

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

	TU	TZ	TZ	UU	XZ	YY	AC	AK	AM	AM	RW	TY	RZ	TV	TW	ZZ	AB	CW	CW	DZ	GT	IR	IS
	CMA	CMA	CMA	CMA	CMI	CMI	CMI	CMI	CMI	CMI	CAP	CAP	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
MAX	9.7	9.8	9.8	10.0	9.7	8.5	11.0	10.1	10.0	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	10.7	10.5	10.5	12.5	10.2	9.1	11.5	11.5	10.7	10.4	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	5	3	4	3	4	5	6	5	4	4	4	5	4	4	3	3	4	5	4	5

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

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

	SS	RW	RW	RZ	RZ	SS	SS	CC	CC	U	RW	TW	W	W	RV	RV	V	Y	SW	WW	ZZ	AE	BR	
	CET	COM	COM	COM	COM	COM	COM	COM	COM	CRB	CRB	CRB	CRV	CRV	CRV	CRV	CRT	CYG	CYG	CYG	CYG	CYG	CYG	
MAX	9.4	11.0	11.0	10.0	10.0	10.9	10.9	11.0	11.0	7.6	10.1	10.5	10.6	10.6	9.0	9.0	9.5	7.0	9.3	9.9	10.7	11.8	9.4	
MIN	13.0	11.6	11.6	10.7	10.7	11.5	11.5	11.9	11.9	8.8	10.6	11.3	11.2	11.2	10.0	10.0	10.2	7.6	11.8	13.2	12.0	12.8	10.5	
DUR	5	3	3	3	3	4	4	2	2	5	4	4	4	4	4	4	4	6	5	5	4	4	4	
TOT	2																							
			(S)		(S)		(S)		(S)					(S)		(S)		(S)						
0- 1		5.5	2.5	5.0	1.0	5.5	10.5	1.5	4.0		10.0	5.5	9.5	5.0	5.0		3.0				7.0		5.5	
1- 2		4.5	1.5	5.5	1.5	1.5	6.5	4.0	1.5		3.5	10.0	4.0	8.5		7.5		8.5	11.5					
2- 3		3.0	6.0	5.5	1.5	7.0	2.0	1.0	4.0	1.5			8.0	3.5		1.0	6.0					4.5		
3- 4		2.0	4.5	6.0	2.0	3.0	8.0	3.5	1.0		8.0	4.5	2.5	7.5	4.5						10.5			
4- 5		6.5	3.5	6.5	2.5	8.5	3.5	6.0	3.5		1.5	8.5	6.5	2.0		7.0	8.5	8.0					5.0	
5- 6		5.0	2.5	7.0	3.0	4.5	9.5	3.5	6.0				1.0	6.0	10.5	1.0	1.0					8.0		
6- 7		4.0	1.0	7.0	3.0	10.0	5.0	6.0	3.0		5.5	3.0	5.0	10.0	4.0									
7- 8		2.5	5.5	7.5	3.5	6.0	1.0	3.0	5.5			7.5	9.0	4.5		6.5	3.5	8.0				5.0		
8- 9		1.5	4.5	8.0	4.0	2.0	7.0	5.5	3.0		10.0	11.5	3.5	8.5	10.0					5.0	11.5		5.0	
9-10		6.0	3.0	8.5	4.5	7.5	2.5	2.5	5.5		3.5	1.5	7.5	3.0	4.0		6.0							
10-11		5.0	2.0	8.5	4.5	3.5	8.5	5.0	2.5			6.0	2.5	7.0		6.5		8.0				8.5		
11-12		3.5	6.5	1.0	5.0	9.0	4.0	2.5	5.0		7.5	10.0	6.0	1.5	10.0		9.0							
12-13		2.5	5.0	1.5	5.5	5.0	10.0	5.0	2.0	10.0	1.0		10.0	5.5	3.5		1.5					6.0	5.0	
13-14		1.0	4.0	1.5	6.0	10.5	5.5	2.0	4.5			4.5	5.0	9.5		6.0		8.0						
14-15		5.5	3.0	2.0	6.0	6.5	1.5	4.5	2.0		5.5	9.0	9.0	4.0	9.5		4.0							
15-16	1.5	4.5	1.5	2.5	6.5	2.5	7.0	1.5	4.5				3.5	8.0	3.5				5.0			9.5		
16-17		3.0	6.0	3.0	7.0	8.0	3.0	4.0	1.5		9.5	3.5	7.5	2.5		6.0	6.5	8.0					5.0	
17-18		2.0	5.0	3.0	7.5	4.0	8.5	1.5	4.0		3.0	7.5	2.0	6.5	9.5							6.5		
18-19	1.0	6.5	3.5	3.5	7.5	9.5	4.5	4.0	1.0				6.0	1.0	3.0		9.5			4.0				
19-20		5.5	2.5	4.0	8.0	5.5	10.5	1.0	3.5	8.0	7.5	2.0	10.0	5.0		5.5	2.0	8.0				4.0		
20-21		4.0	1.0	4.5	8.5	1.0	6.0	3.5	6.0			6.0	4.5	9.0	9.0							10.0	5.0	
21-22		3.0	5.5	4.5	9.0	7.0	2.0	6.0	3.5		11.5	10.5	8.5	3.5	3.0		4.5			11.5				
22-23		1.5	4.5	5.0	1.0	2.5	7.5	3.0	6.0		5.0		3.0	7.5		5.5		7.5				7.5		
23-24		6.0	3.0	5.5	1.5	8.5	3.5	5.5	3.0			5.0	7.0	2.5	8.5		7.0					11.0		
24-25		5.0	2.0	6.0	1.5	4.0	9.0	3.0	5.5		9.5	9.0	1.5	6.5	2.5				8.5			4.5	10.5	5.0
25-26		3.5	6.5	6.0	2.0	10.0	5.0	5.5	2.5		3.0		5.5	10.0		5.0		7.5			10.5	9.5		
26-27		2.5	5.5	6.5	2.5	6.0	10.5	2.5	5.0	5.5		3.5	9.5	5.0	8.5		2.5					9.0		
27-28		1.0	4.0	7.0	3.0	1.5	6.5	5.0	2.5		7.0	8.0	4.0	9.0	2.5						8.0	8.0		
28-29		5.5	3.0	7.5	3.0	7.5	2.5	2.0	5.0				8.0	3.5		5.0	5.0	7.5				7.5	5.0	
29-30		4.5	1.5	7.5	3.5	3.0	8.0	4.5	2.0		11.5	2.0	2.5	7.5	8.0						5.0	6.5		

