

Day	Sun	Sun	Sun	Sun	Star Name	Eclipse			Time of			Eclipse			Helio
	-12°	-18°	-18°	-12°		starts	Azi	Alt	minimum	Azi	Alt	ends	Azi	Alt	Corr
mar 01-01-13	16.49	17.22	04.48	05.22	NSVS 06507557	mar 16.32	301	64	mar 17.17	322	70	mar 18.02	353	73	202
					V912 Per	mar 17.08	259	58	mar 17.08	259	58	mar 17.09	259	58	362
					HAT-216-0003316	mar 17.10	264	45	mar 17.10	264	45	mar 17.10	265	45	425
					V470 Cam	mar 17.35	210	39	mar 17.46	211	40	mar 17.57	211	41	352
					V449 Per	mar 17.59	290	74	mar 17.59	290	74	mar 17.59	290	75	305
					HS 2231+2441	mar 18.49	91	38	mar 18.50	91	38	mar 18.50	91	38	-148
					NLTT11748	mar 18.55	326	62	mar 18.55	326	62	mar 18.55	326	62	356
					BX Tri	mar 19.01	34	80	mar 19.52	67	72	mar 20.43	82	63	250
					NSVS 02502726	mar 19.43	227	39	mar 20.43	230	48	mar 21.44	232	56	387
					V470 Cam	mar 19.53	211	52	mar 20.04	210	53	mar 20.15	210	54	352
					RX J2130.6+4710	mar 20.03	131	27	mar 20.03	131	27	mar 20.03	131	27	-95
					HAT-136-0003262 II	mar 21.02	251	53	mar 21.53	255	62	mar 22.44	258	72	440
					NLTT11748	mar 21.42	50	57	mar 21.42	50	57	mar 21.42	51	57	355
					BS Uma II	mar 22.08	239	32	mar 22.51	243	39	mar 23.34	248	46	250
					V608 Aur II	mar 22.11	288	84	mar 23.11	73	84	mer 00.11	91	73	467
					V470 Cam	mar 22.11	196	63	mar 22.22	194	64	mar 22.32	191	64	352
					GSC 2499 246	mar 22.16	262	53	mar 23.06	270	62	mar 23.57	280	71	407
					HAT-225-0003429 II	mar 22.41	270	55	mar 23.15	276	61	mar 23.49	284	68	404
					NSVS 06507557 II	mar 22.43	96	33	mar 23.28	103	24	mer 00.13	110	16	200
					GJ 3236	mar 23.08	153	53	mar 23.36	152	50	mer 00.04	152	48	285
					BX Tri	mar 23.39	109	31	mer 00.30	116	22	mer 01.21	123	14	249
					HAT-131-0026711	mar 23.48	117	65	mar 23.48	117	65	mar 23.48	117	65	417
					DE CVn	mar 23.49	234	30	mar 23.49	234	30	mar 23.50	234	30	87
					V470 Cam	mer 00.28	166	64	mer 00.39	164	63	mer 00.50	162	62	352
					NLTT11748	mer 00.29	89	28	mer 00.29	89	28	mer 00.29	89	28	355
					BS UMa	mer 02.20	261	76	mer 03.03	262	84	mer 03.45	112	88	251
					HW Vir	mer 02.22	316	28	mer 02.32	318	30	mer 02.42	321	31	-15
					NSVS 02502726 II	mer 02.26	138	71	mer 03.26	130	62	mer 04.27	128	54	387
					CU Cnc	mer 02.37	55	57	mer 03.36	72	47	mer 04.36	84	36	450
					YY Gem II	mer 02.38	88	55	mer 02.38	88	55	mer 02.39	88	55	478
					GSC 2499 246	mer 02.40	74	75	mer 03.31	87	66	mer 04.21	95	56	407
					V470 Cam	mer 02.46	150	53	mer 02.57	149	52	mer 03.08	149	51	352
					NY Vir	mer 02.49	305	30	mer 02.58	307	31	mer 03.06	309	32	-99
					HAT-225-0003429	mer 03.48	83	62	mer 04.22	90	56	mer 04.56	95	50	405
					NN Ser	mer 04.31	286	36	mer 04.32	286	36	mer 04.32	286	36	-270
					V470 Cam	mer 05.04	149	40	mer 05.15	150	39	mer 05.26	150	38	352
