

MAS Eclipsing Binary Ephemeris for December 2016

all times in U.T.

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	RT	TW	UU	WZ	XZ	AB	AB	AD	AD	BD	BX	DS	QX	QX	CX	CZ	XZ	KO	KP	OO	OO	V342	V343	
	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AQR	AQR	AQL	AQL	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	10.7	10.3	9.3	8.3	9.7	9.2	9.2	9.0	10.6	
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	12.0	11.2	11.2	9.3	10.5	10.1	10.1	12.5	12.3	
DUR	3	11	8	4	3	3	3	4	4	3	4	4	3	3	3	3	7	5	4	3	3	7	4	
TOT		2																					3	
								(S)	(S)			(S)	(S)								(S)			
0- 1	2.5					0.5	4.5		8.5	7.0		1.0	9.5	4.5								0.5		
1- 2	8.5		5.0	4.0	5.5	0.0	4.0		8.0	5.0	5.0	1.5	5.0	0.0								1.0	2.5	
2- 3						0.0	4.0		8.0	3.0	10.5	1.5	1.0	6.0	2.5							1.0		
3- 4	6.0			6.0		0.0	4.0		7.5	1.5	1.0	2.0	6.5	1.5	5.0							1.5		
4- 5	12.0		4.5			8.0	4.0		7.0	11.0	6.5	2.0	2.5	7.5		3.0						2.0	0.0	
5- 6	3.0			8.5	7.5	8.0	4.0		7.0	9.0	11.5	2.5	8.0	3.0								2.0		
6- 7	9.5	0.0		1.0		7.5	3.5		6.5	7.0	2.5	2.5	4.0	9.0								2.5		
7- 8	0.5		4.0			7.5	3.5		6.5	5.5	7.5	3.0	9.5	4.5	2.5				1.5			3.0		
8- 9	6.5			3.0	0.5	7.5	3.5		6.0	3.5		3.0	5.5	0.5	5.0			0.5						
9-10	13.0				9.0	7.5	3.5		5.5	2.0	3.5	3.5	1.0	6.0										
10-11	4.0	3.0	3.0	5.0		7.5	3.5		5.5	0.0	9.0	4.0	7.0	2.0		4.0	2.0							
11-12	10.0					7.0	3.0		5.0	9.5		4.0	2.5	7.5		1.0								
12-13	1.0			7.5	2.0	7.0	3.0		4.5	7.5	4.5	4.5	8.5	3.5	2.5									
13-14	7.5		2.5		11.0	7.0	3.0		4.5	6.0	10.0	4.5	4.0	9.0	5.5									
14-15		6.0		9.5		7.0	3.0		4.0	4.0	0.5	5.0	9.5	5.0									0.5	
15-16	4.5			2.0		6.5	3.0		3.5	2.5	6.0	5.0	5.5	0.5										
16-17	11.0		2.0		4.0	6.5	2.5		3.5	0.5	11.0	5.5	1.5	6.5	0.0	5.0								
17-18	2.0			4.0		6.5	2.5		3.0	10.0	2.0	5.5	7.0	2.0	2.5	2.0								
18-19	8.0					6.5	2.5		2.5	8.0	7.0	6.0	3.0	7.5								0.5		
19-20			1.0	6.0		6.5	2.5		2.5	6.5		6.0	8.5	3.5								0.5		
20-21	5.5				5.5	6.0	2.0		2.0	4.5	3.0	6.5	4.0	9.0					13.0			1.0		
21-22	11.5			8.5		6.0	2.0		1.5	2.5	8.5	6.5	0.0	5.0	0.0							1.5		
22-23	3.0		0.5	1.0		6.0	2.0		1.5	1.0		7.0	5.5	0.5	3.0							1.5		
23-24	9.0					6.0	2.0		1.0	10.5	4.5	7.0	1.5	6.5		2.5						2.0		
24-25	0.0			3.0	7.5	6.0	2.0		0.5	8.5	9.5	7.5	7.0	2.0								2.5		
25-26	6.0					5.5	1.5		0.5	6.5	0.0	7.5	3.0	8.0			1.5					2.5	2.0	
26-27	12.5			5.0		5.5	1.5			5.0	5.5	8.0	8.5	3.5	0.0							3.0		
27-28	3.5				0.5	5.5	1.5			3.0	11.0	8.0	4.5	9.5	3.0									
28-29	9.5			7.5	9.0	5.5	1.5			1.5	1.5	8.5	0.0	5.0								2.0		
29-30	1.0					5.5	1.5			10.5	6.5	8.5	6.0	1.0		3.5								
30-31	7.0			9.5		5.0	1.0	10.5		9.0		9.0	1.5	6.5		0.5								

