

	R	UU	U	V	W	W	RV	Y	SW	WW	ZZ	BR	CG	V346	V387	V477	W	TT	TY	YY	FZ	Z	TW	UZ	UZ	
	CMA	CMA	CRB	CRT	CRV	CRV	CRV	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	DEL	DEL	DEL	DEL	DEL	DRA	DRA	DRA	DRA	
MAX	6.2	10.0	7.6	9.5	10.6	10.6	9.0	7.0	9.3	9.9	10.7	9.4	11.0	11.8	11.5	8.3	9.4	10.6	9.6	11	10.2	10.8	7.8	9.9	9.9	
MIN	6.8	12.5	8.8	10.2	11.2	11.2	10.0	7.6	11.8	13.2	12.0	10.5	11.8	13.6	12.3	9.2	12.7	12.5	10.8	12	11.3	13.6	9.5	10.7	10.7	
DUR	4	5	5	4	4	4	4	6	5	5	4	4	3	5	3	4	7	5	4	4	3	4	5	5	5	
						(S)		(S)																	(S)	
0- 1						8.5												2.0							1.5	
1- 2					8.0		8.5					1.5	3.5													
2- 3		4.5				7.5				2.5	5.0						1.5					8.5	1.5			
3- 4				8.0	6.5	11.5					11.0															8.0
4- 5		8.5			10.5		8.5				2.0				3.5											
5- 6	3.0		9.0	10.5		10.0													2.0	2.5		1.5				
6- 7	6.0				9.0							2.5		1.5								10.0				
7- 8	9.5					8.5	8.0		11.5		5.5															
8- 9					7.5						11.5										1.0				5.5	
9-10					11.5	7.0					3.0									1.5		3.5				
10-11				8.5		11.0	8.0																11.5			
11-12					10.0							3.5		4.5					1.0					11.5		
12-13			11.0		9.5			1.5	1.5	6.0		6.0	1.0	3.0	1.0											
13-14				9.0									6.0	1.0	3.0					1.0		5.0	7.0		3.0	
14-15	5.0					8.0					3.5															
15-16	8.0	4.5			7.5										1.0						2.0					
16-17	11.5				11.5						1.0	5.0											2.5		9.0	
17-18		8.5		9.0		10.5					7.0	6.0										7.0				
18-19					10.0							2.5		6.0												
19-20			11.5		9.0						4.0				2.0											
20-21					8.5										4.0					4.0						
21-22								5.0		1.5	6.0	6.0										8.5		6.5		
22-23	4.0					11.5				0.5					2.0						3.0					
23-24	7.0				11.0							3.5	2.0					1.0								
24-25	10.5		9.5		10.0						5.0								3.5	3.0		1.5				
25-26					9.5							6.0	1.0									10.5				
26-27						9.0					2.0					3.0	2.0				1.0				4.0	
27-28															5.0								8.0			
28-29		4.5						6.0					4.5							2.5		3.5				
29-30						11.5					5.5	6.0			3.0										10.0	
30-31		8.5			10.5						12.0		2.0						2.0				3.0			

	AQ	Z	RT	RV	ST	XZ	beta	Y	V505	RW	AC	AM	V	X	RV	W	TX	VV	XZ	RU	AG	BU
	PEG	PER	PER	PER	PER	PER	PER	PSC	SGR	TAU	TAU	TAU	TRI	TRI	TRI	UMA	UMA	UMA	UMA	UMI	VIR	VUL
MAX	10.3	9.9	10.6	10.3	9.7	10.6	2.2	9.0	6.4	8.0	10.5	10.4	10.9	8.9	11.4	9.1	6.8	10.1	10.1	10.7	8.8	10.6
MIN	13.0	12.4	12.0	12.7	13.2	12.7	3.5	12.0	7.6	12.5	12.3	12.3	11.9	12.0	12.5	9.9	8.9	11.0	11.7	11.4	9.4	11.4
DUR	10	6	4	8	5	4	8	7	5	4	6	4	4	4	4	3	6	3	3	4	4	3
0- 1		8.5												0.5	0.5	3.0		3.5	11.0	7.5	6.0	
1- 2			10.5	9.0								4.5	0.5			3.0	6.0			9.0		0.5
2- 3			7.0			1.0	8.0			1.0			4.5		6.5	3.0		5.0		10.0		3.5
3- 4		10.0	3.5	8.5	7.0	4.5						6.0	8.5		0.5	3.0				11.0	11.0	
4- 5	2.0					8.5					1.0					3.0	7.5	6.5	3.0			
5- 6				8.0			5.0					7.0	2.5		7.0	3.0			8.0	1.0	9.5	
6- 7		11.5									2.0		7.0		1.0	3.0		8.0		2.0		3.0
7- 8			9.0	7.5								8.0				3.0	9.0	0.5		3.5	7.5	
8- 9			5.5				1.5				3.0		1.0		7.0	3.0		9.5		4.5		
9-10			2.0	6.5								9.0	5.0		1.5	3.0		2.0		6.0	6.0	
10-11						2.5		5.0		8.5	4.0		9.0			3.0	10.5	11.0	5.5	7.0		3.0
11-12				6.0	5.5	6.0						10.0			7.5	3.0		3.5	11.0	8.0		
12-13			11.5			10.0					5.0		3.0		1.5	3.0				9.5	11.0	
13-14			8.0	5.5						3.0		11.0	7.5			3.0		5.0		10.5		
14-15			4.5								6.0				8.0	3.0					9.5	2.5
15-16	4.5		0.5	5.0									1.5		2.0	3.5		6.5	3.0	0.5		
16-17											7.0		5.5			3.5			8.0	1.5	7.5	
17-18				4.0		0.5							9.5		8.5	3.5		8.0		3.0		
18-19			10.5			4.0					8.0				2.5	3.5		0.5		4.0	6.0	2.0
19-20			6.5	3.5	4.5	7.5							4.0			3.5		9.5		5.0		
20-21			3.0			11.5			1.5		9.5		8.0	10.0	8.5	3.5		2.0		6.5		
21-22				3.0						10.0				9.5	2.5	3.5		11.0	5.5	7.5	11.0	
22-23							9.5				10.5		2.0	8.5		3.5		3.5	11.0	9.0		1.5
23-24				2.0									6.0	8.0	9.0	3.5				10.0	9.0	5.0
24-25			9.0		11.5					4.5	11.5		10.0	7.5	3.0	3.5		5.0		11.0		
25-26			5.5	1.5		2.0	6.5	6.5						6.5		3.5					7.5	
26-27			1.5			5.5							4.5	6.0	9.5	3.5		6.5	3.0	1.0		1.0
27-28				1.0	3.0	9.0							8.5	5.0	3.5	3.5			8.0	2.0		4.5
28-29							3.5							4.5		3.5		8.0		3.5		
29-30			11.5	0.5				1.0					2.5	4.0	9.5	3.5		0.5		4.5		
30-31			7.5										6.5	3.0	4.0	3.5		9.5		5.5	11.0	1.0

	W	RV	SW	ZZ	CG	V346	V387	TY	YY	Z	TW	UZ	UZ	AI	YY	YY	RW	SZ	TU	CT	AV	SW	VX	CM	Y	
	CRV	CRV	CYG	CYG	CYG	CYG	CYG	DEL	DEL	DRA	DRA	DRA	DRA	DRA	ERI	ERI	GEM	HER	HER	HER	HYA	LAC	LAC	LAC	LEO	
MAX	10.6	9.0	9.3	10.7	11.0	11.8	11.5	9.6	11	10.8	7.8	9.9	9.9	7.2	8.4	8.4	9.6	10.2	10.6	9.9	10.2	9.2	10.9	8.5	9.5	
MIN	11.2	10.0	11.8	12.0	11.8	13.6	12.3	10.8	12	13.6	9.5	10.7	10.7	8.2	9.1	9.1	11.6	12.0	13.4	11.2	10.6	10.0	12.3	9.5	12.7	
DUR	4	4	5	4	3	5	3	4	4	4	5	5	5	4	3	3	5	4	5	4	4	3	4	4	5	
	(S)												(S)			(S)										
0- 1	10.0	6.0		3.0			1.5						1.5			4.0										
1- 2	4.5			9.0						5.0					7.0	3.0	10.0				5.0					
2- 3	8.5														6.0	2.0				11.0		5.0	2.5			
3- 4		5.5				1.5						7.5			5.0	1.5		9.5	9.0		6.0	4.0	4.0		8.5	
4- 5	7.0													4.5	4.5		6.5					3.0		5.0		
5- 6	11.0			3.5				1.0	0.5	7.0				9.0	3.5						7.5	2.0			1.0	
6- 7	5.5			9.5	0.5		11.0								2.5	6.5						1.0				
7- 8	9.5			1.0			2.5								2.0	5.5	3.5				8.5			10.0		
8- 9		11.0											5.0		1.0	5.0									10.0	
9-10	8.0									8.5						4.0					10.0					
10-11				4.0	11.0						8.5			4.5	7.0	3.0						2.0	5.0		2.5	
11-12	6.5	11.0		10.5	2.0								11.5	9.0	6.0	2.0				9.0	11.0	4.5				
12-13	10.5			1.5						2.0					5.0	1.5		9.5	10.5		3.5	3.5		5.5		
13-14			1.5							10.5	4.0	2.5			4.5							2.5				
14-15	9.0	10.5				1.0	3.5								3.5	7.5					4.5	1.5				
15-16															2.5	6.5									4.0	
16-17	7.5			11.0	3.0		1.5			3.5		8.5		4.0	2.0	5.5					6.0		1.5			
17-18		10.5		2.0										9.0	1.0	5.0							3.5	1.0		
18-19	6.5														8.0	4.0					7.0	5.5	5.0			
19-20	10.0														7.0	3.0						4.5				
20-21		10.0								5.0					6.0	2.5						8.0	4.0		6.0	5.5
21-22	9.0						4.5						6.0		5.5	1.5	11.5	9.5				3.0				
22-23				3.0										4.0	4.5						9.5	2.0				
23-24	7.5	10.0		9.0	1.5		3.0							9.0	3.5	7.5						1.0				
24-25								2.5	1.5	7.0	9.5				2.5	6.5	8.0				10.5					
25-26	6.0						1.0								2.0	5.5					3.0			1.5	6.5	
26-27	10.0	9.5										3.5			1.0	5.0						6.0				
27-28				3.5							5.0				8.0	4.0	5.0			11.0	4.0	5.0				