					HW Vir	mer 05.10	5	39	mer 05.20	8	39	mer 05.30	11	39	-14
mer 02-01-13	16.49	17.23	04.48	05.22	GSC 1941 1746	mer 15.53	225	-9	mer 21.20	278	46	gio 02.47	68	57	459
					V608 Aur II	mer 16.30	237	24	mer 17.30	244	34	mer 18.30	251	44	467
					NLTT11748	mer 17.11	292	48	mer 17.11	292	48	mer 17.12	292	48	351
					NSVS 06507557	mer 17.16	323	70	mer 18.01	354	73	mer 18.46	28	72	194
					GJ 3236	mer 17.38	201	58	mer 18.07	197	60	mer 18.35	193	61	283
					BX Tri	mer 18.08	332	80	mer 18.59	36	80	mer 19.50	68	72	244
					PTFEB11.441	mer 18.35	98	72	mer 18.35	98	71	mer 18.35	98	71	114
					HS 2231+2441	mer 18.43	91	38	mer 18.43	91	38	mer 18.43	91	38	-155
					V470 Cam	mer 18.50	212	47	mer 19.01	212	48	mer 19.12	212	49	352
					HAT-225-0003429 II	mer 19.09	241	18	mer 19.43	246	24	mer 20.17	250	30	408
					NLTT11748	mer 19.58	2	66	mer 19.59	2	66	mer 19.59	3	66	350
					GSC 2499 246	mer 20.17	248	32	mer 21.07	254	41	mer 21.58	261	50	410
					HAT-136-0003262	mer 20.25	248	48	mer 21.16	252	56	mer 22.07	256	66	442
					HAT-133-0002525	mer 20.38	255	67	mer 21.47	255	79	mer 22.56	133	87	457
					V912 Per	mer 20.52	84	79	mer 20.52	85	79	mer 20.52	85	79	356
					V470 Cam	mer 21.08	205	59	mer 21.19	203	60	mer 21.30	202	61	352
					YY Gem II	mer 22.11	291	69	mer 22.11	291	69	mer 22.11	291	69	479
					NSVS 02502726	mer 22.35	229	64	mer 23.35	219	72	gio 00.36	191	77	389
					NLTT11748	mer 22.45	70	46	mer 22.46	70	46	mer 22.46	70	46	349
					BX Tri	mer 22.46	102	40	mer 23.37	109	31	gio 00.28	116	22	242
					BS Uma II	mer 23.18	247	44	gio 00.01	251	51	gio 00.43	254	59	256
					V470 Cam	mer 23.26	178	65	mer 23.37	176	65	mer 23.47	174	65	352
					HAT-225-0003429	gio 00.16	295	73	gio 00.50	315	78	gio 01.24	352	81	408
					GSC 2499 246	gio 00.41	301	80	gio 01.32	14	84	gio 02.22	68	77	411
					NSVS 07826147	gio 01.25	238	22	gio 01.37	239	23	gio 01.48	241	25	-110
					V608 Aur	gio 01.39	109	45	gio 02.39	115	35	gio 03.40	122	25	443
					V470 Cam	gio 01.44	154	58	gio 01.54	153	57	gio 02.05	152	56	352
					DE CVn	gio 02.02	246	52	gio 02.02	246	52	gio 02.03	246	52	93
					NY Vir	gio 03.04	309	33	gio 03.12	311	34	gio 03.21	314	35	-90
					NSVS 07826147 II	gio 03.22	252	41	gio 03.33	253	43	gio 03.44	254	45	-109
					BS UMa	gio 03.30	228	89	gio 04.13	98	83	gio 04.55	99	75	257
					HW Vir	gio 03.35	336	36	gio 03.45	339	37	gio 03.55	342	38	-6
					V470 Cam	gio 04.01	148	45	gio 04.12	148	44	gio 04.23	149	43	352

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					HAT-136-0003262 II	gio 04.13	112	48	gio 05.04	117	39	gio 05.55	122	31	443
gio 03-01-13	16.50	17.24	04.48	05.22	HAT-205-0007777	gio 17.03	95	64	gio 17.03	95	64	gio 17.03	95	64	-78
					BX Tri	gio 17.15	296	74	gio 18.06	334	80	gio 18.57	38	79	237