	V346	RX	SS	SS	RY	SX	TT	WW	WW	AP	AP	AR	AR	CL	EM	EP	HP	HP	IM	SS	TU	TU	TY
	AQL	ARI	ARI	ARI	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	BOO	BOO	BOO	BOO
MAX	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	10.3	11.7	11.7	11.8
MIN	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	11.0	12.7	12.7	12.3
DUR	4	4	3	3	6	4	5	5	5	4	4	5	5	4	4	3	3	3	4	18	3	3	3
TOT																				6			
				(S)					(S)		(S)		(S)				(S)		(2)		(S)		
0- 1		4.5	3.0	8.0				1.5		8.5	2.0					8.0		5.0				9.5	10.5
1- 2		5.0	8.5	3.5			1.0		7.5	12.0	5.0					12.5					12.5	8.5	9.5
2- 3		6.0	4.0	8.5			9.0			1.5	8.5		1.0			2.5	8.0		2.5		12.0	8.0	8.0
3- 4		6.5	9.0	4.0		4.0				5.0	12.0			1.5		7.0		1.0	8.5		11.0	7.5	
4- 5		7.5	4.5	9.5		9.0				8.5	1.5	2.5		7.5		11.5		11.5			10.5		
5- 6		8.0	0.0	5.0			1.0	2.5		11.5	5.0				9.0	1.5	4.5				10.0		12.5
6- 7		9.0	5.5	0.5	7.0		9.0		9.0	1.5	8.0		4.5			6.0					9.0		11.0
7- 8	0.5	9.5	0.5	5.5						4.5	11.5				4.5	10.5		7.5	2.5		8.5	12.5	10.0
8- 9	3.0	10.0	6.0	1.0		0.0				8.0	1.0	6.0		1.0		0.5	0.5		8.5		8.0	12.0	9.0
9-10			1.5	6.5	0.5	5.5	1.0			11.5	4.5			7.0	0.5	5.0	11.0				7.5	11.0	7.5
10-11			6.5	2.0		10.5	9.0	3.5		1.0	8.0		7.5	13.0		9.5		4.0		11.0		10.5	
11-12			2.0	7.0					10.0	4.5	11.0											10.0	13.0
12-13			7.5	2.5						7.5	1.0	9.0				4.0	7.0		2.0			9.0	11.5
13-14			3.0	8.0			1.0			11.0	4.0			0.5		8.0		0.0	8.0		12.5	8.5	10.5
14-15			8.0	3.0	11.5	1.5	9.0			0.5	7.5		10.5	6.5	11.5	12.5		10.5			12.0	8.0	9.5
15-16			3.5	8.5		6.5		5.0		4.0	11.0			12.0		2.5	3.5				11.0	7.5	8.0
16-17			9.0	4.0		11.5			11.0	7.5	0.5	12.5			7.5	7.0					10.5		
17-18			4.5	9.0	4.5		1.0			10.5	4.0					11.5		6.5	2.0		10.0		
18-19	2.0		9.5	4.5			9.0			0.5	7.0				3.0	1.5			8.0		9.0		12.5
19-20			5.0	0.0						3.5	10.5			6.0		6.0	10.0				8.5	12.5	11.0
20-21			0.5	5.5		2.5		6.0		7.0	0.0			11.5		10.5		3.0			8.0	12.0	10.0
21-22			6.0	1.0		7.5	1.0		12.5	10.5	3.5					0.5					7.5	11.0	9.0
22-23			1.0	6.0		12.5	9.0				7.0					5.0	6.0		1.5			10.5	7.5
23-24			6.5	1.5						3.5	10.0					9.5			7.5			10.0	
24-25			2.0	7.0					1.0	6.5				5.5				9.5				9.0	13.0
25-26			7.0	2.5	9.0		1.0	7.5		10.0	3.0			11.0	10.0	4.0	2.5				12.5	8.5	12.0
26-27			2.5	7.5		4.0	9.0				6.5					8.0	12.5				12.0	8.0	10.5
27-28			8.0	3.0		9.0				3.0	10.0				5.5	12.5		5.5	1.5		11.0	7.0	9.5
28-29	1.0		3.5	8.5	2.5					6.5						3.0			7.5		10.5		8.5
29-30	3.5	0.5	8.5	4.0			1.0		2.0	9.5	3.0			4.5	1.5	7.0	9.0				10.0		
30-31		1.0	4.0	9.0			9.0	8.5		13.0	6.0			10.5		11.5		2.0			9.0		

	TY	TZ	TZ	VW	VW	AD	AD	BW	BW	Y	SV	AL	AN	CD	CD	R	RT	SX	TU	TZ	TZ	UU	XZ
	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CAM	CAM	CAM	CAM	CAM	CAM	CMA	CMA	CMA	CMA	CMA	CMA	CMA	CMI
MAX	11.8	10.6	10.6	10.5	10.5	9.8	9.8	7.1	7.1	10.6	8.6	10.5	9.7	11.6	11.6	6.2	11.4	10.3	9.7	9.8	9.8	10.0	9.7
MIN	12.3	11.1	11.1	11.0	11.0	10.4	10.2	7.5	7.5	12.4	9.4	11.3	10.2	11.8	11.8	6.8	12.9	11.4	10.7	10.5	10.5	12.5	10.2
DUR	3	3	3	3	3	4	4	5	5	6	3	5	8	5	5	4	5	4	4	4	4	5	3
TOT	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
0- 1		8.0	11.5	9.5							9.5			7.0				3.0					7.5
1- 2		12.5	9.0	10.0					10.5					1.0	10.5			6.0	11.5				11.5
2- 3	12.0	10.0		11.0							4.0	3.0			4.5		6.0		9.5				
3- 4	11.0	0.0	11.0	11.5				9.5			8.5	10.5		8.0				6.5			10.5		5.0
4- 5	9.5	11.5	8.0	12.0							13.0		0.0	2.5	11.5	4.0							8.5
5- 6	8.5	9.0	12.5	12.5	8.5					3.0	3.0				6.0	7.0					7.5		12.5
6- 7			10.0		9.5						7.5	2.5		9.5	0.5	10.5	3.0	12.5					
7- 8		11.0	0.5		10.0						12.0	10.5		4.0			10.0				6.5		6.0
8- 9	12.5	8.5	12.0		10.5					10.0	2.5				7.5			3.5					10.0
9-10	11.5	13.0	9.5		11.0						7.0			11.0	1.5				3.5	3.0			
10-11	10.5	10.5			12.0						11.5	2.0		5.0					6.5			5.5	3.5
11-12	9.0	0.5	11.5	8.5	12.5				10.5		1.5	10.0			8.5		7.0	9.5	10.0				7.5
12-13	8.0	12.5	8.5	9.0							6.0			12.0	3.0							9.5	11.0
13-14		9.5		9.5				9.5			10.5			6.5		6.0							
14-15			10.5	10.5							0.5	2.0		1.0	10.0	9.0							5.0
15-16	12.0	11.5	8.0	11.0						1.0	5.0	9.5			4.5	12.5	4.5						8.5
16-17	11.0	9.0	12.5	11.5							9.5			8.0			11.5	6.5					12.5
17-18	9.5		10.0	12.5										2.5	11.5								
18-19	8.5	11.0	0.5	13.0	9.0					8.5	4.5	1.5			6.0				4.0				6.0
19-20		8.5	12.0		9.5		8.5				9.0	9.5		9.5	0.0			12.5	7.5				10.0
20-21		13.0	9.5		10.0	9.5								3.5	13.0		8.5		10.5				
21-22	12.5	10.5			10.5	10.0		10.5			3.5				7.0	4.5		3.5					3.5
22-23	11.5	0.5	11.0		11.5	11.0					8.0	1.0		10.5	1.5	8.0							7.5
23-24	10.5	12.0	8.5		12.0	12.0	9.5				12.5	9.0		5.0		11.5						5.5	11.0
24-25	9.0	9.5		8.5	12.5	12.5					2.5				8.5		5.5	9.5		10.0			
25-26	8.0		10.5	9.0							7.0		0.0	12.0	3.0							9.5	5.0
26-27		11.5	8.0	10.0							11.5	0.5		6.5							9.0		8.5
27-28		9.0	12.5	10.5							2.0	8.5		0.5	10.0				4.5				12.5
28-29	12.0		10.0	11.0						6.5	6.5				4.0		3.0		8.0	6.0			
29-30	11.0	11.0	0.0	12.0							11.0			7.5		3.5	10.0	6.5	11.0				6.0
30-31	10.0	8.0	12.0	12.5							1.0	0.5		2.0	11.0	7.0					5.0		10.0

