MAS Eclipsing Binary Ephemeris for July 2017 all times in U.T.

	RT AND	TW AND	UU AND	WZ AND	XZ AND	AB AND	AB AND	AD AND	BD AND	BX AND	DS AND	QX AND	QX AND	CX AQR	CZ AQR	XZ AQL	KO AQL	KP AQL	OO AQL	OO AQL	V342 AQL	V343 AQL	V346 AQL
MAX	9.3	8.8	11.2	11.6	10.0	9.3	9.3	11.1	11.3	8.6	10.8	11.3	11.3	10.7	10.3	9.3	8.3	9.7	9.2	9.2	9.0	10.6	9.0
MIN	10.2	11.0	14.1	12.6	13.0	10.2	10.2	11.6	11.7	9.5	11.4	11.6	11.6	12.0	11.2	11.2	9.3	10.5	10.1	10.1	12.5	12.3	10.4
DUR	3	11	8	4	3	3	3	4	3	4	4	3	3	3	3	7	5	4	3	3	7	4	4
TOT		2																			3		
							(S)	(S)			(S)		(S)							(S)			
0- 1		3.5	6.5			2.0	6.0	9.5	7.0	7.5	6.0	6.0	11.0	6.5					3.0	9.0			
1- 2	7.5			8.5		2.0	6.0	9.0	5.0		6.5		6.5	9.0		7.5			3.0	9.0		5.5	
2- 3					8.0	2.0	6.0	8.5	3.5		6.5	7.5					6.0		3.5	9.5	5.5		
3- 4	4.5		6.0	10.5		2.0	6.0	8.5		8.5	7.0		8.0			10.5			3.5	10.0		2.0	
4- 5	11.0	6.0				2.0	6.0	8.0	11.0		7.5	9.0		4.0	9.0				4.0	10.0			3.0
5- 6	2.0					9.5	5.5	7.5	9.0	4.5	7.5	4.5	9.5	6.5	5.5		2.5		4.5	10.5			5.5
6- 7	8.0		5.5	5.5	9.5	9.5	5.5	7.5	7.5	9.5	8.0	10.5	5.5	9.0					4.5	11.0			8.0
7- 8						9.5	5.5	7.0	5.5		8.0	6.0	11.0					5.5	5.0	11.0			10.5
8- 9	5.5	9.0		7.5		9.5	5.5	6.5	4.0	5.5	8.5		7.0						5.5				
9-10			4.5			9.0	5.0	6.5	2.0	11.0	8.5	7.5		4.0					5.5				
10-11	2.5			9.5		9.0	5.0	6.0			9.0		8.5	6.5	10.0				6.0			11.0	
11-12	9.0					9.0	5.0	5.5	9.5	7.0	9.0	9.0		9.0	6.5				6.5				
12-13			4.0			9.0	5.0	5.5	8.0		9.5	5.0	10.0						6.5		10.0	7.5	
13-14	6.0			4.0	4.5	9.0	5.0	5.0	6.0		9.5	10.5	5.5						7.0				
14-15						8.5	4.5	4.5	4.5	8.0	10.0	6.5		4.0		3.5			7.5			3.5	2.0
15-16	3.5			6.5		8.5	4.5	4.5	2.5		10.0		7.0	6.5					7.5				4.5
16-17	9.5					8.5	4.5	4.0			10.5	8.0		9.5	10.5	6.5			8.0	2.0			7.0
17-18				8.5	6.0	8.5	4.5	3.5	10.0	9.5	10.5		8.5		7.5			8.0	8.5	2.0			9.5
18-19	7.0					8.5	4.5	3.5	8.5		11.0	9.0	4.5			10.0			8.5	2.5			
19-20				10.5		8.0	4.0	3.0	6.5	5.0	11.0	5.0	10.0	4.0			10.0		9.0	3.0	4.5		
20-21	4.0					8.0	4.0	2.5	4.5	10.5		10.5	5.5	6.5					9.5	3.0			
21-22	10.5				8.0	8.0	4.0	2.5	3.0			6.5		9.5					9.5	3.5			
22-23				5.5		8.0	4.0	2.0		6.5			7.0				7.0		10.0	4.0			
23-24	7.5					8.0	4.0		10.5			8.0			8.5				10.5	4.0		9.0	
24-25				7.5		7.5	3.5		8.5				8.5	4.0					10.5	4.5			
25-26	5.0				9.5	7.5	3.5		7.0	7.5		9.5	4.5	7.0			3.5		11.0	5.0		5.5	3.5
26-27				9.5		7.5	3.5		5.0			5.0	10.0	9.5						5.0			6.0
27-28	2.5					7.5	3.5		3.5			11.0	6.0					10.0		5.5			8.5
28-29	8.5					7.5	3.5			9.0		6.5								6.0			11.0
29-30				4.0		7.0	3.0		11.0				7.5	4.0	9.5	3.0				6.0	8.5		
30-31	6.0					7.0	3.0		9.0	5.0		8.0		7.0	6.0					6.5			

	RX ARI	SS ARI	SS ARI	RY AUR	SX AUR	WW AUR	WW AUR	AP AUR	AP AUR	AR AUR	AR AUR	CL AUR	EM AUR	EP AUR	HP AUR	HP AUR	IM AUR	V459 AUR	V459 AUR	SS BOO	SS BOO	SS BOO	TU BOO
MAX	9.4	10.1	10.1	11.7	8.2	5.7	5.7	10.9	10.9	6.0	6.0	11.7	11.0	10.8	10.8	10.8	7.9	7.7	7.7	10.3	10.3	10.3	11.7
MIN	9.9	11.1	11.1	14.0	9.0	6.4	6.4	11.4	11.4	6.7	6.7	13.2	11.9	11.3	11.5	11.5	8.5	8.1	8.1	11.0	11.0	11.0	12.7
DUR	4	3	3	6	4	5	5	4	4	5	5	4	4	3	3	3	4	4	4	18	18	18	3
TOT																				6	6	6	
			(S)				(S)		(S)		(S)					(S)			(S)	(2)		(3)	
0- 1	7.0	11.0	6.0						11.0														7.5
1- 2	7.5	6.5		10.0			10.0					9.0											6.5
2- 3	8.5		7.0					11.0							8.0								6.0
3- 4	9.0	7.0															9.5						5.5
4- 5	10.0		7.5						10.5														4.5
5- 6	10.5	8.0			8.5																		4.0
6- 7			8.0					10.5				8.5		10.0									3.5
7- 8		8.5																					2.5
8- 9			9.0						10.5				9.0				9.5		11.0				2.0
9-10		9.5													11.0								
10-11			9.5					10.0															8.5
11-12		10.0			9.5															10.0			8.0
12-13			10.5	8.0					10.0														7.0
13-14		10.5	6.0														9.0						6.5
14-15		6.0	11.0													10.5							6.0
15-16			6.5							9.5													5.5
16-17		7.0																10.0					4.5