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	V	X	RV	W	TX	VV	XZ	RU	AG	BU
	TRI	TRI	TRI	UMA	UMA	UMA	UMA	UMI	VIR	VUL
MAX	10.9	8.9	11.4	9.1	6.8	10.1	10.1	10.7	8.8	10.6
MIN	11.9	12.0	12.5	9.9	8.9	11.0	11.7	11.4	9.4	11.4
DUR	4	4	4	3	6	3	3	4	4	3

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

	RT	TW	WZ	XZ	AB	V346	WW	WW	ZZ	Y	SV	AL	RZ	TV	AB	U	XX	EG	R	UU	U	V	W	W	RV
	AND	AND	AND	AND	AND	AQL	AUR	AUR	BOO	CAM	CAM	CAM	CAS	CAS	CAS	CEP	CEP	CEP	CMA	CMA	CRB	CRT	CRV	CRV	CRV
MAX	9.3	8.8	11.6	10.0	9.3	9.0	5.7	5.7	6.8	10.6	8.6	10.5	6.4	7.3	10.2	6.7	8.5	9.6	6.2	10.0	7.6	9.5	10.6	10.6	9.0
MIN	10.2	11.0	12.6	13.0	10.2	10.4	6.4	6.4	7.6	12.4	9.4	11.3	7.8	8.4	12.2	9.8	9.6	10.6	6.8	12.5	8.8	10.2	11.2	11.2	10.0
DUR	3	11	4	3	3	4	5	5	5	10	3	5	4	4	4	4	4	3	4	5	5	4	4	4	4
								(S)																	(S)
0- 1							9.5	6.0						9.5	6.5			2.5					4.0	8.5	
1- 2	2.0			6.0							2.0							5.0			4.5	7.5	3.0	9.5	
2- 3	8.0		3.5								6.5	6.0		5.0				7.0					2.5	7.0	3.5
3- 4													3.0				6.0	9.0			7.0	6.5			
4- 5	5.5						4.0						7.5		9.0								10.0	5.5	9.0
5- 6									6.0		5.5					10.5			4.5		10.0	5.0	9.5		
6- 7	2.5										10.0	5.5						2.5	8.0		2.5	9.0	4.0		
7- 8	9.0					10.0									3.0			4.5				3.5	8.0	9.0	
8- 9											4.5							7.0		4.5	5.0	7.5			
9-10	6.0	3.5	2.5				5.5			4.0	9.0		2.5					9.0						6.5	
10-11									5.5		5.0	7.0				10.0	6.0					7.5	6.0		8.5
11-12	3.5		4.5								4.0			6.5	5.0								10.0	5.0	
12-13	9.5			2.5							8.5							2.5			10.0	4.5	9.0		
13-14														2.0				4.5	3.5		3.0	8.5	4.0	8.5	
14-15	7.0						6.5				3.0	5.0						6.5	6.5				7.5		
15-16									5.5		7.5		1.5		7.5	9.5		8.5			10.0	5.5	7.0		
16-17	4.0												6.5											6.5	8.0
17-18											2.0						6.5					8.0	5.5	10.5	
18-19			3.5								6.5	4.5						2.0					9.5	5.0	
19-20	7.5				4.5		8.0			2.0					10.0			4.0					4.0	9.0	8.0
20-21			5.5	6.0	4.5				5.5					8.0		9.5		6.5				3.5	8.0		
21-22	5.0				4.0						6.0							8.5	2.0	4.5				7.5	
22-23					4.0					9.5		4.0	6.0	3.5	3.5				5.5		7.5	6.0	6.5		7.5
23-24	2.0				4.0		2.5												9.0	8.5				6.0	
24-25	8.5			8.0	4.0		9.0				5.0						7.0	2.0				8.5	5.5	10.0	
25-26			2.5		4.0				5.0		9.5					9.0		4.0					9.0	4.5	7.5
26-27	5.5				3.5							3.5			6.0			6.0						8.5	
27-28			4.5		3.5						4.0							8.0				4.0	8.0		
28-29	3.0				3.5		4.0				8.5		5.0											7.0	7.0
29-30	9.0		6.5		3.5		10.0						10.0	9.5							5.5	6.5	6.5		
30-31					3.5				5.0		3.5	3.5			8.5	8.5			4.5				10.5	5.5	

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	RV	W	VV	XZ	RU	AG	BU
	TRI	UMA	UMA	UMA	UMI	VIR	VUL
MAX	11.4	9.1	10.1	10.1	10.7	8.8	10.6
MIN	12.5	9.9	11.0	11.7	11.4	9.4	11.4
DUR	4	3	3	3	4	4	3

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

	RT	WZ	XZ	AB	OO	V343	V346	WW	WW	ZZ	Y	SV	AL	RZ	TV	AB	U	XX	EG	SS	R	UU	U	V	W
	AND	AND	AND	AND	AQL	AQL	AQL	AUR	AUR	BOO	CAM	CAM	CAM	CAS	CAS	CAS	CEP	CEP	CEP	CET	CMA	CMA	CRB	CRT	CRV
MAX	9.3	11.6	10.0	9.3	9.2	10.6	9.0	5.7	5.7	6.8	10.6	8.6	10.5	6.4	7.3	10.2	6.7	8.5	9.6	9.4	6.2	10.0	7.6	9.5	10.6
MIN	10.2	12.6	13.0	10.2	10.1	12.3	10.4	6.4	6.4	7.6	12.4	9.4	11.3	7.8	8.4	12.2	9.8	9.6	10.6	13.0	6.8	12.5	8.8	10.2	11.2
DUR	3	4	3	3	3	4	4	5	5	5	10	3	5	4	4	4	4	4	3	5	4	5	5	4	4
									(S)																
0- 1	6.5		2.5									8.0			5.0			7.0	3.5				9.0	5.0	
1- 2											7.5								6.0						9.0
2- 3	3.5					7.0		5.0				2.5							8.0						3.5
3- 4												7.0	3.0	4.5								4.5		4.5	7.5
4- 5			4.5							4.5				9.5			8.5								
5- 6	7.0																						3.0	7.0	6.0
6- 7												6.0				4.5			3.5						
7- 8	4.5						9.5	6.5					2.5				7.5	5.5		3.0				9.5	4.5
8- 9																		8.0						2.5	8.5
9-10										4.5		5.5		4.0	6.5		8.0								3.0
10-11	8.0	2.5										10.0		9.0		7.0								5.0	7.0
11-12											5.5		2.5												
12-13	5.5							7.5				4.5							3.5					7.5	5.5
13-14				10.0		8.5						9.0							5.5						9.5
14-15	2.5			9.5						4.5						9.5	7.5	7.5	7.5						4.0
15-16	8.5			9.5								3.5		3.5					9.5					3.0	8.0
16-17				9.5				2.5				8.0	10.0	8.0							5.5	4.5			3.0
17-18	6.0			9.5			8.5	8.5								3.0								5.5	6.5
18-19				9.5								3.0			8.0				3.0	3.5					
19-20	3.5	3.5	2.5							4.0		7.5					7.5		5.0					8.0	5.5
20-21	9.5												9.5		3.5				7.5						9.0
21-22								3.5			3.5			3.0		5.5		8.0	9.5	2.5					4.0
22-23	7.0											6.5		7.5									9.0	3.5	8.0
23-24			4.5		8.5																				2.5
24-25	4.0				8.5					4.0			9.0				7.0		3.0		4.0			6.0	6.5
25-26					9.0							5.5				7.5			5.0						
26-27		2.5			9.5			5.0											7.0					8.5	5.0
27-28	7.5		6.0		9.5									2.5	9.5				9.5						9.0
28-29		4.5										5.0	9.0	7.0				8.0							3.5
29-30	5.0									3.5		9.5			5.0		6.5					4.5	7.0	4.0	7.5

