

MAS Eclipsing Binary Ephemeris for September 2015

all times in U.T.

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	RT	TW	UU	WZ	XZ	AB	AB	AD	AD	BD	BX	DS	DS	QX	QX	V376	V376	RY	CX	CZ	XZ	KO	KP
	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AQR	AQR	AQR	AQL	AQL	AQL
MAX	9.3	8.8	11.2	11.6	10.0	9.3	9.3	11.1	11.1	11.3	8.6	10.8	10.8	11.3	11.3	7.7	7.7	8.8	10.7	10.3	9.3	8.3	9.7
MIN	10.2	11.0	14.1	12.6	13.0	10.2	10.2	11.6	11.6	11.7	9.5	11.4	11.4	11.6	11.6	8.0	8.0	10.1	12.0	11.2	11.2	9.3	10.5
DUR	3	11	8	4	3	3	3	4	4	3	4	4	4	3	3	4	4	5	3	3	7	5	4
TOT		2																					

						(S)	(S)					(S)	(S)	(S)										
0- 1	12.0		10.0	10.0		8.0	4.0	6.0		9.5	0.5	7.0	7.0	2.0	11.5	3.0		10.0	10.0					
1- 2	3.0	6.0		3.0		8.0	4.0	5.5		8.0	6.0	7.5	3.0	8.0	6.5					7.0				
2- 3	9.5				4.5	8.0	4.0	5.5		6.0	11.0	7.5	8.5	3.5	2.0				2.0	3.5				
3- 4			9.5	5.0		7.5	3.5	5.0		4.0	1.5	8.0	4.5	9.0		7.5			4.5					
4- 5	6.5					7.5	3.5	4.5		2.5	7.0	8.0	10.0	5.0	11.5	3.0			7.5					
5- 6		9.0		7.0		7.5	3.5	4.5		0.5		8.5	5.5	1.0	6.5				10.0					
6- 7	4.0		8.5		6.0	7.5	3.5	4.0		10.0	3.0	8.5	1.5	6.5	2.0		9.0		11.0				2.0	
7- 8	10.0			9.0		7.5	3.5	3.5		8.0	8.0	9.0	7.0	2.5		7.5		2.0	8.0	3.5				
8- 9	1.0			2.0		7.0	3.0	3.5		6.5		9.0	3.0	8.0	11.5	3.0	8.5	4.5	4.5					
9-10	7.5		8.0	11.0		7.0	3.0	3.0		4.5	4.0	9.5	8.5	3.5	6.5				7.5	1.0	7.0			
10-11				4.0	8.0	7.0	3.0	2.5		3.0	9.5	9.5	4.5	9.5	1.5		7.5	10.0						
11-12	4.5					7.0	3.0	2.5		1.0		10.0	10.0	5.0		7.5								
12-13	11.0		7.5	6.0		7.0	3.0	2.0		10.5	5.5	10.0	6.0	1.0	11.0	2.5	6.5	2.0						
13-14	2.0				1.0	6.5	2.5	1.5		8.5	10.5	10.5	1.5	6.5	6.5				5.0	8.5				
14-15	8.0			8.0	9.5	6.5	2.5	1.5		7.0	1.5	10.5	7.5	2.5	1.5		6.0	7.5	5.5					
15-16			6.5	1.0		6.5	2.5	1.0		5.0	6.5	11.0	3.0	8.0		7.5		10.0	2.0					
16-17	5.5			10.0		6.5	2.5	0.5		3.5	12.0	11.0	9.0	4.0	11.0	2.5	5.0						4.5	
17-18	11.5			3.0	2.5	6.0	2.5			1.5	2.5	11.5	4.5	9.5	6.0				2.0					
18-19	2.5		6.0		11.5	6.0	2.0		12.0	11.0	8.0	11.5	10.5	5.5	1.5	12.0	4.5	5.0				5.0		
19-20	9.0			5.0		6.0	2.0		11.5	9.0		12.0	6.0	1.0		7.0		7.5	9.5					
20-21						6.0	2.0		11.0	7.5	3.5			2.0	7.0	11.0	2.5	3.5	10.5	6.5				
21-22	6.0		5.5	7.0	4.5	6.0	2.0		11.0	5.5	9.0			7.5	2.5	6.0				3.0		1.5		
22-23						5.5	1.5		10.5	3.5		0.5		3.5	8.5	1.0	12.0	2.5	2.5		3.0			
23-24	3.5			9.0		5.5	1.5		10.0	2.0	5.0	1.0		9.0	4.0		7.0		5.0					
24-25	9.5		5.0	2.0		5.5	1.5		10.0	11.5	10.0	1.0		5.0	9.5	10.5	2.0	2.0	7.5		6.5			
25-26	0.5			11.0	6.0	5.5	1.5		9.5	9.5	1.0	1.5		0.5	5.5	6.0			10.5	10.5				
26-27	7.0			4.0		5.5	1.5		9.0	7.5	6.0	1.5		6.0	1.5	1.0	11.5	1.0		7.5			7.0	
27-28			4.0			5.0	1.0		9.0	6.0	11.5	2.0		2.0	7.0		7.0		2.5	4.0				
28-29	4.0			6.0		5.0	1.0		8.5	4.0	2.0	2.0		7.5	3.0	10.5	2.0		5.0					
29-30	10.5				8.0	5.0	1.0		8.0	2.5	7.5	2.5		3.5	8.5	5.5			8.0					

