

Doniol-Hanno Haversine Sight Reduction						
B	43 ° 19.0' N					
dec	23 ° 15.0' N			1.0000	89° 60'	
Name	Same	hv	- 0.3315	n+m	- 43° 59'	
LHA	312 ° 10.7'	a	.1643	0.6685	1-(n+m)	Hc 46° 1'
t	47° 49.3'	.1643	x 0.1643	a		
B + dec	66° 34.0'	.3012	0.10983455		a(1-(n+m))	
B - dec	20° 4.0'	.0304	0.1098			
Same name	Contrary			+ 0.0304	n	
hv (B-dec)	hv (B+dec)	n	.0304	0.1402	hv(ZD) = n+[1-(n+m)](a)	
hv (B+dec)	hv (B-dec)	m	.3012	43° 59'	ZD	

$C = \sin t * \cos \text{dec}$ **0.68**
 $Z = \text{asin}(C / \cos Hc)$ **78.6 °**
Zn **281 360-Z**
259 180+Z
101 180-Z

