

	SW AND	XX AND	AT AND	SW AQR	TZ AUR	BH AUR	RS BOO	ST BOO	SW BOO	SZ BOO	TV BOO	TW BOO	UU BOO	UY BOO	RW CNC	TT CNC	RR CET	XZ CYG	DM CYG	RW DRA	XZ DRA	RR GEM	TW HER	VX HER	AR HER	
MAX	9.3	10.3	10.8	10.5	11.2	11.1	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	10.7	11.0	9.3	9.1	11.2	11.0	9.6	10.7	10.5	9.9	10.6	
MIN	10.8	11.6	11.5	12.1	12.8	12.6	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	12.6	12.3	10.3	10.5	12.7	12.0	10.3	11.9	11.8	10.4	11.6	
DUR	4	6	5	2	3	4	4	5	3	3	5	5	3	4	3	4	3	4	3	4	5	3	3	4	3	
0- 1	6.5		5.0		0.0	9.5	10.5	9.0	7.0		6.0		9.5		1.5	4.5		4.5		9.0	7.0	6.5			1.5	
1- 2	4.0	7.5			4.5	7.5			7.5	6.5	4.5		7.0		4.0	7.5		2.5	2.0	6.0	6.0	1.5		10.5	11.5	
2- 3	1.0	1.0	1.5		8.5	5.0	7.5		8.0	7.5	11.0			11.5	6.0	10.5	1.5	1.0		3.5	5.0	6.0			10.0	
3- 4			7.0		3.5	3.0	10.5	11.5	9.0	8.5	9.5	7.0			8.5		4.0	10.5	4.5	0.5	4.0	1.5			8.5	
4- 5	6.0	5.0		2.0	7.5	1.0			9.5	9.5	8.0	8.5		10.0	10.5	3.0	6.5	9.0	0.5	8.5	2.5	6.0			7.0	
5- 6	3.5		3.5		2.5	10.0	8.0	8.5	10.0	10.5	6.5	10.0	10.0			6.0		7.5		5.5	1.5	1.0			6.0	
6- 7	0.5	9.0			6.5	7.5	11.0		11.0		5.0	11.5	8.0	9.0	2.0	9.0		6.0	3.0	3.0	0.5	5.5		11.0		
7- 8		2.5			1.5	5.5			11.5		11.0				4.5		1.0	4.0		0.5	10.5	0.5				
8- 9	5.5		5.5		5.5	3.5	8.5	11.0			9.5		8.0	6.5		3.5	2.5		8.0	9.5	5.0				1.5	
9-10	3.0	6.5			0.5	1.5	11.5				8.0			9.0	4.5	6.0	1.0	1.5	5.5	8.5	0.5				11.5	
10-11			2.0	1.5	4.5	10.0		8.0			6.5		10.5		11.0	7.5		10.5		2.5	7.5	5.0			10.0	
11-12	8.0		7.5		9.0	8.0	9.0					6.5	8.5			10.5		9.0	4.0	10.5	6.0	9.5		11.0	8.5	
12-13	5.0	4.0			3.5	6.0					11.0	8.0			2.5		0.5	7.5		8.0	5.0	4.5			7.0	
13-14	2.5		4.0		8.0	4.0		10.5			9.5	9.5			5.0	3.5	3.0	6.0		5.0	4.0	9.0				
14-15		8.0			2.5	2.0	9.5			8.0	8.0	11.0			7.0	6.5	5.5	4.0	2.5	2.5	3.0	4.0				
15-16	7.5	1.0	0.5	2.5	7.0	10.5		7.5		9.0	6.5		11.0	11.5	9.5	9.5		2.5		10.0	1.5	9.0			2.5	
16-17	4.5		6.0	0.5	1.5	8.5			10.0				9.0		11.5			1.0	5.0	7.5	0.5	4.0		11.5	1.0	
17-18	2.0	5.0			6.0	6.5	10.0			11.5	11.0			10.5				10.5	1.0	4.5	11.0	8.5			11.0	
18-19			2.5		0.5	4.5		10.0	6.5		9.5				3.0	5.0	2.5	9.0		2.0	9.5	3.5			9.5	
19-20	7.0	9.0	8.0		5.0	2.0			7.0		8.0			9.5	5.5	8.0	5.0	7.5	3.5	10.0	8.5	8.0			8.0	
20-21	4.0	2.5			9.0	11.0	10.0		7.5		6.5	7.5			7.5	11.0	7.5	6.0		7.0	7.5	3.5			6.5	
21-22	1.5		4.5	2.0	4.0	9.0			8.5			9.0	10.0	8.5	10.0			4.0	6.0	4.5	6.5	8.0		11.5		
22-23	9.0	6.5			8.0	7.0			9.0		11.0	10.5				3.5		2.5	2.0	1.5	5.0	3.0				
23-24	6.5		1.0		3.0	4.5	10.5	9.5	9.5		9.5				6.5	2.0	1.0		9.5	4.0	7.5				2.5	
24-25	3.5	10.5	6.5		7.0	2.5		0.5	10.0		0.5				3.5	9.5	4.5	10.5	4.5	7.0	3.0	2.5			1.0	
25-26	1.0	4.0			2.0	0.5	8.0		11.0		6.5				5.5		7.0	9.0	0.5	4.0	2.0	7.0			11.0	
26-27	9.0		3.0	3.0	6.0	9.5	11.0		11.5	8.5			10.5		8.0			7.5	6.5	1.5	0.5	2.5		11.5	9.5	
27-28	6.0	8.0	8.5	1.5	1.0	7.0			9.5	11.0			8.5		10.5		5.5		6.0	3.0	9.0	11.0	7.0	3.0	8.0	
28-29	3.0	1.5			5.0	5.0	8.5	9.0		11.0	9.5	7.0				8.5	1.5	4.0		6.5	10.0	2.0				
29-30	0.5		5.0		9.5	3.0	11.5				0.5	8.5				11.5	4.0	2.5	5.0	4.0	9.0	6.5	2.5			
30-31	8.5	5.5			4.0	1.0					6.5	10.5		11.0	4.0			6.5	1.0	1.5	1.0	7.5	1.5		3.5	

	DL	DY	SZ	UU	VX	DG	DH	RR	SS	TV	WW	SZ	RZ	AV	RV
	HER	HER	HYA	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LYN	LYR	PEG	UMA
MAX	11.0	10.2	10.6	10.7	10.0	11.6	11.4	10.0	10.5	11.5	11.0	9.1	10.0	9.9	10.1
MIN	12.4	10.6	11.7	12.3	10.7	12.6	12.6	11.7	12.0	12.6	12.0	-9.6	12.0	10.9	11.2
DUR	3	2	4	6	3	4	4	3	5	6	7	2	3	3	4

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

AAVSO RR LYR Ephemeris for February 2007

all times U.T.

