 34.05 | | | 25 | + 9.48 | + 9.94 |
| 2.42 ((δ) − D) $\frac{d'}{100}$ | +25.0 | 52 7 31.98 | 52 6 30.29 | | | 52 6 49.89 | | | | + 40 | + 40 |
| 9.02 +2.32 | 1.397940 | +9.62 | +10.18 | | | −19.60 | 6 30.29 | | | − 4.50 | − 3.20 |
| −18.01 $\delta_1$ | 9.788210 | 44 21.34 | 6 19.1 | | | | | | | 6 37.10 | 6 37.27 |
| 1.56 | 1.292150 | 21.34 | 19.3 | | | | | | | | |
| 2.54 +2.32 | +27.1 | 1 11.2 | 17.0 | 26 | 14.10 | 51 56 34.25 | | | 25 | 6 30.42 | |
| 9.02 −18.01 | 1.432970 | | | | | 52 6 51.66 | | | | − .19 | +10.01 |
| d | 9.788210 | | | | | − 21.24 | | | | + 8 | |
| | 1.327180 | | | | | | 6 30.42 | | | + 9.72 | |
| ((δ) − D) $\frac{d'}{100}$ | | 21.44 | | | | | | | | + 40 | |
| +2.32 | | 44 16.80 | | | | | | | | − 4.60 | |
| −18.01 $\delta_2$ | | | 6 17.8 | | | | | | | 6 35.83 | |
| | +24.9 | 2 1.2 | 16.2 | 57 | 8.70 | 50 25 39.65 | | | 55 | 50 35 39.66 | 35 37.62 |
| 32 | 1.396200 | 3 | | 58 | | 35 5.79 | | | | 34 15 | 34 14 |
| d | 9.802590 | | | | | 34 −20.13 | 35 39.66 | | | + 13 | + 2 |
| 26 | 1.204790 | 2 5.9 | 10.3 | 57 58 | 8.10 | 50 25 40.25 | | | 55 | + 8.01 | + 8.37 |
| 2.83 2.37 ((δ) − D) $\frac{d'}{100}$ | +2.8 | 3 50 35 39.66 | 50 35 37.62 | | | 35 56.09 | | | | + .33 | + .33 |
| 0.26 +2.34 | 1.357930 | +8.32 | +8.58 | | | 34 −18.47 | | | | − 4.00 | − 2.80 |
| −17.91 $\delta_1$ | 9.802590 | 47 2.80 | 34 26.3 1 | | | | 35 37.62 | | | 35 43.98 | 35 43.48 |
| 2.82 | 1.266520 | 2.67 | 25.8 3 | | | | | | | 34 | 34 |
| 2.49 +2.34 | +17.4 | 3 11.9 | 16.2 | 58 | 14.05 | 50 24 34.30 | | | 55 | 34 37.61 | |
| 0.33 −17.91 | 1.240550 | | | | | 34 51.71 | | | | − 8 | +8.64 |
| d | 9.802740 | | | | | −14.10 | | | | + 22 | |
| | 1.149290 | | | | | | 34 37.61 | | | + 8.17 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .33 | |
| +2.34 | | | | | | | | | | − 4.20 | |
| −17.91 $\delta_2$ | | 47 2.83 | 34 24.1 | | | | | | | 34 42.05 | |
| | +17.7 | 3 50.5 | 5.9 | 48 | 58.20 | 52 33 50.15 | | | 45 | 52 43 36.61 | 43 54.55 |
| 38 | 1.247997 | | | | | 44 10.29 | | | | − 8 | − 27 |
| d | 9.782130 | | | | | −13.68 | 43 56.61 | | | + 24 | + 4 |
| 40 | 1.136100 | 3 42.0 | 47.5 | 48 | 44.75 | 52 34 9.60 | | | 45 | + 10.11 | + 10.59 |
| 9.47 2.47 ((δ) − D) $\frac{d'}{100}$ | +32.2 | 52 43 56.61 | 52 43 54.55 | | | 44 19.44 | | | | + 40 | + 40 |
| 17.00 +2.27 | 1.507860 | +10.64 | +10.76 | | | −24.89 | 43 54.55 | | | − 4.30 | − 3.00 |
| 9.53 −17.84 $\delta_1$ | 9.782130 | 48 49.27 | 43 45.1 | | | | | | | 44 2.98 | 44 2.31 |
| | 1.395990 | 44.71 | 44.5 | | | | | | | | |
| 2.59 +2.27 | +27.6 | 3 47.0 | 53.9 | 48 | 50.45 | 52 33 57.90 | | | 45 | 53.98 | |
| 16.94 | 1.440910 | | | | | 44 15.31 | | | | − 21 | +10.82 |
| 6.97 −17.84 d | 9.782130 | | | | | −21.33 | | | | + 27 | |
