

AAVSO Eclipsing Binary Ephemeris for January 2004

all times U.T.

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	RT	TW	WZ	XZ	AB	XZ	OO	V342	V343	V346	CX	WW	WW	Y	SV	AL	RZ	TV	AB	U	XX	EG	SS	R	UU	
	AND	AND	AND	AND	AND	AQL	AQL	AQL	AQL	AQL	AQR	AUR	AUR	CAM	CAM	CAM	CAS	CAS	CAS	CEP	CEP	CEP	CET	CMA	CMA	
MAX	9.3	8.8	11.6	10.0	9.3	9.3	9.2	9.0	10.6	9.0	10.7	5.7	5.7	10.6	8.6	10.5	6.4	7.3	10.2	6.7	8.5	9.6	9.4	6.2	10.0	
MIN	10.2	11.0	12.6	13.0	10.2	11.2	10.1	12.5	12.3	10.4	12.0	6.4	6.4	12.4	9.4	11.3	7.8	8.4	12.2	9.8	9.6	10.6	13.0	6.8	12.5	
DUR	3	11	4	3	3	7	3	7	4	4	3	5	5	10	3	5	4	4	4	4	4	3	5	4	5	
	(S)																									
0- 1					0.5		1.0						1.5					2.5	5.5	3.0		10.0				
1- 2	3.5		4.5	7.0	0.5		1.5					7.5			2.5										4.0	
2- 3	9.5				0.5		1.5							11.5	7.0							1.0		7.0		
3- 4	0.5		6.5		0.5					1.5	2.5				11.5	5.5	1.5				5.5	3.5		10.5	2.5	
4- 5	7.0														1.5		6.0		8.0			5.5				
5- 6			8.5	8.5									2.5		6.0		10.5			3.0		7.5			6.5	
6- 7	4.0		1.0									9.0			10.5							9.5				
7- 8	10.5														1.0	5.0		9.0	1.5						10.5	
8- 9	1.5		3.0	2.0	7.5						2.5				5.5				10.0			1.0				
9-10	7.5			10.5	7.5	0.5								2.0	10.0		0.5	4.5				3.0		2.5		
10-11			5.5		7.5								3.5				5.5			2.5	5.5	5.0		6.0		
11-12	5.0				7.5							10.0			4.5	4.5	10.0		4.0			7.5		9.0		
12-13	11.0		7.5	3.5	7.5		1.5							9.5	9.0							9.5	8.5			
13-14	2.5				7.0					0.5	2.5											11.5				
14-15	8.5		9.5		7.0					3.0					3.5							0.5				
15-16			2.0		7.0								5.0		8.0	4.0			6.0	2.0		3.0	8.0			
16-17	5.5			5.5	7.0							11.0					5.0	10.5				5.0				
17-18			4.5		7.0										3.0		9.5				6.0	7.0				
18-19	3.0				6.5						2.5				7.5			6.0				9.5	7.5	4.5	6.5	
19-20	9.0		6.5		6.5			1.0								4.0			8.5			11.5		8.0		
20-21	0.5			7.0	6.5								6.0		2.0	11.5		1.5		2.0		0.5		11.5	10.5	
21-22	6.5		8.5		6.5										6.5							2.5	6.5			
22-23			1.0		6.5									7.5	11.0		4.0		2.0			5.0				
23-24	4.0		10.5		6.0						3.0				1.0	3.5	9.0		11.0			7.0				
24-25	10.0	1.5	3.5	9.0	6.0					2.0	5.5	1.0			5.5	11.5					6.0	9.0	6.0			
25-26	1.0				6.0								7.5		10.0					1.5		11.0				
26-27	7.0		5.5		6.0	3.0									0.5				4.5			0.5		3.5		
27-28				2.0	6.0										5.0	3.0		7.5				2.5	5.5	7.0		
28-29	4.5	4.5	7.5	10.5	5.5						3.0				9.5	11.0	3.5				4.5			10.0		
29-30	10.5				5.5		0.5				5.5	2.0					8.5	3.0				6.5				
30-31	2.0		9.5		5.5				2.5				8.5		4.0				7.0	1.0		9.0	5.0			

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	U	V	W	W	RV	Y	SW	WW	ZZ	BR	CG	V346	V387	V477	W	TT	TY	YY	FZ	Z	TW	UZ	UZ	AI	YY
	CRB	CRT	CRV	CRV	CRV	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	DEL	DEL	DEL	DEL	DEL	DRA	DRA	DRA	DRA	DRA	ERI
MAX	7.6	9.5	10.6	10.6	9.0	7.0	9.3	9.9	10.7	9.4	11.0	11.8	11.5	8.3	9.4	10.6	9.6	11	10.2	10.8	7.8	9.9	9.9	7.2	8.4
MIN	8.8	10.2	11.2	11.2	10.0	7.6	11.8	13.2	12.0	10.5	11.8	13.6	12.3	9.2	12.7	12.5	10.8	12	11.3	13.6	9.5	10.7	10.7	8.2	9.1
DUR	5	4	4	4	4	6	5	5	4	4	3	5	3	4	7	5	4	4	3	4	5	5	5	4	3
				(S)		(S)																	(S)		
0- 1				10.0					6.0									2.5		8.0	11.5			3.5	1.0
1- 2		9.5	9.0			3.5					4.5		0.5											8.0	0.0
2- 3				8.5					3.0	0.5									1.0			4.0			7.0
3- 4			7.5					4.5			2.0									1.5	7.0				6.5
4- 5			11.5	7.0		3.0			0.5				5.5					2.0		10.0					5.5
5- 6				11.0								3.0										10.5			4.5
6- 7		7.5	10.0							0.0			3.5	2.0								2.0		3.5	3.5
7- 8				9.5		3.0			4.0							2.5				3.0			1.5	8.0	3.0
8- 9		10.0	9.0								3.0		1.5				1.0			11.5					2.0
9-10				8.0					1.0										2.0						1.0
10-11			7.5			3.0					0.5											8.0			0.5
11-12	9.5		11.5																	5.0					7.0
12-13				10.5					4.5						3.5									3.0	6.5
13-14		8.0	10.0			3.0		3.5	10.5		4.5		4.5	3.0			1.5						8.0	5.5	
14-15				9.0					2.0																4.5
15-16		10.5	8.5								2.0		3.0							6.5		5.0			4.0
16-17				7.5		3.0						2.5							3.0						3.0
17-18				11.5					5.0				1.0									7.5			2.0
18-19			11.0						11.5		5.5											11.5		3.0	1.0
19-20				10.0	11.5	3.0			2.5						1.0	0.5	3.5			8.5			8.0	0.5	
20-21		8.5	9.5								3.0		6.0	4.0					1.0		3.0		2.5		7.0
21-22				9.0																					6.5
22-23		11.0	8.0		11.5	2.5			6.0		0.5		4.0							1.5					5.5
23-24								2.5										2.5		10.0			9.0		4.5
24-25				11.5					3.0				2.0											3.0	4.0
25-26			10.5		11.0	2.5	3.5				4.0													7.5	3.0
26-27				10.0					0.5								4.0			3.0					2.0
27-28		9.0	9.0						6.5		1.5	2.0	7.0	5.0				2.0	2.5	11.5					1.0
28-29				8.5	10.5	2.5																6.5			0.5
29-30		11.5							4.0				5.0												7.5
30-31			11.5								5.5									5.0				2.5	6.5

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	YY	RW	SZ	TU	CT	AV	SW	VX	CM	SS	delt	EW	FL	RU	RU	RW	BO	EQ	ER	FL	U	TY	Z	RT	RV
	ERI	GEM	HER	HER	HER	HYA	LAC	LAC	LAC	LIB	LIB	LYR	LYR	MON	MON	MON	MON	ORI	ORI	ORI	PEG	PEG	PER	PER	PER
MAX	8.4	9.6	10.2	10.6	9.9	10.2	9.2	10.9	8.5	10.4	4.8	11.2	8.7	10.6	10.6	9.1	10.8	10.3	9.5	10.5	9.7	10.5	9.9	10.6	10.3
MIN	9.1	11.6	12.0	13.4	11.2	10.6	10.0	12.3	9.5	11.3	5.9	13.6	9.5	11.3	11.3	11.9	12.1	13.3	10.2	13.2	10.5	12.6	12.4	12.0	12.7
DUR	3	5	4	5	4	4	3	4	4	6	7	5	4	5	5	5	5	4	3	3	3	6	6	4	8
	(S)												(S)												
0- 1	5.0		11.0				6.0	3.0											10.0		5.0			6.0	5.5
1- 2	4.0	4.5		10.0		5.0	5.0	4.5					9.0				11.5		6.5					2.5	
2- 3	3.5						4.5	6.5			10.0				8.5			6.0	3.0	5.5	2.0				4.5
3- 4	2.5				11.0	6.5	3.5												9.0		5.0				
4- 5	1.5	1.5					2.5												5.5						4.0
5- 6	0.5					7.5	1.5												2.0	8.0	2.0			8.5	
6- 7	7.5						0.5												8.5		5.0			4.5	3.5
7- 8	6.5					9.0			4.5										4.5			1.0	1.0		
8- 9	6.0						6.5							2.0		10.0	4.0		1.0	10.5	2.0				2.5
9-10	5.0		11.0			10.0	5.5											6.0	7.5		5.0				
10-11	4.0			11.5			5.0					2.0				8.0	9.5		4.0				2.5	10.5	2.0
11-12	3.5					11.0	4.0												10.5		2.0			7.0	
12-13	2.5				9.5	3.5	3.0												6.5		5.0			3.5	1.5
13-14	1.5						2.0	0.5							2.5				3.0	2.0			4.0		
14-15	1.0					5.0	1.0	2.0				10.5				3.5			9.5		2.0				1.0
15-16	7.5			0.5			8.0	4.0	5.0					6.0					6.0		5.0				
16-17	7.0					6.0	7.0	5.5								1.0		5.5	2.0	4.5			5.0	9.5	
17-18	6.0						6.0	7.5											8.5		2.0			6.0	
18-19	5.0	9.0	11.0			7.0	5.0												5.0		5.0			2.0	
19-20	4.0						4.5			11.5							7.0		1.0	7.0		1.0	6.5		
20-21	3.5		2.0			8.5	3.5		0.5		11.0				6.5				7.5		2.0				
21-22	2.5	6.0					2.5											11.0	4.0		5.0			11.5	
22-23	1.5					9.5	1.5							10.0					0.5	9.5	7.5	3.0	8.0	8.0	
23-24	1.0						0.5		5.5				3.5						7.0		1.5			4.5	
24-25	7.5	2.5		2.0		11.0	7.5												3.0		4.5			1.0	
25-26	7.0						6.5												9.5		7.5	5.0	9.0		
26-27	6.0						5.5												6.0		1.5				
27-28	5.0		11.0			4.5	4.5							10.5	11.5				2.5	1.5	4.5			10.5	
28-29	4.5				11.0		4.0	1.5	1.5								4.5	11.0	9.0		7.5	7.5	10.5	7.0	
29-30	3.5		2.0			5.5	3.0	3.0							9.5				5.0		1.5			3.0	
30-31	2.5						2.0	5.0				4.5					10.0	4.5	1.5	3.5	4.5				

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	ST	XZ	beta	Y	U	V505	RW	AC	AM	V	X	RV	W	TX	VV	XZ	RU	AG	BU
	PER	PER	PER	PSC	SGE	SGR	TAU	TAU	TAU	TRI	TRI	TRI	UMA	UMA	UMA	UMA	UMI	VIR	VUL
MAX	9.7	10.6	2.2	9.0	6.4	6.4	8.0	10.5	10.4	10.9	8.9	11.4	9.1	6.8	10.1	10.1	10.7	8.8	10.6
MIN	13.2	12.7	3.5	12.0	9.1	7.6	12.5	12.3	12.3	11.9	12.0	12.5	9.9	8.9	11.0	11.7	11.4	9.4	11.4
DUR	5	4	8	7	6	5	4	6	4	4	4	4	3	6	3	3	4	4	3

0- 1					1.0					11.5				3.0	3.0	11.0		2.5	
1- 2										2.5				3.0		3.5		3.5	
2- 3			4.0				2.0			6.5	9.0	5.0	3.0					4.5	11.5
3- 4	8.0			2.5							8.5		3.0	4.5	5.0			6.0	3.0
4- 5		1.5								0.5	7.5		3.0			4.5	7.0	10.0	
5- 6		5.0	1.0							4.5	7.0	5.5	3.0		6.5	10.0	8.5		
6- 7		8.5								8.5	6.0		3.0	6.0			9.5	8.0	
7- 8											5.5		3.0		8.0		10.5		2.5
8- 9										3.0	5.0	6.0	3.5		0.5			6.5	
9-10										7.0	4.0		3.5	7.5	9.5	2.0	0.5		
10-11							9.5				3.5		3.5		2.0	7.0	1.5		
11-12	7.0									1.0	3.0	6.5	3.5		11.0		3.0	11.5	2.5
12-13		3.0								5.0	2.0	0.5	3.5	9.0	3.5		4.0		
13-14		6.5					4.0			9.0	1.5		3.5				5.5	10.0	
14-15		10.0									1.0	6.5	3.5		5.0		6.5		
15-16										3.5		0.5	3.5	10.5		4.5	7.5	8.0	2.0
16-17										7.5			3.5		6.5	10.0	9.0		
17-18											7.0	3.5					10.0	6.5	
18-19				4.0						1.5	1.0	3.5			8.0		11.5		
19-20	5.5	1.0	9.0							5.5		3.5			0.5				1.5
20-21		4.5				1.5				9.5		7.5	3.5		9.5	2.0	1.0	11.5	5.0
21-22		8.0					11.5					1.5	3.5		2.0	7.0	2.5		
22-23		11.5	5.5							4.0			3.5		11.0		3.5	9.5	
23-24										8.0		7.5	3.5		3.5		4.5		1.0
24-25							6.0					2.0	3.5				6.0	8.0	4.5
25-26			2.5							2.0			3.5		5.0		7.0		
26-27										6.0		8.0	3.5			4.5	8.5		
27-28	4.5	2.0			2.0		0.0		1.0	10.5		2.0	3.5		6.5	10.0	9.5		0.5
28-29		6.0						1.0		0.5			3.5				10.5		4.0
29-30		9.5							2.0	4.5		8.5	3.5		8.0			11.5	
30-31							2.0			8.5		2.5	3.5		0.5		0.5		

