

$$\begin{array}{r} \odot H_s \quad 41^\circ 10' \\ \ominus \quad \quad \quad -3 \\ \hline 41 \quad 7 \\ \text{st} \quad \quad \quad 16 \\ \hline \end{array}$$

$$\begin{array}{r} \odot h' \quad 41 \quad 23 \\ R \quad \quad \quad -1.1 \\ \text{p} \quad \quad \quad 0.1 \\ \hline h \quad 41 \quad 24 \end{array}$$

$$\log \sec \quad 0.12476$$

$$\log \cos \quad 9.87513$$

$$\begin{array}{r} \overline{1} \quad 19 \quad 43 \\ \quad \quad \quad -3 \\ \hline 19 \quad 40 \\ \quad \quad \quad 16 \\ \hline \end{array}$$

$$\begin{array}{r} \oplus +1' \quad 19 \quad 24 \\ \quad \quad \quad -2.7 \\ \quad \quad \quad 55.9 \\ \hline \end{array}$$

$$\log \sec \quad 0.02539$$

$$+ \quad 20 \quad 17.2$$

$$\log \cos \quad 9.97219$$

$$\log \theta \quad 9.99747$$

$$\begin{array}{r} \odot \quad 88 \quad 36.6 \\ \ominus \quad \quad \quad 16 \\ \odot \quad \quad \quad 16.1 \\ \text{augm.} \quad \quad \quad 0.1 \\ \hline \end{array}$$

$$D' \quad 89 \quad 8.2$$

$$d' \quad 21 \quad 59.0$$

$$D'+d' \quad 111 \quad 7.2$$

$$D'-d' \quad 67 \quad 9.2$$

$$\log \text{hav} \quad 9.83261$$

$$\log \text{hav} \quad 9.48553$$

$$19.31814$$

$$\frac{1}{2}$$

$$9.65907$$

$$\log \theta \quad 9.99747$$

$$\log \text{hav} \quad 9.65654$$

$$\text{hav} \quad 0.45346$$

$$d \quad 21 \quad 6.8$$

$$\text{hav} \quad 0.03357$$

$$D \quad 88 \quad 30.8$$

$$\text{hav} \quad 0.48703$$

$$D_{16} \quad 88 \quad 35.2$$

$$\begin{array}{r} D_{17} \quad 88 \quad 4.4 \\ \quad \quad \quad 2.4 \\ \hline \quad \quad \quad 32.8 \end{array}$$

$$\frac{4.4}{32.8} 60^m = \left\{ \begin{array}{l} 0.64245 \\ 1.77815 \\ 2.42160 \\ 1.51587 \end{array} \right\} \Rightarrow 0.90573 = 8.05^m = 8^m 3^s$$

lunar UT $16^h 8^m 3^s$
 WT $\underline{4 \ 20}$
 WC 16 3 43 slow
 time sight WT $\underline{3 \ 13 \ 30}$
 UT 19 17 13

H_s $24^\circ 51'$
 θ_{horiz} $\underline{4.1}$
 $\underline{24 \ 46.9}$
 $\underline{14.2}$

h $25 \ 1.1$
 φ $44 \ 38$
 p $\underline{94 \ 11.7}$

log sec 0.14 775

log cos 0.00 117

103 50.8

s 81 55.4

log cos 9.14 767

s-h 52 54.0

log sin 9.92 312

t 48 3.8

log tan 9.21 971

LAT $15^h 12^m 15^s$
 EST $\underline{11 \ 5}$

LMT 15 1 10
 $\underline{3 \ 9 \ 10}$

LMT $\underline{11 \ 52 \ 0}$

UT $\underline{16 \ 8 \ 3}$
 $\underline{4^h 16^m 3^s}$

long $64^\circ 1' W$