	CG	DK	KR	KV	MY	MY	V346	V387	V388	V401	V456	V466	V466	V477	V548	V704	1034	W	TT	TY	YY	FZ	Z
	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	DEL	DEL	DEL	DEL	DEL	DRA
MAX	11.0	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
MIN	11.8	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
DUR	3	4	4	5	4	4	5	3	3	4	3	4	4	4	5	4	4	7	5	4	4	3	4
TOT																		2					

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

	RZ	TW	UZ	UZ	AI	BH	S	TZ	YY	YY	RW	SX	TX	WW	AF	AL	Z	RX	SZ	TT	TU	UX	CC	
	DRA	DRA	DRA	DRA	DRA	DRA	EQU	ERI	ERI	ERI	GEM	GEM	GEM	GEM	GEM	GEM	HER	HER	HER	HER	HER	HER	HER	
MAX	10.0	7.8	9.9	9.9	7.2	8.0	8.0	9.8	8.4	8.4	9.6	10.8	10.0	9.8	10.2	9.3	7.3	7.1	10.2	9.7	10.6	8.9	9.5	
MIN	10.9	9.5	10.7	10.7	8.2	8.6	10.0	12.6	9.1	9.1	11.6	11.7	11.9	10.5	11.3	10.0	8.2	7.7	12.0	10.4	13.4	9.8	12.8	
DUR	3	5	5	5	4	5	5	4	3	3	5	5	6	4	4	4	8	5	4	4	5	5	4	
TOT		1						1			1										1			
				(S)					(S)															
0- 1	7.0	10.0							1.5				1.5											
1- 2	9.5			7.5											4.5		4.5		8.0					
2- 3						10.0										4.5			3.5		8.5	4.5		
3- 4	1.5	5.5			4.0																		11.0	
4- 5	3.5				9.0	5.5				2.0										10.0				
5- 6	6.0									1.0								4.5	9.0	10.0	8.0		7.0	4.5
6- 7	8.5		5.0			1.0									4.0				5.5	6.0				
7- 8	11.0													5.5						3.5				
8- 9									2.5													9.0		
9-10	2.5		11.0		4.0				1.5							3.5	4.0				3.5			
10-11	5.0				8.5							3.0								8.0			9.5	
11-12	7.5			2.5				1.0					6.0		3.0					3.5	10.0	11.5		
12-13	10.0													4.5					11.5				3.0	
13-14						7.5				2.0														
14-15	1.5	10.5		8.5						1.0		5.5	1.5					6.5	10.0	11.0				
15-16	4.0				4.0	3.0	11.0												5.5	8.5				
16-17	6.5				8.5										2.5	2.5				6.5				
17-18	9.0	6.0												3.0						4.5			8.0	
18-19	11.5								1.5													5.5		
19-20			6.0								5.0									8.0			5.5	
20-21	3.0	1.5														7.0				3.5	11.5			
21-22	5.5				3.5							1.5			2.0				9.0					
22-23	8.0				8.5	9.5	8.0			2.0	2.0			2.0									8.0	
23-24	10.5									1.5						1.5				10.0				
24-25				3.5		5.0		1.5												5.5	11.5		6.5	
25-26	2.0											4.0	6.0								9.5	10.0		
26-27	4.5														1.5						7.5			
27-28	7.0			9.5	3.5				1.5							6.0					5.5	7.0		
