

REPORT

INTERNATIONAL BOUNDARY COMMISSION

REVISION ON THE 1927 NORTH AMERICAN DATUM
OF THE BOUNDARY BETWEEN

CANADA AND THE UNITED STATES

ST. LAWRENCE RIVER TO LAKE SUPERIOR

SPECIAL REPORT NO. 7

1986

INTERNATIONAL BOUNDARY COMMISSION

JOINT REPORT

UPON THE MAINTENANCE OF THE BOUNDARY BETWEEN
THE UNITED STATES AND CANADA
UNDER THE PROVISIONS OF ARTICLE IV OF THE TREATY
SIGNED AT WASHINGTON, FEBRUARY 24, 1925

SPECIAL REPORT NO. 7

REVISED GEOGRAPHICAL POSITIONS OF BOUNDARY TURNING
POINTS, REFERENCE MONUMENTS AND MONUMENTS
THROUGH THE ST. LAWRENCE RIVER AND GREAT LAKES

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WASHINGTON

1986

OTTAWA

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INTRODUCTION

Article IV of the Treaty of Washington, February 24, 1925, provides for "the maintenance of an effective boundary line" between Canada and the United States. The article further stipulates that

"The said Commissioners shall submit to their respective governments from time to time, at least once in every calendar year, a joint report containing a statement of the inspections made, the monuments and buoys repaired, relocated, rebuilt, moved, and established, and the mileage and location of vistas opened, and shall submit with their reports, plats and tables certified and signed by the Commissioners, giving the locations and geodetic positions of all monuments moved and all additional monuments established within the year, and such other information as may be necessary to keep the boundary maps and records accurately revised."

This joint report is the seventh in a series of special publications that provide revised or supplementary information concerning the geographical positions of the boundary monuments, turning points, reference monuments and control stations that define or govern the location of the boundary between the United States and Canada.

REESTABLISHMENT UNDER THE TREATY OF 1908

Article IV of the Treaty of Washington, April 11, 1908, provided for the International Waterways Commission to ascertain and reestablish the international boundary through the St. Lawrence River and Great Lakes.

In accordance with this provision, the International Waterways Commission submitted to both governments in 1916 a "Report of the International Waterways Commission upon the International Boundary between the Dominion of Canada and the United States through the St. Lawrence River and Great Lakes as Ascertained and Re-established". A mathematical description and definition of this section of the international boundary is given on pages 31-114 of the report. The geodetic datum, or reference surface, to which the geographic positions of the boundary monuments, turning points and reference monuments are mathematically related is the old North American datum as it existed in the year 1916 when the report was submitted.

Article IV of the Treaty of Washington, February 24, 1925, assigned the responsibility of maintaining the international boundary through the St. Lawrence River and Great Lakes to the International Boundary Commission.

A few years after the submission by the International Waterways Commission of its report under Article IV of the 1908 treaty, the United States and Canada adopted a new geodetic datum. The North American Datum of 1927 became the new mathematical reference surface, and it superseded the old geodetic datum used in the computation of the latitude and longitudes of the boundary turning points, monuments and reference monuments that are published in the 1916 report.

The adoption of the 1927 North American Datum and the subsequent recomputation of geographical positions of the international boundary has no effect whatsoever on the physical location of the boundary itself. All boundary points, reference monuments and control points that were used to define the boundary prior to the introduction of the new datum remain unaltered from their original location, and they continue to define the boundary. The small differences between the new geographical positions, and their corresponding 1916 published values are entirely due to mathematical readjustment, and there is no resultant change in territorial sovereignty at any point on the boundary.

Special Report No. 7 contains a list of the geographical positions on the 1927 North American Datum of the boundary turning points, reference monuments and monuments along the international boundary through the St. Lawrence River and Great Lakes. Some of the information contained herein is published in the Commissioners' Special Reports Numbers 2 and 5. It is repeated here only for the convenience of the researcher.

INTERNATIONAL BOUNDARY COMMISSION - UNITED STATES AND CANADA
GEOGRAPHIC POSITIONS—1927 NORTH AMERICAN DATUM

District St. Lawrence River

State New York

Province Ontario

STATION	LATITUDE AND LONGITUDE			AZIMUTH (FROM SOUTH)			BACK AZIMUTH			TO STATION	DISTANCE (METRES)	Remarks
	°	'	"	°	'	"	°	'	"			
Andrew Ellicott Monument	44	59	55.960	248	29	33.0	68	29	37.7	Origin (Terminus)	155.7	
	74	39	48.320									
Turning Point No. 1	45	00	22.462	48	12	08.9	228	11	56.7	Ref. Mon. 2-59	509.4	
	74	40	15.210	176	15	58.0	356	15	57.3	Ref. Mon. 1	334.3	
				314	47	55.0	134	48	19.8	Mon. 774	1,079.9	
				324	14	51.8	144	15	10.8	Andrew Ellicott Mon.	1,008.0	
Mon. 774	44	59	57.810									
New York-Quebec, 1902 d.m.	74	39	40.223									
Ref. Mon. 1	45	00	33.267									
Ontario, 1910 d.m.	74	40	16.204									
Ref. Mon. 2-59	45	00	11.465									
Ontario, 1959 d.m.	74	40	32.548									
Turning Point No. 2	45	00	02.862	40	28	33.7	220	28	16.2	Ref. Mon. 3-59	838.0	
	74	40	25.098	148	25	59.3	328	25	54.1	Ref. Mon. 2-59	311.7	
				199	41	29.7	19	41	36.7	Turning Point No. 1	642.6	
				279	00	38.0	99	01	09.8	Mon. 774	995.2	
Ref. Mon. 3-59	44	59	42.212									
New York, 1959 d.m.	74	40	49.932									
Turning Point No. 3	44	59	58.012	109	22	25.6	289	21	37.9	Ref. Mon. 4	1,568.8	
	74	41	02.086	237	17	54.7	57	18	15.7	Ref. Mon. 2-59	768.8	
				259	31	29.0	79	31	55.2	Turning Point No. 2	823.8	
				331	22	13.2	151	22	21.9	Ref. Mon. 3-59	555.7	
Ref. Mon. 4	45	00	14.865									
Ontario, 1910 d.m.	74	42	09.663									
Turning Point No. 4	45	00	11.756	75	50	05.9	255	49	14.9	Ref. Mon. 5	1,630.4	
	74	42	09.510	178	00	01.4	358	00	01.3	Ref. Mon. 4	96.0	
				286	01	24.9	106	02	12.6	Turning Point No. 3	1,536.5	
				297	36	45.1	117	37	41.4	Ref. Mon. 3-59	1,967.2	
Ref. Mon. 5	44	59	58.824									
Ontario, 1910 d.m.	74	43	21.686									

¹No check on this position.

Abbreviations used: d. = described; m. = marked; n. = not; r. = recovered; l. = lost; p. = probably. T.P. = turning point Ref.Mon. = reference monument

INTERNATIONAL BOUNDARY COMMISSION - UNITED STATES AND CANADA
GEOGRAPHIC POSITIONS—1927 NORTH AMERICAN DATUM

District St. Lawrence River

State New York

Province Ontario

STATION	LATITUDE AND LONGITUDE	AZIMUTH (FROM SOUTH)	BACK AZIMUTH	TO STATION	DISTANCE (METRES)	Remarks
Turning Point No. 5	44 59 54.223	54 57 18.9	234 56 55.4	Ref. Mon. 6-59	892.3	
	74 43 19.761	163 27 29.2	343 27 27.9	Ref. Mon. 5	148.2	
		247 27 10.5	67 28 00.1	Ref. Mon. 4	1,662.3	
		250 36 47.2	70 37 36.9	Turning Point No. 4	1,631.1	
Ref. Mon. 6-59 Ontario, 1959	d.m. 44 59 37.624					
	74 43 53.110					
Turning Point No. 6	44 59 25.504	58 04 00.1	238 03 36.1	Ref. Mon. 7-59	875.5	
	74 43 52.729	178 43 16.4	358 43 16.2	Ref. Mon. 6-59	374.2	
		213 27 51.7	33 28 13.7	Ref. Mon. 5	1,233.0	
		219 09 43.3	39 10 06.6	Turning Point No. 5	1,143.5	
Ref. Mon. 7-59 New York, 1959	d.m. 44 59 10.501					
	74 44 26.646					
East Tablet, Cornwall Bridge 1960	d.m. 44 59 25.950	241 43 09.8	61 43 31.5	Ref. Mon. 6-59	760.7	
	74 44 23.692	271 09 32.1	91 09 53.9	Turning Point No. 6	678.4	
West Tablet, Cornwall Bridge 1960	d.m. 44 59 25.956	6 32 21.2	186 32 19.3	Ref. Mon. 7-59	480.2	
	74 44 24.148	111 01 09.1	291 00 21.2	Ref. Mon. 8	1,586.9	
		271 09 31.8	91 09 32.1	E. Tab., Cornwall Br.	9.99	
Ref. Mon. 8 Ontario, 1910	d.m. 44 59 44.389					
	74 45 31.774					
Turning Point No. 7	44 59 26.205	117 01 05.3	297 00 29.8	Ref. Mon. 8	1,235.9	
	74 44 41.510	271 09 19.4	91 09 31.8	W. Tab., Cornwall Br.	380.4	
		271 09 19.4	91 09 53.9	Turning Point No. 6	1,068.8	
		326 06 31.4	146 06 41.9	Ref. Mon. 7-59	584.0	
Turning Point No. 8	44 59 41.820	241 51 06.0	61 51 10.8	Ref. Mon. 8	168.1	
	74 45 38.541	291 05 34.9	111 06 15.2	Turning Point No. 7	1,339.0	
		301 32 15.3	121 33 06.1	Ref. Mon. 7-59	1,848.0	

¹No check on this position.

Abbreviations used: d. = described; m. = marked; n. = not; r. = recovered; l. = lost; p. = probably.

T.P. = turning point

Ref.Mon. = reference monument

INTERNATIONAL BOUNDARY COMMISSION -- UNITED STATES AND CANADA
GEOGRAPHIC POSITIONS--1927 NORTH AMERICAN DATUM

District St. Lawrence River

State New York

Province Ontario

STATION	LATITUDE AND LONGITUDE			AZIMUTH (FROM SOUTH)			BACK AZIMUTH			TO STATION	DISTANCE (METRES)	Remarks	
	°	'	"	°	'	"	°	'	"				
Turning Point No. 9	45	00	20.461	86	46	31.7	266	44	59.7	Ref. Mon. 10-59	2,853.7		
	74	45	48.562	97	24	19.4	277	23	06.4	Ref. Mon. 11-59	2,279.4		
				165	10	03.4	345	10	00.5	Ref. Mon. 9-59	359.0		
				349	34	21.0	169	34	28.1	Turning Point No. 8	1,212.8		
Ref. Mon. 9-59 Ontario, 1959	d.m.	45	00	31.677									
		74	45	52.749									
Ref. Mon. 10-59 New York, 1959	d.m.	45	00	15.241									
		74	47	58.656									
Ref. Mon. 11-59 Ontario, 1959	d.m.	45	00	29.965									
		74	47	31.777									
Turning Point No. 10	45	00	15.740	88	15	03.3	268	14	46.7	Ref. Mon. 10-59	504.3		
	74	47	35.641	190	54	28.9	10	54	31.6	Ref. Mon. 11-59	447.2		
				266	25	59.9	86	27	15.6	Turning Point No. 9	2,349.6		
S.E. Line Point-Moses- Saunders Dam 1959	d.m.	45	00	23.325	52	19	36.2	232	19	25.8	Ref. Mon. 10-59	408.33	
		74	47	43.899	232	19	36.2	52	19	44.8	Ref. Mon. 11-59	335.39	
				322	19	09.8	142	19	15.7	Turning Point No. 10	295.9		
N.W. Line Point-Moses- Saunders Dam 1959	d.m.	45	00	23.672	322	19	09.3	142	19	09.8	S.E. Line Point-M.S. Dam	13.524	
		74	47	44.276									
Turning Point No. 11	45	00	38.755	293	11	19.5	113	11	39.9	Ref. Mon. 11-59	689.0		
	74	48	00.698	322	18	58.0	142	19	09.3	N.W. Line Point-M.S. Dam	588.3		
				322	18	58.0	142	19	15.7	Turning Point No. 10	897.7		
				356	28	27.6	176	28	29.0	Ref. Mon. 10-59	727.3		
Turning Point No. 12	45	00	52.242	312	01	25.1	132	01	49.7	Ref. Mon. 11-59	1,027.2		
	74	48	06.620	342	41	53.1	162	41	57.3	Turning Point No. 11	436.1		
				351	19	03.0	171	19	08.6	Ref. Mon. 10-59	1,155.4		

*No check on this position.

Abbreviations used: d. = described; m. = marked; n. = not; r. = recovered; l. = lost; p. = probably.

T.P. = turning point

Ref.Mon. = reference monument

INTERNATIONAL BOUNDARY COMMISSION - UNITED STATES AND CANADA
GEOGRAPHIC POSITIONS—1927 NORTH AMERICAN DATUM

District St. Lawrence River

State New York

Province Ontario

STATION	LATITUDE AND LONGITUDE		AZIMUTH (FROM SOUTH)			BACK AZIMUTH			TO STATION	DISTANCE (METRES)	Remarks	
Turning Point No. 13	45	00	48.610	263	06	13.6	83	06	43.6	Turning Point No. 12	934.3	
	74	48	48.978	288	47	37.0	108	48	31.6	Ref. Mon. 11-59	1,785.9	
				313	03	47.7	133	04	23.3	Ref. Mon. 10-59	1,508.5	
Turning Point No. 14	45	00	41.518	94	36	18.1	274	35	35.8	Ref. Mon. 12-59	1,314.1	
	74	49	02.781	234	04	56.2	54	05	06.0	Turning Point No. 13	373.2	
				280	08	13.0	100	09	17.4	Ref. Mon. 11-59	2,024.5	
				300	00	20.3	120	01	05.7	Ref. Mon. 10-59	1,621.8	
Ref. Mon. 12-59 New York, 1959	d.m.	45	00	44.931								
		74	50	02.598								
Turning Point No. 15	45	00	56.961	56	39	07.1	236	38	48.9	Ref. Mon. 12-59	675.5	
	74	49	36.829	302	35	33.9	122	35	58.0	Ref. Mon. 14	885.0	
Turning Point No. 16	45	00	52.537	258	06	30.6	78	06	51.6	Turning Point No. 15	662.9	
	74	50	06.455	340	12	45.9	160	12	48.7	Ref. Mon. 12-59	249.5	
Turning Point No. 17	45	00	40.462	14	26	42.4	194	26	38.2	Ref. Mon. 14	524.0	
	74	50	32.079	236	23	59.3	56	24	17.4	Turning point No. 16	673.6	
				257	55	54.1	77	56	15.0	Ref. Mon. 12-59	660.2	
Ref. Mon. 14 New York, 1910	d.m.	45	00	24.023								
		74	50	38.048								
Turning Point No. 18	45	00	36.966	100	31	44.4	280	31	27.0	Ref. Mon. 13-59	550.1	
	74	50	47.253	252	00	23.4	72	00	34.1	Turning Point No. 17	349.4	
				333	13	36.5	153	13	43.0	Ref. Mon. 14	447.5	
Ref. Mon. 13-59 Ontario, 1959	d.m.	45	00	40.221								
		74	51	11.950								
Turning Point No. 19	45	00	15.987	43	44	52.8	223	44	44.5	Ref. Mon. 15	372.1	
	74	51	23.513	198	42	00.0	18	42	08.2	Ref. Mon. 13-59	789.8	
				230	47	50.2	50	48	15.8	Turning Point No. 18	1,024.7	
				256	00	20.1	76	00	52.2	Ref. Mon. 14	1,026.1	

¹No check on this position.

