

	SW	XX	AT	SW	TZ	YZ	AA	BO	BR	DN	TZ	RS	ST	SW	SZ	TV	TW	UU	UY	UY	RW	TT	VZ
	AND	AND	AND	AQR	AQR	AQR	AQR	AQR	AQR	AQR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CAM	CNC	CNC
MAX	9.3	10.3	10.8	10.5	11.6	12.1	11.4	11.6	10.8	10.7	11.2	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	11.5	10.7	11.0	7.2
MIN	10.8	11.6	11.5	12.1	12.4	12.9	13.0	12.6	11.9	11.5	12.8	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	11.9	12.6	12.3	7.9
RISE	2	3	3	1	3	2	2	3	2	3	2	2	3	2	2	3	2	1	2	3	2	3	1
0- 1				11.0		10.0	10.5			9.5		2.0	7.0	9.0	7.5	6.5	7.0				2.5		
1- 2				9.0								5.5		9.5	8.5	5.0	8.5	10.5			4.5		
2- 3	8.0		9.5	7.0				9.0				8.5	3.5	10.5	9.5	3.5	10.5	8.5	8.5		6.0		
3- 4		9.0		5.0	8.5							2.5	9.5			2.0			6.0			2.0	
4- 5			5.5			6.5		11.0				6.0						4.0	7.0	3.0	4.0	2.0	3.0
5- 6	10.5					9.0	7.5					9.0	6.5			6.5	2.0	2.0			4.5		
6- 7	7.5			10.0							3.0	3.0				5.0	3.5		6.0	6.0			
7- 8			7.5	8.0	8.5					9.0		6.0	3.0		2.5	3.5	5.5	9.0					
8- 9		10.5		6.0			8.5				2.0		9.0	2.0	3.5	2.0	7.0	7.0	5.0	3.0			
9-10	10.0							7.5				3.5		2.5	4.5		8.5	5.0		4.5	2.5		3.0
10-11	7.0		10.0			8.5			10.0			6.5	6.0	3.0	5.5	7.0	10.0	2.5	4.0	6.5	4.5		
11-12		8.0			8.5	10.5	9.5	9.5	9.0						4.0	7.0	5.5						
12-13			6.0	9.5					8.5	10.5		4.0	2.5	4.5	8.0	4.0		9.5	2.5	3.0			
13-14	9.5			7.5								7.0	8.5	5.0	9.0	2.5	2.0	7.5		5.0		2.5	
14-15	6.5			5.5			10.5							6.0	10.0		3.5	5.5					3.0
15-16			8.0		8.5	7.5				3.0	4.5	5.5	6.5			7.0	5.0	3.5			3.0		
16-17		9.5				10.0						7.5		7.0		5.5	6.5				3.5		
17-18	9.0			10.5							2.0		2.0	8.0		4.0	8.0	10.0	7.5	5.0			
18-19			10.0	9.0				8.0				5.0	8.0	8.5	2.0	2.5	9.5	8.0					
19-20				7.0	8.5		7.5			10.0		8.0		9.0	3.0			6.0	6.5	2.0			2.5
20-21			6.5			6.5		10.0				2.0	5.0	9.5	4.0	7.0		4.0		3.5			
21-22	8.5	10.5				9.0						5.5	10.5		5.0	5.5		2.0	5.5	5.0	3.5		
22-23							8.5					8.5			6.5	4.0	3.0	11.0				2.5	
23-24			8.5	10.0	8.5				10.5			2.5	7.5		7.5	2.5	4.5	8.5	4.0	2.0			
24-25		8.0		8.0					9.5		3.5	5.5			8.5		6.0	6.5		3.5			2.5
25-26	8.0		5.0	6.0			10.0		8.5			9.0	4.5		9.5	7.0	7.5	4.5	3.0	5.0			
26-27			10.5			8.5				9.5	2.5	3.0	10.0			5.5	9.0	2.5					
27-28					8.5	11.0		8.5				6.0		2.0		4.0	10.5		2.0	2.0	4.0		
28-29	10.5		7.0				11.0						7.0	2.5		2.5		9.5		3.5			
29-30	7.5	9.5		9.5				10.5				3.5		3.5				7.5		5.5			2.5