					YY Gem II	gio 17.43	246	21	gio 17.44	246	21	gio 17.44	246	21	480
					V470 Cam	gio 17.48	211	41	gio 17.58	211	42	gio 18.09	211	43	352
					NSVS 06507557	gio 17.59	356	73	gio 18.44	30	71	gio 19.29	53	66	186
					NLTT11748	gio 18.15	313	58	gio 18.15	313	58	gio 18.15	313	58	344
					GSC 2499 246	gio 18.18	233	13	gio 19.08	240	21	gio 19.59	246	30	414
					HAT-216-0003316	gio 18.19	278	59	gio 18.19	278	59	gio 18.20	278	59	417
					HS 2231+2441	gio 18.36	90	39	gio 18.36	90	39	gio 18.37	90	39	-162
					NSVS 02502726 II	gio 18.44	224	32	gio 19.44	228	40	gio 20.45	231	49	390
					GSC 1941 1746 II	gio 19.05	256	22	ven 00.32	1	72	ven 05.59	104	22	462
					HAT-136-0003262 II	gio 19.48	245	42	gio 20.39	249	51	gio 21.30	254	60	444
					DV Psc	gio 19.52	68	30	gio 20.37	77	22	gio 21.22	85	14	-72
					V608 Aur	gio 19.58	269	72	gio 20.59	285	83	gio 21.59	70	85	441
					V470 Cam	gio 20.05	210	54	gio 20.16	209	55	gio 20.27	208	56	352
					BS UMa	gio 20.17	227	16	gio 20.59	232	22	gio 21.42	237	29	261
					PTFEB11.441	gio 20.24	108	51	gio 20.25	108	51	gio 20.25	108	51	107
					HAT-225-0003429	gio 20.45	254	35	gio 21.19	259	41	gio 21.52	263	48	412
					NLTT11748	gio 21.02	38	61	gio 21.02	38	61	gio 21.02	38	61	343
					BX Tri	gio 21.53	95	49	gio 22.44	103	39	gio 23.35	109	30	235
					V470 Cam	gio 22.23	192	64	gio 22.34	189	64	gio 22.45	187	65	352
					GSC 2499 246	gio 22.42	267	59	gio 23.33	276	68	ven 00.23	293	77	414
					HAT-131-0026711	gio 23.36	117	66	gio 23.36	117	66	gio 23.37	117	65	412
					NLTT11748	gio 23.49	84	34	gio 23.49	84	34	gio 23.49	84	34	343
					BS Uma II	ven 00.28	253	57	ven 01.11	257	64	ven 01.53	260	72	262
					V912 Per	ven 00.35	113	38	ven 00.35	113	38	ven 00.36	114	38	350
					V470 Cam	ven 00.41	162	62	ven 00.52	160	62	ven 01.02	159	61	352
					NSVS 02502726	ven 01.27	156	76	ven 02.27	136	70	ven 03.28	129	61	391
					HAT-225-0003429 II	ven 01.52	33	80	ven 02.26	59	75	ven 03.00	73	70	413
					HW Vir	ven 01.59	312	26	ven 02.09	314	28	ven 02.20	317	29	3
					HAT-145-0001586	ven 02.38	246	56	ven 03.44	248	67	ven 04.50	243	79	76
					NSVS 07826147 II	ven 02.39	247	35	ven 02.51	249	37	ven 03.02	250	38	-105
					V470 Cam	ven 02.59	149	51	ven 03.09	149	50	ven 03.20	148	49	351
					GSC 2499 246	ven 03.07	83	69	ven 03.57	92	59	ven 04.47	100	50	415
					NY Vir	ven 03.18	314	35	ven 03.27	316	36	ven 03.35	318	37	-82
					NN Ser	ven 03.21	274	24	ven 03.21	274	24	ven 03.22	274	24	-259
					YY Gem	ven 03.30	97	44	ven 03.30	97	44	ven 03.30	97	44	480
					HAT-136-0003262	ven 03.36	109	54	ven 04.27	114	45	ven 05.18	119	36	444
					DE CVn	ven 04.15	249	76	ven 04.16	249	76	ven 04.16	249	76	99
					NSVS 07826147	ven 04.36	261	55	ven 04.47	263	57	ven 04.59	264	60	-104
