

MAS Eclipsing Binary Ephemeris for November 2017

all times in U.T.

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	RT	TW	UU	WZ	XZ	AB	AB	AD	AD	BD	BX	DS	QX	QX	RY	CX	CZ	XZ	KO	KP	OO	OO	V342	
	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AQR	AQR	AQR	AQL	AQL	AQL	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	11.3	11.3	8.8	10.7	10.3	9.3	8.3	9.7	9.2	9.2	9.0	
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	11.6	11.6	10.1	12.0	11.2	11.2	9.3	10.5	10.1	10.1	12.5	
DUR	3	11	8	4	3	3	3	4	4	3	4	4	3	3	5	3	3	7	5	4	3	3	7	
TOT		2																					3	
								(S)	(S)					(S)									(S)	
0- 1	7.5			2.0	3.0	5.5	1.5	4.0		10.0		1.0	2.0	7.0		3.5							0.5	
1- 2				11.5	11.5	5.0	1.5	4.0		8.5	3.5	1.0	7.5	2.5	0.0	6.0	7.0						0.5	
2- 3	5.0		3.0	4.5		5.0	1.0	3.5		6.5	9.0	1.5	3.5	8.0			3.5		2.0				1.0	
3- 4	11.0					5.0	1.0	3.0		5.0		1.5	9.0	4.0			0.5						1.5	
4- 5	2.5			6.5	4.5	5.0	1.0	3.0		3.0	5.0	2.0	4.5	9.5		0.5							1.5	
5- 6	8.5		2.5			5.0	1.0	2.5		1.5	10.0	2.0	0.5	5.5		3.5							2.0	
6- 7				8.5		4.5	0.5	2.0		10.5	1.0	2.5	6.0	1.0		6.0							2.0	
7- 8	5.5			1.0		4.5	0.5	2.0		9.0	6.0	2.5	2.0	7.0									2.5	
8- 9	12.0		1.5	10.5	6.5	4.5	0.5	1.5		7.0	11.5	3.0	7.5	2.5			4.5		3.0				3.0	2.0
9-10	3.0	1.5		3.0		4.5	0.5	1.0		5.5	2.0	3.0	3.5	8.5		1.0	1.5						3.0	
10-11	9.0					4.5	0.5	1.0	12.5	3.5	7.5	3.5	9.0	4.0		3.5							3.5	
11-12	0.5		1.0	5.5		4.0	0.0	0.5	12.5	1.5	12.5	3.5	5.0	10.0		6.0							4.0	
12-13	6.5				8.0	4.0	0.0	0.0	12.0	11.0	3.5	4.0	0.5	5.5						4.5			4.0	
13-14	12.5	4.5		7.5		4.0	0.0		11.5	9.0	8.5	4.0	6.5	1.5				2.0					4.5	
14-15	4.0		0.5	0.0		4.0	8.0		11.5	7.5		4.5	2.0	7.0		1.0	5.5						5.0	
15-16	10.0			9.5	1.5	4.0	8.0		11.0	5.5	4.5	4.5	8.0	3.0		3.5	2.0							
16-17	1.0			2.0	10.0	3.5	7.5		10.5	4.0	10.0	5.0	3.5	8.5		6.5								
17-18	7.5	7.5		11.5		3.5	7.5		10.5	2.0	0.5	5.0	9.5	4.5										
18-19				4.5		3.5	7.5		10.0	0.5	5.5	5.5	5.0	0.0									0.0	
19-20	4.5				3.0	3.5	7.5		9.5	9.5	11.0	5.5	1.0	6.0		1.0							0.5	
20-21	10.5			6.5	11.5	3.5	7.5		9.5	8.0	1.5	6.0	6.5	1.5		3.5	6.5						0.5	
21-22	2.0	10.5	10.5			3.0	7.0		9.0	6.0	7.0	6.0	2.5	7.5		6.5	3.0						1.0	
22-23	8.0			8.5		3.0	7.0		8.5	4.5	12.0	6.5	8.0	3.0									1.5	
23-24				1.0	5.0	3.0	7.0		8.5	2.5	3.0	6.5	4.0	8.5									1.5	
24-25	5.5		10.0	10.5		3.0	7.0		8.0	1.0	8.0	7.0	9.5	4.5		1.0							2.0	
25-26	11.5			3.0		2.5	6.5		7.5	10.0		7.0	5.0	0.5		4.0							2.5	1.0
26-27	2.5					2.5	6.5		7.5	8.5	4.0	7.5	1.0	6.0		6.5							2.5	
27-28	9.0		9.5	5.5	6.5	2.5	6.5		7.0	6.5	9.5	7.5	6.5	1.5			4.0						3.0	
28-29						2.5	6.5		6.5	5.0		8.0	2.5	7.5			1.0	1.0					3.5	
29-30	6.0			7.5		2.5	6.5		6.5	3.0	5.5	8.0	8.0	3.0		1.0				0.5	3.5			

