Star Table.

From the times of the upper transit of the Pole Star may be derived, with the aid of the following Table, the times of culmination, and of the rising and setting of the principal fixed stars, as seen from the parallel of 45° north latitude.

To ascertain when any star found in the following Table will be on the meridian, *add* the number in the left-hand column of figures to the preceding meridian transit of the pole star given in the calendar. To find the time of rising of the star, *subtract* the number opposite to it in the right-hand column of figures from the time of its meridian passage. For the *setting* of a star, *add* the same number to the time of its meridian passage. Those stars marked (....) revolve in a circle of perpetual apparition, and do not rise or set at places in and to the north of latitude 45°.

Name of Star.	On Meridian.	Rises and Sets.	Name of Star.	On Meridian.	Rises and Sets.
	h. m.	h. m.		h. m.	h. m.
α Andromedæ	22 38	8 10	α Ursæ Majoris	9 35	.....
σ Pegasi (Algenib)	22 43	6 59	β Leonis	10 21	7 2
α Cassiopeiæ	23 10	.....	β Corvi	11 6	4 20
β Ceti	23 14	4 40	α Virginis (Spica)	11 57	5 16
β Arietis	0 28	7 25	η Ursæ Majoris	12 21	.....
α Arietis	0 40	7 39	α Bootis (Arcturus)	12 48	7 23
α Ceti	1 36	6 13	β Ursæ Minoris	13 28	.....
α Persei	1 56	.....	β Libræ	13 48	5 23
α Tauri (Aldebaran)	3 9	7 7	α Coronæ Borealis	14 7	8 2
σ Aurigæ (Capella)	3 47	.....	α Serpentis	14 16	6 26
β Orionis (Rigel)	3 48	5 25	β' Scorpii	14 36	4 36
β Tauri	3 58	8 10	α Scorpii (Antares)	15 0	4 2
δ Orionis	4 5	5 57	α Herculis	15 46	6 59
ε Orionis	4 9	5 54	β Draconis	10 5	.....
α Columbæ	4 14	3 9	γ Draconis	16 31	.....
α Orionis	4 29	6 29	α Lyræ (Vega)	17 10	9 31
α Canis Majoris (Sirius)	5 20	4 50	α Aquilæ (Altair)	18 22	6 33
ε Canis Majoris	5 33	3 46	α Cygni	19 14	11 22
α² Geminorum (Castor)	6 6	8 34	α Cephei	19 52	.....
α Canis Minoris (Procyon)	6 12	6 21	β Aquarii	20 2	5 34
β Geminorum (Pollux)	6 17	8 9	α Aquarii	20 36	5 55
α Hydræ	8 0	5 26	α Piscis Aust. (Fomalhaut)	21 27	3 36
α Leonis (Regulus)	8 41	6 50	α Pegasi	21 35	7 0
γ Leonis	8 52	7 26			

Table showing the Illuminated Portions of the Discs of Venus and Mars.

1896.	Venus.	Mars.	1896.	Venus.	Mars.
January.. 15.	0.702	0.972	July..... 15.	1.000	0.856
February. 14.	0.794	0.953	August .. 15.	0.984	0.850
March ... 15.	0.885	0.932	September 15.	0.949	0 860
April .... 15.	0.924	0.909	October .. 15.	0.900	0.896
May ..... 15.	0.967	0.888	November 15.	0.836	0 965
June ..... 15.	0.993	0.869	December. 15.	0.758	0.909

Eclipses.

In the year 1896 there will be two Eclipses of the Sun, and two of the Moon.

I.—An annular eclipse of the Sun, February 13th, invisible in Canada.

II.—A partial eclipse of the Moon, February 28th, invisible in Canada.

III.—A total eclipse of the Sun, August 8th, invisible in Canada.

IV.—A partial eclipse of the Moon, August 12th, visible in Canada.

First contact with the penumbra 22d. 23h. 8m. First contact with shadow 23d. 0h. 24m. Middle of eclipse 23d. 1h. 57m. Last contact with shadow 23d. 3h. 31m. Last contact with penumbra 23d. 4h. 47m.

Magnitude of the eclipse (Moon's diameter=1) 0·734.

The first contact with the shadow, 100° from the north point of the Moon's limb towards the east, the last contact, 153° towards the west: in each case for *direct* image.

Twelve O'Clock Noon Toronto Standard Time (11·42 Mean Time)—Toronto Standard Time 17m. 34·6s. fast of Mean Time, as compared with a Clock shewing Mean Time at the following places:

	Mean Time.		Mean Time.		Mean Time.
	h. m.		h. m.		h. m.
Athens	6 35 p	Lisbon	4 23 p	Rome	5 50 p
Berlin	5 54 p	London, Eng	5 0 p	Rotterdam	0 18 p
Bombay	9 51 p	Madras	10 21 p	San Francisco	8 50 a
Boston	0 15 p	Madrid	4 45 p	St. Petersburg	7 1 p
Calcutta	10 54 p	Melbourne, Aust	*2 40 a	St. John's, Newfoundland	1 29 p
Cape of Good Hope	6 14 p	Montreal	0 6 p	Suez	7 10 p
Chicago	11 10 a	Moscow	7 30 p	Sydney, Aust	*3 5 a
Constantinople	6 56 p	New York	0 4 p	Vienna	6 5 p
Dublin	4 35 p	Paris	5 9 p	Vancouver	8 48 a
Edinburgh	4 47 p	Philadelphia	11 59 a	Victoria, B.C.	8 47 a
Glasgow	4 43 p	Pekin, China	*0 46 a	Winnipeg	10 32 a
Jerusalem	7 21 p	Quebec	0 15 p		

* Of following day.