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	SW	XX	AT	SW	TZ	BH	RS	ST	SW	SZ	TV	TW	UU	UY	RW	TT	RR	XZ	DM	RW	XZ	RR	TW	VX	AR
	AND	AND	AND	AQR	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CNC	CNC	CET	CYG	CYG	DRA	DRA	GEM	HER	HER	HER
MAX	9.3	10.3	10.8	10.5	11.2	11.1	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	10.7	11.0	9.3	9.1	11.2	11.0	9.6	10.7	10.5	9.9	10.6
MIN	10.8	11.6	11.5	12.1	12.8	12.6	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	12.6	12.3	10.3	10.5	12.7	12.0	10.3	11.9	11.8	10.4	11.6
DUR	4	6	5	2	3	4	4	5	3	3	5	5	3	4	3	4	3	4	3	4	5	3	3	4	3
0-1	5.5		1.5		8.5	10.0	9.0				5.0		11.0		6.0	4.0		10.5		9.0	6.5	6.0			
1-2	3.0				3.0	7.5					3.5		9.0	10.0	8.5	7.0		9.0		6.0	5.5	1.5	7.5	10.0	
2-3		3.0			7.5	5.5	6.0	8.5	3.5		9.5		7.0		10.5	10.0	1.0	7.5		3.5	4.5	6.0		7.5	10.5
3-4			3.5		2.0	3.5	9.5		4.5	5.0	8.0	3.5	5.0	8.5			3.5	5.5			3.0	1.0	7.5		9.0
4-5	5.0	7.0			6.5	1.5		5.0	5.0	6.0	6.5	5.0			2.0	2.5		4.0	2.5	8.5	2.0	5.5			7.5
5-6	2.5				1.0	10.0	6.5	11.0	5.5	7.0	5.0	7.0		7.5	4.5	5.5		2.5		6.0	1.0	10.0			6.0
6-7			5.5		5.5	8.0	9.5		6.5	8.0	3.5	8.5	9.5		6.5	9.0		1.0		3.0	11.0	5.5		10.0	5.0
7-8		4.0			9.5	6.0		8.0	7.0	9.0	9.5	10.0	7.5	6.5	9.0			10.5	1.0	11.0	10.0	10.0		8.0	
8-9	4.5		2.0		4.5	4.0	7.0		7.5	10.5	8.0		5.5		11.0	1.5	3.0	9.0		8.0	9.0	5.0			
9-10	2.0				8.5	1.5	10.0		8.5		6.5			5.5		4.5	5.5	7.5	3.0	5.5	8.0	9.5			
10-11		1.5			3.5	10.5		10.5	9.0		5.0				2.5	7.5		5.5		3.0	6.5	4.5			10.5
11-12			4.0		7.5	8.5	7.5		9.5		3.5		10.0		5.0	10.5		4.0		10.5	5.5	9.0		10.0	9.0
12-13	4.0	5.5			2.5	6.5	10.5	7.5	10.0		9.5	5.0	8.0		7.0			2.5	1.5	8.0	4.5	4.5		8.0	7.5
13-14	1.5			1.0	6.5	4.0	5.0		11.0		8.0	6.5	6.0		9.5	3.0	2.5	1.0		5.0	3.5	9.0			6.0
14-15			6.0		1.5	2.0	8.0				6.5	8.0		10.5		6.0	5.0	10.5		2.5	2.0	4.0			4.5
15-16	6.5	3.0			5.5	11.0	11.0	10.0		5.5	5.0	9.5			1.0	9.0		9.0		10.5	1.0	8.5			
16-17	3.5		2.5		9.5	9.0			6.5	3.5	11.0	11.0	9.0	3.0				7.5		7.5		3.5		10.5	
17-18	1.0	7.0			4.5	7.0	8.5	7.0		7.5	9.5		9.0		5.5	1.5		5.5	2.5	5.0	10.0	8.0		8.5	
18-19					8.5	4.5				8.5	8.0		6.5	8.0	7.5	4.5	1.5	4.0		2.0	9.0	3.5			10.0
19-20	6.0		4.5		3.5	2.5	5.5			10.0	6.5			10.0	8.0	4.5	2.5		10.0	8.0	8.0				8.5
20-21	3.0	4.5			7.5		9.0	9.5		11.0	5.0	4.5		7.0		11.0		1.0	1.0	7.5	7.0	3.0			7.0
21-22			1.0		2.5	9.5					11.0	6.0			1.0			10.5		4.5	5.5	7.5		10.5	5.5
22-23		8.5	6.5		6.5	7.0	6.0	6.5			9.5	7.5	9.5		3.5	3.5		9.0	3.5	2.0	4.5	2.5		8.5	
23-24	5.5	2.0			1.5	5.0	9.5		5.0		8.0	9.0	7.5		6.0	6.5	1.0	7.5		9.5	3.5	7.5			
24-25	2.5		3.0	1.5	5.5	3.0			5.5		6.5	10.5			8.0	9.5	3.5	5.5		7.0	2.5	2.5			
25-26		6.0			10.0	1.0	6.5	9.0	6.5		5.0			10.5		6.5	4.0	2.0	4.0	1.0	7.0				11.0
26-27					4.5	9.5	9.5		7.0		11.0					2.0		2.5		1.5		2.0		11.0	10.0
27-28	5.0		5.0		9.0	7.5			7.5		9.5		10.0	10.5	1.5	5.0		1.0	4.5	9.5	10.5	6.5			8.5

	DL	DY	SZ	UU	VX	DG	DH	RR	SS	TV	WW	SZ	RZ	AV	RV
	HER	HER	HYA	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LYN	LYR	PEG	UMA
MAX	11.0	10.2	10.6	10.7	10.0	11.6	11.4	10.0	10.5	11.5	11.0	9.1	10.0	9.9	10.1
MIN	12.4	10.6	11.7	12.3	10.7	12.6	12.6	11.7	12.0	12.6	12.0	-9.6	12.0	10.9	11.2
DUR	3	2	4	6	3	4	4	3	5	6	7	2	3	3	4

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

	SW	XX	AT	TZ	BH	RS	ST	SW	SZ	TV	TW	UU	UY	RW	TT	RR	XZ	DM	RW	XZ	RR	TW	VX	AR	DL
	AND	AND	AND	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CNC	CNC	CET	CYG	CYG	DRA	DRA	GEM	HER	HER	HER	HER
MAX	9.3	10.3	10.8	11.2	11.1	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	10.7	11.0	9.3	9.1	11.2	11.0	9.6	10.7	10.5	9.9	10.6	11.0
MIN	10.8	11.6	11.5	12.8	12.6	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	12.6	12.3	10.3	10.5	12.7	12.0	10.3	11.9	11.8	10.4	11.6	12.4
DUR	4	6	5	3	4	4	5	3	3	5	5	3	4	3	4	3	4	3	4	5	3	3	4	3	3
0- 1	2.0	3.5		3.5	5.5	7.0		8.5	7.0	8.0	4.0	8.0		4.0	8.0			6.5	9.0	1.5		6.5	7.0		
1- 2				8.0	3.5	10.0		9.0	8.0	6.5	5.5	6.0	9.5	6.0		3.0	9.0	4.0	8.0	6.5	7.0			5.5	
2- 3				2.5		4.5	8.5	9.5	9.5	5.0	7.0	4.0		8.5			7.0		7.0					4.0	9.0
3- 4				7.0		7.5		10.5		3.5	8.5		8.5		4.0		5.5	9.5	9.0	6.0	6.0	6.5		2.5	
4- 5	2.0		3.5	1.5	8.0		5.5			2.0	10.5				7.0		4.0		6.5	4.5			9.0		
5- 6		4.5		6.0	6.0	4.5				8.0		8.5	7.5	2.0	10.0		2.5		3.5	3.5	5.5	6.5	7.0		8.0
6- 7				10.0	4.0	8.0				6.5		6.5		4.5		2.5			2.5	10.5					9.5
7- 8	4.0			5.0			8.0			5.0	2.0	4.5	6.0	6.5	2.5				8.5		5.5	6.5			8.0
8- 9		2.0		9.0		5.0			3.5	3.5	3.5			9.0	5.5		9.0	10.0	6.0		10.0			6.5	7.0
9-10			1.5	4.0	8.5	8.5	5.0		4.5	2.0	5.5		5.0		8.5		7.0		3.0		5.0	6.5	9.0	5.0	
10-11		6.0		8.0	6.5			2.5	5.5	8.0	7.0	9.0					5.5			9.5	9.5		7.0	4.0	
11-12	3.5			3.0	4.0	5.5		3.0	6.5	6.5	8.5	7.0	4.0	2.5		2.0	4.0		8.5	8.0	4.5	6.5			2.5
12-13			4.0	7.0	2.0	9.0	7.5	4.0	7.5	5.0	10.0	5.0		5.0	4.0		2.5		5.5	7.0	9.5				10.5
13-14		3.5		2.0				4.5	9.0	3.5				7.0	7.0				3.0	6.0	4.5	6.5			
14-15				6.0	9.0	6.0	4.5	5.0	10.0	2.0			10.0	9.5	10.0					5.0	9.0		9.5	9.5	
15-16	3.0			10.5	6.5	9.0	10.0	6.0		8.0		10.0					9.0		8.0	3.5	4.0	6.5	7.0	8.0	9.5
16-17				5.0	4.5	3.5		6.5		6.5	3.5	8.0	9.0		3.0		7.0		5.5	2.5	8.5				6.5
17-18			2.0	9.5	2.5	6.5	7.0	7.0		5.0	5.0	5.5		3.0	6.0	4.0	5.5		2.5		3.5				5.0
18-19		5.0		4.0		9.5		7.5		3.5	6.5		7.5	5.5	9.0		4.0	2.0			8.5				3.5 8.5
19-20	2.5			8.5	9.0	4.0	4.0	8.5		2.0	8.0			7.5			2.5		7.5		3.5		9.5		
20-21			4.0	3.0	7.0	7.0	9.5	9.0	4.0	8.0	9.5		6.5	10.0					5.0	9.5	8.0		7.5		
21-22		2.5		7.5	5.0	10.0		9.5	5.0	6.5		8.5			4.5				2.0	8.5	3.0				7.5
22-23	5.0			2.0	3.0	4.0	6.5	10.5	6.0	5.0		6.5	5.5		7.5	3.5	9.0		10.0	7.5	7.5				9.0
23-24	2.0	6.5		6.5		7.5			7.0	3.5		4.5		3.5			7.0		7.5	6.0	2.5				7.5
24-25					9.5				8.5	9.5	3.0		4.5	6.0			5.5		4.5	5.0	7.5		10.0	6.0	
25-26			2.5	5.5	7.5	4.5	9.0		9.5	8.0	4.5			8.0	3.0		4.0		2.0	4.0	2.5		7.5	4.5	
26-27	4.5	3.5		9.5	5.5	8.0				6.5	6.0	9.0			6.0		2.5		10.0	2.5	7.0				3.5
27-28	1.5			4.5	3.5		6.0			5.0	7.5	7.0			9.0	3.0			7.0		2.0				
28-29			4.5	8.5		5.0				3.5	9.0	5.0				1.5			4.5		6.5				9.5
29-30				3.5	10.0	8.5				9.5		9.0	4.0	2.0			8.5				1.5		10.0	10.5	
30-31	4.0			7.5	8.0		8.5			8.0				6.5	5.0		7.0		9.5	9.5	6.5		8.0	9.0	