	OO	OO	V342	V343	V346	RX	SS	SS	RY	SX	TT	WW	WW	AP	AP	AR	AR	CL	EM	EP	HP	HP	IM
	AQL	AQL	AQL	AQL	AQL	ARI	ARI	ARI	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR
MAX	9.2	9.2	9.0	10.6	9.0	9.4	10.1	10.1	11.7	8.2	8.7	5.7	5.7	10.9	10.9	6.0	6.0	11.7	11.0	10.8	10.8	10.8	7.9
MIN	10.1	10.1	12.5	12.3	10.4	9.9	11.1	11.1	14.0	9.0	9.7	6.4	6.4	11.4	11.4	6.7	6.7	13.2	11.9	11.3	11.5	11.5	8.5
DUR	3	3	7	4	4	4	3	3	6	4	5	5	5	4	4	5	5	4	4	3	3	3	4
TOT			3																				
		(S)					(S)					(S)		(S)		(S)					(S)		
0- 1	3.5						10.0	5.0		8.0					10.0					11.5		11.5	2.5
1- 2	4.0						5.5	10.0					7.0	6.5					10.0		4.5		8.5
2- 3	4.0					2.5	10.5	5.5			6.0			10.0						6.5			
3- 4	4.5		5.5			3.0	6.0	11.0							6.5			9.0	5.5	10.5		7.5	
4- 5	5.0			8.0		4.0	11.0	6.5							9.5		5.5						
5- 6	5.0					4.5	6.5	2.0	10.5	4.5				6.0						5.0	11.0		
6- 7	5.5			4.0		5.0	2.0	7.0		9.5	6.0		8.0	9.5		7.0				9.5		4.0	8.5
7- 8	6.0				2.0	6.0	7.5	2.5							6.0								
8- 9	6.0				4.5	6.5	3.0	8.0	3.5						9.5		9.0	8.5			7.0		
9-10	6.5				7.0	7.5	8.0	3.5												8.5			
10-11	7.0	1.0				8.0	3.5	8.5			6.0			9.0		10.5						10.5	
11-12	7.0	1.0				9.0	9.0	4.0		5.5			9.5										8.0
12-13	7.5	1.5				9.5	4.5	9.0		10.5					9.0		12.0		8.5	7.5			
13-14	8.0	1.5				10.0	9.5	4.5										8.0		12.0		6.5	
14-15	8.0	2.0				11.0	5.0	10.0			6.0			9.0					4.0				
15-16	8.5	2.5				11.5	10.5	5.5												6.5	10.0		
16-17	9.0	2.5				6.0	10.5	8.0				10.5			8.5					10.5			8.0
17-18		3.0		5.5	1.0		11.0	6.0		6.5													
18-19		3.5			3.5		6.5	1.5		11.5	6.0			8.5				7.5		5.0	6.5		
19-20		3.5		2.0	6.0		2.0	7.0						12.0						9.5			
20-21		4.0	4.5		8.5		7.0	2.5				5.5			8.5							9.5	
21-22		4.5					2.5	7.5					11.5		11.5				11.0				7.5
22-23		4.5					8.0	3.0			6.0			8.0						8.5			
23-24		5.0					3.5	8.5		8.0				11.5				7.0	6.5			6.0	
24-25		5.5					8.5	4.0							8.0								
25-26		5.5					4.0	9.0				6.5			11.5					7.5	9.0		
26-27		6.0					9.5	4.5			5.5			8.0						12.0			7.5
27-28		6.5					5.0	9.5	5.5					11.0									
28-29	0.5	6.5		7.5	2.5		10.0	5.0		4.0					7.5			6.5		6.5	5.5		
29-30	1.0	7.0			5.0		5.5	10.5		9.0					11.0					10.5			

	SS	SS	TU	TU	TY	TY	TZ	TZ	UW	VW	VW	ZZ	AD	AD	BW	BW	Y	SV	AL	CD	CD	R	RT
	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CAM	CAM	CAM	CAM	CAM	CMA	CMA
MAX	10.3	10.3	11.7	11.7	11.8	11.8	10.6	10.6	10.4	10.5	10.5	6.8	9.8	9.8	7.1	7.1	10.6	8.6	10.5	11.6	11.6	6.2	11.4
MIN	11.0	11.0	12.7	12.7	12.3	12.3	11.1	11.1	11.4	11.0	11.0	7.6	10.4	10.2	7.5	7.5	12.4	9.4	11.3	11.8	11.8	6.8	12.9
DUR	18	18	3	3	3	3	3	3	3	3	3	5	4	4	5	5	10	3	5	5	5	4	5
TOT	6	6																					
	(2)			(S)		(S)		(S)			(S)	(S)		(S)		(S)					(S)		
0- 1				3.5	3.0			3.5		1.5								3.0		7.0			
1- 2				3.0	1.5	5.5	4.5	0.5		2.0		1.0						7.5		1.5	10.5		
2- 3				2.0		4.0	1.5	5.5		3.0									4.0		5.0		
3- 4				1.5		3.0	6.0	2.5		3.5								2.5	12.0	8.5			
4- 5				1.0	5.5	2.0	3.5											7.0		3.0			
5- 6			4.0		4.5	0.5	1.0	4.5			0.5					4.0		11.0				6.5	
6- 7			3.5		3.5		5.5	2.0			1.5	1.0						1.5	4.0	10.0	1.0		10.5
7- 8			3.0		2.0	6.0	3.0	6.5			2.0				3.5			6.0	11.5	4.5			
8- 9			2.0		1.0	5.0		4.0			2.5							10.5				8.0	
9-10			1.5			3.5	5.0	1.5			3.5						5.5	0.5		11.5	2.0		
10-11			1.0			2.5	2.5	6.0										5.0	3.5	5.5			
11-12	2.0	5.0		4.0	5.0	1.5		3.0				0.5						9.5	11.5		9.0		
12-13				3.5	4.0		4.0	0.5		1.0											3.5	11.0	
13-14				3.0	3.0		1.5	5.0		1.5								4.5		7.0			
14-15				2.0	1.5	5.5	6.0	2.5		2.5								8.5	3.0	1.5	10.5		
15-16				1.5		4.5	3.5			3.0					4.0				11.0		5.0		12.0
16-17				1.0		3.0	1.0	4.5		3.5			1.0					3.5		8.5			
17-18			4.0		6.0	2.0	5.5	2.0						2.0	3.0			8.0		2.5	12.0		
18-19			3.5		4.5	1.0	3.0	6.5			1.0		2.5						2.5		6.0		
19-20			3.0		3.5			4.0			1.5			3.5			3.5	2.5	10.5	9.5	0.5		9.0
20-21			2.0		2.5		4.5	1.0			2.0		4.5					7.0		4.0		10.0	
21-22			1.5		1.0	5.0	2.0	5.5			3.0							11.5			7.5		
22-23			1.0			4.0	6.5	3.0			3.5						11.0	2.0	2.5	11.0	2.0		
23-24				4.0		2.5	4.0											6.0	10.0	5.5			
24-25				3.5	5.0	1.5	1.5	5.0		0.5								10.5				9.0	
25-26				3.0	4.0		6.0	2.5		1.5					4.0			1.0				3.5	
26-27				2.0	3.0		3.5			2.0								5.5	2.0	7.0			
27-28				1.5	1.5	5.5	1.0	4.5	0.5	2.5					3.0			10.0	10.0	1.0	10.5		
28-29				1.0	0.5	4.5	5.5	1.5	0.5	3.0											4.5		10.5
29-30			4.0			3.0	2.5	6.5	1.0								1.5	4.5		8.0		12.0	

