KG
11366
4.596

1876phmr.prel..165G




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1876phae.proj.1600R

| 1634 | h | m | s | ° | |
|---|---|---|---|---|---|
| | 6 | 30 | 44 | 33 | Feb. 17 |
| | 7 | 26 | 50 | 54 | Mar. 19 |
| | 9 | 33 | 2 | 50 | Apr. 20 |
| | 18 | 8 | 11 | 53 | Aug 12 |

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1876phae.proj.1600R

| | | | |
|---|---|---|---|
| 79.5 | 70.9 | 1099 | 1106 |
| 76.6 | 68.5 | 74.0 | 73.7 |
| 73.5 | 63.6 | 66.2 | 66.0 |
| 79.2 | 72.8 | 80.7 | 77.0 |
| 86.5 | 77.8 | 69.9 | 69.9 |

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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 | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |

Adopted values of i for 1876.

| | | | | | For Circle Readings | For Declinations |
|---|---|---|---|---|---|---|
| 1876. Jan 10 – May 1 | included | 5° 4' 47" | log tang i | 8.94886 | log 15 tang i | log 15 tang i |
| | | | | δi | 0.12495 | 0.12495 n |
| | | | | 0.12193 | | |
| May 3 – July 23 | " | 5 2 41 | | 8.94584 | 0.12193 | 0.12193 n |
| July 24 – Aug 5 | " | 5 4 56 | | 8.94907 | 0.12516 | 0.12516 n |
| Aug 6 – Jan 24 1877 | " | 5 2 59 | | 8.94627 | 0.12236 | 0.12236 n |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 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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1876phae.proj.11600R

455

Date$_1$ = 1876, Jan. 26 n = +.02 | Observer W.A.R. | Recorder J.F.M.

456

Date$_2$ = 1876, Jan. 31 n = +.01 | Observer W.A.R. | Recorder J.F.M.

2

| Star. | α | δ | Mag. | $T_a$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 59 15 | 54 29 | 6.8 | 3 59 27.0 | 59 8.3 | 12.1 | 15.5 | 19.0 | 22.5 | 59 | m s 15.48 | | |
| | 57 58.2 | 25.9 | 6.0 | 30.1 | | | | | + 21.20 | | +21.17 | | |
| | κ | | | 32.7 | | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 29.93 | | | | | | 59 | 36.68 | | |
| | | | | | | | | | | 2 | .97 | | |
| | $a_1$ | | | | | | | | | | 35.71 | | |
| | | | 6.5 | 58 47.4 | 59 6.1 | 9.7 | 13.1 | 16.7 | 20.3 | 59 | 13.18 | | |
| | | | | 50.5 | | | | | | +.005 | + 23.18 | | |
| | κ | | | 52.3 | | | | | + 23.20 | | + 1 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 58.07 | | | | | | 59 | 36.34 | | |
| | | | | | | | | | | 2 | .85 | | |
| | $a_2$ | | | | | | | | | | 35.58 | | |
| 4 | 0 28 | 53 11 | 9.0 | 0 16.1 | 0 22.2 | 25.8 | 29.0 | 32.5 | 35.9 | 0 | 29.08 | | |
| 3 | 59 11.1 | 7.6 | 9.0 | 19.4 | | | | | + 21.20 | | + 21.17 | | |
| | κ | | | 23.3 | | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 19.60 | | | | | | 0 | 50.28 | | |
| | | | | | | | | | | — | .96 | | |
| | $a_1$ | | | | | | | | | | 49.32 | | |
| | | | 9.0 | 59 53.3 | 0 20.2 | 23.4 | 27.0 | 30.4 | 33.8 | 0 | 26.92 | | |
| | | | | 58.6 | | | | | | | + 23.18 | | |
| | κ | | | 1.0 | | | | | + 23.20 | | + 1 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 58.30 | | | | | 19 | 0 | 50.11 | | |
| | | | | | | | | | | — | .85 | | |
| | $a_2$ | | | | | | | | | | 49.26 | | |
| | 2 56 | 53 22 | 9.0 | 2 25.5 | 2 49.4 | 53.0 | 56.0 | 59.6 | 3.1 | 2 | 56.22 | | |
| | 1 37.9 | 18.9 | 8.8 | 31.2 | | | | | + 21.20 | | + 21.17 | | |
| | κ | | | 38.9 | | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 30.20 | | | | | | 3 | 17.42 | | |
| | | | | | | | | | | — | 1.00 | | |
| | $a_1$ | | | | | | | | | | 16.42 | | |
| | | | 8.7 | 2 13.9 | 2 47.3 | 52.7 | 57.0 | 57.3 | 0.9 | 2 | 54.04 | | |
| | | | | 17.0 | | | | | | | + 23.18 | | |
| | κ | | | 20.4 | | | | | + 23.20 | | + 1 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 17.10 | | | | | | 3 | 17.23 | | |
| | | | | | | | | | | — | .86 | | |
| | $a_2$ | | | | | | | | | | 16.36 | | |
| | 4 17 | 54 11 | 7.9 | 3 43.8 | 4 9.5 | 13.2 | 16.6 | 20.3 | 23.7 | 4 | 16.66 | | |
| | 2 59.5 | 8.5 | 7.0 | 46.6 | | | | | + 21.20 | | + 21.17 | | |
| | κ | | | 49.9 | | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 46.77 | | | | | | 4 | 37.86 | | |
| | | | | | | | | | | — | 1.02 | | |
| | $a_1$ | | | | | | | | | | 36.84 | | |
| | | | 7.8 | 3 37.1 | 4 7.4 | 10.8 | 14.3 | 18.0 | 21.5 | 4 | 14.40 | | |
| | | | | 41.0 | | | | | | | + 23.18 | | |
| | κ | | | 43.8 | | | | | + 23.20 | | + 1 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 40.63 | | | | | 19 | 4 | 37.59 | | |
| | | | | | | | | | | — | .91 | | |
| | $a_2$ | | | | | | | | | | 36.68 | | |
| | 5 12 | 54 40 | 8.2 | 4 45.4 | 4 57.0 | 0.6 | 4.1 | 7.9 | 11.4 | 5 | 4.20 | | |
| | 3 45.5 | 36.8 | 8.8 | 49.5 | | | | | | | +21.17 | | |
| | κ | | | 52.1 | | | | | + 21.20 | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 48.83 | | | | | | 5 | 25.40 | | |
| | | | | | | | | | | — | 1.04 | | |
| | $a_1$ | | | | | | | | | | 24.36 | | |
| | 3 45.5 | | 8.2 | 4 44.9 | 4 54.8 | 58.4 | 1.7 | 5.7 | 9.2 | 5 | 1.96 | | |
| | | | | 48.9 | | | | | | | +23.178 | | |
| | κ | | | 51.7 | | | | | + 23.20 | | + 1 | 5 25.14 | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 48.55 | | | | | | 5 | 14.78 | — 93 | |
| | | | 9.2 | 5 23.4 | 5 7.7 | 11.2 | 14.2 | 18.4 | 21.9 | | +23.178 | 23.22 24.28 | |
| | 3 54.5 | | | 27.7 | | | | | + 23.20 | | + 1 | 5 37.98 | |
| | $a_2$ | | | 30.6 | | | | | | | | — 93 | |
| | | | | 27.30 | | | | | | | | 37.05 | |

Add +.005 to (ΔT+n) Jan 31 it has been added to the sum constants and to final R.A

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1876phae..proj..1600R

Runs

φ = 22' 48.35"

4-2

Ja 26 +2 4.80 −.06 +.60

Ja 31 +2 4.22 −.06 +.85

3

| | $T_m - T_c$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ' |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | −1445 | 0 0.0 | 6.0 | 0 55 | 3.00 | 0 27 48.35 | | | 55 | 54 30 | |
| | 1.15990 | 1.15990 | | | | 54 29 50.15 | | | | 6.53 | +13.80 |
| d | 9.91060 | 9.76395 | | | | −15.66 | | | | 54 30 1.34 | 14.40 |
| | 1.19545 | 1.04880 | | | | +11.19 | | | | = 6 | |
| | | | | | | | | | | = 0 | |
| | | | | | | | | | | +13.46 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| −4.69 | | | | | | | | | | −20.40 | |
| −10.07 $\delta_1$ | | 59 31.02 | | 29 45.3 | | | | | | 29 54.74 | 55.34 |
| | +23.11 | 4 29.5 | 34.2 | 63.7 | 4 31.85 | 28 16.50 | | | 50 | 54 29 | 55.63 |
| | 1.36380 | 1.36380 | | 54 | | 54 30 20.72 | | | | 54 30 2.83 | +13.29 |
| d | 9.91069 | 9.76395 | | | | −25.09 | | | | = 14 | 14.14 |
| | 1.39944 | 1.25230 | | | | −17.87 | | | | = 27 | |
| | | | | | | | | | | +13.30 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| | | | | | | | | | | −20.70 | |
| −4.69 | | | | | | | | | | 29 56.42 | 56.27 |
| −10.07 $\delta_2$ | | 59 30.54 | | 29 46.2 | | | | | | | |
| | + 9.48 | 3 35.1 | 39.8 | 149 | 3 37.45 | 9 10.90 | | | 10 | 53 11 5.58 | |
| | 0.97680 | 0.97680 | | | 13 | 53 11 15.30 | | | | 8.13 | +12.01 |
| d | 9.90339 | 9.77761 | | | | −10.12 | | | | = 3 | 12.61 |
| | 1.00051 | 0.87936 | | | | −7.57 | | | | = 22 | |
| | | | | | | | | | | +11.96 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 30 | |
| | | | | | | | | | | −2000 | |
| −4.62 | | | | | | | | | | 11 0.14 | 0.74 |
| −9.98 $\delta_1$ | | 0 44.70 | | 10 50.6 | | | | | | | |
| | +28.62 | 3 16.6 | 23.8 | 40.4 | 3 20.20 | 9 28.45 | | | 10 | 53 11 1.81 | |
| | 1.45670 | 1.45670 | | | 13 | 32.58 | | | | 9.67 | +11.80 |
| d | 9.90349 | 9.77744 | | | | 53 11 32.37 | | | | = 22 | 12.65 |
| | 1.48519 | 1.35409 | | | | −30.56 | | | | = 20 | |
| | | | | | | −22.86 | | | | +11.82 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| | | | | | | | | | | −2040 | |
| −4.62 | | | | | | | | | | 11 2.91 | 1.76 |
| −9.98 $\delta_2$ | | 0 44.64 | | 10 51.8 | | | | | | | |
| | + 26.02 | 2 30.4 | 36.7 | 7.1 | 2 33.53 | 20 14.80 | | | 0 | 53 22 31.76 | |
| | 1.41530 | 1.41530 | | | | 53 22 19.60 | | | | 58.90 | +12.17 |
| d | 9.90443 | 9.77575 | | | | −27.54 | | | | = 18 | 77 |
| | 1.44468 | 1.31600 | | | | −20.70 | | | | = 15 | |
| | | | | | | | | | | +12.15 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 35 | |
| | | | | | | | | | | −2000 | |
| −4.64 | | | | | | | | | | 21 51.07 | 67 |
| −9.79 $\delta_1$ | | 3 11.78 | | 21 41.9 | | | | | | | |
| | +36.94 | 2 19.6 | 26.3 | 45.9 | 2 22.95 | 20 25.40 | | | 0 | 53 21 50.08 | |
| | 1.56750 | 1.56750 | | | | 53 22 2.962 | | | | 22.80.23 | +11.92 |
| d | 9.90443 | 9.77575 | | | | −34.53 | | | | = 36 | 12.77 |
| | 1.50988 | 1.46820 | | | | −29.39 | | | | = 14 | |
| | | | | | | | | | | +12.02 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| | | | | | | | | | | −2040 | |
| −4.64 | | | | | | | | | | 21 51.45 | 52.68 |
| −9.79 $\delta_2$ | | 3 11.72 | | 21 42.8 | | | | | | | |
| | +29.80 | 2 6.2 | 11.9 | 18.1 | 2 9.05 | 10 8.30 | | | 10 | 54 12 20.80 | |
| | 1.47550 | 1.47550 | | | 12 | 12 59.10 | | | | = 23 | +13.16 |
| d | 9.90915 | 9.76695 | | | | 54 12 44.10 | | | | = 13 | 76 |
| | 1.50960 | 1.36740 | | | | −23.30 | | | | +13.12 | |
| | 1.50660 | | | | | | | | | + 40 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | −2020 | |
| −4.69 | | | | | | | | | | 12 13.76 | 14.36 |
| −9.68 $\delta_1$ | | 4 32.15 | | 12 4.7 | | | | | | | |
| | +33.77 | 2 1.5 | 7.0 | 8.5 | 2 4.25 | 10 20 44.10 | | | 10 | 54 12 11.72 | |
| | 1.52850 | 1.52850 | | | 12 | 54 22 48.32 | | | | 22.16 | +12.95 |
| d | 9.91005 | 9.76519 | | | | −16.60 | | | | = 29 | 13.80 |
| | 1.56350 | 1.41864 | | | | −26.22 | | | | = 12 | |
| | | | | | | | | | | +12.96 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| | | | | | | | | | | −2060 | |
| −4.69 | | | | | | | | | | 12 14.45 | 15.30 |
| −9.68 $\delta_2$ | | 4 31.99 | | 12 5.6 | | | | | | | |
| | +15.27 | 0 41.9 | 48.6 | 10.5 | 0 45.25 | 37 8.10 | | | 45 | 54 38 54.30 | |
| | 1.18380 | 1.18380 | | | 45 | 54 39 7.80 | | | | 56.09 | +13.92 |
| d | 9.91149 | 9.76236 | | | | −16.60 | | | | = 6 | 14.52 |
| | 1.22024 | 1.07211 | | | | −11.81 | | | | = 5 | |
| | | | | | | | | | | +13.63 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| | | | | | | | | | | −2030 | |
| −4.73 | | | | | | | | | | 38 49.71 | 50.31 |
| −9.61 $\delta_1$ | | 5 19.63 | | 38 40.7 | | | | | | | |
| | +13.46 | 0 42.1 | 49.0 | 11.1 | 0 45.53 | 37 2.80 | | | 45 | 54 38 52.38 | 54 39 16.68 |
| | 1.12900 | 1.12900 | | | 45 | 54 39 7.02 | | | | 56.71 | +13.76 |
| d | 9.91149 | 9.76236 | | | | −14.64 | | | | = 5 | 14.61 |
| | 1.16544 | 1.01631 | | | | −10.31 | | | | = 5 | |
| | −12.52 | | | | | 32.27 2.80 | | | | +13.46 | +13.46 |
| | 1.09760 | 1.09760 | | | | | | | | + 40 | + 40 |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | −2070 | −2070 |
| −4.73 | | | | | | | | | | 38 49.74 | 38 51.33 |
| −9.61 $\delta_2$ | 9.91149 | 9.76236 | 5 19.50 | 38 41.0 | | | | | | 50.62 | 39 10.60 |
| | 1.13404 | 0.98491 | 5 32.30 | 39 1.0 | | | | | | | |
| | | | | | | 54 39 7.02 | | | | | |
| | | | | | | +9.66 | | | | | |

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1876phae.proj.J600R

455

Date$_1$ = 1876, Jan. 26 — Observer W.A.R. — Recorder J.F.M.

456

Date$_2$ = 1876, Jan. 31 — Observer W.A.R. — Recorder J.F.M.

4

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 6 44 23.9 | 53 17 14.0 | 6.0 5.0 | 4 6 12.3 17.3 21.1 16.57 | 6 36.2 | 39.6 | 43.1 | 46.4 | 49.9 + 21.20 | 6 | 43.04 + 21.17 + 3 | | |
| | κ | | | | | | | | | 7 | 4.24 − 1.04 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 3.20 | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | | | 5.7 | 6 4.6 7.7 11.3 7.87 | 6 32.7 | 37.4 | 40.8 | 44.2 | 47.8 + 23.19 | 6 | 44.78 + 23.178 + 1 | | |
| | κ | | | | | | | | | 7 | 3.96 − .93 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 3.04 | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| | 7 54 36.6 6 | 52 3 0.5 | 9.3 9.0 | 7 26.0 30.3 32.5 29.60 | 7 45.8 | 49.3 | 52.4 | 55.7 | 59.3 + 21.20 | 7 | 52.50 + 21.17 + 3 | | |
| | κ | | | | | | | | | 8 | 13.70 − 1.04 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 12.66 | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | | | 9.3 | 7 ~~18~~ 19.0 21.6 24.0 21.53 | 7 43.9 | 47.2 | 50.4 | 53.5 | 57.1 + 23.20 − 2 | 7 | 57.42 + 23.178 + 1 | | |
| | κ | | | | | | | | | 8 | 13.60 − .93 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 12.689 | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| | 8 40 22.2 7 | 54 19 16.3 | 9.1 9.0 | 8 20.5 24.0 27.2 23.90 | 8 34.4 | 37.8 | 41.2 | 44.9 | 48.6 + 21.20 | 8 | 41.38 + 21.17 + 3 | | |
| | κ | | | | | | | | | 9 | 2.58 − 1.08 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 1.50 | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | | | 9.1 | 8 18.5 21.0 24.6 21.37 | 8 32.2 | 35.7 | 39.2 | 42.8 | 46.5 + 23.19 | 8 | 39.28 + 23.178 + 1 | | |
| | κ | | | | | | | | | 9 | 2.46 − .97 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 1.50 | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| | 11 19 0.6 10 | 53 23 20.5 | 8.2 8.0 | 10 48.8 54.5 57.9 51.73 | 11 11.7 | 15.5 | 18.9 | 22.4 | 26.0 + 21.20 | 11 | 18.90 + 21.17 + 3 | | |
| | κ | | | | | | | | | 11 | 40.10 − 1.10 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 39.00 | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | | | 8.1 | 10 40.1 44.0 46.8 43.63 | 11 9.8 | 13.3 | 16.9 | 20.0 | 23.8 + 23.20 | 11 | 16.76 +23.178 + 1 | | |
| | κ | | | | | | | | | 11 | 39.94 − .99 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 38.967 | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| | 12 19 1.7 11 | 53 1 52 52.0 | 9.0 8.5 | 11 52.4 56.4 59.3 56.03 | 12 12.7 | 16.0 | 19.5 | 22.7 | 26.4 + 21.21 | 12 | 19.46 + 21.18 + 3 | | |
| | κ | | | | | | | | | 12 | 40.67 − 1.10 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 39.57 | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | | 4 4 | 8.4 | 11 44.2 48.5 51.2 47.97 | 12 14.4 | ~~0.6~~ 13.8 | 17.2 | 20.7 | 24.2 + 23.18 | 12 | 17.26 + 23.17 + 1 | | |
| | κ | | | | | | | | | 12 | 40.44 − 1.00 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 39.44 | | |
| | $\alpha_2$ | | | | | | | | | | | | |

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1876phae..proj.1600R

+ .60

+ .85

5

Runs

| | $T_m - T_S$ | A | C | Sum | Mean | Red. to m. wire (Y − I) | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +2647 | 1 29.1 | 33.9 | 63.0 | 6. 1 31.50 | 16′ | 16.″85 | | 5 | 53° ~~17′ 53.″36~~ | |
| | 1.422 70 | 1.422 70 | | | 4 | 53 18 | 21.65 | | | 18 0.56 | +12.12 |
| d | 9.90405 | 9.77643 | | | | | −~~28.29~~ | | | − 18 | 72 |
| | 1.45170 | 1.32408 n | | | | | −21.09 | | | − 9 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 12.09 | |
| | | | | | | | | | | + 30 | |
| −4.65 $\delta_1$ | | 6 58.55 | | 17 43.9 | | | | | | −19.90 | |
| −9.49 | | | | | 6 | | | | | 17 ~~52.78~~ | 5338 |
| | +32.91 | 1 21.5 | 29.0 | 10.5 | 1 25.25 | 52 | 16 23.10 | | 5 | 53 ~~17~~ ~~52.14~~ | |
| | 1.51730 | 1.51730 | | | | 53 | 18 27.32 | | | 18 1.10 | +11.99 |
| d | 9.90405 | 9.77643 | | | | | −~~35.18~~ | | | − 28 | 12.84 |
| | 1.54630 n | 1.41868 n | | | | | −26.22 | | | − 8 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 11.95 | |
| | | | | | | | | | | + 40 | |
| −4.65 $\delta_2$ | | 6 58.39 | | 17 44.2 | | | | | | −20.30 | |
| −9.49 | | | | | 20 | | | | | 17 ~~52.79~~ | 5364 |
| | +22.90 | 0 33.3 | 40.3 | 73.6 | 0 36.80 | 51 | 2 11.55 | | 20 | 52 3 ~~52.27~~ | |
| | 1.35980 | 1.35980 | | | | 52 | 4 16.35 | | | ~~57.58~~ | +10.77 |
| d | 9.89693 | 9.78869 | | | | | −~~24.08~~ | | | − 14 | 1134 |
| | 1.38168 n | 1.27344 n | | | | | −18.77 | | | − 4 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 10.70 | |
| | | | | | | | | | | + 25 | |
| −4.59 $\delta_1$ | | 8 ~~6~~07 | | 3 ~~39.9~~ 40.0 | | | | | | −19.60 | |
| −9.40 | | | | | 20 | | | | | 3 ~~48.73~~ | 4935 |
| | +28.89 | 0 27.6 | 35.2 | 62.8 | 0 31.40 | 5 | 2 16.95 | | 20 | 52 3 ~~51.48~~ | |
| | 1.45075 | 1.45075 | | | | 52 | 4 21.17 | | | ~~58.03~~ | +10.66 |
| d | ~~9.89693~~ | 9.78869 | | | | | −~~29.69~~ | | | − 22 | 1151 |
| | 1.47263 n | 1.36439 n | | | | | −23.14 | | | − 3 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 10.56 | |
| | | | | | | | | | | + 35 | |
| −4.59 $\delta_2$ | | 8 8.10 | | 3 40.1 | | | | | | −20.00 | |
| −9.40 | | | | | 4 | | | | | 3 ~~48.69~~ | 4954 |
| | +17.48 | 4 56.0 | 59.9 | 15.9 | 4 57.95 | 17 | 50.40 | | 0 | 54 19 ~~36.27~~ | |
| | 1.24250 | 1.24250 | | | | 54 | 19 55.20 | | | ~~41.61~~ | +13.29 |
| d | 9.90978 | 9.76572 | | | | | −~~19.93~~ | | | − 8 | 89 |
| | 1.27723 n | 1.13317 n | | | | | −13.59 | | | − 30 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 13.27 | |
| | | | | | | | | | | + 40 | |
| −4.72 $\delta_1$ | | 8 56.78 | | 19 26.1 | | | | | | −20.10 | |
| −9.34 | | | | | | | | | | 19 ~~34.80~~ | 3540 |
| | +19.91 | 4 53.8 | 59.1 | 12.9 | 4 56.45 | 17 | 51.92 | | 0 | 54 19 ~~36.73~~ | |
| | 1.25310 | 1.25310 | | | | 54 | 19 56.13 | | | ~~42.27~~ | +13.13 |
| d | 9.90978 | 9.76572 | | | | | −~~19.90~~ | | | − 8 | 98 |
| | 1.28783 n | 1.14377 n | | | | | −13.92 | | | − 30 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 13.11 | |
| | | | | | | | | | | + 40 | |
| −4.72 $\delta_2$ | | 8 56.78 | | 19 26.2~~4~~ | | | | | | −20.60 | |
| −9.34 | | | | | | | | | | 19 ~~37.74~~ | 3559 |
| | +27.17 | 0 19.7 | 26.1 | 45.8 | 0 22.90 | 22 | 25.45 | | 0 | 53 24 ~~1.16~~ | |
| | 1.43410 | 1.43410 | | | | 53 | 22 30.25 | | | ~~8.66~~ | +12.44 |
| d | 9.90471 | 9.77524 | | | | | −~~29.09~~ | | | − 19 | 1294 |
| | 1.46376 n | 1.33429 n | | | | | −21.59 | | | − 2 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 12.20 | |
| | | | | | | | | | | + 35 | |
| −4.67 $\delta_1$ | | 11 34.33 | | 23 52.6 | | | | | | −19.90 | |
| −9.14 | | | | | | | | | | 24 ~~1.18~~ | 70 |
| | +33.13 | 0 12.8 | 20.7 | 33.5 | 0 16.75 | 53 | 22 31.60 | | 0 | 53 24 ~~1.16~~ | |
| | 1.51020 | 1.51020 | | | | 53 | 24 35.82 | | | ~~10.00~~ | +12.16 |
| d | 9.90471 | 9.77524 | | | | | −~~34.66~~ | | | − 28 | 13.01 |
| | 1.53986 n | 1.41039 n | | | | | −25.73 | | | − 2 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 12.18 | |
| | | | | | | | | | | + 40 | |
| −4.67 $\delta_2$ | | 11 34.30 | | 23 53.7 | | | | | | −20.30 | |
| −9.14 | | | | | 22 | | | | | 24 ~~1.95~~ | 280 |
| | +23.43 | 2 29 | 7.1 | 10.0 | 2 5.00 | 0 | 43.35 | | 20 | 53 2 ~~23.18~~ | |
| | 1.36980 | 1.36980 | | | | 53 | 2 48.15 | | | 29.37 | +11.83 |
| d | 9.90263 | 9.77896 | | | | | −~~24.97~~ | | | − 14 | 1243 |
| | 1.39738 n | 1.27371 n | | | | | −18.78 | | | − 12 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 11.79 | |
| | | | | | | | | | | + 30 | |
| −4.66 $\delta_1$ | | 12 34.91 | | 2 12.9 | | | | | | −18.80 | |
| −9.06 | | | | | 21 | | | | | 2 ~~21.40~~ | 2200 |
| | +29.29 | 1 56.8 | 1.9 | 11.8.7 | 1 59.35 | 0 | 49.00 | | 20 | 53 2 22.01 | |
| | 1.46670 | 1.46670 | | | | 53 | 2 53.22 | | | 29.74 | ~~+11.70~~ |
| d | 9.90263 | 9.77896 | | | | | −~~31.21~~ | | | − 23 | 12.55 |
| | 1.49428 n | 1.37061 n | | | | | −23.48 | | | − 12 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 11.65 | |
| | | | | | | | | | | + 40 | |
| −4.66 | | | | | | | | | | −20.20 | |
| −9.06 $\delta_2$ | | 12 34.78 | | 2 13.0 | | | | | | 2 ~~21.24~~ | 2209 |

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455

Date$_1$ = 1876, Jan. 26 — Observer W.A.R. — Recorder J.F.M.

456

Date$_2$ = 1876, Jan. 30 — Observer W.A.R. — Recorder J.F.M.

6

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 13 34 | 50 29 | 8.9 | 24 13 7.8 | 13 8.0 | 84.3 | 87.7 | 40.4 | 43.8 | 13 | 37.40 | | |
| 12 | 22.3 | 28.2 | 8.8 | 12.5 | | | | | + 21.20 | | + 21.18 | | |
| κ | | | | 14.3 | | | | | | | + 2 | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | 12.20 | | | | | | 13 | 58.60 | | |
| $\alpha_1$ | | | | | | | | | | | − 1.08 | | |
| | | | | | | | | | | | 57.52 | | |
| | | | 9.2 | 12 51.8 | 13 28.8 | 32.9 | 35.2 | 38.5 | 41.5 | 13 | 35.20 | | |
| | | | | 54.4 | | | | | + 23.20 | | + 23.18 | | |
| κ | | | | 56.6 | | | | | | | + 1 | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | 54.27 | | | | | | 13 | 58.38 | | |
| $\alpha_2$ | | | | | | | | | | | − .98 | | |
| | | | | | | | | | | | 57.40 | | |
| | 15 18 | 54 32 | 8.8 | 14 45.2 | 15 13.2 | 16.5 | 19.8 | 23.8 | 27.4 | 15 | 20.14 | | |
| 14 | 0.5 | 28.9 | 9.0 | 48.8 | | | | | + 21.21 | | + 21.18 | | |
| κ | | | | 52.4 | | | | | | | + 3 | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | 48.80 | | | | | | 15 | 41.35 | | |
| $\alpha_1$ | | | | | | | | | | | − 1.16 | | |
| | | | | | | | | | | | 40.19 | | |
| | | | 9.0 | 14 48.6 | 15 11.0 | 14.6 | 18.1 | 21.5 | 25.3 | 15 | 18.10 | | |
| | | | | 47.2 | | | | | + 23.19 | | + 23.18 | | |
| κ | | | | 50.0 | | | | | | | + 1 | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | 46.93 | | | | | | 15 | 41.27 | | |
| $\alpha_2$ | | | | | | | | | | | − 1.06 | | |
| | | | | | | | | | | | 40.23 | | |
| | 16 10 | 54 26 | 8.7 | 15 51.2 | 16 6.2 | 9.8 | 13.2 | 16.7 | 20.4 | 16 | 13.26 | | |
| 14 | 52.1 | 22.9 | 8.9 | 58.1 | | | | | + 21.21 | | + 21.18 | | |
| κ | | | | 57.5 | | | | | | | + 3 | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | 54.60 | | | | | | 16 | 34.47 | | |
| $\alpha_1$ | | | | | | | | | | | − 1.17 | | |
| | | | | | | | | | | | 33.30 | | |
| | | | 9.1 | 15 42.7 | 16 4.0 | 7.6 | 11.1 | 14.9 | 18.1 | 16 | 11.14 | | |
| | | | | 45.3 | | | | | + 23.20 | | + 23.18 | | |
| κ | | | | 48.7 | | | | | | | + 1 | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | 45.97 | | | | | | 16 | 34.31 | | |
| $\alpha_2$ | | | | | | | | | | | − 1.06 | | |
| | | | | | | | | | | | 33.25 | | |
| | 17 28 | 53 9 | 9.4 | 17 0.4 | 17 21.8 | 25.3 | 28.6 | 32.1 | 35.2 | 17 | 28.60 | | |
| 16 | 10.2 | 6.4 | 9.4 | 4.8 | | | | | + 21.21 | | + 21.18 | | |
| κ | | | | 8.3 | | | | | | | + 3 | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | 4.50 | | | | | | 17 | 49.81 | | |
| $\alpha_1$ | | | | | | | | | | | − 1.17 | | |
| | | | | | | | | | | | 48.64 | | |
| | | | 9.5 | 16 57.2 | 17 19.7 | 23.2 | 26.4 | 29.8 | 33.4 | 17 | 26.50 | | |
| | | | | 0.7 | | | | | + 23.19 | | + 23.18 | | |
| κ | | | | 4.7 | | | | | | | + 1 | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | 0.67 | | | | | | 17 | 49.67 | | |
| $\alpha_2$ | | | | | | | | | | | − 1.06 | | |
| | | | | | | | | | | | 48.63 | | |
| | 18 24 | 53 9 | 8.4 | 18 10.6 | 18 15.8 | 19.6 | 23.0 | 26.6 | 29.8 | 18 | 22.96 | | |
| 17 | 5.2 | 6.5 | 8.5 | 15.0 | | | | | + 21.21 | | + 21.18 | | |
| κ | | | | 18.2 | | | | | | | + 3 | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | 14.60 | | | | | | 18 | 44.17 | | |
| $\alpha_1$ | | | | | | | | | | | − 1.18 | | |
| | | | | | | | | | | | 42.99 | | |
| | | | | | | | | | | | 468 | | |
| | | | | | | | | | | | 383 | | |
| | | | 8.4 | 17 57.2 | 18 14.0 | 17.4 | 20.8 | 24.1 | 27.7 | 18 | 20.80 | | |
| | | | | 0.8 | | | | | + 23.20 | | + 23.18 | | |
| κ | | | | 3.8 | | | | | | | + 1 | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | 0.60 | | | | | | 18 | 43.97 | | |
| $\alpha_2$ | | | | | | | | | | | − 1.07 | | |
| | | | | | | | | | | | 42.93 | | |

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+60

Runs

| | $T_m - T_P$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +25.20 | 4 55.1 | 2.4 | 117.5 | 54 4 58.75 | 27′ | 49.60 | | 50 | 50° 29′ 26.17 | |
| | 1.40140 | 1.40140 | | | 7 | 50 29 | 54.40 | | | 33.03 | +8.67 |
| d | 9.88741 | 9.80351 | | | | | −25.93 | | | − 17 | 9.27 |
| | 1.41376 | 1.32986 m | | | | | −21.37 | | | − 30 | |
| | | | | | | | | | | + 8.94 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 20 | |
| | | | | | | | | | | −19.10 | |
| δ1 | | | | | 54 | | | | | 29 22.60 | 23.20 |
| | +40.93 | 4 37.7 | 45.4 | 83.1 | 4 41.58 | 50 28 | 6.80 | | 50 | 50 29 28.90 | |
| | 1.61200 | 1.61200 | | | | 50 30 | 11.02 | | | 36.32 | +8.30 |
| d | 9.88751 | 9.80336 | | | | | −42.72 | | | − 45 | 9.15 |
| | 1.62446 | 1.54031 m | | | | | −34.70 | | | − 28 | |
| | | | | | | | | | | + 8.83 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 20 | |
| | | | | | | | | | | −19.50 | |
| δ2 | | | | | 52 | | | | | 29 25.12 | .97 |
| | +31.34 | 2 35.9 | 41.2 | 77.1 | 2 38.55 | 54 30 | 9.80 | | 50 | 54 31 40.57 | |
| | 1.49610 | 1.49610 | | | | 54 32 | 14.60 | | | 50.35 | +13.48 |
| d | 9.91087 | 9.76360 | | | | | −34.03 | | | − 26 | 14.08 |
| | 1.53192 | 1.38465 m | | | | | −24.25 | | | − 16 | |
| | | | | | | | | | | + 13.50 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| −4.76 δ1 | | 15 35.43 15 | | 31 35.5 | | | | | | − 2010 | |
| −8.82 | | | | | 52 | | | | | 31 43.73 | 44.33 |
| | +31.17 | 2 33.9 | 40.1 | 74.0 | 2 37.00 | 54 30 | 11.35 | | 50 | 54 31 41.72 | |
| | 1.49370 | 1.49370 | | | | 54 32 | 15.57 | | | 57.46 | +13.32 |
| d | 9.91087 | 9.76360 | | | | | −33.85 | | | − 25 16 | 14.17 |
| | 1.52952 | 1.38225 m | | | | | −24.11 | | | − 16 | |
| | | | | | | | | | | +13.33 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| −4.76 δ2 | | 15 35.47 | | 31 36.3 | | | | | | −2050 | |
| −8.82 | | | | | 58 | | | | | 31 44.25 | 45.13 |
| | +18.66 | 3 31.7 | 35.8 | 7.5 | 3 33.75 | 54 24 | 14.60 | | 55 | 54 25 59.62 | |
| | 1.26090 | 1.26090 | | | | 54 26 | 19.40 | | | 26 5.26 | +13.48 |
| d | 9.91033 | 9.76466 | | | | | −19.78 | | | − 9 | 14.08 |
| | 1.29618 | 1.15051 m | | | | | −14.14 | | | − 21 | |
| | | | | | | | | | | +13.38 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| −4.75 δ1 | | 16 28.55 | | 25 50.6 | | | | | | −2000 | |
| −8.76 | | | | | 58 | | | | | 25 58.74 | 59.34 |
| | +25.57 | 3 24.1 | 29.9 | 14.0 | 3 27.00 | 54 24 | 21.35 | | 55 | 54 25 57.87 | |
| | 1.40770 | 1.40770 | | | | 54 26 | 25.57 | | | 26 5.74 | +13.24 |
| d | 9.91033 | 9.76466 | | | | | −27.73 | | | − 17 | 14.09 |
| | 1.44298 | 1.29731 m | | | | | −19.83 | | | − 21 | |
| | | | | | | | | | | +13.22 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| −4.75 δ2 | | 16 28.53 | | 25 50.6 | | | | | | −2050 | |
| −8.76 | | | | | 1.45 | | | | | 25 58.48 | 59.33 |
| | +24.10 | 4 59.1 | 3.8 | 122.9 | 5 1.45 | 53 87 | 46.90 | | 10 | 53 9 25.95 | |
| | 1.38200 | 1.38200 | | | | 53 89 | 51.70 | | | 32.45 | +11.80 |
| d | 9.90339 | 9.77761 | | | | | −25.92 | | | − 15 | 12.40 |
| | 1.41034 | 1.28456 m | | | | | −19.25 | | | − 30 | |
| | | | | | | | | | | + 11.95 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 30 | |
| −4.68 δ1 | | 1743.96 | | 9 16.5 | | | | | | −19.70 | |
| −8.65 | | | | | 14 | | | | | 9 24.56 | 25.15 |
| | +25.83 | 4 54.3 | 59.1 | 13.4 | 4 56.70 | 53 7 | 51.65 | | 10 | 53 9 25.31 | |
| | 1.41210 | 1.41210 | | | | 53 9 | 55.87 | | | 35.22 | +11.73 |
| d | 9.90330 | 9.77778 | | | | | −27.56 | | | − 17 | 12.58 |
| | 1.44035 | 1.31483 m | | | | | −20.65 | | | − 30 | |
| | | 5 | | 16.9 | | | | | | + 11.80 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| −4.68 δ2 | | 1743.94 | | 9 19.0 | | | | | | −2020 | |
| −8.65 | | | | | 15 | | | | | 9 26.75 | 2.760 |
| | + 8.36 | 0 6.0 | 12.1 | 18.1 | 0 9.05 | 53 7 | 39.30 | | 15 | 53 9 35.18 | |
| | 0.92220 | 0.92220 | | | | 53 9 | 44.10 | | | 37.42 | +12.22 |
| d | 9.90330 | 9.77778 | | | | | − 8.92 | | | − 2 | 82 |
| | 0.95045 | 0.82493 m | | | | | − 6.68 | | | − 1 | |
| | | 8831 | | | | | | | | + 11.95 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 30 | |
| −4.68 δ1 | | 1847.67 | | 9 22.0 | | | | | | −19.70 | |
| −8.58 | | | | | 14 | | | | | 9 29.94 | 30.54 |
| | +20.20 | 4 55.7 | 0.1 | 115.8 | 4 57.90 | 53 7 | 50.45 | | 10 | 53 9 33.11 | |
| | 1.30530 | 1.30530 | | | | 53 9 | 54.67 | | | 38.33 | +11.79 |
| d | 9.90330 | 9.77778 | | | | | −21.56 | | | − 11 | 12.64 |
| | 1.33355 | 1.20803 m | | | | | − 16.14 | | | − 30 | |
| | | | | | | | | | | + 11.80 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| | | 3825 | | | | | | | | −20.10 | |
| −4.68 δ2 | | 18 47.64 | | 9 22.5 | | | | | | 9 30.22 | 31.07 |
| −8.58 | | | | | | | | | | | |

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Date$_1$ = 1876, Jan. 26 Observer W.A.R. Recorder J.F.M.

Date$_2$ = 1876, Jan. 31 Observer W.A.R. Recorder J.F.M.

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 19 51 | 53 36 | 9.0 | 4 19 24.1 | 19 45.3 | 49.0 | 52.6 | 55.7 | 59.2 | 19 | 52.36 | | |
| | 18 32.9 | 32.7 | 9.0 | 28.1 | | | | | + 21.21 | | + 21.18 | | |
| | κ | | | 30.5 | | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 27.7 | | | | | | 20 | 13.57 | | |
| | $a_1$ | | | | | | | | | | − 1.20 | | |
| | | | | | | | | | | | 12.37 | | |
| | | | 8.9 | 19 20.1 | 19 43.2 | 46.7 | 50.2 | 53.6 | 57.2 | 19 | 50.18 | | |
| | | | | 24.1 | | | | | + 23.19 | | + 23.18 | | |
| | κ | | | 26.4 | | | | | | | + 1 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 23.53 | | | | | | 20 | 13.35 | | |
| | $a_2$ | | | | | | | | | | − 1.10 | | |
| | | | | | | | | | | | 12.27 | | |
| | 20 58 | 54 48 | 8.8 | 20 27.4 | 20 53.7 | 57.5 | 1.1 | 4.7 | 8.0 | 21 | 1.00 | | |
| | 19 39.5 | 45.1 | 9.0 | 31.0 | | | | | + 21.21 | | + 21.18 | | |
| | κ | | | 34.8 | | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 31.07 | | | | | | 21 | 22.21 | | |
| | $a_1$ | | | | | | | | | | − 1.24 | | |
| | | | | | | | | | | | 20.97 | | |
| | | | 8.9 | 20 25.8 | 20 51.7 | 55.3 | 58.8 | 2.4 | 5.9 | 20 | 58.82 | | |
| | | | | 29.9 | | | | | + 23.20 | | + 23.18 | | |
| | κ | | | 33.1 | | | | | | | + 1 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 29.60 | | | | | | 21 | 21.99 | | |
| | $a_2$ | | | | | | | | | | − 1.13 | | |
| | | | | | | | | | | | 20.86 | | |
| | 37 23 | 54 54 | 8.9 | 36 56.0 | 37 20.7 | 24.0 | 27.8 | 31.7 | 36.0 | 37 | 27.84 | 76 | |
| | 36 4.3 | 51.6 | 8.7 | 0.5 | | | | 3 | + 21.22 | | + 21.19 | | |
| | κ | | | 3.2 | | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 59.90 | | | | | | 37 | 49.06 | | |
| | $a_1$ | | | | | | | | | | − 1.44 | | |
| | | | | | | | | | | | 47.62 | 54 | |
| | | | 9.0 | 37 0.1 | 37 18.3 | 22.0 | 26.5 | 29.0 | 32.6 | 37 | 25.48 | | |
| | | | | 4.9 | | | | | + 23.20 | | + 23.14 | 9 | |
| | κ | | | 7.7 | | | | | | | + 1 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 4.23 | | | | | | 37 | 48.63 | | |
| | $a_2$ | | | | | | | | | | − 1.34 | | |
| | | | | | | | | | | | 47.34 | | |
| | 39 13 | 53 39 | 8.3 | 38 48.3 | 39 8.1 | 11.3 | 15.1 | 18.3 | 21.9 | 39 | 14.94 | | |
| | 37 34.4 | 36.7 | 8.5 | 52.8 | | | | | + 21.22 | | + 21.19 | | |
| | κ | | | 55.3 | | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 52.10 | | | | | | 39 | 36.16 | | |
| | $a_1$ | | | | | | | | | | − 1.44 | | |
| | | | | | | | | | | | 34.72 | | |
| | | | 8.3 | 38 46.9 | 39 8.9 | 9.3 | 12.8 | 16.2 | 19.7 | 39 | 12.78 | | |
| | | | | 50.4 | | | | | + 23.21 | | + 23.14 | 9 | |
| | κ | | | 52.9 | | | | | | | + 1 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 50.07 | | | | | | 39 | 35.93 | | |
| | $a_2$ | | | | | | | | | | − 1.33 | 6 | |
| | | | | | | | | | | | 34.66 | | |
| | 40 46 | 53 31 | 8.8 | 40 13.5 | 40 41.8 | 45.3 | 48.6 | 52.2 | 55.6 | 40 | 48.70 | | |
| | 39 27.4 | 28.8 | 8.7 | 16.0 | | | | | + 21.22 | | + 21.19 | | |
| | κ | | | 18.3 | | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 15.93 | | | | | | 41 | 9.92 | | |
| | $a_1$ | | | | | | | | | | − 1.44 | | |
| | | | | | | | | | | | 8.48 | | |
| | | | 8.8 | 40 16.2 | 40 39.8 | 43.1 | 46.7 | 50.0 | 53.7 | 40 | 46.66 | | |
| | | | | 19.8 | | | | | + 23.20 | | + 23.14 | 9 | |
| | κ | | | 23.0 | | | | | | | + 1 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 19.67 | | | | | | 41 | 9.81 | | |
| | $a_2$ | | | | | | | | | | − 1.35 | | |
| | | | | | | | | | | | 8.51 | | |

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Runs

| | $T_m - T_\odot$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +24.59 | 3 43.9 | 48.1 | 120 | 48 3′ 46.00 | 34′ | 2.″35 | | 45 | 53° 35′ 40.″82 | |
| | 1.390 80 | 1.390 80 | | | | 53° 36 | 7.15 | | | 47.69 +12.40 | |
| d | 9.904 74 | 9.773 36 | | | | | -26.33 | | | -116 13.00 | |
| | 1.420 49n | 1.289 11n | | | | | -19.46 | | | - 23 | |
| | | | | | | | | | | +12.44 | |
| | | 7.65 | | | | | | | | + 35 | |
| -4.72 δ₁ | | 20 18.09 | | 35 32.5 | | | | | | -19.70 | |
| -8.47 | | | | | 48 | | | | | 35 40.39 | 40.99 |
| | +26.65 | 3 39.7 | 46.0 | 85.7 | 3 42.85 | 34 | 5.50 | | 45 | 53 35 41.18 | |
| | 1.425 70 | 1.425 70 | | | | 53 36 | 9.72 | | | 48.63 +12.27 | |
| d | 9.904 74 | 9.773 36 | | | | | -26.54 | | | -19 13.12 | |
| | 1.455 39n | 1.324 01n | | | | | -21.09 | | | - 22 | |
| | | | | | | | | | | +12.28 | |
| | | 7.55 | | | | | | | | + 40 | |
| -4.72 δ₂ | | 20 16.99 | | 35 33.1 | | | | | | -2020 | |
| -8.47 | | | | | 37 | | | | | 35 40.70 | 41.55 |
| | +29.93 | 2 29.4 | 34.2 | 63.6 | 2 31.80 | 45 | 16.58 | | 35 | 54 46 46.75 | |
| | 1.476 10 | 1.476 10 | | | | 54 47 | 21.35 | | | 58.34 +13.81 | |
| d | 9.912 21 | 9.760 93 | | | | | -32.60 | | | -23 14.41 | |
| | 1.513 26n | 1.361 98n | | | | | -23.01 | | | - 15 | |
| | | | | | | | | | | +13.79 | |
| | | 16.18 | | | | | | | | + 40 | |
| -4.79 δ₁ | | 21 25.76 | | 46 44.4 | | | | | | -2000 | |
| -8.37 | | | | | 37 | | | | | 46 52.75 | 52.75 |
| | +29.22 | 2 27.2 | 33.0 | 60.2 | 2 30.10 | 45 | 18.25 | | 35 | 54 46 50.67 | |
| | 1.465 70 | 1.463 70 | | | | 54 47 | 22.47 | | | 47 02.60 +13.65 | |
| d | 9.912 21 | 9.760 93 | | | | | -31.83 | | | -22 19.50 | |
| | 1.502 86n | 1.351 58n | | | | | -22.47 | | | - 15 | |
| | | | | | | | | | | +13.62 | |
| | | | | | | | | | | + 40 | |
| -4.79 δ₂ | | 21 16.10 | | 46 45.7 | | | | | | -2040 | |
| -8.37 | | | | | 30 | | | | | 46 53.25 | 54.10 |
| | +27.94 | 0 3.1 | 8.2 | 11.3 | 0 5.65 | 54 52 | 42.70 | | 30 | 54 54 17.02 | |
| | 1.446 20 | 1.446 20 | | | | 54 54 | 47.50 | | | 26.09 +14.12 | |
| d | 9.912 92 | 9.759 49 | | | | | -30.78 | | | -20 .72 | |
| | 1.484 07n | 1.330 64n | | | | | -21.41 | | | - 0 | |
| | | | | | | | | | | +13.92 | |
| | | | | | | | | | | + 40 | |
| -4.85 δ₁ | | 37 42.69 | | 54 14.3 | | | | | | -19.50 | |
| -7.05 | | | | | 30 | | | | | 54 20.71 | 21.31 |
| | +21.25 | 0 5.5 | 13.0 | 18.5 | 0 9.25 | 54 52 | 39.10 | | 30 | 54 54 20.13 | |
| | 1.327 40 | 1.324 40 | | | | 54 54 | 43.32 | | | 27.03 +14.03 | |
| d | 9.912 92 | 9.759 49 | | | | | -23.19 | | | -11 14.88 | |
| | 1.365 27n | 1.211 84n | | | | | -16.29 | | | - 1 | |
| | | | | | | | | | | +13.75 | |
| | | | | | | | | | | + 40 | |
| -4.85 δ₂ | | 37 42.49 | | 54 14.8 | | | | | | -20.10 | |
| -7.05 | | | | | 45 | | | | | 54 20.96 | 21.81 |
| | +22.84 | 0 17.7 | 22.0 | 39.7 | 0 19.85 | 53 37 | 28.50 | | 45 | 53 39 8.77 | |
| | 1.358 70 | 1.358 70 | | | | 53 39 | 33.30 | | | 15.26 +12.68 | |
| d | 9.906 11 | 9.772 68 | | | | | -24.53 | | | -14 13.28 | |
| | 1.389 76n | 1.256 33n | | | | | -18.04 | | | - 2 | |
| | | | | | | | | | | +12.49 | |
| | | | | | | | | | | + 35 | |
| -4.78 δ₁ | | 39 29.94 | | 39 2.4 | | | | | | -19.20 | |
| -6.90 | | | | | 45 | | | | | 39 5.71 | 9.34 |
| | +22.71 | 0 14.7 | 21.8 | 36.5 | 0 18.25 | 53 37 | 30.10 | | 45 | 53 39 9.93 | |
| | 1.356 20 | 1.356 20 | | | | 53 39 | 34.32 | | | 16.38 +12.59 | |
| d | 9.906 11 | 9.772 68 | | | | | -24.39 | | | -13 13.44 | |
| | 1.387 26n | 1.253 83n | | | | | -17.94 | | | - 2 | |
| | | | | | | | | | | +12.34 | |
| | | | | | | | | | | + 40 | |
| -4.78 δ₂ | | 39 29.88 | | 39 3.1 | | | | | | -1980 | |
| -6.90 | | | | | 52 | | | | | 39 8.17 | 10.02 |
| | +32.77 | 2 37.0 | 41.8 | 78.8 | 2 39.40 | 53 30 | 8.95 | | 50 | 53 31 38.61 | |
| | 1.515 50 | 1.515 50 | | | | 53 32 | 13.75 | | | 47.78 +12.28 | |
| d | 9.905 37 | 9.774 05 | | | | | -35.14 | | | -28 .88 | |
| | 1.545 82n | 1.414 50n | | | | | -25.97 | | | - 16 | |
| | | | | | | | | | | +12.38 | |
| | | | | | | | | | | + 35 | |
| -4.77 δ₁ | | 41 3.41 | | 31 34.8 | | | | | | -1910 | |
| -6.78 | | | | | 50 | 41.81 | | | | 31 40.96 | 41.56 |
| | +26.99 | 2 37.2 | 42.3 | 79.5 | 2 39.70 | 53 30 | 8.60 | | 50 | 53 31 43.88 | 49.43 |
| | 1.431 20 | 1.431 20 | | 8.35 | | 53 32 | 12.82 | 10.82 | | 51.43 +12.26 | |
| d | 9.905 37 | 9.774 05 | | | | | -28.94 | | | -19 13.11 | |
| | 1.461 52n | 1.330 20n | | | | | -21.39 | | | - 16 | |
| | | | | | | | | | | +12.21 | |
| | | | | | | | | | | + 40 | |
| -4.77 δ₂ | | 41 3.74 | | 31 36.2 | | | | | | -1960 | |
| -6.78 | | | | | | | | | | 31 44.04 | 44.94 |
| | | | | | | | | | | 42.94 | |

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455 456 10

Date$_1$ = 1876, Jan. 26 Observer W.A.R. Recorder J.F.M. Date$_2$ = 1876, Jan. 31 Observer W.A.R. Recorder J.F.M.

| Star. | α | δ | Mag. | $T_a$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 41 30 / 40 11.0 | 54 42 / 39.8 | 7.2 / 8.0 | 4 41 16.9 19.9 21.9 19.57 | 41 28.7 | 29.2 | 32.5 | 36.4 | 39.9 + 21.22 | 41 | 32.74 + 21.19 + 3 41 53.96 − 1.48 52.48 | | |
| κ | | | | | | | | | | | | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $a_1$ | | | | | | | | | | | | | |
| | | | 6.7 | 41 6.1 10.3 18.4 9.93 | 41 23.6 | 27.2 | 30.6 | 34.3 | 37.9 + 23.21 | 41 | 30.72 + 23.14 + 1 41 53.87 − 1.39 52.54 | | |
| κ | | | | | | | | | | | | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $a_2$ | | | | | | | | | | | | | |
| | 42 34 / 41 14.6 | 54 49 / 48.8 | 8.0 / 8.0 | 42 6.1 10.8 12.8 9.90 | 42 28.0 | 31.6 | 35.1 | 38.8 | 42.3 + 21.22 | 42 | 35.16 + 21.19 + 3 42 56.38 − 1.50 54.88 | | |
| κ | | | | | | | | | | | | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $a_1$ | | | | | | | | | | | | | |
| | | | 7.8 | 42 5.8 8.6 10.8 8.30 | 42 27 26.2 | 29.8 | 33.1 | 36.7 | 40.3 + 23.20 | 42 | 33.27 + 23.14 + 1 42 56.37 − 1.40 55.02 | | |
| κ | | | | | | | | | | | | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $a_2$ | | | | | | | | | | | | | |
| | 45 5 / 43 47.4 | 52 15 / 12.7 | 8.7 / 8.8 | 44 37.1 40.7 44.0 40.60 | 44 39.3 | 2.4 | 5.7 | 9.4 | 12.7 + 21.22 | 45 | 5.90 + 21.19 + 3 45 27.12 − 1.46 25.66 | | |
| κ | | | | | | | | | | | | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $a_1$ | | | | | | | | | | | | | |
| | | | 8.6 | 44 35.8 39.3 41.9 38.90 | 44 37.1 | 0.6 | 4.2 | 7.3 | 10.8 + 23.21 | 45 | 3.94 + 23.14 + 1 45 27.09 − 1.37 25.72 | | |
| κ | | | | | | | | | | | | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $a_2$ | | | | | | | | | | | | | |
| | 53 12 / 57 57.6 | 53 19 / 17.1 | 8.7 / 8.7 | 52 ~~55.1~~ 1.7 4.6 ~~4.3~~ 3.15 | 53 6.8 | 10.1 | 13.4 | 17.1 | 21.3 + 21.23 | 53 | 12.68 + 21.20 + 3 53 34.91 −1.58 | 33.33 | |
| ((δ) — D) $\frac{\kappa'}{100}$ 57 3.0 | | 53 19.6 | 9.1 | 53 40.3 43.6 46.6 43.50 | 53 [illegible] | 24.0 | 27.1 | 31.8 | 34.7 + 21.23 | 53 | 27.64 + 21.20 + 3 53 48.87 −1.58 | 47.29 | |
| $a_1$ | | | | | | | | | | | | | |
| | | | 9.4 | 52 50.3 53.8 57.3 53.50 | 53 4.8 | 8.3 | 11.8 | 15.1 | 18.4 + 23.20 | 53 | 11.68 + 23.14 + 1 53 34.82 − 1.49 33.39 | | |
| κ | | | | | | | | | | | | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $a_2$ | | | | | | | | | | | | | |

## Single Observations

| Jan. 26 | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 31 29 / 30 10.0 | 54 25 / 22.5 | 8.5 / 8.0 | 31 7.5 10.1 13.2 10.27 | 31 23.0 | 26.3 | 29.9 | 33.4 | 37.1 + 21.22 | 31 | 29.94 + 21.19 + 3 31 51.16 − 1.36 49.80 | | |
| κ | | | | | | | | | | | | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $a_2$ | | | | | | | | | | | | | |

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Runs

| | $T_m - T_s$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +13.17 | 3 19.8 | 24.4 | 44.2 | 43 3′ 22.10 | 39′ | 26.″25 | | 40 | 54° 41′ ~~16.72~~ | |
| | 2.11960 | 1.11960 | | | | 54 41 | 31.05 | | | 20.90 | +13.84 |
| d | 9.91176 | 9.76182 | | | | | ~~14.33~~ | | | − 5 | 14.44 |
| | 1.15631n | 1.00637n | | | | | −10.15 | | | − 20 | |
| | | | | | | | | | | +13.69 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| | | | | | | | | | | −19.30 | |
| −4.85 $\delta_1$ | | 41 48.63 | | 41 9.3 | | | | | | 41 ~~15.07~~ | 16.04 |
| −6.71 | | | | | 43 | | | | | | |
| | +20.79 | 3 11.4 | 17.8 | 9.2 | 3 14.60 | 39 | 33.75 | | 40 | 54 41 ~~15.35~~ | |
| | 1.31780 | 1.31780 | | | | 54 41 | 37.97 | | | 21.95 | +13.60 |
| d | 9.91176 | 9.76182 | | | | | ~~22.62~~ | | | − 11 | 14.45 |
| | 1.35451n | 1.20457n | | | | | −16.02 | | | − 19 | |
| | | | | | | | | | | +13.50 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| −4.85 | | | | | | | | | | −19.90 | |
| −6.71 $\delta_2$ | | 41 48.69 | | 41 9.8 | | | | | | 41 ~~15.65~~ | 16.50 |
| | | | | | 34 | | | | | | |
| | +25.26 | 4 35.0 | 39.0 | 14.0 | 4 37.00 | ~~34~~ 48 | 11.35 | | 30 | 54 49 ~~48.62~~ | |
| | 1.40240 | 1.40240 | | | | 54 50 | 16.15 | | | 56.75 | +13.81 |
| d | 9.91248 | 9.76039 | | | | | ~~27.53~~ | | | − 17 | 14.41 |
| | 1.43983n | 1.28774n | | | | | −19.40 | | | − 28 | |
| | | | | | | | | | | +13.86 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| −4.86 | | | | | | | | | | −19.30 | |
| −6.63 $\delta_1$ | | 42 50.02 | | 49 45.2 | | | | | | 49 ~~51.26~~ | 51.86 |
| | | | | | 34 | | | | | | |
| | +24.92 | 4 31.9 | 37.2 | 9.1 | 4 34.55 | ~~34~~ 48 | 13.80 | | 30 | 54 49 ~~50.86~~ | |
| | 1.39650 | 1.39650 | | | | 54 50 | 18.02 | | | 58.88 | +13.64 |
| d | 9.91248 | 9.76039 | | | | | ~~27.16~~ | | | − 16 | 14.49 |
| | 1.43393n | 1.28184n | | | | | −19.14 | | | − ~~31~~ 37 | |
| | | | | | | | | | | +13.67 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| −4.86 | | | | | | | | | | −19.90 | |
| −6.63 $\delta_2$ | | 42 50.16 | | 49 46.8 | | | | | | 49 ~~52.62~~ | 53.47 |
| | | | | | 8 | | | | | | |
| | +25.30 | 3 56.9 | 0.5 | 117.4 | 3 58.70 | 13 | 49.65 | | 5 | 52 15 ~~27.77~~ | |
| | 1.40310 | 1.40310 | | | | 52 15 | 54.45 | | | 37.81 | +10.78 |
| d | 9.89810 | 9.78674 | | | | | ~~26.68~~ | | | − 17 | 11.38 |
| | 1.42615n | 1.31479n | | | | | −20.64 | | | − 24 | |
| | | | | | | | | | | +10.94 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 25 | |
| −4.71 | | | | | | | | | | −18.60 | |
| −6.42 $\delta_1$ | | 45 20.95 | | 15 20.2 | | | | | | 15 ~~25.99~~ | 26.59 |
| | | | | | 8 | | | | | | |
| | +25.04 | 3 55.3 | 1.6 | 116.9 | 3 58.45 | 13 | 49.90 | | 5 | 52 15 ~~27.72~~ | |
| | 1.39860 | 1.39860 | | | | 52 15 | 54.12 | | | 33.60 | +10.73 |
| d | 9.89810 | 9.78674 | | | | | ~~26.40~~ | | | − 17 | 11.38 |
| | 1.42165n | 1.31029n | | | | | −20.43 | | | − 24 | |
| | | | | | | | | | | +10.79 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 35 | |
| −4.71 | | | | | | | | | | −19.20 | |
| −6.42 $\delta_2$ | | 45 21.07 | | 15 19.6 | | | | | | 15 ~~25.22~~ | 26.07 |
| | | | | | 4 ×20 | | | | | | |
| + 10.13 105 | +12.05 | 4 44.2 | 48.5 | 12.7 | 4 46.35 | 18 | 2.00 | | 0 | 53 19 ~~53.91~~ | ~~58.53~~ 20 19.43 |
| 1.00561 | 1.08100 | 1.08100 | | | | 53 20 | 6.80 | | | 57.21 | − 57.21 |
| 9.77609 | 9.90424 | 9.77609 | | | | | ~~12.80~~ | | | | 4 +12.15 7 +12.14 |
| 0.90665n | 1.11019 | 0.98204n | | | | 836 | ~~9.59~~ 8.07 | | | | − 29 .71 29 74 |
| (δ) − D) $\frac{d'}{100}$ | − 15.86 | | | | | 18 | 2.00 | | | 53 20 ~~23.76~~ | + 12.15 + 12.15 |
| −4.79 | 1.20030n | 1.20030n | | 5328.54 | 1946.5 | 53 20 | 6.80 | | | 19.43 | + 35 + 35 |
| −5.74 $\delta_1$ | 9.90424 | 9.77609 | | | | | + ~~16.96~~ | | | | −1860 −1860 |
| | 1.22949 | 1.10134n | | 42.50 | 20 7.84 | | + 12.63 | | | | 19 ~~50.78~~ 20 12.97 |
| | | | | | | | | | | | ~~51.38~~ 52.50 13.57 |
| −4.79 | + 17.88 | 4 36.9 | 42.1 | 79.0 | 4 39.50 | 18 | 8.85 | | 0 | 53 19 ~~53.95~~ | |
| −5.74 | 1.25240 | 1.25240 | | | | 53 20 | 13.07 | | | 58.83 | +12.02 |
| d | 9.90424 | 9.77609 | | | | | ~~19.12~~ | | | − 8 | 87 |
| | 1.28159 | 1.15344n | | | | | −14.24 | | | − 28 | |
| | | | | | | | | | | +11.98 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| −4.79 | | | | | | | | | | −19.10 | |
| −5.74 $\delta_2$ | | 53 28.60 | | 19 46.9 | | | | | | 19 ~~51.75~~ | 52.60 |
| | | | | | | | | | | | |
| d | | | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | | | | | 58 | | | | | | |
| | + 19.67 | 3 35.2 | 59.2 | 14.4 | 3 57.20 | 23 | 51.15 | | 55 | 54 25 ~~34.61~~ | |
| | 1.29380 | 1.29380 | | | | 54 25 | 55.95 | | | 40.69 | +13.46 |
| d | 9.91033 | 9.76466 | | | | | ~~21.34~~ | | | − 10 | 14.06 |
| | 1.32908n | 1.18341n | | | | | −15.26 | | | − 24 | |
| | c | | | | | | | | | +13.40 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| −4.80 | | | | | | | | | | −19.60 | |
| −7.54 $\delta_2$ | 31 45.00 | | 25 27.6 | | | | | | | 25 ~~34.55~~ | |
| | | | | | | | | | | | 35.15 |

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# Single Observations

Date$_1$ = 1876, Jan. 26 — Observer W.A.R. — Recorder J.F.M. — Date$_2$ = — Observer — Recorder — 12

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 33 10 | 53 49 | 9.0 | 4 32 46.7 | 33 5.5 | 5.8 | 12.5 | 16.1 | 19.6 | 23 | 12.50 | | |
| | 31 51.4 | 47.0 | 9.0 | 49.8 | | | | | + 21.22 | | + 21.19 | | |
| | κ | | | 53.7 | | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 49.73 | | | | | | 33 | 33.72 | | |
| | $\alpha_1$ | | | | | | | | | | − 1.36 | | |
| | | | | | | | | | | | 32.36 | | |
| | 35 14 | 53 24 | 8.5 | 34 46.9 | 35 8.3 | 11.9 | 15.4 | 18.9 | 22.3 | 35 | 15.38 | | |
| | 33 53.2 | 22.0 | 9.0 | 37.4 | 11.9 | | | | + 21.22 | | + 21.19 | | |
| | κ | | | 54.7 | 15.4 | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 51.00 | 48 | | | | | 35 | 36.58 | | |
| | $\alpha_2$ | | | | | | | | | | − 1.37 | | |
| | | | | | | | | | | | 35.21 | | |
| | 36 10 | 54 50 | 9.0 | 38 58.2 | 36 7.6 | 11.2 | 14.8 | 18.3 | 22.0 | 36 | 14.76 | | |
| | 34 57.3 | 48.0 | 8.3 | 58.4 | | | | | + 21.22 | | + 21.19 | | |
| | κ | | | 57.2 | | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 53.60 | | | | | | 36 | 35.98 | | |
| | $\alpha_1$ | | | | | | | | | | − 1.42 | | |
| | | | | | | | | | | | 34.56 | | |
| | 55 7 | 53 10 | 9.1 | 54 46.3 | 55 3.9 | 7.8 | 10.9 | 14.3 | 17.8 | 55 | 10.88 | | |
| | 53 ~~46.8~~ | ~~7.7~~ | 9.3 | 48.1 | | | | | + 21.23 | | + 21.20 | | |
| | κ 49.2 | 10.1 | | 53.4 | | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 48.93 | | | | | | 55 | 32.11 | | |
| | $\alpha_2$ | | | | | | | | | | − 1.59 | | |
| | | | | | | | | | | | 30.52 | | |
| | 56 25 | 53 21 | 8.5 | 55 48.2 | 56 19.0 | 22.8 | 26.0 | 29.2 | 32.8 | 56 | 25.96 | | |
| | 55 57.1 | 18.6 | 8.7 | 57.5 | | | | | + 21.23 | | + 21.20 | | |
| | κ | | | 53.4 | | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 50.70 | | | | | | 56 | 47.19 | | |
| | $\alpha_1$ | | | | | | | | | | − 1.61 | | |
| | | | | | | | | | | | 45.58 | | |
| | 57 36 | 53 8 | 8.2 | 57 17.4 | 57 29.5 | 33.2 | 36.6 | 39.7 | 43.3 | 57 | 36.46 | | |
| | 56 16.2 | 0.7 | 8.0 | 20.0 | | | | | + 21.23 | | + 21.20 | | |
| | κ | | | 23.4 | | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 20.27 | | | | | | 57 | 57.69 | | |
| | $\alpha_2$ | | | | | | | | | | − 1.62 | | |
| | | | | | | | | | | | 56.07 | | |
| | 58 37 | 53 41 | 7.8 | 58 18.5 | 58 31.3 | 34.7 | 38.3 | 41.7 | 45.0 | 58 | 38.20 | | |
| | 57 17.5 | 38.8 | 8.5 | 22.2 | | | | | + 21.23 | | + 21.20 | | |
| | κ | | | 25.4 | | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 22.03 | | | | | | 58 | 59.43 | | |
| | $\alpha_1$ | | | | | | | | | | − 1.65 | | |
| | | | | | | | | | | | 57.78 | | |
| | 59 48 | 53 33 | — | 59 18.5 | 59 ~~32.1~~ | ~~25.1~~ | 45.6 | 5.20 | 55.3 | 59 | 48.48 | | |
| | ~~58~~ 28.1 | 31.0 | 8.1 | 22.1 | 41.5 | 45.0 | | | + 21.23 | | + 21.20 | | |
| | κ | | | 25.1 | | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 21.90 | | | | | | 0 | 9.71 | | |
| | $\alpha_2$ | | | | | | | | | | − 1.66 | | |
| | | | | | | | | | | | 8.05 | | |
| 5 | 1 14 | 53 3 | 7.7 | 2 49.4 | 2 58.1 | 1.9 | 5.2 | 8.7 | 11.9 | 3 | 5.16 | | |
| | ~~59~~ ~~54.5~~ | 7.3 | 7.9 | 52.8 | | | | | + 21.23 | | + 21.20 | | |
| | 1 436 | 27.1 | | 55.6 | | | | | | | + 3 | | |
| | κ | | | 52.60 | | | | | | 3 | 26.39 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | − 1.69 | | |
| | $\alpha_1$ | | | | | | | | | | 24.70 | | |
| | 12 20 | 53 25 | 9.3 | | | | | | | | | | |
| | 10 59.3 | 22.9 | 9.0 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |

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+.60

Runs

| | $T_m - T_\odot$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | $\alpha$ | $\delta$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +22.77 | 4 47.7 | 52.0 | 99.7 | 34 | 4985 47' 58".50 | | | 30 | 53 49 38.87 | |
| | 1.35740 | 1.35740 | | | 4 | | | | | 45.38 | +12.63 |
| d | 9.90704 | 9.77695 | | | 34 | 53 50 3.30 | | | | 14 | 13.23 |
| | 1.38939 | 1.25330n | | | | -24.51 | | | | - 29 | |
| | | | | | | -17.92 | | | | + 12.71 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | + 35 | |
| | | | | | | | | | | -19.40 | |
| -4.77 $\delta_1$ | | 33 27.59 | | 49 31.8 | | | | | | 49 38.87 | 39.21 |
| -7.40 | | | | | 59 | | | | | | |
| | +24.36 | 4 52.6 | 56.2 | 8.8 | 4 | 5440 22 53.95 | | | 55 | 58 24 32.67 | |
| | 1.38670 | 1.38670 | | | 59 | 53 24 58.75 | | | | 39.39 | +12.33 |
| d | 9.90471 | 9.77524 | | | | -26.08 | | | | - 15 | .15 |
| | 1.41636 | 1.28689n | | | | -19.36 | | | | - 29 | 1275 |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | + 12.24 | |
| | | | | | | | | | | + 35 | |
| | | | | | | | | | | -19.20 | |
| -4.75 $\delta_2$ | | 35 30.46 | | 24 25.7 | | | | | | 24 32.31 | 32.94 |
| -7.23 | | | | | 33 | | | | | | |
| | +21.16 | 3 39.2 | 43.7 | 82.9 | 3 | 4145 19 6.90 | | | 30 | 54 50 48.63 | |
| | 1.32550 | 1.32550 | | | 33 | 54 51 11.70 | | | | 55.46 | +13.95 |
| d | 9.91257 | 9.76021 | | | | -23.07 | | | | - 11 | 1455 |
| | 1.36382 | 1.21066n | | | | -16.24 | | | | - 22 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | + 13.88 | |
| | | | | | | | | | | + 40 | |
| | | | | | | | | | | -19.50 | |
| -4.84 $\delta_1$ | | 36 29.72 | | 50 43.4 | | | | | | 50 49.01 | 50.51 |
| -7.15 | | | | | 12 | | | | | | |
| | +21.95 | 2 21.1 | 25.0 | 6.1 | 2 | 2305 10 25.30 | | | 10 | 53 12 6.66 | |
| | 1.34140 | 1.34140 | | | 12 | 53 12 30.10 | | | | 12.58 | +1203 |
| d | 9.90358 | 9.77728 | | | | -23.111 | | | | - 13 | 12.63 |
| | 1.36993 | 1.24363n | | | | -17.52 | | | | - 14 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | +12.06 | |
| | | | | | | | | | | + 30 | |
| | | | | | | | | | | -1840 | |
| -4.79 $\delta_2$ | | 55 25.73 | | 12 1.2 | | | | | | 12 6.21 | 6.81 |
| -5.58 | | | | | 4 | | | | | | |
| | +35.26 | 4 31.5 | 34.1 | 5.6 | 4 | 3280 18 15.55 | | | 0 | 53 19 42.61 | |
| | 1.54730 | 1.54730 | | | 4 | 53 20 20.35 | | | | 52.27 | +11.91 |
| d | 9.90424 | 9.77609 | | | | -37.71 | | | | - 33 | 12.51 |
| | 1.57649 | 1.44839n | | | | -28.08 | | | | - 27 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | +12.16 | |
| -4.80 | | | | | | | | | | + 35 | |
| -5.47 $\delta_1$ | | 56 40.78 | | 19 40.9 | | | | | | -1840 | |
| | | | | | 22 | | | | | 19 45.78 | 46.38 |
| | +16.19 | 2 0.1 | 4.0 | 4.1 | 2 | 205 0 46.30 | | | 20 | 53 2 33.85 | |
| | 1.20920 | 1.20920 | | | 22 | 53 2 51.10 | | | | 38.12 | +11.95 |
| d | 9.90263 | 9.77896 | | | | -17.25 | | | | - 7 | 12.55 |
| | 1.23678 | 1.11311n | | | | -12.98 | | | | - 12 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | +11.84 | |
| | | | | | | | | | | + 30 | |
| | | | | | | | | | | -1830 | |
| -4.78 $\delta_2$ | | 57 51.29 | | 0 27.0 | | | | | | 2 31.77 | 32.37 |
| -5.37 | | | | | 44 | | | | | | |
| | +16.17 | 4 37.4 | 40.5 | 27.9 | 4 | 3895 38 9.40 | | | 40 | 53 39 56.83 | |
| | 1.20870 | 1.20870 | | | 44 | 53 40 14.20 | | | | 1.43 | +1253 |
| d | 9.90611 | 9.77268 | | | | -17.37 | | | | - 7 | 13.13 | |
| | 1.23976 | 1.10633n | | | | -12.77 | | | | - 28 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | +12.53 | |
| | | | | | | | | | | + 35 | |
| | | | | | | | | | | -1840 | |
| -4.83 $\delta_1$ | | 58 52.95 | | 39 50.9 | | | | | | 40 39 55.56 | 56.16 |
| -5.29 | | | | | 51 | | | | | | |
| | +26.58 | 1 39.1 | 43.0 | 82.1 | 1 | 4105 31 7.30 | | | 50 | 53 32 43.60 | |
| | 1.42450 | 1.42450 | | | 51 | 53 33 12.10 | | | | 51.05 | +12.46 |
| d | 9.90546 | 9.77387 | | | | -28.50 | | | | - 19 | 13.06 |
| | 1.45491 | 1.32332n | | | | -21.05 | | | | - 10 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | +12.40 | |
| | | | | | | | | | | + 35 | |
| | | | | | | | | | | -1830 | |
| -4.82 $\delta_2$ | | 0 3.23 | | 32 40.6 | | | | | | 32 45.21 | 45.81 |
| -6.18 | | | | | 55 | | | | | | |
| | +12.56 | 0 46.8 | 51.0 | 97.8 | 0 | 4890 26 59.45 | | | 55 | 53 28 53.91 | |
| | 1.09900 | 1.09900 | | | 55 | 53 29 4.25 | | | | 54.29 | +12.58 |
| d | 9.90509 | 9.77456 | | | | -10.94 | | | | - 5 | 13.18 |
| | 1.03904 | 0.99851n | | | | -9.97 | | | | - 5 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | +12.33 | |
| | | | | | | | | | | + 35 | |
| | | | | | | | | | | -1820 | |
| -4.82 $\delta_1$ | | 3 19.88 | | 28 44.4 | | | | | | 28 48.66 | 49.26 |
| -4.91 | | | | | | | | | | | |
| | | 0 32.2 | 35.5 | 7.7 | 0 | 3385 22 14.50 | | | 0 | 53 57 55.20 | |
| | | | | | 0 | 53 24 19.30 | | | | | |
| d | | 9.77541 | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |

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155

Date$_1$ = 1876, Jan. 26 Observer W.A.R. Recorder J.F.M. Date$_2$ = Observer Recorder 14 Ru

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 13 19 | 53 14 | 9.3 | | | | | | | | | | |
| | 11 57.8 | 12.1 | 9.0 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | 14 31 | 53 49 | — | | | | | | | | | | |
| | 13 9.6 | 47.1 | 8.5 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |

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1876phae.proj.1600R

+ .60

15

Runs

| | $T_m - T_S$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 4 40.5 | 44.1 | 4.6 | 9′ 4″.230 | 13′ | 6″.05 | | 5 | | |
| d | | | | | | 53 15 | 10.85 | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | | 0 47.0 | 40.3 | 7.3 | 35 0 4365 | 47 | 4.70 | | 35 | | |
| d | | | | | | 53 49 | 9.50 | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |
| 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 | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |

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1876phae.proj.1600R

Date$_1$ = 1876, Feb. 20 $n = -.12$ Observer W.A.R.
Feb. 21 $n = -.11$ Recorder J.J.M.