| | 1.329040 | | | | | | 43 53.98 | | | +10.36 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| +2.27 | | | | | | | | | | − 4.50 | |
| −17.84 $\delta_2$ | | 48 49.24 | 43 42.5 | | | | | | | 44 0.30 | |
| | +20.0 | 2 12.0 | 27.8 | 37 | 19.90 | 51 45 28.45 | | | 35 | 51 55 32.85 | 55 32.45 |
| 22 | 1.301030 | | | | | 55 48.59 | | | | − 11 | − 14 |
| 20 d | 9.782990 | | | | | − 15.74 | 55 32.85 | | | + 14 | + 2 |
| 5388 | 1.197702 | 2 10.9 | 15.9 | 37 | 13.40 | 51 45 34.95 | | | 35 | + 9.30 | + 9.76 |
| 2.44 +2.28 ((δ) − D) $\frac{d'}{100}$ | +23.3 | 51 55 32.85 | 51 55 32.45 | | | 55 50.79 | | | | + .40 | + .40 |
| 1.44 | 1.367360 | +9.73 | +10.04 | | | −18.34 | 55 32.45 | | | − 4.10 | − 2.87 |
| −17.79 $\delta_1$ | 9.782990 | 49 53.72 | 55 20.7 | | | | | | | 55 38.48 | 55 39.69 |
| 53.78 | 1.263350 | 53.50 | 21.19 | | | | | | | | |
| 2.56 +2.28 | +24.4 | 2 10.8 | 17.1 | 37 | 13.95 | 51 45 34.40 | | | 35 | 32.61 | |
| 7.22 | 1.387390 | | | | | 55 51.81 | | | | − 15 | +9.94 |
| −17.79 d | 9.789990 | | | | | −19.20 | | | | + 15 | |
| | 1.284380 | | | | | | 55 32.61 | | | + 9.54 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| +2.28 | | | | | | | | | | − 4.30 | |
| −17.79 $\delta_2$ | | 49 53.62 | 55 20.5 | | | | | | | 55 38.25 | |

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305 306 102

Date$_1$ = June 9, 1874 June 2 304 Observer W.A.R. Recorder J.Fick. Date$_2$ = June 10, 1874 Observer Recorder

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 50 41 | 51 50 | 8.7 | 336 | 50 45.9 | 49.5 | 52.6 | 55.9 | 59.2 | | | 50 52.64 | |
| 50 | 2.9 | 51 55.8 | 8.0 | 37.0 | | | | | | | | + 56.56 | |
| κ | | | | 39.9 | | | | | | | | − .54 | |
| June 2 | | | 8.9 | 36.6 | | | | | | | + 56.00 | − 2 | 51 48.64 |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 49 33.8 | 47 48.4 | 51.7 | 54.9 | 58.4 | 1.5 | | | 49 54.98 | − 2.44 |
| | | | | 36.8 | | | | | | | | + 50.07 | 50 45.20 |
| $\alpha_1$ | | | | 39.9 | | | | | | | +53.68 | − .39 | |
| | | | | 36.8 | | | | | | | | − 2 | 50 48.66 |
| | | | 8.8 | 50 27.1 | 50 46.0 | 49.2 | 52.8 | 56.1 | 59.4 | | | 50 52.70 | − 2.56 |
| | | | | 31.2 | | | | | | | | − 3.44 | 46.10 |
| κ | | | | 36.2 | | | | | | | | − .58 | |
| | | | | 31.5 | | | | | | | − 4.04 | − 2 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | 50 48.66 | |
| | | | | | | | | | | | | − 2.42 | |
| $\alpha_2$ | | | | | | | | | | | | 50 46.24 | |
| 52 | 49 | 52 37 | 8.5 | 1 256 | 52 54.6 | 57.9 | 1.4 | 4.7 | 8.2 | | | 52 1.56 | |
| 52 | 11.6 | 52 42.1 | 8.4 | 28.7 | | | | | | | | + 56.56 | |
| κ | | | | 32.1 | | | | | | | | − .55 | |
| | | | | 28.8 | | | | | | | + 55.99 | − 2 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | 52 57.55 | |
| | | | | | | | | | | | | − 2.48 | |
| $\alpha_1$ | | | | | | | | | | | | 52 55.07 | |