	SX	TU	TZ	TZ	UU	XZ	YY	AC	AK	AM	RW	TY	RZ	TV	TW	ZZ	AB	CW	CW	DZ	GT	IR	IS
	CMA	CMA	CMA	CMA	CMA	CMI	CMI	CMI	CMI	CMI	CAP	CAP	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
MAX	10.3	9.7	9.8	9.8	10.0	9.7	8.5	11.0	10.1	10.0	9.8	10.5	6.4	7.3	8.3	10.7	10.2	11.8	11.8	11.6	11.9	10.8	11.6
MIN	11.4	10.7	10.5	10.5	12.5	10.2	9.1	11.5	11.5	10.7	10.8	11.6	7.8	8.4	8.9	11.1	12.2	12.5	12.5	12.3	12.8	12.1	12.6
DUR	4	4	4	4	5	3	4	3	4	5	5	4	4	4	5	4	4	3	3	4	5	4	5
TOT																							
				(S)																(S)			
0- 1		9.0																3.5	7.0	1.5	2.5	11.5	
1- 2		12.0			10.0			10.0									4.5	2.0	6.0			4.0	
2- 3						9.0			9.5			3.5		8.0	2.5			1.0	5.0	10.0			
3- 4													3.0			4.5		8.0	4.0	5.0	2.0	5.0	
4- 5													7.5	3.5		10.5		6.5	3.0				
5- 6	11.5										5.0						7.0	5.5	2.0			6.0	9.5
6- 7					10.0	9.0			8.5						9.5			4.5	1.0	8.5	2.0		
7- 8			9.5				11.0	11.5	11.5									3.5	7.5	3.0		7.0	5.5
8- 9								8.5										4.0	0.5	2.5	6.5		
9-10		9.5										6.5	2.5		6.0	10.0	9.5	1.5	5.5	11.5	1.5	8.0	1.5
10-11						11.5				9.0			7.0					8.0	4.5	6.5			
11-12									10.5	9.5			12.0	9.5				7.0	3.5	1.5		9.0	
12-13										10.0		2.5			2.5		3.0	6.0	2.0		1.5	1.5	
13-14						9.0				10.5				5.0		3.5	12.0	5.0	1.0	10.0		10.0	
14-15					10.0				10.0	11.0						9.0		4.0	8.0	5.0		2.5	
15-16									10.0	11.5			2.0	0.5				3.0	6.5		1.0	11.0	
16-17										11.5			6.5		9.5		5.5	2.0	5.5			3.5	10.5
17-18					10.0								11.5					1.0	4.5	8.0			
18-19	11.5	10.0					10.0									2.5		7.5	3.5	3.0	1.0	4.5	6.5
19-20									9.0			5.5			6.0	8.5		6.5	2.5				
20-21								11.5						11.0			8.0	5.5	1.5	11.5		5.5	3.0
21-22						11.5		8.5					1.5					4.5	8.0	6.5	0.5		
22-23											4.0	2.0	6.0	6.5	2.5			3.5	7.0	1.0		6.5	
23-24													10.5			2.0	1.5	2.0	6.0				
24-25						8.5			11.0					2.0		8.0	10.5	1.0	5.0	9.5		7.5	
25-26																		8.0	4.0	4.5			
26-27												8.5			9.5			7.0	3.0			8.5	
27-28		10.5			10.0			10.0					1.0				4.0	5.5	2.0			1.0	11.5
28-29				11.0		10.0			10.0				5.5			1.5		4.5	1.0	8.0		9.5	
29-30												4.5	10.0		6.0	7.5		3.5	7.5	2.5		2.0	8.0

	IT	MM	OR	OX	PV	V364	V364	V375	V380	U	SU	WW	WZ	WZ	XX	ZZ	DK	DL	DV	EG	EK	GK	SS
	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CET
MAX	11.0	11.3	11.4	10.1	10.0	11.2	11.2	10.1	10.4	6.7	8.8	11.1	11.4	11.4	8.5	9.3	12.2	12.4	11.6	9.6	8.2	6.9	9.4
MIN	11.8	11.9	12.4	10.9	10.6	11.7	11.7	10.9	11.1	9.8	9.8	11.9	12.0	12.0	9.6	10.0	14.2	13.2	12.4	10.6	9.5	7.4	13.0
DUR	5	5	4	5	3	4	4	5	5	4	4	4	3	3	4	5	4	5	4	3	6	4	5
TOT										2													
							(S)							(S)									
0- 1		1.5	4.0								11.0		5.0	10.0		7.5							
1- 2		5.0	10.0			9.5		6.5			9.0	3.5	1.0	6.0				2.5	2.5				6.0
2- 3		9.0					4.0		1.0	7.5	6.5		7.0	2.0		11.0			6.5	4.5			
3- 4				10.5	10.5				9.5		4.0		3.0	8.0	5.0				10.0	6.5			
4- 5						11.5		5.0			1.5		9.0	4.0			5.0			8.5			5.5
5- 6			3.5		4.5		6.0						5.5	10.5						11.0	7.0	11.5	
6- 7			9.5			0.5			2.5				1.5	6.5								10.0	
7- 8							4.0	11.0	7.0				7.5	2.5			11.0			2.0		8.5	4.5
8- 9		4.0		10.0			8.0						3.5	8.5					1.5	4.0		6.5	
9-10		8.0				2.5					11.5		9.5	4.5				2.0	5.5	6.5		5.0	
10-11		11.5	3.0		11.0			2.5	4.5		9.0	8.0	5.5	10.5	5.5		12.0		9.5	8.5		3.5	4.0
11-12			9.0				10.0				6.5		1.5	6.5				11.5		10.5		2.0	
12-13					5.0	4.5				7.0	4.5		7.5	2.5				11.5	8.5			0.5	
13-14				9.5				1.0			2.0		3.5	8.5		4.0	11.0			2.0			
14-15									6.0				9.5	4.5			10.5			4.0	3.5		
15-16	12.0	3.0	2.5			7.0							5.5	0.5		7.5	10.5		1.0	6.0			
16-17		6.5	8.5				1.5						2.0	7.0			10.0		5.0	8.5			
17-18		10.5			11.0			11.5		6.5			8.0	3.0	5.5	10.5	9.5	6.0	9.0	10.5			
18-19				9.0		9.0			8.0		12.0		4.0	9.0				9.0					
19-20	9.5				5.0		3.5				9.5		10.0	5.0				9.0		1.5			
20-21			2.5					10.0			7.0		6.0	1.0				8.5		4.0		11.0	
21-22			8.0			11.0			1.0		4.5		2.0	7.0				8.0		6.0		9.5	
22-23		1.5					5.5		9.5	6.0	2.5		8.0	3.0				8.0	3.5		8.0		8.0
23-24	7.0	5.5		8.5				9.0					4.0	9.0				7.5		4.5	10.0		6.0
24-25		9.5			11.0							3.5	10.0	5.0	6.0			7.0		8.0			4.5
25-26			2.0			7.5			2.5				6.0	1.0				7.0	9.5		1.5		3.0
26-27			8.0		5.0	2.0		7.5	11.0				2.0	7.0				6.5		3.5			1.5
27-28	4.5									6.0			8.0	3.0				6.0	0.5		5.5	10.5	
28-29				8.0			9.5				10.0		4.5	9.5		3.5		6.0		8.0			
29-30						4.0		6.0	4.5		7.5		10.5	5.5				5.5		10.0			