					HW Vir	ven 04.47	360	39	ven 04.57	3	39	ven 05.08	6	39	4
ven 04-01-13	16.51	17.25	04.49	05.22	BX Tri	ven 16.22	280	65	ven 17.13	297	74	ven 18.04	336	81	230
					V470 Cam	ven 16.45	209	36	ven 16.56	209	36	ven 17.07	210	37	351
					NSVS 01031772	ven 17.26	179	31	ven 18.12	181	31	ven 18.58	184	32	170
					DV Psc	ven 18.05	42	46	ven 18.50	54	40	ven 19.35	65	33	-80
					HS 2231+2441	ven 18.29	90	39	ven 18.29	90	39	ven 18.30	90	39	-169
					NSVS 06507557	ven 18.43	31	71	ven 19.28	54	65	ven 20.13	69	58	178
					V470 Cam	ven 19.03	212	49	ven 19.13	212	50	ven 19.24	211	51	351
					HAT-136-0003262	ven 19.11	241	36	ven 20.02	246	45	ven 20.53	251	54	445
					NLTT11748	ven 19.18	344	65	ven 19.19	344	65	ven 19.19	344	65	338
					HAT-205-0007777	ven 19.41	114	35	ven 19.41	114	35	ven 19.42	114	35	-85
					GSC 2499 246	ven 20.43	252	38	ven 21.34	258	47	ven 22.24	265	56	418
					BX Tri	ven 21.00	87	58	ven 21.51	96	48	ven 22.42	103	39	228
					CU Cnc	ven 21.07	281	41	ven 22.07	295	52	ven 23.07	315	61	459
					V470 Cam	ven 21.20	202	61	ven 21.31	200	62	ven 21.42	199	62	351
					BS UMa	ven 21.26	236	27	ven 22.09	240	34	ven 22.52	245	41	266
					NSVS 02502726 II	ven 21.36	232	57	ven 22.37	228	66	ven 23.37	216	73	392
					NLTT11748	ven 22.05	61	52	ven 22.06	62	52	ven 22.06	62	52	337
					PTFEB11.441	ven 22.14	120	32	ven 22.14	120	32	ven 22.15	120	32	99
					GSC 1941 1746	ven 22.16	293	58	sab 03.43	83	46	sab 09.10	136	-10	465
					HAT-225-0003429 II	ven 22.20	268	53	ven 22.54	274	60	ven 23.28	281	66	416
					YY Gem	ven 23.02	324	78	ven 23.02	324	78	ven 23.03	325	78	481
					V608 Aur II	ven 23.27	84	79	sab 00.27	95	68	sab 01.27	102	56	464
					V470 Cam	ven 23.38	174	65	ven 23.49	171	65	sab 00.00	169	64	351
					NLTT11748	sab 00.52	95	22	sab 00.53	95	22	sab 00.53	95	21	336
					GSC 2499 246	sab 01.08	343	84	sab 01.58	58	80	sab 02.48	80	71	418
					GJ 3236	sab 01.10	152	41	sab 01.38	153	39	sab 02.07	154	36	276
					BS Uma II	sab 01.38	259	70	sab 02.21	262	78	sab 03.03	260	86	267

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					V470 Cam	sab 01.56	152	57	sab 02.07	151	56	sab 02.17	150	55	351
					NSVS 07826147 II	sab 01.57	243	28	sab 02.08	244	30	sab 02.20	245	32	-100
					HAT-136-0003262 II	sab 02.59	106	60	sab 03.50	111	51	sab 04.41	115	42	446
					HW Vir	sab 03.12	332	35	sab 03.22	335	36	sab 03.32	338	37	12
					HAT-225-0003429	sab 03.27	81	64	sab 04.01	88	58	sab 04.35	94	51	417
					NY Vir	sab 03.33	319	38	sab 03.41	321	39	sab 03.50	324	40	-73
					NSVS 07826147	sab 03.53	256	48	sab 04.05	258	50	sab 04.16	259	53	-100
					V470 Cam	sab 04.14	148	43	sab 04.24	149	42	sab 04.35	149	41	351
					NSVS 02502726	sab 04.19	129	53	sab 05.20	131	44	sab 06.20	134	36	393