Abbreviations used: d. = described; m. = marked; n. = not; r. = recovered; l. = lost; p. = probably. T.P. = turning point Ref. Mon. = reference monument

INTERNATIONAL BOUNDARY COMMISSION -- UNITED STATES AND CANADA
GEOGRAPHIC POSITIONS--1927 NORTH AMERICAN DATUM

District St. Lawrence River

State New York

Province Ontario

STATION	LATITUDE AND LONGITUDE	AZIMUTH (FROM SOUTH)	BACK AZIMUTH	TO STATION	DISTANCE (METRES)	Remarks
	^b ^r ⁿ	° ' "	° ' "			
Ref. Mon. 15 d.m.	45 00 07.280					
	74 51 35.260					
Turning Point No. 20	45 00 16.229	270 50 35.0	90 50 51.4	Turning Point No. 19 Ref. Mon. 15	506.8 372.2	
	74 51 46.652	317 54 42.9	137 54 51.0			
Turning Point No. 21	45 00 01.493	213 05 03.2	33 05 12.8	Turning point No. 20 Ref. Mon. 15 Ref. Mon. 15A-59	542.9 574.4 370.3	
	74 52 00.184	251 52 36.3	71 52 53.9			
		320 39 52.5	140 40 00.0			
Ref. Mon. 15A-59 New York, 1959 d.m.	44 59 52.215					
	74 51 49.468					
Turning Point No. 22	45 00 05.002	67 48 34.6	247 48 16.8	Ref. Mon. 16-59 Turning Point No. 21 Ref. Mon. 15A-59	593.0 861.1 1,158.3	
	74 52 39.188	277 13 19.6	97 13 47.2			
		289 55 07.4	109 55 42.5			
Ref. Mon. 16-59 New York, 1959 d.m.	44 59 57.745					
	74 53 04.255					
Turning Point No. 23	44 59 59.714	259 34 37.6	79 35 06.3	Turning Point No. 22 Ref. Mon. 16-59	902.6 344.0	
	74 53 19.719	280 10 20.1	100 10 31.0			
Turning Point No. 24	44 59 33.047	142 01 17.2	322 01 06.9	Ref. Mon. 17-59 Turning Point No. 23 Ref. Mon. 16-59	522.6 1,289.3 1,533.9	
	74 54 05.024	230 19 06.4	50 19 38.4			
		240 11 21.4	60 12 04.3			
Ref. Mon. 17-59 Ontario, 1959 d.m.	44 59 46.392					
	74 54 19.703					
Turning Point No. 25	44 59 00.483	71 19 56.4	251 18 53.9	Ref. Mon. 19-59 Ref. Mon. 18-58 Ref. Mon. 17-59 Turning Point No. 24 Ref. Mon. 16-59	2,047.2 1,800.4 1,435.9 1,147.3 2,583.5	
	74 54 30.270	135 44 49.6	315 44 09.1			
		189 16 26.9	9 16 34.4			
		208 49 00.1	28 49 17.9			
		226 49 07.2	46 50 07.9			

!No check on this position.

Abbreviations used: d. = described; m. = marked; n. = not; r. = recovered; l. = lost; p. = probably.

T.P. = turning point

Ref.Mon. = reference monument

INTERNATIONAL BOUNDARY COMMISSION -- UNITED STATES AND CANADA
GEOGRAPHIC POSITIONS--1927 NORTH AMERICAN DATUM

District St. Lawrence River

State New York

Province Ontario

STATION	LATITUDE AND LONGITUDE			AZIMUTH (FROM SOUTH)			BACK AZIMUTH			TO STATION	DISTANCE (METRES)	Remarks
	°	'	"	°	'	"	°	'	"			
Ref. Mon. 18-58 Ontario, 1958	d.m.	44	59	42.254								
		74	55	27.624								
Ref. Mon. 19-59 New York, 1959	d.m.	44	58	39.247								
		74	55	58.786								
Turning Point No. 26		44	59	05.349	78	24	22.9	258	23	18.7	Ref. Mon. 21	2,032.5
		74	56	51.330	162	41	04.6	342	40	56.4	Ref. Mon. 20-59	863.6
					238	08	26.9	58	09	26.1	Ref. Mon. 18-58	2,158.7
					272	46	10.3	92	47	50.0	Turning Point No. 25	3,094.1
					304	59	12.9	124	59	50.1	Ref. Mon. 19-59	1,405.2
Ref. Mon. 20-59 Ontario, 1959	d.m.	44	59	32.058								
		74	57	03.061								
Ref. Mon. 21 New York, 1910	d.m.	44	58	52.109								
		74	58	22.203								
Turning Point No. 27		44	59	00.368	265	35	09.2	85	36	13.6	Turning Point No. 26	2,001.8
		74	58	22.431	358	52	39.0	178	52	39.2	Ref. Mon. 21	255.0
					63	20	41.1	243	19	26.2	Ref. Mon. 22-58	2,603.3
Ref. Mon. 22-58 Ontario, 1958	d.m.	44	58	22.521								
		75	00	08.606								
Turning Point No. 28		44	58	38.862	55	16	54.3	235	16	31.0	Ref. Mon. 22-58	885.6
		74	59	35.386	247	26	19.3	67	27	10.9	Turning Point No. 27	1,730.8
					255	41	10.4	75	42	02.2	Ref. Mon. 21	1,654.8
Turning Point No. 29		44	58	18.135	35	14	34.2	215	14	15.9	Ref. Mon. 23-58	992.3
		74	59	58.876	122	25	20.2	302	25	13.5	Ref. Mon. 22-58	252.6
					218	48	45.1	38	49	01.7	Turning Point No. 28	821.2
Ref. Mon. 23-58 Ontario, 1958	d.m.	44	57	51.879								
		75	00	25.004								
Turning Point No. 30		44	57	57.908	71	46	45.9	251	46	27.8	Ref. Mon. 23-58	595.1
		74	59	59.212	180	40	35.9	0	40	36.1	Turning Point No. 29	624.4

¹No check on this position.

Abbreviations used: d. = described; m. = marked; n. = not; r. = recovered; l. = lost; p. = probably.

T.P. = turning point

Ref. Mon. = reference monument

INTERNATIONAL BOUNDARY COMMISSION — CANADA AND UNITED STATES
GEOGRAPHIC POSITIONS—1927 NORTH AMERICAN DATUM

District St. Lawrence River

Province Ontario

State

New York

STATION	LATITUDE AND LONGITUDE			AZIMUTH (FROM SOUTH)			BACK AZIMUTH			TO STATION	DISTANCE (METRES)	Remarks
	O	I	#	O	I	#	O	I	#			
Turning Point No. 31	44	57	44.631	127	30	17.7	307	30	08.4	Ref. Mon. 23-58 Turning Point No. 30 Ref. Mon. 24-58	367.5 492.8 1,482.3	
	75	00	11.699	213	43	51.5	33	44	00.3			
				334	03	09.3	154	03	30.3			
Ref. Mon. 24-58 New York, 1958	d.m.	44	57	01.450								
		74	59	42.113								
Turning Point No. 32	44	57	30.075	67	41	42.7	247	40	01.9	Ref. Mon. 25-58 Ref. Mon. 23-58 Turning Point No. 31 Ref. Mon. 24-58	3,382.6 684.4 479.6 1,202.9	
	75	00	19.349	169	34	10.4	349	34	06.5			
				200	27	45.9	20	27	51.3			
				317	15	56.0	137	16	22.4			
Ref. Mon. 25-58 Ontario, 1958	d.m.	44	56	48.461								
		75	02	42.104								
Turning Point No. 33	44	56	47.695	21	05	36.2	201	05	21.9	Ref. Mon. 26-59 Ref. Mon. 25-58 Turning Point No. 32 Ref. Mon. 24-58 Ref. Mon. 27-78	1,238.1 1,419.4 2,153.2 2,562.1 2,534.9	
	75	01	37.368	90	57	40.4	270	56	54.7			
				232	34	40.3	52	35	35.4			
				260	26	54.0	80	28	15.5			
				50	29	08.8	230	28	05.9			
Ref. Mon. 26-59 New York, 1959	d.m.	44	56	10.274								
		75	01	57.691								
Ref. Mon. 27-78 New York, 1978	d.m.	44	55	55.436								
		75	03	06.550								
Turning Point No. 34	44	56	03.932	55	54	45.0	235	53	49.1	Ref. Mon. 29-59 Ref. Mon. 25-58 Turning Point No. 33 Ref. Mon. 27-78	2,096.1 1,827.4 2,950.8 717.7	
	75	03	37.018	221	12	36.9	41	13	15.7			
				242	44	27.9	62	45	52.4			
				291	25	47.0	111	26	08.4			
Ref. Mon. 29-59 New York, 1959	d.m.	44	55	25.866								
		75	04	56.175								

¹No check on this position.

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	°	'	"	°	'	"	°	'	"			
Turning Point No. 35	44	55	45.998	65	28	28.0	245	27	44.2	Ref. Mon. 29-59	1,496.7	
	75	03	54.087	162	40	05.7	342	39	51.8			
				214	03	37.1	34	03	49.2	Turning Point No. 34	668.3	
				254	22	49.8	74	23	23.2			
Ref. Mon. 28-59 = Gen. Chrysler Mon. Ontario, 1959	44	56	30.764									
	d.	75	04	13.759								
Turning Point No. 36	44	55	37.239	17	22	23.7	197	22	06.7	Ref. Mon. 31-58	1,774.6	
	75	05	48.376	148	39	05.4	328	38	49.4			
				231	27	26.8	51	28	33.6	Ref. Mon. 28-59=Chrysler Mon.	2,652.3	
				263	49	53.6	83	51	14.3			
			287	02	29.3	107	03	06.2	Ref. Mon. 29-59	1,197.5		
Ref. Mon. 30-58 Ontario, 1958	44	56	03.653									
	d.m.	75	06	11.032								
Ref. Mon. 31-58 New York, 1958	44	54	42.372									
	d.m.	75	06	12.533								
Turning Point No. 37	44	55	10.551	218	38	21.1	38	38	42.3	Turning Point No. 36	1,054.8	
	75	06	18.408	255	18	09.7	75	19	07.8			
				351	34	13.5	171	34	17.7	Ref. Mon. 31-58	879.3	
				185	38	09.9	5	38	15.1			
Turning Point No. 38	44	55	15.747	80	49	37.8	260	48	47.8	Ref. Mon. 32-58	1,576.2	
	75	07	04.525	218	25	07.3	38	25	45.1			
				279	00	24.1	99	00	56.7	Turning Point No. 37	1,024.1	
				312	05	17.0	132	05	53.8			
Ref. Mon. 32-58 Ontario, 1958	44	55	07.600									
	d.m.	75	08	15.469								

¹No check on this position.

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	°	'	"	°	'	"	°	'	"			
Turning Point No. 39	44	54	54.017	153	39	19.1	333	39	12.5	Ref. Mon. 32-58	467.9	
	75	08	06.000	243	32	39.8	63	33	23.2	Turning Point No. 38	1,506.0	
				278	12	21.8	98	13	42.0	Ref. Mon. 31-58	2,514.8	
Turning Point No. 40	44	53	48.827	44	15	15.8	224	14	56.3	Allision - U.S.L.S.	865.1	
	75	08	25.196	44	44	04.7	224	44	50.2	Ref. Mon. 33-78	918.8	
				119	08	04.2	299	07	28.0	Ref. Mon. 34-59	1,287.9	
				191	49	03.3	11	49	16.6	Turning Point No. 39	2,056.0	
Ref. Mon. 33-78 New York, 1958	d.m.	44	53	27.683								
		75	08	54.664								
Ref. Mon. 34-59 Ontario, 1959	d.m.	44	54	09.136								
		75	09	16.469								
Turning Point No. 41	44	53	36.591	220	10	47.8	40	11	15.1	Ref. Mon. 34-59	1,315.0	
	75	09	55.141	259	09	23.8	79	10	27.3	Turning Point No. 40	2,009.4	
				281	42	02.1	101	42	44.7	Ref. Mon. 33-78	1,355.3	
Turning Point No. 42	44	52	59.288	54	04	29.1	234	03	58.0	Ref. Mon. 36-59	1,191.8	
	75	11	21.196	139	07	10.5	319	06	55.9	Ref. Mon. 35-59	688.1	
				231	45	23.9	51	46	51.9	Ref. Mon. 34-59	3,484.2	
				238	37	07.6	58	38	08.3	Turning Point No. 41	2,211.9	
				254	44	19.0	74	46	02.4	Ref. Mon. 33-78	3,333.0	
Ref. Mon. 35-59 Ontario, 1959	d.m.	44	53	16.143								
		75	11	41.718								
Ref. Mon. 36-59 New York, 1959	d.m.	44	52	36.732								
		75	12	05.165								
Turning Point No. 43	44	52	57.453	40	33	56.2	220	33	38.7	Ref. Mon. 36-78	842.0	
	75	11	40.219	176	44	05.5	356	44	04.3	Ref. Mon. 35-59	577.8	
				262	16	25.6	82	16	39.0	Turning Point No. 42	421.3	

'No check on this position. Abbreviations used: d. = described; m. = marked; n. = not; r. = recovered; l. = lost; p. = probably T.P. = turning point Ref. Mon. = reference monument

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	°	'	"	°	'	"	°	'	"			
Turning Point No. 44	44	52	40.069	73	59	25.5	253	58	47.6	Ref. Mon. 37-59	1,223.0	
	75	12	11.656	210	32	24.8	30	32	45.8	Ref. Mon. 35-59	1,292.9	
				232	07	27.6	52	07	49.8	Turning Point No. 43	874.1	
				305	52	01.2	125	52	05.2	Ref. Mon. 36-78	175.8	
Ref. Mon. 37-59 New York, 1959	44	52	29.141									
	d.m. 75	13	05.209									
Turning Point No. 45	44	52	39.790	69	58	44.9	249	58	18.5	Ref. Mon. 38-78	877.9	
	75	13	07.401	239	09	57.4	59	10	57.7	Ref. Mon. 35-59	2,189.8	
				269	35	28.9	89	36	08.2	Turning Point No. 44	1,223.6	
				351	41	03.1	171	41	04.5	Ref. Mon. 37-59	332.3	
Ref. Mon. 38-78 Ontario, 1959	44	52	30.052									
	d.m. 75	13	44.978									
Turning Point No. 46	44	52	05.799	71	26	32.8	251	25	18.8	Ref. Mon. 39-59	2,427.8	
	75	13	42.890	176	29	48.6	356	29	47.2	Ref. Mon. 38-78	750.1	
				216	35	17.4	36	35	42.4	Turning Point No. 45	1,306.8	
				228	56	15.0	48	56	41.4	Ref. Mon. 37-59	1,096.9	
Ref. Mon. 39-59 Ontario, 1959	44	51	40.757									
	d.m. 75	15	27.719									
Turning Point No 47	44	52	01.562	63	32	39.9	243	31	58.4	Ref. Mon. 39-59	1,441.5	
	75	14	28.943	227	39	14.8	47	39	45.7	Ref. Mon. 38-78	1,305.7	
				262	37	27.5	82	38	00.0	Turning Point No. 46	1,019.4	
Turning Point No. 48	44	51	26.240	167	14	29.0	347	14	25.7	Ref. Mon. 39-59	459.4	
	75	15	23.100	227	28	23.9	47	29	02.1	Turning point No. 47	1,613.3	
Turning point No. 49	44	51	17.475	101	54	05.1	281	53	50.8	Ref. Mon. 40-59	544.9	
	75	16	07.111	230	16	22.5	50	16	50.2	Ref. Mon. 39-59	1,124.4	
				254	21	17.5	74	21	48.5	Turning Point No. 48	1,003.5	
Ref. Mon. 40-59 Ontario, 1959	44	51	21.118									
	d.m. 75	16	31.392									

¹No check on this position.

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	D	M	S	D	M	S	D	M	S			
Turning Point No. 50	44	50	53.744	82	50	22.1	262	49	51.0	Ref. Mon. 41-59 Ref. Mon. 40-59 Turning Point No. 49	1,068.2 1,147.2 1,500.2	
	75	17	06.733	222	33	44.3	42	34	12.0			
				240	45	58.4	60	46	40.4			
Ref. Mon. 41-59 Ontario, 1959	d.m.	44	50	49.436								
		75	17	54.992								
Turning Point No. 51	44	50	11.682	211	49	34.1	31	49	57.3	Ref. Mon. 41-59 Turning Point No. 50 Ref. Mon. 43-59 Ref. Mon. 42-59	1,371.7 2,205.9 657.4 194.2	
	75	18	27.930	233	56	02.0	53	56	59.3			
				286	45	42.8	106	46	03.0			
				355	02	47.5	175	02	48.0			
Ref. Mon. 42-59 Ontario, 1959	d.m.	44	50	05.414								
		75	18	27.167								
Ref. Mon. 43-59 New York, 1959	d.m.	44	50	05.539								
		75	17	59.271								
No. Line Tablet, Iroquois Dam 1959	d.m.	44	50	05.426	89	38	14.7	269	38	12.8	Ref. Mon. 42-59 Turning Point No. 51 Ref. Mon. 43-59	58.282 207.2 554.474
		75	18	24.514	158	45	48.7	338	45	46.3		
					269	38	14.7	89	38	32.5		
So. Line Tablet, Iroquois Dam 1959	d.m.	44	50	05.231	158	45	48.8	338	45	48.7	No. Line Tablet	6.447
		75	18	24.408								
Turning Point No. 52	44	49	35.141	155	43	18.5	335	43	04.9	Ref. Mon. 42-59 So. Line Tablet Turning Point No. 51 Ref. Mon. 43-59 Ref. Mon. 44-59	1,025.2 996.5 1,210.1 957.6 654.3	
	75	18	07.977	158	46	00.4	338	45	48.8			
				158	46	00.4	338	45	46.3			
				191	31	07.8	11	31	13.9			
				326	36	23.8	146	36	35.3			
Ref. Mon. 44-59 New York, 1959	d.m.	44	49	17.443								
		75	17	51.585								

¹No check on this position.

