

MAS Eclipsing Binary Ephemeris for April 2015

all times in U.T.

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	RT	TW	WZ	XZ	AB	AB	AD	AD	BD	BX	DS	QX	QX	V376	V376	CX	CZ	XZ	KO	KP	OO	OO	V342
	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AQR	AQR	AQL	AQL	AQL	AQL	AQL	AQL
MAX	9.3	8.8	11.6	10.0	9.3	9.3	11.1	11.1	11.3	8.6	10.8	11.3	11.3	7.7	7.7	10.7	10.3	9.3	8.3	9.7	9.2	9.2	9.0
MIN	10.2	11.0	12.6	13.0	10.2	10.2	11.6	11.6	11.7	9.5	11.4	11.6	11.6	8.0	8.0	12.0	11.2	11.2	9.3	10.5	10.1	10.1	12.5
DUR	3	11	4	3	3	3	4	4	3	4	4	3	3	4	4	3	3	7	5	4	3	3	7
TOT		2																					3
					(S)		(S)					(S)		(S)							(S)		
0- 1	1.0			11.0	8.0		9.5							3.5							8.5	6.0	
1- 2	7.0		2.0		8.0		9.0		2.5	2.5						9.0						9.0	
2- 3			11.0		8.0	12.0	8.5					10.5				4.0			5.5			9.0	
3- 4	4.5				7.5	11.5	8.5		10.0			1.5										9.5	
4- 5	10.5					11.5	8.0		8.0	3.5		2.0		3.0		10.0						9.5	
5- 6	2.0					11.5	7.5		6.5				3.0			9.0						10.0	
6- 7	8.0					11.5	7.5									4.0						10.5	
7- 8						11.0	7.0															10.5	
8- 9	5.0					11.0	6.5		1.0	10.0				3.0			11.5					11.0	
9-10	11.5		10.0			11.0	6.5		10.5			10.5				10.0						11.5	
10-11	2.5					11.0			8.5				1.5		4.0			10.0				11.5	10.0
11-12	8.5					11.0			7.0	11.5		2.5											
12-13						10.5			5.0	2.0			3.0	3.0								6.5	
13-14	6.0					10.5																6.5	
14-15						10.5			1.5						4.0	10.0			7.0	7.0			
15-16	3.5					10.5			11.0	3.5												7.0	
16-17	9.5					10.5			9.0			1.0		2.5								7.5	
17-18			2.0			10.0			7.5				1.5									8.0	
18-19	6.5		11.0	2.5		10.0			5.5			2.5			3.5							8.0	
19-20				11.0		10.0							3.0		10.0			10.0				8.5	
20-21	4.0					10.0	2.5		2.0					2.5								9.0	
21-22	10.0					10.0	2.5		11.5													9.0	
22-23	1.5					9.5	2.0		9.5	11.0	10.5		10.5		3.5				6.5			9.5	
23-24	7.5					9.5	1.5		7.5	1.5	10.5	1.0										10.0	
24-25						9.5	1.5		6.0		11.0		2.0	2.5	10.0				9.5			10.0	
25-26	5.0		10.0			9.5	1.0				11.0	2.5						9.0				10.5	
26-27	11.0	11.0				9.5			2.5	3.0	11.5				3.5							11.0	
27-28	2.0					9.0			11.5		11.5											11.0	9.0
28-29	8.0					9.0			10.0					2.0								11.5	
29-30						9.0		11.5	8.0				10.5		10.5								



	TU	TY	TY	TZ	TZ	UW	VW	VW	ZZ	AD	AD	BW	BW	Y	SV	AL	CD	CD	R	RT	SX	TU	TZ