	TT	TW	TW	TX	RW	RW	RZ	RZ	SS	SS	CC	CC	U	RW	TW	Y	Y	SW	WW	ZZ	AE	BR	CG
	CET	CET	CET	CET	COM	COM	COM	COM	COM	COM	COM	COM	CRB	CRB	CRB	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG
MAX	10.8	10.4	10.4	10.9	11.0	11.0	10.0	10.0	10.9	10.9	11.0	11.0	7.6	10.1	10.5	7.0	7.0	9.3	9.9	10.7	11.8	9.4	11.0
MIN	11.3	11.2	11.2	11.5	11.6	11.6	10.7	10.7	11.5	11.5	11.9	11.9	8.8	10.6	11.3	7.6	7.6	11.8	13.2	12.0	12.8	10.5	11.8
DUR	3	3	3	4	3	3	3	3	4	4	2	2	5	4	4	6	6	5	5	4	4	4	3
TOT				1														2					
			(S)		(S)		(S)		(S)		(S)					(S)							
0- 1	8.5	11.5	7.5	6.5	1.0		1.0				1.5	2.0	2.0	4.5									10.0
1- 2	8.0	10.0	6.5			3.0	1.5		2.5			2.0			3.5		1.5			5.5		5.5	1.5
2- 3	7.0	9.0	5.0	12.0		1.5	1.5				2.0					7.0			6.5	12.0			7.5
3- 4	6.5	7.5	4.0	5.5		12.0	2.0					1.5		2.5				6.5		3.0	11.5		
4- 5	5.5	6.5	10.5		2.0		2.5				1.5				2.0		1.0			9.0	10.5		5.0
5- 6	5.0	5.5	9.0	11.0	1.0						1.5				6.0	7.0				10.0	5.0	11.5	
6- 7	4.5	4.0	8.0	4.5		2.5		1.0			1.0									6.5	9.0		2.5
7- 8	3.5	10.5	7.0			1.5				2.0		1.0			0.5		1.0				8.5		9.0
8- 9		9.5	5.5	10.0	3.0						1.0			4.5	5.0	7.0				3.5	7.5		
9-10		8.0	4.5	4.0	1.5							0.5								10.0	7.0	5.0	6.0
10-11		7.0	11.0		12.0			0.5									1.0			1.0	6.5		
11-12		6.0	9.5	9.0		2.0		1.0						2.0	3.5	7.0				7.0	5.5		3.5
12-13	12.0	4.5	8.5	3.0		1.0		1.5		1.0								10.0	5.5		5.0		10.0
13-14	11.5	11.0	7.5		2.5			1.5	1.5								1.0			4.5	4.0	5.0	1.0
14-15	10.5	10.0	6.0	8.5	1.5			2.0		2.5					2.0	6.5				10.5	3.5		7.5
15-16	10.0	8.5	5.0					2.5			2.5									1.5	2.5		
16-17	9.5	7.5	11.5			1.5						2.0		4.5			1.0			7.5	2.0		5.0
17-18	8.5	6.5	10.0	7.5		12.0					2.0				1.0	6.5					1.0	5.0	11.0
18-19	8.0	5.0	9.0		2.0			0.5				2.0			5.0					5.0			2.5
19-20	7.5	4.0	8.0		1.0					1.5	1.5			2.0			0.5			11.0			8.5
20-21	6.5	10.5	6.5	6.5		2.5		2.0				1.5				6.5				2.5			
21-22	6.0	9.0	5.5			1.5	0.5				1.5				4.0					8.5		5.0	6.0
22-23	5.5	8.0	4.0	12.0			1.0				1.0						0.5		4.5				
23-24	4.5	7.0	10.5	5.5	2.0		1.5			1.0						6.5				5.5			3.5
24-25	4.0	5.5	9.5		0.5		1.5				1.0									12.0			9.5
25-26	3.0	4.5	8.0	11.0		2.0	2.0		1.0		0.5						0.5			3.0		5.0	1.0
26-27		11.0	7.0	5.0		1.0	2.5			2.0						6.5		3.5		9.0			7.0
27-28		9.5	6.0		2.5			2.5						2.0	1.0								
28-29		8.5	4.5	10.0	1.5										5.5					6.5			4.5
29-30		7.5	11.0	4.0										6.0		6.5						5.0	11.0

	DK	KR	KV	MY	MY	V346	V387	V388	V401	V456	V466	V466	V477	V548	V704	1034	W	TT	TY	YY	FZ	Z	RZ
	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	DEL	DEL	DEL	DEL	DEL	DRA	DRA
MAX	10.3	9.2	11.5	8.3	8.3	11.8	11.5	9.7	10.8	10.8	10.8	10.8	8.3	8.9	13.8	9.6	9.4	10.6	9.6	11.0	10.2	10.8	10.0
MIN	10.8	10.0	12.6	9.0	9.0	13.6	12.3	10.3	11.6	11.9	11.6	11.6	9.2	9.7	14.6	10.6	12.7	12.5	10.8	12.0	11.3	13.6	10.9
DUR	4	4	5	4	4	5	3	3	4	3	4	4	4	5	4	4	7	5	4	4	3	4	3
TOT																	2						