Date$_2$ = 1876, Feb. 22 $n = +.01$ Observer W.A.R.
Recorder J.J.M.

16

| Feb. 20 Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 44 18 | 52 13 | 8.5 | 4 43 40.7 | 44 2.7 | 6.1 | 9.3 | 12.7 | 16.1 | 44 | 9.38 | | |
| | 43 0.5 | 10.7 | 8.9 | 44.1 | | | | | | | +30.36 | | |
| | κ | | | 36.2 | | | | | + 30.21 | | − 15 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 44 | 39.59 | | |
| | $a_1$ | | | | | | | | | | − 90 | | |
| | | | | | | | | | | | 38.69 | | |
| 21 | | | 8.8 | 43 41.4 | 44 2.4 | 5.3 | 8.9 | 12.4 | 15.7 | 44 | 8.94 | | |
| | κ | | | 44.7 | | | | | | | +30.83 | | |
| | | | | 41.4 | | | | | + 30.69 | | − 14 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 44.50 | | | | | | 44 | 39.63 | | |
| | $a_2$ | | | | | | | | | | − 87 | | |
| | | | | | | | | | | | 38.76 | | |
| 22 | | | 9.2 | 43 37.8 | 44 1.4 | 5.0 | 8.2 | 11.4 | 15.0 | 44 | 8.20 | | |
| | κ | | | 41.0 | | | | | | | +31.38 | | |
| | | | | 42.9 | | | | | + 31.39 | | + 1 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 40.90 | | | | | | 43 | 39.59 | | |
| | $a_1$ | | | | | | | | | 44 | − 84 | | |
| | | | | | | | | | | 44 | 38.75 | | |
| 20 | | | | | | | | | | | | | |
| | 45 05 | 52 15 | 8.2 | 44 36.2 | 44 49.6 | 53.0 | 56.4 | 59.1 | 3.21 | 44 | 5838 | | |
| | 43 47.4 | 12.7 | 8.8 | 40.0 | | | | | | | +30.36 | | |
| | κ | | | 42.4 | | | | | + 30.21 | | − 15 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 39.53 | | | | | | 45 | 26.59 | | |
| | $a_2$ | | | | | | | | | | − 90 | | |
| | | | | | | | | | | | 25.69 | | |
| 21 | | | 8.7 | 44 42.4 | 44 49.2 | 52.9 | 55.9 | 59.3 | 2.8 | 44 | 5602 | | |
| | κ | | | 44.1 | | | | | | | +30.83 | | |
| | | | | 46.4 | | | | | + 30.69 | | − 14 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 44.50 | | | | | | 45 | 26.71 | | |
| | $a_1$ | | | | | | | | | | − 88 | | |
| | | | | | | | | | | | 25.83 | | |
| 22 | | | 8.8 | 44 38.0 | 44 48.5 | 51.8 | 53.3 | 56.6 | 2.1 | 44 | 5526 | −.01 | |
| | κ | | | 40.8 | | | | | | | +31.38 | | |
| | | | | 44.0 | | | | | + 31.39 | | + 1 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 40.83 | | | | | | 45 | 26.65 | | |
| | $a_2$ | | | | | | | | | | − 85 | | |
| | | | | | | | | | | | 25.79 | | |
| 20 | | | | | | | | | | | | | |
| | 47 0 | 53 32 | 5.5 | 46 23.8 | 46 44.8 | 48.3 | 51.7 | 55.2 | 58.8 | 46 | 51.76 | | |
| | 45 41.3 | 30.3 | 6.0 | 26.9 | | | | | | | +30.36 | | |
| | κ | | | 30.3 | | | | | + 30.20 | | − 16 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 27.00 | | | | | | 47 | 21.96 | | |
| | $a_1$ | | | | | | | | | | − 94 | | |
| | | | | | | | | | | | 21.02 | | |
| 21 | | | 5.0 | 46 14.2 | 46 44.3 | 47.8 | 51.3 | 54.8 | 58.3 | 46 | 5730 | | |
| | κ | | | 19.7 | | | | | | | +30.83 | | |
| | | | | 21.7 | | | | | + 30.68 | | − 15 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 18.53 | | | | | | 47 | 21.98 | | |
| | $a_2$ | | | | | | | | | | − 92 | | |
| | | | | | | | | | | | 21.06 | | |
| 22 | | | 5.7 | 46 18.0 | 46 21.3 | 24.2 | 46 | 50.7 | 54.2 | 58.7 | 5066 | | |
| | κ | | | 21.3 | 43.6 | 47.1 | | | | | +31.38 | | |
| | | | | 24.2 | | | | | + 31.39 | | + 1 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 21.17 | | | | | | 47 | 22.05 | | |
| | $a_1$ | | | | | | | | | | − 89 | | |
| | | | | | | | | | | | 21.16 | | |
| 20 | | | | | | | | | | | | | |
| | 49 11 | 52 16 | 8.0 | 48 33.9 | 48 54.1 | 57.5 | 1.0 | 4.2 | 7.6 | 48 | 088 | | |
| | 47 51.8 | 14.3 | 8.0 | 36.7 | | | | | | | +30.36 | | |
| | κ | | | 39.5 | | | | | + 30.21 | | − 15 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 36.63 | | | | | | 48 | 31.09 | | |
| | $a_2$ | | | | | | | | | | − 92 | | |
| | | | | | | | | | | | 30.17 | | |

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Feb 20 47 | Feb 21 | Feb 22

Runs | Rns = −.14 | R 2 omic. to 4 = −.23

| | $T_m - T_S$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ' |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +33.18 | | | | | | | | | −0.23 | |
| | +26.98 | 0 44.9 | 53.0 | 97.9 | 10 0′ 48.95 | 11′ | 59.40 | 10 | | + 26 | |
| | 1.52088 | 1.46210 | | | | 11 | 4.20 | | 52° 13′ 35.56 | | |
| | 9.78d07 | 9.89791 | | | | 52 14 | 6.10 | | 39.00 | | +10.72 |
| | 1.43290 | 1.48496 | 1.37412n | | | | −30.57 | | − 7.43 | | 50 |
| | ((δ) − D) $\frac{d'}{100}$ | | | | | | −23.67 27.10 | | − 22 | | |
| | | | | | | | | | − 11 | | |
| | | | | | | | | | +10.61 | | |
| −4.70 | $\delta_1$ | 44 33.99 | | 13 22.4 | | | | | + 45 | | |
| −6.49 | | | | | | | | | −2040 | | |
| | | | | | | | | | 13 32.40 30 | 2 | |
| | | | | | | | | | 28.87 | | |
| | +2444 | 0 52.7 | 1.7 | 114.4 | 10 0 57.20 | 11 | 51.15 | 10 | 52 13 21.89 | | |
| | 1.38810 | 1.38810 | | | | 52 13 | 56.85 | | 36.89 | | +10.78 |
| d | 9.89791 | 9.78707 | | | | | −25.76 | | − 16 | | |
| | 1.41096n | 1.30012n | | | | | −19.96 | | − 13 | | 11.04 |
| | ((δ) − D) $\frac{d'}{100}$ | | | | | | | | +1062 | | |
| | | | | | | | | | + 45 | | |
| −4.70 | $\delta_2$ | 44 34.06 | | 13 21.0 | | | | | −2040 | | |
| −6.49 | | | | | | | | | 13 27.94 53 | | |
| | | | | | 10 | | | | | | |
| | + 27.30 | 0 48.8 | 57.9 | 106.7 | 0 53.35 | 11 | 55.00 | 10 | 52 13 31.96 | | |
| | 1.43620 | 1.43620 | | | | 52 13 4 | 33.70 | | 38.44 | | +10.59 |
| d | 9.89791 | 9.78707 | | | | | 6.74 | | − 20 | | 40 |
| | 1.45906n | 1.31822n | | | | | − 26.78 | | − 14 | | |
| | ((δ) − D) $\frac{d'}{100}$ | | | | | | −22.30 | | +1061 48 | | |
| | | | | | | | | | + 45 | | |
| −4.70 | $\delta_1$ | 44 34.05 | | 13 22.0 | | | | | −2040 | | |
| −6.49 | | | | | | | | | 13 28.63 44 | | |
| | | | | | 9 | | | | | | |
| | + 16.85 | 3 59.1 | 5.6 | 124.7 | 4 2.35 | 13 | 46.80 | 5 | 52 15 34.43 | | |
| | 1.22660 | 1.22660 | | | | 52 15 | 52.70 | | 38.95 | | + 10.45 |
| d | 9.89810 | 9.78674 | | | | | − 10.47 | | − 8 | | 22 |
| | 1.24965n | 1.13824n | | | | | − 13.75 | | − 56 | | |
| | ((δ) − D) $\frac{d'}{100}$ | | | | | | | | +10.64 | | |
| | | | | | | | | | + 45 | | |
| −4.71 | $\delta_2$ | 45 20.98 | | 15 22.1 | | | | | −2040 | | |
| −6.42 | | | | | | | | | 15 28.77 64 | | |
| | | | | | 9 | | | | | | |
| | + 11.52 | 4 2.8 | 10.6 | 13.4 | 4 6.70 | 13 | 41.65 | 5 | 52 15 35.21 | | |
| | 1.06140 | 1.06140 | | | | 52 15 | 48.85 | | 37.95 | | + 10.49 |
| d | 9.89801 | 9.78691 | | | | | 47.35 | | − 4 | | 75 |
| | 1.08436n | 0.97326n | | | | | − 12.14 | | − 57 | | |
| | ((δ) − D) $\frac{d'}{100}$ | | | | | | − 9.40 | | +10.65 | | |
| | | | | | | | | | + 45 | | |
| −4.71 | $\delta_1$ | 45 21.12 | | 15 21.9 | | | | | −2040 | | |
| −6.42 | | | | | | | | | 15 28.04 30 | | |
| | | | | | 9 | | | | | | |
| | +14.33 | 4 0.2 | 8.1 | 8.3 | 4 4.15 | 13 | 44.20 | 5 | 52 15 34.83 | | |
| | 1.15620 | 1.15620 | | | | 52 15 | 49.94 | | 38.25 | | +10.31 |
| d | 9.89810 | 9.78674 | | | | | − 15.11 | | − 5 | | 12 |
| | 1.17925n | 1.06489n | | | | | − 11.69 | | − 61 | | |
| | ((δ) − D) $\frac{d'}{100}$ | | | | | | | | +1052 | | |
| | | | | | | | | | + 45 | | |
| −4.71 | $\delta_2$ | 45 21.08 | | 15 21.6 | | | | | −2040 | | |
| −6.42 | | | | | | | | | 15 28.16 27.97 | | |
| | | | | | 51 | | | | | | |
| | + 24.76 | 1 18.9 | 26.5 | 45.4 | 1 22.70 | 31 | 25.65 | 50 | 53 33 5.49 | | |
| | 1.39380 | 1.39380 | | | | 57 | 36.85 | | 12.44 | | +12.28 |
| d | 9.90555 | 9.77370 | | | | 53 33 | 32.35 | | − 16 | | |
| | 1.42430n | 1.29245n | | | | | − 26.56 | | − 20 | | 11.99 |
| | ((δ) − D) $\frac{d'}{100}$ | | | | | | − 19.61 | | +12.08 | | |
| | | | | | | | | | + 50 | | |
| −4.79 | $\delta_1$ | 47 16.23 | | 32 57.4 | | | | | −2080 | | |
| −6.26 | | | | | | | | | 33 3.58 70 | | |
| | | | | | 51 | | | | | | |
| | +32.77 | 1 11.9 | 20.4 | 32.3 | 1 16.15 | 31 | 32.20 | 50 | 53 33 2.71 | | |
| | 1.51550 | 1.51550 | | | | 53 33 | 37.90 | | 11.95 | | +12.12 |
| d | 9.90555 | 9.77370 | | | | | − 35.16 | | − 28 | | 38 |
| | 0.54600n | 1.41415n | | | | | − 25.95 | | − 18 | | |
| | ((δ) − D) $\frac{d'}{100}$ | | | | | | | | +12.08 | | |
| | | | | | | | | | + 50 | | |
| −4.79 | $\delta_2$ | 47 16.27 | | 32 57.3 | | | | | −2080 | | |
| −6.26 | | | | | | | | | 33 3.27 53 | | |
| | | | | | 51 | | | | | | |
| | +29.49 | 1 13.0 | 22.2 | 35.2 | 1 17.60 | 31 | 30.75 | 50 | 53 33 4.85 | | |
| | 1.46970 | 1.46970 | | | | 53 33 | 35.55 | | 13.14 | | +11.99 |
| d | 9.90555 | 9.77370 | | | | | 36.49 | | − 23 | | 80 |
| | 1.50020n | 1.36835n | | | | | − 31.62 | | − 20 | | |
| | ((δ) − D) $\frac{d'}{100}$ | | | | | | − 23.35 23.35 | | +11.92 | | |
| | | | | | | | − 19.76 | | + 50 | | |
| −4.79 | $\delta_1$ | 47 16.37 | | 32 57.9 | | | | | − 2080 | | |
| −6.26 | | | | | | | | | 33 4.35 14 | | |
| | | | | | 6 | | | | | | |
| | +24.25 | 1 19.1 | 28.0 | 47.1 | 1 23.55 | 16 | 24.80 | 5 | 52 18 6.15 | | |
| | 1.38470 | 1.38470 | | | | 52 18 | 31.50 | | 11.74 | | +10.78 |
| d | 9.89840 | 9.78625 | | | | | − 25.35 | | − 16 | | 55 |
| | 1.40405n | 1.29590n | | | | | − 19.76 | | − 20 | | |
| | ((δ) − D) $\frac{d'}{100}$ | | | | | | | | +10.69 | | |
| | | | | | | | | | + 45 | | |
| −4.72 | $\delta_2$ | 1 49 25.45 | | 17 55.6 | | | | | −2040 | | |
| −6.08 | | | | | | | | | 18 1.89 66 | | |

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Date$_1$ = 1876, Feb. 20 / Feb. 21 — Observer W.A.R. / Recorder J.T.M. — Date$_2$ = 1876, Feb. 22 — Observer / Recorder

| Febr. | Star. | α | δ | Mag. | $T_s$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 49 | 11 | 52 16 | 8.3 | 4 48 15.6 | 48 32.6 | 57.1 | 0.5 | 2.8 | 7.3 | 49 | 0.46 | | |
| | 47 | 57.8 | 14.3 | 8.0 | 18.2 | | | | | + 30.69 | | +30.83 | | |
| | κ | | | | 20.4 | | | | | | | − 14 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | 18.07 | | | | | | 49 | 31.15 | | |
| | $c_1$ | | | | | | | | | | | − .90 | | |
| | | | | | | | | | | | | 30.25 | | |
| 22 | | | | 8.4 | 48 25.0 | 48 33.9 | 36.5 | 39.8 | 3.1 | 6.4 | 48 | 59.76 | | |
| | | | | | 28.6 | | | | | + 31.39 | | +31.38 | | |
| | κ | | | | 31.8 | | | | | | | + 1 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | 28.63 | | | | | | 49 | 31.15 | | |
| | $a_2$ | | | | | | | | | | | − .87 | | |
| | | | | | | | | | | | | 30.28 | | |
| 20 | 53 | 18 | 54 34 | 8.5 | 52 56.1 | 53 4.6 | 8.0 | 11.6 | 14.9 | 18.6 | 53 | 11.54 | | |
| | 57 | 58.2 | 32.4 | 9.2 | 59.3 | | | | | + 30.19 | | +30.36 | | |
| | κ | | | | 2.3 | | | | | | | − 17 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | 59.23 | | | | | | 53 | 41.73 | | |
| | $a_1$ | | | | | | | | | | | − 1.04 | | |
| | | | | | | | | | | | | 40.69 | | |
| 21 | | | | 9.1 | 53.2 34.5 | 53 4.4 | 7.5 | 11.2 | 14.8 | 18.3 | 53 | 11.24 | | |
| | | | | | 37.6 | | | | | + 30.67 | | +30.83 | | |
| | κ | | | | 40.1 | | | | | | | − 1.86 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | 37.40 | | | | | | 53 | 41.91 | | |
| | $a_2$ | | | | | | | | | | | − 1.01 | | |
| | | | | | | | | | | | | 40.90 | | |
| 22 | | | | 9.6 | 53 9.6 | 53 3.4 | 7.0 | 10.5 | 13.9 | 17.8 | 53 | 10.52 | | |
| | | | | | 9.50 | | | | | + 31.39 | | +31.38 | | |
| | κ | | | | | | | | | | | + 1 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | 53 | 41.91 | | |
| | $a_1$ | | | | | | | | | | | − 98 | | |
| | | | | | | | | | | | | 40.93 | | |
| 20 | 54 | 10 | 54 48 | 8.3 | 53 44.7 | 53 47.8 | 57.0 | 2.3 | 5.9 | 9.3 | 54 | 2.30 | | |
| | 52 | 48.7 | 46.4 | 8.4 | 47.8 | 56.3 | 58.7 | | | + 30.19 | | +30.36 | | |
| | κ | | | | 51.0 | | | | | | | − 17 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | 47.83 | | | | | | 54 | 32.49 | | |
| | $a_2$ | | | | | | | | | | | − 1.05 | | |
| | | | | | | | | | | | | 31.44 | | |
| 21 | | | | 8.7 | 53 38.6 | 53 54.8 | 58.5 | 2.0 | 5.5 | 9.0 | 54 | 1.96 | | |
| | | | | | 41.4 | | | | | + 30.67 | | +30.83 | | |
| | κ | | | | 48.8 | | | | | | | − 1.86 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | 44.93 | | | | | | 54 | 32.63 | | |
| | $a_1$ | | | | | | | | | | | − 1.02 | | |
| | | | | | | | | | | | | 31.61 | | |
| 22 | | | | 8.5 | 53 53.1 | 54 4.8 | 8.5 | 12.1 | 15.4 | 19.6 | 55 | 12.08 | | |
| | | | | | 57.8 | | | | | + 31.39 | | +31.38 | | |
| | κ | | | | 1.2 | | | | | | | + 1 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | 57.57 | | | | | | 55 | 43.47 | | |
| | $a_2$ | | | | | | | | | | | − 1.01 | | |
| | | | | | | | | | | | | 42.46 | | |
| 20 | 55 | 50 | 54 57 | 8.2 | 55 0.1 | 55 84.2 | 87.9 | 41.4 | 45.0 | 48.7 | 55 | 41.44 | | |
| | 54 | 28.7 | 55.5 | 7.6 | 4.0 | | | | | + 30.19 | | +30.36 | | |
| | κ | | | | 6.4 | | | | | | | − 17 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | 3.50 | | | | | | 56 | 11.63 | | |
| | $a_1$ | | | | | | | | | | | − 1.08 | | |
| | | | | | | | | | | | | 10.55 | | |
| 21 | | | | 9.0 | 55 11.9 | 55 33.9 | 37.5 | 40.9 | 44.5 | 48.4 | 55 | 41.04 | | |
| | | | | | 13.2 | | | | | + 30.67 | | +30.83 | | |
| | κ | | | | 17.3 | | | | | | | − 16 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | 14.80 | | | | | | 56 | 11.71 | | |
| | $a_2$ | | | | | | | | | | | − 1.05 | | |
| | | | | | | | | | | | | 10.66 | | |

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Runs

| | $T_m - T_S$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +42.39 | 1 5.8 | 13.1 | 18.9 | 6 9.45 | 16′ | 38.90 | | 5 | 52° 17′ 56.86 | |
| d | 1.62730 | 1.62730 | | | | 52 18 | 44.60 | | | 18 0.05 | +10.51 |
| | 9.89840 | 9.78625 | | | | | −11.74 | | | − 48 | 77 |
| | 1.65065 | 1.53850 n | | | | | −34.55 | | | − 15 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +1069 | |
| | | | | | | | | | | + 45 | |
| −4.72 $\delta_1$ | | 49 25.53 | | 17 54.3 | | | | | | −2040 | |
| −6.08 | | | | | | | | | | 18 0.42 | |
| | +31.13 | 1 12.7 | 21.9 | 34.6 | 6 1 17.30 | 16 | 31.05 | | 5 | 52 18 3.94 | |
| d | 1.49320 | 1.49320 | | | | 52 18 | 36.79 | | | 11.42 | +10.55 |
| | 9.89840 | 9.78625 | | | | | −32.85 | | | − 25 | 36 |
| | 1.51655 | 1.40440 n | | | | | −25.37 | | | − 20 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +10.55 | |
| | | | | | | | | | | + 45 | |
| −4.72 $\delta_2$ | | 49 25.56 | | 17 55.3 | | | | | | −2040 | |
| −6.08 | | | | | 50 | | | | | 18 1.38 | |
| | +12.31 | 0 7.2 | 15.9 | 23.1 | 0 11.55 | 54 32 | 36.80 | | 50 | 54 34 30.12 | |
| d | 1.09030 | 1.09030 | | | | 34 | 43.50 | | | 33.99 | +13.70 |
| | 9.91114 | 9.76307 | | | | | −13.38 | | | − 4 | 47 |
| | 1.12639 n | 0.97832 n | | | | | − 9.51 | | | − 3 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +13.22 | |
| | | | | | | | | | | + 53 | |
| −4.85 | | | | | | | | | | −2100 | |
| −5.73 $\delta_1$ | | 53 35.84 | | 34 20.5 | | | | | | 34 26.45 | 26.23 |
| | +33.84 | 4 49.8 | 57.6 | 107.4 | 49 4 53.70 | 32 | 54.60 | 5 | 45 | 54 34 23.53 | |
| d | 1.52940 | 1.52940 | | | | 54 35 | 0.30 | 5 | | 34.15 | +12.79 |
| | 9.91114 | 9.76307 | | | | | −36.77 | | | − 29 | 13.05 |
| | 1.56549 n | 1.41742 n | | | | | −26.15 | | | − 69 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +1322 | |
| | | | | | | | | | | + 53 | |
| −4.85 | | | | | | | | | | −2100 | |
| −5.73 $\delta_2$ | | 53 36.00 | 5 | 34 20.5 | 50 | | | | | 34 26.20 | 5 573 20 52 |
| | +1.02 | 0 16.2 | 25.5 | 41.7 | 0 20.85 | 32 | 27.50 | | 50 | 54 34 22.16 | |
| d | 0.00860 | 0.00860 | | | | 54 34 | 33.24 | | | 32.45 | +13.56 |
| | 9.91114 | 9.76307 | | | | | −11.08 | | | − 0 | 37 |
| | 0.04469 n | 9.89662 n | | | | | − 0.79 | | | − 5 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +13.06 | |
| | | | | | | | | | | + 53 | |
| −4.85 | | | | | | | | | | −2100 | |
| −5.73 $\delta_1$ | | 53 36.08 | | 34 19.1 | | | | | | 34 24.82 | |
| | +14.47 | 0 55.2 | 3.0 | 11.82 | 35 0 59.10 | 46 | 49.25 | | 35 | 54 48 40.18 | |
| d | 1.16050 | 1.16050 | | | | 54 48 | 55.95 | | | 44.83 | +13.74 |
| | 9.91239 | 9.76057 | | | | | −15.77 | | | − 5 | 84 |
| | 1.19784 n | 1.04602 n | | | | | −11.12 | | | − 14 | 13.61 |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +13.48 | |
| | | | | | | | | | | + 53 | |
| −4.89 | | | | | | | | | | −2100 | |
| −5.67 $\delta_2$ | | 54 26.55 | | 48 31.5 | | | | | | 48 37.44 | 37.21 |
| | +2.03 | 0 51.5 | 59.9 | 11.4 | 35 0 55.70 | 46 | 52.65 | | 35 | 54 48 36.52 | |
| d | 1.30170 | 1.30170 | | | | 54 48 | 58.35 | | | 42.06 | +13.80 |
| | 9.91239 | 9.76057 | | | | | −21.83 | | | − 11 | 1406 |
| | 1.33904 n | 1.18722 n | | | | | −15.39 | | | − 13 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +13.49 | |
| | | | | | | | | | | + 53 | |
| −4.89 $\delta_1$ | | | | | | | | | | −21.00 | |
| −5.67 | | 54 26.72 | | 48 30.4 | | | | | | 48 36.02 | |
| | +14.57 | 1 17.6 | 25.9 | 43.5 | 36 1 21.75 | 46 | 26.60 | | 35 | 54 48 16.53 | |
| d | 1.16170 | 1.16170 | | | | 54 48 | 32.34 | | | 21.19 | +13.59 |
| | 9.91239 | 9.76057 | | | | | −15.81 | | | − 6 | 40 |
| | 1.19904 n | 1.04722 n | | | | | −11.15 | | | − 20 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +13.30 | |
| | | | | | | | | | | + 53 | |
| $\delta_2$ | | | | | | | | | | −21.00 | |
| | | | | | | | | | | 48 13.59 | |
| | +37.94 | 2 25.5 | 33.3 | 58.8 | 27 2 29.40 | 55 | 18.95 | | 25 | 54 56 44.21 | |
| d | 1.54910 | 1.57910 | | | | 54 57 | 25.65 | | | 56.60 | +13.51 |
| | 9.91310 | 9.75913 | | | | | −11.41 | | | − 37 | 28 |
| | 1.61715 n | 1.46318 n | | | | | −29.05 | | | − 35 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +13.63 | |
| | | | | | | | | | | + 60 | |
| −4.90 $\delta_1$ | | | | | | | | | | −21.10 | |
| −5.51 | | 56 5.65 | | 56 43.0 | | | | | | 56 48.78 | 48.55 |
| | +26.24 | 2 34.9 | 42.9 | 77.8 | 27 2 38.90 | 55 | 9.45 | | 25 | 54 56 46.50 | |
| d | 1.41900 | 1.41900 | | | | 54 57 | 15.15 | | | 55.06 | +13.70 |
| | 9.91310 | 9.75913 | | | | | −25.65 | | | − 18 | 96 |
| | 1.45705 n | 1.30308 n | | | | | −20.09 | | | − 36 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +13.64 | |
| | | | | | | | | | | + 60 | |
| −4.90 $\delta_2$ | | | | | | | | | | −21.10 | |
| −5.51 | | 56 5.76 | | 56 42.4 | | | | | | 56 47.92 | |

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458 460 20

Date$_1$ = 1876, Feb. 20 / Feb. 21 — Observer / Recorder

Date$_2$ = 1876, Feb. 22 — 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Feb 22 | | | | | | | | | | | | | |
| 55 | 55 50 / 54 28.7 | 54 57 / 53.5 | 9.2 / 7.5 | 4 54 5·80 2.1 3.3 1.80 | 55 23.0 | 36.8 | 39.8 | 43.9 | 47.8 / + 31.39 | 55 | 4014 +30.36 +31.38 1 | | |
| κ | | | | | | | | | | 56 | 10.51 − 1.02 10.51 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $a_1$ | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |
| 56 | 56 54 / 55 40.1 | 51 32 / 30.1 | 8.2 / 8.5 | 5·6 18.8 21.6 24.3 21.57 | 56 43.0 | 46.1 | 49.4 | 52.8 | 56.1 / + 30.22 | 58 | 4948 +30.37 − 15 | | |
| κ | | | | | | | | | | 57 | 19.70 − 1.04 18.866 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $a_2$ | | | | | | | | | | | | | |
| 21 | | | 8.5 | 5·6 20.9 24.6 27.2 24.23 | 5·6 42.6 | 45·9 | 49.2 | 52.6 | 56.0 / + 30.69 | 56 | 4926 +30.83 − 14 | | |
| κ | | | | | | | | | | 57 | 19.95 − 1.02 18.93 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $a_1$ | | | | | | | | | | | | | |
| 22 | | | 8.4 | 5·6 23.6 27.1 29.7 26.80 | 5·6 41.7 | 45·1 | 48.5 | 51.7 | 55·0 / + 31.39 | 58 | 4840 +31.38 + 1 | | |
| κ | | | | | | | | | | 57 | 19.79 − 99 18.80 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $a_2$ | | | | | | | | | | | | | |
| Feb 20 | | | | | | | | | | | | | |
| 4 | 5.2 1 / 5.0 41.4 | 54 12 / 9.9 | 8.3 / 8.8 | 5·2 1.2 4.7 9.2 5.03 | 5·1 46.8 | 50.3 | 53.6 | 57.1 | 0.6 / + 30.20 | 51 | 53.68 +30.37 − 17 | | |
| κ | | | | | | | | | | 52 | 23.88 − 1.02 52 22.86 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $a_1$ | | | | | | | | | | | | | |
| 21 | | | 8.8 | 5·1 40.5 43.8 46.4 43.63 | 5·1 46.1 | 5— | 53.2 53.2 | — | 0.3 / + 30.67 | 51 | 53.20 +30.83 − 16 | | |
| κ | | | | | | | | | | 52 | 23.87 − 1.99 52 22.88 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $a_2$ | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |
| 5 | 13 39 / 12 18.0 / 11 35.1 | 53 57 / 56.3 / 50.6 | 9.2 / 9.3 | 12 39.3 41.3 40.30. | 12 42.9 | 46.3 | 49.9 | 53.4 | 5·6.7 / + 30.20 | 12 | 49.84 +30.37 − 17 | | |
| κ | | | | | | | | | | 13 | 20.04 − 1.28 18.76 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $a_1$ | | | | | | | | | | | | | |
| 21 | | | 8.9 | 12 22.6 25.4 29.0 25.87 | 12 42.4 | 45.9 | 49.4 | 53.0 | 5·6.4 / + 30.69 | 12 | 4942 +30.84 − 15 | | |
| κ | | | | | | | | | | 13 | 20.11 − 1.25 18.86 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $a_2$ | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |
| 14 | 14 31 / 13 9.6 | 53 49 / 47.1 | 8.4 / 8.5 | 14 48.6 13 5·3.5 5·7.0 53.03 5470 | 14 14.4 | 17.9 | 21.5 | 24.9 | 28.3 / + 30.22 | 14 | 2140 +30.38 − 16 | | |
| κ | | | | | | | | | | 14 | 51.62 − 1.30 50.32 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $a_1$ | | | | | | | | | | | | | |
| 21 | | | 8.2 | 13 47.2 8·6.2 8·8.6 50.43 | 14 14.0 | 17.4 | 21.1 | 24.5 | 27.9 / + 30.69 | 14 | 2098 +30.84 − 15 | | |
| κ | | | | | | | | | | 14 | 51.67 − 1.16 50.51 41 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $a_2$ | | | | | | | | | | | | | |

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Runs

− 23
+ 26
− 19

| | $T_m - T_S$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +38.34 | 2 24.8 | 32.2 | ~~57.0~~ 56.8 | 27, 2′ ~~50~~ 28.4 | 55′ | 19.85 | | 25 | 54° 56′ ~~43.79~~ | |
| | 1.58360 | 1.58360 | | | | 54 57 | 25.59 | | | 56.24 | +1331 |
| d | 9.91310 | 9.75913 | | | | | − ~~41.85~~ | | | − ~~38~~ | 12 |
| | 1.62165n | 1.46768n | | | | | − 29.35 | | | + 13.47 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 60 | |
| −4.90 $\delta_1$ | | 56 5.61 | | 56 42.8 | 52 | | | | | − 21.10 | →56 48.26 |
| −5.51 | | | | | | | | | | − 0.23 | |
| | +27.91 | 2 12.6 | 22.9 | 35.5 | 2 17.75 | 30 | 30.60 | | 50 | 51 32 ~~8.45~~ | |
| | 1.44580 | 1.44580 | | | | 54′ 32 | 37.30 | | | 14.16 | +9.787 |
| d | 9.89385 | 9.79367 | | | | | − ~~29.15~~ | | | − 21 | 54 |
| | 1.46460n | 1.36442n | | | | | − 23.14 | | | − 32 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 9.85 | |
| −4.69 $\delta_2$ | | 57 13.97 | | 31 58.0 | 52 | | | | | + 45 | |
| −5.43 | | | | | | | | | | − 2000 | |
| | | | | | | | | | | 32 ~~57.76~~ | 3.47 |
| | +25.03 | 2 15.2 | 24.8 | 40.0 | 2 20.00 | 30 | 28.35 | | 50 | ~~51~~ 32 ~~7.91~~ | |
| | 1.39850 | 1.39850 | | | | 51 32 | 34.05 | | | 13.29 | +9.81 |
| d | 9.89385 | 9.79367 | | | | | − ~~26.14~~ | | | − 17 | 10.07 |
| | 1.41730n | 1.31712n | | | | | − 20.76 | | | − 32 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 9.85 | |
| −4.69 $\delta_1$ | | 57 14.24 | | 31 57.8 | 52 | | | | | + 45 | |
| −5.43 | | | | | | | | | | − 20.10 | |
| | | | | | | | | | | 32 3.26 | |
| | +21.60 | 2 17.1 | 27.5 | 44.6 | 2 22.30 | 30 | 26.05 | | 50 | ~~57~~ 32 ~~9.24~~ | |
| | 1.33440 | 1.33440 | | | | 51 32 | 31.79 | | | 13.88 | +9.78 |
| d | 9.89385 | 9.79367 | | | | | − ~~22.55~~ | | | − 13 | ~~168~~ |
| | 1.35320n | 1.25302n | | | | | − 17.91 | | | − 36 | 9.49 |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 9.72 | |
| −4.69 $\delta_2$ | | 57 14.11 | | 31 57.8 | 13 46 | | | | | + 45 | |
| −5.43 | | | | | | | | | | − 20.10 | |
| | | | | | | | | | | 32 3.27 | |
| | − 11.3 | 3 33.9 | 41.5 | 25.4 | 3 37.70 | 9 | ~~10.85~~ 11.11 | | 10 | 54 11 26.17 | 40 |
| | 1.05308n | | | | | 54 11 | 17.35 58 | | | − 4 | +12.74 |
| d | 9.76730 | ~~9.76730~~ | | | | | − ~~10~~ | | | − 50 | 51 |
| | 0.94533 | | | | | | + 8.82 | | | + 1278 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 50 | |
| −4.84 $\delta_1$ | | 52 18.02 | | 11 12.2 | 13 | ×26 | | | | − 2090 | |
| −5.84 | | | | | | | | | | 11 18.01 | |
| | + 9.6 | 3 16.1 | 24.6 | 40.7 | 3 20.35 | 9 | 28.00 | | 10 | ~~54~~ 11 ~~26.21~~ | |
| | 0.98227 | | | | | 54 11 | 33.70 | | | − 3 | +12.81 |
| d | 9.76712 | ~~9.76712~~ | | | | | − t 7.49 | | | − 46 | 13.07 |
| | 0.87434n | | | | | | | | | + 12.80 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 50 | |
| −4.84 $\delta_2$ | | 52 18.04 | | 11 12.3 | 13 | | | | | − 20.90 | |
| −5.84 | | | | | | | | | | 11 18.12 | |
| | +9.54 | 2 23.9 | 30.9 | 54.8 | 2 27.40 | 50 | 20.95 | | 30 | 53 52 ~~17.38~~ | |
| | 0.97950 | 0.97950 | | | | 53 52 | 27.65 | | | 20.14 | +12.56 |
| d | 9.90722 | 9.77061 | | | | | − ~~40.27~~ | | | − ~~2~~ | 33 |
| | 1.01167n | 0.87506n | | | | | − 7.51 | | | − 35 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 12.43 | |
| −4.87 $\delta_1$ | | 13 13.89 | | 52 7.8 | 32 | | | | | + 50 | |
| −4.00 | | | | | | | | | | − 20.40 | |
| | | | | | | | | | | 52 ~~12.04~~ | 1184 |
| | +23.75 | 2 10.0 | 18.5 | 8.5 | 2 14.25 | 50 | 34.10 | | 3.0 | 53 52 ~~14.22~~ | |
| | 1.37570 | 1.37570 | | | | 53 52 | 39.80 | | | 21.13 | +12.47 |
| d | 9.90731 | 9.77043 | | | | | − ~~25.58~~ | | | − 15 | 73 |
| | 1.40796n | 1.27108n | | | | | − 18.67 | | | − 31 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 12.43 | |
| −4.87 $\delta_2$ | | 13 13.99 | | 52 9.5 | 32 | | | | | + 50 | |
| −4.00 | | | | | | | | | | − 2040 | |
| | | | | | | | | | | 52 13.40 | |
| | +28.37 | 0 14.1 | 22.5 | 36.6 | 0 18.30 | 47 | 30.05 | | 35 | 53 49 ~~6.27~~ | |
| | 1.45190 | 1.45290 | | | | 53 49 | 36.75 | | | 14.42 | +12.63 |
| d | 9.90704 | 9.77095 | | | | | − ~~30.54~~ | | | − 21 | 40 |
| | 1.48489n | 1.34880n | | | | | − 22.33 | | | − 4 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 12.38 | |
| −4.86 $\delta_1$ | | 14 45.46 | | 49 2.4 | 35 | | | | | + 50 | |
| −3.93 | | | | | | | | | | − 2030 | |
| | | | | | | | | | | 49 ~~6.52~~ | 6.29 |
| | +30.45 | 0 12.0 | 20.0 | 32.0 | 0 16.00 | 47 | 32.35 | | 35 | 53 49 ~~5.47~~ | |
| | 1.48500 | 1.48500 | | | | 53 49 | 38.05 | | | 14.01 | +12.60 |
| d | 9.90704 | 9.77095 | | | | | − ~~32.88~~ | | | − 24 | 86 |
| | 1.51699n | 1.38090n | | | | | − 24.04 | | | − 4 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 12.38 | |
| −4.86 $\delta_2$ | | 14 45.55 | | 49 2.5 | | | | | | + 50 | |
| −3.93 | | | | | | | | | | − 2040 | |
| | | | | | | | | | | 49 6.47 | |

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458

Date$_1$ = 1876, Feb. 20 — Observer — Recorder

459

Date$_2$ = 1876, Feb. 21 — Observer — Recorder

22

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 15 20 | 53 11 | 9.1 | 5- 14 50.6 | 15- 5.2 | 8.5- | 12.1 | 15.5- | 18.8 | 15 | m s 12.02 | | |
| | 18 59.1 | 8.8 | 9.0 | 57.2 | | | | | + 30.22 | | + 30.38 | | |
| | κ | | | 5.68 | | | | | | | − 16 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 53.87 | | | | | | 15 | 42.24 | | |
| | $a_1$ | | | | | | | | | | −1.30 | | |
| | | | | | | | | | | | 40.94 | | |
| | κ | | 9.0 | 14. 53.9 | 15- 45. | 8.2 | 11.4 | 15.0 | 18.6 | 16 | 11.54 | | |
| | | | | 57.9 | | | | | + 30.69 | | + 30.84 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 1.0 | | | | | | | − 15 | | |
| | $a_2$ | | | 57.60 | | | | | | 15 | 42.23 | | |
| | | | | | | | | | | | −1.27 | | |
| Feb. 21 | | | | | | | | | | | 40.96 | | |
| 4 | 40 16 | 54 23 | 9.2 | 4 39 37.7 | 40. 16 | 5.2 | 8.9 | 12.7 | 16.2 | 40 | 8.98 | | |
| | 38 57.2 | 21.1 | 9.0 | 0.6 | | | | | + 30.67 | | + 30.83 | | |
| | κ | | | 3.7 | | | | | | | − 1.76 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 0.67 | | | | | | 40 | 39.59 | | |
| | $a_1$ | | | | | | | | | | − .84 | | |
| | | | | | | | | | | | 38.75 | | |
| 22 | | | 9.2 | 39 38.1 | 40 1.4 | 6.0 | 8.4 | 11.9 | 15.3 | 40 | 8.40 | | |
| | κ | | | 0.6 | | | | | + 31.39 | | + 31.38 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 3.8 | | | | | | | + 1 | | |
| | $a_2$ | | | 0.83 | | | | | | 40 | 39.79 | | |
| 21 | | | | | | | | | | | − .81 | | |
| | | | | | | | | | | | 38.98 | | |
| 4 | 42 13 | 49 56 | 9.2 | 41 40.8 | 42 7.0 | 4.0 | 7.1 | 10.2 | 13.6 | 42 | 7.18 | | |
| | 40 59.4 | 44.4 | 8.7 | 43.0 | | | | | + 30.70 | | +30.83 | | |
| | κ | | | 45.7 | | | | | | | − 13 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 43.17 | | | | | | 42 | 37.88 | | |
| | $a_1$ | | | | | | | | | | − .83 | | |
| | | | | | | | | | | | 37.05 | | |
| 22 | | | 9.2 | 41 39.5 | 41 39.9 | 3.2 | 6.4 | 9.6 | 12.9 | 42 | 6.40 | | |
| | κ | | | 39.50 | | | | | + 31.39 | | +31.38 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | + 1 | | |
| | $a_2$ | | | | | | | | | 42 | 37.79 | | |
| | | | | | | | | | | | − .80 | | |
| | | | | | | | | | | | 36.99 | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_1$ | | | | | | | | | | | | |
| Feb. 20 | | | | | | | | | | | | | |
| 5 | 21 48 | 52 13 | 9.0 | 5- 21 14.1 | 21 32.6 | 26.0 | 39.3 | 42.7 | 46.0 | 21 | 39.32 | | |
| | 20 27.7 | 11.4 | 9.0 | 18.4 | | | | | + 30.23 | | +30.38 | | |
| | κ | | | 21.8 | | | | | | | − 13 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 18.10 | | | | | | 22 | 9.55 | | |
| | $a_2$ | | | | | | | | | | −1.37 | | |
| Feb. 21 | | | | | | | | | | | 8.18 | | |
| 5 | 1 38 | 53 17 | 7.8 | 5- 1 27.4 | 1 21.2 | 24.6 | 27.9 | 31.6 | 34.9 | 1 | 28.04 | | |
| | 0 18.0 | 16.6 | 7.5- | 30.4 | | | | | + 30.68 | | + 30.83 | | |
| | κ | | | 34.0 | | | | | | | − 15 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 30.60 | | | | | | 1 | 58.72 | | |
| | $a_1$ | | | | | | | | | | −1.10 | | |
| Feb. 21 | | | | | | | | | | | 57.62 | | |
| 5 | 4 29 | 53 4 | 7.0 | 4 2.2 | 4 11.1 | 14.5 | 18.0 | 21.3 | 25.0 | 4 | 17.98 | | |
| | 3 8.4 | 1.6 | 6.5 | 8.1 | | | | | + 30.68 | | + 30.83 | | |
| | κ | | | 9.0 | | | | | | | − 15 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 5.43 | | | | | | 4 | 48.66 | | |
| | $a_2$ | | | | | | | | | | −1.14 | | |
| Feb. 22 | | | | | | | | | | | 47.52 | 0 9.33 | |
| 4 | 59 48 | 53 33 | 8.0 | | | | | | | | 94 | − 1.06 | |
| | 58 28.1 | 31.0 | 8.1 | 4 39 45.4 | 39.9 30.8 | 34.4 | 38.0 | 41.8 | 45.0 | 39 | 57.54 | 8.27 | |
| | | | | 45.40 | | | | | + 31.39 | | + 31.88 | 0 −.06 | |
| | | | | | | | | | | | | 9.33 | |

## Single Observations

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Runs

| | $T_m - T_S$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +18.15 | 4 9.1 | 17.7 | 268. | 141 / 4 / 13.40 | 8′ | 31.95 | | 10 | 53° 10′ 22.27 | |
| d | 1.25890 | 1.25890 | | | | 53 10 | 41.65 | | | 27.15 | +11.49 |
| | 9.90339 | 9.77761 | | | | | −19.38 | | | − 8 | 26 |
| | 1.28724 | 1.16146 | | | | | −14.50 | | | − 59 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +11.66 | |
| | | | | | | | | | | + 50 | |
| −4.82 | | | | | | | | | | −20.10 | |
| −3.86 $\delta_1$ | | 15 36.12 | | 10 14.2 | 1″ | | | | | 10 18.37 | 18.08 |
| | +13.94 | 4 12.4 | 21.2 | 33.6 | 14 / 4 / 16.80 | 8 | 31.55 | | 10 | 53 10 ~~23.37~~ | |
| d | 1.14430 | 1.14430 | | | | 53 10 | ~~38.25~~ | | | ~~27.11~~ | +11.51 |
| | 9.90339 | 9.77761 | | | | | ~~−11.88~~ | | | − 5 | 77 |
| | 1.17264 | 1.04686 | | | | | − 11.14 | | | − 60 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +11.66 | |
| | | | | | | | | | | + 50 | |
| −4.82 | | | | | | | | | | −20.30 | |
| −3.86 $\delta_2$ | | 15 36.14 | | 10 14.7 | | | | | | 10 18.58 | |
| | +8.25 | 0 18.9 | 27.4 | 46.3 | 0 / 2315 | 22 | 26.20 | | 0 | 54 24 21.96 | |
| d | 0.91640 | 0.91640 | | | | 54 24 | 30.90 | | | ~~24.50~~ | +13.50 |
| | 9.91023 | 9.76484 | | | | | ~~−5.97~~ | | | − 2 | 76 |
| | 0.95158 | 0.80619 | | | | | − 6.40 | | | − 6 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +13.03 | |
| | | | | | | | | | | + 55 | |
| −4.83 | | | | | | | | | | −21.20 | |
| −6.81 $\delta_1$ | | 40 33.92 | | 24 10.2 | | | | | | 24 17.06 | |
| | +7.57 | 0 16.5 | 25.2 | 41.7 | 0 / 2085 | 22 | 27.50 | | 0 | 54 24 ~~25.03~~ | |
| d | 0.87910 | 0.87910 | | | | 54 24 | 33.24 | | | ~~27.37~~ | +13.32 |
| | 9.91023 | 9.76484 | | | | | ~~−5.27~~ | | | − 12 | 13 |
| | 0.91428 | ~~0.67884~~ | | | | | − 5.87 | | | − 5 | |
| ((δ) − D) $\frac{d'}{100}$ | | 0.76889 | | | | | | | | + 1284 | |
| | | | | | | | | | | + 55 | |
| −4.83 | | | | | | | | | | −21.10 | |
| −6.81 $\delta_2$ | | 40 34.15 | | 24 12.6 | 27 | | | | | 24 19.40 | |
| | +24.01 | 2 2.3 | 11.9 | 14.2 | 2 / 7.10 | 55 | 41.25 | | 25 | 49 57 ~~22.47~~ | |
| d | 1.38021 | 1.38021 | | | | 49 57 | 46.95 | | | +26.37 | + ~~2.94~~ |
| | 9.88404 | 9.80837 | | | | | ~~+.02~~ | | | − 15 | 30 |
| | ~~0.00899~~ | 1.31358 | | | | | ~~24.57~~ | | | − 29 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.38939 | | | | | | − 20.68 | | | + 813 | |
| | | | | | | | | | | + 35 | |
| −4.57 | | | | | | | | | | −19.80 | |
| −6.65 $\delta_1$ | | 42 32.48 | | 57 8.2 | 27 | | | | | 57 14.87 | |
| | +26.90 | 1 56.1 | 5.9 | 122.0 | 2 / 1.00 | 55 | 47.35 | | 25 | 49 57 ~~25.63~~ | |
| d | 1.42970 | 1.42970 | | | | 49 57 | 53.09 | | | 30.02 | + ~~7.88~~ |
| | 9.88404 | 9.80837 | | | | | ~~−27.46~~ | | | − 20 | 69 |
| | ~~0.00899~~ | 1.36302 | | | | | −23.07 | | | − 30 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.43869 | | | | | | | | | + 8.03 | |
| | | | | | | | | | | + 35 | |
| −4.57 | | | | | | | | | | −19.80 | |
| −6.65 $\delta_2$ | | 42 32.42 | | 57 11.3 | | | | | | 57 17.91 | |
| d | | | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | 10 | | | | | | |
| | | | | | | | | | | − 0.23 | |
| | (+21.22) | 0 41.8 | 50.9 | 92.7 | 0 / 4635 | ~~22~~ 12 | 2.00 | | 10 | 52 ~~23~~ ~~46.29~~ | |
| d | 1.32670 | 1.32670 | | | | 52 ~~24~~ | 8.70 | | | 13 51.44 | +11.02 |
| | 9.89888 | 9.78543 | | | | 14 | ~~−22.41~~ | | | − 12 | 10.79 |
| | 1.35063 | 1.23708 | | | | | −17.26 | | | − 11 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +10.80 | |
| | | | | | | | | | | + 45 | |
| −4.77 | | | | | | | | | | −1960 | |
| −3.30 $\delta_2$ | | 22 3.41 | | 13 39.1 | 7 | | | | | 13 ~~33~~ ~~42.66~~ 42.40 | |
| | −2.56 | 2 7.1 | 15.7 | 22.8 | 2 / 1140 | 15 | 36.95 | | 5 | 53 ~~16~~ ~~40.02~~ 44.69 | |
| d | 0.40820 | 0.40820 | | | | 53 17 | 42.65 | | | 17 ~~3.05~~ | +11.99 |
| | 9.90405 | 9.77643 | | | | | ~~+2.37~~ | | | − 0 | 12.25 |
| | 0.43720 | 0.30958 | | | | | ~~+20.40~~ | | | − 31 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | + 2.04 | | | +1180 | |
| | | | | | | | | | | + 50 | |
| −4.81 | | | | | | | | | | −20.50 | |
| −5.03 $\delta_1$ | | 1 52.81 | | 17 31.4 | 20 | | | | | 17 ~~34.80~~ 36.44 | |
| | +12.55 | 0 42.0 | 49.9 | 11.9 | 0 / 4575 | 2 | 2.40 | | 20 | 53 3 ~~79.02~~ | 58.05 32 55.75 |
| d | 1.09864 | 1.09864 | | | | 53 4 | 8.10 | | | ~~58.25~~ | − 5 +11.89 − 2 +12.08 |
| | 9.90273 | 9.77879 | | | | | ~~−10.66~~ | | | − 10 | 12.15 − ~~29~~ 31 1.89 |
| | ~~0.02405~~ | 1.00238 | | | | | ~~−13.35~~ | | | | +11.54 +11.92 |
| ((δ) − D) $\frac{d'}{100}$ | ~~0.14085~~ | | | | | | −10.05 | | | | + 50 + 50 |
| | 1.12632 | 0 3.44 | | 3 45.0 | | | | | | | −20.40 −20.60 |
| | | | | | 52 | | | | | 3 49.80 | 32 47.04 |
| −4.82 | −7.46 | 2 0.4 | 8.1 | 8.5 | 2 / 4225 | 30 | 44.10 | | 50 | 53 32 ~~57.87~~ | |
| −5.18 | 0.87270 | 0.87270 | | | | | ~~−4.51~~ | | | | |
| | 9.90546 | 9.77387 | | 3241.9 | | 53 32 | 49.84 | | | 55.35 | |
| 0.90311 | 0.77816 | 0.64657 | | | | | + 8.00 | | | − | |

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457

Date$_1$ = 1876, Feb. 17 n = −.03 Observer W.A.R. Recorder J.J.M.

456

Date$_2$ = 1876, Feb. 20 Observer W.A.R. Recorder J.J.M.

24

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 22 0.5 | 54 00 | 9.0 | 6 21 | 2 9.1 | 12.7 | 16.2 | 19.7 | 23.2 | 2 | 16.18 | | |
| 2 | | | 8.9 | 2.9 | | | | | + 29.73 | | + 29.77 | | |
| 1 | | | | 6.5 | | | | | | | − 4 | | |
| κ | | | | 10.7 | | | | | | 2 | 45.91 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 6.76 | | | | | | | −1.97 | | |
| $a_1$ | | | | | | | | | | | 43.94 | | |
| | | | 8.5 | 1 52.0 | 2 8.6 | 12.3 | 18.9 | 19.3 | 22.7 | 2 | 15.76 | | |
| | | | | 52.7 | | | | | + 30.23 | | + 30.40 | | |
| κ | | | | 58.7 | | | | | | | − 17 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 55.13 | | | | | | 2 | 45.99 | | |
| $a_2$ | | | | | | | | | | | −1.91 | | |
| | | | | | | | | | | | 44.08 | | |
| 3 | 20 | 54 9 | 8.6 | 2 52.5 | 3 8.2 | 11.8 | 15.1 | 18.6 | 22.2 | 3 | 15.18 | | |
| 1 | 58.4 | 8.9 | 9.0 | 53.6 | | | | | + 29.73 | | + 29.77 | | |
| κ | | | | 56.4 | | | | | | | − 4 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 53.50 | | | | | | 3 | 44.91 | | |
| $a_1$ | | | | | | | | | | | −1.99 | | |
| | | | | | | | | | | | 42.92 | | |
| | | | 8.6 | 2 51.5 | 3 7.6 | 11.1 | 14.6 | 18.2 | 21.7 | 3 | 14.84 | | |
| | | | | 50.2 | | | | | + 30.24 | | + 30.41 | | |
| κ | | | | 58.0 | | | | | | | − 17 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 54.90 | | | | | | 3 | 44.88 | | |
| $a_2$ | | | | | | | | | | | −1.92 | | |
| | | | | | | | | | | | 42.96 | | |
| 5 | 54 32.5 | 53 50 | 9.0 | 5 10.4 | 5 41.1 | 44.6 | 47.8 | 51.3 | 55.0 | 5 | 47.96 | | |
| 4 | | 50.2 | 9.3 | 13.8 | | | | | + 29.73 | | + 29.77 | | |
| κ | | | | 16.5 | | | | | | | − 4 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 13.57 | | | | | | 6 | 17.69 | | |
| $a_1$ | | | | | | | | | | | −2.00 | | |
| | | | | | | | | | | | 15.69 | | |
| | | | 9.0 | 5 14.0 | 5 40.3 | 44.0 | 47.4 | 50.9 | 54.8 | 5 | 47.42 | | |
| κ | | | | 17.8 | | | | | + 30.25 | | + 30.41 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 19.9 | | | | | | | − 16 | | |
| $a_2$ | | | | 17.73 | | | | | | 6 | 17.67 | | |
| | | | | | | | | | | | −1.94 | | |
| | | | | | | | | | | | 15.73 | | |
| 7 | 41 19.3 | 53 42 | 7.8 | 6 54.0 | 7 27.1 | 30.8 | 34.0 | 37.5 | 41.0 | 7 | 34.02 | | |
| 6 | | 41.8 | 7.5 | 57.2 | | | | | + 29.73 | | + 29.77 | | |
| κ | | | | 59.3 | | | | | | | − 4 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 56.83 | | | | | | 8 | 3.75 | | |
| $a_1$ | | | | | | | | | | | − 2.02 | | |
| | | | | | | | | | | | 1.73 | | |
| | | | 7.5 | 6 56.9 | 7 26.4 | 30.0 | 33.4 | 36.8 | 40.4 | 7 | 33.40 | | |
| | | | | 0.2 | | | | | + 30.25 | | + 30.41 | | |
| κ | | | | 2.3 | | | | | | | − 16 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 59.80 | | | | | | 8 | 3.65 | | |
| $a_2$ | | | | | | | | | | | −1.96 | | |
| | | | | | | | | | | | 1.69 | | |
| 11 | 23 1.2 | 53 31 | 5.8 | 10 40.9 | 11 7.1 | 10.6 | 14.0 | 17.4 | 20.9 | 11 | 14.22 | | |
| 10 | | 30.6 | 5.8 | 43.6 | | | | | + 29.73 | | + 29.77 | | |
| κ | | | | 46.0 | | | | | | | − 4 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 43.52 | | | | | | 11 | 43.73 | | |
| $a_1$ | | | | | | | | | | | − 2.05 | | |
| | | | | | | | | | | | 41.68 | | |
| | | | 6.4 | 10 34.6 | 11 6.3 | 9.9 | 13.2 | 16.7 | 20.3 | 11 | 13.28 | | |
| | | | | 38.2 | | | | | + 30.25 | | + 30.41 | | |
| κ | | | | 40.2 | | | | | | | − 16 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 37.60 | | | | | | 11 | 43.53 | | |
| $a_2$ | | | | | | | | | | | −1.98 | | |
| | | | | | | | | | | | 41.55 | | |

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Runs

Feb 17 + 2 ′ ″ 5.72 −.″12 −.″21 ✓
20 + 2 6, 40 47 −.14 −.23

− .21
− .23

25

| | $T_m - T_S$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | +z 0.65 | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +9.48 | 4 35.6 | 43.0 | 78.6 | 24, 4 39.30 | 58′ | 9.05 | | 20 | 54 ° 00 ′ 3.30 | |
| | 0.97681 | 0.97681 | | | | 54 0 | 13.62 | | | 6.14 | +12.40 |
| d | 9.90796 | 9.76922 | | | | | −10.23 | | | − 13 | 19 |
| | 1.80972n | 0.87098n | | | | | − 7.43 | | | − 56 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 12.49 | |
| −4.91 | | | | | | | | | | + 50 | |
| δ₁ +0.23 | | 2 39.03 | | 0 1, 2 | | | | | | −18.10 | |
| | | | | | 24 | | | | | 00 + 1.44 − 6.23 | 0.93 |
| | +20.63 | 4 26.9 | 33.6 | 60.5 | 4 30.25 | 58 | 18.10 | | 20 | 54 00 2.55 | |
| | 1.31450 | 1.31450 | | | | 54 0 | 24.80 | | | 8.63 | +12.37 |
| d | 9.90796 | 9.76922 | | | | | − 22.25 | | | − 11 | 14 |
| | 1.34741n | 1.20867n | | | | | − 16.17 | | | − 63 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +12.61 | |
| −4.91 | | | | | | | | | | + 50 | |
| δ₂ +0.23 | | 2 39.17 | | 0 2, 3 | | | | | | −18.50 | |
| | | | | | 16 | | | | | 53 0 59 53.87 | 2.04 |
| | +21.68 | 1 37.1 | 45.9 | 83.0 | 1 41.50 | 6 | 6.85 | | 15 | 54 7 47.90 | |
| | 1.33606 | 1.33606 | | | | 54 8 | 11.42 | | | 54.48 | +12.82 |
| d | 9.90869 | 9.76782 | | | | | − 23.43 | | | − 12 | 61 |
| | 1.36970n | 1.22883n | | | | | − 16.94 | | | − 20 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +12.64 | |
| −4.92 | | | | | | | | | | + 50 | |
| δ₁ +0.31 | | 3 38.00 | | 7 50.0 | | | | | | −18.10 | |
| | | | | | 16 | | | | | 7 49.85 | 49.64 |
| | +19.74 | 1 39.0 | 47.4 | 86.4 | 1 43.20 | 6 | 5.15 | | 15 | 54 7 50.52 | |
| | 1.29535 | 1.29535 | | | | 54 8 | 11.85 | | | 54.43 | +12.92 |
| d | 9.90869 | 9.76782 | | | | | − 21.33 | | | − 10 | 69 |
| | 1.32899n | 1.18812n | | | | | − 15.42 | | | − 24 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +12.76 | |
| −4.92 | | | | | | | | | | + 50 | |
| δ₂ +0.31 | | 3 38.04 | | 7 50.7 | | | | | | −18.50 | |
| | | | | | 34 | | | | | 7 50.62 | 50.39 |
| | +34.39 | 4 17.2 | 25.5 | 42.7 | 4 21.35 | 48 | 27.00 | | 30 | 53 49 54.55 | |
| | 1.53643 | 1.53643 | | | | 53 60 | 31.57 | | | 50 4.52 | +11.98 |
| d | 1.53643 | 9.77078 | | | | | − 37.02 | | | − 31 | 77 |
| | 9.90704 | 1.43216n | | | | | − 27.05 | | | − 52 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.56842n | | | | | | | | | +12.81 | |
| −4.90 | | | | | | | | | | + 50 | |
| δ₁ +0.54 | | 6 10.79 | | 49 59.6 | | | | | | −17.90 | |
| | | | | | 34 | | | | | 49 59.25 | 59.04 |
| | +30.29 | 4 21.2 | 28.9 | 10.1 | 4 2.505 | 48 | 23.30 | | 30 | 53 49 57.34 | |
| | 1.48130 | 1.48130 | | | | 53 50 | 30.00 | | | 50 6.18 | +12.07 |
| d | 9.90704 | 9.77078 | | | | | − 32.67 | | | − 24 | 11.84 |
| | 1.51329n | 1.37703n | | | | | − 23.82 | | | − 62 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +12.43 | |
| −4.90 | | | | | | | | | | + 50 | |
| δ₂ +0.54 | | 6 10.83 | | 50 0.0 | | | | | | −18.30 | |
| | | | | | 41 | | | | | 49 59.72 | 59.49 |
| | +37.19 | 1 35.9 | 44.4 | 80.3 | 1 40.15 | 41 | 8.20 | | 40 | 53 42 53.71 | |
| | 1.56043 | 1.56043 | | | | 53 43 | 12.77 | | | 44.09 | +12.11 |
| d | 9.90639 | 9.77216 | | | | | − 39.86 | | | − 37 | 11.90 |
| | 1.59177n | 1.46754n | | | | | − 28.68 | | | − 20 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | 2934 | | | +12.18 | |
| −4.89 | | | | | | | | | | + 50 | |
| δ₁ +0.69 | | 7 56.84 | | 42 39.5 | | | | | | −17.80 | |
| | | | | | 41 | | | | | 42 39.65 | 38.84 |
| | +33.60 | 1 40.0 | 47.3 | 7.3 | 1 43.65 | 41 | 4.70 | | 40 | 53 42 34.41 | |
| | 1.52434 | 1.52634 | | | | 53 43 | 11.40 | | | 44.89 | +12.27 |
| d | 9.90639 | 9.77216 | | | | | − 36.96 | | | − 29 | 04 |
| | 1.55676 | 1.42345n | | | | | − 26.51 | | | − 24 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +12.30 | |
| −4.89 | | | | | | | | | | + 50 | |
| δ₂ +0.69 | | 7 56.80 | | 42 39.3 | | | | | | −18.10 | |
| | | | | | 54 | | | | | 38.83 | 38.60 |
| | + 30.50 | 3 59.8 | 6.6 | 126.4 | 4 31.60 | 28 | 45.15 | | 50 | 53 30 17.02 | |
| | 1.48430 | 1.48430 | | | | 53 30 | 49.72 | | | 25.54 | +11.71 |
| d | 9.90527 | 9.77422 | | | | | − 32.70 | | | − 25 | 50 |
| | 1.51452n | 1.38347n | | | | | − 24.18 | | | − 48 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +11.94 | |
| −4.88 | | | | | | | | | | + 50 | |
| δ₁ +1.03 | | 11 36.80 | | 30 21.1 | | | | | | −17.60 | |
| | | | | | 53 | | | | | 30 20.30 | 20.09 |
| | +35.68 | 3 55.4 | 2.0 | 117.4 | 3 58.70 | 28 | 49.65 | | 50 | 53 30 18.10 | |
| | 1.55242 | 1.55242 | | | | 53 30 | 56.35 | | | 28.06 | +11.65 |
| d | 9.90527 | 9.77422 | | | | | − 35.25 | | | − 35 | 42 |
| | 1.58264n | 1.45159n | | | | | − 28.29 | | | − 56 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +12.06 | |
| −4.88 | | | | | | | | | | + 50 | |
| δ₂ +1.03 | | 11 36.67 | | 30 22.4 | | | | | | −17.90 | |
| | | | | | | | | | | 30 21.56 | 21.35 |

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457 158 26

Date$_1$ = 1876, Feb. 17 Observer Recorder

Date$_2$ = 1876, Feb. 20 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 13 9 | 53 7 | 7.8 | 6 12 30.8 | 12 53.9 | 57.4 | 0.8 | 4.1 | 7.6 | 13 | 30.76 | | |
| | 11 48.8 | 7.1 | 7.5 | 34.1 | | | | | + 29.73 | | + 24.77 | | |
| | κ | | | 36.9 | | | | | | | − 4 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 33.98 | | | | | | 13 | 30.49 | | |
| | $a_1$ | | | | | | | | | | − 2.06 | | |
| | | | | | | | | | | | 28.43 | | |
| | | | | | | | | | | | 14 | | |
| | | | 7.5 | 12 20.4 | 12 53.3 | 56.7 | 0.1 | 3.6 | 7.0 | 13 | 0.~~43~~ | | |
| | κ | | | 22.9 | | | | | + 30.25 | | +30.41 | | |
| | | | | 26.0 | | | | | | | − 16 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 33.10 | | | | | | 13 | 30.39 | | |
| | $a_2$ | | | | | | | | | | − 2.00 | | |
| | | | | | | | | | | | 28.39 | | |
| | 15 26 | 53 8 | 8.3 | 14 52.1 | 15 10.8 | 14.3 | 17.6 | 21.1 | 24.8 | 15 | 1766 | | |
| | 14 4.2 | 7.9 | 8.5 | 53.4 | | | | | + 29.73 | | +29.77 | | |
| | κ | | | 57.8 | | | | | | | − 4 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 55.10 | | | | | | 15 | 47.39 | | |
| | $a_1$ | | | | | | | | | | − 2.68 | | |
| | | | | | | | | | | | 45.31 | | |
| | | | 8.2 | 14 42.8 | 15 10.1 | 13.7 | 17.1 | 20.5 | 24.0 | 15 | 17.08 | | |
| | κ | | | 45.8 | | | | | + 30.25 | | +30.41 | | |
| | | | | 49.3 | | | | | | | − 16 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 45.97 | | | | | | 15 | 47.33 | | |
| | $a_2$ | | | | | | | | | | − 2.02 | | |
| | | | | | | | | | | | 45.31 | | |
| | 17 39 | 53 8 | 8.4 | 16 57.0 | 17 25.0 | 28.6 | 31.9 | 35.4 | 38.8 | 17 | 3194 | | |
| | 16 17.3 | 7.9 | 8.3 | 2.2 | | | | | + 29.73 | | +29.77 | | |
| | κ | | | 4.5 | | | | | | | − 4 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 1.90 | | | | | | 18 | 1.67 | | |
| | $a_1$ | | | | | | | | | | − 2.11 | | |
| | | | | | | | | | | 17 | 59.56 | | |
| | | | 8.4 | 16 52.4 | 17 24.6 | 28.0 | 31.3 | 34.6 | 38.2 | 17 | 3134 | | |
| | κ | | | 55.5 | | | | | + 30.25 | | +30.41 | | |
| | | | | 57.9 | | | | | | | − 16 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 55.27 | | | | | | 18 | 1.59 | | |
| | $a_2$ | 28 | | | | | | | | | −2.05 | | |
| | | | | | | | | | | 17 | 59.54 | | |
| | 18 34 | 54 27 | 8.2 | 18 29.4 | 18 21.2 | 24.9 | 28.5 | 32.0 | 35.6 | 18 | 28.44 | | |
| | 17 12.5 | 28.0 | 8.4 | 29.40 | | | | | + 29.73 | | + 29.77 | | |
| | κ | | | | | | | | | | − 4 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 18 | 58.17 | | |
| | $a_1$ | | | | | | | | | | − 2.18 | | |
| | | | | | | | | | | | 55.99 | | |
| | 17 23.2 | 54 23.6 | 8.8 | 18 10.9 | 18 21.9 | 25.3 | 28.7 | 32.0 | 35.1 | 18 | 3880 | | |
| | κ | | | 14.1 | | | | | + 30.25 | | + 30.42 | | |
| | | | | 16.8 | | | | | | | − 17 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 13.93 | | | | | | 19 | 9.05 | | |
| | $a_2$ | | | | | | | | | | − 2.12 | | |
| | | | | | | | | | | | 6.93 | | |
| | 20 01 | 50 59 | 9.5 | 19 22.7 | 19 50.9 | 54.2 | 57.4 | 0.7 | 4.1 | 19 | 5746 | | |
| | 18 43.7 | 57.5 | 9.3 | 28.9 | | | | | + 29.73 | | + 29.77 | | |
| | κ | | | 29.0 | | | | | | | − 4 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 25.87 | | | | | | 20 | 27.19 | | |
| | $a_1$ | | | | | | | | | | − 2.05 | | |
| | | | | | | | | | | | 25.14 | | |
| | no Dom plate | | 9.5 | 19 31.6 | 19 29.5 | 32.8 | 36.1 | 39.3 | 42.7 | 19 | 3608 | | |
| | κ | | | 31.60 | | | | | + 30.27 | | + 30.42 | | |
| | | | | | | | | | | 20 | 6.35 | −1.99 → | 4.36 |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | 9.0 | 20 9.7 | 19 50.2 | 53.6 | 56.7 | 0.0 | 3.6 | 19 | 56.82 | | |
| | 18 45.7 | | | 12.8 | | | | | + 30.27 | | + 30.42 | | |
| | $a_2$ | | | 18.0 | | | | | | | − 15 | | |
| | | | | 13.50 | | | | | | 20 | 27.09 | −1.99 | |
| | | | | | | | | | | | − 1.99 | | |
| | | | | | | | | | | | 25.10 | | |

