

# USPS SIGHT REDUCTION FORM

SR 96a



Name \_\_\_\_\_

Squadron \_\_\_\_\_

## TIME

Date \_\_\_\_\_

WT \_\_\_\_\_

WE <sup>f-</sup> <sub>s+</sub> ( ) \_\_\_\_\_

ZT \_\_\_\_\_

ZD <sup>E-</sup> <sub>W+</sub> ( ) \_\_\_\_\_

UT \_\_\_\_\_

G Day/Mo \_\_\_\_\_

## ALMANAC --- LHA

SHA ★ \_\_\_\_\_

GHA \_\_\_\_\_

\_\_\_\_\_ hr \_\_\_\_\_

\_\_\_\_\_ m \_\_\_\_\_ s \_\_\_\_\_

v ( ) \_\_\_\_\_

v corr ( ) \_\_\_\_\_

Tot GHA \_\_\_\_\_

DR Lo ( ) \_\_\_\_\_ <sup>E</sup> <sub>W</sub>

LHA \_\_\_\_\_

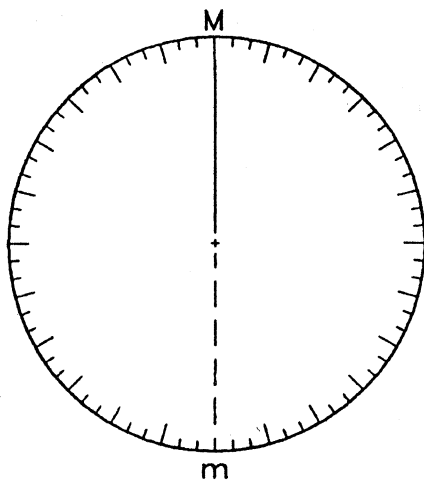
## SIGHT DATA

Sight No. \_\_\_\_\_

Body \_\_\_\_\_

DR L \_\_\_\_\_ <sup>N</sup> <sub>S</sub>

DR Lo \_\_\_\_\_ <sup>E</sup> <sub>W</sub>



## ALMANAC --- Dec

Dec \_\_\_\_\_ hr \_\_\_\_\_ <sup>N</sup> <sub>S</sub>

d ( ) \_\_\_\_\_

d corr ( ) \_\_\_\_\_

Dec \_\_\_\_\_ <sup>N</sup> <sub>S</sub>

## ALTITUDE

Ht of eye \_\_\_\_\_ ft

hs \_\_\_\_\_

(+) (-)

IC	_____	_____
Dip	<del>_____</del>	_____
Total	_____	_____
Corr	( ) _____	_____

ha \_\_\_\_\_

HP ( ) \_\_\_\_\_

(+) (-)

Main	_____	_____
Add'l ( ) , PI	_____	_____
UL ( ) -30.0'	<del>_____</del>	_____
Add'l Ref	_____	_____
Total	_____	_____
Corr	( ) _____	_____

Ho \_\_\_\_\_

## INTERCEPT and AZIMUTH by the LAW of COSINES METHOD

Enter Lat as positive.

If Lat/Dec contrary name enter Dec as negative.

Convert LHA, Lat, and Dec to 5 place rounded decimal degrees.

Round Zn to whole degrees.

(From above)

LHA \_\_\_\_\_

Lat \_\_\_\_\_ <sup>N</sup> <sub>S</sub>

Dec \_\_\_\_\_ <sup>N</sup> <sub>S</sub>

(Use for Law of Cosines)

-----> LHA \_\_\_\_\_

-----> Lat (+) \_\_\_\_\_

-----> Dec ( ) \_\_\_\_\_

$(\cos LHA \times \cos Lat \times \cos Dec) + (\sin Lat \times \sin Dec) = \sin Hc$  ---->

Hc \_\_\_\_\_

$(\sin Dec - (\sin Lat \times \sin Hc)) \div (\cos Lat \times \cos Hc) = \cos Z$  ----->

Z <sup>N</sup> <sub>S</sub> \_\_\_\_\_ <sup>E</sup> <sub>W</sub>

Hc \_\_\_\_\_

Ho \_\_\_\_\_ (From above)

a \_\_\_\_\_ nm

T  
A Ho > Hc....toward  
Hc > Ho....away

Zn \_\_\_\_\_