	DY	SZ	UU	VX	DG	DH	RR	SS	TV	WW	SZ	RZ	AV	RV
	HER	HYA	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LYN	LYR	PEG	UMA
MAX	10.2	10.6	10.7	10.0	11.6	11.4	10.0	10.5	11.5	11.0	9.1	10.0	9.9	10.1
MIN	10.6	11.7	12.3	10.7	12.6	12.6	11.7	12.0	12.6	12.0	-9.6	12.0	10.9	11.2
DUR	2	4	6	3	4	4	3	5	6	7	2	3	3	4

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

AAVSO RR LYR Ephemeris for April 2007

all times U.T.

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	XX AND	AT AND	SW AQR	TZ AUR	BH AUR	RS BOO	ST BOO	SW BOO	SZ BOO	TV BOO	TW BOO	UU BOO	UY BOO	RW CNC	TT CNC	RR CET	XZ CYG	DM CYG	RW DRA	XZ DRA	RR GEM	TW HER	VX HER	AR HER	DL HER
MAX	10.3	10.8	10.5	11.2	11.1	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	10.7	11.0	9.3	9.1	11.2	11.0	9.6	10.7	10.5	9.9	10.6	11.0
MIN	11.6	11.5	12.1	12.8	12.6	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	12.6	12.3	10.3	10.5	12.7	12.0	10.3	11.9	11.8	10.4	11.6	12.4
DUR	6	5	2	3	4	4	5	3	3	5	5	3	4	3	4	3	4	3	4	5	3	3	4	3	3
0- 1				2.5	6.0	5.5		4.0	3.5	6.5		9.5	8.0	8.5	8.0		5.5		6.5	8.5		6.0	5.5	7.5	8.5
1- 2				6.5	3.5	9.0	5.5	4.5	4.5	5.0	2.5	7.5					4.0	8.5	4.0	7.5	6.0		3.5	6.0	
2- 3						3.0		5.0	5.5	3.5	4.0	5.5	7.0				2.5			6.5		6.0		4.5	
3- 4	2.5	9.0		5.5		6.0	2.0	6.0	6.5	2.0	5.5	3.5		2.0	3.5				9.0	5.0	5.5			3.0	7.5
4- 5				9.5		9.0	8.0	6.5	8.0	8.0	7.0		6.0	4.5	6.5			7.0	6.5	4.0		6.0	8.0		
5- 6				4.5	6.0	3.5		7.0	9.0	6.5	9.0			6.5			8.5		3.5	3.0	5.5		6.0		
6- 7			10.0	8.5	4.0	6.5	5.0	7.5		5.0		8.5	4.5	9.0			7.0	9.5				6.0	4.0		6.5
7- 8				3.5		9.5		8.5		3.5		6.0			2.0		5.5		9.0		5.0			8.5	
8- 9	4.0			7.5		4.0		9.0		2.0		4.0	3.5		5.0		4.0		6.0			6.0		7.0	
9-10				2.5		7.0	7.5	9.5		8.0	2.0			2.5	8.5		2.5	8.0	3.5	10.0	4.5		8.5	5.5	5.5
10-11				6.5	6.5					6.5	3.5		2.5	5.0						8.5		6.0	6.0	4.0	
11-12		9.5			4.5	4.0	4.5		3.0	5.0	5.5	9.0	9.5	7.0					8.5	7.5	4.5		4.0	3.0	
12-13				5.5	2.5	7.5			4.0	3.5	7.0	7.0		9.5	4.0		8.5		5.5	6.5	9.0	6.0			
13-14								5.0	2.0	8.5	5.0	8.5			7.0		7.0		3.0	5.5	4.0				9.0
14-15				4.5		4.5	7.0		6.0	8.0		2.5					5.5	9.0		4.0	8.5	5.5	8.5	10.0	
15-16				9.0	7.0	8.0		7.5	6.5			7.5	3.0				4.0		8.0	3.0	4.0		6.5	8.5	
16-17	3.0			3.5	5.0		4.0		8.5	5.0		9.5		5.5	2.5		2.5		5.5		8.5	5.5	4.0	7.0	8.0
17-18				8.0	3.0	5.0	9.5	2.5	9.5	3.5		7.5	6.0	7.5	5.5				2.5		3.5			5.5	
18-19				2.5		8.5		3.0		2.0	3.5	5.5			8.5						8.0	5.5		4.0	
19-20		9.5		7.0		2.5	6.5	4.0		8.5	5.0	3.5	5.0				8.5		8.0		3.0		8.5	2.5	7.0
20-21					7.5	5.5		4.5		7.0	6.5						7.0		5.0	9.0	7.5	5.5	6.5		
21-22	4.0			6.0	5.5	8.5	3.5	5.0		5.5	8.0		4.0	3.5	4.0		5.5		2.5	7.5	3.0		4.5		
22-23					3.0	3.0	9.0	6.0	2.5	4.0	9.5	8.0		6.0	7.5		4.0	8.5		6.5	7.5	5.5		9.5	6.0
23-24		2.5		5.0		6.0		6.5	3.5	2.5		6.0	3.0	8.0			2.5		7.5	5.5	2.5			8.0	
24-25				9.0		9.0	6.0	7.0	4.5	8.5		4.0							4.5	4.5	7.0	5.5	9.0	6.5	
25-26				4.0	8.0	3.5		8.0	5.5	7.0					3.0					4.5	4.5	7.0	5.5	9.0	6.5
26-27				8.0	5.5	6.5	3.0	8.5	7.0	5.5	3.0		9.0		6.0		8.5				6.5	5.5		4.0	9.5
27-28				3.0	3.5	9.5	8.5	9.0	8.0	4.0	4.5	8.5		4.0	9.0	2.0	7.0	9.5	7.0					2.5	
28-29				7.0		3.5		9.5	9.0	2.5	6.0	6.5	8.0	6.5			5.5		4.5		6.5	5.5			
29-30	3.0					7.0	5.5			8.5	7.5	4.5		8.5			4.0						9.0		8.5