	V343	V346	RX	SS	SS	RY	SX	TT	WW	WW	AP	AP	AR	AR	CL	EM	EP	HP	HP	IM	V459	V459	SS	
	AQL	AQL	ARI	ARI	ARI	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	BOO
MAX	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	7.7	7.7	10.3	
MIN	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	8.1	8.1	11.0	
DUR	4	4	4	3	3	6	4	5	5	5	4	4	5	5	4	4	3	3	3	4	4	4	18	
TOT																							6	
					(S)					(S)		(S)			(S)				(S)			(S)	(2)	
0- 1				1.5	6.5						4.0	11.0			7.5	4.0	10.5	6.5		3.5		5.0		
1- 2				6.5	2.0	1.5					7.5									9.0		6.5		
2- 3				2.0	7.0		3.5			3.5	10.5	4.0					5.0		10.0			8.0	12.5	
3- 4				7.5	2.5		8.5	5.5	9.5			7.0					9.5	3.0				9.5		
4- 5				3.0	8.0						3.5	10.5	0.5		1.0								11.0	
5- 6		0.5		8.0	3.0						7.0				7.0		4.0		6.0	3.0		12.5		
6- 7		3.0		3.5	8.5	12.5					10.0	3.5		2.5	13.0		8.5			9.0	1.5			
7- 8			0.5	9.0	4.0			5.5		4.5		6.5				10.5	13.0	9.5				3.0		
8- 9			1.5	4.5	9.0		5.0		11.0		3.0	10.0	4.0				3.0		2.5			4.5		
9-10	5.0		2.0	9.5	4.5	6.0	10.0				6.5				0.5	6.5	7.5		12.5			6.0		
10-11			2.5	5.0	0.0						10.0	3.0		5.5	6.5		11.5	5.5		3.0	7.5			
11-12	1.0		3.5	0.5	5.5			5.5				6.5			12.5	2.0	2.0			8.5	9.0			
12-13			4.0	5.5	1.0					6.0	3.0	9.5	7.0				6.5		9.0			10.5		
13-14			5.0	1.0	6.0		1.0		12.0		6.0						10.5	2.0				12.0		
14-15			5.5	6.5	1.5		6.0				9.5	2.5		9.0	0.0			12.0						
15-16			6.5	2.0	7.0		11.0	5.5			13.0	6.0			6.0		5.0		5.0	2.5		2.5		
16-17		2.0	7.0	7.0	2.5						2.5	9.5	10.5		12.0		9.5			8.5		4.0		
17-18		5.0	7.5	2.5	7.5	10.0				7.0	6.0	12.5						8.5				5.5		
18-19			8.5	8.0	3.0						9.0	2.5		12.0		9.0	4.0		1.5			7.0		
19-20			9.0	3.5	8.5		2.0	5.5			12.5	5.5					8.5		11.5			8.5		
20-21			10.0	8.5	3.5	3.5	7.5				2.0	9.0			5.5	5.0	13.0	4.5		2.5		10.0		
21-22			10.5	4.0	9.0		12.5		2.0		5.5	12.5			11.5		3.0			8.0		11.5		
22-23	3.0		11.5	9.5	4.5					8.5	9.0	2.0				0.5	7.5		8.0			13.0		
23-24			12.0	5.0	9.5			5.5			12.0	5.5					12.0	1.0				1.5		
24-25				0.5	5.0							8.5					2.0	11.0				3.0		
25-26				5.5	0.5		3.5				5.0	12.0			5.0		6.5		4.0	2.0		4.5		
26-27		1.0		1.0	6.0		8.5		3.0		8.5			11.0		10.5				8.0		6.0		
27-28		3.5		6.5	1.5			5.5		9.5	12.0	5.0				11.5		7.5				7.5		
28-29				1.5	6.5	7.5						8.5					5.0		0.5			9.0		
29-30				7.0	2.0						5.0	11.5				7.5	9.5		10.5			10.5		

	SS	TU	TU	TY	TY	TZ	TZ	VW	VW	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	10.3	11.7	11.7	11.8	11.8	10.6	10.6	10.5	10.5	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	11.0	12.7	12.7	12.3	12.3	11.1	11.1	11.0	11.0	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	18	3	3	3	3	3	3	3	3	4	4	5	5	6	3	5	5	5	4	5	4	4	4
TOT	6																						
			(S)		(S)		(S)		(S)		(S)		(S)				(S)						
0- 1		12.5		0.5	12.0	12.5	2.0	12.5							11.5	12.5		9.0					
1- 2		12.0	0.5		11.0	10.0									1.5		12.5	3.0			5.5	5.0	
2- 3		11.5			9.5	0.5	11.0								6.0		6.5		8.0			8.0	
3- 4		11.0		12.5	1.0	12.0	1.5						1.0		10.5	4.5	1.0	10.0				11.5	
4- 5		10.0		11.0		2.5		11.0						0.0	1.0	12.5		4.5	6.5		11.5		
5- 6		9.5		10.0			10.5	11.5		0.5	0.5				5.0		8.0		9.5				
6- 7			12.5	1.0	12.5	11.5	0.5		12.5				9.0		9.5		2.5	11.5	13.0	5.0			
7- 8		0.5	12.0	0.0	11.5	1.5	12.5		13.0					7.5		4.0		6.0		12.0			
8- 9			11.5		10.5		2.5								4.5	12.0	9.5	0.0					
9-10			11.0	13.0	1.5	10.5									9.0		3.5	13.0			8.5		
10-11			10.0	12.0	0.5	1.0	11.5	10.5										7.0				5.5	
11-12			9.5	10.5		12.5	2.0	11.5							3.5	4.0	10.5	1.5		9.0		9.0	
12-13		12.5		2.0		10.0		12.0							8.0	11.5	5.0		5.0			12.0	
13-14		12.0	0.5	0.5	12.0	0.5	11.0	12.5					1.0		12.5			8.5	8.5				
14-15		11.5			11.0	12.0	1.0								2.5		12.0	3.0	11.5		5.5		9.0
15-16		10.5			10.0	2.0	13.0					0.5			7.0	3.5	6.5			6.5			
16-17		10.0		12.5	1.0		10.5	10.5							11.5	11.5	1.0	10.0					
17-18		9.5		11.0		11.0	0.5	11.0		10.5				5.5	2.0			4.5			11.5		
18-19			12.5	10.0		1.5	12.0	12.0	11.0						6.5		8.0						4.5
19-20		0.5	12.0	1.5	12.5		2.5	12.5		12.0					11.0	3.0	2.0	11.5				6.5	
20-21			11.5	0.0	11.5	10.5			13.0				12.5		1.0	11.0		5.5		10.5		9.5	
21-22			10.5		10.5	1.0	11.5								5.5		9.0		7.5			12.5	
22-23			10.0		1.5	12.5	2.0								10.0		3.5	12.5	10.5		8.5		
23-24			9.5	12.0	0.5	10.0		11.0					1.0		0.0	2.5		7.0					
24-25		12.5		10.5		0.0	11.0	11.5							4.5	10.5	10.5	1.5		7.5			
25-26	11.0	12.0	0.5	2.0		12.0	1.0	12.0				0.5			9.0		5.0						
26-27		11.5		1.0	12.0	2.0	13.0	13.0										8.5					
27-28		10.5			11.0		10.0							3.5	4.0	2.5	12.0	2.5			5.0		
28-29		10.0			10.0	11.0	0.5								8.5	10.0	6.0			5.0		7.0	
29-30		9.5		12.5	1.0	1.5	12.0		10.5						13.0		0.5	9.5	6.0	12.0		10.0	