	YY	AC	AK	AM	AM	TY	RZ	TV	TW	ZZ	AB	CW	CW	DZ	GT	IR	IS	IT	IV	MM	OR	OX	OX
	CMI	CMI	CMI	CMI	CMI	CAP	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
MAX	8.5	11.0	10.1	10.0	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	10.1	10.1
MIN	9.1	11.5	11.5	10.7	10.4	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	10.9	10.9
DUR	4	3	4	5	6	4	4	4	5	4	4	3	3	4	5	4	5	5	5	5	4	5	5
TOT																							
					(S)							(S)											(S)
0- 1			9.0		7.0		8.0	7.0		2.0		1.5	5.0		12.5	5.5			1.0		8.0		
1- 2	5.0	10.5	12.0		7.5		12.5			8.0		0.5	4.0	10.5			9.5		1.0				
2- 3	7.0	7.0			8.0	2.0		2.5	4.0		2.5	7.0	3.0	5.5		6.5			1.0				
3- 4	9.5	4.0	5.0		8.5						11.5	6.0	2.0	0.5	12.5		6.0		1.0			5.0	
4- 5	11.5		8.0		9.0							5.0	1.0			7.5			1.0	3.0	2.0		11.0
5- 6			11.0		9.5		2.5		0.5	1.5		4.0	0.0	9.0			2.0		1.0	7.0	7.5		
6- 7					10.0		7.5		11.0	7.5	5.0	3.0	6.5	3.5	12.5	8.5			1.0	11.0			
7- 8		12.0	4.0		10.0		12.0					2.0	5.5			1.0			1.0				
8- 9		9.0	7.0		10.5							0.5	4.5	12.0		9.5			1.0			4.5	
9-10		5.5	10.5		11.0			8.5	7.5			7.5	3.5	7.0	12.0	2.0			1.0		1.5		10.5
10-11		2.5			11.5					1.0	7.5	6.5	2.5	2.0		10.5		12.0	1.0		7.5		
11-12			3.0		12.0		2.0	4.0		7.0		5.5	1.5			3.0			0.5	2.0			
12-13	3.5		6.0		12.5	1.0	6.5		4.0	12.5		4.0	0.5	10.5	12.0	11.5	11.0		0.5	6.0			
13-14	5.5		9.5				11.5				1.0	3.0	7.0	5.0		4.0			0.5	9.5		4.0	
14-15	8.0	10.5	12.5								10.0	2.0	6.0	0.0		12.5	7.0	9.5	0.5		1.0		10.0
15-16	10.0	7.5							0.5	0.5		1.0	5.0		11.5	5.0			0.5		7.0		
16-17	12.5	4.0	5.5						11.0	6.0		0.0	4.0	8.5			3.5		0.5		13.0		
17-18			8.5	2.5			1.5			12.0	3.5	6.5	3.0	3.5		6.0			0.5				
18-19			11.5	3.0			6.0	10.5			12.0	5.5	2.0		11.5			7.0	0.5	1.0		3.5	
19-20				3.5			11.0		7.5			4.5	0.5	12.0		7.0			0.5	4.5	0.5		9.5
20-21		12.5	4.5	4.0				6.0				3.5	7.5	6.5					0.5	8.5	6.5		
21-22		9.0	7.5	4.5						5.5	6.0	2.5	6.5	1.5	11.0	8.0			0.5	12.5	12.5		
22-23		6.0	10.5	5.0		0.0		1.5	4.0	11.5		1.5	5.5			0.5		4.5	0.5				
23-24		2.5		5.5			1.0					0.5	4.0	10.0		9.0	12.0		0.5			3.0	
24-25	4.5		3.5	6.0			5.5					7.0	3.0	5.0	11.0	1.5			0.5		0.0		9.0
25-26	6.5		6.5	6.5			10.5		0.5		8.0	6.0	2.0			10.0	8.0		0.0		6.0		
26-27	9.0		9.5	7.0					11.0	5.0		5.0	1.0			2.5		2.0	0.0	3.5	12.0		
27-28	11.0	11.0	13.0	7.0				12.0		11.0		4.0	0.0	8.5	10.5	11.0	4.5		0.0	7.5			
28-29		7.5	2.5	7.5							2.0	3.0	6.5	3.0		3.5			0.0	11.0		2.5	
29-30		4.5	5.5	8.0			0.5	7.5	7.5		10.5	2.0	5.5			12.0	0.5		0.0				8.5
30-31			9.0	8.5			5.0					1.0	4.5	11.5	10.5	4.5			0.0		5.5		

	PV	V364	V364	V375	V380	U	SU	WW	WZ	WZ	XX	ZZ	DK	DL	DV	EG	EK	GK	SS	TT	TW	TW	TX
	CAS	CAS	CAS	CAS	CAS	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CET	CET	CET	CET	CET
MAX	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	10.4	10.9
MIN	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	11.2	11.5
DUR	3	4	4	5	5	4	4	4	3	3	4	5	4	5	4	3	6	4	5	3	3	3	4
TOT						2													2				1
			(S)							(S)													(S)
0- 1			9.0				11.5		2.0	7.0			2.5	11.5		11.5				3.5	1.5	5.0	
1- 2		3.5		1.0	2.0		9.0		8.5	3.5			2.5			1.0		12.5		3.0	0.0	4.0	2.5
2- 3				12.0	10.5		6.5		4.5	9.5			2.0	2.5		3.0		11.0	6.0	2.0	6.5	2.5	
3- 4	7.5		11.0				4.5		0.5	5.5			1.5		2.0	5.0		9.5		1.5	5.5	1.5	8.0
4- 5		5.5				1.0	2.0	5.5	6.5	1.5	8.0		1.5		6.0	7.0	8.5	8.0		1.0	4.0	0.5	1.5
5- 6	1.5		0.0	11.0	3.5				2.5	7.5			1.0	9.0	9.5	9.5		6.5	5.5	0.0	3.0	6.5	
6- 7				12.0	13.0				8.5	3.5			0.5			11.5		5.0			2.0	5.5	7.0
7- 8		7.5							4.5	9.5			0.5			0.5		3.5			0.5	4.5	1.0
8- 9			2.0	9.5					0.5	5.5		2.0	0.0			2.5		2.0	5.0		7.0	3.0	
9-10					5.5	0.5	11.5		6.5	1.5	0.0					5.0		0.5			6.0	2.0	6.0
10-11	7.5	9.5					9.5		2.5	7.5		5.5		6.0	1.5	7.0					4.5	1.0	
11-12			4.0	8.5		12.5	7.0		8.5	3.5	8.0				5.0	9.0			4.0	8.0	3.5	7.0	
12-13	1.5						4.5		5.0	10.0		9.0			9.0	11.5				7.0	2.5	6.0	5.5
13-14		11.5			7.0		2.5	10.5	1.0	6.0				12.5	13.0	0.5	5.0			6.5	1.0	5.0	
14-15			6.0	7.0		0.5			7.0	2.0		12.0				2.5			3.5	6.0		3.5	
15-16		0.5							3.0	8.0				3.5		4.5				5.0	6.5	2.5	4.5
16-17					0.0	12.0			9.0	4.0	0.5					7.0		12.0		4.5	5.0	1.5	
17-18	8.0		8.5	6.0	9.0				5.0	10.0					0.5	9.0		10.5	3.0	4.0	4.0	0.0	
18-19		3.0					12.0	0.5	1.0	6.0	8.5			10.0	4.5	11.0		9.0		3.0	2.5	6.5	3.5
19-20	2.0						9.5		7.0	2.0					8.5	0.0		7.5		2.5	1.5	5.5	
20-21			10.5	4.5	2.0		7.5		3.0	8.0				1.0	12.0	2.5		6.0	2.5	1.5	0.5	4.0	
21-22		5.0			10.5	12.0	5.0		9.0	4.0						4.5		4.5		1.0	7.0	3.0	2.5
22-23							2.5		5.0	0.0						6.5	1.5	3.0		0.5	5.5	2.0	
23-24				3.5			0.0		1.0	6.5	0.5	2.0		7.5		8.5		1.5	1.5		4.5	0.5	8.0
24-25	8.0	7.0			3.5				7.5	2.5						11.0					3.0	7.0	2.0
25-26			1.5		12.5				3.5	8.5	9.0	5.0			4.0	13.0					2.0	6.0	
26-27	2.0			2.0		11.5			9.5	4.5					7.5	2.0	12.0		1.0		1.0	4.5	7.0
27-28		9.0					12.5	5.5	5.5	0.5		8.5			11.5	4.0					7.5	3.5	1.0
28-29			3.5		5.5		10.0		1.5	6.5				4.5		6.5					6.0	2.5	
29-30				1.0			7.5		7.5	2.5		12.0				8.5		0.5	7.5	5.0	1.0	6.0	
30-31		11.0		12.0			5.5		3.5	8.5	1.0					10.5				6.5	3.5		0.0