	VZ	KV	SS	RV	RZ	VW	YZ	AN	RR	RU	RX	RZ	UU	S	XX	XZ	DM	RW	XZ	RR	TW	VX	VZ
	CNC	CNC	CVN	CAP	CAP	CAP	CAP	CAP	CET	CET	CET	CET	CET	COM	CYG	CYG	CYG	DRA	DRA	GEM	HER	HER	HER
MAX	7.2	11.9	11.2	10.2	12.5	12.6	11.0	12.0	9.3	10.8	11.0	11.2	11.5	10.9	11.4	9.1	11.2	11.0	9.6	10.7	10.5	9.9	10.7
MIN	7.9	13.0	12.5	11.6	13.5	13.5	11.6	13.0	10.3	12.1	11.7	12.4	12.4	12.1	12.5	10.5	12.7	12.0	10.3	11.9	11.8	10.4	12.0
RISE	1	2	2	2	3	2	3	5	2	3	3	2	3	3	1	3	2	2	3	2	2	2	2
0- 1				7.5	6.0										6.0		6.0	2.0				4.5	8.0
1- 2	2.5																7.0	3.0		3.0	5.0	2.0	5.0
2- 3			9.0		6.0	7.0								5.0	6.5	9.5						9.5	2.0
3- 4			8.0			6.0		9.0							2.0	8.0	9.5	8.0	10.0	2.5	4.5	9.0	10.0
4- 5			7.0	8.5	6.0										7.0	6.5	5.5	5.5	9.0		9.5	6.5	7.0
5- 6			6.0	6.0						10.5					3.5	2.5	4.5	2.5	7.5	2.5	4.5	4.5	4.0
6- 7	2.0		5.0		6.5				10.5				9.0	7.5	7.5	3.0	8.0	10.5	6.5		9.5	2.5	
7- 8			4.0												3.0		4.0	8.0	5.5	2.0	4.5		9.0
8- 9			3.0	9.0	6.5	6.5		9.0							2.0	8.0		5.0	4.5		9.5	9.0	6.0
9-10			2.0	6.5									10.0	6.0	3.5	9.5	6.5	2.5	3.0		4.5	7.0	3.5
10-11					6.5		6.0								9.0	8.0		10.5	2.0		9.5	5.0	
11-12	2.0								10.0						4.0	6.5	9.0	7.5			4.5	2.5	8.0
12-13				10.0	6.5								10.5	4.5	9.5	4.5	5.0	5.0			9.5		5.5
13-14			9.0	7.0		7.0	6.0	9.0							4.5	3.0		2.0	10.0		4.5	9.5	2.5
14-15			8.0		7.0	6.0											7.5	10.0	9.0		9.5	7.0	10.0
15-16			7.0							10.0				3.0	5.5		3.5	7.0	8.0		4.5	5.0	7.0
16-17	2.0		6.0	10.5	7.0		6.5		9.5					7.0		9.5	10.0	4.5	6.5		9.0	3.0	4.5
17-18			5.0	8.0											6.0	8.0	6.0	2.0	5.5		4.5		
18-19			4.0		7.0			8.5								6.5		9.5	4.5		9.0	9.5	9.0
19-20			3.0			6.5	6.5							5.5	6.5	4.5	8.5	7.0	3.5		4.5	7.5	6.5
20-21			2.0		7.0						9.5				2.0	3.0	4.5	4.0	2.0		9.0	5.0	3.5
21-22	2.0			8.5											7.0						4.5	3.0	
22-23				6.0	7.5								10.5	4.0	2.5		7.0	9.5			9.0		8.5
23-24								8.5							7.5	9.5		6.5	10.0		4.5	9.5	5.5
24-25			9.5		7.5	7.0					10.0				3.0	8.0	9.5	4.0	9.0		9.0	7.5	2.5
25-26			8.5	9.5		6.0								2.0	8.0	6.0	5.5		8.0		4.0	5.5	10.5
26-27			7.0	7.0	7.5								9.0	6.5	3.5	4.5		9.0	7.0		9.0	3.5	7.5
27-28			6.0												8.5	3.0	8.0	6.0	5.5		4.0		4.5
28-29		2.0	5.0		7.5			8.0		10.0					4.0		4.0	3.5	4.5		9.0	10.0	
29-30		2.0	4.0	10.0									10.0	5.0	9.0				3.5		4.0	8.0	9.5

all times in U.T.