17-18			7.5		11.0						11.0												4.0
18-19		7.5															9.0						3.5
19-20			8.0											10.0	10.0						3.5	6.5	2.5
20-21		8.5						2.5															2.0
21-22			8.5																				
22-23		9.0			7.0				2.5														8.5
23-24			9.5														8.5						8.0
24-25		10.0						2.0								9.5			9.5				7.0
25-26			10.0			9.5													11.0				6.5
26-27		10.5	5.5						2.0														6.0
27-28		6.0	11.0																				5.0
28-29			6.5		8.5			2.0					10.0				8.5						4.5
29-30		6.5													9.0								4.0
30-31			7.0			11.0																	3.5

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	TU BOO	TY BOO	TY BOO	TZ BOO	TZ BOO	UW BOO	VW BOO	VW BOO	AD BOO	AD BOO	BW BOO	BW BOO	Y CAM	SV CAM	AL CAM	CD CAM	CD CAM	RW CAP	TY CAP	RZ CAS	TV CAS	TW CAS	ZZ CAS
MAX	11.7	11.8	11.8	10.6	10.6	10.4	10.5	10.5	9.8	9.8	7.1	7.1	10.6	8.6	10.5	11.6	11.6	9.8	10.5	6.4	7.3	8.3	10.7
MIN	12.7	12.3	12.3	11.1	11.1	11.4	11.0	11.0	10.4	10.2	7.5	7.5	12.4	9.4	11.3	11.8	11.8	10.8	11.6	7.8	8.4	8.9	11.1
DUR	3	3	3	3	3	3	3	3	4	4	5	5	6	3	5	5	5	5	4	4	4	5	4
TOT																							
	(S)		(S)		(S)			(S)		(S)		(S)					(S)						
0- 1	3.5	7.0	3.0	5.0	8.5		7.0	3.0						2.5			8.0				9.0	3.5	
1- 2	2.5	6.0	2.0	2.5	6.0		7.5	3.5			9.0		9.0	7.0	8.0		2.5	2.0		2.0			
2- 3	2.0	4.5	8.5	7.0	3.5			4.0								6.0			4.5	6.5	4.5		
3- 4		3.5	7.5	4.5	8.0			4.5						2.0			9.5						5.5
4- 5	8.5	2.5	6.0	9.0	5.5			5.5						6.5			3.5					10.0	
5- 6	8.0	8.5	5.0	6.0	2.5		2.0	6.0						11.0	7.5	7.0							
6- 7	7.0	7.5	4.0	3.5	7.0		2.5	6.5									10.5		11.0				
7- 8	6.5	6.5	2.5	8.0	4.5		3.0	7.5						5.5			5.0					6.5	
8- 9	6.0	5.0	9.0	5.5	2.0	1.5	4.0							10.0		8.5				6.0			4.5
9-10	5.5	4.0	8.0	3.0	6.5	2.0	4.5					9.5			7.0	3.0			7.0	11.0	10.5		10.5
10-11	4.5	3.0	6.5	7.5	4.0	2.0	5.0			2.5				4.5			6.5					3.5	
11-12	4.0	2.0	5.5	5.0	8.5	2.0	6.0		3.0		9.0		7.0	9.0		10.0		6.5			6.0		
12-13	3.5	8.0	4.5	2.5	6.0	2.0	6.5	2.5		4.0						4.5			3.5				
13-14	2.5	7.0	3.0	7.0	3.0	2.5	7.0	3.0	5.0					4.0	6.5		8.0						4.0
14-15	2.0	6.0	2.0	4.0	8.0	2.5	7.5	3.5		5.5				8.5			2.0			5.5		10.0	10.0
15-16		4.5	8.5	8.5	5.0	2.5		4.5	6.5							5.5				10.0			
16-17	8.5	3.5	7.5	6.0	2.5	2.5		5.0		7.5				3.0			9.0		10.0				
17-18	8.0	2.5	6.0	3.5	7.0	3.0		5.5	8.0					7.5	6.5		3.5					6.5	
18-19	7.0	9.0	5.0	8.0	4.5	3.0	2.0	6.0								7.0							3.5
19-20	6.5	7.5	4.0	5.5	2.0	3.0	2.5	7.0				9.5		2.0			10.5		6.5				9.5
20-21	6.0	6.5	2.5	3.0	6.5	3.0	3.5	7.5						6.5			5.0			5.0	7.5	3.0	
21-22	5.5	5.5	9.0	7.5	4.0	3.0	4.0				9.0		5.0		6.0	8.5		10.5		9.5			
22-23	4.5	4.0	8.0	5.0	8.5	3.5	4.5									2.5			2.5		3.0		
23-24	4.0	3.0	7.0	2.0	5.5	3.5	5.5							6.0			6.0						3.0
24-25	3.5	2.0	5.5	6.5	3.0	3.5	6.0	2.0						10.5		9.5						10.0	8.5
25-26	2.5	8.5	4.5	4.0	7.5	3.5	6.5	2.5							5.5	4.0							
26-27	2.0	7.0	3.5	8.5	5.0	4.0	7.5	3.0						5.0			7.5		9.0	4.5			
27-28		6.0	2.0	6.0	2.5	4.0		4.0						9.5		11.0	2.0			9.0		6.5	
28-29	8.5	5.0	8.5	3.5	7.0	4.0		4.5								5.5		5.5					2.5
29-30	8.0	3.5	7.5	8.0	4.5	4.0		5.0				9.5		4.0	5.0		9.0		5.5		9.0		8.0
30-31	7.0	2.5	6.5	5.5	2.0	4.0		5.5						8.5			3.5					3.0	

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	AB CAS	CW CAS	CW CAS	DZ CAS	IR CAS	IS CAS	IT CAS	MM CAS	OR CAS	OX CAS	OX CAS	PV CAS	V364 CAS	V364 CAS	V375 CAS	V380 CAS	U CEP	SU CEP	WW CEP	WZ CEP	WZ CEP	XX CEP	ZZ CEP
MAX	10.2	11.8	11.8	11.6	10.8	11.6	11.0	11.3	11.4	10.1	10.1	10.0	11.2	11.2	10.1	10.4	6.7	8.8	11.1	11.7	11.7	8.5	9.3
MIN	12.2	12.5	12.5	12.3	12.1	12.6	11.8	11.9	12.4	10.9	10.9	10.6	11.7	11.7	10.9	11.1	9.8	9.8	11.9	11.3	11.1	9.6	10.0
DUR	4	3	3	4	4	5	5	5	4	5	5	3	4	4	5	5	4	4	4	3	3	4	5
TOT																	2						
			(S)								(S)			(S)							(S)		
0- 1		2.5	6.0						2.5	7.5								7.5		8.5	3.5	8.5	
1- 2		9.0	5.0	8.5	7.0	4.5	3.0		8.5			9.0		7.5	5.0		11.0	5.0		4.5	9.5		
