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PHOTOELECTRIC MINIMA TIMES OF THE BINARY STAR V508 Oph

The eclipsing binary BD+ 13° 3496 (V 508 Oph) is a peculiar short period variable star. Its variability was firstly detected by Hoffmeister in 1935 and it was classified as W UMa type by Jacchia (1936). Karetnikov obtained photographic and photovisual light curves of V508 Oph in 1963 and 1977, respectively; while Rovithis and Rovithis-Livaniou (1983) obtained the first BV photoelectric observations of it. Recently, UVB light curves for the system were published by Lapasset (1985) and a spectroscopic analysis was made by Lu (1986).

Because of its peculiarity (unequal amplitudes of its light curves in the different colours) this star was re-observed during 1986. Our photoelectric observations were made using the two-beam, multi-mode, nebular-stellar photometer attached to the 48-inch Cassegrain reflector at Kryonerion Astronomical Station of the National Observatory of Athens. The B and V filters used are in close accordance to the standard ones and reduction of the observations was made in the usual way (Hardie, 1962).

From our observations two primary and four secondary minima times were derived using Kwee and Van Woerden's method (1956). These moments are presented in Table I the successive columns of which give: the Hel. JD, the (O-C) values and the type of minima.

Table I

Hel.J.D.	(O-C) _{Kuk}	(O-C) _{Kar}	(O-C) _{Lap}	(O-C) _{Kho}	Min.
2440000,+					
6668,4185	+0.0174	+0.0067	-0.0014	+0.0041	II
6671,3510	+0.0191	+0.0085	+0.0003	+0.0049	I
6674,4526	+0.0176	+0.0070	-0.0012	+0.0043	I
6675,3150	+0.0180	+0.0074	-0.0008	+0.0048	II
6677,3836	+0.0179	+0.0072	-0.0010	+0.0046	II
6678,4182	+0.0181	+0.0075	-0.0008	+0.0048	II

In the residuals the C values have been calculated using Kukarkin's et al. (1976), Karetnikoy's (1977), Lapasset's (1985), and Kholopoy's et al. (1985) ephemeris formulae, respectively.

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