	(S)											(S)													
0- 1	10.5	9.5											9.5	5.0			4.0					9.5	3.5	8.5	10.5
1- 2	9.0	5.5	9.0		10.5		7.0		4.0	7.0												5.0			
2- 3	7.5	2.0							8.0	4.5			7.5			2.5									2.0
3- 4	6.5			10.5			5.0	8.5		1.5						6.0			5.0			7.0	1.5	4.5	
4- 5	5.0		5.0				11.5	5.5	2.0			9.5				9.5			9.5	9.0	1.5	10.5	7.0		
5- 6	3.5				10.5		3.0	2.0	6.0				2.0		9.0					4.0					9.5
6- 7	2.0	7.5					10.0		10.0							2.5									11.5
7- 8	0.5	3.5	1.0	10.5		8.0	1.0				4.0		5.0	4.5	6.0			7.0			5.0	3.5	1.0		
8- 9	10.5						8.0		4.0	10.0						9.5	10.5			8.0		12.0	3.5		
9-10	9.0				11.0			9.0	8.0	7.5			6.5			10.0	9.5		4.0	3.0					6.0
10-11	7.5					1.5	6.0	5.5		5.0						2.5	9.0		3.5	8.5		8.0		8.5	
11-12	6.5	9.0		11.0				2.5	1.5	2.0	8.5					6.0	8.5					3.0	5.0	10.5	
12-13	5.0	5.5					4.0		5.5				1.0			9.5	8.0				7.0				
13-14	3.5	1.5			11.0		11.0		9.5				10.5				7.5		0.5		2.5				2.5
14-15	2.0						2.5					3.0		6.0	9.5	2.5	7.0	4.5				6.0		5.0	
15-16	0.5			11.0			9.0	9.5	3.5							6.0	6.5			3.0		1.0	7.0	7.5	
16-17	10.5						6.0	7.5	10.5		5.5			5.0	9.0	6.0			7.5	6.5					9.5
17-18	9.0	7.0			11.0		7.0	2.5		8.0						5.5				1.5	9.0				
18-19	8.0	3.5	9.5			7.0			1.5	5.5	7.5					2.5	5.0					4.0		1.5	
19-20	6.5			11.0			5.5		5.5	2.5						5.5	4.0						8.5	4.0	
20-21	5.0								9.5				9.5			9.0	3.5								6.5
21-22	3.5		5.5		11.0	1.0	3.5	9.5			2.0		7.0			3.0			2.0	0.5	7.0				8.5
22-23	2.0	9.0					10.0	6.5	3.5							2.0	2.5		6.5		2.0	2.0	11.0		
23-24	0.5	5.0		11.0			1.5	3.0	7.5				4.5	10.5	5.5	2.0				9.5		10.5			
24-25	10.5	1.5	2.0				8.5			11.0						9.0	1.5			5.0					3.0
25-26	9.0							1.5	8.5	6.5				5.5		1.0						5.0			5.5
26-27	8.0						6.5		5.5	6.0						2.0							3.5	7.5	
27-28	6.5	10.5						10.0	9.5	3.0			8.5	1.0	5.5			9.0	0.5	9.0				10.0	
28-29	5.0	7.0					4.5	6.5		0.5	1.0			8.0		9.0				5.5	4.0	8.5			
29-30	3.5	3.0				6.5	11.5	3.0	3.5		10.5								10.0			3.0			2.0

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	HS	HS	LT	V728	WY	WY	AV	DF	DF	DI	DK	SW	SW	VX	AR	AW	CM	CO	CO	DG	GX	Y	VZ
	HER	HER	HER	HER	HYA	HYA	HYA	HYA	HYA	HYA	HYA	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LEO	LEO
MAX	8.5	8.5	10.7	10.9	10.3	10.3	10.2	11.0	11.0	11.0	10.5	9.2	9.2	10.9	7.3	10.6	8.5	10.5	10.5	10.8	10.1	9.5	10.6
MIN	9.0	9.0	11.1	11.5	11.1	11.1	10.6	11.5	11.5	12.0	11.0	10.0	10.0	12.3	8.2	11.3	9.5	11.0	11.0	12.0	10.4	12.7	11.7
DUR	4	4	4	3	3	3	4	4	4	4	4	3	3	4	6	5	4	5	5	4	6	5	4
TOT															2								
		(S)				(S)			(S)				(S)						(S)				
0- 1		7.5	5.5	9.0					11.0		12.0	4.5	0.5		6.5		5.5						
1- 2	2.5			7.5		10.0			11.0			3.5	7.5			3.5		8.0					
2- 3				6.0	12.0				10.5			2.5	6.5		6.0	7.0			2.5				
3- 4				5.0					10.5			2.0	5.5			10.5	10.5			1.0			
4- 5				3.5					10.5			1.0	4.5		5.5			10.0			7.0		
5- 6		5.5		2.0					10.0			7.5	4.0				1.0		4.5	6.0			
6- 7				0.5		10.5			10.0			6.5	3.0		5.5								11.0
7- 8									9.5			6.0	2.0	1.0				12.0		11.0			
8- 9									9.5			5.0	1.0	3.0	5.0		6.0		6.5				
9-10	7.0			8.0								4.0	8.0	5.0			3.5		1.0				
10-11		3.0		6.5						12.0		3.0	7.0	6.5	4.5	7.0							
11-12			1.5	5.0		10.5	11.0					2.0	6.0	8.5		10.5	11.0		8.5			9.5	
12-13			3.5	3.5								1.5	5.0	10.0	4.0			3.0					
13-14			5.5	2.5								8.0	4.0	12.0			1.5						
14-15	5.0			1.0								7.0	3.5		3.5			10.5	1.5				
15-16		1.0			9.5							6.0	2.5					5.0					
16-17						11.0		12.0				5.5	1.5		3.5		6.5			6.5		11.0	
17-18				8.0				11.5				4.5	0.5			3.5							
18-19		7.5		7.0				11.5		11.5		3.5	7.5		3.0	7.0		7.0		11.5			10.5
19-20	2.5			5.5				11.5				2.5	6.5			10.5	11.5		1.5				
20-21				4.0	9.5			11.0				1.5	5.5		2.5								
21-22				2.5		11.5		11.0				1.0	4.5				2.0	9.0					
22-23				1.0				10.5				7.5	3.5	2.0	2.0				3.5				
23-24		5.5						10.5				6.5	3.0	4.0							8.5		
24-25	0.5		2.0				10.5	10.5				6.0	2.0	6.0	1.5		7.0	11.0					
25-26			4.0	8.5	10.0			10.0				5.0	1.0	7.5		3.5			5.5	2.5			
26-27			6.0	7.0		11.5	12.0	10.0		11.5		4.0	8.0	9.5	1.0	7.0							
27-28	7.0			5.5				10.0				3.0	7.0	11.0		10.5				7.5			
28-29		3.5		4.5				9.5				2.0	6.0		1.0				7.5				
29-30				3.0				9.5				1.0	5.0				2.5	2.0					