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	RT	TW	WZ	XZ	AB	OO	V346	RY	CX	WW	WW	ZZ	Y	SV	AL	RZ	TV	AB	U	XX	EG	SS	R	UU	U	
	AND	AND	AND	AND	AND	AQL	AQL	AQR	AQR	AUR	AUR	BOO	CAM	CAM	CAM	CAS	CAS	CAS	CEP	CEP	CEP	CET	CMA	CMA	CRB	
MAX	9.3	8.8	11.6	10.0	9.3	9.2	9.0	8.8	10.7	5.7	5.7	6.8	10.6	8.6	10.5	6.4	7.3	10.2	6.7	8.5	9.6	9.4	6.2	10.0	7.6	
MIN	10.2	11.0	12.6	13.0	10.2	10.1	10.4	10.1	12.0	6.4	6.4	7.6	12.4	9.4	11.3	7.8	8.4	12.2	9.8	9.6	10.6	13.0	6.8	12.5	8.8	
DUR	3	11	4	3	3	3	4	5	3	5	5	5	10	3	5	4	4	4	4	4	3	5	4	5	5	
											(S)															
0- 1	8.0		2.0	3.5		11.0								8.5	3.0				6.5	11.0				6.0		
1- 2												5.5			10.5											
2- 3	5.5		4.5		5.0									3.0							2.0	4.0				
3- 4					5.0					3.5				7.5		3.0		9.5			4.5		2.5			
4- 5	2.5		6.5	5.5	5.0						9.5				2.5	8.0			1.0		6.5		5.5			
5- 6	9.0				5.0									2.5	10.5		9.0				8.5	3.5	9.0			
6- 7					4.5									7.0				3.0			10.5					
7- 8	6.0		1.0		4.5									11.5			4.5			6.5						
8- 9				7.0	4.5					4.5				1.5	2.0							2.0	3.0			
9-10	3.5		3.5		4.5						11.0			6.0	10.0	2.5					4.0					
10-11	9.5				4.5									10.5		7.0		5.5			6.0					
11-12			5.5		4.0							3.5									8.5	2.5	1.5	2.0	11.0	
12-13	7.0			9.0	4.0									5.0	1.5						10.5		4.5			
13-14			7.5		4.0					6.0				9.5	9.5								8.0	6.0		
14-15	4.0				4.0							11.0					10.5	8.0	7.0	1.5	1.5					
15-16	10.5			2.0	4.0									4.5		2.0					4.0			10.0		
16-17	1.5		2.0		3.5									9.0	1.5	6.5	6.0				6.0					
17-18	7.5				3.5			3.0							9.0			1.5			8.0	1.0				
18-19			4.5		3.5				7.0	0.5				3.5			1.5	10.5			10.5				9.0	
19-20	5.0			3.5	3.5									8.0												
20-21	11.0		6.5		3.5										1.0						1.5		3.5			
21-22	2.0				3.0								1.5	2.5	9.0	1.5		4.0	7.5	3.5		6.5				
22-23	8.5		8.5		3.0			1.0		2.0				7.0		6.0					6.0		10.0			
23-24			1.0	5.5	3.0					8.0						11.0					8.0					
24-25	5.5				3.0		1.5						9.0	2.0							10.0			2.0		
25-26			3.5		3.0							11.0		6.5	8.5		7.5	6.5							6.5	
26-27	3.0	1.0			2.5				0.5					11.0							1.5			6.0		
27-28	9.0		5.5	7.0	2.5				3.5	3.0				1.0		1.0	3.0				3.5					
28-29					2.5					9.5				5.5		5.5				7.5	5.5		2.0	10.0		

	V	W	W	RV	Y	SW	WW	ZZ	BR	CG	V346	V387	TY	YY	FZ	Z	TW	UZ	UZ	AI	YY	YY	RW	SZ	TU
MAX	9.5	10.6	10.6	9.0	7.0	9.3	9.9	10.7	9.4	11.0	11.8	11.5	9.6	11	10.2	10.8	7.8	9.9	9.9	7.2	8.4	8.4	9.6	10.2	10.6
MIN	10.2	11.2	11.2	10.0	7.6	11.8	13.2	12.0	10.5	11.8	13.6	12.3	10.8	12	11.3	13.6	9.5	10.7	10.7	8.2	9.1	9.1	11.6	12.0	13.4
DUR	4	4	4	4	6	5	5	4	4	3	5	3	4	4	3	4	5	5	5	4	3	3	5	4	5
			(S)		(S)														(S)			(S)			
0- 1		6.5	11.0	10.5				1.0	8.0			3.0					8.5			7.5	5.5	1.5			
1- 2	7.0	10.0	5.5																		4.5	1.0		9.0	
2- 3		5.0	9.5				1.0					1.5								3.5	4.0				
3- 4	9.5	9.0		10.0											6.5	4.0					3.0	7.0			
4- 5			8.0					10.5	8.0												2.0	6.0			10.0
5- 6		7.5					9.0	2.0											10.0		1.5	5.0		11.0	
6- 7	5.0		6.5	10.0	2.5			8.0												7.5		4.5			
7- 8		6.0	10.5							10.5	1.5					8.5		1.0				3.5	10.5		
8- 9	7.5	10.0	5.0						8.0	1.5		11.0										6.5	2.5		
9-10			9.0	9.5	2.0							2.5										5.5	2.0		
10-11	10.0	8.5						2.5								1.5		7.5				5.0	1.0	7.5	8.5
11-12			7.5					8.5							10.0						2.5	4.0			
12-13		7.0		9.5	2.0	10.5														7.0	3.0	7.0			
13-14	5.5	11.0	6.5							2.5			1.0									2.0	6.0	4.0	
14-15		5.5	10.5													3.5	9.5					1.5	5.0		11.0
15-16	8.0	9.5		9.0	2.0			3.0											5.0				4.5		
16-17			9.0					9.5				3.5										7.5	3.5	1.0	
17-18	10.5	8.0															4.5				2.5	6.5	2.5		
18-19			7.5	9.0	2.0								1.5			5.0			11.0	7.0		5.5	2.0		
19-20		6.5																				5.0	1.0		8.5
20-21	6.0	10.5	6.0					4.0		1.5									2.0			4.0	8.0		
21-22			10.0	8.5	2.0			10.0														3.0	7.0		
22-23	8.5	9.0						1.0								6.5						2.0	6.0		
23-24			8.5									4.5		1.0						8.5		1.5	5.5		11.0
24-25	11.0	8.0		8.5	2.0															7.0		8.5	4.5		
25-26			7.0					4.5		2.5		3.0			2.0							7.5	3.5		
26-27		6.5	11.0			3.5		10.5								8.5						6.5	2.5		
27-28	6.5	10.5		8.0	1.5			2.0				1.0										5.5	2.0		
28-29			9.5														10.0		6.0			5.0	1.0		

	CT	AV	SW	VX	CM	SS	delt	T	EW	FL	RU	RU	RW	BO	U	EQ	ER	FL	U	TY	AQ	RT	RV	ST	XZ
	HER	HYA	LAC	LAC	LAC	LIB	LIB	LMI	LYR	LYR	MON	MON	MON	MON	OPH	ORI	ORI	ORI	PEG	PEG	PEG	PER	PER	PER	PER
MAX	9.9	10.2	9.2	10.9	8.5	10.4	4.8	10.2	11.2	8.7	10.6	10.6	9.1	10.8	5.8	10.3	9.5	10.5	9.7	10.5	10.3	10.6	10.3	9.7	10.6
MIN	11.2	10.6	10.0	12.3	9.5	11.3	5.9	12.6	13.6	9.5	11.3	11.3	11.9	12.1	6.5	13.3	10.2	13.2	10.5	12.6	13.0	12.0	12.7	13.2	12.7
DUR	4	4	3	4	4	6	7	6	5	4	5	5	5	5	5	4	3	3	3	6	10	4	8	5	4

(S)

0- 1		7.0	1.0																						
1- 2						10.0		2.5							10.5		8.0			1.5					
2- 3		8.0									4.0		5.0					6.0				9.0			
3- 4										1.0							7.0				5.5				
4- 5		9.5	5.0					3.0					2.5				3.5		1.5		2.0		3.0	3.5	
5- 6		1.5	4.0		2.0													8.5	4.5					7.5	
6- 7	9.5	10.5	3.5				7.5							2.0	4.5	6.0									11.0
7- 8		3.0	2.5					3.5		9.5		5.0					2.5		1.5						
8- 9			1.5												7.5		9.0		4.5			8.0			
9-10		4.0									8.0						5.5					4.0			
10-11								4.0									1.5		1.5						
11-12		5.5															8.0		4.5						1.5
12-13			5.5	2.5													4.5						1.5	5.0	
13-14		6.5	4.5	4.0	2.5			4.5								4.0	1.0	2.5	1.5		10.0				9.0
14-15			3.5									9.0					7.0		4.5			6.5			
15-16	8.0	7.5	3.0														3.5					3.0			
16-17			2.0					5.0		2.5							10.0	5.0	1.5		1.5				
17-18		9.0	1.0										11.0	5.5			6.5		4.5					9.0	
18-19																	2.5								
19-20		10.0						5.0					8.5	10.5			9.0	7.5	1.5			9.0			3.0
20-21		2.5	6.0							11.0	2.5					3.5	5.5		4.5			5.0			6.5
21-22			5.0		3.0								6.5				2.0					1.5			10.5
22-23		3.5	4.0					5.5									8.5		1.5	1.0					
23-24			3.5										4.0				4.5		4.5						
24-25		5.0	2.5		10.5												1.0					11.0			
25-26			1.5					6.0				3.0	2.0			9.5	7.5		1.0	3.5		7.5		7.5	
26-27		6.0		1.5										3.0			4.0		4.0			4.0	11.0		1.0
27-28			3.5							6.5						3.0	10.5	1.5							4.5
28-29		7.5	6.5	5.5				6.5	10.5					8.5			6.5		1.0	5.5			10.0		8.0

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	beta	Y	RW	AC	AM	V	X	RV	W	TX	VV	XZ	RU	AG	BU
	PER	PSC	TAU	TAU	TAU	TRI	TRI	TRI	UMA	UMA	UMA	UMA	UMI	VIR	VUL
MAX	2.2	9.0	8.0	10.5	10.4	10.9	8.9	11.4	9.1	6.8	10.1	10.1	10.7	8.8	10.6
MIN	3.5	12.0	12.5	12.3	12.3	11.9	12.0	12.5	9.9	8.9	11.0	11.7	11.4	9.4	11.4
DUR	8	7	4	6	4	4	4	4	3	6	3	3	4	4	3

0- 1					3.0				4.0		9.5	2.0	1.5	9.5	
1- 2				3.0		2.5			4.0		2.0	7.0	3.0		
2- 3					4.5	6.5		3.0	4.0		11.0		4.0	8.0	
3- 4				4.0					4.0		3.5		5.0		
4- 5			7.5		5.5	1.0			4.0				6.5	6.0	
5- 6				5.0		5.0		3.0	4.0		5.0		7.5		
6- 7					6.5				4.0			4.5	9.0	4.5	
7- 8			2.0	6.0			7.5		4.0		6.5	10.0	10.0		
8- 9					7.5	3.0	7.0	3.5	4.0				11.0		
9-10				7.0			6.5		4.0		8.0			9.5	
10-11					8.5		5.5		4.0				1.0		
11-12	7.5			8.0		1.5	5.0	4.0	4.0		9.5	2.0	2.0	8.0	
12-13					9.5	5.5	4.5		4.0		2.0	7.0	3.5		
13-14							3.5		4.0		11.0		4.5	6.0	2.5
14-15	4.0			10.5			3.0	4.0	4.0		3.5		6.0		
15-16			9.5			3.5	2.0		4.0	2.0			7.0	4.5	
16-17							1.5		4.0		5.0		8.0	11.0	
17-18	1.0						1.0	4.5	4.0			4.5	9.5		2.0
18-19			4.0			2.0			4.0	3.5	6.5	10.0	10.5	9.5	
19-20						6.0			4.0						
20-21								5.0	4.0		8.0			8.0	
21-22		1.5							4.0	5.0			1.5		1.5
22-23						4.5			4.0		9.5	2.0	3.0	6.0	
23-24								5.5	4.5		2.0	7.0	4.0		
24-25									4.5	6.5	11.0		5.0	4.5	
25-26						2.5			4.5		3.5		6.5	11.0	1.0
26-27						6.5		5.5	4.5				7.5		
27-28									4.5	8.0	5.0		9.0	9.5	
28-29									4.5			4.5	10.0		

AAVSO Eclipsing Binary Ephemeris for March 2004

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	RT	WZ	XZ	AB	OO	WW	WW	ZZ	Y	SV	AL	RZ	TV	AB	U	XX	EG	R	UU	U	V	W	W	RV	SW
	AND	AND	AND	AND	AQL	AUR	AUR	BOO	CAM	CAM	CAM	CAS	CAS	CAS	CEP	CEP	CEP	CMA	CMA	CRB	CRT	CRV	CRV	CRV	CYG
MAX	9.3	11.6	10.0	9.3	9.2	5.7	5.7	6.8	10.6	8.6	10.5	6.4	7.3	10.2	6.7	8.5	9.6	6.2	10.0	7.6	9.5	10.6	10.6	9.0	9.3
MIN	10.2	12.6	13.0	10.2	10.1	6.4	6.4	7.6	12.4	9.4	11.3	7.8	8.4	12.2	9.8	9.6	10.6	6.8	12.5	8.8	10.2	11.2	11.2	10.0	11.8
DUR	3	4	3	3	3	5	5	5	10	3	5	4	4	4	4	4	3	4	5	5	4	4	4	4	5
							(S)																		
0- 1	6.5			2.5						10.0	8.0	10.0		9.0			7.5	5.5			9.0	9.0	4.0		
1- 2				2.5													10.0				2.0	3.5	8.0	8.0	
2- 3	3.5			2.0	9.0					4.5												7.5	2.5		
3- 4	10.0	2.0		2.0	9.5		4.5			9.0				2.5					4.5	4.5		6.5			
4- 5				2.0	9.5						8.0						3.0					6.0		7.5	
5- 6	7.0	4.5	2.0	2.0	10.0				7.0	4.0		5.0	9.0				5.5				7.0	10.0	5.5		
6- 7				1.5	10.5					8.5		9.5				8.0	7.5					4.5	9.0		7.0
7- 8	4.5												4.5	5.0			9.5				9.5	8.5	4.0	7.5	
8- 9							5.5			3.0	7.5							4.5	2.0		2.5	3.0	8.0		
9-10			4.0							7.5							7.5				7.0				
10-11	8.0																3.0		6.0		5.0		6.5	7.0	
11-12										2.0		4.5		7.0			5.0					5.5	10.5		
12-13	5.0	3.5								6.5	7.0	9.0					7.5				7.5	9.5	5.0		
13-14			5.5				7.0									8.0	9.5					4.0	9.0	7.0	
14-15	2.5	5.5											10.5								10.0	8.0	3.5		
15-16	8.5							5.0	6.0					9.5							3.0		7.5		
16-17									10.0	6.5		6.0					3.0	3.0				6.5		6.5	
17-18	6.0		7.0									4.0			10.0		5.0	6.5			5.5		6.0		
18-19							8.0			5.0		8.5		3.0			7.0					5.5	10.0		
19-20	3.0	2.0								9.5							9.0				8.0	9.0	4.5	6.0	
20-21	9.5										6.5					8.5						4.0	8.5		
21-22		4.5						10.0		4.0									2.0			8.0			
22-23	6.5					3.0				8.5				5.5	9.5		2.5				3.5		7.0	6.0	
23-24		6.5					9.0					3.0					4.5		6.0			6.5			
24-25	4.0		2.0							3.5	6.0	8.0					7.0	2.0			6.0	10.5	5.5		
25-26	10.0								3.0	7.5			7.5				9.0	5.5				5.0	9.5	5.5	
26-27								10.0						8.0				8.5				8.5	9.0		
27-28	7.5					4.0				2.5			3.0		9.5	8.5			8.5				8.0		
28-29		3.5	4.0						10.5	7.0	5.5											7.5		5.5	
29-30	4.5											2.5									4.0		6.5		
30-31		5.5										7.5										6.0			