	DY	SZ	UU	VX	DG	DH	RR	SS	TV	WW	SZ	RZ	AV	RV
	HER	HYA	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LYN	LYR	PEG	UMA
MAX	10.2	10.6	10.7	10.0	11.6	11.4	10.0	10.5	11.5	11.0	9.1	10.0	9.9	10.1
MIN	10.6	11.7	12.3	10.7	12.6	12.6	11.7	12.0	12.6	12.0	-9.6	12.0	10.9	11.2
DUR	2	4	6	3	4	4	3	5	6	7	2	3	3	4

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

	XX	AT	SW	TZ	BH	RS	ST	SW	SZ	TV	TW	UU	UY	RW	TT	XZ	DM	RW	XZ	RR	TW	VX	AR	DL	DY
	AND	AND	AQR	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CNC	CNC	CYG	CYG	DRA	DRA	GEM	HER	HER	HER	HER	HER
MAX	10.3	10.8	10.5	11.2	11.1	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	10.7	11.0	9.1	11.2	11.0	9.6	10.7	10.5	9.9	10.6	11.0	10.2
MIN	11.6	11.5	12.1	12.8	12.6	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	12.6	12.3	10.5	12.7	12.0	10.3	11.9	11.8	10.4	11.6	12.4	10.6
DUR	6	5	2	3	4	4	5	3	3	5	5	3	4	3	4	4	3	4	5	3	3	4	3	3	2

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

	SZ	UU	VX	DG	DH	RR	SS	TV	WW	SZ	RZ	AV	RV
	HYA	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LYN	LYR	PEG	UMA
MAX	10.6	10.7	10.0	11.6	11.4	10.0	10.5	11.5	11.0	9.1	10.0	9.9	10.1
MIN	11.7	12.3	10.7	12.6	12.6	11.7	12.0	12.6	12.0	-9.6	12.0	10.9	11.2
DUR	4	6	3	4	4	3	5	6	7	2	3	3	4

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

	SW	XX	AT	SW	TZ	BH	RS	ST	SW	SZ	TV	TW	UU	UY	RW	TT	XZ	DM	RW	XZ	RR	TW	VX	AR	DL
	AND	AND	AND	AQR	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CNC	CNC	CYG	CYG	DRA	DRA	GEM	HER	HER	HER	HER
MAX	9.3	10.3	10.8	10.5	11.2	11.1	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	10.7	11.0	9.1	11.2	11.0	9.6	10.7	10.5	9.9	10.6	11.0
MIN	10.8	11.6	11.5	12.1	12.8	12.6	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	12.6	12.3	10.5	12.7	12.0	10.3	11.9	11.8	10.4	11.6	12.4
DUR	4	6	5	2	3	4	4	5	3	3	5	5	3	4	3	4	4	3	4	5	3	3	4	3	3
0- 1			8.5		4.5				6.5	7.5	5.5	6.0	4.5			4.5	8.5			8.5			6.0		7.0
1- 2								5.0	7.0	8.5	4.0	7.5		4.0	4.5		7.0	5.5	7.0	7.0		4.5	4.0	8.5	
2- 3	7.0		5.0		4.0		6.0		8.0								5.5		4.0	6.0				7.0	
3- 4				6.5					8.5		8.5						3.5	8.0		5.0		4.5		5.5	6.0
4- 5		6.5		5.0				7.5			7.0		7.0					4.0		4.0	5.0		8.5	4.0	
5- 6			7.0				6.5				5.5		5.0						6.5			4.5	6.5		
6- 7	6.5							4.5			4.0							6.5	4.0		5.0		4.0		5.0
7- 8					6.0		3.5					4.0			5.0		8.5					4.5			
8- 9				8.0			7.0			3.5	8.5	5.5		8.0	7.0		7.0				4.5				
9-10		8.0		6.0	5.0			7.0		5.0	7.0	7.5	7.5			4.5	5.5	5.0	6.0			4.5		8.0	4.0
10-11			5.5				4.0			6.0	5.5		5.5	6.5			3.5		3.5	8.5	4.0		6.5	6.5	8.5
11-12					4.0		7.5	4.0		7.0	4.0		3.5					7.5		7.5		4.5	4.5	5.0	
12-13										8.0				5.5				3.5		6.0	4.0			3.5	
13-14	8.5		7.5				4.5				8.5				5.5	3.5			6.0	5.0		4.5			7.5
14-15				7.5			7.5	6.5			7.0		8.0	4.5	7.5		8.5	6.0		4.0	3.5				
15-16									4.0		5.5	4.0	6.0				7.0					4.0	7.0		
16-17					6.0		5.0	3.5	4.5		4.0	5.5	4.0				5.5	8.5	8.5				4.5		6.5
17-18	8.0						8.0		5.5			7.0					3.5	4.5	5.5			4.0		8.0	
18-19			6.0		5.0	3.5			6.0		8.5	8.5			3.5	5.0								6.5	
19-20				8.5			5.5	6.0	6.5		7.0				6.0			7.0				4.0		5.0	5.5
20-21				6.5	4.0		8.5		7.0	4.5	5.5		7.0						8.0	8.5			7.0	3.5	
21-22	7.5		8.0						8.0	5.5	4.0		4.5	8.5			8.5		5.0	7.5		4.0	5.0		
22-23		8.0					6.0		8.5	6.5						3.5	7.0	5.5		6.5					4.5
23-24						4.0				7.5	8.5	3.5		7.0			5.0			5.0		4.0			
24-25								5.5			7.0	5.0			4.0		3.5	8.0	7.5	4.0					
25-26				8.0	6.5		6.5				5.5	6.5	7.5	6.0	6.5				5.0			4.0	7.0	7.5	3.5
26-27			6.5								4.0	8.0	5.5										5.0	6.0	8.0
27-28					5.5		3.5	8.5						5.0		5.5		6.5			6.0	4.0		4.5	
28-29						4.5	7.0				8.5						8.5		7.5						
29-30			8.5		4.5			5.0			7.0			3.5			7.0		4.5		6.0	4.0			7.0

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	DY	SZ	UU	VX	DG	DH	RR	SS	TV	WW	SZ	RZ	AV	RV
	HER	HYA	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LYN	LYR	PEG	UMA
MAX	10.2	10.6	10.7	10.0	11.6	11.4	10.0	10.5	11.5	11.0	9.1	10.0	9.9	10.1
MIN	10.6	11.7	12.3	10.7	12.6	12.6	11.7	12.0	12.6	12.0	-9.6	12.0	10.9	11.2
DUR	2	4	6	3	4	4	3	5	6	7	2	3	3	4

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

AAVSO RR LYR Ephemeris for July 2007

all times U.T.