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	WZ	XY	XZ	AM	RR	SS	DELT	RY	UZ	EW	FL	RU	RU	RW	BB	BO	EP	U	SX	V501	V508	V839	1010	
	LEO	LEO	LEO	LEO	LEP	LIB	LIB	LYN	LYR	LYR	LYR	MON	MON	MON	MON	MON	MON	OPH	OPH	OPH	OPH	OPH	OPH	
MAX	11.3	9.5	10.6	9.2	10.2	10.4	4.8	11.9	9.8	11.2	8.7	10.6	10.6	9.1	10.6	10.8	10.5	5.8	10.5	10.9	10.1	8.8	6.2	
MIN	12.0	9.9	11.2	9.8	10.9	11.3	5.9	13.3	11.0	13.6	9.5	11.3	11.3	11.9	11.3	12.1	11.1	6.5	11.2	11.8	10.7	9.4	7.0	
DUR	5	2	3	3	4	6	7	4	5	5	4	5	5	5	4	5	5	5	5	4	3	3	4	
TOT														1										
													(S)											
0- 1		10.5			9.5													1.0			7.0	2.5		
1- 2					7.5																		4.5	
2- 3		10.0				2.5		9.0															3.5	
3- 4												9.0										1.0	4.5	
4- 5		10.0	11.5																			2.0	4.5	
5- 6			11.0	11.5			1.5				4.5						10.5	1.5				2.5	4.0	
6- 7			10.5																			3.5	5.5	
7- 8			10.0								9.0			12.0	10.5							4.5	1.5	3.5
8- 9								10.0														5.0	6.5	
9-10														10.0								6.0	2.5	3.0
10-11					11.5				7.5							8.5		2.5				7.0		
11-12					9.0									7.5									3.5	3.0
12-13					7.0		1.0	10.0	5.0															
13-14	10.0																11.5					1.0	4.5	2.5
14-15									2.5														2.0	
15-16		12.0				1.0		7.0							12.0			3.0				2.5	5.5	2.0
16-17											2.0	11.5										3.5	1.0	
17-18		11.5														9.5						4.5	6.5	1.5
18-19											6.5				10.0							7.5	5.0	2.5
19-20		11.0					0.5		9.5													6.5	6.0	1.5
20-21	11.0			11.5						10.5							8.5	4.0				6.0	6.5	3.5
21-22		11.0			11.0					8.0					8.5							5.0		1.0
22-23					9.0			11.0														4.5		4.5
23-24		10.5			7.0					7.0												3.5	1.0	0.5
24-25			11.5																1.0		2.5	2.0	5.5	
25-26		10.5	11.0			2.5		8.0	10.5	5.5								4.5			2.0	2.5	1.0	
26-27			10.5												11.5				2.5	1.0		3.5	6.5	
27-28		10.0	10.0						8.0	4.5												4.0	2.5	
28-29													11.5	11.0			9.5		4.0			5.0		
29-30		10.0							5.5	3.0	3.5				10.0							6.0	3.5	

	EF	EF	EQ	ER	ER	ET	FH	FL	FR	FT	FZ	FZ	GU	GU	U	U	TY	UX	AQ	AQ	AQ	BB	BB
	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	PEG	PEG	PEG	PEG	PEG	PEG	PEG	PEG	PEG
MAX	12.6	12.6	10.3	9.5	9.5	11.2	10.5	10.5	11.0	9.1	10.7	10.7	12.6	12.6	9.7	9.7	10.5	10.7	10.3	10.3	10.3	10.6	10.6
MIN	14.1	12.8	13.3	10.2	10.2	12.4	11.5	13.2	11.9	9.7	11.3	11.3	13.5	13.5	10.5	10.5	12.6	12.0	13.0	13.0	13.0	11.2	11.2
DUR	6	6	4	3	3	5	5	3	4	4	3	3	4	4	3	3	6	5	12	12	12	3	3
TOT																			5	5	5		
		(S)			(S)							(S)		(S)		(S)			(2)		(3)		(S)
0- 1				9.5							6.5	11.0	12.0		0.5	5.0	9.0					7.0	2.5
1- 2					10.5				11.0	6.0	11.0	6.5	10.5		3.5	8.0		11.5				9.0	4.5
2- 3	8.5				7.0				8.0		6.5	11.0	9.0		6.5	2.0						2.0	6.5
3- 4			9.0	8.5				7.5			11.0	6.5	7.5		0.5	5.0	11.0			1.0	3.5	4.0	8.5
4- 5					10.0					9.5	6.5	11.0		12.0	3.5	8.0						6.0	2.0
5- 6				11.0							11.0	6.5		10.5	6.5	2.0						8.5	4.0
6- 7		9.5		7.5				10.0			6.5	11.0		9.0	9.5	5.0		2.5				1.5	6.0
7- 8					9.0	11.5					11.0	6.5		7.5	3.5	8.0						3.5	8.0
8- 9				10.5		10.0					6.5	11.0	12.0		6.5	2.0						5.5	1.5
9-10				6.5	12.0	9.0			10.0		11.0	6.5	10.5		9.5	5.0		4.5				7.5	3.5
10-11	11.0		8.5		8.0	7.5	7.0		7.0		6.5	11.0	9.0		3.5	8.0						1.0	5.5
11-12		6.5		9.5		6.5					11.0	6.5	7.5		6.5	2.0						3.0	7.5
12-13					11.0		10.5				6.5	11.0		12.0	9.5	5.0		7.0				5.0	1.0
13-14					7.0						11.0	6.5		10.5	3.5	8.0						7.0	3.0
14-15		12.0		8.5							6.5	11.0		9.0	6.5	2.0			1.0	3.5	6.0	9.0	5.0
15-16	7.5				10.0						11.0	6.5		7.5	9.5	5.0		9.0				2.5	7.0
16-17				11.5					11.5		6.5	11.0	12.0	6.5	3.5	8.0						4.5	9.0
17-18			8.0	8.0				6.5	8.5		11.0	6.5	10.5		6.5	2.0						6.5	2.0
18-19					9.0						6.5	11.0	9.0		9.5	5.0		11.0				8.5	4.5
19-20		8.5		10.5							11.0	6.5	7.5		3.5	8.0						2.0	6.5
20-21				7.0	12.0		9.0				6.5	11.0	6.5	12.0	6.5	2.0						4.0	8.5
21-22					8.5						11.0	6.5		10.5	9.5	5.0						6.0	1.5
22-23				9.5							6.5	11.0		9.0	3.0	7.5						8.0	3.5
23-24	10.0				11.0		11.5			7.0	11.0	6.5		7.5	6.0	1.5		2.5				1.5	5.5
24-25			7.5		7.5				10.0		6.5	11.0	12.0	6.5	9.0	4.5						3.5	8.0
25-26				9.0			8.5		7.5		11.0	6.5	10.5		3.0	7.5	2.5		3.5	6.0	8.0	5.5	1.0
26-27					10.0	11.5				11.0	6.5	11.0	9.0		6.0	1.5		4.5				7.5	3.0
27-28		11.0		11.5	6.5	10.5	12.0				11.0	6.5	7.5		9.0	4.5						1.0	5.0
28-29	6.5			8.0		9.5					6.5	11.0	6.5	12.0	3.0	7.5	5.0					3.0	7.0
29-30					9.5	8.0					11.0	6.5		10.5	6.0	1.5		6.5				5.0	0.5

MAS Eclipsing Binary Ephemeris for September 2015

all times in U.T.