	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CAM	CAM	CAM	CAM	CAM	CMA	CMA	CMA	CMA	CMA
MAX	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	10.3	9.7	9.8
MIN	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	11.4	10.7	10.5
DUR	3	3	3	3	3	3	3	3	5	4	4	5	5	10	3	5	5	5	4	5	4	4	4
TOT	(S)		(S)		(S)			(S)	(S)		(S)		(S)				(S)						
0- 1	2.0	6.0	2.0	6.0	2.5	4.5	1.0	5.5			10.5	4.0		6.0	3.0		11.0	2.0					
1- 2	1.5	5.0	1.0	3.5	7.0	4.5	2.0	6.0		11.5					7.5	2.0	5.5					3.0	
2- 3	8.5	3.5	7.5	8.0	4.5	4.5	2.5	6.5							12.0	10.0		9.0					
3- 4	8.0	2.5	6.5	5.5	2.0	4.5	3.0	7.5							2.0			3.5					
4- 5	7.0	1.5	5.0	2.5	6.5	5.0	4.0	8.0	7.0						6.5		7.0		3.5		4.5		
5- 6	6.5	8.0	4.0	7.0	3.5	5.0	4.5	8.5							11.0	1.5	1.0	10.5					
6- 7	6.0	6.5	3.0	4.5	1.0	5.0	5.0	1.0							1.0	9.5		4.5					
7- 8	5.0	5.5	1.5	2.0	5.5	5.0	5.5	1.5							5.5		8.0						
8- 9	4.5	4.5	8.0	6.5	3.0	5.5	6.5	2.5				4.5		10.0			2.5	11.5		1.5			
9-10	4.0	3.0	7.0	4.0	7.5	5.5	7.0	3.0	7.0								1.5	6.0			1.5		
10-11	3.5	2.0	6.0	1.5	5.0	5.5	7.5	3.5			4.0		4.0	5.0	9.0	9.5						3.5	
11-12	2.5	8.5	4.5	6.0	2.5	5.5	8.5	4.0							9.5		4.0						
12-13	2.0	7.0	3.5	3.5	7.0	5.5	9.0	5.0										7.5	2.5				
13-14	1.5	6.0	2.5	8.0	4.5	6.0	1.5	5.5					11.5	4.0	1.0	11.0	1.5						
14-15	8.5	5.0	1.0	5.0	1.5	6.0	2.0	6.0	6.5						8.5	9.0	5.5						
15-16	8.0	3.5	7.5	2.5	6.0	6.0	2.5	7.0										9.0				3.0	
16-17	7.0	2.5	6.5	7.0	3.5	6.0	3.5	7.5							3.0			3.0					
17-18	6.5	1.5	5.0	4.5	1.0	6.5	4.0	8.0							7.5		6.5		3.0	4.0			
18-19	6.0	8.0	4.0	2.0	5.5	6.5	4.5	8.5				4.5				8.5	1.0	10.0					
19-20	5.0	6.5	3.0	6.5	3.0	6.5	5.5	1.0	6.5		1.5				2.5			4.5				4.0	
20-21	4.5	5.5	1.5	4.0	7.5	6.5	6.0	2.0		2.0		4.0		2.0	7.0		8.0		1.5				
21-22	4.0	4.5	8.0	1.0	5.0	6.5	6.5	2.5							11.0		2.5	11.5	4.5				
22-23	3.0	3.0	7.0	6.0	2.0	7.0	7.0	3.0		4.0					1.5	8.0		6.0			1.0		
23-24	2.5	2.0	6.0	3.0	6.5	7.0	8.0	4.0						9.5	6.0		9.5						
24-25	2.0	8.5	4.5	7.5	4.0	7.0	8.5	4.5	6.0	5.5					10.5		3.5						
25-26	1.5	7.5	3.5	5.0	1.5	7.0	1.0	5.0										7.0					
26-27	8.5	6.0	2.5	2.5	6.0	7.5	1.5	5.5		7.0					5.0	8.0	10.5	1.5					
27-28	7.5	5.0	1.0	7.0	3.5	7.5	2.0	6.5							9.5		5.0					1.5	
28-29	7.0	4.0	7.5	4.5	8.0	7.5	3.0	7.0		9.0			4.5					8.5					
29-30	6.5	2.5	6.5	2.0	5.5	7.5	3.5	7.5	6.0		9.5				4.5			3.0	3.5				

