

all times in U.T.

	RT	TW	UU	WZ	XZ	AB	AB	AD	AD	BD	BX	DS	DS	QX	QX	RY	CX	CZ	EK	EK	XZ	KO	KP
	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AQR	AQR	AQR	AQR	AQR	AQL	AQL	AQL
MAX	9.3	8.8	11.2	11.6	10.0	9.3	9.3	11.1	11.1	11.3	8.6	10.8	10.8	11.3	11.3	8.8	10.7	10.3	10.8	10.8	9.3	8.3	9.7
MIN	10.2	11.0	14.1	12.6	13.0	10.2	10.2	11.6	11.6	11.7	9.5	11.4	11.4	11.6	11.6	10.1	12.0	11.2	11.3	11.3	11.2	9.3	10.5
DUR	3	11	8	4	3	3	3	4	4	3	4	4	4	3	3	5	3	3	3	3	7	5	4
TOT		2																					
							(S)		(S)				(S)		(S)					(S)			
0- 1	2.5			1.0	1.5	5.5	1.5	7.0		0.5	9.0	8.0		7.0	2.0	2.0			5.5				0.0
1- 2	8.5		9.0	10.5	10.0	5.5	1.5	6.5		10.0		8.5		3.0	8.0		2.5			3.5			
2- 3		1.5		3.0		5.5	1.5	6.5		8.0	5.0	8.5		8.5	3.5	1.0	5.0	6.5	1.5	9.0			
3- 4	6.0					5.5	1.5	6.0		6.0	10.5	9.0		4.5	9.5		8.0	3.5	7.0				
4- 5	12.0		8.5	5.5	3.0	5.5	1.5	5.5		4.5	1.0	9.0		0.0	5.0	0.0		0.0		5.0			
5- 6	3.0				11.5	5.0	1.0	5.5		2.5	6.0	9.5		6.0	1.0				3.0				
6- 7	9.5	4.5		7.5		5.0	1.0	5.0		1.0	11.5	9.5		1.5	6.5		2.5		8.5	1.0			
7- 8	0.5		8.0	0.0		5.0	1.0	4.5		10.0	2.0	10.0		7.5	2.5		5.0			6.5	0.5		
8- 9	6.5			9.5	5.0	5.0	1.0	4.5		8.5	7.5	10.0		3.0	8.0		8.0	7.5	4.5				
9-10				2.0		4.5	0.5	4.0		6.5		10.5		9.0	4.0			4.5		2.5	4.0		
10-11	4.0	7.5	7.0	11.5		4.5	0.5	3.5		5.0	3.5	10.5		4.5	9.5			1.0	0.5	8.0			2.5
11-12	10.0			4.5		4.5	0.5	3.5		3.0	8.5	11.0		0.5	5.5		2.5		6.0			2.0	
12-13	1.0				6.5	4.5	0.5	3.0		1.5		11.0		6.0	1.0		5.5			4.0			
13-14	7.5		6.5	6.5		4.5	0.5	2.5		10.5	4.5	11.5		2.0	7.0		8.0		2.5				
14-15		10.5				4.0	0.0	2.5		9.0	10.0	11.5		7.5	2.5				7.5	0.5			
15-16	4.5			8.5		4.0	0.0	2.0		7.0	0.5	12.0		3.5	8.5			5.5		5.5			
16-17	11.0		6.0	1.0	8.5	4.0	0.0	1.5		5.5	6.0	12.0		9.0	4.0		2.5	2.0	4.0				
17-18	2.0			10.5		4.0	8.0	1.5		3.5	11.0	12.5	0.0	5.0	9.5		5.5			2.0			
18-19	8.0			3.0		4.0	8.0	1.0		1.5	1.5		0.5	0.5	5.5		8.0			7.5			
19-20			5.5		1.5	3.5	7.5	0.5		11.0	7.0		0.5	6.0	1.5				5.5				
20-21	5.5			5.5	10.0	3.5	7.5	0.5	12.0	9.5	12.5		1.0	2.0	7.0		0.0			3.5			5.0
21-22	11.5					3.5	7.5		12.0	7.5	3.0		1.0	7.5	3.0		3.0	6.0	1.5	9.0			
22-23	2.5		4.5	7.5		3.5	7.5		11.5	5.5	8.0		1.5	3.5	8.5		5.5	3.0	7.0		0.0		
23-24	9.0			0.0	3.0	3.5	7.5		11.0	4.0			1.5	9.0	4.0		8.0			5.0			
24-25	0.0			9.5	12.0	3.0	7.0		11.0	2.0	4.0		2.0	5.0	10.0				3.0		3.5		
25-26	6.0		4.0	2.0		3.0	7.0		10.5	0.5	9.5		2.0	0.5	5.5		0.0		8.5	1.0			
26-27	12.5			11.5		3.0	7.0		10.0	9.5	0.0		2.5	6.5	1.5		3.0			6.5			
27-28	3.5			4.5	5.0	3.0	7.0		10.0	8.0	5.5		2.5	2.0	7.0		5.5	7.0	4.5				
28-29	9.5		3.5			3.0	6.5		9.5	6.0	10.5		3.0	8.0	3.0		8.0	4.0		2.5			
29-30	1.0			6.5		2.5	6.5		9.0	4.5	1.5		3.5	3.5	8.5			0.5	0.5	8.0			
30-31	7.0					2.5	6.5		9.0	2.5	6.5		3.5	9.5	4.5		0.5		6.0				