	RW	RW	RZ	RZ	SS	SS	CC	CC	U	RW	TW	W	W	RV	RV	V	SW	WW	ZZ	AE	CG	DK	KR
	COM	COM	COM	COM	COM	COM	COM	COM	CRB	CRB	CRB	CRV	CRV	CRV	CRV	CRT	CYG	CYG	CYG	CYG	CYG	CYG	CYG
MAX	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	9.3	9.9	10.7	11.8	11.0	10.3	9.2
MIN	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	11.8	13.2	12.0	12.8	11.8	10.8	10.0
DUR	3	3	3	3	4	4	2	2	5	4	4	4	4	4	4	4	5	5	4	4	3	4	4
TOT																	2						
		(S)		(S)		(S)		(S)					(S)		(S)								
0- 1	10.0	7.0	8.5	12.5	6.5	11.5	8.5	5.5			12.5		12.0		12.0	9.0				1.5		0.5	
1- 2	9.0	6.0	9.0		12.5	7.5	11.0	8.0				11.5						5.5	0.5	0.0			
2- 3	7.5	10.5	9.5		8.0		8.0	10.5					10.5	9.5		12.0			12.0				
3- 4	6.5	9.5	10.0			9.0	10.5	8.0			11.0	10.0			12.0		3.5	3.0					3.5
4- 5	11.0	8.0	10.0	6.0	9.5		7.5	10.5	11.0				9.5							4.0	6.0		
5- 6	9.5	7.0	10.5	6.5		10.5	10.0	7.5				8.5		9.0		7.0			0.0			4.5	
6- 7	8.5	11.5	11.0	7.0	11.0		7.5	10.0			9.5	12.5	8.0		11.5				6.5	1.0	3.0		
7- 8	7.5	10.0	11.5	7.0	7.0	12.0	10.0	7.0	9.0				12.0			9.5			12.5			1.5	
8- 9	6.0	9.0	11.5	7.5	12.5	8.0	7.0	9.5				11.0		9.0			3.5		3.5			0.5	
9-10	10.5	7.5	12.0	8.0	8.5		9.5	7.0					10.5		11.5	12.0					5.0		1.5
10-11	9.5	6.5	12.5	8.5		9.5	6.5	9.5			12.5	9.5							1.0				
11-12	8.0	11.0	13.0	8.5	10.0		9.0	6.5	0.0				9.0							2.5			
12-13	7.0	10.0		9.0		11.0	6.5	9.0	11.0			8.0	13.0		11.0	7.5						6.0	
13-14	11.5	8.5		9.5	11.5	6.5	9.0	6.0			11.5	12.0					2.0	4.5				4.5	
14-15	10.0	7.5		10.0	7.5	12.5	6.0	8.5					11.5			10.0						3.0	3.5
15-16	9.0	6.0	6.0	10.0		8.0	8.5	6.0	9.0			10.5			10.5				1.5			2.0	
16-17	8.0	10.5	6.5	10.5	9.0		5.5	8.5			10.0		10.0			12.5				3.5	0.5		
17-18	6.5	9.5	7.0	11.0		10.0	8.0	11.0			0.0	9.5											
18-19	11.0	8.0	7.0	11.5	10.5		10.5	8.0					8.5		10.5				5.0		1.0		
19-20	10.0	7.0	7.5	11.5		11.5	8.0	10.5	12.0			8.0	12.5			8.0							
20-21	8.5	11.5	8.0	12.0	12.0	7.0	10.5	7.5		11.0	13.0	12.0							2.5			6.0	1.5
21-22	7.5	10.0	8.5	12.5	8.0	13.0	7.5	10.0					11.0		10.0	10.5				5.0	4.5		
22-23	6.0	9.0	8.5	13.0		8.5	10.0	7.5				10.5										3.0	
23-24	10.5	8.0	9.0		9.5		7.0	10.0			11.5		9.5				1.0	5.5		2.0	2.0		
24-25	9.5	6.5	9.5			10.0	9.5	7.0				9.0			10.0				12.0			0.5	
25-26	8.0	11.0	10.0		11.0		7.0	9.5		13.0		13.0	8.5						3.0				3.0
26-27	7.0	10.0	10.0	6.0	7.0	11.5	9.5	6.5	9.5		10.0		12.0			8.5				5.5	6.0		
27-28	6.0	8.5	10.5	6.5	12.5	7.5	6.5	9.0			0.5	11.5			9.5				0.0	4.5			
28-29	10.5	7.5	11.0	7.0	8.5		9.0	6.5	10.5				11.0	13.0		11.0			6.5	4.0	3.5	6.0	
29-30	9.0	6.0	11.5	7.5		9.0	6.0	9.0				10.0							12.5	3.0		4.5	
30-31	8.0	10.5	11.5	7.5	10.0		8.5	6.0					9.5		9.5				3.5	2.5	1.0	3.5	

