USPS® SIGHT REDUCTION FORM

SR 96a

Name _____

Squadron _____

TIME

Date _____

WT _____

WE f- s+ ( ) _____

ZT _____

ZD E- W+ ( ) _____

UT _____

G Day/Mo _____

ALMANAC --- LHA

SHA ★ _____ ° _____ . ____ '

GHA ____

____ hr _____ ° _____ . ____ '

____ m ___ s _____ ° _____ . ____ '

v ( ) ____ . ___ '

v corr ( ) ____ . ___ '

Tot GHA _____ ° _____ . ____ '

DR Lo ( ) _____ ° _____ . ____ ' E W

LHA _____ ° _____ . ____ '

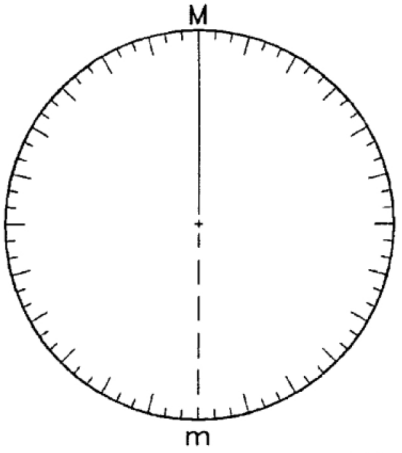
SIGHT DATA

Sight No. _____

Body _____

DR L _____ ° _____ . ____ ' N S

DR Lo _____ ° _____ . ____ ' E W



ALMANAC --- Dec

Dec____ hr _____ ° _____ . ____ ' N S

d ( ) ____ . ___ '

d corr ( ) ____ . ___ '

Dec _____ ° _____ . ____ ' N S

ALTITUDE

Ht of eye _____ . ____ ft

hs _____ ° _____ . ____ '

	(+)	(−)
IC	. '	. '
Dip		. '
Total	. '	. '
Corr	( ) . '	

ha _____ ° _____ . ____ '

HP ☾ _____ . ____ '

	(+)	(−)
Main	. '	. '
Add'l ☾ , Pl	. '	. '
UL ☾ −30.0'		. '
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) (Use for Law of Cosines)

LHA _____ ° _____ . ____ ' -------> LHA _____ . _____ °

Lat _____ ° _____ . ____ ' N S -------> Lat (+) _____ . _____ °

Dec _____ ° _____ . ____ ' N S -------> Dec ( ) _____ . _____ °

Sin^{-1} ((cos LHA x cos Lat x cos Dec) + (sin Lat x sin Dec)) = Hc _____ . _____ °

Cos^{-1} ((sin Dec – (sin Lat x sin Hc)) / (cos Lat x cos Hc)) = Z N S _____ . ____ ° E W

Hc _____ _____ . ____

Ho _____ ° _____ . ____ ' (From above)

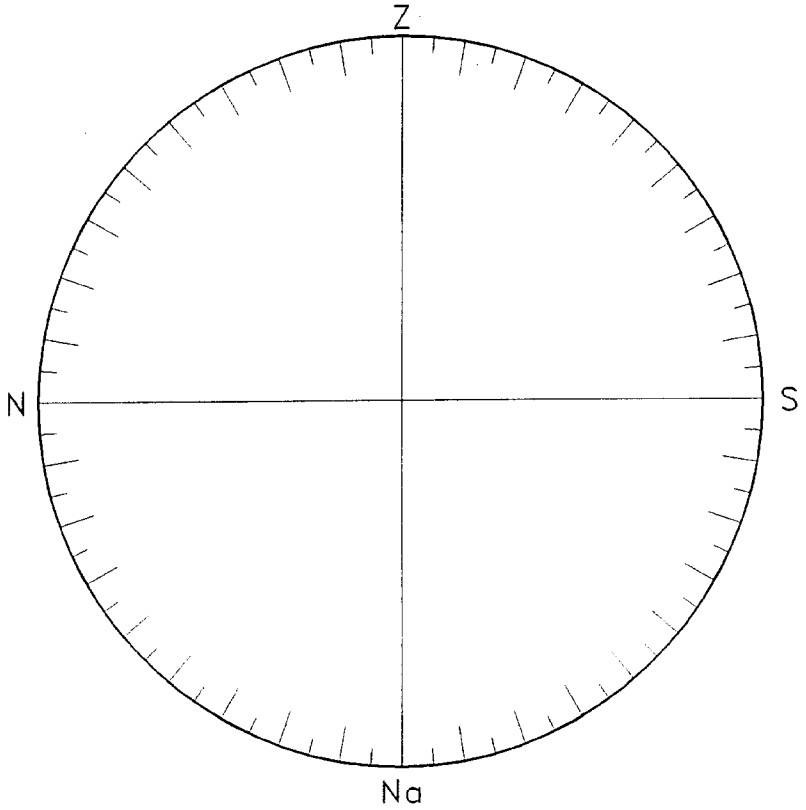
		If LHA <180°	If LHA >180°
DR Lat	N	Zn = 360° - Z	Zn = Z
	S	Zn = 180° + Z	Zn = 180° - Z

a _____ . ___ nm

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

Zn _____ °

PROJECTION ON THE PLANE OF MERIDIAN



DIP SHORT SIGHTS

State units used

HE _____

DISTANCE _____

DIP SHORT INTERPOLATION

Dist \ HE			

DIP SHORT ALTERNATE METHOD
Enter d in yards, h in feet
Ds = 0.0002052d + 1146 h/d

SHOW ANY REQUIRED COMPUTATIONS BELOW

INTERCEPT and AZIMUTH by the NAUTICAL ALMANAC SIGHT REDUCTION TABLES

Calculation of Asm Lo and Asm LHA

Tot GHA _____° _____′

ASM Lo ( ) _____° _____′ E W

ASM LHA _____°

Asm L _____° N S Asm LHA _____°

A _____° _____′ B ( ) _____° _____′ Z_1 ( ) _____.____°

Dec ( ) _____° _____′ N S

F ( ) _____° _____′

A _____° F _____°

H _____° _____′ P _____° Z_2 ( ) _____.____°

corr 1 ( ) _____′ (F′ _____, P° _____)

corr 2 ( ) _____′ (A′ _____, Z_2° _____)

Hc _____° _____′ **Z** N S _____.____° E W

Ho _____° _____′

T Ho > Hc....toward

a _____ **nm** A Hc > Ho....away **Zn** _____°

Advance/Retire AP

Time _____

Speed _____

Dist. _____