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	SW	XX	AT	SW	TZ	BH	RS	ST	SW	SZ	TV	TW	UU	UY	RW	TT	RR	XZ	DM	RW	XZ	RR	TW	VX	AR	
	AND	AND	AND	AQR	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CNC	CNC	CET	CYG	CYG	DRA	DRA	GEM	HER	HER	HER	
MAX	9.3	10.3	10.8	10.5	11.2	11.1	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	10.7	11.0	9.3	9.1	11.2	11.0	9.6	10.7	10.5	9.9	10.6	
MIN	10.8	11.6	11.5	12.1	12.8	12.6	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	12.6	12.3	10.3	10.5	12.7	12.0	10.3	11.9	11.8	10.4	11.6	
DUR	4	6	5	2	3	4	4	5	3	3	5	5	3	4	3	4	3	4	3	4	5	3	3	4	3	
0- 1		7.0		9.0			4.0				5.5		8.0		4.5			5.0	5.0		8.5		8.5	7.5		
1- 2			5.0	7.0	3.5	9.0	7.5			4.0	4.0	3.0	6.0			8.5	3.5				7.5		4.0	5.5		
2- 3	9.0			5.0				8.0		5.0		4.5	4.0						7.5	7.0		6.5		8.5	3.0	8.5
3- 4	6.0			3.5			4.5		3.5	6.0	8.5	6.0							3.5	4.5		5.5		4.0		7.5
4- 5			7.0				7.5	4.5	4.0	7.0	7.0	7.5										4.0		8.5		6.0
5- 6		8.0							4.5	8.0	5.5		8.5					8.5	6.0		3.0		3.5	7.5	4.5	
6- 7	8.5		3.5	8.5			5.0		5.5		4.0		6.5	7.5	5.0		8.0	7.0		6.5			8.5	5.5	3.0	
7- 8	5.5		9.0	6.5			8.0	7.5	6.0				4.5					5.0	8.5	4.0			3.5	3.5		
8- 9		5.5		4.5					6.5		8.5			6.5				3.5	4.5				8.5			
9-10			5.5				5.5	4.0	7.5		7.0									9.0			3.5			
10-11	8.0				3.5		8.5		8.0		5.5	4.0		5.0					7.0	6.5	9.0		8.5	8.0	8.5	
11-12	5.0								8.5		4.0	5.5	7.0		3.0				3.0	3.5	8.0		3.5	5.5	7.0	
12-13			7.5	7.5			6.0	7.0		3.5		7.5	5.0	4.0				8.5			6.5		8.5	3.5	5.5	
13-14		7.0		6.0			9.0			4.5	8.5	9.0	3.0					7.0	5.5	8.5	5.5	3.5	3.5		4.0	
14-15	7.5		4.0	4.0			3.0	3.5		5.5	7.0			3.0		3.0		5.0		6.0	4.5		8.5			
15-16							6.5			6.5	5.5							3.5	7.5	3.5	3.5	3.5	3.5	8.0		
16-17										7.5	4.0		8.0						4.0				8.5	6.0		
17-18			6.0	9.0			3.5	6.5		9.0			6.0	9.0	3.5					8.5		3.0	3.5	4.0		
18-19	7.0	8.5		7.0			7.0				8.5	4.0	3.5						6.5	5.5			8.0		8.5	
19-20				5.0	4.0			3.0			7.0	5.5		8.0				8.5		3.0			3.5		7.0	
20-21			8.0				4.0	9.0			5.5	7.0						6.5	8.5		9.0		8.0	8.5	5.5	
21-22		6.0					7.0				4.0	8.5	8.5	7.0				5.0	5.0	8.0	8.0		3.5	6.0	4.0	
22-23	6.5		4.0					5.5	3.5				6.5			9.0	3.5		5.5	7.0		8.0	4.0			
23-24				8.5			4.5		4.0		8.5		4.5	5.5	4.0	3.5			7.0		5.5		3.5			
24-25				6.5			7.5		4.5	4.0	7.0								3.5		4.5		8.0			
25-26	9.0		6.5	4.5				8.5	5.5	5.0	5.5			4.5						8.0	3.5		3.5	8.5		
26-27	6.0	7.5			5.0		5.0		6.0	6.0	4.0	3.5						8.5	5.5	5.0			8.0	6.5	8.0	
27-28							8.0	5.0	6.5	7.0		5.0	7.0	3.5				6.5					3.0	4.0	6.5	
28-29			8.5		4.0				7.5	8.5	8.5	6.5	5.0					5.0	8.0				8.0		5.0	
29-30	8.5			7.5			5.5		8.0		7.0	8.0	3.0		4.5			3.5	4.5	7.5			3.0		3.5	
30-31			4.5	5.5	3.0		8.5	8.0	8.5		5.5									4.5			8.0	8.5		

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	DL	DY	SZ	UU	VX	DG	RR	SS	TV	WW	SZ	RZ	AV	RV
	HER	HER	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LYN	LYR	PEG	UMA
MAX	11.0	10.2	10.6	10.7	10.0	11.6	10.0	10.5	11.5	11.0	9.1	10.0	9.9	10.1
MIN	12.4	10.6	11.7	12.3	10.7	12.6	11.7	12.0	12.6	12.0	-9.6	12.0	10.9	11.2
DUR	3	2	4	6	3	4	3	5	6	7	2	3	3	4

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

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	SW	XX	AT	SW	TZ	BH	RS	ST	SW	SZ	TV	TW	UU	UY	RW	RR	XZ	DM	RW	XZ	RR	TW	VX	AR	DL
	AND	AND	AND	AQR	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CNC	CET	CYG	CYG	DRA	DRA	GEM	HER	HER	HER	HER
MAX	9.3	10.3	10.8	10.5	11.2	11.1	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	10.7	9.3	9.1	11.2	11.0	9.6	10.7	10.5	9.9	10.6	11.0
MIN	10.8	11.6	11.5	12.1	12.8	12.6	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	12.6	10.3	10.5	12.7	12.0	10.3	11.9	11.8	10.4	11.6	12.4
DUR	4	6	5	2	3	4	4	5	3	3	5	5	3	4	3	3	4	3	4	5	3	3	4	3	3
0- 1	3.0	8.5		3.5			2.5				4.0					5.0		6.5		8.0		3.0	6.5		5.5
1- 2						9.0	6.0	4.5			2.5		7.5			7.5		3.0	10.0	7.0		8.0	4.5		
2- 3			6.5			7.0					8.5		5.5				8.5	9.0	7.0	6.0		3.0	2.5	9.0	
3- 4	8.0	6.0		9.0			3.0			2.5	7.5	3.0	3.5				6.5	5.0	4.5	4.5		8.0		8.0	4.5
4- 5	2.5		3.0	7.0			6.5	7.5		3.5	6.0	4.5					5.0				9.5	3.0	9.0	6.5	9.0
5- 6			9.0	5.0	9.5					4.5	4.5	6.0		6.0			3.5	7.5	9.5	2.5		8.0	7.0	5.0	
6- 7	7.5	3.5		3.0		9.5	3.5	4.0		5.5	3.0	7.5	8.5		7.0			3.5	7.0			3.0	4.5	3.5	3.5
7- 8	4.5		5.0		8.5	7.5	7.0			7.0	9.0	9.0	6.5	5.0		9.5			4.0			7.5	2.5		8.0
8- 9		7.5								8.0	7.5		4.0					6.0				3.0			
9-10	9.5			8.0			4.0	7.0	3.0		6.0			4.0	3.0		8.5	2.5	9.0	9.5		7.5	9.0		2.5
10-11	7.0		7.0	6.0	2.0		7.0		3.5		4.5						6.5	8.5	6.5	8.0		3.0	7.0	9.0	7.0
11-12	4.0	5.0		4.0				3.5	4.0		3.0	2.5	9.0	2.5		6.5	5.0	4.5	3.5	7.0		7.5	5.0	7.5	
12-13			3.5	2.5		8.0	4.5	9.5	4.5		9.0	4.0	7.0			9.0	3.5				6.0	3.0	2.5	6.0	
13-14	9.0	9.0	9.0				7.5		5.5		7.5	6.0	5.0					7.0	9.0	5.0		7.5		4.5	6.0
14-15	6.5			9.5	9.5			6.5	6.0		6.0	7.5	3.0					3.0	6.0	3.5		3.0	9.5	3.0	
15-16	3.5		5.5	7.5			5.0		6.5	3.0	4.5	9.0		3.5				9.5	3.5	2.5		7.5	7.0		
16-17		6.5		5.5			8.0	3.0	7.5	4.0	3.0		9.5		6.0	8.5	5.5					2.5	5.0		5.0
17-18	8.5			3.5		8.5	2.0	9.0	8.0	5.0	9.0		7.5		8.5	6.5			8.5			7.5	3.0		9.5
18-19	6.0		7.5				5.5		8.5	6.5	7.5		5.5	6.5			5.0	8.0	6.0			2.5		8.5	
19-20		3.5			2.5		8.5	6.0	9.5	7.5	6.0	2.5	3.5				3.5	4.0	3.0	9.5		7.5	9.5	7.5	4.0
20-21			4.0	8.5			2.5			8.5	4.5	4.0		5.5							8.5	2.5	7.5	6.0	8.5
21-22	8.0	7.5	9.5	6.5			6.0	2.5			3.0	5.5						6.5	8.0	7.0		7.5	5.5	4.5	
22-23	5.5			5.0		8.5	9.0	8.5			9.0	7.0	8.0	4.0	8.0	10.0	2.5	5.5	6.0		2.5	3.0	3.0	3.0	3.0
23-24			6.0	3.0	10.0		3.0				7.5	8.5	6.0				8.0	9.0	2.5	5.0		7.5			7.5
24-25		5.0					6.5	5.5			6.0		4.0	3.0			6.5	5.0		4.0		2.5	10.0		
25-26	8.0		2.5				9.5				4.5						5.0		8.0	2.5		7.5	7.5		
26-27	5.0	9.0	8.0	8.0			3.5			2.5	3.0			2.5			3.5	7.5	5.0			2.5	5.5	8.5	6.5
27-28				6.0		9.0	6.5	8.0		3.5	9.0		9.0		7.5			3.5	2.5			7.5	3.5	7.0	
28-29			4.5	4.0	2.5				3.0	4.5	7.5	3.5	6.5					10.0				2.5		5.5	
29-30	7.5	6.5					4.0	5.0	3.5	6.0	6.0	5.0	4.5	8.0			10.0	6.0	7.5	9.5		7.0		4.0	5.5
30-31	4.5						7.0		4.0	7.0	4.5	6.5	2.5				8.0		5.0	8.5		2.5	8.0	2.5	10.0