| | | | 8.0 | 52 33.5 | 52 54.6 | 58.1 | 1.4 | 4.8 | 8.3 | | | 53 1.44 | |
| | | | | 36.8 | | | | | | | | − 3.43 | |
| κ | | | | 41.7 | | | | | | | | − .58 | |
| | | | | 37.3 | | | | | | | − 4.03 | − 2 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | 52 57.41 | |
| | | | | | | | | | | | | − 2.46 | |
| $\alpha_2$ | | | | | | | | | | | | 52 54.95 | |
| 53 | 37 | 51 59 | 9.2 | 2 34.5 | 53 42.3 | 45.9 | 49.0 | 52.5 | 55.4 | | | 2 53 49.08 | |
| 52 | 59.4 | 52 3.7 | 9.0 | 39.3 | | | | | | | | + 56.56 | |
| κ | | | | 40.8 | | | | | | | | − .54 | |
| | | | | 37.5 | | | | | | | + 56.00 | − 2 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | 54 45.08 | |
| | | | | | | | | | | | | − 2.47 | |
| $\alpha_1$ | | | | | | | | | | | | 53 42.61 | |
| | | | 9.0 | 53 58.2 | [illegible] | | | | | | | 53 48.92 | |
| | | | | 1.4 | 53 41.7 | 45.7 | 49.0 | 52.3 | 55.7 | | | − 3.43 | |
| κ | | | | 5.1 | | | | | | | | − .58 | |
| | | | | 61.6 | | | | | | | − 4.03 | − 2 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | 53 44.89 | |
| | | | | | | | | | | | | − 2.45 | |
| $\alpha_2$ | | | | | | | | | | | | 53 42.44 | |
| 54 | 56 | 52 47 | 8.0 | 3 33.1 | 55 1.6 | 5.0 | 8.3 | 11.7 | 15.1 | | | 4 55 8.34 | |
| 54 | 18.8 | 52 51.9 | 7.8 | 36.6 | | | | | | | | + 56.56 | |
| κ | | | | 40.2 | | | | | | | | − .56 | |
| | | | | 36.4 | | | | | | | + 55.98 | − 2 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | 56 4.32 | |
| | | | | | | | | | | | | − 2.50 | |
| $\alpha_1$ | | | | | | | | | | | | 55 1.82 | |
| | | | 7.7 | 54 57.2 | 55 1.6 | 5.1 | 8.2 | 11.7 | 15.2 | | | 55 8.36 | |
| | | | | 60 | | | | | | | | − 3.43 | |
| κ | | | | 3.9 | | | | | | | | − .60 | |
| | | | | 60.4 | | | | | | | − 4.05 | − 2 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | 55 4.31 | |
| | | | | | | | | | | | | − 2.48 | |
| $\alpha_2$ | | | | | | | | | | | | 55 1.83 | |
| 59 | 14 | 52 04 | 8.5 | 8 1.46 | 59 38.7 | 42.2 | 45.5 | 48.9 | 52.2 | | | 8 59 45.50 | |
| 58 | 51 [illegible].2 | 52 8.9 | 8.5 | 14.5 | | | | | | | | + 56.56 | |
| κ | | | | 21.1 | | | | | | | | − .54 | |
| | | | | 17.7 | | | | | | | + 56.00 | − 2 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | 00 41.50 | |
| | | | | | | | | | | | | − 2.49 | |
| $\alpha_1$ | | | | | | | | | | | | 59 39.01 | |
| | | | 8.5 | 59 10.5 | 59 38.7 | 42.1 | 45.4 | 48.7 | 52.2 | | | 59 45.42 | |
| | | | | 15.4 | | | | | | | | − 3.43 | |
| κ | | | | 14.7 | | | | | | | | − .58 | |
| | | | | 14.5 | | | | | | | − 4.03 | − 2 | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | 59 41.39 | |
| | | | | | | | | | | | | − 2.47 | |
| $\alpha_2$ | | | | | | | | | | | | 59 38.92 | |

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Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | June 2 δ' |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | S | 2 39.1 | 55.3 | 41 | 49.20 | 51 40 1.15 | | | 40 | 57 50 8.83 | 50 6.35 |
