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PHOTOELECTRIC LIGHT CURVES OF AS Cam

The eclipsing nature of the star AS Cam was announced by Strohmeier (1959). Later on the orbital period and photographic light curve of the system were published by Strohmeier and Knigge (1960). The system was observed photoelectrically between January 1968 and January 1970 by Hilditch (1972a). In 1969 the light elements were calculated by Hilditch using the old photographic and six photoelectric minima. These elements are

Hel.Min. JD 2440 204.5137+3^d4309714.E.

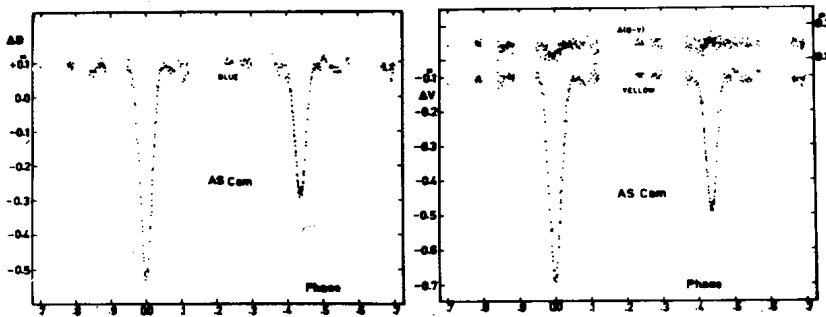
This period is twice of that given by Strohmeier. The light curves were observed and analyzed by Hilditch in three-colour. The spectroscopic orbit of the system was also obtained by Hilditch (1972b).

The system was photoelectrically observed on 19 nights with the 48 cm Cassegrain telescope of the Ege University Observatory using an RCA 1P21 photomultiplier and B,V filters.

Two secondary and a primary minimum times were obtained and are given in the following table.

| Hel.Min. | Min. | O-C | filter |
|---------------|------|--------|--------|
| 2441 547.5273 | II | -.2117 | B |
| .5282 | II | -.2108 | V |
| 578.4065 | II | -.2112 | B,V |
| 580.3330 | I | -.0002 | B |
| .3338 | I | +.0006 | V |

The light and colour curves are presented in the Figures, where the magnitude differences between the variable and the comparison star (BD+69°317) have been plotted against the phases. The phases were calculated with the above light elements. The star varies about O^m_{625} and O^m_{595} at the primary, O^m_{385} and O^m_{390} at the secondary minimum in blue and yellow light, respectively. It is clearly seen that the brightness at the outside eclipses is variable. The magnitude of these variations are about O^m_{03} in yellow and O^m_{05} in blue light. On the other hand the epoch of secondary minimum is displaced from phase 0.5 to 0.4384. It is difficult to say anything about the apsidal motion with the available observations. Further photoelectric minimum times should be obtained for this purpose.



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CORRECTION TO IBVS No. 1083

In the Table for the note on "Close Binaries with H and K Emission" there is an error in the magnitude of RT Lac. It should be 9.0 rather than 10.0.

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