	TZ	UU	XZ	YY	AC	AK	AM	TY	RZ	TV	TW	ZZ	AB	CW	CW	DZ	IR	IS	IT	MM	OR	OX	PV
	CMA	CMA	CMI	CMI	CMI	CMI	CMI	CAP	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
MAX	9.8	10.0	9.7	8.5	11.0	10.1	10.0	10.5	6.4	7.3	8.3	10.7	10.2	11.8	11.8	11.6	10.8	11.6	11.0	11.3	11.4	10.1	10.0
MIN	10.5	12.5	10.2	9.1	11.5	11.5	10.7	11.6	7.8	8.4	8.9	11.1	12.2	12.5	12.5	12.3	12.1	12.6	11.8	11.9	12.4	10.9	10.6
DUR	4	5	3	4	3	4	5	4	4	4	5	4	4	3	3	4	4	5	5	5	4	5	3
TOT	(S)								(S)						(S)								
0- 1			6.0		1.0									2.0	6.0		8.0			3.5			
1- 2							10.0			6.5			2.5	1.0	5.0					7.0	4.5		
2- 3											7.0		11.5	7.5	3.5	9.0	9.0			11.0	10.5	2.5	9.5
3- 4			3.5			4.0			3.0	2.0		5.5		6.5	2.5	4.0	1.5						
4- 5									8.0			11.5		5.5	1.5		10.0						3.5
5- 6				3.0	6.0						3.5		5.0	4.5	8.5		2.5						
6- 7				5.0	2.5									3.5	7.0	7.0	11.0				4.0		
7- 8		2.5	4.5				3.0							2.5	6.0	2.0	3.5	9.0		2.0	10.0	2.0	
8- 9							6.0					5.0		1.5	5.0					6.0			
9-10									2.5		10.0	11.0	7.5	8.0	4.0	10.5	4.5	5.5		10.0			10.0
10-11			2.0						7.5	8.0				7.0	3.0	5.5							
11-12			6.0			2.0		9.0						6.0	2.0		5.5	1.5			3.5		4.0
12-13					4.5	5.5				3.5	6.5		1.0	5.0	1.0						9.5	1.5	
13-14					1.0		1.0					4.5	10.0	4.0	7.5	8.5	6.5						
14-15			3.5				1.5					10.5		2.5	6.5	3.5					1.0		
15-16						1.0	2.0		2.0		3.5			1.5	5.5		7.5			5.0			
16-17				1.5		4.5	2.5		7.0				3.5	8.5	4.5					8.5	3.5		10.0
17-18	2.0			3.5			3.0		11.5					7.0	3.5	7.0	8.5				9.0		
18-19			4.5	6.0	6.0		3.5					4.0		6.0	2.5	1.5		10.5					4.0
19-20					3.0		4.0			9.5	10.0	9.5		5.0	1.5		9.5						
20-21		2.5				3.5	4.0						6.0	4.0	8.0	10.0	1.5	6.5	10.0				
21-22			2.0			6.5	4.5	8.5	1.5	5.0				3.0	7.0	5.0	10.5					3.0	
22-23			6.0				5.0		6.0		6.5			2.0	6.0		2.5	3.0		3.5	8.5		
23-24							5.5		11.0			3.0		1.0	5.0		11.5			7.5			10.0
24-25						2.5	6.0					9.0	8.0	7.5	4.0	8.5	3.5		7.5	11.0			
25-26			3.5		4.5	5.5	6.5				3.0			6.5	2.5	3.0							4.0
26-27					1.5									5.5	1.5		4.5				2.5		
27-28									1.0				2.0	4.5	8.5	11.5					8.5		
28-29				2.0		1.5		11.0	5.5	11.0		2.5	10.5	3.5	7.0	6.5	6.0		5.0				
29-30			4.5	4.5		5.0			10.5		10.0	8.5		2.5	6.0	1.5		11.5		2.5		11.5	

	V364	V364	V375	V380	U	SU	WW	WZ	WZ	XX	ZZ	DK	DL	DV	EG	EK	GK	RW	RW	RZ	RZ	SS	SS