	TZ	UU	XZ	YY	AC	AK	AM	TY	RZ	TV	TW	ZZ	AB	CW	CW	DZ	GT	IR	IS	IT	IV	MM	OR
	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	11.9	10.8	11.6	11.0	11.2	11.3	11.4
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	12.8	12.1	12.6	11.8	12.5	11.9	12.4
DUR	4	5	3	4	3	4	5	4	4	4	5	4	4	3	3	4	5	4	5	5	5	5	4

TOT	(S)											(S)											
0- 1		5.0	10.5		7.5	9.0		4.0						4.5	0.5	0.5	9.5	3.0				11.0	10.5
1- 2					4.5	12.5			4.5		9.5			3.5	7.0			12.0					
2- 3		9.0							9.5	10.5		2.0		2.0	6.0	9.0		4.0					
3- 4			8.0			5.0		0.5				8.0	8.5	1.0	5.0	3.5	9.0	13.0	10.0		13.0		
4- 5		13.0	12.0	6.0		8.5				6.0	6.0			0.0	4.0		5.0				13.0		4.0
5- 6				8.5	12.5	11.5	4.5							6.5	3.0	12.0			6.0		13.0	2.0	10.0
6- 7			5.5	10.5	9.0		5.0			1.5			2.5	5.5	2.0	7.0	9.0	6.0			13.0	6.0	
7- 8			9.5	13.0	6.0		5.5		4.0		3.0	1.5	11.0	4.5	1.0	2.0			2.0		13.0	10.0	
8- 9						7.5	6.0		9.0			7.5		3.5	7.5			7.0			13.0		
9-10						10.5	6.5							2.5	6.5	10.5	8.5				13.0		3.5
10-11			7.0				7.0	3.5					4.5	1.5	5.5	5.0		8.0			12.5		9.5
11-12			10.5				7.5			12.0	9.5			0.5	4.5	0.0		0.5			12.5		
12-13	12.0				11.0	6.5	8.0					1.0		7.0	3.5		8.5	9.0			12.5	1.0	
13-14		5.0			7.5	9.5	8.5		3.5	7.5		6.5		6.0	2.0	8.5		1.5			12.5	5.0	
14-15			8.0		4.5	13.0	9.0		8.0		6.0	12.5	7.0	5.0	1.0	3.5		10.0	11.0	12.5	12.5	8.5	3.5
15-16		9.0	12.0				9.5		13.0	3.0				4.0	0.0		8.0	2.5			12.5	12.5	9.0
16-17	8.0			7.0		5.5	10.0							3.0	6.5	12.0		11.5	7.0		12.5		
17-18		13.0	5.5	9.0		8.5	10.0				3.0	0.5	0.5	2.0	5.5	7.0		3.5			12.5		
18-19			9.5	11.5	12.5	12.0	10.5					6.0	9.5	1.0	4.5	1.5	8.0	12.5	3.5	10.0	12.5		
19-20					9.5		11.0		3.0			12.0		7.5	3.5			4.5			12.5		3.0
20-21					6.0	4.5	11.5	2.5	7.5					6.5	2.5	10.0					12.5	3.5	9.0
21-22			7.0			8.0	12.0		12.5		9.5		3.0	5.5	1.5	5.0	7.5	5.5			12.5	7.5	
22-23			10.5			11.0	12.5			9.0			12.0	4.5	0.5					7.5	12.5	11.5	
23-24							13.0					5.5		3.5	7.0			6.5			12.5		
24-25									4.5	6.0	11.5			2.0	6.0	8.5	7.5				12.0		2.5
25-26			8.0		11.0	7.0			2.5				5.5	1.0	5.0	3.0		7.5	12.0		12.0		8.5
26-27		5.0	12.0		8.0	10.0			7.0	0.0				0.0	4.0					5.0	12.0		
27-28				5.5	4.5				11.5		2.5			7.0	3.0	11.5	7.0	8.5	8.5		12.0	2.5	
28-29		9.0	5.5	8.0								5.0		5.5	2.0	6.5		1.0			12.0	6.5	
29-30			9.5	10.0		6.0						10.5	8.0	4.5	1.0	1.5		9.5	4.5		12.0	10.0	2.0

