

Table 4

PATH OF THE UMBRAL SHADOW
TOTAL SOLAR ECLIPSE OF 2008 AUGUST 01

Universal Time	Northern Limit		Southern Limit		Central Line		Sun Alt °	Path Width km	Central Durat. s
	Lat.	Long.	Lat.	Long.	Lat.	Long.			
Limits	68°44' N	105°22' W	67°49' N	101°02' W	68°17' N	103°08' W	0	206	01m30s
09:24	69°24' N	104°13' W	75°42' N	082°12' W	73°58' N	091°30' W	7	213	01m41s
09:27	77°09' N	087°54' W	78°57' N	068°51' W	78°18' N	078°27' W	12	217	01m49s
09:30	80°32' N	075°34' W	81°03' N	053°56' W	80°59' N	064°36' W	16	219	01m55s
09:33	82°52' N	060°02' W	82°18' N	036°31' W	82°45' N	047°27' W	18	221	02m00s
09:36	84°19' N	038°56' W	82°47' N	017°36' W	83°39' N	026°42' W	21	222	02m04s
09:39	84°47' N	013°27' W	82°36' N	000°14' E	83°43' N	005°13' W	22	223	02m08s
09:42	84°21' N	009°56' E	81°54' N	015°02' E	83°07' N	013°02' E	24	224	02m11s
09:45	83°19' N	026°57' E	80°53' N	026°28' E	82°05' N	026°43' E	26	224	02m14s
09:48	82°00' N	038°29' E	79°42' N	035°10' E	80°51' N	036°38' E	27	225	02m16s
09:51	80°34' N	046°30' E	78°26' N	041°53' E	79°30' N	043°58' E	28	226	02m18s
09:54	79°06' N	052°20' E	77°06' N	047°10' E	78°06' N	049°32' E	29	227	02m20s
09:57	77°37' N	056°48' E	75°46' N	051°27' E	76°41' N	053°56' E	30	228	02m22s
10:00	76°09' N	060°21' E	74°25' N	055°01' E	75°17' N	057°31' E	31	229	02m23s
10:03	74°41' N	063°16' E	73°04' N	058°01' E	73°53' N	060°30' E	32	230	02m24s
10:06	73°15' N	065°44' E	71°43' N	060°38' E	72°29' N	063°04' E	32	231	02m25s
10:09	71°49' N	067°53' E	70°23' N	062°55' E	71°07' N	065°18' E	33	232	02m26s
10:12	70°24' N	069°47' E	69°04' N	064°58' E	69°45' N	067°17' E	33	233	02m27s
10:15	69°01' N	071°30' E	67°45' N	066°49' E	68°23' N	069°05' E	33	234	02m27s
10:18	67°38' N	073°04' E	66°26' N	068°32' E	67°02' N	070°44' E	33	236	02m27s
10:21	66°15' N	074°32' E	65°08' N	070°06' E	65°42' N	072°15' E	34	237	02m27s
10:24	64°53' N	075°54' E	63°50' N	071°35' E	64°22' N	073°41' E	33	238	02m27s
10:27	63°32' N	077°12' E	62°32' N	073°00' E	63°03' N	075°03' E	33	240	02m27s
10:30	62°11' N	078°28' E	61°15' N	074°21' E	61°43' N	076°22' E	33	241	02m26s
10:33	60°50' N	079°41' E	59°57' N	075°39' E	60°24' N	077°38' E	33	243	02m25s
10:36	59°29' N	080°53' E	58°39' N	076°56' E	59°05' N	078°52' E	32	244	02m24s
10:39	58°07' N	082°05' E	57°21' N	078°12' E	57°45' N	080°06' E	32	245	02m23s
10:42	56°45' N	083°18' E	56°03' N	079°27' E	56°25' N	081°20' E	31	247	02m22s
10:45	55°23' N	084°31' E	54°44' N	080°43' E	55°04' N	082°35' E	30	248	02m20s
10:48	54°00' N	085°46' E	53°24' N	082°00' E	53°43' N	083°51' E	29	249	02m18s
10:51	52°36' N	087°04' E	52°04' N	083°18' E	52°21' N	085°09' E	28	250	02m16s
10:54	51°10' N	088°25' E	50°42' N	084°40' E	50°57' N	086°31' E	27	251	02m14s
10:57	49°43' N	089°52' E	49°19' N	086°05' E	49°31' N	087°57' E	26	252	02m12s
11:00	48°13' N	091°26' E	47°53' N	087°36' E	48°04' N	089°29' E	25	252	02m09s
11:03	46°39' N	093°08' E	46°25' N	089°14' E	46°33' N	091°09' E	23	251	02m06s
11:06	45°02' N	095°03' E	44°54' N	091°01' E	44°59' N	093°00' E	21	250	02m02s
11:09	43°18' N	097°16' E	43°18' N	093°02' E	43°19' N	095°06' E	19	247	01m58s
11:12	41°24' N	099°57' E	41°35' N	095°21' E	41°32' N	097°34' E	16	243	01m54s
11:15	39°12' N	103°31' E	39°42' N	098°12' E	39°30' N	100°43' E	13	236	01m48s
11:18	36°03' N	109°53' E	37°28' N	102°01' E	36°59' N	105°20' E	8	224	01m40s
Limits	34°15' N	114°35' E	32°45' N	113°14' E	33°30' N	113°54' E	0	200	01m28s

Fred Espenak, "Eclipses During 2008," **Observer's Handbook 2008**, Royal Astronomical Society of Canada, University of Toronto Press, Toronto, 2007.