MAS Eclipsing Binary Ephemeris for October 2024

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	OO	OO	V342	V343	V346	RX	SS	SS	RY	SX	TT	WW	WW	AP	AP	AR	AR	CL	EM	EP	HP	HP	IM
	AQL	AQL	AQL	AQL	AQL	ARI	ARI	ARI	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR
MAX	9.2	9.2	9.0	10.6	9.0	9.4	10.1	10.1	11.7	8.2	8.7	5.7	5.7	10.9	10.9	6.0	6.0	11.7	11.0	10.8	10.8	10.8	7.9
MIN	10.1	10.1	12.5	12.3	10.4	9.9	11.1	11.1	14.0	9.0	9.7	6.4	6.4	11.4	11.4	6.7	6.7	13.2	11.9	11.3	11.5	11.5	8.5
DUR	3	3	7	4	4	4	3	3	6	4	5	5	5	4	4	5	5	4	4	3	3	3	4
TOT			3																				
		(S)						(S)				(S)		(S)		(S)					(S)		
0- 1	3.0					12.0	0.5	5.5		9.0					7.0	4.5		9.0		10.0		11.5	
1- 2	3.0			2.0			6.0	1.0	12.0		10.0				10.5				5.5		4.5		3.0
2- 3	3.5						1.5	6.5				10.0		7.0			6.0			4.5			9.0
3- 4	4.0						6.5	2.0						10.5						9.0		8.0	
4- 5	4.0						2.0	7.0	5.5						7.0	7.5							
5- 6	4.5		0.5				7.5	2.5		5.5	10.0				10.0			8.5			11.0		
6- 7	5.0						3.0	7.5		10.5		5.0	6.5			9.0				8.0		4.0	3.0
7- 8	5.0				1.5		8.0	3.0			11.5		10.0							12.0			9.0
8- 9	5.5				4.0		3.5	8.5							6.5	10.5			12.0		7.5		
9-10	6.0				6.5		9.0	4.0			10.0				10.0								
10-11	6.0	0.0					4.5	9.0						6.0		12.5	8.0	8.0	11.0			10.5	
11-12		0.5					9.5	4.5		6.5		6.5	9.5								4.0		2.5
12-13		0.5		3.5			5.0		9.5	11.5					6.0				3.5	5.5			8.5
13-14		1.0					0.5	5.5			10.0				9.5					10.0		7.0	
14-15		1.5					5.5	1.0						6.0									
15-16		1.5	4.5				1.0	6.0	3.0					9.0			7.5		4.5	10.0			
16-17		2.0					6.5	1.5		3.0		7.5			5.5				9.0		3.5	2.5	
17-18		2.5			0.5		2.0	7.0		8.0	10.0				9.0								8.5
18-19		2.5			3.0		7.0	2.5						5.5	12.5						6.5		
19-20		3.0			5.5	1.0	2.5	7.5						9.0					10.5	8.0			
20-21		3.5				1.5	8.0	3.0						12.0	5.5			7.0		12.0		9.5	
21-22		3.5				2.5	3.5	8.0			10.0		8.5		8.5				6.5		3.0		2.0
22-23		4.0				3.0	8.5	3.5		4.0				5.0	12.0					6.5			8.0
23-24		4.5		5.0		4.0	4.0	9.0	7.0	9.0				8.5						11.0		6.0	
24-25		4.5				4.5	9.5	4.5						12.0	5.0								
25-26		5.0		1.5		5.5	5.0	9.5			9.5				8.5			6.5		5.5	9.0		
26-27		5.0				6.0		5.0				10.0			11.5			12.5		10.0			
27-28		5.5				6.5	5.5	0.5						8.0								12.5	8.0
28-29		6.0			2.0	7.5	1.0	6.0		5.0				11.5						4.5	5.5		
29-30	0.0				4.5	8.0	6.0	1.5		10.0	9.5				8.0					9.0			
30-31	0.5					9.0	1.5	6.5				5.0			11.5			6.0	9.0			8.5	

	V459	V459	SS	TU	TU	TY	TY	TZ	TZ	UW	VW	VW	ZZ	AD	AD	44	44	Y	SV	AL	AN	CD	CD
	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CAM	CAM	CAM	CAM	CAM	CAM
MAX	7.7	7.7	10.3	11.7	11.7	11.8	11.8	10.6	10.6	10.4	10.5	10.5	6.8	9.8	9.8	4.7	4.7	10.6	8.6	10.5	9.7	11.6	11.6
MIN	8.1	8.1	11.0	12.7	12.7	12.3	12.3	11.1	11.1	11.4	11.0	11.0	7.6	10.4	10.2	4.9	4.8	12.4	9.4	11.3	10.5	11.8	11.8
DUR	4	4	18	3	3	3	3	3	3	3	3	3	5	4	4	3	3	6	3	5	8	5	5
TOT			6																				
		(S)		(S)		(S)		(S)		(S)		(S)		(S)		(S)		(S)					(S)
0- 1				1.5		2.0		2.5								4.0	1.0	6.0	8.5			8.5	
1- 2				0.5		1.0			3.0								2.5			1.0		3.0	12.0
2- 3		5.5		0.0					0.5							1.0			3.5	8.5			6.5
3- 4		7.0					2.0	1.5		11.0		0.5				2.5			8.0		11.0	10.0	1.0
4- 5		8.5					1.0			2.5	11.0						1.0		12.5			4.5	
5- 6		10.0									11.5				1.0		3.0		2.5	0.5			8.0
6- 7		11.5			1.5	2.5		1.0		11.5			1.5	1.5		1.5			7.0	8.5		11.5	2.0
7- 8				0.5	1.5				2.0	11.5						3.0			11.5			5.5	
8- 9					0.0			3.0		11.5							1.5		2.0				9.0
9-10							3.0	0.0		12.0	0.0					0.0	3.5		6.0	0.0			3.5
10-11	5.0						1.5		1.0	12.0	1.0					2.0		4.0	10.5	8.0		7.0	
11-12	6.5						0.5	2.0		12.0						3.5	0.5		1.0			1.5	10.5
12-13	8.0		1.5						3.0	12.0							2.0		5.5				5.0
13-14	9.5		0.5		2.0				0.5	12.0						0.5	3.5	11.5	10.0			8.5	
14-15	11.0				1.0			1.5		12.5						2.0			0.0	7.5		2.5	12.0
15-16	12.5								2.5	12.5						4.0	0.5		4.5				6.0
16-17						2.5						0.5					2.5		9.0			9.5	0.5
17-18			2.0			1.0	1.0									1.0						4.0	
18-19				1.5					2.0							2.5			4.0	7.0			7.5
19-20		5.5		0.5	2.5			2.5									1.0		8.0			11.0	2.0
20-21		7.0			1.5			0.0					1.0				3.0	2.0				5.5	
21-22		8.5			0.5				1.0							1.5			3.0				9.0
22-23		10.0						2.0			0.5					3.0			7.5	7.0		12.5	3.5
23-24		11.5				2.0			3.0								1.5	9.5	12.0			7.0	
24-25			1.0			0.5		0.5								0.0	3.0		2.0		10.5	1.0	10.5
25-26			0.5					1.5					1.0			1.5			6.5				4.5
26-27					2.0				2.5							3.5	0.0		11.0	6.5		8.0	
27-28	5.0				1.0			3.5									2.0		1.5			2.5	11.5
28-29	6.5							0.5				0.0				0.5	3.5		5.5				6.0
29-30	8.0					2.5		1.5				1.0				2.0			10.0			9.5	0.5
30-31	9.5			1.0		1.0	2.5						1.0			4.0	0.5	0.0	0.5	6.0		4.0	

