ECLIPSES OF THE SUN AND MOON, 1837.

APRIL 5.—The Sun will be eclipsed at half-past 2 in the morning-invisible.

APRIL 20.—The Moon will be eclipsed at 45 minutes past 3 o'clock in afternoon—invisible.

MAY 4.—The Sun will be eclipsed at 2 o'clock in the afternoon—invisible. OCTOBER 13.—The Moon will be eclipsed in the evening, total & partly visible, as follows:

VISIDIC, AS IOHOWS.				
Moon rises at20	minutes	past	5 in th	e evening
Beginning of total darkness 35	66	44	5	do.
Ecliptical opposition,22	66	46	6	do:
Middle,27	- 66	66	6	do.
End of total darkness, 9	4.6	66	7	do.
End of the Eclipse	66	+6	8	do.
ration of visibility, 2 hours and	49 minut	es.		

Quantity at rising, 8½ digits.

Depth of immersion in the Earth's shadow, 10 digits from the South-

OCTOBER 29.—Sun eclipsed at 45 minutes past 6 in the morning -invisi-

MOON'S RISING AND SETTING.

14 S 15 S

16 M

19 T

20 F

21 S

22 S

23 M 24 T 25 W

26 T

F

28 Sa

29 Su

30 M 31 T

17 7 18 V

At four days' old it sets at, and	16	-	-	at & after	-	-	7
shines till, about ten at night.	17	-	-	at } after	-	-	8
5 about 11	18	-		about	-		10
6 about 12				about			11
7 at near one in the morning.		-	-	about	-	-	12
15, at full, it rises about 6 in the							

N. B.—This table is sufficiently accurate for the purpose for which it is wanted—that of ascertaining moonlight evenings.

OF THE CHANGES OF THE MOON.

Many persons, understanding that the mean time between one new Moon and another is 29 days, 12 hours, 44 minutes and a fraction, imagine that, to find the full or quarters of the Moon, they have only to add a half or fourth part of that time; and when they do not find the changes marked in the Calendar to correspond with this method, they impute it to mistake in the calculation of those changes. It is therefore necessary to put them in mind, that the great inequality of the Moon's motions renders the above rule extremely inaccurate, so that nineteen times in twenty it must fail in giving the true conjunction or change.

THE FOUR QUARTERS.

Spring Quarter begins March 20, at 1h 14m morning. Summer Quarter begins June 22, at 4h 38m morning. Autumn Quarter begins Sept. 23, at 5h 7m afternoon. Winter Quarter begins Dec. 22, at 2h 3m afternoon.