

## I. PHYSICS

### Astrophysics

# VARIATION IN THE BRIGHTNESS OF THE SUN

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THE purpose of the experiment was to obtain the variation of brightness of the Sun during the eclipse.

**Keywords :** Variation of Brightness; Intensity of Light; Lunasix 3 Exposuremeters.

### EXPERIMENT

#### Description

This variation was measured by noting the intensity of light from the sun with help of a LUNASIX 3 Exposuremeter, pointing the exposuremeter directly to the sun at intervals of one minute and the apparatus was timed correct to a second. The readings were converted in terms of foot candles.

### RESULTS

The intensity of light dropped from  $2^{12}$  foot candles before first contact to  $2^{-3}$  foot

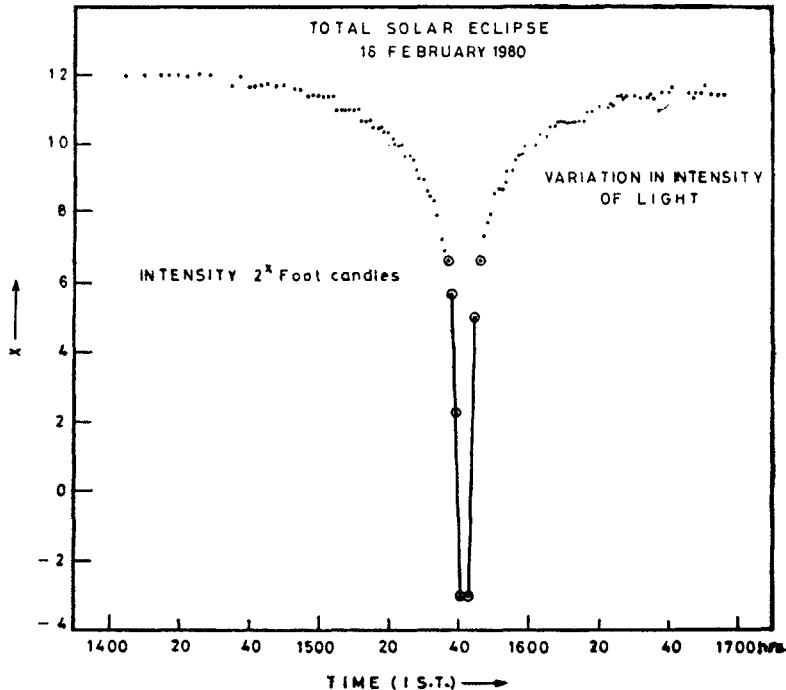


FIG. 1



candles during totality and rose to  $2^{11.5}$  foot candles at the end of the eclipse. Details of the recording giving the time and the index of 2 are given in Table I and Fig. 1.

#### LOCATION

Tadas, Karnataka; Long.  $75^{\circ} 06' 45''$  E; Lat.  $15^{\circ} 07' 25''$  N; and height above sea level 660 metres.