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Runs

| | $T_m - T_S$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | $t^z$ | $\delta'$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +2683 | 1 19.3 | 28.3 | 47.6 | 16/1 23.80 | 6 | 24.55 | | 15 | 53 8 | |
| | 1.42862 | 1.42862 | | | 53 | 8 | 29.12 | | | 4.66 | +11.68 |
| d | 9.90386 | 9.77812 | | | | | −28.62 | | | −19 | 47 |
| | 1.45668 | 1.33169 m | | | | | −21.46 | | | − 17 | |
| | | | | | | | | | | +11.54 | |
| | | | | | | | | | | + 50 | |
| −4.85 $\delta_1$ | | 13 23.58 | | 8 3.6 | | | | | | −17.40 | |
| +1.17 | | | | | | | | | | 8 2.59 | 2.38 |
| | +37.04 | 1 12.9 | 20.7 | 33.6 | 16/1 16.80 | 6 | 31.55 | | 15 | 53 8 | |
| | 1.56867 | 1.56467 | | | 53 | 8 | 38.25 | | | 8.63 | +11.61 |
| d | 9.90320 | 9.77795 | | | | | −39.52 | | | − 36 | 38 |
| | 1.59682 | 1.47157 m | | | | | −29.62 | | | − 18 | |
| | | | | | | | | | | +11.65 | |
| | | | | | | | | | | + 50 | |
| −4.85 $\delta_2$ | | 13 23.54 | | 8 3.2 | | | | | | −17.70 | |
| +1.17 | | | | | | | | | | 8 2.31 | 2.08 |
| | +2256 | 1 23.1 | 31.5 | 54.6 | 16/1 27.30 | 53 6 | 21.05 | | 15 | 53 8 | 7.57 |
| | 1.35834 | 1.35334 | | | 53 | 8 | 25.62 | | | − 14 | +11.73 |
| d | 9.90311 | 9.77812 | | | | | −24.07 | | | − 17 | 32 |
| | 1.38140 | 1.25641 m | | | | | −18.05 | | | +11.54 | |
| | | | | | | | | | | + 50 | |
| −4.85 $\delta_1$ | | 15 40.46 | | 8 3.9 | | | | | | −17.20 | |
| +1.37 | | | | | | | | | | 8 2.76 | 2.54 |
| | +31.11 | 1 16.0 | 23.9 | 39.9 | 16/1 19.95 | 6 | 28.40 | | 15 | 53 8 | +91 |
| | 1.49290 | 1.49290 | | | 53 | 8 | 35.10 | | | 10.22 | +11.72 |
| d | 9.90320 | 9.77795 | | | | | −33.19 | | | − 25 | 49 |
| | 1.52105 | 1.39580 m | | | | | −24.88 | | | − 18 | |
| | | | | | | | | | | +1165 | |
| | | | | | | | | | | + 50 | |
| −4.85 $\delta_2$ | | 15 40.46 | | 8 5.2 | | | | | | −17.60 | |
| +1.37 | | | | | | | | | | 8 4.11 | 3.88 |
| | +30.04 | 1 12.0 | 21.4 | 33.4 | 16/1 16.70 | 53 6 | 31.65 | | 15 | 53 8 | 4.17 12.85 |
| | 1.47770 | 1.47770 | | | 53 | 8 | 36.22 .87 | | | 12.23 | +11.65 |
| d | 9.90320 | 9.77795 | | | | | −32.05 | | | − 24 | 44 |
| | 1.50588 | 1.38060 m | | | | | −24.02 | | | − 15 | |
| | | | | | | | | | | +1154 | |
| | | | | | | | | | | + 50 | |
| −4.85 $\delta_1$ | | 17 54.71 | | δ 8.8 | | | | | | −17.10 | 19 8.75 |
| +1.56 | | | | | | | | | | 8 7.43 | 7.22 |
| | +36.07 | 1 6.9 | 14.8 | 21.7 | 16/1 10.85 | 6 | 37.50 | | 15 | 53 8 | 5.71 |
| | 1.55715 | 1.55715 | | | 53 | 8 | 44.20 | | | 15.36 | +11.65 |
| d | 9.90320 | 9.77795 | | | | | −35.46 | | | − 34 | 42 |
| | 1.58530 | 1.46005 m | | | | | −28.84 | | | − 17 | |
| | | | | | | | | | | + 1166 | |
| | | | | | | | | | | + 50 | |
| −4.85 $\delta_2$ | | 17 54.69 | | 8 10.6 | | | | | | −17.50 | |
| +1.56 | | | | | | | | | | 8 9.28 | 9.05 |
| | −096 | 1 47.7 | 55.9 | 103.6 | 56/1 51.80 | 54 25 | 56.55 | | 55 | 54 2.16 | |
| | 98.09822 | 98.98227 m | | | 54 | 25 3 28 | 1.12 | | | 28 1.86 | +13.32 |
| d | 9.91051 | 9.76431 | | | | | −11.06 | | | − 0 | 11 |
| | 0.04369 | 9.87153 | | | | | 1 .44 .04 | | | − 22 | |
| | 0.01773 | | | | | | + 0.74 | | | +12.99 | |
| | | | | | | | | | | + 55 | |
| −4.94 $\delta_1$ | | 18 51.05 | | 27 59.87 | | | | | | −1740 | |
| +1.65 | | | | | | | | | | 27 58.43 | 58.22 |
| | +24.87 | 0 44.9 | 53.3 | 98.2 | 0 49.10 | 21 ? | 59.25 5 | | 0 | 54 23 38.99 | |
| | 1.39568 | 1.39568 | | | 54 | 24 | 5.95 | | | 46.65 | +13.35 |
| d | 9.91014 | 9.76501 | | | | | −26.96 | | | − 16 | 12 |
| | 1.43077 | 1.28564 m | | | | | −19.30 | | | − 11 | |
| | | | | | | | | | | +13.07 | |
| | | | | | | | | | | + 55 | |
| −4.94 $\delta_2$ | | 19 1.99 | | 23 43.39 4 | 25 3.11 | | | | | −17.80 | |
| +1.65 | | | | | | | | | | 23 41.94 | 41.74 |
| | +31.59 | 0 18.3 | 28.3 | 46.6 | 0 23.30 | 59 57 | 25.05 28.16 | | 25 | 50 58 56.80 | |
| | 1.49955 | 1.49955 | | | 50 | 59 | 29.62 | | | 59 6.24 | +9.25 |
| d | 9.79903 | 9.79903 | | | | | −34.50 | | | − 27 | 04 |
| | 9.89040 | 1.42353 m | | | | | −32.73 | | | − 5 | |
| | 1.51490 | | | | | | −26.52 | | | +9.17 | |
| | | | | | | | | | | + 40 | |
| −4.71 $\delta_1$ | | 20 20.43 | | 59 1.3 | | | | | | −1640 | |
| +1.78 | | | | 58 58.17 | | | | | | 58 59.71 | 59.50 |
| | +448 | 4 6.3 | 13.9 | 20.2 | 4 10.10 | 58 | 38.25 | | 20 | 51 00 41.19 | 51 8 4.45 |
| | 0.65128 | 0.65128 | | | 52 | 0 | 44.95 | | | − 0 | − 8 |
| d | 9.89060 | 9.79872 | | | | | −3.76 | | | − 59 | +9.62 |
| | 0.66683 | 0.57495 m | | | | | | | | 8.89 | − 1 39 |
| −4.71 | −1.68 | 21 0.0 | 9.2 | 9.2 | 25/4 4.60 | 58 6 | 43.75 | | 25 | +931 | +9.31 |
| +1.78 $(\delta) - D) \frac{d'}{100}$ | 1.22220 | 1.22220 m | 19 | | 26 | 50 | 50.45 | | | + 40 | + 40 |
| | 9.89050 | 9.79887 | 20 59.65 | 0 34.8 | | 58 | +17.27 | | | −1680 | −1680 |
| $\delta_2$ | 1.23765 | 21.14602 | | | | | +14.00 | | | 00 33.48 | |
| | | | | | | | | | | 33.05 | 50 54 57.07 |
| −4.71 | | | 20 38.39 | 58 58.6 | | | | | | | 58 56.81 |
| +1.78 | | | | | | | | | | | |

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457 458 28

Date$_1$ = 1876. Feb. 17 Observer / Recorder

Date$_2$ = 1876 Feb. 20 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 25 8 | 51 53 | 9.1 | 6 24 30.7 | 24 59.0 | 21.5 | 5.9 | 9.1 | 12.5 | 25 | 5.80 | | |
| | 23 52.6 | | 9.0 | 34.0 | | | | | + 29.73 | | + 29.77 | | |
| | κ | | | 36.6 | | | | | | | − 4 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 33.7 | | | | | | 25 | 35.53 | | |
| | $a_1$ | | | | | | | | | | − 2.14 | | |
| | | | | | | | | | | | 33.39 | | |
| | | | | | | | | | | | 476 | | |
| | | | | | | | | | | | 2869 | | |
| | | | 9.0 | 24 26.8 | 24 58.5 | 1.9 | 5.2 | 8.7 | 12.0 | 25 | 5.20 | | |
| | | | | 30.5 | | | | | + 30.27 | | +30.42 | | |
| | κ | | | 33.0 | | | | | | | − 15 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 30.10 | | | | | | 25 | 35.47 | | |
| | $a_2$ | | | | | | | | | | − 2.08 | | |
| | | | | | | | | | | | 33.39 | | |
| | | | | | | | | | | | 2863 | | |
| | 26 26 | 51 32 | 8.5 | 25 55.0 | 26 20.9 | 24.1 | 27.6 | 30.8 | 34.2 | 26 | 27.52 | | |
| | 25 10.8 | | 8.5 | 58.0 | | | | | + 29.72 | | +29.786 | | |
| | κ | | | 0.8 | | | | | | | − 4 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 57.93 | | | | | | 26 | 57.24 | | |
| | $a_1$ | | | | | | | | | | − 2.13 | | |
| | | | | | | | | | | | 55.11 | | |
| | | | | | | | | | | | 474 | | |
| | | | | | | | | | | | 5037 | | |
| | | | 8.7 | 25 53.5 | 26 20.4 | 23.8 | 26.9 | 30.4 | 33.8 | 26 | 27.06 | | |
| | | | | 57.5 | | | | | + 30.27 | | +30.42 | | |
| | κ | | | 0.0 | | | | | | | − 15 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 57.00 | | | | | | 26 | 57.33 | | |
| | $a_2$ | | | | | | | | | | − 2.07 | | |
| | | | | | | | | | | | 55.26 | | |
| | | | | | | | | | | | 5052 | | |
| | 27 26 | 53 38 | 8.8 | 26 57.5 | 27 14.7 | 18.3 | 21.8 | 25.2 | 28.8 | 27 | 21.76 | | |
| | 26 45 | 38.1 | 8.8 | 57.7 | | | | | + 29.72 | | + 29.76 | | |
| | κ | | | 59.8 | | | | | | | − 4 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 57.23 | | | | | | 27 | 57.48 | | |
| | $a_1$ | | | | | | | | | | − 2.23 | | |
| | | | | | | | | | | | 49.25 | | |
| | | | | | | | | | | | 487 | | |
| | | | | | | | | | | | 5038 | | |
| | | | 8.5 | 26 59.3 | 27 14.1 | 17.6 | 21.1 | 24.7 | 28.1 | 27 | 2.112 | | |
| | | | | 2.3 | | | | | + 30.26 | | +30.42 | | |
| | κ | | | 5.1 | | | | | | | − 16 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 2.23 | | | | | | 27 | 51.38 | | |
| | $a_2$ | | | | | | | | | | − 2.18 | | |
| | | | | | | | | | | | 49.20 | | |
| | 30 44 | 53 34 | 9.0 | 28 18.3 | 28 37.7 | 41.1 | 44.7 | 48.1 | 51.6 | 28 | 44.64 | | |
| | 29 21.8 | | | 22.0 | | | | | + 29.72 | | + 29.76 | | |
| | κ | | | 25.0 | | | | | | | − 4 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 21.77 | | | | | | 29 | 14.36 | | |
| | $a_1$ | | | | | | | | | | − 2.24 | | |
| | | | | | | | | | | | 12.12 | | |
| | | | | | | | | | | | 40 | | |
| | | | 9.2 | 27 56.1 | 28 28.4 | 27.0 | 30.4 | 34.0 | 37.2 | 28 | 30.60 | | |
| | | | | 59.2 | | | | | + 30.26 | | +30.42 | | |
| | κ | | | 3.1 | | | | | | | − 16 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 59.47 | | | | | | 29 | 0.68 | | |
| | $a_2$ | | | | | | | | | | − 2.18 | | |
| | | | | | | | | | | 28 | 58.48 | | |
| | 32 57 | 54 15 | 8.2 | 32 14.7 | 32 48.3 | 36.9 | 40.4 | 44.0 | 47.4 | 32 | 40.40 | | |
| | 31 24.7 | 14.7 | 7.5 | 18.0 | | | | | + 29.72 | | + 29.76 | | |
| | κ | | | 21.0 | | | | | | | − 4 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 17.90 | | | | | | 33 | 10.12 | | |
| | $a_1$ | | | | | | | | | | − 2.32 | | |
| | | | | | | | | | | | 7.80 | | |
| | | | 7.6 | 32 32 | 32 32.8 | 36.4 | 39.9 | 43.4 | 46.9 | 32 | 39.88 | | |
| | | | | 5.8 | | | | | + 30.25 | | +30.42 | | |
| | κ | | | 5.1 | | | | | | | − 17 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 3.70 | | | | | | 33 | 10.13 | | |
| | $a_2$ | | | | | | | | | | − 2.26 | | |
| | | | | | | | | | | | 7.87 | | |

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Runs

| | $T_m - T_\zeta$ | A | C | Sum | | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | +32.03 | 1 1.1 | 10.0 | 11.1 | 31 1′ | 5″55 | 51′ | 42″80 | | 30 | 51° 53 + 0.65 | |
| | 1.50556 | 1.50536 | | | | | 51 53 | 47.37 | | | 19.76 | |
| d | 9.895944 | 9.79031 | | | | | | −33.64 | | | 21.02 | +1020 |
| | 1.526454 | 1.42082n | | | | | | −26.35 | | | − 27 | 9.99 |
| | | 2863 | | | | | | | | | − 13 | |
| ((δ) — D) $\frac{d'}{100}$ | | 25 38.15 | | 53 17.6 | | | | | | | +10.15 | |
| −4.76 δ₁ | | | | | | | | | | | + 45 | |
| +2.22 | | | | | | | | | | | −16.30 | |
| | | | | | | | | | | | 1515.7 | 15.36 |
| | +35.10 | 0 58.2 | 7.0 | 12.52 | 31 1 | 2.60 | 51 | 45.75 | | 30 | 51 53 0.73 16.62 | |
| | 1.54531 | 1.54531 | | | | | 51 53 | 52.45 | | | 23.57 | + 10.27 |
| d | 9.89594 | 9.79031 | | | | | | −36.53 | | | − 32 | 04 |
| | 1.56620n | 1.46057n | | | | | | −28.88 | | | − 14 | |
| | | 2863 | | | | | | | | | + 1028 | |
| ((δ) — D) $\frac{d'}{100}$ | | 25 38.15 | | 53 18.9 | | | | | | | + 45 | |
| −4.76 δ₂ | | | | | | | | | | | −16.70 | |
| +2.22 | | | | | | | | | | | 53 16.9+ | 16.68 |
| | +29.59 | 4 47.3 | 55.9 | 103.2 | 54 4 | 51.60 | 51 27 | 56.75 | | 50 | 51 29 30.45 | |
| | 1.47100 | 1.47100 | | | | | 51 30 | 1.32 | | | 36.77 | +9.32 |
| d | 9.89354 | 9.79415 | | | | | | −24.52✓ | | | − 23 | 11 |
| | 1.38949n | 1.39010n | | | | | | −30.87 | | | − 58 | |
| | | 5037 | | | | | | −24.55 | | | + 973 | |
| ((δ) — D) $\frac{d'}{100}$ | | 26 59.85 | | 29 32.8 | | | | | | | + 40 | |
| −4.74 δ₁ | | | | | | | | | | | −16.10 | |
| +2.33 | | | | | | | | | | | 29 30.64 | 30.43 |
| | +30.06 | 4 48.5 | 55.9 | 104.4 | 54 4 | 52.20 | 51 29 | 56.15 | | 50 | 51 29 31.47 | |
| | 1.47799 | 1.47799 | | | | | 51 30 | 2.85 | | | 37.90 | +9.33 |
| d | 9.89364 | 9.79415 | | | | | | −31.38 | | | − 24 | 10 |
| | 1.49658n | 1.39709n | | | | | | −24.95 | | | − 69 | |
| | | 2650 52 | | | | | | | | | + 986 | |
| ((δ) — D) $\frac{d'}{100}$ | | 27 02.02 | | 29 32.6 | | | | | | | + 40 | |
| −4.74 δ₂ | | | | | | | | | | | −16.50 | |
| +2.33 | | | | | | | | | | | 29 30.50 | 30.27 |
| | +24.43 | 2 28.0 | 35.5 | 63.5 | 47 2 | 31.75 | 35 | 16.60 | | 45 | 53 36 57.95 | |
| | 1.38792 | 1.38792 | | | | | 53 37 | 21.17 | | | 37 1.85 | +1210 |
| d | 9.90583 | 9.77319 | | | | | | −26.22 | | | − 16 | 11.89 |
| | 1.41870n | 1.28606n | | | | | | −19.32 | | | − 30 | |
| | | 4438 | | | | | | | | | +12.06 | |
| ((δ) — D) $\frac{d'}{100}$ | | 27 54.12 | | 37 0.2 | | | | | | | + 50 | |
| −4.87 δ₁ | | | | | | | | | | | −1660 | |
| +2.42 | | | | | | | | | | | 36 50.00 | 57.79 |
| | +18.89 | 2 33.9 | 41.1 | 75.0 | 47 2 | 37.50 | 35 | 10.85 | | 45 | 53 36 57.27 | |
| | 1.27623 | 1.27623 | | | | | 53 37 | 17.55 | | | 37 2.61 | +12.25 |
| d | 9.90583 | 9.77319 | | | | | | −20.28 | | | − 9 | 02 |
| | 1.30701n | 1.17437n | | | | | | −14.94 | | | − 36 | |
| | | 4433 | | | | | | | | | +1220 | |
| ((δ) — D) $\frac{d'}{100}$ | | 27 54.07 | | 36 59.8 | | | | | | | + 50 | |
| −4.87 δ₂ | | | | | | | | | | | −17.00 | |
| +2.42 | | | | | | | | | | | 36 57.63 | 57.40 |
| | +22.87 | 2 59.9 | 7.1 | 127.0 | 48 3 | 35.0 | 31 | 44.85 | | 45 | 53 36 31.33 | |
| | 1.35927 | 1.35927 | | | | | 53 36 | 49.42 | | | 14 | |
| d | 9.90583 | 9.77319 | | | | | | −20.28 | | | − 36 | +12.44 |
| | 1.39052n | 1.25741n | | | | | | −24.55 | | | +12.04 | 04 |
| | | | | | | | | −18.09 | | | + 50 | 11.83 |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | | −16.50 | |
| δ₁ | | | | | | | | | | | 36 24.52 | 27.31 |
| | +30.93 | 2 53.9 | 0.5 | 114.4 | 52 2 | 57.20 | 29 | 51.15 | | 50 | 53 31 33.34 | |
| | 1.49038 | 1.49038 | | | | | 53 31 | 57.85 | | | 25 | +11.94 |
| d | 9.90527 | 9.77405 | | | | | | −33.14 | | | − 41 | 71 |
| | 1.52070n | 1.38938n | | | | | | − 24.51 | | | +1210 | |
| | | | | | | | | | | | + 50 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | | −16.90 | |
| δ₂ | | | | | | | | | | | 31 28.15 | 27.92 |
| | +22.50 | 0 46.8 | 55.8 | 102.6 | 16 0 | 51.30 | 1 11 | 57.05 | | 10 | 54 13 38.36 | |
| | 1.33244 | 1.33244 | | | | | 54 14 | 1.62 | | | 44.86 | +1301 |
| d | 9.90924 | 9.76677 | | | | | | −23.26 | | | − 13 | 12.80 |
| | 1.36663n | 1.22416n | | | | | | −16.76 | | | − 10 | |
| | | 289 | | | | | | | | | +12.74 | |
| ((δ) — D) $\frac{d'}{100}$ | | 33 12.71 | | 13 44.8 | | | | | | | + 50 | |
| −4.91 δ₁ | | | | | | | | | | | −16.40 | |
| +2.88 | | | | | | | | | | | 13 42.12 | 41.91 |
| | +34.18 | 0 38.4 | 46.8 | 85.2 | 10 0 | 42.60 | 12 | 5.75 | | 10 | 54 13 35.47 | |
| | 1.53377 | 1.53377 | | | | | 54 14 | 12.45 | | | 45.81 | +1298 |
| d | 9.90214 | 9.76677 | | | | | | −36.98 | | | − 30 | 75 |
| | 1.56796n | 1.42549n | | | | | | −26.64 | | | − 10 | |
| | | 292 | | | | | | | | | +12.88 | |
| ((δ) — D) $\frac{d'}{100}$ | | 33 12.78 | | 13 44.4 | | | | | | | + 50 | |
| −4.91 δ₂ | | | | | | | | | | | −16.80 | |
| +2.88 | | | | | | | | | | | 13 41.76 | 41.53 |

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457

# Single Observations

458

30

Date$_1$ = 1876, Feb. 17 — Observer W.A.R. — Recorder J.T.M.

Date$_2$ = 1876, Feb. 20 — 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Feb.17 | | | | | | | | | | | | | |
| | 0 41 | 53 39 | 8.2 | 6 0 27.1 | 0 24.4 | 27.8 | 31.2 | 34.7 | 38.4 | 0 | 31.30 | | |
| | 59 19.1 | 38.4 | 8.0 | 30.1 | | | | | | | +29.77 | | |
| | κ | | | 33.2 | | | | | + 29.73 | | − 4 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 34.0 | | | | | | 1 | 1.03 | | |
| | | | | 31.10 ~~31.7~~ | | | | | | | −1.94 | | |
| | $\alpha_1$ | | | | | | | | | 0 | 59.09 | | |
| Feb.17 | | | | | | | | | | | | | |
| | 1 25 | 53 50 | 8.2 | 1 3.4 | 1 12.3 | 15.9 | 19.4 | 22.9 | 26.5 | 1 | 1940 | | |
| | 0 23.3 | 50.2 | 8.2 | 6.2 | | | | | | | +29.77 | | |
| | κ | | | 9.4 | | | | | + 29.73 | | − 4 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 6.33 | | | | | | 1 | 49.13 | | |
| | | | | | | | | | | | −1.95 | | |
| | $\alpha_2$ | | | | | | | | | | 47.18 | | |
| | 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

| | $T_m - T_\zeta$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | + 0.20 | 1 27.2 | 35.3 | 6 25 | 46 1′ 31.25 | 36′ | 17″10 | | 45 | 53° 38′ 21.46 + 0.65 | |
| d | 9.830103 | 9.30103 | | | | 53 38 | 21.67 | | | 21.52 | +12,40 |
| | 9.90592 | 9.77302 | | | | | − 11.51 | | | 0 | 19 |
| | 0.060674 | 9.19900 m | | | | | − 0.21 | | | − 18 | |
| ((δ) − D) $\frac{d'}{100}$ | 9.331 90 m | | | | | | − 0.15.81 | | | + 12.08 | |
| | | | | | | | | | | + 50 | |
| −4.89 $\delta_1$ | | 0 54.20 | | 38 16.3 | | | | | | − 18.10 | |
| +0.08 | | | | | 33 2 47′ | | | | | 38 16.47 + 0.65 | 16.26 |
| | + 13.07 | 3 21.4 | 27.6 | 11.0 | 3 25.50 | 49 | 22.85 | | 30 | 53 51 15.48 | |
| d | 0.11628 | 0.11628 | | | | 53 51 | 29.55 | | | 19.27 | +12,36 |
| | 9.90713 | 9.77078 | | | | | − 11.07 | | | − 15 | 15 |
| ((δ) − D) $\frac{d'}{100}$ | 0.14836 | 0.01201 m | | | | | − 10.28 | | | − .41 | |
| | | | | | | | | | | + 12.32 | |
| −4.90 $\delta_2$ | | 1 42.28 | | 51 14.0 | | | | | | + 50 | |
| +0.15 | | | | | | | | | | − 18.20 | |
| | | | | | | | | | | 51 14.08 | 13.87 |
| 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) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |
| 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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Date$_1$ = 1876, March 6 $n = -.17$ Observer W.A.R. Recorder J.T.M.



Date$_2$ = 1876, March 7 $n = -.15$ $c = -.10$ Observer W.A.R. Recorder J.T.M.



| Star. | α | δ | Mag. | $T_s$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 14 6 | 50 5 | 8.8 | 6 18 22.2 | 13 33.0 | 36.0 | 39.3 | 42.6 | 45.8 | 13 | 39.34 | | |
| | 12 50.8 | 50.8 | 8.9 | 24.9 | 36.0 | | | | | | +38.47 | | |
| | κ 40.8 | 5.0 | | 27.0 | | | | | + 38.27 | | − 20 | | |
| | | | | 24.87 | | | | | | | | | |
| | (δ) − D) $\frac{\kappa'}{100}$ | | 8.4 | 14 4.0 | 13 44.7 | 47.7 | 50.9 | 54.1 | 57.5 | 13 | 50.98 | 14 17.61 | −4.67 |
| | 12 50.9 | 50 5.0 | | 7.3 | | | | | | | +38.47 | −1.56 | +1.25 |
| | $\alpha_1$ | | | 10.0 | | | | | + 38.27 | | − 20 | 16.05 | |
| | | | | 7.10 | | | | | | | | 14 29.25 | −4.6 |
| | | | | | | | | | | | | −1.56 | |
| | | | 9.0 | 13 30.3 | 13 32.4 | 35.4 | 38.7 | 42.0 | 45.2 | 13 | 38.74 | 27.69 | +1.25 |
| | | | | 33.3 | | | | | | | +39.25 | | |
| | κ | | | 36.1 | | | | | + 38.91 | | − 18 | | |
| | | | | 33.23 | | | | | | | − 16 | 14 17.65 | −4.67 |
| | (δ) − D) $\frac{\kappa'}{100}$ | | 8.5 | 14 43.8 | 13 43.8 | 47.1 | 50.4 | 53.6 | 56.7 | 13 | 50.32 | − 1.53 | +1.25 |
| | | | | 37.7 | | | | | | | +39.25 | 16.12 | |
| | $\alpha_2$ | | | 6.7 | | | | | + 38.91 | | − 18 | | |
| | | | | 3.70 | | | | | | | − 16 | 14 29.91 | −4.6 |
| | | | | | | | | | | 41 | | | |
| | 17 56 | 54 20 | 8.7 | 17 7.8 | 17 24.3 | 38.8 | 41.4 | 44.8 | 48.4 | 17 | 40.38 | − 1.53 | +1.25 |
| | 16 32.8 | 19.6 | 8.8 | 10.2 | | | | | | | +38.47 | 27.70 | |
| | κ | | | 12.8 | | | | | + 38.23 | | − 24 | | |
| | | | | 10.17 | | | | | | 18 | 22.64 | 1961 | |
| | (δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | −1.73 | | |
| | | | | | | | | | | | 20.88 | 17.88 | |
| | $\alpha_1$ | | | | | | | | | | | | −4.9 |
| | | | | | | | | | | | | | +1.5 |
| | | | 8.6 | 17 1.0 | 17 33.7 | 37.3 | 41.2 | 44.4 | 47.9 | 17 | 40.90 | | |
| | | | | 4.3 | | | | | | | +39.25 | | |
| | κ | | | 6.7 | | | | | + 38.87 | | − 21 | | |
| | | | | 4.00 | | | | | | | − 17 | | |
| | (δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 18 | 19.77 | | |
| | | | | | | | | | | | −1.70 | | |
| | $\alpha_2$ | | | | | | | | | | 18.07 | | −4.93 |
| | | | | | | | | | | | | | +1.59 |
| | 19 12 | 54 52 | 8.4 | 18 18.2 | 18 9.3 | 12.9 | 16.5 | 20.0 | 23.7 | 18 | 16.48 | | |
| | 17 49.9 | 52.1 | 8.7 | 21.6 | | | | | | | +38.47 | | |
| | κ 7.4 | | | 24.0 | | | | | + 38.23 | | − 24 | 18 54.71 | −4.96 |
| | | | | 2.143 | | | | | | | 94 | − 1.75 | +1.70 |
| | (δ) − D) $\frac{\kappa'}{100}$ | | 8.9 | 18 45.1 | 18 49.9 | 53.2 | 56.9 | 0.6 | 4.1 | 18 | 56.94 | 52.96 | |
| | 17 49.9 | | | 48.4 | | | | | | | +38.47 | | |
| | $\alpha_1$ | | | 57.4 | | | | | + 38.23 | | − 24 | | −4.9 |
| | | | | 48.30 | | | | | | | | 19 3.51.7 | +1.7 |
| | | | 8.2 | 18 6.8 | 18 8.8 | 12.4 | 16.0 | 19.6 | 23.0 | 18 | 15.96 | − 1.76 | |
| | | | | 5.0 | | | | | | | +39.25 | 33.41 | |
| | κ | | | 11.6 | | | | | + 38.87 | | − 21 | | −4.96 |
| | | | | 8.47 | | | | | | | − 17 | | +1.70 |
| | (δ) − D) $\frac{\kappa'}{100}$ | | 8.5 | 18 47.4 | 18 49.2 | 52.8 | 56.3 | 59.9 | 3.5 | 18 | 56.34 | 18 54.83 | |
| | | | | 50.7 | | | | | | | +39.25 | − 1.72 | |
| | $\alpha_2$ | | | 52.8 | | | | | + 38.87 | | − 21 | 53.11 | −4.9 |
| | | | | 50.63 | | | | | | | − 17 | 19 3.5.21 | +1.7 |
| | 20 39 | 53 55 | 8.9 | 19 49.1 | 20 15.4 | 19.0 | 22.8 | 25.8 | 29.4 | 20 | 22.38 | − 1.73 | |
| | 19 17.0 | 55.0 | 9.0 | 52.3 | | | | | | | +38.47 | 33.48 | |
| | κ | | | 55.1 | | | | | + 38.24 | | − 23 | | |
| | | | | 52.17 | | | | | | 21 | 0.62 | | |
| | (δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | −1.75 | | |
| | | | | | | | | | | 20 | 58.87 | | −4.90 |
| | $\alpha_1$ | | | | | | | | | | | | +1.82 |
| | | | 8.9 | 19 48.5 | 20 14.7 | 18.3 | 21.8 | 25.2 | 28.7 | 20 | 21.74 | | |
| | | | | 52.6 | | | | | | | +39.25 | | |
| | κ | | | 58.7 | | | | | + 38.87 | | − 21 | | |
| | | | | 52.27 | | | | | | | − 17 | | |
| | (δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 21 | 0.61 | | |
| | | | | | | | | | | | −1.72 | | |
| | $\alpha_2$ | | | | | | | | | 20 | 58.89 | | −4.90 |
| | | | | | | | | | | | | | +1.82 |
| | 32 52 | 53 9 | 9.0 | 32 16.5 | 32 21.2 | 24.7 | 28.0 | 31.4 | 34.8 | 32 | 28.02 | | |
| | 31 29.8 | 10.0 | 9.0 | 19.5 | | | | | | | +38.48 | | |
| | κ 23.2 | 16 | | 22.4 | | | | | + 38.25 | | − 23 | | |
| | | | | 19.47 | | | | | | 33 | 6.27 | | |
| | (δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | −1.86 | | |
| | | | | | | | | | | | 4.41 | | −4.8 |
| | $\alpha_1$ | | | | | | | | | | | | +2.2 |
| | | | 9.0 | 32 30.0 | 32 20.5 | 24.0 | 27.5 | 30.8 | 34.3 | 32 | 27.42 | | |
| | | | | 33.5 | | | | | | | +39.25 | | |
| | κ | | | 37.0 | | | | | + 38.88 | | − 20 | | |
| | | | | 33.50 | | | | | | | − 17 | | |
| | (δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 33 | 6.30 | | |
| | | | | | | | | | | | − 1.84 | | |
| | $\alpha_2$ | | | | | | | | | | 4.46 | | −4.8 |
| | | | | | | | | | | | | | +2.2 |

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March 6 +2′ 6.″40 −.″21 −.″78
7 +2 8.52 −.23 −.18

−.78
−.18

Runs

| | $T_m - T\int$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +14.47 | 3 48.1 | 57.9 | 106.0 | 53.00 | 3′ | 55.35 | | 15 | 50° 5′ 47.29 | 49.66 4 44.59 |
| | 1.15047 | 1.15047 | | | | 6 | 1.75 | | | 49.66 | +737 − 5 +809 − 7 |
| d | 9.88489 | 9.80716 | | | | | 11.46 | | | | 6.59 − 82 7.31 − 8 |
| −4.67 | 1.16031n | 1.08258n | | | | | 12.09 | | | | +7.94 +7.94 |
| +1.25 ((δ) − D) $\frac{d'}{100}$ | −16.12 | 0 18.5 | 29.4 | 47.9 | 23.95 | 2 | 21.40 | | 20 | 50 4 47.29 | + 30 + 30 |
| | 1.20737n | 1.20737n | | | | 4 | 30.80 | | | 44.59 | −1810 −18.10 |
| δ1 | 9.88478 | 9.80731 | 14 11.38 | 5 39.4 | | | +16.49 | | | | 5 3493 4 3 |
| −4.67 | 1.21710 | 1.13963 | 23.02 | 4 350 | 19 | | +13.79 | | | | 38.15 33.80 |
| +1.25 | + 5.51 | 3 58.6 | 10.8 | 129.4 | 4.70 | 3 | 43.65 | | 15 | 50 5 46.53 | 47.46 4 43.77 |
| | 0.74115 | 0.74115 | | | | 5 | 52.17 | | | 47.46 | +7.18 − 1 +796 − 5 |
| d | 9.88489 | 9.80731 | | | | | 5.67 | | | | 00 − 92 7 − 9 |
| −4.67 | 0.75099n | 0.67341n | | | | | 4.71 | | | | + 7.81 7.79 + 7.81 |
| +1.25 ((δ) − D) $\frac{d'}{100}$ | −13.38 | 0 17.6 | 31.5 | 49.1 | 24.55 | 2 | 23.80 | | 20 | 50 4 46.00 | + 30 + 30 |
| | 1.12646n | 1.12646n | | | | 4 | 32.32 | | | 43.77 | −1810 −1810 |
| δ2 | 9.88478 | 9.80731 | 14 11.45 | 5 37.6 | | | +13.66 | | | | 5 3654 4 33.64 |
| −4.67 | 1.13619 | 1.05872 | 23.03 | 4 347 | | | +11.45 | | | | 3636 33.46 |
| +1.25 | +31.21 | 4 26.6 | 34.9 | 61.5 | 30.75 | 18 | 17.60 | | 0 | 54 19 50.69 | |
| | 1.49429 | 1.49429 | | | | 20 | 7.40 | | | 59.74 | +11.74 |
| d | 9.90978 | 9.76572 | | | | | 24.00 | | | 26 | 10.96 |
| | 1.52902n | 1.38496n | | | | | 33.31 | | | − 95 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | 24.26 | | | +12.40 | |
| | | | 18 | | | | | | | + 55 | |
| −4.93 δ1 | | | 20 12.95 | 1953.1 | | | | | | −19.20 | |
| +1.59 | | | | 4 | | | | | | 19 52.28 | 51.50 |
| | +36.90 | 4 24.2 | 35.1 | 59.3 | 29.65 | 18 | 18.70 | | 0 | 54 19 47.25 | |
| | 1.56703 | 1.56703 | | | | 20 | 27.22 | | | 68.53 | +11.38 |
| d | 9.90978 | 9.76572 | | | | | 39.97 | | | 36 | 20 |
| | 1.60176n | 1.45770n | | | | | 28.69 | | | − 104 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +12.23 | |
| | | | | | | | | | | + 55 | |
| −4.93 δ2 | | | 18 13.14 | 1952.1 | | | | | | −19.20 | |
| +1.59 | | | | 34 | | | | | | 19 5.41 | 50.53 |
| | − 4.95 | 4 26.0 | 34.6 | 60.6 | 30.30 | 48 | 18.05 | | 30 | 54 50 29.85 | 28.25 51 45.72 |
| | 0.69461n | 0.69461n | | | | 50 | 24.15 | | | 28.25 | − 1 +1258 − 2 1285 |
| −4.96 d | 9.91248 | 9.76039 | | | | | + 5.40 | | | | − 95 11.80 − 63 11 |
| +1.70 | 0.73204 | 0.57995 | | | | | + 3.80 | | | | +1294 +12.94 |
| ((δ) − D) $\frac{d'}{100}$ | + 8.64 | 2 57.7 | 7.1 | 124.8 | 2.40 | 49 | 45.95 | | 30 | 54 51 42.93 | + 60 + 60 |
| | 0.93651 | 0.93651 | | | | 51 | 52.35 | | | 45.72 | −19.30 −19.30 |
| −4.56 δ1 | 9.91266 | 9.76003 | 18 48.00 | 50 22.4 | | | 9.42 | | | 50 2158 | 51 3937 |
| +1.70 | 0.97422n | 0.82149n | 19 28.45 | 51 34 40.2 | | | 6.63 | | | | 20.75 38.53 |
| | +7.49 | 4 19.6 | 31.0 | 50.6 | 25.30 | | | | 30 | 54 50 23.40 | 25.82 51 44.64 |
| | 0.87448 | 0.87448 | | | | 48 | 23.05 | | | 25.82 | − 1+1234 − 1+1263 |
| −4.56 d | 9.91257 | 9.76021 | | | | 50 | 31.57 | | | | − 101 16 − 72 45 |
| +1.70 | 0.91200n | 0.75964n | | | | | 8.17 −5.75 | | | | +12.76 +12.76 |
| ((δ) − D) $\frac{d'}{100}$ | + 5.71 | 3 2.9 | 12.8 | 15.7 | 7.85 | 49 | 40.50 | | 30 | 54 51 42.79 | + 60 + 60 |
| | 0.75664 | 0.75664 | | | | 51 | 49.02 | | | | −19.40 −19.30 |
| −4.96 δ2 | 9.91266 | 9.76003 | 18 48.15 | 50 20.3 | | | 6.23 4.38 | | | | 50 1476 51 3794 |
| +1.70 | 0.79425n | 0.64162n | 19 28.52 | 51 29 39.5 | | | | | | | 18.58 37.79 |
| | +30.21 | 4 41.4 | 49.9 | 11.3 | 45.65 | 53 | 2.70 | | 25 | 53 54 36.55 | |
| | 1.48015 | 1.48015 | | | | 55 | 9.10 | | | 45.38 | +11.23 |
| d | 9.90750 | 9.77009 | | | | | 32.55 | | | 24 | 10.45 |
| | 1.51260n | 1.37519n | | | | | 23.72 | | | − 99 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +11.96 | |
| −4.90 | | | | | | | | | | + 50 | |
| +1.82 δ1 | | | 20 53.97 | 54 38.8 | | | | | | −18.90 | |
| | | | | 29 | | | | | | 54 37.71 | 36.93 |
| | +29.47 | 4 45.0 | 55.2 | 100.2 | 50.10 | 52 | 58.25 | | 25 | 53 54 35.01 | |
| | 1.46938 | 1.46938 | | | | 53 | 6.77 | | | 43.63 | +10.98 |
| d | 9.90750 | 9.77009 | | | | 55 | 31.46 | | | 22 | 10.80 |
| | 1.50183n | 1.36442n | | | | | 23.14 | | | − 110 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +11.80 | |
| −4.90 | | | | | | | | | | + 50 | |
| +1.82 δ2 | | | 20 53.99 | 54 37.2 | | | | | | −19.00 | |
| | | | | 23 | | | | | | 54 35.61 | 35.43 |
| | + 8.55 | 3 47.2 | 55.0 | 102.2 | 57.10 | 58 | 57.25 | | 20 | 53 80 54.57 | |
| | 0.93197 | 0.93197 | | | | 53 | 3.65 | | | 56.79 | +1068 |
| d | 9.90244 | 9.77930 | | | | 1 | 9.11 | | | 2 | 9.90 |
| | 0.95936n | 0.83622n | | | | | 6.86 | | | − 82 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +12.02 | |
| −4.83 | | | | | | | | | | + 11.50 | |
| +2.89 δ1 | | | 32 59.58 | 0 51.5 | | | | | | −1810 | |
| | | | | 24 | | | | | | 00 49.34 | 48.59 |
| | − 6.08 | 4 1.1 | 11.7 | 12.8 | 6.40 | 58 | 41.95 | | 20 | 53 0 43.44 | |
| | 0.78390n | 0.78390n | | | | 53 | 0 50.47 | | | 55.35 | +1044 |
| d | 9.90244 | 9.77930 | | | | | 6.18 | | | − 1 | 23 |
| | 0.81129n | 0.68815 | | | | | 4.88 | | | − 94 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +10.86 | |
| −4.83 | | | | | | | | | | + 50 | |
| +2.89 δ2 | | | 32 59.63 | 0 50.3 | | | | | | −18.20 | |
| | | | | | | | | | | 54 59 47.56 | |
| | | | | | | | | | | 0 47.38 | |

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Date$_1$ = 1876, March 6 Observer / Recorder

Date$_2$ = 1876, March 7 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 33 50 | 53 25 | 6.0 | 6 33 23.0 | 33 27.2 | 30.6 | 34.0 | 37.5 | 41.0 | 33 | 3406 | | |
| | 32 28.4 | 25.7 | 6.5 | 25.8 | | | | | + 38.25 | | + 38.48 | | |
| | κ | | | 28.8 | | | | | | | − 23 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 28.57 | | | | | | 34 | 12.31 | | |
| | $a_1$ | | | | | | | | | | − 1.89 | | |
| | | | | | | | | | | | 10.42 | | |
| | | | 6.5 | 33 49.1 | 33 26.7 | 29.7 | 33.3 | 36.9 | 40.7 | 33 | 33.30 | | |
| | κ | | | 51.8 | | | | | 8. | | + 39.25 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 55.3 | | | | | + 38.88 | | − 20 | | |
| | $a_2$ | | | 52.07 | | | | | | 34 | − 17 | | |
| | | | | | | | | | | | 12.18 | | |
| | | | | | | | | | | | − 1.86 | | |
| | | | | | | | | | | | 10.32 | | |
| | 38 55 | 52 37 | 8.8 | 38 2.3 | 38 34.2 | 37.6 | 40.9 | 44.3 | 47.7 | 38 | 40.94 | | |
| | 37 36.5 | 38.0 | 8.5 | 3.0 | | | | | + 38.26 | | + 38.48 | | |
| | κ | | | 8.6 | | | | | | | − 22 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 8.30 | | | | | | 39 | 19.20 | | |
| | $a_1$ | | | | | | | | | | − 1.90 | | |
| | | | | | | | | | | | 17.30 | | |
| | | | 9.0 | 38 9.0 | 38 33.4 | 36.9 | 40.3 | 43.6 | 47.0 | 38 | 40.24 | | |
| | κ | | | 12.7 | | | | | | | + 39.26 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 15.0 | | | | | + 38.89 | | − 20 | | |
| | $a_2$ | | | 12.23 | | | | | | 39 | − 17 | | |
| | | | | | | | | | | | 19.13 | | |
| | | | | | | | | | | | − 1.83 | | |
| | | | | | | | | | | | 17.26 | | |
| | 40 46 | 52 19 | 8.9 | 39 56.9 | 40 24.8 | 28.2 | 31.8 | 34.8 | 38.3 | 40 | 31.52 | | |
| | 39 26.8 | 18.9 | 9.0 | 0.2 | | | | | + 38.26 | | + 38.48 | | |
| | κ | | | 3.0 | | | | | | | − 22 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 0.03 | | | | | | 41 | 9.78 | | |
| | $a_1$ | | | | | | | | | | − 1.93 | | |
| | | | | | | | | | | | 7.85 | | |
| | | | 9.0 | 40 0.3 | 40 24.1 | 27.5 | 31.0 | 34.4 | 37.7 | 40 | 30.94 | | |
| | κ | | | 4.0 | | | | | | | + 39.26 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 6.3 | | | | | + 38.91 | | − 19 | | |
| | $a_2$ | | | 3.53 | | | | | | 41 | − 16 | | |
| | | | | | | | | | | | 9.85 | | |
| | | | | | | | | | | | − 1.91 | | |
| | | | | | | | | | | | 7.94 | | |
| | 42 12 | 52 40 | 8.8 | 41 25.8 | 41 49.7 | 53.1 | 56.5 | 59.8 | 3.2 | 41 | 58.46 | | |
| | 40 52.8 | 40.5 | 8.5 | 28.8 | | | | | + 38.26 | | + 38.48 | | |
| | κ | | | 31.2 | | | | | | | − 22 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 28.50 | | | | | | 42 | 34.72 | | |
| | $a_1$ | | | | | | | | | | − 1.96 | | |
| | | | | | | | | | | | 32.76 | | |
| | | | 8.7 | 41 28.9 | 41 49.0 | 53.2 | 56.8 | 59.2 | 2.7 | 41 | 55.84 | | |
| | κ | | | 28.4 | | | | | | | + 39.26 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 31.0 | | | | | + 38.89 | | − 20 | | |
| | $a_2$ | | | 28.43 | | | | | | 42 | − 17 | | |
| | | | | | | | | | | | 34.73 | | |
| | | | | | | | | | | | 1.94 | | |
| | | | | | | | | | | | 32.79 | | |
| | 46 34 | 54 47 | 9.2 | 45 43.4 | 46 14.4 | 18.1 | 21.8 | 25.3 | 28.9 | 46 | 21.70 | | |
| | 45 13.0 | 47.4 | 8.8 | 47.2 | | | | | + 38.24 | | + 38.48 | | |
| | κ | | | 49.9 | | | | | | | − 24 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 46.83 | | | | | | 46 | 59.94 | | |
| | $a_1$ | | | | | | | | | | − 2.10 | | |
| | | | | | | | | | | | 57.84 | | |
| | | | 8.9 | 45 42.4 | 46 14.0 | 17.6 | 21.3 | 24.6 | 28.3 | 46 | 21.16 | | |
| | κ | | | 46.6 | | | | | | | + 39.26 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 49.4 | | | | | + 38.88 | | − 21 | | |
| | $a_2$ | | | 46.13 | | | | | | 46 | − 17 | | |
| | | | | | | | | | | | 50.04 | | |
| | | | | | | | | | | | − 2.07 | | |
| | | | | | | | | | | 46 | 57.97 | | |

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Runs

| | $T_m - T_S$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | + 8.19 | 4 23.7 | 32.6 | 563 4 | 28.15 | 23′ | 20.20 | | 55 | 53° 25′ 17.83 | |
| | 0.91328 | 0.91328 | | 59 | | 53 25 | 26.60 | | | 20.09 | +10.98 |
| d | 9.90471 | 9.77524 | | | | | − 8.77 | | | − 12 | 20 |
| | 0.94294n | 0.81347n | | | | | − 6.51 | | | − 95 | |
| | | | | | | | | | | + 11.45 | |
| −4.85 $\delta_1$ | | | | | | | | | | + 50 | |
| +2.97 | | | 34 5.57 | 25 15.1 | | | | | | −18.20 | |
| | | | | 59 | | | | | | 25 12.87 | 12.09 |
| | − 18.8 | 4 46.6 | 57.1 | 103.7 4 | 57.85 | 22 | 56.50 | | 55 | 25 19.76 | |
| | 1.27416n | | | | | 53 25 | 5.02 | | | − 10 | +10.54 |
| d | 9.90477 | 9.77524 | | | | | + 20.15 | | | − 1.13 | 36 |
| | 1.30088 | 1.17485 | | | | | 14.94 | | | +11.27 | |
| | | | | | | | | | | + 50 | |
| −4.85 $\delta_2$ | | | | | | | | | | −18.30 | |
| +2.97 | | | 34 5.47 | 25 15.0 | | | | | | 25 12.20 | 12.02 |
| | | | | 47 | | | | | | | |
| | + 35.64 | 2 25.8 | 34.4 | 60.2 2 | 30.10 | 35 | 18.25 | | 45 | 36 46.89 | |
| | 1.55194 | 1.55194 | | | | 52 37 | 24.65 | | | 52 55.80 | +10.22 |
| d | 9.90014 | 9.78329 | | | | | − 3.76 | | | − 33 | 9.44 |
| | 1.45703n | 1.46018n | | | | | − 28.85 | | | − 53 | |
| | | | | | | | | | | +10.58 +11.65 | |
| | | | | | | | | | | + 50 | |
| −4.80 $\delta_1$ | | | | | | | | | | −18.00 | |
| +3.41 | | | 39 12.50 | 36 50.4 | | | | | | 36 46.89 | 47.04 |
| | | | | 47 | | | | | | | |
| | + 28.01 | 2 32.5 | 43.9 | 76.4 2 | 38.20 | 35 | 10.15 | | 45 | 36 48.49 | |
| | 1.44731 | 1.44731 | | | | 52 37 | 18.67 | | | 52 56.00 | +10.13 |
| d | 9.90014 | 9.78329 | | | | | − 29.68 | | | − 20 | 9.95 |
| | 1.47240n | 1.35555n | | | | | − 22.67 | | | − 60 | |
| | | | | | | | | | | +10.43 +11.48 | |
| | | | | | | | | | | + 50 | |
| −4.80 $\delta_2$ | | | | | | | | | | − 18.10 | |
| +3.41 | | | 39 12.46 | 36 51.1 | | | | | | 36 47.39 | |
| | | | | 5 | | | | | | | |
| | +31.49 | 0 3.9 | 13.5 | 17.4 0 | 8.70 | 17 | 39.65 | | 5 | 52 19 12.81 | |
| | 1.49817 | 1.49817 | | | | 52 19 | 16.05 | | | 20.39 | +10.46 |
| d | 9.89849 | 9.78609 | | | | | − 33.21 | | | − 26 | 9.68 |
| | 1.52161n | 1.40921n | | | | | − 25.66 | | | − 2 | |
| | | | | | | | | | | +10.29 | |
| | | | | | | | | | | + 45 | |
| −4.77 $\delta_1$ | | | | | | | | | | −17.50 | |
| +3.57 | | | 41 3.08 | 19 16.1 | | | | | | 19 12.35 | 12.57 |
| | | | | 5 | | | | | | | |
| | +27.41 | 0 8.3 | 20.1 | 28.40 | 14.20 | 17 | 34.15 | | 5 | 52 19 13.74 | |
| | 1.43791 | 1.43791 | | | | 52 19 | 42.67 | | | 20.34 | +10.34 |
| d | 9.89849 | 9.78609 | | | | | − 28.93 | | | − 20 | 16 |
| | 1.46135n | 1.34895n | | | | | − 22.33 | | | − 5 | |
| | | | | | | | | | | +10.14 | |
| | | | | | | | | | | + 45 | |
| −4.77 $\delta_2$ | | | | | | | | | | − 17.60 | |
| +3.57 | | | 41 3.17 | 19 16.5 | | | | | | 19 13.08 | 12.90 |
| | | | | 44 | | | | | | | |
| | +27.96 | 4 18.1 | 26.4 | 44.5 4 | 22.25 | 38 | 26.10 | | 40 | 52 40 2.85 | |
| | 1.44654 | 1.44654 | | | | 52 40 | 32.50 | | | 9.90 | +15.22 |
| d | 9.90053 | 9.78263 | | | | | − 29.65 | | | − 21 | 9.24 |
| | 1.47202n | 1.35412n | | | | | − 22.60 | | | − 92 | |
| | | | | | | | | | | +10.65 | |
| | | | | | | | | | | + 50 | |
| −4.79 $\delta_1$ | | | | | | | | | | −17.60 | |
| +3.69 | | | 42 27.97 | 40 5.2 | | | | | | 40 2.32 | 1.54 |
| | | | | 44 | | | | | | | |
| | +27.41 | 4 19.1 | 30.2 | 49.3 4 | 24.65 | 38 | 23.70 | | 40 | 52 40 3.15 | |
| | 1.43791 | 1.43791 | | | | 52 40 | 32.22 | | | 10.06 | +9.79 |
| d | 9.90053 | 9.78263 | | | | | − 29.04 | | | − 20 | 61 |
| | 1.46339n | 1.34549n | | | | | − 22.16 | | | − 101 | |
| | | | | | | | | | | +10.50 | |
| | | | | | | | | | | + 50 | |
| −4.79 $\delta_2$ | | | | | | | | | | − 17.60 | |
| +3.69 | | | 42 28.00 | 40 5.8 | | | | | | 40 2.26 | 2.07 |
| | | | | 37 | | | | | | | |
| | +34.87 | 2 21.7 | 30.4 | 52.1 2 | 26.05 | 45 | 22.30 | | 35 | 54 46 50.72 | |
| | 1.54245 | 1.54245 | | | | 54 47 | 28.70 | | | 47 1.50 | +12.66 |
| d | 9.91221 | 9.76093 | | | | | − 37.48 | | | − 31 | 11.88 |
| | 1.57961n | 1.44283n | | | | | − 26.81 | | | − 50 | |
| | | | | | | | | | | +12.92 | |
| −4.92 | | | | | | | | | | + 55 | |
| +4.07 $\delta_1$ | | | 46 52.92 | 47 0.4 | | | | | | −17.40 | |
| | | | | 37 | | | | | | 46 57.15 | 56.37 |
| | +35.03 | 2 23.1 | 33.9 | 57.0 2 | 28.50 | 45 | 19.85 | | 35 | 54 46 50.21 | |
| | 1.54444 | 1.54444 | | | | 54 47 | 28.37 | | | 47 1.44 | +12.40 |
| d | 9.91221 | 9.76093 | | | | | − 38.16 | | | − 31 | 22 |
| | 1.58160n | 1.44032n | | | | | − 26.93 | | | − 58 | |
| | | | | | | | | | | +12.74 | |
| −4.92 | | | | | | | | | | + 55 | |
| +4.07 $\delta_2$ | | | 46 53.05 | 47 0.3 | | | | | | −17.40 | |
| | | | | | | | | | | 46 56.44 | 56.26 |

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Date$_1$ = 1876, March 6 Observer Recorder

Date$_2$ = 1876, March 7 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 52 50 | 50 8 | 8.7 | 6 52 | 54 59.5 | 2.7 | 6.0 | 9.2 | 12.4 | 52 | 5.96 | | |
| | 57 [35.9] | [4.5] | 8.6 | 46.8 | | | | | | | +38.49 | | |
| | κ 5.9 | 17.3 | | 48.8 | | | | | + 38.29 | | − 20 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 50.20 | | | | | | 52 | 44.25 | | |
| | | | | 49.20 | | | | | | | −1.99 | | |
| | $a_1$ | | | | | | | | | | 42.26 | | |
| | 51 35.9 | 50 55 | 8.8 | 52 37.7 | 52 29.4 | 32.7 | 35.8 | 39.0 | 42.3 | 52 | 3584 | | |
| | κ | | | 40.5 | | | | | | | +39.26 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 43.0 | | | | | + 38.92 | | − 18 | | |
| | | | | 40.50 | | | | | | | − 16 | | |
| | $a_2$ | | | | | | | | | 53 | 14.76 | | |
| | | | | | | | | | | | −1.96 | | |
| | | | | | | | | | | | 12.80 | | |
| | 55 26 | 52 03 | 9.1 | 54 48.7 | 55 8.9 | 12.4 | 15.8 | 19.2 | 22.6 | 53 | 15.78 | | |
| | 54 [7.8] | [4.3] | 9.2 | 32.7 | | | | | | | +38.49 | | |
| | κ 11.5 | 7.9 | | 55.5 | | | | | + 38.27 | | − 22 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 52.30 | | | | | | 55 | 54.05 | | |
| | | | | | | | | | | | −2.09 | | |
| | $a_1$ | | | | | | | | | | 51.96 | | |
| | | | 9.1 | 54 05.4 | 55 8.6 | 12.0 | 15.2 | 18.6 | 21.8 | 53 | 15.24 | | |
| | κ | | | 41.4 | | | | | | | +39.27 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 43.7 | | | | | + 38.92 | | − 19 | | |
| | | | | 41.47 | | | | | | | − 16 | | |
| | $a_2$ | | | | | | | | | 55 | 54.16 | | |
| | | | | | | | | | | | −2.07 | | |
| | | | | | | | | | | | 52.09 | | |
| | 58 03 | 54 20 | 8.5 | 57 6.7 | 57 42.1 | 45.7 | 49.1 | 52.5 | 56.5 | 57 | 49.18 | | |
| | 56 [43.2] | [20.7] | 8.5 | 10.5 | | | | | | | +38.49 | | |
| | κ | | | 13.3 | | | | | + 38.25 | | − 24 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 10.17 | | | | | | 58 | 27.43 | | |
| | | | | | | | | | | | −2.12 | | |
| | $a_1$ | | | | | | | | | | 25.31 | | |
| | | | 8.1 | 57 9.6 | 57 41.5 | 48.0 | 48.5 | 52.1 | 55.6 | 57 | 4857 | | |
| | κ | | | 12.3 | | | | | | | +39.27 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 18.2 | | | | | + 38.89 | | − 21 | | |
| | | | | 12.37 | | | | | | | − 17 | | |
| | $a_2$ | | | | | | | | | 58 | 27.43 | | |
| | | | | | | | | | | | −2.09 | | |
| | | | | | | | | | | | 25.34 | | |
| | 59 07 | 54 33 | 9.0 | 58 23.6 | 58 48.8 | 49.3 | 53.0 | 56.1 | 0.1 | 58 | 52.86 | | |
| | 57 [48.2] | [34.9] | 8.4 | [35.8] | | | | | | | +38.49 | | |
| | κ | | | 26.80 [27.6] | | | | | + 38.25 | | − 24 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 59 | 37.11 | | |
| | | | | | | | | | | | −2.24 | | |
| | $a_1$ | | | | | | | | | | 28.87 | | |
| | | | 8.7 | 0 8 17.3 | 58 48.1 | 48.8 | 52.1 | 55.8 | 59.2 | 58 | 5214 | | |
| | κ | | | 21.1 | | | | | | | +39.27 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 23.1 | | | | | + 38.89 | | − 21 | | |
| | | | | 20.50 | | | | | | | − 17 | | |
| | $a_2$ | | | | | | | | | 59 | 31.03 | | |
| | | | | | | | | | | | −2.21 | | |
| | | | | | | | | | | | 28.82 | | |
| 7 6 | 0 17 | 54 35 | 8.7 | 59 23.1 | 59-56.9 | 0.4 | 3.9 | 7.6 | 11.1 | 0 | 3.98 | | |
| | 58 [56.6] | [35.9] | 8.5 | 25.9 | | | | | | | +38.49 | | |
| | κ | | | 28.8 | | | | | + 38.25 | | − 24 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 25.93 | | | | | | 0 | 42.23 | | |
| | | | | | | | | | | | − 2.25 | | |
| | $a_1$ | | | | | | | | | | 39.98 | | |
| | | | 8.4 | 59 27.6 | 59 56.4 | 59.8 | 03 | 6.9 | 10.5 | 0 | 3.38 | | |
| | κ | | | 31.1 | | | | | | | +39.27 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 34.0 | | | | | + 38.89 | | − 21 | | |
| | | | | 30.90 | | | | | | | − 17 | | |
| | $a_2$ | | | | | | | | | 0 | 42.27 | | |
| | | | | | | | | | | | − 2.23 | | |
| | | | | | | | | | | | 40.04 | | |

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Runs

| | $T_m - T_S$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +16.76 | 4 29.5 | 38.8 | 68.3 | 9 4 34.15 | 13′ | 14.20 | | 5 | 50° 16′ 3.47 | ✓ 6.31 |
| d | 1.22427 | 1.22427 | | | | 50 15 | 20.60 | | | − 8 | +7.58 |
| | 9.88584 | 9.80580 | | | | | −17.18 | | | − 97 | 6.80 |
| ((δ) − D) $\frac{d'}{100}$ | 1.23506 | 4.15502m | | | | | −14.29 | | | +8.33 | |
| | | 6 | | | | | | | | + 30 | |
| | | 38.82 | | | | | | | | −16.30 | |
| −4.64 δ₁ | | 52 46.90 | | 15 1.4 | 17 | | | | | 14 54.70 53.92 | 56.81 |
| +4.57 | | | | | | | | | | | 4.57 |
| | − 4.66 | 1 58.2 | 10.3 | 128.5 | 2 4.25 | 5 | 44.10 | | 15 | 50 7 5.739 | ✓ |
| d | 0.66839 | 0.66839m | | | | 50 4 | 50.50 | | | 56.60 | +7.41 |
| | 9.88510 | 9.80686 | | | | | 5.62 | | | − 1 | 1.38 |
| ((δ) − D) $\frac{d'}{100}$ | 0.67844 | 0.60020 | | | | | + 4.77 | | | − 46 | 5.3 |
| | | | | | | | + 3.98 | | | + 7.88 | |
| −4.64 δ₂ | | 53 8.16 | | 7 52.3 | | | | | | + 30 | |
| +4.57 | | | | | 18 | | | | | −16.40 | |
| | | | | | | | | | | 7 47.91 | 47.73 |
| | +23.48 | 3 32.9 | 40.8 | 73.7 | 3 36.85 | 4 | 18.50 | | 15 | 52 5 53.20 | |
| d | 1.37070 | 1.37070 | | | | 52 6 | 17.90 | | | 58.67 | +9.62 |
| | 9.89712 | 9.78837 | | | | | −24.70 | | | − 1/4 | 8.84 |
| ((δ) − D) $\frac{d'}{100}$ | 1.39277 | 4.28402m | | | | | −19.23 | | | − 76 | |
| | | | | | | | | | | +10.07 | |
| −4.74 δ₁ | | 55 47.22 | | 5 55.6 | | | | | | + 45 | |
| +4.82 | | | | | 18 | | | | | −16.70 | |
| | | | | | | | | | | 5 51.59 | 58.81 |
| | +34.07 | 3 23.6 | 34.8 | 58.4 | 3 29.20 | 4 | 19.15 | | 15 | 52 5 51.83 | |
| d | 1.53237 | 1.53237 | | | | 52 6 | 25.55 | | | 59.76 | +9.25 |
| | 9.89712 | 9.78837 | | | | | 27.67 | | | − 31 | 07 |
| ((δ) − D) $\frac{d'}{100}$ | 1.55444 | 4.44569m | | | | | −35.81 | | | − 81 | |
| | | | | | | | −27.91 | | | +9.92 | |
| −4.74 δ₂ | | 55 47.35 | | 5 56.8 | | | | | | + 45 | |
| +4.82 | | | | | 5 | | | | | 5 −16.80 | |
| | | | | | | | | | | 4 52.21 | 5.203 |
| | +39.01 | 4 58.5 | 4.9 | 123.4 | 5 1.70 | 17 | 46.65 | | 0 | 54 19 10.79 | |
| d | 1.59118 | 1.59118 | | | | 54 19 | 53.05 | | | 22.72 | +11.46 |
| | 9.90978 | 9.76572 | | | | | −42.26 | | | − 40 | 10.68 |
| ((δ) − D) $\frac{d'}{100}$ | 1.62912 | 4.48185m | | | | | − 30.33 | | | − 105 | |
| | | | | | | | | | | +12.41 | |
| −4.87 δ₁ | | 58 20.44 | | 19 21.2 | | | | | | + 50 | |
| +5.05 | | | | | 5 | | | | | −17.30 | |
| | | | | | | | | | | 19 16.88 | 16.10 |
| | +36.17 | 0 1.1 | 12.5 | 13.6 | 0 6.80 | 17 | 41.55 | | 5 | 54 19 10.80 | |
| d | 1.55835 | 1.55835 | | | | 54 19 | 47.95 | | | 21.95 | +12.39 |
| | 9.90978 | 9.76572 | | | | | 5.07 | | | − 35 | 21 |
| ((δ) − D) $\frac{d'}{100}$ | 1.59308 | 4.44902m | | | | | −39.18 | | | − 2 | |
| | | | | | | | − 28.12 | | | +12.26 | |
| −4.87 δ₂ | | 58 20.47 | | 19 21.8 | | | | | | + 50 | |
| +5.05 | | | | | 51 | | | | | −17.40 | |
| | | | | | | | | | | 19 16.94 | 16.76 |
| | +26.06 | 1 15.0 | 23.4 | 38.4 | 1 19.20 | 31 | 29.15 | | 50 | 54 33 7.21 | |
| d | 1.41597 | 1.41697 | | | | 54 33 | 35.55 | | | 15.41 | +12.79 |
| | 9.91105 | 9.76324 | | | | | −28.31 | | | − 18 | 01 |
| ((δ) − D) $\frac{d'}{100}$ | 1.17257 | 1.30416m | | | | | − 20.14 | | | − 27 | |
| | 1.45197m | | | | | | | | | +12.69 | |
| −4.89 δ₁ | | 59 23.98 | | 33 15.4 | | | | | | + 55 | |
| +5.13 | | | | | 51 | | | | | −17.20 | |
| | | | | | | | | | | 33 10.80 | 10.22 |
| | +31.64 | 1 11.5 | 22.1 | 33.6 | 1 16.80 | 31 | 31.55 | | 50 | 54 33 5.70 | |
| d | 1.50024 | 1.50024 | | | | 54 33 | 40.07 | | | 15.61 | +12.49 |
| | 9.91105 | 9.76324 | | | | | −34.37 | | | − 26 | 31 |
| ((δ) − D) $\frac{d'}{100}$ | 1.53624 | 4.38843m | | | | | − 24.46 | | | − 30 | |
| | | | | | | | | | | +12.50 | |
| −4.89 δ₂ | | 59 23.93 | | 33 15.8 | | | | | | + 55 | |
| +5.13 | | | | | 50 | | | | | −17.30 | |
| | | | | | | | | | | 33 10.80 | 10.62 |
| | +38.05 | 0 9.7 | 18.1 | 27.8 | 0 13.90 | 32 | 34.45 | | 50 | 54 33 5.50 | |
| d | 1.58035 | 1.58035 | | | | 54 34 | 40.85 | | | 34 11.45 | 12.83 |
| | 9.91114 | 9.76307 | | | | | −41.35 | | | − 38 | 05 |
| ((δ) − D) $\frac{d'}{100}$ | 1.61644 | 4.46837m | | | | | − 29.40 | | | − 4 | |
| | | | | | | | | | | +12.70 | |
| −4.89 δ₁ | | 0 35.09 | | 34 11.6 | | | | | | + 55 | |
| +5.23 | | | | | 50 | | | | | −17.10 | |
| | | | | | | | | | | 34 7.18 | 6.40 |
| | +32.48 | 0 14.7 | 25.6 | 40.3 | 0 20.15 | 32 | 28.20 | | 50 | 54 34 7.42 | |
| d | 1.57162 | 1.57162 | | | | 54 34 | 36.72 | | | 11.62 | +12.73 |
| | 9.91114 | 9.76307 | | | | | −35.30 | | | − 27 | 55 |
| ((δ) − D) $\frac{d'}{100}$ | 1.54471 | 4.39964m | | | | | − 25.10 | | | − 7 | |
| | | | | | | | | | | +12.52 | |
| −4.89 δ₂ | | 0 35.15 | | 34 12.2 | | | | | | + 55 | |
| +5.23 | | | | | | | | | | −17.20 | |
| | | | | | | | | | | 34 7.15 | 6.97 |

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461 462 38

Date$_1$ = 1876, March 6 Observer / Recorder

Date$_2$ = 1876, March 7 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | 1 18 | 53 59 | 9.0 | 7 0 52.0 | 0 57.2 | 0.9 | 4.5 | 7.9 | 11.5 | 1 | 4.40 | | |
| 6 | 59 58.4 | 54 0.5 | 9.0 | 53.5 | | | | | + 38.26 | | +38.49 | | |
| κ | | | | 54.5 | | | | | | | − 23 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 53.33 | | | | | | 1 | 42.66 | | |
| $\alpha_1$ | | | | | | | | | | | − 2.24 | | |
| | | | | | | | | | | | 40.42 | | |
| | | | 9.2 | 0 30.6 | 0 56.9 | 0.4 | 3.7 | 7.3 | 11.0 | 1 | 3.86 | | |
| κ | | | | 33.8 | | | | | | | +39.27 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 36.6 | | | | | + 38.89 | | − 21 | | |
| $\alpha_2$ | | | | 33.67 | | | | | | | − 17 | | |
| | | | | | | | | | | 1 | 42.75 | | |
| | | | | | | | | | | | − 2.21 | | |
| | | | | | | | | | | | 40.54 | | |
| | | | | | | | | | | | 80 | | |
| | 2 6 | 54 7 | 8.8 | 1 38.8 | 1 46.7 | 50.2 | 53.8 | 57.4 | 0.9 | 1 | 38 | | |
| κ | 0 46.2 | | 8.8 | 33.8 | | | | | | | +38.49 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 37.3 | | | | | + 38.26 | | − 23 | | |
| $\alpha_1$ | | | | 33.97 | | | | | | 2 | 32.06 | | |
| | | | | | | | | | | | − 2.25 | | |
| | | | | | | | | | | | 29.81 | | |
| | | | 8.6 | 1 38.2 | 1 46.1 | 49.6 | 53.2 | 56.8 | 0.3 | 1 | 5320 | | |
| κ | | | | 36.4 | | | | | | | +39.27 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 39.7 | | | | | + 38.89 | | − 21 | | |
| $\alpha_2$ | | | | 36.43 | | | | | | | − 17 | | |
| | | | | | | | | | | 2 | 32.09 | | |
| | | | | | | | | | | | − 2.23 | | |
| | | | | | | | | | | | 29.86 | | |
| κ | | | | | | | | | | | | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | Single Observations | | | | | | | | | |
| $\alpha_1$ | | | | | | | | | | | | | |
| March 7 | | | | | | | | | | | | | |
| 6 | 13 14 | 50 50 | 8.2 | 6 12 43.4 | 12 54.0 | 57.2 | 0.4 | 3.7 | 7.0 | 13 | 0.46 | | |
| * 11 | 59.1 | 49.8 | 7.9 | 43.40 | | | | | | | +38.47 | | |
| κ | | | | | | | | | + 38.91 | | +39.25 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | − 18 | | |
| $\alpha_2$ | | | | | | | | | | | − 16 | | |
| | | | | | | | | | | 13 | 39.37 | | |
| | | | | | | | | | | | −1.54 | | |
| | | | | | | | | | | | 37.83 | | |
| March 7 | | | | | | | | | | | | | |
| | 15 44 | 54 25 | 8.5 | 15 8.4 | 15 21.2 | 24.7 | 28.1 | 31.7 | 35.3 | 15 | 2820 | | |
| | 14 21.4 | 25.0 | 8.4 | 11.4 | | | | | | | +39.25 | | |
| κ | | | | 13.9 | | | | | | | − 21 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 11.23 | | | | | + 38.87 | | − 17 | | |
| $\alpha_1$ | | | | | | | | | | 16 | 7.07 | | |
| | | | | | | | | | | | −1.67 | | |
| | | | | | | | | | | | 5.40 | | |
| 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

| | $T_m - T_S$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +11.07 | 0 57.2 | 4.8 | 122.0 | 29 1 1.00 | 56 1 | 47.35 | | 25 | 53° 58′ 41.87 | |
| d | 1.044415 | 1.044415 | | | | 53 58 | 53.75 | | | 45.07 3 | +12.35 11.57 |
| | 9.907877 | 9.976939 | | | | | −11.94 | | | − 21 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.076 | 1.093849 | | | | | − 8.68 | | | +12.09 | |
| | | | | | | | | | | + 50 | |
| −4.84 +5.32 $\delta_1$ | | 1 35.59 | | 58 45.1 | | | | | | −16.90 | |
| | | | | | 25 | | | | | 58 40.52 | 39.74 |
| | +30.19 | 0 42.1 | 52.9 | 95.0 | 0 47.50 | 57 | 0.85 | | 25 | 53 58 36.87 | |
| d | 1.479786 | 1.479786 | | | | 53 59 | 9.37 | | | 45.70 24 | +11.99 88 |
| | 9.907877 | 9.976939 | | | | | −32.56 | | | − 18 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.512686 | 1.374210 | | | | | − 23.67 | | | +11.91 | |
| | | | | | | | | | | + 50 | |
| −4.84 +5.32 $\delta_2$ | | 1 35.70 | | 58 45.8 | | | | | | −17.00 | |
| | | | | | 17 | | | | | 58 40.69 | 40.51 |
| | +19.83 | 2 51.1 | 59.8 | 10.9 | 2 55.45 | 04 | 52.90 | | 15 | 54 6 37.88 | |
| d | 1.297732 | 1.297732 | | | | 54 6 | 59.30 | | | 43.80 10 | +12.00 11.22 |
| | 9.908600 | 9.768000 | | | | | −21.42 | | | − 61 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.330870 | 1.190270 | | | | | − 15.50 | | | +12.21 | |
| | | | | | | | | | | + 50 | |
| −4.85 +5.39 $\delta_1$ | | 2 24.96 | | 6 43.6 | | | | | | −16.80 | |
| | | | | | 17 | | | | | 6 39.00 | 38.22 |
| | +16.77 | 2 53.9 | 4.1 | 118.0 | 2 59.00 | 04 | 48.35 | | 15 | 54 6 39.75 | |
| d | 1.224533 | 1.224533 | | | | 54 6 | 57.87 | | | 44.77 7 | +11.78 60 |
| | 9.908600 | 9.768000 | | | | | −18.12 | | | − 69 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.258084 | 1.117480 | | | | | − 13.10 | | | +12.04 | |
| | | | | | | | | | | + 50 | |
| −4.85 +5.39 $\delta_2$ | | 2 25.01 | | 6 44.9 | | | | | | −16.90 | |
| | | | | | | | | | | 6 39.65 | 39.47 |
| d | | | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | | | | | 36 | | | | | | |
| | +17.06 | 1 36.9 | 50.3 | 87.2 | 1 43.60 | 46 | 4.75 | | 35 | 50 47 55.64 | |
| d | 1.231988 | 1.231988 | | | | 50 48 | 13.27 | | | 58.89 8 | + 8.43 25 |
| | 9.889274 | 9.800774 | | | | | −14.63 | | | − 39 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.246207 | 1.157677 | | | | | − 14.38 | | | + 8.55 | |
| | | | | | | | | | | + 35 | |
| −4.71 +1.18 $\delta_2$ | | 1 39.12 | | 47 50.0 | | | | | | −18.30 | |
| | | | | | 58 | | | | | 47 49.02 | 48.84 |
| | +16.97 | 3 39.9 | 51.9 | 91.8 | 3 45.90 | 24 | 2.45 | | 55 | 54 25 52.56 | |
| d | 1.229685 | 1.229685 | | | | 54 26 | 10.97 | | | 57.81 7 | +11.99 81 |
| | 9.910334 | 9.764660 | | | | | −18.41 | | | − 85 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.264962 | 1.119294 | | | | | − 13.16 | | | +12.36 | |
| | | | | | | | | | | + 65 | |
| −4.94 +1.40 $\delta_1$ | | 1 40.46 | | 25 51.6 | | | | | | −19.40 | |
| | | | | | | | | | | 25 50.22 | |
| 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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463 464 40