	CAS	CAS	CAS	CAS	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	COM	COM	COM	COM	COM	COM
MAX	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	11.0	11.0	10.0	10.0	10.9	10.9
MIN	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	11.6	11.6	10.7	10.7	11.5	11.5
DUR	4	4	5	5	4	4	4	3	3	4	5	4	5	4	3	6	4	3	3	3	3	4	4
TOT					2																		
		(S)																		(S)	(S)		(S)
0- 1	2.0			7.5		5.5		10.5	5.5								6.0	5.0	2.0	9.0	5.0	3.0	7.5
1- 2						3.0		6.5	1.5		6.0				1.5		4.5	3.5	6.5	1.0	5.0	8.5	3.5
2- 3		9.5					7.5	2.5	7.5			7.5			3.5		3.0	2.5	5.0	1.5	5.5	4.5	9.0
3- 4	4.0				5.5			8.5	3.5		9.5			1.0	5.5	8.0	1.5	1.0	4.0	2.0	6.0	10.0	5.0
4- 5				9.0				4.5	9.5	7.0				5.0	8.0			5.5	2.5	2.5	6.5	6.0	11.0
5- 6		11.5	10.5					10.5	5.5					9.0	10.0			4.5	1.5	2.5	6.5	1.5	6.5
6- 7								6.5	1.5									3.0	6.0	3.0	7.0	7.5	2.5
7- 8				2.5		10.5		2.5	7.5			4.5			1.0			2.0	5.0	3.5	7.5	3.0	8.0
8- 9			9.5	11.0	5.5	8.0		8.5	3.5						3.5			6.5	3.5	4.0	8.0	9.0	4.0
9-10	8.5					6.0		4.5	9.5						5.5			5.0	2.5	4.0	8.0	4.5	9.5
10-11		3.0				3.5		10.5	5.5				11.0		7.5			4.0	1.0	4.5	8.5	10.5	5.5
11-12			8.0	4.0		1.0		7.0	2.0	7.0				4.5	9.5			3.0	5.5	5.0	9.0	6.5	1.5
12-13	10.5							3.0	8.0				2.0	8.0		4.5	10.5	1.5	4.5	5.5	1.0	2.0	7.0
13-14					5.0			9.0	4.0						1.0		9.0	6.0	3.0	5.5	1.5	8.0	3.0
14-15			7.0					5.0	10.0		2.5				3.0		7.5	5.0	2.0	6.0	2.0	3.5	8.5
15-16				5.5				1.0	6.0			8.5			5.0		5.5	3.5	6.5	6.5	2.5	9.5	4.5
16-17						11.0	3.0	7.0	2.0		5.5				7.5		4.0	2.5	5.5	7.0	2.5	5.0	10.0
17-18	1.5		5.5			8.5		3.0	8.0						9.5		2.5	1.0	4.0	7.0	3.0	1.0	6.0
18-19					4.5	6.0		9.0	4.0	7.5	9.0			3.5	11.5		1.0	5.5	3.0	7.5	3.5	6.5	1.5
19-20		9.0		7.5		3.5		5.0	10.0					7.5				4.5	1.5	8.0	4.0	2.5	7.5
20-21	3.5		4.5			1.5		1.0	6.0			6.0	11.5	3.0				3.5	6.0	8.5	4.0	8.0	3.5
21-22								7.0	2.0						5.0			2.0	5.0	8.5	4.5	4.0	9.0
22-23		11.0						3.5	8.5						7.0			6.5	3.5	9.0	5.0	10.0	5.0
23-24			3.0	9.0	4.5			9.5	4.5						9.5			5.5	2.5	1.0	5.5	5.5	10.5
24-25								5.5	10.5			11.5			11.5			4.0	1.0	1.5	5.5	1.5	6.5
25-26						11.0	7.5	1.5	6.5	7.5		11.5	3.0	3.0		11.0		3.0	5.5	2.0	6.0	7.0	2.0
26-27	7.5		2.0	2.5		9.0		7.5	2.5					7.0	2.5		11.5	1.5	4.5	2.5	6.5	3.0	8.0
27-28		2.0		11.0		6.5		3.5	8.5			10.5		10.5	5.0		10.0	6.0	3.5	2.5	7.0	8.5	3.5