2- 3		8.0	4.0	3.5									2.0			4.0		2.5		10.5	5.5		
3- 4	8.0	7.0	3.0		8.0							3.0								6.5			
4- 5		6.0	2.0					3.5						9.5	4.0					2.5	7.5		
5- 6		5.0	8.5	6.5	9.0			7.0	2.0	7.0			4.0							9.0	4.0		
6- 7	2.0	4.0	7.5					11.0	8.0							6.0	10.5			5.0	10.0		
7- 8	10.5	3.0	6.5		10.0										2.5					11.0	6.0	9.0	
8- 9		9.5	5.5	10.0	2.5							9.0	6.0					10.0		7.0	2.0		3.0
9-10		8.5	4.5	5.0	11.0													7.5		3.0	8.0		
10-11	4.0	7.5	3.5		3.5	9.5			2.0	6.5		3.0				7.5		5.5		9.0	4.0		6.5
11-12		6.0	2.5					2.0	7.5				8.5				10.5	3.0		5.0	10.0		
12-13		5.0	9.0	8.5	4.5	5.5		6.0						3.0						11.0	6.0		9.5
13-14		4.0	8.0	3.0				9.5												7.0	2.0		
14-15	6.5	3.0	7.0		5.5	2.0							10.5			9.5				3.0	8.0	9.0	
15-16		2.0	6.0							6.0		9.0		5.0						9.0	4.0		
16-17		8.5	5.0	6.5	6.5				7.5								10.0			5.0	10.5		
17-18		7.5	4.0									3.0			10.0	2.5		10.5			6.5		
18-19	9.0	6.5	3.0		7.5									7.0		11.0		8.0		7.5	2.5		
19-20		5.5	9.5	10.0				4.5										5.5		3.5	8.5		
20-21		4.5	8.5	4.5	8.5			8.5		5.5					9.0			3.0		9.5	4.5		
21-22	2.5	3.5	7.5			10.5			7.0					9.0		4.0	9.5			5.5	10.5	9.5	
22-23		2.5	6.0		9.5							9.0	3.5						6.5		6.5		
23-24		9.0	5.0	8.0		7.0									7.5					7.5	2.5		2.5
24-25		8.0	4.0	3.0	10.5							3.0		11.0						3.5	8.5		
25-26	5.0	7.0	3.0		2.5	3.0				5.0			5.5			6.0				9.5	4.5		6.0
26-27		6.0	2.0					3.5	6.5		11.0				6.0		9.5	10.5		5.5	10.5	1.5	
27-28		5.0	8.5	6.0	3.5			7.5										8.5			6.5		9.5
28-29		4.0	7.5				10.0	11.0					7.5					6.0		8.0	3.0	10.0	
29-30	7.5	3.0	6.5		4.5							9.0		2.0	5.0	7.5		3.5		4.0	9.0		
30-31		1.5	5.5	9.5						4.5										10.0	5.0		

	DK CEP	DL CEP	DV CEP	EG CEP	EK CEP	GK CEP	SS CET	TT CET	TW CET	TW CET	TX CET	RW COM	RW COM	RZ COM	RZ COM	SS COM	SS COM	CC COM	CC COM	U CRB	RW CRB	TW CRB	W CRV
MAX	12.2	12.4	11.6	9.6	8.2	6.9	9.4	10.8	10.4	10.4	10.9	11.0	11.0	10.0	10.0	10.9	10.9	11.0	11.0	7.6	10.1	10.5	10.6
MIN	14.2	13.2	12.4	10.6	9.5	7.4	13.0	11.3	11.2	11.2	11.5	11.6	11.6	10.7	10.7	11.5	11.5	11.9	11.9	8.8	10.6	11.3	11.2
DUR	4	5	4	3	6	4	5	3	3	3	4	3	3	3	3	4	4	2	2	5	4	4	4
TOT							2				1												
										(S)			(S)		(S)		(S)		(S)				
0- 1	2.0	10.5	5.5	8.5		4.0			8.5			3.5	6.0	6.5	2.5		6.0	5.0	2.5		5.5		
1- 2			9.5	10.5		2.5	9.5			11.0		2.0	5.0		2.5		2.0	2.0	5.0			2.5	
2- 3								11.0		9.5		6.5	3.5		3.0	3.0		4.5	2.0		9.5	6.5	3.5
3- 4								10.0		8.5		5.5	2.5		3.5		3.5	2.0	4.5		3.0		
4- 5				4.0			8.5	9.5	11.0			4.0	7.0		4.0	4.5		4.5		6.5			2.0
5- 6		8.0		6.0				9.0	10.0		10.5	3.0	5.5		4.0		5.0		4.0		7.5	5.5	
6- 7				8.0				8.0	8.5				4.5		4.5	6.0		4.0				9.5	
7- 8			5.0	10.0			8.0	7.5				6.0	3.5		5.0		6.5		4.0				
8- 9			9.0							10.0	9.5	5.0	2.0		5.5		2.5	3.5	6.5		5.0	4.0	
9-10					7.5					9.0		3.5	6.5		5.5	3.5		6.0	3.5			8.5	3.0
10-11		5.5		3.5		11.0						2.5	5.5	2.0	6.0		4.0	3.5	6.0		9.5		
11-12				5.5		9.5			10.5		8.5		4.0	2.5	6.5	5.0		6.0	3.0	4.0	3.0	2.5	
12-13				8.0		8.0			9.0			6.0	3.0	2.5			5.5	3.0	5.5			7.0	
13-14				10.0		6.5			8.0			4.5		3.0		6.5		5.5	3.0		7.0		
14-15			4.5			5.0				10.5	8.0	3.5	6.0	3.5		2.0		2.5	5.5				4.0
15-16		2.5	8.0			3.5				9.5		2.0	5.0	4.0			3.0	5.0	2.5			5.5	
16-17				3.5		2.0				8.5		6.5	3.5	4.0		3.5		2.5	5.0		5.0	10.0	3.0
17-18				5.5					11.0		7.0	5.5	2.5	4.5			4.5	5.0	2.0				
18-19		9.0		7.5	4.0				9.5			4.0		5.0		5.0		2.0	4.5	2.0	9.0	4.5	
19-20				10.0				11.0	8.5			3.0	6.0	5.5			6.0	4.5	2.0		2.5	8.5	
20-21								10.5		11.0		2.0	4.5	5.5			2.0		4.5				
21-22			3.5					9.5		10.0		6.0	3.5	6.0	2.0	2.5		4.0			7.0	3.0	4.0
22-23			7.5	3.0				9.0		8.5		5.0	2.0	6.5	2.5		3.5		4.0			7.0	
23-24		6.5		5.5				8.5				4.0	6.5		3.0	4.0		4.0					2.5
24-25				7.5				7.5	10.0			2.5	5.5		3.0		5.0	6.5	3.5		4.5		
25-26				9.5		10.5			9.0		10.5		4.0		3.5	5.5		3.5	6.0			6.0	
