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V 1334 Cyg

The Cepheid HR 8157 = V 1334 Cyg, discovered by Millis (1969), was observed photoelectrically on the nights October 10, 13 and 20, 1980 with the UBV photometer described by Piccioni (1972) mounted on the 60 cm telescope of the Bologna Observatory.

Tau Cygni and Sigma Cygni were used as comparison stars, data about these stars are reported in Table I. Tau Cygni is variable but its range ($0^m.02$) is much smaller than V 1334 Cygni's ($0^m.20$) (Pande 1960, Pant et al. 1968, Millis 1968, Bartolini and Daper-golas 1980).

Table I

Star	Sp	V	B-V	U-B	Source
Sigma Cyg	B9 Iab	4.23	.13	-.39	Iriarte et al. (1965)
Tau Cyg	F0 IV	3.71	.41	.02	This paper

The mean UBV magnitudes of V 1334 Cygni are reported in Table II.

Table II

J.D.-2444000	N	Phase	V	B-V	U-B
523.38	11	.859	5.810	.476	.175
.46	6	.882	5.804	.476	.166
526.33	8	.744	5.873	.496	.165
.36	11	.753	5.865	.489	.173
.43	12	.774	5.856	.489	.175
534.30	16	.135	5.822	.489	.178
.38	13	.159	5.830	.490	.177
.44	10	.177	5.834	.491	.176

Standard error of the mean is about $0^m.005$, but in addition systematic calibration errors of $0^m.03$ could arise from the transformation into the UBV system.

By comparing the present observations with Millis' observations, we determined the time of maximum of light: JD 2444523.85 \pm

0^d.08. Taking into account all the times of maximum (Table III) we conclude that the period is constant. The residuals have been

Table III

J.D.Obs.Max.	E	O - C	Source
2440124.533	0	.00	Millis (1969)
2441760.90	491	-.05	Szabados (1977)
2443700.63	1073	-.01	Percy et al. (1979)
2444523.85	1320	.00	this paper

computed with the formula:

$$\text{Hel. J.D. Max.} = 2440124.533 + 3^{\text{d}}.332816 \cdot E$$

in excellent agreement with the values published by Henden (1979).

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