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MINIMA TIMES OF SOME ECLIPSING BINARY STARS

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Observatory and telescope:

AUO1 and AUO2: 30-cm Maksutov telescope of the Ankara University Observatory.
TUG1: 40-cm Cassegrain-Schmidt telescope of the Turkish National Observatory.
TUG2: 40-cm Meade LX200-GPS telescope of the Tubitak National Observatory.

Detector:

Before 29 September 1992 the observations made with EMI9789QB photomultiplier tube. After that time we used OPTEC SSP-5A photometer containing a side-on R1414 Hamamatsu photomultiplier for AUO1 and AUO2 respectively. Ap7p and ST8-E CCD cameras were used for TUG1 and TUG2 respectively.

Method of data reduction:

Reduction of the AUO observations were made in the usual way (Hardie 1962). We used the MaxIm DL software for the reduction of the TUG data.

Method of minimum determination:

The minima times were computed by Kwee & van Woerden (1956) method.

Acknowledgements:

We are grateful to TÜBİTAK National Observatory and Ankara University Observatory for use of the telescope time allocation and other facilities.

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
LO And	53215.4797	0.0003	I	<i>BV</i>	AUO2, BG
44i Boo	47634.4403	0.0005	I	<i>UBV</i>	AUO1, ZM
	47635.5157	0.0002	I	<i>UBV</i>	AUO1, SOS
	47635.3826	0.0002	II	<i>UBV</i>	AUO1, SOS
	47640.4683	0.0004	II	<i>UBV</i>	AUO1, ZM
	47691.3562	0.0008	II	<i>UBV</i>	AUO1, SOS
	47692.4247	0.0004	II	<i>BV</i>	AUO1, FFÖ
	47697.3767	0.0003	I	<i>UBV</i>	AUO1, GK
	47697.5125	0.0004	II	<i>UBV</i>	AUO1, GK
	47960.3747	0.0001	I	<i>UBV</i>	AUO1, BG
	47960.5099	0.0005	II	<i>UBV</i>	AUO1, BG
	47962.5213	0.0008	I	<i>BV</i>	AUO1, GK
	47988.4949	0.0004	I	<i>BV</i>	AUO1, SOS
	48019.4285	0.0004	II	<i>UBV</i>	AUO1, ZM
	48049.4262	0.0006	II	<i>UBV</i>	AUO1, GK
	48049.2943	0.0004	I	<i>UBV</i>	AUO1, GK
	48050.3625	0.0002	I	<i>UBV</i>	AUO1, SOS
	48050.4949	0.0003	II	<i>BV</i>	AUO1, SOS
	48051.4327	0.0003	I	<i>BV</i>	AUO1, FFÖ
	48430.3967	0.0007	I	<i>BV</i>	AUO1, BA
	48431.3377	0.0002	II	<i>BV</i>	AUO1, BG
	48431.4695	0.0004	I	<i>BV</i>	AUO1, BG
	48433.3444	0.0004	I	<i>BV</i>	AUO1, AA
	48727.4089	0.0001	I	<i>UBV</i>	AUO1, HD
	48727.5438	0.0002	II	<i>UBV</i>	AUO1, HD
	48730.4898	0.0003	II	<i>UBV</i>	AUO1, ZM
	48761.4220	0.0001	I	<i>UBV</i>	AUO1, FE
	49109.5898	0.0001	I	<i>UBV</i>	AUO2, ZM
	49139.4487	0.0002	II	<i>UBV</i>	AUO2, SOS
	49139.3165	0.0001	I	<i>UBV</i>	AUO2, SOS
	49142.3936	0.0001	II	<i>UBV</i>	AUO2, ZM
	49944.3826	0.0004	I	<i>BV</i>	AUO2, SOS
	49945.3209	0.0001	II	<i>BV</i>	AUO2, BG
	50206.3100	0.0002	I	<i>BV</i>	AUO2, BG
	50245.4112	0.0003	I	<i>UBV</i>	AUO2, SOS
	50246.4824	0.0002	I	<i>BV</i>	AUO2, BG
	50248.4898	0.0002	II	<i>BV</i>	AUO2, ZM
	52031.5014	0.0001	I	<i>BV</i>	AUO2, LG-UA
	52052.5184	0.0001	II	<i>BV</i>	AUO2, LG-UA
	52073.4135	0.0004	II	<i>BV</i>	AUO2, LG-UA
	52108.3639	0.0001	I	<i>UBV</i>	AUO2, LG-UA
	52318.4627	0.0001	II	<i>BV</i>	AUO2, LG-MK
	52500.3167	0.0003	II	<i>BV</i>	AUO2, MK-LG
	52745.5027	0.0001	I	<i>BV</i>	AUO2, AT-MK
	52759.5605	0.0001	II	<i>UBV</i>	AUO2, AT-TE

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
FG Hya	53445.4428	0.0003	II	<i>BVR</i>	TUG1, GG-RK
XX LMi	53474.4515	0.0003	I	<i>BVR</i>	TUG1, US-NÖ
DI Peg	52843.5166	0.0002	I	<i>BV</i>	AUO2, LG-TE
CU Sge	53169.4984	0.0002	II	<i>BV</i>	AUO2, BG-ZM
AU Ser	53215.3608	0.0002	I	<i>BV</i>	AUO2, BG
HD 65498	53446.4341	0.0002	I	<i>BVR</i>	TUG1, YD-GG
	53448.4039	0.0002	II	<i>BVR</i>	TUG1, YD-GG
BD+42 2782	54215.5055	0.0000	II	<i>BVR</i>	TUG2, DC-BE
	54216.4314	0.0001	I	<i>BR</i>	TUG2, DC-BE
GSC 1174-0344	54045.4107	0.0002	I	<i>BVR</i>	TUG2, GG-GG1
	54046.3821	0.0002	II	<i>BVR</i>	TUG2, GG-GG1
GSC 2765-0348	53302.3008	0.0003	II	<i>BVR</i>	TUG1, NÖ-GS
	53302.4426	0.0002	I	<i>BVR</i>	TUG1, NÖ-GS
	53302.5844	0.0003	II	<i>VR</i>	TUG1, NÖ-GS
GSC 2751-1007	53300.4014	0.0002	I	<i>BVR</i>	TUG1, NÖ-GS
	53301.2365	0.0001	I	<i>BVR</i>	TUG1, NÖ-GS
	53301.4443	0.0001	II	<i>BVR</i>	TUG1, NÖ-GS

Explanation of the remarks in the table:

Remark gives observatory and the observers as BG: B. Gürol, ZM: Z. Müyesseroğlu, SOS: S.O. Selam, FFÖ: F.F. Özeren, GK: G. Kahraman, BA: B. Albayrak, AA: A. Akalın, HD: H. Dündar, FE: F. Ekmekçi, LG: L. Gürdemir, MK: M. Kırca, UA: U. Akçay, AT: A. Tunç, TE: T. Elmas, GG: G. Gökay, GG1: G. Gülnaz, NÖ: N. Özbek, RK: R. Kalcı, US: U. Sağır, YD: Y. Demircan, GS: G. Salman, DÇ: D. Çoker, BE: B. Eminoglu.
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Remarks:

The times of minima are weighted averages from all filters observed.
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- Kwee, K. K., & van Woerden, H., 1956, *Bull. Astron. Inst. Neth.*, **12**, 327.