28-29	9.5	11.5			8.5								1.5					12.0	8.0	3.0				
29-30												6.5								3.5			11.0	

	CT	DI	DI	HS	HS	LT	V728	WY	WY	AV	DF	DF	DI	DK	SW	SW	VX	AR	AW	CM	CO	CO	DG
	HER	HER	HER	HER	HER	HER	HER	HYA	HYA	HYA	HYA	HYA	HYA	HYA	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC
MAX	9.9	8.4	8.4	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
MIN	11.2	9.1	9.1	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
DUR	4	6	6	4	4	4	3	3	3	4	4	4	4	4	3	3	4	6	5	4	5	5	4
TOT																		2					
			(S)		(S)				(S)			(S)				(S)						(S)	
0- 1	4.5				8.0		4.5	4.0			4.5			6.5	11.0				7.5		3.0		
1- 2							3.0		6.0		4.5		2.5	7.5	10.0			10.0	10.5				
2- 3						4.5	2.0			1.0	4.5				9.0							10.0	
3- 4						6.5	11.5				4.0				8.5			10.0			5.0		4.0
4- 5				9.5		8.5	10.5		2.5	2.5	4.0	8.0	4.5		7.5	11.0							
5- 6					5.5	10.5	9.0	4.5			3.5	7.5				10.5			9.5				8.5
6- 7							7.5		6.0	3.5	3.5	7.5				9.5				8.0	7.0		
7- 8	8.0						6.0				3.5	7.5	6.0	1.0		8.5		9.0	4.0			1.0	
8- 9							5.0	1.0		5.0	3.0	7.0		2.5	11.5	7.5			7.5				
9-10	3.0			7.5			3.5		3.0		3.0	7.0	2.5	3.5	10.5			8.5	10.5		9.0		
10-11							2.0	4.5		6.0	2.5	6.5		4.5	9.5		8.5						3.0
11-12			5.5						6.5		2.5	6.5		5.5	8.5		10.0	8.0					
12-13							10.5			7.0	2.5	6.5	4.0	6.5	8.0	11.5					11.0		
13-14				10.0			9.5	1.5			2.0	6.0				10.5		8.0				5.0	
14-15	11.5			5.0			8.0		3.0	8.5	2.0	6.0				10.0				8.5			4.5
15-16					4.5	6.5	5.0				1.5	5.5	6.0			9.0		7.5	4.0				
16-17	6.5				6.5	5.0			6.5		1.5	5.5				8.0			7.5			7.0	9.5
17-18					8.5	3.5				2.0	1.5	5.5	2.0		11.0			7.0	10.5		2.0		
18-19				8.0	10.5	2.5	1.5				1.0	5.0				10.0							
19-20									3.5	3.0	1.0	5.0		1.5	9.0			6.5					9.0
20-21							11.0	5.0				4.5	4.0	2.5	8.0						4.0		
21-22							9.5		7.0	4.5		4.5		3.5	7.5	11.0		6.0					
22-23			9.5				8.0				4.5			4.5		10.5				9.0		11.0	
23-24	10.0			6.0			7.0	2.0		5.5		4.0	5.5	5.5		9.5		6.0	4.0		6.0		
24-25		4.5					5.5		3.5		8.0	4.0		6.5		8.5	7.5		7.5				
25-26	4.5						4.0	5.5		7.0	7.5	3.5	2.0		11.5	7.5	9.5	5.5	10.5				5.5
26-27							2.5				7.5	3.5			10.5		11.0				8.0		
27-28			7.5				1.5			8.0	7.5	3.5			9.5							2.0	10.5
28-29					4.5	11.0	2.0				7.0	3.0	3.5		8.5								
29-30					6.5	10.0		4.0			7.0	3.0			8.0	11.5					10.0		

