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The Optical Gravitational Lensing Experiment. The Catalog of Periodic Variable Stars in the Galactic Bulge. III. Periodic Variables in Four Baade's Window Fields: BW5, BW6, BW7 and BW8*

by

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ABSTRACT

We present the third part of the OGLE Catalog of Periodic Variable Stars in the Galactic bulge. 644 variable stars: 64 pulsating, 352 eclipsing and 228 miscellaneous type were detected in four Baade's Window fields BW5, BW6, BW7 and BW8.

Analysis of periodic variable stars found in overlapping regions of the Baade's Window fields yields an average completeness of the Catalog equal to about 80% of periodic variable objects registered in the OGLE databases and about 65% of all periodic variable stars in the observed region of the sky.

The Catalog and individual observations are available in digital form from the OGLE Internet archive.

Key words: *Catalogs – Stars: variables*

1. Introduction

The Optical Gravitational Lensing Experiment (OGLE) is a long term observing project with the main goal of searching for dark matter in our Galaxy with

* Based on observations obtained at the Las Campanas Observatory of the Carnegie Institution of Washington

microlensing phenomena (Paczyński 1986). After four seasons 1992–1995 of observations toward the Galactic bulge 19 microlensing events have been detected (*e.g.*, Udalski *et al.* 1994b).

The huge database of photometric observations collected for the microlensing search is a unique resource for studying stellar variability. Large number of detected variable stars, in some cases significantly exceeding the number of all previously known variables of a given type, should considerably contribute to our knowledge about origin and evolution of different classes of variable stars and about structure and evolution of our Galaxy. For example, preliminary analysis of W UMa-type stars from the first part of the OGLE catalog has already been performed by Rucinski (1995).

This paper concludes our search in the main section of the Baade's Window. The first two parts of the OGLE Catalog of Periodic Variable Stars have already been published (Udalski *et al.* 1994c, 1995a; hereafter referred as Paper I and II). This paper presents variable stars from the next four fields: BW5, BW6, BW7 and BW8 (Udalski *et al.* 1994a) in a similar form as in the previous parts of the Catalog. Variable stars from three additional fields, BW9, BW10 and BW11 located close to the main Baade's Window fields will be presented in the next part of the Catalog, thus concluding the OGLE search for variable stars in the direction of the Baade's Window.

2. The Catalog

The photometric data presented here were collected during three observing seasons of the OGLE microlensing search starting on May 7, 1992 and ending on September 16, 1994. Full logs of observations can be found in Udalski *et al.* (1992, 1994a, 1995b). Observations were made at Las Campanas Observatory, Chile which is operated by Carnegie Institution of Washington. 1-m Swope telescope equipped with 2048 $\times$ 2048 Ford/Loral CCD detector was used. Details of the data pipeline, reduction technique and period search technique can be found in Paper I.

Table 1

Coordinates of BW5, BW6, BW7 and BW8 fields.

Field	α_{2000}	δ_{2000}	l	b
BW5	$18^{h}02^{m}24^{s}$	$-30^{\circ}02'05''$	0.9	–3.7
BW6	$18^{h}03^{m}24^{s}$	$-30^{\circ}15'05''$	0.8	–4.0
BW7	$18^{h}04^{m}24^{s}$	$-30^{\circ}02'05''$	1.1	–4.1
BW8	$18^{h}03^{m}24^{s}$	$-29^{\circ}49'05''$	1.2	–3.8

The present edition of the Catalog contains periodic variable stars with $\langle I \rangle$ brighter than 18 mag. In the following updates the Catalog will be extended toward fainter stars. There is also a lower limit of magnitude: $I \approx 14$ – resulting from saturation of stellar images on CCD frames. The period search was limited to periods within 0.1–100 days range.

This part of the Catalog presents variable stars from four Baade's Window fields: BW5, BW6, BW7 and BW8. Each of the fields covers approximately $15' \times 15'$ on the sky. Equatorial and galactic coordinates of these fields are given in Table 1. Each of BW5–BW8 fields overlaps (about $1'$) with the neighboring fields. The variable stars discovered in the overlapping areas during the search of previous fields are not presented here to avoid ambiguity (see Section 4).

The structure of the Catalog is identical as in the previous parts (Paper I and II). Detected variable stars from each field are grouped into three categories: pulsating stars, eclipsing stars and miscellaneous type variables. The latter category consists of stars which cannot be classified unambiguously as pulsating or eclipsing stars. It contains mostly late type, chromospherically active stars, and likely some ellipsoidal variables.

For every field and group of stars the Catalog consists of a table with basic parameters for every periodic variable object and an atlas containing the phased light curves and $30'' \times 30''$ finding charts – part of the I-band frames. North is up and East is to the left on these charts.

The basic parameters for every object include star designation, right ascention and declination (J2000), period in days and heliocentric Julian Date of maximum light (minimum for eclipsing variables), I magnitude at maximum brightness, $V-I$ color at maximum brightness, I-band amplitude, classification and optional remarks.

Designations of objects follow the scheme introduced in Paper I: OGLE *field* V*number*, *e.g.*, OGLE BW5 V55. The variable stars in every field are initially sorted according to increasing magnitude. Thus lower number means brighter star.

The equatorial coordinates of variable stars were calculated using transformation derived from position of stars from the HST Guide Star Catalog (Lasker *et al.* 1988). Typically about 15-20 GSC stars were identified in each field. The relative accuracy of coordinates is about $0.''2$ while the absolute accuracy is worse – about $1''$.

Because of strategy adopted in the microlensing search, the vast majority of measurements was obtained in the I-band (typically 90–180 observations). Only about 10 or less V-band measurements were collected for each field. Thus, the $V-I$ color at maximum light is accurate to 0.05 mag. In particular BW7 and BW8 fields suffer from small number of V-band observations and colors of stars from these fields are even less accurate – about 0.1 mag. In some cases the color is not given – it could not be derived because either V-band coverage around maximum was not good enough or the star could not have been identified in the V-band database. All OGLE fields were observed much more often in V-band during the 1995 observing season to improve color information for variable stars. Color data will be updated in the next release of the Catalog.

Classification within pulsating and eclipsing star groups follows the scheme of the General Catalog of Variable Stars (Kholopov *et al.* 1985).

3. Catalog of Periodic Variable Stars of the BW5, BW6, BW7 and BW8 Fields

Tables 2–13 and Appendices A–L contain the catalog of pulsating, eclipsing and miscellaneous periodic stars for fields BW5, BW6, BW7 and BW8, respectively.

64 variable stars were classified as pulsating. Most of them are RR Lyr stars type ab and c. The remaining objects are short period δ Sct type pulsating stars. The periods of some of them fall below the lower limit (0.1 day) of period search, but these stars were identified with $2\times P$ period. Thus they probably do not represent a complete sample of this type of stars in the Baade's Window.

T a b l e 2

Pulsating Variable Stars in the BW5 field

Star ID OGLE	α_{2000}	δ_{2000}	P	T_0 – 2 448 000	I	$(V-I)$	ΔI	Type	Remarks
BW5 V13	$18^{h}02^{m}32.^{s}44$	$-29^{\circ}58'56.''2$	$0.^{d}49492$	724.1100	$15.^{m}13$	$0.^{m}87$	$0.^{m}90$	RRab	Blanco13
BW5 V17	$18^{h}02^{m}47.^{s}51$	$-30^{\circ}02'31.''4$	$0.^{d}27929$	724.7129	$15.^{m}32$	$0.^{m}94$	$0.^{m}32$	RRc	Blanco26
BW5 V24	$18^{h}02^{m}33.^{s}43$	$-29^{\circ}59'22.''2$	$0.^{d}55213$	724.4735	$15.^{m}43$	$1.^{m}04$	$0.^{m}56$	RRab	Blanco14
BW5 V28	$18^{h}02^{m}35.^{s}37$	$-30^{\circ}00'13.''9$	$0.^{d}46723$	724.3527	$15.^{m}55$	$0.^{m}92$	$0.^{m}81$	RRab	Blanco16
BW5 V29	$18^{h}02^{m}22.^{s}21$	$-30^{\circ}00'31.''4$	$0.^{d}47361$	724.4192	$15.^{m}57$	$1.^{m}03$	$0.^{m}78$	RRab	
BW5 V34	$18^{h}02^{m}15.^{s}88$	$-30^{\circ}05'09.''1$	$0.^{d}49027$	724.4279	$15.^{m}68$	–	$0.^{m}78$	RRab	
BW5 V36	$18^{h}02^{m}39.^{s}21$	$-30^{\circ}07'06.''9$	$0.^{d}59451$	724.3980	$15.^{m}70$	$1.^{m}26$	$0.^{m}38$	RRab	Blanco19
BW5 V39	$18^{h}02^{m}07.^{s}94$	$-30^{\circ}06'24.''5$	$0.^{d}50786$	724.2947	$15.^{m}81$	$1.^{m}33$	$0.^{m}79$	RRab	
BW5 V40	$18^{h}02^{m}18.^{s}59$	$-30^{\circ}05'33.''0$	$0.^{d}32586$	724.6380	$15.^{m}85$	$1.^{m}30$	$0.^{m}32$	RRc	
BW5 V43	$18^{h}02^{m}20.^{s}86$	$-30^{\circ}05'08.''2$	$0.^{d}45997$	724.5930	$15.^{m}89$	$1.^{m}36$	$0.^{m}17$	RRc	
BW5 V50	$18^{h}02^{m}18.^{s}99$	$-29^{\circ}56'54.''0$	$0.^{d}49635$	724.3563	$15.^{m}99$	$1.^{m}09$	$0.^{m}73$	RRab	
BW5 V84	$18^{h}01^{m}57.^{s}22$	$-30^{\circ}06'21.''1$	$0.^{d}117862$	724.8438	$16.^{m}55$	$1.^{m}21$	$0.^{m}19$	DSCT	
BW5 V107	$18^{h}01^{m}54.^{s}27$	$-30^{\circ}00'49.''3$	$0.^{d}079169$	724.8960	$17.^{m}00$	$1.^{m}27$	$0.^{m}35$	DSCT	
BW5 V117	$18^{h}02^{m}14.^{s}78$	$-30^{\circ}03'00.''1$	$0.^{d}077171$	724.8959	$17.^{m}14$	$1.^{m}26$	$0.^{m}23$	DSCT	
BW5 V121	$18^{h}02^{m}44.^{s}17$	$-29^{\circ}56'37.''1$	$0.^{d}061193$	724.9622	$17.^{m}26$	$0.^{m}86$	$0.^{m}46$	DSCT	
BW5 V126	$18^{h}01^{m}49.^{s}15$	$-30^{\circ}06'29.''5$	$0.^{d}097844$	724.9259	$17.^{m}32$	$1.^{m}40$	$0.^{m}43$	DSCT	
BW5 V135	$18^{h}01^{m}47.^{s}08$	$-29^{\circ}58'28.''2$	$0.^{d}58825$	724.5299	$17.^{m}44$	$1.^{m}71$	$0.^{m}47$	RRab	
BW5 V174	$18^{h}02^{m}01.^{s}14$	$-29^{\circ}56'25.''7$	$0.^{d}56146$	724.8943	$18.^{m}45$	$1.^{m}21$	$0.^{m}83$	RRab	

Although we limited our search to $I=18$ mag, the list of pulsating stars includes one fainter object OGLE BW5 V174. The star has been found in the preliminary search extending our Catalog below $I=18$ and it is the only one pulsating star found. It is a typical RR Lyr type star and its faintness and color suggest that it is located far behind the center of the Galaxy, very likely in the Sagittarius dwarf spheroidal galaxy (Mateo *et al.* 1995).