	W	RV	SW	WW	ZZ	BR	CG	V346	V387	V477	W	TY	YY	FZ	Z	TW	UZ	UZ	AI	YY	YY	RW	SZ	TU	CT
	CRV	CRV	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	DEL	DEL	DEL	DEL	DRA	DRA	DRA	DRA	DRA	ERI	ERI	GEM	HER	HER	HER
MAX	10.6	9.0	9.3	9.9	10.7	9.4	11.0	11.8	11.5	8.3	9.4	9.6	11	10.2	10.8	7.8	9.9	9.9	7.2	8.4	8.4	9.6	10.2	10.6	9.9
MIN	11.2	10.0	11.8	13.2	12.0	10.5	11.8	13.6	12.3	9.2	12.7	10.8	12	11.3	13.6	9.5	10.7	10.7	8.2	9.1	9.1	11.6	12.0	13.4	11.2
DUR	4	4	5	5	4	4	3	5	3	4	7	4	4	3	4	5	5	5	4	3	3	5	4	5	4
	(s)																	(s)			(s)				
0- 1	9.5	7.0			5.0														8.0						
1- 2	4.0						7.5		6.5									9.5		3.0					
2- 3	8.0											8.0													9.5
3- 4	3.0	6.5			8.5	5.0					9.0			10.0	7.0								7.0	7.5	
4- 5	6.5		9.0																						4.5
5- 6					5.5														3.0						
6- 7	5.5	6.0					8.5		9.5								6.5		8.0		2.5				
7- 8	9.0					5.0								9.0									9.5		
8- 9	4.0			8.0	9.0																		5.0		
9-10	8.0	6.0																							
10-11	2.5				6.5							9.0				7.5				3.0					
11-12	6.5					5.0	10.0											4.0	3.0			4.5			8.0
12-13		5.5																	7.5				7.0	9.0	
13-14	5.0				10.0		7.0									2.5									
14-15	9.0													9.0	4.0						3.5				
15-16	3.5	5.5			7.0	4.5		9.5	9.0												2.5				
16-17	7.5																								
17-18													10.0						3.0				9.5		
18-19	6.0	5.0		6.5			8.5								5.5				7.5	4.0			5.0		
19-20						4.5												8.0		3.0				4.5	
20-21	4.5				8.0															2.0					6.5
21-22	8.5	5.0										9.0													
22-23	3.0														7.5						4.5				
23-24	7.0					4.5	9.5														3.5				
24-25		4.5							8.0							8.0		5.0	7.5		2.5				
25-26	5.5				8.5					7.5														9.0	
26-27	9.5							8.5							9.0									5.0	
27-28	4.0	4.5	5.5		5.5						10.0					3.5				4.0					
28-29	8.0																			3.0				6.0	
29-30	3.0																2.5		2.5	2.0					

	U	V505	RW	AC	AM	V	X	W	TX	VV	XZ	RU	AG	BU
	SGE	SGR	TAU	TAU	TAU	TRI	TRI	UMA	UMA	UMA	UMA	UMI	VIR	VUL
MAX	6.4	6.4	8.0	10.5	10.4	10.9	8.9	9.1	6.8	10.1	10.1	10.7	8.8	10.6
MIN	9.1	7.6	12.5	12.3	12.3	11.9	12.0	9.9	8.9	11.0	11.7	11.4	9.4	11.4
DUR	6	5	4	6	4	4	4	3	6	3	3	4	4	3

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

	V	W	W	RV	SW	WW	ZZ	BR	CG	V346	V387	V477	TT	TY	YY	FZ	Z	TW	UZ	UZ	AI	YY	RW	SZ	TU	
	CRT	CRV	CRV	CRV	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	DEL	DEL	DEL	DEL	DRA	DRA	DRA	DRA	DRA	ERI	GEM	HER	HER	
MAX	9.5	10.6	10.6	9.0	9.3	9.9	10.7	9.4	11.0	11.8	11.5	8.3	10.6	9.6	11	10.2	10.8	7.8	9.9	9.9	7.2	8.4	9.6	10.2	10.6	
MIN	10.2	11.2	11.2	10.0	11.8	13.2	12.0	10.5	11.8	13.6	12.3	9.2	12.5	10.8	12	11.3	13.6	9.5	10.7	10.7	8.2	9.1	11.6	12.0	13.4	
DUR	4	4	4	4	5	5	4	4	3	5	3	4	5	4	4	3	4	5	5	5	4	3	5	4	5	
			(S)																	(S)		(S)				
0- 1			6.5	4.0			9.0		8.0												7.0			7.0		
1- 2	6.5	6.0						4.5			9.0															
2- 3			5.5				6.5		5.5			8.5							9.0							
3- 4		4.5	9.0	4.0							7.0				6.5		4.0									
4- 5		8.5	4.0				3.5																		9.0	
5- 6		3.0	8.0					4.5			5.5			9.0											5.0	
6- 7	4.5	7.0		3.5	9.0											7.0					7.0					
7- 8			6.5				7.0		7.0	8.0							5.5			6.5					7.5	
8- 9	7.0	5.5				4.5												9.0								
9-10			5.0	3.5			4.5	4.5					6.5												7.0	
10-11		4.0	9.0								8.5															
11-12		8.0	3.5	9.0										8.0			7.5	4.5								
12-13		3.0	7.5	3.0			8.0		8.0		6.5								3.5		7.0					
13-14	5.0	6.5						4.5								8.5									9.0	
14-15			6.0	9.0			5.0		5.5						9.0										5.0	3.0
15-16	7.5	5.5		3.0													9.0									
16-17			4.5																							9.0
17-18		4.0	8.5	8.5			8.5	4.5	9.0					7.0												
18-19	3.0	8.0	3.0			3.5				7.5					8.0						7.0				7.0	
19-20			7.0				6.0		6.5		7.5															
20-21	5.5	6.5		8.5																7.5						
21-22			5.5					4.0																		
22-23	8.0	5.0					9.0								7.5		4.0								9.0	
23-24		9.0	4.0	8.0																					5.0	4.5
24-25		3.5	8.0				6.5		8.0												6.5		4.0			
25-26	3.5	7.5	3.0					4.0																		
26-27			7.0	8.0			3.5				8.5						5.5		5.0	5.0						
27-28	6.0	6.0																							7.0	
28-29			5.5								7.0															
29-30	8.5	4.5		7.5	6.0		7.0	4.0	9.0	7.0			9.0													
30-31		8.5	4.0														7.5				6.5	3.0				

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	AM	W	TX	VV	XZ	RU	AG	BU
	TAU	UMA	UMA	UMA	UMA	UMI	VIR	VUL
MAX	10.4	9.1	6.8	10.1	10.1	10.7	8.8	10.6
MIN	12.3	9.9	8.9	11.0	11.7	11.4	9.4	11.4
DUR	4	3	6	3	3	4	4	3

0- 1		5.5			5.5			
1- 2		5.5		3.0				
2- 3		5.5					8.5	5.0
3- 4		5.5		4.5		3.5		8.5
4- 5		5.5				5.0	6.5	
5- 6		5.5		6.0	3.0	6.0		
6- 7		5.5			8.5	7.5	5.0	
7- 8		5.5		7.5		8.5		8.0
8- 9		5.5					3.5	
9-10		5.5		9.0				
10-11		6.0						
11-12		6.0			5.5		8.5	7.5
12-13		6.0		3.0				
13-14		6.0				3.0	6.5	
14-15		6.0		4.5		4.0		
15-16		6.0				5.5	5.0	7.0
16-17		6.0		6.0	3.0	6.5		
17-18		6.0			8.5	8.0	3.0	
18-19	3.5	6.0		7.5		9.0		
19-20		6.0						6.5
20-21	4.5	6.0		9.0			8.5	
21-22		6.0						
22-23	5.5	6.0	3.5		5.5		6.5	
23-24		6.0		3.0				6.5
24-25		6.0				3.5	5.0	
25-26		6.0	5.0	4.5		5.0		
26-27		6.0				6.0	3.0	
27-28		6.0		6.0	3.0	7.0		
28-29		6.0	6.5		8.5	8.5		9.0
29-30		6.0		7.5			8.5	
30-31		6.0						

	RT	TW	WZ	XZ	AB	XZ	OO	V342	V343	V346	CX	WW	Y	SV	AL	RW	RZ	TV	AB	U	EG	U	V	W	W	
	AND	AND	AND	AND	AND	AQL	AQL	AQL	AQL	AQL	AQR	AUR	CAM	CAM	CAM	CAP	CAS	CAS	CAS	CEP	CEP	CRB	CRT	CRV	CRV	
MAX	9.3	8.8	11.6	10.0	9.3	9.3	9.2	9.0	10.6	9.0	10.7	5.7	10.6	8.6	10.5	9.8	6.4	7.3	10.2	6.7	9.6	7.6	9.5	10.6	10.6	
MIN	10.2	11.0	12.6	13.0	10.2	11.2	10.1	12.5	12.3	10.4	12.0	6.4	12.4	9.4	11.3	10.8	7.8	8.4	12.2	9.8	10.6	8.8	10.2	11.2	11.2	
DUR	3	11	4	3	3	7	3	7	4	4	3	5	10	3	5	6	4	4	4	4	3	5	4	4	4	
																									(S)	
0- 1	6.5				5.0		8.5		7.5												3.5					
1- 2			6.5		4.5														5.5		6.0	4.0				
2- 3	4.0				4.5				4.0		8.0			4.5							8.0				6.5	
3- 4					4.5										5.5					4.5				5.5		
4- 5				6.5	4.5																				5.0	
5- 6	7.5				4.5																					
6- 7						5.5				3.5																
7- 8	4.5									6.0	8.0				5.0											
8- 9				8.0				6.5		8.5											4.0	7.5	4.5	7.0		
9-10														7.5											6.0	
10-11	8.0		7.5																						5.5	
11-12															5.0											4.5
12-13	5.5										8.5															4.0
13-14									5.5			4.0									3.5	5.5	4.0			
14-15																										7.0
15-16														6.0	4.5								5.0	6.5		
16-17													8.5													5.5
17-18	6.0									5.0	8.5															5.0
18-19										7.5																4.5
19-20	3.5														4.0											8.0
20-21																										7.5
21-22															4.0											7.0
22-23	7.0										8.5												5.5	6.0		
23-24						8.5										3.5										5.5
24-25	4.0	8.0					4.5		7.5																	4.5
25-26							4.5	5.5																		4.0
26-27			7.5				5.0																			8.0
27-28	7.5			8.0			5.0				8.5		6.5						5.0							7.0
28-29							5.5			6.5																6.5
29-30	5.0						6.0																6.0	5.5		

