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THREE NEW VARIABLE STARS

A continuing photographic patrol has resulted in the discovery of three more variable stars brighter than 10th magnitude. The positions and preliminary ranges, types, and periods are presented in Table I, which continues the list in Kaiser et al. (1990).

TABLE I.

Var. designation	RA (1950)	Dec (1950)	Range (v)	Type	P (days)
DHK 14	4 ^h 55 ^m 50 ^s	+24° 25.2'	8.0 - 8.5	EB	1.385
DHK 15	9 51 18	+10 29.7	7.8 - 8.0	SR:	?
DHK 16	9 41 22	+25 35.1	9.2 - 9.9	EA	1.374

DHK 14 - BD +24°719, HD 31679, SAO 76868 (Tau)

The spectral type is B5. The light curve shows continuous variation, with the primary minimum about 0^m5 deep and the secondary 0^m3. Photoelectric observations are reported by Williams et al. (1990).

DHK 15 - BD +10°2067, HD 85720, SAO 98835 (Leo)

The spectral type is M7. Variability within the given magnitudes has been confirmed by photoelectric measures, which are continuing and will be reported when the period (if type SR) and full amplitude are better defined.

DHK 16 - BD +26°1996, SAO 80992 (Leo)

The spectral type is G0. Photoelectric observations show a primary minimum 0^m7 deep and secondary about 0^m6. The eclipses are three hours in duration.

A full report will be published at the end of the observing season.

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