Table 3

Pulsating Variable Stars in the BW6 field

Star ID OGLE	α_{2000}	δ_{2000}	P	T_0 – 2 448 000	I	$(V-I)$	ΔI	Type	Remarks
BW6 V7	$18^h03^m05^s.16$	$-30°20'29''.9$	$0^d.52501$	724.4340	$14^m.92$	$1^m.02$	$0^m.86$	RRab	
BW6 V12	$18^h03^m20^s.32$	$-30°18'30''.0$	$0^d.55603$	724.0623	$15^m.16$	$0^m.98$	$0^m.81$	RRab	
BW6 V15	$18^h03^m11^s.87$	$-30°12'04''.7$	$0^d.55745$	724.6839	$15^m.29$	$1^m.57$	$0^m.43$	RRab	
BW6 V17	$18^h03^m09^s.54$	$-30°11'56''.7$	$0^d.65163$	724.1753	$15^m.35$	$1^m.28$	$0^m.46$	RRab	Blanco42
BW6 V18	$18^h03^m43^s.33$	$-30°18'44''.9$	$0^d.54140$	724.5448	$15^m.37$	$1^m.06$	$0^m.88$	RRab	
BW6 V20	$18^h03^m08^s.16$	$-30°17'47''.8$	$0^d.39370$	724.6222	$15^m.40$	$1^m.35$	$0^m.88$	RRab	
BW6 V27	$18^h03^m42^s.18$	$-30°20'43''.4$	$0^d.58400$	724.2108	$15^m.55$	$1^m.28$	$0^m.42$	RRab	
BW6 V29	$18^h03^m39^s.82$	$-30°22'03''.7$	$0^d.56290$	724.4236	$15^m.62$	$1^m.37$	$0^m.53$	RRab	
BW6 V30	$18^h02^m59^s.99$	$-30°21'28''.0$	$0^d.189025$	724.8733	$15^m.65$	$1^m.07$	$0^m.27$	DSCT	
BW6 V32	$18^h03^m09^s.76$	$-30°12'08''.0$	$0^d.31333$	724.6098	$15^m.69$	$1^m.04$	$0^m.31$	RRc	Blanco43
BW6 V35	$18^h03^m40^s.00$	$-30°19'53''.5$	$0^d.43124$	724.7057	$15^m.71$	$1^m.18$	$0^m.89$	RRab	
BW6 V36	$18^h03^m27^s.84$	$-30°19'04''.4$	$0^d.32026$	724.4470	$15^m.73$	$1^m.12$	$0^m.29$	RRc	
BW6 V44	$18^h03^m00^s.38$	$-30°19'51''.3$	$0^d.24855$	724.7502	$15^m.90$	$1^m.03$	$0^m.22$	RRc	
BW6 V46	$18^h03^m11^s.92$	$-30°18'46''.6$	$0^d.30942$	724.9704	$15^m.96$	$1^m.06$	$0^m.24$	RRc	
BW6 V83	$18^h03^m44^s.72$	$-30°18'59''.3$	$0^d.058052$	724.9623	$16^m.78$	$1^m.27$	$0^m.21$	DSCT	
BW6 V120	$18^h03^m46^s.55$	$-30°10'13''.8$	$0^d.049091$	724.7760	$17^m.34$	$0^m.88$	$0^m.20$	DSCT	

Table 4

Pulsating Variable Stars in the BW7 field

Star ID OGLE	α_{2000}	δ_{2000}	P	T_0 – 2 448 000	I	$(V-I)$	ΔI	Type	Remarks
BW7 V8	$18^h04^m19^s.61$	$-29°58'26''.0$	$0^d.50711$	724.6470	$14^m.83$	$0^m.94$	$0^m.77$	RRab	Blanco74
BW7 V15	$18^h04^m29^s.52$	$-30°01'06''.9$	$0^d.49708$	724.3331	$15^m.13$	$0^m.84$	$0^m.79$	RRab	Blanco80
BW7 V18	$18^h04^m36^s.08$	$-30°05'32''.3$	$0^d.66695$	724.9513	$15^m.15$	–	$0^m.77$	RRab	
BW7 V20	$18^h03^m57^s.19$	$-30°06'04''.9$	$0^d.77051$	724.2748	$15^m.26$	$1^m.08$	$0^m.48$	RRab	Blanco68
BW7 V23	$18^h04^m41^s.59$	$-30°00'35''.3$	$0^d.60579$	724.1977	$15^m.33$	$1^m.26$	$0^m.31$	RRab	
BW7 V24	$18^h04^m53^s.29$	$-30°04'33''.2$	$0^d.26902$	724.5239	$15^m.40$	$1^m.18$	$0^m.32$	RRc	
BW7 V25	$18^h04^m28^s.37$	$-29°56'47''.9$	$0^d.52116$	724.5125	$15^m.42$	–	$0^m.69$	RRab	Blanco79
BW7 V30	$18^h04^m31^s.76$	$-30°02'39''.7$	$0^d.36202$	724.4922	$15^m.63$	–	$0^m.27$	RRc	Blanco81
BW7 V31	$18^h04^m23^s.44$	$-30°04'43''.5$	$0^d.29191$	724.6771	$15^m.68$	$0^m.99$	$0^m.27$	RRc	Blanco76
BW7 V33	$18^h04^m50^s.30$	$-30°07'50''.1$	$0^d.51122$	724.7827	$15^m.69$	–	$0^m.86$	RRab	
BW7 V48	$18^h04^m37^s.18$	$-30°01'25''.6$	$0^d.63862$	724.2736	$16^m.06$	$1^m.05$	$0^m.64$	RRab	
BW7 V51	$18^h04^m50^s.32$	$-30°06'30''.7$	$0^d.27215$	724.6484	$16^m.10$	–	$0^m.33$	RRc	
BW7 V64	$18^h04^m33^s.35$	$-29°59'05''.3$	$0^d.064369$	724.9732	$16^m.38$	$1^m.21$	$0^m.12$	DSCT	
BW7 V74	$18^h04^m50^s.79$	$-30°01'58''.9$	$0^d.100137$	724.9178	$16^m.53$	$1^m.15$	$0^m.11$	DSCT	
BW7 V79	$18^h04^m39^s.07$	$-29°58'38''.8$	$0^d.100940$	724.9268	$16^m.59$	$1^m.04$	$0^m.32$	DSCT	
BW7 V116	$18^h04^m39^s.52$	$-30°05'15''.7$	$0^d.095799$	724.8777	$17^m.15$	–	$0^m.35$	DSCT	
BW7 V117	$18^h04^m21^s.67$	$-30°00'27''.4$	$0^d.064985$	724.9671	$17^m.16$	$1^m.09$	$0^m.17$	DSCT	
BW7 V122	$18^h04^m22^s.74$	$-30°06'22''.1$	$0^d.078186$	724.9429	$17^m.27$	$1^m.12$	$0^m.22$	DSCT	

One of RR Lyr stars – OGLE BW5 V13 – exhibits extremely strong Blazhko effect. Based on observations from 1992 season only, one could have even misclassified the star because it showed only small amplitude (~ 0.15 mag) quasi-sinusoidal variations at that time. From 1993 season on the star behaves as typical RR Lyr type star with a large amplitude of about 0.9 mag.

Table 5

Pulsating Variable Stars in the BW8 field

Star ID OGLE	α_{2000}	δ_{2000}	P	$T_0 -$ 2 448 000	I	$(V-I)$	ΔI	Type	Remarks
BW8 V7	$18^h03^m00.^s58$	$-29^\circ53'51.''6$	$0.^d55454$	724.2597	$14.^m90$	$0.^m86$	$0.^m59$	RRab	Blanco34
BW8 V8	$18^h03^m25.^s16$	$-29^\circ44'22.''1$	$0.^d78117$	724.8672	$14.^m91$	–	$0.^m45$	RRab	
BW8 V15	$18^h03^m07.^s76$	$-29^\circ50'05.''7$	$0.^d57724$	724.1401	$15.^m11$	$0.^m92$	$0.^m59$	RRab	Blanco41
BW8 V16	$18^h02^m57.^s56$	$-29^\circ48'39.''3$	$0.^d42413$	724.6706	$15.^m12$	$1.^m02$	$0.^m84$	RRab	Blanco33
BW8 V18	$18^h03^m32.^s32$	$-29^\circ51'38.''3$	$0.^d70001$	724.0917	$15.^m21$	$1.^m13$	$0.^m35$	RRab	Blanco57
BW8 V20	$18^h03^m20.^s80$	$-29^\circ53'29.''3$	$0.^d67699$	724.2324	$15.^m24$	–	$0.^m32$	RRab	Blanco49
BW8 V26	$18^h03^m10.^s88$	$-29^\circ46'05.''1$	$0.^d61699$	724.9046	$15.^m38$	$1.^m22$	$0.^m21$	RRab	
BW8 V28	$18^h03^m17.^s84$	$-29^\circ42'37.''2$	$0.^d53525$	724.5256	$15.^m45$	$1.^m20$	$0.^m76$	RRab	
BW8 V34	$18^h03^m07.^s86$	$-29^\circ44'06.''3$	$0.^d32037$	724.9694	$15.^m54$	$1.^m03$	$0.^m31$	RRc	Blanco40
BW8 V35	$18^h02^m53.^s88$	$-29^\circ45'55.''6$	$0.^d64770$	724.1720	$15.^m55$	$1.^m27$	$0.^m16$	RRab	
BW8 V36	$18^h03^m04.^s23$	$-29^\circ48'34.''8$	$0.^d28612$	724.7311	$15.^m62$	–	$0.^m31$	RRc	Blanco38
BW8 V116	$18^h02^m55.^s19$	$-29^\circ51'40.''1$	$0.^d056094$	724.9586	$17.^m28$	$1.^m03$	$0.^m26$	DSCT	

Some of RR Lyr type stars in the Baade's Window were studied by Blanco (1984). 20 further objects from Blanco list were identified in the Catalog, one more was classified as W UMa type star (for remaining identified objects see Paper I and II). Cross-identification is given in "Remarks" column of appropriate tables.

352 eclipsing stars were identified in BW5–BW8 fields. The vast majority (251) of eclipsing objects belongs to W UMa type (EW). Among hundreds of examples of this type of variables we would like to specifically point out the shortest period W UMa type star found in our search. The object was listed in Paper II – OGLE BW3 V38, and was "rediscovered" during the BW5–BW8 fields search as it is located in the overlapping region of BW3 and BW7 fields. Its period – 0.19839 day – is the shortest period ever found for any W UMa type star.

76 Algol-type (EA) and 7 β Lyr-type (EB) stars were also identified. Many of Algol-type objects are detached systems ideal for precise determination of their parameters and distances with follow-up spectroscopic observations. 18 objects were classified as eclipsing (E) when we were not able to classify the star unambiguously.

The group of miscellaneous stars contains 228 objects from BW5–BW8 fields. Most of them are red giants and subgiants, probably chromospherically active stars. Some objects in this group might be ellipsoidal variables, as noted in the "Remarks" column. In such cases the period should be twice of that given in Tables 10–13.

8 objects which seem to be Mira-type or related type variables were also included to the miscellaneous group. Usually only a part of their light curves around minimum could be covered due to saturation of the detector. The periods of these objects are very approximate and light curves are roughly phased. Also a few very red variable stars similar to those described in Paper II were found.