	LT	V728	WY	WY	AV	DF	DF	DI	DK	SW	SW	VX	AR	AW	CM	CO	CO	DG	GX	Y	UU	UV	VZ
	HER	HER	HYA	HYA	HYA	HYA	HYA	HYA	HYA	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LEO	LEO	LEO	LEO
MAX	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	11.4	9.5	10.6
MIN	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	12.7	10.2	11.7
DUR	4	3	3	3	4	4	4	4	4	3	3	4	6	5	4	5	5	4	6	5	4	3	4
TOT													2										
				(S)		(S)					(S)							(S)					
0- 1		1.5	4.0	12.5		4.5	8.5	9.5		5.5	1.5	6.0		4.0				1.0				9.5	
1- 2		11.5		5.5	9.5	4.5	8.5			4.5	0.5			7.0					4.5				
2- 3		10.0	7.5			4.0	8.0	5.5	6.5	3.5	7.5		10.5	4.0	9.0								
3- 4				9.0	11.0	4.0	8.0	11.0	7.5	2.5	6.5						3.0				11.0	9.5	
4- 5			11.0			4.0	8.0		8.5	2.0	5.5												
5- 6			4.0	13.0	12.0	3.5	7.5	7.5	9.5	1.0	4.5				11.0			0.0					
6- 7				6.0	4.5	3.5	7.5	13.0	10.5	7.5	4.0						5.0			6.0		9.5	
7- 8		3.0	8.0			11.0	7.0		11.5	6.5	3.0			0.5		0.0		5.0					5.0
8- 9		1.5		9.5	5.5	11.0	7.0	9.0	13.0	6.0	2.0			4.0							12.0		7.5
9-10		0.5	11.5			11.0	7.0			5.0	1.0			7.0			7.0	10.0				9.5	9.5
10-11		10.0	4.5		7.0	10.5	6.5	5.5		4.0	0.0			10.5	4.5	2.0					4.5		11.5
11-12	12.5			6.5		10.5	6.5	11.0		3.0	7.0	0.0							5.5	7.5			
12-13			8.0		8.0	10.0	6.0			2.0	6.0	2.0						9.0					9.5
13-14				10.0		10.0	6.0	7.0		1.5	5.0	3.5	8.5			4.0					13.0		
14-15			11.5	3.0	9.5	10.0	6.0	12.5	6.5	0.5	4.0	5.5											
15-16			5.0			9.5	5.5		7.5	7.0	3.5	7.0	8.0	0.5	0.0		11.0				5.0	9.5	
16-17		2.0		6.5	10.5	9.5	5.5	9.0	8.5	6.5	2.5			4.0		6.0		1.0		9.0			
17-18		0.5	8.5			9.0	5.5		9.5	5.5	1.5		7.5	7.0			0.0						
18-19		10.5		10.0	11.5	9.0	5.0	5.0	11.0	4.5	0.5			10.5	5.0			6.0				9.5	
19-20		9.0	12.0	3.5	4.0	9.0	5.0	10.5	12.0	3.5	7.5		7.0			8.0							5.0
20-21			5.0		13.0	8.5	4.5		13.0	2.5	6.5						2.0	11.0			6.0		7.0
21-22				7.0	5.5	8.5	4.5	7.0		1.5	5.5		7.0							10.0		9.5	9.5
22-23			8.5			8.0	4.5	12.5		1.0	4.5					10.0							11.5
23-24				10.5	6.5	8.0	4.0			7.5	4.0		6.5	0.5	1.0		4.0						4.5
24-25	13.0	2.0	12.0	3.5		8.0	4.0	9.0		6.5	3.0			4.0									9.5
25-26		1.0	5.5		8.0	7.5	3.5			6.0	2.0		6.0	7.0		12.0					7.0		
26-27		11.0		7.0		7.5	3.5	5.0	6.5	5.0	1.0	1.0		10.5	6.0		6.0			11.5		4.5	
27-28		9.5	9.0		9.0	7.5	11.0	10.5	7.5	4.0	0.0	3.0	5.5			1.0		1.5				9.5	
28-29				10.5		7.0	11.0		9.0	3.0	7.0	4.5								4.0			
29-30			12.5	4.0	10.0	7.0	11.0	7.0	10.0	2.0	6.0	6.5	5.0				8.0	6.5					4.5
30-31			5.5			6.5	10.5	12.5	11.0	1.5	5.0					3.0			7.0		8.0	9.5	

	WZ	XY	XZ	AM	RR	SS	DELT	RY	UZ	EW	FL	RU	RU	RW	AT	BB	BO	EP	SX	V501	V508	V839	1010
	LEO	LEO	LEO	LEO	LEP	LIB	LIB	LYN	LYR	LYR	LYR	MON	MON	MON	MON	MON	MON	MON	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	10.6	10.8	10.5	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	11.4	11.3	12.1	11.1	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	5	4	5	5	5	4	3	3	4
TOT														1									
													(S)										
0- 1		7.0		6.0	4.5			6.5				9.5		8.0		7.5							
1- 2	9.5	10.0		8.0	2.5																	12.0	
2- 3		6.5		10.5										6.0		12.0				1.5		0.0	
3- 4		10.0	12.5	13.0				3.0								6.0	5.0			0.5			
4- 5	5.5	6.0	12.0	6.5										3.5				5.5				1.0	13.0
5- 6		9.5	11.5	9.0									5.0		3.0	10.5	10.5	9.0					
6- 7		6.0	11.0	11.0										1.5		4.0		12.5	13.0				12.5
7- 8		9.0	10.0					10.5							3.5							0.5	
8- 9	10.5	5.5	9.5	7.0	10.5											9.0						1.5	
9-10		9.0	9.0	9.5	8.5				2.5						4.0	2.5							
10-11		5.5	8.5	11.5	6.5			7.5															
11-12	6.5	8.5	8.0	5.5	4.5							3.5			5.0	7.0		3.0			12.0	0.0	
12-13		5.0	7.5	7.5	2.5						3.5		9.0					6.5					
13-14		8.5	6.5	10.0		12.5	4.0								5.5	12.0		10.0				1.0	
14-15		5.0	6.0	12.5						12.0						5.5	8.0						
15-16	11.5	8.0	5.5	6.0											6.5								
16-17		4.5	5.0	8.0				1.0		11.0	12.0					10.5							
17-18		8.0	4.5	10.5				11.5						12.0	7.0	4.0						0.5	
18-19	7.5	4.5		13.0							7.5								12.5	1.5			
19-20		7.5		6.5	10.0									9.5	7.5	8.5		3.5					
20-21		4.0		9.0	8.0	12.5	8.5											7.0					0.0
21-22		7.5		11.0	6.0									7.0	8.5			11.0			12.0		
22-23	12.5	10.5			4.0	12.5										7.0							1.0
23-24		7.0	12.5	7.0	2.0			5.5			0.5		3.0	5.0	9.0		5.5						
24-25		10.5	12.0	9.5												11.5							
25-26	8.5	7.0	11.5	11.5							5.0	11.5		2.5	10.0	5.5	11.0						
26-27		10.0	11.0					2.0	3.0														
27-28		6.5	10.0	7.5		12.0	12.5								10.5	10.0		4.5				0.5	
28-29	4.0	10.0	9.5	10.0					0.5	3.5						3.5		8.0				1.5	
29-30		6.5	9.0	12.0											11.0			11.5					
30-31		9.5	8.5	6.0	9.5			9.5		2.0			7.0			8.5							