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Ref. Mon. = reference monument

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	°	'	"	°	'	"	°	'	"			
Turning Point No. 53	44	48	22.357	116	26	55.0	296	26	20.5	Ref. Mon. 46 Turning Point No. 52 Ref. Mon. 45-59	1,201.4	
	75	20	01.969	228	05	45.0	48	07	05.3		3,364.7	
				282	43	04.7	102	43	30.9		838.6	
Ref. Mon. 45-59 New York, 1959	d.m.	44	48	16.374								
		75	19	24.747								
Ref. Mon. 46 Ontario, 1911	d.m.	44	48	39.688								
		75	20	50.921								
Turning Point No. 54	44	48	32.350	136	17	47.2	316	17	40.3	Ref. Mon. 46 Turning Point No. 53	313.3	
	75	20	41.069	289	44	47.9	109	45	15.5		912.9	
Turning Point No. 55	44	47	15.747	19	10	21.5	199	10	10.9	Ref. Mon. 47-59 Turning Point No. 54	1,013.6	
	75	22	11.695	220	06	02.4	40	07	06.3		3,091.8	
Ref. Mon. 47-59 New York, 1959	d.m.	44	46	44.732								
		75	22	26.835								
Turning Point No. 56	44	46	58.513	35	33	37.5	215	33	27.8	Ref. Mon. 47-59 Ref Mon. 48-59 Turning Point No. 55	522.9	
	75	22	13.004	82	30	55.4	262	29	54.8		1,909.8	
				183	05	45.6	3	05	46.5		532.8	
Ref. Mon. 48-59 Ontario, 1959	d.m.	44	46	50.444								
		75	23	39.128								
Turning Point No. 57	44	46	46.293	105	07	10.9	285	06	55.8	Ref. Mon. 48-59 Turning Point No. 56 Ref. Mon. 47-59	491.5	
	75	23	17.548	255	06	25.1	75	07	10.6		1,468.3	
				272	28	08.4	92	28	44.2		1,116.0	
Turning Point No. 58	44	46	24.396	87	05	06.9	267	04	21.8	Ref. Mon. 50 Ref. Mon. 49-59 Ref. Mon. 48-59 Turning Point No. 57 Ref. Mon. 47-59	1,414.2	
	75	23	48.723	122	21	39.8	302	21	19.1		766.6	
				194	42	03.2	14	42	10.0		831.3	
				225	24	01.3	45	24	23.2		962.6	
				250	46	19.2	70	47	16.9		1,906.8	

*No check on this position.

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T.P. = turning point

Ref. Mon. = reference monument

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	d	m	ft	°	'	"	°	'	"			
Ref. Mon. 49-59 Ontario, 1969	d.m.	44	46	37.688								
		75	24	18.176								
Ref. Mon. 50 Ontario, 1911	d.m.	44	46	22.062								
		75	24	52.953								
Turning Point No. 59		44	46	19.629	146	00	01.6	326	00	00.0	Ref. Mon. 50	90.6
		75	24	50.649	232	01	00.6	52	01	23.5	Ref. Mon. 49-59	905.9
					238	49	28.5	58	50	18.9	Ref. Mon. 48-59	1,837.9
					263	49	36.6	83	50	20.2	Turning Point No. 58	1,369.6
Turning Point No. 60		44	45	21.738	68	43	49.4	248	43	20.5	Ref. Mon. 51-59	969.6
		75	25	26.346	203	42	45.7	23	43	10.8	Turning Point No. 59	1,951.9
Ref. Mon. 51-59 Ontario, 1959	d.m.	44	45	10.341								
		75	26	07.424								
N.E. Tablet, Ogdensburg Bridge to Johnson 1960	d.m.	44	43	59.124	226	37	29.1	46	38	55.5	Turning Point No. 60	3,714.1
		75	27	29.083								
John Line Tablet 1960	d.m.	44	43	59.121	226	37	29.1	46	37	29.1	N.E. Tablet-(Bridge)	0.14
		75	27	29.088	226	37	29.1	46	38	55.5	Turning Point No. 60	3,714.2
Chim Line Tablet 1960	d.m.	44	43	58.919	226	37	28.9	46	37	29.1	John Line Tablet	9.056
		75	27	29.387	226	37	28.9	46	38	55.5	Turning Point No. 60	3,723.3
S.W. Tablet, Ogdensburg Bridge to Johnson 1960	d.m.	44	43	58.905	226	37	28.9	46	37	28.9	Chim Line Tablet	0.65
		75	27	29.409	226	37	28.9	46	37	29.1	N.E. Tablet-(Bridge)	9.85
Turning Point No. 61		44	43	14.566	92	43	50.6	272	43	23.4	Ref. Mon. 52-59	952.3
		75	28	35.219	226	36	42.6	46	37	28.9	S.W. Tablet-(Bridge)	1,992.6
					226	36	42.6	46	37	28.9	Chim Line Tablet	1,993.3
					226	36	42.6	46	38	55.5	Turning Point No. 60	5,716.6

*No check on this position.

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	d	m	s	o	'	"	o	'	"			
Ref. Mon. 52-59 Ontario, 1959	d.m.	44	43	15.880								
		75	29	13.899								
Turning Point No. 62		44	42	19.065	219	12	52.3	39	13	38.1	Ref. Mon. 52-59	2,263.7
		75	30	18.928	233	06	08.0	53	07	21.0	Turning Point No. 61	2,854.2
					314	24	59.0	134	25	20.1	Ref. Mon. 53	923.3
Ref. Mon. 53 New York, 1911	d.m.	44	41	58.130								
		75	29	48.974								
Turning Point No. 63		44	37	07.167	50	15	43.5	230	13	56.5	Ref. Mon. 55 (153 I.W.C.)	4,372.9
		75	37	13.247	125	19	23.4	305	19	01.4	Ref. Mon. 54	846.9
					223	25	59.4	43	30	50.6	Turning Point No. 62	13,266.8
Ref. Mon. 54 Ontario, 1911	d.m.	44	37	23.029								
		75	37	44.590								
Ref. Mon. 55 (153 I.W.C.) (Murray C.H.S) Ontario, 1911	d.m.	44	35	36.576								
		75	39	45.700								
Turning Point No. 64		44	35	33.612	48	23	10.8	228	21	32.4	Ref. Mon. 56	4,138.2
		75	39	41.987	138	10	19.1	318	10	16.5	Ref. Mon. 55	122.8
					217	27	29.1	37	28	51.5	Ref. Mon. 54	4,255.5
					228	37	26.1	48	39	10.5	Turning Point No. 63	4,370.1
Ref. Mon. 56 Ontario, 1911	d.m.	44	34	04.555								
		75	42	02.195								
Turning Point No. 65		44	33	56.371	42	53	19.1	222	52	19.5	Ref. Mon. 57	2,749.8
		75	41	58.827	163	36	22.3	343	36	19.9	Ref. Mon. 56	263.3
					223	30	18.0	43	31	51.4	Ref. Mon. 55	4,265.4
					225	09	09.1	45	10	45.1	Turning Point No. 64	4,257.2
Ref. Mon. 57 Ontario, 1911	d.m.	44	32	51.093								
		75	43	23.605								

*No check on this position.

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	°	'	"	°	'	"	°	'	"			
Turning Point No. 66	44	32	52.540	77	51	47.1	257	51	40.5	Ref. Mon. 57 Ref. Mon. 56 Turning Point No. 65	212.4 2,732.5 2,578.6	
	75	43	14.197	215	33	11.4	35	34	02.0			
				220	09	59.0	40	10	52.0			
Turning Point No. 67	44	32	46.058	56	32	16.0	236	32	09.7	Ref. Mon. 58 Ref. Mon. 57 Turning Point No. 66	239.4 158.8 312.6	
	75	43	25.080	191	49	58.1	11	49	59.1			
				230	12	35.2	50	12	42.8			
Ref. Mon. 58 Ontario, 1911	d.m.	44	32	41.782								
		75	43	34.126								
Turning Point No. 68	44	32	37.624	181	53	29.1	1	53	29.2	Ref. Mon. 58 Ref. Mon. 57 Turning Point No. 67	128.4 478.3 330.7	
	75	43	34.318	209	37	53.4	29	38	00.8			
				218	04	20.6	38	04	27.0			
Turning Point No. 69	44	30	54.775	225	46	39.2	45	48	22.8	Turning Point No. 68 Ref. Mon. 59-50	4,553.0 1,002.4	
	75	46	02.120	279	22	32.5	99	23	03.8			
Ref. Mon. 59-50 New York, 1950	d.m.	44	30	49.482								
		75	45	17.345								
Turning Point No. 70	44	28	17.944	213	43	29.7	33	45	12.3	Turning Point No. 69 Ref. Mon. 60	5,821.4 698.3	
	75	48	28.457	248	57	45.0	68	58	05.7			
Ref. Mon. 60 New York, 1911	d.m.	44	28	26.064								
		75	47	58.969								
Turning Point No. 71	44	25	55.150	147	50	04.3	327	49	46.5	Ref. Mon. 61 Turning Point No. 70	1,055.1 4,542.3	
	75	49	18.127	193	59	11.7	13	59	46.5			
Ref. Mon. 61 Ontario, 1911	d.m.	44	26	24.085								
		75	49	43.526								
Turning Point No. 72	44	23	46.034	134	25	20.9	314	25	17.5	Ref. Mon. 62 Turning Point No. 71	151.2 5,552.9	
	75	52	12.899	224	07	03.8	44	09	06.1			
Ref. Mon. 62 Ontario, 1911	d.m.	44	23	49.463								
		75	52	17.778								

*No check on this position.

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Ref. Mon. = reference monument

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STATION	LATITUDE AND LONGITUDE	AZIMUTH (FROM SOUTH)	BACK AZIMUTH	TO STATION	DISTANCE (METRES)	Remarks
Turning Point No. 73	44 22 03.900	83 28 07.6	263 27 48.3	Ref. Mon. 64	616.2	
	75 54 47.334	171 39 42.8	351 39 42.0	Ref. Mon. 63	176.4	
		172 49 27.0	352 49 26.3	Ref. Mon. 63 ecc.	183.5	
		227 18 16.8	47 20 04.8	Turning Point No. 72	4,650.5	
Ref. Mon. 63 Ontario, 1911	d.m. 44 22 09.553					
	75 54 48.489					
Ref. Mon. 63 ecc. Ontario, 1940	d.m. 44 22 09.799					
	75 54 48.369					
Ref. Mon. 64 New York, 1911	d.m. 44 22 01.629					
	75 55 14.981					
Turning Point No. 74	44 22 07.328	263 36 15.7	83 36 37.2	Ref. Mon. 63 ecc.	685.1	
	75 55 19.120	264 12 48.4	84 13 09.8	Ref. Mon. 63	681.7	
		278 32 43.1	98 33 05.3	Turning Point No. 73	711.5	
		332 28 49.9	152 28 52.8	Ref. Mon. 64	198.3	
Turning Point No. 75	44 21 33.252	210 46 26.4	30 46 46.2	Turning Point No. 74	1,224.2	
	75 55 47.410	291 18 42.9	111 18 46.8	Ref. Mon. 65	133.3	
Ref. Mon. 65 New York, 1911	44 21 31.682					
	75 55 41.801					
Turning Point No. 76	44 21 16.616	206 03 30.7	26 03 33.7	Ref. Mon. 66	215.7	
	75 56 28.199	240 22 50.0	60 23 18.5	Turning Point No. 75	1,039.1	
Ref. Mon. 66 Ontario, 1911	d.m. 44 21 22.893					
	75 56 23.921					
Turning Point No. 77	44 20 56.133	4 36 23.6	184 36 23.4	Ref. Mon. 67	66.0	
	75 57 00.144	228 12 46.7	48 13 09.0	Turning Point No. 76	948.9	
Ref. Mon. 67 New York, 1911	d.m. 44 20 54.002					
	75 57 00.383					

*No check on this position.

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T.P.=turning point

Ref.Mon.=reference monument

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STATION	LATITUDE AND LONGITUDE			AZIMUTH (FROM SOUTH)			BACK AZIMUTH			TO STATION	DISTANCE (METRES)	Remarks
	°	'	"	°	'	"	°	'	"			
Turning Point No. 78	44	20	32.927	116	41	26.5	296	41	21.6	Ref. Mon. 68 Turning Point No. 77	175.8 1,781.8	
	75	58	13.800	246	17	24.4	66	18	15.9			
Ref. Mon. 68 Ontario, 1911	44	20	35.485							d.m.		
	75	58	20.890									
Turning Point No. 79	44	20	34.735	148	20	05.2	328	20	00.1	Ref. Mon. 69 Ref. Mon. 68 Turning Point No. 78	310.8 66.2 226.1	
	75	58	23.689	249	31	32.1	69	31	34.1			
				284	17	19.3	104	17	26.2			
Ref. Mon. 69 New York, 1911	44	20	43.306							d.m.		
	75	58	31.056									
Turning Point No. 80	44	20	45.376	323	00	40.5	143	00	47.8	Ref. Mon. 68 Turning Point No. 79 Ref. Mon. 69	382.2 368.9 64.1	
	75	58	31.271	332	55	06.3	152	55	11.6			
				355	44	14.1	175	44	14.3			
Turning Point No. 81	44	20	47.164	77	52	51.7	257	52	48.3	Ref. Mon. 70 Turning Point No. 80	110.3 278.2	
	75	58	43.582	281	26	21.5	101	26	47.3			
Ref. Mon. 70 Ontario, 1911	44	20	46.414							d.m.		
	75	58	48.449									
Turning Point No. 82	44	20	45.445	118	50	57.5	298	50	48.6	Ref. Mon. 71 Ref. Mon. 70 Turning Point No. 81	321.5 44.2 150.1	
	75	58	49.920	227	26	59.2	47	27	00.2			
				249	17	44.1	69	17	48.5			
Ref. Mon. 71 Ontario, 1911	44	20	50.470							d.m.		
	75	59	02.631									
Turning Point No. 83	44	20	50.663	87	38	31.9	267	38	27.3	Ref. Mon. 71 Ref. Mon. 70 Turning Point No. 82	144.8 214.3 211.4	
	75	58	56.098	307	44	25.9	127	44	31.2			
				319	38	40.1	139	38	44.4			
E. Tablet-1959-T.I. Bridge 1959	44	20	50.061	259	10	48.8	79	10	51.9	Turning Point No. 83	99.034	
	75	59	00.489									

*No check on this position.

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W. Tablet-1959-T.I. Bridge 1959 d.m.	44 20' 49.960	259° 10' 48.3	79° 10' 48.8	E.Tab.-1959-T.I. Bridge	16.630	
	75 59 01.227					
E. Tablet-1937-T.I. Bridge 1937 d.m.	44 20 49.875	136 38 10.4	316 38 09.8	Ref. Mon. 71	25.380	
	75 59 01.847	259 10 47.9	79 10 48.3	W.Tab.-1959-T.I. Bridge	13.993	
		259 10 47.9	79 10 51.9	Turning Point No. 83	129.657	
W. Tablet-1937-T.I. Bridge 1937 d.m.	44 20 49.800	165 31 29.0	345 31 28.8	Ref. Mon. 71	21.354	
	75 59 02.390	259 10 47.5	79 10 47.9	E.Tab.-1937-T.I. Bridge	12.238	
Turning Point No. 84	44 20 48.612	252 54 36.4	72 54 42.3	Ref. Mon. 71	195.2	
	75 59 11.054	259 10 41.4	79 10 47.5	W.Tab.-1937-T.I. Bridge	195.379	
		259 10 41.4	79 10 51.9	Turning Point No. 83	337.3	
Turning Point No. 85	44 20 49.741	83 43 32.8	263 43 27.2	Ref. Mon. 72 (T I.W.C.)	178.8	
	75 59 18.228	282 22 25.0	102 22 30.0	Turning Point No.84(TI.W.C)	162.7	
Ref. Mon. 72 (T-I.W.C.) New York, 1911 d.m.	44 20 49.108					
	75 59 26.250					
Turning Point No. 86	44 20 49.463	267 14 18.8	87 14 24.4	Turning Point No. 85	178.2	
	75 59 26.262	358 36 37.6	178 36 37.6	Ref. Mon. 72	11.0	
Turning Point No. 87	44 20 49.266	257 33 54.7	77 33 55.6	Turning Point No. 86	28.2	
	75 59 27.507	279 56 05.9	99 56 06.8	Ref. Mon. 72	28.3	
Turning Point No. 88	44 20 50.195	281 16 36.9	101 16 42.2	Ref. Mon. 72	171.6	
	75 59 33.846	281 32 30.6	101 32 35.0	Turning Point No. 87	143.3	
Turning Point No. 89	44 20 52.130	150 37 25.5	330 37 22.9	Ref. Mon. 73 (C I.W.C.)	165.2	
	76 00 05.133	274 55 23.8	94 55 45.7	Turning Point No. 88	695.6	
Ref. Mon. 73 (C-I.W.C.) Ontario, 1911 d.m.	44 20 56.793					
	76 00 08.791					

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Province Ontario

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	°	'	"	°	'	"	°	'	"			
Turning Point No. 90	44	20	38.937	220	23	04.5	40	23	19.3	Ref. Mon. 73 Turning Point No. 89 Ref. Mon. 74	723.6	
	76	00	29.957	233	28	31.3	53	28	48.7		684.2	
				347	48	34.1	167	48	34.7		92.2	
Ref. Mon. 74 New York, 1911	d.m.	44	20	36.017								
		76	00	29.078								
Turning Point No. 91	44	19	54.247	245	13	46.7	65	15	21.1	Turning Point No. 90 Ref. Mon. 75	3,293.9	
	76	02	44.978	328	23	06.0	148	23	08.1		126.0	
Ref. Mon. 75 New York, 1911	d.m.	44	19	50.772								
		76	02	41.998								
Turning Point No. 92	44	17	58.756	21	42	02.3	201	41	59.3	Ref. Mon. 76 Ref. Mon. 77 Turning Point No. 91	257.0	
	76	05	50.235	86	02	06.2	266	01	27.0		1,245.7	
				229	00	56.1	49	03	05.5		5,437.2	
Ref. Mon. 76 New York, 1911	d.m.	44	17	51.019								
		76	05	54.522								
Ref. Mon. 77 Ontario, 1911	d.m.	44	17	55.961								
		76	06	46.296								
Turning Point No. 93	44	17	52.878	34	06	27.7	214	06	15.7	Ref. Mon. 78 Ref. Mon. 77 Turning Point No. 92 Ref. Mon. 76	679.4	
	76	06	43.732	149	09	00.6	329	08	58.8		110.8	
				261	17	50.8	81	18	28.2		1,199.7	
				273	00	24.5	93	00	58.9		1,092.4	
Ref. Mon. 78 New York, 1911	d.m.	44	17	34.652								
		76	07	00.916								
Turning Point No. 94	44	17	41.538	92	12	19.5	272	11	48.6	Ref. Mon. 79 Ref. Mon. 77 Turning Point No. 93 Ref. Mon. 78	983.1	
	76	07	06.611	225	19	49.8	45	20	04.0		633.2	
				235	23	22.5	55	23	38.5		616.2	
				329	17	15.6	149	17	19.6		247.2	

*No check on this position.