Table 6

Eclipsing Variable Stars in the BW5 field

Star ID OGLE	α_{2000}	δ_{2000}	P	T_0- 2 448 000	I	$(V-I)$	ΔI	Type	Remarks
BW5 V6	$18^{\rm h}02^{\rm m}09.^{\rm s}60$	$-30^{\circ}06'18.''8$	$1.^{\rm d}06509$	723.3121	$14.^{\rm m}04$	$0.^{\rm m}82$	$0.^{\rm m}82$	EA	
BW5 V7	$18^{\rm h}02^{\rm m}44.^{\rm s}90$	$-29^{\circ}57'33.''0$	$0.^{\rm d}54179$	724.7449	$14.^{\rm m}33$	$0.^{\rm m}87$	$0.^{\rm m}33$	EW	
BW5 V8	$18^{\rm h}02^{\rm m}30.^{\rm s}87$	$-30^{\circ}01'54.''4$	$1.^{\rm d}33725$	723.7118	$14.^{\rm m}43$	$0.^{\rm m}92$	$0.^{\rm m}25$	EA	
BW5 V9	$18^{\rm h}01^{\rm m}52.^{\rm s}18$	$-30^{\circ}03'41.''2$	$1.^{\rm d}58848$	724.2722	$14.^{\rm m}44$	$1.^{\rm m}01$	$0.^{\rm m}11$	E	
BW5 V12	$18^{\rm h}02^{\rm m}04.^{\rm s}47$	$-29^{\circ}58'33.''9$	$3.^{\rm d}64792$	721.3959	$15.^{\rm m}08$	$1.^{\rm m}76$	$0.^{\rm m}73$	EA	
BW5 V21	$18^{\rm h}02^{\rm m}38.^{\rm s}42$	$-30^{\circ}03'26.''9$	$8.^{\rm d}40664$	717.5530	$15.^{\rm m}37$	$1.^{\rm m}87$	$0.^{\rm m}15$	EB	
BW5 V27	$18^{\rm h}02^{\rm m}35.^{\rm s}95$	$-30^{\circ}06'56.''7$	$115.^{\rm d}61990$	690.7133	$15.^{\rm m}51$	$2.^{\rm m}18$	$0.^{\rm m}22$	E	
BW5 V37	$18^{\rm h}02^{\rm m}08.^{\rm s}69$	$-30^{\circ}07'56.''9$	$0.^{\rm d}44128$	724.3373	$15.^{\rm m}70$	$1.^{\rm m}52$	$0.^{\rm m}23$	EW	
BW5 V38	$18^{\rm h}02^{\rm m}30.^{\rm s}46$	$-30^{\circ}05'54.''8$	$0.^{\rm d}30745$	724.9403	$15.^{\rm m}80$	$1.^{\rm m}32$	$0.^{\rm m}17$	EW	
BW5 V51	$18^{\rm h}02^{\rm m}28.^{\rm s}27$	$-30^{\circ}02'18.''8$	$0.^{\rm d}66512$	724.3955	$15.^{\rm m}99$	$1.^{\rm m}22$	$0.^{\rm m}29$	EW	
BW5 V55	$18^{\rm h}02^{\rm m}26.^{\rm s}98$	$-30^{\circ}07'08.''3$	$8.^{\rm d}43130$	712.1488	$16.^{\rm m}06$	$1.^{\rm m}56$	$0.^{\rm m}57$	EA	
BW5 V60	$18^{\rm h}02^{\rm m}32.^{\rm s}39$	$-30^{\circ}03'21.''9$	$8.^{\rm d}90285$	712.1924	$16.^{\rm m}08$	$1.^{\rm m}94$	$0.^{\rm m}20$	EB	
BW5 V66	$18^{\rm h}02^{\rm m}38.^{\rm s}47$	$-30^{\circ}01'43.''1$	$3.^{\rm d}85446$	722.4299	$16.^{\rm m}19$	$1.^{\rm m}39$	$0.^{\rm m}21$	EA	
BW5 V69	$18^{\rm h}02^{\rm m}05.^{\rm s}42$	$-30^{\circ}05'05.''4$	$10.^{\rm d}34302$	718.0133	$16.^{\rm m}28$	$2.^{\rm m}20$	$0.^{\rm m}22$	EA	
BW5 V70	$18^{\rm h}02^{\rm m}23.^{\rm s}21$	$-30^{\circ}01'14.''0$	$0.^{\rm d}32575$	724.7719	$16.^{\rm m}29$	$1.^{\rm m}55$	$0.^{\rm m}43$	EW	
BW5 V73	$18^{\rm h}02^{\rm m}13.^{\rm s}44$	$-29^{\circ}57'18.''5$	$0.^{\rm d}60590$	724.0711	$16.^{\rm m}33$	$1.^{\rm m}20$	$0.^{\rm m}19$	EW	
BW5 V75	$18^{\rm h}01^{\rm m}56.^{\rm s}57$	$-30^{\circ}01'05.''5$	$0.^{\rm d}64490$	724.5503	$16.^{\rm m}38$	$1.^{\rm m}71$	$0.^{\rm m}23$	EW	
BW5 V76	$18^{\rm h}02^{\rm m}39.^{\rm s}02$	$-30^{\circ}02'49.''1$	$0.^{\rm d}28343$	724.7231	$16.^{\rm m}41$	$1.^{\rm m}39$	$0.^{\rm m}13$	EW	
BW5 V77	$18^{\rm h}02^{\rm m}35.^{\rm s}22$	$-29^{\circ}57'27.''4$	$0.^{\rm d}35061$	724.4945	$16.^{\rm m}41$	$1.^{\rm m}36$	$0.^{\rm m}81$	EW	
BW5 V81	$18^{\rm h}02^{\rm m}18.^{\rm s}14$	$-29^{\circ}57'09.''5$	$0.^{\rm d}48757$	724.1902	$16.^{\rm m}46$	$2.^{\rm m}14$	$0.^{\rm m}14$	EW	
BW5 V82	$18^{\rm h}02^{\rm m}13.^{\rm s}96$	$-29^{\circ}57'36.''6$	$2.^{\rm d}21290$	722.7066	$16.^{\rm m}54$	$1.^{\rm m}40$	$0.^{\rm m}27$	EA	
BW5 V85	$18^{\rm h}02^{\rm m}06.^{\rm s}08$	$-30^{\circ}01'03.''5$	$2.^{\rm d}05045$	722.5470	$16.^{\rm m}54$	$1.^{\rm m}36$	$0.^{\rm m}26$	EA	
BW5 V88	$18^{\rm h}02^{\rm m}05.^{\rm s}18$	$-29^{\circ}59'24.''4$	$4.^{\rm d}63342$	720.2512	$16.^{\rm m}59$	$2.^{\rm m}07$	$0.^{\rm m}50$	EA	
BW5 V89	$18^{\rm h}02^{\rm m}40.^{\rm s}19$	$-30^{\circ}05'36.''0$	$2.^{\rm d}48516$	722.7299	$16.^{\rm m}64$	$1.^{\rm m}43$	$0.^{\rm m}49$	EA	
BW5 V90	$18^{\rm h}02^{\rm m}05.^{\rm s}95$	$-30^{\circ}04'16.''0$	$0.^{\rm d}84438$	723.8110	$16.^{\rm m}66$	$1.^{\rm m}35$	$0.^{\rm m}34$	EW	
BW5 V91	$18^{\rm h}01^{\rm m}58.^{\rm s}09$	$-29^{\circ}59'53.''9$	$0.^{\rm d}86583$	724.0980	$16.^{\rm m}76$	$1.^{\rm m}50$	$0.^{\rm m}25$	EW	
BW5 V93	$18^{\rm h}01^{\rm m}46.^{\rm s}81$	$-29^{\circ}59'08.''6$	$0.^{\rm d}79929$	724.4653	$16.^{\rm m}82$	$1.^{\rm m}53$	$0.^{\rm m}38$	EW	
BW5 V94	$18^{\rm h}02^{\rm m}38.^{\rm s}58$	$-29^{\circ}57'53.''0$	$0.^{\rm d}72437$	724.2773	$16.^{\rm m}83$	$1.^{\rm m}27$	$0.^{\rm m}22$	EW	
BW5 V95	$18^{\rm h}02^{\rm m}17.^{\rm s}94$	$-30^{\circ}07'47.''7$	$0.^{\rm d}87252$	724.1881	$16.^{\rm m}82$	$2.^{\rm m}28$	$0.^{\rm m}64$	EA	
BW5 V96	$18^{\rm h}02^{\rm m}37.^{\rm s}48$	$-30^{\circ}00'34.''7$	$1.^{\rm d}43270$	723.5507	$16.^{\rm m}85$	$1.^{\rm m}35$	$0.^{\rm m}40$	EB	
BW5 V97	$18^{\rm h}02^{\rm m}14.^{\rm s}98$	$-30^{\circ}07'58.''3$	$0.^{\rm d}45193$	724.5636	$16.^{\rm m}87$	$1.^{\rm m}30$	$0.^{\rm m}39$	EW	
BW5 V98	$18^{\rm h}02^{\rm m}30.^{\rm s}01$	$-30^{\circ}04'59.''6$	$0.^{\rm d}71508$	724.3424	$16.^{\rm m}89$	$1.^{\rm m}33$	$0.^{\rm m}18$	EW	
BW5 V99	$18^{\rm h}02^{\rm m}44.^{\rm s}72$	$-29^{\circ}57'26.''5$	$0.^{\rm d}72594$	723.8522	$16.^{\rm m}89$	$1.^{\rm m}23$	$0.^{\rm m}31$	EW	
BW5 V100	$18^{\rm h}01^{\rm m}58.^{\rm s}06$	$-29^{\circ}57'23.''6$	$0.^{\rm d}61831$	724.5604	$16.^{\rm m}89$	$1.^{\rm m}30$	$0.^{\rm m}39$	EW	
BW5 V101	$18^{\rm h}02^{\rm m}24.^{\rm s}11$	$-30^{\circ}07'38.''0$	$0.^{\rm d}81010$	723.6502	$16.^{\rm m}89$	$1.^{\rm m}57$	$0.^{\rm m}45$	EW	
BW5 V102	$18^{\rm h}02^{\rm m}15.^{\rm s}84$	$-29^{\circ}59'50.''6$	$2.^{\rm d}27514$	722.2819	$16.^{\rm m}89$	$1.^{\rm m}38$	$0.^{\rm m}24$	EA	
BW5 V103	$18^{\rm h}01^{\rm m}59.^{\rm s}94$	$-30^{\circ}00'53.''5$	$0.^{\rm d}65826$	724.3888	$16.^{\rm m}92$	$1.^{\rm m}62$	$0.^{\rm m}36$	EW	
BW5 V104	$18^{\rm h}02^{\rm m}03.^{\rm s}35$	$-30^{\circ}03'35.''9$	$0.^{\rm d}68345$	724.1064	$16.^{\rm m}94$	$1.^{\rm m}56$	$0.^{\rm m}59$	EW	
BW5 V105	$18^{\rm h}02^{\rm m}11.^{\rm s}98$	$-29^{\circ}57'23.''2$	$0.^{\rm d}62086$	724.4517	$16.^{\rm m}98$	$1.^{\rm m}43$	$0.^{\rm m}39$	EW	
BW5 V106	$18^{\rm h}02^{\rm m}18.^{\rm s}98$	$-29^{\circ}57'57.''4$	$1.^{\rm d}04701$	723.6250	$17.^{\rm m}00$	$1.^{\rm m}52$	$0.^{\rm m}53$	EA	
BW5 V108	$18^{\rm h}02^{\rm m}15.^{\rm s}37$	$-30^{\circ}04'25.''2$	$0.^{\rm d}56697$	724.1823	$17.^{\rm m}01$	$1.^{\rm m}58$	$0.^{\rm m}18$	EW	
BW5 V109	$18^{\rm h}02^{\rm m}36.^{\rm s}91$	$-29^{\circ}57'45.''5$	$2.^{\rm d}58149$	721.4309	$17.^{\rm m}02$	$1.^{\rm m}40$	$1.^{\rm m}04$	EA	
BW5 V110	$18^{\rm h}02^{\rm m}48.^{\rm s}88$	$-30^{\circ}00'52.''3$	$0.^{\rm d}64630$	723.9698	$17.^{\rm m}02$	$1.^{\rm m}32$	$0.^{\rm m}16$	EW	
BW5 V111	$18^{\rm h}02^{\rm m}44.^{\rm s}62$	$-29^{\circ}59'49.''5$	$0.^{\rm d}44486$	724.3104	$17.^{\rm m}02$	$1.^{\rm m}95$	$0.^{\rm m}19$	EW	
BW5 V112	$18^{\rm h}02^{\rm m}22.^{\rm s}11$	$-30^{\circ}02'56.''4$	$1.^{\rm d}99430$	722.1369	$17.^{\rm m}07$	$1.^{\rm m}36$	$0.^{\rm m}38$	EA	
BW5 V113	$18^{\rm h}02^{\rm m}30.^{\rm s}77$	$-30^{\circ}01'59.''8$	$0.^{\rm d}50540$	724.2635	$17.^{\rm m}09$	$1.^{\rm m}32$	$0.^{\rm m}26$	EW	