	Y	SS	delt	EW	FL	RW	BO	U	SX	U	Z	RT	XZ	Y	U	V505	V	X	RV	W	TX	VV	XZ	RU	AG	
	LEO	LIB	LIB	LYR	LYR	MON	MON	OPH	OPH	PEG	PER	PER	PER	PSC	SGE	SGR	TRI	TRI	TRI	UMA	UMA	UMA	UMA	UMI	VIR	
MAX	9.5	10.4	4.8	11.2	8.7	9.1	10.8	5.8	10.5	9.7	9.9	10.6	10.6	9.0	6.4	6.4	10.9	8.9	11.4	9.1	6.8	10.1	10.1	10.7	8.8	
MIN	12.7	11.3	5.9	13.6	9.5	11.9	12.1	6.5	11.2	10.5	12.4	12.0	12.7	12.0	9.1	7.6	11.9	12.0	12.5	9.9	8.9	11.0	11.7	11.4	9.4	
DUR	5	6	7	5	4	5	5	5	5	3	6	4	4	7	6	5	4	4	4	3	6	3	3	4	4	
0- 1		7.0	3.5																	6.0	8.5				6.5	
1- 2																				6.0						6.0
2- 3										7.0				7.5						6.5			6.0			5.0
3- 4		4.0										8.0					8.0			6.5						6.5
4- 5								5.0												6.5				4.0		6.5
5- 6										7.0										6.5		4.5		5.5		6.5
6- 7																6.5				6.5				8.0		6.5
7- 8										7.0	7.0								8.5	6.5		6.0		8.5		6.5
8- 9																				6.5						6.5
9-10								6.0												6.5		7.5				6.5
10-11					5.5															6.5						6.5
11-12											8.0									6.5						4.5
12-13																				6.5						6.5
13-14	4.5	5.5																		6.5			6.0			6.5
14-15								6.5												6.5				3.5		6.5
15-16																				6.5				4.5		6.5
16-17																				6.5	4.5			6.0	8.0	6.5
17-18				8.0					4.0						6.5					6.5				7.0		6.5
18-19	6.0																			6.5	6.0			8.5	6.5	6.5
19-20				6.5				7.5	5.5				4.5			7.0				6.5			8.5			6.5
20-21																				6.5						4.5
21-22				5.5					7.0			4.0								6.5						6.5
22-23																			8.5	6.5						6.5
23-24	7.5	7.5		4.0	7.5					8.5										6.5						6.5
24-25						4.0		8.0												6.5			6.0			6.5
25-26							4.0													6.5				4.0	8.0	6.5
26-27		4.5																		7.0				5.5		6.5
27-28																				7.0	4.5			6.5	6.5	6.5
28-29																				7.0				7.5		6.5
29-30																				7.0		6.0				4.5

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	BU
	VUL
MAX	10.6
MIN	11.4
DUR	3

0- 1	5.5
1- 2	
2- 3	
3- 4	
4- 5	5.0
5- 6	8.5
6- 7	
7- 8	
8- 9	4.5
9-10	8.0
10-11	
11-12	
12-13	4.5
13-14	7.5
14-15	
15-16	
16-17	4.0
17-18	7.0
18-19	
19-20	
20-21	
21-22	7.0
22-23	
23-24	
24-25	
25-26	6.5
26-27	
27-28	
28-29	
29-30	6.0

	RT	TW	WZ	XZ	AB	XZ	OO	V342	V343	V346	RY	CX	Y	SV	AL	RW	RZ	TV	AB	XX	EG	U	V	W	W
	AND	AND	AND	AND	AND	AQL	AQL	AQL	AQL	AQL	AQR	AQR	CAM	CAM	CAM	CAP	CAS	CAS	CAS	CEP	CEP	CRB	CRT	CRV	CRV
MAX	9.3	8.8	11.6	10.0	9.3	9.3	9.2	9.0	10.6	9.0	8.8	10.7	10.6	8.6	10.5	9.8	6.4	7.3	10.2	8.5	9.6	7.6	9.5	10.6	10.6
MIN	10.2	11.0	12.6	13.0	10.2	11.2	10.1	12.5	12.3	10.4	10.1	12.0	12.4	9.4	11.3	10.8	7.8	8.4	12.2	9.6	10.6	8.8	10.2	11.2	11.2
DUR	3	11	4	3	3	7	3	7	4	4	5	3	10	3	5	6	4	4	4	4	3	5	4	4	4
																									(S)
0- 1							6.0																		
1- 2			4.5				6.5					6.0		6.0	3.0				7.0		4.5			4.5	
2- 3	8.5						7.0					8.5									7.0				3.5
3- 4			6.5				7.0														9.0				
4- 5	5.5						7.5				8.5			5.5			5.5						4.0		
5- 6			9.0				8.0	9.0										6.5		3.0					
6- 7	3.0				9.0	4.5	8.0				7.5	6.0	4.5												
7- 8					9.0		8.5	5.0	3.0			9.0		4.5							4.5	8.0			4.5
8- 9					9.0	8.0	9.0					5.5	7.0						3.0		6.5			4.0	
9-10	6.5				8.5							8.0									9.0				3.0
10-11			5.5		8.5						6.0			3.5			5.0								
11-12	4.0				8.5							6.0		8.0									4.5		
12-13			7.5	6.5	8.5			4.5			5.0	9.0							5.5	3.5					5.5
13-14					8.5																4.5			5.0	
14-15	7.0				8.0						4.5			7.0				8.0			6.5	5.5			4.5
15-16					8.0																8.5			3.5	
16-17	4.5			8.0	8.0							6.5				7.0	4.5	3.5	8.0						
17-18					8.0							9.0		6.5			9.0								
18-19					8.0				7.0	4.5													5.0	6.0	
19-20	8.0		6.5		7.5					7.0										3.5	4.0				5.5
20-21					7.5				3.0					5.5							6.0			4.5	
21-22	5.5		9.0		7.5	4.0						6.5									8.5	3.5			4.0
22-23					7.5			8.5				9.0			9.0			4.0						3.0	
23-24					7.5	7.0								5.0				8.5		4.0					
24-25	9.0				7.0																				
25-26					7.0													5.0			4.0		5.0	5.5	
26-27	6.0		5.5		7.0							6.5		4.0	8.5					4.0	6.0				5.0
27-28		7.5			7.0									8.5					6.5		8.0			4.5	
28-29	3.5		7.5		7.0		3.0			3.5															3.5
29-30					6.5		3.5	3.5	8.5	6.0			7.5	3.0				8.0							
30-31					6.5		4.0							7.5	8.5								3.0		

	CM	Y	SS	delt	EW	FL	U	SX	U	TY	AQ	RT	ST	XZ	beta	Y	U	V505	V	X	RV	W	TX	VV	XZ
	LAC	LEO	LIB	LIB	LYR	LYR	OPH	OPH	PEG	PEG	PEG	PER	PER	PER	PER	PSC	SGE	SGR	TRI	TRI	TRI	UMA	UMA	UMA	UMA
MAX	8.5	9.5	10.4	4.8	11.2	8.7	5.8	10.5	9.7	10.5	10.3	10.6	9.7	10.6	2.2	9.0	6.4	6.4	10.9	8.9	11.4	9.1	6.8	10.1	10.1
MIN	9.5	12.7	11.3	5.9	13.6	9.5	6.5	11.2	10.5	12.6	13.0	12.0	13.2	12.7	3.5	12.0	9.1	7.6	11.9	12.0	12.5	9.9	8.9	11.0	11.7
DUR	4	5	6	7	5	4	5	5	3	6	10	4	5	4	8	7	6	5	4	4	4	3	6	3	3
0- 1	5.5																		6.0			7.0			
1- 2												8.5										7.0		7.5	
2- 3									6.5			5.0						7.0				7.0			
3- 4																						7.0		9.0	
4- 5					4.5												4.5		8.5			7.0			
5- 6									6.5					7.5								7.0			6.0
6- 7			6.0		9.0					4.5												7.0			
7- 8												7.5										7.0			
8- 9	6.5								6.5									5.0				7.0		4.0	
9-10			3.0																			7.0			
10-11		4.0											8.0									7.0	4.0	5.5	3.0
11-12									6.5										9.0	9.0		7.0			8.5
12-13																				8.5		7.0		7.0	
13-14												6.0		9.0						7.5		7.0	5.5		
14-15									6.5								7.5		7.5	7.0		7.0		8.5	
15-16		5.5																7.5				7.0			
16-17	7.0		7.5				3.5								7.5							7.0	7.0		6.0
17-18					6.5				6.5		7.0											7.0			
18-19												8.5										7.0			
19-20			4.5											3.0								7.5	8.5	4.0	
20-21								4.5	6.5													7.5			
21-22				8.5			4.5								6.5		5.5	8.0				7.5		5.5	3.0
22-23								6.0		7.0												7.5			8.5
23-24								6.5														7.5		7.0	
24-25	7.5				8.5			7.5				7.0										7.5			
25-26																						7.5		8.5	
26-27			9.0		7.0		5.0	9.0	6.5													7.5			
27-28																						7.5			6.0
28-29				8.0	6.0	3.5								8.0			7.5	8.5				7.5			
29-30	3.0		6.0						6.5													7.0	7.5		
30-31					4.5	8.0																7.5		4.0	

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	RU	AG	BU
	UMI	VIR	VUL
MAX	10.7	8.8	10.6
MIN	11.4	9.4	11.4
DUR	4	4	3

0- 1			
1- 2			
2- 3			
3- 4			5.5
4- 5			9.0
5- 6	3.5		
6- 7	4.5	6.5	
7- 8	6.0		5.0
8- 9	7.0	4.5	8.5
9-10	8.5		
10-11			
11-12			4.5
12-13			8.0
13-14			
14-15			
15-16		6.0	4.5
16-17	4.0		7.5
17-18	5.0	4.5	
18-19	6.5		
19-20	7.5		4.0
20-21	9.0		7.0
21-22			
22-23			
23-24			3.5
24-25		6.0	7.0
25-26			
26-27	3.5	4.5	
27-28	4.5		3.0
28-29	6.0		6.5
29-30	7.0		
30-31	8.0		