26-27						9.0			8.0			6.0	3.0		4.0		6.5	6.0	3.5		9.0	10.0	
27-28						7.5				10.5		4.5	2.0		4.5		2.0	3.0	6.0		2.5		
28-29		4.0	3.0	3.0		6.0				9.0	9.5	3.5	6.5		4.5	3.0		5.5	3.0			4.5	3.5
29-30			7.0	5.0		4.5				8.0		2.0	5.0		5.0		4.0	3.0	5.5		6.5	9.0	
30-31			10.5	7.0		3.0			10.5			6.5	4.0		5.5	4.5		5.5	2.5				2.0

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	W CRV	RV CRV	RV CRV	V CRT	Y CYG	Y CYG	SW CYG	WW CYG	ZZ CYG	AE CYG	BR CYG	CG CYG	DK CYG	KR CYG	KV CYG	MY CYG	MY CYG	V346 CYG	V387 CYG	V388 CYG	V401 CYG	V456 CYG	V466 CYG
MAX	10.6	9.0	9.0	9.5	7.0	7.0	9.3	9.9	10.7	11.8	9.4	11.0	10.3	9.2	11.5	8.3	8.3	11.8	11.5	9.7	10.8	10.8	10.8
MIN	11.2	10.0	10.0	10.2	7.6	7.6	11.8	13.2	12.0	12.8	10.5	11.8	10.8	10.0	12.6	9.0	9.0	13.6	12.3	10.3	11.6	11.9	11.6
DUR	4	4	4	4	6	6	5	5	4	4	4	3	4	4	5	4	4	5	3	3	4	3	4
TOT							2																
	(S)		(S)			(S)											(S)						
0- 1						5.5		4.0	11.0	7.5		10.5	7.0						10.0	2.5			
1- 2	4.0	2.5		2.5	11.0				2.0	6.5	4.0		6.0				7.5				3.0		
2- 3									8.0	6.0		8.0	4.5	10.5	9.0			5.0	8.5		7.0		
3- 4	3.0					5.5				5.0			3.0	7.0		7.5						8.5	8.0
4- 5		2.5			11.0				5.5	4.5		5.5		3.0					6.5	9.5		6.0	
5- 6										3.5	4.0				5.0		7.5			6.0	5.0	3.5	
6- 7						5.5			2.5	3.0		3.0	10.0						4.5	3.0	9.0		3.0
7- 8		2.0			11.0				9.0	2.0		9.0	8.5			7.5							
8- 9	4.0			3.0									7.5	8.5					2.5		3.0		
9-10						5.5			6.0		4.0	6.5	6.0	5.0			7.5		9.5		7.0		
10-11	2.5	2.0			10.5			3.0					4.5					10.5		10.0	11.0		7.0
11-12			4.5				2.5		3.5			4.0	3.0			7.5			7.5	6.5		9.0	
12-13						5.5			9.5			10.5								3.0	5.0	6.5	
13-14					10.5			10.5			4.0			10.5			7.5	4.5	5.5		9.0	4.0	2.0
14-15			4.0						6.5			7.5	10.0	6.5									
15-16	3.5					5.0							8.5	3.0		8.0			4.0		3.0		
16-17					10.5				4.0			5.0	7.5						10.5	10.0	7.0		
17-18	2.0		4.0						10.0		4.0		6.0				8.0		2.0	7.0	11.0		6.0
18-19						5.0						2.5	4.5						8.5	3.5			
19-20					10.5				7.5			9.0	3.0	8.5	10.0	8.0					5.0	9.5	
20-21			3.5				6.0							4.5					7.0		9.0	7.0	
21-22						5.0			4.5		3.5	6.5					8.0	10.0				4.5	10.5
22-23	3.0				10.5				11.0				10.0		6.0				5.0	10.5	2.5	1.5	
23-24			3.5					9.5	2.0			4.0	9.0			8.0				7.0	6.5		
24-25						5.0			8.0			10.0	7.5	10.0				3.5	3.0	4.0	10.5		5.0
25-26					10.5						3.5		6.0	6.0	2.0		8.0		10.0				
26-27			3.0						5.5			7.5	4.5	2.5							4.5		
27-28	4.0			2.0		5.0				10.5			3.0			8.0			8.0		8.5	10.0	
28-29					10.0				2.5	10.0		5.0	1.5							11.0		7.5	9.5
29-30	3.0		2.5				9.5		9.0	9.0	3.5						8.0		6.0	7.5	2.5	5.0	
30-31						5.0				8.5		2.5	10.0	8.0						4.0	6.5	2.0	

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	V466 CYG	V477 CYG	V548 CYG	V704 CYG	1034 CYG	W DEL	TT DEL	TY DEL	YY DEL	FZ DEL	Z DRA	RZ DRA	TW DRA	UZ DRA	UZ DRA	AI DRA	BH DRA	S EQU	TZ ERI	YY ERI	YY ERI	RW GEM	SX GEM
MAX	10.8	8.3	8.9	13.8	9.6	9.4	10.6	9.6	11.0	10.2	10.8	10.0	7.8	9.9	9.9	7.2	8.0	8.0	9.8	8.4	8.4	9.6	10.8
MIN	11.6	9.2	9.7	14.6	10.6	12.7	12.5	10.8	12.0	11.3	13.6	10.9	9.5	10.7	10.7	8.2	8.6	10.0	12.6	9.1	9.1	11.6	11.7
DUR	4	4	5	4	4	7	5	4	4	3	4	3	5	5	5	4	5	5	4	3	3	5	5
TOT						2							1						1			1	
	(S)														(S)						(S)		
0- 1				6.5								4.5					11.0						
1- 2	6.0			10.0				6.0				7.0											
2- 3		9.5						10.5	8.5	9.0		9.5				2.0	6.5				11.0		
3- 4				3.0					3.5	3.5	7.0			6.0		6.5			10.5		10.0		
4- 5			7.5	6.5			9.0										2.0						
5- 6	10.5			10.0								3.5											
6- 7			2.5						8.0	7.0		6.0											
7- 8		2.0		3.0			6.0	5.0	3.0		9.0	8.5								10.5			
8- 9	5.0			6.5		10.5		9.5				11.0			3.5	2.0				10.0		10.5	
9-10		10.5		9.5						10.0						6.5							
10-11							3.0		7.0	5.0	2.0	2.5	11.0					8.5					
11-12				3.0					2.0		10.5	5.0			10.0		8.5				11.0		
12-13	9.5			6.0								7.5									10.0		
13-14			8.0	9.5		5.5		3.5		8.0		10.0	6.5				4.0						10.5