Date$_1$ = 1876, March 13 n = −.0~~8~~4 Observer Recorder

Date$_2$ = 1876, March 14 n = −.08 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 32 | 53 5 | 7.8 | 7 12 19.4 | 12 3.7 | 7.1 | 10.6 | 14.1 | 17.7 | 12 | 10.64 | | |
| 11 | 10.8 | 7.2 | 8.0 | 22.1 | | | | | + 41.77 | | + 41.82 | | |
| κ | | | | 24.4 | | | | | | | − 11.5 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 21.97 | | | | | | 12 | 52.41 | | |
| $c_1$ | | | | | | | | | | | − 2.15 | | |
| | | | | | | | | | | | 50.26 | | |
| | | | 7.8 | 11 34.3 | 12 3.1 | 6.7 | 10.4 | 13.6 | 17.1 | 12 | 10.18 | | |
| | | | | 38.3 | | | | | + 42.26 | | + 42.37 | | |
| κ | | | | 40.6 | | | | | | | − 11 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 37.70 | | | | | | 12 | 52.44 | | |
| $a_2$ | | | | | | | | | | | − 2.13 | | |
| | | | | | | | | | | | 50.31 | | |
| 14 | 16 | 53 53 | 9.3 | 13 35.6 | 13 34.3 | 37.7 | 41.2 | 44.6 | 48.1 | 13 | 41.18 | | |
| 12 | ~~53.7~~ | ~~55.1~~ | 9.2 | 38.4 | | | | | + 41.77 | | + 41.83 | | |
| κ | 39.0 | 50.4 | | 41.5 | | | | | | | − 11.6 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 38.50 | | | | | | 14 | 22.95 | | |
| $a_1$ | | | | | | | | | | | − 2.20 | | |
| | | | | | | | | | | | 20.75 | | |
| | | | 9.1 | 13 9.3 | 13 ~~33~~ 6 | 37.2 | 40.6 | 44.2 | 47.6 | 13 | 40.64 | | |
| | | | | 12.5 | | | | | + 42.26 | | + 42.37 | | |
| κ | | | | 16.6 | | | | | | | − 11 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 12.47 | | | | | | 14 | 23.12 | | |
| $a_2$ | | | | | | | | | | | − 2.17 | | |
| | | | | | | | | | | | 20.75 | | |
| 16 | 36 | 52 2 | 8.9 | 15 42.4 | 16 8.8 | 12.3 | 15.7 | 19.2 | 22.7 | 16 | 15.74 | | |
| 15 | 18.4 | 3.7 | 8.9 | 45.9 | | | | | + 41.78 | | + 41.83 | | |
| κ | | | | 48.1 | | | | | | | − 11 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 45.43 | | | | | | 16 | 57.52 | | |
| $a_1$ | | | | | | | | | | | − 2.19 | | |
| | | | | | | | | | | | 55.33 | | |
| | | | 8.6 | 15 38.2 | 16 8.2 | 11.7 | 15.1 | 18.6 | 22.0 | 16 | 15.12 | | |
| | | | | 41.3 | | | | | + 42.26 | | + 42.37 | | |
| κ | | | | 45.6 | | | | | | | − 11 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 41.03 | | | | | | 16 | 57.38 | | |
| $a_2$ | | | | | | | | | | | − 2.17 | | |
| | | | | | | | | | | | 55.21 | | |
| 17 | 37 | 53 45 | 9.0 | 16 52.4 | 17 ~~55.4~~ | ~~58.7~~ | 15.4 | 21.7 | 25.2 | 17 | 18.28 | | |
| 16 | 16.2 | 47.3 | 8.7 | 58.7 | 11.3 | 14.18 | | | + 41.77 | | + 41.83 | | |
| κ | | | | 58.7 | | | | | | | − 11.6 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 53.50 | | | | | | 18 | 0.05 | | |
| $a_1$ | | | | | | | | | | | − 2.24 | | |
| | | | | | | | | | | 17 | 57.81 | | |
| | | | 8.8 | 16 38.1 | 17 10.7 | 14.3 | 17.7 | 21.1 | 24.7 | 17 | 17.70 | | |
| | | | | 1.0 | | | | | + 42.26 | | + 42.37 | | |
| κ | | | | 4.2 | | | | | | | − 11 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 1.10 | | | | | | 17 | 59.96 | | |
| $a_2$ | | | | | | | | | | | − 2.21 | | |
| | | | | | | | | | | | 57.75 | | |
| 18 | 58 | 54 21 | 9.4 | 18 3.0 | 18 ~~33.2~~ | 36.1/2 | 39.8 | 43.6 | 47.2 | ~~18~~ | ~~39.50~~ | | |
| 17 | 38.1 | 22.5 | 9.2 | 7.3 | 32.7 | | | | + 41.77 | | ~~40.10~~ | | |
| κ | | | | 5.6 | | | | | | | + 41.83 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 6.53 | | | | | | 19 | 21.89 | | |
| $a_1$ | | | | | | | | | | | − 2.25 | | |
| | | | | | | | | | | | 19.39 | | |
| | | | 9.1 | 18 15.0 | 18 ~~32.3~~ | 35.8 | 39.3 | 42.9 | 46.3 | 18 | 59.32 | | |
| | | | | 20.3 | | | | | + 42.26 | | + 42.37 | | |
| κ | | | | 22.57 | | | | | | | − 11 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 19.33 | | | | | | 19 | 21.58 | | |
| $a_2$ | | | | | | | | | | | − 2.25 | | |
| | | | | | | | | | | | 19.33 | | |

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March 13 + 2′ 7.″02 −.″25 −.″01
14 + 2 7.88 45 − 25 + .20

−.01

+.20

Runs

| | $T_m - T_S$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | −11.4 | 0 42.4 | 50.1 | 92.5 | 20′ 0″.4625 | 2′ | 2.″10 | | 20 | 53 4 18.25 | |
| | V. | 1.05690m | | | | 53 4 | 9.12 | | | − 4 | +11.68 |
| d | 9.90273 | 9.77879 | | | | + | 9.13 | | | − 20 | 2 |
| | | 0.96064 | | | | | | | | +11.37 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 50 | |
| | | | | | | | | | | −16.70 | |
| −4.76 $\delta_1$ | | 12 45.50 | | 4 19.4 | | | | | | 4 13.17 | |
| +6.26 | | | | | 20 | | | | | | |
| | +32.48 | 0 8.5 | 14.9 | 23.4 | 0 11.″70 | 2 | 36.65 | | 20 | 53 4 9.91 | |
| | 1.51162 | 1.51162 | | | | 53 4 | 44.53 | 44.10 | | 18.09 | +11.69 |
| d | 9.90282 | 9.77862 | | | | | −34.62 | −26.01 | | − 27 | 89 |
| | 1.53939 | 1.41519m | | | | | 26.01 | | | − 5 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 11.61 | |
| | | | | | | | | | | + 40 | |
| −4.76 $\delta_2$ | | 12 45.55 | | 4 19.5 | | | | | | −16.70 | |
| +6.26 | | | | | 34 | | | | | 11 13.28 | |
| | +2.68 | 4 14.0 | 22.5 | 36.5 | 4 18.″25 | 48 | 30.10 | | 30 | 53 50 34.21 | |
| | 0.42813 | 0.42813 | | | | 53 50 | 37.12 | | | 35.01 | +11.67 |
| d | 9.90713 | 9.77078 | | | | 52 | 45.00 | | | − 0 | 3 |
| | 0.46021 | 0.32386m | | | | | − 2.88 | | | − 108 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | − 2.11 | | | +12.22 | |
| | | | | | | | | | | + 50 | |
| −4.81 $\delta_1$ | | 14 15.94 | | 50 36.2 | | | | | | −16.80 | |
| +6.41 | | | | | 33 | | | | | 50 29.84 | |
| | +28.17 | 8 56.3 | 1.2 | 11.5 | 3 58.″75 | 48 | 49.60 | | 30 | 53 50 27.15 | |
| | 1.44979 | 1.44979 | | | | 53 50 | 57.48 | 57.05 | | 34.89 | +11.78 |
| d | 9.90713 | 9.77078 | | | | | −30.33 | −22.16 | | − 21 | 98 |
| | 1.48187 | 1.34552m | | | | | 22.16 | | | − 100 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +12.49 | |
| | | | | | | | | | | + 50 | |
| −4.81 $\delta_2$ | | 14 15.92 | | 50 36.5 | | | | | | −16.80 | |
| +6.41 | | | | | 23 | | | | | 50 31.07 | |
| | +30.31 | 8 11.2 | 19.7 | 10.9 | 3 15.″45 | 59 | 32.90 | | 20 | 53 1 7.63 | |
| | 1.48159 | 1.48159 | | | | 53 1 | 39.92 | | | 7.40 | +10.78 |
| d | 9.90254 | 9.77913 | | | | | −32.29 | | | − 24 | 7 |
| | 1.50908 | 1.35267m | | | | | 22.52 | | | − 80 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +11.32 | |
| | | | | | | | | | | + 50 | |
| −4.75 $\delta_1$ | | 16 50.58 | | 1 18.4 | | | | | | −16.40 | |
| +6.60 | | | | | 23 | | | | | 1 11.77 | |
| | +34.09 | 8 9.9 | 16.4 | 26.3 | 3 13.″15 | 59 | 35.20 | | 20 | 53 1 6.76 | |
| | 1.53263 | 1.53263 | | | | 53 1 | 43.08 | 42.65 | | 15.32 | +10.86 |
| d | 9.90254 | 9.77913 | | | | | −36.32 | −27.33 | | − 30 | 11.06 |
| | 1.56012 | 1.43671m | | | | | 27.33 | | | − 80 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +11.56 | |
| | | | | | | | | | | + 40 | |
| −4.75 $\delta_2$ | | 16 50.46 | | 1 16.6 | | | | | | −16.40 | |
| +6.60 | | | | | 39 | | | | | 1 9.98 | |
| | +22.78 | 4 23.8 | 31.7 | 55.5 | 4 27.″75 | 43 | 20.60 | | 35 | 53 45 3.13 | |
| | 1.35755 | 1.35756 | | | | 53 45 | 27.62 | | | 9.66 | +11.34 |
| d | 9.90657 | 9.77181 | | | | | −24.49 | | | − 14 | 3 |
| | 1.38907 | 1.25431m | | | | | 17.96 | | | − 113 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +12.11 | |
| | | | | | | | | | | + 50 | |
| −4.79 $\delta_1$ | | 17 53.02 | | 45 11.1 | | | | | | −16.60 | |
| +6.68 | | | | | 39 | | | | | 45 11.39 | |
| | +16.60 | 4 29.9 | 36.6 | 66.5 | 4 33.″25 | 43 | 15.10 | | 35 | 53 45 5.13 | |
| | 1.22011 | 1.22011 | | | | 53 45 | 22.95 | 22.55 | | 9.46 | +11.63 |
| d | 9.90657 | 9.77181 | | | | | −17.85 | −13.09 | | − 7 | 83 |
| | 1.25163 | 1.11687m | | | | | 13.09 | | | − 114 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +12.39 | |
| | | | | | | | | | | + 45 | |
| −4.79 $\delta_2$ | | 17 52.96 | | 45 11.4 | | | | | | −16.60 | |
| +6.68 | | | | | | | | | | 45 11.47 | 469 |
| | +33.6 | 4 11.2 | 19.8 | 11.0 | 4 15.″50 | 18 | 32.85 | | 0 | 54 26 18.76 | |
| | 9.90987 | 1.52634 | | | | 54 20 | 39.87 | | | 53 57 52.98 | |
| d | | 2.76554 | | | | | − 26.11 | | | − 31 | +11.95 |
| | | 1.41683m | | | | | | | | − 105 | 4 |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +12.76 | |
| | | | | | | | | | | + 55 | |
| −4.82 $\delta_1$ | | 19 14.57 | | 20 15.9 | | | | | | −16.60 | |
| +6.79 | | | | | | | | | | 20 9.10 | |
| | +19.99 | 4 23.3 | 29.9 | 13.2 | 4 24.″60 | 18 | 21.75 | | 0 | 54 20 7.98 | |
| | 1.30081 | 1.30081 | | | | 54 20 | 24.63 | 29.20 | | 13.66 | + 12.39 |
| d | 9.90978 | 9.76572 | | | | | − 21.65 | − 15.54 | | − 10 | 59 |
| | 1.35554 | 1.19148m | | | | | 15.54 | | | − 110 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +13.04 | |
| | | | | | | | | | | + 55 | |
| −4.82 $\delta_2$ | | 19 14.51 | | 20 16.3 | | | | | | −16.70 | |
| +6.79 | | | | | | | | | | 20 9.55 | |

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Date$_1$ = March 13 Observer / Recorder Date$_2$ = March 14 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | 21 50 | 53 38 | 8.8 | 7 20 50.4 | 21 23.9 | 27.3 | 30.9 | 34.5 | 37.9 | 21 | 30.90 | | |
| | 20 30.2 | 54 0.1 | 9.0 | 54.7 | | | | | + 41.77 | | + 41.83 | | |
| | κ | | | 57.1 | | | | | | | − 76 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 54.07 | | | | | | 22 | 12.67 | | |
| | $a_1$ | | | | | | | | | | − 2.30 | | |
| | | | | | | | | | | | 10.37 | | |
| | | | 8.9 | 20 54.8 | 21 23.3 | 26.9 | 30.2 | 33.8 | 37.4 | 21 | 30.32 | | |
| | | | | 57.8 | | | | | + 42.26 | | + 42.37 | | |
| | κ | | | 6.3 | | | | | | | − 11 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 57.63 | | | | | | 22 | 12.58 | | |
| | $a_2$ | | | | | | | | | | − 2.27 | | |
| | | | | | | | | | | | 10.31 | | |
| | 22 56 | 54 23 | 9.0 | 22 17.8 | 22 31.7 | 35.2 | 38.6 | 42.2 | 45.8 | 22 | 38.70 | | |
| | 21 36.1 | | 8.9 | 23.3 | | | | | + 41.77 | | + 41.83 | | |
| | κ | | | 24.4 | | | | | | | − 76 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 21.60 | | | | | | 23 | 20.47 | | |
| | $a_1$ | | | | | | | | | | − 2.32 | | |
| | | | | | | | | | | | 18.15 | | |
| | | | 9.0 | 22 11.0 | 22 31.0 | 34.6 | 38.1 | 41.6 | 45.3 | 22 | 38.12 | | |
| | | | | 14.2 | | | | | + 42.26 | | + 42.37 | | |
| | κ | | | 17.2 | | | | | | | − 11 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 14.13 | | | | | | 23 | 20.38 | | |
| | $a_2$ | | | | | | | | | | − 2.29 | | |
| | | | | | | | | | | | − 12 | | |
| | | | | | | | | | | | 18.09 | | |
| | 23 56 | 54 38 | 8.4 | 23 9.4 | 23 29.9 | 33.3 | 37.0 | 40.6 | 44.2 | 23 | 37.00 | | |
| | 22 36.8 | | 8.3 | 12.9 | | | | | + 41.77 | | + 41.83 | | |
| | κ | | | 15.7 | | | | | | | − 76 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 12.87 | | | | | | 24 | 18.77 | | |
| | $a_1$ | | | | | | | | | | − 2.35 | | |
| | | | | | | | | | | | 16.42 | | |
| | | | 8.2 | 23 8.9 | 23 29.3 | 32.8 | 36.3 | 40.0 | 43.5 | 23 | 36.38 | | |
| | | | | 12.8 | | | | | + 42.26 | | + 42.37 | | |
| | κ | | | 15.1 | | | | | | | − 11 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 12.27 | | | | | | 24 | 18.64 | | |
| | $a_2$ | | | | | | | | | | − 2.32 | | |
| | | | | | | | | | | | 16.32 | | |
| | 27 44 | 53 38 | 8.6 | 27 16.2 | 27 17.2 | 20.4 | 24.0 | 27.5 | 31.0 | 27 | 24.02 | | |
| | 26 23.5 | | 8.7 | 19.2 | | | | | + 41.77 | | + 41.83 | | |
| | κ | | | 22.8 | | | | | | | − 76 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 19.40 | | | | | | 28 | 5.79 | | |
| | $a_1$ | | | | | | | | | | − 2.34 | | |
| | | | | | | | | | | | 3.45 | | |
| | | | 8.5 | 26 45.9 | 27 16.6 | 20.0 | 23.5 | 26.9 | 30.5 | 27 | 23.50 | | |
| | | | | 49.2 | | | | | + 42.26 | | + 42.37 | | |
| | κ | | | 52.3 | | | | | | | − 11 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 49.13 | | | | | | 28 | 5.76 | | |
| | $a_2$ | | | | | | | | | | − 2.31 | | |
| | | | | | | | | | | | 3.45 | | |
| | 29 12 | 53 34 | 9.0 | 28 16.2 | 28 43.9 | 47.4 | 50.7 | 54.2 | 57.6 | 28 | 50.76 | | |
| | 27 50.9 | | 8.9 | 19.1 | | | | | + 41.77 | | + 41.83 | | |
| | κ | | | 22.0 | | | | | | | − 76 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 19.10 | | | | | | 29 | 32.53 | | |
| | $a_1$ | | | | | | | | | | − 2.35 | | |
| | | | | | | | | | | | 30.18 | | |
| | | | 9.0 | 28 9.5 | 28 43.5 | 46.9 | 49.3 | 53.7 | 57.4 | 28 | 50.16 | | |
| | | | | 14.0 | | | | | + 42.26 | | + 42.37 | | |
| | κ | | | 16.6 | | | | | | | − 11 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 13.37 | | | | | | 29 | 32.42 | | |
| | $a_2$ | | | | | | | | | | − 2.33 | | |
| | | | | | | | | | | | 30.09 | | |

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Runs

| | $T_m - T_S$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +36.83 | 1 32.8 | 40.0 | 728 | 1′ 36″40 | 56′ | 11″95 | | 25 | 53° 57′ 39″26 | |
| | 1.56620 | 1.56620 | | | | 53 58 | 18.93 | | | 50.05 | +12.10 |
| d | 9.90777 | 9.76957 | | | | | −38.71 | | | − 35 | 09 |
| | 1.59892n | 1.46072n | | | | | −26.89 | | | − 40 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | + 12.35 | |
| | | | | | | | | | | + 50 | |
| −4.86 $\delta_1$ | | 22 5.51 | | 57 52.9 | | | | | | −16.30 | |
| +7.03 | | | | | | | | | | 57 45.87 | |
| | +32.69 | 1 37.8 | 44.2 | 82.0 | 1 41.00 | 56 | 7.35 | | 25 | 53 57 39.94 | |
| | 1.51441 | 1.51441 | | | | 53 58 | 4.37 | 14.80 | | 49.16 | +12.62 |
| d | 9.90787 | 9.76957 | | | | | −15.23 | −25.64 | | − 28 | |
| | 1.54223n | 1.40893n | | | | | −35.26 | | | − 42 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | −25.64 | | | +12.62 | |
| | | | | | | | | | | + 50 | |
| −4.86 $\delta_2$ | | 22 5.45 | | 57 52.4 | | | | | | −16.40 | |
| +7.03 | | | | | | | | | | 57 45.38 | |
| | +17.20 | 1 48.0 | 54.4 | 102.4 | 1 51.20 | 20 | 57.15 | | 0 | 54 22 45.53 | |
| | 1.23553 | 1.23553 | | | | 54 23 | 4.17 | | | 50.81 | +12.88 |
| d | 9.91005 | 9.76579 | | | | | −16.64 | | | − 7 | 1 |
| | 1.27053n | 1.12567n | | | | | −13.36 | | | − 47 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | +12.81 | |
| −4.81 | | | | | | | | | | + 55 | |
| +7.12 $\delta_1$ | | 23 13.34 | | 22 54.3 | | | | | | −16.40 | |
| | | | | | | | | | | 22 47.22 | |
| | +23.99 | 1 44.8 | 52.2 | 97.0 | 1 48.50 | 20 | 59.85 | | 0 | 54 22 41.73 | |
| | 1.38003 | 1.38003 | | | | 54 23 | 4.93 | 7.30 | | 48.67 | +13.05 |
| d | 9.91005 | 9.76579 | | | | | −26.07 | −18.63 | | − 15 | 25 |
| | 1.41503n | 1.27017n | | | | | −18.63 | | | − 45 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | +13.10 | |
| | | | | | | | | | | + 55 | |
| −4.81 $\delta_2$ | | 23 13.28 | | 22 52.5 | | | | | | −16.50 | |
| +7.12 | | | | | | | | | | 22 47.40 | |
| | +2433 | 1 58.3 | 5.6 | 123.9 | 2 1.95 | 3.5 20 | 46.40 | | 45 | 54 37 22 27.05 | |
| | 1.38614 | 1.38614 | | | | 54 23 | 37.42 | 53.42 | | 34.64 | +12.95 |
| d | 9.91005 | 9.76253 | | | | | −26.37 | | | − 15 | 4 |
| | 1.42114n | 1.27362n | | | | | −18.78 | | | − 50 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | +13.05 | |
| | | | | | | | | | | + 55 | |
| −4.83 $\delta_1$ | | 24 11.59 | | 37 38.4 | | | | | | −16.40 | |
| +7.20 | | | | | | | | | | 37 31.18 | |
| | +2411 | 2 0.1 | 6.9 | 7.0 | 2 3.50 | 3.5 20 | 44.86 | | 45 | 54 37 26.57 | |
| | 1.38220 | 1.38220 | | | | 54 37 | 52.43 | 52.30 | | 33.69 | +13.27 |
| d | 9.91141 | 9.76253 | | | | | −26.22 | −18.61 | | − 15 | 47 |
| | 1.41856n | 1.26968n | | | | | −18.61 | | | − 51 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | +13.38 | |
| | | | | | | | | | | + 55 | |
| −4.83 $\delta_2$ | | 24 11.49 | | 37 37.9 | | | | | | −16.50 | |
| +7.20 | | | | | | | | | | 37 30.64 | |
| | + 4.62 | 2 0.8 | 8.8 | 9.6 | 2 4.80 | 3.5 20 | 43.55 | | 45 | 53 37 45.61 | |
| | 0.66464 | 0.66464 | | | | 53 37 | 50.57 | | | 37 45.61 | +11.96 |
| d | 9.90592 | 9.77302 | | | | | − 4.96 | | | 46.92 | 5 |
| | 0.69551n | 0.56261n | | | | | −3.65 | | | − 1 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | − 53 | |
| | | | | | | | | | | +12.00 | |
| −4.75 $\delta_1$ | | 27 58.70 | | 37 50.5 | | | | | | + 50 | |
| +7.50 | | | | | | | | | | −16.90 | |
| | | | | | | | | | | 37 42.97 | |
| | +3437 | 1 38.9 | 46.4 | 85.3 | 1 42.65 | 36 | 5.70 | | 45 | 53 37 36.68 | |
| | 1.53618 | 1.53618 | | | | 53 38 | 13.55 | 13.15 | | 4 59.8 | +11.96 |
| d | 9.90592 | 9.77302 | | | | | −36.90 | −27.17 | | − 31 | 12.16 |
| | 1.56705n | 1.43415n | | | | | −27.17 | | | − 43 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | +12.25 | |
| | | | | | | | | | | + 45 | |
| −4.75 $\delta_2$ | | 27 58.70 | | 37 49.6 | | | | | | −16.00 | |
| +7.50 | | | | | | | | | | 37 42.14 | |
| | +31.66 | 0 32.8 | 41.2 | 74.0 | 0 37.00 | 32 | 11.35 | | 50 | 53 33 44.41 | |
| | 1.50051 | 1.50051 | | | | 53 34 | 18.37 | | | 53.30 | +12.02 |
| d | 9.90555 | 9.77370 | | | | | −33.46 | | | − 26 | 1 |
| | 1.53101n | 1.39916n | | | | | −25.07 | | | − 15 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | +11.93 | |
| | | | | | | | | | | + 50 | |
| −4.75 $\delta_1$ | | 29 25.43 | | 33 57.1 | | | | | | −15.80 | |
| +7.62 | | | | | | | | | | 33 49.51 | |
| | +36.79 | 0 29.9 | 36.5 | 66.4 | 0 33.20 | 32 | 15.15 | | 50 | 53 33 43.56 | |
| | 1.56573 | 1.56573 | | | | 53 34 | 23.03 | 22.60 | | 33 53.47 | +12.13 |
| d | 9.90555 | 9.77370 | | | | | −34.47 | −29.13 | | − 35 | 33 |
| | 1.59623n | 1.46438n | | | | | −29.13 | | | − 15 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | +12.18 | |
| | | | | | | | | | | + 45 | |
| −4.75 $\delta_2$ | | 29 25.34 | | 33 57.5 | | | | | | −15.90 | |
| +7.62 | | | | | | | | | | 33 49.90 | |

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Date$_1$ = March 13 Observer Recorder

Date$_2$ = March 14 Observer Recorder

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_r$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | 30 6 | 54 23 | 8.5 | 7 29 17.0 | 29 41.2 | 44.5 | 48.4 | 51.7 | 55.2 | 29 | 48.20 | | |
| | 28 46.7 | 24.6 | 8.6 | 23.4 | | | | | | | +41.83 | | |
| | κ | | | 23.2 | | | | | + 41.77 | | − N6 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 20.20 | | | | | | 30 | 29.97 | | |
| | $a_1$ | | | | | | | | | | − 2.41 | | |
| | | | | | | | | | | | 27.56 | | |
| | | | 8.7 | 29 22.0 | 29 40.7 | 44.2 | 47.8 | 51.2 | 55.7 | 29 | 47.66 | | |
| | | | | 26.4 | | | | | | | +42.37 | | |
| | κ | | | 28.4 | | | | | + 42.26 | | − 11 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 25.56 | | | | | | 30 | 29.92 | | |
| | $a_2$ | | | | | | | | | | − 2.38 | | |
| | | | | | | | | | | | 27.54 | | |
| | 49 2 | 54 25 | 9.2 | 48 42.6 | 48 56.7 | 40.2 | 43.8 | 47.3 | 50.8 | 48 | 43.76 | | |
| | 47 43.3 | 26.7 | 9.0 | 42.60 | | | | | | | +41.84 | | |
| | κ | | | | | | | | + 41.78 | | − N6 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | 49 | 25.54 | | |
| | $a_1$ | | | | | | | | | | − 2.62 | | |
| | | | | | | | | | | | 22.92 | | |
| | | | 9.1 | 48 35.1 | 48 36.3 | 39.8 | 43.4 | 46.8 | 50.4 | 48 | 43.34 | | |
| | | | | 16.0 | | | | | | | +42.38 | | |
| | κ | | | 19.0 | | | | | + 42.27 | | − 11 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 16.17 | | | | | | 49 | 25.61 | | |
| | $a_2$ | | | | | | | | | | − 2.59 | | |
| | | | | | | | | | | | 23.02 | | |
| | 50 6 | 53 48 | 9.2 | 49 43.8 | 50 7.8 | 11.3 | 14.8 | 18.1 | 21.9 | 50 | 14.78 | | |
| | ~~48~~ 46.7 | 51.3 | 9.4 | 48.6 | 11.3 | | | | | | +41.84 | | |
| | κ | | | 50.8 | | | | | + 41.78 | | − N6 | | |
| | 49 153 | | | 47.73 | | | | | | 50 | 56.56 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | − 2.59 | | |
| | $a_1$ | | | | | | | | | | 53.97 | | |
| | ~~48~~ 46.7 | | 9.1 | 49 21.0 | 49 37.9 | 40.4 | 43.7 | 47.2 | 50.7 | 49 | 43.98 | | |
| | κ | | | 33.5 | | | | | | | +42.38 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 34.0 | | | | | + 42.27 | | − 11 | | |
| | 49 153 | | 8.8 | 33.50 | 50 7.2 | 10.8 | 14.4 | 17.9 | 21.6 | 50 | 26.25 | | |
| | $a_2$ | | | 50 19.0 | | | | | | 50 | 14.38 | − 2.57 | |
| | | | | 21.9 | | | | | | | +42.38 | 23.68 | |
| | | | | 24.5 | | | | | + 42.27 | | − 11 | | |
| | | | | 21.80 | | | | | | 50 | 56.65 | | |
| | 52 43 | 54 30 | 7.5 | 51 52.2 | 52 18.6 | 22.2 | 25.7 | 29.2 | 32.8 | 52 | 25.90 | − 2.57 | |
| | 51 25.4 | 31.5 | 7.3 | 56.3 | | | | | | | +41.84 | 54.08 | |
| | κ | | | 59.5 | | | | | + 41.78 | | − N6 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 56.00 | | | | | | 53 | 7.48 | | |
| | $a_1$ | | | | | | | | | | − 2.66 | | |
| | | | | | | | | | | | 4.82 | | |
| | | | 7.0 | 52 04.7 | 52 18.1 | 21.7 | 25.2 | 25.7 | 32.3 | 52 | 25.20 | | |
| | | | | 4.2 | | | | | | | +42.38 | | |
| | κ | | | 6.7 | | | | | + 42.27 | | − 11 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 3.87 | | | | | | 53 | 7.47 | | |
| | $a_2$ | | | | | | | | | | − 2.63 | | |
| | | | | | | | | | | | 4.84 | | |
| | 53 45 | 53 33 | 8.3 | 52 59.8 | 53 18.8 | 22.2 | 25.5 | 29.1 | 32.6 | 53 | 25.64 | | |
| | 52 26.9 | 38.8 | 8.1 | 2.8 | | | | | | | +41.85 | | |
| | κ | | | 6.1 | | | | | + 41.79 | | − N6 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 2.90 | | | | | | 54 | 7.43 | | |
| | $a_1$ | | | | | | | | | | − 2.62 | | |
| | | | | | | | | | | | 4.81 | | |
| | | | 8.5 | 53 0.1 | 53 18.0 | 21.6 | 25.0 | 28.6 | 32.0 | 53 | 25.04 | | |
| | | | | 3.3 | | | | | | | +42.38 | | |
| | κ | | | 5.4 | | | | | + 42.27 | | − 11 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 2 ~~1.93~~ | | | | | | 54 | 7.31 | | |
| | $a_2$ | | | | | | | | | | − 2.59 | | |
| | | | | | | | | | | | 4.72 | | |

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Runs

| | $T_m - T_5$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +28.00 | 3 27.4 | 35.9 | 633 | 3 3165 | 19′ | 16.70 | | 0 | 54° 20′ 53.35″ | |
| | 1.44716 | 1.44716 | | | | 54 21 | 23.72 | | | 21 1.96 | +12.28 |
| d | 9.90987 | 9.76554 | | | | | −30.34 | | | − 20 | 5 |
| | 1.48198n | 1.33765n | | | | | − 21.76 | | | − 88 | |
| $((\delta) - D)\ \frac{d'}{100}$ | | | | | | | | | | +12.79 | |
| | | | | | | | | | | + 55 | |
| −4.79 | | 30 22.78 | | 21 6.0 | | | | | | −15.90 | |
| +7.70 $\delta_1$ | | | | | | | | | | 20 58.31 | |
| | +22.10 | 3 33.7 | 39.1 | 12.8 | 3 3640 | 19 | 11.95 | | 0 | 54 20 55.89 | |
| | 1.34439 | 1.34439 | | | | 54 21 | 11.83 | 19 40 | | 21 2.23 | +12.58 |
| d | 9.90987 | 9.76554 | | | | | −23.94 | −17.17 | | − 13 | 78 |
| | 1.37921n | 1.23488n | | | | | | | | − 90 | |
| $((\delta) - D)\ \frac{d'}{100}$ | | | | | | | | | | +13.06 | |
| | | | | | | | | | | + 55 | |
| −4.78 | | 30 22.75 | | 21 6.7 | | | | | | −16.80 | |
| +7.70 $\delta_2$ | | | | | | | | | | 20 59.01 | |
| | | 1 13.1 | 22.2 | 35.3 | 1 1765 | 21 | 30.70 | | 0 | 54 23 36.79 | |
| | | +1.2 | | | | 54 23 | 37.72 | | | 57 52.98 | |
| d | | 0.07918 | | | | | − 0.93 | | | − 0 | +13.08 |
| | | 9.76537 | | | | | | | | − 33 | 1 |
| $((\delta) - D)\ \frac{d'}{100}$ | | 9.76950n | | | | | | | | +12.80 | |
| | | | | | | | | | | + 55 | |
| −4.73 | | 49 18.19 | | 23 44.4 | | | | | | −14.60 | |
| +9.20 $\delta_1$ | | | | | | | | | | 23 35.20 | |
| | +27.17 | 0 52.5 | 59.9 | 12.4 | 0 5620 | 21 | 52.15 | | 0 | 54 23 30.57 | |
| | 1.43409 | 1.43409 | | | | 54 21 | 0.03 | 23 59.60 | | 38.46 | +13.26 |
| d | 9.91014 | 9.76537 | | | | | −29.46 | −21.11 | | − 19 | 46 |
| | 1.46918n | 1.32441n | | | | | | | | − 22 | |
| $((\delta) - D)\ \frac{d'}{100}$ | | | | | | | | | | +1312 | |
| | | | | | | | | | | + 55 | |
| −4.73 | | 49 18.29 | | 23 46.4 | | | | | | −14.70 | |
| +9.20 $\delta_2$ | | | | | 37 | | | | | 23 37.25 | |
| | +27.05 | 2 30.9 | 38.7 | 9.6 | 2 3480 | 45 | 13.55 | | 35 | 53 46 51.67 | |
| | 1.43217 | 1.43217 | | | | 53 47 | 20.57 | | | 59.26 | +11.88 |
| d | 9.90646 | 9.77147 | | | | | −29.10 | | | − 19 | 2 |
| | 1.46388n | 1.32859n | | | | | − 21.31 | | | − 65 | |
| $((\delta) - D)\ \frac{d'}{100}$ | | | | | | | | | | +12.17 | |
| −4.69 | | | | | | | | | | + 50 | |
| +9.29 $\delta_1$ | | 50 49.28 | | 47 6.0 | | | | | | −14.40 | |
| | | | | | 36 | | | | | 46 56.68 | |
| | +10.48 | 1 45.3 | 53.5 | 98.8 | 1 4940 | 45 | 58.95 | | 35 | 53 47 55.75 | 58.15 46 58.45 |
| | 1.02036 | 1.02036 | | | | 53 48 | 6.83 | 6.40 | | 58.15 | − 3 + 12.42 − 2 +12.42 |
| d | 9.90685 | 9.77139 | | | | | −11.28 | −8.25 | | | − 45 62 − 76 32 |
| | 1.05216n | 0.91661n | | | 38 | | | | | | +12.45 +12.45 |
| −4.69 $((\delta) - D)\ \frac{d'}{100}$ | −4.42 | 3 0.0 | 6.4 | 6.4 | 3 320 | 44 | 45.15 | 2 | 35 | 53 47 01.01 | + 45 + 45 |
| +9.29 | 0.87040n | 0.87040n | | | | 53 46 | 53.03 | 52.60 | | 59.45 | −14.50 −14.50 |
| $\delta_2$ | 9.90676 | 9.77147 | 50 18.99 | 48 5.6 | | | + 7.98 | + 5.85 | | | 47 45.27 46 56.27 |
| −4.69 | 0.90211 | 0.76682 | 49.39 | 47 56.5.5 | | | | | | | 56.27 |
| +9.29 | + 29.70 | 1 10.0 | 19.4 | 9.4 | 1 1470 | 26 | 33.65 | | 55 | 54 28 81.11 | |
| | 1.47276 | 1.47276 | | | | 54 28 | 40.67 | | | 17.66 | +12.98 |
| d | 9.91060 | 9.76413 | | | | | −32.23 | | | − 23 | 3 |
| | 1.50831n | 1.36184n | | | | | − 23.01 | | | − 30 | |
| $((\delta) - D)\ \frac{d'}{100}$ | | 0.10 | | | | | | | | +12.92 | |
| −4.72 | | | | | | | | | | + 55 | |
| +9.49 $\delta_1$ | | 53 9.54 | | 28 25.7 | | | | | | −14.40 | |
| | | | | | 56 | | | | | 28 16.19 | |
| | +21 33 | 1 17.9 | 26.3 | 44.2 | 1 2210 | 26 | 26.25 | | 55 | 54 28 10.98 | |
| | 1.32899 | 1.32899 | | | | 54 28 | 34.13 | 33 70 | | 17.18 | +13.29 |
| d | 9.91060 | 9.76413 | | | | | −23.15 | −16.52 | | − 11 | 49 |
| | 1.36454n | 1.21807n | | | | | | | | − 35 | |
| $((\delta) - D)\ \frac{d'}{100}$ | | 0.12 | | | | | | | | +13.20 | |
| −4.72 | | | | | | | | | | + 55 | |
| +9.49 $\delta_2$ | | 53 9.56 | | 28 25.7 | | | | | | −14.50 | |
| | | | | | 51 | | | | | 28 16.17 | |
| | +22.74 | 1 30.1 | 38.1 | 8.2 | 1 3410 | 31 | 14.25 | | 50 | 53 32 56.88 | |
| | 1.35679 | 1.35679 | | | | 53 33 | 21.27 | | | 33 3.26 | +11.88 |
| d | 9.90546 | 9.77387 | | | | | −24.34 | | | − 14 | 7 |
| | 1.38720n | 1.25561n | | | | | − 18.01 | | | − 40 | |
| $((\delta) - D)\ \frac{d'}{100}$ | | 0.15 | | | | | | | | +11.92 | |
| −4.66 | | | | | | | | | | + 50 | |
| +9.57 $\delta_1$ | | 54 9.47 | | 33 10.6 | | | | | | −14.10 | |
| | | | | | 51 | | | | | 33 1.03 | |
| | +22.11 | 1 31.4 | 38.5 | 9.9 | 1 3495 | 31 | 13.40 | | 50 | 53 32 57.57 | |
| | 1.34459 | 1.34459 | | | | 53 33 | 21.25 | 20 85 | | 33 3.33 | + 12.18 |
| d | 9.90546 | 9.77387 | | | | | −23.71 | −17.52 | | − 13 | 30 |
| | 1.37500n | 1.24346n | | | | | | | | − 40 | |
| $((\delta) - D)\ \frac{d'}{100}$ | | 0.06 | | | | | | | | +12.18 | |
| −4.66 | | | | | | | | | | + 45 | |
| +9.57 $\delta_2$ | | 54 9.38 | | 33 11.0 | | | | | | −14.20 | |
| | | | | | | | | | | 33 1.43 | |

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Date$_1$ = March 13 Observer / Recorder

Date$_2$ = March 14 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 88 | 10 22 | 53 35 | 7.8 | 8 9 26.6 | 9 55.7 | 58.6 | 2.0 | 5.5 | 9.0 | 10 | m s 20.2 | | |
| | 9 4.3 | 38.7 | 7.7 | 29.6 | | | | | | | +41.85 | | |
| κ | | | | 32.6 | | | | | + 41.79 | | − 11.6 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 29.57 | | | | | | 10 | 43.81 | | |
| | | | | | | | | | | | − 2.78 | | |
| $a_1$ | | | | | | | | | | | 41.03 | | |
| | | | 8.0 | 9 49.3 | 9 57.5 | 57.9 | 1.4 | 5.0 | 8.7 | 10 | 1.44 | | |
| | | | | 51.9 | | | | | | | +42.38 | | |
| κ | | | | 54.9 | | | | | + 42.27 | | − 11 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 52.08 | | | | | | 10 | 43.71 | | |
| | | | | | | | | | | | − 2.76 | | |
| $a_2$ | | | | | | | | | | | 40.95 | | |
| | 12 17 | 52 59 | 9.0 | 11 11.8 | 11 57.0 | 57.6 | 58.1 | 1.3 | 5.0 | 11 | 58.00 | | |
| | 10 59.4 | 53 1.6 | 9.1 | 14.6 | | | | | | | +41.86 | | |
| κ | | | | 17.4 | | | | | + 41.81 | | − 11.6 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 14.50 | | | | | | 12 | 39.81 | | |
| | | | | | | | | | | | − 2.76 | | |
| $a_1$ | | | | | | | | | | | 37.05 | | |
| | | | 9.0 | 11 29.0 | 11 57.5 | 57.0 | 57.4 | 1.0 | 4.3 | 11 | 57.44 | | |
| | | | | 32.5 | | | | | | | +42.38 | | |
| κ | | | | 36.0 | | | | | + 42.28 | | − 10 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 32.50 | | | | | | 12 | 39.72 | | |
| | | | | | | | | | | | − 2.74 | | |
| $a_2$ | | | | | | | | | | | 36.98 | | |
| | 13 30 | 53 0 | 9.1 | 12 35.9 | 12 59.5 | 3.6 | 6.7 | 10.1 | 13.5 | 13 | 6.72 | | |
| | 12 11.9 | 2.3 | 9.4 | 38.0 | | | | | | | +41.86 | | |
| κ | | | | 41.0 | | | | | + 41.81 | | − 11.5 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | 38.30 | | | | | | 13 | 48.53 | | |
| | | | | | | | | | | | − 2.77 | | |
| $a_1$ | | | | | | | | | | | 45.76 | | |
| | | | 9.2 | 13 7.6 | 12 59.3 | 2.8 | 6.3 | 9.6 | 13.0 | 13 | 6.20 | | |
| | | | | 9.60 | | | | | | | +42.38 | | |
| κ | | | | | | | | | + 42.27 | | − 11 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | 9.5 | 12 44.3 | 13 8.3 | 11.1 | 14.5 | 18.1 | 21.6 | 13 | 48.47 | −2.75 | 45.72 |
| | | | | 47.4 | | | | | | 13 | 1472 | | |
| $a_2$ | | | | 5.0.7 | | | | | + 42.27 | | +42.38 | | |
| | | | | 47.07 | | | | | | | − 11 | | |
| | | | | | | | | | | 13 | 56.99 | −2.75 | 54.24 |
| 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

| | $T_m - T_S$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z' | δ' |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +32.45 | 4 28.7 | 86.1 | 64.8 | 49. 4 3240 | 33' | 15.95 | | 45 | 53° 34' 48.15 | |
| | 1.51121 | 1.51121 | | | | 53 35 | 22.97 | | | 57.29 | +11.04 |
| d | 9.90565 | 9.77353 | | | | | -34.82 | | | - 27 | 3 |
| | 1.54181 | 1.40969n | | | | | -25.68 | | | - 115 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | +11.96 | |
| | | | | | | | | | | + 50 | |
| -4.60 | | | | | | | | | | -12.80 | |
| +10.82 $\delta_1$ | | 10 36.43 | | 35 6.3 | | | | | | 34 5553 | |
| | | | | | 49 | | | | | | |
| | +9.41 | 4 47.6 | 55.7 | 103.3 | 4 5165 | 32 | 56.70 | | 45 | 53 34 54.48 | |
| | 097356 | 0.97359 | | | | 53 35 | 1.12 58 | 4.15 | | 56.70 | +11.44 |
| d | 9.90565 | 9.77353 | | | | | -10.10 | 7.45 | | - 2 | 64 |
| | 1.00419n | 0.87207n | | | | | | | | - 121 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | +12.22 | |
| | | | | | | | | | | + 45 | |
| -4.60 | | | | | | | | | | -12.90 | |
| +10.82 $\delta_2$ | | 10 36.35 | | 35 6.3 | | | | | | 34 5544 | |
| | | | | | 26 | | | | | | |
| | +4350 | 1 45.0 | 53.7 | 98.7 | 1 4935 | 55 | 59.10 | | 25 | 52 57 10.72 | |
| | 1.63849 | 1.63849 | | | | 52 58 | 6.02 | | | 31.09 | +10.83 |
| d | 9.90216 | 9.77980 | | | | | -46.30 | | | - 50 | 2 |
| | 1.66560n | 1.54324n | | | | | - 34.93 | | | - 45 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | +11.28 | |
| | | | | | | | | | | + 50 | |
| -4.56 | | | | | | | | | | -12.50 | |
| +10.96 $\delta_1$ | | 12 32.49 | | 57 40.4 | | | | | | 57 2941 | |
| | | | | | 27 | | | | | | |
| | +24.94 | 2 1.4 | 7.8 | 92.2 | 4.60 | 55 | 43.75 | | 25 | 52 57 25.08 | |
| | 1.39690 | 1.39690 | | | | 52 57 | 51.63 | 51.20 | | 31.17 | +11.25 |
| d | 9.90216 | 9.77980 | | | | | -26.55 | -20.03 | | - 16 | 45 |
| | 1.42401n | 1.30165n | | | | | -20.03 | | | - 53 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | +11.54 | |
| | | | | | | | | | | + 40 | |
| -4.56 | | | | | | | | | | -12.60 | |
| +10.96 $\delta_2$ | | 12 32.42 | | 57 41.0 | | | | | | 57 3002 | |
| | | | | | 25 | | | | | | |
| | +28.42 | 0 55.8 | 3.9 | 119.7 | 0 5985 | 56 | 18.50 | | 25 | 52 58 25.26 | |
| | 1.45362 | 1.45362 | | | | 52 58 | 55.52 | | | 32.77 | +11.35 |
| d | 9.90225 | 9.77963 | | | | | -30.26 | | | - 21 | 4 |
| | 1.48082n | 1.35820n | | | | | -22.81 | | | - 25 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | +11.31 | |
| | | | | | | | | | | + 50 | |
| -4.55 | | | | | | | | | | -12.40 | |
| +11.04 $\delta_1$ | | 13 41.21 | | 58 42.7 | | | | | | 58 3.65 | |
| | | | | | 26 | | | | | | |
| | - 1.40 | 1 20.4 | 27.6 | 8.0 | 1 2400 | 56 | 24.35 | | 25 | 52 58 33.72 | 32.92 58 9.92 |
| | 0.14613n | 0.14613n | | | | 52 58 | 32.23 | 31.80 | | 32.92 | - 0+11.54 - 20 +11.39 |
| d | 9.90225 | 9.77963 | | | | | + 1.49 | + 1.12 | | - 35 | 79 - 35 59 |
| | 0.17333n | 0.05071 | | | | | | | | +11.54 | +11.54 |
| $((\delta) - D)\frac{d'}{100}$ | +27.25 | | | | | 56 | 24.35 | 31.80 | 52 58 | 3.22 | + 40 + 40 |
| -4.55 | 1.43537 | 1.43537 | 13 | | | 52 58 | 32.23 | - 21.88 | | 9.92 | -12.50 -12.50 |
| +11.04 $\delta_2$ | 9.90225 | 9.77963 | 31 | 41.17 | 58 43.25 | | -29.01 | | | 58 32.91 | 58 9.01 |
| | 1.46254 | 1.33995n | | | | | | | | | |
| 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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1876phae.proj.16600R



Date$_1$ = March 19, 1876 $n = +.02$ $C = -.06$ Observer W.A.R. Recorder J.F.M.

Date$_2$ = 1876, Apr. 2 $n = -.22$ Observer W.A.R. Recorder J.F.M.

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | 23 22 | 56 35.8 | 54 38 39.8 | 8.4 8.3 | 1 22 57.7 0.6 8.4 0.57 | 23 27.4 | 31.0 | 34.5 | 38.1 | 41.7 +0 44.06 | 23 84454 +44.13 1 + 3 − 10 +.019 | | Add +.019 to (ΔT+m) Mar 19 M has been added to sum of the constants and to final R.A |
| | | | | | | | | | | | 24 18.60 − 2.18 16.42 | 16.42 | |
| | | | 8.8 | 22 49.3 32.7 36.0 32.67 | 23 18.4 | 23.0 | 26.6 | 30.3 | 33.7 +0 57.56 | | 23 2660 +51.86 5 − 31 +.020 | | Add +.020 to (ΔT+m) Apr 2 M has been added to sum of the constants and to final R.A |
| | | | | | | | | | | | 24 18.15 − 1.79 16.35 7 | | |
| | 26 25 | 50 24.6 | 54 37 54 42.0 | 7.7 7.9 | 25 38.6 56.5 57.0 55.83 | 26 21.9 | 25.5 | 29.0 | 32.4 +0 44.06 | 36.1 | 26 28.98 +44.13 1 + 3 − 10 | | |
| | | | | | | | | | | | 27 13.04 − 2.22 10.82 2 | | |
| | | | 8.3 | 26 20 5.0 7.8 4.93 | 26 13.9 | 17.4 | 21.0 | 24.6 | 28.2 +0 51.56 | | 26 2102 +51.86 5 − 31 | | |
| | | | | | | | | | | | 27 12.57 − 1.82 10.74 6 | | |
| | 28 27 | 30 13.8 | 52 8 10.2 | 8.0 7.7 | 27 41.4 44.0 47.0 44.13 | 28 2.9 | 6.2 | 9.4 | 12.8 | 16.2 +0 44.06 | 28 9.50 +44.13 1 + 3 − 10 | | |
| | | | | | | | | | | | 28 53.56 − 2.14 51.42 2 | | |
| | | | 8.0 | 27 34.3 38.5 40.4 37.73 | 27 53.0 | 58.3 | 1.6 | 5.0 | 8.3 +0 51.59 | | 28 1.64 +51.86 5 − 28 | | |
| | | | | | | | | | | | 28 53.22 − 1.76 51.45 7 | | |
| | 29 27 | 2 42.0 | 54 11 12.8 | 6.7 7.0 | 28 31.6 34.3 37.7 34.53 | 28 33.4 | 37.0 | 40.3 | 44.0 | 47.5 +0 44.06 | 28 4044 +44.13 1 + 3 − 10 | | |
| | | | | | | | | | | | 29 24.50 − 2.23 22.28 7 | | |
| | | | 6.0 | 28 34.8 37.1 40.5 37.47 | 28 23.5 | 29.0 | 32.6 | 36.0 | 39.6 +0 51.57 | | 28 32.54 +51.86 5 − 30 | | |
| | | | | | | | | | | | 29 24.10 − 1.84 22.25 7 | | |
| | 48 47 | 27 +1.0 114 | 51 32 43.2 43.9 | 8.3 9.5 | 47 51.8 54.0 56.7 54.17 | 47 58.4 | 1.7 | 5.0 | 8.3 | 11.7 +0 44.07 | 48 502 +44.13 2 + 3 − 10 | | |
| | | | | | | | | | | | 48 49.09 − 2.32 46.77 | 46.77 | |
| | | | 8.5 | 47 46.7 46.70 | 47 50.5 | 53.7 | 57.0 | 0.5 | 3.7 +0 57.60 | | 47 57.08 +51.86 − 28 | | |
| | | | | | | | | | | | 48 48.66 − 1.96 46.70 2 | | |

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March 19 + 2′ 8.″08 −.″27 −.″18
April 2 + 2 7.98 −.29 −.16

−.18
−.16



Runs

| | $T_m - T_S$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +33.97 | 1 52.7 | 0.2 | 112.9 | 46′ 56.″45 | 35′ | 51.″90 | | 45 | 54° 37′ 23.″04 | |
| 1.53110 | ~~+14.520~~ | 1.53110 | | | | 54 37 | 59.98 | | | 33.76 | +13.25 |
| d | 9.91141 | 9.76253 | | | | | − ~~36.94~~ | | | − 30 | 07 |
| | +18156 | 1.41858n | | | | | − 26.22 | | | − 51 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.56746n | | | | | | | | | +13.56 | |
| | | | | | | | | | | + 50 | |
| −4.83 | | | | | | | | | | −17.00 | |
| +7.20 $\delta_1$ | | 24 11.59 | | 37 37.0 | | | | | | 37 29.83 | |
| | | | | | 46 | | | | | | |
| | +33.93 | 1 47.5 | 59.9 | 107.4 | 1 53.70 | 35 | 51.45 | | 45 | 54 37 25.74 | |
| 1.53058 | 1.53058 | | | | | 54 38 | 2.03 | | | 36.44 | +12.44 |
| d | 9.91141 | 9.76253 | | | | | − ~~36.89~~ | | | − 30 | 28 |
| | 1.56694n | 1.41806n | | | | | − 26.19 | | | − 55 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +12.84 | |
| | | | | | | | | | | + 45 | |
| −4.83 | | | | | | | | | | −17.90 | |
| +7.20 $\delta_2$ | | 24 11.54 | | 37 38.0 | | | | | | 37 30.82 | |
| | | | | | 45 | | | | | | |
| | +33.15 | 4 57.7 | 4.3 | 122.0 | 5 1.00 | 37 | 47.35 | | 40 | 54 39 ~~19.34~~ | |
| 1.52048 | 1.52048 | | | | | 54 39 | 55.43 | | | 29.84 | +12.47 |
| d | 9.91158 | 9.76218 | | | | | − 36.06 | | | − 28 | 29 |
| | 1.55701n | 1.40761n | | | | | − 25.56 | | | − 135 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +13.60 | |
| | | | | | | | | | | + 50 | |
| −4.82 | | | | | | | | | | −16.80 | |
| +7.44 $\delta_1$ | | 27 6.00 | | 39 32.8 | | | | | | 39 25.36 | |
| | | | | | 45 | | | | | | |
| | + 16.09 | 0 6.7 | 20.2 | 26.9 | 0 13.45 | 37 | 34.90 | | 45 | 54 39 ~~25.38~~ | |
| 1.20656 | 1.20656 | | | | | 54 39 | ~~42.98~~ | | | 30.47 | +13.20 |
| d | 9.91158 | 9.76218 | | | | | 42.88 | | | − 7 | 04 |
| | 1.24309n | 1.09369n | | | | | − ~~17.50~~ | | | − 6 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | − 12.41 | | | +12.88 | |
| | | | | | | | | | | + 45 | |
| −4.82 | | | | | | | | | | −17.80 | |
| +7.44 $\delta_2$ | | 27 5.94 | | 39 33.2 | | | | | | 39 25.71 | |
| | | | | | 14 | | | | | | |
| | +25.37 | 0 25.9 | 34.1 | 60.0 | 0 30.00 | 7 | 18.35 | | 15 | 52 ~~48 50.70~~ | |
| 1.40432 | 1.40432 | | | | | 52 9 | 26.43 | | | 9 5.67 | +10.86 |
| d | 9.89742 | 9.78788 | | | | | − ~~26.73~~ | | | − 17 | 68 |
| | 1.42669n | 1.31715n | | | | | − 20.76 | | | − 14 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +10.77 | |
| | | | | | | | | | | + 40 | |
| −4.66 | | | | | | | | | | −16.00 | |
| +7.57 $\delta_1$ | | 27 ~~8~~ 46.76 | | 9 7.9 | | | | | | 9 0.35 | |
| | | | | | 15 | | | | | | |
| | +23.91 | 0 23.8 | 36.8 | 60.6 | 0 30.30 | 7 | 18.05 | | 15 | 52 9 ~~0.86~~ | |
| 1.37858 | 1.37858 | | | | | 52 9 | 26.03 | | | 6.47 | +10.23 |
| d | 9.89742 | 9.78788 | | | | | − ~~25.17~~ | | | − 15 | 07 |
| | 1.40095n | 1.29141n | | | | | − 19.56 | | | − 15 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +10.18 | |
| | | | | | | | | | | + 35 | |
| −4.66 | | | | | | | | | | −16.90 | |
| +7.57 $\delta_2$ | | 28 46.81 | | 9 7.2 | | | | | | 8 59.64 | |
| | | | | | 14 | | | | | | |
| | + 5.91 | 3 58.0 | 4.9 | 122.9 | 4 1.45 | 8 | 46.90 | | 10 | 54 10 ~~48.57~~ | |
| 0.77159 | 0.77159 | | | | | 54 10 | ~~54.98~~ | | | 50.37 | +12.48 |
| d | 9.90896 | 9.76730 | | | | | − ~~6.39~~ | | | − 1 | 30 |
| | 0.80550n | 0.66384n | | | | | − 4.61 | | | − 108 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +13.07 | |
| | | | | | | | | | | + 50 | |
| −4.78 | | | | | | | | | | −16.50 | |
| +7.62 $\delta_1$ | | 29 17.49 | | 10 53.8 | | | | | | 10 46.37 | |
| | − 5.13 | — — | — | | | | | | — | | |
| | 0.71012n | | | | | | | | | | |
| d | | | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| −4.78 | | | | | | | | | | −17.50 | |
| $\delta_2$ | | 29 17.49 | | | | | | | | | |
| | | | | | 43 | | | | | | |
| | ~~−19.15~~ | 3 53.5 | 0.9 | 114.4 | 3 57.20 | 38 | 51.15 | | 40 | 51 40 ~~47.85~~ | |
| 1.03543 | 1.03543 | | | | | 54 40 | 59.23 | | | 50.26 | +9.54 |
| d | 9.89554 | 9.79240 | | | | | − ~~11.38~~ | | | − 3 | 36 |
| | 1.71201 | 0.95278n | | | | | − 8.97 | | | − 108 | |
| ((δ) − D) $\frac{d'}{100}$ | +10.85 | | | | | | | | | +10.25 | |
| | 1.03543 | | | | | | | | | + 40 | |
| | 9.89554 | | | | | | | | | | |
| −4.58 | 1.05592n | | | | | | | | | −14.70 | |
| +9.16 $\delta_1$ | | 48 42.19 | | 40 54.1 | | | | | | 40 44.92 | |
| | | | | | 43 | | | | | | |
| | +10.38 | 3 51.6 | 4.6 | 116.2 | 3 58.10 | 38 | 50.25 | | 40 | 51 40 ~~47.34~~ | |
| 1.01620 | 1.01620 | | | | | 57 40 | ~~58.23~~ | | | 49.65 | + 8.86 |
| d | 9.89465 | 9.79240 | | | | | − ~~10.86~~ | | | − 3 | 70 |
| | 1.03580n | 0.93355n | | | | | − ~~8.58~~ | | | − 116 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 9.80 | |
| | | | | | | | | | | + 35 | |
| −4.58 | | | | | | | | | | −15.90 | |
| +9.16 $\delta_2$ | | 48 42.14 | | 40 51.6 | | | | | | 40 40.45 | |

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Date$_1$ = 1876 March 19 Observer Recorder

Date$_2$ = 1876. Apr. 2 Observer Recorder

| Star. | α | δ | Mag. | $T_g$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | 49 34 54 41 | | 9.0 | 7 48 54.6 | 49 6.6 | 10.6 | 14.0 | 17.4 | 21.0 | 49 | 13.92 | | |
| | 48 14.8 42.8 | | 9.0 | 57.8 | 5.1 | | | | | | +44.14 | 2 | |
| | κ | | | 0.8 | | | | | 44.07 | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 57.73 | | | | | + 46.56 | | − 10 | | |
| | $a_1$ | | | | | | | | | 49 | 57.99 | | |
| | | | | | | | | | | | − 2.49 | | |
| | | | | | | | | | | | 55.48 | 50 | |
| | | | 8.8 | 49 1.3 | 48 58.6 | 2.2 | 5.9 | 9.4 | 12.8 | 49 | 57.78 | | |
| | | | | 4.6 | | | | | 51.57 | | +57.876 | | |
| | κ | | | 8.0 | | | | | + 83.66 | | − 31 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 4.63 | | | | | | 49 | 57.34 | | |
| | $a_2$ | | | | | | | | | | − 2.10 | | |
| | | | | | | | | | | | 55.285 | | |
| | 51 2 53 20 | | 9.0 | 50 8.7 | 50 31.6 | 35.1 | 38.5 | 42.0 | 46.5 | 50 | 38.54 | | |
| | 49 42.7 22.9 | | 9.1 | 12.2 | | | | | | | +44.14 | 2 | |
| | κ | | | 15.7 | | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 12.0.0 | | | | | + 44.07 | | − 10 | | |
| | $a_1$ | | | | | | | | | 51 | 22.61 | | |
| | | | | | | | | | | | − 2.43 | | |
| | | | | | | | | | | | 20.168 | | |
| | | | 9.0 | 49 58.0 | 50 23.5 | 27.1 | 30.5 | 34.0 | 37.4 | 50 | 30.50 | | |
| | | | | 2.0 | | | | | | | +51.886 | | |
| | κ | | | 5.4 | | | | | + 51.58 | | − 30 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 2.13 | | | | | | 51 | 22.07 | | |
| | $a_2$ | | | | | | | | | | − 2.06 | | |
| | | | | | | | | | | | 20.012 | | |
| | 53 28 53 51 | | 9.1 | 52 29.7 | 52 39.6 | 3.2 | 6.7 | 10.1 | 13.7 | 53 | 6.66 | | |
| | 52 9.3 83.7 | | 9.3 | 32.8 | | | | | | | +44.14 | 2 | |
| | κ | | | 35.4 | | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 32.63 | | | | | + 44.07 | | − 10 | | |
| | $a_1$ | | | | | | | | | 53 | 50.73 | | |
| | | | | | | | | | | | − 2.49 | | |
| | | | | | | | | | | | 48.224 | | |
| | | | 9.2 | 52 18.7 | 52 51.7 | 55.1 | 58.6 | 2.1 | 5.7 | 52 | 58.64 | | |
| | | | | 21.5 | | | | | | | +51.886 | | |
| | κ | | | 25.0 | | | | | + 51.58 | | − 30 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 21.73 | | | | | | 53 | 50.21 | | |
| | $a_2$ | | | | | | | | | | − 2.181 | | |
| | | | | | | | | | | | 48.0311 | | |
| 8 | 10 22 51 40 | | 8.4 | 8 9 31.4 | 9 42.0 | 45.3 | 48.7 | 51.7 | 55.2 | 9 | 48.58 | | |
| | 9. 12.7 48.2 | | 8.0 | 34.9 | | | | | | | +44.13 | 3 | |
| | κ | | | 37.4 | | | | | | | + 3 | | |
| | 8 55.7 34.4 | | | 34.57 | | | | | + 44.08 | | − 10 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | 10 | 32.66 | | |
| | $a_1$ | | | | | | | | | | − 2.53 | | |
| | | | | | | | | | | | 30.143 | | |
| | | | 8.6 | 9 29.6 | 9 34.0 | 37.3 | 40.7 | 44.0 | 47.3 | 9 | 40.66 | | |
| | | | | 32.6 | | | | | | | +51.887 | | |
| | κ | | | 35.3 | | | | | + 51.61 | | − 28 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 32.47 | | | | | | 10 | 32.26 | | |
| | $a_2$ | | | | | | | | | | − 2.19 | | |
| | | | | | | | | | | | 30.068 | | |
| | 13 13 49 50 | | 9.1 | 12 15.0 | 12 46.8 | 50.1 | 53.3 | 56.5 | 59.8 | 12 | 53.30 | | |
| | 12 2.5 49 52.7 | | 9.2 | 18.0 | | | | | | | +44.13 | 3 | |
| | κ | | | 21.1 | | | | | | | + 2 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 18.03 | | | | | + 44.08 | | − 9 | | |
| | $a_1$ | | | | | | | | − | 13 | 37.38 | | |
| | | | | | | | | | | | − 2.47 | | |
| | | | | | | | | | | | 34.8991 | | |
| | | | 9.3 | 12 8.8 | 12 32.1 | 42.2 | 45.4 | 48.6 | 51.7 | 12 | 45.40 | | |
| | | | | 11.2 | | | | | | | +57.887 | | |
| | κ | | | 14.7 | | | | | + 51.63 | | − 26 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 11.57 | | | | | | 13 | 37.02 | | |
| | $a_2$ | | | | | | | | | | − 2.185 | | |
| | | | | | | | | | | | 34.848 | | |

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Runs

| | $T_m - T\,\delta$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +16.19 | 4 20.4 | 27.7 | 8.1 | 4′ 24.05 | 38′ | 24.30 | | 40 | 54° 40′ 14.77 | |
| | 1.20925 | 1.20925 | | | | 54 40 | 32.38 | | | 1990 | + 12.86 |
| d | 9.91167 | 9.76200 | | | | | −17.61 | | | − 7 | 68 |
| | 1.24587 | 1.09620 m | | | | | −12.48 | | | − 119 | |
| | | | 49 50.76 | | | | | | | + 13.62 | |
| ((δ) − D) $\frac{d'}{100}$ | | | 50 0.24 | | 40 26.4 | | | | | + 50 | |
| −4.74 | | | | | 44 | | | | | − 15.40 | |
| +9.25 $\delta_1$ | | | | | | | | | | 40 1718 | |
| | +1.15 | 4 28.2 | 39.7 | 67.9 | 4 33.95 | 38 | 14.10 | | 40 | 54 40 ~~21.13~~ | |
| | 0.06070 | 0.06070 | | | | 54 40 | 22.38 | | | 2149 | + 12.03 |
| d | 9.91158 | 9.76218 | | | | | − 1.25 | | | − 0 | 11.87 |
| | 0.09723 | 0.94788 m | | | | | − 0.89 | | | − 133 | |
| | | | 50.51 | | | | | | | + 12.91 | |
| ((δ) − D) $\frac{d'}{100}$ | | | 49 ~~59.99~~ | | 40 26.0 | | | | | + 45 | |
| −4.74 | | | | | 3 | | | | | − 1660 | |
| +9.25 $\delta_2$ | | | | | | | | | | 40 16.76 | |
| | +26.54 | 3 32.1 | 88.7 | 10.8 | 3 35.40 | 19 | 12.95 | | 0 | 53 20 ~~52.67~~ | |
| | 1.42390 | 1.42390 | | | | 53 21 | 21.03 | | | 5991 | + 11.44 |
| d | 9.90434 | 9.77592 | | | | | − ~~28.39~~ | | | − 18 | 26 |
| | 1.45319 | 1.32477 m | | | | | − 21.12 | | | − 97 | |
| | | | 1552 | | | | | | | + 12.14 | |
| ((δ) − D) $\frac{d'}{100}$ | | | 51 ~~24.84~~ | | 21 5.6 −1″ | | | | | + 45 | |
| −4.66 | | | 3 | | 3 32 | | 12 | | | − 1490 | |
| +9.36 $\delta_1$ | | | | | | | | | | 20 5627 | |
| | +28.37 | 3 25.9 | 48.7 | 74.6 | 3 37.30 | 19 | 14.05 | | 0 | 53 20 ~~48.68~~ | 21.245 |
| | 1.45286 | 1.45286 | | | | 53 21 25 | 19.03 | | | 21 01.45 | + 1062 |
| d | 9.90434 | 9.77592 | | | | | − ~~30.35~~ | | | − 21 | 46 |
| | 1.48215 | 1.35373 m | | | | | − 22.58 | | | − 104 | |
| | | | 1536 | | | | | | | + 11.47 | |
| ((δ) − D) $\frac{d'}{100}$ | | | 51 ~~24.68~~ | | 21 ~~0.2~~ 62 | | | | | + 40 | |
| −4.66 | | | | | 33 | | | | | − 1610 | |
| +9.36 $\delta_2$ | | | | | | | | | | 20 ~~50.81~~ 5081 | |
| | +34.03 | 8 52.9 | 58.1 | 11.0 | 3 58.50 | 18 | 52.85 | | 30 | 53 ~~49~~ ~~24.50~~ | |
| | 1.53186 | 1.53186 | | | | 53 51 | 0.93 | | | 34.16 | +11.85 |
| d | 9.90704 | 9.77078 | | | | | − ~~36.63~~ | | | − 30 | 67 |
| | 1.56385 | 1.42759 m | | | | | − 26.77 | | | − 105 | |
| | | | 43.56 | | | | | | | + 12.70 | |
| ((δ) − D) $\frac{d'}{100}$ | | | 53 ~~52.92~~ | | 50 40.5 | | | | | + 50 | |
| −4.68 | | | | | 33 | | | | | − 14.90 | |
| +9.55 $\delta_1$ | | | | | | | | | | 50 3093 | |
| | +36.91 | 3 45.9 | 67.7 | 103.6 | 3 51.80 | 48 | 56.55 | | 30 | 53 50 24.79 | |
| | 1.56714 | 1.56714 | | | | 53 51 | 4.53 | | | 35.32 | +10.93 |
| d | 9.90713 | 9.77078 | | | | | − ~~39.74~~ | | | − 36 | 77 |
| | 1.59922 | 1.46287 m | | | | | − 29.03 | | | − 113 | |
| | | | 43.43 | | | | | | | + 12.02 | |
| ((δ) − D) $\frac{d'}{100}$ | | | 53 ~~52.79~~ | | 50 39.6 | | | | | + 40 | |
| −4.68 | | | | | 53 | | | | | − 16.20 | |
| +9.55 $\delta_2$ | | | | | | | | | | 50 3007 | |
| | +14.01 | 3 3.1 | 12.3 | 15.4 | 3 7.70 | 29 | 40.65 | | 50 | 51 31 ~~34.47~~ | |
| | 1.14644 | 1.14644 | | | | 51 31 | 48.73 | | | 37.11 | + 9.61 |
| d | 9.89375 | 9.79383 | | | | | − 14.29 | | | − 3 5 | 43 |
| | 1.16514 | 1.06522 m | | | | | − 11.62 | | | − 84 | |
| | | | 25.64 | | | | | | | + 10.10 | |
| ((δ) − D) $\frac{d'}{100}$ | | | 10 ~~34.62~~ | | 31 44.3 | | | | | + 40 | |
| −4.49 | | | | | 53 | | | | | − 13.00 | |
| +10.80 $\delta_1$ | | | | | | | | | | 31 3354 | |
| | +8.19 | 3 5.0 | 18.8 | 23.8 | 3 11.90 | 29 | 36.45 | | 50 | 51 31 ~~35.88~~ | |
| | 0.91328 | 0.91328 | | | | 51 31 | 44.43 | | | 37.64 | + 8.96 |
| d | 9.89375 | 9.79383 | | | | | − ~~8.55~~ | | | − 2 | 80 |
| | 0.93198 | 0.83206 m | | | | | − 6.79 | | | − 93 | |
| | | | 25.59 | | | | | | | + 9.56 | |
| ((δ) − D) $\frac{d'}{100}$ | | | 10 ~~34.57~~ | | 31 42.7 | | | | | + 35 | |
| −4.49 | 35 | | | | 35 | | | | | − 1450 | |
| +10.80 $\delta_2$ | | | | | | | | | | 31 3194 | |
| | +~~45~~27 | 0 26.1 | 84.9 | 61.0 | 0 30.50 | 47 | 17.85 | | 35 | 49 48 ~~39.82~~ | |
| | ~~2.65581~~ | 1.54741 | | | | 49 49 | 25.93 | | | 55.59 | + 8.87 |
| d | 9.88308 | 9.80972 | | | | | − ~~41.11~~ | | | − 34 | 7.82 |
| | 1.66384 | 1.48208 m | | | | | − 30.34 | | | − 14 | |
| | | | 30.52 | | | | | | | + 8.18 | |
| ((δ) − D) $\frac{d'}{100}$ | | | 13 ~~39.30~~ | | 49 2.0 ×.10 | | | | | + 30 | |
| −4.39 | | | | | 35 | | | | | − 1240 | |
| +11.03 $\delta_1$ | | | | | | | | | | 48 57.01 | |
| | +33.83 | 0 23.5 | 38.1 | 61.6 | 0 30.80 | 47 | 17.45 | | 35 | 49 48 ~~50.27~~ | |
| | 1.52930 | 1.52930 | | | | 49 49 | 25.43 | | | 56.33 | + 7.55 |
| d | 9.88308 | 9.80972 | | | | | − ~~31.46~~ | | | − 31 | 39 |
| | 1.53733 | 1.46397 m | | | | | − 29.10 | | | − 14 | |
| | | | 30.49 | | | | | | | + 7.75 | |
| ((δ) − D) $\frac{d'}{100}$ | | | 13 ~~39.24~~ | | 49 1.0 | | | | | + 25 | |
| −4.39 | | | | | | | | | | − 1380 | |
| +11.03 $\delta_2$ | | | | | | | | | | 48 ~~49.99~~ | |

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466

Date$_1$ = 1876, Apr. 2 Observer W.A.R. Recorder J.F.M.

