

USPS® SIGHT REDUCTION FORM

SR 96a



Name _____

Squadron _____

TIME

Date _____

WT _____

WE ^{f-}_{s+} () _____

ZT _____

ZD ^{E-}_{W+} () _____

UT _____

G Day/Mo _____

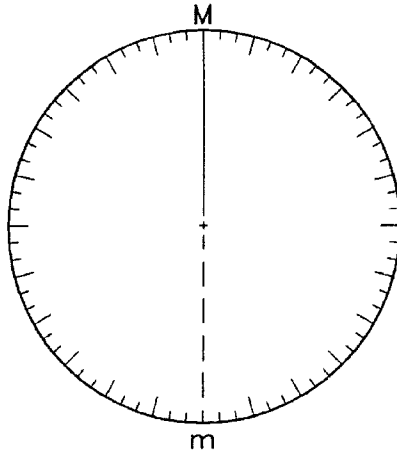
SIGHT DATA

Sight No. _____

Body _____

DR L _____ N
S

DR Lo _____ E
W



ALTITUDE

Ht of eye _____ ft

hs _____

(+) (-)

IC	_____	_____
Dip	_____	_____
Total	_____	_____
Corr	()	_____

ha _____

HP C _____

(+) (-)

Main	_____	_____
Add'l C, PI	_____	_____
UL C -30.0'	_____	_____
Add'l Ref	_____	_____
Total	_____	_____
Corr	()	_____

Ho _____

ALMANAC --- LHA

SHA ★ _____

GHA _____

_____ hr _____

_____ m _____ s _____

v () _____

v corr () _____

Tot GHA _____

DR Lo () _____ E
W

LHA _____

ALMANAC --- Dec

Dec _____ hr _____ N
S

d () _____

d corr () _____

Dec _____ N
S

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 _____ N
S

Dec _____ N
S

(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 N _____ E
S _____ W

Hc _____

Ho _____ (From above)

a _____ nm

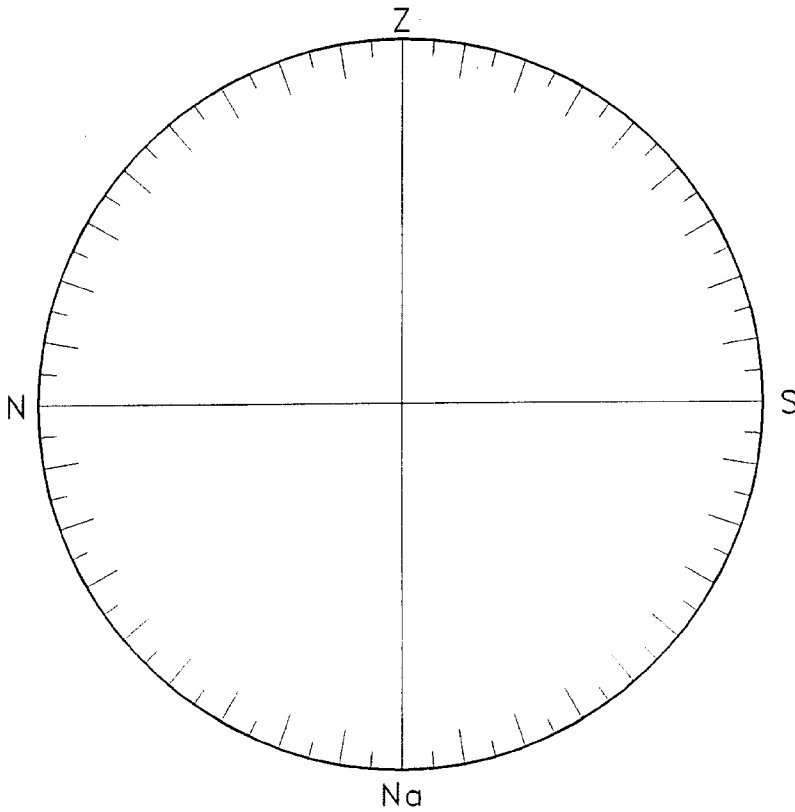
T Ho > Hc....toward
A Hc > Ho....away

Zn _____

PROJECTION ON THE PLANE OF MERIDIAN

DIP SHORT SIGHTS

State units used



HE _____

DISTANCE _____

DIP SHORT INTERPOLATION

HE			
Dist			

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

Asm L _____ ° N
S Asm LHA _____ °

Tot GHA _____ ° ' _____

A _____ ° ' B () _____ ° ' Z₁ () _____ °

ASM Lo () _____ ° ' E
W

Dec () _____ ° ' N
S

F () _____ ° ' _____

ASM LHA _____ °

A _____ ° F _____ °

H _____ ° ' P _____ ° Z₂ () _____ °

Advance/Retire AP

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

Time _____

corr 2 () _____ ' (A' _____, Z₂° _____)

Speed _____

Hc _____ ° ' Z N _____ ° E
S _____ ° W

Dist. _____

Ho _____ ° ' _____

T Ho > Hc...toward

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