					NN Ser	sab 04.20	286	36	sab 04.20	286	36	sab 04.20	286	36	-253
sab 05-01-13	16.52	17.26	04.49	05.22	DV Psc	sab 16.17	3	54	sab 17.02	21	52	sab 17.47	37	48	-87
					V471 Tau	sab 16.59	291	46	sab 16.59	291	46	sab 16.59	292	46	338
					NLTT11748	sab 17.35	302	54	sab 17.35	302	54	sab 17.35	302	54	332
					NSVS 02502726	sab 17.45	219	26	sab 18.46	224	33	sab 19.46	228	42	394
					V608 Aur II	sab 17.46	247	39	sab 18.46	254	49	sab 19.46	261	60	463
					V470 Cam	sab 18.00	211	43	sab 18.11	212	44	sab 18.22	212	45	351
					V912 Per	sab 18.10	269	73	sab 18.11	269	73	sab 18.11	269	73	340
					HS 2231+2441	sab 18.22	89	40	sab 18.23	89	40	sab 18.23	89	40	-176
					HAT-136-0003262 II	sab 18.34	238	31	sab 19.25	243	39	sab 20.16	248	48	447
					YY Gem	sab 18.35	254	32	sab 18.35	254	32	sab 18.35	254	32	482
					GSC 2499 246	sab 18.44	238	19	sab 19.35	244	27	sab 20.25	250	36	421
					HAT-225-0003429 II	sab 18.48	240	17	sab 19.22	244	22	sab 19.56	249	28	419
					NSVS 06507557	sab 19.26	55	65	sab 20.11	70	58	sab 20.56	80	49	170
					HAT-216-0003316	sab 19.28	302	73	sab 19.29	302	73	sab 19.29	302	73	407
					GJ 3236	sab 19.41	179	63	sab 20.09	173	62	sab 20.37	168	62	273
					BX Tri	sab 20.06	77	67	sab 20.57	88	58	sab 21.48	96	48	221
					V470 Cam	sab 20.18	208	56	sab 20.29	207	57	sab 20.39	206	58	350
					NLTT11748	sab 20.22	22	64	sab 20.22	22	64	sab 20.22	22	64	331
					V470 Cam	sab 22.35	187	65	sab 22.46	185	65	sab 22.57	182	65	350
					BS UMa	sab 22.36	244	39	sab 23.19	248	46	dom 00.01	252	53	272
					GSC 2499 246	sab 23.09	273	65	sab 23.59	286	75	dom 00.50	320	83	421
					NLTT11748	sab 23.09	77	40	sab 23.09	77	40	sab 23.09	77	40	330
					HAT-131-0026711	sab 23.24	117	66	sab 23.25	117	66	sab 23.25	117	66	406
					HAT-225-0003429	sab 23.55	291	72	dom 00.29	308	77	dom 01.03	340	81	420
					DE CVn	sab 23.57	236	34	sab 23.57	236	34	sab 23.58	236	34	109
					V449 Per	dom 00.10	112	30	dom 00.10	112	30	dom 00.11	112	30	278
					NSVS 02502726 II	dom 00.28	188	77	dom 01.29	151	75	dom 02.29	134	68	394
					V470 Cam	dom 00.53	159	61	dom 01.04	157	60	dom 01.15	156	60	350
					HAT-133-0002525	dom 01.10	107	61	dom 02.19	112	49	dom 03.28	119	38	454
					NSVS 07826147 II	dom 01.15	238	22	dom 01.26	239	24	dom 01.37	241	26	-96
					HW Vir	dom 01.36	309	24	dom 01.47	311	26	dom 01.57	313	27	20
					HAT-136-0003262	dom 02.21	104	66	dom 03.12	108	56	dom 04.03	112	47	447
					AP Tau	dom 02.29	107	22	dom 02.29	107	21	dom 02.29	108	21	422
					BS Uma II	dom 02.48	262	84	dom 03.31	110	88	dom 04.13	98	80	273
					V608 Aur	dom 02.55	119	30	dom 03.56	126	20	dom 04.56	134	12	434
					V470 Cam	dom 03.11	148	49	dom 03.22	148	48	dom 03.33	148	47	350
					NSVS 07826147	dom 03.11	252	41	dom 03.23	253	44	dom 03.34	255	46	-95