Date$_2$ = 1876, Apr. 6 Observer W.A.R. Recorder J.F.M. $n = -.09$

52

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_a$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 19 1 | 53° 38 | 8.5 | 8 18 16.9 | 18 22.8 | 26.4 | 29.8 | 33.3 | 36.8 | 18 | 29.82 | +02 | |
| | 1/ 43.7 | 40.6 | 8.7 | 19.1 | | | | | | | +44.15 | | |
| | κ | | | 23.5 | | | | | | | +51.89 | | |
| | | | | 19.83 | | | | | + 51.57 | | − 30 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | 19 | 21.41 | | |
| | | | | | | | | | | | − 2.38 | | |
| | $c_1$ | | | | | | | | | | 19.03 | | |
| | | | 8.8 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_2$ | | | | | | | | | | | | |
| | 43 31 | 50 26 | 8.0 | 42 47.8 | 42 55.7 | 58.7 | 2.0 | 5.3 | 8.5 | 43 | 20.4 | +02 | |
| | 42 21.8 | 29.5 | 7.7 | 50.4 | | | | | | | +44.16 | | |
| | κ | | | 53.5 | | | | | | | + 51.88 | | |
| | | | | 50.57 | | | | | + 51.60 | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | 43 | − 2.47 | | |
| | | | | | | | | | | 43 | 51.179 | | |
| | $a_1$ | | | | | | | | | | | | |
| | | | — | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_2$ | | | | | | | | | | | | |
| 9 | 0 3 | 49 50 | 7.6 | | | | | | | | | | |
| 8 | 58 54.8 | 49 33.6 | 7.3 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_1$ | | | | | | | | | | | | |
| | | | 8.6 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | 7.5 | | | | | | | | | | |
| | $a_2$ | | | | | | | | | | | | |
| | 13 28 | 54 7 | 8.3 | | | | | | | | | | |
| | 12 12.9 | 11.5 | 9.0 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_1$ | | | | | | | | | | | | |
| | | | 8.3 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_2$ | | | | | | | | | | | | |
| | 17 4 | 54 21 | 9.5 | | | | | | | | | | |
| | 15 50.4 | 24.6 | 9.3 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_1$ | | | | | | | | | | | | |
| | | | 9.6 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_2$ | | | | | | | | | | | | |

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April 2 +2′ 7.″98 −.16

Runs 6 +2 7.58 +.″06 +.06

| | $T_m - T_S$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +9.99 | 3 38.0 | 49.4 | 87.4 | 48 3′ 43.″70 | 53 34′ | 4.65 | | 45 | 53° 36′ 1.″97 | |
| | 0.99957 | 0.99957 | | | | 53 36 | 12.63 | | | 4.73 | +11.81 |
| d | 9.90375 | 9.77336 | | | | | −10.72 | | | − 3 | 6 5 |
| | 1.03004 | 0.98788m | | | | | − 4.90 | | | − 100 | |
| | 1.03026m | | | | | | | | | +12.44 | |
| | | | | | | | | | | + 40 | |
| −4.56 $\delta_1$ | | | 19 14.47 | | 36 13.2 | | | | | −14.60 | |
| +11.44 | | | | | 48 | | | | | 36 1.78 | |
| | | 3 20.4 | 32.2 | 52.6 | 3 26.30 | 1 34 | 22.05 | | 45 | | |
| | | | | | | 53 | | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |
| | +11.47 | 0 8.1 | 23.5 | 31.6 | 0 15.80 | 22 | 32.55 | | 0 | 50 24 28.74 | |
| | 1.05956 | 1.05956 | | | | 50 24 | 40.53 | | | 30.79 | + 9.01 |
| d | 9.88688 | 9.80428 | | | | | −11.79 | | | − 3 | 8.85 |
| | 1.07139 | 0.98879m | | | | | − 9.74 | | | − 5 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | + 8.84 | |
| | | | 46.90 | | | | | | | + 25 | |
| −4.29 $\delta_1$ | | | 43 55.48 | | 24 40.9 | | | | | −11.90 | |
| +13.14 | | | | | 0 | | | | | 24 27.84 | |
| | | 4 59.4 | 13.2 | 132.6 | 5 6.30 | 22 | 42.05 | | 55 | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |
| | | 1 40.7 | 53.8 | 94.5 | 36 1 47.25 | 46 | 1.10 | | 35 | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | | 1 46.8 | 59.9 | 106.7 | 36 1 53.35 | | | | 35 | | |
| | | | | | | 45 | 55.00 | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |
| | | 2 47.2 | 57.7 | 104.9 | 7 2 53.45 | 14 | 54.90 | | 5 | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | | 2 53.8 | 5.9 | 119.7 | 7 2 59.85 | 14 | 48.50 | | 5 | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |
| | | 3 39.6 | 51.5 | 91.1 | 58 3 45.55 | 24 | 2.80 | | 55 | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | | 3 20.5 | 32.1 | 52.6 | 58 3 26.30 | 24 | 22.05 | | 55 | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |

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Date$_1$ = 1876, Apr. 2 Observer / Recorder

Date$_2$ = 1876, Apr. 6 Observer / Recorder

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_a$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 20m 12s | 50° 35′ | 7.5 | | | | | | | | | | |
| | 19 6.4 | | 7.1 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | | | 7.0 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| | 26 45 | 54 23 | 9.3 | | | | | | | | | | |
| | 25 31.1 | | 9.4 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | | | 9.4 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| | 27 15 | 53 53 | 8.7 | | | | | | | | | | |
| | 26 1.9 | | 8.3 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | | | 8.5 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| | 32 20 | 53 12 | 8.2 | | | | | | | | | | |
| | 31 6.4 | | 8.0 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | | | 8.0 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | | | | | | | | | | | | over | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |

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-.16
+.06

Runs

| | $T_m - T_\delta$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | $\delta'$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| d | | 0 | 32.0 | 46.5 | 78.5 | 50 0′ 39.″25 | 32′ | 9.″10 | 50 | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| d | | 0 | 15.4 | 29.1 | 44.5 | 50 0 22.25 | 32 | 26.10 | 50 | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |
| d | | 4 | 41.2 | 53.8 | 95.0 | 4 47.50 | 18 | 0.85 | 0 | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| d | | 4 | 31.0 | 41.9 | 72.9 | 4 36.45 | 18 | 11.90 | 0 | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |
| d | | 4 | 5.7 | 17.3 | 23.0 | 34 4 11.50 | 48 | 36.85 | 30 | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| d | | 4 | 0.9 | 11.8 | 12.7 | 34 4 6.35 | 48 | 42.00 | 30 | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |
| d | | 3 | 34.0 | 45.8 | 79.8 | 13 3 39.90 | 9 | 8.45 | 10 | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| d | | 3 | 34.7 | 11.8 | 46.5 | 13 3 23.25 | 9 | 25.10 | 10 | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |

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# Single Observations



Date$_1$ = 1876, March 19 Observer Recorder — Date$_2$ = Observer Recorder

$\eta = +.02$
$\zeta = -.06$

| Star. | α | δ | Mag. | $T_b$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3m 51s | 52° 15′ | 9.3 | 7 2 56.3 | 3 23.0 | 26.8 | 29.7 | 33.1 | 36.5 | +.019 | 3m 2982 | | Add +.019 to (UT + η) Mar 19. It has been added to sum of the constants and to final R.A |
| | 2 32.1 | 16.7 | 9.5 | 59.2 | | | | | | | +44.12.09 | | |
| | κ | | | 1.7 | | | | | + 44.04 | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 59.07 | | | | | | | − 10 | | |
| | $\alpha_1$ | | | | | | | | | 4 | 13.87 | | |
| | | | | | | | | | | | −1.86 | | |
| | | | | | | | | | | | 11.98 | 12.00 | |
| | 4 27 | 53 49 | 9.1 | 3 54.4 | | Ch. f. | | | | | | | |
| | 8 5.9 | 50.9 | 9.3 | 57.3 | | | | | | | | | |
| | κ | | | 59.7 | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 57.13 | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| | 12 3 | 52 31 | 9.0 | 11 16.8 | 11 35.4 | 38.8 | 42.1 | 45.5 | 48.9 | 11 | 4214 | | |
| | 10 46.3 | 32.8 | 9.2 | 20.6 | | | | | | | +44.12.0 | | |
| | κ | | | 23.2 | | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 20.20 | | | | | + 44.05 | | − 10 | | |
| | $\alpha_1$ | | | | | | | | | 12 | 26.19 | | |
| | | | | | | | | | | | −1.97 | | |
| | | | | | | | | | | | 24.20 | 2 | |
| | 13 22 | 54 20 | 8.0 | 12 28.6 | 12 35.2 | 38.7 | 42.4 | 45.9 | 49.4 | 13 | 2.32 | | |
| | 12 2.4 | 21.6 | 8.0 | 31.4 | | | | | | | +44.12.0 | | |
| | κ | | | 35.5 | | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 31.83 | | | | | + 44.05 | | − 10 | | |
| | $\alpha_2$ | | | | | | | | | 13 | 46.38 | | |
| | | | | | | | | | | | −2.05 | | |
| | | | | | | | | | | | 44.30 | 2 | |
| | | | | | | | | | | | 18 | | |
| | 14 27 | 52 57 | 8.2 | 13 28.8 | 14 1.3 | 4.7 | 8.2 | 11.7 | 15.0 | 14 | 8.50 | | |
| | 13 10.3 | 58.8 | 8.9 | 31.7 | | | | | | | +44.12.0 | | |
| | κ | | | 34.3 | | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 31.60 | | | | | + 44.05 | | − 10 | | |
| | $\alpha_1$ | | | | | | | | | 14 | 52.24 | | |
| | | | | | | | | | | | −2.01 | | |
| | | | | | | | | | | | 50.20 | 2 | |
| | 17 4 | 53 2 | 9.0 | 16 13.5 | 16 34.0 | 37.5 | 40.8 | 44.3 | 47.7 | 16 | 40.86 | | |
| | 15 42.8 | 53 3.8 | 9.2 | 16.7 | | | | | | | +44.12.0 | | |
| | κ | | | 19.3 | | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 16.50 | | | | | + 44.05 | | − 10 | | |
| | $\alpha_2$ | | | | | | | | | 17 | 24.92 | | |
| | | | | | | | | | | | −2.04 | | |
| | | | | | | | | | | | 22.85 | 7 | |
| | 19 18 | 49 55 | 9.0 | 18 36.4 | 18 54.2 | 57.3 | 0.6 | 3.8 | 7.0 | 19 | 0.58 | | |
| | 18 4.5 | 49 56.6 | 9.0 | 40.1 | | | | | | | +44.12.0 | | |
| | κ | | | 42.6 | | | | | | | + 2 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 39.70 | | | | | + 44.05 | | − 9 | | |
| | $\alpha_1$ | | | | | | | | | 19 | 44.64 | | |
| | | | | | | | | | | | −1.95 | | |
| | | | | | | | | | | | 22.66 | 4268 | ✓ |
| | | | | | | | | | | 4 | | | |
| | 21 5 | 50 56 | 9.4 | 20 13.3 | 20 41.9 | 45.2 | 48.3 | 51.6 | 54.9 | 20 | 48.38 | | |
| | 19 57.3 | 58.1 | 9.4 | 16.3 | | | | | | | +44.13.0 | | |
| | κ | | | 18.6 | | | | | | | + 2 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 16.07 | | | | | + 44.05 | | − 9 | | |
| | $\alpha_2$ | | | | | | | | | 21 | 32.58 | | 44 |
| | | | | | | | | | | | −2.00 | | |
| | | | | | | | | | | | 30.41 | 3 | |
| | 22 25 | 53 24 | 9.0 | 21 33.4 | 21 53.5 | 59.0 | 2.3 | 5.8 | 9.4 | 22 | 2.40 | | |
| | 21 4.2 | 26.0 | 9.1 | 36.9 | | | | | | | +44.13.0 | | |
| | κ | | | 40.0 | | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 36.77 | | | | | + 44.05 | | − 10 | | |
| | $\alpha_1$ | | | | | | | | | 22 | 46.46 | | |
| | | | | | | | | | | | −2.12 | | |
| | | | | | | | | | | | 44.34 | 3 | |
| | 25 h 17 | 54 37 | 9.0 | 24 25.8 | 24 50.4 | 53.6 | 57.3 | 0.8 | 4.5 | 24 | 57.32 | | |
| | 23 56.7 | 38.8 | 9.0 | 29.7 | | | | | | | +44.13.1 | | |
| | κ | | | 32.0 | | | | | | | + 3 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 29.17 | | | | | + 44.06 | | − 10 | | |
| | $\alpha_2$ | | | | | | | | | 25 | 41.38 | | |
| | | | | | | | | | | | −2.20 | | |
| | | | | | | | | | | | 39.18 | 8 | |
| | ~~29 2~~ | | | 28 ~~31.5~~ 34.3 | ~~38.8~~ 38.4 | ~~37.0~~ | ~~40.3~~ | ~~44.0~~ | ~~47.6~~ | ~~28~~ | ~~40.44~~ | | |
| | ~~27 42.0~~ | ~~64 12.8~~ | 7.0 | 32.7 | read on page 48 | | | | | | +44.13.1 | | |
| | | | | 31.50 | | | | | | | + 3 | | |
| | | | | | | | | | | | − 10 | | |
| | | | | | | | | | | 29 | 24.50 | −2.24 | |
| | | | | | | | | | | | 24.26 | 6 | |

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March 19 +2' 8.08 — .18 57

Runs

| | $T_m - T_S$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ' |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +30.75 | 4 30.3 | 39.4 | 9.7 | 9 4' 34.85 | 13' | 18.50 | | 5 | 52° 14' 49.10 | |
| | 1.48785 | 1.48785 | | | 52 15 | 21.58 | | | | 56.48 | +9.78 |
| d | 9.89801 | 9.78691 | | | | −32.42 | | | | − 25 | 60 |
| ((δ) − D) $\frac{d'}{100}$ | 1.51081n | 1.39971n | | | | −25.10 | | | | − 124 | |
| | | | | | | | | | | +1087 | |
| −4.73 $\delta_1$ | | 4 7.27 | | 14 54.2 | | | | | | + 40 | |
| +5.54 | | | | | 35 | | | | | −17.40 | |
| | | | | | | | | | | 14 48.8 | |
| | | 0 45.0 | 52.1 | 97.1 | 0 4885 | 46 | 59.60 | | 35 | | |
| | | | | | | 53 49 | 7.88 | | | 53 49 51.92 | |
| d | 9.90694 | 9.77112 | | | | | | | | − 22 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 45 | |
| $\delta_2$ | | | | | | | | | | | |
| | | | | | 53 | | | | | | |
| | +21.94 | 3 23.7 | 32.0 | 55.7 | 3 27.85 | 29 | 20.50 | | 50 | 52 31 5.37 | |
| | 1.34124 | 1.34124 | | | | 52 31 | 28.58 | | | 10.78 | +10.51 |
| d | 9.89956 | 9.78428 | | | | | −23.21 | | | − 13 | 33 |
| ((δ) − D) $\frac{d'}{100}$ | 1.36575n | 1.25047n | | | | | −17.80 | | | − 94 | |
| | | | | | | | | | | +11.18 | |
| −4.73 $\delta_1$ | | 12 19.49 | | 31 10.3 | | | | | | + 40 | |
| +6.22 | | | | | 4 | | | | | −17.00 | |
| | | | | | | | | | | 31 41.1 | |
| | +30.49 | 4 54.0 | 0.6 | 114.6 | 4 57.30 | 17 | 57.05 | | 0 | 54 19 26.10 | |
| | 1.48416 | 1.48416 | | | | 54 19 | 59.13 | | | 35.43 | +12.13 |
| d | 9.90978 | 9.76572 | | | | | −33.03 | | | − 24 | 11.95 |
| ((δ) − D) $\frac{d'}{100}$ | 1.51889n | 1.37483n | | | | | −23.70 | | | − 135 | |
| | | | | | | | | | | +1322 | |
| −4.84 $\delta_2$ | | 13 39.48 | | 19 36.2 | | | | | | + 50 | |
| +6.33 | | | | | 27 | | | | | −17.50 | |
| | | | | | | | | | | 19 29.88 | |
| | +36.58 | 2 51.0 | 57.0 | 8.0 | 2 54.00 | 54.1 | 54.35 | | 25 | 52 56 23.50 | |
| | 1.56324 | 1.56324 | | | | 52 57 | 2.43 | | | 33.06 | +10.93 |
| d | 9.90206 | 9.77080 | | | | | −38.93 | | | − 35 | 75 |
| ((δ) − D) $\frac{d'}{100}$ | 1.59025n | 1.46779n | | | | | −29.38 | | | − 78 | |
| | | | | | | | | | | +11.66 | |
| −4.75 $\delta_1$ | | 14 45.47 | | 56 33.2 | | | | | | + 40 | |
| +6.42 | | | | | 22 | | | | | −17.00 | |
| | | | | | | | | | | 56 26.8X | 0 |
| | +24.36 | 1 57.8 | 4.1 | 121.9 | 2 0.95 | 0 | 47.40 | | 20 | 53 2 29.52 | |
| | 1.38668 | 1.38668 | | | | 53 2 | 55.48 | | | 35.96 | +11.49 |
| d | 9.90263 | 9.77896 | | | | | −25.96 | | | − 15 | 31 |
| ((δ) − D) $\frac{d'}{100}$ | 1.41426n | 1.29059n | | | | | −19.52 | | | − 54 | |
| | | | | | | | | | | +11.78 | |
| −4.75 $\delta_2$ | | 17 18.12 | | 2 37.0 | | | | | | + 40 | |
| +6.63 | | | | | 30 | | | | | −16.90 | |
| | | | | | | | | | | 2 30.37 | |
| | +20.88 | 0 7.5 | 18.0 | 255.0 | 1275 | 52 | 35.60 | | 30 | 49 54.1 22.38 | |
| | 1.31973 | 1.31973 | | | | 49 54 | 43.68 | | | 25.75 | +8.40 |
| d | 9.88372 | 9.80882 | | | | | −24.30 | | | − 12 | 22 |
| ((δ) − D) $\frac{d'}{100}$ | 1.32840n | 1.25350n | | | | | −17.93 | | | − 5 | |
| | | | | | | | | | | + 8.27 | |
| −4.56 $\delta_1$ | | 19 38.12 | | 54 25.0 | | | | | | + 30 | |
| +6.83 | | | | | 28 | | | | | −15.80 | |
| | | | | | | | | | | 54 18.17 | |
| | +32.31 | 3 24.7 | 33.1 | 87.8 | 3 2890 | 54 | 19.45 | | 25 | 50 55 54.08 | |
| | 1.50934 | 1.50934 | | | | 50 56 | 27.53 | | | 56 0.38 | +8.53 |
| d | 9.89009 | 9.79950 | | | | | −33.45 | | | − 28 | 35 |
| ((δ) − D) $\frac{d'}{100}$ | 1.52438n | 1.43379n | | | | | −27.15 | | | − 94 | |
| | | | | | | | | | | +9.40 | |
| −4.62 $\delta_2$ | | 21 25.81 | | 55 59.7 | | | | | | + 35 | |
| +6.97 | | | | | | | | | | −16.00 | |
| | | | | | | | | | | 55 52.73 | |
| | +25.63 | 0 55.6 | 3.4 | 119.0 | 0 5950 | 21 | 4885 | | 0 | 53 23 20.49 | |
| | 1.40875 | 1.40875 | | | | 53 23 | 56.93 | | | 36.56 | +12.19 |
| d | 9.90462 | 9.77541 | | | | | −27.44 | | | − 17 | 01 |
| ((δ) − D) $\frac{d'}{100}$ | 1.43832n | 1.30911n | | | | | −20.38 | | | − 27 | |
| | | | | | | | | | | +12.18 | |
| −4.76 $\delta_1$ | | 22 39.57 | | 23 38.9 | | | | | | + 45 | |
| +7.08 | | | | | 48 | | | | | −16.70 | |
| | | | | | | | | | | 23 31.86 | |
| | +28.15 | 3 20.5 | 27.0 | 75.3 | 3 28.75 | 34 | 24.60 | | 45 | 54 36 42.08 | 36 28.09 |
| | 1.44948 | 1.44948 | | | | 54 36 | 32.68 | | | 10.95 | +12.92 − 1 +13.11 |
| d | 9.91132 | 9.76271 | | | | | −30.60 | | | − 20 | 74 − 92 |
| ((δ) − D) $\frac{d'}{100}$ | 1.48575n | 1.33714n | | | | | −21.73 | | | − 92 | + 13.54 |
| | | | | | | | − 4.59 | | | +13.54 | + 50 |
| −4.82 $\delta_2$ | | 25 34.36? | | 36 14.1 | | | | | | + 50 | −1660 |
| +7.31 | +5.94 | | | | | | | | | −16.90 | 36 2442 |
| | 9.77379 | | | | | | | | | 36 6.79 | |
| | 9.76271 | | | | | | | | | | |
| | 9.85185 | | | | | | | | | | |

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Date$_1$ = 1876, April 10 — Observer W.A.R. — Recorder J.F.M. — Date$_2$ = 1876, Apr. 11 — Observer W.A.R. — Recorder J.F.M.

~~Single Observations~~ 467 468

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 19 1 | 53 38 | 8.8 | 8 18 29.3 | 18 18.0 | 21.3 | 24.9 | 28.4 | 32.0 | 18 | 24.92 | | |
| | 17 43.7 | 40.6 | 8.7 | 31.3 | | | | | + 56.33 | | + 56.63 | | |
| | κ | | | 35.0 | | | | | | | - 30 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 31.87 | | | | | | 19 | 21.25 | | |
| | $a_1$ | | | | | | | | | | - 2.17 | | |
| | | | | | | | | | | | 19.08 | | |
| | | | 9.0 | 19 43.4 | 18 17.3 | 20.8 | 24.3 | 27.9 | 31.3 | 18 | 24.32 | | |
| | | | | 46.9 | | | | | + 56.83 | | + 57.25 | | |
| | κ | | | 50.0 | | | | | | | - 42 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 46.93 | | | | | | 19 | 21.15 | | |
| | $a_2$ | | | | | | | | | | - 2.14 | | |
| | | | | | | | | | | | 19.01 | | |
| | 20 6 | 52 28 | 8.5 | 19 13.0 | 19 22.7 | 26.1 | 29.6 | 33.0 | 36.4 | 19 | 29.56 | | |
| | 18 57.2 | 31.6 | 8.6 | 15.6 | | | | | + 56.34 | | + 56.63 | | |
| | κ | | | 19.5 | | | | | | | - 29 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 16.03 | | | | | | 20 | 25.90 | | |
| | $a_1$ | | | | | | | | | | - 2.13 | | |
| | | | | | | | | | | | 23.77 | | |
| | | | 8.9 | 19 13.0 | 19 22.4 | 25.7 | 29.0 | 32.6 | 35.7 | 19 | 29.12 | | |
| | | | | 13.00 | | | | | + 56.85 | | + 57 40 25 | | |
| | κ | | | | | | | | | | - 25 40 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | 20 18 | 37.97 | | |
| | $a_2$ | | | | | | | | | | - 2.11 | | |
| | | | | | | | | | | | 23.86 | | |
| | 30 7 | 53 11 | 6.0 | 29 57.5 | 29 4.8 | 8.2 | 11.7 | 15.1 | 18.4 | 29 | 11.68 | | |
| | 28 ~~49.6~~ 31.6 | ~~12.9~~ 12.7 | 9.4 | 57.50 | | | | | + 56.34 | | + 56.63 | | |
| | κ | | | | | | | | | | - 29 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | 9.5 | 29 28.0 | 29 23.6 | 26.7 | 30.4 | 33.6 | 37.0 | 30 | 8.82 | -226 | |
| | 28 49.6 | 53 13.5 | | 28.00 | | | | | | 29 | 30.26 | 5.76 | |
| | $a_1$ | | | | | | | | + 56.34 | | + 56.63 | | |
| | | | | | | | | | | | - 29 | | |
| | | | | | | | | | | 30 | 26.60 | -2.27 | |
| | | | | | | | | | | | | 24.33 | |
| | 28 31.6 | 53 12.7 | — | 29 1.9 | 29 4.2 | 7.8 | 11.1 | 14.6 | 18.0 | 29 | 11.14 | | |
| | κ | | | 3.6 | | | | | + 56.84 | | + 57.25 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 7.3 | | | | | | | - 41 | | |
| | $a_2$ | | | 4.27 | | | | | | 30 | 7.98 | | |
| | | | | | | | | | | | - 2.24 | | |
| | | | | | | | | | | | 5.74 | | |
| | 43 31 | 50 26 | 6.5 | | Ch. f. | | | | | | | | |
| | 42 21.8 | 29.5 | 7.7 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_1$ | | | | | | | | | | | | |
| | | | 7.8 | 42 17.6 | 42 50.2 | 53.5 | 56.7 | 0.0 | 3.2 | 42 | 56.72 | | |
| | | | | 19.7 | | | | | + 5687 | | + 57.25 | | |
| | κ | | | 22.1 | | | | | | | - 38 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 19.50 | | | | | | 43 | 53.59 | | |
| | $a_2$ | | | | | | | | | | - 2.25 | | |
| | | | | | | | | | | | 51.34 | | |
| 9 | 9 49 | 52 31 | 9.0 | 9 8 35.7 | 9 6.6 | 10.0 | 13.3 | 16.6 | 20.1 | 9 | 13.32 | | |
| | 8 37.7 | 34.7 | 9.0 | 40.0 | | | | | + 56.35 | | + 56.64 | | |
| | κ | | | 42.0 | | | | | | | - 27 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 39.23 | | | | | | 10 | 9.67 | | |
| | $a_1$ | | | | | | | | | | - 2.63 | | |
| | | | | | | | | | | | 7.04 | | |
| | | | 8.5 | 8 36.8 | 9 6.2 | 9.5 | 12.9 | 16.3 | 19.8 | 9 | 12.94 | | |
| | | | | 40.4 | | | | | + 5684 | | + 57.24 | | |
| | κ | | | 42.9 | | | | | | | - 40 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 40.13 | | | | | | 10 | 9.78 | | |
| | $a_2$ | | | | | | | | | | - 2.60 | | |
| | | | | | | | | | | | 7.18 | | |

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1876phae.proj.1600R

April 10 +2′ 9.″51 −.″30 −.″04
11 +2 9.84 −.30 −.05

−.04
−.05



Runs

| | $T_m - T\S$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | −6.95 | 3 53.1 | 2.9 | 11.6 | 3′ 58.″00 | 3.31 | 50.35 | | 45 | 53° 7′ 7.″29 | |
| | 0.841980 | 0.841980 | | | | 18 | 9.86 | | | 36 5.39 | +10.41 |
| d | 9.900434 | 9.775922 | | | | 53 20 | 60.21 | | | − 1 | 87 |
| | 0.871270 | 0.742850 | | | | 35 | + 7.43 | | | − 120 | |
| | | | | | | | + 5.53 | | | +11.782 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 83 | |
| | | | | | | | | | | 40 | |
| −4.56 $\delta_1$ | | 19 14.52 | | 36 12.5 | | | | | | − 15.20 | |
| +11.44 | | | | | x.10 | | | | | 36 1.06 | |
| | +37.39 | 3 17.5 | 28.2 | 46.7 | 3 22.85 | 31 | 25.40 | | 45 | 53 55.10 | |
| | 1.572716 | 1.572716 | | | | 53 36 | 35.24 | | | 36 5.67 | +10.55 |
| d | 9.905583 | 9.773319 | | | | | −10.11 | | | − 37 | 0 |
| | 1.603541 | 1.470902 | | | | | −29.67 | | | − 102 | |
| | | | | | | | | | | +11.59 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 35 | |
| | | | | | | | | | | −15.30 | |
| −4.56 $\delta_2$ | | 19 14.45 | | 36 12.3 | | | | | | 36 0.87 | |
| +11.44 | | | | | 57 | | | | | | |
| | +13.53 | 1 59.0 | 9.3 | 128.3 | 2. 4.15 | 25 | 44.20 | | 55 | 52 27 39.40 | |
| | 1.13130 | 1.13130 | | | | 52 27 | 53.71 | | | 42.72 | +10.11 |
| d | 9.899274 | 9.784784 | | | | | −14.31 | | | − 5 | 07 |
| | 1.155524 | 1.041030 | | | | | −10.99 | | | − 63 | |
| | | | | | | | | | | +10.49 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 30 | |
| | | | | | | | | | | −14.80 | |
| −4.50 $\delta_1$ | | 20 19.27 | | 27 49.5 | | | | | | 27 36.77 | 37.99 |
| +11.51 | | | | | 57 | | | | | | |
| | +16.12 | 1 55.8 | 8.1 | 123.9 | 2 1.95 | 25 | 46.40 | | 55 | 52 27 30.20 | |
| | 1.20737 | 1.20737 | | | | 52 27 | 56.24 | | | 43.15 | +10.01 |
| d | 9.899274 | 9.784784 | | | | | −17.01 | | | − 7 | 9.96 |
| | 1.231594 | 1.117104 | | | | | −13.09 | | | − 60 | |
| | | | | | | | | | | +10.38 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 30 | |
| | | | | | | | | | | −14.90 | |
| −4.50 $\delta_2$ | | 20 19.36 | | 27 49.7 | | | | | | 27 38.21 | |
| +11.51 | | | | | 15 | | | | | | |
| | −4.582 | 0 8.8 | 19.3 | 28.1 | 0 1.405 | 7 | 34.30 | | 15 | 53 10 43.14 | 20.44 +10.469 4.70 4.200 |
| | 1.661062 | 1.661062 | | | | 53 9 | 43.81 | | | 8 32.54 | − 57 +10.01 − 0 +10.11 |
| d | 9.903300 | 9.777778 | | | | | +36.63 | | | − 57 | − 6 10.97 − 57 6 +11.51 |
| | 1.684931 | 1.561379 | | | | 5 | 11.33 | | | + 11.26 | +11.26 +11.26 |
| ((δ) − D) $\frac{d'}{100}$ | +2.26 | 1 46.1 | 56.6 | 102.7 | 1 57.35 | 8 | 57.00 | | 15 | 53 10 43.5 | + 35 + 35 + 35 |
| | 0.354411 | 0.354411 | 30 | | | 53 8 | 6.57 | | | − 1440 | −1440 −14.40 |
| $\delta_1$ | 9.903200 | 9.777955 | 29 1.27 | 8 51.4 | | | −24.10 | | | 8 39.20 | 10 1.701 9 +.38 |
| | 0.342226 | 0.257014 | 30 19.84 | 9 51.3 | 16 | | −1.81 | | | | 39.11 |
| −4.49 | +6.87 | 1 4.2 | 16.6 | 20.8 | 1 10.40 | 6 | 37.95 | | 15 | 53 8 10.46 | |
| +12.23 | 0.836960 | 0.836960 | | | | 53 8 | 47.79 | | | 42.30 | 1.1024 |
| d | 9.903200 | 9.777955 | | | | | −17.33 | | | − 1 | 9.99 |
| | 0.865111 | 0.736986 | | | | | − 5.49 | | | − 36 | |
| | | | | | | | | | | +1011 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 30 | |
| | | | | | | | | | | −14.50 | |
| −4.49 $\delta_2$ | | | 30 1.25 | 8 50.0 | | | | | | 8 37.79 | |
| +12.23 | | | | | | | | | | | |
| | | 0 32.5 | 46.4 | 28.9 | 0 39.45 | 22 | 8.90 | | 0 | | |
| | | | | | | 50 24 | 18.41 | | | | |
| d | | | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | | | | | 59 | | | | | | |
| | +86.92 | 4 48.1 | 1.4 | 109.5 | 4 54.75 | 22 | 53.60 | | 55 | 50 24 25.50 | |
| | 1.567426 | 1.567426 | | | | 50 25 | 3.44 | | | 32.07 | +6.44 |
| d | 9.886888 | 9.804428 | | | | | −37.94 | | | − 37 | 59 |
| | 1.579094 | 1.496494 | | | | | −31.37 | | | − 147 | |
| | | | | | | | | | | +8.23 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 25 | |
| | | | | | | | | | | −12.50 | |
| −4.29 $\delta_2$ | | 43 47.05 | | 24 39.0 | | | | | | 24 25.86 | |
| +13.14 | | | | | 54 | | | | | | |
| | +34.09 | 4 35.4 | 46.4 | 87.8 | 4 40.90 | 28 | 7.45 | | 50 | 52 29 40.90 | |
| | 1.532263 | 1.532263 | | | | 52 30 | 16.96 | | | 49.29 | +9.12 |
| d | 9.899447 | 9.784445 | | | | | −36.06 | | | − 31 | .08 |
| | 1.557054 | 1.442203 | | | | | −27.67 | | | − 141 | |
| | | | | | | | | | | +1054 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 30 | |
| | | | | | | | | | | −11.50 | |
| −4.25 $\delta_1$ | | 10 2.79 | | 30 1.7 | | | | | | 29 46.87 | |
| +14.79 | | | | | 54 | | | | | | |
| | +32.81 | 4 35.0 | 46.6 | 81.6 | 4 40.80 | 28 | 7.55 | | 50 | 52 29 42.68 | |
| | 1.516016 | 1.516016 | | | | 52 30 | 17.39 | | | 50.76 | +9.03 |
| d | 9.899447 | 9.784445 | | | | | −34.11 | | | − 28 | 8.98 |
| | 1.540463 | 1.425461 | | | | | −26.63 | | | − 141 | |
| | | | | | | | | | | +1042 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 30 | |
| | | | | | | | | | | −11.60 | |
| −4.25 $\delta_2$ | | 10 2.93 | | 30 2.9 | | | | | | 29 48.14 | |
| +14.79 | | | | | | | | | | | |

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Date$_1$ = 1876, Apr. 10 Observer W.A.R. Recorder J.T.M.

Date$_2$ = 1876, Apr. 11 Observer W.A.R. Recorder J.T.M.

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 5 51 31 | | 9.5 | 9 11 | 12 | | | | | | | | |
| 11 | 58.2 35.1 | | | | | | | | | | | | |
| κ | | | | | | | | | | | | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $\alpha_1$ | | | | | | | | | | | | | |
| | | | 9.4 | 11 45.3 48.3 57.5 48.37 | 12 14.5 | 18.0 | 21.1 | 24.6 | 27.8 + 56.85 | 12 | 21.20 +57.24 − 39 | | |
| κ | | | | | | | | | | 13 | 24.05 − 2.58 | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 15.47 | | |
| $\alpha_2$ | | | | | | | | | | | | | |
| 33 | 2 60 46 | | 9.2 | | | | | | | | | | |
| ~~31 31~~ | | | | | | | | | | | | | |
| 9 34 10.2 | 50 58.7 | | 9.0 | | | | | | | | | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $\alpha_1$ | | | | | | | | | | | | | |
| | | | 9.5 | 32 3.0 6.2 9.6 6.27 | 32 11.9 | 15.0 | 18.3 | 21.7 | 24.7 + 56.86 | 32 | 18.32 +57.24 − 38 | | |
| κ | | | | | | | | | | 33 | 15.18 − 2.72 | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 12.46 | | |
| $\alpha_2$ | | | | | | | | | | | | | |
| 34 32 | 53 42 | | 8.3 | | | | | | | | | | |
| 33 19.1 | 46.5 | | 8.3 | | | | | | | | | | |
| κ | | | | | | | | | | | | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $\alpha_1$ | | | | | | | | | | | | | |
| 33 41.6 | 53 39.5 | | 8.5 | 33 41.5 44.7 47.4 44.53 | 34 6.8 | 10.4 | 13.8 | 17.2 | 20.8 + 56.82 | 34 | 13.80 +57.24 − 42 | | |
| κ | | | | | | | | | | 35 | 10.62 − 2.88 | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 7.74 | | |
| $\alpha_2$ | | | | | | | | | | | | | |
| 35 56 | 53 23 | | 8.2 | | | | | | | | | | |
| 34 46.5 | 27.6 | | 8.3 | | | | | | | | | | |
| κ | | | | | | | | | | | | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $\alpha_1$ | | | | | | | | | | | | | |
| | | | 8.2 | 34 44.4 47.4 50.3 47.87 | 35 12.0 | 15.6 | 19.0 | 22.3 | 25.9 + 56.82 | 35 | 18.96 +57.24 − 42 | | |
| κ | | | | | | | | | | 36 | 15.78 − 2.89 | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | 12.89 | | |
| $\alpha_2$ | | | | | | | | | | | | | |
| 41 7 | 53 29 | | 7.7 | | | | | | | | | | |
| 39 56.6 | 32.8 | | 7.2 | | | | | | | | | | |
| κ | | | | | | | | | | | | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $\alpha_1$ | | | | | | | | | | | | | |
| | | | 7.4 | 40 18.6 16.8 19.3 16.57 | 40 22.0 | 25.4 | 28.7 | 32.4 | 35.9 + 56.82 | 40 | 28.92 +57.24 − 42 | | |
| κ | | | | | | | | | | | ~~32.80~~ | | |
| ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | 41 | 25.74 − 2.94 | | |
| $\alpha_2$ | | | | | | | | | | | 22.80 | | |

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Runs

| | $T_m - T\,\delta$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2 57.4 | 9.5 | 126.9 | 53 3′ 3″.45 | 29′ | 44″.90 | | 50 | | |
| | | | | | | 51 31 | 54.41 | | | − | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | | | | | 52 | | | | | | |
| | +32.83 | 2 17.1 | 29.1 | 46.2 | 2 23.10 | 30 | 25.25 | | 50 | 51 32 ~~0.61~~ | |
| | 1.51627 | 1.51627 | | | | 51 32 | 35.09 | | | 7.87 | +8.72 |
| d | 9.89385 | 9.79367 | | | | | ~~31.25~~ | | | − 28 | 67 |
| $((\delta) - D)\frac{d'}{100}$ | 1.53507n | 1.43489n | | | | | −27.22 | | | − 72 | |
| | | | | | | | | | | + 942 | |
| $\delta_2$ | | | | | | | | | | + 30 | |
| | | | | | | | | | | −11.10 | |
| | | | | | | | | | | 32 5.44 | |
| | | | | | 33 | | | | | | |
| | | 3 34.9 | 45.9 | 80.8 | 3 40.40 | 47 | 7.95 | | 30 | | |
| | | | | | | 50 51 | 17.46 | | | − | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | | | | | 33 | | | | | | |
| | +12.05 | 3 13.5 | 24.9 | 38.4 | 3 19.20 | 49 | 29.15 | | 30 | 50 51 ~~26.53~~ | |
| | 1.08099 | 1.08099 | | | | 50 51 | 38.99 | | | 28.85 | +7.98 |
| d | 9.88968 | 9.80012 | | | | | ~~19.46~~ | | | − 4 | 93 |
| $((\delta) - D)\frac{d'}{100}$ | 1.09662n | 1.00606n | | | | | −10.14 | | | − 99 | |
| | | | | | | | | | | + 8.71 | |
| $\delta_2$ | | | | | | | | | | + 30 | |
| | | | | | | | | | | −9.50 | |
| | | | | | | | | | | 51 27.28 | |
| | | | | | 51 | | | | | | |
| | | 1 20.9 | 80.9 | 51.8 | 1 25.90 | 31 | 22.45 | | 50 | | |
| | | | | | | 53 33 | 31.96 | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | | | | | 51 | | | | | | |
| | +29.27 | 1 1.8 | 11.5 | 13.3 | 1 6.65 | 31 | 41.70 | | 50 | 53 33 ~~20.11~~ | |
| | 1.46642 | 1.46642 | | | | 53 33 | 61.54 | | | 28.36 | +11.34 |
| d | 9.90555 | 9.77370 | | | | | ~~31.40~~ | | | − 22 | 29 |
| $((\delta) - D)\frac{d'}{100}$ | 1.49692n | 1.36507n | | | | | −23.18 | | | − 33 | |
| | | | | | | | | | | +11.54 | |
| −4.15 $\delta_2$ | | 35 3.59 | | 33 45.8 | | | | | | + 35 | |
| +16.16 | | | | | | | | | | −1000 | |
| | | | | | | | | | | 33 29.63 | |
| | | 3 16.6 | 26.8 | 43.4 | 3 21.70 | 49 | 26.65 | | 0 | | |
| | | | | | | 53 21 | 36.16 | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | +31.54 | 2 55.5 | 4.8 | 120.3 | 3 0.15 | 19 | 48.20 | | 0 | 53 21 ~~24.21~~ | |
| | 1.49955 | 1.49955 | | | | 53 21 | 58.04 | | | 32.91 | +10.53 |
| d | 9.90443 | 9.77575 | | | | | ~~33.80~~ | | | − 26 | 48 |
| $((\delta) - D)\frac{d'}{100}$ | 1.52893n | 1.40025n | | | | | −25.13 | | | − 90 | |
| | | | | | | | | | | +11.34 | |
| −4.13 $\delta_2$ | | 36 8.76 | | 21 49.7 | | | | | | + 35 | |
| +16.23 | | | | | | | | | | −990 | |
| | | | | | 56 | | | | | 21 33.49 | |
| | | 1 23.6 | 33.3 | 56.9 | 1 28.45 | 26 | 19.90 | | 55 | ~~50.09~~ | |
| | | | | | | 53 28 | 29.41 | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | | | | | 56 | | | | | | |
| | +12.35 | 1 42.8 | 53.1 | 95.9 | 1 47.95 | 26 | 0.40 | | 55 | 53 ~~24 54.01~~ | |
| | 1.09164 | 1.09167 | | | | 53 28 | 10.24 | | | 28 0.44 | +11.33 |
| d | 9.90499 | 9.77443 | | | | | ~~13.23~~ | | | − 4 | 18 |
| $((\delta) - D)\frac{d'}{100}$ | 1.12161n | 0.99135n | | | | | − 9.80 | | | − 54 | |
| | | | | | | | | | | +11.46 | |
| −4.10 $\delta_2$ | | 41 18.70 | | 28 18.6 | | | | | | + 35 | |
| +16.49 | | | | | | | | | | − 950 | |
| | | | | | | | | | | 28 21.0 | |

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467

Date$_1$ = 1876, Apr. 10 Observer W.A.R. Recorder J.F.M.

468

Date$_2$ = 1876, Apr. 11 Observer W.A.R. Recorder J.F.M.

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9ae | 42 3 | 53 44 | 8.8 | | | | | | | | | | |
| | 40 52.6 | 48.1 | 9.0 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_1$ | | | | | | | | | | | | |
| | 41 17.6 | 53 53 1 | 9.0 | 41 23.5 | 41 40.7 | 44.2 | 47.8 | 51.3 | 54.7 | 41 | 47.74 | | |
| | | | | 26.6 | | | | | | | +57.24 | | |
| | | | | 29.6 | | | | | + 56.82 | | − 42 | | |
| | κ | | | 26.57 | | | | | | 42 | 44.56 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | − 2.96 | | |
| | $a_2$ | | | | | | | | | | 41.60 | | |
| | 43 28 | 53 45 | 8.8 | | | | | | | | | | |
| | 42 18.2 | 49.3 | 8.7 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_1$ | | | | | | | | | | | | |
| | | | 8.7 | 42 27.4 | 42 43.6 | 47.1 | 50.5 | 54.0 | 57.5 | 42 | 30.54 | | |
| | | | | 32.1 | | | | | | | +57.24 | | |
| | | | | 33.3 | | | | | + 56.82 | | − 42 | | |
| | κ | | | 31.60 | | | | | | 43 | 47.36 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | − 2.97 | | |
| | $a_2$ | | | | | | | | | | 44.39 | | |
| | 49 47 | 52 2 | 9.5 | | | | | | | | | | |
| | 48 39.9 | 6.3 | 9.4 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_1$ | | | | | | | | | | | | |
| | | | 9.5 | 48 32.0 | 49 3.3 | 6.7 | 10.1 | 13.6 | 16.7 | 49 | 10.08 | | |
| | | | | 34.6 | | | | | | | +57.24 | | |
| | | | | 38.2 | | | | | + 56.84 | | − 40 | | |
| | κ | | | 34.93 | | | | | | 50 | 6.92 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | − 2.91 | | |
| | $a_2$ | | | | | | | | | | 4.01 | | |
| | 52 10 | 53 42 | 8.8 | | | | | | | | | | |
| | 51 1.6 | 46.2 | 8.7 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_1$ | | | | | | | | | | | | |
| | | | 8.2 | 50 52.3 | 51 25.9 | 29.4 | 32.9 | 36.3 | 39.8 | 51 | 32.86 | | |
| | | | | 56.4 | | | | | | | +57.24 | | |
| | | | | 58.7 | | | | | + 56.82 | | − 42 | | |
| | κ | | | 55.82 | | | | | | 52 | 29.68 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | − 3.04 | | |
| | $a_2$ | | | | | | | | | | 26.64 | | |
| | 53 41 | 53 35 | 9.3 | | | | | | | | | | |
| | 52 31.8 | 40.7 | 9.3 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $a_1$ | | | | | | | | | | | | |
| | | | 9.1 | 52 20.0 | 52 36.3 | 41.0 | 3.3 | 6.8 | 10.4 | 53 | 2.96 | | |
| | | | | 22.4 | | | | | | | +57.24 | | |
| | | | | 26.0 | | | | | + 56.82 | | − 42 | | |
| | κ | | | 22.82 | | | | | | 54 | 0.18 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | − 3.04 | | |
| | $a_2$ | | | | | | | | | 53 | 57.14 | | |

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Runs

| | $T_m - T_S$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 3 45.9 | 54.8 | 100.7 | 38 3′ 50.35 | 43′ | 58.″00 | | 35 | | |
| | | | | | | 53 46 | 7.51 | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | +21.17 | 4 4.2 | 13.4 | 17.6 | 39 4 8.80 | 43 | 39.55 | | 35 | 53 45 ~~26.62~~ | |
| | 1.325472 | 1.32572 | | | | 53 45 | 49.39 | | | 32.71 | +10.77/2 |
| d | 9.90667 | 9.77164 | | | | | ~~22.44~~ | | | − 12 | |
| | 1.35734n | 1.22231n | | | | | −16.68 | | | − 123 | |
| $((\delta) - D)\frac{d'}{100}$ | ~~9.77164~~ | | | | | | | | | +11.77 | |
| −4.10 | | | | | | | | | | + 35 | |
| +16.56 $\delta_2$ | | 42 37.50 | | 45 50.6 | | | | | | −9.40 | |
| | | | | | 41 | | | | | 45 34.03 | |
| | | 1 0.9 | 10.8 | 11.7 | 1 5.85 | 41 | 42.50 | | 40 | ~~50.49~~ | |
| | | | | | | 53 43 | 52.01 | | | ~~50.49~~ | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | +18.94 | 1 12.2 | 22.9 | 35.1 | 41 1 17.55 | 41 | 30.80 | | 40 | 53 43 ~~20.28~~ | |
| | 1.27738 | 1.27738 | | | | 53 43 | 40.64 | | | 25.70 | +11.67 |
| d | 9.90648 | 9.77199 | | | | | ~~20.36~~ | | | − 9 | 56 |
| | 1.30881n | 1.17432n | | | | | −14.94 | | | − 39 | |
| $((\delta) - D)\frac{d'}{100}$ | ~~9.77199~~ | | | | | | | | | +1174 | |
| −4.09 $\delta_2$ | | 43 40.30 | | 43 44.5 | | | | | | + 35 | |
| +16.61 | | | | | | | | | | −9.40 | |
| | | | | | 24 | | | | | 43 27.86 | |
| | | 4 4.7 | 15.5 | 20.2 | 4 10.10 | 58 | 38.25 | | 20 | | |
| | | | | | | 52 0 | 47.76 | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | +15.15 | 4 14.0 | 24.5 | 38.5 | 24 4 1925 | 58 | 29.10 | | 20 | 52 0 ~~23.02~~ | |
| | 1.18041 | 1.18041 | | | | 52 0 | 38.94 | | | 26.51 | +8.87/2 |
| d | 9.89663 | 9.78918 | | | | | ~~15.92~~ | | | − 6 | |
| | 1.20199n | 1.09454n | | | | | −12.43 | | | − 129 | |
| $((\delta) - D)\frac{d'}{100}$ | 9. | | | | | | | | | + 9.92 | |
| −3.99 $\delta_2$ | | 50 0.02 | | 0 43.8 | | | | | | + 30 | |
| +16.91 | | | | | | | | | | −8.40 | |
| | | | | | 44 | | | | | 0 26.93 | |
| | | 4 47.3 | 56.5 | 103.8 | 4 5790 | 37 | 56.45 | | 40 | | |
| | | | | | | 53 40 | 5.96 | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | +37.06 | 4 44.5 | 55.0 | 99.5 | 44 4 4970 | 37 | 58.60 | | 40 | 53 39 ~~28.63~~ | |
| | 1.56891 | 1.56891 | | | | 53 40 | 8.44 | | | 39.16 | +10.83 |
| d | 9.90611 | 9.77268 | | | | | ~~39.87~~ | | | − 36 | 18 |
| | 1.59997n | 1.46654n | | | | | −29.28 | | | − 144 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | +1168 | |
| −4.03 $\delta_2$ | | 52 22.61 | | 39 57.8 | | | | | | + 35 | |
| +17.02 | | | | | | | | | | −8.60 | |
| | | | | | 49 | | | | | 39 40.74 | |
| | | 4 50.9 | 59.5 | 10.4 | 4 5520 | 32 | 53.15 | | 45 | | |
| | | | | | | 53 35 | 2.66 | | | | |
| d | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | +40.56 | 4 43.4 | 53.1 | 96.5 | 49 4 4825 | 33 | 52.10 | | 45 | 53 34 ~~26.42~~ | |
| | 1.60810 | 1.62810 | | | | 53 35 | 9.94 | | | 37.84 | +10.10 |
| d | 9.90565 | 9.77353 | | | | | ~~43.52~~ | | | − 43 | 05 |
| | 1.63870n | 1.50658n | | | | | −32.10 | | | − 144 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | +1162 | |
| −4.02 $\delta_2$ | | 53 53.12 | | 34 56.4 | | | | | | + 35 | |
| +17.09 | | | | | | | | | | −8.60 | |
| | | | | | | | | | | 24 39.09 | |

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Date$_1$ = 1876, Apr. 10 Observer / Recorder

Date$_2$ = 1876, Apr. 11 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | ″ | | | | | | | | | m ″ | | |
| 9 | 54 | 58 53 59 | 7.8 | | | | | | | | | | |
| | 53 | 50.6 54 40 | 8.2 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | | | 7.8 | 53 32.0 34.4 37.2 34.53 | 54 14.6 | 18.2 | 21.6 | 25.1 | 28.8 + 56.81 | 54 | 21.66 +57.24 − 43 | | |
| | κ | | | | | | | | | 55 | 18.47 − 3.07 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | 15.40 | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| Apr. 10 | | | | | | | | | | | | | |
| 9 | 50 | 38 52 39 | 8.4 | | | | | | | | | | |
| | 49 | 30.9 38.9 2 | 8.8 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| Apr. 10 | | | | | | | | | | | | | |
| | 56 | 53 51 10 | 8.2 | | | | | | | | | | |
| | 55 | 50.5 14.6 | 7.0 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| Apr. 11 | | | | | | | | | | | | | |
| 9 | 20 | 12 58 33 | 7.5 | 9 19 25.9 28.6 30.6 28.37 | 19 32.3 | 35.6 | 38.9 | 42.1 | 45.4 + 56.86 | 19 | 38.86 +57.24 − 38 | | |
| | 19 | 6.4 39.1 | 7.7 | | | | | | | 20 | 35.72 − 2.60 | | |
| | κ | | | | | | | | | | 33.12 | | |
| | ((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) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |

Single Observations.

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Runs

| | $T_m - T_S$ | A | C | Sum | 28 | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 3 38.6 | 47.6 | 86.2 | 3 | 43.10 | 54′ | 5.25 | | 25 | | |
| d | | | | | | | 53 56 | 14.76 | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | | |
| | | | | | 28 | | | | | | | |
| | +47.13 | 3 19.3 | 30.0 | 49.3 | 3 | 24.65 | 54 | 23.70 | | 25 | 53 55 ~~42.73~~ | |
| | 1.67330 | 1.67330 | | | | | 53 56 | 33.54 | | | 56.56 | +10.80 |
| d | 9.90768 | 9.76974 | | | | | | ~~58.81~~ | | | − 57 | 75 |
| $((\delta) - D)\frac{d'}{100}$ | 1.70593 | 1.56799m | | | | | | − 36.98 | | | − 102 | |
| | | | | | | | | | | | + 11.99 | |
| −4.02 $\delta_2$ | | | | | | | | | | | + 40 | |
| +17.15 | | 55 11.38 | | 56 16.0 | | | | | | | − 8.50 | |
| | | | | | | | | | | | 55 58.81 | |
| d | | | | | | | | | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | | |
| | | | | | 45 | | | | | | | |
| | | 0 14.3 | 24.9 | 39.2 | 0 | 19.60 | 37 | 28.75 | | 45 | | |
| d | | | | | | | 52 39 | 38.26 | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | | |
| | | | | | 15 | | | | | | | |
| | | 0 21.3 | 32.7 | 54.0 | 0 | 27.00 | 7 | 21.35 | | 15 | | |
| d | | | | | | | 51 9 | 30.86 | | | | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | | |
| | | | | | 50 | | | | | | | |
| | +10.49 | 0 30.0 | 42.6 | 72.6 | 0 | 36.30 | 32 | 12.05 | | 50 | 50 34 ~~11.04~~ | |
| | 1.02078 | 1.02078 | | | | | 50 34 | 21.89 | | | 13.01 | ~~+8.51~~ |
| d | 9.88782 | 9.80290 | | | | | | ~~10.80~~ | | | − 3 | 46 |
| $((\delta) - D)\frac{d'}{100}$ | 1.03355 | 0.94863m | | | | | | − 8.88 | | | − 18 | |
| | | | | | | | | | | | + 842 | |
| −4.11 $\delta_2$ | | | | | | | | | | | + 30 | |
| +15.39 | | 20 29.01 | | 34 26.6 | | | | | | | − 10.30 | |
| | | | | | | | | | | | 34 1117 | |
| 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$_1$ = 1876, May 1 m = −.31 Observer W.A.R. Recorder J.F.M. Date$_2$ = 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 58 22 54 33 | 7.2 | 10 57 20.3 23.6 26.0 2830 | 57 23.1 | 26.5 | 30.1 | 33.8 | 37.3 | + 68.98 | 57 | 30.16 +69.42 − 44 | | |
| | 57 21.1 38.0 | 7.1 | | | | | | | | 58 | 39.14 − 3.12 | | |
| | κ | | | | | | | | | | 36.02 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | 59 19 54 23 | 8.0 | 58 7.8 10.2 13.1 1037 | 58 20.4 | 23.9 | 27.3 | 30.9 | 34.4 | + 68.98 | 58 | 27.38 +69.42 − 44 | | |
| | 58 19.0 27.7 | 8.0 | | | | | | | | 59 | 36.36 − 3.14 | | |
| | κ | | | | | | | | | | 33.22 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| | 59 52 54 29 | 9.2 | 59 0.4 4.0 8.3 423 | 59 20.6 | 24.1 | 27.8 | 31.4 | 34.9 | + 68.98 | 59 | 27.78 +69.42 − 44 | | |
| | 59 ~~57.2~~ ~~33.0~~ 150 | 9.2 | | | | | | | | 0 | 36.76 − 3.14 | | |
| | κ | | | | | | | | | | 33.62 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| 11 | 1 38 54 22 | 8.4 | 11 0 14.8 17.4 21.0 1773 | 0 41.3 | 45.0 | 48.5 | 52.0 | 55.4 | + 68.98 | 0 | 48.44 +69.42 − 44 | | |
| | 0 38.3 27.2 | 8.5 | | | | | | | | 1 | 57.42 − 3.14 | | |
| | κ | | | | | | | | | | 54.28 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| | 4 6 54 50 | 6.8 | 1 30.4 33.0 36.6 3333 | 1 19.2 | 23.0 | 26.4 | 30.3 | 33.7 | + 68.98 | 1 | 26.52 +69.42 − 44 | | |
| | ~~2 6.7 56.0~~ 1 19.6 53.3 | 7.0 | | | | | | | | 2 | 35.50 | −3.18 | 32.32 |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | 6.9 | 2 48.0 50.6 53.9 3283 | 3 5.7 | 9.3 | 12.8 | 16.3 | 19.9 | + 68.98 | 3 | 12.80 +69.42 − 44 | | |
| | 3 6.7 54 56.0 | | | | | | | | | 4 | 21.78 | −3.19 | 18.59 |
| | $\alpha_1$ | | | | | | | | | | | | |
| | 12 5 54 22 | 9.0 | 10 35.6 38.8 41.3 3857 | 11 6.7 | 10.3 | 14.0 | 17.3 | 20.7 | + 68.98 | 11 | 13.80 +69.42 − 44 | | |
| | 11 5.4 27.6 | 8.8 | | | | | | | | 12 | 22.78 − 3.21 | | |
| | κ | | | | | | | | | | 19.57 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| | 22 17 49 56 | 8.9 | 21 13.4 19.0 21.1 1850 | 21 18.6 | 21.7 | 24.8 | 28.2 | 31.4 | + 69.05 | 21 | 24.74 +69.42 − 37 | | |
| | 21 22.0 50 1.6 | 9.0 | | | | | | | | 22 | 33.99 − 3.01 | | |
| | κ | | | | | | | | | | 30.98 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | 34 40 54 52 | 9.6 | 33 25.0 28.1 32.9 2867 | 33 41.3 | 44.8 | 48.5 | 51.9 | 55.3 | + 68.98 | 33 | 48.36 +69.42 − 44 | | |
| | 33 44.3 37.4 | 9.5 | | | | | | | | 34 | 57.34 − 3.38 | | |
| | κ | | | | | | | | | | 53.96 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| | 35 30 54 20 | 8.7 | 34 16.6 19.4 23.5 1983 | 34 32.7 | 36.2 | 39.7 | 43.2 | 46.7 | + 68.98 | 34 | 39.70 +69.42 − 44 | | |
| | 34 34.6 25.9 | 9.0 | | | | | | | | 35 | 48.68 − 3.35 | | |
| | κ | | | | | | | | | | 45.33 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | 38 11 54 45 | 9.0 | 36 58.4 07 3.7 097 | 37 11.7 | 15.3 | 19.0 | 22.5 | 26.0 | + 68.98 | 37 | 18.40 +69.42 − 44.4 | | |
| | 37 16.0 37.0 | 9.2 | | | | | | | | 38 | 24.88 − 3.39 | | |
| | κ | | | | | | | | | | 24.49 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |

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May 1 .+2' 15.68 −.30 +.06 +.06



Runs

| | $T_m - T_S$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ' |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +6.86 | 3 48.0 | 58.3 | 106.3 | 53 3' 53.15" | 28' | 55.20 | | 50 | | |
| | | 0.83632 | | | | 54 31 | 10.88 | | | 54 31 5.57 | +11.76 |
| d | | 9.76378 | | | | | − 5.31 | | | − 1 | 82 |
| | | 0.72505n | | | | | | | | − 117 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | +1254 | |
| | | | | | | | | | | + 40 | |
| −3.57 $\delta_1$ | | 58 32.45 | | 31 30.4 | | | | | | − 6.30 | |
| +19.31 | | | | | | | | | | 31 11.09 | |
| | +17.01 | 3 50.3 | 2.4 | 112.7 | 3 56.35 | 18 28 | 32.80 | | 0 | 54 ~~30~~ ~~49.21~~ | |
| | 1.23070 | 1.23070 | | | | 54 31 | 7.68 | | | 20 54.51 | +11.78 |
| d | 9.91078 | 9.76378 | | | | 21 | −~~18.47~~ | | | − 7 | 6 |
| | 1.26643n | 1.11943n | | | | | −13.17 | | | − 117 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | + 12.54 | |
| | | | | | | | | | | + 40 | |
| −3.56 $\delta_2$ | | 59 29.66 | | 21 19.4 | | | | | | −6.20 | |
| +19.36 | | | | | 56 | | | | | 21 ~~30~~ ~~6007~~ 5.07 | |
| | +23.55 | 1 48.3 | 0.7 | 109.0 | 1 54.50 | 25 | 53.85 | | 55 | 54 27 ~~43.98~~ | |
| | 1.37199 | 1.37199 | | | | 54 28 | 9.53 | | | 51.28 | +12.14 |
| d | 9.91051 | 9.76431 | | | | | −~~25.55~~ | | | − 15 | 20 |
| | 1.40745n | 1.26125n | | | | | −18.25 | | | − 57 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | +12.46 | |
| | | | | | | | | | | + 40 | |
| −3.55 $\delta_1$ | | 0 30.07 | | 28 16.8 | | | | | | −6.10 | |
| +19.39 | | | | | 3 | | | | | 27 57.38 | |
| | +30.71 | 3 42.1 | 54.4 | 96.5 | 3 48.25 | 19 | 0.10 | | 0 | 54 20 ~~42.51~~ | |
| | 1.48728 | 1.48728 | | | | 54 21 | 15.78 | | | 51.91 | +11.38 |
| d | 9.90987 | 9.76554 | | | | | −~~33.27~~ | | | − 24 | 44 |
| | 1.52210n | 1.37777n | | | | | −23.87 | | | − 114 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | +12.36 | |
| | | | | | | | | | | + 40 | |
| −3.54 $\delta_2$ | | 1 50.74 | | 21 16.8 | | | | | | −6.00 | |
| +19.41 | | | | | 38 | | | | | 20 57.35 | |
| | −6.81 | 3 28.6 | 41.0 | 89.6 | 3 34.87 | 44 | 13.55 | | 35 | 54 46 ~~36.65~~ | 49 ~~0.94~~ |
| | 0.83315n | 0.83315n | | | | 54 46 | 29.23 | | | 34.47 | 8.00 +12.13 +12.94 |
| d | 9.91212 | 9.76111 | | | | | + ~~7.42~~ | | | − 1 | − 13 19 7 |
| −.354 | 0.87022 | 0.71921 | | | 35 | | + 6.24 | | | − 108 | − 18 |
| +1.946 $((\delta) - D)\frac{d'}{100}$ | +21.97 | 0 32.8 | 45.5 | 28.3 0 | 39.15 | 47 | 9.20 | | 35 | +1282 | +1282 |
| | 1.34183 | 1.34183 | | | | 54 49 | ~~44.88~~ | | | + 40 | + 40 |
| $\delta_1$ | 9.91239 | 9.76057 | 2 28.78 | 47 0.0 | | | −~~23.94~~ | | | − 6.10 | − 5.90 |
| −3.53 | 1.37913n | 1.22735n | 47 5.06 | 49 34.5 | | | −16.88 | | | 46 40.56 | 49 1.507 |
| +17.43 | +35.23 | 4 17.4 | 28.8 | 46.24 | 2310 | 18 | 25.25 | | 0 | 54 20 ~~2.76~~ | |
| | 1.54691 | 1.54691 | | | | 54 20 | 40.93 | | | 13.55 | +11.09 |
| d | 9.90987 | 9.76554 | | | | | −~~35.17~~ | | | − 33 | 15 |
| | 1.58173n | 1.43740n | | | | | −27.38 | | | − 132 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | +1234 | |
| | | | | | | | | | | + 40 | |
| −3.46 $\delta_2$ | | 12 16.11 | | 20 39.2 | | | | | | − 3.10 | |
| +19.62 | | | | | 29 | | | | | 20 1960 | |
| | + 6.444 | 4 29.1 | 41.9 | 71.0 | 4 35.50 | 53 | 12.85 | | 25 | 49 55 ~~21.96~~ | |
| | 0.80889 | 0.80889 | | | | 49 55 | 28.53 | | | 23.00 | + 6.57 |
| d | 9.88372 | 9.80882 | | | | | − ~~6.57~~ | | | − 1 | 63 |
| | 0.81756n | 0.74266n | | | | | − 5.53 | | | − 138 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | + 771 | |
| | | 27.65 0 | | | | | | | | + 25 | |
| −3.33 $\delta_1$ | | 22 ~~34.31~~ | | 55 46.2 | | | | | | −3.20 | |
| +19.79 | | | | | 34 | | | | | 55 2643 | |
| | +19.69 | 4 25.2 | 37.2 | 62.4 | 4 31.20 | 48 | 17.15 | | 30 | 54 50 ~~41.36~~ | |
| | 1.29425 | 1.29425 | | | | 54 50 | 32.83 | | | 17.71 | +11.83 |
| d | 9.91257 | 9.76021 | | | | | −~~21.47~~ | | | − 10 | 9 |
| | 1.33177n | 1.17941n | | | | | −15.12 | | | − 135 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | +1288 | |
| −3.28 | | 50.68 | | | | | | | | + 40 | |
| $\delta_2$ +1793 | | 34 ~~57.24~~ | | 50 46.1 | | | | | | −3.40 | |
| | | | | | 6 | | | | | 50 26.20 | |
| | +19.87 | 1 13.0 | 25.5 | 38.5 | 1 19.25 | 16 | 29.10 | | 5 | 54 18 ~~23.26~~ | |
| | 1.29820 | 1.29820 | | | | 54 18 | 44.78 | | | 29.33 | +12.28 |
| d | 9.90969 | 9.76540 | | | | | −~~21.52~~ | | | − 10 | 8 |
| | 1.33284n | 1.18905n | | | | | −15.45 | | | − 39 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | +12.31 | |
| | | 42.06 | | 3 | | | | | | + 40 | |
| −3.27 $\delta_1$ | | 35 ~~48.60~~ | | 18 58.4 | | | | | | −3.20 | |
| +19.94 | | | | | 42 | | | | | 18 38.41 | |
| | +17.93 | 2 4.1 | 15.9 | 20.0 | 2 10.00 | 40 | 38.35 | | 40 | 54 42 ~~34.17~~ | |
| | 1.25358 | 1.25358 | | | | 54 42 | 54.03 | | | 40.22 | +12.48 |
| d | 9.91185 | 9.76164 | | | | | − ~~19.52~~ | | | − 8 | 8 |
| | 1.24038n | 1.14017n | | | | | −13.81 | | | − 66 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | +12.76 | |
| | | 21.24 | | | | | | | | + 40 | |
| −3.25 $\delta_2$ | | 38 ~~27.74~~ | | 43 9.7 | | | | | | −3.00 | |
| +19.96 | | | | | | | | | | 42 49.70 | |

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Date$_1$ = 1876, May 1 Observer W.A.R. Recorder J.F.M. 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 40 10 | 54 0 | 9.3 | 11 38 41.2 | 39 10.7 | 14.3 | 17.6 | 21.2 | 24.5 | 39 | 1766 | | |
| | 39 15.7 | 5.3 | 8.3 | 41.20 | | | | | + 68.99 | | +69.42 | | |
| | κ | | | | | | | | | | − 43 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | 8.6 | 38 45.2 | 39 11.4 | 15.2 | 18.7 | 22.0 | 25.5 | 40 | 26.65 | − 3.42 | |
| | | | | 45.20 | | | | | + 68.99 | | 1856 | 23.30 | |
| | $\alpha_1$ | | | | | | | | | | +69.42 | | |
| | | | | | | | | | | | − 43 | | |
| | | | | | | | | | | 40 | 27.55 | − 3.42 | |
| | | | | | | | | | | | | 24.20 | |
| | 41 50 | 53 56 | 9.7 | 40 47.6 | 40 59.0 | 2.8 | 6.2 | 9.5 | 13.0 | 41 | 0.50 | | |
| | 40 54.7 | 54 1.6 | 9.5 | 50.7 | | | | | + 69.00 | | +69.42 | | |
| | κ | | | 53.6 | | | | | | | − 42 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 50.63 | | | | | | 42 | 15.50 | | |
| | | | | | | | | | | | − 3.32 | | |
| | $\alpha_2$ | | | | | | | | | | 12.18 | | |
| | 43 58 | 54 12 | 8.7 | 42 48.6 | 42 59.8 | 1.4 | 5.1 | 8.7 | 12.1 | 43 | 502 | | |
| | 43 2.1 | 18.0 | 8.8 | 51.7 | | | | | + 68.99 | | +69.42 | | |
| | κ | | | 53.1 | | | | | | | − 43 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 51.80 | | | | | | 44 | 14.01 | | |
| | | | | | | | | | | | − 3.38 | | |
| | $\alpha_1$ | | | | | | | | | | 10.63 | | |
| | 45 39 | 54 30 | 8.3 | 44 4.3 | 44 38.2 | 41.7 | 45.2 | 48.7 | 52.3 | 44 | 4522 | | |
| | 44 45.5 | 35.3 | 8.7 | 9.4 | | | | | + 68.98 | | +69.42 | | |
| | κ | | | 12.3 | | | | | | | − 44 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 9.67 | | | | | | 45 | 54.20 | | |
| | | | | | | | | | | | − 3.41 | | |
| | $\alpha_2$ | | | | | | | | | | 50.79 | | |
| | 47 31 | 54 5 | 9.4 | 46 16.4 | 46 38.7 | 37.1 | 40.4 | 44.1 | 47.5 | 46 | 4056 | | |
| | 46 37.5 | 11.0 | 9.2 | 20.6 | | | | | + 68.98 | | +69.42 | | |
| | κ | | | 23.2 | | | | | | | − 43 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 20.07 | | | | | | 47 | 49.55 | | |
| | | | | | | | | | | | − 3.39 | | |
| | $\alpha_1$ | | | | | | | | | | 46.16 | | |
| | 50 50 | 54 15 | 8.3 | 49 20.7 | 49 51.6 | 53.0 | 56.5 | 1.9 | 5.6 | 49 | 5852 | | |
| | 49 56.9 | 21.9 | 8.9 | 22.7 | | | | | + 68.99 | | +69.42 | | |
| | κ | | | 25.4 | | | | | | | − 43 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 22.77 | | | | | | 51 | 7.51 | | |
| | | | | | | | | | | | − 3.41 | | |
| | $\alpha_2$ | | | | | | | | | | 4.10 | | |
| | 53 16 | 53 55 | 9.0 | 51 45.6 | 52 17.1 | 20.8 | 24.1 | 27.7 | 31.3 | 52 | 2420 | | |
| | 52 22.7 | 54 0.5 | 8.8 | 48.7 | | | | | + 68.99 | | +69.42 | | |
| | κ | | | 50.20 | | | | | | | − 43 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 48.77 | | | | | | 53 | 33.19 | | |
| | | | | | | | | | | | − 3.40 | | |
| | $\alpha_1$ | | | | | | | | | | 29.79 | | |
| | 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