MAS Eclipsing Binary Ephemeris for April 2017

all times in U.T.

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	EP	U	SX	V501	V508	V839	1010	EF	EF	EQ	ER	ER	ET	FH	FL	FR	FT	FZ	FZ	GU	GU	U	U
	MON	OPH	OPH	OPH	OPH	OPH	OPH	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	PEG	PEG
MAX	10.5	5.8	10.5	10.9	10.1	8.8	6.2	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
MIN	11.1	6.5	11.2	11.8	10.7	9.4	7.0	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
DUR	5	5	5	4	3	3	4	6	6	4	3	3	5	5	3	4	4	3	3	4	4	3	3
TOT																							
								(S)			(S)								(S)		(S)		(S)
0- 1						10.5		1.5			3.0		4.0		4.0				1.5				
1- 2					4.5	6.0	6.5									1.0		1.5			4.5	10.5	
2- 3		9.5			5.5	11.5													1.5		3.0		
3- 4					6.0	7.0	6.0					2.0						1.5			2.0		
4- 5					7.0			3.0			3.5								1.5			10.5	
5- 6			5.0		8.0	8.0	5.5			1.5								1.5		4.5			
6- 7	2.0				8.5						1.5						2.0		1.5	3.0			
7- 8	5.5	10.0	6.5		9.5	9.5	5.5				2.5							1.5		2.0		10.5	
8- 9					10.5	5.0			4.0							2.5			1.5				
9-10			8.0		11.0	10.5	5.0										5.5	1.5			4.5		
10-11					6.0						2.0								1.5		3.5	10.5	
11-12			9.5		4.5	11.5	4.5					3.0						1.5			2.0		
12-13		11.0			5.5	7.0		5.0		1.0									1.5				
13-14			11.0		6.0						1.0			1.5	3.5				1.5		4.5	10.5	
14-15	2.5				7.0	8.0						2.5							1.5	3.5			
15-16					8.0													4.5	1.5		2.0		
16-17					8.5	9.5	11.5									1.5			1.5			10.5	
17-18		11.5			9.5	5.0		1.5				1.5	3.5						1.5		4.5		
18-19					10.0	10.5	11.0				3.0		2.5						1.5		3.5	11.5	
19-20				11.5	11.0	6.0							1.5						1.5		2.0	10.0	
20-21				10.5		11.5	11.0													1.5			
21-22				10.0	4.5	7.0		3.0			2.0								1.5	4.5			11.5
22-23	3.5			9.0	5.5		10.5					3.5							1.5	3.5		10.0	
23-24				8.5	6.0	8.0										3.0			1.5		2.0		
24-25		4.5		7.5	7.0		10.0				1.0								1.5				11.5
25-26				7.0	7.5	9.0		4.0				2.5							1.5		4.5	10.0	
26-27				6.0	8.5	5.0	9.5												1.5		3.5		
27-28				5.0	9.5	10.5									2.5				1.5		2.0	11.5	
28-29				4.5	10.0	6.0	9.5				1.5		3.0				3.0		1.5	1.5		10.0	
29-30		5.5			11.0	11.5		5.0			3.0								1.5	5.0			