14-15		3.0						8.5	6.0	3.0	3.5												
15-16	4.0		3.5	2.5												6.5							
16-17				6.0	10.5							4.0		7.5						10.5			
17-18				9.5	10.0				10.5	6.0		6.5						5.5		10.0			
18-19					9.5				5.5		5.5	9.0											
19-20	8.5			2.5	9.0			2.5															
20-21				6.0	8.5			7.0		9.0							10.5				11.0		
21-22		4.0		9.5	8.0				9.5	4.0		3.0			4.5	6.5					10.5		
22-23	3.0		8.5		7.5				4.5		7.0	5.5				11.0	6.0						
23-24				2.5	7.0							8.0											
24-25			4.0	6.0	6.5					7.0		10.5			11.0		2.0	2.5					
25-26				9.0	6.0				8.5	2.0										10.5			
26-27	7.5				5.0			6.0	3.5		9.0	2.0		2.0						10.0			
27-28				2.5	4.5		8.5	10.5		10.5		4.5	7.0			6.0							
28-29		5.0		5.5	4.0					5.0		7.0				11.0							
29-30	2.0			9.0	3.5				8.0		2.0	9.5		8.5									
30-31					3.0		5.0		3.0		10.5		2.5								10.5		

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	WW GEM	AF GEM	AL GEM	RX HER	SZ HER	TT HER	TU HER	UX HER	CC HER	CT HER	DI HER	DI HER	HS HER	HS HER	LT HER	V728 HER	AV HYA	DF HYA	DF HYA	SW LAC	SW LAC	VX LAC	AR LAC
MAX	9.8	10.2	9.3	7.1	10.2	9.7	10.6	8.9	9.5	9.9	8.4	8.4	8.5	8.5	10.7	10.9	10.2	11.0	11.0	9.2	9.2	10.9	7.3
MIN	10.5	11.3	10.0	7.7	12.0	10.4	13.4	9.8	12.8	11.2	9.1	9.1	9.0	9.0	11.1	11.5	10.6	11.5	11.5	10.0	10.0	12.3	8.2
DUR	4	4	4	5	4	4	5	5	4	4	6	6	4	4	4	3	4	4	4	3	3	4	6
TOT							1																2
												(S)		(S)					(S)		(S)		
0- 1					7.5					7.0			4.0			3.5				5.5	9.0		
1- 2					3.5										3.5	2.0				4.5	8.5		
2- 3										2.0					5.5					3.5	7.5	2.0	
3- 4		11.0		7.0									11.0		7.5	11.0				2.5	6.5	4.0	
4- 5					10.0		7.0	3.0	8.5					7.0	9.5	9.5		2.0		1.5	5.5	5.5	
5- 6				2.0	5.5								2.0			8.0				8.5	4.5	7.5	
6- 7									2.5							6.5				7.5	4.0	9.0	
7- 8						8.5		5.5								5.5				6.5	3.0	11.0	
8- 9						6.5							8.5			4.0	2.0			6.0	2.0		
9-10					7.5	4.5				5.5				5.0		2.5				5.0	8.5		
10-11				10.0	3.0	2.5		7.5												4.0	8.0		
11-12							2.5		7.0							11.0				3.0	7.0		
12-13				4.5												9.5				2.0	6.0		
13-14					10.0		8.5	10.0					6.5		2.0	8.5				9.0	5.0		
14-15					5.5									3.0	4.0	7.0				8.0	4.0		
15-16												4.0			6.0	5.5				7.0	3.5		
16-17										9.0					8.0	4.0				6.0	2.5		
17-18						9.5								9.5	10.0	3.0				5.5	9.0	3.0	
18-19					7.5	7.5			5.5	3.5			4.5							4.5	8.5	5.0	
19-20				7.5	3.0	5.0														3.5	7.5	6.5	
20-21						3.0	4.0									10.0				2.5	6.5	8.5	
21-22	10.5			2.0				4.0					11.0			8.5	2.0			9.5	5.5	10.0	
22-23					9.5		10.5							7.5		7.0				8.5	4.5		
23-24					5.5								2.5			6.0				7.5	3.5		
24-25								6.0								4.5			2.0	6.5	3.0		
25-26									4.0	7.0						3.0				6.0	2.0		11.0
26-27				10.0									9.0		2.0					5.0	8.5		
27-28					7.5	10.0		8.5		2.0				5.5	4.0					4.0	8.0		10.5
28-29				4.5	3.0	8.0					3.5				6.0	10.0				3.0	7.0		
29-30			11.0			6.0	5.5								8.0	9.0				2.0	6.0		10.0
30-31						4.0		11.0	9.0						10.0	7.5				9.0	5.0		

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	AW LAC	CM LAC	CO LAC	CO LAC	DG LAC	GX LAC	Y LEO	UU LEO	VZ LEO	WZ LEO	XY LEO	XZ LEO	AM LEO	Z LEP	RR LEP	SS LIB	DELT LIB	RY LYN	UZ LYR	EW LYR	FL LYR	U OPH	SX OPH
MAX	10.6	8.5	10.5	10.5	10.8	10.1	9.5	11.4	10.6	11.3	9.5	10.6	9.2	11.0	10.2	10.4	4.8	11.9	9.8	11.2	8.7	5.8	10.5
MIN	11.3	9.5	11.0	11.0	12.0	10.4	12.7	12.7	11.7	12.0	9.9	11.2	9.8	12.5	10.9	11.3	5.9	13.3	11.0	13.6	9.5	6.5	11.2
DUR	5	4	5	5	4	6	5	4	4	5	2	3	3	4	4	6	7	4	5	5	4	5	5
TOT				(S)																			
0- 1		9.5	3.0		10.0				3.0													7.0	
1- 2											2.0		3.5						8.5	6.5			
2- 3				9.5														2.0					
3- 4			5.0					2.5								5.0			6.0	5.5			
4- 5	4.0																						
5- 6	7.5	5.0										3.5	4.0						3.5	4.0		7.5	
6- 7	10.5		7.0									3.0				2.0							
7- 8												2.5								3.0			
8- 9		10.0										2.0	2.0										
9-10			9.0		6.0					2.0											5.5		3.0
