

Vertical Lunar I.F. Reed 17 Oct 2022.

Lat = 10° N

Lon = 90° W.

Date 17 Oct 2022 UT 15:15:00

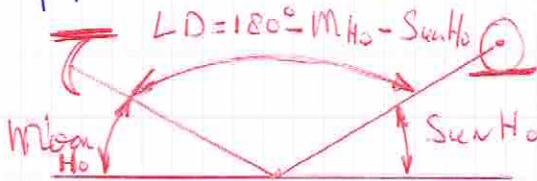
HE = 7ft ⇒ Dip 4' SLLT/Perm

LL Moon Alt 40° 52,3'

LL Sun Alt 47° 41,0'

LD_{obs} = 91° 02,6'

Opposite azimuths → Make drawing.



From almanac

Moon SD = 14,78'

HP = 54,24'

Sun SD = 16,05'

HP = 0,15'

Moon Alt 40° 52,3'
Dip 4,0

Ha. 40° 48,3'
1,12

SD 14,78

H 40° 32,40'
41,21

MH 40° 73,61

Moon H_c 41° 13,6'

Refr = 0,97 / tan(Ha)

HP_c = HP * cos H

Sun Alt 47° 41,0'

Dip 4,0
Ha 47° 37,0'

0,88
47° 36,12'

SD 16,05

HP 0,15

Sun H_c 47° 52,32'

Refr = 0,97 / tan HA

LD 179° 60'
MH_c 41° 13,6'

138° 46,4'

Sun H_c 47° 52,3'

LD_{obs} 91° 02,6'

LD from almanac

15:00 91° 01,0'

16:00 90° 33,9'

ΔLD₁ 0° 27,1'

15:00 90° 61,0'

LD_{obs} 90° 54,1'

ΔLD₂ 06,9'

$\frac{\Delta LD_2 \times 60}{\Delta LD_1} = \frac{6,9' \times 60}{27,1} = 15,276$

UT = 15:15:16

Herman D