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	°	'	"	°	'	"	°	'	"			
Ref. Mon. 79 New York, 1911	d.m.	44	17	42.763								
Turning Point No. 95		44	17	42.273	100	16	09.3	280	16	06.7	Ref. Mon. 79	84.7
		76	07	47.166	271	26	24.5	91	26	52.8	Turning Point No. 94	899.4
					282	54	55.0	102	55	27.3	Ref. Mon. 78	1,052.0
Turning Point No. 96		44	17	46.753	315	10	52.2	135	10	56.5	Turning Point No. 95	194.9
		76	07	53.364	336	17	33.8	156	17	35.5	Ref. Mon. 79	134.5
Turning Point No. 97		44	16	50.392	7	21	19.6	187	21	02.9	Ref. Mon. 81	4,183.4
		76	09	43.660	234	33	46.6	54	35	03.6	Turning Point No. 96	3,001.1
					272	07	19.5	92	07	40.2	Ref. Mon. 80	657.6
Ref. Mon. 80 New York, 1911	d.m.	44	16	49.602								
		76	09	14.024								
Ref. Mon. 81 Ontario, 1911	d.m.	44	14	35.972								
		76	10	07.798								
Turning Point No. 98		44	14	23.150	139	38	22.2	319	38	11.6	Ref. Mon. 81	519.4
		76	09	52.639	182	30	30.0	2	30	36.1	Turning Point No. 97	4,549.1
Turning Point No. 99		44	13	16.934	142	29	46.7	322	29	40.9	Ref. Mon. 82	302.9
		76	11	31.327	226	58	19.4	46	59	28.3	Turning Point No. 98	2,995.7
Ref. Mon. 82 Ontario, 1912	d.m.	44	13	24.720								
		76	11	39.636								
Turning Point No. 100		44	12	53.759	140	19	28.5	320	19	25.3	Ref. Mon. 83	161.1
		76	12	25.699	239	20	29.8	59	21	07.7	Turning Point No. 99	1,403.0
Ref. Mon. 83 Ontario, 1912	d.m.	44	12	57.777								
		76	12	30.333								

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STATION	LATITUDE AND LONGITUDE			AZIMUTH (FROM SOUTH)			BACK AZIMUTH			TO STATION	DISTANCE (METRES)	Remarks
	d	m	"	°	'	"	°	'	"			
Turning Point No. 101	44	12	13.690	177	06	22.7	357	06	22.3	Ref. Mon. 84	268.3	
	76	14	44.812	248	09	50.8	68	11	27.7	Turning Point No. 100	3,327.0	
Ref. Mon. 84 Ontario, 1912	d.m.	44	12	22.371								
		76	14	45.422								
Turning Point No. 102		44	12	13.504	85	09	23.0	265	08	25.2	Ref. Mon. 86	1,848.5
		76	17	13.142	176	14	56.3	356	14	55.8	Ref. Mon. 85	219.9
					269	53	08.2	89	54	51.6	Turning Point No. 101	3,293.5
Ref. Mon. 85 Ontario, 1912	d.m.	44	12	20.614								
		76	17	13.790								
Ref. Mon. 86 Ontario, 1912	d.m.	44	12	08.438								
		76	18	36.097								
Turning Point No. 103		44	11	56.365	212	43	08.6	32	43	16.1	Ref. Mon. 86	442.9
		76	18	46.879	250	05	09.7	70	06	14.5	Ref. Mon. 85	2,198.3
					255	43	52.4	75	44	57.7	Turning Point No. 102	2,147.6
Turning Point No. 104		44	08	03.390	140	03	06.6	320	03	01.4	Ref. Mon. 87	258.4
		76	21	11.353	204	02	29.8	24	04	10.5	Turning Point No. 103	7,874.6
Ref. Mon. 87 Ontario, 1912	d.m.	44	08	09.809								
		76	21	18.818								
Turning Point No. 105		44	05	38.428	157	03	54.9	337	03	51.6	Ref. Mon. 88	273.4
		76	26	21.283	236	58	43.7	57	02	19.4	Turning Point No. 104	8,217.0
Ref. Mon. 88 Ontario, 1912	d.m.	44	05	46.586								
		76	26	26.073								

¹No check on this position.

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STATION	LATITUDE AND LONGITUDE			AZIMUTH (FROM SOUTH)			BACK AZIMUTH			TO STATION	DISTANCE (METRES)	Remarks
Turning Point No. 106	43	37	51.847	209	05	14.1	29	20	06.5	Turning Point No. 105 Oswego Lighthouse Oswego Lighthouse U.S.L.S.	58,930.6	
	76	47	49.143	307	40	38.6	127	52	12.9		28,618.7	
				308	47	31.4	128	59	13.7		29,399.5	
Oswego Lighthouse-U.S.L.S. New York, 1875 L.	43	27	53.770									
	76	30	49.777									
Oswego Lighthouse New York, 1964 d.	43	28	23.820									
	76	31	01.383									
Turning Point No. 107	43	37	51.847	Due East			Due West			Turning Point No. 106 Thirtymile Point Light Thirtymile Point Light- house	152,823.5*	grad. distance 152,820.2108
	78	41	26.226	329	47	20.5	149	55	46.9		32,912.2	
				329	47	41.9	149	56	08.2		32,913.1	
Thirtymile Point Light New York, 1912 d.	43	22	29.586									
	78	29	10.602									
Thirtymile Point Light- house New York, 1972 d.m.	43	22	29.506									
	78	29	10.714									
Turning Point No. 108	43	27	01.524	243	52	29.2	64	13	34.6	Turning Point No. 107 Fort Niagara, Lighthouse	45,865.8	
	79	12	03.168	331	30	20.7	151	36	07.0		23,846.1	

*Arc of the Parallel

¹No check on this position.

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	°	'	"	°	'	"	°	'	"			
Turning Point No. 109	43	15	44.436	153	13	56.3	333	08	34.3	Turning Point No. 108	23,412.6	
	79	04	14.210	275	07	14.2	95	07	38.5	Fort Niagara, Lighthouse	802.3	
Fort Niagara, Lighthouse New York, 1941	43	15	42.114									d.
	79	03	38.779									
Turning Point No. 110	43	15	16.609	32	42	53.0	212	42	46.2	Ref. Mon. 1-41	412.3	
	79	03	22.202	126	12	37.6	306	12	01.9	Turning Point No. 109	1,453.8	
Ref. Mon. 1-41 Ontario, 1912	43	15	05.369									d.m.
	79	03	32.079									
Turning Point No. 111	43	14	55.316	133	42	26.4	313	42	16.5	Ref. Mon. 1-41	449.0	
	79	03	17.691	171	11	49.6	351	11	46.5	Turning Point No. 110	665.0	
Turning Point No. 112	43	14	20.523	184	48	25.1	4	48	27.8	Turning Point No. 111	1,077.5	
	79	03	21.694	280	05	16.0	100	05	25.9	Ref. Mon. 2-41	332.4	
Ref. Mon. 2-41 New York, 1912	43	14	18.636									d.m.
	79	03	07.189									
Turning Point No. 113	43	13	24.243	99	15	44.8	279	15	34.0	Ref. Mon. 3-41	360.7	
	79	03	11.820	172	41	25.5	352	41	18.7	Turning Point No. 112	1,751.0	
Ref. Mon. 3-41 Ontario, 1912	43	13	26.124									d.m.
	79	03	27.594									
Turning Point No. 114	43	12	36.932	191	03	29.1	11	03	37.8	Turning Point No. 113	1,487.7	
	79	03	24.463	266	28	25.9	86	28	37.3	Ref. Mon. 4-41	375.0	
Ref. Mon. 4-41 New York, 1912	43	12	37.679									d.m.
	79	03	07.883									
Turning Point No. 115	43	12	00.362	87	32	33.7	267	32	24.5	Ref. Mon. 5-41	303.6	
	79	02	56.155	150	28	51.2	330	28	31.8	Turning Point No. 114	1,297.0	
Ref. Mon. 5-41 Ontario, 1912	43	11	59.940									d.m.
	79	03	09.589									

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Turning Point No. 116	43	11	02.411	190	21	12.1	10	21	22.0	Turning Point No. 115 Ref. Mon. 6-41	1,818.0 427.3		
	79	03	10.626	282	10	48.5	102	11	01.2				
Ref. Mon. 6-41 New York, 1912	d.m.	43	10	59.489									
		79	02	52.130									
Turning Point No. 117		43	10	25.857	33	12	13.1	213	12	04.8	Ref. Mon. 7-41 Turning Point No. 116	498.8 1,129.0	
		79	03	12.759	182	26	42.2	2	26	43.7			
Ref. Mon. 7-41 Ontario, 1912	d.m.	43	10	12.333									
		79	03	24.851									
Turning Point No. 118		43	10	03.220	121	43	23.8	301	43	10.0	Ref. Mon. 7-41 Turning Point No. 117	534.9 721.8	
		79	03	04.710	165	24	45.1	345	24	39.6			
North Tablet, Lewiston- Queenston Bridge 1927	d.m.	43	09	44.573	136	33	02.4	316	32	37.8	Ref. Mon. 7-41 Turning Point No. 118 Ref. Mon. 8-41	1,180.1 678.0 156.2	
		79	02	48.922	148	12	38.7	328	12	27.9			
Ref. Mon. 8-41 New York, 1912	d.m.	43	09	44.521									
		79	02	42.008									
Turning Point No. 119		43	09	44.350	148	12	38.8	328	12	38.7	North Tablet, Lewiston- Queenston Bridge Turning Point No. 118 Ref. Mon. 8-41	8.10 685.1 152.0	
		79	02	48.733	148	12	38.8	328	12	27.9			
South Tablet, Lewiston- Queenston Bridge 1927	d.m.	43	09	44.342	136	38	08.2	316	37	43.5	Ref. Mon. 7-41 Turning Point No. 119 Ref. Mon. 8-41	1,188.2 0.23 152.0	
		79	02	48.731	169	11	40.5	349	11	40.5			
Turning Point No. 120		43	09	21.128	169	11	44.6	349	11	40.5	South Tablet, Lewiston- Queenston Bridge Turning Point No. 119 Ref. Mon. 9-41	729.3 729.6 309.0	
		79	02	42.679	169	11	44.6	349	11	40.5			
					317	59	59.0	138	00	05.3			

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T.P. = turning point

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INTERNATIONAL BOUNDARY COMMISSION - UNITED STATES AND CANADA
GEOGRAPHIC POSITIONS—1927 NORTH AMERICAN DATUM

District Niagara River

State New York

Province Ontario

STATION		LATITUDE AND LONGITUDE			AZIMUTH (FROM SOUTH)			BACK AZIMUTH			TO STATION	DISTANCE (METRES)	Remarks
		°	'	"	°	'	"	°	'	"			
Ref. Mon. 9-41		43	09	13.686									
New York, 1912	d.m.	79	02	33.527									
Turning Point No. 121		43	09	06.564	172	28	08.4	352	28	06.6	Turning Point No. 120	453.3	
		79	02	40.049	303	28	13.3	123	28	23.3	Ref. Mon. 10-41	397.3	
Ref. Mon. 10-41		43	08	59.463									
New York, 1918	d.m.	79	02	25.381									
Turning Point No. 122		43	08	57.194	158	36	26.9	338	36	23.5	Turning Point No. 121	310.6	
		79	02	35.036	252	12	17.6	72	12	24.2	Ref. Mon. 10-41	229.1	
Turning Point No. 123		43	08	36.989	176	04	56.5	356	04	55.2	Turning Point No. 122	625.0	
		79	02	33.146	247	10	26.7	67	10	32.3	Ref. Mon. 11-41	199.7	
Ref. Mon. 11-41		43	08	39.499									
New York, 1912	d.m.	79	02	25.002									
Turning Point No. 124		43	08	18.061	109	34	15.8	289	34	09.0	Ref. Mon. 12-41	237.6	
		79	02	38.094	190	50	14.3	10	50	17.7	Turning Point No. 123	594.7	
Ref. Mon. 12-41		43	08	20.640									
Ontario, 1912	d.m.	79	02	48.000									
Turning Point No. 125		43	08	06.333	232	35	43.5	52	35	57.8	Turning Point No. 124	595.8	
		79	02	59.037	349	54	16.8	169	54	18.3	Ref. Mon. 13-41	283.4	
Ref. Mon. 13-41		43	07	57.291									
New York, 1912	d.m.	79	02	56.839									
Turning Point No. 126		43	07	53.697	212	32	51.5	32	32	59.0	Turning Point No. 125	462.6	
		79	03	10.048	249	37	09.8	69	37	18.8	Ref. Mon. 13-41	318.5	
Turning Point No. 127		43	07	45.524	92	46	00.4	272	45	51.0	Ref. Mon. 14-41	310.2	
		79	03	15.717	206	55	50.4	26	55	54.3	Turning Point No. 126	282.9	
Ref. Mon. 14-41		43	07	46.009									
Ontario, 1912	d.m.	79	03	29.425									

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INTERNATIONAL BOUNDARY COMMISSION - UNITED STATES AND CANADA
GEOGRAPHIC POSITIONS--1927 NORTH AMERICAN DATUM

District Niagara River

State New York

Province Ontario

STATION	LATITUDE AND LONGITUDE			AZIMUTH (FROM SOUTH)			BACK AZIMUTH			TO STATION	DISTANCE (METRES)	Remarks
	°	'	"	°	'	"	°	'	"			
Turning Point No. 128	43	07	37.128	165	57	37.1	345	57	35.0	Ref. Mon. 14-41 Turning Point No. 127	282.5 354.1	
	79	03	26.393	222	57	46.3	42	57	53.6			
Turning Point No. 129	43	07	35.109	199	41	43.9	19	41	47.5	Ref. Mon. 14-41 Turning Point No. 128	357.3 198.9	
	79	03	34.752	251	44	55.7	71	45	01.4			
Turning Point No. 130	43	07	12.955	230	37	52.7	50	38	17.9	Turning Point No. 129 Ref. Mon. 15-41	1,077.9 290.7	
	79	04	11.616	267	41	33.7	87	41	42.5			
Ref. Mon. 15-41 New York, 1912	d.m.	43	07	13.334								
	d.m.	79	03	58.769								
Turning Point No. 131	43	06	57.726	129	11	01.1	309	10	43.7	Turning Point No. 130 Ref. Mon. 16-41	743.9 213.4	
	79	03	46.111	358	17	17.3	178	17	17.5			
Ref. Mon. 16-41 Ontario, 1912	d.m.	43	06	50.813								
	d.m.	79	03	45.829								
Turning Point No. 132	43	06	49.715	99	55	24.6	279	55	18.7	Ref. Mon. 16-41 Turning Point No. 131	196.6 318.0	
	79	03	37.262	141	01	04.1	321	00	58.1			
Turning Point No. 133	43	06	39.111	139	08	45.0	319	08	35.6	Ref. Mon. 16-41 Turning Point No. 132 Ref. Mon. 17-41	477.5 348.1 127.9	
	79	03	32.016	160	04	35.4	340	04	31.8			
				298	57	23.4	118	57	26.8			
Ref. Mon. 17-41 New York, 1912	d.m.	43	06	37.105								
	d.m.	79	03	27.068								
C.N.Rwy. Bridge, North Tablet 1929	43	06	33.340	147	51	44.4	327	51	34.2	Ref. Mon. 16-41 Turning Point No. 133 Ref. Mon. 17-41	636.8 180.0 144.2	
	d.m.	79	03	30.847	171	33	29.3	351	33			28.5
				216	19	48.9	36	19	51.5			
C.N.Rwy. Bridge, South Tablet 1929	43	06	32.866	148	23	08.1	328	22	57.8	Ref. Mon. 15-41 C.N.Rwy., North Tablet Ref. Mon. 17-41	650.4 14.78 155.1	
	d.m.	79	03	30.751	171	33	29.4	351	33			29.3
				212	28	53.5	32	28	56.0			

*No check on this position.