	RT	TW	WZ	XZ	AB	XZ	OO	V342	V343	V346	RY	CX	Y	SV	AL	RW	RZ	TV	AB	XX	EG	U	V	W	W	
	AND	AND	AND	AND	AND	AQL	AQL	AQL	AQL	AQL	AQR	AQR	CAM	CAM	CAM	CAP	CAS	CAS	CAS	CEP	CEP	CRB	CRT	CRV	CRV	
MAX	9.3	8.8	11.6	10.0	9.3	9.3	9.2	9.0	10.6	9.0	8.8	10.7	10.6	8.6	10.5	9.8	6.4	7.3	10.2	8.5	9.6	7.6	9.5	10.6	10.6	
MIN	10.2	11.0	12.6	13.0	10.2	11.2	10.1	12.5	12.3	10.4	10.1	12.0	12.4	9.4	11.3	10.8	7.8	8.4	12.2	9.6	10.6	8.8	10.2	11.2	11.2	
DUR	3	11	4	3	3	7	3	7	4	4	5	3	10	3	5	6	4	4	4	4	3	5	4	4	4	
																									(S)	
0- 1	7.0		2.5	6.5	6.5		4.0		4.5			6.5							9.0		3.5					
1- 2					6.5		4.5					9.0		2.5							5.5					
2- 3	4.0		4.5		6.5		5.0							6.5	6.0					4.0	8.0					
3- 4					6.0		5.0								8.0		2.5	6.5	2.5							
4- 5			6.5	8.0	6.0		5.5					4.0					7.5								3.0	
5- 6	7.5				6.0	3.0	6.0					6.5		6.0										2.5		
6- 7			9.0		6.0		6.0					9.5														
7- 8	5.0				5.5	6.5	6.5			2.5					7.5				5.0							
8- 9					5.5		7.0	7.5		5.0			5.5	5.0												
9-10			3.5		5.5		7.0			7.5		4.0		9.5						4.5	10.0					
10-11	8.5				5.5		7.5					6.5					7.0									
11-12			5.5	3.0	5.5		7.5		6.5			9.5		4.0	7.5				7.5						3.0	
12-13	5.5				5.0		8.0							8.5				8.0						2.0		
13-14			8.0		5.0		8.5		2.5																	
14-15	3.0				5.0		8.5					4.0		3.5				3.5								
15-16	9.0		10.0	5.0	5.0		9.0	2.5				7.0		8.0	7.0				10.0							
16-17					5.0		9.5					9.5					6.0				4.5					
17-18	6.5				4.5		9.5							2.5										3.5		
18-19			4.5		4.5					4.0			3.5	7.0					3.5							2.5
19-20	3.5			6.5	4.5					6.5		4.0			6.5	5.0										
20-21	10.0		6.5		4.5	2.5				9.0		7.0														
21-22					4.5							9.5		6.0												
22-23	7.0		9.0		4.0	6.0			8.0								5.5		6.0							
23-24				8.5	4.0										6.0			5.0		5.0						3.5
24-25	4.5				4.0	9.5			4.0			4.5		5.5												
25-26		4.0	3.5		4.0			6.5				7.0											2.5		3.0	
26-27					4.0							9.5							8.0							2.0
27-28	8.0		5.5		3.5									4.5	6.0											
28-29					3.5					3.0				9.0												
29-30	5.0	7.0	8.0		3.5					5.5		4.5				9.5	9.5					3.0			4.0	4.5
30-31					3.5					8.0	9.0	7.0		3.5						5.5	2.5					3.5

	Y	SW	WW	ZZ	BR	CG	V346	V387	V477	W	TT	TY	YY	FZ	Z	TW	UZ	UZ	AI	YY	YY	RW	SZ	TU	CT
	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	DEL	DEL	DEL	DEL	DEL	DRA	DRA	DRA	DRA	DRA	ERI	ERI	GEM	HER	HER	HER
MAX	7.0	9.3	9.9	10.7	9.4	11.0	11.8	11.5	8.3	9.4	10.6	9.6	11	10.2	10.8	7.8	9.9	9.9	7.2	8.4	8.4	9.6	10.2	10.6	9.9
MIN	7.6	11.8	13.2	12.0	10.5	11.8	13.6	12.3	9.2	12.7	12.5	10.8	12	11.3	13.6	9.5	10.7	10.7	8.2	9.1	9.1	11.6	12.0	13.4	11.2
DUR	6	5	5	4	4	3	5	3	4	7	5	4	4	3	4	5	5	5	4	3	3	5	4	5	4
																		(S)			(S)				
0- 1	9.5			4.0			9.0	8.5				8.0	2.5												
1- 2		6.5			3.5	3.0								5.5											
2- 3						9.0		6.5							2.5								9.0		
3- 4	9.0			7.5			3.0				9.5		6.5			9.5		7.5			9.0		4.5		
4- 5						6.5		4.5	5.5					9.0					5.0		8.5				
5- 6				4.5	3.0							2.5		3.5					10.0						
6- 7	9.0					4.0		2.5		8.0	6.5	7.0			4.5	4.5									
7- 8								9.5					5.5							9.5			7.0		5.5
8- 9				8.0										7.0			5.0			9.0			2.5	6.5	
9-10	9.0				3.0	8.0		7.5			3.5														
10-11				5.0									10.0		6.0				5.0						
11-12						5.5	8.5	5.5	6.5	3.5			5.0						9.5				9.0		
12-13	9.0		9.5	2.5								6.0		5.0							9.5	9.5	4.5		
13-14				8.5	3.0	2.5		3.5										2.5							
14-15						9.0	2.5						9.0		8.0										9.0
15-16	9.0			6.0									4.0	8.0											
16-17						6.5		8.5						3.0					8.5	4.5	9.5		7.0		4.0
17-18				3.0	3.0														9.5				2.5	8.0	
18-19	9.0			9.5		4.0		6.5	7.5			5.0	8.0		9.5										
19-20												9.5	3.0	6.0											
20-21				6.5				5.0								5.5							9.0		
21-22	8.5				3.0	7.5									2.5		6.0						4.5		
22-23			8.5	4.0			8.0	3.0					7.5	9.0					4.5						
23-24						5.0		9.5					2.5	4.0					9.5						7.5
24-25	8.5	3.0										4.0												3.0	
25-26				7.5	3.0	2.5		8.0	8.5			8.5		4.5									7.0		2.5
26-27						9.0					9.0		6.5	7.0				3.5					2.5	9.5	
27-28	8.5			4.5				6.0																	
28-29						6.5														4.5					
29-30					3.0			4.0			6.0				6.0			10.0	9.0				9.0		
30-31	8.5			8.0		3.5				9.0		2.5	5.5	5.0									4.5		

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	V	X	RV	W	TX	VV	XZ	RU	AG	BU
	TRI	TRI	TRI	UMA	UMA	UMA	UMA	UMI	VIR	VUL
MAX	10.9	8.9	11.4	9.1	6.8	10.1	10.1	10.7	8.8	10.6
MIN	11.9	12.0	12.5	9.9	8.9	11.0	11.7	11.4	9.4	11.4
DUR	4	4	4	3	6	3	3	4	4	3

0- 1	6.5			7.5				9.5		2.5
1- 2			7.0	7.5		5.5	3.0			6.0
2- 3				7.5			8.5			9.5
3- 4	5.0			7.5		7.0				
4- 5	9.0		7.5	7.5						2.5
5- 6				7.5		8.5		3.0		5.5
6- 7				7.5				4.0	2.5	9.0
7- 8	7.0		8.0	7.5			6.0	5.0		
8- 9				7.5		2.5		6.5		
9-10				7.5				7.5		5.0
10-11	5.5		8.0	7.5		4.0		9.0		8.5
11-12	9.5			8.0						
12-13				8.0		5.5	3.0			
13-14		10.0	8.5	8.0					4.0	5.0
14-15	7.5	9.0		8.0		7.0				8.0
15-16		8.5		8.0					2.5	
16-17		8.0	9.0	8.0		8.5		3.5		
17-18	6.0	7.0		8.0				4.5		4.5
18-19		6.5		8.0			6.0	5.5		7.5
19-20		5.5	9.0	8.0		2.5		7.0		
20-21				8.0				8.0		
21-22	8.0			8.0		4.0		9.5		4.0
22-23			9.5	8.0					4.0	7.5
23-24				8.0		5.5	3.0			
24-25	6.5			8.0					2.5	
25-26				8.0	3.0	7.0				3.5
26-27				8.0				2.5		7.0
27-28				8.0		8.5		4.0		
28-29	9.0			8.0	4.5			5.0		
29-30				8.0			6.0	6.5	6.0	3.0
30-31				8.0		2.5		7.5		6.5