	TY	UX	AQ	BB	BB	BG	BX	DI	GP	KW	KW	Z	RT	RV	ST	XZ	IQ	IQ	IT	IU	KW	V432	BETA
	PEG	PEG	PEG	PEG	PEG	PEG	PEG	PEG	PEG	PEG	PEG	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER
MAX	10.5	10.7	10.3	10.6	10.6	10.5	10.9	9.6	10.2	12.1	12.1	9.9	10.6	10.3	9.7	10.6	7.7	7.7	9.9	10.5	10.5	11.0	2.2
MIN	12.6	12.0	13.0	11.2	11.2	11.8	11.5	10.8	11.0	12.4	12.4	12.4	12.0	12.7	13.2	12.7	8.3	7.9	10.5	11.6	11.5	11.7	3.5
DUR	6	5	12	3	3	4	3	2	4	3	3	6	4	8	5	4	5	5	4	5	4	3	8
TOT			4			1						2			1								
			(3)		(S)																		
0- 1																				3.0	3.0		
1- 2				9.5			8.5						4.5					3.5			1.0	4.0	
2- 3				11.5			11.5	9.5		7.5			1.0	4.5				2.5					
3- 4					9.5	11.5	7.5									1.0						2.0	
4- 5					11.5		10.5				8.5			4.0		4.5							
5- 6				9.0		10.5							10.5										
6- 7				11.0			9.5			9.5		1.0		3.5					3.0			3.5	3.0
7- 8					8.5	9.0							3.5										
8- 9					11.0		9.0				10.5			3.0	4.0			3.0					1.5
9-10				8.5			12.0					2.5					2.0				10.5	5.0	
10-11	10.5			10.5			8.0			11.5				2.0					11.5		8.5		
11-12							11.0		11.5	7.0						2.5					7.0	3.0	
12-13					10.0		7.0		11.0			4.0	5.5	1.5		6.0			3.0		5.5		
13-14							10.0		10.0		8.0		2.0								4.0	1.0	
14-15				10.0					9.5												2.0	4.5	
15-16							9.0		9.0	9.0								2.5	2.0				
16-17					9.5				8.5				11.5		2.5		1.5						2.5
17-18					11.5		8.0				10.0												
18-19				9.5			11.0						4.5						3.5	3.0			
19-20				11.5			7.5	11.5		11.0						4.0							4.0
20-21					9.0		10.0																
21-22					11.0											11.0	7.0						2.0
22-23				9.0			9.5				7.5							1.5			11.5		
23-24					11.0																9.5		
24-25			9.0		8.5		8.5	11.0		8.5			3.0		1.5					3.0	8.0	3.5	
25-26					10.5		11.5														6.5		
26-27							7.5				9.5					2.0					4.5	1.5	4.5
27-28		10.0		10.0			10.5					10.5				5.5					3.0		
28-29	10.0									10.5							6.0				1.5		
29-30				10.0			9.5	11.0					5.5					1.0				3.5	1.5

	V	X	RS	RV	W	W	TX	TY	TY	UX	UX	VV	XZ	ZZ	AF	W	RU	VV	AG	AH	AH	AK	AW
	TRI	TRI	TRI	TRI	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMI	UMI	VIR	VIR	VIR	VIR	VIR	VIR
MAX	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	10.8	8.6	10.7	11.7	8.8	9.7	9.7	10.0	10.8
MIN	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	11.6	9.7	11.4	13.5	9.4	10.2	10.2	11.5	11.9
DUR	4	4	4	4	3	3	6	3	3	1	1	3	3	4	8	7	4	4	4	4	4	4	3

