Table VII

Pyramid Noon Reflexions During the Winter Half of the Year

Astronomical	M = 1 =	Di	Inclination with	General characteristics and	Inclination with	General characteristics	Constant Inclination of Projection	Azimuth of Apex	General characteristics	Sun's observed altitude
points in the	Modern Calendar	Diagram Reference (Plates	Horizontal	variations betweene dates	Horizontal	and variations	of E. & W. Reflexions on	Ridge of Reflexion	and variations	
Solar Year	Dates	`	Horizontai	variations betweene dates	нопиопа	betweene dates				at Pyramid.
Solar Fear	Dates	# 5-8 inclusive)				betweene dates	E. and W. Vertical Plane.	E. of N. & W. of N.	betweene dates	
	22-23 Sept	Fig. A	16°-17½'	7 days later than Equinox, ridge of South reflexion	43°-42½'		13°-42½'	59°-16'- 42"	Southern Limit of E. & W. reflexions	60°
Autumnal Equinox	22-23 Sept	rig. A	upwards	lies in same plane as ridges of E. & W. reflexions	downwards	Reflexion gradually	downwards	37 -10 - 42	point due N.E. & N.W. respectively	00
			upwards	nes in same plane as flages of E. & W. Teriexions	downwards	shortening.	downwards		point due N.L. & N.W. Tespectively	
	14-15 Oct.	Fig. D	24°-26'		51°-51'	shortening.				
	1113 366.	116. D	upwards		Last Reflexion		13°-42½'	51°-2½'		51°-51'
			ap war as		First Shadow	1	downwards	01 2/2		
	1 Nov.	Fig. E	30°-27½'		51°- <u>51'</u>		uo wa warus			
		8. —								
			upwards	Reflexion gradually rising, but lower	40°-50'	Shadow gradually	13°-421⁄2'	45°-0'	Northern Limit of E. & W. reflexions point	45°-50'
			l '	than Sun'saltitude		lengthening	downwards		due N.E. & N. W. respectively. This Limit	
									is a Vertical Plane of Reflected Light.	
	8 Nov.		32°-35'		43°-42½'		13°-42½'	42°-53½'	· ·	43°-42½'
Beginning of Winter			upwards			With Shadow Ridge Line	downwards			
1/2 way Autumnal Equinox						& South Reflexion Ridge Line				
to Summer Solstice.	2-3 Dec.	Fig. F	38°-9'	Direct or Normal Reflexion from face	38°-9'	in same straight line N. to S.	13°-421⁄2'	37°-21'		38°-9'
			upwards			(Sun's Altitude Line)	downwards			
			<u> </u>	Reflexionsgradually rising but higher than Sun's altitude						
			Ancient		36° Ancient	Longest Noon Shadow	13°-42½'	Ancient		36° for Ancient
Winter Solstice	21-23 Dec.	Fig. G	40°-17½'	Highest Noon Reflexion of the Year		of the Year	downwards	35°-13'		Egyptian Time
			Modern		Modern		13°-42½'	Modern		36°-36½'
			40°-41'	Reflexions gradually falling but higher	36°- 36½'		downwards	35°-49½'		Modern Times
			1	than the Sun's altitude						
	11-12 Jan	Fig. F	38°-9'	Direct or Normal Reflexion from face	38°-9'	(As for 2-3 Dec.)	13°-421⁄2'	37°-21'		38°-9'
End of Winter	4 Feb.		32°-35'		43°-42½'		13°-42½'	42°-53½'		43°-42½'
	44.5.1	D' D	200 251/1	Reflexions gradually falling but lower	400 501		100 (0)//	450.01	(A. C. 4 . N)	450 501
	11 Feb.	Fig. E	30°-27½'	than the Sun's altitude	40°-50'	Shadow gradually	13°-42½'	45°-0'	(As for 1st Nov.)	45°-50'
			ĺ		51°-51'	shortening				
							120 421/1	510 01/1		51°-51'
	28 Feb.	Fig. D	24°-26'		Last Reflexion First Shadow	Ħ I	13°-42½'	51°-2½'		3131
	Zo reu.	rig. D	24 -20		51°-51'	Reflexion gradually				
					11 -31	lenthening				
			16°-17½'	7 days later than Equinox, ridge of South reflexion	43°-42½'	ienthennig	13°-42½'	59°-16'- 42"	Southern Limit of E. and W. reflexions	60°
Vernal Equinox	20-21 Mar.	Fig. A	upwards	lies in same plane as ridges of E. & W. reflexions	downwards		downwards	J) -10-42	point due N. E. & N. W. respectively	00
	J		upwarus	nes in same plane as riages of E. & W. Terrestolis	uowiiwaius		downwards		point due 14. D. & 14. W. Tespectivery	