	R	RT	SX	TU	TZ	TZ	UU	XZ	YY	AC	AK	AM	RW	TY	RZ	TV	TW	ZZ	AB	CW	CW	DZ	IR
	CMA	CMA	CMA	CMA	CMA	CMA	CMA	CMI	CMI	CMI	CMI	CMI	CAP	CAP	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
MAX	6.2	11.4	10.3	9.7	9.8	9.8	10.0	9.7	8.5	11.0	10.1	10.0	9.8	10.5	6.4	7.3	8.3	10.7	10.2	11.8	11.8	11.6	10.8
MIN	6.8	12.9	11.4	10.7	10.5	10.5	12.5	10.2	9.1	11.5	11.5	10.4	10.8	11.6	7.8	8.4	8.9	11.1	12.2	12.5	12.5	12.3	12.1
DUR	4	5	4	4	4	4	5	3	4	3	4	6	5	4	4	4	5	4	4	3	3	4	4
TOT																							
						(S)						(S)									(S)		
0- 1		11.0		9.0			8.5	9.0		12.5							10.0		4.0	7.5		4.0	
1- 2				12.0						9.0						9.0				2.5	6.5	8.0	
2- 3	8.5																3.0			1.5	5.5	3.0	5.0
3- 4	11.5										9.0				3.0	4.5			9.0	0.5	4.5		
4- 5		8.0						10.0	8.5	12.0						7.5			3.5	7.5	3.5	11.5	6.0
5- 6									10.5					2.0	12.5	0.0			9.5	6.0	2.5	6.0	
6- 7																	10.0		2.5	5.0	1.5	1.0	7.0
7- 8			11.5					7.5		11.0	8.0	7.5							11.0	4.0	0.5		
8- 9								11.5		7.5	11.5	8.0	4.0							3.0	7.0	9.5	8.0
9-10		12.0		9.5								8.5			2.5		6.5	3.0		2.0	6.0	4.5	0.5
10-11												9.0			7.0	11.0		9.0	5.0	1.0	5.0		9.0
11-12	10.5			11.0				9.0			7.0	9.5			12.0					7.5	4.0		1.5
12-13			8.5								10.5	10.0		5.0		6.5	3.0			6.5	2.5	7.5	10.0
13-14		9.5				10.0	8.5					10.5								5.5	1.5	2.5	2.5
14-15										9.5		11.0				2.0		2.5	7.0	4.5	0.5		11.0
15-16								10.0				11.5		1.0	2.0			8.5		3.5	7.5	11.0	3.5
16-17									9.0		9.5	12.0			6.5		10.0			2.5	6.0	6.0	12.0
17-18									11.5			12.5			11.5				1.0	1.5	5.0	0.5	4.5
18-19				10.0				7.5											9.5	0.5	4.0		
19-20	9.5							11.5								12.5	6.5	2.0		7.0	3.0	9.0	5.5
20-21			11.5							11.0	8.5								7.5	6.0	2.0	4.0	
21-22										8.0	11.5				1.5	8.0			3.0	5.0	1.0		6.5
22-23		10.5						9.0						4.0	6.0		3.0		12.0	4.0	7.5		
23-24															10.5	3.5				3.0	6.5	7.5	7.5
24-25										7.5								1.5		1.5	5.5	2.5	
25-26			8.5							10.5			3.0	0.5				7.0	5.5	0.5	4.5		8.5
26-27		8.0					8.5	10.0									10.0			7.5	3.5	11.0	0.5
27-28	8.0			10.5					7.5	9.5					1.0					6.0	2.5	5.5	9.5
28-29	11.5								10.0						5.5					5.0	1.5	0.5	1.5
29-30								7.5	12.5		10.0				10.0		6.5	0.5	8.0	4.0	0.5		10.5
30-31								11.5								9.5		6.5		3.0	7.0	9.0	2.5