28-29					4.0	4.0		9.5	4.5			10.5	9.5		7.0		8.5	5.0	2.0	3.0	7.0	4.5	9.5
29-30	9.5					1.5		5.5	10.5		2.0	10.0			9.0		7.0	3.5	6.5	3.5	7.5	10.0	5.0



	V346	V387	V388	V401	V456	V466	V466	V477	V548	V704	1034	W	TT	TY	YY	FZ	Z	RZ	TW	UZ	UZ	AI	BH
	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	DEL	DEL	DEL	DEL	DEL	DRA	DRA	DRA	DRA	DRA	DRA	DRA
MAX	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	7.8	9.9	9.9	7.2	8.0
MIN	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	9.5	10.7	10.7	8.2	8.6
DUR	5	3	3	4	3	4	4	4	5	4	4	7	5	4	4	3	4	3	5	5	5	4	5
TOT												2							1				
								(S)														(S)	
0- 1				8.0						11.0	5.5				8.0	10.0		7.0		3.5		12.0	
1- 2	5.0			12.0					7.5		5.0			8.5			7.5	9.5					1.5
2- 3		11.0					5.5						9.0					12.0					
3- 4			11.0	5.5					3.0	7.5								1.0		10.0			
4- 5		9.0	7.5	9.5		7.5				11.0				7.5	8.0			3.5	11.0			2.0	
5- 6					11.0			7.5									9.5	6.0			1.0	7.0	
6- 7		7.5			8.5		10.0											8.5				11.5	
7- 8				7.5	5.5					7.5				7.5	11.5	11.5		10.5	6.5				
8- 9				11.5						10.5							2.5				7.5		8.0
9-10	10.5		11.5														11.0	2.5					
10-11			8.0	5.5					8.5									5.0	1.5			2.0	3.5
11-12		10.5		9.5		6.5				7.0					10.5	9.5		7.5				6.5	
12-13								8.5	3.5	10.5							4.5	9.5				11.5	
13-14		8.5			11.5		8.5					9.5								4.5			
14-15				7.5	9.0									11.0				1.5					
15-16		6.5	11.5	11.5	6.0	11.0				7.0					10.0			4.0					
16-17			8.0							10.5							6.0	6.5		11.0		2.0	
17-18				5.5														8.5				6.5	10.0
18-19		11.5		9.5		5.5										10.5		11.0	11.5		2.0	11.5	
19-20								9.5	9.0	7.0					9.0								5.5
20-21	10.0	9.5					7.5			10.5							8.0	3.0					
21-22				7.5						4.5								5.5	7.0		8.5		1.0
22-23		7.5	8.5	11.0	9.5	10.0							11.0			8.5		7.5					1.5
23-24					6.5					7.0					8.0		1.0	10.0					6.5
24-25		6.0		5.0						10.0							9.5		2.5				11.0
25-26				9.0									8.0			11.5		2.0					
26-27								10.0						9.0				4.5		6.0			
27-28		10.5					6.5			6.5					7.5		2.5	6.5					
28-29			9.0	7.0					9.5	10.0							11.5	9.0				1.5	7.5
29-30		9.0		11.0		9.0										9.5		11.5					6.5









	EF	EF	ER	ER	ET	FH	FL	FR	FT	FZ	FZ	GU	GU	U	U	TY	UX	AQ	AQ	AQ	BB	BB	BX
	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	PEG	PEG	PEG	PEG	PEG	PEG	PEG	PEG	PEG	PEG
