

PRODUCT		LATITUDE FROM ZENITH DISTANCE OF POLARIS For use of this form see, FM 3-34.331; the proponent agency is TRADOC.			
OBSERVER		UNIVERSAL DATE		STATION	
ASST. OBSERVER		RECORDER		TEMP.	BARO.
INST.		LEVEL VALUE d/2 =		REFRACTION FACTOR	POSITION NO.
	<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>0</i>	<i>"</i>
CHRON. TIME					
CHRON. CORR.			LEVEL CORR.		
LOCAL SID. TIME			REFRACTION CORR.	+	
R. A.	-		COLLIMATION		
HOUR ANGLE (t)			ζ		
<i>t</i>	<i>0</i>	<i>'</i>	<i>"</i>		
					90° 00 ' 00.00 "
LOG <i>p</i>			δ	-	
LOG COS <i>t</i>			P	<i>0</i>	<i>'</i> <i>"</i>
LOG I			P		
LOG 0.5	9.698 9700 - 10		LOG 1/3	9.522 88 - 10	
2 LOG <i>p</i>			3 LOG <i>p</i>		
2 LOG SIN <i>t</i>			LOG COS <i>t</i>		
LOG COT ζ			2 LOG SIN <i>t</i>		
LOG SIN 1 "	4.685 5749 - 10		2 LOG SIN 1"	9. 371 15 -20	
LOG II			LOG III		
I	<i>"</i>		LOG 1/8		
II	+	<i>"</i>	4 LOG <i>p</i>	9. 096 91 - 10	
III		<i>"</i>	4 LOG SIN <i>t</i>		
IV	+	<i>"</i>	3 LOG COT ζ		
SUM	<i>"</i>		3 LOG SIN 1 "		
SUM	<i>0</i>	<i>'</i> <i>"</i>	LOG IV	4. 056.72 - 20	
h (90 - ζ)					
φ _Δ					
$\phi_{\Delta} = h - I + II - III + IV$ SIGNS: I and III are PLUS in the first and fourth quadrants. II and IV are always PLUS.					
COMPUTED BY		DATE (YYYYMMDD)		CHECKED BY	
				DATE (YYYYMMDD)	