	OX	OX	PV	V364	V364	V375	V380	U	SU	WW	WZ	WZ	XX	ZZ	DK	DL	DV	EG	EK	GK	SS	TT	TW
	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CET	CET	CET
MAX	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	9.4	10.8	10.4
MIN	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	13.0	11.3	11.2
DUR	5	5	3	4	4	5	5	4	4	4	3	3	4	5	4	5	4	3	6	4	5	3	3
TOT								2													2		
		(S)			(S)							(S)											
0- 1		13.0			5.0	12.0				11.5	2.0	7.0			7.5		9.5	10.5			8.0		7.0
1- 2							8.0				8.0	3.0	6.0		7.5	8.5		12.5	10.5				5.5
2- 3				13.0							4.0	9.0			7.0			1.5				9.5	4.5
3- 4		0.5			7.5	11.0		2.5	12.0		0.0	5.0			6.5			3.5		7.0	9.0	3.0	
4- 5	6.5		10.0	2.0			1.0		9.5		6.0	1.0			6.5			6.0		11.5		8.0	2.0
5- 6		12.5					9.5		7.5	2.0	2.0	7.0		1.5	6.0		1.5	8.0		10.0		7.5	1.0
6- 7			4.0		9.5	9.5			5.0		8.0	3.0			5.5	6.0	5.0	10.0		8.5	6.5	7.0	7.5
7- 8				4.0					2.5		4.5	9.5		5.0	5.5		9.0	12.0		7.0		6.0	6.0
8- 9		0.0					2.5	2.5	0.0		0.5	5.5	6.0		5.0		13.0	1.5		5.5		5.5	5.0
9-10	6.0				11.5	8.5	11.0				6.5	1.5		8.5	4.5	12.0		3.5		4.0	6.0	5.0	3.5
10-11		12.0		6.0							2.5	7.5			4.5			5.5	7.0	2.5		4.0	2.5
11-12			10.0		0.5						8.5	3.5		11.5	4.0	3.5		7.5		0.5		3.5	1.5
12-13						7.0	4.5		12.5		4.5	9.5			3.5		0.5	10.0			5.5	3.0	0.0
13-14			4.0	8.0			13.0	2.0	10.0		0.5	5.5			3.5		4.5	12.0				2.0	6.5
14-15	5.5				2.5				7.5	7.0	6.5	1.5			3.0	9.5	8.5	1.0				1.5	5.5
15-16		11.0				6.0			5.0		2.5	7.5	6.5		2.5		12.5	3.0			4.5	1.0	4.0
16-17				10.0			6.0		3.0		8.5	3.5			2.5	0.5		5.5				0.0	3.0
17-18					4.5				0.5		4.5	9.5			2.0			7.5					2.0
18-19			10.0			4.5		1.5			0.5	6.0			1.5			9.5		12.5	4.0		0.5
19-20	5.0			12.0							7.0	2.0			1.5	7.0		12.0	3.5	11.0		10.0	7.0
20-21		10.5	4.0		6.5		8.0				3.0	8.0		1.5	1.0		4.0	1.0		9.5		9.0	6.0
21-22				1.0		3.5			12.5		9.0	4.0			0.5		7.5	3.0		8.0	3.5	8.5	4.5
22-23									10.5		5.0	10.0	6.5	4.5	0.5		11.5	5.0		6.5		8.0	3.5
23-24					8.5		1.0	1.5	8.0	12.0	1.0	6.0						7.5		5.0		7.0	2.5
24-25	4.5			3.0		2.0	9.5		5.5		7.0	2.0		8.0		4.5		9.5		3.5	3.0	6.5	1.0
25-26		10.0	10.0						3.0		3.0	8.0						11.5		2.0		6.0	7.5
26-27					11.0				1.0		9.0	4.0		11.5				0.5		0.0		5.0	6.5
27-28			4.0	5.5		0.5	2.5				5.0	0.0				10.5	3.0	3.0			2.0	4.5	5.0
28-29						12.0	11.5	1.0		2.0	1.0	6.0					7.0	5.0	0.0			3.5	4.0
29-30	4.0				13.0						7.0	2.0	7.0			2.0	11.0	7.0				3.0	3.0



	BR	CG	DK	KR	KV	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	9.4	11.0	10.3	9.2	11.5	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	10.5	11.8	10.8	10.0	12.6	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	3	4	4	5	5	3	3	4	3	4	4	4	5	4	4	7	5	4	4	3	4	3
TOT																		2					

(S)

0- 1			3.5								0.5			11.0									1.0
1- 2		3.5	2.5	3.5			1.5		2.0						3.0							2.5	3.5
2- 3	2.5		1.0				8.0					2.5		6.0	6.0			3.0				11.0	6.0
3- 4		1.0													9.5					2.0	3.0		8.5
4- 5		7.0			7.0		6.5	5.5	0.0	5.5	4.5			1.5									10.5
5- 6			8.0					2.5	4.0	3.0					2.5								4.5
6- 7	2.0	4.5	6.5	5.0			4.5			0.5			3.0		6.0							13.0	2.5
7- 8			5.0	1.5	3.0										9.5					1.0	1.0		5.0
8- 9		2.0	3.5			3.5	2.5		2.0														7.5
9-10			2.5										1.5	11.5	2.5				2.0				6.0
10-11	2.0		1.0				0.5	6.0							6.0						5.5	4.0	12.0
11-12		5.5					7.5	2.5			3.5			7.0	9.5						0.5		1.5
12-13				3.0					4.0	6.0													4.0
13-14		3.0	8.0						5.5		3.5	5.5	4.0	2.0	2.5							8.0	6.5
14-15	2.0		6.5							1.0					6.0				1.0	4.5	2.0		8.5
15-16		0.5	5.0					3.5		2.0					9.0		4.5		5.5				11.0
16-17		7.0	4.0						6.5	6.0			0.5									1.0	0.5
17-18			2.5	5.0				2.0	3.0						2.5							5.0	9.5
18-19	2.0	4.5	1.0	1.0								2.5		12.0	5.5						3.5		5.0
19-20						3.0				3.5					9.0			4.5					7.5
20-21		2.0					6.5			6.5	4.5	5.0	7.5			0.0						2.5	10.0
21-22			8.0							4.0					2.0				4.5		3.0	11.0	12.5
22-23	2.0		6.5	6.5				5.0	6.5	1.5	1.5			3.0	5.5			1.5			3.0		2.0
23-24		5.5	5.0	3.0					3.5	5.5					9.0								4.0
24-25			4.0		4.0			3.0															4.5
25-26		3.0	2.5								1.5				2.0						1.0	13.0	9.0
26-27	2.0		1.0					1.0		3.5					5.5					2.0			11.5
27-28		0.5			0.0			8.0				3.5	6.0	13.0	9.0				3.0				1.0
28-29		6.5		4.5					7.0		7.0											4.5	6.0
29-30			8.0	1.0				6.0	3.5	1.5	4.5	6.0			8.0	2.0	6.0						5.5







