

COMMISSIONS 27 AND 42 OF THE IAU
INFORMATION BULLETIN ON VARIABLE STARS

Number 5801

Konkoly Observatory
Budapest

11 October 2007

HU ISSN 0374 – 0676

PHOTOELECTRIC MINIMA OF SOME ECLIPSING BINARY STARS

KILIÇOĞLU, T.; BAŞTÜRK, Ö.; ŞENAVCI, H. V.; YILMAZ, M.; TANRIVERDİ, T.; ALAN, N.; SİPAHIOĞLU, S.; AYDIN, G.; ÇELİK, L.; ÇALIŞKAN, Ş.; ELMASLI, A.; GÖKAY, G.; ÇAKAN, D.; DEMİRCAN, Y.; EKMEKÇİ, F.; SELAM, S. O.; YÜCE, K.; ALBAYRAK, B.

Ankara University Observatory, 06837, Ahlatlıbel, Ankara, TURKEY
e-mail: tolgahan@astro1.science.ankara.edu.tr

Observatory and telescope:

30-cm Maksutov telescope of the Ankara University Observatory

Detector:

OPTEC SSP-5A photoelectric photometer (uncooled)
containing a side-on R1414 Hamamatsu photomultiplier.

Method of data reduction:

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

Method of minimum determination:

The minima times were calculated using Kwee & van Woerden's (1956) method.

Times of minima:

Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
V417 Aql	54297.4312	0.0003	II	BV	Sb ₃ -ÇI ₃
	54299.4671	0.0003	I	BV	Ul-Er
AC Boo	54189.4124	0.0001	I	BV	Cv-Sy
TZ Boo	54194.4432	0.0007	I	BV	ÇI-Çv
	54228.3272	0.0004	I	BV	Ps-KI ₃
	54235.4587	0.0010	I	BV	Gr-Bl ₃
MR Cyg	54343.3918	0.0006	II	BV	Gk-I ₃
V2150 Cyg	54278.4673	0.0008	I	BV	Ul-Svm
	54286.4548	0.0007	I	BV	Çt-Çkn
	54310.4339	0.0007	II	BV	Ay-Alt
	54331.4269	0.0004	I	BV	Bn-Ay
	54344.4355	0.0016	I	BV	Cv-Erd
	54366.3528	0.0005	I	BV	Tr-Ay

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
V836 Cyg	54306.4192	0.0005	I	<i>BV</i>	Svm-Er
	54336.4772	0.0003	I	<i>BV</i>	B _ş -Sv
DM Del	54289.3915	0.0004	I	<i>BV</i>	Dm-Dmr
	54316.4224	0.0004	I	<i>BV</i>	Sp-Kl
AK Her	54245.3765	0.0003	I	<i>BV</i>	Ak-Şn
	54274.4626	0.0003	I	<i>BV</i>	B _ş -El
	54296.3785	0.0005	I	<i>BV</i>	Bn-Ay
	54300.3867	0.0004	II	<i>BV</i>	Çöl-Şn
TX Her	54302.4079	0.0004	II	<i>BV</i>	Cv-Kl
V842 Her	54157.4921	0.0005	I	<i>BV</i>	Çlk-Aln
	54207.3614	0.0010	I	<i>BV</i>	Klç-Blg
	54212.3870	0.0004	I	<i>BV</i>	Trn-Dmr
	54292.4257	0.0005	I	<i>BV</i>	Svm-Ul
SW Lac	54338.5017	0.0005	I	<i>BV</i>	Alt-Dm
	54346.3565	0.0002	II	<i>BV</i>	Şnv-Tn
	54346.5184	0.0001	I	<i>BV</i>	Tn-Gr
	54351.4887	0.0002	II	<i>BV</i>	Sp-Erd
	54357.4225	0.0002	I	<i>BV</i>	Çk-Ür
	54363.3555	0.0002	II	<i>BV</i>	B _ş -Çk
	54363.5163	0.0001	I	<i>BV</i>	Ylm-Tn
	54364.3168	0.0002	II	<i>BV</i>	Şnv-Bğ
	54364.4785	0.0001	I	<i>BV</i>	Tn-Bğ
AM Leo	54184.4644	0.0003	II	<i>BV</i>	Ylm-Trn
	54195.4391	0.0004	II	<i>BV</i>	Şh-Çt
	54226.3504	0.0004	I	<i>BV</i>	Alt-Bn
XY Leo	54098.5661	0.0003	II	<i>BV</i>	Trn-Dv
	54198.4287	0.0003	I	<i>BV</i>	Alt-Dmr
V451 Oph	54253.3641	0.0005	I	<i>BV</i>	Ul-Erd
	54265.4574	0.0006	II	<i>BV</i>	Çkn-Bb
V566 Oph	54279.3865	0.0003	I	<i>BV</i>	Çt-Şhn
	54290.4463	0.0004	I	<i>BV</i>	Çlş-Çlk
	54305.3994	0.0003	II	<i>BV</i>	Klç-Gr
	54351.4659	0.0005	I	<i>BV</i>	Gr-Ylm
DI Peg	54335.4878	0.0002	I	<i>BV</i>	Çkn-Şa
V781 Tau	54166.3319	0.0004	I	<i>BV</i>	Çl-Ays
AH Vir	54285.3108	0.0005	I	<i>BV</i>	El-Ays
Z Vul	54284.3550	0.0003	I	<i>BV</i>	Çl-Çkr
	54322.4097	0.0007	II	<i>BV</i>	Iş-Sv

Explanation of the remarks in the table:

Observers: Ak: M. Akdamar, Aln: N. Alan, Alt: B. Altuntaş, Ay: G. Aydın, Ays: G. Aysan, Bb: B. Babaoğlu, Bğ: N. Bağiran, Blg: D. Bilgiç, Bn: A.K. Bingöl, Bş: Ö. Baştürk, Cv: E. Civelek, Çk: A. Çelik, Çkn: D. Çakan, Çkr: T.D. Çakır, Çl: T. Çolak, Çlk: L. Çelik, Çlş: Ş. Çalışkan, Çöl: E. Çöl, Çt: Y. Çetni, A.Ö. Çavuş, Dm: E. Demirci, Dmr: U. Demirhan, Dv: O. Deveci, El: A. Elmash, Er: G. Ergan, Erd: G. Erdoğan, Gk: G. Gökay, Gr: H. Gürsoytrak, Iş: E. Işık, Kl: C. Kılıç, Klç: T. Kılıçoğlu, Ps: Ç. Püsküllü, Sbs: B. Subaşı, Sp: S. Sipahioğlu, Sv: B. Savran, Svm: S. Sevim, Sy: S. Saydam, Şa: Ş. Şahin, Şh: Z.S. Şahin, Şhn: E. Şahiner, Şn: Y. Şendağ, Şnv: H. V. Şenavcı, Tn: T. Tanrıverdi, Tr: Z. Terzioğlu, Trn: E. Törün, Ul: N.D. Uluş, Ür: Y. Üre, Ylm: M. Yılmaz.

Acknowledgements:

We would like to thank all observers at the Ankara University Observatory.

References:

- Hardie, R.H., 1962, in *Astronomical Techniques*, Chicago University Press, ed. Hiltner, W.A.
 Kwee, K.K., van Woerden, H., 1956, *BAN*, **12**, 327