

LOP

Ref.	LIGHTNING CN		
EPLat	13 °	13 '	(N/S)
EPLong	156 °	03 '	(E/W)

GDate	Y 2019	M AUG	D 25
DWT	Hr	m	s
DWE-F/+S	Hr	m	s
UT	Hr 16	m 14	s 42

Hs	0 °	0 '	
IE			-On/+Off
HOE 2 m	Dip	2' 4"	
Ha			
Refr		34' 5"	
		36' 9"	
PIA			+
SD		16'	(LI)/-UL
Ho		21'	-

Sextant Altitude Corrections Table

HOE m	for Dip	1	1.5	2.0	2.5	3.0	3.9	5.1	6.4	8.0	9.6
Correction	'	0.5	1.0	1.5	2.0	2.5	3	3.5	4.0	4.5	5.0
Hs °	for Refr	62	43	32	26	21	17.5	15	13	11.8	10.5

OT = 1600 + 0200 = 1800
 E 25th Aug
 ZWC 18h OT
 ZWC 16h UT sum
 ZWC 16h UT
 ZWC 4' 42" UT

Table 4 Almanac Lookup

04 °	25' (+)
0 °	3'
04 °	28'
57 °	30'
1 °	11' +
0 °	
0 °	
0 °	
0 °	
063 °	09'

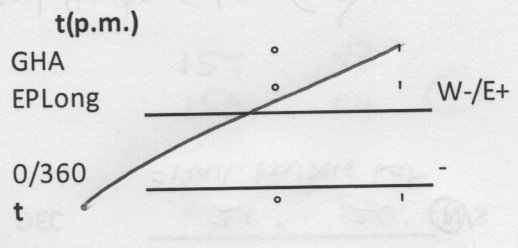
dec	10 °	57'	(-20')
correction 18h		15'	-
DEC	10 °	42'	(N/S)

gha
 *sha
 gha*
 0/360
 GHA

Sight Reduction (by Haversine Version of Doniol Formula)

t(a.m.) 359 ° 59' ten

EPLong	156 °	03' (W+/E-)
GHA	063 °	09' -
0/360	360 °	00' -
t	92 °	54'



ZD	EPLat	13 °	13'
~	DEC	10 °	42'
S		02 °	31' x
A			
M	EPLat	13 °	13'
+	DEC	10 °	42'
		23 °	55' y

Zn is (N/S) 079 (E/W) = 079°T

Use t for LHA on nomograph to get Z
 [If t > 90 THEN Use (180 - t)]

hv(x) = n	0005
hv(y) = p	0429 +
n+p=q	0434
1-q	9566
hav(t)	5253 *
	5025
n	0005 +
hv(ZD)	5030
ZD =	90 °
	20'

90°	89 °	60'
ZD	90 °	20' -
Hc		20' -
Ho		21' ~
Intercept		1'
Intercept	1'	T(A) 079°T