	IS	IT	MM	OR	OX	OX	PV	PV	V364	V364	V375	V380	U	SU	WW	WZ	WZ	XX	ZZ	CW	CW	DK	DL
	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP
MAX	11.6	11.0	11.3	11.4	10.1	10.1	10.0	10.0	11.2	11.2	10.1	10.4	6.7	8.8	11.1	11.7	11.7	8.5	9.3	7.6	7.6	12.2	12.4
MIN	12.6	11.8	11.9	12.4	10.9	10.9	10.6	10.6	11.7	11.7	10.9	11.1	9.8	9.8	11.9	11.3	11.1	9.6	10.0	8.0	8.0	14.2	13.2
DUR	5	5	5	4	5	5	3	3	4	4	5	5	4	4	4	3	3	4	5	5	5	4	5
TOT													2										
						(S)		(S)		(S)							(S)				(S)		
0- 1	7.0				1.0								3.0		8.5	9.0	4.0					5.0	
1- 2			2.5			5.0					11.0	5.0		10.0		5.0	0.0					4.5	
2- 3	3.0		6.5											8.0		1.5	6.5		2.5		2.5	4.5	
3- 4			10.0	5.5					11.5		7.5			5.5		7.5	2.5			11.5		4.0	
4- 5				11.0			8.0		2.0		9.5			3.0		3.5	8.5	6.0	6.0			3.5	6.0
5- 6					0.5			6.0				6.5	3.0	0.5		9.5	4.5					3.0	
6- 7						4.5	2.0			9.5						5.5	0.5		9.0	5.0		3.0	
7- 8					12.0				4.0		8.5					1.5	6.5					2.5	12.0
8- 9			1.5	5.0												7.5	2.5					2.0	
9-10	12.0		5.0	11.0						11.5		8.5				3.5	8.5					2.0	3.0
10-11			9.0					12.0	6.0		7.0		2.5	10.5		9.5	4.5				7.0	1.5	
11-12	8.0					4.0	8.0			0.5				8.0		5.5	0.5	6.5				1.0	
12-13					11.5			6.0			1.5			5.5		1.5	6.5					1.0	9.5
13-14	4.0			4.5		2.0		8.0		6.0	10.0			3.5		8.0	3.0				0.5	0.5	
14-15			10.5							2.5				1.0	3.5	4.0	9.0			9.5		0.0	0.5
15-16	0.5		0.0										2.0			10.0	5.0						
16-17			4.0			3.5			10.0		4.5	3.0				6.0	1.0						
17-18		10.5	8.0		11.0			12.0		4.5		11.5				2.0	7.0		2.0	3.0			7.0
18-19			11.5	4.0			8.0									8.0	3.0	7.0			11.5		
19-20				10.0				6.0	12.0		3.5			11.0		4.0	9.0			5.5			
20-21						2.0				6.5		5.0	2.0	8.5		0.0	5.0						
21-22		8.0				3.0			1.0					6.0		6.0	1.0		9.0		5.0		
22-23	9.0				10.5						2.0			3.5		2.0	7.0						4.0
23-24			3.0	3.5						9.0				1.5	8.5	8.0	3.0		12.5				
24-25	5.5		6.5	9.5				12.0	3.5			6.5				4.0	9.5						
25-26		5.5	10.5				8.0				0.5		1.5			0.5	5.5	7.0		7.5			10.5
26-27	1.5					2.5	6.0		11.0	12.0						6.5	1.5						
27-28					10.0		2.0		5.5							2.5	7.5						1.5
28-29				3.5							8.5		11.0			8.5	3.5			1.0			
29-30		3.0		9.0							11.0			9.0		4.5	9.5				9.5		
30-31			1.5						7.5				1.0	6.5		0.5	5.5						8.0

all times in U.T.

