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Konkoly Observatory  
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PHOTOELECTRIC PERIOD FOR BV 346

The eclipsing binary BV 346 (HD 54°2489, HD 202 000) was observed photoelectrically on seventeen nights between June 21 and July 17, 1969, with the No.3 16-in. telescope of the Kitt Peak National Observatory. Four minima were observed, from which the period was calculated; W. Strohmeier, Director of the Remels Observatory, Bamberg, Germany, provided fourteen more minima which confirm the proposed period and increase the accuracy.

Observed minima				
JD	Minimum	Epoch	O-C	Observer
242	6861.315	-10 811	-0.073	S
	6946.452	-10 743	-0.098	S
	6985.396	-10 712	0.022	S
	7034.231	-10 673	0.013	S
	7298.437	-10 462	-0.034	S
	.451		-0.020	S
	7305.442	-10 456.5	0.083	S
	7367.315	-10 407	-0.037	S
	356		0.004	S
	7719.274	-10 126	0.001	S
	8126.319	- 9 801	0.020	S
	340		0.041	S
	8752.518	- 9 301	0.025	S
	9193.299	- 8 949	-0.034	S
244	0400.944	0	0.000	T
	0407.836	5.5	-0.004	T
	0409.713	7	-0.003	T
	0415.974	12	-0.002	T

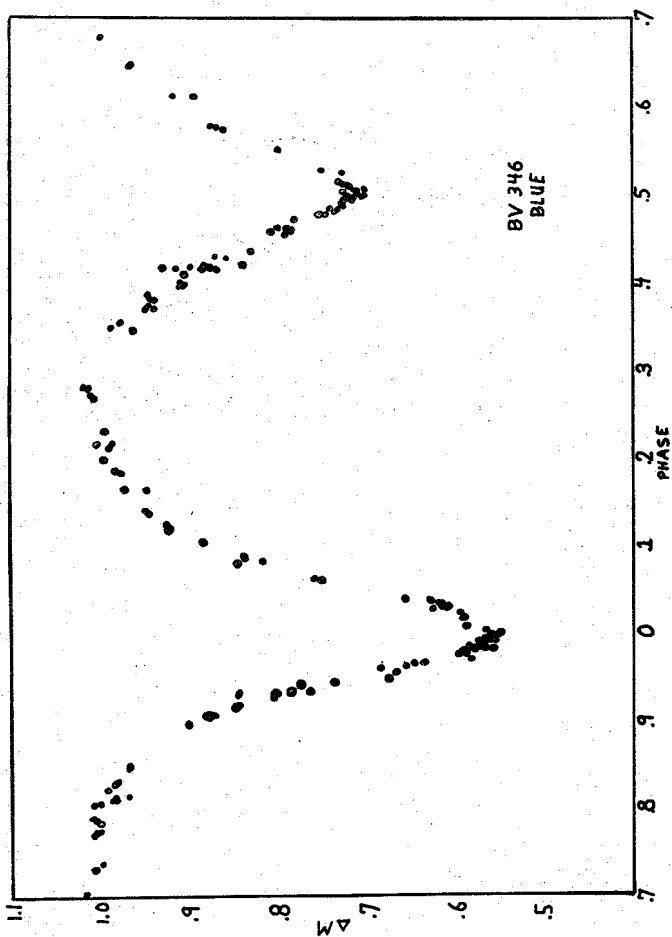
S = W. Strohmeier  
 T = R. Tate

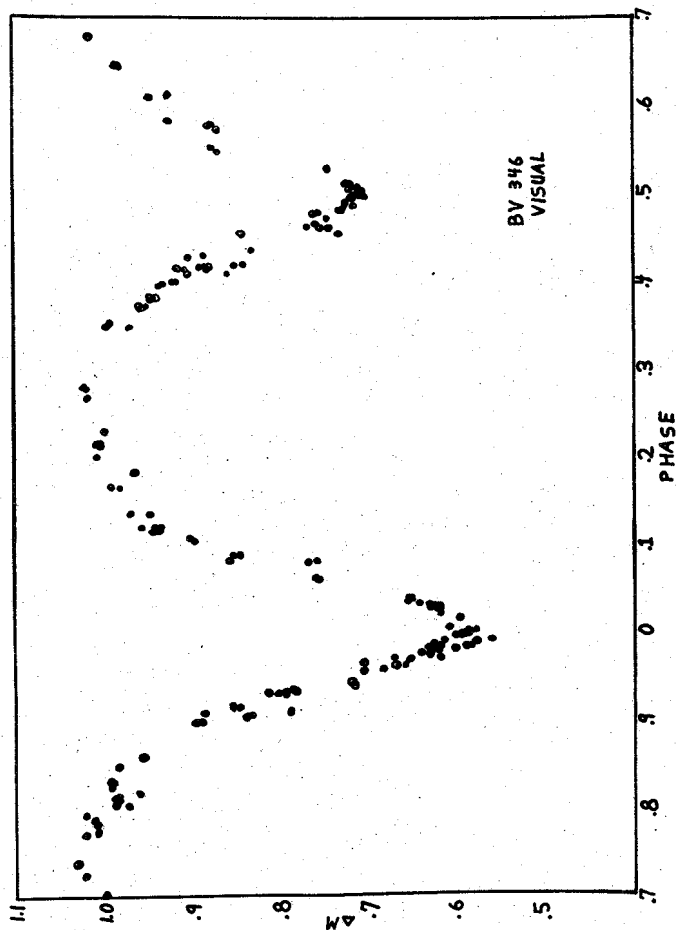
The elements are:

$$\text{Min.} = \text{HJD } 244 \text{ } 0400.944 + 1^d 252387E \\
\pm .005 \pm .000005$$

As can be seen from the visual and blue light curves, the star varies  $0^m.445$  in the visual and  $0^m.455$  in the blue. The prime comparison star is BD 54°2488 (SAO 033193). These curves are corrected for atmospheric extinction and heliocentric time and have been converted to the standard magnitude system.

We are continuing work on this star.





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 and King College Observatory  
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