	UV	VZ	WZ	XY	XZ	AM	T	RR	RY	UZ	EW	FL	RU	RU	RW	AT	BB	BO	EP	V501	V508	V839	1010
	LEO	LEO	LEO	LEO	LEO	LEO	LMI	LEP	LYN	LYR	LYR	LYR	MON	MON	MON	MON	MON	MON	MON	OPH	OPH	OPH	OPH
MAX	9.5	10.6	11.3	9.5	10.6	9.2	10.2	10.2	11.9	9.8	11.2	8.7	10.6	10.6	9.1	10.6	10.6	10.8	10.5	10.9	10.1	8.8	6.2
MIN	10.2	11.7	12.0	9.9	11.2	9.8	12.6	10.9	13.3	11.0	13.6	9.5	11.3	11.3	11.9	11.4	11.3	12.1	11.1	11.8	10.7	9.4	7.0
DUR	3	4	5	2	3	3	6	4	4	5	5	4	5	5	5	5	4	5	5	4	3	3	4
TOT															1			1					

(S)

0- 1		6.5		6.0		7.5		6.0												1.0			
1- 2	10.5	9.0		9.0		10.0		4.0			1.0												
2- 3		11.0		12.5		12.5			11.5				8.5				8.5		4.0				
3- 4				9.0						4.5									8.0		0.5		
4- 5	10.5		9.0	12.0		8.0												5.5	11.5		1.5	0.5	
5- 6				8.5		10.5			8.5	2.0							6.5				2.5		
6- 7				12.0	12.5	13.0						1.0			12.5			11.0			3.0	1.5	
7- 8	10.5			8.5	12.0												11.5						
8- 9				11.5	11.5	9.0		11.5	5.5			5.0			10.5		5.0					3.0	
9-10				8.0	11.0	11.0		9.5					12.5										
10-11	10.5			11.5	10.5			7.5							8.0		10.0		5.0				
11-12			10.0	8.0	9.5			5.5	2.5										8.5				
12-13		6.5		11.0	9.0	9.5		3.5	12.5						6.0				12.0				
13-14	10.5	8.5		7.5	8.5	11.5	4.5										8.0				0.5	0.5	
14-15		11.0	5.5	11.0	8.0									8.0	3.5						1.5		
15-16		13.0		7.5	7.5	7.5			9.5								13.0	8.5			2.5	1.5	
16-17	10.5			10.5	7.0	10.0	5.0										6.5				3.0		
17-18				7.0	6.0	12.0																2.5	
18-19			11.0	10.5						6.5							11.5		6.0				
19-20	10.5			7.0		8.0	5.5	11.5				2.5					5.0		9.5				
20-21				10.0		10.5		9.0		5.0	13.0		6.5										
21-22			6.5	6.5		13.0		7.0	3.5			7.0		12.0			9.5						
22-23	10.5			10.0			6.0	5.0		2.5												0.5	
23-24				6.0		8.5		3.0														0.5	
24-25		6.0		9.5		11.0											8.0	6.0			1.5	1.5	
25-26	10.5	8.5	12.0	6.0			6.5		10.5							4.5					2.0		
26-27		10.5		9.5	12.5												12.5	11.5	7.0		3.0	2.5	
27-28		12.5		12.5	12.0	9.5						10.5		12.0	5.5	6.5		10.5	3.0				
28-29	10.5		7.5	9.0	11.5	11.5	7.0		7.5											2.5			0.5
29-30				12.5	11.0			13.0						9.5	6.0	11.0				1.5			

	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																			4	4	4		
		(S)			(S)							(S)	(S)			(S)			(2)		(3)		(S)
0- 1				4.0	9.0							6.0	11.0	4.0	10.0	7.5	3.0		7.5			7.5	3.5
1- 2		11.0		10.0	5.0		6.5					11.0	6.0	3.0	8.5	1.5	6.0					1.0	5.5
2- 3	6.5		8.0	6.5	11.5			7.5	13.0			6.0	11.0	12.5	7.0	4.5	9.0					3.0	7.5
3- 4				3.0	8.0		10.0		10.0	3.5	11.0	6.0	11.5	5.5	7.5	3.0	1.0					5.0	1.0
4- 5				9.5	4.5				7.5			6.0	11.0	10.0	4.0	1.5	6.0					7.0	3.0
5- 6	12.0			5.5	11.0			10.0	4.5			11.0	6.0	8.5	3.0	4.5	9.0					0.5	5.0
6- 7		7.5		12.0	7.0					7.5	6.0	11.0	7.0	12.5	7.5	3.0	3.0					2.5	7.0
7- 8	3.0			8.5	3.5							11.0	6.0	5.5	11.5	1.5	6.0					4.5	0.0
8- 9				5.0	10.0			12.5				6.0	11.0	4.0	10.0	4.5	9.0		1.0			6.5	2.0
9-10			7.5	11.5	6.0	12.0				11.0	11.0	6.0	3.0	8.5	7.5	3.0	5.5						4.5
10-11	8.5			7.5	2.5	11.0			11.5			6.0	11.0	12.5	7.0	1.5	6.0			1.0	3.0	2.0	6.5
11-12		4.0		4.0	9.0	10.0			9.0			11.0	6.0	11.5	5.5	4.5	9.0		3.0			4.0	
12-13				10.5	5.5	8.5			6.0			6.0	11.0	10.0	4.0	7.5	3.0	7.5				6.0	1.5
13-14				7.0	12.0	7.5		4.0	3.5			11.0	6.0	8.5	3.0	1.5	6.0						3.5
14-15		10.0		3.0	8.0	6.0	4.0					6.0	11.0	7.0	12.5	4.0	8.5		5.5			1.5	5.5
15-16	5.5			9.5	4.5	5.0						11.0	6.0	5.5	11.5	7.0	2.5					3.5	8.0
16-17			7.5	6.0	11.0	4.0	8.0	6.5				6.0	11.0	4.5	10.0	1.0	5.5					5.5	1.0
17-18				12.5	7.5	2.5						11.0	6.0	3.0	8.5	4.0	8.5		7.5			7.5	3.0
18-19	11.0			8.5	3.5		11.5		10.5			6.0	11.0	12.5	7.0	7.0	2.5					1.0	5.0
19-20		6.5		5.0	10.0			9.0	7.5			11.0	6.0	11.5	5.5	1.0	5.5					3.0	7.0
20-21				11.5	6.5				5.0			6.0	11.0	10.0	4.5	4.0	8.5					5.0	0.5
21-22			13.0	8.0	3.0							11.0	6.0	8.5	3.0	7.0	2.5		1.5	3.5	5.5	7.0	2.5
22-23		12.0		4.0	9.5			11.5				6.0	11.0	7.0	13.0	1.0	5.5					0.0	4.5
23-24	7.5		7.0	10.5	5.5							11.0	6.0	5.5	11.5	4.0	8.5					2.5	6.5
24-25		3.0		7.0	12.0							6.0	11.0	4.5	10.0	7.0	2.5					4.5	
25-26				3.5	8.5			12.0	5.0	11.0	6.0	3.0	8.5	1.0	5.5		1.0					6.5	2.0
26-27				10.0	4.5				9.5			6.0	11.0	13.0	7.0	4.0	8.5						4.0
27-28		9.0		6.0	11.0		2.0	3.0	6.5			11.0	6.0	11.5	5.5	7.0	2.5					1.5	6.0
28-29	4.0		12.5	2.5	7.5	12.5			3.5	8.5	6.0	11.0	10.0	4.5	1.0	5.5		3.0				3.5	
29-30				9.0	4.0	11.5	5.5					11.0	6.0	8.5	3.0	4.0	8.5					6.0	1.5

