

Table VII

Pyramid Noon Reflexions During the Winter Half of the Year

Astronomical points in the Solar Year	Modern Calendar Dates	Diagram Reference (Plates # 5-8 inclusive)	Inclination with Horizontal	General characteristics and variations between dates	Inclination with Horizontal	General characteristics and variations between dates	Constant Inclination of Projection of E. & W. Reflexions on E. and W. Vertical Plane.	Azimuth of Apex Ridge of Reflexion E. of N. & W. of N.	General characteristics and variations between dates	Sun's observed altitude at Pyramid.		
<i>Autumnal Equinox</i>	22-23 Sept	Fig. A	16°-17½' upwards	7 days later than Equinox, ridge of South reflexion lies in same plane as ridges of E. & W. reflexions	43°-42½' downwards	Reflexion gradually shortening.	13°-42½' downwards	59°-16'- 42"	<i>Southern Limit of E. & W. reflexions point due N.E. & N.W. respectively</i>	60°		
	14-15 Oct.	Fig. D	24°-26' upwards		51°-51' Last Reflexion		13°-42½' downwards	51°-2½'		51°-51'		
<i>Beginning of Winter</i> 1/2 way Autumnal Equinox to Summer Solstice.	1 Nov.	Fig. E	30°-27½' upwards	Reflexion gradually rising, but lower than Sun's altitude	40°-50'	Shadow gradually lengthening	13°-42½' downwards	45°-0'	Northern Limit of E. & W. reflexions point due N.E. & N. W. respectively. This Limit is a Vertical Plane of Reflected Light.	45°-50'		
	8 Nov.		32°-35' upwards		43°-42½'		13°-42½' downwards	42°-53½'		43°-42½'		
	2-3 Dec.	Fig. F	38°-9' upwards		Direct or Normal Reflexion from face		38°-9'	With Shadow Ridge Line & South Reflexion Ridge Line in same straight line N. to S. (Sun's Altitude Line)		13°-42½' downwards	37°-21'	38°-9'
	21-23 Dec.	Fig. G	Ancient 40°-17½'		Reflexions gradually rising but higher than Sun's altitude		36° Ancient	Longest Noon Shadow of the Year		13°-42½' downwards	Ancient 35°-13'	36° for Ancient Egyptian Time
Modern 40°-41'			Modern 36°- 36½'	13°-42½' downwards		Modern 35°-49½'	36°-36½' Modern Times					
<i>End of Winter</i>	11-12 Jan	Fig. F	38°-9'	Direct or Normal Reflexion from face	38°-9'	(As for 2-3 Dec.)	13°-42½'	37°-21'	38°-9'			
	4 Feb.		32°-35'	Reflexions gradually falling but lower than the Sun's altitude	43°-42½'	Shadow gradually shortening	13°-42½'	42°-53½'	43°-42½'			
	11 Feb.	Fig. E	30°-27½'		40°-50'		13°-42½'	45°-0'	(As for 1st Nov.)	45°-50'		
	28 Feb.	Fig. D	24°-26'		51°-51' Last Reflexion		13°-42½'	51°-2½'	51°-51'			
			51°-51' First Shadow		Reflexion gradually lengthening							
<i>Vernal Equinox</i>	20-21 Mar.	Fig. A	16°-17½' upwards	7 days later than Equinox, ridge of South reflexion lies in same plane as ridges of E. & W. reflexions	43°-42½' downwards		13°-42½' downwards	59°-16'- 42"	Southern Limit of E. and W. reflexions point due N. E. & N. W. respectively	60°		