10-11				3.0																		8.5	
11-12					11.0																10.0		4.5
12-13	4.0		11.0						2.5				3.0					3.0					
13-14	7.5	5.5		5.0												7.0							6.0
14-15	10.5										3.5												
15-16						7.0	3.0															9.0	7.5
16-17		10.5		7.0						3.0	3.5		3.5			4.0		10.0					
17-18			2.0																				
18-19											3.0								9.0				
19-20				9.0																			
20-21	4.0		4.0		6.5						3.0		4.0				7.0		6.5		3.0	10.0	
21-22	7.5	6.0																					
22-23	10.5			11.0							2.5							4.0	4.0		7.5	2.0	
23-24			6.0										2.0		11.0								
24-25		11.0							2.5		2.0												
25-26												3.5											
26-27			8.0								2.0	3.0				5.5							
27-28				2.0								2.5	2.5				7.0					3.0	
28-29	4.0											2.0		11.0									
29-30	7.5	6.5	10.0		2.5									11.0		2.5							
30-31	10.5			4.0																			

	V501 OPH	V508 OPH	V839 OPH	1010 OPH	EF ORI	ER ORI	ER ORI	ET ORI	FL ORI	FR ORI	FT ORI	FZ ORI	FZ ORI	GU ORI	GU ORI	U PEG	U PEG	TY PEG	UX PEG	AQ PEG	AQ PEG	AQ PEG	BB PEG
MAX	10.9	10.1	8.8	6.2	12.6	9.5	9.5	11.2	10.5	11.0	9.1	10.7	10.7	12.6	12.6	9.7	9.7	10.5	10.7	10.3	10.3	10.3	10.6
MIN	11.8	10.7	9.4	7.0	12.8	10.2	10.2	12.4	13.2	11.9	9.7	11.3	11.3	13.5	13.5	10.5	10.5	12.6	12.0	13.0	13.0	13.0	11.2
DUR	4	3	3	4	6	3	3	5	3	4	4	3	3	4	4	3	3	6	5	12	12	12	3
TOT																				4	4	4	
					(S)		(S)						(S)		(S)		(S)			(2)		(3)	
0- 1	2.5	4.5	5.5	5.5								11.0				9.0	4.5						10.0
1- 2		5.0	11.0										11.0				7.5		7.0				3.0
2- 3		6.0	6.5	5.0								11.0			10.5	6.0	10.5	8.5					5.5
3- 4		6.5	2.5										11.0			9.0	4.5						7.5
4- 5		7.5	8.0	4.5								11.0					7.5		9.0				9.5
5- 6		8.5	3.5			11.0				10.5			11.0			6.0	10.5	10.5		8.0	10.0		2.5
6- 7		9.0	9.0	4.0							10.5	11.0		10.5		9.0	4.5						4.5
7- 8		2.0	4.5						10.5				11.0				7.5						6.5
8- 9		2.5	10.0	4.0								11.0				6.0	10.5						8.5
9-10		3.5	5.5										11.0			9.0	4.5						11.0
10-11		4.0	11.0	3.5								11.0			10.5		7.5						4.0
11-12		5.0	6.5										11.0			6.0	10.5						6.0
12-13		6.0	2.5	3.0								11.0				9.0	4.5		2.5				8.0
13-14		6.5	7.5										11.0				7.5						10.0
14-15		7.5	3.5	2.5								11.0		10.5		6.0	10.5						3.5
15-16		8.5	9.0										11.0			9.0	4.5		4.5				5.5
16-17		9.0	4.5	2.5		11.0						11.0					7.5			10.5			7.5
17-18		1.5	10.0					10.5					11.0			6.0	10.5						9.5
18-19		2.5	5.5	2.0								11.0			11.0	9.0	4.5		7.0				3.0
19-20	11.0	3.5	11.0										11.0				7.5						5.0
20-21	10.5	4.0	6.5							10.5		11.0				6.0	10.5						7.0
21-22	9.5	5.0	2.0										11.0			9.0	4.5		9.0				9.0
22-23	9.0	6.0	7.5		10.5							11.0		11.0			7.5					3.5	2.5
23-24	8.0	6.5	3.5				10.5						11.0			6.0	10.5						4.5
24-25	7.0	7.5	9.0									11.0				9.0	4.5		11.0				6.5
25-26	6.5	8.5	4.5	8.5									11.0				7.5						8.5
26-27	5.5	9.0	10.0									11.0			11.0	6.0	10.5						10.5
27-28	5.0	10.0	5.5	8.0									11.0			9.0	4.5						4.0
28-29	4.0	2.5	11.0									11.0					7.5						6.0
29-30	3.5	3.5	6.5	8.0									11.0			6.0	10.5						8.0
30-31	2.5	4.0	2.0									11.0		11.0		9.0	4.5	4.5					10.0

	BB PEG	BG PEG	BX PEG	DI PEG	GP PEG	KW PEG	KW PEG	RT PER	ST PER	XZ PER	IQ PER	IQ PER	IT PER	IU PER	KW PER	V432 PER	BETA PER	AE PHE	AE PHE	Y PSC	RV PSC	U SGE	V505 SGR
MAX	10.6	10.5	10.9	9.6	10.2	12.1	12.1	10.6	9.7	10.6	7.7	7.7	9.9	10.5	10.5	11.0	2.2	7.5	7.5	9.0	11.3	6.4	6.4
MIN	11.2	11.8	11.5	10.8	11.0	12.4	12.4	12.0	13.2	12.7	8.3	7.9	10.5	11.6	11.5	11.7	3.5	8.2	8.2	12.0	12.0	9.1	7.6
DUR	3	4	3	2	4	3	3	4	5	4	5	5	4	5	4	3	8	2	2	7	3	6	5
TOT		1							1													2	
	(S)						(S)					(S)							(S)				
0- 1	5.5	8.0	2.0	9.0		7.0		5.5							9.0	5.5			11.0				2.0
1- 2	7.5		5.0		11.0	2.5									7.5	9.0		8.5			4.5		6.5
2- 3	9.5	7.0	8.0		10.0		8.0						7.5		6.0			11.0			7.0	9.0	11.0
