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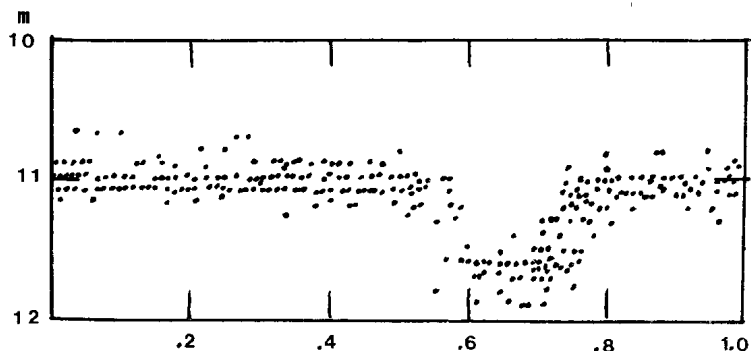
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PROVISIONAL ELEMENTS FOR AN ECLIPSING VARIABLE IN SAGITTARIUS

Number 155 in a catalogue of Sagittarius variables discovered by Dorrit Hoffleit (1972) was investigated by means of eye estimates on approximately 500 plates at the Maria Mitchell Observatory. It is of Algol type, 11.0-11.8 pg. Most of the work of finding the period was done on a Radio Shack Level II computer programmed to read Julian Days from cassette tape, calculate phases for each test period, and display the resulting light curves. The star has a close companion and is too bright for most of the plates. This complicated the period search and the results should be regarded as provisional. The elements are

$$JD_{\min}=2444025.73+2.145508 n.$$



The light curve for full weight observations is shown in the Figure. The abscissa is phase defined as the fractional part of

$$(JD-2436000)/2.145508.$$

The possibility that the period is spurious was tested by trying related periods. No other period satisfied the observa-

tions as well.

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Reference:

Hoffleit, D., 1972, I.B.V.S. No. 660.