T a b l e 6

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Star ID OGLE	α_{2000}	δ_{2000}	P	$T_0 -$ 2 448 000	I	$(V-I)$	ΔI	Type	Remarks
BW5 V114	$18^{h}02^{m}00.^{s}43$	$-30^{\circ}01'31.''0$	$0.^{d}26004$	724.9320	$17.^{m}09$	$1.^{m}80$	$0.^{m}34$	EW	
BW5 V116	$18^{h}02^{m}41.^{s}66$	$-30^{\circ}04'48.''7$	$0.^{d}52381$	724.7629	$17.^{m}14$	$1.^{m}48$	$0.^{m}47$	EW	
BW5 V118	$18^{h}02^{m}21.^{s}33$	$-29^{\circ}58'18.''0$	$0.^{d}52879$	724.8606	$17.^{m}16$	$1.^{m}60$	$0.^{m}57$	EW	
BW5 V120	$18^{h}02^{m}26.^{s}13$	$-30^{\circ}06'29.''3$	$0.^{d}54541$	724.6257	$17.^{m}20$	$1.^{m}49$	$0.^{m}43$	EW	
BW5 V122	$18^{h}02^{m}05.^{s}77$	$-30^{\circ}03'16.''4$	$0.^{d}45012$	724.4898	$17.^{m}26$	$1.^{m}77$	$0.^{m}35$	EW	
BW5 V123	$18^{h}02^{m}37.^{s}23$	$-30^{\circ}07'32.''2$	$0.^{d}61163$	724.3638	$17.^{m}27$	$1.^{m}44$	$0.^{m}44$	EW	
BW5 V124	$18^{h}01^{m}54.^{s}41$	$-30^{\circ}08'17.''3$	$3.^{d}99601$	722.3627	$17.^{m}28$	$2.^{m}09$	$0.^{m}24$	E	
BW5 V125	$18^{h}02^{m}41.^{s}58$	$-29^{\circ}57'28.''7$	$2.^{d}67890$	721.3905	$17.^{m}32$	$1.^{m}44$	$1.^{m}82$	EA	
BW5 V128	$18^{h}02^{m}30.^{s}60$	$-29^{\circ}59'33.''6$	$0.^{d}49719$	724.8195	$17.^{m}36$	$1.^{m}29$	$0.^{m}32$	EW	
BW5 V129	$18^{h}02^{m}32.^{s}99$	$-30^{\circ}08'02.''3$	$1.^{d}04345$	723.6184	$17.^{m}37$	$1.^{m}25$	$0.^{m}30$	EW	
BW5 V131	$18^{h}02^{m}00.^{s}71$	$-29^{\circ}59'49.''7$	$0.^{d}37656$	724.6313	$17.^{m}40$	$1.^{m}59$	$0.^{m}23$	EW	
BW5 V132	$18^{h}01^{m}48.^{s}48$	$-30^{\circ}03'38.''2$	$0.^{d}51627$	724.3444	$17.^{m}41$	$1.^{m}82$	$0.^{m}47$	EW	
BW5 V136	$18^{h}02^{m}43.^{s}06$	$-30^{\circ}06'05.''1$	$0.^{d}92996$	723.9581	$17.^{m}45$	$1.^{m}58$	$0.^{m}46$	EA	
BW5 V138	$18^{h}02^{m}17.^{s}23$	$-30^{\circ}04'09.''1$	$1.^{d}29579$	723.8011	$17.^{m}47$	$1.^{m}60$	$0.^{m}35$	EW	
BW5 V139	$18^{h}02^{m}45.^{s}07$	$-30^{\circ}01'06.''1$	$0.^{d}49860$	724.6847	$17.^{m}48$	$1.^{m}48$	$0.^{m}49$	EW	
BW5 V140	$18^{h}02^{m}10.^{s}31$	$-30^{\circ}06'51.''5$	$0.^{d}50653$	724.7183	$17.^{m}48$	$1.^{m}62$	$0.^{m}31$	EW	
BW5 V141	$18^{h}02^{m}12.^{s}71$	$-29^{\circ}59'20.''2$	$0.^{d}66116$	724.3669	$17.^{m}48$	$1.^{m}64$	$0.^{m}57$	EW?	
BW5 V143	$18^{h}02^{m}20.^{s}01$	$-29^{\circ}58'40.''1$	$0.^{d}48149$	724.4542	$17.^{m}51$	$2.^{m}00$	$0.^{m}32$	EW	
BW5 V144	$18^{h}02^{m}07.^{s}40$	$-29^{\circ}58'18.''0$	$0.^{d}33857$	724.6773	$17.^{m}54$	–	$0.^{m}48$	EW	
BW5 V145	$18^{h}02^{m}29.^{s}68$	$-30^{\circ}01'44.''2$	$0.^{d}31589$	724.7673	$17.^{m}55$	$1.^{m}77$	$0.^{m}32$	EW	
BW5 V146	$18^{h}02^{m}45.^{s}37$	$-30^{\circ}03'58.''8$	$0.^{d}44879$	724.7824	$17.^{m}56$	–	$0.^{m}60$	EW	
BW5 V147	$18^{h}01^{m}45.^{s}37$	$-29^{\circ}57'54.''5$	$0.^{d}41252$	724.5279	$17.^{m}55$	$1.^{m}31$	$0.^{m}42$	EW	
BW5 V148	$18^{h}02^{m}18.^{s}89$	$-29^{\circ}57'49.''4$	$0.^{d}33709$	724.6289	$17.^{m}59$	–	$0.^{m}51$	EW	
BW5 V149	$18^{h}02^{m}37.^{s}42$	$-30^{\circ}00'27.''2$	$1.^{d}31085$	723.6028	$17.^{m}57$	$2.^{m}11$	$0.^{m}93$	EA	
BW5 V150	$18^{h}02^{m}32.^{s}50$	$-29^{\circ}59'44.''4$	$0.^{d}39329$	724.5094	$17.^{m}60$	$1.^{m}58$	$0.^{m}31$	EW	
BW5 V152	$18^{h}02^{m}07.^{s}64$	$-29^{\circ}57'09.''5$	$0.^{d}84912$	724.1184	$17.^{m}60$	$1.^{m}54$	$0.^{m}44$	EA	
BW5 V154	$18^{h}02^{m}45.^{s}67$	$-30^{\circ}07'21.''4$	$0.^{d}53834$	724.4867	$17.^{m}63$	$1.^{m}38$	$0.^{m}31$	EW	
BW5 V155	$18^{h}02^{m}29.^{s}42$	$-29^{\circ}56'46.''3$	$0.^{d}54697$	724.6652	$17.^{m}64$	$1.^{m}40$	$0.^{m}37$	EW	
BW5 V156	$18^{h}02^{m}54.^{s}46$	$-30^{\circ}07'31.''9$	$0.^{d}48010$	724.7498	$17.^{m}65$	–	$0.^{m}53$	EW	
BW5 V157	$18^{h}02^{m}04.^{s}98$	$-29^{\circ}58'00.''1$	$0.^{d}47056$	724.2201	$17.^{m}65$	$1.^{m}96$	$0.^{m}29$	EW	
BW5 V158	$18^{h}02^{m}08.^{s}47$	$-30^{\circ}05'53.''0$	$0.^{d}33036$	724.6404	$17.^{m}67$	$1.^{m}69$	$0.^{m}31$	EW	
BW5 V159	$18^{h}01^{m}46.^{s}84$	$-30^{\circ}02'18.''9$	$0.^{d}43528$	724.5536	$17.^{m}68$	$1.^{m}52$	$0.^{m}29$	EW	
BW5 V160	$18^{h}02^{m}22.^{s}95$	$-30^{\circ}09'26.''7$	$0.^{d}42405$	724.3639	$17.^{m}68$	$1.^{m}67$	$0.^{m}35$	EW	
BW5 V161	$18^{h}02^{m}21.^{s}11$	$-30^{\circ}03'12.''0$	$5.^{d}51092$	720.3875	$17.^{m}73$	$1.^{m}95$	$0.^{m}47$	EA	
BW5 V162	$18^{h}02^{m}37.^{s}27$	$-30^{\circ}00'04.''7$	$0.^{d}51231$	724.4320	$17.^{m}76$	$1.^{m}44$	$0.^{m}52$	EW	
BW5 V163	$18^{h}01^{m}47.^{s}53$	$-30^{\circ}06'43.''2$	$0.^{d}36221$	724.6478	$17.^{m}75$	$1.^{m}87$	$0.^{m}30$	EW	
BW5 V164	$18^{h}02^{m}06.^{s}43$	$-30^{\circ}01'55.''4$	$0.^{d}67208$	724.1097	$17.^{m}78$	$1.^{m}54$	$0.^{m}51$	EW	
BW5 V165	$18^{h}02^{m}19.^{s}48$	$-30^{\circ}07'14.''8$	$0.^{d}42679$	724.3121	$17.^{m}77$	$1.^{m}88$	$0.^{m}46$	EW	
BW5 V166	$18^{h}02^{m}48.^{s}73$	$-29^{\circ}57'43.''8$	$0.^{d}51024$	724.1224	$17.^{m}81$	$0.^{m}95$	$0.^{m}45$	EW	
BW5 V167	$18^{h}02^{m}34.^{s}57$	$-29^{\circ}58'37.''7$	$0.^{d}69051$	724.2124	$17.^{m}81$	$1.^{m}69$	$0.^{m}58$	EW	
BW5 V168	$18^{h}01^{m}53.^{s}65$	$-30^{\circ}02'37.''8$	$0.^{d}38331$	724.7626	$17.^{m}82$	$1.^{m}69$	$0.^{m}28$	EW	
BW5 V170	$18^{h}02^{m}48.^{s}68$	$-30^{\circ}07'00.''3$	$0.^{d}30637$	724.5795	$17.^{m}83$	$1.^{m}62$	$0.^{m}27$	EW	
BW5 V171	$18^{h}02^{m}29.^{s}87$	$-29^{\circ}59'57.''8$	$2.^{d}31344$	722.0443	$17.^{m}83$	$1.^{m}97$	$0.^{m}41$	EA	
BW5 V172	$18^{h}01^{m}50.^{s}95$	$-29^{\circ}57'07.''4$	$5.^{d}50612$	722.0023	$17.^{m}84$	$1.^{m}75$	$0.^{m}48$	EA	
BW5 V173	$18^{h}01^{m}58.^{s}56$	$-30^{\circ}08'02.''8$	$0.^{d}66324$	724.8520	$17.^{m}82$	$2.^{m}69$	$0.^{m}33$	E	