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	BG	BX	DI	GP	Z	RT	ST	XZ	IT	IU	KW	V432	BETA	Y	RV	UZ	UZ	AV	U	V505	1968	RS	AO
	PEG	PEG	PEG	PEG	PER	PER	PER	PER	PER	PER	PER	PER	PER	PSC	PSC	PUP	PUP	PUP	SGE	SGR	SGR	SER	SER
MAX	10.5	10.9	9.6	10.2	9.9	10.6	9.7	10.6	9.9	10.5	10.5	11.0	2.2	9.0	11.3	9.7	9.7	10.2	6.4	6.4	12.3	10.8	10.6
MIN	11.8	11.5	10.8	11.0	12.4	12.0	13.2	12.7	10.5	11.6	11.5	11.7	3.5	12.0	12.0	10.6	10.3	10.8	9.1	7.6	13.3	11.5	12.1
DUR	4	3	2	4	6	4	5	4	4	5	4	3	8	7	3	4	4	3	6	5	4	4	4
TOT	1				2		1												2				

(S)

0- 1		7.0	6.5	5.0	7.5					11.5		8.5			10.0	10.0							3.0	
1- 2		3.5		4.5					2.0	8.0		3.0		4.5										
2- 3		6.5	9.5	3.5		10.5				4.5		6.5	2.0		2.0		10.0	11.0			1.0			
3- 4		2.5	2.5	3.0	9.0	7.0				1.5		1.0			4.5					3.0	4.0	2.5		
4- 5		5.5		2.5		3.0		2.0	3.5		11.0	4.5			7.0	9.5				7.5				
5- 6		1.5	6.0	2.0				5.5			9.5	8.5			9.5								5.5	
6- 7		4.5		1.5	10.5		4.5	9.0		11.5	8.0	2.5				9.0						2.5	2.5	
7- 8	11.0	0.5	9.0	0.5					5.0	8.0	6.0	6.5			1.5		11.0				2.5			
8- 9		3.5	2.5			9.0				4.5	4.5	10.0			4.0						6.0			
9-10	10.0	6.5			11.5	5.5				1.5	3.0	4.5			6.5					1.0		2.0		
10-11		2.5	5.5			2.0			6.5		1.0	8.0			9.0					5.5				
11-12	8.5	5.5					11.5					2.5			12.0						1.5			
12-13		2.0	9.0					3.5		11.5		6.0	11.5	1.0			11.0	3.5			4.5	2.0		
13-14	7.5	5.0	2.0			11.5		7.0	8.5	8.0		9.5			3.5								3.5	
14-15		1.0				8.0	3.0	10.5		4.5		4.0			6.5								0.5	
15-16	6.5	4.0	5.0			4.5				1.5		7.5			9.0							1.5		
16-17		7.0				0.5			10.0			2.0	10.0	6.0	11.5					3.5	3.0			
17-18	5.5	3.0	8.5									5.5			1.0		11.5							
18-19		6.0	1.5							11.5	10.5	9.0			3.5							1.5		
19-20	4.0	2.0	11.5			10.0	10.0	1.0	11.5	8.0	8.5	3.5	6.5		6.0	12.0						6.0		
20-21		5.0	5.0			6.5		5.0		4.5	7.0	7.0			8.5						1.5		4.5	
21-22	3.0	1.0				3.0		8.5		1.0	5.5	1.5			11.0		11.5				4.5	1.5	1.5	
22-23		4.0	8.0				1.5				4.0	5.0	3.5				11.5	7.0	1.5		6.0			
23-24	2.0	7.0	1.0								2.0	8.5			3.0	11.5				6.0				
24-25		3.0	11.5					2.0	11.5			3.0			5.5							1.0		
25-26	0.5	6.0	4.5			9.0				8.0		6.5			8.0		11.0				3.5	6.0		
26-27		2.5				5.5				4.5		1.0			11.0									
27-28		5.5	7.5			1.5	9.0	2.5	3.5	1.0		4.5				10.5		11.5				1.0	5.0	
28-29		1.5	0.5	12.0				6.5				8.5			2.5							5.5	2.0	
29-30		4.5	11.0	11.5				10.0				2.5			5.5		10.5		1.0	4.0	2.0			

