



ASTRONOMICAL CALCULATIONS

*Made Expressly for this Publication at the Magnetic Observatory in
Toronto for the Year 1889.*

Chronological Cycles.

Golden Number	9	Dominical Letter.....	F.
Epact	28	Roman Indiction.....	2
Solar Cycle.....	22	Julian Period.....	602

Epochs.

The year 5650 of the Jewish Era begins Sep- tember 26	1889	The 53rd of Queen Victoria's Reign begins June 20	1889
The year 1307 of the Mahometan Era begins on August 28	1889	The 23rd of the Dominion of Canada begins July 1	1889
The 114th of the Independence of the United States begins July 4.....	1889.		

Fixed and Movable Festivals and Anniversaries.

New Year's Day	Jan. 1	Holy Thursday	May 30
St. David	March 1	Whitsunday	June 9
Ash Wednesday	March 6	Midsummer Day	June 24
St. Patrick	March 17	Dominion Day	July 1
Lady Day	March 25	Michaelmas Day	Sept. 29
Easter Sunday	April 21	Birth of Prince of Wales	Nov. 9
St. George	April 23	St. Andrew	Nov. 30
Birth of Queen Victoria	May 24	Christmas Day	Dec. 25

Explanation of the Articles in the Calendar.

These pages are calculated for Toronto, and for ordinary purposes will serve with sufficient accuracy for every city in the Province.

MOON'S PHASES.—This Table gives the times (standard 75th meridian)* when the Moon passes the geocentric longitudes of 0°, 90°, 180°, and 270° east of the sun. It gives also the times of her greatest and least distance from the earth.

The times* of the SUN'S RISING AND SETTING† are given for the upper limb, and are corrected for refraction for Toronto.

The standard times* both for the rising and setting of the Moon's centre are given for every day for Toronto.

* In the present Almanac, the hours are numbered from 0 (midnight) to 23.

† Although these times are calculated for Toronto only, the standard times at other places differing not much in latitude from this place may be obtained with sufficient accuracy for ordinary purposes, by adding four minutes for every degree west of Toronto, and subtracting four minutes for every degree east of Toronto.