	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	10.0		8.0	6.0	0.5	6.5			4.0		1.5	6.0	1.0	7.0	6.0	1.5		3.5			5.0	1.0	
1- 2		5.5		2.0	7.0	5.0			1.5	1.5	6.0	1.5	11.0	5.5	0.0	4.5	0.0			1.0	3.5		3.0
2- 3	1.0		2.0	8.5	3.5	4.0		7.5			1.5	6.0	9.5	4.0	3.0							0.5	5.0
3- 4				5.0	10.0	3.0					6.0	1.5	8.5	2.5	6.0	1.5		5.5				2.5	
4- 5		11.0		1.5	6.5	1.5				5.0	1.5	6.0	7.0	1.5	0.0	4.5	2.5					4.5	0.5
5- 6	6.5			8.0	2.5	0.5		9.5	11.5		6.0	1.5	5.5	11.0	3.0								2.5
6- 7		2.0		4.0	9.0						1.5	6.0	4.0	9.5	6.0	1.5							4.5
7- 8			8.0	10.5	5.5		3.5		5.5	8.5	6.0	1.5	2.5	8.5	0.0	4.5	4.5					2.0	
8- 9	12.5			7.0	2.0				3.0		1.5	6.0	1.5	7.0	3.0	7.5						4.0	
9-10		8.0	1.5	3.0	8.5		7.0				6.0	1.5	11.0	5.5	6.0	1.5							1.5
10-11	3.5			9.5	4.5			1.5		12.0	1.5	6.0	10.0	4.0	0.0	4.5	7.0						4.0
11-12				6.0	1.0		11.0				6.0	1.5	8.5	2.5	3.0	7.5						1.5	6.0
12-13				2.5	7.5					13.0	1.5	6.0	7.0	1.5	6.0	1.5			1.0	3.5		3.5	
13-14	9.0			9.0	4.0			4.0	10.0		6.0	1.5	5.5	11.0	0.0	4.5						5.5	1.0
14-15		4.5	7.5	5.0	10.0				7.5		1.5	6.0	4.0	10.0	3.0	7.5		1.0					3.0
15-16				1.5	6.5	11.5			4.5		6.0	1.5	2.5	8.5	6.0	1.5						1.0	5.0
16-17			1.5	8.0	3.0	10.5		6.5	1.5		1.5	6.0	1.5	7.0		4.5						3.0	
17-18		10.0		4.5	9.5	9.0					6.0	1.5	11.0	5.5	3.0	7.5		3.0				5.0	0.5
18-19	5.5			0.5	5.5	8.0					1.5	6.0	10.0	4.0	6.0	1.5							2.5
19-20		1.0		7.0	2.0	7.0		8.5			6.0	1.5	8.5	2.5		4.5						0.5	4.5
20-21				3.5	8.5	5.5	1.5		11.5		1.5	6.0	7.0	1.5	3.0	7.5		5.0				2.5	
21-22	11.5		7.0	10.0	5.0	4.5			9.0		6.0	1.5	5.5	11.0	6.0	1.5						4.5	0.0
22-23		7.0		6.0	1.0	3.5	5.0	11.0	6.0		1.5	6.0	4.0	10.0		4.5							2.0
23-24	2.0		1.0	2.5	7.5	2.0			3.0	2.5	6.0	1.5	3.0	8.5	3.0	7.5			3.0				4.0
24-25				9.0	4.0	1.0	8.5	0.5	0.5		1.5	6.0	1.5	7.0	6.0	1.5						2.0	
25-26		12.5		5.5	10.5						6.0	1.5	11.0	5.5		4.5						4.0	
26-27	8.0			1.5	7.0		12.5			6.5	1.5	6.0	10.0	4.0	3.0	7.5						6.0	1.5
27-28		3.5		8.0	3.0			3.0			6.0	1.5	8.5	3.0	6.0	1.5							3.5
28-29			6.5	4.5	9.5				10.5		1.5	6.0	7.0	1.5		4.5						1.0	5.5
29-30				1.0	6.0				7.5	10.0	6.0	1.5	5.5	11.5	3.0	7.5						3.0	
30-31		9.0	0.5	7.5	2.0			5.5	5.0		1.5	6.0	4.0	10.0	6.0	1.5						5.5	1.0

	BG	BX	DI	GP	Z	RT	RV	ST	XZ	IQ	IQ	IT	IU	KW	V432	BETA	AE	AE	Y	RV	UZ	UZ	AV
	PEG	PEG	PEG	PEG	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER	PHE	PHE	PSC	PSC	PUP	PUP	PUP
MAX	10.5	10.9	9.6	10.2	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	9.7	10.2
MIN	11.8	11.5	10.8	11.0	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	10.3	10.8
DUR	4	3	2	4	6	4	8	5	4	5	5	4	5	4	3	8	2	2	7	3	4	4	3
TOT	1				2			1															

