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PERIOD FOR BV 1634

The discovery of BV 1634 was reported by B.S. Carter in IBVS 994, where the type of variation was still undetermined. This star occurs at an extreme corner of the Maria Mitchell Observatory plates on a Sagittarius region. We have made estimates of its brightness on over 500 plates taken with the 7.5-inch Cooke triplet between 1957 and 1975. The variable appears to be a typical Mira type, but it presumably has an unresolved companion of about $13^m.5$ pg.

The composite light curve shown in the Figure is based on the elements

$$\text{Max} = \text{JD } 2436420 + 254 \text{ n.}$$

This represents 27 cycles with 9 observed maxima on the Nantucket plates taken from JD 35695 through 42574, and one early maximum found on a Harvard plate taken with the 8-inch Bache telescope on JD 29811.

MARIENNE HIBBERT
DORRIT HOFFLEIT
Maria Mitchell Observatory
Nantucket, Mass., U.S.A.