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	RV	W	TX	VV	XZ	RU	AG	BU
	TRI	UMA	UMA	UMA	UMA	UMI	VIR	VUL
MAX	11.4	9.1	6.8	10.1	10.1	10.7	8.8	10.6
MIN	12.5	9.9	8.9	11.0	11.7	11.4	9.4	11.4
DUR	4	3	6	3	3	4	4	3

0- 1	6.0	4.5		6.5	10.0		7.5	
1- 2		4.5	9.5					
2- 3		4.5		8.0			6.0	
3- 4		4.5				2.0		
4- 5		4.5		9.5	2.0	3.5	4.0	
5- 6		4.5		2.0	7.0	4.5		
6- 7	6.5	4.5				5.5	2.5	
7- 8		4.5		3.5		7.0	9.5	10.0
8- 9		4.5				8.0		
9-10		4.5		5.0		9.5	7.5	
10-11		4.5			4.5			
11-12		4.5		6.5	10.0		6.0	10.0
12-13		4.5						
13-14		4.5		8.0			4.0	
14-15		4.5				2.5		
15-16		4.5		9.5	2.0	4.0	2.5	9.5
16-17	2.0	4.5		2.0	7.0	5.0	9.5	
17-18		5.0				6.5		
18-19		5.0		3.5		7.5	7.5	
19-20	2.0	5.0				8.5		
20-21		5.0		5.0		10.0	6.0	
21-22		5.0			4.5			
22-23	2.5	5.0		6.5	10.0		4.0	
23-24		5.0						
24-25		5.0		8.0		2.0	2.5	
25-26	3.0	5.0				3.5	9.0	
26-27		5.0		9.0	2.0	4.5		
27-28		5.0		1.5	7.5	5.5	7.5	
28-29	3.5	5.0				7.0		
29-30		5.0		3.0		8.0	6.0	
30-31		5.0				9.5		

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	RV	SW	WW	ZZ	BR	CG	V346	V387	V477	TY	YY	FZ	Z	TW	UZ	UZ	AI	YY	YY	RW	SZ	TU	CT	AV	SW
	CRV	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	DEL	DEL	DEL	DRA	DRA	DRA	DRA	DRA	ERI	ERI	GEM	HER	HER	HER	HYA	LAC
MAX	9.0	9.3	9.9	10.7	9.4	11.0	11.8	11.5	8.3	9.6	11	10.2	10.8	7.8	9.9	9.9	7.2	8.4	8.4	9.6	10.2	10.6	9.9	10.2	9.2
MIN	10.0	11.8	13.2	12.0	10.5	11.8	13.6	12.3	9.2	10.8	12	11.3	13.6	9.5	10.7	10.7	8.2	9.1	9.1	11.6	12.0	13.4	11.2	10.6	10.0
DUR	4	5	5	4	4	3	5	3	4	4	4	3	4	5	5	5	4	3	3	5	4	5	4	4	3
																	(S)			(S)					
0- 1	5.0			9.5	7.0			8.5			7.5		7.0				6.0				6.5				8.0
1- 2																								2.5	
2- 3				6.5		8.0		6.5						2.5					3.0						
3- 4	5.0																				8.5		4.0		
4- 5				4.0	7.0				6.5				8.5			3.0					8.5				
5- 6																					4.0	8.5	5.0		
6- 7	4.5																6.0								
7- 8		7.5		7.5		9.5	9.5	9.5				9.0				9.0		2.5						6.0	9.5
8- 9			9.5		7.0																				8.5
9-10	4.5			4.5		7.0		7.5													6.5			7.5	
10-11																						3.5			
11-12								7.5	9.5				3.5						3.0					8.5	
12-13	4.0			8.0	7.0									8.0	6.5		6.0							10.0	
13-14				5.5		8.0															8.5		6.5	2.0	
14-15																					4.0				
15-16	4.0									9.0		5.5						3.5							2.0
16-17					7.0			9.0						3.5				2.5		5.0				3.5	9.0
17-18	9.5			9.0												4.0									
18-19	3.5		8.5				9.0		8.5								5.5				6.5			4.5	
19-20				6.0		9.0				8.5		7.0							4.0			5.5		6.0	
20-21	9.5				7.0														3.0						
21-22	3.5																								
22-23				9.5																	8.5			7.0	
23-24	9.0											8.5						4.5				5.0		2.5	
24-25	3.0			6.5	6.5												5.5	3.5					8.5	9.5	
25-26								8.0	9.5						7.5			2.5							
26-27	9.0					8.0																		9.5	
27-28														8.5							6.5				
28-29			7.5		6.5														4.0			7.0			
29-30	8.5			7.5			8.5												3.0					3.0	

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	W	TX	VV	XZ	RU	AG	BU
	UMA	UMA	UMA	UMA	UMI	VIR	VUL
MAX	9.1	6.8	10.1	10.1	10.7	8.8	10.6
MIN	9.9	8.9	11.0	11.7	11.4	9.4	11.4
DUR	3	6	3	3	4	4	3

0- 1	5.0		4.5			4.0	8.0
1- 2	5.0			4.5			
2- 3	5.0		6.0			2.5	
3- 4	5.0					9.0	
4- 5	5.0		7.5		2.5		7.5
5- 6	5.0				4.0	7.5	
6- 7	5.0		9.0		5.0		
7- 8	5.0	3.5		7.5	6.0	5.5	
8- 9	5.0				7.5		7.0
9-10	5.5		3.0		8.5	4.0	
10-11	5.5	5.0			10.0		
11-12	5.5		4.5			2.0	
12-13	5.5			4.5		9.0	
13-14	5.5	6.5	6.0				
14-15	5.5					7.5	
15-16	5.5		7.5		3.0		
16-17	5.5	8.0			4.5	5.5	
17-18	5.5		9.0		5.5		9.5
18-19	5.5			7.5	7.0	4.0	
19-20	5.5	9.5			8.0		
20-21	5.5		3.0		9.0	2.0	
21-22	5.5					9.0	9.0
22-23	5.5		4.5				
23-24	5.5			4.5		7.5	
24-25	5.5		6.0				
25-26	5.5				2.5	5.5	8.5
26-27	5.5		7.5		4.0		
27-28	5.5				5.0	4.0	
28-29	5.5		9.0		6.0		
29-30	5.5			7.5	7.5		

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	RT	TW	XZ	AB	XZ	OO	V342	V343	V346	WW	WW	ZZ	Y	SV	AL	RZ	TV	AB	U	XX	EG	R	U	V	W
	AND	AND	AND	AND	AQL	AQL	AQL	AQL	AQL	AUR	AUR	BOO	CAM	CAM	CAM	CAS	CAS	CAS	CEP	CEP	CEP	CMA	CRB	CRT	CRV
MAX	9.3	8.8	10.0	9.3	9.3	9.2	9.0	10.6	9.0	5.7	5.7	6.8	10.6	8.6	10.5	6.4	7.3	10.2	6.7	8.5	9.6	6.2	7.6	9.5	10.6
MIN	10.2	11.0	13.0	10.2	11.2	10.1	12.5	12.3	10.4	6.4	6.4	7.6	12.4	9.4	11.3	7.8	8.4	12.2	9.8	9.6	10.6	6.8	8.8	10.2	11.2
DUR	3	11	3	3	7	3	7	4	4	5	5	5	10	3	5	4	4	4	4	4	4	4	5	4	4
											(S)														
0- 1	6.5										6.0	8.5				9.0					7.5				7.0
1- 2								8.0											7.0					3.5	
2- 3	4.0													6.5			9.0	6.0							5.5
3- 4						5.0																		6.0	
4- 5						5.0											4.5				3.0	7.5			4.0
5- 6	7.5					5.5						8.5		6.0		4.0					5.5				8.0
6- 7						6.0	8.5									8.5		8.0	6.5		7.5				3.0
7- 8	4.5					6.0																			7.0
8- 9						6.5								5.0										4.0	
9-10						7.0			7.0																5.5
10-11	8.0					7.0						8.0									3.0			6.5	
11-12						7.5							4.0		3.5				6.5		5.0	5.5		4.0	
12-13	5.5					8.0							8.5		8.0						7.0				8.0
13-14						8.0										6.0	4.0								
14-15		9.0				8.5		6.0		3.5				3.5											6.5
15-16	9.0					9.0						8.0		8.0										4.5	
16-17					9.0	9.0									9.0				6.0						5.0
17-18	6.0															3.0		6.5			5.0		7.0	9.0	
18-19													7.0		7.5						7.0	3.0			3.5
19-20	3.5									4.5											9.0				7.5
20-21								8.5				8.0	7.5		9.0							3.0			
21-22														6.0				9.0	5.5						6.0
22-23	7.0																7.5					3.5		5.0	
23-24							7.0														4.5				4.5
24-25	4.0		4.0							6.0				5.5	8.5	7.0	3.0				7.0			7.5	8.5
25-26								8.0				7.5									9.0				3.0
26-27																			5.5						7.0
27-28	7.5			9.0										4.5						3.0				3.0	
28-29				9.0										9.0	8.0			5.0							5.5
29-30	5.0			9.0						7.0											4.5			5.5	
30-31				9.0					7.5			7.5	5.5	3.5		6.5					6.5				4.5

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	RV	W	TX	VV	XZ	RU	AG	BU
	TRI	UMA	UMA	UMA	UMA	UMI	VIR	VUL
MAX	11.4	9.1	6.8	10.1	10.1	10.7	8.8	10.6
MIN	12.5	9.9	8.9	11.0	11.7	11.4	9.4	11.4
DUR	4	3	6	3	3	4	4	3

0- 1		5.5				8.5	9.0	
1- 2		5.5		3.0				
2- 3		6.0					7.0	
3- 4		6.0		4.5				8.0
4- 5		6.0			4.5		5.5	
5- 6		6.0		6.0				
6- 7		6.0				3.0	4.0	
7- 8		6.0		7.5		4.5		7.5
8- 9		6.0				5.5		
9-10		6.0		9.0		6.5	9.0	
10-11		6.0			7.5	8.0		
11-12		6.0				9.0	7.0	7.0
12-13		6.0		3.0				
13-14		6.0					5.5	
14-15		6.0		4.5				
15-16		6.0			4.5		3.5	6.5
16-17	3.0	6.0		6.0				
17-18		6.0				3.5		
18-19		6.0		7.5		5.0	9.0	
19-20	3.5	6.0				6.0		6.0
20-21		6.0		9.0		7.5	7.0	
21-22		6.0			7.5	8.5		
22-23	3.5	6.0					5.5	
23-24		6.0		3.0				6.0
24-25		6.0					3.5	9.0
25-26		6.0		4.5				
26-27		6.5	4.0		4.5			
27-28		6.5		6.0		3.0	9.0	
28-29		6.5				4.5		8.5
29-30		6.5	5.5	7.5		5.5	7.0	
30-31		6.5				6.5		

	W	W	RV	SW	ZZ	BR	CG	V346	V387	V477	W	TT	TY	YY	FZ	Z	TW	UZ	UZ	AI	SZ	TU	CT	AV	SW	
	CRV	CRV	CRV	CYG	CYG	CYG	CYG	CYG	CYG	CYG	DEL	DEL	DEL	DEL	DEL	DRA	DRA	DRA	DRA	DRA	HER	HER	HER	HYA	LAC	
MAX	10.6	10.6	9.0	9.3	10.7	9.4	11.0	11.8	11.5	8.3	9.4	10.6	9.6	11	10.2	10.8	7.8	9.9	9.9	7.2	10.2	10.6	9.9	10.2	9.2	
MIN	11.2	11.2	10.0	11.8	12.0	10.5	11.8	13.6	12.3	9.2	12.7	12.5	10.8	12	11.3	13.6	9.5	10.7	10.7	8.2	12.0	13.4	11.2	10.6	10.0	
DUR	4	4	4	5	4	4	3	5	3	4	7	5	4	4	3	4	5	5	5	4	4	5	4	4	3	
		(S)																							(S)	
0- 1		3.5							5.0									4.5							6.5	
1- 2			5.5	4.5			7.0	6.5					4.5	4.5								7.0			5.5	
2- 3					6.0																6.5				4.5	
3- 4		6.0				6.0	4.5																7.0		4.0	
4- 5	5.5		5.5		3.5					7.0	8.0			8.5	8.0											
5- 6		4.5							8.0				4.5	3.5						4.5						
6- 7	4.0						8.5																		8.0	
7- 8			5.0		7.0	6.0			6.0							4.0										7.0
8- 9		7.0					6.0						7.5	6.0					8.5							6.0
9-10	6.5				4.0				4.0																	5.0
10-11		5.5	5.0	8.0																						6.0
11-12	5.0					6.0				8.0						5.5	6.5			4.5	6.5				4.5	8.0
12-13		4.5			7.5			6.0					8.0	6.5									5.5			7.0
13-14	3.5		4.5				7.0												5.5						5.5	8.5
14-15	7.5				5.0				7.0																	7.5
15-16		7.0				6.0	4.5								7.0	7.5										8.5
16-17	6.0		4.5						5.5		8.0		6.0													4.0
17-18		5.5			8.0															4.0		4.0				6.5
18-19	4.5						8.0		3.5				7.0													5.5
19-20		4.0	4.0		5.5	6.0					5.0															6.0
20-21		8.0					5.5							5.0												4.0
21-22	7.0								8.5															4.0		8.0
22-23		6.5	4.0												8.0											7.0
23-24	5.5					6.0		5.0	6.5											4.0						6.0
24-25		5.0			6.0							6.0													4.0	8.0
25-26	4.5		3.5				7.0		4.5																	7.0
26-27	8.0	3.5			3.5										6.0	4.0		7.5								6.0
27-28		7.5				6.0	4.0						8.5													6.0
28-29	7.0																							7.5	6.5	8.0
29-30		6.0			7.0																4.0	6.0				6.0

