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PHOTOELECTRIC MINIMA OF SOME ECLIPSING BINARY STARS

MÜYESSEROĞLU, Z.¹; TÖRÜN, E.¹; ÖZDEMİR, T.²; GÜROL, B.;¹ ÖZAVCI, İ.¹; TUNÇ, T.¹;
KAYA, F.¹

¹ Ankara University, Faculty of Science, Department of Astronomy and Space Sciences, 06100, Tandoğan, Ankara, Turkey; e-mail: muyes@astro1.science.ankara.edu.tr

² İnönü University, Faculty of Arts and Sciences, Department of Physics, 44069 Malatya, Turkey

Observatory and telescope:

30-cm Maksutov telescope of the Ankara University Observatory (ANK) and 40-cm Cassegrain telescope of the TÜBİTAK[†] National Observatory (TUG).

Detector:

OPTEC SSP-5A photometer containing a side-on R1414 Hamamatsu photomultiplier at ANK and R4457 Hamamatsu photomultiplier at TUG.

Method of data reduction:

Reduction of the observations were made in the usual way (Hardie, 1962).

Method of minimum determination:

Times of minima were determined by the method of Kwee and van Woerden (1956).

Observed star(s):

Star name	GCVS type	Coordinates (J2000)		Comp. star	Ephemeris		Source
		RA	Dec		E 2400000+	P [day]	
V346 Aql	EA	20 09 59	+10 20 49	SAO 105777	41918.3840	1.106363	1
BW Boo	EA	14 37 05	+35 54 52	GSC 2560-0297	40362.9026	3.332821	1
BO CVn	EW	13 59 08	+40 49 09	SAO 044840	46895.4483	0.517462	2
CV Cyg	EW	19 54 21	+38 02 50	GSC 3137-0121	24454.4160	0.983431	3
AR Dra	EA	12 16 37	+64 52 45	GSC 4158-1275	42868.9114	0.675838	1
SV Equ	EW	20 57 19	+05 48 52	GSC 0525-1019	50324.0880	0.880972	4
AQ Psc	EW	01 21 03	+07 36 23	BD +06°0197	44562.4691	0.475640	5
EQ Tau	EW	03 48 13	+22 19 24	GSC 1260-0575	52230.1309	0.341347	6
V Tri	EB	01 31 47	+30 21 58	GSC 2293-1224	48573.6604	0.585206	7
GR Vir	EW	14 45 20	-06 44 04	GSC 4998-0877	45665.6415	0.346979	8
BS Vul	EB	19 37 27	+21 55 50	GSC 1614-0029	43271.5780	0.475971	1

Source(s) of the ephemeris:

1.: Kholopov et al., 1985; 2.: Albayrak et al., 2001; 3.: Hegedüs, 1991; 4.: Rucinski and Lu, 1999; 5.: Sarma and Radhakrishnan, 1982; 6.: Yang and Liu, 2002; 7.: Kreiner et al., 2001; 8.: Cereda et al., 1988

[†]TÜBİTAK : The Scientific and Technical Research Council of Turkey

Times of minima:						
Star name	Time of min. HJD 2400000+	Error	Type	Filter	$O - C$ [day]	Rem.
V346 Aql	52486.3536	0.0002	I	<i>BVR</i>	-0.0098	TÖ/TUG
BW Boo	52054.4301	0.0019	I	<i>BV</i>	-0.0086	ZM/ANK
	52454.3711	0.0008	I	<i>UBV</i>	-0.0061	ET/ANK
BO CVn	52740.4401	0.0011	II	<i>UBV</i>	+0.0034	ZM/ANK
CV Cyg	52838.4722	0.0023	I	<i>UBV</i>	+0.2765	ET/ANK
	52845.3675	0.0019	I	<i>UBV</i>	+0.2877	TT/ANK
	52859.3702	0.0023	II	<i>UBV</i>	+0.0307	ET/ANK
	52871.4231	0.0014	I	<i>UBV</i>	-0.2093	ZM/ANK
AR Dra	52340.4553	0.0016	II	<i>BV</i>	+0.0193	ZM/TUG
	52341.4594	0.0002	I	<i>UBV</i>	+0.0096	ZM/TUG
SV Equ	52109.3781	0.0032	II	<i>BV</i>	+0.0003	TÖ/TUG
	52489.5202	0.0027	I	<i>BV</i>	+0.0030	BG/TUG
AQ Psc	52189.5488	0.0016	I	<i>BVR</i>	+0.1923	ZM/TUG
	52194.5459	0.0012	II	<i>BV</i>	+0.1952	ET/ANK
EQ Tau	52592.3005	0.0010	I	<i>BV</i>	+0.0003	ZM/TUG
	52592.4722	0.0006	II	<i>BV</i>	+0.0013	ZM/TUG
	52593.3250	0.0004	I	<i>BV</i>	+0.0007	ZM/TUG
V Tri	52190.5292	0.0026	II	<i>BVR</i>	+0.0050	ZM/TUG
	52201.3504	0.0005	I	<i>BV</i>	-0.0002	BG/ANK
	52485.4720	0.0024	II	<i>BVR</i>	+0.0041	TÖ/TUG
	52490.4437	0.0003	I	<i>BVR</i>	+0.0015	BG/TUG
GR Vir	52761.3401	0.0008	II	<i>BV</i>	+0.1556	ET/ANK
	52761.5185	0.0011	I	<i>BV</i>	+0.1606	ET/ANK
	52782.4280	0.0025	II	<i>BV</i>	+0.0778	FK/ANK
	52796.3861	0.0006	II	<i>BV</i>	+0.1567	ET/ANK
	52824.3191	0.0006	I	<i>BV</i>	+0.1580	İÖ/ANK
BS Vul	52803.3674	0.0011	I	<i>UBV</i>	-0.0153	TT/ANK
	52817.4134	0.0018	II	<i>UBV</i>	-0.0104	İÖ/ANK
	52831.4485	0.0005	I	<i>UBV</i>	-0.0165	FK/ANK

Explanation of the remarks in the table:

Observer(s)/Instrument: TÖ: Özdemir, T.; ZM: Müyesseroğlu, Z.; ET: Törün, E.; TT: Tunç, T.; FK: Kaya, F.; İÖ: Özavcı, İ. / ANK: Ankara University Observatory; TUG: TÜBİTAK National Observatory

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