3- 4	3.0		4.0	5.5	9.5		3.5							9.5	4.5	7.0			8.5		9.5		
4- 5	5.0	6.0	7.0		9.0	9.0						7.0		6.0	2.5	11.0			10.5				
5- 6	7.0		3.5	8.5	8.5	4.5		8.0		8.0	6.0		9.0			5.0		8.5					
6- 7	9.0	4.5	6.0		8.0		10.0									9.0		10.5		6.0			
7- 8	2.5		2.5		7.5		5.5												8.0		6.5		4.5
8- 9	4.5	3.5	5.5	5.0	6.5	11.0							10.5			7.0			10.5		9.5		8.5
9-10	6.5		8.5		6.0	6.5								9.5		10.5						3.0	
10-11	8.5		4.5	8.5	5.5	2.0		10.0						6.0				10.0					
11-12	10.5		7.5		5.0		7.5	6.5				6.5				8.5							
12-13	4.0		3.5		4.5		3.0			5.5	5.5								10.0		6.5		
13-14	6.0		6.5	4.5	4.0	8.5				9.0					10.0	6.5					9.0		2.5
14-15	8.0		2.5		3.0	4.0									8.5	10.0		10.0					6.5
15-16	10.0		5.5	8.0	2.5		9.5							9.5	7.0								11.0
16-17	3.5		2.0				5.0	9.0						6.0	5.0	8.0			9.5				
17-18	5.5		4.5	11.0		10.5		5.0			11.0				3.5						6.0		
18-19	7.5		7.5	4.0		6.0						6.0			2.0	6.0	8.5	9.5			8.5		
19-20	9.5		4.0			2.0					5.0					9.5						6.5	
20-21	2.5		7.0	7.5			7.0		11.0	7.0									9.5				4.5
21-22	4.5		3.0				3.0			10.5				9.5		7.5	5.0			7.5			9.0
22-23	7.0		6.0	10.5		8.0		7.5					6.0	6.0				9.0			5.5		
23-24	9.0		2.0	4.0		3.5										5.5					8.5		
24-25	11.0		5.0				9.0				10.5					9.0			9.0		11.0		
25-26	4.0		8.0	7.0			4.5					5.5	7.5						11.0				
26-27	6.0		4.0			10.0									11.0	7.0		9.0					2.5
27-28	8.0		7.0	10.5		5.5		10.0						9.5	9.5	11.0		11.0			5.5		7.0
28-29	10.5		3.0				11.0	6.0	9.5	8.5			9.0	6.0	7.5	5.0			8.5		8.0		
29-30	3.5		6.0				6.5								6.0	9.0			10.5		10.5	10.0	
30-31	5.5		2.5	6.5			2.5					11.0			4.5			8.5					

	1968 SGR	RS SER	AO SER	CC SER	CC SER	Y SEX	RW TAU	RZ TAU	TY TAU	WY TAU	AC TAU	AM TAU	AQ TAU	EQ TAU	EQ TAU	HU TAU	V TRI	X TRI	RS TRI	RV TRI	W UMA	W UMA	TX UMA
MAX	12.3	10.8	10.6	11.1	11.1	9.8	8.0	10.5	11.5	11.5	10.5	10.4	12.0	10.3	10.3	6.0	10.9	8.9	10.3	11.4	9.1	9.1	6.8
MIN	13.3	11.5	12.1	11.7	11.7	10.2	12.5	11.2	12.0	11.7	12.3	12.3	12.9	11.0	11.0	6.8	11.9	12.0	11.0	12.5	9.9	9.9	8.9
DUR	4	4	4	4	4	3	4	3	2	4	6	5	5	3	3	6	4	4	4	4	3	3	6
TOT							1																
					(S)										(S)							(S)	
0- 1			3.0	2.5	9.0				9.0			10.0			10.5		6.5			10.0	5.5	9.5	
1- 2				3.5		2.0			11.0						11.0		10.5				5.5	9.5	
2- 3	4.5	5.5		4.0				9.0				11.0		7.5							5.5	9.5	
3- 4	7.5	10.0		5.0										8.0			5.0			10.5	5.5	9.5	
4- 5				6.0				11.0						8.5			9.0				5.5	9.5	
5- 6		5.5		6.5									9.0	9.0							5.5	9.5	
6- 7	3.0	10.0	7.0	7.5						10.0				10.0						11.0	5.5	9.5	
7- 8	6.0		4.0	8.0	2.0			9.0						10.5			7.0			5.0	5.5	1.5	
8- 9	9.0	5.0		9.0	2.5									11.0							6.0	2.0	3.0
9-10		10.0			3.5			11.0							7.5						6.0	2.0	
10-11					4.0						10.0				8.0		5.5		10.5	5.5	6.0	2.0	
11-12	4.5	5.0			5.0								11.0		8.5		9.5				6.0	2.0	4.5
12-13	8.0	9.5			6.0			8.5			11.0				9.0				8.5		6.0	2.0	
13-14			8.0		6.5										10.0					5.5	6.0	2.0	
14-15		4.5	5.0		7.5	2.5	9.0	10.5	9.0						10.5	9.5	7.5		6.5		6.0	2.0	6.0
15-16	3.5	9.5	2.0	2.0	8.0				11.0	10.0					11.0						6.0	2.0	
16-17	6.5			2.5	9.0											11.0				6.0	6.0	2.0	
17-18	9.5	4.5		3.5										8.0			6.0	11.0			6.0	2.0	
18-19		9.0		4.0										8.5			10.0	10.0			6.0	2.0	
19-20	2.0			5.0				10.5						9.0				9.5		6.5	6.0	2.0	
20-21	5.0	4.0	8.5	5.5										9.5				9.0			6.0	2.0	
21-22	8.0	9.0	5.5	6.5										10.5			8.0	8.0			6.0	2.0	
22-23			3.0	7.5		2.0							9.5	11.0				7.5		6.5	6.0	2.0	
23-24		4.0		8.0	2.0													7.0			6.0	2.0	
24-25	3.5	8.5		9.0	2.5			10.0		10.5					8.0		6.5	6.0			6.0	2.0	
25-26	6.5				3.5		10.5								8.5		10.5	5.5		7.0	6.0	2.0	
26-27	9.5	3.5			4.0										9.0						6.0	2.0	
27-28		8.5	9.5		5.0	3.0									9.5		4.5				6.0	2.0	
28-29	2.5		6.5		5.5				9.5						10.0		8.5			7.5	6.0	2.0	
29-30	5.5	3.5	3.5		6.5			9.5	11.0						11.0						6.0	2.0	
30-31	8.5	8.0			7.0																6.0	2.0	