| | +15.8 | | | | | 50 21.29 | | | | − .7 | − .9 |
| d | 1.19866 | 1.09561 | | | | − 12.46 | 50 8.83 | | | + .17 | + .3 |
| | 9.79925 | 2 41.0 | 45.3 | 42 | 43.15 | 51 40 3.20 | | | 40 | + 9.21 | + 8.64 |
| ((δ) − D) $\frac{d'}{100}$ | +17.2 | 51 50 8.83 | 51 50 6.35 | | | 50 21.04 | | | | + .39 | + .39 |
| +2.28 | 1.26007 | +9.70 | +8.97 | | | −14.69 | 50 6.35 | | | − 4.00 | − 2.70 |
| −17.75 $\delta_1$ | 9.79095 | 50 48.48 | 49 56.8 | | | | | | | 50 14.63 | 50 12.62 |
| | 1.15702 | 48.38 | 54.9 | | | | | | | | |
| | +28.2 | 2 39.9 | 46.0 | 42 | 42.95 | 51 40 5.40 | | | 40 | 6.09 | |
| +2.28 | 1.32632 | | | | | 50 22.81 | | | | − .12 | +9.91 |
| −17.75 d | 9.79095 | | | | | −16.72 | | | | + .19 | |
| | 1.22327 | | | | | | 50 6.09 | | | + 9.45 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .39 | |
| +2.28 | | | | | | | | | | − 4.20 | |
| −17.75 $\delta_2$ | | 50 46.52 | | 49 54.0 | | | | | | 50 11.80 | |
| | +32.8 | 1 9.7 | 28.9 | 56 | 17.80 | 52 26 30.55 | | | 55 | 52 36 25.27 | |
| | 1.51587 | | | | | 36 50.69 | | | | − 29 | +10.18 |
| d | 9.78329 | | | | | −25.42 | | | | + 8 | |
| | 1.40516 | | | | | | 36 25.27 | | | +9.99 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| +2.24 | | | | | | | | | | − 4.00 | |
| −17.67 $\delta_1$ | | 52 57.31 | | 36 13.8 | | | | | | 36 31.45 | |
| | +24.1 | 1 20.2 | 26.4 | 56 | 23.30 | 52 26 25.05 | | | 55 | 23.78 | |
| | 1.38202 | | | | | 36 42.46 | | | | − 15 | +10.59 |
| d | 9.78329 | | | | | −18.68 | | | | + 10 | |
| | 1.27131 | | | | | | 36 23.78 | | | +10.24 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | 125 | | | | | | + .40 | |
| +2.24 | | | | | | | | | | − 4.20 | |
| −17.67 $\delta_2$ | | 52 57.19 | | 36 13.2 | | | | | | 36 39.27 | |
| | +11.6 | 4 11.0 | 26.0 | 34 | 18.50 | 51 48 29.85 | | | 30 | 57 58 40.87 | |
| | 1.06446 | | | | | 58 49.99 | | | | − 4 | +10.00 |
| d | 9.78950 | | | | | − 9.12 | | | | + 26 | |
| | 0.95996 | | | | | | 58 40.87 | | | +9.38 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| +2.25 | | | | | | | | | | − 3.90 | |
| −17.64 $\delta_1$ | | 53 44.86 | | 58 29.3 | | | | | | 58 46.97 | |
| | −12.7 | | | | | | | | | | |
| | +47.3 | 4 32.2 | 38.2 | 34 | 35.20 | 51 48 13.15 | | | 30 | 40.54 | |
| | 1.10380 | | | | | 58 30.56 | | | | − 3 | +10.27 |
| d | 9.78950 | | | | | + 9.98 | | | | + 32 | |
| | 0.99930 | | | | | | 57 57.38 | | | + 9.60 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| +2.25 | | | | | | | | | | − 4.00 | |
| −17.64 $\delta_2$ | | 53 44.69 | | 58 29.2 | | | | | | 58 46.81 | |
| | +31.7 | 1 31.5 | 49.0 | 46 | 40.25 | 52 36 8.10 | | | 45 | 52 46 3.76 | |
| | 1.50106 | | | | | 46 28.24 | | | | − 27 | +10.38 |