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	DY	UU	RR	SS	TV	WW	SZ	RZ	AV	RV
	HER	HYA	LEO	LEO	LEO	LEO	LYN	LYR	PEG	UMA
MAX	10.2	10.7	10.0	10.5	11.5	11.0	9.1	10.0	9.9	10.1
MIN	10.6	12.3	11.7	12.0	12.6	12.0	-9.6	12.0	10.9	11.2
DUR	2	6	3	5	6	7	2	3	3	4

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

	SW	XX	AT	SW	TZ	BH	RS	ST	SW	SZ	TV	TW	UU	UY	RW	TT	RR	XZ	DM	RW	XZ	RR	TW	VX	AR	
	AND	AND	AND	AQR	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CNC	CNC	CET	CYG	CYG	DRA	DRA	GEM	HER	HER	HER	
MAX	9.3	10.3	10.8	10.5	11.2	11.1	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	10.7	11.0	9.3	9.1	11.2	11.0	9.6	10.7	10.5	9.9	10.6	
MIN	10.8	11.6	11.5	12.1	12.8	12.6	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	12.6	12.3	10.3	10.5	12.7	12.0	10.3	11.9	11.8	10.4	11.6	
DUR	4	6	5	2	3	4	4	5	3	3	5	5	3	4	3	4	3	4	3	4	5	3	3	4	3	
0- 1	2.0	10.5	6.5	9.5	6.0		1.5	1.5	4.5		3.0						4.5	6.5	8.5	2.0	7.5	10.0	7.0	5.5	1.5	
1- 2	9.5	4.0		7.5	10.0	9.5	4.5		5.5		1.5						7.0	5.0	4.5	10.0	6.5		2.5	3.5		
2- 3	7.0		3.0	5.5		7.5			6.0								9.5	3.5	10.5	7.0	5.0	9.5	7.0	1.5	9.5	
3- 4	4.0	8.0	8.5	3.5	9.0	5.5	1.5	4.5	6.5		6.0		5.5			9.5		2.0	7.0	4.5	4.0		2.5		8.0	
4- 5	1.5	1.5		1.5			5.0				4.5	1.5	3.0		9.5				3.0	1.5	3.0	9.5	7.0		7.0	
5- 6	9.0		5.0	10.5	8.0						3.0	3.0					4.0	10.0	9.0	9.5	1.5		2.0	6.0	5.5	
6- 7	6.5	5.5	10.5	8.5		10.0	2.0	7.0		2.0	1.5	4.5		3.5			6.5	8.0	5.5	7.0		9.0	7.0	4.0	4.0	
7- 8	3.5		1.5	6.5	7.0	8.0	5.5			3.0		6.0					9.0	6.5	1.5	4.0			2.0	1.5	2.5	
8- 9		9.5	7.0	4.5		6.0		4.0		4.0	6.0	7.5	6.0	2.5				5.0	8.0	1.5	10.0	8.5	7.0			
9-10	8.5	2.5		2.5			2.5			5.5	4.5		4.0					3.5	4.0	9.5	8.5		2.0			
10-11	6.0		3.5		10.0		6.0			6.5	3.0		2.0		10.0			2.0	10.0	6.5	7.5	8.5	7.0	6.0	9.5	
11-12	3.0	7.0	9.0	10.0		10.5		6.5			1.5						6.0		6.5	4.0	6.5		2.0	4.0	8.0	
12-13				8.0	9.0	8.5	3.0				7.5					10.0	8.5	10.0	2.5		5.5	8.0	7.0	2.0	6.5	
13-14	8.0		5.5	6.0		6.0	6.0	3.0			6.0	2.5	6.5					8.0	8.5	9.0	4.0		2.0		5.0	
14-15	5.5	4.0		4.0	8.0				1.5		4.5	4.0	4.5					6.5	5.0	6.0	3.0		7.0		3.5	
15-16	2.5		2.0	2.0			3.5		2.0		3.0	6.0	2.5					5.0		3.5	2.0		2.0	6.5	2.0	
16-17	10.5	8.0	7.5		7.0	11.0	6.5	6.0	3.0		1.5	7.5			10.5		5.5	3.5	7.0				7.0	4.0		
17-18	7.5	1.5		9.0		8.5			3.5	1.5	7.5			5.0			8.0	1.5	3.5	8.5			2.0	2.0	10.5	
18-19	5.0		4.0	7.0		6.5	4.0	2.5	4.0	2.5	6.0		7.0				10.5		9.5	6.0	10.0		6.5		9.0	
19-20	2.0	5.5	9.5	5.0	10.5		7.0	8.5	5.0	3.5	4.5		5.0	4.0				9.5	6.0	3.0	9.0		2.0		7.5	
20-21	10.0			3.5			1.0		5.5	5.0	3.0		3.0					8.0	2.0		7.5		6.5	6.5	6.5	
21-22	7.0	9.5	6.0	1.5	9.5		4.5	5.5	6.0	6.0	1.5	2.5		2.5			5.0	6.5	8.0	8.5	6.5		2.0	4.5	5.0	
22-23	4.5	3.0		10.5		9.0	7.5		6.5	7.0	7.5	4.0					7.5	5.0	4.5	5.5	5.5		6.5	2.5	3.5	
23-24	1.5		2.5	8.5	8.5	7.0	1.5	2.0	7.5		6.0	5.5	8.0	1.5			10.0	3.5	10.5	3.0	4.5		2.0		2.0	
24-25	9.5	7.0	8.0	6.5			5.0	8.0			4.5	7.0	6.0					1.5	6.5	10.5	3.0		6.5			
25-26	7.0			4.5	7.5		8.0				3.0	8.5	3.5						3.0	8.0	2.0	10.5	2.0	7.0	10.5	
26-27	4.0		4.5	2.5			2.0	5.0			1.5		1.5					9.5	9.0	5.0			6.5	4.5	9.0	
27-28		4.5	10.0			9.5	5.5				7.5						7.0	8.0	5.0	2.5		10.5	1.5	2.5	7.5	
28-29	9.0			9.5	1.0	7.5		1.5			6.0		8.5				9.5	6.5	1.5	10.5	10.0		6.5		6.0	
29-30	6.5	8.5	6.5	7.5			2.5	7.5		2.0	4.5	2.0	6.5					5.0	7.5	7.5	9.0	10.0	1.5		4.5	