Table 7

Eclipsing Variable Stars in the BW6 field

Star ID OGLE	α_{2000}	δ_{2000}	P	$T_0 -$ 2 448 000	I	$(V-I)$	ΔI	Type	Remarks
BW6 V2	$18^{h}03^{m}26.^{s}45$	$-30^{\circ}16'41.''9$	$2.^{d}05676$	722.3012	$13.^{m}98$	$1.^{m}21$	$0.^{m}13$	E?	
BW6 V5	$18^{h}03^{m}26.^{s}31$	$-30^{\circ}15'08.''8$	$0.^{d}69839$	724.8422	$14.^{m}78$	$1.^{m}25$	$0.^{m}35$	EW	
BW6 V14	$18^{h}03^{m}14.^{s}19$	$-30^{\circ}17'39.''7$	$0.^{d}73251$	724.1096	$15.^{m}27$	$1.^{m}07$	$0.^{m}29$	EW	
BW6 V19	$18^{h}03^{m}03.^{s}16$	$-30^{\circ}22'22.''5$	$0.^{d}56469$	724.4527	$15.^{m}41$	$1.^{m}16$	$0.^{m}22$	EW	
BW6 V21	$18^{h}03^{m}12.^{s}96$	$-30^{\circ}19'12.''1$	$0.^{d}80372$	724.3936	$15.^{m}42$	$1.^{m}27$	$0.^{m}14$	EW	
BW6 V33	$18^{h}03^{m}30.^{s}57$	$-30^{\circ}10'13.''4$	$0.^{d}51298$	724.7294	$15.^{m}70$	$1.^{m}01$	$0.^{m}14$	EW	
BW6 V34	$18^{h}03^{m}08.^{s}03$	$-30^{\circ}12'04.''4$	$8.^{d}84890$	712.1860	$15.^{m}68$	$2.^{m}03$	$0.^{m}14$	EB	
BW6 V41	$18^{h}03^{m}30.^{s}24$	$-30^{\circ}10'38.''2$	$0.^{d}28691$	724.6259	$15.^{m}85$	$1.^{m}39$	$0.^{m}44$	EW	
BW6 V45	$18^{h}03^{m}06.^{s}50$	$-30^{\circ}12'15.''0$	$0.^{d}40383$	724.7759	$15.^{m}90$	$1.^{m}76$	$0.^{m}20$	EW	
BW6 V49	$18^{h}02^{m}54.^{s}90$	$-30^{\circ}12'19.''7$	$0.^{d}21735$	724.7527	$15.^{m}98$	$2.^{m}02$	$0.^{m}18$	EW?	
BW6 V51	$18^{h}03^{m}18.^{s}03$	$-30^{\circ}21'20.''8$	$0.^{d}37417$	724.5390	$16.^{m}04$	$1.^{m}20$	$0.^{m}12$	EW	
BW6 V52	$18^{h}03^{m}09.^{s}34$	$-30^{\circ}12'46.''6$	$1.^{d}11256$	723.8872	$16.^{m}06$	$1.^{m}42$	$0.^{m}27$	EW	
BW6 V54	$18^{h}03^{m}20.^{s}97$	$-30^{\circ}12'00.''0$	$0.^{d}47224$	724.4440	$16.^{m}14$	$1.^{m}15$	$0.^{m}11$	EW	
BW6 V56	$18^{h}03^{m}04.^{s}66$	$-30^{\circ}16'19.''6$	$0.^{d}26704$	724.6584	$16.^{m}14$	$1.^{m}40$	$0.^{m}11$	EW	
BW6 V59	$18^{h}03^{m}26.^{s}72$	$-30^{\circ}10'13.''6$	$1.^{d}20406$	724.4275	$16.^{m}19$	$1.^{m}38$	$0.^{m}24$	EW	
BW6 V60	$18^{h}03^{m}04.^{s}44$	$-30^{\circ}16'11.''1$	$0.^{d}34060$	724.6745	$16.^{m}22$	$1.^{m}60$	$0.^{m}28$	EW	
BW6 V61	$18^{h}03^{m}13.^{s}20$	$-30^{\circ}17'27.''9$	$0.^{d}72992$	724.1909	$16.^{m}25$	$1.^{m}27$	$0.^{m}20$	EW	
BW6 V64	$18^{h}03^{m}27.^{s}63$	$-30^{\circ}09'58.''5$	$5.^{d}74514$	719.2804	$16.^{m}34$	$1.^{m}71$	$0.^{m}47$	EB	
BW6 V67	$18^{h}03^{m}22.^{s}18$	$-30^{\circ}16'59.''8$	$1.^{d}39509$	723.4767	$16.^{m}43$	$1.^{m}57$	$0.^{m}46$	EA	
BW6 V69	$18^{h}03^{m}23.^{s}29$	$-30^{\circ}10'58.''7$	$2.^{d}66396$	724.1329	$16.^{m}44$	$1.^{m}78$	$0.^{m}82$	EA	
BW6 V71	$18^{h}03^{m}15.^{s}93$	$-30^{\circ}19'15.''7$	$0.^{d}39093$	724.7549	$16.^{m}48$	$1.^{m}59$	$0.^{m}61$	EW	
BW6 V72	$18^{h}03^{m}43.^{s}21$	$-30^{\circ}15'27.''4$	$1.^{d}13323$	723.4019	$16.^{m}49$	$1.^{m}31$	$0.^{m}17$	E	
BW6 V76	$18^{h}03^{m}42.^{s}76$	$-30^{\circ}16'00.''9$	$0.^{d}82557$	724.0769	$16.^{m}55$	$1.^{m}28$	$0.^{m}28$	EW	
BW6 V77	$18^{h}03^{m}35.^{s}67$	$-30^{\circ}21'29.''0$	$0.^{d}58438$	724.4500	$16.^{m}60$	$1.^{m}54$	$0.^{m}35$	EW	
BW6 V78	$18^{h}02^{m}56.^{s}49$	$-30^{\circ}17'38.''6$	$0.^{d}38188$	724.6093	$16.^{m}61$	$1.^{m}20$	$0.^{m}40$	EW	
BW6 V79	$18^{h}03^{m}14.^{s}71$	$-30^{\circ}16'08.''6$	$4.^{d}77100$	720.2310	$16.^{m}72$	$2.^{m}13$	$0.^{m}30$	EB	
BW6 V81	$18^{h}03^{m}23.^{s}35$	$-30^{\circ}17'39.''5$	$1.^{d}58030$	723.2522	$16.^{m}78$	$1.^{m}13$	$0.^{m}55$	EA	
BW6 V85	$18^{h}03^{m}22.^{s}76$	$-30^{\circ}10'06.''5$	$0.^{d}62422$	724.3137	$16.^{m}81$	$1.^{m}29$	$0.^{m}34$	EW	
BW6 V86	$18^{h}03^{m}08.^{s}60$	$-30^{\circ}13'45.''1$	$0.^{d}37678$	724.6764	$16.^{m}86$	$1.^{m}53$	$0.^{m}26$	EW	
BW6 V87	$18^{h}03^{m}27.^{s}37$	$-30^{\circ}22'21.''7$	$0.^{d}58673$	724.5722	$16.^{m}87$	–	$0.^{m}56$	EW	
BW6 V88	$18^{h}02^{m}59.^{s}95$	$-30^{\circ}12'39.''7$	$2.^{d}84490$	721.0136	$16.^{m}88$	$1.^{m}90$	$0.^{m}36$	EB	
BW6 V89	$18^{h}03^{m}05.^{s}51$	$-30^{\circ}16'35.''9$	$2.^{d}46444$	722.5078	$16.^{m}93$	$1.^{m}51$	$1.^{m}79$	EA	
BW6 V91	$18^{h}03^{m}19.^{s}32$	$-30^{\circ}09'48.''7$	$1.^{d}23768$	723.7105	$16.^{m}97$	$1.^{m}08$	$0.^{m}74$	EA	
BW6 V92	$18^{h}02^{m}56.^{s}87$	$-30^{\circ}21'29.''9$	$0.^{d}65476$	724.6484	$16.^{m}96$	$1.^{m}49$	$0.^{m}24$	EW	
BW6 V93	$18^{h}03^{m}16.^{s}98$	$-30^{\circ}11'49.''7$	$0.^{d}62371$	724.7785	$17.^{m}00$	–	$0.^{m}46$	EW	
BW6 V97	$18^{h}02^{m}57.^{s}86$	$-30^{\circ}19'49.''3$	$1.^{d}47660$	723.5233	$17.^{m}07$	$1.^{m}49$	$0.^{m}27$	EA	
BW6 V98	$18^{h}03^{m}20.^{s}48$	$-30^{\circ}15'02.''7$	$0.^{d}97870$	724.2061	$17.^{m}08$	$1.^{m}56$	$0.^{m}37$	EA	
BW6 V99	$18^{h}03^{m}41.^{s}16$	$-30^{\circ}08'34.''0$	$5.^{d}50434$	724.8813	$17.^{m}08$	$1.^{m}50$	$0.^{m}36$	EA	
BW6 V100	$18^{h}03^{m}31.^{s}11$	$-30^{\circ}10'11.''1$	$1.^{d}20776$	723.8758	$17.^{m}11$	$1.^{m}26$	$0.^{m}35$	EA	
BW6 V101	$18^{h}03^{m}39.^{s}56$	$-30^{\circ}17'55.''7$	$0.^{d}33555$	724.4598	$17.^{m}12$	$1.^{m}42$	$0.^{m}40$	EW	
BW6 V102	$18^{h}03^{m}25.^{s}46$	$-30^{\circ}13'48.''7$	$0.^{d}74120$	724.4266	$17.^{m}13$	$1.^{m}57$	$0.^{m}22$	EW	

Table 7

concluded

Star ID OGLE	α_{2000}	δ_{2000}	P	T_0 – 2 448 000	I	$(V-I)$	ΔI	Type	Remarks
BW6 V103	$18^h03^m43.^s27$	$-30^\circ10'19.''7$	$0.^d73735$	724.7716	$17.^m14$	$1.^m12$	$0.^m19$	EW	
BW6 V104	$18^h02^m54.^s46$	$-30^\circ11'38.''0$	$1.^d65735$	723.2430	$17.^m13$	$1.^m56$	$0.^m77$	EA	
BW6 V106	$18^h02^m54.^s58$	$-30^\circ17'33.''5$	$3.^d35035$	721.1719	$17.^m15$	$1.^m40$	$1.^m27$	EA	
BW6 V107	$18^h03^m20.^s25$	$-30^\circ18'47.''1$	$1.^d06022$	723.1770	$17.^m20$	$1.^m33$	$1.^m03$	EA	
BW6 V108	$18^h02^m58.^s82$	$-30^\circ11'58.''0$	$4.^d42796$	720.7855	$17.^m20$	$1.^m62$	$0.^m20$	E	
BW6 V109	$18^h03^m28.^s08$	$-30^\circ13'26.''7$	$0.^d54674$	724.9073	$17.^m23$	$1.^m96$	$0.^m61$	EW	
BW6 V111	$18^h03^m29.^s01$	$-30^\circ19'48.''2$	$0.^d45224$	724.8846	$17.^m25$	$1.^m57$	$0.^m33$	EW	
BW6 V112	$18^h03^m01.^s58$	$-30^\circ17'49.''5$	$2.^d65984$	722.4412	$17.^m27$	$1.^m69$	$0.^m49$	EA	
BW6 V114	$18^h03^m01.^s99$	$-30^\circ21'17.''4$	$0.^d52128$	724.5167	$17.^m28$	$1.^m28$	$0.^m20$	EW	
BW6 V115	$18^h02^m55.^s44$	$-30^\circ15'21.''7$	$0.^d40963$	724.2799	$17.^m29$	$1.^m65$	$0.^m21$	EW	
BW6 V116	$18^h03^m07.^s63$	$-30^\circ12'38.''5$	$0.^d55508$	724.7918	$17.^m29$	$1.^m51$	$0.^m21$	EW	
BW6 V117	$18^h02^m51.^s00$	$-30^\circ13'43.''2$	$1.^d15642$	723.7784	$17.^m30$	$1.^m51$	$1.^m43$	EA	
BW6 V118	$18^h03^m22.^s74$	$-30^\circ10'56.''6$	$0.^d69391$	724.1541	$17.^m32$	$1.^m46$	$0.^m29$	EW	
BW6 V119	$18^h03^m45.^s07$	$-30^\circ14'46.''8$	$0.^d55848$	724.8903	$17.^m33$	$1.^m29$	$0.^m28$	EW	
BW6 V121	$18^h02^m54.^s88$	$-30^\circ11'03.''1$	$0.^d48851$	724.5048	$17.^m37$	$0.^m75$	$0.^m35$	EW	
BW6 V122	$18^h03^m00.^s10$	$-30^\circ12'15.''0$	$0.^d48397$	724.7509	$17.^m38$	$1.^m52$	$0.^m24$	EW	
BW6 V123	$18^h03^m23.^s66$	$-30^\circ13'03.''2$	$0.^d53991$	724.5101	$17.^m38$	$2.^m07$	$0.^m29$	EW	
BW6 V124	$18^h02^m59.^s95$	$-30^\circ08'31.''4$	$0.^d39862$	724.4400	$17.^m39$	$1.^m65$	$0.^m19$	EW	
BW6 V125	$18^h03^m23.^s95$	$-30^\circ09'47.''0$	$0.^d25812$	724.7816	$17.^m42$	–	$0.^m48$	EW	
BW6 V127	$18^h02^m57.^s11$	$-30^\circ16'33.''9$	$0.^d56770$	724.5907	$17.^m43$	$1.^m61$	$0.^m36$	EW	
BW6 V128	$18^h03^m46.^s81$	$-30^\circ21'31.''6$	$0.^d68961$	724.4794	$17.^m44$	$1.^m67$	$0.^m59$	EW	
BW6 V129	$18^h03^m06.^s06$	$-30^\circ10'32.''1$	$0.^d60031$	724.2788	$17.^m44$	$1.^m56$	$0.^m60$	EW	
BW6 V130	$18^h03^m41.^s91$	$-30^\circ20'10.''8$	$0.^d55917$	724.3007	$17.^m44$	$1.^m92$	$0.^m51$	EW	
BW6 V131	$18^h03^m00.^s91$	$-30^\circ13'30.''6$	$2.^d93992$	720.5916	$17.^m47$	$1.^m65$	$0.^m50$	EA	
BW6 V132	$18^h03^m01.^s36$	$-30^\circ14'57.''7$	$0.^d53916$	724.5184	$17.^m53$	$1.^m45$	$0.^m50$	EW	
BW6 V133	$18^h03^m37.^s46$	$-30^\circ15'29.''7$	$0.^d49217$	724.7700	$17.^m54$	$1.^m61$	$0.^m22$	EW	
BW6 V134	$18^h03^m24.^s97$	$-30^\circ18'01.''3$	$0.^d38820$	724.6397	$17.^m56$	$2.^m09$	$0.^m24$	EW	
BW6 V135	$18^h03^m20.^s85$	$-30^\circ12'36.''1$	$0.^d57174$	724.6456	$17.^m61$	$1.^m39$	$0.^m36$	EW	
BW6 V136	$18^h03^m32.^s26$	$-30^\circ11'38.''4$	$0.^d44347$	724.5231	$17.^m64$	$1.^m62$	$0.^m38$	EW	
BW6 V139	$18^h03^m06.^s52$	$-30^\circ19'52.''0$	$0.^d43911$	724.6018	$17.^m66$	$1.^m33$	$0.^m28$	EW	
BW6 V140	$18^h03^m03.^s17$	$-30^\circ11'47.''2$	$0.^d30891$	724.5073	$17.^m66$	$1.^m56$	$0.^m18$	EW	
BW6 V141	$18^h03^m13.^s93$	$-30^\circ13'12.''3$	$0.^d42681$	724.6448	$17.^m66$	$1.^m86$	$0.^m23$	EW	
BW6 V142	$18^h03^m26.^s44$	$-30^\circ18'28.''9$	$0.^d49554$	724.8070	$17.^m71$	$1.^m46$	$0.^m42$	EW?	
BW6 V143	$18^h03^m16.^s73$	$-30^\circ09'08.''9$	$0.^d60727$	724.2575	$17.^m71$	$1.^m82$	$0.^m28$	EW	
BW6 V144	$18^h02^m53.^s46$	$-30^\circ14'27.''6$	$0.^d93215$	723.4220	$17.^m72$	$1.^m30$	$0.^m57$	EA	
BW6 V145	$18^h03^m21.^s19$	$-30^\circ18'18.''8$	$0.^d48519$	724.6405	$17.^m73$	$1.^m62$	$0.^m43$	EW	
BW6 V147	$18^h03^m38.^s86$	$-30^\circ16'25.''6$	$0.^d44094$	724.4816	$17.^m75$	$1.^m53$	$0.^m43$	EW	
BW6 V148	$18^h03^m31.^s94$	$-30^\circ19'30.''3$	$0.^d33947$	724.7416	$17.^m79$	$1.^m69$	$0.^m30$	EW	
BW6 V149	$18^h03^m12.^s02$	$-30^\circ10'42.''4$	$0.^d58080$	724.2849	$17.^m79$	$1.^m77$	$0.^m46$	EW?	
BW6 V151	$18^h03^m16.^s26$	$-30^\circ13'23.''4$	$0.^d44958$	724.5436	$17.^m81$	$2.^m61$	$0.^m31$	EW	
BW6 V152	$18^h02^m51.^s01$	$-30^\circ12'48.''9$	$0.^d53231$	724.3328	$17.^m83$	$1.^m56$	$0.^m37$	EW	
BW6 V153	$18^h03^m00.^s75$	$-30^\circ12'42.''6$	$7.^d01028$	720.4124	$17.^m87$	$2.^m18$	$0.^m33$	EA	