											(S)						(S)					(S)	
0- 1		2.5	6.0								2.5		6.5	1.5	6.5		2.5				11.0		
1- 2		5.0								1.5		3.0	3.0		1.0	0.0	4.5		0.0	6.0			
2- 3		1.5			10.0		1.0								4.5	2.5			3.0		11.0	5.0	
3- 4		4.5	2.5			6.5			3.0						8.0	4.5	0.0		5.5		6.0	8.0	
4- 5		0.5				3.0			6.5	13.0		4.5			2.5		2.0		8.0	10.5		10.5	
5- 6		3.5	5.5						10.0		8.0		10.0		6.0		4.5			5.5			
6- 7											7.0		6.5		0.5		2.0					10.0	
7- 8		2.5			12.5		8.5				2.0	6.0	3.0	12.0	4.0	4.0				2.5		5.0	5.5
8- 9		5.5	2.0			9.0				0.5				10.5	7.5		2.0		5.0	10.0		8.0	
9-10		1.5				5.5								9.0	2.0		4.0		7.5	5.0		11.0	
10-11		4.5	5.5			1.5			1.0			7.5		7.0	5.5		1.5					9.5	
11-12	5.5	1.0							4.5	12.5			10.0	5.5	9.0		4.0		3.0			4.5	
12-13		3.5							8.0		7.5		6.5	4.0	3.5	11.0		1.5		2.0	9.0	5.5	
13-14	4.5		1.5			11.0			11.5	6.0		9.5	3.0	2.5	7.0		3.5		4.5	4.5		8.0	
14-15		3.0				7.5					1.0			0.5	1.5		1.5		7.5		9.0	11.0	
15-16	3.5	5.5	5.0			4.0	7.0			0.0					5.0	7.5	3.5		10.0		4.0		
16-17		2.0				0.5						11.0			8.5			1.0		8.5			
17-18	2.0	5.0			0.5						13.0		10.0		3.0		3.5		1.5	3.5		5.5	
18-19		1.0	1.0						2.0	11.5			6.5		6.5	4.5	1.0		4.5		8.5	8.5	
19-20	1.0	4.0		7.0		10.0			6.0		6.5		3.0		1.0		3.0			7.0	13.0	3.5	11.0
20-21		0.0	4.5	6.5	2.0	6.5			9.5	5.5					4.5		1.0			9.5	8.0		
21-22		3.0		6.0		2.5					0.5	1.5		11.5	8.5	1.5		3.0				12.5	
22-23		6.0		5.5										10.0	2.5		0.5		1.5		7.5	6.0	
23-24		2.0	1.0	5.0	3.5		5.5						10.0	8.0	6.5		3.0		4.0	12.5		8.5	
24-25		5.0		4.5		12.0	12.5				12.0	3.0	6.5	6.5	0.5		5.0	0.5		6.5	7.5		11.5
25-26		1.5	4.0	3.5		8.5			0.0	11.0			3.0	5.0	4.5		2.5		9.0		12.0		
26-27		4.0		3.0	4.5	5.0	12.0		3.5		6.0			3.0	8.0		0.5	4.5	4.5		7.0		
27-28		0.5		2.5		1.5			7.5	5.0				4.5			2.5			1.0	11.5		6.0
28-29		3.5	0.5	2.0			11.0		11.0						6.0		4.5	0.0		3.5	7.0		9.0
29-30				1.5	6.0								10.0		0.5			2.5		6.0		11.5	11.5
30-31		2.5	3.5	1.0		11.0	10.5					6.0	6.5		4.0		0.0	4.5		9.0		6.5	

	U	V505	RS	AO	CC	CC	Y	RW	RZ	TY	WY	AC	AM	AQ	CT	EQ	EQ	HU	V	X	RS	RV	W	
	SGE	SGR	SER	SER	SER	SER	SEX	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TRI	TRI	TRI	TRI	UMA
MAX	6.4	6.4	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	10.3	11.4	9.1	
MIN	9.1	7.6	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	11.0	12.5	9.9	
DUR	6	5	4	4	4	4	3	4	3	2	4	6	5	5	5	3	3	6	4	4	4	4	3	
TOT	2							1																

	(S)											(S)											
0- 1					13.0			5.5		7.5	3.0	4.5				11.5	7.0	3.0	5.0		4.0		1.0
1- 2							12.0		3.5	5.0					3.5	7.5	3.5		0.5	3.5	0.0	9.5	1.0
2- 3							8.0	2.5	9.5	7.0	6.5			4.0	11.5	8.0	4.0	6.0	4.5	3.0		3.5	1.0
3- 4									5.5	9.0				9.5	3.5	0.5	4.5		8.5	2.0			1.0
4- 5						10.0	10.5		1.0	10.5	8.5				11.5	1.0	5.0	7.5		1.5		10.0	1.0
5- 6			11.5			10.5	6.5		7.0		1.0				3.5	1.5	5.5		2.5	0.5		4.0	1.0
6- 7						11.5	13.0		3.0		10.5				11.5	2.0	6.5	9.0	6.5	0.0			1.0
7- 8						12.0	9.0		9.0		3.0			1.0	3.5	3.0	7.0					10.0	1.0
8- 9					13.0	5.0		5.0		12.0		0.5	6.0	11.5	3.5	7.5	10.0	1.0				4.5	1.0
9-10						11.5		1.0		5.0				11.0	3.5	4.0	8.0		5.0				1.0
10-11						7.5	9.5	7.0				1.5		11.5	4.5	0.5	11.5	9.0				10.5	1.0
11-12								3.0		6.5					3.5	5.0	1.0					4.5	1.5
12-13				12.5	10.0		10.0		9.0			2.5		11.5	5.5	1.5		3.0					1.5
13-14					10.5		6.0	4.0	4.5	1.5	8.5			2.5	3.5	6.0	2.0		7.5			11.0	1.5
14-15					11.5		12.5		0.5	3.5	1.0		3.5	8.0	11.5	7.0	2.5				9.0	5.0	1.5
15-16					12.0		8.5		6.5	5.0	10.5				3.5	7.5	3.5		1.5				1.5
16-17					13.0				2.5	7.0	3.0	0.5	5.0		11.5	8.0	4.0		5.5		6.5	11.5	1.5
17-18							11.0		8.5	9.0	12.5				3.5	0.5	4.5		9.5			5.5	1.5
18-19							7.0		4.5	11.0	5.0	1.5	6.0		11.5	1.0	5.0				4.5		1.5
19-20								0.5						4.5	3.5	1.5	5.5		3.5				1.5
20-21				10.5		9.5	9.5		6.5		7.0	2.5	7.0	10.0	11.5	2.0	6.0		8.0		2.0	5.5	1.5
21-22						10.5	5.5	11.5	2.5						3.5	2.5	6.5						1.5
22-23						11.5	11.5		8.0		8.5	3.5	8.0		11.5	3.0	7.5		2.0		0.0		1.5
23-24						12.0	8.0		4.0		1.5				3.5	4.0	8.0		6.0			6.0	1.5
24-25		0.0				13.0		6.0	0.0		10.5	5.0	9.0	1.5	11.5	4.5	0.5					0.0	1.5
25-26	1.5						10.5		6.0		3.5			6.5	3.5	5.0	1.0		0.0	10.5			1.5
26-27							6.5		2.0		12.5	6.0	10.0	11.5	11.5	5.5	1.5		4.5	9.5		6.5	1.5
27-28			0.5	11.5			12.5	0.5	8.0	1.5	5.0				3.5	6.0	2.0		8.5	9.0		0.5	1.5
28-29					9.5		9.0		4.0	3.5		7.0	11.0		11.5	6.5	2.5			8.5			1.5
29-30						10.5		5.0		10.0	5.5	7.0			4.0	7.5	3.0		2.5	7.5		7.0	1.5
30-31			0.0		11.0		11.0		5.5	7.0		8.0	12.0	3.0	12.0	8.0	3.5		6.5	7.0		1.0	1.5