	DL	DY	RR	SZ	RZ	AV	RV
	HER	HER	LEO	LYN	LYR	PEG	UMA
MAX	11.0	10.2	10.0	9.1	10.0	9.9	10.1
MIN	12.4	10.6	11.7	-9.6	12.0	10.9	11.2
DUR	3	2	3	2	3	3	4

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

	SW	XX	AT	SW	TZ	BH	RS	ST	SW	SZ	TV	TW	UU	UY	RW	TT	RR	XZ	DM	RW	XZ	RR	TW	VX	AR	
	AND	AND	AND	AQR	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CNC	CNC	CET	CYG	CYG	DRA	DRA	GEM	HER	HER	HER	
MAX	9.3	10.3	10.8	10.5	11.2	11.1	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	10.7	11.0	9.3	9.1	11.2	11.0	9.6	10.7	10.5	9.9	10.6	
MIN	10.8	11.6	11.5	12.1	12.8	12.6	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	12.6	12.3	10.3	10.5	12.7	12.0	10.3	11.9	11.8	10.4	11.6	
DUR	4	6	5	2	3	4	4	5	3	3	5	5	3	4	3	4	3	4	3	4	5	3	3	4	3	
0-1	3.5	2.0		6.0	9.5	3.0				3.0	3.0	3.5	4.5			11.0	1.0	3.5	4.0	5.0	8.0	5.0	6.5		3.0	
1-2	1.0		3.0	4.0	4.5			4.5			1.5	5.0	2.5				3.5	1.5	10.0	2.0	6.5	9.5	1.5	5.0	1.5	
2-3	8.5	6.0	8.5	2.0	8.5	10.0	3.0		1.0						7.5		6.0	11.5	6.0	10.0	5.5	6.5	2.5			
3-4	6.0					8.0		1.0	1.5						9.5		9.0	9.5	2.5	7.5	4.5	9.5	1.5	0.5		
4-5	3.0	10.0	5.0		7.5	5.5			2.0		4.5					9.5	11.5	8.0	8.5	4.5	3.5		6.5			
5-6	11.0	3.0	10.5	7.0		3.5	3.5		3.0		3.0		5.0					6.5	4.5	2.0	2.0	9.0	1.5		7.0	
6-7	8.0		1.5	5.0	6.5			4.0	3.5		1.5		3.0	2.0			3.0	5.0	1.0	9.5	1.0		6.5	5.0	6.0	
7-8	5.5	7.5	7.0	3.0	11.0	10.5	1.0		4.0			1.5	1.0				5.5	3.5	7.0	7.0	11.5	8.5	1.5	3.0	4.5	
8-9	2.5	0.5		1.0	5.5	8.0	4.0	0.5				3.0		1.0	8.0	8.0	8.0	1.5	3.0	4.0	10.0		6.0	1.0	3.0	
9-10	10.5	11.5	3.5		10.0	6.0				0.5	4.5	4.5			10.0	11.0	10.5	11.5	9.5	1.5	9.0	8.5	1.5		1.5	
10-11	7.5	4.5	9.0	8.5	4.5	4.0	1.0			1.5	3.0		5.5					9.5	5.5	9.5	8.0		6.0			
11-12	5.0			6.5	9.0		4.5	3.5		2.5	1.5		3.5				2.5	8.0	2.0	6.5	7.0	8.0	1.5	5.5		
12-13	2.0	8.5	5.5	4.5		10.5				4.0			1.5				5.0	6.5	8.0	4.0	5.5		6.0	3.0		
13-14	10.0	2.0	11.0	2.5	8.0	8.5	1.5									10.0	7.5	5.0	4.0	1.0	4.5	7.5	1.5	1.0	7.0	
14-15	7.0		2.0			6.5	5.0	6.0			4.5				8.5		10.0	3.0	10.5	9.0	3.5		6.0		5.5	
15-16	4.5	6.0	7.5	9.5	7.0	4.5					3.0	1.0	6.0	10.5			10.5	1.5	6.5	6.5	2.5	7.5	1.5		4.0	
16-17	1.5			7.5	11.0		2.0	3.0			1.5	2.5	4.0					2.0	11.0	2.5	3.5	1.0		6.0	5.5	2.5
17-18	9.5	10.0	4.0	5.5	6.0	11.0	5.5					4.0	2.0			8.5	4.5	9.5	9.0	1.0	11.5	7.0	1.0	3.5	1.0	
18-19	6.5	3.5	9.5	3.5	10.0	9.0					6.0	6.0				11.5	7.0	8.0	5.0	8.5	10.5		6.0	1.0		
19-20	4.0			1.5	5.0	7.0	2.5	5.5			4.5			2.5			9.5	6.5	1.0	6.0	9.5	7.0	1.0			
20-21	1.0	7.5	6.0		9.0	5.0	5.5				3.0				8.5			5.0	7.5	3.0	8.0	11.5	6.0		8.0	
21-22	9.0	1.0	11.5	9.0				2.5	1.0	1.0	1.5		5.0	1.5	11.0			3.0	3.5	0.5	7.0	6.5	1.0	5.5	6.5	
22-23	6.0		2.5	7.0	8.0	11.5	3.0		1.5	2.0			2.5			10.0	4.0	1.5	10.0	8.5	6.0	11.0	6.0	3.5	5.5	
23-24	3.5	5.0	8.0	5.0		9.5			2.0	3.5	6.0	1.0	0.5				6.5	11.0	6.0	5.5	4.5		1.0	1.5	4.0	
24-25	0.5			3.0	7.0	7.5		5.0	3.0	4.5	4.5	2.5					9.0	9.5	2.0	3.0	3.5	10.5	6.0		2.5	
25-26	8.5	9.0	4.5	1.0	11.5	5.0	3.5		3.5	5.5	3.0	4.0						8.0	8.5	11.0	2.5		1.0		1.0	
26-27	6.0	2.5	10.0	10.0	6.0			2.0	4.0		1.5	5.5	5.5		9.0	9.0		6.5	4.5	8.0	1.5	10.5	6.0	6.0		
27-28	3.0		1.0	8.0	10.5		0.5		5.0			7.0	3.5		11.5		3.5	5.0	0.5	5.5			1.0	3.5	9.5	
28-29	11.0	6.5	6.5	6.0		10.0	4.0		5.5		6.0		1.5				6.0	3.0	7.0	2.5	10.5	10.0	6.0	1.5	8.0	
29-30	8.0			4.0	9.5	7.5		4.5	6.0		4.5						8.5	1.5	3.0	10.5	9.5		1.0		6.5	
30-31	5.5	10.5	3.0	2.5		5.5	1.0				3.0			4.0			11.0	11.0	9.5	7.5	8.5	9.5	5.5		5.0	

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	DL	DY	SZ	UU	VX	DH	RR	WW	SZ	RZ	AV	RV
	HER	HER	HYA	HYA	HYA	HYA	LEO	LEO	LYN	LYR	PEG	UMA
MAX	11.0	10.2	10.6	10.7	10.0	11.4	10.0	11.0	9.1	10.0	9.9	10.1
MIN	12.4	10.6	11.7	12.3	10.7	12.6	11.7	12.0	-9.6	12.0	10.9	11.2
DUR	3	2	4	6	3	4	3	7	2	3	3	4