	CC	CC	Y	RW	RZ	TY	WY	AC	AM	AQ	CT	EQ	EQ	HU	V	X	RS	RV	W	W	TX	TY	TY
	SER	SER	SEX	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TRI	TRI	TRI	TRI	UMA	UMA	UMA	UMA	UMA
MAX	11.1	11.1	9.8	8.0	10.5	11.5	11.5	10.5	10.4	12.0	10.2	10.3	10.3	6.0	10.9	8.9	10.3	11.4	9.1	9.1	6.8	11.7	11.7
MIN	11.7	11.7	10.2	12.5	11.2	12.0	11.7	12.3	12.3	12.9	11.5	11.0	11.0	6.8	11.9	12.0	11.0	12.5	9.9	9.9	8.9	12.4	12.4
DUR	4	4	3	4	3	2	4	6	5	5	5	3	3	6	4	4	4	4	3	3	6	3	3
TOT				1																			
		(S)										(S)							(S)			(S)	
0- 1		1.5	11.5		11.5	8.0						5.5	9.5		9.0			4.0	7.5	3.5	3.0	0.5	5.0
1- 2		2.5			7.5	10.0	8.5				9.0	6.0	10.0						7.5	3.5		2.0	6.5
2- 3		3.0		6.0		11.5						6.5	10.5		3.5	12.0		10.5	7.5	3.5		3.5	8.0
3- 4		4.0			9.5		10.5			5.0	9.0	7.0	11.0		7.5	11.0		4.5	7.5	3.5		5.0	1.0
4- 5		5.0			5.5					10.0		7.5	3.5		11.5	10.5			7.5	3.5		7.0	2.5
5- 6					11.0						9.0	8.5	4.0		1.5	10.0		10.5	7.5	3.5		8.5	4.0
6- 7					7.0							9.0	4.5		5.5	9.0		5.0	7.5	3.5		1.5	5.5
7- 8	1.0										9.0	9.5	5.5		9.5	8.5			7.5	3.5		3.0	7.0
8- 9	1.5		11.0		9.0		7.0					10.0	6.0			8.0		11.0	7.5	3.5		4.5	8.5
9-10	2.5				5.0						7.0	9.0	6.5		4.0	7.0	10.0	5.0	7.5	3.5		6.0	1.5
10-11	3.0				11.0		9.0					11.0	7.0		8.0	6.5			7.5	3.5		7.5	3.0
11-12	4.0				7.0				6.5		9.0	3.5	7.5			6.0	8.0	11.5	7.5	3.5		9.0	4.5
12-13	4.5						10.5					4.0	8.0		2.0	5.0		5.5	8.0	4.0	9.0	2.0	6.0
13-14			11.5	7.5	9.0	6.5		6.0	7.5		9.0	4.5	9.0		6.0	4.5	5.5		8.0	4.0		3.5	8.0
14-15					4.5	8.0						5.5	9.5		10.5	3.5		11.5	8.0	4.0		5.0	1.0
15-16		1.0			10.5	10.0		7.0	8.5	9.0	9.0	6.0	10.0			3.0	3.5	6.0	8.0	4.0	10.5	6.5	2.5
16-17		1.5			6.5	12.0						6.5	10.5		4.5	2.5			8.0	4.0		8.0	4.0
17-18		2.5					7.0	8.0	9.5		9.0	7.0	11.0		8.5	1.5	1.5		8.0	4.0		1.0	5.5
18-19		3.0			8.5							7.5	3.5					6.0	8.0	4.0		2.5	7.0
19-20		4.0			4.5		9.0	9.5	11.0		9.0	8.0	4.0	5.0	2.5				8.0	4.0		4.0	8.5
20-21		4.5			10.5					5.5		8.5	4.5		6.5				8.0	4.0		5.5	1.5
21-22			11.0		6.5		11.0	10.5	12.0	10.5	9.0	9.5	5.0	6.5	11.0			6.5	8.0	4.0		7.0	3.0
22-23												10.0	6.0		1.0				8.0	4.0		8.5	4.5
23-24	1.0				8.0			11.5			9.0	10.5	6.5	7.5	5.0				8.0	4.0		2.0	6.0
24-25	1.5			9.5			5.5					11.0	7.0		9.0				7.0	8.0	4.0	3.5	7.5
25-26	2.5				10.0						9.0	3.5	7.5	9.0				1.0	8.0	4.0		5.0	0.5
26-27	3.0				6.0		7.0			7.5		4.0	8.0		3.0				8.0	4.0		6.5	2.0
27-28	4.0			4.0	12.0	6.5					9.0	4.5	8.5	10.5	7.5			7.0	8.0	4.0		8.0	3.5
28-29	4.5				8.0	8.5	9.0					5.0	9.0		11.5			1.5	8.0	4.0		1.0	5.0
29-30						10.0					9.0	5.5	10.0	11.5	1.5				8.0	4.0		2.5	6.5

	UX	UX	VV	XZ	ZZ	AF	W	RU	VV	AG	AH	AH	AK	AW	AW	AX	AZ	AZ	BH	MS	MS	NY	Z
	UMA	UMA	UMA	UMA	UMA	UMA	UMI	UMI	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VUL
MAX	12.7	12.7	10.1	10.1	9.8	10.8	8.6	10.7	11.7	8.8	9.7	9.7	10.0	10.8	10.8	10.0	11.0	11.0	9.9	9.4	9.4	13.3	7.4
MIN	13.8	13.8	11.0	11.7	11.2	11.6	9.7	11.4	13.5	9.4	10.2	10.2	11.5	11.9	11.9	10.8	11.8	11.8	11.3	9.7	9.7	14.2	9.2
DUR	1	1	3	3	4	8	7	4	4	4	4	4	4	3	3	4	3	3	4	3	3	1	6
TOT																							
											(S)			(S)			(S)			(S)			
0- 1	0.5	5.5		11.0			11.5	10.5	2.0						1.0			2.0		2.0			
1- 2	5.0	9.5	5.0		10.0				12.0														
2- 3	9.5	4.5					4.5												1.0				
3- 4	4.0	9.0	6.5			7.0		1.5				2.0	1.5				1.5				1.0	0.5	1.0
4- 5	8.5	4.0						3.0	2.0								2.5					1.0	
5- 6	3.5	8.0	8.0	8.5				4.0												1.5			1.0
6- 7	7.5	3.0			0.5			5.0			0.5				1.5	1.5		1.0					1.5
7- 8	2.5	7.5	9.5				7.0	6.5				1.0						2.0					1.5
8- 9	7.0	2.0	2.0		7.5			7.5		1.0	1.5										1.0	2.0	2.0
9-10	2.0	6.5	11.0					9.0					1.0	1.5									2.0
10-11	6.0	1.5	3.5					10.0										1.5			1.5		
11-12	1.0	5.5		11.0				11.0										2.5		0.5			
12-13	5.5	0.5	5.0				9.0								2.0								
13-14	9.5	5.0						1.0									2.5		0.5		1.0	0.5	
14-15	4.5	9.0	6.5				2.0	2.0					0.5					2.0					1.0
15-16	9.0	4.0			5.5			3.5						2.0					2.5	1.5		1.0	8.0
16-17	3.5	8.5	8.0	8.5				4.5															1.5
17-18	8.0	3.5					11.5	6.0	0.5	1.0	0.5				1.0		1.0						1.5
18-19	3.0	7.5	9.5					7.0				1.0					2.5	2.5			1.0	2.0	
19-20	7.0	2.5	2.0			1.5	4.5	8.0			1.5												2.0
20-21	2.0	7.0	11.0					9.5						1.0							1.5		5.5
21-22	6.5	1.5	3.5					10.5	1.0										1.5				
22-23	1.5	6.0		11.0	3.0			11.5															
23-24	5.5	1.0	5.0												1.5							1.0	0.5
24-25	0.5	5.5			10.0	7.5	7.0	1.5									1.0		2.0				1.0
25-26	5.0	9.5	6.5					2.5	1.5							1.0	2.0			1.5		1.0	3.5
26-27	9.0	4.5						4.0		1.0				1.5									1.5
27-28	4.0	9.0	8.0	8.5				5.0															1.5
28-29	8.5	3.5						6.5			0.5							1.5			1.0	2.0	
29-30	3.5	8.0	9.5				9.5	7.5	2.0			1.0			1.5			2.5					2.0

	AW	AX	AY	BE	BO	BS	BT	BU	CD	ER
	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL
MAX	10.8	11.0	11.0	9.9	10.4	11.0	11.8	10.6	11.5	7.3
MIN	11.9	12.5	12.9	11.4	13.3	11.5	12.5	11.4	12.6	7.5
DUR	5	5	4	5	4	3	3	3	4	4
TOT										

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