	BG	BX	DI	GP	KW	KW	Z	RT	RV	ST	XZ	IQ	IQ	IT	IU	KW	V432	BETA	AE	AE	Y	RV	UZ
	PEG	PEG	PEG	PEG	PEG	PEG	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER	PHE	PHE	PSC	PSC	PUP
MAX	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	7.5	7.5	9.0	11.3	9.7
MIN	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	8.2	8.2	12.0	12.0	10.6
DUR	4	3	2	4	3	3	6	4	8	5	4	5	5	4	5	4	3	8	2	2	7	3	4
TOT	1						2			1													

	(S)											(S)						(S)					
0- 1	8.0	4.5		9.5		4.0		9.5					11.0	9.0	7.5	6.5		3.0	7.0			1.5	
1- 2		1.0	5.5	9.0				6.0	8.0						5.5	6.0	1.0	10.5	5.0	0.5		4.0	
2- 3	7.0	4.0		8.5	5.0			2.0			2.0			0.0	2.0	4.0	4.5		7.0	2.5		6.5	11.5
3- 4		6.5	9.0	8.0	0.5				7.5	9.5	6.0		8.5	13.0		2.5	8.0		0.5	5.0		9.5	6.5
4- 5	6.0	3.0	2.0	7.5		6.0					9.5	7.5				1.0	2.5	7.5	2.5	7.0		12.0	
5- 6		6.0		6.5		1.5		12.0	6.5				2.0	1.5	12.5		6.0		4.5	0.5		1.0	
6- 7	4.5	2.0	5.0	6.0	7.0			8.0		1.0		1.0			9.0		0.5		6.5	2.5		3.5	11.0
7- 8		5.0		5.5	2.5			4.5	6.0						5.5		4.0	4.0	0.0	4.5		6.5	6.0
8- 9	3.5	1.0	8.5	5.0		8.0		1.0						3.5	2.0		8.0		2.0	6.5		9.0	
9-10		4.0	1.5	4.5		3.5	1.0		5.5		0.0	13.0					2.0		4.5			11.5	
10-11	2.5	0.0		4.0							3.5		8.0				6.0	1.0	6.5	2.0		1.0	10.0
11-12		3.0	5.0	3.0	4.5			10.5	5.0	8.0	7.5	6.5		5.0	12.5	11.5	0.0		8.5	4.0	7.0	3.5	5.5
12-13	1.5	6.0		2.5	0.0		2.5	7.0			11.0		1.5		9.0	10.0	4.0		2.0	6.0		6.0	
13-14		2.5	8.0	2.0		5.5		3.5	4.0			0.5			5.5	8.5	7.5		4.0	8.5		8.5	
14-15	0.0	5.0	1.0	1.5		1.0								6.5	2.0	6.5	2.0		6.0	1.5		11.0	9.5
15-16		1.5		1.0	6.5		3.5		3.5							5.0	5.5		8.0	4.0	1.0	0.5	
16-17		4.5	4.5	0.5	2.0			13.0				12.5				3.5	9.0		1.5	6.0		3.0	
17-18		0.5				7.5		9.0	3.0		1.5		7.0	8.0	12.5	1.5	3.5		3.5	8.0		5.5	
18-19		3.5	7.5			3.0	5.0	5.5			5.0	6.0			9.0	0.0	7.0		5.5	1.5		8.5	9.0
19-20		6.5	0.5					2.0	2.0	6.5	9.0		1.0		5.5		1.5		8.0	3.5		11.0	
20-21		2.5			4.0						12.5			10.0	2.0		5.0		1.0	5.5		0.0	
21-22		5.5	4.0				6.5		1.5								8.5	12.5	3.5	7.5		2.5	
22-23		1.5				5.0		11.5					12.5				3.0		5.5	1.0		5.5	8.5
23-24		4.5	7.5			0.5		8.0	1.0		11.5		11.5	12.5		6.5		7.5	3.0			8.0	
24-25		0.5	0.5		6.0		7.5	4.5				6.5		9.0	12.5	1.0	9.0	1.0	5.0			10.5	
25-26		3.5			1.5			0.5	0.5		3.0	5.5		0.0	5.5	11.0	4.5		3.0	7.5		12.5	
26-27		6.5	3.5			7.0					6.5		0.5	13.0	2.0	9.0	8.0		5.0	0.5	8.5	2.5	8.0
27-28		3.0				2.5	9.0			5.5	10.5					7.5	2.5	6.0	7.0	3.0		5.0	
28-29		5.5	7.0		8.0			10.0						2.0		6.0	6.0		0.5	5.0		7.5	
29-30		2.0			3.5			6.5				12.0			12.5	4.5	0.5		2.5	7.0		10.0	12.0