+.06

| | $T_m - T_S$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +36.46 | 1 8.6 | 20.4 | 290 | 26 14.50 | 56′ | 33.85 | | 25 | 2093 | 23.36 |
| 1.56182 | ~~1.56182~~ | ~~1.56182~~ | | | | 58 | 49.53 | | | 53 58 2163 | 24.07 +11.69 +11.74 |
| 9.76957 d | ~~9.91328~~ | ~~9.45677~~ | | | | 53 | − ~~37.65~~ | −2860 | | − 34 | − 29. 75 |
| 1.45634 | ~~1.54005~~ | ~~1.44554~~ | | | | | ~~27.90~~ | | | − 36 | − 36 |
| ((δ) − D) $\frac{d'}{100}$ | +33.36 | | | | | 56 | 33.85 | | | +11.99 +13.03 | +1303 11.99 |
| 1.52323 | ~~1.52323~~ | ~~1.52323~~ | | | | 58 | 49.53 | | | + 40 | + 40 |
| 9.76957 $\delta_1$ | ~~9.91328~~ | ~~9.45677~~ | 40 20.97 | 58 52.5 | | 53 | − ~~36.43~~ | −26.17 | | 58 3008 2.90 | −2.90 |
| 1.41775 | ~~1.56146~~ | ~~1.40675~~ | | | 3 | | ~~26.52~~ | | | | 58 32.56 |
| −3.23 | + ~~5~~7.87 | 3 4.9 | 16.6 | 21.5 3 | 10.75 | 19 | 37.60 | | 0 | 53 ~~20~~ 58.85 | 21 40.65 |
| +13.98 | 1.70246 | ~~1.20646~~ | | | | 53 21 | 53.28 | | | 21 ~~12.51~~ | − 7 +10.68 |
| d | 9.90443 | ~~9.77575~~ | | | | | ~~54.43~~ | | | − | − 96 74 |
| | 1.73584 | ~~1.60162~~ | | | | | ~~44.47~~ | | | | +11.31 |
| ((δ) − D) $\frac{d'}{100}$ | + 15.87 | | | | | | −12.63 | | | | + 40 |
| | 1.20058 | | | | | | | | | | − 2.40 |
| $\delta_2$ | 9.77575 | | | | | | | | | | 21 48.99 |
| | 1.10128 | | | | 15 | | | | | | |
| | +13.22 | 0 3.8 | 16.0 | 19.8 0 | 9.90 | 7 | 38.45 | | 15 | 54 9 ~~39.81~~ | |
| | 1.12123 | 1.12123 | | | | 54 9 | 54.13 | | | 43.81 | +12.49 |
| d | 9.90887 | 9.46747 | | | | | ~~14.29~~ | | | − 5 | 55 |
| | 1.15505 | 1.01365 | | | | | 10.32 | | | − 3 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 12.17 | |
| −3.20 | | | | | | | | | | + 40 | |
| +20.01 $\delta_1$ | | 44 7.43 | | 10 14.0 | | | | | | − 2.40 | |
| | | | | | 56 | | | | | 9 53.96 | |
| | +35.55 | 1 13.5 | 26.0 | 39.5 1 | 19.75 | 26 | 28.60 | | 55 | 54 28 ~~5.40~~ | |
| | 1.55084 | 1.55084 | | | | 54 28 | 44.28 | | | 16.74 | +12.78 |
| d | 9.91060 | 9.46413 | | | | | ~~38.58~~ | | | − 32 | 24 |
| | 1.58634 | 1.43992 | | | | | −27.54 | | | − 37 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +12.49 | |
| −3.19 | | | | | | | | | | + 40 | |
| +20.02 $\delta_2$ | | 45 47.60 | | 28 46.7 | | | | | | − 2.80 | |
| | | | | | 21 | | | | | 28 26.68 | |
| | +20.49 | 1 18.7 | 31.1 | 49.8 1 | 24.90 | 1 | 23.45 | | 20 | 54 3 ~~17.01~~ | |
| | 1.31154 | 1.31154 | | | | 54 3 | 39.13 | | | 23.10 | +11.92 |
| d | 9.90832 | 9.46852 | | | | | ~~22.12~~ | | | − 10 | 8 |
| | 1.34481 | 1.20501 | | | | | −16.03 | | | − 42 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +1204 | |
| | | | | | | | | | | + 40 | |
| −3.17 $\delta_1$ | | 47 42.99 | | 3 53.1 | | | | | | − 200 | |
| +20.03 | | | | | 16 | | | | | 3 3308 | |
| | +35.75 | 4 59.3 | 11.7 | 131.0 5 | 5.50 | 12 | 42.85 | | 5 | 54 14 ~~19.84~~ | |
| | 1.55328 | 1.55328 | | | | 54 14 | 58.53 | | | 30.68 | +10.78 |
| d | 9.90933 | 9.46660 | | | | | ~~38.69~~ | | | − 33 | 84 |
| | 1.58756 | 1.44483 | | | | | −27.85 | | | − 153 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +1224 | |
| −3.14 | | | | | | | | | | + 40 | |
| +20.04 $\delta_2$ | | 51 0.96 | | 14 59.8 | | | | | | − 1.80 | |
| | | | | | 31 | | | | | 14 39.72 | |
| | +35.43 | 1 35.9 | 46.9 | 82.8 1 | 41.40 | 51 | 6.95 | | 30 | 53 52 ~~44.49~~ | |
| | 1.54937 | 1.54937 | | | | 53 53 | 22.63 | | | 54.79 | +11.45 |
| d | 9.90731 | 9.77043 | | | | | ~~36.16~~ | | | − 33 | 51 |
| | 1.58163 | 1.44475 | | | | | −27.84 | | | − 51 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +1189 | |
| −3.12 | | | | | | | | | | + 40 | |
| +20.05 $\delta_1$ | | 53 26.67 | | 53 24.8 | | | | | | − 1.50 | |
| | | | | | | | | | | ~~53~~ ~~5480~~ 4.80 | |
| | | | | | | | | | | 53 | |
| 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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Date$_1$ = 1876, May 23 $n = -.47$ Observer W.A.R. Recorder J.F.M. Date$_2$ = 1876, May 24 $n = -.47$ Observer W.A.R. Recorder J.F.M.

| Star. | α | c = −.68 | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 12 | 51 | 53 9 | 8.3 | | | | | | | | m s | | |
| 11 | 59.9 | | 14.9 | 8.2 | | | | | | | | | | |
| κ | | | | | | | | | | | | | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | | |
| $\alpha_1$ | | | | | | | | | | | | | | |
| | | | | 8.3 | 13 8.9 | 13 34.8 | 38.4 | 41.8 | 45.1 | 48.5 | 13 | 41.72 | | |
| | | | | | 12.0 | | | | | | | −36.59 | | |
| κ | | | | | 14.0 | | | | | | | − 62 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | 11.63 | | | | | − 37.34 | | − 13 | | |
| $\alpha_2$ | | | | | | | | | | | 13 | 4.38 | | |
| | | | | | | | | | | | | − 3.00 | | |
| | | | | | | | | | | | | 1.38 | | |
| 14 | 4 | 54 | 0 | 9.3 | 14 42.4 | 14 49.5 | 52.9 | 56.3 | 0.1 | 3.2 | 14 | 56.40 | | |
| 13 | 13.1 | | 5.2 | 9.8 | 45.3 | | | | | −37.47 | | −36.67 | | |
| κ | | | | | 48.6 | | | | | | | − .66 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | 14 45.43 | | | | | | | − .14 | | |
| $\alpha_1$ | | | | | | | | | | | 14 | 18.93 | | |
| | | | | | | | | | | | | − 3.21 | | |
| | | | | | | | | | | | 14 | 15.72 1891 | | |
| | | | | 9.4 | 14 32.4 | 14 49.4 | 53.0 | 56.3 | 59.5 | 3.3 | 14 | 56.30 | | |
| | | | 1 | | 32.40 | | | | | | | −36.59 | | |
| κ | | | | | | | | | | | | − .65 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | − 37.38 | | − .14 | | |
| $\alpha_2$ | | | | | | | | | | | 14 | 18.92 | | |
| | | | | | | | | | | | | − 3.05 | | |
| | | | | | | | | | | | | 15.87 | | |
| 17 | 4 | 53 | 54 | 8.9 | | | | | | | | | | |
| 16 | 13.4 | | 5.9 | 8.3 | | | | | | | | | | |
| κ | | | | | | | | | | | | | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | | |
| $\alpha_1$ | | | | | | | | | | | | | | |
| | | | | 8.7 | 17 15.2 | 17 47.4 | 51.1 | 54.5 | 58.0 | 1.6 | 17 | 54.52 | | |
| | | | | | 18.2 | | | | | | | −36.59 | | |
| κ | | | | | 21.6 | | | | | | | − 64 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | 18.33 | | | | | − 37.37 | | − 14 | | |
| $\alpha_2$ | | | | | | | | | | | 17 | 17.15 | | |
| | | | | | | | | | | | | −3.07 | | |
| | | | | | | | | | | | | 14.08 | | |
| 31 | 59 | 49 | 56 | 9.0 | 32 29.6 | 32 45.7 | 48.6 | 51.8 | 55.0 | 58.2 | 32 | 57.86 | | |
| 31 | 10.8 | 50 | 1.2 | 9.0 | 33.8 | | | | | | | −36.67 | | |
| κ | | | | | 36.4 | | | | | | | − 56 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | 33.27 | | | | | − 37.36 | | − 13 | | |
| $\alpha_1$ | | | | | | | | | | | 32 | 14.50 | | |
| | | | | | | | | | | | | − 2.96 | | |
| | | | | | | | | | | | | 11.54 | | |
| | | | | 9.2 | 32 33.7 | 32 45.7 | 48.6 | 51.7 | 54.9 | 58.1 | 32 | 57.68 | | |
| | | | | | 36.7 | | | | | | | −36.59 | | |
| κ | | | | | 39.4 | | | | | | | − 56 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | 36.60 | | | | | − 37.28 | | − 13 | | |
| $\alpha_2$ | | | | | | | | | | | 32 | 14.40 | | |
| | | | | | | | | | | | | − 2.94 | | |
| | | | | | | | | | | | | 11.46 | | |
| 35 | 41 | 50 | 23 | 9.2 | 35 46.8 | 36 1.6 | 4.6 | 7.7 | 11.2 | 14.7 | 36 | 7.96 | | |
| 34 | ~~1.40~~ | | ~~28.5~~ | 9.4 | 50.0 | | | | | | | −36.67 | | |
| κ | 27.5 | | | | 53.2 | | | | | | | − 57 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | 50.00 | | | | | − 37.37 | | − 13 | | |
| $\alpha_1$ | | | | | | | | | | | 35 | 30.59 | | |
| | | | | | | | | | | | | − 3.00 | | |
| | | | | | | | | | | | | 27.59 | | |
| | | | | 9.4 | 35 45.4 | 36 1.4 | 4.7 | 8.0 | 11.1 | 14.5 | 36 | 7.94 | | |
| | | | | | 48.0 | | | | | | | −36.59 | | |
| κ | | | | | 50.5 | | | | | | | − 57 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | 47.97 | | | | | − 37.29 | | − 13 | | |
| $\alpha_2$ | | | | | | | | | | | 35 | 30.65 | | |
| | | | | | | | | | | | | − 2.98 | | |
| | | | | | | | | | | | | 27.67 | | |

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1876phae.proj.1600R



May 23 +2' 22.89 −.28 +1.59
24 +2' 24.97 −.28 +1.65

+1.59
+1.65

Runs

| | $T_m - T_S$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2 10.5 | 25.6 | 36.1 | 1m 2′ 18.05 | 5′ 7 | 30.30 53.19 | | 15 | | |
| d | | | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | +30.08 | | | | 1m | | | | | | |
| 0.12193 | +2.09 | 2 9.6 | 25.9 | 35.5 | 2 17.75 | 5 | 30.60 | | 15 | 53 7 ~~53.86~~ | 53 7 31.68 |
| 1.47824 | 0.32015 | 0.32015 | | | | 53 7 | 55.57 | | | 53.91 +10.47 | |
| ~~0.90311~~ | 9.90311 | 9.77812 | | | | | − 2.27 | | | − 10 12.12 | − 0 |
| 9.77812 | 0.34451 | 0.22020 m | | | | | ~~+1.66~~ | | | − 64 | − 64 |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | − 2.389 | | | + 10.81 | + 10.81 |
| 1.37829 m | | | | | | | | | | + .30 | + .30 |
| $\delta_2$ | | 12 58.41 | | 8 0.2 | | | | | | − 3.60 | − 3.60 |
| −2.97 | | | | | 27 | | | | | 8 2.43 | 53 7 40.20 |
| +2.002 | | | | | | | | | | | |
| | +10.97 | 1 54.8 | 8.6 | 123.4 | 2 1.70 | 3 55 | 46.65 | | 25 | 53 58 1.00 | 53 58 2.59 1.00 |
| | 1.04021 | | | | | 54 58 | 9.54 | | | +1.59 | − .06 +1.72 |
| d | 9.76957 | | | | | − | 8.54 | | | | − .56 + 13.30 |
| | 0.12193 m | | | | | | | | | | + 11.93 |
| ((δ) − D) $\frac{d'}{100}$ | 0.93171 m | | | | | | | | | | + .40 |
| −2.96 $\delta_1$ | | | | | | | | | | | − 3.50 |
| +2.002 | | 14 12.95 | | 58 30.8 | 26 | | | | | 58 | 53 58 10.80 |
| | +23.90 | 1 42.0 | 58.5 | ~~100.5~~ + ~~58.5~~ | 1 30.25 | 3 55 | 58.10 | | 25 | 53 ~~57~~ ~~57.46~~ | |
| | 1.37840 | 1.37840 | | | | 54 58 | 23.07 | | | 4.45 +11.39 | |
| d | 9.90777 | 9.76957 | | | | | − 2.959 | | | − 15 13.04 | |
| | ~~1.41112~~ | 1.26990 m | | | | | − 18.62 | | | − 50 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.40810 m | | | | | | | | | + 1164 | |
| −2.98 $\delta_2$ | | | | | | | | | | + 40 | |
| +2.002 | | 14 12.91 | | 58 33.8 | 32 | | | | | − 3.70 | |
| | | | | | | | | | | 57 13.78 9 | |
| | | 2 14.1 | 27.9 | 42.0 | 2 21.00 | 50 | 27.35 | | 30 | 58 | |
| d | | | | | | 53 52 | 50.24 | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | 32 | | | | | | |
| | +36.19 | 2 11.1 | 26.7 | 37.8 | 2 18.90 | 50 | 29.45 | | 30 | 53 52 ~~15.71~~ | |
| | 1.55859 | 1.55859 | | | | 53 52 | 54.42 | | | 26.17 + ~~1.98~~ | |
| d | 9.90731 | 9.77043 | | | | | − ~~38.71~~ | | | − 35 12.63 | |
| | ~~1.46590~~ | 1.45095 m | | | | | − 26.25 | | | − 64 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.58783 m | | | | | | | | | + 1157 | |
| −2.94 $\delta_2$ | | | | | | | | | | + 40 | |
| +2.000 | | 17 11.14 | | 52 55.3 | 31 | | | | | − 3.50 | |
| | | | | | | | | | | 52 35.30 | |
| | +18.589 | 0 59.1 | 15.8 | 134.9 | 1 7.45 | 51 | 40.90 | | 30 | 49 53 ~~44.96~~ | |
| | 1.26928 | 1.26928 | | | | 49 54 | 3.79 | | | 47.93 +7.51 | |
| d | 9.88362 | 9.80897 | | | | | − ~~16.83~~ | | | − 10 9.10 | |
| | ~~1.24785~~ | 1.20018 m | | | | | − 15.86 | | | − 31 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.27483 m | | | | | | | | | + 767 | |
| −2.85 $\delta_1$ | | | | | | | | | | + 25 | |
| +19.86 | | 32 8.69 | | 54 15.5 | 3s′ | | | | | − 1.40 | |
| | | | | | | | | | | 53 55.63 | |
| | +15.08 | 1 2.7 | 21.1 | 23.8 | 1 11.90 | 58′ | 36.45 | | 310 | 49 53 ~~46.15~~ | |
| | 1.17840 | 1.17840 | | | | 49 53 | 1.42 | | | 48.55 +7.39 | |
| d | 9.88351 | 9.80912 | | | | | − ~~15.27~~ | | | − 6 9.04 | |
| | ~~1.18686~~ | 1.10945 m | | | | | − 12.87 | | | − 34 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.18384 | | | | | | | | | + 7.54 | |
| −2.85 $\delta_2$ | | | | 9 | | | | | | + 25 | |
| +19.86 | | 32 8.61 | | 54 15.5 | | | | | | − 1.60 | |
| | | | | | | | | | | 53 53.99 | |
| | +17.96 | 0 36.4 | 52.7 | 89.1 | 0 44.55 | 22 | 3.80 | | 0 | 50 24 ~~8.37~~ | |
| | 1.25431 | 1.25431 | | | | 50 24 | 26.69 | | | 11.53 + ~~8.13~~ | |
| d | 9.88678 | 9.80443 | | | | | − ~~18.92~~ | | | − 9 9.72 | |
| | ~~1.26604~~ | 1.18067 m | | | | | − 15.16 | | | − 20 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.26302 m | | | | | | | | | + 8.04 | |
| −2.82 $\delta_1$ | | | | | | | | | | + 25 | |
| +19.81 | | 35 24.77 | | 24 39.8 | | | | | | − 1.30 | |
| | | | | | | | | | | 24 ~~18.45~~ 19.95 | |
| | +19.97 | 0 35.0 | 53.9 | 88.9 | 0 44.45 | 22 | 3.90 | | 0 | 50 24 ~~8.50~~ | |
| | 1.30038 | 1.30038 | | | | 50 24 | 28.87 | | | 12.01 + ~~7.98~~ | |
| d | 9.88678 | 9.80443 | | | | | − ~~20.37~~ | | | − 11 9.63 | |
| | ~~1.30909~~ | 1.22674 m | | | | | − 16.86 | | | − 20 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | 399 | | | | | | + 8.04 | |
| −2.82 $\delta_2$ | | | | | | | | | | + 25 | |
| +19.81 | | 3524.85 | | 24 40.0 | | | | | | − 1.50 | |
| | | | | | | | | | | 24 20.14 | |

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Date$_1$ = 1876, May 23 (470) Observer W. A. R. Recorder J. F. M.

Date$_2$ = 1876, May 24 (471) Observer W. A. R. Recorder J. F. M.

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 38 5 | 54 30 | 8.9 | 12 38 20.7 | 38 46.4 | 48.9 | 53.4 | 57.1 | 0.8 | 38 | 53.52 | | |
| | 37 17.3 | | 8.8 | 24.2 | | | | | | | −36.67 | | |
| | κ | | | 26.8 | | | | | | | − 66 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 23.90 | | | | | − 37.47 | | − 14 | | |
| | | | | | | | | | | 38 | 16.05 | | |
| | $\alpha_1$ | | | | | | | | | | − 3.22 | | |
| | | | | | | | | | | | 12.83 | | |
| | | | 8.8 | 38 27.0 | 38 46.3 | 50.0 | 53.3 | 56.8 | 0.4 | 38 | 53.36 | | |
| | | | | 34.0 | | | | | | | −36.59 | | |
| | κ | | | 34.0 | | | | | | | − 66 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 30.83 | | | | | − 37.39 | | − 14 | | |
| | | | | | | | | | | 38 | 19.97 | | |
| | $\alpha_2$ | | | | | | | | | | − 3.20 | | |
| | | | | | | | | | | | 12.77 | | ✓ |
| | 44 4 | 54 45 | 8.8 | 44 30.0 | 44 29.7 | 33.4 | 36.9 | 40.2 | 44.0 | 44 | 36.84 | | |
| | 43 ~~16.3~~ | ~~44~~ | 9.1 | 31.6 | | | | | | | −36.67 | | |
| | κ 1.2 | 46.5 | | 31.8 | | | | | | | − 66 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 32.47 | | | | | − 37.47 | | − 14 | | |
| | | | | | | | | | | 43 | 59.37 | | |
| | $\alpha_1$ | | | | | | | | | | − 3.25 | | |
| | | | | | | | | | | | 56.12 | | |
| | | | 8.7 | 44 18.6 | 44 29.6 | 33.0 | 36.7 | 40.2 | 43.7 | 44 | 36.64 | | |
| | | | | 21.2 | | | | | | | −36.59 | | |
| | κ | | | 23.8 | | | | | | | − 66 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 21.20 | | | | | − 37.39 | | − 14 | | |
| | | | | | | | | | | 43 | 59.25 | | |
| | $\alpha_2$ | | | | | | | | | | − 3.23 | | |
| | | | | | | | | | | | 56.02 | | |
| | 45 2 | 51 11 | 9.1 | 45 30.7 | 45 37.2 | 54.4 | 57.8 | 1.1 | 4.2 | 45 | 57.74 | | |
| | 44 15.3 | 16.6 | 9.0 | 33.8 | | | | | | | −36.67 | | |
| | κ | | | 36.8 | | | | | | | − 58 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 33.77 | | | | | − 37.38 | | − 13 | | |
| | | | | | | | | | | 45 | 20.36 | | |
| | $\alpha_1$ | | | | | | | | | | − 3.08 | | |
| | | | | | | | | | | | 17.28 | | |
| | | | 9.2 | 45 27.3 | 45 37.0 | 54.3 | 57.6 | 0.7 | 4.1 | 45 | 57.54 | | |
| | | | | 29.8 | | | | | | | −36.59 | | |
| | κ | | | 33.4 | | | | | | | − 58 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 30.17 | | | | | − 37.30 | | − 13 | | |
| | | | | | | | | | | 45 | 20.24 | | |
| | $\alpha_2$ | | | | | | | | | | − 3.06 | | |
| | | | | | | | | | | | 17.18 | | |
| | 50 7 | 53 29 | 9.4 | 50 36.2 | 50 52.0 | 53.0 | 58.6 | 2.0 | 5.6 | 50 | 58.66 | | |
| | 49 2.4 | 34.6 | 9.4 | 38.6 | | | | | | | −36.67 | | |
| | κ | | | 43.4 | | | | | | | − 63 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 39.40 | | | | | − 37.44 | | − 14 | | |
| | | | | | | | | | | 50 | 21.22 | | |
| | $\alpha_1$ | | | | | | | | | | − 3.21 | | |
| | | | | | | | | | | | 18.01 | | |
| | 49 16.3 | 53 31.8 | 8.2 | 50 14.6 | 50 46.2 | 49.7 | 53.1 | 56.6 | 0.1 | 50 | 53.14 | | |
| | | | | 17.0 | | | | | | | −36.59 | | |
| | κ | | | 18.8 | | | | | | | − 63 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 17.13 | | | | | − 37.36 | | − 14 | | |
| | | | | | | | | | | 50 | 15.78 | | |
| | $\alpha_2$ | | | | | | | | | | − 3.19 | | |
| | | | | | | | | | | | 12.59 | | |
| | 52 31 | 53 15 | 8.0 | 52 31.8 | 53 14.8 | 18.2 | 21.6 | 25.0 | 28.6 | 53 | 21.64 | | |
| | 51 46.6 | 24.1 | 8.3 | 35.2 | | | | | | | −36.67 | | |
| | κ | | | 37.9 | | | | | | | − 62 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 34.97 | | | | | − 37.42 | | − 13 | | |
| | | | | | | | | | | 52 | 44.22 | | |
| | $\alpha_1$ | | | | | | | | | | − 3.21 | | |
| | | | | | | | | | | | 41.01 | | |
| | | | 8.0 | 52 37.4 | 53 14.7 | 18.1 | 21.5 | 24.8 | 28.4 | 53 | 21.50 | | |
| | | | | 35.0 | | | | | | | −36.59 | | |
| | κ | | | 1.6 | | | | | | | − 62 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 36.33 | | | | | − 37.34 | | − 13 | | |
| | | | | | | | | | | 52 | 44.16 | | |
| | $\alpha_2$ | | | | | | | | | | − 3.19 | | |
| | | | | | | | | | | | 40.97 | | |

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Runs

+1.59
+1.65

| | $T_m - T_S$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +29.62 | 0 38.2 | 58.6 | 91.8 | 57 0 45.90 | 27 | 2.45 | | 55 | 54 ~~28~~ ~~53.42~~ | |
| | 1.47159 | 1.47159 | | | 54 | 29 | 25.34 | | | 29 2.53 | +1241 |
| d | 9.91060 | 9.76413 | | | | | −31.62 | | | − 23 | 14.00 |
| | 1.50412 | 1.35765n | | | | | −22.79 | | | − 20 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +12.44 | |
| | | | | | | | | | | + 40 | |
| −2.76 δ₁ | | 38 10.07 | | 29 34.3 | 55 | | | | | − 2.00 | |
| +19.78 | | | | | | | | | | 29 14.55 | |
| | +23.03 | 0 42.5 | 59.8 | 102.3 | 0 51.15 | 26 | 57.20 | | 55 | 54 ~~28~~ ~~57.35~~ | |
| | 1.36229 | 1.36229 | | | 54 | 29 | 22.17 | | | 29 4.45 | +1226 |
| d | 9.91060 | 9.76413 | | | | | −24.69 | | | − 14 | 13.91 |
| | 1.39482 | 1.24835n | | | | | −17.72 | | | − 25 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +12.25 | |
| | | | | | | | | | | + 40 | |
| −2.76 δ₂ | | 38 10.01 | | 29 35.9 | 46 | | | | | − 2.20 | |
| +19.78 | | | | | | | | | | 29 16.16 | |
| | +4.37 | 1 33.8 | 50.0 | 88.8 | 1 49.90 | 36 | 6.15 | | 45 | 54 38 ~~24.62~~ | |
| | 0.64048 | 0.64048 | | | 54 | 38 | 29.34 | | | 25.99 | +1251 |
| d | 9.91141 | 9.76456 | | | | | −4.92 | | | − 6 | 14.10 |
| | 0.67382 | 0.52494n | | | | | −33.54 | | | − 48 | |
| ((δ) − D) $\frac{d'}{100}$ | | 53.41 | | | | | | | | +12.60 | |
| | | | | | | | | | | + 40 | |
| −2.71 δ₁ | | 43 ~~58.83~~ | | 38 58.2 | 46 | | | | | − 1.60 | |
| +19.68 | | | | | | | | | | 38 38.49 | |
| | +15.44 | 1 24.6 | 42.1 | 66.7 | 1 33.35 | 36 | 15.00 | | 45 | 54 38 ~~23.20~~ | |
| | 1.18865 | 1.18865 | | | 54 | 38 | 39.67 | | | 28.14 | +1228 |
| d | 9.91149 | 9.76236 | | | | | −16.85 | | | − 6 | 13.93 |
| | 1.22207 | 1.07294n | | | | | −11.63 | | | − 47 | |
| ((δ) − D) $\frac{d'}{100}$ | | 53.31 | | | | | | | | +12.41 | |
| | | | | | | | | | | + 40 | |
| −2.71 δ₂ | | 43 ~~58.73~~ | | 38 59.8 | 14 | | | | | − 2.00 | |
| +19.68 | | | | | | | | | | 38 ~~38.47~~ 40.07 | |
| | +23.97 | 4 20.4 | 36.1 | 56.5 | 4 28.25 | 8 | 20.10 | | 10 | 51 10 ~~18.26~~ | |
| | 1.37967 | 1.37967 | | | 51 | 10 | 42.99 | | | 23.09 | +788 |
| d | 9.89162 | 9.79715 | | | | | −24.73 | | | − 15 | 9.47 |
| | 1.39322 | 1.29875n | | | | | −19.90 | | | − 126 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 899 | |
| | | | | | | | | | | + 30 | |
| +2.75 δ₁ | | 45 14.53 | | 10 51.4 | 14 | | | | | − 0.80 | |
| +19.67 | | | | | | | | | | 10 3176 | |
| | +27.37 | 4 19.1 | 36.4 | 55.5 | 4 27.75 | 8 | 20.60 | | 10 | 51 10 ~~14.33~~ | |
| | 1.43727 | 1.43727 | | | 51 | 10 | 45.57 | | | 22.83 | +769 |
| d | 9.89162 | 9.79715 | | | | | −25.24 | | | − 20 | 9.34 |
| | 1.45082 | 1.35635n | | | | | −22.72 | | | − 126 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 885 | |
| | | | | | | | | | | + 30 | |
| +2.75 δ₂ | | 45 14.43 | | 10 50.8 | 67 | | | | | − 1.10 | |
| +19.67 | | | | | | | | | | 10 ~~30.47~~ 31.09 | |
| | + 19.26 | 2 4.6 | 19.5 | 24.1 | 2 12.05 | 25 | 36.30 | | 55 | 53 27 ~~38.60~~ | ✓ |
| | 1.28466 | 1.28466 | | | 53 | 27 | 59.19 | | | 43.90 | +1099 |
| d | 9.90499 | 9.77473 | | | | | −20.59 | | | − 9 | 12.58 |
| | 1.31158 | 1.18432n | | | | | −15.29 | | | − 62 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +1135 | |
| | | | | | | | | | | + 35 | |
| −2.68 δ₁ | | 50 15.33 | | 28 15.1 | 60 | | | | | − 0.90 | |
| +19.57 | | | | | | | | | | 27 5588 | |
| | +36.01 | 4 53.4 | 8.7 | 122.1 | 5 1.05 | 22 | 47.30 | | 55 | 53 24 ~~33.98~~ | ✓ |
| | 1.55642 | 1.55642 | | | 53 | 25 | 12.27 | | | 43.85 | +976 |
| d | 9.90471 | 9.77524 | | | | | −38.29 | | | − 34 | 11.41 |
| | 1.58306 | 1.45359n | | | | | −28.42 | | | − 140 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +1115 | |
| | | | | | | | | | | + 35 | |
| −2.68 δ₂ | | 50 9.91 | | 25 13.6 | 11 | | | | | − 1.20 | |
| +19.57 | | | | | | | | | | 24 ~~43.06~~ 54.06 | |
| | +26.67 | 1 28.7 | 44.2 | 72.9 | 1 36.45 | 11 | 11.90 | | 10 | 53 13 ~~6.50~~ | |
| | 1.42602 | 1.42602 | | | 53 | 13 | 34.79 | | | 13.51 | +1078 |
| d | 9.90368 | 9.77711 | | | | | −26.26 | | | − 19 | 12.37 |
| | 1.45163 | 1.32806n | | | | | −21.28 | | | − 45 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +11.12 | |
| | | | | | | | | | | + 30 | |
| −2.66 δ₁ | | 52 38.35 | | 13 44.7 | 11 | | | | | − 0.70 | |
| +19.53 | | | | | | | | | | 13 25.98 | |
| | +23.17 | 1 33.5 | 50.8 | 84.3 | 1 42.15 | 11 | 12.20 | | 10 | 53 13 ~~6.59~~ | |
| | 1.36493 | 1.36493 | | | 53 | 13 | 31.17 | | | 11.94 | +1066 |
| d | 9.90368 | 9.77711 | | | | | −24.58 | | | − 14 | 12.31 |
| | 1.39054 | 1.28697n | | | | | −19.23 | | | − 48 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +10.93 | |
| | | | | | | | | | | + 35 | |
| −2.66 δ₂ | | 52 38.31 | | 13 42.8 | | | | | | − 1.00 | |
| +19.53 | | | | | | | | | | 13 23.25 | |

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Date$_1$ = 1876, May 23 — Observer W.A.R. — Recorder J.T.M. — Date$_2$ = 1876, May 24 — Observer W.A.R. — Recorder J.T.M.

| Star. | α | δ | Mag. | $T_a$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 57 23 | 52 24 | 8.3 | 12 37 54.8 | 58 17.9 | 21.2 | 24.4 | 27.8 | 31.3 | 58 | 24.52 | | |
| | 56 47.1 | 29.3 | 8.3 | 37.0 | | | | | | | −36.66 | | |
| | κ | | | 1.6 | | | | | | | − 61 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 58.13 | | | | | − 37.40 | 57 | − 13 | | |
| | | | | | | | | | | | 47.12 | | |
| | $\alpha_1$ | | | | | | | | | | −3.19 | | |
| | | | | | | | | | | | 43.93 | | |
| | | | 8.7 | 57 50.9 | 58 17.9 | 21.2 | 24.6 | 28.0 | 31.2 | 58 | 24.58 | | |
| | κ | | | 54.6 | | | | | | | −36.59 | | |
| | | | | 57.4 | | | | | | | − 61 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 54.30 | | | | | − 37.33 | | − 13 | | |
| | | | | | | | | | | 57 | 47.25 | | |
| | $\alpha_2$ | | | | | | | | | | −3.17 | | |
| | | | | | | | | | | | 44.08 | | |
| | 58 39 | 50 45 | 7.8 | 58 [illegible] | 59 24.4 | 27.5 | 30.8 | 34.2 | 37.3 | 59 | 30.84 | | |
| | 57 54.2 | 57.0 | 7.8 | 1.8 | | | | | | | −36.66 | | |
| | κ | | | 4.5 | | | | | | | − 57 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 1.83 | | | | | − 37.36 | | − 13 | | |
| | | | | | | | | | | 58 | 53.48 | | |
| | $\alpha_1$ | | | | | | | | | | −3.11 | | |
| | | | | | | | | | | | 50.37 | | |
| | | | 8.0 | 58 57.8 | 59 24.1 | 27.3 | 30.7 | 33.9 | 37.2 | 59 | 30.64 | | |
| | κ | | | 54.9 | | | | | | | −36.59 | | |
| | | | | 58.1 | | | | | | | − 57 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 54.93 | | | | | − 37.29 | | − 13 | | |
| | | | | | | | | | | 58 | 53.35 | | |
| | $\alpha_2$ | | | | | | | | | | −3.09 | | |
| | | | | | | | | | | | 50.~~32~~.26 | | ✓ |
| | 59 7 | 50 21 | 8.7 | 13 0 4.3 | 59 52.6 | 56.0 | 59.1 | 2.4 | 5.6 | 59 | 59.14 | | |
| | 58 22.7 | 26.3 | 8.5 | 7.3 | | | | | | | −36.66 | | |
| | κ | | | 10.4 | | | | | | | − 57 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 7.33 | | | | | − 37.36 | | − 13 | | |
| | | | | | | | | | | 59 | 21.78 | | |
| | $\alpha_1$ | | | | | | | | | | −3.09 | | |
| | | | | | | | | | | | 18.69 | | |
| | | | 8.4 | 0 19.0 | 59 52.6 | 55.8 | 59.0 | 2.1 | 5.5 | 59 | 59.00 | | |
| | κ | | | 22.6 | | | | | | | −36.59 | | |
| | | | | 25.6 | | | | | | | − 57 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 22.40 | | | | | − 37.29 | | − 13 | | |
| | | | | | | | | | | 59 | 21.71 | | |
| | $\alpha_2$ | | | | | | | | | | −3.07 | | |
| | | | | | | | | | | | 18.64 | | |
| 13 | 3 51 | 51 49 | 7.5 | 4 10.0 | 4 36.2 | 39.5 | 42.7 | 46.3 | 49.6 | 4 | 42.86 | | |
| | 3 6.8 | 54.9 | 7.5 | 12.1 | | | | | | | −36.66 | | |
| | κ | | | 14.3 | | | | | | | − 59 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 12.13 | | | | | − 37.38 | | − 13 | | |
| | | | | | | | | | | 4 | 5.48 | | |
| | $\alpha_1$ | | | | | | | | | | −3.18 | | |
| | | | | | | | | | | | 2.30 | | |
| | | | 7.9 | 4 20.8 | 4 36.1 | 39.5 | 43.0 | 46.1 | 49.5 | 4 | 42.84 | | |
| | κ | | | 24.0 | | | | | | | −36.59 | | |
| | | | | 26.8 | | | | | | | − 59 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 23.87 | | | | | − 37.31 | | − 13 | | |
| | | | | | | | | | | 4 | 5.53 | | |
| | $\alpha_2$ | | | | | | | | | | −3.16 | | |
| | | | | | | | | | | | 2.37 | | |
| | 4 55 | 52 19 | 8.9 | 5 22.4 | 5 40.0 | 43.3 | 46.7 | 50.1 | 53.4 | 5 | 46.70 | | |
| | 4 10.1 | 24.3 | 9.1 | 25.4 | | | | | | | −36.66 | | |
| | κ | | | 28.7 | | | | | | | − 60 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 25.50 | | | | | − 37.39 | | − 13 | | |
| | | | | | | | | | | 5 | 9.31 | | |
| | $\alpha_1$ | | | | | | | | | | −3.21 | | |
| | | | | | | | | | | | 6.10 | | |
| | | | 9.3 | 5 29.9 | 5 40.2 | 43.2 | 46.6 | 49.8 | 53.4 | 5 | 46.64 | | |
| | κ | | | 32.4 | | | | | | | −36.59 | | |
| | | | | 35.5 | | | | | | | − 60 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 32.60 | Single Observation | | | | − 37.32 | | − 13 | | |
| | | | | | | | | | | 5 | 9.32 | | |
| May 24 | $\alpha_2$ | | | | | | | | | | −3.19 | | |
| | | | | | | | | | | | 6.13 | | |
| 13 | 2 14 | 52 29 | 7.8 | 2 27.4 | 3 0.1 | 3.4 | 6.9 | 10.2 | 18.6 | 3 | 4.84 | | ✓ |
| | 1 29.2 | 34.1 | 7.5 | 29.6 | | | | | | | −36.59 | | |
| | | | | 32.0 | | | | | | | − 61 | | |
| | | | | [illegible] | | | | | − 37.33 | 2 | − 13 | 2 29.51 | 2 26.32 |
| | | | | | | | | | | | 29.51 | | |

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Runs

+1.59
+1.65

| | $T_m - T\,\delta$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +26.39 | 2 23.7 | 38.3 | 62.0 | 2 31.00 | 20′ | 17.35 | | 0 | 52° 22′ ~~12.58~~ | |
| | 1.421444 | 1.42144 | | | | 52 22 | 40 24 | | | 18.91 | +9.65 |
| d | 9.898479 | 9.78560 | | | | | −~~27.68~~ | | | − 18 | 11.24 |
| | 1.442164n | 1.32897n | | | | | −21.33 | | | − 70 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | + 10.23 | |
| | | | | | | | | | | + 30 | |
| | | | | | | | | | | − 0.20 | |
| −2.64 $\delta_1$ | | 57 41.29 | | 22 49.4 | | | | | | 22 29.95 | |
| +19.42 | | | | | | | | | | | |
| | +30.28 | 2 21.1 | 38.1 | 59.2 | 2 29.60 | 20 | 18.75 | | 0 | 52 22 ~~11.96~~ | |
| | 1.481116 | 1.48116 | | | | 52 22 | 43.72 | | | 19.25 | +~~9.43~~ |
| d | 9.898479 | 9.78560 | | | | | −~~31.76~~ | | | − 24 | 11.08 |
| | 1.501884n | 1.38869n | | | | | −24.47 | | | − 70 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | +10.07 | |
| | | | | | | | | | | + 30 | |
| | | | | | | | | | | − 0.40 | |
| −2.64 $\delta_2$ | | 57 41.44 | | 22 49.4 | | | | | | 22 29.93 | |
| +19.42 | | | | | | | | | | | |
| | +29.01 | 0 36.6 | 53.4 | 90.0 | 0 45.00 | 42 | 3.35 | | 40 | 50 ~~43 56.50~~ | |
| | 1.462555 | 1.46255 | | | | 50 44 | 26.24 | | | 44 1.93 | +~~8.40~~ |
| d | 9.88886 | 9.80136 | | | | | −~~29.41~~ | | | − 23 | 9.99 |
| | 1.473344n | 1.38584n | | | | | −24.31 | | | − 20 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | +8.53 | |
| | | | | | | | | | | + 30 | |
| | | | | | | | | | | + 0.30 | |
| −2.66 $\delta_1$ | | 58 47.71 | | 44 31.6 | | | | | | 44 1.22 | |
| +19.40 | | | | | | | | | | | |
| | +35.71 | 0 30.7 | 49.8 | 80.5 | 0 40.25 | 42 | 8.10 | | 40 | 50 ~~43 66.45~~ | |
| | 1.552779 | 1.55279 | | | | 50 44 | 33.07 | | | 44 3.16 | +~~8.16~~ |
| d | 9.88896 | 9.80120 | | | | | −~~36.62~~ | | | − 34 | 9.81 |
| | 1.563682n | 1.47592n | | | | | −29.92 | | | − 20 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | +8.40 | |
| | | | | | | | | | | + 30 | |
| | | | | | | | | | | + 0.00 | |
| −2.66 $\delta_2$ | | 58 47.60 | | 44 32.4 | | | | | | 44 1.96 | |
| +19.40 | | | | | | | | | | | |
| | ~~+35.81~~ | 0 44.2 | 0.0 | 104.2 | 0 52.10 | 16 | 56.25 | | 5 | 50 ~~18~~ ~~26.34~~ | 19 26.07 |
| | ~~1.714411~~ | ~~1.71441~~ | | | | 50 19 | 19.11 | | | ~~3.538~~ | − 2 +~~8.14~~ |
| d | ~~9.886209~~ | ~~9.80519~~ | | | | | −~~52.80~~ | | | − | − 25 9.69 |
| | ~~1.722602n~~ | ~~1.64153n~~ | | | | | −~~42.81~~ | | | − 25 | + 8.12 |
| $((\delta) - D)\frac{d'}{100}$ | − 8.19 | | | | | | + 6.93 | | | | + 25 |
| | 0.913228n | | | | | | | | | | + 0.40 |
| −2.66 $\delta_1$ | 9.805199 | 5 16.03 | | 19 55.6 | | | | | | | 19 ~~37.16~~ 36.18 6 |
| +19.39 | 0.840400 | | | | | | | | | | |
| | +36.60 | 0 57.4 | 15.5 | 132.9 | 1 6.45 | 16 | 41.90 | | 5 | 50 ~~29.54~~ | 19 26.66 |
| | ~~1.563348~~ | ~~1.56348~~ | | | | 50 19 | 6.57 | | | ~~36.02~~ | − 14 +~~7.77~~ |
| d | ~~9.886269~~ | ~~9.80519~~ | | | | | −~~37.30~~ | | | | − 31 9.42 |
| | ~~1.571678n~~ | ~~1.49060n~~ | | | | | −~~30.95~~ | | | | + 7.97 |
| $((\delta) - D)\frac{d'}{100}$ | − 23.46 | | | | | | +19.79 | | | | + 25 |
| | 1.369220n | | | | | | | | | | + 0.10 |
| −2.66 $\delta_2$ | 9.805199 | 5 15.98 | | 19 55.6 | | | | | | | 19 36.18 |
| +19.39 | 1.296341 | | | | | | | | | | |
| | +30.73 | 0 48.6 | 4.3 | 112.9 | 0 56.45 | 4.86 | 51.90 | | 35 | 51 ~~48~~ ~~42.81~~ | |
| | 1.487556 | 1.48756 | | | | 51 48.9 | 14.79 | | | 49.63 | +~~9.46~~ |
| d | 9.895344 | 9.79128 | | | | | −~~31.68~~ | | | − 25 | 11.05 |
| | 1.504834n | 1.40077n | | | | | −25.16 | | | − 25 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | + 9.66 | |
| | | | | | | | | | | + 30 | |
| | | | | | | | | | | + 0.40 | |
| −2.60 $\delta_1$ | | 3 59.70 | | 49 20.4 | | | | | | 49 1.08 | |
| +19.28 | | | | | | | | | | | |
| | +18.97 | 0 59.4 | 17.2 | 136.6 | 1 8.30 | 16 | 40.05 | | 35 | ~~45.28~~ | |
| | 1.278074 | 1.27807 | | | | 51 49 | 5.02 | | | 48 49.49 | +~~9.40~~ |
| d | 9.895444 | 9.79111 | | | | | −~~19.47~~ | | | − 10 | 11.05 |
| | 1.295444n | 1.19111n | | | | | −15.53 | | | − 31 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | + 9.51 | |
| | | | | | | | | | | + 30 | |
| | | | | | | | | | | + 0.20 | |
| −2.60 $\delta_2$ | | 3 59.77 | | 49 20.0 | | | | | | 49 0.74 | |
| +19.28 | | | | | | | | | | | |
| | +21.20 | 2 37.9 | 52.6 | 90.5 | 2 45.25 | 15 | 3.10 | | 5 | 52 17 ~~3.78~~ | |
| | 1.326341 | 1.32634 | | | | 52 17 | 25.99 | | | 8.82 | +~~9.56~~ |
| d | 9.898820 | 9.78658 | | | | | −~~22.21~~ | | | − 12 | 11.16 |
| | 1.346472n | 1.23485n | | | | | −17.17 | | | − 76 | |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | +10.15 | |
| | | | | | | | | | | + 30 | |
| | | | | | | | | | | + 0.40 | |
| −2.59 $\delta_1$ | | 5 3.51 | | 17 39.6 | | | | | | 17 20.38 | |
| +19.25 | | | | | | | | | | | |
| | +14.04 | 2 44.6 | 0.7 | 105.3 | 2 52.65 | 14 | 55.80 | | 5 | 52 17 ~~5.93~~ | 9.30 27 1.44 |
| | 1.147377 | 1.14737 | | | | 52 17 | 20.67 | | | 9.30 | − 5 +~~9.43~~ 37 +~~9.33~~ |
| d | 9.899218 | 9.78658 | | | | | −~~44.44~~ | | | − | − 81 11.08 76 10.98 |
| | 1.168488n | 1.05588n | | | | | −11.37 | | | | + 999 + 10.16 |
| $((\delta) - D)\frac{d'}{100}$ | | | | | | | | | | | + 30 + 30 |
| | | | | | | | | | | | + 0.20 + 0.00 |
| −2.59 $\delta_2$ | | 5 3.54 | | | | | | | | 17 20.58 | 27 1.242 |
| +19.25 | | | | | | | | | | | |
| | +37.17 | 2 33.8 | 50.0 | 83.8 | 2 41.90 | 25 | 6.45 | | 55 | 52 ~~46 52.39~~ | |
| 1.591398n | 1.57019 | 1.57019 | 2 23.72 | 17 39.8 | | 52 24 | ~~39.34~~ | | | 27 1.44 | |
| | 9.896924 | 9.78478 | | | | | 31.42 | | | | |
| −2.60 | 1.487113 | 1.35497 | | 27 31.7 | | | −~~39.03~~ 29.98 | | | | |
| +19.32 | | | | | | | | | | | |

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1876phae.proj.1600R



Date$_1$ = 1876, May 25 m = −.149 Observer W.A.R. Recorder J.F.M. Date$_2$ = 1876, May 30 m = +.150 Observer W.A.R. Recorder J.F.M.

| Star. | α | C = −.088 δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | C $\bar{T}_g$ −.08 | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 52 50 | 50 32 | 9.4 | 12 53 7.0 | 53 37.6 | 40.7 | 44.3 | 47.5 | 50.6 | 53 | 44.18 | | |
| | 52 4.6 | 37.3 | 9.4 | 10.5 | | | | | | | −36.54 | | |
| | κ | | | 13.8 | | | | | | | − 59 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 10.43 | | | | | − 37.26 | | − 13 | | |
| | $a_1$ | | | | | | | | | | .86 | | |
| | | | | | | | | | | 53 | 6.92 | | |
| | | | | | | | | | | | − 3.04 | | |
| | | | | | | | | | | | 3.88 | | |
| | | | 9.4 | 53 6.0 | 53 35.5 | 38.8 | 42.0 | 45.3 | 48.3 | 53 | 44.98 | | |
| | | | | 9.3 | | | | | | | −34.55 | | |
| | κ | | | 12.0 | | | | | | | − 61 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 9.10 | | | | | − 35.29 | | − 13 | | |
| | $a_2$ | | | | | | | | | 53 | 6.69 | | |
| | | | | | | | | | | | − 2.95 | | |
| | | | | | | | | | | | 3.74 | | |
| | 57 16 | 51 43 | 7.8 | 57 48.1 | 58 0.6 | 3.9 | 7.1 | 10.4 | 13.7 | 58 | 7.14 | | |
| | 56 30.8 | 48.3 | 7.4 | 57.3 | | | | | | | −36.54 | | |
| | κ | | | 53.0 | | | | | | | − 62 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 57.47 | | | | | − 37.29 | | − 13 | | |
| | $a_1$ | | | | | | | | | 57 | 29.85 | | |
| | | | | | | | | | | | − 3.12 | | |
| | | | | | | | | | | | 26.73 | | |
| | | | 8.2 | 57 31.2 | 57 58.5 | 2.0 | 4.9 | 8.5 | 11.6 | 58 | 5.10 | | |
| | | | | 33.6 | | | | | | | −34.55 | | |
| | κ | | | 37.2 | | | | | | | − 63 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 34.00 | | | | | − 35.31 | | − 13 | | |
| | $a_2$ | | | | | | | | | 57 | 29.79 | | |
| | | | | | | | | | | | − 3.02 | | |
| | | | | | | | | | | | 26.77 | | |
| | 59 14 | 54 32 | 7.3 | 57 28.2 | 57 57.1 | 57.8 | 1.2 | 4.6 | 8.3 | 0 | 1.20 | | |
| | 58 27.9 | 37.9 | 7.5 | 82.2 | | | | | | | −36.54 | | |
| | κ | | | 33.0 | | | | | | | − 69 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 31.80 | | | | | − 37.37 | | − 14 | | |
| | $a_1$ | | | | | | | | | 57 | 23.83 | | |
| | | | | | | | | | | | − 3.27 | | |
| | | | | | | | | | | | 20.56 | | |
| | | | 7.3 | 57 27.2 | 57 57.0 | 57.3 | 57.2 | 2.7 | 6.4 | 59 | 59.16 | | |
| | | | | 31.4 | | | | | | | −34.55 | | |
| | κ | | | 34.1 | | | | | | | − 70 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 30.90 | | | | | − 35.39 | | − 14 | | |
| | $a_2$ | | | | | | | | | 57 | 23.77 | | |
| | | | | | | | | | | | − 3.17 | | |
| | | | | | | | | | | | 20.60 | | |
| 13 | 1 27 | 51 35 | 9.2 | 13 1 48.1 | 2 4.7 | 8.3 | 11.5 | 15.0 | 18.1 | 2 | 11.52 | | |
| | 0 41.6 | 48.9 | 9.0 | 52.7 | | | | | | | −36.54 | | |
| | κ 35.5 | 52 12 | | 55.5 | | | | | | | − 62 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 52.43 | | | | | − 37.29 | | − 13 | | |
| | $a_1$ | | | | | | | | | 1 | 34.23 | | |
| | | | | | | | | | | | − 3.14 | | |
| | | | | | | | | | | | 31.09 | | |
| | | | 9.2 | 1 48.0 | 2 2.7 | 6.0 | 9.5 | 12.6 | 16.0 | 2 | .836 | | |
| | | | | 57.7 | | | | | | | −34.56 | | |
| | κ | | | 54.3 | | | | | | | − 63 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 51.33 | | | | | − 35.32 | | − 13 | | |
| | $a_2$ | | | | | | | | | 1 | 34.04 | | |
| | | | | | | | | | | | − 3.04 | | |
| | | | | | | | | | | | 31.00 | | |
| | 4 4 | 52 50 | 8.3 | 4 39.4 | 4 46.1 | 49.5 | 53.0 | 56.4 | 59.8 | 4 | 52.96 | | |
| | 3 16.8 | 56.0 | 8.1 | 42.5 | | | | | | | −36.54 | | |
| | κ | | | 45.2 | | | | | | | − 64 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 42.37 | | | | | − 37.31 | | − 13 | | |
| | $a_1$ | | | | | | | | | 4 | 15.65 | | |
| | | | | | | | | | | | − 3.20 | | |
| | | | | | | | | | | | 12.45 | | |
| | | | 8.4 | 4 16.2 | 4 44.0 | 47.4 | 50.8 | 54.0 | 57.6 | 4 | 50.76 | | |
| | | | | 19.3 | | | | | | | −34.56 | | |
| | κ | | | 22.5 | | | | | | | − 65 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | 19.33 | | | | | − 35.34 | | − 13 | | |
| | $a_2$ | | | | | | | | | 4 | 15.42 | | |
| | | | | | | | | | | | − 3.10 | | |
| | | | | | | | | | | | 12.32 | | |

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May 25 + 2 ~~24.39~~ 26.41 −.28 +1.37
30 + 2 31.67 −.26 +0.97

Runs

+1.37
+0.97

| | $T_m - T_s$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +33.75 | 3 45.8 | 57.4 | 103.2 | 53 3′ 51.60 | 28′ | 56.75 | | 50 | 50 30 ~~49.65~~ | |
| | 1.52827 | 1.52827 | | | | 50 31 | 24.14 | | | 55.72 | +7.04 |
| d | 9.88751 | 9.80336 | | | | | −~~34.49~~ | | | − 31 | 8.41 |
| | 1.53771n | 1.45356n | | | | | −28.42 | | | − 109 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 8.19 | |
| | | | | | | | | | | + 25 | |
| −2.70 $\delta_1$ | | 53 1.18 | | 31 22.3 | 53 | | | | | − 0.40 | |
| +19.52 | | | | | | | | | | ~~38~~ 1.38 81 | 275 |
| | +32.88 | 3 49.5 | 1.6 | 111.1 | 3 55.55 | 28 | 52.80 | | 50 | 50 30 ~~50.87~~ | |
| | 1.51693 | 1.51693 | | | | 50 31 | 24.47 | | | 56.79 | +7.32 |
| d | 9.88751 | 9.80336 | | | | | −~~33.60~~ | | | − 30 | 8.29 |
| | 1.52637n | 1.44222n | | | | | −27.68 | | | − 101 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 838 | |
| | | | | | | | | | | + 25 | |
| −2.70 $\delta_2$ | | 53 1.04 | | 31 23.4 | 42 | | | | | −1.20 | |
| +19.52 | | | | | | | | | | 3131 ~~388~~ | 388 |
| | +15.67 | 2 43.3 | 55.4 | 98.7 | 2 49.35 | 39 | 59.00 | | 40 | 51 42 ~~10.11~~ | |
| | 1.19507 | 1.19507 | | | | 51 42 | 26.39 | | | 13.53 | +8.84 |
| d | 9.89475 | 9.79224 | | | | | −~~16.28~~ | | | − 7 | 10.21 |
| | 1.21175n | 1.10924n | | | | | −12.86 | | | − 78 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 9.39 | |
| | | | | | | | | | | + 30 | |
| −2.65 $\delta_1$ | | 57 24.08 | | 42 41.8 | 42 | | | | | −0.40 | |
| +19.43 | | | | | | | | | | 4242 ~~2.23~~ | 2236 |
| | +31.10 | 2 34.4 | 47.9 | 82.3 | 2 41.15 | 40 | 7.20 | | 40 | 51 42 ~~6.55~~ | |
| | 1.49276 | 1.49276 | | | | 51 42 | 38.87 | | | 13.36 | +8.95 |
| d | 9.89485 | 9.79208 | | | | | −~~32.32~~ | | | − 26 | 9.92 |
| | 1.50954n | 1.40677n | | | | | −26.51 | | | − 72 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 963 | |
| | | | | | | | | | | + 30 | |
| −2.65 $\delta_2$ | | 57 24.12 | | 42 41.5 | 53 | | | | | −1.80 | |
| +19.43 | | | | | | | | | | 42 ~~2.208~~ | 2208 |
| | +29.40 | 3 39.4 | 49.6 | 89.0 | 3 44.50 | 29 | 3.85 | | 50 | 54 31 ~~59.53~~ | |
| | 1.46835 | 1.46835 | | | | 54 31 | 31.24 | | | 31 8.65 | +11.44 |
| d | 9.91087 | 9.76360 | | | | | −~~3.44~~ | | | − 22 | 12.81 |
| | 1.50115n | 1.35388n | | | | | −22.59 | | | − 104 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +12.80 | |
| | | | | | | | | | | + 40 | |
| −2.59 $\delta_1$ | | 59 17.97 | | 31 39.1 | 53 | | | | | −0.80 | |
| +19.39 | | | | | | | | | | 31 ~~18.81~~ | 1968 |
| | +28.26 | 3 44.0 | 55.8 | 99.8 | 3 49.90 | 28 | 58.45 | | 50 | 54 31 ~~9.64~~ | |
| | 1.45117 | 1.45117 | | | | 54 31 | 30.12 | | | ~~28.41~~ | +11.77 |
| d | 9.91087 | 9.76360 | | | | | −~~30.48~~ | | | − 21 | 12.74 |
| | 1.48397n | 1.33670n | | | | | −21.71 | | | − 99 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +12.62 | |
| | | | | | | | | | | + 35 | |
| −2.59 $\delta_2$ | | 59 18.01 | | 31 38.8 | 30 | | | | | −1.70 | |
| +19.39 | | | | | | | | | | 31 ~~19.45~~ | 1945 |
| | +19.09 | 0 33.0 | 46.0 | 79.0 | 0 39.50 | 52 | 8.85 | | 30 | 51 54 ~~16.31~~ | |
| | 1.28081 | 1.28081 | | | | 51 54 | 36.24 | | | 20.65 | +9.63 |
| d | 9.89604 | 9.79015 | | | | | −~~14.90~~ | | | − 10 | 11.00 |
| | 1.29878n | 1.19289n | | | | | −15.59 | | | − 17 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | −, | | | + 9.60 | |
| | | | | | | | | | | + 30 | |
| −2.62 $\delta_1$ | | 1 28.47 | | 54 49.9 | 30 | | | | | −0.10 | |
| +19.34 | | | | | | | | | | 54 ~~29.20~~ | 3057 |
| | +18.03 | 0 38.7 | 51.7 | ~~10.44~~ 90.4 | 0 ~~1220~~ 45.20 | 51 | 56.15 52 3.16 | | 30 | 51 54 ~~9.03~~ | |
| | 1.25600 | 1.25600 | | | | 37 55 | 27.82 54 34.82 | | | 20.09 | +9.87 |
| d | 9.89607 | 9.79031 | | | | | −~~16.46~~ | −14.73 | | − 9 | 10.84 |
| | 1.27397n | 1.16824n | | | | | −14.73 | | | − 18 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 9.84 | |
| | | | | | | | | | | + 30 | |
| −2.62 $\delta_2$ | | 1 28.38 | | 54 49.3 | 35 | | | | | −1.00 | |
| +19.34 | | | | | | | | | | 54 ~~29.91~~ | 299.3 |
| | +10.59 | 0 35.1 | 46.6 | 81.7 | 0 40.85 | 47 | 7.50 | | 35 | 52 49 ~~23.42~~ | |
| | 1.02490 | 1.02490 | | | | 52 49 | 34.89 | | | 26.42 | +10.60 |
| d | 9.90139 | 9.78113 | | | | | −~~11.14~~ | | | − 3 | 11.97 |
| | 1.04822n | 0.92796n | | | | | − 8.47 | | | − 20 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +1053 | |
| | | | | | | | | | | + 30 | |
| −2.58 $\delta_1$ | | 4 9.87 | | 49 56.6 | 35 | | | | | −0.10 | |
| +19.27 | | | | | | | | | | 49 ~~35.94~~ | 3731 |
| | +31.43 | 0 21.1 | 33.9 | 55.0 | 0 27.50 | 47 | 20.85 | | 35 | 52 49 ~~14.36~~ | |
| | 1.49734 | 1.49734 | | | | 52 49 | 52.52 | | | 27.35 | +10.71 |
| d | 9.90139 | 9.78113 | | | | | −~~33.16~~ | | | − 26 | 11.68 |
| | 1.52066n | 1.40040n | | | | | −25.14 | | | − 13 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +1080 | |
| | | | | | | | | | | + 30 | |
| −2.58 $\delta_2$ | | 4 9.74 | | 49 57.3 | | | | | | −1.00 | |
| +19.27 | | | | | | | | | | 49 ~~38.06~~ | 3806 |

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Date$_1$ = 1876, May 25 — Observer / Recorder

Date$_2$ = 1876, May 30 — 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 9 1 | 52 17 | 9.2 | 13 9 25.2 | 9 48.1 | 37.5 | 54.9 | 58.1 | 1.4 | 9 54.50 | | | |
| | 8 16.9 | 22.7 | 8.8 | 28.3 | | | | | | −36.54 | | | |
| | κ | | | 31.6 | | | | | | − 63 | | | |
| | | | | 28.37 | | | | | − 37.30 | − 13 | | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 9 17.50 | | | |
| | | | | | | | | | | −3.18 | | | |
| | $c_1$ | | | | | | | | | 14.32 | | | |
| | | | 9.0 | 9 14.6 | 9 45.7 | 49.0 | 52.7 | 56.2 | 59.4 | 9 52.60 | | | |
| | | | | 17.8 | | | | | | −34.56 | | | |
| | κ | | | 20.3 | | | | | | − 64 | | | |
| | | | | 17.57 | | | | | − 35.33 | − 13 | | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 9 17.27 | | | |
| | | | | | | | | | | −3.09 | | | |
| | $c_2$ | | | | | | | | | 14.18 | | | |
| | 11 28 | 50 22 | 8.6 | 11 44.6 | 12 58.2 | ~~14~~ | ~~46~~ | | | | | | |
| | 10 42.8 | 27.1 | 8.2 | 48.0 | 11.0 | 14.3 | 17.5 | 20.7 | 24.0 | 12 17.50 | | | |
| | κ | | | 50.7 | | | | | | −36.54 | | | |
| | | | | 47.77 | | | | | | − 59 | | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | − 37.26 | − 13 | | | |
| | | | | | | | | | | 11 40.24 | | | |
| | $a_1$ | | | | | | | | | −3.10 | | | |
| | | | | | | | | | | 37.14 | | | |
| | | | 8.5 | 11 32.7 | 12 8.9 | 12.2 | 15.6 | 18.6 | 21.9 | 12 15.44 | | | |
| | | | | 35.4 | | | | | | −34.56 | | | |
| | κ | | | 38.0 | | | | | | − 61 | | | |
| | | | | 35.47 | | | | | − 35.30 | − 13 | | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 11 40.14 | | | |
| | | | | | | | | | | −3.02 | | | |
| | $a_2$ | | | | | | | | | 37.12 | | | |
| | 12 50 | 50 22 | 7.0 | 13 2.0 | 13 19.0 | 22.3 | | | | | | | |
| | 12 5.2 | 26.6 | 6.0 | 9.7 | 31.8 | 35.1 | 38.2 | 41.6 | 44.8 | 13 38.30 | | | |
| | κ | | | 11.8 | | | | | | −36.54 | | | |
| | | | | 9.50 | | | | | | − 59 | | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | − 37.26 | − 13 | | | |
| | | | | | | | | | | 13 1.04 | | | |
| | $a_1$ | | | | | | | | | −3.10 | | | |
| | | | | | | | | | | 12 57.94 | | | |
| | | | 6.0 | 13 3.2 | 13 29.6 | 32.9 | 36.1 | 39.4 | 42.5 | 13 36.10 | | | |
| | | | | 6.6 | | | | | | −34.56 | | | |
| | κ | | | 8.4 | | | | | | − 61 | | | |
| | | | | 6.07 | | | | | − 35.34 | − 13 | | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 13 0.80 | | | |
| | | | | | | | | | | −3.02 | | | |
| | $a_2$ | | | | | | | | | 12 57.78 | | | |
| | 23 15 | 52 23 | 8.6 | 23 42.9 | 23 58.3 | 1.8 | 5.1 | 8.5 | 11.8 | 24 5.10 | | | |
| | 22 32.2 | 38.0 | 8.7 | 45.6 | | | | | | −36.54 | | | |
| | κ | | | 48.6 | | | | | | − 64 | | | |
| | | | | 45.70 | | | | | − 37.31 | − 13 | | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 23 27.79 | | | |
| | | | | | | | | | | −3.24 | | | |
| | $a_1$ | | | | | | | | | 24.55 | | | |
| | | | 8.3 | 23 47.9 | 23 56.3 | 57.7 | 3.0 | 6.5 | 9.8 | 24 3.06 | | | |
| | | | | 50.2 | | | | | | −34.56 | | | |
| | κ | | | 37.0 | | | | | | − 65 | | | |
| | | | | 50.87 | | | | | − 35.34 | − 13 | | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 23 27.72 | | | |
| | | | | | | | | | | −3.15 | | | |
| | $a_2$ | | | | | | | | | 24.57 | | | |
| | 24 22 | 50 51 | 8.2 | 24 33.5 | 25 5.3 | 8.6 | 11.8 | 15.0 | 18.4 | 25 11.82 | | | |
| | 23 32.9 | 56.4 | 8.5 | 36.3 | | | | | | −36.54 | | | |
| | κ | | | 38.6 | | | | | | − 59 | | | |
| | | | | 36.13 | | | | | − 37.26 | − 13 | | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 24 34.56 | | | |
| | | | | | | | | | | −3.16 | | | |
| | $a_1$ | | | | | | | | | 31.40 | | | |
| | | | 8.2 | 24 10.8 | 25 3.0 | 6.7 | 9.9 | 13.1 | 16.2 | 25 9.78 | | | |
| | | | | 13.0 | | | | | | −34.56 | | | |
| | κ | | | 16.0 | | | | | | − 61 | | | |
| | | | | 13.28 | | | | | − 35.30 | − 13 | | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | 24 34.48 | | | |
| | | | | | | | | | | −3.08 | | | |
| | $a_2$ | | | | | | | | | 31.40 | | | |

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+1.37
+0.97

Runs

| | $T_m - T_J$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +26.43 | 4 15.2 | 26.2 | 41.4 | 9′ 4 2″.70 | 13′ | 27.″65 | | 5 | 52° 15′ ~~0.98~~ ~~27.36~~ | |
| | 1.42210 | 1.42210 | | | | 52 15 | 55.04 | | | 33.62 | +8.88 |
| d | 9.89810 | 9.78674 | | | | | −~~27.68~~ | | | − 18 | 10.25 |
| | 1.44213 | 1.33077 m | | | | | −21.42 | | | − 120 | |
| | | | | | | | | | | + 996 | |
| | | 76 | | | | | | | | + 30 | |
| −2.56 $\delta_1$ | | 9 11.~~88~~ | | 16 2.5 | | | | | | + 0.50 | |
| +19.15 | | | | | 9 | | | | | 15 ~~4457~~ | 43.39 |
| | +35.03 | 4 11.6 | 24.2 | 35.8 | 4 1′.790 | 13′ | 30.45 | | 5 | 52° 15′ ~~25.11~~ | |
| | 1.54444 | 1.54444 | | | | 52 16 | 2.12 | | | 33.73 | +9.08 |
| d | 9.89810 | 9.78674 | | | | | −~~36.68~~ | | | − 32 | 10.05 |
| | 1.56447 | 1.45311 m | | | | | −28.39 | | | − 112 | |
| | | 62 | | | | | | | | +1022 | |
| −2.56 $\delta_2$ | | 9 11.~~74~~ | | 16 2.4 | | | | | | + 30 | |
| +19.15 | | | | | 4 | | | | | −0.50 | |
| | | | | | | | | | | 15 4328 | |
| | +29.73 | 4 20.6 | 33.4 | 54.0 | 4 2′.700 | 18′ | 21.35 | | 0 | 50° 20′ ~~18.13~~ | |
| | 1.47319 | 1.47319 | | | | 50 20 | 48.74 | | | 23.62 | +6.74 |
| d | 9.88647 | 9.80489 | | | | | −~~30.21~~ | | | − 24 | 8.11 |
| | 1.48159 | 1.40001 m | | | | | −25.12 | | | − 126 | |
| | | | | | | | | | | + 799 | |
| | | | | | | | | | | + 25 | |
| −2.58 $\delta_1$ | | 11 34.56 | | 20 50.7 | | | | | | + 0.90 | |
| +19.09 | | | | | 4 | | | | | 20 ~~3263~~ | 31.65 |
| | +39.97 | 4 17.4 | 30.2 | 47.6 | 4 2′.380 | 18′ | 21.55 | | 0 | 50° 20′ ~~15.17~~ | |
| | 1.60173 | 1.60173 | | | | 50 20 | 56.22 | | | 22.45 | +6.82 |
| d | 9.88647 | 9.80489 | | | | | −~~40.75~~ | | | − 43 | 7.79 |
| | 1.61013 | 1.52855 m | | | | | −33.77 | | | − 114 | |
| | | 34.54 | | | | | | | | + 819 | |
| −2.58 $\delta_2$ | | 11 ~~39.70~~ | | 20 49.3 | | | | | | + 20 | |
| +19.09 | | | | | 4 | | | | | + 000 | |
| | | | | | | | | | | 20 ~~3027~~ | 30.24 |
| | +28.80 | 4 48.9 | 1.5 | 110.4 | 4 5′.520 | 17′ | 53.15 | | 0 | 50° 19′ ~~57.19~~ | |
| | 1.45939 | 1.45939 | | | | 50 20 | 20.54 | | | 56.20 | +6.61 |
| d | 9.88636 | 9.80504 | | | | | −~~29.35~~ | | | − 23 | 7.98 |
| | 1.46768 | 1.38636 m | | | | | −24.34 | | | − 137 | |
| | | | | | | | | | | + 801 | |
| | | 12 | | | | | | | | + 20 | |
| −2.57 $\delta_1$ | | ~~13~~ 55.37 | | 20 23.2 | | | | | | +1.00 | 4.20 |
| +19.05 | | | | | 4 | | | | | 20 ~~521~~ | 3.20 |
| | +30.03 | 4 51.4 | 3.4 | 114.8 | 4 5′.740 | 17′ | 50.65 | | 0 | 50° 19′ ~~52.11~~ | |
| | 1.47756 | 1.47756 | | | | 50 20 | 22.62 | | | 57.24 | +6.89 |
| d | 9.88636 | 9.80504 | | | | | −~~30.61~~ | | | − 24 | 7.86 |
| | 1.48585 | 1.40453 m | | | | | −25.38 | | | − 127 | |
| | | 12 | | | | | | | | + 820 | |
| −2.57 $\delta_2$ | | ~~13~~ 55.21 | | 20 14.2 | | | | | | + 20 | |
| +19.05 | | | | | 54 | | | | | + 0.10 | |
| | | | | | | | | | | 20 ~~520~~ | 5.20 |
| | +~~39~~.40 | 3 55.4 | 5.8 | 121.2 | 4 0′.60 | 28′ | 47.75 | | 50 | 52° 30′ ~~12.73~~ | |
| | 1.28780 | 1.28780 | | | | 52 31 | 15.14 | | | 59.51 | +9.32 |
| d | 9.89956 | 9.78428 | | | | | −~~62.41~~ | | | − 10 | 10.69 |
| | 1.30929 | 1.19401 m | | | | | −15.63 | | | − 112 | |
| | | | | | | | | | | +1024 | |
| | | | | | | | | | | + 30 | |
| −2.45 $\delta_1$ | | 23 22.10 | | 31 29.3 | | | | | | +1.30 | 10.52 |
| +18.74 | | | | | 54 | | | | | 31 ~~1.50~~ | ~~4.52~~ |
| | +12.19 | 4 6.4 | 18.5 | 24.9 | 4 1′245 | 28′ | 35.90 | | 50 | 52° 30′ ~~54.76~~ | |
| | 1.08600 | 1.08600 | | | | 52 31 | 7.57 | | | 57.15 | +9.17 |
| d | 9.89956 | 9.78428 | | | | | −~~12.81~~ | | | − 4 | 10.64 |
| | 1.10749 | 0.99221 m | | | | | −9.82 | | | − 109 | |
| | | | | | | | | | | +10.50 | |
| | | | | | | | | | | + 30 | |
| −2.45 $\delta_2$ | | 23 22.12 | | 31 27.4 | | | | | | +0.30 | |
| +18.74 | | | | | 35 | | | | | 31 ~~8.69~~ | 8.69 |
| | +35.69 | 0 11.5 | 25.7 | 37.2 | 0 1′860 | 47′ | 29.75 | | 35 | 50° 49′ ~~20.50~~ | |
| | 1.55255 | 1.55255 | | | | 50 49 | 54.14 | | | 27.29 | +8.34 |
| d | 9.88948 | 9.80043 | | | | | −~~36.64~~ | | | − 34 | 9.71 |
| | 1.56396 | 1.47491 m | | | | | −29.85 | | | − 8 | |
| | | | | | | | | | | + 857 | |
| | | | | | | | | | | + 25 | |
| −2.48 $\delta_1$ | | 24 28.92 | | 49 56.3 | | | | | | +1.60 | |
| +18.71 | | | | | 35 | | | | | 49 ~~3864~~ | 37.62 |
| | +16.51 | 0 33.5 | 47.8 | 81.3 | 0 4′065 | 47′ | 7.70 | | 35 | 50° 49′ ~~22.42~~ | |
| | 1.21775 | 1.21775 | | | | 50 49 | 39.37 | | | 25.56 | +8.72 |
| d | 9.88948 | 9.80043 | | | | | −~~16.65~~ | | | − 7 | 9.69 |
| | 1.22916 | 1.14011 m | | | | | −13.81 | | | − 18 | |
| | | | | | | | | | | + 872 | |
| | | | | | | | | | | + 25 | |
| −2.48 $\delta_2$ | | 24 28.92 | | 49 54.7 | | | | | | + 0.70 | |
| +18.71 | | | | | | | | | | 49 ~~3595~~ | |

