

About This Workbook

Moon Data

Enter Data into Yellow Cells

Date @ Greenwich
29-Jan-19

Near Limb Lunar Include OB correction Yes

MOON LL Moon's HP 56.2 min

UT of MOON LL Altitude Measurement 11:19:16

Height of Eye 10 ft. Dip Short Distance Yards

hs 40 deg. 31.8 min.
(+)

IC 0.2 min. 0.2 min.
Dip 3.1 min.
(±) Totals 0.0 min. 3.3 min.
Corr -3.3 min

Ha 40 deg. 28.5 min.
(+)

-R +PA +SD 58.12 min. 1.17 min.
Add'l Ref. 0.00 min. 0.00 min.
(±) Totals 58.12 min. 1.17 min.
Corr 56.96 min

Ho of Moon @ UT 11:19:16 41 deg. 25.5 min.

Hc of Moon @ UT 11:19:16 41 deg. 25.5 min.

Intercept is 0.0 n. mi. Toward a Zn of 152 deg.

Hc of Moon @ UT 11:19:16 41 deg. 25.5 min.

Rate of change in Hc of Moon 5.1 deg. / Hour

Lunar Distance

L 28 deg. 41.1 min. N

Lo 82 deg. 18.2 min. W

Atmospheric Pressure 1010 mb

Air Temperature 10 ° C

UT of Near Limb Lunar Distance Measurement 11:19:16

Measured Lunar Distance 24 deg. 47.8 min.

IC +Moon SD 0 deg. 15.29 min.

Apparent Lunar Distance 25 deg. 3.09 min.

Correction₂ 0 28.47 min.

"Cleared" Lunar Distance 25 deg. 31.56 min.

Geocentric Lunar Distance @ UT 11:19:16 25 deg. 31.50 min.

"Cleared" LD - GLD 0.06 min. "Calculated" UT 11:19:09

Error in "Calculated" UT 0:00:07 Slow

Geocentric Lunar Distance @ UT 11:19:09 25 deg. 31.56 min.

Geocentric Lunar Distance @ UT 11:00:00 25 deg. 40.77 min.

Geocentric Lunar Distance @ UT 12:00:00 25 deg. 11.90 min.

Rate of change in Geocentric Lunar Distance -28.87 min. / Hour

Change in "Calculated" UT per arc minute of change in "Cleared" Lunar Distance 0:02:05

Change in "Calculated" UT per 0.1 arc minute of change in "Cleared" Lunar Distance 0:00:12

Body Data

Click for Nautical Almanac data entry cells for GHA & Dec values required for Lunar Distance Calculations

View Navigational Star Chart

Body VENUS

PA for Venus 0.2 min

NA min

UT of VENUS Altitude Measurement 11:19:16

Height of Eye 10 ft. Dip Short Distance Yards

hs 22 deg. 49.8 min.
(+)

IC 0.0 min. 0.2 min.
Dip 3.1 min.
(±) Totals 0.0 min. 3.3 min.
Corr -3.3 min

Ha 22 deg. 46.5 min.
(+)

-R+PA 0.20 min. 2.36 min.
Add'l Ref. 0.00 min. 0.00 min.
(±) Totals 0.20 min. 2.36 min.
Corr -2.16 min

Ho of VENUS @ UT 11:19:16 22 deg. 44.3 min.

Hc of VENUS @ UT 11:19:16 22 deg. 44.3 min.

Intercept is 0.0 n. mi. Away from a Zn of 131 deg.

Hc of VENUS @ UT 11:19:16 22 deg. 44.3 min.

Rate of change in Hc of VENUS 9.5 deg. / Hour

Ho of Moon @ UT 11:19:16 41 deg. 25.5 min. GLD 25 deg. 31.51 min. UT 11:19:15 Ho of VENUS @ UT 11:19:16 22 deg. 44.3 min.

Crossing Angle of LOP's 21 deg. Fix from MOON LL - VENUS LOPs Fix L 28 deg. 41.1 min. N Rate of change in GLD -0.481 min. / Min.

Fix Lo 82 deg. 18.2 min. W Rate of change in GLD -0.008 min. / Sec.