	W	Y	SW	WW	ZZ	BR	CG	V346	V387	V477	W	TT	TY	YY	FZ	Z	TW	UZ	UZ	AI	YY	YY	RW	SZ	TU	
	CRV	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	DEL	DEL	DEL	DEL	DEL	DRA	DRA	DRA	DRA	DRA	ERI	ERI	GEM	HER	HER	
MAX	10.6	7.0	9.3	9.9	10.7	9.4	11.0	11.8	11.5	8.3	9.4	10.6	9.6	11	10.2	10.8	7.8	9.9	9.9	7.2	8.4	8.4	9.6	10.2	10.6	
MIN	11.2	7.6	11.8	13.2	12.0	10.5	11.8	13.6	12.3	9.2	12.7	12.5	10.8	12	11.3	13.6	9.5	10.7	10.7	8.2	9.1	9.1	11.6	12.0	13.4	
DUR	4	6	5	5	4	4	3	5	3	4	7	5	4	4	3	4	5	5	5	4	3	3	5	4	5	
	(S)																				(S)				(S)	
0- 1							10.0		2.0				7.5												8.5	
1- 2				7.5	5.5				9.0	9.5		3.0														7.5
2- 3	8.5	6.5				3.0	7.5	7.0						10.0	8.5	8.0					10.5	7.0			5.0	
3- 4					2.5	11.0			7.0					5.0	3.0		6.5	7.0		4.5	10.0			6.5		
4- 5					8.5		5.0				4.0									9.0	9.0		8.0	2.5		
5- 6	8.0								5.0					1.5								8.0				
6- 7					6.0	3.0	2.5			2.0			6.0	9.0	6.5	9.5	1.5					7.0				
7- 8						10.5	8.5			3.5				4.0								10.5		9.0		
8- 9	8.0				3.0				10.0	10.5									4.5			9.5		4.5		
9-10					9.5		6.0			1.5					9.5	3.0				4.0		8.5				
10-11						2.5				8.0				8.0	4.5					9.0		7.5				
11-12	8.0	10.0	6.5	6.5	10.5	3.5								3.0							10.5	7.0			6.5	
12-13							10.0		6.5	6.5				5.0							10.0			6.5		
13-14					4.0			6.5		3.0				10.0		7.5	4.5		2.0			9.0		2.5		
14-15	8.0				10.0	2.5	7.5			4.5				7.5	2.5							8.0				
15-16						10.5								2.5							4.0	7.5				
16-17					7.5		4.5			2.5					10.5			8.5		9.0		10.5		9.0		
17-18	8.0									9.5					5.5	6.5	7.0					9.5		4.5		
18-19					4.5	2.5	2.0				8.0	4.0	6.5									8.5			1.5	
19-20					11.0	10.5	8.5			7.5				8.5	1.5							7.5				
20-21	2.0	8.0			2.0					4.0					8.5		2.5					10.5			8.0	
21-22				5.0	8.0		6.0			5.5		5.0		10.5	3.5	8.0			5.5	4.0	10.0			6.5		
22-23						2.5								5.5						8.5	9.0			2.5		
23-24	7.5				5.5	10.5	3.5			3.5	9.5											8.0				
24-25						9.5	6.0	10.5			2.0	3.0			6.5								9.0			
25-26			3.5		2.5					2.0				7.5	10.0	1.5	9.5					10.5		9.0		
26-27		7.5			8.5	2.5	7.0			8.5				5.0				3.0				9.5		4.5		
27-28	2.0					10.5					5.0				10.0					3.5		8.5			3.0	
28-29					6.0		4.5			6.5	5.0				4.5	3.0				8.5						
29-30		7.5					11.0							9.0				9.5				11.0			9.5	

	CT	SW	VX	CM	Y	SS	delt	T	EW	FL	RW	U	SX	EQ	ER	FL	U	TY	AQ	Z	RT	ST	XZ	beta	Y	
	HER	LAC	LAC	LAC	LEO	LIB	LIB	LMI	LYR	LYR	MON	OPH	OPH	ORI	ORI	ORI	PEG	PEG	PEG	PER	PER	PER	PER	PER	PER	PSC
MAX	9.9	9.2	10.9	8.5	9.5	10.4	4.8	10.2	11.2	8.7	9.1	5.8	10.5	10.3	9.5	10.5	9.7	10.5	10.3	9.9	10.6	9.7	10.6	2.2	9.0	
MIN	11.2	10.0	12.3	9.5	12.7	11.3	5.9	12.6	13.6	9.5	11.9	6.5	11.2	13.3	10.2	13.2	10.5	12.6	13.0	12.4	12.0	13.2	12.7	3.5	12.0	
DUR	4	3	4	4	5	6	7	6	5	4	5	5	5	4	3	3	3	6	10	6	4	5	4	8	7	
0- 1		6.5			10.5												6.0								4.5	
1- 2	6.0	5.5							8.0			3.0			7.5		9.0			9.0	7.0					
2- 3		4.5		10.0													3.0			5.5						
3- 4		3.5							6.5	4.5					10.0		6.0			1.5			4.5			
4- 5		2.5												7.5	6.5		9.0						8.0			
5- 6		2.0														8.5	3.0		5.5							
6- 7		8.5	1.5			2.0						3.5			9.5		6.0									
7- 8		7.5	3.5	5.5					4.0								8.5				7.5					
8- 9		7.0	5.5								10.0						2.5				4.0				5.0	
9-10		6.0	7.0							3.0					8.5		5.5					6.0				
10-11	4.0	5.0	9.0	11.0													8.5							2.5		
11-12		4.0	10.5							1.5		4.5					2.5							6.0		
12-13		3.0		1.5											7.5		5.5				10.0		9.5			
13-14		2.0															8.5				6.5					
14-15		1.5								1.5					10.5		2.5			2.0	2.5					
15-16		8.0		6.5													5.5									
16-17		7.0				3.5				6.0	5.0						8.5		8.0							
17-18	7.5	6.5													9.5		2.5			3.5		4.5		9.5		
18-19		5.5								10.5							5.5				8.5			4.0		
19-20	2.5	4.5															8.5				5.0		7.5			
20-21		3.5		2.0													2.5			4.5					6.0	
21-22		2.5	3.0					10.5				6.0	2.0		8.5		5.5									
22-23		1.5	4.5				4.5							3.5		10.0	8.5	3.5								
23-24		8.5	6.5	7.0													2.5			6.0				3.0	6.5	
24-25		7.5	8.0										5.0				5.5				7.5					
25-26		6.5	10.0													10.5	8.5	5.5			3.5					
26-27	6.0	6.0				5.0						6.5	6.5				2.5			7.5				5.5		
27-28		5.0								3.5							5.5		10.0					9.0		
28-29		4.0		2.5											9.5		8.5	8.0								
29-30		3.0			2.5	2.0	4.0			7.5							2.5			8.5	9.5					

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	U	V505	RW	AC	AM	V	X	RV	W	TX	VV	XZ	RU	AG	BU
	SGE	SGR	TAU	TAU	TAU	TRI	TRI	TRI	UMA	UMA	UMA	UMA	UMI	VIR	VUL
MAX	6.4	6.4	8.0	10.5	10.4	10.9	8.9	11.4	9.1	6.8	10.1	10.1	10.7	8.8	10.6
MIN	9.1	7.6	12.5	12.3	12.3	11.9	12.0	12.5	9.9	8.9	11.0	11.7	11.4	9.4	11.4
DUR	6	5	4	6	4	4	4	4	3	6	3	3	4	4	3

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

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	R	UU	U	Y	SW	WW	ZZ	BR	CG	V346	V387	V477	W	TT	TY	YY	FZ	Z	TW	UZ	UZ	AI	YY	YY	RW		
	CMA	CMA	CRB	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	DEL	DEL	DEL	DEL	DEL	DRA	DRA	DRA	DRA	DRA	ERI	ERI	GEM		
MAX	6.2	10.0	7.6	7.0	9.3	9.9	10.7	9.4	11.0	11.8	11.5	8.3	9.4	10.6	9.6	11	10.2	10.8	7.8	9.9	9.9	7.2	8.4	8.4	9.6		
MIN	6.8	12.5	8.8	7.6	11.8	13.2	12.0	10.5	11.8	13.6	12.3	9.2	12.7	12.5	10.8	12	11.3	13.6	9.5	10.7	10.7	8.2	9.1	9.1	11.6		
DUR	4	5	5	6	5	5	4	4	3	5	3	4	7	5	4	4	3	4	5	5	5	4	3	3	5		
																					(S)			(S)			
0- 1							3.5	2.5	2.0		5.0				2.0	4.0						10.0	6.0				
1- 2	8.0					4.0	9.5	10.5	8.0						6.5		8.0		8.0		0.5		9.0	5.0			
2- 3	11.5			7.5			0.5				3.0						2.5	4.5					8.0	4.5			
3- 4							6.5		5.5		9.5					8.0						3.5	7.5	11.5			
4- 5		8.0			7.0			2.5			1.0	6.0				3.0			3.5		7.0	8.5	6.5	10.5			
5- 6			2.0	7.5			4.0	10.5	3.0	5.5	8.0						6.0						5.5	9.5			
6- 7							10.0		9.5						1.0		0.5	6.5					5.0	8.5			
7- 8							1.0		0.5		6.0				5.5	7.5								8.0			
8- 9				7.0			7.5	2.5	7.0							2.5	9.0						11.0	7.0			
9-10								10.5			4.0						4.0			4.0		3.5	10.0	6.0			
10-11	10.5						4.5		4.5		11.0							8.0				8.0	9.0	5.5			
11-12				7.0		3.0	11.0		10.5		2.0	7.0		7.5		6.5							8.5				
12-13							2.0	2.5	1.5		9.0					1.5	7.0			10.5			7.5	11.5			
13-14					10.5		8.0	10.0	8.0	11.0					4.5		2.0	1.5					6.5	10.5			
14-15				7.0		10.5					7.0			4.5	9.0			10.0			1.5		5.5	9.5	10.5		
15-16							5.5		5.5							5.5			9.0			3.5		8.5			
16-17							11.5	2.0		4.5	5.0					0.5	5.0					8.0		8.0			
17-18				7.0			2.5	10.0	3.0					1.5				3.0			8.0		11.0	7.0	7.5		
18-19	9.0						9.0		9.0		3.5	8.0				9.5			4.0				10.0	6.0			
19-20											10.0					3.5	5.0	8.0					9.0	5.5			
20-21				7.0			6.0	2.0	6.5		1.5					8.0		3.0					8.5				
21-22						2.0		10.0			8.0							4.5				3.0	7.5	11.5			
22-23							3.5		4.0				5.5			9.0				5.5		8.0	6.5	10.5			
23-24				7.0			9.5		10.5		6.5	0.5				4.0	6.0						6.0	9.5			
24-25						9.5	0.5	2.0	1.5	10.0							1.0							9.0			
25-26							6.5	10.0	8.0		4.5	9.0						6.5						8.0			
26-27				6.5							11.0					7.0	8.0	9.5					11.0	7.0			
27-28	11.0				3.5		4.0		5.5	4.0	2.5		1.0			3.0	4.0			2.5	3.0	10.0	6.0				
28-29							10.0	2.0			9.5										8.0	9.0					
29-30			6.0	6.5			1.5	10.0	2.5		0.5							8.0	9.5				8.5				
30-31							7.5		9.0		7.5	1.5				7.5	7.5				9.0		7.5	11.5			