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T.P. = turning point

Ref.Mon. = reference monument

INTERNATIONAL BOUNDARY COMMISSION - UNITED STATES AND CANADA
GEOGRAPHIC POSITIONS—1927 NORTH AMERICAN DATUM

District: Niagara River

State: New York

Province: Ontario

STATION	LATITUDE AND LONGITUDE	AZIMUTH (FROM SOUTH)	BACK AZIMUTH	TO STATION	DISTANCE (METRES)	Remarks
Michigan Central RR. Bridge, North Tablet 1929	d.m. 43 06 30.854	150 23 02.3	330 22 51.8	Ref. Mon. 16-41	708.5	
	d.m. 79 03 30.343	171 33 29.6	351 33 29.4	C.N.Rwy., South Tablet	62.8	
		201 00 04.3	21 00 06.6	Ref. Mon. 17-41	206.6	
Michigan Central RR. Bridge, South Tablet 1929	d.m. 43 06 30.544	150 39 46.2	330 39 35.6	Ref. Mon. 16-41	717.5	
	d.m. 79 03 30.281	171 33 29.7	351 33 29.6	Mich. Central RR. Bridge, North Tablet	9.67	
		199 44 07.3	19 44 09.5	Ref. Mon. 17-41	215.1	
Turning Point No. 134	d.m. 43 06 25.347	171 33 30.4	351 33 29.7	Mich. Central RR. Bridge, South Tablet	162.1	
	d.m. 79 03 29.228	171 33 30.4	351 33 28.5	Turning Point No. 133	429.4	
		187 39 57.2	7 39 58.7	Ref. Mon. 17-41	366.1	
Turning Point No. 135	d.m. 43 05 28.630	113 41 05.9	293 41 00.5	Ref. Mon. 18-41	196.7	
	d.m. 79 03 59.186	201 09 26.6	21 09 47.1	Turning Point No. 134	1,876.8	
Ref. Mon. 18-41 Ontario, 1912	d.m. 43 05 31.190 79 04 07.149					
North Tablet, Rainbow Bridge 1941	d.m. 43 05 24.608	11 19 49.0	191 19 46.1	Ref. Mon. 19-41	499.2	
	d.m. 79 04 04.315	162 29 19.4	342 29 17.5	Ref. Mon. 18-41	213.0	
		223 03 45.7	43 03 49.2	Turning Point No. 135	169.9	
Ref. Mon. 19-41 New York, 1912	d.m. 43 05 08.745 79 04 08.652					
South Tablet, Rainbow Bridge 1941	d.m. 43 05 24.172	10 10 58.7	190 10 56.1	Ref. Mon. 19-41	483.7	
	d.m. 79 04 04.872	166 37 09.4	346 37 07.8	Ref. Mon. 18-41	222.6	
		223 03 45.4	43 03 45.7	North Tablet, Rainbow Bridge	18.41	
Turning Point No. 136	d.m. 43 05 18.544	223 03 40.5	43 03 45.4	South Tablet, Rainbow Bridge	237.7	
	d.m. 79 04 12.047	223 03 40.5	43 03 49.2	Turning Point No. 135	426.0	
		345 45 02.7	165 45 05.0	Ref. Mon. 19-41	312.0	

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INTERNATIONAL BOUNDARY COMMISSION - UNITED STATES AND CANADA
GEOGRAPHIC POSITIONS—1927 NORTH AMERICAN DATUM

District Niagara River

State New York

Province Ontario

STATION	LATITUDE AND LONGITUDE			AZIMUTH (FROM SOUTH)			BACK AZIMUTH			TO STATION	DISTANCE (METRES)	Remarks
	°	'	"	°	'	"	°	'	"			
Turning Point No. 137	43	04	53.628	39	58	17.2	219	58	09.8	Ref. Mon. 20-41 Turning Point No. 136 Ref. Mon. 21-41	378.6 893.4 365.4	
	79	04	32.156	210	36	18.0	30	36	31.7			
				313	45	12.0	133	45	19.9			
Ref. Mon. 20-41 Ontario, 1912	d.m.	43	04	44.226								
		79	04	42.906								
Turning Point No. 138	43	04	40.060	110	18	38.9	290	18	28.4	Ref. Mon. 20-41 Turning Point No. 137 Ref. Mon. 21-41	370.4 431.4 230.4	
	79	04	27.550	166	01	33.9	346	01	30.8			
				223	54	34.4	43	54	39.2			
Ref. Mon. 21-41 New York, 1912	d.m.	43	04	45.438								
		79	04	20.488								
Turning Point No. 139	43	03	57.103	103	44	23.0	283	41	39.1	Turning Point No. 138 Ref. Mon. 22-41	5,590.3 702.9	
	79	00	27.506	356	27	16.0	176	27	17.3			
Ref. Mon. 22-41 Ontario, 1912	d.m.	43	03	34.368								
		79	00	25.585								
Turning Point No. 140	43	03	21.365	150	11	31.3	330	11	12.2	Turning Point No. 139 Ref. Mon. 23-41	1,271.0 248.3	
	78	59	59.582	282	14	00.8	102	14	08.1			
Ref. Mon. 23-41 New York, 1912	d.m.	43	03	19.660								
		78	59	48.860								
Turning Point No. 141	43	02	49.876	115	40	34.2	295	40	23.1	Ref. Mon. 24-41 Turning Point No. 140	407.5 1,075.5	
	79	00	19.950	205	22	37.3	25	22	51.2			
Ref. Mon. 24-41 Ontario, 1912	d.m.	43	02	55.597								
		79	00	36.176								

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INTERNATIONAL BOUNDARY COMMISSION - UNITED STATES AND CANADA
GEOGRAPHIC POSITIONS—1927 NORTH AMERICAN DATUM

District Niagara River

State New York

Province Ontario

STATION	LATITUDE AND LONGITUDE	AZIMUTH (FROM SOUTH)	BACK AZIMUTH	TO STATION	DISTANCE (METRES)	Remarks
Turning Point No. 142	43 01 44.773 79 00 43.440	194 49 21.4 313 56 45.9	14 49 37.4 133 56 49.6	Turning Point No. 141 Ref. Mon. 25-41	2,078.2 169.5	
Ref. Mon. 25-41 New York, 1941	d.m. 43 01 40.962 79 00 38.051					
Turning Point No. 143	43 00 58.433 79 01 25.195	85 29 19.0 213 28 02.3	265 28 59.2 33 28 30.8	Ref. Mon. 26-41 Turning Point No. 142	660.7 1,714.2	
Ref. Mon. 26-41 Ontario, 1912	d.m. 43 00 56.748 79 01 54.279					
Turning Point No. 144	42 59 41.157 79 01 13.519	173 40 23.2 250 09 00.2	353 40 15.2 70 09 06.4	Turning Point No. 143 Ref. Mon. 27-41	2,399.3 218.0	
Ref. Mon. 27-41 New York, 1912	d.m. 42 59 43.556 79 01 04.466					
Turning Point No. 145	42 59 06.836 79 00 42.854	43 36 38.0 146 44 26.2	223 36 15.9 326 44 05.3	Ref. Mon. 28-41 Turning Point No. 144	1,064.8 1,266.6	
Ref. Mon. 28-41 Ontario, 1912	d.m. 42 58 41.852 79 01 15.266					
Turning Point No. 146	42 58 07.407 78 58 30.922	121 32 21.5 248 22 31.0	301 30 51.6 68 22 35.9	Turning Point No. 145 Ref. Mon. 29-41	3,507.2 173.8	
Ref. Mon. 29-41 New York, 1912	d.m. 42 58 09.483 78 58 23.791					
Turning Point No. 147	42 57 28.058 78 57 43.179	15 48 34.4 138 17 58.6	195 48 26.8 318 17 26.1	Ref. Mon. 30-41 Turning Point No. 146	922.7 1,626.4	
Ref. Mon. 30-41 Ontario, 1912	d.m. 42 56 59.288 78 57 54.268					

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INTERNATIONAL BOUNDARY COMMISSION - UNITED STATES AND CANADA
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District Niagara River

State New York

Province Ontario

STATION	LATITUDE AND LONGITUDE			AZIMUTH (FROM SOUTH)			BACK AZIMUTH			TO STATION	DISTANCE (METRES)	Remarks	
	°	'	"	°	'	"	°	'	"				
Turning Point No. 148	42	57	21.455	8	14	02.1	188	13	58.2	Ref. Mon. 31-41 Turning Point No. 147	905.0 2,376.2		
	78	55	58.734	94	55	45.8	274	54	34.6				
Ref. Mon. 31-41 Ontario, 1912	d.m.	42	56	52.431									
		78	56	04.451									
Turning Point No. 149	42	56	49.278	47	28	26.1	227	28	08.7	Ref. Mon. 32-41 Turning Point No. 148	785.3 1,484.2		
	78	55	10.073	131	59	50.4	311	59	17.2				
Ref. Mon. 32-41 Ontario, 1912	d.m.	42	56	32.075									
		78	55	35.601									
Turning Point No. 150	42	56	01.124	11	38	52.7	191	38	45.5	Ref. Mon. 33-41 Ref. Mon. 32-41 Turning Point No. 149	1,188.4 1,673.2 1,685.3		
	78	54	35.008	124	48	44.5	304	48	03.2				
Ref. Mon. 33-41 Ontario, 1941	d.m.	42	55	23.404									
		78	54	45.588									
International Rwy. Bridge, center of swing span 1927	d.n.m.	42	55	45.981	165	47	56.1	345	47	52.5	Turning Point No. 150	482.0	
		78	54	29.793									
Turning Point No. 151	42	55	25.323	83	29	58.4	263	29	42.8	Ref. Mon. 33-41 Turning Point No. 150 International Rwy. Bridge, center of swing span	522.9 1,139.6 657.6		
	78	54	22.680	165	48	00.9	345	47	52.5				
North Tablet, Peace Bridge 1927	d.m.	42	54	25.128	58	28	34.3	238	28	06.5	Ref. Mon. 35-41 Turning Point No. 151 Ref. Mon. 34-41	1,086.6 1,857.6 654.3	
		78	54	22.329	179	45	13.6	359	45	13.4			
Ref. Mon. 34-41 New York, 1912	d.m.	42	54	09.359	318	02	48.1	138	03	01.3			
		78	54	03.048									

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INTERNATIONAL BOUNDARY COMMISSION - UNITED STATES AND CANADA
GEOGRAPHIC POSITIONS--1927 NORTH AMERICAN DATUM

District Niagara River

State New York

Province Ontario

STATION	LATITUDE AND LONGITUDE			AZIMUTH (FROM SOUTH)			BACK AZIMUTH			TO STATION	DISTANCE (METRES)	Remarks
	°	'	"	°	'	"	°	'	"			
Ref. Mon. 35-41	42	54	06.714									
Ontario, 1941	d.m.	78	55	03.158								
South Tablet, Peace Bridge		42	54	24.639	59	09	38.7	239	09	10.9	Ref. Mon. 35-41	1,078.9
1927	d.m.	78	54	22.326	179	45	13.6	359	45	13.6	North Tablet, Peace Bridge	15.08
					317	09	09.9	137	09	23.1	Ref. Mon. 34-41	643.1
Turning Point No. 152		42	54	00.828	101	03	34.8	281	03	06.9	Ref. Mon. 35-41	947.1
		78	54	22.186	179	45	13.7	359	45	13.4	Turning Point No. 151	2,607.4
					179	45	13.7	359	45	13.6	South Tablet, Peace Bridge	734.8
					238	46	29.1	58	46	42.2	Ref. Mon. 34-41	507.8
Turning Point No. 153		42	52	52.413	176	17	09.0	356	17	04.5	Ref. Mon. 35-41	2,297.6
		78	54	56.597	200	17	36.3	20	17	59.7	Turning Point No. 152	2,250.9
					207	05	44.4	27	06	20.9	Ref. Mon. 34-41	2,667.2

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INTERNATIONAL BOUNDARY COMMISSION - UNITED STATES AND CANADA
GEOGRAPHIC POSITIONS—1927 NORTH AMERICAN DATUM

District Lake Erie

State N.Y., Penn., Ohio

Province Ontario

STATION	LATITUDE AND LONGITUDE			AZIMUTH (FROM SOUTH)			BACK AZIMUTH			TO STATION	DISTANCE (METRES)	Remarks
	°	'	"	°	'	"	°	'	"			
Turning Point No. 154	42	52	42.905	190	04	12.6	10	04	14.2	Turning Point No. 153 Horseshoe Reef Light-41	298.0 304.8	
	78	54	58.893	195	43	14.2	15	43	16.7			
Horseshoe Reef Light-41 New York, 1941	42	52	52.413							d.		
	78	54	55.254									
Turning Point No. 155	42	49	41.637	195	42	27.1	15	43	14.2	Turning Point No. 154 Horseshoe Reef Light-41	5,810.7 6,115.5	
	78	56	08.207	195	42	27.1	15	43	16.7			
Turning Point No. 156	42	23	36.592	6	35	03.3	186	33	37.7	Presque Isle Light Long Point Light (old) Long Point Light (new) Turning Point No. 155	25,475.0 17,508.9 17,411.6 105,601.6	
	80	04	48.455	186	34	36.3	6	35	35.6			
				188	15	20.9	8	16	34.9			
				242	24	01.8	63	10	31.4			
Presque Isle Light 1873 Penn. 1912	42	09	56.376							d.		
	80	06	55.707									
Long Point Light (old) USLS Ontario	42	33	00.292							1.		
	80	03	20.560									
Long Point Light (new) GSC Ontario, 1916	42	32	55.018							d.		
	80	02	58.875									
Turning Point No. 157	42	12	27.080	3	00	38.2	182	59	22.0	Fairport Light (old on bank) Fairport Light (new on pier) Turning Point No. 156	50,124.8 49,618.8 98,321.8	
	81	14	45.062	3	17	00.5	183	15	38.2			
				257	28	47.4	78	15	51.9			
Fairport Light (old on bank) USLS Ohio, 1910	41	45	24.683							d.		
	81	16	39,016									
Fairport Light (new on pier) USLS Ohio, 1910	41	45	41.477							d.		
	81	16	48.087									
Turning Point No. 158	41	40	35.469	85	59	55.4	265	43	25.0	Perry's Mon. Light Pelee Passage Light Turning Point No. 157	34,555.3 24,885.2 112,252.0	
	82	23	51.290	141	44	11.8	321	36	46.8			
				237	55	13.3	58	41	24.6			

!No check on this position.

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Ref.Mon. = reference monument

INTERNATIONAL BOUNDARY COMMISSION - UNITED STATES AND CANADA
GEOGRAPHIC POSITIONS--1927 NORTH AMERICAN DATUM

District Lake Erie

State N.Y., Penn., Ohio

Province Ontario

STATION	LATITUDE AND LONGITUDE			AZIMUTH (FROM SOUTH)			BACK AZIMUTH			TO STATION	DISTANCE (METRES)	Remarks
	d.	°	'	°	'	"	°	'	"			
Perry's Monument Light USC&GS Ohio, 1928	d.	41	39	14.630								
		82	48	41.039								
Pelee Passage Lighthouse USLS Ontario, 1910	d.	41	51	08.226								
		82	34	59.355								
Turning Point No. 159		41	40	35.469	77	13	23.7	257	08	08.8	Perry's Mon. Light	11,239.4
		82	40	47.331	180	00	00.0	0	00	00.0	Middle Island Light	762.0
					Due East			Due West			Turning Point No. 158	23,502.0*
Middle Island Light USLS Ontario, 1910	d.	41	41	00.168								
		82	40	47.331								
Turning Point No. 160		41	51	48.734	62	28	23.3	242	17	59.7	Toledo Harbor Light	24,365.4
		83	04	09.114	242	28	23.3	62	35	29.1	Colchester Reef Light	16,566.4
					302	33	07.5	122	48	41.3	Turning Point No. 159	38,467.6
					317	15	09.7	137	25	27.8	Perry's Mon. Light	31,637.8
Toledo Harbor Light USC&GS (Maumee Bay Harbor Lighthouse Light) Ohio, 1904	d.	41	45	42.683								
		83	19	44.475								
Colchester Reef Light USLS Ontario, 1910	d.	41	55	56.403								
		82	53	31.458								

*Arc of the Parallel

¹No check on this position.

