

# LUNAR FORM

To "reconstruct" Full Lunar data from known position

Position  $S - 16^{\circ} 45' 33''$  Date: 1773 SEP 09 TT-UT = +16.4 s  
 $W + 151^{\circ} 29' 48'' / E - 208^{\circ} 32' 12''$  UTMANSK D Horizon: [175°-312°] and [326°-338°]  
 OBSERVED LUNAR DISTANCE UT: 18 H 04 M 52 S 1

## PUBLISHED VALUES:

Lunar Distance: 83° 29' 34" Body height: 27° 29' 20"  $\checkmark$  height: 046° 49' 30"  $\checkmark$

## COMPUTED VALUES: LUNAR DISTANCE UT: 18 H 04 M 52 S 1

\* Height of eye = +24' + Refraction  
 Body  $\odot$  height: 27° 09' 06" /  $P_3$ : 075° 0  
 height: 46° 46' 30" /  $A_3$ : 323° 1

\* Height of eye = +12' + Refraction  
 Body  $\odot$  height: 27° 07' 42" /  $A_3$ : 075° 0  
 height: 46° 45' 06" /  $A_3$ : 323° 1


\* Height of eye = +0' + Refraction  
 Body  $\odot$  height: 27° 04' 19" /  $A_3$ : 075° 0  
 height: 46° 41' 43" /  $A_3$ : 323° 1

\* Height of eye = +0' + NO refraction  
 Body  $\odot$  height: 27° 02' 32" /  $A_3$ : 075° 0  
 height: 46° 40' 51" /  $A_3$ : 323° 1

## REMARKS:

$\odot$  geocentric height 27° 08' 34" restricted horizon  
 $\odot$  geocentric height 47° 03' 22" restricted horizon  
 (Borka - Borka)

RESTRICTED HORIZON FOR THE SUN  
 MOON ALTITUDE  $\approx 41' / 61'$

by:  computation date: 01 APR 2010

(4)

Position  $S - 16^{\circ} 45' 33''$  Date 1773 SEP 11 TT-UT = +16.4 s  
 OTHMANSCHE LUNAR DISTANCE Horizon: [175°-312°] and [326°-338°]

## PUBLISHED VALUES:

Lunar Distance: 60° 26' 57" Body height: 40° 20' 00"  $\checkmark$  height: 52° 48' 40"  $\checkmark$

## COMPUTED VALUES LUNAR DISTANCE UT: 19 H 01 M 29 S 1

\* Height of eye = +24' + Refraction  
 Body  $\odot$  height: 40° 30' 24" /  $A_3$ : 068° 8  
 height: 52° 35' 55" /  $A_3$ : 335° 1

\* Height of eye = +12' + refraction  
 Body  $\odot$  height: 40° 29' 00" /  $A_3$ : 068° 8  
 height: 52° 34' 31" /  $A_3$ : 335° 1

\* Height of eye = +0' + refraction  
 Body  $\odot$  height: 40° 25' 37" /  $A_3$ : 068° 8  
 height: 52° 31' 07" /  $A_3$ : 335° 1

\* Height of eye = +0' + NO refraction  
 Body  $\odot$  height: 40° 24' 32" /  $A_3$ : 068° 8  
 height: 52° 30' 25" /  $A_3$ : 335° 1

## REMARKS:

$\odot$  geocentric height: 40° 40' 33" restricted horizon  
 $\odot$  geocentric height: 52° 49' 04" horizon on DR (Probably)

$\odot$ : RESTRICTED HORIZON

$\odot$ : ALTITUDE DIFFERENCE  $\approx 15'$

## LAST WORDS

### MY FELLOW PILOTS!

A good briefing is like a Mini-skirt:  
 long enough to cover the essentials  
 short enough to raise... attention

(1)

Computation date: 01 APR 2010