	SZ	TU	CT	AV	SW	VX	CM	Y	SS	delt	EW	FL	RU	RU	RW	BO	U	SX	EQ	ER	FL	U	TY	AQ	Z
	HER	HER	HER	HYA	LAC	LAC	LAC	LEO	LIB	LIB	LYR	LYR	MON	MON	MON	MON	OPH	OPH	ORI	ORI	ORI	PEG	PEG	PEG	PER
MAX	10.2	10.6	9.9	10.2	9.2	10.9	8.5	9.5	10.4	4.8	11.2	8.7	10.6	10.6	9.1	10.8	5.8	10.5	10.3	9.5	10.5	9.7	10.5	10.3	9.9
MIN	12.0	13.4	11.2	10.6	10.0	12.3	9.5	12.7	11.3	5.9	13.6	9.5	11.3	11.3	11.9	12.1	6.5	11.2	13.3	10.2	13.2	10.5	12.6	13.0	12.4
DUR	4	5	4	4	3	4	4	5	6	7	5	4	5	5	5	5	5	5	4	3	3	3	6	10	6

(S)

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

	RT	RV	ST	XZ	beta	Y	U	V505	RW	AC	AM	V	X	RV	W	TX	VV	XZ	RU	BU
	PER	PER	PER	PER	PER	PSC	SGE	SGR	TAU	TAU	TAU	TRI	TRI	TRI	UMA	UMA	UMA	UMA	UMI	VUL
MAX	10.6	10.3	9.7	10.6	2.2	9.0	6.4	6.4	8.0	10.5	10.4	10.9	8.9	11.4	9.1	6.8	10.1	10.1	10.7	10.6
MIN	12.0	12.7	13.2	12.7	3.5	12.0	9.1	7.6	12.5	12.3	12.3	11.9	12.0	12.5	9.9	8.9	11.0	11.7	11.4	11.4
DUR	4	8	5	4	8	7	6	5	4	6	4	4	4	4	3	6	3	3	4	3
0-1	6.0		10.5				2.0	4.5	9.0			3.5			1.0		1.0	0.5	7.0	
1-2	2.5											7.5		8.0	1.0		10.0	6.0	8.0	3.0
2-3												11.5		2.5	1.0		2.5	11.5	9.0	6.5
3-4			2.0	3.0					3.5			1.5			1.0		11.5		10.5	10.0
4-5				7.0								5.5		8.5	1.0		4.0			
5-6	8.5			10.5								9.5		2.5	1.0					3.0
6-7	4.5							2.5							1.0		5.5		1.5	6.0
7-8	1.0				11.0							4.0		9.0	1.0			8.5	2.5	9.5
8-9			9.0			8.0				5.0	8.0	3.0	1.0		1.0		7.0		4.0	
9-10															1.0				5.0	2.5
10-11	10.5			1.0	8.0		5.0			6.0	2.0			9.5	1.0	1.5	8.5		6.0	5.5
11-12	7.0		0.5	4.5					11.0			6.0		3.5	1.0		1.0	0.5	7.5	9.0
12-13	3.5			8.5		2.5		0.5		7.0	10.0				1.0		10.0	6.0	8.5	
13-14					4.5			5.0						9.5	1.0	3.0	2.5	11.5	10.0	2.0
14-15									5.5	8.5	4.5			3.5	1.0		11.5		11.0	5.5
15-16												8.5			1.0		4.0			8.5
16-17	9.5		7.5		1.5					9.5				10.0	1.0				1.0	
17-18	5.5											2.5		4.0	1.0		5.5		2.0	1.5
18-19	2.0			2.5						10.5	6.5	11.5			1.0			8.5	3.0	5.0
19-20				6.0				3.0				11.0	10.5	10.5	1.0		7.0		4.5	8.0
20-21		11.0		10.0			8.5	7.5				11.5	1.0	10.0	4.5	1.5			5.5	
21-22												5.0	9.5		1.5		8.5		6.5	1.0
22-23	8.0	10.5										9.0	8.5	10.5	1.5		1.0	0.5	8.0	4.5
23-24	4.5					9.5			5.5				8.0	5.0	1.5		10.0	6.0	9.0	8.0
24-25	1.0	10.0	6.5									3.0	7.0		1.5		2.5	11.5	10.5	11.0
25-26								1.0	7.0	7.0		7.0	6.5	11.0	1.5	9.0	11.5			1.0
26-27		9.0		4.0				5.0				11.5	6.0	5.0	1.5		4.0			4.0
27-28	10.5			7.5		4.0	3.0			8.0		1.5	5.0		1.5				1.5	7.5
28-29	7.0	8.5		11.0								5.5	4.5	11.5	1.5	10.5	5.5	3.5	2.5	10.5
29-30	3.0									9.0		9.5	4.0	5.5	1.5			8.5	3.5	
30-31		8.0			9.5								3.0		1.5		7.0		5.0	3.5

	AI	YY	YY	RW	SZ	TU	CT	AV	SW	VX	CM	Y	SS	delt	EW	FL	RU	RU	RW	BO	U	SX	EQ	ER	FL
	DRA	ERI	ERI	GEM	HER	HER	HER	HYA	LAC	LAC	LAC	LEO	LIB	LIB	LYR	LYR	MON	MON	MON	MON	OPH	OPH	ORI	ORI	ORI
MAX	7.2	8.4	8.4	9.6	10.2	10.6	9.9	10.2	9.2	10.9	8.5	9.5	10.4	4.8	11.2	8.7	10.6	10.6	9.1	10.8	5.8	10.5	10.3	9.5	10.5
MIN	8.2	9.1	9.1	11.6	12.0	13.4	11.2	10.6	10.0	12.3	9.5	12.7	11.3	5.9	13.6	9.5	11.3	11.3	11.9	12.1	6.5	11.2	13.3	10.2	13.2
DUR	4	3	3	5	4	5	4	4	3	4	4	5	6	7	5	4	5	5	5	5	5	5	4	3	3
			(S)																						
0- 1		6.5	3.0			3.5			5.0														10.5	4.5	
1- 2		6.0	9.5		4.5				4.0														6.5		
2- 3	3.0	5.0	9.0						3.0	0.5	9.5												3.0		
3- 4	7.5	4.0	8.0						2.0	2.5						4.0		7.0		11.0			9.5	7.0	
4- 5		3.5	7.0					7.0	1.0	4.0												10.0	5.5		
5- 6		2.5	6.5						8.0	6.0						8.5	11.5								
6- 7		9.5	5.5	8.5	2.0			8.5	7.0	7.5												4.0	8.5	9.5	
7- 8		8.5	4.5						6.0	9.5	5.0												5.0		
8- 9	2.5	7.5	3.5				3.0	9.5	5.0	11.0									10.0				11.5		
9-10	7.5	6.5	3.0	5.5		5.0			4.5														7.5		
10-11		6.0	9.5		4.5			11.0	3.5		10.0							11.0	7.5				4.0		
11-12		5.0	9.0						2.5													9.5	10.5		
12-13		4.0	8.0						1.5		1.0								5.5	8.5			7.0		
13-14		3.5	7.0						0.5													3.5	3.0		
14-15	2.5	10.0	6.5						7.5							1.5							9.5		
15-16	7.5	9.5	5.5		2.0				6.5		6.0	7.5											6.0		
16-17		8.5	4.5						5.5							5.5									
17-18		7.5	4.0				1.5		4.5	1.5				1.0									8.5	6.0	
18-19		7.0	10.5						4.0	3.5	11.0				6.5							9.5	5.0		
19-20		6.0	10.0		4.5			8.0	3.0	5.0													11.5		
20-21	2.5	5.0	9.0						2.0	7.0	1.5	9.0			5.5								8.0	8.5	
21-22	7.0	4.0	8.0					9.0	1.0	8.5													4.0		
22-23		11.0	7.0						8.0	10.5					4.0								10.5		
23-24		10.0	6.5		6.5			10.5	7.0		6.5						9.5			11.5		1.0	7.0	11.0	
24-25		9.5	5.5		2.0				6.0					0.5	3.0										
25-26		8.5	4.5			2.0		11.5	5.0			10.0										2.5	9.0	10.0	
26-27	2.5	7.5	4.0	10.0					4.0		11.5				1.5								6.0		
27-28	7.0	7.0	10.5						3.5				1.0			3.0			11.5						
28-29		6.0	10.0		4.5				2.5		2.0				0.5			9.0					9.0		
29-30		5.0	9.0	7.0					1.5							7.5			9.0		0.5		5.5		

	U	TY	AQ	Z	RT	RV	ST	XZ	beta	Y	U	V505	RW	AC	AM	V	X	RV	W	TX	VV	XZ	RU	AG	BU
	PEG	PEG	PEG	PER	PER	PER	PER	PER	PER	PSC	SGE	SGR	TAU	TAU	TAU	TRI	TRI	TRI	UMA	UMA	UMA	UMA	UMI	VIR	VUL
MAX	9.7	10.5	10.3	9.9	10.6	10.3	9.7	10.6	2.2	9.0	6.4	6.4	8.0	10.5	10.4	10.9	8.9	11.4	9.1	6.8	10.1	10.1	10.7	8.8	10.6
MIN	10.5	12.6	13.0	12.4	12.0	12.7	13.2	12.7	3.5	12.0	9.1	7.6	12.5	12.3	12.3	11.9	12.0	12.5	9.9	8.9	11.0	11.7	11.4	9.4	11.4
DUR	3	6	10	6	4	8	5	4	8	7	6	5	4	6	4	4	4	4	3	6	3	3	4	4	3

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

AAVSO Eclipsing Binary Ephemeris for December 2006

all times U.T.

