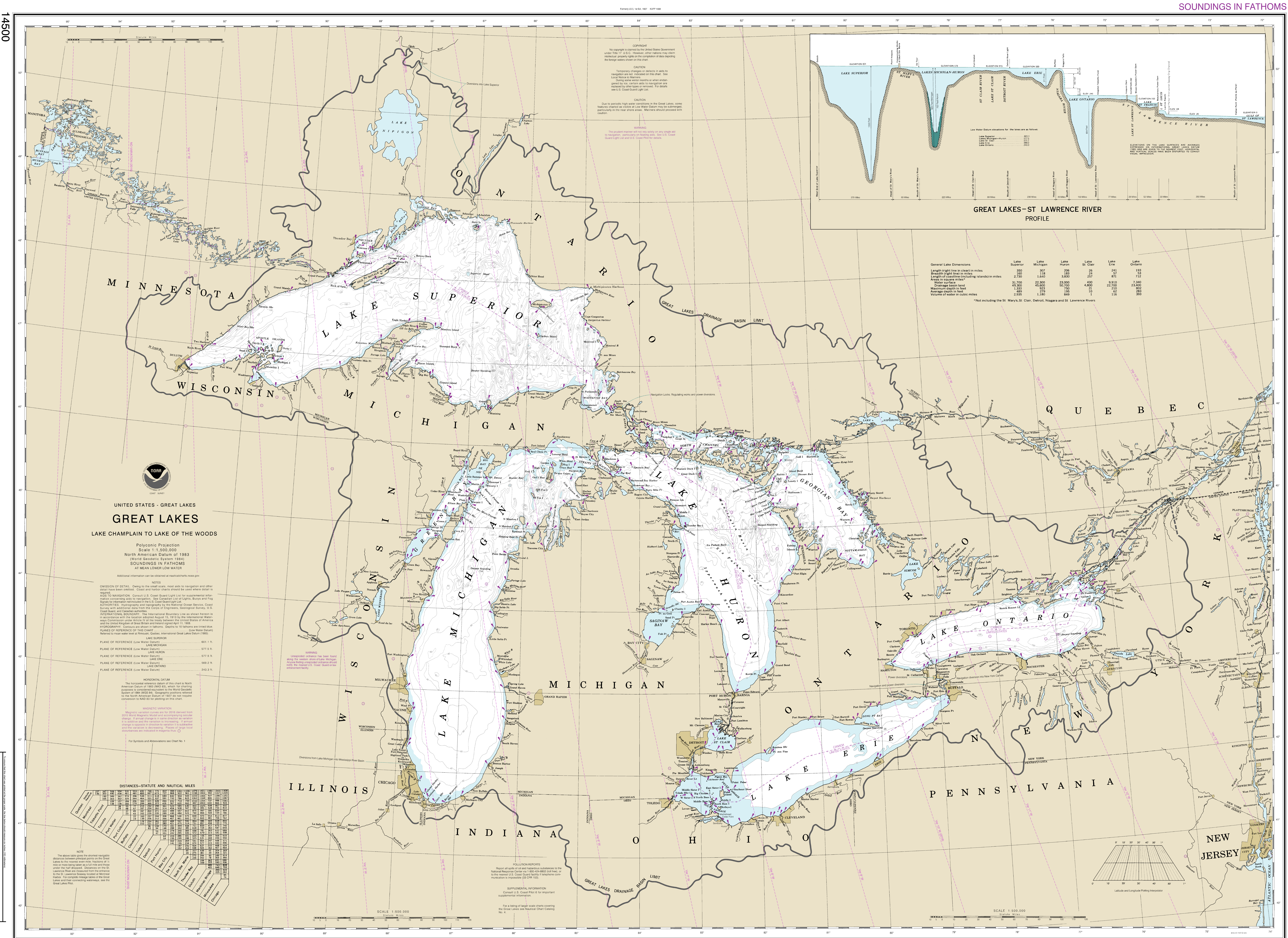


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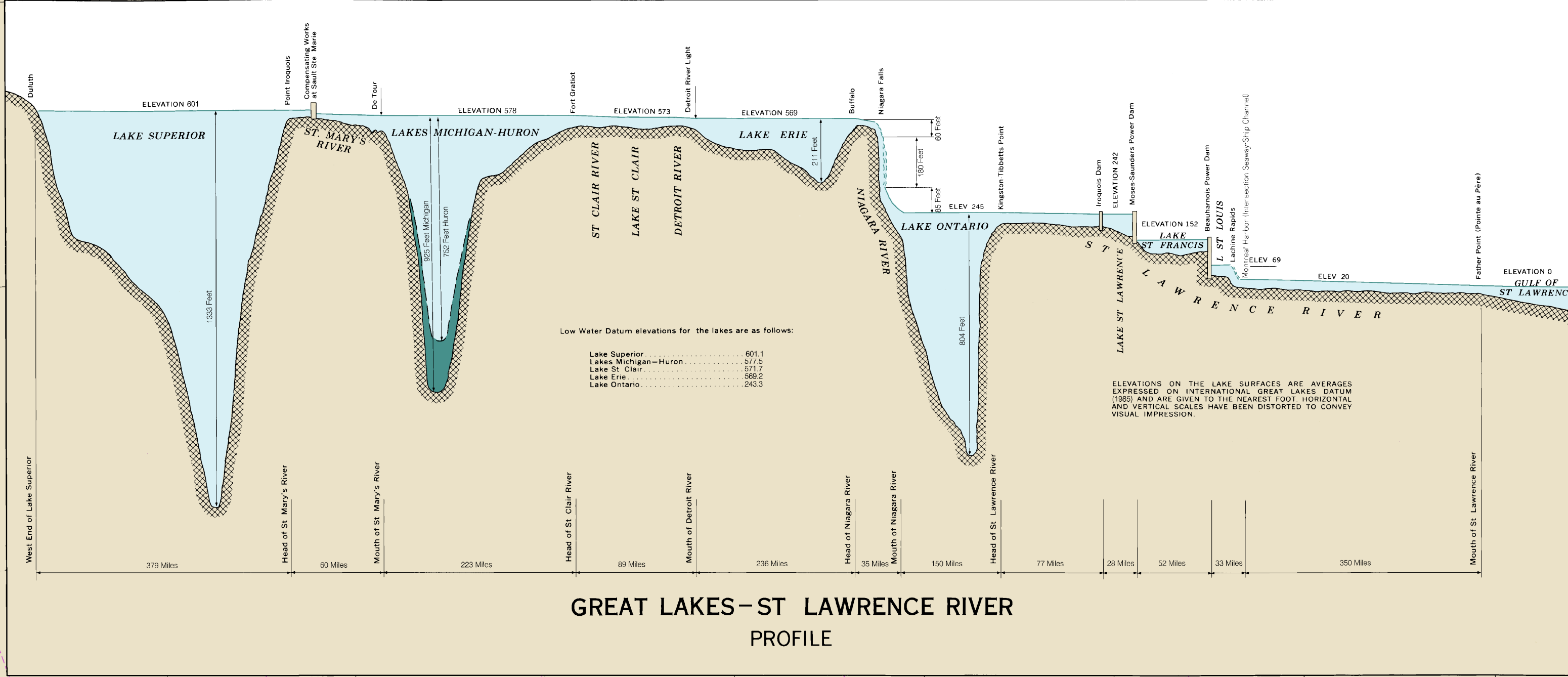


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CAUTION
Temporary changes or omissions in aids to navigation are not indicated on this chart. See Local Notice to Mariners.
During some winter months or when circumstances prevail, certain aids to navigation may be removed or their light or sound altered. For details, see U.S. Coast Guard Light List.

CAUTION
Due to periodic high water conditions in the Great Lakes, some features (shown as visible at low water) may be submerged, particularly in the near shore areas. Mariners should proceed with caution.

WARNING
The prudent mariner will not rely solely on any single aid to navigation, particularly on sounding aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.



GREAT LAKES-ST. LAWRENCE RIVER PROFILE

General Lake Dimensions

	Lake Superior	Lake Michigan	Lake Huron	Lake Erie	Lake Ontario	Lake St. Lawrence
Length (right line in clear) in miles	350	307	206	26	241	103
Breadth (right line in miles)	160	118	183	24	87	83
Length of coastline (including islands) in miles	2,730	1,640	3,830	257	871	712
Water surface area in square miles	31,700	22,300	23,000	430	9,910	7,340
Drainage basin land area in square miles	49,300	45,600	50,700	4,800	22,700	23,400
Maximum depth in feet	1,333	925	726	21	133	1,560
Average depth in feet	489	279	195	10	112	283
Volume of water in cubic miles	2,933	1,180	849	1	116	993