	VX	CM	SS	delt	EW	FL	RU	RW	BO	U	SX	U	RT	XZ	U	V505	V	W	TX	VV	XZ	RU	AG	BU
	LAC	LAC	LIB	LIB	LYR	LYR	MON	MON	MON	OPH	OPH	PEG	PER	PER	SGE	SGR	TRI	UMA	UMA	UMA	UMA	UMI	VIR	VUL
MAX	10.9	8.5	10.4	4.8	11.2	8.7	10.6	9.1	10.8	5.8	10.5	9.7	10.6	10.6	6.4	6.4	10.9	9.1	6.8	10.1	10.1	10.7	8.8	10.6
MIN	12.3	9.5	11.3	5.9	13.6	9.5	11.3	11.9	12.1	6.5	11.2	10.5	12.0	12.7	9.1	7.6	11.9	9.9	8.9	11.0	11.7	11.4	9.4	11.4
DUR	4	4	6	7	5	4	5	5	5	5	5	3	4	4	6	5	4	3	6	3	3	4	4	3

0- 1											6.0		7.0		4.0			6.5				8.0	5.5	5.0
1- 2		5.0	5.0							5.0								6.5	7.0		7.5			8.5
2- 3											7.5							6.5					3.5	
3- 4																		6.5						
4- 5																		6.5	8.5					4.5
5- 6															6.5	8.5		6.5		4.5				8.0
6- 7				8.0		4.5				6.0								6.5			4.5			
7- 8																		6.5		6.0		3.5	7.0	
8- 9	5.5																	6.5				5.0		4.0
9-10	7.0	6.0																6.5		7.5		6.0	5.0	7.5
10-11															7.5			6.5				7.0		
11-12			7.0							6.5			8.0					6.5				8.5	3.5	
12-13																		6.5			7.5			4.0
13-14				7.5														6.5						7.0
14-15			4.0						4.0									6.5					8.5	
15-16												8.5						6.5						
16-17										7.5								6.5		4.5			7.0	
17-18		6.5																6.5		4.5				6.5
18-19												8.5				7.0		7.0		6.0		4.0	5.0	
19-20						6.5												7.0				5.5		
20-21				7.5										5.0				7.0		7.5		6.5	3.5	
21-22			8.5							8.0		8.5						7.0				8.0		6.5
22-23																		7.0						
23-24	6.5																	7.0			7.5		8.5	
24-25	8.0		5.5		8.5			4.0				8.5						7.0						
25-26		7.0																7.0					7.0	6.0
26-27					7.0													7.0						
27-28				7.0								8.5			5.0			7.0		4.5			5.0	
28-29					6.0		3.5											7.0			4.5	3.5		
29-30													4.0					7.0		6.0		5.0		5.5

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	RT	TW	WZ	XZ	AB	XZ	OO	V342	V343	V346	RY	CX	WW	ZZ	Y	SV	AL	RW	RZ	TV	AB	U	XX	EG	U	
	AND	AND	AND	AND	AND	AQL	AQL	AQL	AQL	AQL	AQR	AQR	AUR	BOO	CAM	CAM	CAM	CAP	CAS	CAS	CAS	CEP	CEP	CEP	CRB	
MAX	9.3	8.8	11.6	10.0	9.3	9.3	9.2	9.0	10.6	9.0	8.8	10.7	5.7	6.8	10.6	8.6	10.5	9.8	6.4	7.3	10.2	6.7	8.5	9.6	7.6	
MIN	10.2	11.0	12.6	13.0	10.2	11.2	10.1	12.5	12.3	10.4	10.1	12.0	6.4	7.6	12.4	9.4	11.3	10.8	7.8	8.4	12.2	9.8	9.6	10.6	8.8	
DUR	3	11	4	3	3	7	3	7	4	4	5	3	5	5	10	3	5	6	4	4	4	4	4	3	5	
													(S)													
0- 1	6.5				5.5	7.0				7.0								3.5	8.0			3.0		7.5		
1- 2					5.5				5.0			5.5				4.5				4.5			4.5			
2- 3	4.0				5.5							8.5			7.0	9.0										
3- 4					5.5												5.0									
4- 5			5.5		5.0									6.0		3.5									3.0	
5- 6	7.5			6.0	5.0											8.0			3.0						5.0	
6- 7			7.5		5.0							6.0							7.5						7.5	
7- 8	4.5				5.0							8.5					4.5									
8- 9					5.0											7.0					5.5		5.0			
9-10				7.5	4.5									6.0												
10-11	8.0				4.5													8.0		6.0						
11-12			4.5		4.5		3.0									6.5	4.0								5.0	
12-13	5.5				4.5		3.5		7.0			8.5			5.0				7.0		7.5				7.0	9.0
13-14			6.5		4.5		3.5	4.0																		
14-15					4.0		4.0		3.0					5.5		5.5										
15-16	9.0	5.0	8.5		4.0	6.5	4.5																		5.0	
16-17					4.0		4.5					6.0														
17-18	6.0				4.0		5.0					8.5				4.5										5.0
18-19					4.0		5.5									9.0			6.5							7.0
19-20	3.5	8.0			3.5		5.5						5.5				3.5			7.5	3.5				9.0	6.5
20-21			5.5		3.5		6.0			5.0						4.0										
21-22					3.5		6.5			7.5		6.0				8.5				3.0						
22-23	7.0		7.5		3.5		6.5					9.0			3.0									5.5		
23-24							7.0	8.0	8.5							3.0	3.0				6.0				4.5	
24-25	4.5			6.0			7.5							5.5		7.5			6.0						6.5	
25-26							7.5		4.5																9.0	
26-27							8.0					6.0														4.0
27-28	7.5						8.0					9.0				6.5		7.0			8.5					
28-29				7.5			8.5				9.0									9.0						
29-30	5.0		6.5				9.0							5.0										6.0	4.5	
30-31						6.0				4.0	8.0		4.0			6.0			5.5	4.5					6.5	

	V	W	W	RV	Y	SW	WW	ZZ	BR	CG	V346	V387	V477	W	TT	TY	YY	FZ	Z	TW	UZ	UZ	AI	SZ	TU
	CRT	CRV	CRV	CRV	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	DEL	DEL	DEL	DEL	DEL	DRA	DRA	DRA	DRA	DRA	HER	HER
MAX	9.5	10.6	10.6	9.0	7.0	9.3	9.9	10.7	9.4	11.0	11.8	11.5	8.3	9.4	10.6	9.6	11	10.2	10.8	7.8	9.9	9.9	7.2	10.2	10.6
MIN	10.2	11.2	11.2	10.0	7.6	11.8	13.2	12.0	10.5	11.8	13.6	12.3	9.2	12.7	12.5	10.8	12	11.3	13.6	9.5	10.7	10.7	8.2	12.0	13.4
DUR	4	4	4	4	6	5	5	4	4	3	5	3	4	7	5	4	4	3	4	5	5	5	4	4	5
			(S)																			(S)			
0- 1					8.5		8.5			8.0		7.5				5.0		4.0	5.5				8.5		
1- 2			4.5	3.0				4.0	6.0								7.5				4.0				
2- 3		4.0								5.5		5.5													
3- 4			3.0		8.5	4.5								4.0				7.5						8.5	
4- 5								7.5			4.5	4.0							7.5					4.0	
5- 6									5.5								6.5						4.0		7.0
6- 7	3.5				8.5			5.0								4.0							8.5		
7- 8		5.0								6.5		8.5	3.5			8.5		5.5							
8- 9			4.5																					6.0	
9-10		3.5			8.5			8.0	5.5	4.0		7.0			7.5		6.0			8.0	8.0				
10-11			3.0				7.5											8.5							
11-12								5.5				5.0						3.5					3.5		
12-13					8.5	8.0				8.0					4.5					3.5			8.5	8.5	
13-14	4.0		5.5						5.5			3.0				7.5	5.0							4.0	
14-15		4.5						9.0		5.0			4.5					6.5			5.0				9.0
15-16			4.0		8.0						4.0								4.0						
16-17		3.5						6.0				8.0													
17-18									5.5	9.0							4.0						3.5	6.0	
18-19					8.0			3.5				6.0						4.5					8.5		
19-20		6.0								6.5						6.5			5.5						
20-21	4.5		5.0				6.0					4.0					8.5								
21-22		4.5			8.0			7.0	5.5	4.0			5.5				3.5	7.5						8.5	4.0
22-23			3.5																		9.0			4.0	
23-24		3.0						4.0				9.0							7.5	9.0			3.5		
24-25					8.0					7.5							7.5						8.0		
25-26			6.0						5.5			7.0				5.0		5.5							
26-27		5.5						7.5		5.0	3.5									4.5				6.0	
27-28	5.0		4.5		8.0							5.5		5.0								6.5			
28-29		4.0						5.0					6.5					6.5	9.0						
29-30			3.5						5.5	8.5		3.5											3.0		
30-31				6.5	8.0		5.0																8.0	8.5	5.5

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	RV	W	TX	VV	XZ	RU	AG	BU
	TRI	UMA	UMA	UMA	UMA	UMI	VIR	VUL
MAX	11.4	9.1	6.8	10.1	10.1	10.7	8.8	10.6
MIN	12.5	9.9	8.9	11.0	11.7	11.4	9.4	11.4
DUR	4	3	6	3	3	4	4	3

0- 1	8.0	7.0				6.0		9.0
1- 2		7.0		7.5		7.0		
2- 3		7.0				8.5		
3- 4	8.5	7.0		9.0				5.0
4- 5		7.0			7.5			8.5
5- 6		7.0						
6- 7	9.0	7.0					5.0	
7- 8		7.0						4.5
8- 9		7.0		4.5		3.0	3.5	8.0
9-10		7.0			5.0	4.0		
10-11		7.0		6.0		5.5		
11-12		7.5				6.5		4.0
12-13		7.5		7.5		7.5		7.5
13-14		7.5				9.0	6.5	
14-15		7.5	4.0	9.0				
15-16		7.5			7.5		5.0	4.0
16-17		7.5						7.0
17-18		7.5	5.5				3.0	
18-19		7.5						
19-20		7.5		4.5		3.5		3.5
20-21		7.5	7.0		5.0	4.5		6.5
21-22		7.5		5.5		6.0		
22-23		7.5				7.0	6.5	
23-24		7.5	8.5	7.0		8.5		3.0
24-25		7.5					5.0	6.5
25-26		7.5		8.5				
26-27		7.5			7.5		3.0	
27-28		7.5						
28-29		7.5						6.0
29-30		7.5				3.0		
30-31		7.5		4.0		4.0		

AAVSO Eclipsing Binary Ephemeris for August 2004

all times U.T.

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	RT	TW	WZ	XZ	AB	XZ	OO	V342	V343	V346	RY	CX	WW	ZZ	Y	SV	AL	RW	RZ	TV	AB	XX	EG	SS	U	
	AND	AND	AND	AND	AND	AQL	AQL	AQL	AQL	AQL	AQR	AQR	AUR	BOO	CAM	CAM	CAM	CAP	CAS	CAS	CAS	CEP	CEP	CET	CRB	
MAX	9.3	8.8	11.6	10.0	9.3	9.3	9.2	9.0	10.6	9.0	8.8	10.7	5.7	6.8	10.6	8.6	10.5	9.8	6.4	7.3	10.2	8.5	9.6	9.4	7.6	
MIN	10.2	11.0	12.6	13.0	10.2	11.2	10.1	12.5	12.3	10.4	10.1	12.0	6.4	7.6	12.4	9.4	11.3	10.8	7.8	8.4	12.2	9.6	10.6	13.0	8.8	
DUR	3	11	4	3	3	7	3	7	4	4	5	3	5	5	10	3	5	6	4	4	4	4	3	5	5	
	(S)																									
0- 1	2.5		8.5		2.5		9.5			6.5		6.5					2.5								8.5	
1- 2	8.5			9.5	2.5	9.0				9.0	7.0	9.0														
2- 3					2.0											5.0										
3- 4	6.0		3.5								6.5			5.0		9.5					4.5					
4- 5				2.5								3.5			8.5										4.0	
5- 6	3.0		5.5						6.5		5.5	6.5				4.0			5.0			6.0	6.5			
6- 7	9.0				10.0							9.0				8.5			9.5						8.5	
7- 8			7.5		9.5					2.5	5.0										7.0					
8- 9	6.5			4.0	9.5									4.5		3.5			6.0							
9-10			9.5		9.5			7.0		3.0	4.0	4.0				8.0	9.5									
10-11	4.0		2.5		9.5					5.5		6.5													4.0	
11-12					9.5					8.0	3.0	9.0				2.5			4.0		9.5				6.0	
12-13			4.5	6.0	9.0											7.0			9.0			6.5	8.0			
13-14	7.5				9.0						2.5			4.5			9.0	6.0								
14-15			6.5		9.0	5.0						4.0			6.5						3.0					
15-16	4.5				9.0		2.5					6.5				6.0										
16-17			8.5	7.5	8.5	8.5	2.5		8.0			9.5													3.5	
17-18		4.5			8.5		3.0										9.0		3.5	7.5					6.0	
18-19	8.0				8.5		3.0		4.0					4.5		5.5			8.5		5.5				8.0	
19-20			3.5		8.5		3.5					4.0				9.5				3.0		6.5			8.0	
20-21	5.5			9.5	8.5		4.0			4.5		6.5														
21-22		7.5	5.5		8.0		4.0					7.0				4.5	8.5									
22-23	2.5				8.0		4.5					9.5				9.0					8.0		3.5	9.5		
23-24	9.0		7.5		8.0		5.0							4.0					3.0						5.5	
24-25					8.0		5.0					4.0	10.0		4.5	3.5			7.5						7.5	
25-26	6.0		9.5		8.0		5.5					7.0				8.0	8.0									9.0
26-27					7.5		6.0	6.0				9.5								9.0		7.0				6.0
27-28	3.5			4.5	7.5		6.0		9.5								3.0									
28-29	9.5		4.5		7.5		6.5							4.0		7.5				4.5			3.0	8.5		
29-30					7.5	4.5	7.0		6.0			4.0					7.5		2.5		4.0		5.5			
30-31	7.0		6.5		7.5		7.0			3.5		7.0						5.0	7.0				7.5			

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	RW	AM	V	X	RV	W	TX	VV	XZ	RU	AG	BU
	TAU	TAU	TRI	TRI	TRI	UMA	UMA	UMA	UMA	UMI	VIR	VUL
MAX	8.0	10.4	10.9	8.9	11.4	9.1	6.8	10.1	10.1	10.7	8.8	10.6
MIN	12.5	12.3	11.9	12.0	12.5	9.9	8.9	11.0	11.7	11.4	9.4	11.4
DUR	4	4	4	4	4	3	6	3	3	4	4	3

0- 1				4.5	6.0	7.5			5.0	5.5		2.0
1- 2				4.0		7.5		5.5		6.5		5.5
2- 3	7.0		6.5			7.5				7.5		9.0
3- 4					6.0	8.0		7.0		9.0		
4- 5						8.0					3.0	
5- 6			5.0			8.0		8.5				5.0
6- 7			9.0		6.5	8.0						8.5
7- 8						8.0						
8- 9						8.0		2.5		2.5		
9-10			7.0		7.0	8.0				3.5		4.5
10-11						8.0		4.0		4.5		8.0
11-12						8.0			5.0	6.0	4.5	
12-13			5.5		7.5	8.0		5.5		7.0		
13-14	8.5		9.5			8.0				8.0	3.0	4.5
14-15						8.0		7.0		9.5		7.5
15-16					7.5	8.0						
16-17		9.5	8.0			8.0		8.5				
17-18						8.0						4.0
18-19					8.0	8.0						7.0
19-20			6.0			8.0		2.5		3.0		
20-21						8.0				4.0	4.5	
21-22					8.5	8.0		4.0		5.0		3.5
22-23						8.0			5.0	6.5	3.0	7.0
23-24			8.5			8.0		5.5		7.5		
24-25					8.5	8.0				9.0		
25-26						8.0		7.0				3.0
26-27			6.5			8.5						6.5
27-28				9.5	9.0	8.5		8.5	2.0			9.5
28-29				9.0		8.5			7.5			
29-30			5.0	8.0		8.5	3.0			2.0	4.5	2.5
30-31			9.0	7.5	9.5	8.5		2.5		3.5		6.0

AAVSO Eclipsing Binary Ephemeris for September 2004

all times U.T.