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

	SW	XX	AT	SW	TZ	BH	RS	ST	SW	SZ	TV	TW	UU	UY	RW	TT	RR	XZ	DM	RW	XZ	RR	TW	VX	AR
	AND	AND	AND	AQR	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CNC	CNC	CET	CYG	CYG	DRA	DRA	GEM	HER	HER	HER
MAX	9.3	10.3	10.8	10.5	11.2	11.1	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	10.7	11.0	9.3	9.1	11.2	11.0	9.6	10.7	10.5	9.9	10.6
MIN	10.8	11.6	11.5	12.1	12.8	12.6	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	12.6	12.3	10.3	10.5	12.7	12.0	10.3	11.9	11.8	10.4	11.6
DUR	4	6	5	2	3	4	4	5	3	3	5	5	3	4	3	4	3	4	3	4	5	3	3	4	3
0- 1	2.5	3.5	8.5	0.5	8.5	3.5		1.0			1.5	0.5		11.0	7.5	10.5	0.5	9.5	5.5	5.0	7.0	5.0	1.0		3.5
1- 2	10.5				3.0	1.5				0.5		2.0			9.5		3.0	8.0	1.5	2.0	6.0	9.5			2.0
2- 3	7.5	7.5	5.0		7.5	10.0	1.5			1.5			2.0				5.5	6.5	8.0	10.0	5.0	4.5	1.0	2.0	0.5
3- 4	5.0	1.0	10.5	5.5	2.0	8.0							11.0			6.0	8.0	5.0	4.0	7.5	4.0	9.0			10.5
4- 5	2.0	12.0	1.0	3.5	6.5	6.0			10.0		3.0					9.0	10.5	3.0		4.5	2.5	4.0	1.0		
5- 6	10.0	5.0	7.0	1.5	10.5	4.0	2.0	0.5	10.5		1.5				5.5			1.5	6.5	2.0	1.5	9.0	5.5		
6- 7	7.0				5.5	2.0			11.5					9.5		8.0		2.5	11.0	2.5	10.0	0.5	4.0	0.5	
7- 8	4.5	9.0	3.5		9.5	10.5					11.0	2.5		10.0		5.0	9.5	8.5	7.0	10.5	8.5	5.5	2.0	5.0	
8- 9	1.5	2.5	9.0	7.0	4.5	8.5	2.5	3.5	0.5				0.5			8.0	7.5	8.0	5.0	4.5	9.5	3.5	0.5		3.5
9-10	9.5			5.0	8.5	6.5			1.0		3.0	1.5				11.0	10.0	6.5	1.0	1.5	8.5	8.0	5.5		2.0
10-11	6.5	6.5	5.5	3.0	3.5	4.5			1.5		1.5	3.0						5.0	7.5	9.5	7.5		0.5		0.5
11-12	4.0		11.0	1.0	7.5	2.0	3.0		2.5	11.5					6.0		2.0	3.0	3.5	6.5	6.0	8.0	5.5		10.5
12-13	1.0	10.5	1.5		2.5	11.0			3.0				3.0		8.5	6.5	4.5	1.5	9.5	4.0	5.0		0.5	2.0	
13-14	9.0	4.0	7.5		6.5	9.0	0.5	3.0		1.0			1.0	11.5	10.5	9.5	7.0	11.0	6.0	1.5	4.0	7.5	5.5		
14-15	6.0			6.0	10.5	7.0				2.5	3.0						9.5	9.5	2.0	9.0	3.0		0.5		6.0
15-16	3.5	8.0	3.5	4.0	5.5	4.5					1.5	11.0						8.0	8.0	6.5	1.5	7.0	5.5		4.5
16-17	0.5	1.5	9.5	2.0	9.5	2.5	0.5				0.0						1.5	6.5	4.5	3.5	0.5	11.5	0.5		3.0
17-18	8.5				4.5	11.5						1.0	4.0		6.5	8.0	4.0	4.5	0.5	1.0	11.0	7.0	5.5	2.5	1.5
18-19	5.5	5.5	6.0		8.5	9.5		2.5				2.5	2.0	1.0	9.0	11.5	6.5	3.0	6.5	9.0	9.5	11.5	0.5	0.5	0.0
19-20	3.0		11.5	7.5	3.5	7.0	1.0				3.5	4.5			11.0		9.0	1.5	3.0	6.0	8.5	6.5	5.0		
20-21	11.0	9.5	2.0	5.5	7.5	5.0					2.0						11.5	11.0	9.0	3.5	7.5	11.0	0.5		
21-22	8.0	2.5	8.0	3.5		3.0					0.5					7.0	0.5	9.5	5.5	0.5	6.5	6.0	5.0		7.0
22-23	5.0			1.5	6.5		1.5						4.5			10.0	3.5	8.0	1.5	8.5	5.0	11.0	0.5	2.5	6.0
23-24	2.5	7.0	4.0		11.0	9.5		2.0					2.5		7.0		6.0	6.5	7.5	5.5	4.0	6.0	5.0	0.5	4.5
24-25	10.5		10.0		5.5	7.5				0.5	3.5		0.5		9.0		8.5	4.5	4.0	3.0	3.0	10.5	0.5		3.0
25-26	7.5	11.0	0.5	6.5	10.0	5.5	2.0		11.5	2.0	2.0	1.0		11.5		11.0	3.0	10.0	0.5	2.0	5.5	5.0			1.5
26-27	5.0	4.0	6.5	4.5	4.5	3.5		4.5		3.0	0.5	2.5				8.5		1.5	6.0	8.0	0.5	10.0	0.5		11.5
27-28	2.0			2.5	9.0				0.5			4.0				11.5	2.5	11.0	2.5	5.5	11.0	5.0	5.0	3.0	
28-29	10.0	8.0	2.5	1.0	3.5	10.0	2.5	1.5	1.0				3.0				5.5	9.5	8.5	2.5	10.0	10.0		0.5	
29-30	7.0	1.5	8.5		8.0	8.0			1.5		3.5		1.0		7.5		8.0	8.0	4.5	10.5	8.5	5.0	5.0		7.0

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	DL	DY	SZ	UU	VX	DG	DH	RR	SS	TV	WW	SZ	RZ	AV	RV
	HER	HER	HYA	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LYN	LYR	PEG	UMA
MAX	11.0	10.2	10.6	10.7	10.0	11.6	11.4	10.0	10.5	11.5	11.0	9.1	10.0	9.9	10.1
MIN	12.4	10.6	11.7	12.3	10.7	12.6	12.6	11.7	12.0	12.6	12.0	-9.6	12.0	10.9	11.2
DUR	3	2	4	6	3	4	4	3	5	6	7	2	3	3	4

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

	SW	XX	AT	SW	TZ	BH	RS	ST	SW	SZ	TV	TW	UU	UY	RW	TT	RR	XZ	DM	RW	XZ	RR	TW	VX	AR
	AND	AND	AND	AQR	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CNC	CNC	CET	CYG	CYG	DRA	DRA	GEM	HER	HER	HER
MAX	9.3	10.3	10.8	10.5	11.2	11.1	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	10.7	11.0	9.3	9.1	11.2	11.0	9.6	10.7	10.5	9.9	10.6
MIN	10.8	11.6	11.5	12.1	12.8	12.6	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	12.6	12.3	10.3	10.5	12.7	12.0	10.3	11.9	11.8	10.4	11.6
DUR	4	6	5	2	3	4	4	5	3	3	5	5	3	4	3	4	3	4	3	4	5	3	3	4	3

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

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	DL	DY	SZ	UU	VX	DG	DH	RR	SS	TV	WW	SZ	RZ	AV	RV
	HER	HER	HYA	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LYN	LYR	PEG	UMA
MAX	11.0	10.2	10.6	10.7	10.0	11.6	11.4	10.0	10.5	11.5	11.0	9.1	10.0	9.9	10.1
MIN	12.4	10.6	11.7	12.3	10.7	12.6	12.6	11.7	12.0	12.6	12.0	-9.6	12.0	10.9	11.2
DUR	3	2	4	6	3	4	4	3	5	6	7	2	3	3	4

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