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472 — 473 — 80

Date$_1$ = 1876, May 25 — Observer / Recorder

Date$_2$ = 1876, May 30 — 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 | 26 | 87 54 22 | 9.2 | 13 27 24.6 | 27 38.0 | 41.6 | 45.1 | 48.7 | 52.1 | 27 | 45.70 | | |
| | 26 | 15.0 27.3 | 9.3 | 27.0 | | | | | | | −36.54 | | |
| | κ | | | 30.4 | | | | | | | − 69 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 27.33 | | | | | − 37.37 | | − 14 | | |
| | | | | | | | | | | 27 | 7.43 | | |
| | $\alpha_1$ | | | | | | | | | | − 3.35 | | |
| | | | | | | | | | | | 4.38 | ✓ | |
| | | | 8.8 | 27 13.0 | 27 36.2 | 39.8 | 43.1 | 46.6 | 50.3 | 27 | 48.20 | | |
| | | | | 15.9 | | | | | | | −34.56 | | |
| | κ | | | 20.7 | | | | | | | − 70 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 16.53 | | | | | − 35.40 | | − 14 | | |
| | | | | | | | | | | 27 | 7.80 | | |
| | $\alpha_2$ | | | | | | | | | | − 3.26 | | |
| | | | | | | | | | | | 4.54 | | |
| | 29 4 | 54 23 | 7.9 | 29 17.2 | 29 43.7 | 48.9 | 52.5 | 56.0 | 59.5 | 29 | 52.46 | | |
| | 28 24.1 | 28.6 | 8.1 | 20.2 | | | | | | | −36.54 | | |
| | κ | | | 23.2 | | | | | | | − 69 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 20.20 | | | | | − 37.37 | | − 14 | | |
| | | | | | | | | | | 29 | 15.09 | | |
| | $\alpha_1$ | | | | | | | | | | − 3.36 | | |
| | | | | | | | | | | | 11.73 | | |
| | | | 7.7 | 29 14.6 | 29 43.0 | 46.9 | 50.4 | 53.7 | 57.4 | 29 | 50.36 | | |
| | | | | 17.0 | 43.4 | | | | | | −34.56 | | |
| | κ | | | 19.2 | | | | | | | − 70 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 16.93 | | | | | − 35.40 | | − 14 | | |
| | | | | | | | | | | 29 | 14.96 | | |
| | $\alpha_2$ | | | | | | | | | | − 3.27 | | |
| | | | | | | | | | | | 11.69 | | |
| | 31 50 | 53 16 | 8.7 | 32 6.5 | 32 38.3 | 38.8 | 42.4 | 45.7 | 49.1 | 32 | 42.26 | | |
| | 31 11.4 | 21.0 | 8.7 | 9.7 | | | | | | | −36.54 | | |
| | κ | | | 12.0 | | | | | | | − 65 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 9.40 | | | | | − 37.32 | | − 13 | | |
| | | | | | | | | | | 32 | 4.94 | | |
| | $\alpha_1$ | | | | | | | | | | − 3.30 | | |
| | | | | | | | | | | | 1.64 | | |
| | | | 8.7 | 32 5.9 | 32 33.5 | 37.0 | 40.0 | 43.8 | 47.1 | 32 | 40.28 | | |
| | | | | 9.0 | | | | | | | −34.56 | | |
| | κ | | | 12.9 | | | | | | | − 66 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 9.27 | | | | | − 34.35 | | − 13 | | |
| | | | | | | | | | | 32 | 4.93 | | |
| | $\alpha_2$ | | | | | | | | | | − 3.22 | | |
| | | | | | | | | | | | 1.71 | | |
| | 35 53 | 54 23 | 9.2 | 36 6.7 | 36 34.4 | 38.2 | 41.7 | 45.1 | 48.6 | 36 | 41.60 | | |
| | 35 11.5 | 28.3 | 9.3 | 9.0 | | | | | | | −36.54 | | |
| | κ | | | 12.7 | | | | | | | − 69 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 9.47 | | | | | − 37.37 | | − 14 | | |
| | | | | | | | | | | 36 | 4.23 | | |
| | $\alpha_1$ | | | | | | | | | | − 3.38 | | |
| | | | | | | | | | | | 0.85 | | |
| | | | 9.1 | 36 6.7 | 36 32.5 | 35.8 | 39.3 | 43.0 | 46.5 | 36 | 39.42 | | |
| | | | | 9.9 | | | | | | | −34.56 | | |
| | κ | | | 13.0 | | | | | | | − 70 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 9.87 | | | | | − 35.40 | | − 14 | | |
| | | | | | | | | | | 36 | 4.02 | | |
| | $\alpha_2$ | | | | | | | | | | − 3.29 | | |
| | | | | | | | | | | | 0.73 | | |
| | 36 43 | 53 59 | 9.2 | 37 8.9 | 37 24.2 | 27.6 | 31.0 | 34.7 | 38.1 | 37 | 31.12 | | |
| | 36 1.0 | 54.1 4.2 | 9.0 | 12.1 | | | | | | | −36.54 | | |
| | κ | | | 14.8 | | | | | | | − 67 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 11.93 ~~11.60~~ | | | | | − 37.35 | | − 14 | | |
| | | | | | | | | | | 36 | 53.77 | | |
| | $\alpha_1$ | | | | | | | | | | − 3.36 | | |
| | | | | | | | | | | | 50.41 | | |
| | | | 8.9 | 37 11.7 | 37 21.8 | 25.3 | 29.0 | 32.3 | 36.0 | 37 | 28.88 | | |
| | | | | 14.6 | | | | | | | −34.56 | | |
| | κ | | | 13.2 | | | | | | | − 69 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 15.17 | | | | | − 35.39 | | − 14 | | |
| | | | | | | | | | | 36 | 53.49 | | |
| | $\alpha_2$ | | | | | | | | | | − 3.27 | | |
| | | | | | | | | | | | 50.22 | | |

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Runs

+1.37

+0.97

| | $T_m - T_s$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +17.77 | 4 19.4 | 30.6 | 50.0 | 4′ 25″ | 18 | 23.35 | | 0 | 54° 20′ ~~37.63~~ 4.98 | |
| | 1.24969 | 1.24969 | | | | 54 20 | 50.74 | | | 37.03 | +11.18 |
| d | 9.90987 | 9.76554 | | | | | ~~-10.12~~ | | | − 8 | 12.55 |
| | 1.28149n | 1.13716m | | | | | −13.71 | | | − 123 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | +1214 | |
| | | | | | | | | | | + 35 | |
| −2.38 $\delta_1$ | | 27 2.00 | | 21 8.4 | | | | | | +1.20 | |
| +18.63 | | | | | | | | | | 20 ~~6878~~ | 49.80 |
| | +26.67 | 4 18.4 | 30.2 | 48.6 | 4 24.30 | 18 | 24.05 | | 0 | 54 20 ~~27.02~~ | |
| | 1.42602 | 1.42602 | | | | 54 20 | 55.72 | | | 35.14 | +11.48 |
| d | 9.90987 | 9.76554 | | | | | ~~-26.70~~ | | | − 19 | 12.45 |
| | 1.45782n | 1.31349m | | | | | −20.58 | | | − 114 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | +1246 | |
| | | | | | | | | | | + 35 | |
| −2.38 $\delta_2$ | | 27 2.16 | | 21 6.4 | | | | | | +0.20 | |
| +18.63 | | | | | | | | | | 20 4779 | |
| | +32.26 | 2 56.6 | 6.7 | 123.3 | 3 1.65 | 19 | 46.70 | | 0 | 54 21 ~~39.37~~ | |
| | 1.50866 | 1.50866 | | | | 54 22 | 14.09 | | | 49.20 | +11.41 |
| d | 9.90996 | 9.76537 | | | | | ~~-34.72~~ | | | − 27 | 12.78 |
| | 1.54055n | 1.39596m | | | | | −24.89 | | | − 84 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | +12.17 | |
| | | | | | | | | | | + 35 | |
| −2.36 $\delta_1$ | | 29 9.37 | | 22 20.9 | | | | | | +1.30 | |
| +18.56 | | | | | | | | | | 22 23~~.0~~ | |
| | +33.43 | 2 58.9 | 12.2 | 131.1 | 3 55.5 | 19 | 42.80 | | 0 | 54 21 ~~38.46~~ | |
| | 1.52414 | 1.52414 | | | | 54 22 | 14.47 | | | 48.68 | +11.73 |
| d | 9.90996 | 9.76537 | | | | | ~~-35.95~~ | | | − 29 | 12.70 |
| | 1.55603n | 1.41144m | | | | | −25.79 | | | − 81 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | +1248 | |
| | | | | | | | | | | + 35 | |
| −2.36 $\delta_2$ | | 29 9.33 | | 22 20.3 | | | | | | +0.40 | |
| +18.56 | | | | | | | | | | 22 1.78 | |
| | +32.86 | 4 22.1 | 33.6 | 55.7 | 9 4 27.85 | 13 | 20.50 | | 5 | 53 15 ~~13.02~~ | |
| | 1.51667 | 1.51667 | | | | 53 15 | 47.89 | | | 21.87 | +9.77 |
| d | 9.90386 | 9.77677 | | | | | ~~-34.87~~ | | | − 28 | 11.14 |
| | 1.54246n | 1.41537m | | | | | −26.02 | | | − 126 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | +1101 | |
| | | | | | | | | | | + 30 | |
| −2.37 $\delta_1$ | | 31 59.27 | | 15 52.3 | | | | | | +1.80 | |
| +18.46 | | | | | 9 | | | | | 15 3383 | |
| | +31.01 | 4 28.9 | 41.1 | 70.0 | 4 35.00 | 13 | 13.35 | | 5 | 53 15 ~~12.11~~ | |
| | 1.49150 | 1.49150 | | | | 53 15 | 45.02 | | | 20.46 | +10.13 |
| d | 9.90386 | 9.77677 | | | | | ~~-32.97~~ | | | − 25 | 11.10 |
| | 1.51729n | 1.39020m | | | | | −24.56 | | | − 120 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | +1128 | |
| | | | | | | | | | | + 30 | |
| −2.37 $\delta_2$ | | 31 59.34 | | 15 50.8 | | | | | | +0.80 | |
| +18.46 | | | | | | | | | | 15 32.36 | |
| | +32.13 | 3 3.5 | 15.3 | 18.8 | 3 9.40 | 19 | 38.95 | | 0 | 54 21 ~~31.76~~ | |
| | 1.50691 | 1.50691 | | | | 54 22 | 6.34 | | | 41.55 | +11.41 |
| d | 9.90996 | 9.76537 | | | | | ~~-34.58~~ | | | − 27 | 12.78 |
| | 1.53880n | 1.39421m | | | | | −24.79 | | | − 87 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | +1220 | |
| | | | | | | | | | | + 35 | |
| −2.31 $\delta_1$ | | 35 58.54 | | 22 13.5 | | | | | | +1.80 | |
| +18.32 | | | | | | | | | | 21 5575 | |
| | +29.53 | 3 10.9 | 23.2 | 34.1 | 3 17.05 | 19 | 31.30 | | 0 | 54 21 ~~31.14~~ | |
| | 1.47056 | 1.47056 | | | | 54 22 | 2.97 | | | 40.17 | +11.76 |
| d | 9.90996 | 9.76537 | | | | | ~~-31.80~~ | | | − 23 | 12.73 |
| | 1.50245n | 1.35786m | | | | | −22.80 | | | − 86 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | +12.50 | |
| | | | | | | | | | | + 35 | |
| −2.31 $\delta_2$ | | 35 58.42 | | 22 12.0 | | | | | | +0.80 | |
| +18.32 | | | | | 27 | | | | | 21 5370 | |
| | +19.19 | 2 16.6 | 27.4 | 44.0 | 2 22.00 | 55 | 26.35 | | 25 | 53 57 ~~33.19~~ | |
| | 1.28307 | 1.28307 | | | | 53 57 | 53.74 | | | 38.79 | +11.38 |
| d | 9.90744 | 9.76957 | | | | | ~~-20.55~~ | | | − 9 | 12.75 |
| | 1.31277n | 1.17494m | | | | | −14.95 | | | − 67 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | +1179 | |
| | | | | | | | | | | + 35 | |
| −2.32 $\delta_1$ | | 36 48.09 | | 58 10.9 | 27 −.05 | | | | | +2.00 | |
| +18.30 | | | | | | | | | | 57 52.56 | |
| | +13.71 | 2 26.6 | 38.5 | 65.1 | 2 32.55 | 55 | 15.85 0 | | 25 | 53 57 ~~32.84~~ 79 | |
| | 1.13704 | 1.13704 | | | | 53 57 | 47.~~00~~ 47 | | | 36.84 | +11.65 |
| d | 9.90744 | 9.76957 | | | | | ~~-14.68~~ | | | − 5 | 12.62 |
| | 1.16674n | 1.02854m | | | | | −10.68 | | | − 65 | |
| ((δ) — D) $\frac{d'}{100}$ | | | | | | | | | | +12.05 | |
| | | | | | | | | | | + 30 | |
| −2.32 $\delta_2$ | | 36 47.90 | | 58 8.8 | | | | | | +1.00 | |
| +18.30 | | | | | | | | | | 57 5046 | |

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472 473 82

Date$_1$ = 1876, May 25 Observer Recorder

Date$_2$ = 1876, May 30 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 38 57 | 52 41 | 6.0 | 13 39 12.6 | 39 39.9 | 43.3 | 46.8 | 50.2 | 53.6 | 39 | 46.76 | | |
| | 38 16.2 | 46.3 | 6.2 | 14.8 | | | | | | | −36.54 | | |
| | κ | | | 17.6 | | | | | | | − 64 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 1500 | | | | | − 37.31 | | − 13 | | |
| | $\alpha_1$ | | | | | | | | | 39 | 9.45 | | |
| | | | | | | | | | | | − 3.30 | | |
| | | | | | | | | | | | 6.15 | | |
| | | | 6.5 | 39 6.2 | 39 39.8 | 41.3 | 44.6 | 48.0 | 51.4 | 39 | 44.62 | | |
| | | | | 9.1 | | | | | | | − 34.57 | | |
| | κ | | | 11.4 | | | | | 5 | | − 65 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 8.90 | | | | | − 34.35 | | − 13 | | |
| | $\alpha_2$ | | | | | | | | | 39 | 9.27 | | |
| | | | | | | | | | | | − 3.21 | | |
| | | | | | | | | | | | 6.06 | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| May 30 | $\alpha_1$ | | | | | | | | | | | | |
| 13 | 32 57 | 51 37 | 7.8 | 13 33 7.0 | 33 38.3 | 41.5 | 45.0 | 48.3 | 51.7 | 33 | 44.96 | | |
| | 32 15.5 | 42.6 | 8.0 | 9.5 | | | | | | | − 34.56 | | |
| | κ | | | 12.0 | | | | | | | − 63 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 9.50 | | | | | − 35.32 | | − 13 | | |
| | | | | | | | | | | 33 | 9.64 | | |
| May 30 | $\alpha_2$ | | | | | | | | | | − 3.14 | | |
| | | | | | | | | | | | 6.50 | | |
| 12 | 50 2 | 53 26 | 8.6 | 12 50 27.4 | 50 43.9 | 47.4 | 51.0 | 54.4 | 57.8 | 50 | 50.90 | | |
| | 49 16.3 | 31.8 | 7.5 | 31.6 | | | | | | | −34.55 | | |
| | κ | | | 33.7 | | | | | | | − 68 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 30.90 | | | | | − 35.36 | | − 13 | | |
| | | | | | | | | | | 50 | 15.54 | | |
| May 25 | $\alpha_1$ | | | | | | | | | | − 3.~~22~~ 08 | | |
| | | | | | | | | | | | 12.46 | | |
| 12 | 50 2 | 53 26 | 8.2 | 12 50 47.0 | 50 46.3 | 49.6 | 53.0 | 56.4 | 59.9 | 50 | 53.04 | | |
| | 49 16.3 | 31.8 | 7.5 | 50.6 | | | | | | | −36.34 | | |
| | κ | | | 52.6 | | | | | | | − 66 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 3007 | | | | | − 37.33 | | − 13 | | |
| | | | | | | | | | | 50 | 15.70 | | |
| | $\alpha_2$ | | | | | | | | | | −3.17 | | |
| | | | | | | | | | | | 12.54 | | |
| | 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) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |

Single Observations

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1876phae.proj.1600R



+1.37
+0.97

Runs

| | $T_m - T_2$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +31.76 | 3 38.9 | 50.2 | 89.1 | 43 31 44.55 | 39′ | 3.80″ | | 40 | 52″ ~~40 57.78~~ 0.98 | |
| | 1.50188 | 1.50188 | | | | 52 41 | 31.19 | | | 41 6.71 | +9.44 |
| d | 9.90063 | 9.78246 | | | | | −~~33.15~~ | | | − 26 | 10.81 |
| | 1.52447n | 1.40627n | | | | | −25.48 | | | − 104 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 1044 | |
| | | | | | | | | | | + 30 | |
| −2.34 $\delta_1$ | | 39 3.81 | | 41 36.2 | | | | | | +2.40 | |
| +18.21 | | | | | 43 | | | | | 41 17.94 | |
| | +35.72 | 3 40.6 | 52.5 | 93.1 | 3 46.55 | 39 | 1.80 | | 40 | 52 ~~40 55.65~~ | |
| | 1.55291 | 1.55291 | | | | 52 41 | 33.47 | | | 41 4.81 | +~~9.67~~ |
| d | 9.90063 | 9.78246 | | | | | −~~37.62~~ | | | − 33 | 10.64 |
| | 1.57547n | 1.45730n | | | | | −28.66 | | | − 99 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +1067 | |
| | | | | | | | | | | + 30 | |
| −2.34 $\delta_2$ | | 39 3.72 | | 41 35.1 | | | | | | +1.40 | |
| +18.21 | | | | | | | | | | 41 16.85 | |
| d | | | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | +35.46 | 4 27.4 | 40.5 | 67.9 | 4 33.95 | 33 | 14.40 | | 45 | 51 35 ~~9.27~~ | |
| | 1.54974 | 1.54974 | | | | 51 35 | 46.07 | | | 16.91 | +~~8.31~~ |
| d | 9.89415 | 9.79319 | | | | | −~~36.80~~ | | | − 34 | 9.28 |
| | 1.56582n | 1.46486n | | | | | −29.16 | | | − 120 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 955 | |
| | | | | | | | | | | + 30 | |
| −2.41 $\delta_2$ | | 33 4.09 | | 35 45.6 | | | | | | +1.00 | |
| +18.42 | | | | | | | | | | 35 ~~0.78~~ | 27.19 |
| | +20.00 | 0 13.9 | 26.2 | 40.1 | 0 20.05 | 22 | 28.30 | | 0 | 53 24 ~~38.70~~ | |
| | 1.30103 | 1.30103 | | | | 53 24 | 59.97 | | | 44.19 | +~~11.55~~ |
| d | 9.90471 | 9.77524 | | | | | −~~21.24~~ | | | − 16 | 12.52 |
| | 1.32967n | 1.19820n | | | | | −15.78 | | | − 8 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +1143 | |
| | | | | | | | | | | + 30 | |
| −2.68 $\delta_1$ | | 50 9.78 | | 25 14.2 | | | | | | −2.10 | |
| +19.58 | | | | | | | | | | 24 54.61 | |
| | +2.97 | — — | — | | | | | | — | | |
| | 0.47276 | ~~1.00~~ | | | | | | | | | |
| d | | | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| −2.68 $\delta_2$ | | 50 9.86 | | | | | | | | ~~+.20~~ | |
| 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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474 475 84

Date$_1$ = 1876 Aug. 6 n = −11.05 Observer / Recorder

Date$_2$ = 1876 Aug. 8 n = −11.08 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 47 | 44 17 | 54 13 | 8.9 | 17 44 8.8 | 44 12.2 | 15.6 | 19.2 | 22.6 | 26.2 | | 44 19.46 | | |
| | 42 ~~40~~ 35.3 | ~~40~~ 16.5 | 9.0 | 12.6 | | | | | − 11.23 | | − 9.79 | | |
| | κ | | | 15.1 | | | | | | | − 1.44 | | |
| | | | | 12.87 | | | | | | | 44 7.93 | −2.41 | |
| | (δ) − D $\frac{\kappa'}{100}$ | | 8.7 | 43 44.1 | 44 26.7 | 30.3 | 33.8 | 37.3 | 40.7 | | 44 33.76 | 5.52 | |
| | 43 54.0 | 54 14.0 | | 47.0 | | | | | | | − 9.79 | | |
| | $\alpha_1$ | | | 35.0 | | | | | − 11.23 | | − 1.44 | | |
| | | | | 47.03 | | | | | | | 44 22.53 | −2.42 | |
| | | | | | | | | | | | | 20.11 | |
| | | | 9.2 | 43 33.8 | 44 — | — | 21.7 | 25.3 | 28.7 | | 44 21.70 | | Add +0.06 to (21h+2m) Aug 8. It has been added to sum of constants and to final R.A. |
| | | | | 37.1 | | | 21.8 | | | +006 | −12.18 | | |
| | κ | | | 0.3 | | | 21.6 | | | | − 1.49 | | |
| | | | | 57.07 | | | | | − 13.65 | +01 | 44 8.04 | −2.37 | |
| | (δ) − D $\frac{\kappa'}{100}$ | | 8.8 | 44 ~~49~~ 49.3 | 44 29.4 | 32.9 | 36.2 | 39.8 | 43.4 | | 44 36.34 | 5.69 | |
| | | | | 58.4 | | | | | | | −12.17 | | |
| | $\alpha_2$ | | | 1.2 | | | | | − 13.66 | | − 1.49 | 68 | |
| | | | | 58.77 | 43.4 | | | | | | 44 22.78 | −2.37 | |
| | | | | | | | | | | | | 20.31 | |
| 47 | 47 24 | 54 40 | 9.0 | 46 58.7 | 47 ~~29.1~~ | 47.0 | 50.6 | 54.0 | 57.6 | | 47 50.52 | 41 | |
| | 47 114 | 40.6 | 8.8 | 1.5 | 32.4 | | | | | | − 9.79 | 20.78 | |
| | κ | | | 4.0 | | | | | − 11.26 | | − 1.45 | 31 | |
| | | | | 1.40 | | | | | | | 47 39.26 | | |
| | (δ) − D $\frac{\kappa'}{100}$ | | | | | | | | | | −2.43 | | |
| | | | | | | | | | | | 36.83 | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | | | 9.0 | 47 31.1 | 47 45.9 | 49.4 | 53.0 | 56.5 | 0.0 | | 47 52.96 | | |
| | | | | 34.4 | | | | | | | − 12.18 | | |
| | κ | | | 87.2 | | | | | − 13.69 | | − 1.51 | | |
| | | | | 84.23 | | | | | | | 47 39.27 | | |
| | (δ) − D $\frac{\kappa'}{100}$ | | | | | | | | | | − 2.38 | | |
| | | | | | | | | | | | 36.89 | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| 50 | 50 27 | 52 23 | 8.3 | 50 9.8 | 50 48.2 | 51.6 | 53.0 | 56.4 | 1.7 | | 50 54.98 | | |
| | 50 13.9 | 24.5 | 8.0 | 12.7 | | | | | | | − 9.80 | | |
| | κ | | | 13.0 | | | | | − 11.16 | | − 1.36 | | |
| | | | | 12.50 | | | | | | | 50 43.82 | | |
| | (δ) − D $\frac{\kappa'}{100}$ | | | | | | | | | | − 2.45 | | |
| | | | | | | | | | | | 41.37 | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | | | 8.0 | 50 16.9 | 50 50.7 | 54.1 | 57.5 | 0.9 | 4.2 | | 50 57.48 | | |
| | | | | 21.0 | | | | | | | −12.18 | | |
| | κ | | | 23.0 | | | | | − 13.59 | +01 | − 1.40 | | |
| | | | | 19.97 | | | | | | | 50 43.90 | | |
| | (δ) − D $\frac{\kappa'}{100}$ | | | | | | | | | | − 2.40 | | |
| | | | | | | | | | | | 41.50 | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| 54 | 11 | 51 (58) | 9.0 | 54 47.7 | 55 22.9 | 26.3 | 29.7 | 33.0 | 36.4 | | 55 29.66 | | |
| 54 | 47.9 | 59.6 | 8.7 | 50.2 | | | | | | | − 9.80 | | |
| | κ | | | 52.7 | | | | | − 11.14 | | − 1.34 | | |
| | | | | 52.20 | | | | | | | 55 18.52 | | |
| | (δ) − D $\frac{\kappa'}{100}$ | | | | | | | | | | − 2.47 | | |
| | | | | | | | | | | | 16.05 | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | | | 8.8 | 54 53.6 | 55 25.5 | 28.8 | 32.2 | 35.4 | 38.9 | | 55 32.16 | | |
| | | | | 56.0 | | | | | | | −12.19 | | |
| | κ | | | 58.7 | | | | | − 13.57 | | − 1.38 | | |
| | | | | 58.10 | | | | | | | 55 18.59 | | |
| | (δ) − D $\frac{\kappa'}{100}$ | | | | | | | | | | −2.42 | | |
| | | | | | | | | | | | 16.17 | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| 58 | 15 | 53 21 | 8.4 | 57 47.8 | 58 26.4 | 29.8 | 33.2 | 36.8 | 40.2 | | 58 33.28 | | |
| 57 | 57.9 | 20.7 | 8.5 | 50.4 | | | | | | | − 9.80 | | |
| | κ | | | 52.7 | | | | | − 11.22 | | − 1.42 | | |
| | | | | 50.80 | | | | | | | 58 22.06 | | |
| | (δ) − D $\frac{\kappa'}{100}$ | | | | | | | | | | −2.47 | | |
| | | | | | | | | | | | ~~20.54~~ 19.59 | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | | | 8.2 | 57 48.4 | 58 28.8 | 32.3 | 35.7 | 39.1 | 42.6 | | 58 38.70 | | |
| | | | | 51.9 | | | | | | | −12.19 | | |
| | κ | | | 54.3 | | | | | − 13.65 | +01 | − 1.46 | | |
| | | | | 51.53 | | | | | | | 58 22.05 | | |
| | (δ) − D $\frac{\kappa'}{100}$ | | | | | | | | | | − 2.42 | | |
| | | | | | | | | | | | 19.63 | | |
| | $\alpha_2$ | | | | | | | | | | | | |

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Aug 6 43.27 −.12 +2.98 +2.98

Runs 8 +3′ 43.36 −.12 +3.27 +3.27
44.12

| | $T_m - T_8$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | 8′ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | +6.99 | 2′ 47.6 | 44.9 | 12.5 | 12′ 2 4.625 | 1′20 | 2.10 | | 10 | 54 13 39.95 | 13 41.75 | 9.17 |
| | 0.844448 | | | | | 54 13 | 45.37 | | | − 1 | +1.51 − 56 | +10.96 |
| −1.22 d | 9.76677 | | | | | | − 5.42 | | | − 33 | 14.49 − 33 | 13.94 |
| +1.37 | 0.733 [illegible] | | | | 12 | | − 3.620 | | | +1155 | +1155 | |
| ((δ) − D) $\frac{d'}{100}$ | +46.73 | 2 47.6 | 44.9 | 12.5 | 2 4.625 | 1′20 | 2.10 | | 10 | + 30 | + 30 | 24.11 |
| | 1.66960 | | | | | | | | | −500 | −5.00 | |
| −1.22 $\delta_1$ | 9.76677 | 44 4.30 | | 13 50.8 | | | | | | 13 49.44 | 13 50.69 | 48.11 |
| +1.37 | 1.55858 [illegible] | 18.89 | | 19.5 | 12 | | | | | | | |
| | +24.6 | 2 34.6 | 32.8 | 7.4 | 2 3.370 | 1′20 | 14.65 | | 10 | 13 39.71 | 13 17.34 | |
| −1.22 d | 1.39094 | | | | | 54 13 | 56.11 | 56.77 | | − 16 | +11.40 − 32 | + 11.11 |
| +1.37 | 9.76677 | 9.76677 | | | | | 58.47 | | | − 31 | 14.67 * 44 | 14.38 |
| | 1.28007 | | | | 13 | | 19.56 | | | +1157 | +1157 | |
| ((δ) − D) $\frac{d'}{100}$ | − 31.88 | 3 41.8 | 39.3 | 81.1 | 3 4.053 | 09 | 7.80 | | 10 | + 30 | + 30 | |
| 1.88703 | 1.54900 | | | | | 54 12 | 51.11 | 51.92 | | −530 | −530 | |
| 9.76677 | 9.76695 | 44 4.47 | 13 50.5 | | | 16.91 | + 17.87 | | | 13 49.08 | 13 22.42 | 18.01 ? |
| −1.22 1.24845 | 1.43813 | 19.09 | 19.4 | | 45 | | | | | | | |
| +1.37 1.23077 | | | | | | | | | | | | |
| | +49.12 | 0 52.0 | 49.2 | 101.2 | 0 5.060 | 36 | 57.75 | | 45 | 54 40 3.38 | | |
| | 1.69126 | | | | | 54 40 | 41.02 | | | − 63 | +11.61 | |
| d | 9.76200 | | | | | | − 37.64 | | | − 10 | 14.59 | |
| | 1.57562 [illegible] | | | | | | | | | +11.99 | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 35 | | |
| | | | | | | | | | | −500 | | |
| −1.19 $\delta_1$ | | 47 35.64 | | 40 14.0 | | | | | | 40 12.97 | | |
| +1.08 | | | | | 46 | | | | | | | |
| | +18.73 | 1 16.1 | 14.1 | 1.02 | 1 1.570 | 36 | 33.25 | | 45 | 54 29 56.40 | | |
| | 1.27254 | 1.27254 | | | | 54 40 | 16.61 | 17.37 | | 40 2.95 | +12.13 | |
| d | 9.91069 | 9.76395 | | | | | − 20.21 | −14.42 | | − 9 | 15.40 | |
| | 1.30559 | 24.15885 [illegible] | | | | | | | | − 15 | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +12.02 | | |
| | | 35.70 | | | | | | | | + 35 | | |
| −1.19 $\delta_2$ | | 47 38.68 | | 40 14.0 | | | | | | −540 | | |
| +1.08 | | | | | | | | | | 40 12.95 | | |
| | +42.48 | 1 31.8 | 30.8 | 2.6 | 1 3.130 | 21 | 17.05 | | 0 | 52 24 25.98 | | |
| | 1.62818 | | | | | 52 25 | 0.32 | | | − .48 | +9.41 | |
| d | 9.78527 | | | | | | −34.34 | | | − 18 | 12.39 | |
| | 1.53538 [illegible] | | | | | | | | | + 977 | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 30 | | |
| | | 40.03 | | | | | | | | − 4.90 | | |
| −1.34 $\delta_1$ | | 50 41.71 | | 24 34.3 | | | | | | 24 23.47 | 33.47 | |
| +0.82 | | | | | | | | | | | | |
| | +37.51 | 1 37.1 | 34.4 | 11.5 | 1 3.575 | 21 | 12.60 | | 0 | 52 24 16.56 | | |
| | 1.57415 | 1.57415 | | | | 52 14 | 55.96 | 56.72 | | 26.33 | +9.50 | |
| d | 9.89898 | 9.78527 | | | | | − 39.40 | −30.39 | | − 37 | 12.77 | |
| | 1.59549 | 21.48278 [illegible] | | | | | | | | − 17 | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 9.76 | | |
| | | 40.16 | | | | | | | | + 30 | | |
| −1.34 $\delta_2$ | | 50 42.54 | | 24 34.6 | | | | | | −530 | | |
| +0.82 | | | | | 26 +0.5 | | | | | 24 33.60 | | |
| | +39.46 | 1 24.1 | 22.9 | 7.0 | 1 2.350 | 36 | 24.80 | | 25 | 51 59 35.87 | | |
| | 1.59616 | | | | | 52 0 | 8.07 | | | − 41 | +9.05 | |
| d | 9.78934 | | | | | | −32.20 | | | − 17 | 12.03 | |
| | 1.50786 [illegible] | | | | | | | | | + 933 | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 30 | | |
| | | 14.69 | | 59 43.4 | | | | | | −490 | | |
| −1.36 $\delta_1$ | | 55 17.44 | | | 26 | | | | | 59 43.00 | | |
| +0.42 | | | | | | | | | | | | |
| | +36.06 | 1 27.9 | 27.1 | 1.0 | 1 2.750 | 36 | 20.85 | | 25 | 51 59 26.55 | | |
| | 1.55703 | 1.55703 | | | | 52 0 | 4.21 | 4.97 | | 35.54 | +9.16 | |
| d | 9.89653 | 9.78934 | | | | | − 37.66 | −29.43 | | − 34 | 12.43 | |
| | 1.57592 | 21.46873 [illegible] | | | | | | | | − 17 | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 937 | | |
| | | 14.81 | | | | | | | | + 30 | | |
| −1.36 $\delta_2$ | | 55 17.53 | | 59 43.1 | 5 | | | | | −530 | | |
| +0.42 | | | | | | | | | | 59 42.67 | | |
| | +42.98 | 0 10.4 | 8.9 | 19.3 | 0 9.65 | 17.22 | 38.70 | | 5 | 53 20 47.97 | | |
| | 1.63327 | | | | | 53 21 | 21.97 | | | − 48 | +10.49 | |
| d | 9.77592 | | | | | | −34.00 | | | − 2 | 13.47 | |
| | 1.53155 [illegible] | | | | | | | | | + 8.69 | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 30 | | |
| | | | | | | | | | | −500 | | |
| −1.28 $\delta_1$ | | 58 18.31 | | 20 56.6 | | | | | | 20 56.34 | 44 | |
| +0.15 | | | | | 5 | | | | | | | |
| | +44.17 | 0 10.6 | 8.6 | 19.2 | 0 9.60 | 17.22 | 38.75 | | 5 | 53 20 35.44 | | |
| | 1.64513 | 1.64513 | | | | 53 21 | 22.11 | 22.87 | | 20 47.92 | +10.48 | |
| d | 9.90434 | 9.77592 | | | | | − 46.97 | −34.95 | | − 52 | 13.75 | |
| | 1.67183 | 21.54341 [illegible] | | | | | | | | − 2 | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +10.72 | | |
| | | | | | | | | | | + 30 | | |
| −1.28 $\delta_2$ | | 58 18.36 | | 20 56.4 | | | | | | −540 | | |
| +0.15 | | | | | | | | | | 20 56.27 | | |

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474 475 86

Date$_1$ = 1876 Aug 6 Observer / Recorder

Date$_2$ = Aug. 8 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18 | h m s<br>0 1<br>59 38.2 | 50° 42′<br>41.9 | 8.0<br>8.2 | 17 57 26.1<br>38.7<br>41.1<br>38.83 | 18<br>0 14.8 | 18.1 | 21.4 | 24.7 | 28.0<br>− 11.07 | 0 | m s<br>21.40<br>− 9.80<br>− 1.27<br>0 10.33<br>− 2.49<br>7.84 | | |
| κ | | | | | | | | | | | | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $\alpha_1$ | | | | | | | | | | | | | |
| | | | 7.9 | 57 42.6<br>45.4<br>47.6<br>45.20 | 0 17.4 | 20.5 | 24.0 | 27.1 | 30.4<br>− 13.51 | 0 | 23.88<br>−12.19 20<br>− 1.31<br>0 10.38<br>− 2.45<br>7.92 | | |
| κ | | | | | | | | | | | | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $\alpha_2$ | | | | | | | | | | | | | |
| 2 42<br>2 19.5 | 50 21<br>20.6 | 8.3<br>8.3 | 18 2 19.3<br>21.8<br>24.5<br>21.87 | 2 56.5 | 59.7 | 3.0 | 6.1 | 9.4<br>− 11.08 | 3 | 2.94<br>− 9.81<br>− 1.27<br>2 51.86<br>− 2.50<br>49.36 | | |
| κ | | | | | | | | | | | | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $\alpha_1$ | | | | | | | | | | | | | |
| | | | 8.5 | 2 33.0<br>36.1<br>38.3<br>35.87 | 2 37.0 | 2.2 | 6.4 | 8.6 | 11.8<br>− 13.51 +.01 | 3 | 5.40<br>−12.19 20<br>− 1.31<br>2 51.90<br>− 2.46<br>49.44 | | |
| κ | | | | | | | | | | | | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $\alpha_2$ | | | | | | | | | | | | | |
| 4 42<br>4 19.1 | 53 10<br>10.2 | 7.9<br>7.8 | 4 21.2<br>24.6<br>27.6<br>24.87 | 4 53.2 | 56.7 | 0.0 | 3.5 | 7.0<br>− 11.21 | 5 | 0.08<br>− 9.81<br>− 1.40<br>4 48.87<br>− 2.49<br>46.38 | | |
| κ | | | | | | | | | | | | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $\alpha_1$ | | | | | | | | | | | | | |
| | | | 8.2 | 4 21.6<br>24.4<br>27.5<br>24.50 | 4 53.7 | 56.1 | 2.5 | 6.1 | 9.4<br>− 13.64 | 5 | 2.58<br>−12.20<br>− 1.44<br>4 48.92<br>− 2.44<br>46.48 | | |
| κ | | | | | | | | | | | | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $\alpha_2$ | | | | | | | | | | | | | |
| 8 24<br>8 1.1<br>7 42.9 | 53 28<br>27.6<br>53 28.2 | 8.0<br>7.3<br>9.2 | 7 37.8<br>41.4<br>43.9<br>41.03 | 8 14.5 | 18.0 | 21.3 | 25.0 | 28.5<br>− 11.23 | 8 | 21.46<br>− 9.81<br>− 1.42<br>8 10.23<br>− 2.50<br>7.73 | | |
| κ | | | | | | | | | | | | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $\alpha_1$ | | | | | | | | | | | | | |
| | | | 8.2 | | | | | | | | | | |
| κ | | | | | | | | | | | | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | −2.45 | | |
| $\alpha_2$ | | | | | | | | | | | | | |
| κ | | | | Single Observations | | | | | | | | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $\alpha_1$ | | | | | | | | | | | | | |
| Aug. 6<br>17 38 6<br>37 4.9 | 53 23<br>24.0<br>.2 | 8.4<br>9.6 | 17 38 12.5<br>15.3<br>18.0<br>15.27 | 37 — | — | 58.1<br>58.1<br>58.1 | 1.6 | 5.0<br>− 11.21 | 37 | 58.10<br>− 9.79<br>− 1.42<br>37 46.89<br>− 2.48<br>44.48 | | |
| κ 18.1 | | | | | | | | | | | | | |
| ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | | |
| $\alpha_2$ | | | | | | | | | | | | | |

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+2.98

+3.27

Runs

| | $T_m - T$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +42.77 | 4′ 32″.3 | 30″.3 | 26 | 4 31″.30 | 38′ | 17″.05 | | 40′ | 50 41 24.41 | |
| | 1.631114 | | | | | 50 42 | 0.32 | | | − 49 | +7.27 |
| d | 9.801664 | | | | | | −35.91 | | | − 54 | 10.25 |
| | 1.555160 | | | | | | | | | + 8.05 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 25 | |
| | | | | | | | | | | −4.80 | |
| −1.44 $\delta_1$ | | 0 6.40 | | 41 29.8 | | | | | | 41 29.86 | |
| −0.01 | | | | | 44 | | | | | | |
| | +38.68 | 4 36.9 | 34.2 | 11.1 | 4 35.55 | 38 | 12.80 | | 40 | 50 41 ~~16.49~~ | |
| | 1.587749 | 1.587749 | | | | 50 41 | ~~50.16~~ | 56.92 | | 24.45 | +7.39 |
| d | 9.888659 | 9.801664 | | | | | − ~~35.67~~ | −32.47 | | − 40 | 10.66 |
| | 1.598508 | 1.511513 | | | | | | | | − 54 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 8.08 | |
| | | | | | | | | | | + 25 | |
| −1.44 $\delta_2$ | | 0 6.48 | | 41 29.8 | | | | | | −5.30 | |
| −0.01 | | | | | 6 | | | | | 41 29.81 | |
| | +41.07 | 1 33.1 | 31.0 | 4.1 | 1 32.05 | 16 | 16.30 | | 5 | 50 19 24.82 | |
| | 1.613520 | | | | | 50 19 | 59.57 | | | − 45 | +7.26 |
| d | 9.805040 | | | | | | −34.75 | | | − 17 | 10.24 |
| | 1.540920 | | | | | | | | | + 768 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 20 | |
| | | | | | | | | | | −4.80 | |
| −1.46 $\delta_1$ | | 2 47.90 | | 19 30.0 | | | | | | 19 30.26 | |
| −0.25 | | | | | 6 | | | | | | |
| | +29.53 | 1 43.3 | 41.9 | 5.2 | 1 42.60 | 16 | 5.75 | | 5 | 50 19 ~~16.68~~ 24.82 | |
| | 1.470260 | 1.470260 | | | | 50 19 | ~~46.11~~ | 49.87 | | ~~18.42~~ | +7.47 |
| d | 9.885636 | 9.805040 | | | | | − ~~30.13~~ | −~~31.45~~ | | − 24 | 10.74 |
| | 1.478984 | 1.397660 | | | | | | 24.95 | | − 20 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 7.71 | |
| | | | | | | | | | | + 20 | |
| −1.46 $\delta_2$ | | 2 47.98 | | 19 30.1 | | | | | | −5.80 | |
| −0.25 | | | | | 16 | | | | | 19 ~~23.86~~ 30.32 | |
| | ~~+35.61~~ | | | | | | | | | | |
| | ~~+24.37~~ | 1 18.6 | 16.1 | 14.7 | 1 17.35 | 06 | 31.00 | | 15 | 53 9 45.98 | |
| | ~~+38.42~~ | | | | | 53 10 | 14.27 | | | − 33 | +10.33 |
| d | 4.551557 | | | | | | −28.29 | | | − 15 | 13.31 |
| | 9.777778 | | | | | | | | | + 10.51 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.451614 | | | | | | | | | + 30 | |
| | | | | | | | | | | −510 | |
| −1.29 $\delta_1$ | | 4 45.09 | | 9 53.8 | | | | | | 9 54.19 | |
| −0.41 | | | | | 16 | | | | | | |
| | +38.06 | 1 17.0 | 14.2 | 11.2 | 1 15.60 | 06 | 32.75 | | 15 | 53 9 ~~35.73~~ | |
| | 1.580447 | 1.580447 | | | | 53 10 | ~~16.11~~ | 16.87 | | 46.63 | +10.31 |
| d | 9.903309 | 9.777778 | | | | | − ~~40.98~~ | −30.24 | | − 38 | 13.58 |
| | 1.606136 | 1.480611 | | | | | | | | − 15 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 10.54 | |
| | | | | | | | | | | + 30 | |
| −1.29 $\delta_2$ | | 4 45.19 | | 9 54.3 | | | | | | −550 | |
| −0.41 | | | | | 59 | | | | | 9 54.71 | |
| | +40.43 | 4 31.3 | 28.9 | 60.2 | 4 30.10 | 23 ~~78~~ | 18.25 | | 85 | 53 ~~28~~ 57.11 | |
| | 1.606703 | | | | | 53 27 | 1.52 | | | − 43 | +10.11 |
| d | 9.774903 | | | | | | −31.91 | | | − 53 | 13.09 |
| | 1.503963 | | | | | | | | | + 10.77 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | 57 | | | | | + 30 | |
| | | 2 54.0 | 51.2 | 5.2 | 2 52.60 | 24~~19~~ | 55.75 | | 55 | − 510 | |
| −1.27 $\delta_1$ | | 8 6.46 | | 28 14.4 | | 28 | 35.02 | | | ~~26 37.61~~ | |
| −0.73 | | | | | 58 | | −31.51 | | | 28 15.10 | |
| | | 3 18.4 | 15.9 | 14.3 | 3 17.15 | 24~~19~~ | 31.20 | | 85 | ~~16.64~~ | |
| | | | | | | 53 28 | ~~14.56~~ | 15.32 | | | |
| d | | 9.774773 | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | −550 | |
| $\delta_2$ | | | | | | | | | | | |
| d | | | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | | | | | 4 | | | | | | |
| | −17.2 | 3 2.1 | 59.9 | 12.2.0 | 4 1.00 | 18 9 | 4735 | | 0 | 53 2~~2~~ 3 44.22 | |
| | 1.235534 | | | | 3 | 53 ~~22~~ 3 | 30.62 | | | − 8 | +10.45 |
| d | 9.775755 | | | | | + | 13.60 | | | − 48 | 13.43 |
| | 1.133644 | | | | | | | | | + 9.71 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 30 | |
| | | | | | | | | | | −4.80 | |
| −1.28 $\delta_2$ | | | | | | | | | | | |
| +1.95 | | 37 43.20 | | 23 54.8 | | | | | | 23 ~~53.14~~ | 52.85 |
| | | | | | | | | | | ~~55.05~~ | |

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476 477 88

Date$_1$ = 1876 Aug 9 n = -1.05 Observer Recorder

Date$_2$ = 1876 Aug 10 n = -1.05 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 39 | 53 28 | 7.6 | 17 43 57.3 | 44 3.7 | 7.2 | 10.8 | 14.3 | 17.8 | 44 | 10.76 | Add +0.10 to (II+m) Aug 9. 21 has been added to the sum of the constants and to final R.A. | |
| | 43 26.4 | 26 | 7.5 | 0.6 | | | | | +0.10 | | -13.44 | | |
| | κ | 3 7.7 | | 3.0 | | | | | -14.85 | | - 1.42 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 0.30 | | | | | | 43 | 55.90 | | |
| | $\alpha_1$ | | | | | | | | | | - 2.35 | | |
| | | | | | | | | | | | 53.55 | | |
| | | | 7.5 | 43 30.8 | 44 4.8 | 8.3 | 11.8 | 15.2 | 18.8 | 44 | 11.78 | | |
| | | | | 33.1 | | | | | | | -14.53 | | |
| | κ | | | 36.1 | | | | | - 15.95 | | - 1.42 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 3333 | | | | | | 43 | 55.83 | | |
| | $\alpha_2$ | | | | | | | | | | - 2.32 | | |
| | | | | | | | | | | | 53.51 | | |
| 47 | 42 | 54 28 | 9.3 | 46 39.7 | 47 7.6 | 11.2 | 14.7 | 18.2 | 21.7 | 47 | 1468 | | |
| 47 | 42.6 | | 9.4 | 43.0 | | | | | | | -13.45 | | |
| | κ | 28.8 | | 45.7 | | | | | -14.91 | | - 1.47 | | |
| no 2m. place | ((δ) — D) $\frac{\kappa'}{100}$ | | | 4287 | | | | | - 4 | 47 | 59.77 | | |
| | $\alpha_1$ | | | | | | | | | | - 2.35 | | |
| | | | | | | | | | | 46 | 57.42 | | |
| | | | 9.4 | 47 38.7 | 47 8.5 | 12.2 | 15.7 | 19.3 | 23.0 | 47 | 1574 | | |
| | | | | 7.0 | | | | | | | -14.53 | | |
| | κ | | | 10.7 | | | | | -16.00 | | - 1.47 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 7.7 | | | | | | 46 | 59.74 | | |
| | $\alpha_2$ | | | | | | | | | | - 2.32 | | |
| | | | | | | | | | | 46 | 57.42 | | |
| 50 | 23 | 53 18 | 9.0 | 50 8.8 | 50 27.8 | 31.3 | 34.7 | 38.6 | 42.0 | 50 | 3492 | | |
| 49 | 39.8 | 17.8 | 8.8 | 13.2 | | | | | | | -13.45 | | |
| | κ 51.9 | 27.5 | | 16.0 | | | | | -14.84 | | - 1.40 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 1267 | | | | | | 50 | 2007 | | |
| | $\alpha_1$ | | | | | | | | | | - 2.37 | | |
| | | | | | | | | | | | 17.70 | | |
| | | | 9.0 | 49 52.1 | 50 29.0 | 32.6 | 36.1 | 39.4 | 42.9 | 50 | 3600 | | |
| | | | | 54.8 | | | | | | | -14.53 | | |
| | κ | | | 58.2 | | | | | - 15.93 | | 1.46 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 55.03 | | | | | | 50 | 2007 | | |
| | $\alpha_2$ | | | | | | | | | | - 2.34 | | |
| | | | | | | | | | | | 17.73 | | |
| 53 | 11 | 51 58 | 9.0 | 54 56.0 | 55 26.5 | 30.0 | 33.3 | 36.7 | 40.2 | 55 | 3334 | | |
| 54 | 47.9 | 59.6 | 8.7 | 59.0 | | | | | | | -13.45 | | |
| | κ | | | 2.1 | | | | | - 14.78 | | - 1.34 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 5703 | | | | | | 55 | 15.55 | | |
| | $\alpha_1$ | | | | | | | | | | -2.40 | | |
| | | | | | | | | | | | 16.156 | | |
| 54 | 32.5 | | 9.4 | 54 35.3 | 55 15.1 | 18.3 | 21.7 | 25.2 | 28.5 | 55 | 2176 | | |
| | | | | 38.3 | | | | | | | -14.53 | | |
| | κ | | | 40.8 | | | | | - 15.87 | | - 1.34 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 3813 | | | | | | 55 | 5.89 | | |
| | $\alpha_2$ | | | | | | | | | | -2.37 | | |
| | | | | | | | | | | | 3.52 | | |
| 58 | 20 | 54 17 | 8.6 | 57 48.7 | 58 33.1 | 36.6 | 40.1 | 43.6 | 47.6 | 58 | 4020 | | |
| 57 | 57.2 | 17.2 | 8.9 | 57.8 | | | | | | | -13.45 | | |
| | κ | | | 53.0 | | | | | - 15.89 | | - 1.45 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 51.83 | | | | | | 58 | 25.30 | | |
| | $\alpha_1$ | | | | | | | | | | - 2.38 | | |
| | | | | | | | | | | | 22.923 | | |
| | | | 8.7 | 58 8.6 | 58 34.1 | 37.6 | 41.1 | 44.6 | 48.3 | 58 | 4114 | | |
| | | | | 11.6 | | | | | | | -14.53 | | |
| | κ | | | 13.7 | | | | | - 15.94 | | - 1.45 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 11.80 | | | | | | 58 | 25.16 | | |
| | $\alpha_2$ | | | | | | | | | | - 2.36 | | |
| | | | | | | | | | | | 22.80 | | |

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Aug 9 +3′ ~~44.74~~ 45.96 −12 +3.38 +3.38

10 +3 ~~45.74~~ 45.96 −12 +3.07 +3.07

Runs

| | $T_m - T_J$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | 8′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +10.46 | 4 7.7 | 41″ | 11.8 | 49 4 5.90 | 33 46′ | 42.45 | | 45′ | 53° 37′ ~~1.03~~ | |
| | 1.01953 | 1.01953 | | | | 53 37 | ~~27.19~~ | 28.41 | | 20.19 | +10.88 |
| d | 9.90583 | 9.77319 | | | | | − ~~11.16~~ | −8.22 | | − 3 | 14.26 |
| | 1.04772n | 0.91508n | | | | | | | | − 49 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +11.10 | |
| | | | | | | | | | | + 30 | |
| −1.26 $\delta_1$ | | 43 52.30 | | 37 30.74 | 48 | | | | | −5.60 | |
| +1.41 | | | | | | | | | | 37 24.95 | |
| | +38.45 | 3 44.9 | 41.5 | 6.4 | 3 43.20 | 34 ~~16~~ | 5.15 | | 45 | 53 37 ~~9.83~~ | |
| | 1.58490 | 1.58490 | | | | 53 37 | ~~50.89~~ | 57.11 | | 20.39 | +10.60 |
| d | 9.90529 | 9.77302 | | | | | − ~~41.64~~ | −30.22 | | − 39 | 13.67 |
| | 1.61318n | 1.48028n | | | | | | | | − 45 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +11.14 | |
| | | | | | | | | | | + 30 | |
| −1.26 $\delta_2$ | | 43 52.25 | | 37 29.8 | 49 | | | | | −5.70 | |
| +1.41 | | | | | | | | | | 37 28.36 | |
| | +31.81 | 4 53.0 | 49.6 | 10.2.6 | 4 51.30 | 32 ~~17~~ | 57.05 | | 45 | 54 36 ~~7.17~~ | |
| | 1.50256 | 1.50256 | | | | 54 36 | 41.99 | 43.01 | | 18.60 | +11.62 |
| d | 9.91132 | 9.76271 | | | | | − ~~31.34~~ | −24.41 | | − 26 | 15.00 |
| | 1.53624n | 1.38763n | | | | | | | | − 58 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +11 | |
| | | | | | | | | | | + 35 | |
| −1.20 $\delta_1$ | | 46 56.22 | | 36 29.1 | 50 | | | | | −5.60 | |
| +1.07 | | | | | | | | | | 36 38.10 | |
| | +8.57 | 0 12.9 | 9.4 | 22.3 | 0 11.15 | 3 82 | 37.20 | | 50 | 54 36 ~~13.68~~ | |
| | 0.93298 | 0.93298 | | | | 54 36 | ~~27.91~~ | 23.16 | | 16.58 | +12.46 |
| d | 9.91123 | 9.76289 | | | | | − 9.26 | −6.58 | | − 2 | 15.53 |
| | 0.96657n | 0.81823n | | | | | | | | − 2 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +12.15 | |
| | | | | | | | | | | + 35 | |
| −1.20 $\delta_2$ | | 46 56.22 | | 36 27.4 | | | | | | −5.80 | |
| +1.07 | | | | | | | | | | 36 26.31 | |
| | +22.25 | 0 59 | 2.9 | 8.8 | 0 4.40 | 22 | 43.95 | | 0 | 53 26 ~~5.00~~ | |
| | 1.34733 | 1.34733 | | | | 53 26 | ~~28.69~~ | 29.91 | | 12.34 | +11.10 |
| d | 9.90480 | 9.77507 | | | | | − ~~23.19~~ | −17.57 | | − 13 | 14.48 |
| | 1.37449n | 1.24476n | | | | | | | | − 1 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +10.94 | |
| | | | | | | | | | | + 30 | |
| −1.27 $\delta_1$ | | 50 16.44 | | 26 22.1 | 55 9 | | | | | −5.60 | |
| +0.84 | | | | | | | | | | 26 21.22 | |
| | +40.97 | 4 50.9 | 47.4 | 98.3 | 4 49.15 | ~~26~~ 22 | 59.20 | | 55 | 53 26 ~~1.26~~ | |
| | 1.61247 | 1.61247 | | | | 53 ~~30~~ 26 | ~~44.91~~ | 45.16 | | 12.82 | +11.25 |
| d | 9.90529 | 9.77490 | | | | | − ~~43.66~~ | −32.34 | | − 44 | 13.32 |
| | 1.64010n | 1.50973n | | | | | | | | − 58 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +10.97 | |
| | | | | | | | | | | + 30 | |
| −1.27 $\delta_2$ | | 50 16.46 | | 26 21.2 | 26 | | | | | − 5.80 | |
| +0.84 | | | | | | | | | | 26 20.34 | |
| | +34.31 | 1 31.1 | 29.9 | 61.0 | 1 30.50 | 56 | 17.85 | | 25 | 57 59 ~~26.75~~ | |
| | 1.53542 | 1.53542 | | | | 52 0 | ~~2.59~~ | 3.81 | | 35.81 | + 9.31 |
| d | 9.89653 | 9.78934 | | | | | − ~~35.84~~ | −28.00 | | − 31 | 12.69 |
| | 1.55431n | 1.44712n | | | | | | | | − 18 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +9.50 | |
| | | | | | | | | | | + 30 | |
| −1.36 $\delta_1$ | | 55 14.80 | | 59 43.4 | 29 | | | | | −5.50 | |
| +0.42 | | | | | | | | | | 59 43.00 | |
| | +43.63 | 4 17.9 | 14.8 | 12.7 | 4 16.35 | 63 ~~16~~ | 32.00 | | 25 | 56 ~~32.80~~ | |
| | 1.63979 | 1.63979 | | | | 51 57 | ~~14.74~~ | 17.96 | | 42.32 | + 8.75 |
| d | 9.89624 | 9.78983 | | | | | − ~~45.57~~ | −35.64 | | − 30 | 11.82 |
| | 1.65839n | 1.55198n | | | | | | | | − 57 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +9.46 | |
| | | | | | | | | | | + 30 | |
| −1.36 $\delta_2$ | | 55 2.17 | | 56 48.9 | 9 | | | | | −5.70 | |
| +0.42 | | | | | | | | | | 56 ~~44.44~~ 48.44 | |
| | +46.37 | 4 3.9 | 0.1 | 4.0 | 4 2.00 | 13 ~~16~~ | 46.35 | | 3 | 54 16 ~~39.03~~ | |
| | 1.68458 | 1.68458 | | | | 54 17 | ~~34.09~~ | 32.31 | | ~~34~~90 | +11.07 |
| d | 9.90960 | 9.76607 | | | | | − ~~52.66~~ | −37.41 | | − 61 | 14.45 |
| | 1.71654n | 1.57301n | | | | | | | | − 48 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +11.81 | |
| | | | | | | | | | | + 35 | |
| −1.21 $\delta_1$ | | 58 21.72 | | 17 3.8 | 9 | | | | | −5.70 | |
| +0.15 | | | | | | | | | | 17 ~~36.5~~ 3.65 | |
| | +29.84 | 4 18.9 | 14.5 | 13.4 | 4 16.70 | 13 ~~16~~ | 31.65 | | 5 | 54 16 ~~45.28~~ | |
| | 1.47480 | 1.47480 | | | | 54 17 | ~~17.39~~ | 17.61 | | 54.52 | +11.44 |
| d | 9.90951 | 9.76625 | | | | | − ~~32.14~~ | −23.09 | | − 23 | 14.51 |
| | 1.50664n | 1.36341n | | | | | − ~~23.09~~ | | | − 57 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +11.83 | |
| | | | | | | | | | | + 35 | |
| −1.21 $\delta_2$ | | 58 21.59 | | 17 3.3 | | | | | | − 5.90 | |
| +0.15 | | | | | | | | | | 17 31.3 | |

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1876phae.proj.1600R

476 477 90

Date$_1$ = 1876 Aug. 9 Observer / Recorder

Date$_2$ = Aug. 10. 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 39 3 | 51° 9 | 9.0 | 17 57 | 59 18.6 | 22.7 | 25.9 | 29.4 | 32.8 | 59 | 2608 | | |
| | 38 39.8 | 10.7 | 8.9 | 15.6 | | | | | 14 | | −13.45 | | |
| | κ | | | 18.4 | | | | | −15.74 | | − 1 30 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 21.6 | | | | | | 59 | 11.33 | | |
| | | | | 18.53 | | | | | | | −2.42 | | |
| | $\alpha_1$ | | | | | | | | | | 8.91 | 2 | |
| | | | 9.0 | 57 42 | 59.20.4 | 23.8 | 27.0 | 30.4 | 33.6 | 59 | 27.04 | | |
| | | | | 65 | | | | | | | −14.54 | | |
| | κ | | | 9.8 | | | | | − 15.84 | | − 1 30 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 6.83 | | | | | | 59 | 11.20 | | |
| | | | | | | | | | | | −2.39 | | |
| | $\alpha_2$ | | | | | | | | | | 8.81 | | |
| 18 | 3 6 | 53 58 | 9.0 | 18 2 59.3 | 3 20.0 | 23.5 | 27.0 | 30.4 | 33.8 | 3 | 2694 | | |
| | 2 48.4 | 57.6 | 8.8 | 2.0 | | | | | | | −13.45 6 | | |
| | κ | | | 5.8 | | | | | − 14.94 10 | | − 1 45 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 2.37 | | | | | | 3 | 12.003 | | |
| | | | | | | | | | | | −2.41 9 | | |
| | $\alpha_1$ | | | | | | | | | | 9.62 | 9.58 | 9.62 ✓ |
| | | | 8.8 | 2 51.7 | 3 20.9 | 24.4 | 28.0 | 31.4 | 35.0 | 3 | 2794 | | |
| | | | | 54.5 | | | | | | | −14.54 | | |
| | κ | | | 57.3 | | | | | − 15.99 | | − 1 45 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 54.50 | | | | | | 3 | 11.95 | | |
| | | | | | | | | | | | −2.38 | | |
| | $\alpha_2$ | | | | | | | | | | 9.57 | | |
| 7 | 53 | 51 38 | 9.2 | 7 35.4 | 8 3.0 | 6.3 | 9.3 | 12.8 | 16.2 | 8 | 9.52 | | |
| 7 | 20.8 15.2 | 37.8 | 9.2 | 27.9 | | | | | | | −13.45 6 | | |
| | κ | | | 40.6 | | | | | − 14.27 | | − 1 32 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 37.97 | | | | | | 7 | 54.75 | | |
| | | | | | | | | | | | −2.44 | | |
| | $\alpha_1$ | | | | | | | | | | 52.31 | 1 | |
| | | | 9.1 | 7 29.4 | 8 7.3 | 10.7 | 13.9 | 17.1 | | | | | |
| | | | | 8.2.0 | 4.0 | 7.3 | 10.7 | 13.9 | 17.1 | 8 | 10.66 | | |
| | κ | | | 33.3 | | | | | − 15.86 | | −14.54 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 8.23.7 | | | | | | | − 1 32 | | |
| | | | | | | | | | | 7 | 54.74 | | |
| | | | | | | | | | | | −2.42 | | |
| | $\alpha_2$ | | | | | | | | | | 52.32 | | |
| 10 | 6 | 54 30 | 9.3 | Ch. f. | | | | | | | | | |
| 9. | 42.3 | 30.1p | 9.4 | | | | | | | | | | |
| | κ | | | | | | | | | | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_1$ | | | | | | | | | | | | |
| | | | 9.5 | 9 40.4 | 10 11.1 | 14.6 | 18.5 | 21.9 | 25.4 | 10 | 1830 | | |
| | | | | 42.5 | | | | | | | −14.54 | | |
| | κ | | | 44.8 | | | | | − 16.01 | | − 1 47 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 42.57 | | | | | | 10 | 2.29 | | |
| | | | | | | | | | | | −2.40 | | |
| | $\alpha_2$ | | | | | | | | | 9 | 59.89 | | |
| 12 | 34 | 54 31 | 8.4 | 13 0.3 | 13 6.9 | 10.4 | 14.0 | 17.5 | 21.0 | 13 | 13.96 | | |
| 12 | 31.0 | 30.9 | 8.8 | 3.4 | | | | | | | −13.45 6 | | |
| | κ | | | 6.1 | | | | | − 14.92 | | − 1 47 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 3.27 | | | | | | 12 | 59.04 | | |
| | | | | | | | | | | | −2.43 | | |
| | $\alpha_1$ | | | | | | | | | | 56.61 | 1 | |
| | | | 8.5 | 12 26.4 | 13 8.1 | 11.5 | 15.0 | 18.5 | 22.1 | 13 | 1504 | | |
| | | | | 28.1 | | | | | | | −14.54 | | |
| | κ | | | 30.9 | | | | | − 16.01 | | − 1 47 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 27.80 | | | | | | 12 | 59.03 | | |
| | | | | | | | | | | | −2.41 | | |
| | $\alpha_2$ | | | | | | | | | | 56.62 | | |
| Aug. 9 | | | | Single Observations | | | | | | | | | |
| 17 | 38 6 | 53 23 | 8.8 | 17 38 | 10.7 37 | 57.8 | 58.2 | 1.7 | 5.1 | 8.6 | 1.68 | | |
| 37 | 48.9 18.1 | 24.8 | 9.0 | | 12.9 | | | | | − 14.85 | −13.44 | | |
| | | | | | 15.0 | | | | | | −1.42 | | |
| | | | | | | | | | | 38 | 56.82 | −2.33 | |
| | | | | | | | | | | | | 54.49 | 4450 |

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Runs

+3.38

+3.07

| | $T_m - T_s$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ' |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +7.55 | 1 22.9 | 21.5 | 4.4 | 16, 1 22.20 | 63' | 26.15 | | 15 | 51° 10 | |
| | 0.87795 | 0.87795 | | | | 51 10 | 10.89 | 12.11 | | 5.83 | +8.75 |
| d | 9.89152 | 9.79731 | | | | − | 7.49 | − 6.28 | | − 1 | 12.13 |
| | 0.89183n | 0.79762n | | | | | | | | − 16 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 867 | |
| | | | | | | | | | | + 25 | |
| −1.41 | | | | | | | | | | −5.50 | |
| +0.08 $\delta_1$ | | 59 7.51 | | 10 12.5 | | | | | | 10 1.246 | |
| | +20.21 | 1 12.1 | 10.9 | 3.0 | 16 1 11.50 | 62' | 36.80 | | 15 | 51 10 | |
| | 1.30557 | 1.30557 | | | | 51 10 | 22.37 | 22.76 | | 5.96 | +8.77 |
| d | 9.89152 | 9.79731 | | | | − | 20.67 | −16.80 | | − 11 | 11.78 |
| | 1.31945n | 1.22524n | | | | | | | | − 14 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 871 | |
| | | | | | | | | | | + 25 | |
| −1.41 | | | | | | | | | | −5.70 | |
| +0.08 $\delta_2$ | | 59 7.40 | | 10 12.1 | | | | | | 10 1.204 | |
| | +24.57 | 4 54.2 | 50.9 | 5.1 | 29 4 52.55 | 52 | 55.80 | | 25 | 53 56 | |
| | 1.39041 | 1.39041 | | | | 53 56 | 40.54 | 41.76 | | 22.60 | +10.98 |
| d | 9.90768 | 9.76974 | | | | − | 26.33 | −19.16 | | − 16 | 14.36 |
| | 1.42045n | 1.28251n | | | | | | | | − 58 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +11.42 | |
| | | | | | | | | | | + 30 | |
| −1.24 | | | | | | | | | | −5.70 | |
| −0.28 $\delta_1$ | | 3 8.38 | | 56 31.0 | | | | | | 56 31.26 | |
| | +33.44 | 4 46.1 | 41.9 | 8.0 | 29 4 44.00 | 53 | 41.35 | | 25 | 53 56 | |
| | 1.52427 | 1.52427 | | | | 53 56 | 50.09 | 50.31 | | 23.62 | +11.11 |
| d | 9.90768 | 9.76974 | | | | − | 35.61 | −26.69 | | − 29 | 10.91 13.98 |
| | 1.55431n | 1.42637n | | | | | | | | − 57 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +11.47 | |
| | | | | | | | | | | + 30 | |
| −1.24 | | | | | | | | | | −5.90 | |
| −0.28 $\delta_2$ | | 3 8.33 | | 56 31.4 | | | | | | 56 31.70 | |
| | +30.55 | 3 23.4 | 20.9 | 4.3 | 43 3 22.15 | 3 19 | 26.20 | | 40 | 51 42 | |
| | 1.49900 | 1.49900 | | | | 51 43 | 10.74 | 12.16 | | 46.25 | +8.83 |
| d | 9.89485 | 9.79208 | | | | − | 32.83 | −25.91 | | − 27 | 12.21 |
| | 1.51621n | 1.41344n | | | | | | | | − 40 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 920 | |
| | | | | | | | | | | + 30 | |
| −1.38 | | | | | | | | | | −5.60 | |
| −0.70 $\delta_1$ | | 7 50.93 | | 42 52.2 | | | | | | 42 5.286 | |
| | +38.23 | 3 16.4 | 13.1 | 9.5 | 43 3 14.75 | 3 19 | 33.60 | | 40 | 51 42 | |
| | 1.58240 | 1.58240 | | | | 51 43 | 19.34 | 19.56 | | 48.17 | +8.72 |
| d | 9.89485 | 9.79208 | | | | − | 39.78 | −31.39 | | − 40 | 11.79 |
| | 1.59961n | 1.49684n | | | | | | | | − 39 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 921 | |
| | | | | | | | | | | + 30 | |
| −1.38 | | | | | | | | | | −5.80 | |
| −0.70 $\delta_2$ | | 7 50.94 | | 42 53.5 | | | | | | 42 5.416 | |
| | ~~+35.73~~ | 3 10.1 | 7.1 | 17.2 | 53 3 8.60 | 29 | 39.75 | | 50 | 56 15.26 | |
| | | | | | | 54 33 | 24.49 | 25.71 | | | |
| d | | | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | +35.73 | 3 15.0 | 10.5 | 5.5 | 53 3 12.75 | 29 | 35.60 | | 50 | 54 32 | |
| | 1.55803 | 1.55303 | | | | 54 33 | 21.34 | 21.56 | | 54.09 | +11.72 |
| d | 9.91096 | 9.76342 | | | | − | 36.58 | −27.47 | | − 33 | 14.79 |
| | 1.58635n | 1.43881n | | | | | | | | − 38 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +12.08 | |
| | | | | | | | | | | + 35 | |
| $\delta_2$ | | | | | | | | | | −6.10 | |
| | | | | | | | | | | 33 2.68 | 2.78 |
| | +10.69 | 4 58.2 | 54.1 | 12.3 | 54 4 56.15 | 27 | 52.20 | | 50 | 54 31 | |
| | 1.02898 | 1.02898 | | | | 54 31 | 36.04 | 38.16 | | 29.94 | +11.75 |
| d | 9.91087 | 9.76360 | | | | − | 11.54 | − 8.22 | | − 3 | 15.13 |
| | 1.06221n | 0.91494n | | | | | | | | − 59 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +12.02 | |
| | | | | | | | | | | + 35 | |
| −1.20 | | | | | | | | | | −5.90 | |
| −1.12 $\delta_1$ | | 12 55.41 | | 31 38.0 | | | | | | 31 3.917 | |
| | +47.24 | 4 27.5 | 23.9 | 11.4 | 54 4 25.70 | 28 | 22.65 | | 50 | 54 31 | 44.54 |
| | 1.67431 | 1.67431 | | | | 54 32 | 5.36 | 8.61 | | 32.28 | +11.29 − 4 |
| d | 9.91087 | 9.76360 | | | | − | 51.00 | −34.33 | | − 58 | 14.36 − 36 |
| | 1.70754n | 1.50027n | | | | | | | | − 53 | +1091 |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +12.05 | + 30 |
| −1.20 | | | | | | | | | | + 35 | −5.50 |
| −1.12 $\delta_2$ | | 12 55.42 | | 31 39.4 | | | | | | −6.10 | 23 3.861 53.23 |
| | | | | 23 52.1 | 2 | | | | | 31 4.054 | 3.197 |
| −1.28 1.08600 | −12.19 | 3 08 | 58.0 | 118.8 | 2 59.40 | 19 | 48.95 | | 0 | 53 23 | |
| +1.95 1.11298n | | 1.08600 | | 3743.70 | 2355.2 | 53 23 | 33.64 | 34.91 | | 20.72 | |
| | | 9.45841 | | | | | +9.63 | | | 23.26 | |