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	RT	TW	WZ	XZ	AB	XZ	OO	V342	V343	V346	RY	CX	WW	ZZ	Y	SV	AL	RW	RZ	TV	AB	U	XX	EG	SS	
	AND	AND	AND	AND	AND	AQL	AQL	AQL	AQL	AQL	AQR	AQR	AUR	BOO	CAM	CAM	CAM	CAP	CAS	CAS	CAS	CEP	CEP	CEP	CET	
MAX	9.3	8.8	11.6	10.0	9.3	9.3	9.2	9.0	10.6	9.0	8.8	10.7	5.7	6.8	10.6	8.6	10.5	9.8	6.4	7.3	10.2	6.7	8.5	9.6	9.4	
MIN	10.2	11.0	12.6	13.0	10.2	11.2	10.1	12.5	12.3	10.4	10.1	12.0	6.4	7.6	12.4	9.4	11.3	10.8	7.8	8.4	12.2	9.8	9.6	10.6	13.0	
DUR	3	11	4	3	3	7	3	7	4	4	5	3	5	5	10	3	5	6	4	4	4	4	4	3	5	
0- 1				6.0	7.0	8.0	7.5		2.0	6.0		9.5				6.5								9.5	8.0	
1- 2	4.0		8.5		7.0		8.0			8.5																
2- 3	10.5		1.0		7.0		8.0					1.5	6.0	3.5			7.5				6.5		7.0			
3- 4	1.5		10.5		7.0		8.5					4.5			2.5	5.5								3.0	7.0	
4- 5	7.5		3.5	7.5	7.0		9.0					7.0				10.0			2.0	10.5					5.0	
5- 6					6.5		9.0					9.5							6.5			10.5			7.5	
6- 7	5.0		5.5		6.5		9.5								10.0	5.0	7.0			6.0	8.5				9.5	6.5
7- 8					6.5		10.0					1.5	7.0	3.5		9.0										
8- 9	2.0		7.5	9.5	6.5		10.0					4.5								1.5						
9-10	8.5				6.5				7.5	2.0		7.0				4.0					2.5		7.5	3.0	6.0	
10-11			9.5		6.0					5.0		9.5				8.5	6.5		1.5			10.0			5.0	
11-12	5.5		2.5	2.5	6.0				3.5	7.5									6.0						7.0	
12-13					6.0			4.5		10.0		2.0	8.5	3.5		3.0			10.5						9.0	5.5
13-14	3.0		4.5		6.0	4.0						4.5				7.5					4.5					
14-15	9.0				5.5							7.0					6.5									
15-16		1.5	6.5	4.5	5.5	7.5						10.0				2.5				7.5		10.0			2.5	
16-17	6.5				5.5										8.0	6.5		4.0					8.0		4.5	
17-18			8.5		5.5						2.0	9.5	3.0							5.5	3.0	7.0			7.0	
18-19	3.5		1.5		5.5							4.5				1.5	6.0		10.0						9.0	
19-20	10.0	4.0	10.5	6.0	5.0		1.5			1.0		7.0				6.0										
20-21			3.5		5.0		2.0		9.0	4.0		10.0														
21-22	7.0				5.0		2.0			6.5	10.5														2.5	
22-23			5.5		5.0		2.5	9.0	5.5	9.0		2.0	10.5	3.0		5.0	5.5								4.5	
23-24	4.5	7.0		8.0	5.0		3.0				9.5	4.5				9.5			5.0				8.0		6.5	
24-25	10.5		7.5		4.5		3.0		1.5			7.5							9.5	9.0	3.0				9.0	
25-26	1.5				4.5		3.5				9.0	10.0				4.0									9.0	
26-27	8.0		9.5		4.5		4.0								6.0	8.5	5.0	8.5		4.5						
27-28		10.0	2.5	9.5	4.5		4.0				8.0	2.0		2.5											2.0	
28-29	5.0				4.5	3.5	4.5					4.5				3.5					5.5				4.5	
29-30			4.5		4.0		5.0	3.5			7.0	7.5				8.0			4.5						6.5	

	U	W	W	RV	Y	SW	WW	ZZ	BR	CG	V346	V387	V477	W	TT	TY	YY	FZ	Z	TW	UZ	UZ	AI	YY	YY
	CRB	CRV	CRV	CRV	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	DEL	DEL	DEL	DEL	DEL	DRA	DRA	DRA	DRA	DRA	ERI	ERI
MAX	7.6	10.6	10.6	9.0	7.0	9.3	9.9	10.7	9.4	11.0	11.8	11.5	8.3	9.4	10.6	9.6	11	10.2	10.8	7.8	9.9	9.9	7.2	8.4	8.4
MIN	8.8	11.2	11.2	10.0	7.6	11.8	13.2	12.0	10.5	11.8	13.6	12.3	9.2	12.7	12.5	10.8	12	11.3	13.6	9.5	10.7	10.7	8.2	9.1	9.1
DUR	5	4	4	4	6	5	5	4	4	3	5	3	4	7	5	4	4	3	4	5	5	5	4	3	3
																						(S)			(S)
0- 1								3.5		4.5						3.5	9.0							9.5	
1- 2					7.0		9.5	9.5		10.5		2.0				8.0	4.0				3.5			8.5	
2- 3	3.5									2.0		9.0						9.5						7.5	
3- 4								7.0	5.0	8.0								4.5	9.5				2.5	6.5	10.5
4- 5					6.5							7.0					8.5				9.5	7.0		10.0	
5- 6						5.0		4.0		5.5	7.0						3.5							9.0	
6- 7								10.5				5.0	4.0			2.5		7.5	2.5	7.0				8.0	
7- 8					6.5			1.5	5.0	3.0						7.0		2.5						7.0	
8- 9								7.5		9.5							7.5							10.0	
9-10	1.5											10.0					2.5	10.5		2.0	7.0		2.5	9.5	
10-11					6.5			5.0		7.0		1.5						5.5	4.5				7.0	8.5	
11-12							8.0		5.0			8.0												7.5	
12-13								2.0		4.0						1.5	6.5							7.0	10.5
13-14					6.5			8.5		10.5		6.5	5.0	6.0	8.5	6.0	1.5	8.5							10.0
14-15						8.5				1.5						10.5		3.5	6.0			4.5		9.0	
15-16	1.5							5.5	4.5	8.0		4.5											2.0	8.0	
16-17					6.5						6.0				5.0		6.0						7.0	7.5	
17-18								3.0		5.5		2.5						6.5			10.5		10.5		
18-19								9.0				9.5		1.5				1.5	8.0					9.5	
19-20				2.0	6.0				4.5	3.0					2.0	5.0	10.0				2.0			8.5	
20-21								6.5		9.0		7.5	6.0			9.5	5.0	10.0		7.5				7.5	
21-22			2.0				7.0											4.5					2.0	10.5	
22-23				2.0	6.0			3.5		6.5		5.5							9.5		8.0		6.5	10.0	
23-24								9.5	4.5								9.0			3.0				9.0	
24-25										4.0		3.5					4.0	8.0						8.0	
25-26				1.5	6.0			7.0		10.5		10.5				4.0		2.5	2.5						
26-27	7.5									1.5		2.0				8.5								10.5	
27-28		2.5						4.5	4.5	8.0	5.5	8.5	7.0				8.5				5.5	2.0	9.5		
28-29			1.5	1.0	6.0	2.0		10.5									3.5	6.0					6.5	8.5	
29-30								1.5		5.0		6.5							4.5						

	RW	SZ	TU	CT	SW	VX	CM	SS	delt	EW	FL	RU	RU	RW	U	SX	EQ	ER	FL	U	TY	AQ	Z	RT	ST
	GEM	HER	HER	HER	LAC	LAC	LAC	LIB	LIB	LYR	LYR	MON	MON	MON	OPH	OPH	ORI	ORI	ORI	PEG	PEG	PEG	PER	PER	PER
MAX	9.6	10.2	10.6	9.9	9.2	10.9	8.5	10.4	4.8	11.2	8.7	10.6	10.6	9.1	5.8	10.5	10.3	9.5	10.5	9.7	10.5	10.3	9.9	10.6	9.7
MIN	11.6	12.0	13.4	11.2	10.0	12.3	9.5	11.3	5.9	13.6	9.5	11.3	11.3	11.9	6.5	11.2	13.3	10.2	13.2	10.5	12.6	13.0	12.4	12.0	13.2
DUR	5	4	5	4	3	4	4	6	7	5	4	5	5	5	5	5	4	3	3	3	6	10	6	4	5

(S)

0- 1		6.0			7.5													7.0		4.5					8.5
1- 2		1.5			6.5	2.5					7.5					2.5				7.5		10.5			
2- 3			6.0		6.0	4.5	7.0											10.0		1.5					
3- 4					5.0	6.0									3.5	4.0		6.5	7.0	4.5				10.5	
4- 5		8.0		4.5	4.0	8.0		3.0												7.5				6.5	
5- 6		4.0			3.0	10.0			2.5							5.5		9.0		1.5				3.0	
6- 7					2.0					9.5									9.5	4.5					
7- 8					1.0		2.5													7.5					
8- 9					8.0					8.5				9.5	4.5			8.5		1.5		9.0			7.0
9-10	8.5	6.0			7.0															4.5				9.0	
10-11		1.5			6.0		7.5			7.0										7.5				5.5	
11-12			7.5		5.5							10.0					10.5	7.5		1.5				2.0	
12-13					4.5				2.0	6.0	5.0									4.5					
13-14		8.0		3.0	3.5										5.0			10.0		7.5	3.0				
14-15		4.0			2.5			4.5		4.5	9.5									1.5					
15-16					1.5	2.0	3.0													4.5				7.5	
16-17					8.5	3.5				3.5		10.5						9.5		7.0	5.0			4.0	5.5
17-18					7.5	5.5		1.5												10.0					
18-19		6.0	2.5		6.5	7.0	8.0			2.5					6.0		10.0			4.0					
19-20		1.5			5.5	9.0			1.5									8.5		7.0	7.5				
20-21			9.0	6.5	5.0														8.5	10.0				10.0	
21-22					4.0															4.0				6.5	
22-23		8.0		1.0	3.0													7.5		7.0	9.5			3.0	
23-24		4.0			2.0		3.5				2.5				6.5					10.0					
24-25					9.0														10.5	4.0					4.5
25-26					8.0						7.0							9.5		7.0					
26-27		10.5			7.0		8.5		1.5											10.0				9.0	
27-28		6.0	4.0		6.0			3.0											9.5	4.0				5.0	
28-29		1.5			5.0										7.5					7.0					
29-30	10.0		10.5	4.5	4.5															10.0					

	XZ beta		Y	U V505		RW	V	X	RV	W	TX	VV	XZ	RU	AG	BU
	PER	PER	PSC	SGE	SGR	TAU	TRI	TRI	TRI	UMA	UMA	UMA	UMA	UMI	VIR	VUL
MAX	10.6	2.2	9.0	6.4	6.4	8.0	10.9	8.9	11.4	9.1	6.8	10.1	10.1	10.7	8.8	10.6
MIN	12.7	3.5	12.0	9.1	7.6	12.5	11.9	12.0	12.5	9.9	8.9	11.0	11.7	11.4	9.4	11.4
DUR	4	8	7	6	5	4	4	4	4	3	6	3	3	4	4	3

0- 1			2.5					7.0	3.5	8.5				4.5		9.5
1- 2							3.0	6.0		8.5		4.0		6.0		
2- 3							7.0	5.5	9.5	8.5				7.0		2.0
3- 4	1.5				4.0			5.0	4.0	8.5		5.5	10.0	8.0		5.5
4- 5	5.0				8.5			4.0		8.5				9.5		9.0
5- 6	8.5						5.5	3.5	10.0	8.5		7.0		10.5		
6- 7				5.0			9.5	2.5	4.0	8.5						2.0
7- 8						6.5				8.5		8.5	2.0			5.0
8- 9							3.5		10.5	8.5			7.5	1.5		8.5
9-10					2.0		7.5		4.5	8.5		10.0		3.0		
10-11					6.5					8.5	9.0	2.5		4.0		1.5
11-12	3.0		10.0				2.0		11.0	8.5				5.0		4.5
12-13	6.5						6.0		5.0	8.5		4.0		6.5		8.0
13-14	10.0	8.5					10.0			8.5	10.5			7.5		
14-15										8.5		5.5	10.0	8.5		
15-16			4.0				4.0		5.0	8.5				10.0		4.5
16-17		5.5		8.0	4.5		8.0			8.5		7.0				7.5
17-18					9.0					8.5						
18-19						8.5	2.5		5.5	9.0		8.5	2.0		2.5	
19-20	4.0						6.5			9.0			7.5	2.0		4.0
20-21	8.0						10.5			9.0		10.0		3.5		7.0
21-22									6.0	9.0		2.5		4.5		10.5
22-23					2.5		4.5			9.0				5.5		
23-24				2.5	7.0		8.5			9.0		4.0		7.0		3.5
24-25									6.5	9.0			5.0	8.0		7.0
25-26							3.0			9.0		5.5	10.0	9.5		10.0
26-27							7.0			9.0				10.5		
27-28	5.5								6.5	9.0		7.0			2.5	3.0
28-29	9.5									9.0						6.5
29-30				4.5	10.5	5.0	10.5			9.0		8.5	2.0	1.5		9.5

