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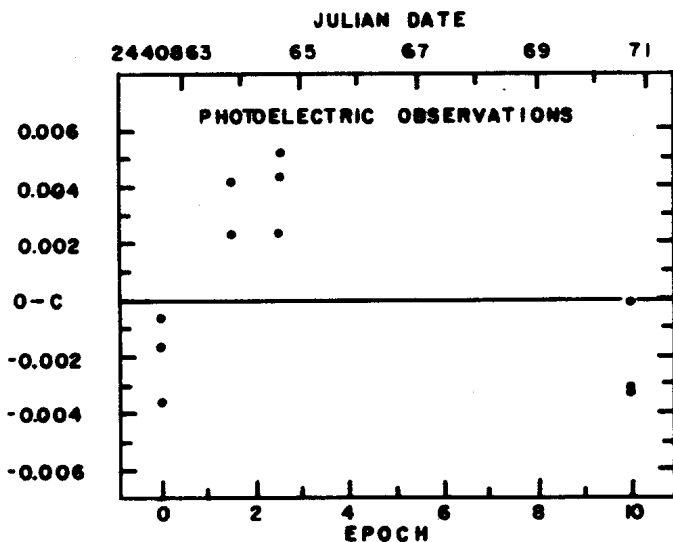
THE PERIOD OF MW PAVONIS

The eclipsing binary MW Pavonis (BV 894) was observed by the author on five nights during October, 1970, at the Cerro Tololo Inter-American Observatory. These observations were obtained with the 18-inch (40.64 cm), number 1 telescope and a 1 P 21 photoelectric photometer. Observations were made in three colors with the use of standard UBV filters.

Eggen and Strohmeier in IBVS no.308 (1968) published a list of observed times of minima and obtained a period of 0<sup>d</sup>562979. After reducing the Cerro Tololo data, however, this period was found to be incompatible with my observed times of minima. A compatible set of light elements was found to be:

$$\text{JD } 2440862.6117 + 0^{\text{d}}79499080 \text{ E}$$

+3                      +50



	<u>Minima</u>	<u>Epoch</u>	<u>O-C</u>
243	8204.542 (S)	-3343.5	-0.018
	8228.465	-3313.5	+0.055
	8263.395	-3269.5	+0.006
	8267.336	-3264.5	-0.028
	8295.222	-3229.5	+0.033
	8314.276	-3205.5	+0.007
	8316.278	-3203.0	+0.022
	8555.549	-2902.0	+0.001
	8641.402	-2794.0	-0.005
	8649.311	-2784.0	-0.046
	8992.401	-2352.5	+0.005
	8994.412	-2350.0	+0.029
	9029.333	-2306.0	-0.030
	9374.375	-1872.0	-0.014
	9376.374	-1869.5	-0.002
	9378.372	-1867.0	+0.008
	9404.252	-1834.5	+0.051
	9654.198	-1520.0	-0.028
	9656.198 (S)	-1517.5	-0.015
244	0120.058 (E)	- 934.0	-0.032
	0120.083	- 934.0	-0.007
	0120.933	- 933.0	+0.048
	0122.888	- 930.5	+0.015
	0124.005	- 929.0	-0.060
	0124.010	- 929.0	-0.055
	0124.016 (E)	- 929.0	-0.049
244	0862.6111(W)	0.0	-0.0006
	0862.6080	0.0	-0.0037
	0862.6100	0.0	-0.0017
	0863.8065	1.5	+0.0023
	0863.8084	1.5	+0.0042
	0863.8065	1.5	+0.0023
	0864.6035	2.5	+0.0043
	0864.6043	2.5	+0.0051
	0864.6015	2.5	+0.0023
	0870.5585	10.0	-0.0031
	0870.5584	10.0	-0.0032
	0870.5615(W)	10.0	-0.0001

The light curves of MW Pavonis show a primary eclipse and a total secondary eclipse of almost equal depth. In addition, asymmetry is incurred in that the light at the .25 phase is greater than at the .75 phase. As shown in the figure, each time of primary minimum has a negative (o-c) and hence occurs early whereas each time of secondary minimum has a positive (o-c) and hence occurs late. The analysis of the light curves is presently underway.