	UZ	AV	U	V505	1968	RS	AO	CC	CC	Y	RW	RZ	TY	WY	AC	AM	AQ	CT	EQ	EQ	HU	V	X	
	PUP	PUP	SGE	SGR	SGR	SER	SER	SER	SER	SEX	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TRI	TRI	
MAX	9.7	10.2	6.4	6.4	12.3	10.8	10.6	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	
MIN	10.3	10.8	9.1	7.6	13.3	11.5	12.1	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	
DUR	4	3	6	5	4	4	4	4	4	3	4	3	2	4	6	5	5	5	3	3	6	4	4	
TOT			2								1													
	(S)										(S)												(S)	
0- 1	12.0	11.5		2.5		1.5						8.5	4.5	12.0			8.0	5.5	3.5	7.5	9.0	4.0	8.5	
1- 2	7.0		1.5					11.5		12.5		4.5	6.5	4.5			13.0		4.0	0.0		8.0	7.5	
2- 3							0.0	12.0		8.5	3.0	10.0	8.5		2.5			5.5	4.5	0.5	10.5		7.0	
3- 4						1.0		0.5				6.0	10.0	6.5					5.5	1.0		2.0	6.5	
4- 5	11.0	8.5								11.0		2.0	12.0		3.5			5.5	6.0	2.0	12.0	6.5	5.5	
5- 6	6.0	11.5					12.5			7.0		8.0		8.0			4.5	4.5		6.5	2.5	10.5	5.0	
6- 7				0.5		1.0						4.0			4.5	9.5	5.5	7.0	3.0			0.5	4.5	
7- 8					1.0					9.5		10.0		10.0					5.5	7.5	3.5		4.5	3.5
8- 9	10.5	6.0										6.0		2.5	5.5			5.5	0.0	4.0		8.5	3.0	
9-10	5.5	9.0				0.5	1.0			12.0		2.0		12.0						0.5	4.5			2.5
10-11		11.5							12.0	8.0	10.5	8.0		4.5		6.5	1.5	5.5	1.0	5.5		2.5	1.5	
11-12			5.0						0.5			3.5					6.5		1.5	6.0		7.0	1.0	
12-13	10.0					0.5				10.5		9.5	1.0	6.5	1.5	7.5	11.5	5.5	2.5	6.5		11.0	0.0	
13-14		6.5		2.5							4.5	5.5	3.0							3.0	7.0		1.0	
14-15		9.0								12.5		1.5	5.0	8.5	2.5	8.5		5.5	3.5	7.5		5.0		
15-16		12.0				0.0				9.0		7.5	6.5							4.0	8.0		9.0	
16-17	9.5				1.5							3.5	8.5	10.0	3.5	9.5	3.0	5.5	4.5	0.5				
17-18										11.0		9.5	10.5	3.0			8.5		5.0	1.0		3.5		
18-19		6.5					12.0			7.5		5.5	12.0	12.0	4.5	10.5		5.5	6.0	1.5		7.5		
19-20		9.0		0.5			0.5					1.5		4.5					6.5	2.5		11.5		
20-21	8.5	12.0								9.5		7.0			5.5	12.0		5.5	7.0	3.0		1.5		
21-22											12.0	3.0		6.5						7.5	3.5		5.5	
22-23										12.0		9.0			6.5	13.0	5.0	5.5	8.0	4.0		9.5		
23-24	13.0	6.5								8.5		5.0		8.5			10.0		0.5	4.5				
24-25	8.0	9.5									6.5	1.0			7.5			5.5	1.0	5.0		4.0		
25-26		12.0			1.5					10.5		7.0		10.5					1.5	5.5	1.5	8.0		
26-27				3.0				12.0	7.0			3.0	1.0	3.0	8.5			5.5	2.0	6.5		12.0		
27-28	12.5					12.0		0.5			1.0	9.0	3.0	12.0			2.0		3.0	7.0	2.5	2.0		
28-29	7.5	7.0	3.0						9.0			5.0	5.0	5.0	10.0		7.0	5.5	3.5	7.5		6.0		
29-30		9.5			0.0							0.5	7.0				12.0		4.0	8.0	4.0	10.0	12.0	