	RT	TW	WZ	XZ	AB	XZ	OO	V342	V343	V346	RY	CX	WW	WW	ZZ	Y	SV	AL	RW	RZ	TV	AB	U	XX	EG
	AND	AND	AND	AND	AND	AQL	AQL	AQL	AQL	AQL	AQR	AQR	AUR	AUR	BOO	CAM	CAM	CAM	CAP	CAS	CAS	CAS	CEP	CEP	CEP
MAX	9.3	8.8	11.6	10.0	9.3	9.3	9.2	9.0	10.6	9.0	8.8	10.7	5.7	5.7	6.8	10.6	8.6	10.5	9.8	6.4	7.3	10.2	6.7	8.5	9.6
MIN	10.2	11.0	12.6	13.0	10.2	11.2	10.1	12.5	12.3	10.4	10.1	12.0	6.4	6.4	7.6	12.4	9.4	11.3	10.8	7.8	8.4	12.2	9.8	9.6	10.6
DUR	3	11	4	3	3	7	3	7	4	4	5	3	5	5	5	10	3	5	6	4	4	4	4	4	3
														(S)											
0- 1	2.5			2.5	4.0	6.5	5.0			2.5								5.0		9.0			9.0	8.5	8.5
1- 2	8.5		6.5	11.5	4.0		5.5			5.5	6.5			7.0			2.5								10.5
2- 3					4.0		6.0			8.0		2.0			2.5		7.0					8.0			
3- 4	6.0		8.5		4.0		6.0		7.0		5.5	5.0							3.0		10.5				2.0
4- 5			1.5	4.5	3.5		6.5					7.5					2.0	4.5							4.0
5- 6	3.0		10.5		3.5		6.5		3.0		5.0	10.0					6.0			3.5	6.0	1.5	8.5	0.5	6.0
6- 7	9.5		3.5		3.5		7.0						8.0		4.0	10.5				8.5		10.5			8.5
7- 8	0.5				3.5		7.5				4.0	2.0			2.5		1.0				1.5			8.5	10.5
8- 9	6.5		5.5	6.0	3.0		7.5					5.0					5.5	4.0							
9-10					3.0		8.0				3.0	7.5				11.0	10.0					4.0			1.5
10-11	4.0		7.5		3.0					1.5		10.5											8.0		4.0
11-12	10.0				3.0					4.5	2.5			9.0			4.5			3.0					6.0
12-13	1.5		9.5	8.0	3.0					7.0		2.5			2.0		9.0	3.5		8.0				1.0	8.0
13-14	7.5		2.5		2.5	2.5					1.5	5.0										6.5			10.0
14-15					2.5				8.5			7.5					3.5				7.5			9.0	
15-16	4.5		4.5	1.0	2.5	6.0					1.0	10.5					8.0						8.0		1.5
16-17	11.0			9.5	2.5			2.5	5.0				10.5		2.0			3.5			3.0				3.5
17-18	2.0		6.5		2.5						2.5				2.0		3.0	11.5		2.5		9.0			5.5
18-19	8.0	1.0			2.0					1.0		5.0					7.5			7.5					8.0
19-20			8.5	2.5	2.0							8.0				9.0								1.0	10.0
20-21	5.5		1.5	11.5	2.0					0.5	10.5	5.5					2.0	3.0	2.5			2.5	7.5		
21-22			10.5		2.0					3.0							6.5	11.0				11.5		9.0	1.0
22-23	3.0	4.0	3.5		2.0					6.0		2.5			1.5		11.0								3.5
23-24	9.0			4.5	1.5					8.5		5.0					1.0			2.0	9.0				5.5
24-25			5.5		1.5	1.0						8.0					5.5	2.5		6.5		5.0			7.5
25-26	6.0				1.5	1.0					10.5	6.5					10.0	10.5		11.5	4.5		7.0		10.0
26-27		7.0	7.5		1.5	1.5	6.5																	1.5	
27-28	3.5			6.0	1.5	1.5			6.5			2.5			1.5		5.0								1.0
28-29	9.5		9.5		1.0	2.0	2.0					5.5					9.5	2.5				7.5		9.5	3.0
29-30	1.0		2.5		1.0	2.5			2.5			8.0			7.0		10.0			1.5					5.5
30-31	7.0	9.5			1.0	5.5	2.5				10.5	7.5					4.0		6.5	6.0			7.0		7.5

AAVSO Eclipsing Binary Ephemeris for October 2004

all times U.T.

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	R	UU	U	Y	SW	WW	ZZ	BR	CG	V346	V387	V477	W	TT	TY	YY	FZ	Z	TW	UZ	UZ	AI	YY	YY	RW
	CMA	CMA	CRB	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	DEL	DEL	DEL	DEL	DEL	DRA	DRA	DRA	DRA	DRA	ERI	ERI	GEM
MAX	6.2	10.0	7.6	7.0	9.3	9.9	10.7	9.4	11.0	11.8	11.5	8.3	9.4	10.6	9.6	11	10.2	10.8	7.8	9.9	9.9	7.2	8.4	8.4	9.6
MIN	6.8	12.5	8.8	7.6	11.8	13.2	12.0	10.5	11.8	13.6	12.3	9.2	12.7	12.5	10.8	12	11.3	13.6	9.5	10.7	10.7	8.2	9.1	9.1	11.6
DUR	4	5	5	6	5	5	4	4	3	5	3	4	7	5	4	4	3	4	5	5	5	4	3	3	5
																						(S)		(S)	
0- 1							7.5																7.0	11.0	
1- 2				6.0		6.0		4.5	2.5		5.0				2.5	7.5							6.0	10.0	
2- 3							5.0		9.0						7.5	2.5	4.0			3.0			5.0	9.0	6.5
3- 4							11.0				3.0							6.0				1.5	4.5	8.0	
4- 5	8.0			6.0			2.0		6.5		9.5	8.0							8.5			6.5	11.0	7.5	
5- 6	11.0						8.5	4.5			1.0					6.5	7.0			9.0		11.0	10.5	6.5	
6- 7		9.5							4.0		8.0			7.5		1.5	2.0						9.5	5.5	
7- 8				5.5	5.5		5.5		10.0				7.0		1.5			8.0	4.0				8.5	5.0	
8- 9									1.5	5.0	6.0				6.0								8.0		
9-10							3.0	4.5	7.5			0.5		4.5		6.0	5.0					1.5	7.0	11.0	
10-11			3.0	5.5			9.0				4.0					1.0		1.0			6.5	6.5	6.0	10.0	
11-12						5.0			5.0		11.0	9.0						9.5				11.0	5.0	9.0	
12-13							6.5		11.5		2.0		2.5	1.5			8.0							8.5	
13-14	10.0			5.5				4.5	2.5		9.0				0.5	5.0	3.0						11.5	7.5	
14-15							3.5		8.5						5.0			2.5					10.5	6.5	
15-16							10.0				7.0				9.5			11.5		4.0		1.5	9.5	5.5	
16-17				5.5	9.0		1.0		6.0	10.5		1.5				9.0	6.0					6.0	8.5		
17-18			0.5				7.0	4.5			5.0					4.0	1.0					11.0	8.0		
18-19									3.5			10.0						4.5	9.5	10.0			7.0	11.0	
19-20		9.5		5.5			4.5		10.0	4.5	3.5						9.5						6.0	10.0	11.5
20-21							10.5		1.0		10.0				4.0	8.5	4.0				1.5		5.5	9.0	
21-22					4.0	1.5	4.0	7.5			1.5				8.5	3.5			4.5			1.5		8.5	
22-23				5.0			7.5				8.0							6.0				6.0	11.5	7.5	8.0
23-24									5.0			2.5					7.5				7.5	11.0	10.5	6.5	
24-25						11.5	5.0		11.0		6.5					7.5	2.0						9.5	6.0	
25-26				5.0			11.0	4.0	2.5			11.0				2.5							9.0		
26-27							2.0		8.5		4.5			10.0	3.0			8.0					8.0		
27-28							8.5		10.0	11.0					7.5		5.5					1.0	7.0	11.0	
28-29				5.0					6.0		2.5					6.5			5.0			6.0		10.0	
29-30							5.5	4.0			9.5			7.0		1.5		1.0				10.5		9.0	
30-31	11.0				2.5				3.5	3.5	0.5	3.5					8.5	9.5						8.5	

	SZ	TU	CT	AV	SW	VX	CM	SS	delt	EW	FL	RU	RU	RW	BO	U	SX	EQ	ER	FL	U	TY	AQ	Z	RT
	HER	HER	HER	HYA	LAC	LAC	LAC	LIB	LIB	LYR	LYR	MON	MON	MON	MON	OPH	OPH	ORI	ORI	ORI	PEG	PEG	PEG	PER	PER
MAX	10.2	10.6	9.9	10.2	9.2	10.9	8.5	10.4	4.8	11.2	8.7	10.6	10.6	9.1	10.8	5.8	10.5	10.3	9.5	10.5	9.7	10.5	10.3	9.9	10.6
MIN	12.0	13.4	11.2	10.6	10.0	12.3	9.5	11.3	5.9	13.6	9.5	11.3	11.3	11.9	12.1	6.5	11.2	13.3	10.2	13.2	10.5	12.6	13.0	12.4	12.0
DUR	4	5	4	4	3	4	4	6	7	5	4	5	5	5	5	5	5	4	3	3	3	6	10	6	4

(S)

0- 1					3.5	3.0													8.5		4.0				
1- 2					2.5	4.5	4.0							6.5					5.0	5.0	7.0				11.0
2- 3	4.0				1.5	6.5												1.0	9.5	11.5	1.0				7.5
3- 4					0.5	8.5			1.0										8.0		4.0				4.0
4- 5					7.5	10.0	9.0						8.5						2.5		7.5	7.0			
5- 6					6.5															10.5				1.0	1.0
6- 7	6.0	6.0			5.5						4.0								7.0		4.0		3.0		
7- 8	1.5			10.0	4.5															10.0	7.0				10.0
8- 9			3.0		4.0						8.5									10.0	1.0			2.5	6.0
9-10				11.0	3.0		5.0												9.0	6.0	4.0				2.5
10-11					2.0			2.0								1.0					7.0				
11-12	4.0				1.0															9.0	1.0			4.0	
12-13					8.0		10.0													5.0	4.0				
13-14		1.0			7.0																7.0				8.5
14-15					6.0	2.0														8.0	1.0	1.0		5.5	5.0
15-16	6.0	7.5			5.0	4.0				9.0						2.0					4.0				1.0
16-17	1.5				4.5	5.5													8.5	11.0	7.0				
17-18			1.5		3.5	7.5	5.5			8.0	1.5									7.0	1.0	3.5	5.0	6.5	
18-19					2.5	9.5							10.5								6.5	4.0			11.0
19-20	8.0				1.5	11.0				6.5	6.0									10.0	7.0				7.0
20-21	4.0				0.5		10.5	3.5						8.0		2.5				6.5	1.0	5.5		8.0	3.5
21-22					7.5					5.5	10.0										9.0	3.5			
22-23		2.5		10.5	6.5		1.0													9.0	6.5				
23-24					5.5					4.0				10.5					8.0		0.5	7.5		9.5	
24-25	6.0		5.0		4.5							10.5								11.5	3.5				9.5
25-26	1.5				4.0		6.0			3.0						3.5			8.0		6.5				6.0
26-27					3.0																0.5	10.0		10.5	2.5
27-28					2.0					1.5											11.0	3.5			
28-29	8.0				1.0	1.5	11.0													7.5	6.5		7.5		
29-30	3.5				8.0	3.0						11.0									0.5				
30-31					7.0	5.0	1.5				3.0					4.0		8.0	10.0		3.5				8.0

	RV	ST	XZ	beta	Y	U	V505	RW	AC	AM	V	X	RV	W	TX	VV	XZ	RU	AG	BU
	PER	PER	PER	PER	PSC	SGE	SGR	TAU	TAU	TAU	TRI	TRI	TRI	UMA	UMA	UMA	UMA	UMI	VIR	VUL
MAX	10.3	9.7	10.6	2.2	9.0	6.4	6.4	8.0	10.5	10.4	10.9	8.9	11.4	9.1	6.8	10.1	10.1	10.7	8.8	10.6
MIN	12.7	13.2	12.7	3.5	12.0	9.1	7.6	12.5	12.3	12.3	11.9	12.0	12.5	9.9	8.9	11.0	11.7	11.4	9.4	11.4
DUR	8	5	4	8	7	6	5	4	6	4	4	4	4	3	6	3	3	4	4	3
0- 1					5.5					8.5	9.0	9.5	7.0	1.0		1.0	7.5	2.5		
1- 2									7.0			9.0	1.0	1.0		10.0		4.0		2.5
2- 3		3.0						5.0		9.5	3.5	8.5		1.0		2.5		5.0		6.0
3- 4				10.5		6.0			8.0		7.5	7.5	7.5	1.0		11.5		6.5		9.5
4- 5			3.5							11.0		7.0	1.5	1.0		4.0		7.5		
5- 6			7.0				2.5		9.0		1.5	6.0		1.0			5.0	8.5	11.0	2.5
6- 7	11.0		11.0	7.0							5.5	5.5	7.5	1.0		5.5	10.0	10.0		5.5
7- 8		10.0						10.0			10.0	5.0	2.0	1.0				11.0		9.0
8- 9	10.5										4.0			1.0		7.0				
9-10				4.0					11.0		4.0	3.5	8.0	1.0				1.0		2.0
10-11	9.5	1.5									8.0	3.0	2.0	1.0		8.5	2.0	2.0		5.0
11-12			1.5				0.5					2.0		1.0		1.0	7.5	3.5		8.5
12-13	9.0		5.0	0.5			5.0				2.0	1.5	8.5	1.5		10.0		4.5		
13-14			8.5					6.5			6.0	1.0	2.5	1.5		2.5		5.5		1.5
14-15	8.5										10.5			1.5	1.5	11.5		7.0		5.0
15-16		9.0			7.5								8.5	1.5		4.0		8.0		8.0
16-17	7.5										4.5		3.0	1.5			5.0	9.0		
17-18											8.5			1.5	3.0	5.5	10.5	10.5	1.0	1.0
18-19	7.0						3.0						9.0	1.5						4.5
19-20			3.0		1.5		7.5				2.5		3.0	1.5		7.0				7.5
20-21	6.5		6.5			3.5					7.0			1.5				1.5		11.0
21-22			10.0								11.0		9.5	1.5		8.5	2.5	2.5		0.5
22-23	6.0										1.0		3.5	1.5		1.0	7.5	4.0		4.0
23-24		7.5									5.0			1.5		10.0		5.0		7.5
24-25	5.0						1.0	8.5			9.0		10.0	1.5		2.5		6.0		10.5
25-26							5.5						4.0	1.5		11.5		7.5		
26-27	4.5			9.0							3.0			1.5	8.0	4.0		8.5	0.5	3.5
27-28			4.5								7.5		10.0	1.5				10.0		7.0
28-29	4.0		8.0								11.5		4.0	1.5		5.5	10.5	11.0		10.0
29-30				5.5							1.5			1.5	9.5					
30-31	3.5				9.0	7.0					5.5		10.5	1.5		7.0		1.0		3.0