	W	TX	TY	TY	UX	UX	VV	XZ	ZZ	AF	W	RU	VV	AG	AH	AH	AK	AW	AW	AX	AZ	AZ	BH
	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMI	UMI	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VIR
MAX	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	11.0	11.0	9.9
MIN	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	11.8	11.8	11.3
DUR	3	6	3	3	1	1	3	3	4	8	7	4	4	4	4	4	4	3	3	4	3	3	4
TOT	(S)			(S)											(S)		(S)	(S)		(S)			
0- 1	5.0		1.0	5.5	2.0	7.0						3.0			8.5		10.0				11.0		
1- 2	5.0		2.5	7.0	6.5	2.0	7.0				2.0	4.5		12.5	9.0			11.5	12.0			12.0	
2- 3	5.0		4.0	8.5	1.5	6.0						5.5			9.5		8.5	13.0		9.0		11.5	
3- 4	5.0		5.5	1.5	5.5	1.0	8.5	1.0				6.5	11.5	11.0	10.0		10.0			10.0			
4- 5	5.0		7.0	3.0	0.5	5.5	1.0	6.5	6.5		11.5	8.0				10.5	10.0	11.5			11.5		
5- 6	5.0		0.5	4.5	5.0	0.0	10.0	12.0				9.0		9.5	11.0				9.0		12.5	8.5	
6- 7	5.0		2.0	6.0	9.5	4.5	2.5				4.5	10.0			6.5	11.5			10.5	10.0		9.5	
7- 8	5.0		3.5	7.5	4.0	9.0	11.5					11.5	12.0	7.5	12.0	7.0			12.0			10.5	9.5
8- 9	5.0		5.0	0.5	8.5	3.5	4.0					0.0	9.5		7.5	12.5		9.0		12.5		12.0	
9-10	5.0		6.5	2.0	3.5	8.0		4.0				1.0			13.0	8.0		10.5			9.0	13.0	
10-11	5.0		8.0	3.5	7.5	3.0	5.5	9.0				2.5		12.5	8.5			12.0			10.0		
11-12	5.5		1.0	5.0	2.5	7.5			4.0		7.0	3.5	12.5			9.0			9.0		11.0		11.5
12-13	5.5		2.5	6.5	7.0	2.0	7.0					5.0	10.0	11.0	9.5			10.5			12.5		
13-14	5.5		4.0	8.0	1.5	6.5			11.5			6.0				9.5			12.0	10.5		9.5	
14-15	5.5		5.5	1.0	6.0	1.5	8.5	1.0		5.5		7.0		9.0	10.0			9.5				10.5	
15-16	5.5		7.0	3.0	1.0	5.5	1.0	6.5				8.5	12.5			10.5			11.0			11.5	
16-17	5.5		0.0	4.5	5.5	0.5	10.0	12.0			9.5	9.5	10.0	7.5	11.0			12.5	8.0		8.5	13.0	9.0
17-18	5.5		1.5	6.0	0.0	5.0	2.5					11.0			6.5	11.5			9.5		10.0		
18-19	5.5		3.0	7.5	4.5	9.0	11.5		1.5		2.0	12.0			12.0	7.0			11.0	8.5	11.0		
19-20	5.5		4.5	0.5	9.0	4.0	4.0			11.5		0.5		12.5	7.5	12.5		8.5	12.5		12.0		
20-21	5.5		6.0	2.0	3.5	8.5		4.0	9.0			2.0	10.5		13.0	8.0		10.0		11.0		9.0	11.0
21-22	5.5		7.5	3.5	8.0	3.5	5.5	9.0			12.0	3.0		11.0	8.5			11.5				10.5	
22-23	5.5		0.5	5.0	3.0	7.5						4.0				9.0			13.0	8.5		11.5	
23-24	5.5		2.0	6.5	7.0	2.5	7.0				4.5	5.5		9.0	9.5		12.5		10.0		8.5	12.5	
24-25	5.5		4.0	8.0	2.0	7.0						6.5	11.0			10.0			11.5		9.5		13.0
25-26	5.5		5.5	1.0	6.5	1.5	8.5	1.0				8.0		7.5	10.0			9.0		9.0	11.0		
26-27	5.5		7.0	2.5	1.5	6.0	1.0	6.5				9.0				10.5			10.5			12.0	
27-28	5.5	3.0	8.5	4.0	5.5	1.0	10.0	12.0	6.5			10.0			11.0			12.0		12.0			9.0
28-29	5.5		1.5	5.5	0.5	5.0	2.5				7.0	11.5	11.0	12.5	6.5	11.5			9.0			10.0	
29-30	5.5		3.0	7.0	5.0	0.0	11.5					12.5			12.0	7.0	11.5		10.5			11.5	10.5
30-31	5.5	4.5	4.5	0.0	9.0	4.5	4.0				0.0	1.0		11.0	7.5	12.5			12.0		8.5	12.5	

	MS	MS	NY	Z	AW	AX	AY	BE	BO	BS	BT	BU	CD
	VIR	VIR	VIR	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL
MAX	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
MIN	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
DUR	3	3	1	6	5	5	4	5	4	3	3	3	4
TOT	(S)												
0- 1	11.5		9.5										
1- 2	10.0		10.0										1.5
2- 3		12.5	10.0					3.0				2.0	
3- 4		11.0	10.5		1.5							5.0	3.0
4- 5			10.5										
5- 6	11.5		11.0	3.0					4.0		3.0		4.0
6- 7	10.0		8.5									1.5	
7- 8		12.5	9.0		2.5				2.5	2.5		4.5	
8- 9		11.0	9.0				4.0			1.5			
9-10			9.5						1.5	0.0			
10-11	11.5		9.5	1.0								1.0	
11-12	10.0		10.0		3.0							4.5	
12-13		12.5	10.0										0.0
13-14		11.0	10.5								2.5		
14-15			10.5									0.5	1.5
15-16	11.5		11.0		4.0							4.0	
16-17	10.0		8.5					2.5		3.5			2.5
17-18		12.0	9.0							2.5			
18-19		10.5	9.0							1.5		0.0	4.0
19-20	13.0		9.5							0.0		3.5	
20-21	11.5		9.5		0.0								
21-22	10.0		10.0								2.0		
22-23		12.0	10.0										
23-24		10.5	10.5									3.0	
24-25	13.0		10.5		1.0	0.5							
25-26	11.5		11.0				1.5						
26-27	10.0		8.5			1.0				3.5			
27-28		12.0	9.0							2.5		2.5	1.0
28-29		10.5	9.0		1.5	1.5				1.0			
29-30	13.0		9.5							0.0	2.0		2.5
30-31	11.5		9.5			2.5		1.5					