TOT

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

	AW	AX	AZ	AZ	BH	MS	MS	NY	Z	AW	AX	AY	BE	BO	BS	BT	BU	CD	V495	V495
	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL
MAX	10.8	10.0	11.0	11.0	9.9	9.4	9.4	13.3	7.4	10.8	11.0	11.0	9.9	10.4	11.0	11.8	10.6	11.5	9.6	9.6
MIN	11.9	10.8	11.8	11.8	11.3	9.7	9.7	14.2	9.2	11.9	12.5	12.9	11.4	13.3	11.5	12.5	11.4	12.6	10.0	10.0
DUR	3	4	3	3	4	3	3	1	6	5	5	4	5	4	3	3	3	4	4	4
TOT	(S)		(S)			(S)														(S)
0- 1	3.0		6.0	2.0		2.0	5.5	2.5							8.0			10.0	9.0	11.0
1- 2	4.5	8.0	7.5	3.0		8.0	4.0	3.0		10.0					7.0					
2- 3	6.0		8.5	4.5	9.0	6.5	2.5	3.0							6.0		6.5	11.0		
3- 4	7.5	10.5	1.5	5.5	5.0	5.0	8.5	1.0								10.0				
4- 5	9.0	3.5	2.5	6.5		3.5	7.0	1.5	10.0		6.5									
5- 6	2.0		3.5	8.0		2.0	5.5	1.5		11.0		9.0	7.0						6.5	8.5
6- 7	3.5	6.0	5.0	9.0	11.0	8.0	4.0	2.0		6.5	7.0						6.0			
7- 8	5.0		6.0	2.0	7.0	6.5	2.5	2.0							11.5	9.0	9.5	6.0		
8- 9	6.5	8.5	7.0	3.0	2.5	5.0	8.5	2.5			7.5		9.5		10.5					
9-10	8.0	1.5	8.5	4.0		3.5	7.0	2.5	8.0	11.5					9.0			7.0		
10-11	9.5	11.0	1.0	5.5		2.0	5.5	2.5		7.0	8.0				8.0					6.5
11-12	2.5	4.0	2.5	6.5	9.0	8.0	4.0	3.0							7.0		9.0	8.5		
12-13	4.0		3.5	7.5	4.5	6.5	2.5	3.0			8.5				5.5					
13-14	5.5	6.5	4.5	9.0		5.0	8.5	1.0										9.5	11.0	
14-15	7.0		6.0	1.5		3.5	7.0	1.5	5.5	8.0	9.5									
15-16	8.5	9.0	7.0	3.0	11.0	2.0	5.5	1.5								8.5	8.5	11.0		
16-17	1.5	2.0	8.0	4.0	6.5	8.0	4.0	2.0			10.0			11.5						
17-18	3.0	12.0	1.0	5.0	2.0	6.5	2.5	2.0				10.5			11.5					
18-19	4.5	4.5	2.0	6.5		5.0	8.5	2.5		8.5	10.5			10.5	10.0				8.5	10.5
19-20	6.0		3.5	7.5		3.5	7.0	2.5					6.5		9.0		8.0			
20-21	7.0	7.0	4.5	8.5	8.5	2.0	5.5	3.0			11.0			9.0	8.0		11.5			
21-22	8.5		5.5	1.5	4.0	8.0	4.0	3.0							7.0					
22-23	1.5	10.0	7.0	2.5		6.5	2.5	3.0		9.5	11.5	6.5	9.0	7.5	5.5			7.0		
23-24	3.0	2.5	8.0	4.0		5.0	8.5	1.0								8.0	7.5		6.5	8.5
24-25	4.5		9.0	5.0	10.5	3.5	7.0	1.5						6.5		11.5	11.0	8.0		
25-26	6.0	5.0	2.0	6.0	6.0	2.0	5.5	1.5				11.5								
26-27	7.5		3.0	7.5	1.5	8.0	4.0	2.0	10.0										9.5	
27-28	9.0	8.0	4.5	8.5		6.5	2.5	2.0							11.5		7.5			
28-29	2.0		5.5	1.5		5.0	8.5	2.5							10.0		10.5	10.5		6.0
29-30	3.5	10.5	6.5	2.5	8.0	3.5	7.0	2.5							9.0					