Latitude at LAN

Step 1 Correct Hs to get Ho							
1-1	Record Maximum Sextant Height (Hs = peak height of the sun at noon), and mark limb		Lower Hs Upper		o	ı	
1-2	Record Index Correction (mark sign + if off, - if on)		IC	Off On	+ -	'	
1-3	Record eye height (HE) and Look up Dip Correction on the right-hand side of Table A2, front of the Almanac (correction depends on HE)	HE (f	Dip ft)		-		
1-4	Sum the above three numbers to get Apparent Height		Ha		o	ı	
1-5	Look up altitude correction on lefthand side of Table A2, front of the Almanac (correction depends on Ha, Limb, and month) (mark sign + for lower limb, - for upper limb)Alt corr.			+ -	r		
1-6	Sum the above two numbers to get Observed Height		Но		o	1	

Step 2 Determine the Zenith Distance				89 [°]	60.0
2-1	Record Ho from Step 1, above, and then subtract it from 90° to get the zenith distance	Но	-	0	1
2-2	Zenith distance	Z		0	I

nation	GMT date	e =		
GMT (hr) =		GMT (min) =		
Dec (ł	nr)	N S	0	1
d-value =	+ -	d-corr =	+ -	Ţ
Declinat	tion =	N S	0	ı
3-5 Apply the d-corr to the dec(hr) and record it above.				
	Dec (l d-value = Declinat	GMT (hr) = Dec (hr) d-value = + Declination =	GMT (hr) = GMT (min) = Dec (hr) N d-value = + - d-corr = Declination = N S S	GMT (hr) = GMT (min) = Dec (hr) N_{S} d-value = + Declination = N_{S} Note - Declination = N_{S}

Step 4 Find Latitude from Zenith Distance and Declination

Record DR Latitude to use as a guide, and then take the sum or difference of zenith distance and declination to find your true Latitude at LAN.

Declination or Zenith distance	0	ı	
Zenith distance or Declination	0	T	
Latitude =	o	T	