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T.P. = turning point

Ref.Mon. = reference monument

INTERNATIONAL BOUNDARY COMMISSION -- UNITED STATES AND CANADA
GEOGRAPHIC POSITIONS--1927 NORTH AMERICAN DATUM

District Detroit River

State Michigan

Province Ontario

STATION	LATITUDE AND LONGITUDE			AZIMUTH (FROM SOUTH)			BACK AZIMUTH			TO STATION	DISTANCE (METRES)	Remarks
	°	'	"	°	'	"	°	'	"			
Turning Point No. 161	42	02	27.404	60	48	46.5	240	47	24.9	Ref. Mon. 1-42 Ref. Mon. 2-42 Turning Point No. 160	3,212.7 3,190.8 20,806.2	
	83	08	59.121	240	54	38.3	60	55	59.5			
				341	14	52.0	161	18	05.9			
Ref. Mon. 1-42 Michigan, 1942	d.m.	42	01	36.607								
		83	11	01.041								
Ref. Mon. 2-42 Ontario, 1911	d.m.	42	03	17.665								
		83	06	57.863								
Boundary Mon. 1 (Sugar Is. Dike) 1944	d.m.	42	05	24.647	13	51	58.8	193	51	19.5	Turning Point No. 161 Ref. Mon. 3-42	5,632.6 4,369.8
		83	08	00.430	201	09	54.3	21	10	40.3		
Ref. Mon. 3-42 Ontario, 1911	d.m.	42	07	36.718								
		83	06	51.738								
Boundary Mon. 2 (West - Dike of Livingston- Channel) 1944	d.m.	42	06	11.382	13	52	09.2	193	51	58.8	Boundary Mon. 1 Ref. Mon. 3-42	1,485.3 2,902.7
		83	07	44.939	204	53	42.5	24	54	18.1		
Boundary Mon. 3 (East - Dike of Livingston- Channel) 1944	d.m.	42	06	56.179	13	52	19.1	193	52	09.2	Boundary Mon. 2 Ref. Mon. 3-42	1,423.7 1,529.8
		83	07	30.084	215	09	02.0	35	09	27.7		
Turning Point No. 162		42	07	31.399	13	52	26.9	193	52	19.1	Boundary Mon. 3 Turning Point No. 161 Ref. Mon. 3-42 Ref. Mon. 2-42	1,119.3 9,660.8 634.0 7,842.9
		83	07	18.401	13	52	26.9	193	51	19.5		
					254	59	42.1	75	00	00.0		
					365	32	52.2	176	33	06.0		
Turning Point No. 163		42	10	29.138	81	34	39.3	261	34	15.1	Ref. Mon. 4-42 Turning Point No. 162	835.5 5,576.5
		83	08	02.450	349	32	47.2	169	33	16.8		
Ref. Mon. 4-42 Michigan, 1911	d.m.	42	10	25.170								
		83	08	38.461								

¹No check on this position.

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	°	'	"	°	'	"	°	'	"			
Turning Point No. 164	42	14	19.154	3	57	25.7	183	57	11.3	Turning Point No. 163 Ref. Mon. 5-42	7,114.0 292.1	
	83	07	41.061	314	24	05.1	134	24	11.2			
Ref. Mon. 5-42 Ontario, 1925 d.m.	42	14	12.529									
	83	07	31.958									
Turning Point No. 165	42	15	36.363	29	33	49.2	209	33	09.6	Turning Point No. 164 Ref. Mon. 6-42	2,738.7 577.6	
	83	06	42.129	296	24	54.6	116	25	09.8			
Ref. Mon. 6-42 Ontario, 1925 d.m.	42	15	28.034									
	83	06	19.560									
Turning Point No. 166	42	17	23.762	20	17	39.2	200	17	03.2	Turning Point No. 165 Ref. Mon. 7-42	3,533.0 452.4	
	83	05	48.667	281	27	45.6	101	27	58.6			
Ref. Mon. 7-42 Ontario, 1911 d.m.	42	17	20.848									
	83	05	29.316									
Turning Point No. 167	42	18	31.226	34	24	30.7	214	23	48.8	Turning Point No. 166 Ref. Mon. 8-42	2,522.9 425.9	
	83	04	46.437	304	16	25.2	124	16	35.5			
Ref. Mon. 8-42 Ontario, 1911 d.m.	42	18	23.452									
	83	04	31.070									
Southwest Tablet, Ambassador Bridge 1929 d.m.	42	18	42.270	9	19	14.3	189	19	11.5	Ref. Mon. 8-42 Turning Point No. 167 Ref. Mon. 9-42	588.4 562.3 1,157.1	
	83	04	26.909	52	41	49.8	232	41	36.7			
				254	13	08.9	74	13	41.7			
Northeast Tablet, Ambassador Bridge 1929 d.m.	42	18	42.614	10	28	05.1	190	28	01.9	Ref. Mon. 8-42 Southwest Tablet, Ambassador Bridge Ref. Mon. 9-42	601.3 17.529 1,140.8	
	83	04	26.300	52	41	50.2	232	41	49.8			
				254	32	32.1	74	33	04.5			

!No check on this position.

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Turning Point No. 168	42 19' 03.953	52 42 15.7	232 41 50.2	N.E. Tablet, Ambassador Bridge	1,086.5	
	83 03 48.560	52 42 15.7 326 25 46.7	232 41 36.7 146 25 53.6	Turning Point No. 167 Ref. Mon. 9-42	1,666.3 425.4	
West Disk, Michigan Central RR. Tunnel 1929	42 19 07.886	12 58 44.5	192 58 41.3	Ref. Mon. 9-42	488.3	
	83 03 33.501	70 36 55.3	250 36 45.2	Turning Point No. 168	365.6	
West Tablet, Michigan Central RR. Tunnel 1929	42 19 07.956	13 37 24.2	193 37 20.8	Ref. Mon. 9-42	491.8	
	83 03 33.231	70 36 55.5	250 36 55.3	West Disk, Michigan Central RR. Tunnel	6.547	
East Tablet, Michigan Central RR. Tunnel 1929	42 19 07.980	13 50 19.7	193 50 16.2	Ref. Mon. 9-42	493.0	
	83 03 33.140	70 36 55.6	250 36 55.5	West Tablet, Michigan Central RR. Tunnel	2.210	
East Disk, Michigan Central RR. Tunnel 1929	42 19 08.051	14 28 27.3	194 28 23.6	Ref. Mon. 9-42	496.6	
	83 03 32.869	70 36 55.8	250 36 55.6	East Tablet, Michigan Central RR. Tunnel	6.584	
West Tablet, Detroit-Windsor Hwy. Tunnel 1930	42 19 26.190	70 37 42.6	250 36 45.2	Turning Point No. 168	2,067.7	
	83 02 23.378	70 37 42.6	250 36 55.8	East Disk, Michigan Central RR. Tunnel	1,686.8	
East Tablet, Detroit-Windsor Hwy. Tunnel 1930	42 19 26.278	70 37 42.8	250 37 42.6	West Tablet, Detroit-Windsor Hwy. Tunnel	8.211	
	83 02 23.040					
Turning Point No. 169	42 19 45.652	70 38 32.8	250 36 55.8	East Disk, Michigan Central RR. Tunnel	3,497.9	
	83 01 08.756	70 38 32.8	250 36 45.2	Turning Point No. 168	3,878.8	
		70 38 32.8	250 37 42.8	East Tablet, Detroit-Windsor Hwy. Tunnel	1,802.9	
		332 32 40.0	152 32 46.1	Ref. Mon. 10-45	450.4	

*No check on this position.

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	°	'	"	°	'	"	°	'	"			
Ref. Mon. 10-45 Ontario, 1945	d.m.	42	19	32.698								
		83	00	59.686								
Turning Point No. 170		42	19	56.665	82	14	54.6	262	13	41.3	Turning Point No. 169	2,516.1
		82	59	19.866	168	29	29.5	348	29	28.8	Ref. Mon. 11-42	124.5
Ref. Mon. 11-42 Michigan, 1911	d.m.	42	20	00.619								
		82	59	20.951								
Turning Point No. 171		42	20	21.833	72	21	55.1	252	20	43.3	Turning Point No. 170	2,561.9
		82	57	33.224	129	13	17.1	309	13	14.6	Ref. Mon. 12-42	109.7
Ref. Mon. 12-42 Michigan, 1911	d.m.	42	20	24.082								
		82	57	36.938								
Turning Point No. 172		42	20	48.853	53	41	55.3	233	41	21.9	Turning Point No. 171	1,408.0
		82	56	43.654	272	49	43.8	92	50	00.0	Ref. Mon. 13-42	551.4
Ref. Mon. 13-42 Ontario, 1911	d.m.	42	20	47.970								
		82	56	19.594								
Turning Point No. 173		42	22	24.132	73	06	12.8	253	01	28.5	Turning Point No. 172	10,092.0
		82	49	41.780	159	47	08.1	339	45	30.8	Ref. Mon. 15-42	9,542.7
					332	17	58.4	152	19	58.6	Ref. Mon. 14-42	8,790.2
Ref. Mon. 14-42 Ontario, 1911	d.m.	42	18	11.858								
		82	46	43.387								
Ref. Mon. 15-42 Michigan, 1911	d.m.	42	27	14.327								
		82	52	06.079								

¹No check on this position.

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	d	m	"	d	m	"	d	m	"			
Boundary Mon. 15A-81 1981	d.m.	42	31	23.413	36	38	30.7	216	32	25.9	Turning Point No. 173	20,724.500
		82	40	41.187								
Boundary Mon. 15B-81 1981	d.m.	42	31	25.279	36	37		216	37		Boundary Mon. 15A-81	71.74
		82	40	39.312								
Turning Point No. 174		42	32	00.089	36	34	04.3	216	33	40.7	Boundary Mon. 15B-81 Turning Point No. 173 Ref. Mon. 16-42	1,337.3 22,133.5 134.7
		82	40	04.406	36	38	37.7	216	32	08.0		
					78	27	59.4	258	27	55.5		
Ref. Mon. 16-42 Michigan, 1926	d.m.	42	31	59.216								
		82	40	10.190								
Turning Point No. 175		42	32	29.110	27	19	15.4	207	19	01.7	Turning Point No. 174 Ref. Mon. 17-42	1,007.9 270.8
		82	39	44.136	317	56	54.6	137	57	00.0		
Ref. Mon. 17-42 Ontario, 1911	d.m.	42	32	22.593								
		82	39	36.187								
Turning Point No. 176		42	32	49.156	46	06	58.4	226	06	39.3	Turning Point No. 175 Ref. Mon. 18-42	892.3 273.0
		82	39	15.953	309	18	05.7	129	18	12.0		
Ref. Mon. 18-42 Ontario, 1911	d.m.	42	32	43.551								
		82	39	06.693								
Turning Point No. 177		42	33	17.603	51	02	46.9	231	02	14.7	Turning Point No. 176 Ref. Mon. 19-42	1,396.0 206.1
		82	38	28.372	315	29	02.1	135	29	06.4		
Ref. Mon. 19-42 Ontario, 1911	d.m.	42	33	12.840								
		82	38	22.038								
Turning Point No. 178		42	33	25.441	70	06	40.4	250	06	20.6	Turning Point No. 177 Ref. Mon. 20-42	710.8 205.8
		82	37	59.075	351	59	22.3	171	59	23.1		
Ref. Mon. 20-42 Ontario, 1911	d.m.	42	33	18.837								
		82	37	57.818								

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Turning Point No. 179	42	33	25.250	16	36	52.0	196	36	50.2	Ref. Mon. 21-42 Turning Point No. 178	214.1 750.1	
	82	37	26.195	90	27	10.8	270	26	48.6			
Ref. Mon. 21-42 Ontario, 1911	d.m.	42	33	18.602								
		82	37	28.878								
Turning Point No. 180	42	33	15.951	38	45	26.2	218	45	23.2	Ref. Mon. 22-42 Turning Point No. 179	159.6 655.5	
	82	37	00.363	115	57	48.7	295	57	31.2			
Ref. Mon. 22-42 Ontario, 1911	d.m.	42	33	11.917								
		82	37	04.743								
Turning Point No. 181	42	32	59.845	27	59	12.6	207	59	09.2	Ref. Mon. 23-42 Turning Point No. 180	242.3 695.8	
	82	36	39.020	135	35	08.6	315	34	54.2			
Ref. Mon. 23-42 Ontario, 1911	d.m.	42	32	52.910								
		82	36	44.004								
Turning Point No. 182	42	32	54.617	4	34	38.7	184	34	38.1	Ref. Mon. 24-42 Turning Point No. 181	242.2 456.5	
	82	36	20.300	110	41	32.0	290	41	19.3			
Ref. Mon. 24-42 Ontario, 1911	d.m.	42	32	46.794								
		82	36	21.147								
Turning Point No. 183	42	32	59.937	82	13	25.1	262	12	49.5	Turning Point No. 182 Ref. Mon. 25-42	1,212.4 211.0	
	82	35	27.653	341	56	58.1	161	57	00.0			
Ref. Mon. 25-42 Ontario, 1911	d.m.	42	32	53.435								
		82	35	24.788								
Turning Point No. 184	42	33	14.013	53	09	42.1	233	09	24.9	Turning Point No. 183 Ref. Mon. 26-42	724.4 351.2	
	82	35	02.243	132	14	59.4	312	14	51.7			
Ref. Mon. 26-42 Michigan, 1942	d.m.	42	33	21.666								
		82	35	13.639								

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	°	'	"	°	'	"	°	'	"			
Turning Point No. 185	42	33	50.802	14	39	49.0	194	39	40.2	Turning Point No. 184	1,173.4	
	82	34	49.223	286	39	33.4	106	39	37.4	Ref. Mon. 27-42	139.8	
Ref. Mon. 27-42	42	33	49.503									
Ontario, 1911	d.m.	82	34	43.351								
Turning Point No. 186	42	34	27.086	40	37	36.6	220	37	08.1	Turning Point No. 185	1,475.1	
	82	34	07.117	309	54	49.1	129	54	56.6	Ref. Mon. 28-42	329.6	
Ref. Mon. 28-42	42	34	20.233									
Ontario, 1911	d.m.	82	33	56.034								
Turning Point No. 187	42	34	45.243	50	48	40.9	230	48	20.5	Turning Point No. 186	886.6	
	82	33	36.986	308	55	52.1	128	55	58.5	Ref. Mon. 29-42	275.2	
Ref. Mon. 29-42	42	34	39.638									
Ontario, 1911	d.m.	82	33	27.598								
Turning Point No. 188	42	35	06.288	40	36	21.5	220	36	05.0	Turning Point No. 187	855.3	
	82	33	12.576	303	59	54.3	124	00	01.1	Ref. Mon. 30-42	275.2	
Ref. Mon. 30-42	42	35	01.301									
Ontario, 1911	d.m.	82	33	02.571								
Turning Point No. 189	42	35	28.218	26	54	33.2	206	54	23.0	Turning Point No. 188	758.9	
	82	32	57.515	59	55	18.3	239	55	07.9	Ref. Mon. 31-44	404.2	
Ref. Mon. 31-44	42	35	21.653									
Michigan, 1944	d.m.	82	33	12.854								
Turning Point No. 190	42	36	26.308	49	44	39.2	229	43	36.4	Turning Point No. 189	2,773.3	
	82	31	24.687	117	22	11.1	297	22	04.0	Ref. Mon. 32-42	269.9	
Ref. Mon. 32-42	42	36	30.329									
Michigan, 1911	d.m.	82	31	35.202								
Turning Point No. 191	42	36	49.325	27	28	10.4	207	27	59.4	Turning Point No. 190	800.5	
	82	31	08.489	98	50	13.4	278	50	06.6	Ref. Mon. 33-42	231.8	

¹No check on this position.