	DV	EG	EK	GK	SS	TT	TW	TW	TX	U	RW	TW	V	Y	SW	WW	ZZ	AE	BR	CG	DK	KR	KV
	CEP	CEP	CEP	CEP	CET	CET	CET	CET	CET	CRB	CRB	CRB	CRT	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG
MAX	11.6	9.6	8.2	6.9	9.4	10.8	10.4	10.4	10.9	7.6	10.1	10.5	9.5	7.0	9.3	9.9	10.7	11.8	9.4	11.0	10.3	9.2	11.5
MIN	12.4	10.6	9.5	7.4	13.0	11.3	11.2	11.2	11.5	8.8	10.6	11.3	10.2	7.6	11.8	13.2	12.0	12.8	10.5	11.8	10.8	10.0	12.6
DUR	4	3	6	4	5	3	3	3	4	5	4	4	4	6	5	5	4	4	4	3	4	4	5
TOT					2				1						2								
									(S)														
0- 1		9.0				10.5	5.5											2.5		8.0	9.0		
1- 2		11.0		11.5		10.0	4.0		5.5					6.0			1.5	1.5	7.5		8.0	7.5	
2- 3		0.0		10.0	5.5	9.0	3.0	6.5				1.0				2.5	7.5	1.0		5.5	6.5	3.5	4.0
3- 4		2.5		8.5		8.5		5.5	11.0									0.0				5.0	
4- 5	0.5	4.5		7.0		8.0		4.5	5.0		1.5			6.0			5.0			3.0	3.5		
5- 6	4.5	6.5		5.5	4.5	7.0	7.0	3.0							7.5				7.5		2.0		0.0
6- 7	8.5	9.0		4.0		6.5	6.0		10.0				12.0				2.0			0.5	1.0		
7- 8	12.0	11.0		2.5		6.0	4.5		4.0					6.0			8.0			7.0		5.5	
8- 9		0.0	3.5	1.0	4.0	5.0	3.5	7.0													9.5	1.5	
9-10		2.0				4.5		6.0	9.5			2.5					5.5		7.0	4.5	8.0		
10-11		4.5				3.5		5.0	3.0	1.0				6.0								6.5	
11-12		6.5			3.5	3.0	7.5	3.5									2.5			1.5	5.0		
12-13	4.0	8.5				2.5	6.0		8.5		1.5	1.5				1.5	9.0			8.0	3.5	7.0	
13-14	7.5	10.5					5.0		2.0					6.0					7.0		2.5	3.5	
14-15	11.5				3.0		4.0										6.0			5.5	1.0		
15-16		2.0						6.5	7.5														
16-17		4.0		11.0				5.5						5.5			3.5			3.0	9.5		
17-18		6.0		9.5		10.5		4.0											7.0		8.0		
18-19		8.5		8.0		10.0	6.5	3.0	6.5								0.5			0.5	6.5	5.0	
19-20	3.0	10.5		6.5		9.5	5.5					3.0		5.5	0.5		7.0			6.5	5.0	1.5	5.0
20-21	7.0			5.0		8.5	4.5				1.5											3.5	
21-22	11.0	1.5	10.0	3.5		8.0	3.0	7.0	6.0								4.0		7.0	4.0	2.5		
22-23		4.0		2.0		7.5		6.0				1.5		5.5		0.0					1.0		1.0
23-24		6.0		0.5		6.5		4.5	11.0								1.5	8.5		1.5		7.0	
24-25		8.0				6.0	7.0	3.5	5.0								7.5	8.0		8.0	9.5	3.0	
25-26		10.5				5.5	6.0					0.0		5.5		8.0		7.0	7.0		8.0		
26-27	2.5	12.5				4.5	5.0		10.5								5.0	6.5		5.5	6.5		
27-28	6.5	1.5				4.0	3.5	7.5	4.0									5.5			5.0		
28-29	10.0	3.5				3.5		6.5			1.0			5.5	4.0		2.0	5.0		2.5	4.0		
29-30		6.0				2.5		5.0	9.5			3.0					8.0	4.0	7.0		2.5	5.0	
30-31		8.0	6.5	12.0				4.0	3.0									3.5		0.0	1.0	1.0	

	V346	V387	V388	V401	V456	V466	V466	V477	V477	V548	V704	1034	W	TT	TY	YY	FZ	Z	RZ	TW	UZ	UZ	AI
	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	DEL	DEL	DEL	DEL	DEL	DRA	DRA	DRA	DRA	DRA	DRA
MAX	11.8	11.5	9.7	10.8	10.8	10.8	10.8	8.3	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
MIN	13.6	12.3	10.3	11.6	11.9	11.6	11.6	9.2	8.7	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
DUR	5	3	3	4	3	4	4	4	4	5	4	4	7	5	4	4	3	4	3	5	5	5	4
TOT													2							1			
							(S)		(S)													(S)	
0- 1		7.0	8.0	1.0	7.5							7.0			3.5				8.5				2.0
1- 2			4.5	5.0	4.5	2.5					1.5	6.5						7.0					
2- 3		5.0	1.0		2.0						5.0	6.0			7.0	4.5			0.5		10.5		
3- 4	6.0							4.5	3.5		8.0	5.5			2.0				2.5				
4- 5		3.0		3.0							5.0							0.0	5.0			1.5	
5- 6						6.5				9.0	1.5	4.0						8.5	7.5	10.0			
6- 7		1.5							4.5		4.5	3.5			2.5	6.5	2.5						1.5
7- 8		8.0	5.0	1.0						4.5	8.0	3.0			7.0	1.5						8.0	6.5
8- 9			1.5	5.0	8.0	1.5						2.5		6.0				2.0	1.5	5.5			
9-10		6.0			5.0						1.0	2.0						5.5	10.5	4.0			
10-11					2.5		3.5	4.5			4.5	1.5				5.5	0.5		6.5				
11-12		4.5		3.0	0.0						8.0	1.0		3.0		0.5			9.0	1.0			
12-13						5.5						0.5							3.5		5.5		1.5
13-14		2.5	5.0						5.5		1.0				6.0			3.5	12.0	0.5			6.5
14-15	5.5	9.0	2.0	1.0						9.5	4.5					4.5			3.0				
15-16		0.5		5.0		0.5					8.0								5.5		11.5		
16-17		7.5			8.5						5.0							7.0	5.0	8.0			
17-18					5.5		2.5	5.5			1.0		4.0					1.5				2.5	
18-19		5.5		2.5	3.0						0.5	4.5			0.5	4.0							1.5
19-20			5.5	6.5	0.5	4.5					7.5				5.0								6.0
20-21		3.5	2.0															5.0	7.0	4.5		9.0	
21-22				0.5				7.0			1.0									7.0			
22-23		1.5		4.5							4.0					3.0					6.0	0.0	
23-24		8.5									7.5												
24-25							1.5	6.5										3.0	8.5	1.0			1.5
25-26	4.5	6.5	6.0	2.5	6.0					5.5	0.5				4.0	7.0			3.5	1.5	6.5		6.0
26-27			2.5	6.5	3.5	3.5					4.0					2.0			6.0				
27-28		4.5			1.0				7.5	1.0	7.5							6.0	2.0	8.5			
28-29				0.5			5.5											0.5	10.5				
29-30		3.0		4.5							0.5					6.5				0.0			
30-31											4.0					1.5			2.5			4.0	1.0

