

Ref.	DAWN SLL		
EPLat	53 °	10.2'	(N/S)
EPLong	000 °	50.6'	(E/W)

GDate	Y 2021	M JUN	D 07
DWT	Hr	m	s
DWE-F/+S	Hr	m	s
UT	Hr 03	m 35	s 45

Table 4	M	D	Hr	
.a(Y)				+/-
Int(UTHr)				+
=OT				

	AIR	Almanac	diff
0330'	232 °	47:3 ( )	
0545"	1 °	26:3	
gha	234 °	13:6	+
*sha			+
gha*			
0/360			-
GHA	234 °	13:6	

HoE	2
Horizon	Hazy
Shades etc	
Sky	

Hs	00 °	00'
IE		-On/+Off
ArcC		+/-

HOE	2 m	Dip -	2:5 Short NM
Ha	-	00 °	02:5
Refr			34:5-

PIA	00 °	37.0	+
SD		15:7	+LL/-UL
Ho	-00 °	21:3	

			diff
dec	22 °	45.8'	⊗
corr			
DEC	22 °	45.8'	(N/S)

GPAlmNo1Mk4

**Sight Reduction ( by Haversine Version of Doniol Formula )**

t(a.m.)	359 °	5 9 ' ten	
EPLong		50:6 W+(E)	
GHA	359 °	09:4	
	234 °	13:6-	
0/360			
t	124 °	55:8	

ZD	EPLat	53 °	10:2
~	DEC	22 °	45:8
S C		30 °	24:4 <sup>x</sup>
A O	EPLat	53 °	10:2
M N	DEC	22 °	45:8
+		75 °	56:0 <sup>y</sup>

LOGS  
7425  
8956  
6381

hv(x)=n	0687
hv(y)=p	3785 +
n+p=q	4472
1-q	5528
hav(t)	7863 *
n	4346
hv(ZD)	0687 +
	5033
ZD =	90 ° 23'

t(p.m.)	
GHA	
EPLong	W-/E+
0/360	
t	

Zn	
Use t for LHA on Hanno lx graph to get Z	
[IF t > 90 THEN Use (180 - t)]	
Z	180 00 124 56- 55 04
Zn is	(N/S) 49 (E/W) = 049°T

90°	89 °	60'
ZD	90 °	23' -
Hc	- 00 °	23'
Ho	- 00 °	21' ~
Intercept		2'
Intercept	2'	(T/A) 049°T

ASTREN 105' T 049.1°T