| d | 9.78180 | | | | | −24.48 | | | | + 10 | |
| | 1.38886 | | | | | | 46 3.76 | | | + 10.15 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| +2.23 | | | | | | | | | | − 4.00 | |
| −17.58 $\delta_1$ | | 55 4.05 | | 45 52.6 | | | | | | 46 10.14 | |
| | +8.0 | 1 54.7 | 1.2 | 46 | 57.95 | 52 35 50.40 | | | 45 | 1.63 | |
| | 0.90309 | | | | | 46 7.81 | | | | − 2 | +10.92 |
| d | 9.78180 | | | | | −6.18 | | | | + 14 | |
| | 0.79089 | | | | | | 46 1.63 | | | + 10.40 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| +2.23 | | | | | | | | | | − 4.10 | |
| −17.58 $\delta_2$ | | 55 4.06 | | 45 50.9 | | | | | | 46 8.45 | |
| | +27.8 | 4 10.0 | 26.8 | 29 | 18.40 | 51 53 29.95 | | | 25 | 52 3 28.28 | |
| | 1.44404 | | | | | 52 3 50.09 | | | | − 21 | +9.89 |
| d | 9.78869 | | | | | −21.81 | | | | + 26 | |
| | 1.33843 | | | | | | 3 28.28 | | | + 9.44 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| +2.22 | | | | | | | | | | − 3.50 | |
| −17.38 $\delta_1$ | | 59 41.23 | | 3 17.3 | | | | | | 3 34.67 | |
| | +30.9 | 4 9.9 | 15.9 | 29 | 12.90 | 51 53 35.45 | | | 25 | 28.61 | |
| | 1.48996 | | | | | 52 3 52.86 | | | | − 25 | +10.12 |
| d | 9.78869 | | | | | −24.25 | | | | + 29 | |
| | 1.38465 | | | | | | 3 28.61 | | | + 9.68 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + .40 | |
| +2.22 | | | | | | | | | | − 3.70 | |
| −17.38 $\delta_2$ | | 59 41.14 | | 3 17.6 | | | | | | 3 35.03 | |

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Date$_1$ = Observer / Recorder

Date$_2$ = Observer / Recorder

| Star. α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| κ | | | | | | | | | | | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| $c_1$ | | | | | | | | | | | | |
| κ | | | | | | | | | | | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| $c_2$ | | | | | | | | | | | | |
| κ | | | | | | | | | | | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| $a_1$ | | | | | | | | | | | | |
| κ | | | | | | | | | | | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| $a_2$ | | | | | | | | | | | | |
| κ | | | | | | | | | | | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| $a_1$ | | | | | | | | | | | | |
| κ | | | | | | | | | | | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| $a_2$ | | | | | | | | | | | | |
| κ | | | | | | | | | | | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| $a_1$ | | | | | | | | | | | | |
| κ | | | | | | | | | | | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| $a_2$ | | | | | | | | | | | | |
| κ | | | | | | | | | | | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| $a_1$ | | | | | | | | | | | | |
| κ | | | | | | | | | | | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| $a_2$ | | | | | | | | | | | | |

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