	BH	S	TZ	YY	YY	RW	SX	TX	WW	AF	AL	RX	SZ	TT	TU	UX	CC	CT	DI	HS	HS	LT	V728
	DRA	EQU	ERI	ERI	ERI	GEM	GEM	GEM	GEM	GEM	GEM	HER	HER	HER	HER	HER	HER	HER	HER	HER	HER	HER	HER
MAX	8.0	8.0	9.8	8.4	8.4	9.6	10.8	10.0	9.8	10.2	9.3	7.1	10.2	9.7	10.6	8.9	9.5	9.9	8.4	8.5	8.5	10.7	10.9
MIN	8.6	10.0	12.6	9.1	9.1	11.6	11.7	11.9	10.5	11.3	10.0	7.7	12.0	10.4	13.4	9.8	12.8	11.2	9.1	9.0	9.0	11.1	11.5
DUR	5	5	4	3	3	5	5	6	4	4	4	5	4	4	5	5	4	4	6	4	4	4	3
TOT			1			1									1								
					(S)																(S)		
0- 1									7.5		9.0												
1- 2					7.5	10.5							3.0										
2- 3			6.0		6.5		12.0									4.5				4.0			5.0
3- 4					5.5										2.5						0.5		3.5
4- 5					5.0	7.0				8.5								1.5					2.0
5- 6							5.5		6.5				5.5				1.0						1.0
6- 7				7.0				12.0				3.5	1.0	3.0					3.5				
7- 8		4.5	11.5	6.0							8.0			0.5						2.0			
8- 9	6.0			5.0																		1.0	
9-10							8.0			8.0												3.0	
10-11	2.0				7.5				5.5				3.0										5.0
11-12					6.5				11.0		12.5										5.0		4.0
12-13					5.5			11.0							4.0								2.5
13-14					5.0		10.5									0.5							1.0
14-15		1.5								7.5	7.0		5.5										
15-16			7.0	7.0				6.5				1.0	1.0										
16-17				6.0					10.0					3.5		3.0					3.0		
17-18	8.0			5.0																			
18-19											11.5												5.5
19-20	4.0				7.5					7.0			3.0										4.0
20-21			12.0		6.5		6.5											3.0		4.5			3.0
21-22					5.5	12.0			8.5		6.0										1.0	1.0	1.5
22-23					5.0							3.5										3.0	0.0
23-24													5.5										
24-25				7.0		8.5	9.0			6.0			1.0				2.5						
25-26				6.0						12.0	10.5										2.5		
26-27				5.5				11.0	7.5														
27-28				4.5		5.5								2.5					6.0				4.5
28-29	6.0		7.5		7.5		11.5						3.0	0.0	1.0								3.0
29-30				6.5				6.5		5.5								1.5			5.5		1.5
30-31	1.5			5.5						11.5						1.5				0.0			0.5



	68	WY	WY	AV	DI	DK	V470	V470	SW	SW	VX	AR	AW	CM	CO	CO	DG	GX	MZ	MZ	Y	UU	UV
	HER	HYA	HYA	HYA	HYA	HYA	HYA	HYA	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LEO	LEO	LEO
MAX	4.7	10.3	10.3	10.2	11.0	10.5	13.0	13.0	9.2	9.2	10.9	7.3	10.6	8.5	10.5	10.5	10.8	10.1	11.2	11.2	9.5	11.4	9.5
MIN	5.4	11.1	11.1	10.6	12.0	11.0	13.5	13.5	10.0	10.0	12.3	8.2	11.3	9.5	11.0	11.0	12.0	10.4	12.1	12.1	12.7	12.7	10.2
DUR	5	3	3	4	4	4	3	3	3	3	4	6	5	4	5	5	4	6	4	4	5	4	3
TOT														2									
			(S)				(S)		(S)						(S)				(S)				
0- 1		8.0		10.5					0.5	4.5		5.0							1.5				
1- 2			10.0		11.5				7.5	3.5						9.0	10.0				11.5	10.5	
2- 3		11.5		12.0					6.5	3.0		4.5	0.5	8.0	4.0								9.5
3- 4						11.5			5.5	2.0			4.0						5.5				
4- 5						12.5			5.0	1.0		4.0	7.5			11.0							
5- 6		8.5							4.0	0.0			10.5		6.0								9.5
6- 7			10.0		9.5				3.0	7.0	0.5	4.0				0.0			9.0		11.5		
7- 8		12.0							2.0	6.0	2.0			3.5									
8- 9							9.5		1.0	5.0	4.0	3.5			8.0	1.0							9.5
9-10					11.5			9.0	0.5	4.0	5.5					2.0							
10-11	0.0	8.5						9.0	7.0	3.0	7.5	3.0	0.5	8.5			6.0	2.0					
11-12			10.5	9.0					8.5	6.0	2.5	9.5		4.0		10.0				2.0		12.5	9.5
12-13	1.5	12.0							8.5	5.0	1.5		2.5	7.5			4.0	11.0					
13-14				10.5					8.0	4.5	0.5			10.5									
14-15	2.5									3.5	7.5		2.0		12.0					6.0			10.0
15-16		9.0		11.5		11.5			2.5	6.5				4.0		6.0							
16-17	4.0		10.5						1.5	5.5		1.5			1.0		10.5						
17-18		12.5			11.0				0.5	4.5										9.5			10.0
18-19									7.5	3.5		1.5	0.5	9.0		8.0					8.0		
19-20									6.5	2.5			4.0		3.0		2.0		0.5				
20-21		9.0							5.5	2.0		1.0	7.5										10.0
21-22			11.0						5.0	1.0	1.5		10.5			10.0	7.0						
22-23									4.0	0.0	3.0	0.5			5.0				4.5				
23-24									3.0	7.0	5.0			4.5			11.5				9.5		10.0
24-25									2.0	6.0	7.0	0.0				12.0							
25-26		9.5			11.0		9.5		1.0	5.0	8.5				7.5				8.0				
26-27			11.0	10.0				9.0	0.0	4.0	10.5		0.5	9.5		1.0							10.0
27-28						11.5	9.0		7.0	3.0			4.0										
28-29				11.0				8.5	6.0	2.5			7.5	0.0	9.5			12.0		11.0			
29-30			8.0				8.5		5.0	1.5			10.5			3.5	3.5						10.0
30-31		9.5		12.5				8.0	4.5	0.5							2.5			1.0			

all times in U.T.