	RS	RV	W	W	TX	TY	TY	UX	UX	VV	XZ	ZZ	AF	W	RU	VV	AG	AH	AH	AK	AW	AW	AX
	TRI	TRI	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMI	UMI	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VIR
MAX	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	10.8	10.0
MIN	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	11.9	10.8
DUR	4	4	3	3	6	3	3	1	1	3	3	4	8	7	4	4	4	4	4	4	3	3	4
TOT																							
				(S)		(S)												(S)			(S)		
0- 1	1.5	6.5	0.0	4.0		2.5	6.5	5.5	0.5	9.0	12.5	9.0			0.5				8.5		11.5		
1- 2		0.5	0.5	4.5	12.5	4.0	8.0	0.0	5.0	1.5				5.0	2.0		8.5	9.0			13.0		
2- 3		12.5	0.5	4.5		5.5	1.0	4.5	9.0	10.5					3.0				9.5				
3- 4		7.0	0.5	4.5		7.0	2.5	9.0	4.0	3.0					4.5	13.0		10.0				11.5	
4- 5		1.0	0.5	4.5		8.5	4.0	3.5	8.5	12.0	4.5				5.5				10.5			13.0	
5- 6			0.5	4.5		1.5	6.0	8.0	3.5	4.5	9.5		5.0		6.5			11.0			10.0		
6- 7		7.0	0.5	4.5		3.0	7.5	3.0	7.5					7.5	8.0		12.0	11.0			11.5	12.5	
7- 8		1.5	0.5	4.5		4.5	0.5	7.0	2.5	5.5		6.5			9.0			11.5					
8- 9			0.5	4.5		6.0	2.0	2.0	7.0					0.0	10.5		10.0	12.0			10.5		
9-10		7.5	0.5	4.5		7.5	3.5	6.5	1.5	7.0					11.5			12.5				12.0	
10-11		1.5	0.5	4.5		0.5	5.0	1.5	6.0		7.0		11.0		0.0		8.5						
11-12			0.5	4.5		2.0	6.5	5.5	1.0	8.5	12.5			10.0	1.5				8.5		10.5	10.5	
12-13		8.0	0.5	4.5		3.5	8.0	0.5	5.0	1.0					2.5			9.0			12.0		
13-14	10.5	2.0	0.5	4.5		5.0	1.0	5.0	0.0	10.0				2.5	3.5				9.5				
14-15			0.5	4.5		7.0	2.5	9.0	4.5	2.5		4.0			5.0			10.0				11.0	
15-16	8.0	8.0	0.5	4.5		8.5	4.0	4.0	8.5	11.5	4.5				6.0		12.0		10.5			12.5	
16-17		2.5	0.5	4.5		1.5	5.5	8.5	3.5	4.0	9.5	11.0		12.5	7.5			11.0					
17-18	6.0		0.5	4.5		3.0	7.0	3.0	8.0						8.5		10.0		11.5		11.0		
18-19		8.5	0.5	4.5		4.5	0.0	7.5	3.0	5.5				5.0	9.5			11.5			12.5	11.0	
19-20	4.0	2.5	0.5	4.5		6.0	1.5	2.5	7.0						11.0		8.5		12.0				
20-21			0.5	4.5		7.5	3.0	6.5	2.0	7.0					12.0	11.5		12.5				11.5	
21-22	1.5	9.0	0.5	4.5		0.5	4.5	1.5	6.5		7.0	1.5			0.5					12.5		13.0	
22-23		3.0	0.5	4.5		2.0	6.0	6.0	1.0	8.5	12.5				2.0				8.5				
23-24			0.5	4.5		3.5	7.5	1.0	5.5	1.0		8.5		7.5	3.0			9.0			11.5		
24-25		9.5	0.5	5.0		5.0	1.0	5.0	0.5	10.0					4.0	12.0	11.5		9.5		13.0		
25-26		3.5	1.0	5.0		6.5	2.5	0.0	4.5	2.5				0.5	5.5			10.0				10.0	11.5
26-27			1.0	5.0		8.0	4.0	4.5	9.0	11.5	4.5		5.5		6.5		10.0		10.5			11.5	
27-28		9.5	1.0	5.0		1.0	5.5	8.5	4.0	4.0	9.5				8.0			11.0					
28-29		3.5	1.0	5.0		2.5	7.0	3.5	8.5					10.0	9.0	12.5	8.0		11.5		10.5		
29-30			1.0	5.0		4.0	8.5	8.0	3.0	5.5					10.0			12.0			12.0		

	AZ	AZ	BH	MS	MS	NY	Z	AW	AX	AY	BE	BO	BS	BT	BU	CD	V495	V495
	VIR	VIR	VIR	VIR	VIR	VIR	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL
MAX	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	11.8	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	3	4	3	3	1	6	5	5	4	5	4	3	3	3	4	4	4
TOT		(S)			(S)													(S)
0- 1		10.5				11.5							1.0					
1- 2		11.5			12.0	11.5		3.0		6.0			0.0	1.5	1.5	2.5		
2- 3		12.5				12.0								5.0	5.0		5.0	
3- 4				13.0		12.0										3.5		
4- 5	11.0					12.5												
5- 6	12.0					12.5		4.0							1.5	5.0		
6- 7			11.5		12.0	12.5				2.0					4.5			
7- 8						10.5					1.0		4.5			6.0	3.0	5.0
8- 9		11.5		13.0		11.0							3.5					
9-10		12.5				11.0		4.5					2.0	1.5	1.0			
10-11						11.5		0.0			3.5		1.0	4.5	4.0			
11-12	10.5				12.0	11.5												
12-13	12.0					12.0										1.0	0.5	2.5
13-14	13.0			13.0		12.0		5.5			6.0				0.5			
14-15						12.5		1.0							4.0	2.5		
15-16		11.0	11.5			12.5			0.5						7.0			
16-17		12.5			12.0	13.0							5.5			3.5		
17-18						10.5		6.5	1.0				4.5	1.0	0.0			0.0
18-19	10.5			13.0		11.0		1.5		3.5			3.5	4.5	3.5	4.5		
19-20	11.5					11.0			1.5				2.0		6.5			
20-21	13.0					11.5							1.0			6.0	5.0	
21-22					12.0	11.5	4.5		2.5		0.0							
22-23		11.0				12.0		2.5							3.0			
23-24		12.0		13.0		12.0				3.0					6.5			
24-25			11.0			12.5					2.5							
25-26	10.5					12.5				3.5				0.5		1.0	2.5	4.5
26-27	11.5				12.0	13.0	2.0	3.0					5.5	4.0	2.5			
27-28	12.5					10.5			4.0		5.0		4.5		6.0	2.0		
28-29				13.0		11.0						5.0	3.0					
29-30		11.0				11.0			4.5				2.0			3.5		