	TY UMA	TY UMA	UX UMA	UX UMA	VV UMA	XZ UMA	ZZ UMA	AF UMA	W UMI	RU UMI	VV VIR	AG VIR	AH VIR	AH VIR	AK VIR	AW VIR	AW VIR	AX VIR	AZ VIR	AZ VIR	BH VIR	MS VIR	MS VIR
MAX	11.7	11.7	12.7	12.7	10.1	10.1	9.8	10.8	8.6	10.7	11.7	8.8	9.7	9.7	10.0	10.8	10.8	10.0	11.0	11.0	9.9	9.4	9.4
MIN	12.4	12.4	13.8	13.8	11.0	11.7	11.2	11.6	9.7	11.4	13.5	9.4	10.2	10.2	11.5	11.9	11.9	10.8	11.8	11.8	11.3	9.7	9.7
DUR	3	3	1	1	3	3	4	8	7	4	4	4	4	4	4	3	3	4	3	3	4	3	3
TOT		(S)												(S)			(S)			(S)			(S)
0- 1	10.0	6.0	2.5	7.0	8.0					4.5			2.0		2.5		2.5	6.0	4.0				4.0
1- 2	3.0	7.5	7.0	2.0						6.0	4.0			2.5			4.0		5.5		5.5		2.5
2- 3	4.5	9.0	11.0	6.5	9.5					7.0			2.5				5.5		6.5	2.5		4.5	
3- 4	6.5	2.0	6.0	10.5	2.0				10.0	8.5				3.0		2.5				3.5		3.0	
4- 5	8.0	3.5	10.5	5.5	11.0					9.5		4.0	3.5			4.0				4.5			5.5
5- 6	9.5	5.0	5.0	10.0	3.5				3.0	10.5	4.5			4.0		5.5		4.0		6.0			4.0
6- 7	2.5	6.5	9.5	5.0		4.0	2.5				2.0	2.5	4.5				3.0		3.0		3.5		2.5
7- 8	4.0	8.0	4.5	9.0	5.0			6.5						5.0			4.5		4.0			4.5	
8- 9	5.5	9.5	8.5	4.0			9.5						5.5				6.0		5.0			3.0	
9-10	7.0	2.5	3.5	8.5	6.5					3.0	5.0					3.0			6.5	2.0			5.5
10-11	8.5	4.0	8.0	3.0					5.5	4.0	2.0					4.5		2.0		3.5	5.5		4.0
11-12	10.0	5.5	3.0	7.5	8.0					5.5			2.0			6.0	2.0			4.5			2.5
12-13	3.0	7.0	7.0	2.5						6.5				2.5			3.5	5.0		5.5		4.5	
13-14	4.5	9.0	2.0	6.5	9.5					7.5	5.0	4.0	3.0		5.5		5.0		2.5	7.0		3.0	
14-15	6.0	2.0	6.5	11.0	1.5					9.0	2.5			3.5		2.0	6.5		4.0				5.0
15-16	7.5	3.5	10.5	6.0	10.5		7.5		8.0	10.0		2.5	3.5			3.5			5.0		3.0		3.5
16-17	9.0	5.0	5.5	10.5	3.0									4.0		5.0			6.0	2.0			2.0
17-18	2.0	6.5	10.0	5.0		4.0					5.5		4.5				2.0	3.0		3.0		4.5	
18-19	3.5	8.0	4.5	9.5	4.5						3.0			5.0			3.5			4.5		3.0	
19-20	5.0	9.5	9.0	4.5						2.5			5.5		4.5		5.0	5.5		5.5	5.0		5.0
20-21	6.5	2.5	4.0	8.5	6.0				10.5	3.5						2.5			2.5	6.5			3.5
21-22	8.0	4.0	8.5	3.5						4.5	6.0					4.0			3.5			6.0	2.0
22-23	10.0	5.5	3.0	8.0	7.5		5.0		3.5	6.0	3.5	4.0	2.0			5.5			5.0			4.5	
23-24	3.0	7.0	7.5	3.0						7.0				2.5			2.5		6.0	2.0		3.0	
24-25	4.5	8.5	2.5	7.0	9.0					8.5		2.5	3.0				4.0	3.5		3.0	2.5		5.0
25-26	6.0	10.0	6.5	2.0						9.5	6.0			3.5	4.0		5.5			4.0			3.5
26-27	7.5	3.0	11.0	6.5	10.5					10.5	3.5		4.0			3.0		6.0		5.5		6.0	2.0
27-28	9.0	4.5	6.0	10.5	3.0				6.0					4.0		4.5			2.5	6.5		4.5	
28-29	2.0	6.0	10.0	5.5		4.0		7.5					4.5			6.0			3.5		4.5	3.0	
29-30	3.5	7.5	5.0	10.0	4.5		2.5							5.0			3.0		4.5				5.0
30-31	5.0	9.0	9.5	4.5						3.0	4.0		5.5				4.5		6.0				3.5

	NY VIR	Z VUL	AW VUL	AX VUL	AY VUL	BE VUL	BO VUL	BS VUL	BT VUL	BU VUL	CD VUL	V495 VUL	V495 VUL
MAX	13.3	7.4	10.8	11.0	11.0	9.9	10.4	11.0	11.8	10.6	11.5	9.6	9.6
MIN	14.2	9.2	11.9	12.5	12.9	11.4	13.3	11.5	12.5	11.4	12.6	10.0	10.0
DUR	1	6	5	5	4	5	4	3	3	3	4	4	4
TOT													(S)
0- 1	3.0			8.0				6.0			8.5		
1- 2	3.5				5.5	5.0	9.0	5.0		4.0			
2- 3	3.5		8.5	8.5				3.5		7.5	9.5		
3- 4	4.0		4.0				7.5	2.5	2.5	10.5	2.0		
4- 5	4.0	6.0		9.0		7.5			5.5		10.5	5.0	7.0
5- 6	2.0						6.5		9.0	3.5	3.0		
6- 7	2.0		9.5	9.5				10.5		7.0			
7- 8	2.5		4.5			10.0	5.0	9.5		10.5	4.5		
8- 9	2.5			10.5	11.0			8.0					
9-10	3.0	4.0					4.0	7.0		3.5	5.5	3.0	5.0
10-11	3.0		10.0	11.0				6.0		6.5			
11-12	3.5		5.5				2.5	4.5	2.0	10.0	7.0		
12-13	3.5					2.0		3.5	5.5			9.5	
13-14	4.0				7.0			2.5	9.0	3.0	8.0		
14-15	4.0		11.0							6.0			2.5
15-16	2.0		6.5			4.5				9.5	9.5		
16-17	2.0							10.5					
17-18	2.5							9.0		2.5	10.5	7.0	9.0
18-19	2.5				2.5	7.0		8.0		6.0	3.0		
19-20	3.0		7.0					7.0	2.0	9.0			
20-21	3.0		2.5					6.0	5.0		4.0		
21-22	3.5	10.5				9.5		4.5	8.5	2.0			
22-23	3.5							3.5		5.5	5.5	5.0	6.5
23-24	4.0		8.0					2.5		8.5			
24-25	4.0		3.0								6.5		
25-26	2.0				8.5								
26-27	2.0	8.0						10.5		5.0	8.0		
27-28	2.5		8.5					9.0		8.5		2.5	4.5
28-29	2.5		4.0					8.0	5.0		9.0		
29-30	3.0					3.5		7.0	8.5				
30-31	3.0				4.0			5.5		4.5	10.5	9.0	11.0