T a b l e 8

Eclipsing Variable Stars in the BW7 field

Star ID OGLE	α_{2000}	δ_{2000}	P	$T_0 -$ 2 448 000	I	$(V-I)$	ΔI	Type	Remarks
BW7 V4	$18^h04^m34.^s04$	$-30^\circ05'52.''4$	$3.^d14461$	720.3601	$13.^m98$	$0.^m93$	$0.^m57$	EA	
BW7 V7	$18^h04^m04.^s04$	$-30^\circ03'51.''8$	$39.^d39368$	676.7723	$14.^m78$	$2.^m14$	$0.^m20$	E	
BW7 V17	$18^h04^m10.^s29$	$-29^\circ56'47.''2$	$0.^d45193$	724.6146	$15.^m14$	$0.^m88$	$0.^m10$	EW	
BW7 V21	$18^h04^m14.^s60$	$-29^\circ58'00.''2$	$0.^d85728$	723.6395	$15.^m31$	$0.^m90$	$0.^m28$	EW	
BW7 V34	$18^h04^m52.^s50$	$-30^\circ06'20.''5$	$3.^d09224$	724.8674	$15.^m69$	$1.^m27$	$0.^m38$	EA	
BW7 V35	$18^h04^m49.^s73$	$-30^\circ04'14.''6$	$0.^d62733$	724.1785	$15.^m72$	$1.^m35$	$0.^m28$	EW	
BW7 V36	$18^h04^m45.^s24$	$-30^\circ00'24.''3$	$5.^d39587$	719.6712	$15.^m72$	$1.^m38$	$1.^m02$	EA	
BW7 V38	$18^h04^m40.^s64$	$-30^\circ05'20.''1$	$3.^d63724$	723.9534	$15.^m81$	$1.^m60$	$0.^m32$	EA	
BW7 V39	$18^h04^m38.^s64$	$-30^\circ01'26.''8$	$0.^d44023$	724.4553	$15.^m82$	$1.^m02$	$0.^m20$	EW	
BW7 V40	$18^h03^m59.^s71$	$-30^\circ00'18.''6$	$0.^d38465$	724.5002	$15.^m83$	$1.^m12$	$0.^m33$	EW	
BW7 V44	$18^h04^m47.^s24$	$-30^\circ01'41.''9$	$1.^d18119$	722.9001	$15.^m91$	$1.^m46$	$0.^m21$	EW	
BW7 V45	$18^h04^m20.^s56$	$-29^\circ56'33.''6$	$0.^d30405$	724.7655	$16.^m02$	$1.^m44$	$0.^m16$	EW	
BW7 V47	$18^h03^m59.^s29$	$-29^\circ59'41.''3$	$1.^d20458$	723.8984	$16.^m04$	$1.^m21$	$0.^m10$	EW	
BW7 V52	$18^h04^m15.^s22$	$-30^\circ03'15.''4$	$2.^d90900$	721.7687	$16.^m10$	$1.^m39$	$0.^m66$	EA	
BW7 V53	$18^h04^m33.^s18$	$-29^\circ59'14.''8$	$0.^d48759$	724.5105	$16.^m13$	$1.^m24$	$0.^m13$	EW	
BW7 V54	$18^h04^m11.^s02$	$-30^\circ02'42.''5$	$1.^d00871$	723.6546	$16.^m15$	$1.^m26$	$0.^m43$	EW	
BW7 V55	$18^h03^m58.^s64$	$-29^\circ59'22.''9$	$0.^d55699$	724.1399	$16.^m17$	$1.^m24$	$0.^m28$	EW	
BW7 V57	$18^h04^m47.^s53$	$-30^\circ02'26.''5$	$1.^d08080$	724.0938	$16.^m22$	$1.^m21$	$0.^m29$	EW	
BW7 V63	$18^h03^m46.^s13$	$-29^\circ55'40.''8$	$3.^d41522$	721.5609	$16.^m35$	–	$0.^m11$	E	
BW7 V68	$18^h04^m03.^s41$	$-30^\circ00'22.''6$	$1.^d23365$	723.0916	$16.^m42$	$1.^m33$	$0.^m17$	EW	
BW7 V71	$18^h04^m06.^s58$	$-30^\circ01'53.''2$	$0.^d90775$	723.9878	$16.^m48$	$1.^m34$	$0.^m25$	EW	
BW7 V72	$18^h04^m24.^s20$	$-29^\circ58'04.''9$	$0.^d84956$	724.7681	$16.^m52$	$1.^m40$	$0.^m24$	EW	
BW7 V73	$18^h04^m39.^s77$	$-29^\circ57'55.''2$	$0.^d47567$	724.8336	$16.^m52$	$1.^m43$	$0.^m46$	EW	
BW7 V76	$18^h04^m27.^s19$	$-30^\circ04'40.''1$	$5.^d73712$	718.0282	$16.^m54$	$1.^m57$	$0.^m25$	EA?	
BW7 V77	$18^h04^m35.^s20$	$-30^\circ00'10.''8$	$0.^d52246$	724.4692	$16.^m55$	$1.^m16$	$0.^m13$	EW	
BW7 V80	$18^h03^m45.^s48$	$-29^\circ55'39.''1$	$0.^d37692$	724.6249	$16.^m59$	–	$0.^m17$	EW	
BW7 V82	$18^h04^m18.^s03$	$-30^\circ00'18.''2$	$1.^d62849$	724.5747	$16.^m64$	$1.^m35$	$0.^m33$	EA	
BW7 V83	$18^h04^m00.^s04$	$-30^\circ02'38.''0$	$0.^d58252$	724.3030	$16.^m68$	$1.^m21$	$0.^m21$	EW	
BW7 V84	$18^h04^m34.^s15$	$-30^\circ02'26.''3$	$0.^d53812$	724.5043	$16.^m69$	$1.^m47$	$0.^m27$	EW	
BW7 V85	$18^h04^m38.^s18$	$-30^\circ03'41.''9$	$2.^d33858$	723.4485	$16.^m70$	$1.^m67$	$0.^m23$	EA	
BW7 V86	$18^h04^m27.^s07$	$-30^\circ06'45.''8$	$0.^d33714$	724.7219	$16.^m72$	$1.^m49$	$0.^m50$	EW	
BW7 V87	$18^h04^m29.^s04$	$-29^\circ59'11.''4$	$0.^d69435$	724.6021	$16.^m72$	$1.^m34$	$0.^m21$	EW	
BW7 V88	$18^h04^m36.^s81$	$-30^\circ02'19.''9$	$2.^d63760$	723.0005	$16.^m73$	$1.^m54$	$0.^m51$	EA	
BW7 V89	$18^h03^m58.^s70$	$-30^\circ02'58.''3$	$2.^d62160$	722.6739	$16.^m75$	$1.^m65$	$0.^m25$	EA	
BW7 V91	$18^h03^m56.^s70$	$-30^\circ06'13.''8$	$1.^d49661$	723.8914	$16.^m79$	$1.^m37$	$0.^m93$	EA	
BW7 V95	$18^h04^m19.^s58$	$-30^\circ00'03.''1$	$0.^d78243$	724.2689	$16.^m83$	$1.^m27$	$0.^m25$	EW	
BW7 V96	$18^h04^m07.^s16$	$-30^\circ02'13.''5$	$0.^d44314$	724.8596	$16.^m84$	$1.^m49$	$0.^m28$	EW	
BW7 V97	$18^h04^m48.^s97$	$-29^\circ58'30.''5$	$1.^d01406$	723.3422	$16.^m90$	$1.^m06$	$0.^m40$	EA	
BW7 V100	$18^h04^m24.^s19$	$-30^\circ00'46.''5$	$2.^d22821$	724.1566	$16.^m92$	$1.^m24$	$0.^m70$	EA	
BW7 V101	$18^h04^m42.^s58$	$-30^\circ07'05.''0$	$7.^d80109$	711.4035	$16.^m92$	$2.^m22$	$1.^m12$	EA	
BW7 V102	$18^h04^m15.^s48$	$-30^\circ01'35.''9$	$0.^d60787$	724.0139	$16.^m95$	$1.^m65$	$0.^m30$	EW	
BW7 V103	$18^h04^m32.^s86$	$-29^\circ58'48.''7$	$0.^d29378$	724.6545	$16.^m96$	$1.^m49$	$0.^m16$	EW	
BW7 V105	$18^h04^m47.^s67$	$-30^\circ01'58.''9$	$12.^d06103$	713.2411	$16.^m97$	$1.^m79$	$0.^m33$	E	RSCVn?
BW7 V106	$18^h04^m29.^s60$	$-29^\circ56'58.''1$	$0.^d87515$	724.1831	$17.^m00$	–	$0.^m52$	EW	
BW7 V107	$18^h04^m20.^s16$	$-29^\circ57'28.''8$	$0.^d32409$	724.9203	$17.^m00$	$1.^m88$	$0.^m29$	EW	
BW7 V109	$18^h04^m34.^s36$	$-30^\circ04'37.''4$	$0.^d88464$	723.8735	$17.^m02$	$2.^m05$	$0.^m56$	EA	
BW7 V110	$18^h04^m50.^s67$	$-29^\circ59'14.''4$	$2.^d31420$	722.1961	$17.^m03$	$1.^m28$	$0.^m59$	EA	