MAX	12.6	12.6	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	10.9
MIN	14.1	12.8	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	11.5
DUR	6	6	3	3	5	5	3	4	4	3	3	4	4	3	3	6	5	12	12	12	3	3	3
TOT																		5	5	5			
		(S)		(S)						(S)		(S)		(S)			(2)		(3)		(S)		
0- 1			2.5							1.5		1.5		12.0							9.0		11.5
1- 2											1.5		5.5		10.0						11.0		7.5
2- 3										1.5			4.0									8.5	10.5
3- 4	3.0		2.0								1.5		2.5	11.5							10.5		
4- 5				3.5		2.5					1.5		1.5	5.5		1.5	10.0						9.5
5- 6								5.0				1.5	5.5								10.5		
6- 7			1.0					2.0	4.5	1.5		4.0		11.5					8.0				8.5
7- 8		4.0		2.5						1.5		1.5	2.5		10.0						10.0		11.5
8- 9										1.5		1.5											7.5
9-10											1.5		5.5	11.5							10.0		10.5
10-11				1.5						1.5			4.0	10.0									
11-12	5.5		3.0								1.5		2.5									9.5	10.0
12-13					3.0		2.0			1.5		1.5	1.5	11.5			9.0					11.5	
13-14					2.0			3.5			1.5	5.5		10.0							9.0		9.0
14-15			2.0							1.5		4.0									11.0		
15-16				3.5							1.5	3.0		11.5		11.0						9.0	8.0
16-17	2.0									1.5		1.5		10.0								11.0	11.0
17-18			1.0								1.5		5.5				8.0	10.5		8.5			7.0
18-19				2.5						1.5			4.0	11.5							10.5		10.0
19-20						4.0					1.5		3.0	10.0									
20-21		3.0								1.5			1.5		10.0							10.5	9.0
21-22				2.0				2.5			1.5	5.5		11.5									
22-23			3.0							1.5		4.0									10.0		8.0
23-24										1.5		3.0											11.0
24-25	4.5									1.5		1.5		11.5								10.0	7.5
25-26			2.5					2.0		1.5		1.5	5.5										10.5
26-27							1.0			1.5			4.0								9.5		
27-28										1.5			3.0	11.5							11.5		9.5
28-29		5.5	1.5					4.0	5.5	1.5			1.5				8.0	10.0				9.0	
29-30				3.0			3.5	1.0			1.5	5.5					8.5					11.5	8.5

	DI	GP	RT	ST	XZ	IT	IU	KW	V432	BETA	RV	UZ	UZ	AV	U	V505	1968	RS	AO	CC	CC	Y	RW
	PEG	PEG	PER	PER	PER	PER	PER	PER	PER	PER	PSC	PUP	PUP	PUP	SGE	SGR	SGR	SER	SER	SER	SER	SEX	TAU
MAX	9.6	10.2	10.6	9.7	10.6	9.9	10.5	10.5	11.0	2.2	11.3	9.7	9.7	10.2	6.4	6.4	12.3	10.8	10.6	11.1	11.1	9.8	8.0
MIN	10.8	11.0	12.0	13.2	12.7	10.5	11.6	11.5	11.7	3.5	12.0	10.6	10.3	10.8	9.1	7.6	13.3	11.5	12.1	11.7	11.7	10.2	12.5
DUR	2	4	4	5	4	4	5	4	3	8	3	4	4	3	6	5	4	4	4	4	4	3	4
TOT				1											2								1
													(S)								(S)		
0- 1							2.0	2.0	1.0					5.5								8.0	5.5
