

COMMISSION 27 OF THE I. A. U.
INFORMATION BULLETIN ON VARIABLE STARS

Number 759

Konkoly Observatory
Budapest
1973 January 23

PHOTOELECTRIC OBSERVATIONS OF EV LAC
DURING THE 1972, SEPTEMBER 1-15 INTERNATIONAL PATROL

According to the observing schedule of cooperative observations proposed by the IAU Working Group on flare stars (P.F. Chugainov 1971, IBVS No. 605), EV Lac was patrolled at the Catania Astrophysical Observatory for about 17.5 hours. The observations were carried out with a 61 cm universal type reflector feeding a synchronous u, b, v photometer.

The detailed coverage intervals are given in Table 1. Three flares have been observed and their characteristics are reported in Table 2. The light curves of the observed flares in U, B, V are shown in figures 1, 2 and 3.

The explanation of symbols and details both on the observing equipment and on the Catania photometric system can be found on Cristaldi S. and Rodonò M., Astron. and Astrophys. Suppl. 10, 1973.

M. Consoli, C. Lo Presti, F. Spinella have collaborated to the present work.

Catania Astrophysical Observatory
December 29, 1972

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Table 1

Date 1972	Tel.	Light	Coverage (U.T.)	Total coverage	$\overline{3\sigma/I_0}$
1 Sep.	61	u,b,v	0000-0006; 0105-0143.	139	.16/.05/.03
3 "	61	u,b,v	2349-2400; 0000-0037; 0040-0302.	190	.16/.04/.03
9 "	61	u,b,v	2030-2050; 2052-2117; 2142-2215; 2218-2230; 2231-2254; 2255-2400; 0000-0007; 0010-0015; 0017-0103; 0142-0236; 0243-0259.	296	.17/.04/.03
10 "	61	u,b,v	2028-2057; 2124-2139; 2145-2229; 2230-2327; 0124-0226.	209	.19/.04/.03
12 "	61	u,b,v	1925-1950; 1952-2056; 2110-2132; 2141-2258; 2300-2337; 2339-2400; 0000-0003; 0008-0036.	217	.20/.07/.04

Table 2

no.	Tel.	Light	t_{\max} 1972 Sep.	U.T. JD 244157.	d_b	d_a	$3\sigma/I_0$	or $(\frac{I_f}{I_0})_{\max}$	$\frac{\text{Energy}}{P}$ erg	Air mass	f sky	
1	61	U	11.235740		0.3	9.2	0.37	9.25	15.60	4.90×10^{31}	0	
		B	235730	2.5020	0.2	9.3	0.09	1.38	2.89	6.35×10^{31}	0.86	1
		V	235740		0.1	5.9	0.04	0.41	0.51	2.52×10^{31}	0	
2	61	U	12.024760		0.6	15.9	0.39	2.35	11.64	3.68×10^{31}	0	
		B	024790	2.6205	0.2	3.9	0.09	0.54	1.23	2.71×10^{31}	1.27	1
		V	024810		1.0	1.7	0.05	0.12	0.27	1.36×10^{31}	0	
3	61	U	12.214690		1.0	8.6	0.56	3.51	7.64	2.41×10^{31}	0	
		B	214650	3.4113	1.3	4.0	0.12	0.56	1.80	3.97×10^{31}	0.82	1
		V	214660		1.5	0.6	0.05	0.15	0.06	0.29×10^{31}	0	

