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i BOOTIS

From 21 photoelectric observations obtained between J.D. 243 8540.3991 and .5087 the following epoch of minimum can be derived:

$$\text{Hel. J.D. } 243\ 8540.4649 \pm 0.0003 \text{ m. e.}$$

The elements

$$\text{Min} = \text{J.D. } 243\ 7362.6179 + 0.267\ 814\ 191.n \\
\pm \quad 2 \quad \quad \quad \pm \quad 171 \text{ m. e.}$$

valid after March 1961 provide $O - C = + 0.0002$.

The mean error of the 15 minima observed since March 1961 and used in deriving the above ephemeris amounts to ± 0.00055 .

Before March 1961 the following elements were valid:

$$\text{Min} = \text{J.D. } 243\ 4132.517 + 0.267\ 812\ 271.n + 0.115\ 242.10^{-9}.n^2 \\
\pm \quad 0005 \quad \quad \quad \pm \quad 220 \quad \quad \quad \pm \quad 017. \dots 10^{-9} \text{ m. e.}$$

This formula is based on 41 minima and gives for the mean error of one minimum ± 0.0012 .

The period of i Bootis seems to be practically constant since March 1961.

A more exhaustive discussion will follow elsewhere.

Potsdam, 11 June 1964

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