1- 2									4.5		1.5		5.0				6.5			2.5	8.5	2.0	
2- 3																8.5	9.5	9.5			3.0	9.5	8.0
3- 4									2.5	2.5		4.5							11.0	4.0	10.0	4.5	
4- 5			6.0											3.0					8.0	4.5	11.0		
5- 6			2.0		1.5								4.5	5.5				9.0	5.5	5.5	11.5	6.5	
6- 7					5.0		2.0		4.0		1.0				6.0		8.5		2.5	6.0		3.0	
7- 8												4.0					11.5				7.0		
8- 9			11.5					11.0	2.0									9.0		7.5		5.0	
9-10	11.5							9.5					4.0	3.0	11.0					8.5	2.5	1.5	
10-11			4.5					8.0			11.5			6.0			7.0			9.5	3.0	7.5	
11-12						10.5		6.0	4.0			3.5					10.0	8.5	9.0	10.0	4.0	3.5	
12-13							2.0	4.5											6.0	11.0	4.5		
13-14					3.0			3.0	2.0				3.0						3.5	11.5	5.5	6.0	
14-15	11.0				6.5			1.0						3.5				8.5			6.0	2.0	
15-16											11.0	3.0		6.0		9.0	8.5				7.0	8.5	
16-17			3.0	4.0		1.0			3.5						9.5		11.5				7.5	4.5	
17-18													2.5					8.0		2.5	8.5		
18-19							2.0		1.5										10.0	3.0	9.0	7.0	
19-20	10.5						2.5		5.0			2.0		3.5			7.0		7.0	4.0	10.0	3.0	
20-21											11.0			6.5			10.5	8.0	4.0	4.5	11.0		
21-22			5.5	11.0	4.5				3.0				2.0							5.5	11.5	5.5	
22-23		11.5	2.0			4.0		10.5								11.5				6.0		1.5	
23-24		10.5						8.5	1.0	4.0		1.5		1.0				8.0		7.0		8.0	
24-25	10.5	10.0		3.0			1.5	7.0	4.5					3.5			9.0			7.5		4.0	
25-26		9.5	11.5					5.5			10.5		1.5						10.5	8.5	2.0		2.5
26-27		9.0						3.5	2.5	1.0								7.5	8.0	9.0	3.0	6.5	
27-28		8.5	4.0					2.0				1.0								5.0	10.0	4.0	2.5
28-29					2.5								5.5	1.0		9.5	7.5		2.0	10.5	4.5	9.0	
29-30	10.0				6.0				4.0					4.0			10.5	7.5		11.5	5.5	5.0	

	RZ	TY	WY	AC	AM	AQ	EQ	EQ	HU	V	X	RS	RV	W	W	TX	TY	TY	UX	UX	VV	XZ	ZZ
	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TRI	TRI	TRI	TRI	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA
MAX	10.5	11.5	11.5	10.5	10.4	12.0	10.3	10.3	6.0	10.9	8.9	10.3	11.4	9.1	9.1	6.8	11.7	11.7	12.7	12.7	10.1	10.1	9.8
MIN	11.2	12.0	11.7	12.3	12.3	12.9	11.0	11.0	6.8	11.9	12.0	11.0	12.5	9.9	9.9	8.9	12.4	12.4	13.8	13.8	11.0	11.7	11.2
DUR	3	2	4	6	5	5	3	3	6	4	4	4	4	3	3	6	3	3	1	1	3	3	4
TOT																							
							(S)							(S)			(S)						
0- 1	2.5						3.0			1.5	1.0			4.0	8.0		5.0	1.0	10.0	5.0	5.5		9.0
1- 2			6.0				3.5							4.0	8.0		6.5	2.5	5.0	9.5			
2- 3	4.0											2.0		4.0	8.0		8.0	4.0	9.0	4.5	7.0		