	RT	TW	WZ	XZ	AB	XZ	OO	V342	V343	V346	RY	CX	WW	WW	ZZ	Y	SV	AL	RW	RZ	TV	AB	U	XX	EG
	AND	AND	AND	AND	AND	AQL	AQL	AQL	AQL	AQL	AQR	AQR	AUR	AUR	BOO	CAM	CAM	CAM	CAP	CAS	CAS	CAS	CEP	CEP	CEP
MAX	9.3	8.8	11.6	10.0	9.3	9.3	9.2	9.0	10.6	9.0	8.8	10.7	5.7	5.7	6.8	10.6	8.6	10.5	9.8	6.4	7.3	10.2	6.7	8.5	9.6
MIN	10.2	11.0	12.6	13.0	10.2	11.2	10.1	12.5	12.3	10.4	10.1	12.0	6.4	6.4	7.6	12.4	9.4	11.3	10.8	7.8	8.4	12.2	9.8	9.6	10.6
DUR	3	11	4	3	3	7	3	7	4	4	5	3	5	5	5	10	3	5	6	4	4	4	4	4	3

(S)

0- 1			4.5	8.0	1.0		3.0			2.0							8.5			11.0		1.0			9.5
1- 2	4.5				1.0		3.5			5.0		2.5						2.0			10.5	9.5			11.5
2- 3	10.5		6.5		0.5		3.5	1.5				5.5					3.0	10.0						1.5	1.0
3- 4	1.5			1.0	0.5		4.0					8.0		2.5			7.5				6.0				3.0
4- 5	8.0		8.5	9.5	0.5		4.5						9.0							1.0		3.5	6.5	10.0	5.0
5- 6			1.5		0.5		4.5										2.5	1.5		5.5	1.5				7.0
6- 7	5.0		10.5		0.0		5.0					3.0			1.0		7.0	9.5	1.5	10.5					9.5
7- 8	11.0		3.5	3.0	8.0		5.5					5.5					11.5								11.5
8- 9	2.5			11.5	8.0		5.5					8.0		4.0		5.5	1.5					5.5			0.5
9-10	8.5		5.5		8.0		6.0		4.5			10.0					6.0	1.0					6.0	2.0	2.5
10-11					8.0					1.0							10.5	9.0			0.5				5.0
11-12	6.0		7.5	4.5	7.5				0.5	3.5		3.0			1.0		0.5			5.0				10.0	7.0
12-13					7.5	1.5		5.5		6.5		5.5					5.0			9.5	7.5	8.0			9.0
13-14	3.0		9.5		7.5							8.0		5.0			9.5	1.0							11.5
14-15	9.5		2.5		7.5	5.0							11.5					9.0			3.0		6.0		0.5
15-16	0.5		11.5	6.5	7.5							0.5					4.5					2.0			2.5
16-17	6.5		4.5		7.0							3.0			0.5		9.0		5.5			10.5		2.0	4.5
17-18					7.0							5.5						0.5		4.5					7.0
18-19	4.0		6.5		7.0							8.5		6.0		3.5	3.5	8.5		9.0				10.5	9.0
19-20	10.0			8.0	7.0			0.5									8.0					4.0	5.5		11.0
20-21	1.0	0.5	8.5		7.0				6.0			0.5													
21-22	7.5		1.5		6.5					2.5		3.0			0.5	10.5	2.5				9.0				2.5
22-23			10.5	1.0	6.5				2.5	5.5		5.5					7.0	8.0							4.5
23-24	4.5		3.5	9.5	6.5							8.5		7.5			11.5		0.5	4.0	4.5	6.5		2.5	6.5
24-25	11.0	3.5			6.5												2.0			8.5			5.5		8.5
25-26	2.0		5.5		6.0							0.5					6.5							10.5	11.0
26-27	8.0			3.0	6.0							3.0			0.5		11.0	7.5							
27-28			7.5	11.5	6.0	1.0					7.0	6.0					1.0					9.0			2.0
28-29	5.5	6.5			6.0							8.5		8.5		1.5	5.5								4.0
29-30	11.5		9.5		6.0	4.0	0.5	4.5			6.5						10.0			3.5			5.0		6.5

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	R	UU	U	W	W	Y	SW	WW	ZZ	BR	CG	V346	V387	V477	W	TT	TY	YY	FZ	Z	TW	UZ	UZ	AI	YY	
	CMA	CMA	CRB	CRV	CRV	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	DEL	DEL	DEL	DEL	DEL	DRA	DRA	DRA	DRA	DRA	ERI	
MAX	6.2	10.0	7.6	10.6	10.6	7.0	9.3	9.9	10.7	9.4	11.0	11.8	11.5	8.3	9.4	10.6	9.6	11	10.2	10.8	7.8	9.9	9.9	7.2	8.4	
MIN	6.8	12.5	8.8	11.2	11.2	7.6	11.8	13.2	12.0	10.5	11.8	13.6	12.3	9.2	12.7	12.5	10.8	12	11.3	13.6	9.5	10.7	10.7	8.2	9.1	
DUR	4	5	5	4	4	6	5	5	4	4	3	5	3	4	7	5	4	4	3	4	5	5	5	4	3	
					(S)																		(S)			
0- 1					10.5	5.0		2.5	3.0				7.5						3.5			11.5			3.5	
1- 2		9.5							9.0		1.0					3.5	2.0	6.0			10.0				3.0	
2- 3										4.0	7.0		5.5				6.5	1.0			3.0		2.5	1.0	9.5	
3- 4						5.0			6.5										6.5	11.5				6.0	9.0	
4- 5											4.5		3.5			0.5			1.5		5.5			10.5	8.0	
5- 6					11.5				3.5						3.0			5.0					8.5		7.0	
6- 7	6.5			11.0		5.0			10.0	4.0	2.0		2.0	4.5							4.5				6.0	
7- 8	10.0								1.0		8.5		8.5				1.0		4.5		1.0				5.5	
8- 9							6.0		7.0								5.5							1.0	4.5	
9-10						4.5					6.0		6.5					4.0							5.5	3.5
10-11								1.5	4.5	4.0		3.0		5.0							6.5	6.0		10.5	3.0	
11-12									10.5		3.0								2.5						9.5	
12-13					11.5	4.5			1.5		9.5														9.0	
13-14								9.0	8.0		0.5		3.0	5.5				3.5							8.0	
14-15		9.5								4.0	7.0		9.5				4.5		5.5	8.0				0.5	7.0	
15-16	8.5					4.5			5.0				1.0						0.5		11.0		3.5	5.5	6.5	
16-17									11.0		4.5		8.0					7.5						10.0	5.5	
17-18			2.5				9.5		2.5									2.5		1.0					4.5	
18-19				11.5		4.5			8.5	4.0	2.0	8.5	6.0						3.5	10.0	6.5		10.0		3.5	
19-20											8.0														10.5	
20-21								0.5	5.5				4.0	6.5			3.5	6.5				1.0		0.5	10.0	
21-22						4.5					5.5	2.5				6.0	8.0	1.5	7.0	3.0	1.5			5.5	9.0	
22-23									3.0	4.0			2.0						1.5	11.5				10.0	8.0	
23-24	7.5							8.0	9.0		3.0		9.0									7.0			7.0	
24-25	11.0					4.0					9.5		0.5		8.5	3.0		6.0							6.5	
25-26									6.5		0.5		7.0					1.0	5.0	4.5					5.5	
26-27										3.5	7.0						2.5							0.5	4.5	
27-28		9.5				4.0			3.5				5.0	7.5			7.0							5.0	4.0	
28-29									10.0		4.0							5.0	8.0				4.5	10.0	10.5	
29-30									1.0		10.5	8.0	3.0		4.0				3.0	6.5						10.0

	YY	RW	SZ	TU	CT	AV	SW	VX	CM	SS	EW	FL	RU	RU	RW	BO	U	SX	EQ	ER	FL	U	TY	AQ	Z
	ERI	GEM	HER	HER	HER	HYA	LAC	LAC	LAC	LIB	LYR	LYR	MON	MON	MON	MON	OPH	OPH	ORI	ORI	ORI	PEG	PEG	PEG	PER
MAX	8.4	9.6	10.2	10.6	9.9	10.2	9.2	10.9	8.5	10.4	11.2	8.7	10.6	10.6	9.1	10.8	5.8	10.5	10.3	9.5	10.5	9.7	10.5	10.3	9.9
MIN	9.1	11.6	12.0	13.4	11.2	10.6	10.0	12.3	9.5	11.3	13.6	9.5	11.3	11.3	11.9	12.1	6.5	11.2	13.3	10.2	13.2	10.5	12.6	13.0	12.4
DUR	3	5	4	5	4	4	3	4	4	6	5	4	5	5	5	5	5	5	4	3	3	3	6	10	6
	(S)																								

0- 1	7.5			4.5		8.0	6.0	7.0												6.5				6.5	
1- 2	6.5						5.0	8.5				7.5				8.5				3.0	5.5			0.5	
2- 3	6.0					9.0	4.0	10.5	6.5											9.5				3.5	
3- 4	5.0		1.5				3.5													5.5				6.5	
4- 5	4.0					10.5	2.5											1.5			8.0			0.5	
5- 6	3.0						1.5																	3.5	
6- 7	10.0					11.5	0.5							11.5					7.5		4.5			6.5	
7- 8	9.5		3.5				7.5		2.0											11.0	10.5			0.5	
8- 9	8.5						6.5							9.5						7.5				3.5	
9-10	7.5						5.5													4.0				6.5	
10-11	6.5						4.5		7.0			0.5			7.0					10.5				0.5	
11-12	6.0	9.5			1.5		3.5	0.5					9.0							6.5				3.5	
12-13	5.0		1.5				3.0	2.5				5.0			5.0	11.5				3.0				6.5	
13-14	4.0						2.0	4.0											7.0	9.5				0.5	
14-15	3.5	6.0					1.0	6.0				9.0								6.0				3.5	
15-16	10.0					8.5	8.0	8.0	2.5	0.5												4.5		6.5	
16-17	9.5		3.5	1.0			7.0	9.5						9.0						8.5				0.5	
17-18	8.5					10.0	6.0	11.5												5.0				3.5	1.5
18-19	7.5						5.0		7.5											11.5	7.0			6.5	
19-20	7.0					11.0	4.0													8.0				0.5	
20-21	6.0		6.0				3.0												6.5	4.0			3.5	3.5	
21-22	5.0		1.5				2.5									9.0				10.5	9.5			6.5	
22-23	4.0						1.5													7.0				0.5	
23-24	11.0						0.5		3.0			2.0												3.5	6.0
24-25	10.0						7.5													9.5				6.0	
25-26	9.5		3.5	3.0			6.5				7.0	6.5								6.0				9.0	1.5
26-27	8.5						5.5	1.5	8.0								0.5							3.0	8.0
27-28	7.5				3.5		4.5	3.5			6.0			11.0					6.5	9.0				6.0	
28-29	7.0						3.5	5.5												5.0				9.0	
29-30	6.0		6.0				3.0	7.0			4.5		7.0		8.5					11.5			3.0	10.5	1.5

	RT	RV	ST	XZ	beta	Y	U	V505	RW	AC	AM	V	X	RV	W	TX	VV	XZ	RU	AG	BU
	PER	PER	PER	PER	PER	PSC	SGE	SGR	TAU	TAU	TAU	TRI	TRI	TRI	UMA	UMA	UMA	UMA	UMI	VIR	VUL
MAX	10.6	10.3	9.7	10.6	2.2	9.0	6.4	6.4	8.0	10.5	10.4	10.9	8.9	11.4	9.1	6.8	10.1	10.1	10.7	8.8	10.6
MIN	12.0	12.7	13.2	12.7	3.5	12.0	9.1	7.6	12.5	12.3	12.3	11.9	12.0	12.5	9.9	8.9	11.0	11.7	11.4	9.4	11.4
DUR	4	8	5	4	8	7	6	5	4	6	4	4	4	4	3	6	3	3	4	4	3

0- 1	4.5		6.0						3.0				9.5		4.5	1.5				2.0		6.5
1- 2	1.0	2.5			2.5								11.0			1.5	11.0	8.5	2.5	3.0	11.0	
2- 3												4.0	10.5	11.0	1.5		1.0	7.5	4.5			
3- 4		2.0		2.0		3.0						8.0	9.5	5.0	1.5		10.0		5.5	9.5	2.5	
4- 5	10.5			6.0					10.0				9.0		2.0		2.5		7.0			6.0
5- 6	7.0	1.5		9.5								2.0	8.5	11.0	2.0		11.5		8.0			
6- 7	3.5						1.0	1.0				3.5	6.0	7.5	5.5	2.0	4.0		9.0			
7- 8		0.5							4.5			10.0	7.0		2.0			5.0	10.5			2.5
8- 9			5.0								4.5		6.5	11.5	2.0		5.5	10.5	11.5			5.5
9-10										2.5		4.5	5.5	5.5	2.0							
10-11	9.0										5.5	8.5	5.0		2.0		7.0		1.5	11.0		
11-12	5.5			3.5						3.5			4.5		2.0				2.5			2.0
12-13	2.0			7.5							7.0	2.5	3.5	6.0	2.0		8.5		4.0			5.0
13-14				11.0					3.5		4.5		6.5	3.0	2.0		1.0	7.5	5.0			8.5
14-15											8.0	10.5	2.0		2.0		10.0		6.0			
15-16	11.5				10.5					5.5		0.5	1.5	6.5	2.0		2.5		7.5			1.5
16-17	8.0		3.5				4.5				9.0	5.0	1.0	0.5	2.0		11.0		8.5			5.0
17-18	4.5									6.5		9.0			2.0		3.5		9.5			8.0
18-19	0.5			1.5	7.5	4.5			6.5	10.0				6.5	2.0			5.0	11.0			
19-20				5.0				1.5		8.0		3.0		1.0	2.0		5.0	10.5		11.0		1.0
20-21				9.0							11.0	7.0			2.0				0.5			4.5
21-22	10.0		10.5		4.0					9.0		11.0		7.0	2.0		6.5		2.0			7.5
22-23	6.5											1.5		1.0	2.0				3.0			
23-24	3.0									10.0		5.5			2.0		8.0		4.5			0.5
24-25			2.5		1.0							9.5		7.5	2.0		0.5	7.5	5.5			4.0
25-26										11.0				1.5	2.0		9.5		6.5			7.5
26-27				3.0					4.0			3.5			2.0		2.0		8.0			
27-28	9.0			6.5								7.5		7.5	2.5		11.0		9.0			0.5
28-29	5.5			10.0										2.0	2.5		3.5		10.5	11.0		3.5
29-30	1.5		9.5							8.0		2.0			2.5	0.5		5.0	11.5			7.0