	VZ	WZ	XZ	RR	SS	RY	UZ	EW	FL	RU	RU	RW	AT	BB	BO	EP	U	SX	V501	V508	V839	1010	1010
	LEO	LEO	LEO	LEP	LIB	LYN	LYR	LYR	LYR	MON	MON	MON	MON	MON	MON	MON	OPH	OPH	OPH	OPH	OPH	OPH	OPH
MAX	10.6	11.3	10.6	10.2	10.4	11.9	9.8	11.2	8.7	10.6	10.6	9.1	10.6	10.6	10.8	10.5	5.8	10.5	10.9	10.1	8.8	6.2	6.2
MIN	11.7	12.0	11.2	10.9	11.3	13.3	11.0	13.6	9.5	11.3	11.3	11.9	11.4	11.3	12.1	11.1	6.5	11.2	11.8	10.7	9.4	7.0	7.0
DUR	4	5	3	4	6	4	5	5	4	5	5	5	5	4	5	5	5	5	4	3	3	4	4
TOT												1			1								
											(S)												(S)
0- 1		10.0					3.0		4.0			9.0		12.0									
1- 2																					4.0		
2- 3							0.0					6.5											
3- 4					0.5	11.5								10.5									
4- 5				11.5												7.0				0.0	1.0		
5- 6				9.5												10.5				1.0			
6- 7				7.5		8.5								8.5					4.5	2.0	2.0		
7- 8		11.0																	3.5	2.5			
8- 9			11.5												8.5				3.0	3.5	3.0		
9-10	10.0		11.0																2.0	4.5			
10-11	12.5		10.5																1.5		4.0		
11-12			9.5						1.5					11.5									
12-13			9.0													8.0							
13-14									5.5							11.5					1.0		1.5
14-15		12.0								7.5				10.0						0.0		1.5	
15-16				11.0			6.0				10.5								1.0	2.0		1.5	
16-17				9.0		9.5		5.5											2.0		1.0		
17-18				7.0			3.5							8.5					2.5	3.0		1.0	
18-19								4.5											3.5		0.5		
19-20						6.5	0.5					10.0			11.5				4.5	4.0		0.5	
20-21								3.0								9.0						0.5	
21-22	10.0									11.5		8.0				12.5							0.0
22-23	12.0							2.0						11.5							0.5		
23-24																							
24-25		8.5						0.5	3.0											0.0	2.0		
25-26													8.0	10.0						1.0			
26-27				10.5		10.5			7.0											2.0	3.0		
27-28				8.5									8.5							2.5			
28-29			11.5	6.5										8.0	9.0	9.5				3.5	4.0		
29-30			11.0			7.5							9.0							4.5			
30-31			10.0														0.5	1.0					

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

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

all times in U.T.

	UZ	AV	U	V505	1968	RS	AO	CC	CC	Y	RW	RZ	TY	WY	AM	AQ	CT	EQ	EQ	HU	V	X	RS	
	PUP	PUP	SGE	SGR	SGR	SER	SER	SER	SER	SEX	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TRI	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	10.4	12.0	10.2	10.3	10.3	6.0	10.9	8.9	10.3	
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	12.9	11.5	11.0	11.0	6.8	11.9	12.0	11.0	
DUR	4	3	6	5	4	4	4	4	4	3	4	3	2	4	5	5	5	3	3	6	4	4	4	
TOT			2								1													
	(S)								(S)											(S)				
0- 1		10.0												7.0	7.5			2.5	6.5		12.0	7.5		
1- 2					0.5						6.0	6.5					12.0	3.0	7.0		2.0	7.0	11.5	
2- 3										10.0				9.0	8.5	4.0		3.5	7.5		6.0	6.0		
3- 4				0.5				0.5				8.0				9.0	12.0	4.0			10.0	5.5	9.5	
4- 5	12.0							1.5				4.0		11.0	9.5			4.5			0.5	4.5		
5- 6							0.0	2.0									12.0	5.5			4.5	4.0	7.0	
6- 7					2.0							6.0			10.5			6.0			8.5	3.5		
7- 8			4.5											5.5			12.0	6.5	2.5			2.5	5.0	
8- 9	11.5											8.0	3.5		11.5	6.0		7.0	3.0		2.5	2.0		
9-10												4.0	5.5	7.0		11.0	12.0	7.5	3.5		6.5	1.5	3.0	
10-11		10.0		3.0	1.0							10.0	7.5						4.0		11.0	0.5		
11-12									0.5			5.5	9.0	9.0			12.0		4.5		1.0		0.5	
12-13	10.5						1.0		1.5		7.5		11.0						5.5		5.0			
13-14						3.5			2.0			7.5		11.0			12.0		6.0		9.0			
14-15												3.5				8.0		2.5	6.5					
15-16					2.5							9.5					12.0	3.0	7.0		3.0			
16-17	10.0			1.0		3.0						5.5		5.5				3.5	7.5		7.0			
17-18		9.0															12.0	4.0	8.0		11.5			
18-19												7.5		7.5					4.5			1.5		
19-20					1.0	3.0	2.0	0.5				3.5				4.5	12.0	5.0			5.5			
20-21	9.5	10.0							1.5			9.0		9.5		10.0	4.0	6.0			9.5			
21-22									2.0			5.0					12.0	6.5						
22-23						2.5								4.0	11.0			4.0	7.0	3.0	3.5	3.5	11.5	
23-24				3.0						9.5	9.5	7.0	5.5				12.0	7.5	3.5		8.0			
24-25	9.0		2.5		2.5									7.5			4.0	8.0	4.0	5.0	12.0		9.5	
25-26						2.5						9.0	9.5	5.5		6.5	12.0		4.5		2.0			
26-27							2.5				4.0	5.0	11.0			11.5	4.0		5.0	6.0	6.0		7.0	
27-28		9.0							0.5					7.5			12.0		5.5		10.0	12.5		
28-29	8.0				1.5	2.0			1.5			7.0					4.0		6.5	7.5	0.0	11.5	5.0	
29-30				1.0					2.0					9.5			12.0	3.0	7.0		4.0	11.0		
30-31		10.5										8.5				3.0	4.5	3.5	7.5	9.0	8.5	10.5	3.0	