Table 8

concluded

Star ID OGLE	α_{2000}	δ_{2000}	P	T_0 – 2 448 000	I	$(V-I)$	ΔI	Type	Remarks
BW7 V111	$18^h03^m56.^s98$	$-30°01'06.''3$	$0.^d60290$	724.5700	$17.^m07$	$1.^m21$	$0.^m38$	EW	
BW7 V112	$18^h04^m32.^s13$	$-30°08'58.''7$	$0.^d58996$	724.3240	$17.^m09$	$2.^m58$	$0.^m17$	EW	
BW7 V114	$18^h03^m56.^s44$	$-29°58'06.''7$	$0.^d53370$	724.5554	$17.^m13$	$1.^m66$	$0.^m57$	EW	
BW7 V115	$18^h04^m24.^s75$	$-30°00'58.''5$	$0.^d46822$	724.6725	$17.^m14$	$1.^m38$	$0.^m38$	EW	
BW7 V118	$18^h04^m46.^s40$	$-30°01'06.''2$	$1.^d76781$	724.6377	$17.^m21$	$1.^m48$	$0.^m35$	EA	
BW7 V119	$18^h04^m19.^s90$	$-30°06'26.''5$	$2.^d41973$	722.3932	$17.^m19$	$2.^m79$	$1.^m14$	EA	
BW7 V120	$18^h04^m39.^s84$	$-30°04'52.''3$	$0.^d50669$	724.2460	$17.^m23$	$1.^m77$	$0.^m16$	EW	
BW7 V121	$18^h04^m17.^s47$	$-29°59'46.''7$	$0.^d56583$	724.7077	$17.^m23$	$1.^m26$	$0.^m28$	EW	
BW7 V123	$18^h04^m17.^s02$	$-29°58'33.''2$	$0.^d48275$	724.3056	$17.^m27$	$1.^m25$	$0.^m27$	EW	
BW7 V124	$18^h04^m32.^s52$	$-30°02'24.''9$	$0.^d41735$	724.9244	$17.^m27$	$1.^m71$	$0.^m27$	EW	
BW7 V126	$18^h04^m07.^s99$	$-30°06'32.''1$	$4.^d92398$	720.3635	$17.^m27$	$1.^m96$	$0.^m18$	E?	
BW7 V127	$18^h04^m45.^s94$	$-30°00'41.''3$	$0.^d54330$	724.6927	$17.^m32$	$1.^m43$	$0.^m22$	EW	
BW7 V128	$18^h04^m50.^s00$	$-29°57'57.''9$	$0.^d48294$	724.5380	$17.^m33$	$1.^m42$	$0.^m24$	EW	
BW7 V129	$18^h04^m33.^s65$	$-30°02'33.''9$	$0.^d41943$	724.6769	$17.^m34$	$1.^m45$	$0.^m35$	EW	
BW7 V131	$18^h04^m48.^s76$	$-30°01'45.''8$	$2.^d27004$	722.4421	$17.^m34$	$1.^m88$	$1.^m27$	EA	
BW7 V132	$18^h04^m06.^s65$	$-30°07'28.''9$	$0.^d43064$	724.5221	$17.^m34$	$1.^m80$	$0.^m23$	EW	
BW7 V133	$18^h04^m24.^s23$	$-30°03'04.''3$	$0.^d45809$	724.5381	$17.^m37$	$1.^m34$	$0.^m32$	EW?	
BW7 V134	$18^h04^m28.^s25$	$-30°07'19.''2$	$0.^d38342$	724.4859	$17.^m39$	$1.^m58$	$0.^m17$	EW	
BW7 V135	$18^h04^m44.^s58$	$-30°02'35.''3$	$0.^d56579$	724.6474	$17.^m39$	$1.^m46$	$0.^m38$	EW	
BW7 V137	$18^h04^m26.^s26$	$-29°58'33.''4$	$0.^d63014$	724.4146	$17.^m42$	$1.^m39$	$0.^m26$	EW	
BW7 V139	$18^h04^m05.^s27$	$-30°06'57.''6$	$0.^d42991$	724.7444	$17.^m44$	$1.^m67$	$0.^m26$	EW	
BW7 V140	$18^h04^m14.^s03$	$-30°02'11.''0$	$0.^d46214$	724.3971	$17.^m47$	$1.^m51$	$0.^m24$	EW	
BW7 V141	$18^h04^m23.^s71$	$-29°56'28.''6$	$0.^d79988$	724.6673	$17.^m48$	$1.^m55$	$0.^m29$	EW	
BW7 V142	$18^h04^m46.^s50$	$-30°00'28.''7$	$3.^d84788$	722.3971	$17.^m46$	$2.^m71$	$0.^m47$	E	
BW7 V143	$18^h03^m57.^s11$	$-29°58'22.''6$	$0.^d37979$	724.6101	$17.^m48$	$1.^m75$	$0.^m23$	EW	
BW7 V144	$18^h04^m42.^s76$	$-29°56'40.''3$	$0.^d67244$	724.8237	$17.^m49$	$1.^m47$	$0.^m48$	EW	
BW7 V145	$18^h04^m12.^s70$	$-30°07'29.''4$	$0.^d58492$	724.1485	$17.^m49$	$1.^m46$	$0.^m63$	EW	
BW7 V147	$18^h03^m58.^s13$	$-30°02'19.''1$	$0.^d49200$	724.8070	$17.^m50$	$1.^m97$	$0.^m33$	EW	
BW7 V148	$18^h04^m11.^s95$	$-30°02'56.''0$	$0.^d47459$	724.6828	$17.^m53$	$1.^m49$	$0.^m43$	EW	
BW7 V149	$18^h03^m57.^s05$	$-30°06'37.''7$	$0.^d46301$	724.5963	$17.^m55$	$1.^m29$	$0.^m26$	EW	
BW7 V150	$18^h04^m20.^s40$	$-30°05'54.''1$	$0.^d32431$	724.6496	$17.^m58$	$1.^m78$	$0.^m24$	EW	
BW7 V151	$18^h04^m23.^s76$	$-30°03'48.''1$	$0.^d44285$	724.5805	$17.^m62$	$1.^m75$	$0.^m39$	EW	
BW7 V152	$18^h04^m29.^s31$	$-29°58'33.''4$	$0.^d50365$	724.3535	$17.^m63$	$1.^m65$	$0.^m54$	EW	
BW7 V153	$18^h04^m06.^s89$	$-29°57'40.''0$	$0.^d27340$	724.6401	$17.^m64$	$1.^m72$	$0.^m20$	EW	
BW7 V154	$18^h03^m51.^s39$	$-30°02'22.''9$	$0.^d44542$	724.5135	$17.^m68$	$1.^m54$	$0.^m43$	EW	
BW7 V155	$18^h04^m45.^s04$	$-30°06'05.''6$	$0.^d57934$	724.7486	$17.^m67$	$1.^m82$	$0.^m30$	EW	
BW7 V156	$18^h04^m39.^s16$	$-29°56'36.''9$	$0.^d48903$	724.6779	$17.^m69$	$1.^m51$	$0.^m28$	EW	
BW7 V157	$18^h04^m29.^s24$	$-29°56'45.''8$	$1.^d74212$	723.9711	$17.^m70$	$1.^m56$	$1.^m11$	EA	
BW7 V158	$18^h04^m14.^s59$	$-30°05'19.''2$	$0.^d49714$	724.5433	$17.^m70$	$1.^m51$	$0.^m34$	EW	
BW7 V159	$18^h04^m35.^s75$	$-29°59'36.''1$	$0.^d90572$	723.9800	$17.^m71$	$1.^m58$	$0.^m43$	EA	
BW7 V160	$18^h04^m11.^s05$	$-30°02'02.''6$	$0.^d54139$	724.7355	$17.^m73$	$1.^m57$	$0.^m48$	EW	
BW7 V161	$18^h04^m05.^s19$	$-30°06'27.''7$	$0.^d46279$	724.3311	$17.^m73$	$1.^m96$	$0.^m43$	EW	
BW7 V162	$18^h03^m51.^s40$	$-29°57'06.''8$	$0.^d38002$	724.4143	$17.^m79$	$1.^m65$	$0.^m27$	EW	
BW7 V163	$18^h04^m12.^s97$	$-30°01'44.''2$	$0.^d63925$	724.5790	$17.^m79$	$1.^m33$	$0.^m52$	EW	
BW7 V164	$18^h04^m41.^s08$	$-30°00'14.''9$	$0.^d46585$	724.5430	$17.^m80$	$1.^m48$	$0.^m35$	EW	
BW7 V165	$18^h03^m57.^s05$	$-29°57'07.''1$	$0.^d90359$	724.0693	$17.^m79$	$1.^m86$	$0.^m30$	E	

Table 9

Eclipsing Variable Stars in the BW8 field

Star ID OGLE	α_{2000}	δ_{2000}	P	$T_0 -$ 2 448 000	I	$(V-I)$	ΔI	Type	Remarks
BW8 V5	$18^h03^m05.^s27$	$-29^\circ48'37.''9$	$0.^d43701$	724.7911	$14.^m64$	$1.^m01$	$0.^m45$	EW	Blanco39
BW8 V13	$18^h03^m21.^s51$	$-29^\circ49'02.''6$	$38.^d50998$	678.8924	$15.^m02$	$1.^m64$	$0.^m13$	E?	
BW8 V21	$18^h02^m58.^s76$	$-29^\circ45'23.''1$	$13.^d94773$	703.5653	$15.^m26$	$1.^m84$	$0.^m16$	E	
BW8 V24	$18^h03^m38.^s12$	$-29^\circ49'44.''8$	$1.^d45793$	723.2426	$15.^m32$	$1.^m15$	$0.^m14$	E	
BW8 V27	$18^h03^m30.^s29$	$-29^\circ47'01.''4$	$0.^d36003$	724.7206	$15.^m44$	$1.^m11$	$0.^m42$	EW	
BW8 V31	$18^h03^m21.^s82$	$-29^\circ50'26.''2$	$0.^d44348$	724.2091	$15.^m48$	$1.^m02$	$0.^m39$	EW	
BW8 V45	$18^h03^m42.^s93$	$-29^\circ54'23.''9$	$0.^d30122$	724.6383	$15.^m92$	$1.^m25$	$0.^m33$	EW	
BW8 V46	$18^h03^m00.^s18$	$-29^\circ50'08.''3$	$0.^d87445$	724.3078	$15.^m93$	$1.^m17$	$0.^m28$	EW	
BW8 V49	$18^h03^m11.^s29$	$-29^\circ50'40.''7$	$2.^d72075$	722.4299	$16.^m07$	$1.^m25$	$0.^m80$	EA	
BW8 V50	$18^h03^m03.^s24$	$-29^\circ43'28.''5$	$0.^d37661$	724.6609	$16.^m09$	$1.^m37$	$0.^m26$	EW	
BW8 V53	$18^h03^m13.^s63$	$-29^\circ49'13.''8$	$2.^d51256$	722.6424	$16.^m13$	$1.^m03$	$0.^m19$	E	
BW8 V55	$18^h03^m40.^s22$	$-29^\circ53'24.''0$	$1.^d57954$	723.5873	$16.^m18$	$1.^m23$	$0.^m18$	EA	
BW8 V56	$18^h02^m57.^s66$	$-29^\circ55'04.''3$	$2.^d60058$	721.6802	$16.^m18$	$1.^m31$	$0.^m92$	EA	
BW8 V57	$18^h03^m02.^s67$	$-29^\circ50'22.''2$	$3.^d83057$	723.8358	$16.^m20$	$1.^m32$	$0.^m96$	EA	
BW8 V60	$18^h03^m10.^s70$	$-29^\circ45'58.''2$	$0.^d86555$	724.0360	$16.^m24$	$1.^m20$	$0.^m17$	EW	
BW8 V62	$18^h03^m40.^s22$	$-29^\circ54'07.''5$	$0.^d81516$	724.4938	$16.^m32$	$1.^m23$	$0.^m23$	EW	
BW8 V63	$18^h02^m56.^s73$	$-29^\circ52'15.''9$	$0.^d61483$	724.7438	$16.^m34$	$1.^m35$	$0.^m42$	EW	
BW8 V68	$18^h03^m00.^s56$	$-29^\circ43'25.''3$	$0.^d97949$	724.8640	$16.^m50$	–	$0.^m21$	EA	
BW8 V69	$18^h03^m19.^s90$	$-29^\circ48'47.''0$	$0.^d71958$	724.0299	$16.^m51$	$1.^m22$	$0.^m23$	EW	
BW8 V70	$18^h03^m18.^s88$	$-29^\circ42'24.''3$	$0.^d95874$	724.6924	$16.^m52$	$1.^m73$	$0.^m15$	EW	
BW8 V71	$18^h03^m09.^s62$	$-29^\circ53'15.''8$	$1.^d56410$	723.6825	$16.^m52$	$1.^m26$	$0.^m42$	EA	
BW8 V72	$18^h02^m57.^s97$	$-29^\circ50'27.''8$	$0.^d28382$	724.6725	$16.^m54$	$2.^m04$	$0.^m54$	EW	
BW8 V73	$18^h03^m45.^s64$	$-29^\circ55'38.''1$	$0.^d37692$	724.6193	$16.^m58$	$1.^m44$	$0.^m16$	EW	
BW8 V74	$18^h03^m21.^s23$	$-29^\circ50'00.''3$	$0.^d24702$	724.5882	$16.^m59$	$1.^m70$	$0.^m51$	EW	
BW8 V75	$18^h03^m01.^s42$	$-29^\circ54'42.''0$	$0.^d62423$	724.5450	$16.^m61$	$1.^m48$	$0.^m25$	EW	
BW8 V77	$18^h03^m25.^s33$	$-29^\circ51'00.''9$	$0.^d61220$	724.8289	$16.^m75$	$1.^m16$	$0.^m54$	EW	
BW8 V78	$18^h03^m26.^s38$	$-29^\circ54'15.''4$	$0.^d58552$	724.6419	$16.^m75$	$1.^m28$	$0.^m28$	EW	
BW8 V79	$18^h03^m34.^s97$	$-29^\circ45'47.''7$	$0.^d48752$	724.6644	$16.^m75$	$1.^m58$	$0.^m18$	EW	
BW8 V80	$18^h03^m41.^s98$	$-29^\circ48'14.''3$	$2.^d11374$	722.7279	$16.^m76$	$2.^m11$	$0.^m85$	EA	
BW8 V81	$18^h02^m58.^s46$	$-29^\circ45'03.''4$	$0.^d55419$	724.6699	$16.^m81$	$1.^m17$	$0.^m20$	EW	
BW8 V82	$18^h03^m30.^s31$	$-29^\circ53'49.''1$	$0.^d51346$	724.3930	$16.^m81$	$1.^m39$	$0.^m26$	EW	
BW8 V84	$18^h03^m03.^s21$	$-29^\circ50'59.''7$	$1.^d70898$	723.8889	$16.^m86$	$1.^m44$	$0.^m28$	EA	
BW8 V85	$18^h03^m06.^s52$	$-29^\circ51'57.''3$	$2.^d46350$	721.8532	$16.^m87$	$1.^m05$	$0.^m38$	EA	
BW8 V86	$18^h03^m22.^s34$	$-29^\circ47'29.''7$	$0.^d96007$	724.1375	$16.^m88$	$1.^m13$	$0.^m36$	EA	
BW8 V89	$18^h03^m35.^s95$	$-29^\circ48'35.''8$	$0.^d97324$	723.4297	$16.^m94$	$1.^m61$	$0.^m30$	EW	
BW8 V90	$18^h03^m31.^s29$	$-29^\circ54'33.''2$	$0.^d64960$	724.9445	$16.^m97$	$1.^m17$	$0.^m33$	EW	
BW8 V93	$18^h03^m42.^s65$	$-29^\circ44'45.''1$	$1.^d49609$	723.3540	$16.^m99$	$1.^m44$	$1.^m17$	EA	
BW8 V94	$18^h03^m07.^s65$	$-29^\circ53'46.''5$	$0.^d49446$	724.8072	$17.^m01$	$1.^m61$	$0.^m27$	EW	
BW8 V95	$18^h03^m07.^s53$	$-29^\circ45'43.''5$	$0.^d36752$	724.7472	$17.^m02$	$1.^m64$	$0.^m32$	EW	
BW8 V96	$18^h03^m13.^s16$	$-29^\circ43'01.''5$	$0.^d57378$	724.4271	$17.^m07$	–	$0.^m35$	EW	
BW8 V99	$18^h03^m37.^s14$	$-29^\circ46'21.''4$	$0.^d55663$	724.3543	$17.^m07$	$1.^m58$	$0.^m40$	EW	
BW8 V101	$18^h03^m40.^s06$	$-29^\circ52'39.''4$	$0.^d51299$	724.7251	$17.^m09$	$1.^m54$	$0.^m35$	EW	
BW8 V102	$18^h03^m03.^s52$	$-29^\circ45'01.''3$	$3.^d68589$	720.1713	$17.^m10$	–	$0.^m81$	EA	