3- 4														4.0	8.5		1.0	5.5	4.0	8.5		3.0	
4- 5						5.5	1.5							4.5	8.5		3.0	7.0	8.5	3.5	8.5	8.0	
5- 6	2.0						2.0					11.0		4.5	8.5		4.5	8.5	3.0	8.0	1.0		
6- 7			2.5				2.5							4.5	8.5	2.0	6.0	1.5	7.5	3.0	10.0		
7- 8	4.0						3.0			2.0				4.5	8.5		7.5	3.0	2.5	7.0	2.5		6.5
8- 9			4.5				3.5						11.0	4.5	8.5		9.0	4.5	6.5	2.0	11.5		
9-10						2.0								4.5	8.5	3.5	2.0	6.0	1.5	6.5	4.0	5.5	
10-11	1.5	1.0												4.5	8.5		3.5	7.5	6.0	1.0		11.0	
11-12		3.0					1.5						11.5	4.5	8.5		5.0	9.0	10.0	5.5	5.5		
12-13	3.5						2.0							4.5	8.5	5.0	6.5	2.0	5.0	10.0			
13-14							2.5							4.5	8.5		8.0	3.5	9.5	4.5	7.0		
14-15							3.0							4.5	8.5		1.0	5.5	4.5	9.0		3.0	4.0
15-16	1.5		3.0	1.0	1.5	4.0	3.5							4.5	8.5	6.5	2.5	7.0	8.5	4.0	8.5	8.0	
16-17										10.5				4.5	8.5		4.0	8.5	3.5	8.0	1.0		11.0
17-18	3.5		4.5	2.0	2.5									4.5	8.5		5.5	1.5	8.0	3.0	10.0		
18-19							1.0							4.5	8.5	8.0	7.0	3.0	2.5	7.5	2.5		
19-20				3.0	3.5		2.0					11.5		4.5	8.5		8.5	4.5	7.0	2.5	11.5		
20-21	1.0						2.5		1.0					4.5	8.5		1.5	6.0	2.0	6.5	4.0	5.5	
21-22					5.0		3.0							4.5	8.5	9.5	3.0	7.5	6.0	1.5		11.0	1.5
22-23	3.0		1.0				3.5		2.5					4.5	8.5		4.5	9.0	1.0	6.0	5.5		
23-24										11.0		1.5		4.5	8.5		6.5	2.0	5.5	10.0			9.0
24-25		1.0	3.0						3.5	1.5				4.5	8.5	11.0	8.0	3.5	9.5	5.0	7.0		
25-26		3.0					1.0						1.0	4.5	8.5		9.5	5.0	4.5	9.5		3.0	
26-27			5.0			2.5	1.5							4.5	9.0		2.5	6.5	9.0	4.0	8.5	8.0	
27-28	2.5						2.5							5.0	9.0		4.0	8.0	4.0	8.5	1.0		
28-29							3.0					1.5		5.0	9.0		5.5	1.0	8.0	3.5	10.0		
29-30							3.5							5.0	9.0		7.0	2.5	3.0	7.5	2.5		



	BS	BT	BU	CD	ER
	VUL	VUL	VUL	VUL	VUL
MAX	11.0	11.8	10.6	11.5	7.3
MIN	11.5	12.5	11.4	12.6	7.5
DUR	3	3	3	4	4
TOT					
0- 1	6.0		10.0	11.5	7.5
1- 2					
2- 3		7.0			9.5
3- 4		10.5	6.0		
4- 5			9.5		
5- 6	11.5			6.5	
6- 7	10.5				
7- 8	9.5			7.5	7.0
8- 9	8.0		9.0		
9-10	7.0			9.0	9.0
10-11	6.0	6.5			
11-12		10.0		10.0	11.5
12-13			8.5		
13-14				11.5	
14-15					6.5
15-16	11.5				
16-17	10.5		8.0		8.5
17-18	9.0		11.5		
18-19	8.0	6.5		6.5	11.0
19-20	7.0	10.0			
20-21	6.0		7.5	7.5	
21-22			11.0		
22-23				8.5	
23-24					8.0
24-25			7.5	10.0	
25-26	11.5		10.5		10.5
26-27	10.5	6.0		11.0	
27-28	9.0	9.5			
28-29	8.0		7.0		
29-30	7.0		10.0		