*Not including the St. Marys, St. Clair, Detroit, Niagara and St. Lawrence Rivers

UNITED STATES - GREAT LAKES
LAKE CHAMPLAIN TO LAKE OF THE WOODS

Polyconic Projection
Scale 1:1,500,000
North American Datum of 1983
World Geodetic System, 1984
SOUNDINGS IN FATHOMS
AT MEAN LOWER LOW WATER

Additional information can be obtained at nauticalcharts.noaa.gov

NOTES
OMISSION OF DETAIL: Due to the small scale, most aids to navigation and other detail have been omitted. Coast and bottom charts should be used where detail is required.
AIDS TO NAVIGATION: Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation. See Canadian List of Lights, Buoys and Fog Signals for information not included in the U.S. Coast Guard Light List.
AUTHORITIES: Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, U.S. Coast and Geodetic Survey, and other sources.
INTERNATIONAL BOUNDARY: The International Boundary Line as shown herein is in accordance with the location adopted August 15, 1913 by the International Waterways Commission under Article IV of the treaty between the United States of America and the United Kingdom of Great Britain and Ireland signed April 11, 1908.
HYDROGRAPHY: Contours as shown in fathoms. Depths to 10 fathoms are lined blue. PLANE OF REFERENCE OF THIS CHART: (Low Water Datum)
Reference to mean water level at Toronto, Quebec, International Great Lakes Datum (1985).

PLANE OF REFERENCE (Low Water Datum)
LAKE SUPERIOR 601.1 ft.
LAKE MICHIGAN 577.5 ft.
LAKE HURON 577.5 ft.
LAKE ERIE 569.2 ft.
LAKE ONTARIO 243.3 ft.

HORIZONTAL DATUM
The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which, for charting purposes, is considered equivalent to the World Geodetic System of 1984 (WGS 84). Geographic positions related to the North American Datum of 1983 do not require conversion to NAD 83 for plotting on this chart.

MAGNETIC VARIATION
Magnetic variation given in this chart is derived from 2015 World Magnetic Model and accompanying secular change. If major changes in a magnetic variation are indicated in a notice to mariners, the variation is increasing. If a notice to mariners is issued indicating a decrease in the variation, the variation is decreasing. Places of large local magnetic anomalies are indicated in magnetic blue.

For Symbols and Abbreviations see Chart No. 1

DISTANCES—STATUTE AND NAUTICAL MILES

	Chicago	Duluth	Green Bay	Kenosha	La Crosse	Madison	Manitowish	Marquette	Menasha	Milwaukee	Neenah	Port Clinton	Port Huron	Rock Island	St. Ignace	St. Joseph	St. Louis	St. Paul	St. Peter	St. Vincent	Union	Waukegan	Winnetka	Yorke
Chicago	0	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144
Duluth	144	0	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144
Green Bay	144	144	0	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144
Kenosha	144	144	144	0	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144
La Crosse	144	144	144	144	0	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144
Madison	144	144	144	144	144	0	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144
Manitowish	144	144	144	144	144	144	0	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144
Marquette	144	144	144	144	144	144	144	0	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144
Menasha	144	144	144	144	144	144	144	144	0	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144
Milwaukee	144	144	144	144	144	144	144	144	144	0	144	144	144	144	144	144	144	144	144	144	144	144	144	144
Neenah	144	144	144	144	144	144	144	144	144	144	0	144	144	144	144	144	144	144	144	144	144	144	144	144
Port Clinton	144	144	144	144	144	144	144	144	144	144	144	0	144	144	144	144	144	144	144	144	144	144	144	144
Port Huron	144	144	144	144	144	144	144	144	144	144	144	144	0	144	144	144	144	144	144	144	144	144	144	144
Rock Island	144	144	144	144	144	144	144	144	144	144	144	144	144	0	144	144	144	144	144	144	144	144	144	144
St. Ignace	144	144	144	144	144	144	144	144	144	144	144	144	144	144	0	144	144	144	144	144	144	144	144	144
St. Joseph	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	0	144	144	144	144	144	144	144	144
St. Louis	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	0	144	144	144	144	144	144	144
St. Paul	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	0	144	144	144	144	144	144
St. Peter	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	0	144	144	144	144	144
St. Vincent	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	0	144	144	144	144
Union	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	0	144	144	144
Waukegan	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	0	144	144
Winnetka	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	0	144
Yorke	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	0