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	RT	TW	WZ	XZ	AB	XZ	OO	V342	V343	V346	RY	CX	WW	WW	ZZ	Y	SV	AL	RZ	TV	AB	U	XX	EG	SS
	AND	AND	AND	AND	AND	AQL	AQL	AQL	AQL	AQL	AQR	AQR	AUR	AUR	BOO	CAM	CAM	CAM	CAS	CAS	CAS	CEP	CEP	CEP	CET
MAX	9.3	8.8	11.6	10.0	9.3	9.3	9.2	9.0	10.6	9.0	8.8	10.7	5.7	5.7	6.8	10.6	8.6	10.5	6.4	7.3	10.2	6.7	8.5	9.6	9.4
MIN	10.2	11.0	12.6	13.0	10.2	11.2	10.1	12.5	12.3	10.4	10.1	12.0	6.4	6.4	7.6	12.4	9.4	11.3	7.8	8.4	12.2	9.8	9.6	10.6	13.0
DUR	3	11	4	3	3	7	3	7	4	4	5	3	5	5	5	10	3	5	4	4	4	4	4	3	5
															(S)	(S)									
0- 1	2.5		2.5	4.5	5.5		0.5					0.5					0.0	7.5	8.0	10.5	2.5		3.0	8.5	
1- 2	9.0				5.5		1.0		1.5			3.0				8.5	4.5				11.5			10.5	
2- 3		9.5	4.5		5.5		1.5		4.0			6.0	3.5				9.0			6.0			11.0		
3- 4	6.0				5.5		1.5							10.0											2.0
4- 5			6.5	6.5	5.5		2.0										4.0	7.0		1.5	5.0	4.5		4.0	
5- 6	3.5				5.0		2.5	0.0		4.0	0.5						8.5		2.5						6.0
6- 7	9.5		8.5		5.0		2.5					3.5							7.5						8.5
7- 8	0.5		1.5		5.0		3.0			3.0	6.0	4.5					3.0						3.0	10.5	
8- 9	7.0		10.5	8.0	5.0		3.5						11.0	12.0			7.5	6.5			7.5				
9-10			3.5		5.0		3.5				2.5						12.0					4.5	11.0	1.5	
10-11	4.0				4.5		4.0					0.5					2.0								4.0
11-12	10.5		5.5	1.0	4.5		4.0		0.5	1.5	3.5				6.5	6.5		2.0	7.5	1.0					6.0
12-13	1.5			10.0	4.5	0.5			3.0		6.0	6.0					11.0	6.0	7.0	10.0					8.0
13-14	7.5		7.5		4.5					0.5					11.5		1.5		11.5	3.0					10.0
14-15			0.0		4.5	3.5											6.0					4.0	3.5		
15-16	5.0		9.5	3.0	4.0						1.0						10.5				3.5				1.5
16-17	11.0		2.5	11.5	4.0			3.5	2.0			3.5		1.0			0.5	6.0				11.5	3.5	9.5	
17-18	2.0		11.5		4.0						6.0	7.0					5.0		1.5						5.5
18-19	8.5		4.5		4.0										11.5		9.5		6.5						8.0
19-20				4.5	4.0														11.0		6.0	3.5		10.0	8.5
20-21	5.5		6.5		3.5						1.0						4.0	5.5		9.0					
21-22	12.0				3.5						3.5		2.0		4.5	8.5							3.5	1.0	
22-23	3.0		8.5		3.5			2.0		6.5	8.5									4.5					3.5
23-24	9.0	0.0	1.5	6.5	3.5				4.5						11.0		3.5		1.0		8.5	12.0	5.5		
24-25	0.0		10.5		3.0											12.0	8.0	5.0	5.5	0.0		3.5			7.5
25-26	6.5		3.5		3.0						1.0								10.5						9.5
26-27					3.0						3.5		3.0				2.5				2.0				12.0
27-28	3.5	3.0	5.5	8.0	3.0				3.5		6.5	9.5					7.0			10.5					1.0
28-29	10.0				3.0										11.0		11.5	5.0					4.0	3.0	7.0
29-30	1.0		7.5		2.5	3.0											1.5		0.5	10.5		3.0			5.0
30-31	7.0		0.5	1.0	2.5						1.0						6.0		5.0		4.5				7.5

	R	UU	U	V	W	W	RV	Y	SW	WW	ZZ	BR	CG	V346	V387	V477	W	TT	TY	YY	FZ	Z	TW	UZ	UZ
	CMA	CMA	CRB	CRT	CRV	CRV	CRV	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	DEL	DEL	DEL	DEL	DEL	DRA	DRA	DRA	DRA
MAX	6.2	10.0	7.6	9.5	10.6	10.6	9.0	7.0	9.3	9.9	10.7	9.4	11.0	11.8	11.5	8.3	9.4	10.6	9.6	11	10.2	10.8	7.8	9.9	9.9
MIN	6.8	12.5	8.8	10.2	11.2	11.2	10.0	7.6	11.8	13.2	12.0	10.5	11.8	13.6	12.3	9.2	12.7	12.5	10.8	12	11.3	13.6	9.5	10.7	10.7
DUR	4	5	5	4	4	4	4	6	5	5	4	4	3	5	3	4	7	5	4	4	3	4	5	5	5
						(S)																			(S)
0- 1								4.0			7.0	3.5	1.5												
1- 2	6.5					11.5			2.5			11.5			1.5										11.0
2- 3	9.5				11.0						4.5			1.5		0.5		1.0	4.0		0.5	8.0	7.0		2.0
3- 4				9.0		10.0		4.0						5.5											
4- 5					9.5						1.5	3.5				6.0									
5- 6				11.5		9.0					8.0	11.5	3.0										2.5		8.5
6- 7								4.0												3.5	4.0	1.5			
7- 8											5.0		0.5									10.0			
8- 9		5.5				11.5						3.5	6.5		2.5				0.0						
9-10	5.0				10.5			3.5			2.5	11.5				1.0			5.0						
10-11	8.5	9.5		9.5		10.0			6.0		8.5		4.0			0.5				2.5	2.0	3.0			
11-12	11.5				9.0											7.5						11.5			5.5
12-13								3.5			6.0	3.5	1.5												
13-14										6.0				1.0	5.5						5.0				
14-15					11.5						3.0									1.5		5.0			
15-16						11.0		3.5			9.0		5.0		3.5				3.5						
16-17					10.0						0.5	3.5				2.0							8.0	3.0	
17-18				10.0		9.5					6.5		2.5		1.5			2.0			3.0				
18-19	7.5							3.5												1.0		6.5			
19-20	10.5										3.5		0.0										3.5	9.5	
20-21												3.5	6.5		6.5										
21-22		5.5			11.5		12.0	3.5			1.0			6.5					2.5	5.0	1.0				0.5
22-23						10.5					7.0		4.0		4.5					0.0		8.0			
23-24		9.5			10.0					4.5						3.0	4.5								
24-25				10.5			11.5	3.5			4.5	3.5	1.5	0.5	3.0						4.5				7.0
25-26			2.0										7.5							4.0		1.5			
26-27	6.0										1.5				1.0							10.0			
27-28	9.5					11.5	11.5	3.0			8.0		5.0		7.5				1.5						
28-29					11.0							3.5							6.0		2.0				
29-30											5.0		2.5		6.0					3.5		3.0		4.0	
30-31								3.0								4.0					11.5	9.0			

AAVSO Eclipsing Binary Ephemeris for December 2004

all times U.T.

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	AI	YY	YY	RW	SZ	TU	CT	AV	SW	VX	CM	T	EW	FL	RU	RU	RW	BO	EQ	ER	FL	U	TY	AQ	Z
	DRA	ERI	ERI	GEM	HER	HER	HER	HYA	LAC	LAC	LAC	LMI	LYR	LYR	MON	MON	MON	MON	ORI	ORI	ORI	PEG	PEG	PEG	PER
MAX	7.2	8.4	8.4	9.6	10.2	10.6	9.9	10.2	9.2	10.9	8.5	10.2	11.2	8.7	10.6	10.6	9.1	10.8	10.3	9.5	10.5	9.7	10.5	10.3	9.9
MIN	8.2	9.1	9.1	11.6	12.0	13.4	11.2	10.6	10.0	12.3	9.5	12.6	13.6	9.5	11.3	11.3	11.9	12.1	13.3	10.2	13.2	10.5	12.6	13.0	12.4
DUR	4	3	3	5	4	5	4	4	3	4	4	6	5	4	5	5	5	5	4	3	3	3	6	10	6
			(S)																						
0- 1		1.0	5.0		1.5			9.5	2.0									6.5		8.0		6.0			
1- 2		0.5	4.0	11.0					1.0		3.5		3.5				6.5			4.5		0.0			
2- 3	0.5	7.0	3.5					10.5	0.0											0.5	6.0	3.0		3.0	
3- 4	5.0	6.5	2.5						7.0				2.5				4.0			7.0		6.0			
4- 5	10.0	5.5	1.5	7.5	3.5			12.0	6.0		8.5					7.5		6.0	3.5		0.0				
5- 6		4.5	1.0						5.0				1.0				2.0			10.0	8.5	3.0		4.0	
6- 7		4.0	7.5			11.0			4.0					4.0	11.0					6.0		6.0	3.5		
7- 8		3.0	7.0	4.5				5.5	3.0											2.5		0.0			
8- 9	0.0	2.0	6.0						2.5											9.0	11.0	3.0		5.5	
9-10	5.0	1.5	5.0		1.5			7.0	1.5		4.0								11.5	5.5		6.0			
10-11	9.5	8.0	4.5	1.0					0.5	1.0										1.5		0.0			
11-12		7.5	3.5					8.0	7.0	2.5		4.0				11.5		9.5	5.5	8.0		3.0		7.0	
12-13		6.5	2.5						6.5	4.5	9.5									4.5		6.0			
13-14		5.5	1.5		3.5			9.0	5.5	6.5										1.0	2.5	9.0			
14-15		4.5	8.5						4.5	8.0		4.5								7.5		3.0		8.0	
15-16	5.0	4.0	8.0				0.5	10.5	3.5											3.5		6.0			
16-17	9.5	3.0	7.0						2.5										11.5	10.0	5.0	9.0			
17-18		2.0	6.0					11.5	2.0		5.0	5.0		1.0	5.0					6.5		3.0	6.0	9.5	
18-19		1.5	5.0		1.5				1.0										10.0	5.0	2.5	6.0			
19-20		8.0	4.5						7.5					5.5						9.0	7.5	9.0			
20-21		7.5	3.5			1.5			7.0		10.0	5.5					8.0	7.0		5.5		3.0		11.0	
21-22	4.5	6.5	2.5						6.0											2.0		6.0	1.5		
22-23	9.5	5.5	2.0		3.5			6.5	5.0		0.5						5.5	5.5		8.5	10.0	9.0			
23-24		5.0	8.5						4.0				6.0							11.0	4.5	3.0			
24-25		4.0	8.0	9.0				7.5	3.0	0.0					9.0		3.5			11.0		6.0	4.0		
25-26		3.0	7.0						2.0	2.0	5.5								5.0	7.5		9.0			
26-27		2.0	6.0					9.0	1.5	3.5		6.5								4.0		3.0			
27-28	4.5	9.0	5.0	6.0	1.5				0.5	5.5										10.5		6.0	6.0		
28-29	9.5	8.0	4.5					10.0	7.0	7.5	10.5									6.5		8.5			
29-30		7.5	3.5			3.0			6.5	9.0		7.0								3.0		2.5			
30-31		6.5	2.5	2.5				11.0	5.5		1.0			3.0						10.5	9.5	4.0	5.5	8.5	

	RT	RV	ST	XZ	beta	Y	U	V505	RW	AC	AM	V	X	RV	W	TX	VV	XZ	RU	AG	BU
	PER	PER	PER	PER	PER	PSC	SGE	SGR	TAU	TAU	TAU	TRI	TRI	TRI	UMA	UMA	UMA	UMA	UMI	VIR	VUL
MAX	10.6	10.3	9.7	10.6	2.2	9.0	6.4	6.4	8.0	10.5	10.4	10.9	8.9	11.4	9.1	6.8	10.1	10.1	10.7	8.8	10.6
MIN	12.0	12.7	13.2	12.7	3.5	12.0	9.1	7.6	12.5	12.3	12.3	11.9	12.0	12.5	9.9	8.9	11.0	11.7	11.4	9.4	11.4
DUR	4	8	5	4	8	7	6	5	4	6	4	4	4	4	3	6	3	3	4	4	3
0- 1												6.0		8.0	2.5		5.0	10.5	0.0	9.0	
1- 2												10.0		2.0	2.5				1.5		
2- 3	11.0		1.0					1.5	2.5			0.0			2.5		6.5		2.5	7.5	3.0
3- 4	7.5			1.0		6.0	2.5					4.0		8.5	2.5				3.5		
4- 5	4.0			4.5								8.0		2.5	2.5		8.0	2.5	5.0		
5- 6	0.5			8.0									11.0		2.5	3.5	0.5	7.5	6.0		
6- 7				11.5								2.5	10.5	9.0	2.5		9.5		7.5		3.0
7- 8			8.0			0.5						6.5	10.0	3.0	2.5		2.0		8.5	10.5	6.0
8- 9	10.0				9.0							10.5	9.0		2.5	5.0	11.0		9.5		
9-10	6.5											0.5	8.5	9.0	2.5		3.5		11.0	9.0	
10-11	2.5								10.0			4.5	8.0	3.0	2.5			5.0			2.5
11-12				2.5	6.0							9.0	7.0		2.5	6.5	5.0	10.5	0.5	7.5	5.5
12-13				6.0									6.5	9.5	2.5				2.0		
13-14				9.5					4.5			3.0	5.5	3.5	2.5		6.5		3.0		
14-15	8.5				2.5							7.0	5.0		2.5	8.0			4.5		2.0
15-16	5.0		7.0					2.0				11.0	4.5	10.0	2.5		8.0	2.5	5.5		5.5
16-17	1.5											1.0	3.5	4.0	2.5		0.5	7.5	6.5	10.5	
17-18												5.0	3.0		2.5	9.5	9.5		8.0		
18-19		11.5		0.0		7.5						9.5	2.5	10.0	2.5		2.0		9.0	9.0	1.5
19-20	11.0			3.5									1.5	4.5	2.5		11.0		10.0		5.0
20-21	7.5	11.0		7.5								3.5	1.0		3.0	11.0	3.5		11.5		
21-22	3.5			11.0					12.0		3.0	7.5	0.0	10.5	3.0			5.0	0.0		
22-23	0.0	10.0				2.0						11.5		4.5	3.0		5.0	10.5	1.0		1.0
23-24			5.5									4.0	1.5		3.0				2.5		4.5
24-25		9.5							6.5	1.5		6.0		11.0	3.0		6.5		3.5		
25-26	9.5										5.0	10.0		5.0	3.0				5.0	10.5	
26-27	6.0	9.0		1.5						2.5					3.0		8.0	2.5	6.0		0.5
27-28	2.5			5.0					0.5		6.0	4.0		11.0	3.0		0.5	7.5	7.0	9.0	4.0
28-29		8.0		9.0	11.0			2.5		3.5		8.0		5.5	3.0		9.5		8.5		7.5
29-30											7.0				3.0		2.0		9.5		
30-31	12.0	7.5					3.5		4.5			2.0		11.5	3.0		11.0		11.0		0.5