Sight-Reduction Worksheet for Bygrave's Method LoP = _

Section 4 - "Sight Reduction"						
AP:	LatAP	= ±° (N	/S)	GP: Dec =	±°	(N/S) (O)
	LonAP	= ±° (E	/W)	GHA =	0	
1.	LHA	= GHA + LonAP	=°	±° =	0	
	t	= - LHA	= ±°	if(LHA <	180°)	(1)
	t	= 360°- LHA	= ±°	if(LHA >	180°)	
2.	calcul	ator:	TAN Dec / COS	t = shift TAN =		(LatQ)
	LatQ	= ±				
3.	dLat	= LatAP - LatQ	= ±	± =	±	(3)
4.	Y	= 90° - dLat	= 90	° – ± =	±	
5.	calcul	ator: COS LatQ	* TAN t / COS	Y = shift TAN =		(Z)
	Z	=				
6.	calcul	ator:	COS Z * TAN	Y = shift TAN =		(Hc)
	Нс	=				
7.	Zc	= Z	=	(scheme 1)		(7)
	Zc	= 180° + Z	=	(scheme 2)		· · ·
	Zc	= 180° - Z	=	(scheme 3)		
	Zc	= 360° - Z	=	(scheme 4)		
Rema: (0)	rks and Ir Use the a negative in decima	structions ppropriate signs : for S and W. Fo al format instead	for Latitude, Lo or usage with an of degree and mi	ngitude and Declinat electronic calculat nutes notation.	ion: positive or, angle valu	for N and E, les are used
(1)	The meridian angle "t" is calculated from "LHA" according to the following rule: if LHA < 180° t = - LHA (GP is WEST of AP) if LHA > 180° t = 360° - LHA (GP is EAST of AP)					
(3)	The value of "dLat" must be calculated taking the correct signs for "LatAP" and "LatQ" into account. The resulting sign of "dLat" should be recorded correcly (see remark 0) and correctly used in step4 to calculate the complementary angle Y.					
(7) The true Azimuth "Zc" is obtained from "Z" according to one of the following first select in which range the value of t is, then, depending on the sign or dLat, select the correct calculations scheme for Zc:						cases: of LatAP
	[-180°: -	-90°] if LatAP is	positive: use	$Zc = 360^{\circ} - Z$	(scheme 4)	
	[-90°:	0°] if dLat is if dLat is	positive: use negative: use	$Z_{C} = 180^{\circ} + Z$ $Z_{C} = 360^{\circ} - Z$	(scheme 2) (scheme 4)	
	[0°: +	90°] if dLat is	positive: use	$Zc = 180^{\circ} - Z$ Zc = 7	(scheme 3)	
	[+90°:+1	.80°] if dLat is if dLat is	positive: use negative: use	$Zc = Z$ $Zc = 180^{\circ} - Z$	(scheme 1) (scheme 3)	