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	° ' "	° ' "	° ' "			
Ref. Mon. 33-42 Michigan, 1911	d.m. 42 36 50.479 82 31 18.539					
Turning Point No. 192	42 38 17.303 82 30 35.078	15 40 10.7 110 40 23.5	195 39 48.1 290 40 10.3	Turning Point No. 191 Ref. Mon. 34-42	2,819.5 475.3	
Ref. Mon. 34-42 Michigan, 1911	d.m. 42 38 22.740 82 30 54.595					
Turning Point No. 193	42 39 53.988 82 30 38.146	282 46 00.0 358 39 29.3	102 46 10.1 178 39 31.4	Ref. Mon. 35-42 Turning Point No. 192	348.9 2,984.2	
Ref. Mon. 35-42 Ontario, 1911	d.m. 42 39 51.489 82 30 23.204					
Turning Point No. 194	42 41 58.512 82 29 42.393	18 17 10.0 289 06 07.8	198 16 32.2 109 06 11.4	Turning Point No. 193 Ref. Mon. 36-42	4,046.7 126.7	
Ref. Mon. 36-42 Ontario, 1911	d.m. 42 41 57.168 82 29 37.132					
Turning Point No. 195	42 43 06.265 82 29 01.469	24 00 56.0 278 08 06.2	204 00 28.2 98 08 21.6	Turning Point No. 194 Ref. Mon. 37-42	2,288.7 523.0	
Ref. Mon. 37-42 Ontario, 1934	d.m. 42 43 03.866 82 28 38.716					
Turning Point No. 196	42 44 00.108 82 29 02.397	105 30 11.0 359 16 18.9	285 29 57.2 179 16 19.5	Ref. Mon. 38-42 Turning Point No. 195	481.3 1,661.6	
Ref. Mon. 38-42 Michigan, 1911	d.m. 42 44 04.277 82 29 22.787					
Turning Point No. 197	42 45 44.553 82 28 02.814	22 48 38.5 276 59 04.2	202 47 58.1 96 59 15.6	Turning Point No. 196 Ref. Mon. 39-42	3,496.2 383.3	

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Ref. Mon. 39-42		42	45	43.042									
Ontario, 1911	d.m.	82	27	46.080									
Turning Point No. 198		42	46	12.893	95	11	34.1	275	11	25.1	Ref. Mon. 40-42	303.5	
		82	28	04.481	357	31	05.5	177	31	06.6	Turning Point No. 197	875.3	
Ref. Mon. 40-42		42	46	13.783									
Michigan 1911	d.m.	82	28	17.776									
Turning Point No. 199		42	47	10.037	255	46	45.4	75	46	53.9	Ref. Mon. 41-42	293.7	
		82	28	19.279	349	11	52.6	169	12	02.7	Turning Point No. 198	1,795.1	
Ref. Mon. 41-42		42	47	12.375									
Ontario, 1934	d.m.	82	28	06.753									
Turning Point No. 200		42	48	08.514	251	33	38.3	71	33	46.5	Ref. Mon. 42-42	289.4	
		82	28	50.876	338	17	49.0	158	18	10.5	Turning Point No. 199	1,942.1	
Ref. Mon. 42-42		42	48	11.480									
Ontario, 1911	d.m.	82	28	38.795									
Turning Point No. 201		42	48	29.539	96	08	42.9	276	08	33.3	Ref. Mon. 43-42	324.1	
		82	28	55.615	350	34	31.9	170	34	35.1	Turning Point No. 200	657.7	
Ref. Mon. 43-42		42	48	30.663									
Michigan, 1911	d.m.	82	29	09.796									
Turning Point No. 202		42	49	31.121	7	46	38.1	187	46	30.3	Turning Point No. 201	1,917.9	
		82	28	44.193	286	43	14.9	106	43	31.1	Ref. Mon. 44-42	564.4	
Ref. Mon. 44-42		42	49	25.858									
Ontario, 1935	d.m.	82	28	20.397									
Turning Point No. 203		42	50	12.123	21	33	58.8	201	33	43.8	Turning Point No. 202	1,360.4	
		82	28	22.178	114	38	12.5	294	38	00.0	Ref. Mon. 45-42	459.4	
Ref. Mon. 45-42		42	50	18.329									
Michigan, 1911	d.m.	82	28	40.565									

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	°	'	"	°	'	"	°	'	"				
Turning Point No. 204	42	51	20.298	9	53	18.9	189	53	07.9	Turning Point No. 203 Ref. Mon. 46-42	2,135.4 397.2		
	82	28	06.030	278	55	40.4	98	55	52.2				
Ref. Mon. 46-42 Ontario, 1911	d.m.	42	51	18.300									
		82	27	48.747									
Turning Point No. 205		42	53	14.552	87	33	56.1	267	33	44.1	Ref. Mon. 47-42 Turning Point No. 204	401.5 3,529.8	
		82	28	13.550	357	13	39.7	177	13	44.8			
Ref. Mon. 47-42 Michigan, 1911	d.m.	42	53	13.999									
		82	28	31.226									
Turning Point No. 206		42	54	20.101	17	58	55.7	197	58	36.0	Turning Point No. 205 Ref. Mon. 48-42	2,126.6 405.5	
		82	27	44.619	281	17	36.4	101	17	48.3			
Ref. Mon. 48-42 Ontario, 1925	d.m.	42	54	17.527									
		82	27	27.089									
Turning Point No. 207		42	55	36.150	13	40	32.8	193	40	15.7	Turning Point No. 206 Ref. Mon. 49-42	2,415.2 354.1	
		82	27	19.448	114	11	14.2	294	11	04.5			
Ref. Mon. 49-42 Michigan, 1911	d.m.	42	55	40.851									
		82	27	33.691									
Turning Point No. 208		42	56	15.467	26	53	18.3	206	52	59.8	Turning Point No. 207 Ref. Mon. 50-42	1,360.3 330.1	
		82	26	52.320	298	25	45.2	118	25	53.9			
Ref. Mon. 50-42 Ontario, 1911	d.m.	42	56	10.374									
		82	26	39.517									
Turning Point No. 209		42	57	07.179	44	04	01.7	224	03	15.3	Turning Point No. 208 Ref. Mon. 51-42	2,220.6 285.8	
		82	25	44.204	123	46	36.8	303	46	29.7			
Ref. Mon. 51-42 Michigan, 1925	d.m.	42	57	12.328									
		82	25	54.684									

*No check on this position.

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	°	'	"	°	'	"	°	'	"			
South Tablet, Canadian Nat. Rwy. Tunnel d.m. 1929	42	57	33.051	31	00	34.7	211	00	20.3	Turning Point No. 209	931.5	
	82	25	23.034									
North Tablet, Canadian Nat. Rwy. Tunnel d.m. 1929	42	58	33.233	31	00	34.8	211	00	34.7	South Tablet, Canadian Nat. Rwy. Tunnel	6.553	
	82	25	22.885									
Turning Point No. 210	42	58	00.300	31	00	49.9	211	00	34.8	North Tablet, Canadian Nat. Rwy. Tunnel Turning Point No. 209 Ref. Mon. 52-42	974.5 1,912.6 444.2	
	82	25	00.732									
				31	00	49.9	211	00	20.3			
				323	17	55.1	143	18	03.1			
Ref. Mon. 52-42 Ontario, 1911 d.m.	42	57	48.758									
	82	24	49.018									
Turning Point No. 211	42	58	38.399	14	17	32.1	194	17	23.1	Turning Point No. 210 Ref. Mon. 53-42	1,213.3 479.8	
	82	24	47.516	290	29	24.6	110	29	38.1			
Ref. Mon. 53-42 Ontario, 1911 d.m.	42	58	32.956									
	82	24	27.682									
Turning Point No. 212	42	59	07.583	85	12	02.0	265	11	55.3	Ref. Mon. 54-42 Turning Point No. 211	224.2 1,127.5	
	82	25	17.456	323	00	26.5	143	00	46.9			
Ref. Mon. 54-42 Michigan, 1911 d.m.	42	59	06.975									
	82	25	27.317									
Turning Point No. 213	42	59	32.094	302	54	50.2	122	54	58.8	Ref. Mon. 55 ecc. Ref. Mon. 55-42 Ref. Mon. 55 ecc. No. 2 Turning Point No. 212	340.1 333.6 388.1 799.1	
	82	25	28.829	303	56	22.0	123	56	30.3			
				311	58	04.9	131	58	13.6			
				341	11	15.7	161	11	23.6			
Ref. Mon. 55, ecc. Ontario, 1942 d.m.	42	59	26.106									
	82	25	16.228									
Ref. Mon. 55-42 Ontario, 1911 d.m.	42	59	26.058									
	82	25	16.612									

¹No check on this position.

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	°	'	"	°	'	"	°	'	"			
Ref. Mon. 55, ecc. No.2 Ontario, 1950 d.m.	42	59	23.683									
Turning Point No. 214	42	59	52.063	3	27	02.0	183	27	00.9	Turning Point No. 213	617.3	
	82	25	27.189	135	37	06.0	315	37	01.6	Ref. Mon. 56-42	208.2	
Ref. Mon. 56-42 Michigan, 1911 d.m.	42	59	56.885									
South Tablet, Blue Water Bridge 1938 d.m.	42	59	55.454	29	26	06.6	209	26	04.8	Turning Point No. 214	120.2	
	82	25	24.582	102	10	32.6	282	10	26.4	Ref. Mon. 56-42	209.4	
				244	51	10.4	64	51	51.3	Ref. Mon. 57-50	1,496.8	
Ref. Mon. 57-50 Ontario, 1950 d.m.	43	00	16.061									
	82	24	24.760									
North Tablet, Blue Water Bridge 1938 d.m.	42	59	55.787	29	26	06.7	209	26	06.6	South Tablet, Blue Water Bridge	11.802	
	82	25	24.326	99	08	42.8	279	08	36.5	Ref. Mon. 56-42	213.2	
				245	06	58.9	65	07	39.7	Ref. Mon. 57-50	1,487.2	

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	°	'	"	°	'	"	°	'	"			
Turning Point No. 215	43	00	40.601	29	26	30.3	209	26	04.8	Turning Point No. 214 Ref. Mon. 58-42 Ref. Mon. 57-50 North Tablet, Blue Water Bridge	1,719.9 943.4 947.0 1,587.9	
	82	24	49.868	103	09	53.7	283	09	26.0			
				323	05	38.2	143	05	55.4			
				29	26	30.3	209	26	06.7			
Turning Point No. 216	43	35	28.121	20	13	38.3	200	01	39.9	Turning Point No. 215 Port Sanilac Light	68,611.7 38,252.9	
	82	07	22.398	62	03	04.1	241	45	49.8			
Port Sanilac Light (U.S.L.S.) Michigan, 1908	43	25	44.440									
	d. 82	32	24.729									
Turning Point No. 217	45	20	18.958	58	00	12.8	237	31	27.7	Thunder Bay Island Light Turning Point No. 216	62,760.5 196,714.8	
	82	31	07.252	350	38	50.9	170	55	29.0			
Thunder Bay Island Light Michigan	45	02	14.22	Not located by triangulation								
	d. 83	11	39.22	Approximate geodetic position								
Turning Point No. 218	45	49	16.448	302	07	14.2	122	53	27.3	Turning Point No. 217 Ref. Mon. 2 Ref. Mon. 1	99,815.6 12,060.0 12,653.8	
	83	35	49.942	206	34	41.9	26	37	41.6			
				221	35	28.0	41	40	07.7			
Ref. Mon. 2 Michigan, 1911	45	55	05.708	26	37	41.6	206	34	41.9	Turning Point No. 218 Ref. Mon. 1 Ref. Mon. 2, ecc.	12,060.0 3,281.8 27.331	
	d.m. 83	31	39.551	293	48	02.9	113	49	42.9			
				346	15	25.6	166	15	25.8			
Ref. Mon. 2, ecc. Michigan, 1944	45	55	04.848	293	20	40.7	113	22	20.1	Ref. Mon. 1, ecc.	3,249.6	
	d.m. 83	31	39.250									
Ref. Mon. 1 Ontario, 1911	45	54	22.789	41	40	07.7	221	35	28.0	Turning Point No. 218 Ref. Mon. 1, ecc.	12,653.8 16.185	
	d.m. 83	29	20.245	128	53	08.7	308	53	08.3			
Ref. Mon. 1, ecc. Ontario, 1944	45	54	23.118									
	83	29	20.829									

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	°	'	"	°	'	"	°	'	"				
Turning Point No. 219	45	59	53.263	32	52	12.5	212	45	10.1	Turning Point No. 218 Ref. Mon. 3	23,393.8 3,329.0		
	83	26	01.793	67	32	34.0	247	29	51.2				
Ref. Mon. 3 Michigan, 1911	d.m.	45	59	12.051									
		83	28	24.732									
Ref. Mon. 3, ecc. Michigan, 1944	d.m.	45	59	11.371									
		83	28	23.637									
Turning Point No. 220		46	06	20.699	21	17	20.9	201	16	56.7	Ref. Mon. 4 Turning Point No. 219	1,984.2 16,044.3	
		83	34	19.154	318	09	31.5	138	15	29.6			
Ref. Mon. 4 Michigan, 1911	d.m.	46	05	20.817									
		83	34	52.687									
Turning Point No. 221		46	07	17.939	285	21	39.6	105	25	15.1	Turning Point No. 220 Ref. Mon. 5	6,659.1 2,123.4	
		83	39	18.132	339	13	19.8	159	13	45.1			
Ref. Mon. 5 Michigan, 1911	d.m.	46	06	13.640									
		83	38	43.061									
Turning Point No. 222		46	06	09.707	161	26	08.7	341	26	00.0	Ref. Mon. 6 Turning Point No. 221	813.4 8,376.6	
		83	45	35.661	255	23	44.8	75	28	16.9			
Ref. Mon. 6 Ontario, 1911	d.m.	46	06	34.680									
		83	45	47.719									
Turning Point No. 223.		46	07	07.720	219	37	45.5	39	38	17.6	Ref. Mon. 7 Turning Point No. 222	1,498.2 5,440.9	
		83	49	34.893	289	11	49.6	109	14	42.0			
Ref. Mon. 7 Ontario, 1911	d.m.	46	07	45.090									
		83	48	50.381									

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	°	'	"	°	'	"	°	'	"				
Turning Point No. 224	46	03	37.526	153	11	40.3	333	11	32.3	Ref. Mon. 8 Turning Point No. 223	526.9 8,818.7		
	83	54	12.822	222	35	14.2	42	38	34.4				
Ref. Mon. 8 Ontario, 1911	d.m.	46	03	52.757									
		83	54	23.877									
Turning Point No. 225		46	03	24.202	215	47	45.3	35	48	02.4	Ref. Mon. 9 Turning Point No. 224	873.7 4,041.7	
		83	57	19.869	264	08	21.1	84	10	35.8			
Ref. Mon. 9 Ontario, 1911	d.m.	46	03	47.153									
		83	56	56.094									
Ref. Mon. 9, ecc. Ontario, 1944	d.m.	46	03	46.856									
		83	56	56.332									
Turning Point No. 226		46	06	08.562	31	06	05.9	211	06	00.0	Ref. Mon. 10 Turning Point No. 225	339.0 5,324.9	
		83	58	34.934	342	21	36.3	162	22	30.4			
Ref. Mon. 10 Michigan, 1911	d.m.	46	05	59.161									
		83	58	43.087									

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Turning Point No. 227	46 07 05.787 84 00 22.849	236 34 57.3 307 18 39.9	56 35 11.6 127 19 57.7	Ref. Mon. 11 Turning Point No. 226	511.3 2,914.2	
Ref. Mon. 11 Ontario, 1911	d.m. 46 07 14.906 84 00 02.974					
Turning Point No. 228	46 08 57.924 84 00 21.655	0 25 27.4 290 24 38.6	180 25 26.5 110 25 07.5	Turning Point No. 227 Ref. Mon. 12	3,462.4 917.7	
Ref. Mon. 12 Ontario, 1911	d.m. 46 08 47.556 83 59 41.577					
Turning Point No. 229	46 11 14.295 84 04 37.840	225 19 44.1 307 25 52.0	45 19 58.5 127 28 56.8	Ref. Mon. 13 Turning Point No. 228	601.7 6,923.4	
Ref. Mon. 13 Ontario, 1911	d.m. 46 11 27.994 84 04 17.887					
Turning Point No. 230	46 12 36.374 84 05 09.020	15 06 26.1 345 13 09.3	195 06 22.2 165 13 31.8	Ref. Mon. 14 Turning Point No. 229	439.9 2,621.0	
Ref. Mon. 14 Michigan, 1911	d.m. 46 12 22.619 84 05 14.368					
Turning Point No. 231	46 14 29.037 84 06 29.823	280 29 46.4 333 31 39.9	100 30 00.0 153 32 38.2	Ref. Mon. 15 Turning Point No. 230	411.0 3,885.8	
Ref. Mon. 15 Ontario, 1911	d.m. 46 14 26.612 84 06 10.961					
Turning Point No. 232	46 15 22.793 84 05 51.598	26 15 45.2 63 58 35.5	206 15 17.6 243 58 23.9	Turning Point No. 231 Ref. Mon. 16	1,850.8 382.8	
Ref. Mon. 16 Michigan, 1911	d.m. 46 15 17.354 84 06 07.656					

¹No check on this position.