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	RT	TW	WZ	XZ	AB	XZ	OO	V342	V343	V346	RY	CX	WW	WW	Y	SV	AL	RW	RZ	TV	AB	U	XX	EG	SS
	AND	AND	AND	AND	AND	AQL	AQL	AQL	AQL	AQL	AQR	AQR	AUR	AUR	CAM	CAM	CAM	CAP	CAS	CAS	CAS	CEP	CEP	CEP	CET
MAX	9.3	8.8	11.6	10.0	9.3	9.3	9.2	9.0	10.6	9.0	8.8	10.7	5.7	5.7	10.6	8.6	10.5	9.8	6.4	7.3	10.2	6.7	8.5	9.6	9.4
MIN	10.2	11.0	12.6	13.0	10.2	11.2	10.1	12.5	12.3	10.4	10.1	12.0	6.4	6.4	12.4	9.4	11.3	10.8	7.8	8.4	12.2	9.8	9.6	10.6	13.0
DUR	3	11	4	3	3	7	3	7	4	4	5	3	5	5	10	3	5	6	4	4	4	4	4	3	5

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

	R	UU	U	W	W	Y	SW	WW	ZZ	BR	CG	V346	V387	V477	W	TT	TY	YY	FZ	Z	TW	UZ	UZ	AI	YY	
	CMA	CMA	CRB	CRV	CRV	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	DEL	DEL	DEL	DEL	DEL	DRA	DRA	DRA	DRA	DRA	ER1	
MAX	6.2	10.0	7.6	10.6	10.6	7.0	9.3	9.9	10.7	9.4	11.0	11.8	11.5	8.3	9.4	10.6	9.6	11	10.2	10.8	7.8	9.9	9.9	7.2	8.4	
MIN	6.8	12.5	8.8	11.2	11.2	7.6	11.8	13.2	12.0	10.5	11.8	13.6	12.3	9.2	12.7	12.5	10.8	12	11.3	13.6	9.5	10.7	10.7	8.2	9.1	
DUR	4	5	5	4	4	6	5	5	4	4	3	5	3	4	7	5	4	4	3	4	5	5	5	4	3	
					(s)																	(s)				
0- 1					12.0				2.5		7.5		1.5					5.5				8.5			4.5	
1- 2				11.0		5.5			9.0				8.0				0.5	0.5							3.5	
2- 3					10.5						4.5						5.0		5.0	6.5	2.0			2.0	2.5	
3- 4								5.0	6.0	1.5			6.0											7.0	9.5	
4- 5						5.5				9.5	2.0			6.5				5.0						11.5	8.5	
5- 6									3.5		8.5		4.5										6.0		7.5	
6- 7									9.5										3.0	8.5					7.0	
7- 8	8.5				11.5	5.5	7.5		0.5	1.5	6.0	7.5	2.5												6.0	
8- 9	12.0	8.0		11.0					7.0	9.5			9.0				4.0	4.0						2.0	5.0	
9-10											3.5		0.5	7.0					6.0	1.5				7.0	4.5	
10-11		12.0				5.5			4.0			1.5	7.5						1.0	10.0		3.5		11.5	3.5	
11-12									10.0	1.5	1.0			7.5												10.5
12-13									1.5	9.5	7.0		5.5					3.0								9.5
13-14			3.5	12.0		5.0		4.0	7.5										4.0	3.5	7.5	9.5				8.5
14-15					11.5						4.5		3.5		2.5		3.0			12.0				2.0	8.0	
15-16	7.5								5.0	1.5							7.5	7.0					1.0	6.5	7.0	
16-17	11.0					5.0			11.0	9.5	2.0		1.5	0.0				2.5	7.0		3.0			11.5	6.0	
17-18									2.0		8.0		8.5						2.0	5.0						5.0
18-19									8.0			7.0		8.5									7.0			4.5
19-20						5.0				1.5	5.5		6.5			5.0		6.5								3.5
20-21			1.0						5.5	9.5							2.0	1.5	5.0					1.5	10.5	
21-22		8.0					0.5				3.0	1.0	4.5				6.5			6.5				6.5	9.5	
22-23						5.0			2.5		9.5					2.0								11.5	8.5	
23-24		12.0						3.0	9.0	1.5	0.5		3.0	1.0				5.5				4.5				8.0
24-25	9.5								9.0	7.0			9.5					0.5	3.0							7.0
25-26						5.0			6.0				1.0								8.5					6.0
26-27					12.0						4.5		7.5				1.0					10.5		1.5	5.5	
27-28									3.5	1.0	10.5						5.5	5.0	6.5		8.5			6.5	4.5	
28-29						4.5			9.5	9.0	2.0		6.0						1.0	1.5			2.0	11.0	11.5	
29-30									0.5		8.0	6.5								10.0						10.5
30-31							4.0		7.0				4.0	2.0							3.5					9.5

	Z	RT	ST	XZ	beta	Y	U	V505	RW	AC	AM	V	X	RV	W	TX	VV	XZ	RU	AG	BU
	PER	PER	PER	PER	PER	PSC	SGE	SGR	TAU	TAU	TAU	TRI	TRI	TRI	UMA	UMA	UMA	UMA	UMI	VIR	VUL
MAX	9.9	10.6	9.7	10.6	2.2	9.0	6.4	6.4	8.0	10.5	10.4	10.9	8.9	11.4	9.1	6.8	10.1	10.1	10.7	8.8	10.6
MIN	12.4	12.0	13.2	12.7	3.5	12.0	9.1	7.6	12.5	12.3	12.3	11.9	12.0	12.5	9.9	8.9	11.0	11.7	11.4	9.4	11.4
DUR	6	4	5	4	8	7	6	5	4	6	4	4	4	4	3	6	3	3	4	4	3
0- 1	10.0	8.0				1.5			7.0		8.5		5.5		2.0		5.0	3.5	4.0	10.5	
1- 2	6.0											4.0	4.5	9.5	2.0			8.5	5.5		0.5
2- 3	2.5			0.5							9.5	8.0	4.0	3.5	2.0		6.5		6.5		3.5
3- 4				4.0				1.5	1.5	2.5			3.0		2.0				8.0		7.0
4- 5				7.5						10.5	2.5	2.5	9.5	2.0	5.0	8.0			9.0		
5- 6				11.5						3.5		6.5	2.0	4.0	2.5		0.5		10.0		
6- 7	8.5										11.5	10.5	1.0		2.5		9.5	6.0	11.5		3.5
7- 8	5.0									4.5		0.5	0.5	10.0	2.5	6.5	2.0	11.5		12.0	6.5
8- 9	1.5	7.0										4.5		4.0	2.5		11.0		1.0		
9-10										5.5		8.5			2.5		3.5		2.5	10.0	
10-11				2.0			1.5	4.0						10.5	2.5	8.0			3.5		3.0
11-12	11.0			5.5		8.5			9.0	6.5		3.0		4.5	2.5		5.0	3.5	5.0		6.0
12-13	7.0			9.0	10.0							7.0			2.5			8.5	6.0		
13-14	3.5									7.5		11.0		11.0	2.5	9.5	6.5		7.0		
14-15									3.5			1.0		5.0	2.5				8.5		2.5
15-16					6.5	3.0				9.0		5.0			2.5		8.0		9.5		6.0
16-17			5.5					2.0				9.0		11.0	2.5	11.0	0.5		11.0	12.0	
17-18	9.5								10.0					5.0	2.5		9.5	6.0	12.0		
18-19	6.0			3.5	3.5							3.5			2.5		2.0	11.5	0.5	10.0	2.0
19-20	2.5			7.0						11.0		7.5		11.5	2.5		11.0		2.0		5.5
20-21				10.5			5.0					11.5		5.5	2.5		3.5		3.0		8.5
21-22					0.5					12.0		1.5			2.5				4.0		
22-23	12.0								10.5			5.5		12.0	2.5		5.0	3.5	5.5		1.5
23-24	8.0							4.5				9.5		6.0	2.5			9.0	6.5		5.0
24-25	4.5	4.5												0.0	2.5		6.5		7.5		8.5
25-26	1.0			1.0					5.0			4.0	11.5		2.5				9.0	12.0	
26-27				5.0		10.0						8.0	11.0	6.5	2.5		8.0		10.0		1.5
27-28				8.5									10.0	0.5	2.5		0.5	1.0	11.5		4.5
28-29	10.5											2.0	9.5		3.0		9.5	6.0			8.0
29-30	7.0	11.5						2.0				6.0	9.0	6.5	3.0		2.0	11.5	1.0		
30-31	1.0	3.5				4.5						10.5	8.0	0.5	3.0		11.0		2.5		1.0