	RV	W	TX	TY	TY	UX	UX	VV	XZ	ZZ	AF	W	RU	AG	Z	AW	AX	AY	BE	BO	BS	BT	BU
	TRI	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMI	UMI	VIR	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL
MAX	11.4	9.1	6.8	11.7	11.7	12.7	12.7	10.1	10.1	9.8	10.8	8.6	10.7	8.8	7.4	10.8	11.0	11.0	9.9	10.4	11.0	11.8	10.6
MIN	12.5	9.9	8.9	12.4	12.4	13.8	13.8	11.0	11.7	11.2	11.6	9.7	11.4	9.4	9.2	11.9	12.5	12.9	11.4	13.3	11.5	12.5	11.4
DUR	4	3	6	3	3	1	1	3	3	4	8	7	4	4	6	5	5	4	5	4	3	3	3
TOT																							
				(S)																			
0- 1		6.5		7.5				1.5	11.5													0.5	6.0
1- 2	7.0	6.5		0.5		1.5					6.0		9.0	0.5									
2- 3	1.5	6.5		2.0			1.0							2.0									
3- 4		6.5			8.0	0.5		5.5	11.0				2.0	3.0	12.5				2.5				2.5
4- 5	7.5	6.5			1.0		0.0							4.0		3.0	3.5						6.0
5- 6	1.5	6.5						7.0						5.5							6.0	2.5	
6- 7		6.5		8.5								11.5	6.5						5.0		5.0	6.0	
7- 8	8.0	6.5		1.5				8.5					8.0								4.0		2.0
8- 9	2.0	6.5							8.5	3.5	3.5	4.5	9.0			4.0		5.5			2.5		5.5
9-10		6.5			0.0		3.0	10.0					10.0		0.5				7.5		1.5		
10-11	8.0	6.5			1.5	2.5				11.0			11.5								0.5		
11-12	2.5	6.5					2.0	11.5															1.5
12-13		6.5		0.5		1.5							1.0	12.5		5.0							5.0
13-14	8.5	6.5		2.0			1.0				9.5	7.0	2.5			0.0		1.5				2.5	
14-15	2.5	6.5			8.0	1.0		5.5	11.0					3.5								6.0	
15-16		6.5			1.0		0.5			1.0				5.0								6.0	1.5
16-17	9.0	6.5						7.0						6.0		5.5	0.5			7.0	5.0		4.5
17-18	3.0	6.5		8.0						8.5				7.0		1.0			1.5		3.5		8.0
18-19		6.5		1.0				8.5					9.5	8.5			1.0			5.5	2.5		
19-20	9.5	7.0							8.5					9.5								1.5	1.0
20-21	3.5	7.0			8.5			9.5					2.5	11.0		6.5	1.5	7.0	4.0	4.5	0.5		4.0
21-22		7.0			1.5	2.5								12.0	12.5	2.0						2.0	7.5
22-23	9.5	7.0					2.5	11.0						0.5			2.0				3.0		5.5
23-24	3.5	7.0		0.5		2.0							12.0	2.0					6.5				0.5
24-25		7.0		2.0			1.5			6.0				3.0		7.0	2.5			2.0			4.0
25-26	10.0	7.0				1.0		5.0	11.0				5.0	4.0		2.5		3.0			6.0		7.0
26-27	4.0	7.0			0.5		0.5							5.5	5.0		3.0			0.5	5.0		
27-28		7.0			2.0	0.5		6.5						6.5							3.5		0.0
28-29	10.5	7.0		8.0										7.5			4.0				2.5		3.5
29-30	4.5	7.0		1.0				8.0		4.5				9.0		3.5					1.5	2.0	6.5
30-31		7.0	8.5						8.5				7.5	10.0	12.0		4.5				0.0	5.0	

	CD	V495	V495
	VUL	VUL	VUL
MAX	11.5	9.6	9.6
MIN	12.6	10.0	10.0
DUR	4	4	4
TOT			(S)
0- 1	4.0		2.5
1- 2			
2- 3	5.5		
3- 4			
4- 5	6.5	3.0	
5- 6			0.5
6- 7	7.5		
7- 8	0.0		
8- 9			7.0
9-10	1.5	1.0	
10-11			
11-12	2.5		
12-13			
13-14	4.0		4.5
14-15			
15-16	5.0		
16-17			
17-18	6.5	5.0	
18-19			2.5
19-20	7.5		
20-21			
21-22			
22-23	1.0	3.0	
23-24			0.0
24-25	2.5		
25-26			
26-27	3.5		6.5
27-28		0.5	
28-29	5.0		
29-30			
30-31	6.0		