	AR	DL	DY	DY	DY	LS	SZ	UU	DG	DH	GO	RR	SS	ST	TV	WW	AA	VY	SZ	SZ	SZ	RR	RZ	
	HER	HER	HER	HER	HER	HER	HYA	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LEO	LEO	LMI	LYN	LYN	LYN	LYR	LYR	
MAX	10.6	11.0	10.2	10.2	10.2	10.8	10.6	10.7	11.6	11.4	11.6	10.0	10.5	10.8	11.5	11.0	11.3	13.6	9.1	9.1	9.1	7.1	10.0	
MIN	11.6	12.4	10.6	10.6	10.6	11.1	11.7	12.3	12.6	12.6	12.2	11.7	12.0	12.3	12.6	12.0	12.4	14.6	9.6	9.6	9.6	8.1	12.0	
RISE	2	1	1	1	1	2	2	2	3	2	3	2	2	2	2	3	2	2	1	1	1	2	2	
0- 1	3.5	3.0	2.5	6.0	9.5	3.5		3.5				4.5								4.0			8.5	
1- 2	2.0	7.5	10.5	3.5	7.0	2.0						2.0							3.5			4.5	9.0	
2- 3			8.0		4.5	5.5							3.5				3.0				2.5	8.0	9.5	
3- 4	10.0	2.0	5.5	9.0		3.5															4.5		10.0	
4- 5	9.0	6.5	2.5	6.5	10.0	2.0								2.0			2.0			3.5			10.5	
5- 6	7.5	11.0		3.5	7.0	5.5						4.0					3.0	3.0	3.0			4.0		
6- 7	6.0		8.0		4.5	3.5				1.5				6.0	2.5			4.5			2.0	7.0		
7- 8	4.5	5.5	5.5	9.0	2.0	2.0							4.0	5.0							4.0	10.0		
8- 9	3.0	10.0	3.0	6.5	10.0	5.5				2.5				4.0	3.0		3.0			3.0				
9-10				4.0	7.5	3.5				2.0				3.0					2.5			3.0		
10-11		4.5	8.5		5.0	2.0		2.5				3.5		2.0	3.5				4.5			6.0		
11-12	10.0	8.5	6.0	9.5	2.5	5.5		3.5									2.5				3.5	9.5	2.0	
12-13	8.5		3.5	7.0	10.5	3.5							4.0		4.0						2.5		2.5	
13-14	7.0	3.5		4.5	8.0	2.0					2.0										4.5	2.0	3.0	
14-15	5.5	7.5	9.0		5.0	5.5						5.0			4.5	2.0	2.5	2.0	4.0			5.5	3.5	
15-16	4.0		6.0	10.0	2.5	3.5						3.0						3.0			3.0	8.5	4.0	
16-17	3.0	2.5	3.5	7.0		2.0									4.5			4.5		2.0			4.5	
17-18		6.5		4.5	8.0	5.5							4.5	6.0		2.0	2.5			4.0			5.0	
18-19			9.0	2.0	5.5	3.5								5.0					3.0			4.5	5.5	
19-20	9.5		6.5	10.0	3.0	2.0						4.5		4.0								2.5	8.0	6.0
20-21	8.5	5.5	4.0	7.5		5.5	2.5				2.0	2.0		3.0		2.5	2.0				4.5		7.0	
21-22	7.0	10.0		5.0	8.5	3.5		2.5													3.5		7.5	
22-23	5.5		9.5	2.5	6.0	2.0							4.5						2.5			4.0	8.0	
23-24	4.0	4.5	7.0	10.5	3.5	5.5										3.0	2.0		4.5		2.0	7.0	8.5	
24-25	2.5	9.0	4.0	8.0		3.5						4.0									4.0	10.5	9.0	
25-26				5.0	9.0	2.0												3.0		3.0			9.5	
26-27	11.0	3.5	10.0	2.5	6.0											3.0	2.0	4.0	2.0			3.0	10.0	
27-28	9.5	8.0	7.0		3.5	3.5	2.5		2.0		2.0		5.0					5.5	4.0			6.5	10.5	
28-29	8.0		4.5	8.0		2.0								6.0							3.5	9.5		
29-30	6.5	2.5	2.0	5.5	9.0							3.5	2.0	4.5		3.5				2.5				

all times in U.T.

	ST	AV	BH	DF	RV	TU
	OPH	PEG	PEG	SER	UMA	UMA
MAX	11.3	9.9	10.0	11.4	10.1	9.2
MIN	12.7	10.9	10.8	13.0	11.2	10.2
RISE	3	2	3	2	3	3
0- 1	5.5	4.5		5.0	6.0	3.0
1- 2	3.5	9.0	7.0	2.0	4.5	6.0
2- 3				10.0	3.0	
3- 4	9.5	7.5		7.0		
4- 5	7.0			4.0		
5- 6	4.5	6.5			9.5	3.5
6- 7	2.0		10.0	8.5	8.0	6.5
7- 8	10.5	5.5		5.5	6.5	
8- 9	8.0		8.0	2.5	5.0	
9-10	6.0			10.0	3.5	
10-11	3.5	8.5	6.0	7.0	2.0	4.0
11-12				4.0		7.0
12-13	9.5	7.0			10.0	
13-14	7.0			8.5	8.5	
14-15	4.5	6.0		5.5	7.0	2.0
15-16	2.5		9.0	2.5	5.5	4.5
16-17	11.0	5.0		10.0	4.0	
17-18	8.5	9.0	7.5	7.0	2.5	
18-19	6.0			4.0		
19-20	3.5	8.0			10.5	2.5
20-21				8.5	9.0	5.0
21-22	9.5	6.5		5.5	7.5	
22-23	7.5		10.5	2.5	6.0	
23-24	5.0	5.5		10.0	4.5	
24-25	2.5		8.5	7.0	3.0	2.5
25-26				4.0		5.5
26-27	8.5	8.5	6.5			
27-28	6.0			8.5	9.5	
28-29	4.0	7.5		5.5	8.0	
29-30				2.5	6.5	3.0