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478 479 92

Date$_1$ = 1876 Aug. 12 Observer
$\mathcal{U}$ = -1.09 Recorder

Date$_2$ = 1876 Aug. 13 Observer
$\mathcal{U}$ = -1.07 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | h m s | ° ′ ″ | | m s | m s | | | | | m s | | | |
| | 28 6 | 53 23 | 8.8 | 17 37 52.0 | 37 ~~45~~ | ~~3.0~~ | ~~8.4~~ | ~~12.0~~ | | | | Add +.005 to (ΔT+m) Aug 12. It has been added to the sum of the constants used to find R.A | |
| | 37 ~~43.9~~ | 24.8 | 9.0 | 53.5 | 5.9 | 1.5 | 5.0 | 8.4 | 12.0 | +.005 | 38 4.96 | | |
| | κ 18.1 | 2 | | 57.1 | | | | | | | -16.76 5 | | |
| | | | | 54.53 | | | | | - 18.24 | | - 1.47 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | | | | | | | | 37 46.73 | | |
| | | | | | | | | | | | - 2.24 | | |
| | $\alpha_1$ | | | | | | | | | | 44.58 1 | | |
| | | | 8.4 | 37 20.5 | 37 59.3 | 2.7 | 6.1 | 9.7 | 13.1 | | 38 6.16 | | |
| | | | | 23.0 | | | | | | | -17.98 | | |
| | κ | | | 26.0 | | | | | -19.43 | | - 1.45 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 23.17 | | | | | | | 37 46.73 | | |
| | | | | | | | | | | | - 2.22 | | |
| | $\alpha_2$ | 16 | | | | | | | | | 44.51 | | |
| | 41 24 | 52 ~~14~~ | 8.8 | 41 31.3 | 41 54.0 | 57.3 | 0.7 | 4.0 | 7.4 | | 42 0.68 | | |
| | 41 114 | 18.5 | 9.3 | 35.6 | | | | | | | -16.76 5 | | |
| | κ | | | 39.6 | | | | | - 18.15 | | - 1.40 | | |
| + | ((δ) — D) $\frac{\kappa'}{100}$ | | | 35.50 | | | | | | | 41 42.52 | | |
| | | | | | | | | | | | - 2.27 | | |
| | $\alpha_1$ | | | | | | | | | | 40.26 | | |
| | | | 9.2 | 41 33.1 | 41 55.1 | 58.6 | 2.0 | 5.2 | 8.7 | | 42 1.92 | | |
| | | | | 35.8 | | | | | | | -17.98 | | |
| | κ | | | 39.6 | | | | | - 19.35 | | - 1.37 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 36.17 | | | | | | | 41 42.51 | | |
| | | | | | | | | | | | - 2.25 | | |
| | $\alpha_2$ | | | | | | | | | | 40.32 | ✓ | |
| | 47 48 | 54 46 | 8.6 | 47 32.0 | 48 3.7 | 7.3 | 11.1 | 14.5 | 18.1 | | 48 10.94 | | |
| | 47 25.0 | 46.8 | 8.8 | 34.8 | | | | | | | -16.776 | | |
| | κ | | | 38.2 | | | | | - 18.28 | | - 1.53 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 35.30 | | | | | | | 47 52.62 | | |
| | | | | | | | | | | | - 2.26 | | |
| | $\alpha_1$ | | | | | | | | | | ~~50.39~~ 50.36 | ✓ | |
| | | | 8.6 | 47 26.8 | 48 5.0 | 8.7 | 12.2 | 15.8 | 19.4 | | 48 12.22 | | |
| | | | | 29.6 | | | | | | | -17.98 | | |
| | κ | | | 32.0 | | | | | - 19.49 | | - 1.51 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 29.47 | | | | | | | 47 52.83 | ✓ | |
| | | | | | | | | | | | - 2.24 | | |
| | $\alpha_2$ | | | | | | | | | | 50.49 | | |
| | 50 37 | 52 23 | 8.4 | 50 31.4 | 50 53.0 | 58.4 | 1.8 | 5.3 | 8.6 | | 51 1.82 | | |
| | 50 13.9 | 24.5 | 8.0 | 34.0 | | | | | | | -16.78 | | |
| | κ | | | 37.1 | | | | | - 18.19 | | - 1.42 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 34.17 | | | | | | | 50 43.62 | 3 | |
| | | | | | | | | | | | - 2.30 | | |
| | $\alpha_1$ | | | | | | | | | | 41.33 | | |
| | | | 8.7 | 50 16.0 | 50 ~~42.6~~ | ~~48.7~~ | ~~4.5~~ | | | | | | |
| | | | | 19.1 | 56.3 | 59.8 | 3.1 | 6.5 | 9.9 | | 57 3.12 | | |
| + | κ | | | 21.3 | | | | | - 19.38 | | -17.98 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 18.80 | | | | | | | - 1.40 | | |
| | | | | | | | | | | | 50 43.74 | | |
| | $\alpha_2$ | | | | | | | | | | - 2.28 | | |
| | | | | | | | | | | | 41.46 | | |
| 18 | 2 50 | 52 50 | 8.9 | 18 2 40.0 | 3 6.9 | 10.3 | 13.8 | 17.3 | 20.5 | | 3 13.76 | | |
| | 2 27.2 | 49.7 | 8.9 | 42.6 | | | | | | | -16.80 ~~.78~~ | | |
| | κ | | | 45.1 | | | | | - 18.19 | | - 1.42 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 42.57 | | | | | | | 2 45.54 | | |
| | | | | | | | | | | | - 2.34 | | |
| | $\alpha_1$ | | | | | | | | | | 53.28 3 | | |
| | | | 8.9 | 2 37.6 | 3 8.1 | 11.5 | 14.9 | 18.3 | 21.7 | | 3 14.90 | | |
| | | | | 40.7 | | | | | | | -17.99 | | |
| | κ | | | 43.2 | | | | | - 19.39 | | - 1.40 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 40.50 | | | | | | | 2 45.51 | | |
| | | | | | | | | | | | - 2.32 | | |
| | $\alpha_2$ | | | | | | | | | | 53.19 | ✓ | |

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Aug 12 +3′ ~~45.60~~ 46.38 −.13 +3.43 +3.43

Runs 13 +3 ~~46.00~~ 46.00 −.13 +3.22 +3.22

| | $T_m - T_S$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +10.43 | 2′ 42.1 | 39.2 | 81.3 | 2′ 40.65 | 20′ | 7.70 | | 0′ | 53° 23′ ~~42.40~~ | |
| | 1.01828 | 1.01828 | | | | 53 23 | ~~3.60~~ | 5408 | | 45.84 | +10.78 |
| d | 9.90462 | 9.77541 | | | | − | 11.10 | −8.24 | | − 3 | 14.21 |
| | 1.04526 | 0.91605 | | | | − | | | | − 35 | |
| $((\delta) - D)\ \frac{d'}{100}$ | | | | | | | | | | +1086 | |
| | | | | | | | | | | + 30 | |
| −1.28 $\delta_1$ | | 37 43.23 | | 23 56.1 | | | | | | −5.90 | |
| +1.95 | | | | | | | | | | 23 5415 | |
| | 42 | | | | | | | | | | |
| | ~~+17.99~~ | 2 15.6 | 13.1 | 8.7 | 2 14.35 | 20 | 34.00 | | 0 | 53 23 ~~34.05~~ | |
| | ~~+23.70~~ | 1.63337 | | | | 53 24 | ~~19.80~~ | 2800 | | 46.03 | +10.38 |
| d | 1.63337 | 9.77541 | | | | − | ~~45.45~~ | −33.97 | | − 48 | 13.60 |
| | 9.90462 | 1.53014 | | | | | | | | − 29 | |
| $((\delta) - D)\ \frac{d'}{100}$ | 1.66035 | | | | | | | | | +1085 | |
| | | | | | | | | | | + 30 | |
| −1.28 $\delta_2$ | | 37 43.23 | | 23 55.5 | | | | | | −6.10 | |
| +1.95 | | | | | 8 | | | | | 23 5353 | |
| | +25.18 | 3 26.9 | 24.6 | 11.5 | 3 25.75 | 18 | 22.60 | | 5 | 52 17 ~~41.99~~ | |
| | 1.40106 | 1.40106 | | | | 52 18 | ~~5.40~~ | 8.98 | | 48.57 | +9.45 |
| d | 9.89830 | 9.78642 | | | | − | ~~26.41~~ | −20.41 | | − 17 | 12.88 |
| | 1.42172 | 1.30954 | | | | | | | | − 44 | |
| $((\delta) - D)\ \frac{d'}{100}$ | | | | | | | | | | +9.76 | |
| | | | | | | | | | | + 30 | |
| −1.35 $\delta_1$ | | 41 38.91 | | 17 57.2 | | | | | | −5.90 | |
| +1.60 | | | | | 8 | | | | | 17 5553 | |
| | +25.75 | 3 25.1 | 22.6 | 7.7 | 3 23.85 | 18 | 24.50 | | 5 | 52 17 ~~43.30~~ | |
| | 1.41078 | 1.41078 | | | | 52 18 | ~~10.30~~ | 10.50 | | 49.63 | +9.43 |
| d | 9.89830 | 9.78642 | | | | − | ~~27.00~~ | −20.87 | | − 18 | 12.65 |
| | 1.43144 | 1.31956 | | | | | | | | − 44 | |
| $((\delta) - D)\ \frac{d'}{100}$ | | | | | | | | | | + 9.75 | |
| | | | | | | | | | | + 30 | |
| −1.35 $\delta_2$ | | 41 38.97 | | 17 57.8 | | | | | | −6.10 | |
| +1.60 | | | | | 40 | | | | | 17 5618 | |
| | ~~+34.94~~ | 0 40.4 | 38.1 | 78.5 | 0 39.25 | ~~42~~ 42 | 9.10 | | 40 | 54 45 ~~45.99~~ | |
| | ~~+38.30~~ | 1.55558 | | | | 54 45 | ~~54.90~~ | 55.48 | | 28.01 | +12.17 |
| d | 1.55558 | 9.76111 | | | | − | ~~36.91~~ | −27.47 | | − 34 | 15.60 |
| | 9.91212 | 1.43885 | | | | | | | | − 8 | |
| $((\delta) - D)\ \frac{d'}{100}$ | 1.59006 | | | | | | | | | +12.24 | |
| | | | | | | | | | | + 35 | |
| −1.18 $\delta_1$ | | 47 49.22 | | 45 38.~~58~~ 6 | | | | | | −6.10 | |
| +1.07 | +42.75 | | | | 40 | | | | | 45 3751 | |
| | ~~+17.75~~ | 0 33.9 | 32.1 | 6.0 | 0 33.00 | 42 | 15.35 | | 40 | 54 45 ~~14.57~~ | |
| | ~~+23.70~~ | 1.63094 | | | | 54 46 | ~~7.15~~ | 1.35 | | ~~40.72~~ | +12.00 |
| d | 1.63094 | 9.76111 | | | | − | ~~46.25~~ | −32.69 | | 28.66 | 15.22 |
| | 9.91212 | 1.51417 | | | | | | | | − 47 | |
| $((\delta) - D)\ \frac{d'}{100}$ | 1.66542 | | | | | | | | | − 8 | |
| | | | | | | | | | | +12.20 | |
| −1.18 $\delta_2$ | | 47 49.31 | | 45 38.6 | | | | | | + 35 | |
| +1.07 | +27.65 | | | | | | | | | −6.30 | |
| | | | | | | | | | | 45 3758 | |
| | ~~+32.35~~ | 1 46.4 | 43.8 | 10.2 | 1 45.10 | 21 | 3.25 | | 0 | 52 24 ~~20.01~~ | |
| | ~~+50.98~~ | 1.44170 | | | | 52 24 | ~~49.05~~ | 49.63 | | 27.28 | +9.74 |
| d | 1.44170 | 9.78527 | | | | − | ~~29.04~~ | −22.35 | | − 20 | 13.17 |
| | 9.89898 | 1.34698 | | | | | | | | − 22 | |
| $((\delta) - D)\ \frac{d'}{100}$ | 1.46304 | | | | | | | | | + 9.86 | |
| | | | | | | | | | | + 30 | |
| −1.34 $\delta_1$ | | 50 39.99 | | 24 35.2 | | | | | | −6.10 | |
| +0.82 | +44.32 | | | | | | | | | 24 3435 | |
| | ~~+15.68~~ | 1 32.0 | 30.9 | 2.9 | 1 31.45 | 21 | 16.90 | | 0 | 52 24 16.15 | |
| | ~~+19.35~~ | 1.64660 | | | | 52 25 | ~~2.40~~ | 2.90 | | 27.07 | +9.43 |
| d | 1.64660 | 9.78527 | | | | − | ~~46.55~~ | −35.83 | | − 52 | 12.65 |
| | 9.89898 | 1.53223 | | | | | | | | − 20 | |
| $((\delta) - D)\ \frac{d'}{100}$ | 1.66794 | | | | | | | | | + 9.85 | |
| | | | | | | | | | | + 30 | |
| −1.34 $\delta_2$ | | 50 40.12 | | 24 34.2 | | | | | | −6.30 | |
| +0.82 | +31.19 | | | | 36 | | | | | 24 3342 | |
| | ~~+26.61~~ | 1 11.9 | 9.5 | 21.41 | 1 10.70 | 46 | 37.65 | | 35 | 52 49 ~~50.51~~ | |
| | ~~+45.54~~ | 1.49402 | | | | 52 50 | ~~23.45~~ | 24.03 | | 59.05 | +10.17 |
| d | 1.49402 | 9.78113 | | | | − | ~~32.44~~ | −24.98 | | − 26 | 13.60 |
| | 9.90139 | 1.39751 | | | | | | | | − 16 | |
| $((\delta) - D)\ \frac{d'}{100}$ | 1.51777 | | | | | | | | | +1029 | |
| | | | | | | | | | | + 30 | |
| −1.31 $\delta_1$ | | 2 51.92 | | 50 6.2 | | | | | | −6.20 | |
| −0.25 | +34.40 | | | | 36 | | | | | 50 645 | |
| | ~~+25.60~~ | 1 8.8 | 5.9 | 14.7 | 1 7.35 | 46 | 41.00 | | 35 | 52 49 ~~50.47~~ | |
| | ~~+40.24~~ | 1.53656 | | | | 52 50 | ~~26.40~~ | 27.00 | | 59.46 | +10.11 |
| d | 1.53656 | 9.78113 | | | | − | ~~36.39~~ | −27.55 | | − 32 | 13.33 |
| | 9.90139 | 1.44005 | | | | | | | | − 14 | |
| $((\delta) - D)\ \frac{d'}{100}$ | 1.56031 | | | | | | | | | +10.27 | |
| | | | | | | | | | | + 30 | |
| −1.31 | | | | | | | | | | −6.40 | |
| −0.25 $\delta_2$ | | 2 51.88 | | 50 6.1 | | | | | | 50 1638 | |

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1876phae.proj.1600R

478 479 94

Date$_1$ = 1876 Aug. 12 Observer / Recorder

Date$_2$ = Aug. 13 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 11 / 7 42.9 κ | 53 29 / 53 28.2 | 8.2 | 18 7 38.6 41.8 44.7 41.70 | 8 21.6 | 25.0 | 28.5 | 31.9 | 35.4 − 18.26 | 8 28.48 −16.84.79 − 147 | 8 10.20 −2.35 7.87 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ $a_1$ | | | | | | | | | | | | |
| κ | | 8.8 | 7 58.6 2.0 46 1.73 | 8 22.7 | 26.3 | 29.7 | 33.0 | 36.4 − 19.43 | 8 29.62 −17.99 − 144 | 8 10.19 −2.33 7.86 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ $a_2$ | | | | | | | | | | | | |
| 9 17 / 8 54.2 κ | 53 29 / 28.7 | 9.1 / 8.8 | 8 57.0 59.2 1.7 59.30 | 9 36.6 | 39.9 | 43.4 | 46.9 | 50.4 − 18.25 | 9 43.44 −16.84.79 − 147 | 9 25.16 −2.35 22.814 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ $a_1$ | | | | | | | | | | | | |
| κ | | 9.1 | 9 18.0 21.6 24.2 21.27 | 9 37.6 | 41.3 | 44.6 | 48.0 | 51.5 − 19.43 | 9 44.60 −17.99 − 144 | 9 25.17 −2.33 22.84 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ $a_2$ | | | | | | | | | | | | |
| 11 1 / 10 38.2 κ | 52 29 / 28.9 | 8.6 / 8.3 | 10 41.2 43.8 47.1 44.03 | 11 18.7 | 22.1 | 25.6 | 28.9 | 32.4 − 18.22 | 11 25.54 −16.81.0 − 142 | 11 7.31 −2.37 4.95 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ $a_1$ | | | | | | | | | | | | |
| κ | | 8.8 | 10 49.7 51.8 53.2 52.23 | 11 19.9 | 23.3 | 26.7 | 30.3 | 33.5 − 19.39 | 11 26.74 −17.99 − 140 | 11 7.35 −2.35 5.00 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ $a_2$ | | | | | | | | | | | | |
| 18 7 / 17 44.3 κ | 53 26 / 25.7 | 9.0 / 8.9 | 17 56.3 0.8 3.3 0.13 | 18 25.7 | 28.5 | 31.9 | 35.4 | 39.0 − 18.27 | 18 81.96 −16.82.1 − 147 | 18 13.67 −2.38 11.32.1 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ $a_1$ | | | | | | | | | | | | |
| κ | | 9.0 | 17 45.6 48.7 51.4 48.57 | 18 26.1 | 29.7 | 33.3 | 36.8 | 40.1 − 19.43 | 18 33.20 −17.99 − 144 | 18 13.77 −2.36 11.41 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ $a_2$ | | | | | | | | | | | | |
| 5 κ | | | Single Observations | | | | | | | | | |
| ((δ) − D) $\frac{\kappa'}{100}$ $a_1$ | | | | | | | | | | | | |
| Aug. 12 17 42 15 / 41. 57.6 κ | 52 0 / 0.3 | 8.7 / 8.3 | 17 42 35.5 38.2 41.3 38.33 | 42 34.3 | 37.5 | 41.0 | 44.2 | 47.5 − 18.15 | 42 40.90 −16.77.5 − 140 | 42 22.73 −2.28 20.47 | | |
| ((δ) − D) $\frac{\kappa'}{100}$ $a_2$ | | | | | | | | | | | | |
| Aug. 13 17 6 7 / 5 6 / 54.2 | 50 34 / 34.4 | 9.4 / 9.2 | 17 56 20.2 23.7 2.6 23.50 | 56 54.0 | 57.1 | 0.6 | 3.7 | 7.0 − 19.28 | 57 0.48 −17.99 | 56 41.26 − 2.32 38.88 / 57 41.38 2.32 | | |

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Runs

+3.43

+3.22

| | $T_m - T_\odot$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +46.78 | 2 50.1 | 47.5 | 97.6 | 57, 2 48.80 | 24 49′ | 59.55 | | 55′ | 53° 27′ 55.52 | |
| | 1.67006 | 1.67006 | | | | 53 28 | 45.35 | 45.93 | | 28 9.03 | +1032 |
| d | 9.90509 | 9.77456 | | | | | 49.83 | −36.90 | | − 57 | 13.75 |
| | 1.69751n | 1.56698n | | | | | | | | − 36 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +1095 | |
| | | | | | | | | | | + 30 | |
| −1.27 | | | | | | | | | | −6.40 | |
| −0.71 $\delta_1$ | | 8 6.60 | | 28 15.7 | | | | | | 28 1638 | |
| | | | | | 58 | 24 | | | | | |
| | +27.89 | 3 5.6 | 3.1 | 8.7 | 3 4.35 | 19 | 44.00 | | 55 | 53 28 20.10 | |
| | 1.44545 | 1.44545 | | | | 53 28 | 29.80 | 30.00 | | 7.99 | +1066 |
| d | 9.90499 | 9.77473 | | | | | 29.40 | −22.01 | | − 20 | 13.88 |
| | 1.47280n | 1.34254n | | | | | | | | − 40 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +1096 | |
| | | | | | | | | | | + 30 | |
| −1.27 | | | | | | | | | | −6.50 | |
| −0.71 $\delta_2$ | | 8 6.59 | | 28 14.7 | | | | | | 28 1537 | |
| | | | | | 56 | 26 | | | | | |
| | +44.14 | 1 23.8 | 21.9 | 5.7 | 1 22.85 | 21 | 25.50 | | 55 | 53 29 24.27 | |
| | 1.64483 | 1.64483 | | | | 53 30 | 4.30 | 19.88 | | 3.78 | +1058 |
| d | 9.90518 | 9.77439 | | | | | 47.03 | −34.80 | | − 51 | 14.01 |
| | 1.67234n | 1.54158n | | | | | | | | − 20 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +10.99 | |
| | | | | | | | | | | + 30 | |
| −1.27 | | | | | | | | | | −6.40 | |
| −0.82 $\delta_1$ | | 9 21.57 | | 29 43.9 | | | | | | 29 4469 | |
| | | | | | 56 | | | | | | |
| | +23.33 | 1 41.1 | 38.9 | 80.0 | 1 40.00 | 26 | 8.35 | | 55 | 53 29 29.29 | |
| | 1.36791 | 1.36791 | | | | 53 29 | 54.15 | 54.35 | | 35.96 | +1040 |
| d | 9.90518 | 9.77439 | | | | | 24.66 | −18.39 | | − 14 | 14.12 |
| | 1.39545n | 1.26466n | | | | | | | | − 22 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +1096 | |
| | | | | | | | | | | + 30 | |
| −1.27 | | | | | | | | | | −6.50 | |
| −0.82 $\delta_2$ | | 9 21.57 | | 29 42.8 | | | | | | 29 4358 | |
| | | | | | 57 | 25 | | | | | |
| | +41.51 | 2 12.2 | 9.9 | 22.1 | 2 11.05 | 20 | 37.30 | | 55 | 52 28 39.46 | |
| | 1.61815 | 1.61815 | | | | 52 29 | 23.10 | 23.68 | | 50.17 | +952 |
| d | 9.89937 | 9.78461 | | | | | 43.64 | −33.51 | | − 45 | 12.95 |
| | 1.63988n | 1.52512n | | | | | | | | − 29 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 9.96 | |
| | | | | | | | | | | + 30 | |
| −1.33 | | | | | | | | | | −6.30 | |
| −0.96 $\delta_1$ | | 11 3.62 | | 28 55.9 | | | | | | 28 5682 | |
| | | | | | 57 | 25 | | | | | |
| | +34.51 | 2 17.7 | 14.4 | 12.1 | 2 16.05 | 20 | 32.30 | | 55 | 52 28 41.82 | |
| | 1.53794 | 1.53794 | | | | 52 29 | 18.10 | 18.30 | | 50.44 | +965 |
| d | 9.89937 | 9.78461 | | | | | 36.25 | −27.86 | | − 32 | 12.87 |
| | 1.55967n | 1.44491n | | | | | | | | − 30 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 9.97 | |
| | | | | | | | | | | + 30 | |
| −1.33 | | | | | | | | | | −6.50 | |
| −0.96 $\delta_2$ | | 11 3.67 | | 28 55.9 | | | | | | 28 5681 | |
| | | | | | 59 | 22 | | | | | |
| | +31.83 | 4 57.7 | 55.3 | 13.0 | 4 56.50 | 17 | 51.85 | | 55 | 53 26 3.76 | |
| | 1.50284 | 1.50284 | | | | 53 26 | 34.65 | 38.23 | | 13.11 | +1031 |
| d | 9.90490 | 9.77490 | | | | | 33.89 | −25.12 | | − 26 | 13.74 |
| | 1.53010n | 1.40010n | | | | | | | | − 64 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +10.91 | |
| −1.28 | | | | | | | | | | + 30 | |
| −1.59 $\delta_1$ | | 18 10.03 | | 26 18.8 | | | | | | −6.50 | |
| | | | | | 59 | 23 | | | | 26 2035 | |
| | +44.63 | 4 47.1 | 43.1 | 10.2 | 4 45.70 | 15 | 3.25 | | 55 | 53 26 1.53 | |
| | 1.64963 | 1.64963 | | | | 53 26 | 46.05 | 49.25 | | 14.02 | +1009 |
| d | 9.90490 | 9.77490 | | | | | 47.52 | −35.23 | | − 52 | 13.31 |
| | 1.67689n | 1.54689n | | | | | | | | − 61 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +1092 | |
| | | | | | | | | | | + 30 | |
| −1.28 | | | | | | | | | | −6.60 | |
| −1.59 $\delta_2$ | | 18 10.13 | | 26 19.1 | | | | | | 26 2073 | |
| | | | | | | | | | | | |
| d | | | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | | | | | 26 | 55 | | | | | |
| | + 2.57 | 1 51.6 | 49.9 | 101.5 | 1 50.75 | 20 | 57.60 | | 25 | 51 59 16.56 | 50 38 |
| | 0.40993 | 0.40993 | | | | 51 59 | 43.40 | −43.98 | | 41.88 | +953 |
| d | 9.89653 | 9.78934 | | | | | 26.84 | − 2.10 | | 0 | 12.96 |
| | 0.42882n | 0.32163n | | | | | | | | − 23 | |
| −1.37 ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 9.46 | |
| +1.55 | | | | | | | | | | + 30 | |
| $\delta_2$ | | 12. 19.10 | | 59 50.5 | | | | | | − 5.90 | |
| 1.56797 | | | | | 48 | 34 | | | | 59 48.94 | 38 |
| 9.888341 | +36.98 | 3 39 | 2.1 | 6.0 | 3 3.00 | 19 | 45.35 | | 45 | 50 37 53.25 | |
| 1.57867n | 1.56794 | 1.56797 | | | | 50 38 | 31.15 | 31.85 | | 48 0.27 | |

| | | |
|---|---|---|
| | 0.27 | |
| − | 37 | + 759 |
| − | 39 | 10.81 |
| + | 810 | |
| + | 25 | |
| − | 6.20 | |
| | 4.88 | |

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1876phae.proj.16000R

480

Date$_1$ = 1876 Aug. 21 — Observer — Recorder — n = −.96

481

Date$_2$ = 1876 Aug. 23 — Observer — Recorder — n = −.95

Subtract 1$^s$.96 from all readings of sheet for Aug 21 and 23

| Star. | α | δ | Mag. | $T_\delta$ | $T_m$ | $T_e$ | $T_f$ | $T_g$ | $T_h$ | Sum | Mean | Red. to $T_m$ | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 17$^h$ 56$^m$ 11$^s$.2 | 50° 34′ 34″.4 | 9.0 9.2 | 17$^h$ 58$^m$ 50$^s$.9 8.4 11.3 23 7 | 58$^m$ 37$^s$.6 | 40$^s$.8 | 44$^s$.1 | 47$^s$.3 | 50$^s$.5 +15.81 | +.006 | 58$^m$ 43$^s$.406 −74.656 − 1.16 57 28.25 − 2.11 26.134 5 | | Add +.006 to ($\Delta T_{+m}$) Aug 21 21-hrs has been added to the sum of the constants and to final R.A |
| | κ | | 9.6 | 58 40.1 42.1 43.10 1 | 58 36.2 38.2 | 39.7 41.7 | 43.0 45.0 | 46.1 48.1 | 49.3 51.3 −1 16.51 | +.006 | 58 43.486 −75.38 6 − 115 57 28.33 − 2.06 26.29 5 | | Add +.006 to ($\Delta T_{+m}$) Aug 23 21-hrs has been added to the sum of the constants and to final R.A. |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | 2 | | | | | | | | | | | |
| 18 17 | 0 1 59 38.2 | 50 44 41.9 | 8.4 8.2 | 18 0 38.8 41.1 43.7 4.20 0 | 1 20.5 | 23.7 | 26.9 | 30.3 | 33.3 −1 15.82 | | 1 28.94 −74.656 − 116 0 11.13 − 2.12 8.00 8 6 | | |
| | κ | | 8.2 | 0 57.3 59.4 2.0 5.57 8 | 1 21.0 | 24.3 | 27.6 | 30.8 | 34.0 −1 16.50 | | 1 28.54 −75.38 6 − 115 0 11.01 − 2.07 8.94 7 1 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| 2 2 | 3 0 27.2 | 52 50 49.7 | 9.0 8.9 | 3 43.5 47.0 49.5 4.67 5 | 4 5.4 | 8.8 | 12.3 | 15.6 | 19.1 −1 15.90 | | 4 12.24 −74.656 − 125 2 56.34 − 2.10 54.24 3 1 | | |
| | κ | | 9.0 | 3 32.5 35.6 39.4 3.83 4 | 4 5.9 | 9.3 | 12.7 | 16.2 | 19.6 −1 16.60 | | 4 12.74 −75.38 6 − 124 2 56.12 − 2.04 54.10 3 0 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| 4 4 | 5 9 36.2 | 52 53 53.0 | 8.9 8.7 | 5 38.6 42.1 46.3 4.00 1 | 6 15.2 | 18.3 | 21.8 | 25.3 | 28.4 −1 15.91 | | 6 2.88 −74.65 6 − 125 5 5.96 − 2.10 3.85 2 1 | | |
| | κ | | 9.0 | 5 44.7 47.4 50.9 4.67 6 | 6 15.7 | 19.2 | 22.4 | 25.8 | 29.3 −1 16.59 | | 6 2.48 −75.38 6 − 124 5 5.86 −2.04 5 3.84 2 3 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |
| 9 8 | 18 55.4 | 52 02 1.6 | 8.0 8.4 | 10 8.4 10.5 13.0 4.83 9 | 10 38.0 | 41.4 | 44.7 | 48.1 | 51.5 −1 15.88 | | 10 4.74 −74.65 6 − 123 9 28.86 − 2.14 26.71 2 5 4 | | |
| | κ | | 8.0 | 10 12.2 15.3 18.1 15.20 4 | 10 38.6 | 42.0 | 45.4 | 48.6 | 51.9 −1 16.59 | | 10 4.30 −75.38 7 − 122 9 28.70 − 2.08 26.63 5 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| | $\alpha_2$ | | | | | | | | | | | | |

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1876phae.proj.1600R



Aug 21 +3 ~~46.50~~ ~~47.92~~ 47.92 −.13 +2.59 +2.59

23 +3 48.72 −.14 +2.67 +2.67

Runs

| | $T_m - T_S$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +35.83 | 2′ 38.5 | 38.3 | .8 | 52 2 38.40 | 30′ | 9.95 | | 50′ | 50° 33′ 19.77 | |
| | 1.55425 | 1.55425 | | | | 50 33 | ~~56.45~~ | 57.87 | | 27.70 | +17.84 |
| d | 9.88782 | 9.80290 | | | | | − ~~36.68~~ | −30.17 | | − 34 | 10.43 |
| | 1.56443 | 1.47951 | | | | | | | | − 34 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 822 | |
| | | | | | | | | | | + 30 | |
| −1.45 $\delta_1$ | | 57 23.69 | | 33 30.8 | | | | | | − 7.60 | |
| +0.23 | | | | | 53 | | | | | 33 30.53 | |
| | + 2.76 | 3 5.9 | 6.0 | 11.9 | 3 5.95 | ~~50~~ 29 | 42.40 | | 50 | 50 33 ~~28.80~~ | |
| | 0.44091 | 0.44091 | | | | 50 33 | ~~31.12~~ | | | − 0 | + 8.10 |
| d | 9.88782 | 9.80290 | | | | | − ~~28.24~~ | | | − 43 | 10.77 |
| | ~~0.45~~ 0.36817 | 0.36817 | | | | | ~~23.24~~ | | | + 8.23 | |
| ((δ) − D) $\frac{d'}{100}$ | 0.45109 | | | | | | − 2.32 | | | + 30 | |
| −1.45 | | | | | | | | | | − 7.80 | |
| +0.23 $\delta_2$ | | 57 23.84 | | 33 32.0 | | | | | | 33 31.87 | |
| | | | | | 44 | | | | | | |
| | +45.74 | 4 30.9 | 30.1 | 1.0 | 4 30.50 | 38 | 17.85 | | 40 | 50 41 ~~17.77~~ | |
| | 1.66030 | 1.66030 | | | | 50 42 | ~~4.35~~ | 5.77 | | 27.37 | +7.51 |
| d | 9.88865 | 9.80166 | | | | | − ~~46.91~~ | −38.40 | | − 56 | 10.10 |
| | 1.67131 | 1.58432 | | | | | | | | − 59 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 836 | |
| | | | | | | | | | | + 30 | |
| −1.44 $\delta_1$ | | 0 6.56 | | 41 29.8 | | | | | | − 7.70 | |
| −0.01 | | | | | 44 | | | | | 41 29.77 | |
| | +27.97 | 4 45.8 | 46.0 | 11.8 | 4 45.90 | 4 38 | 2.45 | | 40 | 50 41 ~~22.48~~ | |
| | 1.44669 | 1.44669 | | | | 50 41 | + ~~25.17~~ | | | 27.69 | +7.80 |
| d | 9.88865 | 9.80166 | | | | | − 28.69 | | | − 21 | 10.47 |
| | ~~1.45729~~ | 1.37071 | | | | | − 23.48 | | | − 66 | |
| ((δ) − D) $\frac{d'}{100}$ | 1.45770 | | | | | | | | | + 837 | |
| | | | | | | | | | | + 30 | |
| −1.44 $\delta_2$ | | 0 6.53 | | 41 30.2 | | | | | | − 7.90 | |
| −0.01 | | | | | 36 | | | | | 41 30.26 | |
| | +25.57 | 1 15.1 | 14.1 | 9.2 | 1 14.60 | 46 | 33.75 | | 35 | 52 ~~46~~ ~~53.97~~ | |
| | 1.40773 | 1.40773 | | | | 52 50 | ~~20.25~~ | 21.67 | | 50 1.20 | +16.64 |
| d | 9.88948 | 9.78113 | | | | | − ~~26.28~~ | −20.47 | | − 17 | 13.23 |
| | 1.41957 | 1.31122 | | | | | | | | − 16 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +1057 | |
| −1.31 | | | | | | | | | | + 40 | |
| −0.25 $\delta_1$ | | 2 51.93 | | 50 6.3 | | | | | | − 7.90 | |
| | | | | | 36 | | | | | 50 6.53 | |
| | +36.91 | 1 7.1 | 5.9 | 13.0 | 1 6.50 | 46 | 41.85 | | 35 | 52 ~~49~~ ~~51.58~~ | |
| | 1.56714 | 1.56714 | | | | 52 50 | ~~30.57~~ | | | 50 1.03 | +10.47 |
| d | 9.90149 | 9.78097 | | | | | − ~~35.99~~ | | | − 36 | 13.14 |
| | 1.59099 | 1.47047 | | | | | − 29.54 | | | − 15 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +1058 | |
| | | | | | | | | | | + 40 | |
| −1.31 $\delta_2$ | | 2 51.79 | | 50 5.7 | | | | | | − 8.20 | |
| −0.25 | | | | | 32 | | | | | 50 59.7 | |
| | +39.86 | 2 39.9 | 39.3 | 1.2 | 2 39.60 | 50 | 8.75 | | 30 | 52 53 ~~13.11~~ | |
| | 1.60054 | 1.60054 | | | | 52 53 | ~~45.25~~ | 56.67 | | 24.80 | +10.26 |
| d | 9.90178 | 9.78047 | | | | | − ~~42.14~~ | −31.87 | | − 42 | 12.85 |
| | 1.62468 | 1.50337 | | | | | | | | − 34 | |
| ((δ) − D) $\frac{d'}{100}$ | 9.9 | | | | | | | | | +1062 | |
| | | | | | | | | | | + 40 | |
| −1.21 $\delta_1$ | | 5 1.64 | | 53 29.2 | | | | | | − 8.00 | |
| −0.44 | | | | | 32 | | | | | 53 29.65 | |
| | +34.81 | 2 44.9 | 43.9 | 8.8 | 2 44.40 | 50 | 3.95 | | 30 | 52 53 ~~15.87~~ | |
| | 1.54170 | 1.54170 | | | | 52 53 | 52.67 | | | 24.84 | +10.33 |
| d | 9.90178 | 9.78047 | | | | | − ~~36.80~~ | | | − 32 | 13.00 |
| | 1.56584 | 1.44453 | | | | | − 27.83 | | | − 38 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +1063 | |
| | | | | | | | | | | + 40 | |
| −1.21 $\delta_2$ | | 5 1.64 | | 53 29.1 | | | | | | − 8.30 | |
| −0.44 | | | | | 24 | | | | | 53 29.54 | |
| | +34.11 | 4 24.7 | 26.1 | .8 | 4 26.40 | 58 | 21.95 | | 20 | 52 1 ~~32.81~~ | |
| | 1.53288 | 1.53288 | | | | 52 2 | ~~8.45~~ | 9.87 | | 42.06 | + 9.19 |
| d′ | 9.89673 | 9.78902 | | | | | − ~~35.67~~ | −27.81 | | − 31 | 11.78 |
| | 1.55197 | 1.44426 | | | | | | | | − 57 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 972 | |
| | | | | | | | | | | + 36 | |
| −1.36 $\delta_1$ | | 9 24.36 | | 1 45.0 | | | | | | − 8.00 | |
| −0.82 | | | | | 24 | | | | | 1 43.84 | |
| | +30.10 | 4 29.4 | 29.8 | 1.2 | 4 29.60 | 58 | 18.75 | | 20 | 52 1 ~~36.02~~ | |
| | 1.47857 | 1.47857 | | | | 52 2 | 7.47 | | | 42.93 | + 9.23 |
| d | 9.89673 | 9.78902 | | | | | − ~~31.45~~ | | | − 24 | 11.90 |
| | 1.49766 | 1.38995 | | | | | − 24.54 | | | − 63 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 9.75 | |
| | | | | | | | | | | + 35 | |
| −1.36 $\delta_2$ | | 9 24.27 | | 1 45.7 | | | | | | − 8.30 | |
| −0.82 | | | | | | | | | | 1 46.53 | |

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480 481 98

Date$_1$ = 1876 Aug 21 Observer / Recorder Date$_2$ = Aug 23 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11 2.3 | 52° 30 | 9.3 | 18 11 47.4 | 12 20.6 | 23.8 | 27.1 | 31.0 | 34.4 | 12 2.38 | | | |
| | 10 39.3 | 29.5 | 9.3 | 50.5 | | | | | | -74.65 | 6 | | |
| | κ | | | 54.0 | | | | − 1 | 15.91 | − 1.25 | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 49. | | | | | | 11 11.48 | | | |
| | $\alpha_1$ | | | | | | | | | − 2.14 | | | |
| | | | | | | | | | | 9.33 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | | 6 | | |
| | | | 9.5 | 17 47.1 | 12 21.3 | 24.3 | 27.7 | 31.2 | 34.5 | 12 2.80 | | | |
| | | | | 50.6 | | | | | | -75,387 | | | |
| | κ | | | 54.7 | | | | − 1 | 16.60 | − 1.24 | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 49 | | | | | | 11 11.18 | | | |
| | | | | 12 15.3 | | | | | | − 2.08 | | | |
| | $\alpha_2$ | | | | | | | | | 9.1 | 2 | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | | 29 | | |
| 18 7 | | 53 26 | 9.0 | 18 55.1 | 19 23.5 | 27.1 | 30.6 | 33.9 | 37.6 | 19 3.54 | | | |
| 17 44.3 | | 28.7 | 8.9 | 58.2 | | | | | | -74.65 | 6 | | |
| | κ | | | 0.9 | | | | − 1 | 15.95 | − 1.30 | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 57 | | | | | | 18 14.59 | | | |
| | | | | | | | | | | − 2.15 | | | |
| | $\alpha_1$ | | | | | | | | | 12.48 | 4 | | |
| | | | | | | | | | | 11. | | | |
| | | | | | | | | | | | 0 | | |
| | | | 9.1 | 19 10.3 | 19 24.3 | 27.6 | 31.1 | 34.7 | 37.8 | 19 3.10 | | | |
| | | | | 12.5 | | | | | | -75,387 | | | |
| | κ | | | 16.0 | | | | − 1 | 16.65 | − 1.28 | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 1 | | | | | | 18 14.44 | | | |
| | | | | | | | | | | − 2.09 | | | |
| | $\alpha_2$ | | | | | | | | | 12.36 | | | |
| | | | | | | | | | | 1 | | | |
| | | | | | | | | | | | 6 | | |
| 19 12 | | 51 29 | 7.4 | 19 58.3 | 20 ~~47~~ | 33.7 | 37.0 | 40.5 | 43.9 | 20 3.12 | | | |
| 18 49.8 | | 28.3 | 6.8 | 10 | 36.5 | | | | | -74.65 | 6 | | |
| | κ | | | 3.4 | | | | − 1 | 15.87 | − 1.21 | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | ~~4.90~~ | | | | | | 19 2.26 | | | |
| | | | | 19 59.90 | | | | | | − 2.18 | | | |
| | $\alpha_1$ | | | | | | | | | 19.07 | | | |
| | | | | | | | | | | 18 | | | |
| | | | | | | | | | | | 6 | | |
| | | | 6.5 | 20 7.9 | 20 31.0 | 34.5 | 37.7 | 41.1 | 44.4 | 20 3.74 | | | |
| | | | | 10.7 | | | | | | -75,387 | | | |
| | κ | | | 13.0 | | | | − 1 | 16.56 | − 1.20 | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | ~~4.53~~ | | | | | | 19 2.16 | | | |
| | | | | 9 | | | | | | − 2.13 | 5 | | |
| | $\alpha_2$ | | | | | | | | | 19.04 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 7 | | | |
| 20 35 | | 54 21 | 7.4 | 21 19.9 | 21 37.2 | 37.4 | 38.0 | 1.4 | 5.1 | 21 3.02 | | | |
| 20 12.8 | | 20.7 | 7.1 | 22.4 | | | | | | - 74.65 | 6 | | |
| | κ | | | 25.7 | | | | − 1 | 15.99 | − 1.34 | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | ~~28.67~~ | | | | | | 20 2.33 | | | |
| | | | | 1 | | | | | | − 2.14 | | | |
| | $\alpha_1$ | | | | | | | | | 39.88 | 9 | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 7 | | | |
| | | | 7.7 | 21 24.0 | 21 37.6 | 37.3 | 38.5 | 2.2 | 5.8 | 21 3.68 | | | |
| | | | | 26.2 | | | | | | - 75,387 | | | |
| | κ | | | ~~3.10~~ | | | | − | 16.70 | − 1.33 | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 29.7 | | | | | | 20 1.97 | | | |
| | | | | ~~28.63~~ | | | | | | − 2.08 | | | |
| | $\alpha_2$ | | | 5 | | | | | | 39.90 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | | 39 | | |
| 21 17 | | 53 45 | 9.2 | 22 22.3 | 22 38.8 | 37.2 | 40.7 | 44.3 | 47.9 | 22 ~~4.78~~ | | | |
| 20 54.2 | | 45.0 | 9.1 | 24.6 | | | | | | -74.65 | 6 | | |
| | κ | | | 27.6 | | | | − 1 | 15.96 | − 1.30 | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | ~~28.83~~ | | | | | | 21 24.83 | | | |
| | | | | 3 | | | | | | − 2.15 | | | |
| | $\alpha_1$ | | | | | | | | | 23.67 | | | |
| | | | | | | | | | | 1 | | | |
| | | | | | | | | | | 0 | | | |
| | | | 9.3 | 23 2.5 | 22 — | — | 41.2 | 44.8 | 48.5 | 22 4.33 | | | |
| | | | | 8.4 | | | 41.3 | | | -75,387 | | | |
| | κ | | | 11.0 | | | 41.5 | − 1 | 16.64 | − 1.28 | | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | ~~8.30~~ | | | | | | 21 24.67 | | | |
| | | | | 6 | | | | | | − 2.09 | | | |
| | $\alpha_2$ | | | | | | | | | 22.58 | | | |
| | | | | | | | | | | 1 | | | |

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Runs

+2.59
+2.67

| | $T_m - T_s$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ' |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +36.75 | 1 39.7 | 39.9 | 1.6 | 1 39.80 | 26' | 8.55 | | 55 | 52 29 16.77 | |
| | 1.565526 | 1.565526 | | | | 52 29 | 55.05 | 56.47 | | 26.82 +1420 | |
| d | 9.899447 | 9.784455 | | | | | 36.61 | −29.65 | | − 35 | 12.59 |
| | 1.587097n | 1.472077n | | | | | | | | − 21 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +1021 | |
| | | | | | | | | | | + 35 | |
| −1.33 $\delta_1$ | | 11 7.00 | | 29 30.4 | | | | | | −8.10 ? | |
| −0.96 | | | | | | | | | | 29 31.31 | 28.24 |
| | +37.00 | 2 17.9 | 17.1 | 10 | 2 17.50 | 52 25 | 30.65 | | 55 | 52 28 40.47 | 29 7.65 |
| | 1.568220 | 1.568220 | | | | 52 29 | 19.57 | | | 40.70 +941 | − 36 +1.95 |
| | 9.899037 | 9.784461 | | | | | 38.90 | | | − 36 | − 28 +12.62 |
| | 1.589933n | 1.475177n | | | | | 29.87 | | | − 32 12.58 | .94 |
| ((δ) − D) $\frac{d'}{100}$ | | 2 0.0 | 59.1 | 119.1 | 59.55 | 25 | 48.80 | | 55 | + 10.24 | + 35 |
| | | 1.568220 | | | | 52 29 | 37.52 | | | + 35 | − 8.40 |
| −1.33 $\delta_2$ | | 9.784461 | 11 6.79 | 29 31.8 | | | 4.28 | | | −8.40 | 29 11.89 |
| −0.96 | | 1.475172 | | | | | 27.87 | | | 28 53.48 ? | 32.78 |
| | +32.47 | 4 54.9 | 52.9 | 107.8 | 4 53.90 | 22 | 54.45 | | 55 | 53 46 56.37 | 53 26 16.75 |
| | 1.511148 | 1.511148 | | | | 53 27 | 30.95 | 32.37 | | 27 6.75 | − 28 +1067 |
| d | 9.904499 | 9.774473 | | | | | 34.58 | −25.62 | | | − 64 13.26 |
| | 1.538837n | 1.408577n | | | | | | | | | +1119 |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | 53 22 | 54.45 | | | | + 40 |
| | | | | | | 53 26 | 42.37 | | | | −840 |
| −1.28 $\delta_1$ | | 18 10.16 | | 26 20.0 | | | −25.62 | | | | 26 21.61 |
| −1.59 | | | | | | | | | | | |
| | +18.37 | 0 8.4 | 7.1 | 15.7 | 0 7.85 | 22 | 40.50 | | 0 | 53 26 9.88 | |
| | 1.259335 | 1.259335 | | | | 53 26 | 29.22 | | | 14.87 +14.53 | |
| d | 9.904480 | 9.775077 | | | | | 19.24 | | | − 8 | 14.20 |
| | 1.286514n | 1.156778n | | | | | 14.35 | | | − 2 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +1123 | |
| | | | | | | | | | | + 40 | |
| −1.28 $\delta_2$ | | 18 10.08 | | 26 18.8 | | | | | | −8.70 | |
| −1.59 | | | | | | | | | | 26 20.37 | |
| | +36.22 | 2 21.7 | 21.1 | .8 | 2 21.40 | 25 | 26.95 | | 55 | 51 28 35.89 | |
| | 1.558955 | 1.558955 | | | | 51 29 | 13.775 | 34.87 | | 44.97 +8.83 | |
| d | 9.893444 | 9.779431 | | | | | 37.56 | −29.90 | | − 36 | 11.42 |
| | 1.574754n | 1.447562n | | | | | 29. | | | − 30 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 919 | |
| | | | | | | | | | | + 30 | |
| −1.40 $\delta_1$ | | 19 16.67 | | 28 46.4 | | | | | | −8.30 | |
| −1.68 | | | | | | | | | | 28 48.09 | |
| | +27.21 | 2 30.1 | 30.5 | .6 | 2 30.30 | 25 | 18.05 | | 55 | 57 28 38.58 | |
| | 1.434473 | 1.434473 | | | | 51 29 | 6.77 | | | 44.31 +8.95 | |
| d | 9.893441 | 9.794431 | | | | | 28.82 | | | − 20 | 11.62 |
| | 1.450534n | 1.351404n | | | | | 22.46 | | | − 35 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 920 | |
| | | | | | | | | | | + 30 | |
| −1.40 $\delta_2$ | | 19 16.65 | | 28 45.6 | | | | | | −860 | |
| −1.68 | | | | | | | | | | 28 47.33 | |
| | +35.35 | 4 54.1 | 48.9 | 100.0 | 4 50.00 | 17 | 58.35 | | 0 | 54 21 6.44 | |
| | 1.548396 | 1.548396 | | | | 54 21 | 44.85 | 46.27 | | 18.17 +1166 | |
| d | 9.909996 | 9.765377 | | | | | 38.08 | −27.30 | | − 33 | 14.25 |
| | 1.580713n | 1.436172n | | | | | | | | − 62 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +1216 | |
| | | | | | | | | | | + 45 | |
| −1.22 $\delta_1$ | | 20 37.67 | | 21 22.9 | | | | | | −8.50 | |
| −1.80 | | | | | | | | | | 21 2472 | 722 |
| | +32.05 | 4 5.9 | | 11.7 | 4 53.85 | 17 | 52.50 | | 0 | 54 21 6.69 | 9.19 |
| | 1.505833 | 1.505833 | 528 | | | 54 21 | 41.22 | | | 16.47 +11.67 | |
| d | 9.909996 | 9.765377 | | | | | 34.53 | | | − 27 | 14.34 |
| | 1.538154n | 1.393576n | | | | | 24.75 | | | − 69 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +12.18 | |
| | | | | | | | | | | + 45 | |
| −1.22 $\delta_2$ | | 20 37.68 | | 21 22.7 | | | | | | −8.80 | |
| −1.80 | | | | | | | | | | 21 2201 | 2451 |
| | +15.95 | 0 58.5 | 56.9 | 15.4 | 0 57.70 | 41 | 50.65 | | 40 | 53 45 20.70 | |
| | 1.202976 | 1.202976 | | | | 53 45 | 37.15 | 38.57 | | 26.07 +1.74 | |
| d | 9.906677 | 9.771644 | | | | | 14.05 | −12.50 | | − 7 | 14.33 |
| | 1.231749n | 1.096876n | | | | | | | | − 12 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | +1153 | |
| | | | | | | | | | | + 40 | |
| −1.26 $\delta_1$ | | 21 20.41 | | 45 30.1 | | | | | | −8.40 | |
| −1.86 | | | | | | | | | | 45 3200 | |
| | −26.0 | 1 32.9 | 31.6 | 45 | 1 32.25 | 41 | 16.10 | | 40 | 45 25.20 | |
| | 1.41477n | | | | | 53 45 | 4.82 | | | − 18 +11.56 | |
| d | 9.771811 | 9.771161 | | | | | + 20.38 | | | − 21 | 14.23 |
| | 1.30914 | | | | | | | | | +11.55 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 40 | |
| −1.26 | | | | | | | | | | −8.70 | |
| −1.86 $\delta_2$ | | 21 20.33 | | 45 28.9 | | | | | | 45 3073 | |

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480 481 100

Date$_1$ = 1876 Aug. 21 Observer / Recorder

Date$_2$ = Aug. 23 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 28 | h m s | ° ′ ″ | | h m s | h m s | | | | | | | | |
| | 23 23 | 25 122 | 52 40 | 9.1 | 18 24 14.1 | 24 52.4 | 53.9 | 59.2 | 2.9 | 5.9 | 24 5826 | | |
| | | | 8.42 | 8.6 | 17.1 | | | | | | − 74.63 6 | | |
| | κ | | | | 20.1 | | | | −1 | 15.90 | − 1 25 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | 17.10 | | | | | | 23 5336 | | |
| | | | | | 16 | | | | | | − 2.19 | | |
| | $\alpha_1$ | | | | | | | | | | 48.17 | | V |
| | | | | | | | | | | | 0 | | |
| | | | | | | | | | | | 8 | | |
| | | | 8.9 | 24 | 17.8 | 24 53.1 | 56.5 | 0.0 | 3.5 | 6.8 | 24 5898 | | |
| | | | | | 21.2 | | | | | | −75.38 | | |
| | κ | | | | 24.9 | | | | −1 | 16.61 | − 1 24 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | 23.30 | | | | | | 23 5336 | | |
| | | | | | 0 | | | | | | − 2.13 | | V |
| | $\alpha_2$ | | | | | | | | | | 47.24 | | |
| | | | | | | | | | | | 0 | | |
| | | | | | | | | | | | 2 | | |
| 25 | 37 149 | 52 21 | 8.2 | 26 | 14.2 | 26 56.9 | 0.3 | 3.7 | 7.0 | 10.6 | 24 368 | | |
| 25 | | 2.08 | 8.4 | | 16.9 | | | | | | −74.63 6 | | |
| | κ | | | | 19.6 | | | | −1 | 15.91 | − 1 25 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | 18.90 | | | | | | 25 4778 | | |
| | | | | | 5 | | | | | | − 2.20 | | |
| | $\alpha_1$ | | | | | | | | | | 45.57 | | |
| | | | | | | | | | | | 4 | | |
| | | | | | | | | | | | 3 | | |
| | | | 8.8 | 26 | 25.0 | 26 57.4 | 0.8 | 4.3 | 7.6 | 11.0 | 0 | | |
| | | | | | 28.4 | | | | | | 27 422 | | |
| | κ | | | | 30.6 | | | | −1 | 16.6 | −75.38 | | |
| | ((δ) − D) $\frac{\kappa'}{100}$ | | | | 28.00 | | | | | | − 1 24 | | |
| | | | | | 7 | | | | | | 25 4660 | | 2 |
| | $\alpha_2$ | | | | | | | | | | − 2.14 | | |
| | | | | | | | | | | | 45.47 | | 8 |
| | | | | | | | | | | | 4 | | |
| | | | | | | | | | | | 44.48 | | |
| | 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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+ 2.59

+ 2.67

Runs

| | $T_m - T_s$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +42.16 | 1′ 19.5 | 18.1 | 17.6 | 46′ 18.80 | 36′ | 29.″55 | | 45′ | 52° 39′ ~~31.″62~~ | |
| | 1.624900 | 1.62490 | | | | 52 40 | ~~16.05~~ | 17.47 | | 43.58 | + 10.17 |
| d | 9.900043 | 9.78280 | | | | | ~~44.43~~ | −33.89 | | − 47 | 12.76 |
| | 1.647691 | 1.53006 m | | | | | | | | − 17 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 1041 | |
| | | | | | | | | | | + 40 | |
| −1.33 $\delta_1$ | | 23 38.84 | | 39 45.8 | | | | | | −8.50 | |
| −2.07 | | | | | 46 | | | | | 39 4784 | |
| | +38.68 | 1 246 | 23.3 | 79 | 1 23.95 | 36 | 24.40 | | 45 | 52 39 ~~32.36~~ | |
| | 1.58749 | 1.58749 | | | | 52 40 | 13.12 | | | 4203 | + 10.23 |
| d | 9.900043 | 9.78280 | | | | | ~~40.76~~ | | | − 39 | 12.90 |
| | 1.610284 | 1.49265 m | | | | | −31.09 | | | − 20 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 10.42 | |
| | | | | | | | | | | + 40 | |
| −1.33 $\delta_2$ | | 23 38.91 | | 39 44.1 | | | | | | −8.80 | |
| −2.07 | | | | | | | | | | 39 4613 | |
| | +46.78 | 4 7.0 | 5.9 | 12.9 | 4 6.45 | 18 | 41.90 | | 0 | 52 21 ~~39.30~~ | |
| | 1.67006 | 1.67006 | | | | 52 22 | ~~28.40~~ | 29.82 | | ~~51.96~~ | + 9.32 |
| d | 9.898669 | 9.78576 | | | | | ~~49.10~~ | −37.86 | | − 57 | 11.91 |
| | 1.691114 | 1.57818 m | | | | | | | | − 53 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 1007 | |
| | | | | | | | | | | + 35 | |
| −1.35 $\delta_1$ | | 25 43.22 | | 21 53.1 | | | | | | −8.50 | |
| −2.24 | | | | | | | | | | 21 5537 | |
| | +36.22 | 4 15.8 | 14.5 | 10.8 | 4 15.15 | 18 | 33.20 | | 0 | 52 21 ~~47.90~~ | |
| | 1.55895 | 1.55895 | | | | 52 22 | 21.92 | | | ~~52.61~~ | + 9.52 |
| d | 9.898669 | 9.78576 | | | | | ~~38.02~~ | | | − 34 | 12.19 |
| | 1.458000 | 1.46707 m | | | | | −29.31 | | | − 59 | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | + 1010 | |
| | | | | | | | | | | + 35 | |
| −1.35 $\delta_2$ | | 25 43.13 | | 21 53.8 | | | | | | −880 | |
| −2.24 | | | | | | | | | | 21 5600 | |
| | | | | | | | | | | | |
| 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) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |
| | | | | | | | | | | | |
| d | | | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_1$ | | | | | | | | | | | |
| | | | | | | | | | | | |
| d | | | | | | | | | | | |
| ((δ) − D) $\frac{d'}{100}$ | | | | | | | | | | | |
| $\delta_2$ | | | | | | | | | | | |

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Date$_1$ = 1876 Aug. 26 n = -1.06 Observer Recorder

Date$_2$ = 1876 Aug. 28 n = -1.04 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 58 20 | 54° 17′ | 8.8 | 17 59 21.7 | 59 37.5 | 41.0 | 44.7 | 48.2 | 51.7 | 59 | 4482 | Subtract 1 sec from sec the readings for Aug 26 + 28 | |
| | 57 57.2 | 17.2 | 8.9 | 24.7 | | | | | | | -77.59 | | |
| | κ | | | 27.0 | | | | | -1 19.05 | | - 1.46 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 2347 | | | | | | 58 | 2557 | | |
| | | | | 3 | | | | | | | -1.89 | | |
| | $\alpha_1$ | | | | | | | | | | 23.68 | | |
| | | | | | | | | | | | 2 | | |
| | | | | | | | | | | | 4 | | |
| | | | 8.8 | 59 14.5 | 59 38.2 | 41.9 | 45.4 | 48.9 | 52.6 | 57 | 4540 | Add +.014 to (AP+m) Aug 28 it has been added to the sum of the constants and to final R.A. | |
| | | | | 17.0 | | | | | | +014 | -78.56 | | |
| | κ | | | 19.3 | | | | | -1 19.99 | | - 1.44 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 1893 | | | | | | 58 | 25.40 | | |
| | | | | 5 | | | | | | | -1.82 | | |
| | $\alpha_2$ | | | | | | | | | | 23.58 9 | | |
| | | | | | | | | | | | 2 | | |
| | | | | | | | | | | | 8 | | |
| 18 | 2 24 | 53 21 | 8.3 | 18 3 5.0 | 3 42.9 | 46.3 | 49.7 | 53.2 | 56.7 | 3 | 4876 | | |
| | 2 1.1 | 21.0 | 8.1 | 8.7 | | | | | | | -77.59 | | |
| | κ | | | 11.3 | | | | | -1 19.02 | | - 143 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 833 | | | | | | 2 | 30.74 | | |
| | | | | 7 | | | | | | | -1.93 | | |
| | $\alpha_1$ | | | | | | | | | | 28.81 | | |
| | | | | | | | | | | | 7 | | |
| | | | 8.4 | 3 14.4 | 3 43.5 | 47.3 | 50.7 | 54.1 | 57.6 | 3 | 49 | | |
| | | | | 18.2 | | | | | | | 3264 | | |
| | κ | | | 20.6 | | | | | -1 19.95 | | -78.56 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 1873 | | | | | | | - 1.40 | | |
| | | | | 6 | | | | | | 2 | 30.68 | | |
| | $\alpha_2$ | | | | | | | | | | -187 | | |
| | | | | | | | | | | | 28.81 2 | | |
| | | | | | | | | | | | 7 | | |
| | 3 0 | 54 30 | 8.2 | 4 11.2 | 4 18.3 | 21.9 | 25.3 | 28.9 | 32.4 | 4 | 4 | | |
| | 2 37.4 | 30.0 | 8.3 | 13.7 | | | | | | | 2836 | | |
| | κ | | | 16.6 | | | | | -119.07 | | -77.59 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 1883 | | | | | | | - 148 | | |
| | | | | 2 | | | | | | 3 | 6.29 | | |
| | $\alpha_1$ | | | | | | | | | | -1.90 | | |
| | | | | | | | | | | | 4.39 | | |
| | | | | | | | | | | | 3 | | |
| | | | | | | | | | | | 5 | | |
| | | | 8.2 | 4 15.2 | 4 19.2 | 22.7 | 26.1 | 29.8 | 33.2 | 4 | 2820 | | |
| | | | | 18.2 | | | | | | | -78.56 6 | | |
| | κ | | | 21.8 | | | | | -1 20.00 | | - 146 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 1840 | | | | | | 3 | 6.18 | | |
| | | | | 7 | | | | | | | -1.84 | | |
| | $\alpha_2$ | | | | | | | | | | 4.34 6 | | |
| | | | | | | | | | | | 3 | | |
| | | | | | | | | | | | 4 | | |
| | 8 11 | 54 31 | 7.5 | 8 50.0 | 9 28.8 | 32.4 | 35.9 | 39.4 | 43.0 | 9 | 3590 | | |
| | 7 48.7 | 21.2 | 8.0 | 53.7 | | | | | | | -78.59 | | |
| | κ | | | 56.1 | | | | | -1 19.07 | | - 148 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 5827 | | | | | | 8 | 16.83 | | |
| | | | | 2 | | | | | | | -1.93 | | |
| | $\alpha_1$ | | | | | | | | | | 15.90 14.90 | | |
| | | | | | | | | | | | 3 | | |
| | | | | | | | | | | | 5 | | |
| | | | 7.7 | 8 53.9 | 9 29.6 | 33.0 | 36.6 | 40.1 | 43.8 | 9 | 3862 | | |
| | | | | 58.8 | | | | | -1 20.01 | | -78.56 6 | | |
| | κ | | | 1.8 | | | | | +36.2 | | - 146 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 5883 | | | | | | 8 | 1660 | | |
| | | | | 7 | | | | | | | -186 5 | | |
| | $\alpha_2$ | | | | | | | | | | 14.74 | | |
| | | | | | | | | | | | 3 | | |
| | | | | | | | | | | | 3 | | |
| | 9 17 | 53 29 | 9.0 | 10 3.4 | 10 38.0 | 41.5 | 44.9 | 48.3 | 51.9 | 10 | 4492 | | |
| | 8 54.2 | 28.7 | 8.8 | 6.7 | | | | | | | -77.59 | | |
| | κ | | | 9.8 | | | | | -1 19.02 | | - 143 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 2463 | | | | | | 9 | 25.90 | | |
| | | | | 5 | | | | | | | -1.96 | | |
| | $\alpha_1$ | | | | | | | | | | 23.94 | | |
| | | | | | | | | | | | 2 | | |
| | | | | | | | | | | | 4 | | |
| | | | 9.0 | 10 10.4 | 10 38.5 | 42.1 | 45.5 | 48.1 | 52.7 | 10 | 4558 | | |
| | | | | 13.6 | | | | | 1995 | | -78.56 6 | | |
| | κ | | | 16.4 | | | | | -1 36.25 | | - 140 | | |
| | ((δ) — D) $\frac{\kappa'}{100}$ | | | 1847 | | | | | | 9 | 25.62 | | |
| | | | | 2 | | | | | | | -1.90 | | |
| | $\alpha_2$ | | | | | | | | | | 23.72 3 | | |
| | | | | | | | | | | | 2 | | |

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Aug 26 + 3' 49.″49 50.02 −.″14 + 2.″88
28 + 3 49.90 50.97 −.14 + 2.62

+288
+262

Runs

| | $T_m - T_s$ | A | C | Sum | Mean | Red. to m. wire | Red. to h. wire | Red. runs | Stroke | z | δ′ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | +20.15 | 4 27.4 | 25.5 | 12.9 | 9 4 26.45 | 13 1 | 21.90 | | 5 | 54° 16′ 49.″41 | |
| | 1.30428 | 1.30428 | | | 54 17 | ~~15~~ | ~~11.09~~ | 11.92 | | + 56.33 | +4.47 |
| d | 9.90951 | 9.76625 | | | | − | ~~21.68~~ | −16.59 | | − 10 | 14.35 |
| ((δ) − D) $\frac{d'}{100}$ | 1.33615n | 1.19289n | | | | | | | | − 62 | |
| | | | | | | | | | | + 1179 | |
| | | | | | | | | | | + 40 | |
| −1.21 $\delta_1$ | | 58 21.47 | | 17 2.2 | | | | | | −8.60 | |
| +0.15 | | | | | 9 | 13 | | | | 17 20.8 | |
| | +28.47 | 4 20.9 | 20.2 | 1.1 | 4 20.55 | ~~18~~ | 27.80 | | 5 | 54° 16′ ~~47.06~~ | |
| | 1.45439 | 1.45439 | | | 54 17 | | ~~17.90~~ | 18.77 | | 56.74 | +11.48 |
| d | 9.90955 | 9.76625 | | | | − | ~~26.67~~ | −22.03 | | − 21 | 14.10 |
| ((δ) − D) $\frac{d'}{100}$ | 1.48626n | 1.34300n | | | | | | | | − 60 | |
| | | | | | | | | | | + 1189 | |
| | | | | | | | | | | + 40 | |
| −1.21 $\delta_2$ | | 58 21.38 | | 17 2.2 | | | | | | −8.80 | |
| +0.15 | | | | | 5 | 17 | | | | 17 20.4 | |
| | +41.43 | 0 5.0 | 4.0 | 9.0 | 0 4.50 | ~~22~~ | 43.85 | | 5 | 53 ~~20~~ ~~48.97~~ | |
| | 1.61731 | 1.61731 | | | 53 21 | | 33.04 | 33.87 | | 21 1.10 | +10.76 |
| d | 9.90443 | 9.77575 | | | | − | ~~41.07~~ | −32.77 | | − 45 | 13.64 |
| ((δ) − D) $\frac{d'}{100}$ | 1.64410n | 1.51542n | | | | | | | | − 2 | |
| | | | | | | | | | | +1083 | |
| | | | | | | | | | | + 40 | |
| −1.28 $\delta_1$ | | 2 26.53 | | 21 5.9 | | | | | | −8.60 | |
| −0.21 | | | | | 5 | 17 | | | | 21 6.14 | |
| | +32.91 | 0 11.1 | 11.0 | .1 | 0 11.05 | ~~22~~ | 37.30 | | 5 | 53 ~~20~~ ~~52.20~~ | |
| | 1.51733 | 1.51733 | | | 53 21 | | ~~27.20~~ | 28.27 | | 21 3.23 | +11.02 |
| d | 9.90434 | 9.77592 | | | | − | ~~35.00~~ | −26.04 | | − 28 | 13.64 |
| ((δ) − D) $\frac{d'}{100}$ | 1.54403n | 1.41561n | | | | | | | | − 2 | |
| | | | | | | | | | | +1092 | |
| | | | | | | | | | | + 40 | |
| −1.28 $\delta_2$ | | 2 26.54 | | 21 6.8 | | | | | | −8.90 | |
| −0.21 | | | | | 56 | | | | | 21 6.97 | |
| | +11.53 | 1 30.4 | 29.6 | 60.0 | 1 30.00 | 26 | 18.35 | | 55 | 54 29 ~~55.10~~ | |
| | 1.06183 | 1.06183 | | | 54 30 | | ~~7.54~~ | 8.37 | | 59.50 | +12.19 |
| d | 9.91069 | 9.76395 | | | | − | ~~12.44~~ | −8.87 | | − 4 | 15.07 |
| ((δ) − D) $\frac{d'}{100}$ | 1.09488n | 0.94814n | | | | | | | | − 21 | |
| | | | | | | | | | | +1199 | |
| | | | | | | | | | | + 45 | |
| −1.20 $\delta_1$ | | 3 2.19 | | 30 5.6 | | | | | | −8.70 | |
| −0.26 | | | | | 56 | | | | | 30 5.87 | |
| | +7.80 | 1 33.8 | 33.2 | 10 | 1 33.50 | 26 | 14.85 | | 55 | 54 29 ~~56.53~~ | |
| | 0.89209 | 0.89206 | | | 54 30 | | ~~4.75~~ | 5.82 | | 59.82 | +12.32 |
| d | 9.91069 | 9.76395 | | | | − | ~~8.42~~ | −6.00 | | − 1 | 14.94 |
| ((δ) − D) $\frac{d'}{100}$ | 0.92514n | 0.77840n | | | | | | | | − 21 | |
| | | | | | | | | | | +12.09 | |
| | | | | | | | | | | + 45 | |
| −1.20 $\delta_2$ | | 3 2.16 | | 30 5.5 | | | | | | −9.00 | |
| −0.26 | | | | | 54 | | | | | 30 5.76 | |
| | +42.63 | 4 28.1 | 26.9 | 15.0 | 4 27.50 | .28 | 20.85 | 10 87 | 50 | 54 31 ~~24.05~~ | |
| | 1.62972 | 1.62972 | | | 54 32 | | ~~10.04~~ | −32.79 | | 38.08 | +11.37 |
| d | 9.91087 | 9.76360 | | | | − | ~~46.02~~ | | | − 47 | 14.25 |
| ((δ) − D) $\frac{d'}{100}$ | 1.66295n | 1.51568n | | | | | | | | − 63 | |
| | | | | | | | | | | +12.02 | |
| | | | | | | | | | | + 45 | |
| −1.20 $\delta_1$ | | 8 12.70 | | 31 42.7 | | | | | | −8.90 | |
| −0.72 | | | | | 54 | | | | | 31 43.43 | |
| | +37.79 | 4 32.1 | 31.9 | 4.0 | 4 32.00 | 28 | 16.35 | | 50 | 54 31 ~~25.45~~ | |
| | 1.57738 | 1.57738 | | | 54 32 | | 6.25 | 7.32 | | 38.26 | +11.57 |
| d | 9.91087 | 9.76360 | | | | − | ~~40.80~~ | −29.06 | | − 87 | 14.19 |
| ((δ) − D) $\frac{d'}{100}$ | 1.61061n | 1.46334n | | | | | | | | − 63 | |
| | | | | | | | | | | +12.12 | |
| | | | | | | | | | | + 45 | |
| −1.20 $\delta_2$ | | 8 12.55 | | 31 42.5 | | | | | | −9.20 | |
| −0.72 | | | | | 56 | | | | | 31 43.25 | |
| | +38.29 | 1 29.8 | 28.9 | 18.7 | 1 29.35 | 53 26 | 19.00 | | 55 | 53 29 ~~27.39~~ | |
| | 1.58809 | 1.58309 | | | | 30 | 8.19 | 9.02 | | 38.53 | +10.78 |
| d | 9.90518 | 9.77439 | | | | − | ~~40.80~~ | −30.19 | | − 39 | 13.66 |
| ((δ) − D) $\frac{d'}{100}$ | 1.61063n | 1.47984n | | | | | | | | − 21 | |
| | | | | | | | | | | +1098 | |
| | | | | | | | | | | + 40 | |
| −1.27 $\delta_1$ | | 9 21.67 | | 29 42.9 | | | | | | −8.80 | |
| −0.82 | | | | | 56 | | | | | 29 43.69 | |
| | +32.11 | 1 35.3 | 35.2 | .5 | 1 35.25 | 26 | 13.10 | | 55 | 53 29 ~~25.77~~ | |
| | 1.50664 | 1.50664 | | | 53 30 | | 3.00 | 4.07 | | 38.75 | +10.99 |
| d | 9.90518 | 9.77439 | | | | − | ~~34.21~~ | −25.32 | | − 27 | 13.61 |
| ((δ) − D) $\frac{d'}{100}$ | 1.53418n | 1.40339n | | | | | | | | − 22 | |
| | | | | | | | | | | +1408 | |
| | | | | | | | | | | + 40 | |
| −1.27 $\delta_2$ | | 9 21.46 | | 29 42.4 | | | | | | −9.10 | |
| −0.82 | | | | | | | | | | 29 43.26 | |

chk d

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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 | | | | | | | | | | | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| $a_1$ | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| $a_2$ | | | | | | | | | | | | |
| κ | | | | | | | | | | | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| $a_1$ | | | | | | | | | | | | |
| κ | | | | | | | | | | | | |
| $((\delta) - D)\frac{\kappa'}{100}$ | | | | | | | | | | | | |
| $a_2$ | | | | | | | | | | | | |

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