Table 9

concluded

Star ID OGLE	α_{2000}	δ_{2000}	P	T_0 – 2 448 000	I	$(V-I)$	ΔI	Type	Remarks
BW8 V103	$18^{h}03^{m}17.^{s}73$	$-29^{\circ}51'07.''3$	$0.^{d}52533$	724.8566	$17.^{m}11$	$1.^{m}23$	$0.^{m}18$	EW	
BW8 V104	$18^{h}03^{m}00.^{s}54$	$-29^{\circ}53'06.''2$	$0.^{d}60400$	724.3808	$17.^{m}11$	$1.^{m}28$	$0.^{m}27$	EW	
BW8 V106	$18^{h}03^{m}15.^{s}76$	$-29^{\circ}42'47.''2$	$0.^{d}38176$	724.8049	$17.^{m}15$	$1.^{m}68$	$0.^{m}29$	EW	
BW8 V108	$18^{h}03^{m}07.^{s}77$	$-29^{\circ}54'47.''0$	$1.^{d}78118$	723.8395	$17.^{m}16$	$1.^{m}37$	$0.^{m}24$	E	
BW8 V109	$18^{h}03^{m}17.^{s}42$	$-29^{\circ}53'46.''7$	$0.^{d}47679$	724.3070	$17.^{m}17$	$1.^{m}55$	$0.^{m}31$	EW	
BW8 V110	$18^{h}03^{m}24.^{s}64$	$-29^{\circ}51'08.''3$	$1.^{d}09805$	724.1717	$17.^{m}18$	$1.^{m}39$	$0.^{m}19$	EW?	
BW8 V111	$18^{h}03^{m}42.^{s}37$	$-29^{\circ}42'51.''9$	$0.^{d}90887$	723.7968	$17.^{m}18$	$1.^{m}68$	$0.^{m}38$	EW	
BW8 V112	$18^{h}03^{m}42.^{s}23$	$-29^{\circ}53'05.''2$	$2.^{d}42442$	723.1924	$17.^{m}18$	$1.^{m}99$	$1.^{m}01$	EA	
BW8 V113	$18^{h}02^{m}57.^{s}94$	$-29^{\circ}47'38.''2$	$0.^{d}57491$	724.4556	$17.^{m}19$	$1.^{m}30$	$0.^{m}47$	EW	
BW8 V114	$18^{h}03^{m}49.^{s}44$	$-29^{\circ}48'41.''5$	$1.^{d}20566$	724.2098	$17.^{m}20$	$1.^{m}55$	$0.^{m}26$	EW	
BW8 V117	$18^{h}03^{m}35.^{s}55$	$-29^{\circ}43'42.''0$	$0.^{d}50967$	724.6753	$17.^{m}29$	$1.^{m}75$	$0.^{m}22$	EW	
BW8 V118	$18^{h}03^{m}17.^{s}09$	$-29^{\circ}50'00.''9$	$0.^{d}59985$	724.2289	$17.^{m}33$	$1.^{m}07$	$0.^{m}30$	EW	
BW8 V119	$18^{h}03^{m}49.^{s}87$	$-29^{\circ}48'49.''0$	$0.^{d}84970$	724.1594	$17.^{m}32$	$1.^{m}25$	$0.^{m}34$	EW	
BW8 V121	$18^{h}03^{m}03.^{s}79$	$-29^{\circ}43'53.''9$	$0.^{d}91971$	724.5806	$17.^{m}35$	$1.^{m}72$	$0.^{m}33$	EW	
BW8 V122	$18^{h}03^{m}00.^{s}40$	$-29^{\circ}42'36.''6$	$0.^{d}53792$	724.4793	$17.^{m}36$	$1.^{m}72$	$0.^{m}25$	EW	
BW8 V123	$18^{h}03^{m}14.^{s}66$	$-29^{\circ}43'21.''5$	$0.^{d}52095$	724.5560	$17.^{m}38$	$1.^{m}67$	$0.^{m}35$	EW	
BW8 V125	$18^{h}03^{m}17.^{s}86$	$-29^{\circ}44'31.''9$	$0.^{d}45539$	724.8953	$17.^{m}41$	$1.^{m}53$	$0.^{m}80$	EW	
BW8 V126	$18^{h}03^{m}15.^{s}56$	$-29^{\circ}47'41.''9$	$1.^{d}14801$	723.6291	$17.^{m}42$	$1.^{m}44$	$0.^{m}25$	EA	
BW8 V127	$18^{h}03^{m}12.^{s}53$	$-29^{\circ}46'51.''5$	$0.^{d}71194$	724.2751	$17.^{m}42$	$1.^{m}37$	$0.^{m}23$	EW	
BW8 V128	$18^{h}03^{m}17.^{s}14$	$-29^{\circ}50'53.''2$	$0.^{d}71149$	724.0414	$17.^{m}44$	$1.^{m}26$	$0.^{m}54$	EW	
BW8 V129	$18^{h}03^{m}07.^{s}94$	$-29^{\circ}53'18.''9$	$0.^{d}34184$	724.4000	$17.^{m}44$	$1.^{m}61$	$0.^{m}53$	EW	
BW8 V130	$18^{h}03^{m}13.^{s}34$	$-29^{\circ}52'22.''6$	$0.^{d}49340$	724.6235	$17.^{m}46$	$1.^{m}06$	$0.^{m}47$	EW	
BW8 V131	$18^{h}03^{m}09.^{s}97$	$-29^{\circ}44'04.''7$	$1.^{d}53936$	724.6599	$17.^{m}45$	$1.^{m}55$	$0.^{m}48$	EA	
BW8 V132	$18^{h}03^{m}13.^{s}80$	$-29^{\circ}49'10.''3$	$0.^{d}44448$	724.6006	$17.^{m}46$	$1.^{m}46$	$0.^{m}25$	EW	
BW8 V133	$18^{h}02^{m}52.^{s}52$	$-29^{\circ}44'38.''9$	$0.^{d}50921$	724.5121	$17.^{m}48$	$1.^{m}37$	$0.^{m}51$	EW	
BW8 V134	$18^{h}03^{m}40.^{s}95$	$-29^{\circ}55'05.''8$	$0.^{d}77370$	724.2258	$17.^{m}56$	–	$0.^{m}77$	EW?	
BW8 V135	$18^{h}03^{m}28.^{s}75$	$-29^{\circ}54'19.''9$	$0.^{d}44074$	724.1706	$17.^{m}59$	–	$0.^{m}43$	EW	
BW8 V136	$18^{h}03^{m}25.^{s}09$	$-29^{\circ}52'17.''9$	$0.^{d}38269$	724.6652	$17.^{m}58$	$1.^{m}42$	$0.^{m}21$	EW	
BW8 V137	$18^{h}03^{m}39.^{s}89$	$-29^{\circ}45'46.''2$	$0.^{d}47651$	724.7341	$17.^{m}60$	$1.^{m}80$	$0.^{m}40$	EW	
BW8 V138	$18^{h}02^{m}51.^{s}43$	$-29^{\circ}44'29.''0$	$0.^{d}28768$	724.8411	$17.^{m}64$	$1.^{m}72$	$0.^{m}46$	EW	
BW8 V139	$18^{h}03^{m}05.^{s}73$	$-29^{\circ}52'55.''5$	$0.^{d}46007$	724.3986	$17.^{m}64$	$1.^{m}49$	$0.^{m}28$	EW	
BW8 V140	$18^{h}03^{m}32.^{s}97$	$-29^{\circ}47'45.''8$	$0.^{d}49544$	724.3724	$17.^{m}64$	$1.^{m}82$	$0.^{m}52$	EW	
BW8 V141	$18^{h}03^{m}13.^{s}90$	$-29^{\circ}48'13.''6$	$0.^{d}40510$	724.4347	$17.^{m}67$	–	$0.^{m}46$	EW	
BW8 V142	$18^{h}03^{m}10.^{s}99$	$-29^{\circ}52'29.''6$	$0.^{d}35985$	724.5303	$17.^{m}67$	–	$0.^{m}49$	EW	
BW8 V143	$18^{h}03^{m}22.^{s}39$	$-29^{\circ}50'59.''7$	$0.^{d}38054$	724.5904	$17.^{m}70$	$1.^{m}30$	$0.^{m}40$	EW	
BW8 V145	$18^{h}02^{m}57.^{s}24$	$-29^{\circ}52'43.''8$	$1.^{d}73016$	724.7043	$17.^{m}70$	$1.^{m}45$	$0.^{m}77$	EA	
BW8 V146	$18^{h}03^{m}02.^{s}72$	$-29^{\circ}42'43.''7$	$0.^{d}58852$	724.3122	$17.^{m}70$	$1.^{m}90$	$0.^{m}61$	EW	
BW8 V147	$18^{h}03^{m}00.^{s}11$	$-29^{\circ}43'42.''7$	$0.^{d}54106$	723.9745	$17.^{m}72$	$1.^{m}34$	$0.^{m}37$	EW	
BW8 V148	$18^{h}03^{m}26.^{s}56$	$-29^{\circ}53'34.''1$	$0.^{d}43362$	724.4867	$17.^{m}76$	$1.^{m}62$	$0.^{m}40$	EW	
BW8 V149	$18^{h}03^{m}40.^{s}96$	$-29^{\circ}47'52.''2$	$0.^{d}48838$	724.6245	$17.^{m}77$	$1.^{m}94$	$0.^{m}33$	EW	
BW8 V150	$18^{h}03^{m}24.^{s}84$	$-29^{\circ}43'20.''7$	$0.^{d}41876$	724.7215	$17.^{m}80$	$1.^{m}52$	$0.^{m}51$	EW	
BW8 V151	$18^{h}03^{m}30.^{s}93$	$-29^{\circ}50'45.''3$	$0.^{d}35191$	724.6717	$17.^{m}84$	$1.^{m}78$	$0.^{m}32$	EW	