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	°	'	"	°	'	"	°	'	"			
Turning Point No. 233	46	16	04.791	117	42	36.5	297	42	25.2	Ref. Mon. 17 Turning Point No. 232	377.4 1,887.3	
	84	06	55.624	313	23	43.1	133	24	29.4			
Ref. Mon. 17 Michigan, 1911	46	16	10.475							d.m.		
	84	07	11.229									
Turning Point No. 234	46	18	53.432	292	38	26.8	112	38	44.1	Ref. Mon. 18 Turning Point No. 233	553.2 5,216.3	
	84	07	10.108	356	35	28.1	176	35	38.6			
Ref. Mon. 18 Ontario, 1911	46	18	46.535							d.m.		
	84	06	46.248									
Turning Point No. 235	46	19	18.992	52	49	13.5	232	48	38.3	Turning Point No. 234 Ref. Mon. 19	1,305.8 584.7	
	84	06	21.483	340	29	58.7	160	30	05.3			
Ref. Mon. 19 Ontario, 1911	46	19	01.143							d.m.		
	84	06	12.361									
Turning Point No. 236	46	20	17.992	216	52	53.7	36	53	00.0	Ref. Mon. 20 Turning Point No. 235	310.8 2,122.2	
	84	07	12.373	329	08	08.4	149	08	45.2			
Ref. Mon. 20 Ontario, 1911	46	20	26.043							d.m.		
	84	07	03.651									
Turning Point No. 237	46	22	20.664	56	46	26.3	236	46	17.6	Ref. Mon. 21 Turning Point No. 236	307.9 4,058.2	
	84	08	20.507	338	57	25.8	158	58	15.1			
Ref. Mon. 21 Michigan, 1911	46	22	15.200							d.m.		
	84	08	32.557									
Turning Point No. 238	46	25	07.472	94	46	54.3	274	45	01.4	Ref. Mon. 22 Turning Point No. 237	3,339.1 5,179.0	
	84	08	45.874	353	59	27.1	173	59	45.5			
Ref. Mon. 22 Michigan, 1911	46	25	16.457							d.m.		
	84	11	21.694									

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	°	'	"	°	'	"	°	'	"			
Turning Point No. 239	46	30	15.068	15	46	51.4	195	45	20.3	Turning Point No. 238	9,869.2	
	84	06	40.190	241	16	07.0	61	16	40.3	Ref. Mon. 23	1,115.1	
Ref. Mon. 23	46	30	32.425									
Ontario, 1911	d.m.	84	05	54.327								
Turning Point No. 240	46	31	04.443	157	53	03.7	237	53	00.0	Ref. Mon. 24	285.4	
	84	07	05.570	340	27	26.8	160	27	45.2	Turning Point No. 239	1,617.8	
Ref. Mon. 24	46	31	13.006									
Ontario, 1911	d.m.	84	07	10.611								
Turning Point No. 241	46	31	15.790	286	35	43.7	106	35	53.5	Ref. Mon. 24	301.0	
	84	07	24.142	311	30	31.3	131	30	44.8	Turning Point No. 240	528.6	
Turning Point No. 242	46	31	49.638	235	40	21.1	55	40	27.6	Ref. Mon. 25	230.9	
	84	07	44.498	337	27	15.1	157	27	29.9	Turning Point No. 241	1,131.6	
Ref. Mon. 25(Garden River East Base)	d.m.	46	31	53.855								
Ontario, 1911		84	07	35.550								
Turning Point No. 243	46	31	56.732	53	48	16.2	233	48	06.8	Ref. Mon. 26	343.6	
	84	08	22.194	285	14	53.6	105	15	21.0	Turning Point No. 242	832.7	
Ref. Mon. 26	46	31	50.160									
Michigan, 1911	d.m.	84	08	35.206								
Turning Point No. 244	46	31	51.567	254	15	09.0	74	15	28.3	Turning Point No. 243	587.7	
	84	08	48.736	278	34	01.3	98	34	11.1	Ref. Mon. 26	291.6	
Turning Point No. 245	46	31	41.709	239	48	43.8	59	49	01.6	Turning Point No. 244	605.4	
	84	09	13.290	328	52	58.0	148	53	00.0	Ref. Mon. 27	115.4	
Ref. Mon. 27	46	31	38.509									
Michigan, 1911	d.m.	84	09	10.492								

¹No check on this position.

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	°	'	"	°	'	"	°	'	"			
Turning Point No. 246	46	31	34.589	48	21	53.4	228	21	38.5	Ref. Mon. 28	583.4	
	84	10	00.652	257	42	26.6	77	43	01.0	Turning Point No. 245	1,033.1	
Ref. Mon. 28	46	31	22.035									
Michigan, 1911	84	10	21.110									d.m.
Turning Point No. 247	46	31	37.397	275	55	28.2	95	55	56.6	Turning Point No. 246	839.4	
	84	10	39.826	319	56	07.8	139	56	21.4	Ref. Mon. 28	619.8	
Turning Point No. 248	46	32	24.702	23	48	29.1	203	48	17.8	Ref. Mon. 29	825.2	
	84	11	37.299	320	00	53.3	140	01	35.0	Turning Point No. 247	1,906.2	
Ref. Mon. 29	46	32	00.252									
Michigan, 1911	84	11	52.930									d.m.
Turning Point No. 249	46	32	02.480	254	28	11.3	74	29	35.5	Turning Point No. 248	2,564.6	
	84	13	33.263	307	42	52.5	127	43	06.6	Ref. Mon. 30	523.1	
Ref. Mon. 30	46	31	52.117									
Michigan, 1911	84	13	13.847									d.m.
Turning Point No. 250	46	30	02.761	139	14	15.0	319	14	05.7	Ref. Mon. 31	417.7	
	84	15	17.368	210	58	00.3	30	59	15.8	Turning Point No. 249	4,311.6	
Ref. Mon. 31	46	30	13.007									
Ontario, 1911	84	15	30.159									d.m.
Turning Point No. 251	46	29	39.770	160	23	00.7	340	23	00.0	Ref. Mon. 32	58.0	
	84	15	55.832	229	07	10.2	49	07	38.1	Turning Point No. 250	1,084.8	
Ref. Mon. 32	46	29	41.539									
Ontario, 1911	84	15	56.745									d.m.
Turning Point No. 252	46	29	34.433	258	42	40.6	78	43	08.7	Turning Point No. 251	842.1	
	84	16	34.556	285	12	13.0	105	12	22.7	Ref. Mon. 33	294.7	

¹No check on this position.

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T.P. = turning point

Ref.Mon.= reference monument

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	°	'	"	°	'	"	°	'	"			
Ref. Mon. 33 Michigan, 1911	46	29	31.930									
	84	16	21.222									
Turning Point No. 253	46	29	34.297	135	09	48.3	315	09	38.8	Ref. Mon. 34	397.8	
	84	17	37.587	269	48	50.6	89	49	36.3	Turning Point No. 252	1,344.2	
Ref. Mon. 34 Ontario, 1911	46	29	43.432									
	84	17	50.739									
Turning Point No. 254	46	29	59.276	182	15	53.3	2	15	54.1	Ref. Mon. 35-43	602.1	
	84	19	30.712	287	43	08.7	107	44	30.7	Turning Point No. 253	2,532.7	
Ref. Mon. 35-43 Ontario, 1943	46	30	18.761									
	84	19	29.596									
Turning Point No. 255	46	30	26.929	2	22	11.7	182	22	10.6	Ref. Mon. 36	748.8	
	84	20	30.922	303	37	20.7	123	38	04.4	Turning Point No. 254	1,541.8	
Ref. Mon. 36 Michigan, 1911	46	30	02.701									
	84	20	32.374									
Bridge Tablet, C.P.R. Bridge 1944	46	30	30.545	46	09	47.8	226	09	19.1	Ref. Mon. 37-44	1,170.3	
	84	21	41.693	274	13	32.6	94	14	23.9	Turning Point No. 255	1,513.0	
				300	10	49.6	120	11	39.8	Ref. Mon. 36	1,709.9	
Tablet, Compensating Works 1944	46	30	30.650	44	31	32.1	224	31	04.9	Ref. Mon. 37-44	1,141.5	
	84	21	43.744	274	13	31.1	94	13	32.6	Bridge Tablet, C.P.R. Br.	43.8	
				299	33	05.6	119	33	57.3	Ref. Mon. 36	1,749.4	
Turning Point No. 256	46	30	32.855	274	12	59.7	94	13	31.1	Tablet, Compensating Wks.	925.1	
	84	22	27.017	274	12	59.7	94	14	23.9	Turning Point No. 255	2,481.9	
				352	06	20.7	172	06	24.9	Ref. Mon. 37-44	890.4	
Ref. Mon. 37-44 Michigan, 1944	46	30	04.293									
	84	22	21.282									

*No check on this position.

Abbreviations used: d. = described; m. = marked; n. = not; r. = recovered; l. = lost; p. = probably.

T.P. = turning point

Ref. Mon. = reference monument

INTERNATIONAL BOUNDARY COMMISSION - UNITED STATES AND CANADA
GEOGRAPHIC POSITIONS—1927 NORTH AMERICAN DATUM

District St. Mary's River

State Michigan

Province Ontario

STATION	LATITUDE AND LONGITUDE			AZIMUTH (FROM SOUTH)			BACK AZIMUTH			TO STATION	DISTANCE (METRES)	Remarks
	°	'	"	°	'	"	°	'	"			
Turning Point No. 257	46	29	54.917	166	55	00.3	346	54	53.1	Ref. Mon. 38 Turning Point No. 256	929.8 2,015.9	
	84	23	43.960	234	27	48.9	54	28	44.7			
Ref. Mon. 38 Ontario, 1912	d.m.	46	30	24.248								
		84	23	53.832								
Turning Point No. 258	46	30	01.953	276	17	34.1	96	18	41.0	Turning Point No. 257 Ref. Mon. 39	1,979.2 1,411.7	
	84	25	16.216	345	30	34.1	165	30	46.1			
Ref. Mon. 39 Michigan, 1912	d.m.	46	29	17.688								
		84	24	59.654								
Turning Point No. 259	46	29	20.571	235	20	29.8	55	21	32.7	Turning Point No. 258 Ref. Mon. 40-43	2,247.4 1,360.6	
	84	26	42.912	335	21	31.3	155	21	50.6			
Ref. Mon. 40-43 Michigan, 1943	d.m.	46	28	40.520								
		84	26	16.320								
Turning Point No. 260	46	27	10.180	180	00	00.0	0	00	00.0	Ref. Mon. 41 Turning Point No. 259	1,303.6 4,654.8	
	84	28	32.406	210	06	42.5	30	08	01.9			
Ref. Mon. 41 Ontario, 1912	d.m.	46	27	52.398								
		84	28	32.406								
Turning Point No. 261	46	27	38.765	232	47	19.6	52	48	38.2	Ref. Mon. 42-43 Turning Point No. 260	2,903.8 6,297.9	
	84	33	24.606	278	01	37.3	98	05	09.1			
Ref. Mon. 42-43 Ontario, 1943	d.m.	46	28	35.623								
		84	31	36.199								
Turning Point No. 262	46	38	03.325	247	35	17.9	67	37	00.0	Ref. Mon. 43 Isle Parisienne Lighthouse Turning Point No. 261	3,230.4 3,217.3 24,931.3	
	84	45	46.229	247	42	49.3	67	44	31.1			
Ref. Mon. 43 Ontario, 1912	d.m.	46	38	43.187								
		84	43	25.803								

¹No check on this position. Abbreviations used: d. = described; m. = marked; n. = not; r. = recovered; l. = lost; p. = probably. T.P. = turning point Ref. Mon. = reference monument

INTERNATIONAL BOUNDARY COMMISSION - UNITED STATES AND CANADA
 GEOGRAPHIC POSITIONS—1927 NORTH AMERICAN DATUM

District St. Mary's River

State Michigan

Province Ontario

STATION	LATITUDE AND LONGITUDE			AZIMUTH (FROM SOUTH)			BACK AZIMUTH			TO STATION	DISTANCE (METRES)	Remarks
	°	'	"	°	'	"	°	'	"			
Isle Parisienne Lighthouse Ontario, 1943 d.	46	38	42.814									
	84	43	26.249									

'No check on this position.

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T.P. = turning point

Ref.Mon. = reference monument

INTERNATIONAL BOUNDARY COMMISSION - UNITED STATES AND CANADA
GEOGRAPHIC POSITIONS—1917 NORTH AMERICAN DATUM

District Lake Superior

State Michigan, Minnesota

Province Ontario

STATION	LATITUDE AND LONGITUDE			AZIMUTH (FROM SOUTH)			BACK AZIMUTH			TO STATION	DISTANCE (METRES)	Remarks
	°	'	"	°	'	"	°	'	"			
Turning Point No. 263	46	53	19.978	29	34	48.8	209	30	33.5	Whitefish Point Light Coppermine Point Light Turning Point No. 262	15,047.5 11,951.3 29,265.5	
	84	51	36.526	207	37	27.7	27	40	39.3			
				345	14	58.8	165	19	14.0			
Whitefish Point Light - house USLS d. Michigan, 1895	46	46	16.045									
	84	57	26.621									
Coppermine Point Light Ontario, 1912 d.	46	59	02.798	Not located by triangulation.								
	84	47	14.313	Approx. Geodetic Position.								
Turning Point No. 264	48	18	19.983	299	31	49.9	122	07	18.5	Turning Point No. 263 Passage Island Light	307,249.5 9,115.5	
	88	22	06.951	358	38	12.0	178	38	19.8			
Passage Island Light Michigan, 1912 d.	48	13	24.949	Not located by triangulation.								
	88	21	56.443	Approx. Geodetic Position.								
Turning Point No. 265	48	14	38.024	253	19	25.6	73	33	20.1	Turning Point No. 264 Passage Island Light	24,053.3 23,399.9	
	88	40	45.088	275	25	05.8	95	39	07.6			
Turning Point No. 266	47	58	26.519	171	56	12.8	351	55	12.0	Victoria Island Light Turning Point No. 265 Rock of Ages Light	12,075.4 57,468.5 12,075.4	
	89	20	14.448	238	16	47.0	58	46	10.8			
				351	56	12.8	171	57	13.3			
Rock of Ages Light Michigan, 1908 d.	47	51	59.406									
	89	18	52.953									
Victoria Island Light Ontario, 1912 d.	48	04	53.609	Not located by triangulation.								
	89	21	36.282									

¹No check on this position.

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T.P. = turning point

Ref.Mon. = reference monument

INTERNATIONAL BOUNDARY COMMISSION - UNITED STATES AND CANADA
GEOGRAPHIC POSITIONS—1927 NORTH AMERICAN DATUM

District Pigeon Bay

State Minnesota

Province Ontario

STATION	LATITUDE AND LONGITUDE			AZIMUTH (FROM SOUTH)			BACK AZIMUTH			TO STATION	DISTANCE (METRES)	Remarks
	°	'	"	°	'	"	°	'	"			
Turning Point No. 267	48	00	52.257	11	04	06.1	191	03	59.1	Ref. Mon. 1 Turning Point No. 266	1,011.1	
	89	29	21.465	291	35	31.3	111	42	17.8		12,201.5	
Ref. Mon. 1 Minnesota, 1911	48	00	20.130							d.m.		
	89	29	30.830									
Azimuth Monument Ontario, 1911	48	00	53.090							d.m.		
	89	31	49.745									
Turning Point No. 268	48	00	09.202	13	33	59.8	193	33	56.3	Ref. Mon. 2 Turning Point No. 267	420.1	
	89	33	52.564	256	39	25.1	76	42	46.6		5,774.2	
Ref. Mon. 2 Minnesota, 1911	47	59	55.979							d.m.		
	89	33	57.318									
Turning Point No. 269 = T.P. 1797(Pigeon River)	47	59	57.185	111	45	14.0	291	45	11.0	Ref. Mon. 3 Turning Point No. 268 Ref. Mon. 1366 (South Pigeon)	86.1	
	89	34	10.399	224	53	11.3	44	53	24.6		523.9	
				291	45	14.0	111	45	15.0		41.0	
Ref. Mon. 3 Ontario, 1911	47	59	58.218							d.m.		
	89	34	14.258									
Ref. Mon. 1366(South Pigeon) Minnesota, 1908	47	59	56.693							d.m.		
	89	34	08.562									

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We certify that the foregoing tables are a true record of the conversion of the geographic positions of international boundary points from the old North American datum to the 1927 North American datum. This report covers the international boundary through the St. Lawrence River and Great Lakes. All international boundary turning points, monuments and reference monuments, along this section of the boundary will now be published on the present official geographic datum for North America. The publication of these tables is carried out in accordance with the provisions of Article IV of the Treaty between the United States and His Britannic Majesty in respect of Canada signed at Washington, February 24, 1925.



David C. Fischer
United States Commissioner



Alec C. McEwen
Canadian Commissioner