					GSC 2499 246	dom 03.33	90	62	dom 04.23	97	53	dom 05.14	104	44	422
					NY Vir	dom 03.47	324	40	dom 03.56	327	41	dom 04.05	329	41	-65
					GK Boo	dom 04.10	269	62	dom 05.16	284	74	dom 06.22	337	84	-26
					YY Gem II	dom 04.21	105	33	dom 04.21	105	33	dom 04.22	105	33	482
					HW Vir	dom 04.25	355	39	dom 04.35	358	39	dom 04.45	2	39	21
					NSVS 07826147 II	dom 05.08	266	63	dom 05.19	268	65	dom 05.30	270	67	-95
					NN Ser	dom 05.18	300	46	dom 05.18	301	46	dom 05.19	301	46	-247
dom 06-01-13	16.53	17.27	04.49	05.22	V470 Cam	dom 16.57	210	37	dom 17.08	210	38	dom 17.19	210	39	350
					PTFEB11.441	dom 17.17	92	83	dom 17.17	92	83	dom 17.17	92	83	86
					HAT-136-0003262	dom 17.57	234	26	dom 18.48	240	34	dom 19.39	245	42	448
					V471 Tau	dom 18.00	310	57	dom 18.00	310	57	dom 18.00	310	57	332
					HS 2231+2441	dom 18.16	89	41	dom 18.16	89	40	dom 18.16	89	40	-182
					NLTT11748	dom 18.38	327	63	dom 18.39	328	63	dom 18.39	328	63	325
					BX Tri	dom 19.13	58	75	dom 20.04	77	67	dom 20.55	88	57	214
					V470 Cam	dom 19.15	211	51	dom 19.26	211	52	dom 19.37	211	53	350
					NSVS 06507557	dom 20.09	71	57	dom 20.54	81	49	dom 21.39	89	41	162
					HAT-225-0003429	dom 20.24	253	34	dom 20.57	257	40	dom 21.31	262	46	423
					NSVS 02502726	dom 20.37	231	50	dom 21.38	231	58	dom 22.38	227	67	395
					GSC 2499 246	dom 21.10	256	44	dom 22.00	263	53	dom 22.51	271	63	425
					V608 Aur	dom 21.14	330	88	dom 22.15	83	80	dom 23.15	94	68	432
					NLTT11748	dom 21.25	51	57	dom 21.26	52	57	dom 21.26	52	57	324
					V470 Cam	dom 21.33	199	62	dom 21.44	197	63	dom 21.54	195	63	350

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					V912 Per	dom 21.54	97	64	dom 21.54	97	64	dom 21.54	97	64	334
					V449 Per	dom 22.53	103	43	dom 22.53	103	43	dom 22.53	103	43	271
					BS UMa	dom 23.46	251	51	lun 00.29	254	59	lun 01.11	258	67	277
					V470 Cam	dom 23.51	169	64	lun 00.01	167	64	lun 00.12	165	63	350
					YY Gem II	dom 23.54	29	79	dom 23.54	30	79	dom 23.54	30	79	482
					NLTT11748	lun 00.12	90	28	lun 00.13	90	27	lun 00.13	90	27	323
					HAT-225-0003429 II	lun 01.31	22	81	lun 02.04	54	77	lun 02.38	70	71	424
					GSC 2499 246	lun 01.34	43	82	lun 02.24	75	74	lun 03.15	87	65	425
					NY Vir	lun 01.37	294	21	lun 01.45	295	23	lun 01.54	297	24	-57
					HAT-136-0003262 II	lun 01.44	102	72	lun 02.35	105	62	lun 03.26	109	53	448
					AP Tau	lun 01.48	102	28	lun 01.49	102	28	lun 01.49	102	28	417
					V470 Cam	lun 02.08	151	55	lun 02.19	150	54	lun 02.30	149	53	350
					DE CVn	lun 02.10	248	56	lun 02.10	248	56	lun 02.11	248	56	115
					NSVS 07826147	lun 02.29	247	35	lun 02.40	249	37	lun 02.52	250	39	-91
					HW Vir	lun 02.49	328	34	lun 02.59	330	35	lun 03.10	333	36	29
					GK Boo	lun 03.06	261	51	lun 04.12	270	63	lun 05.18	286	75	-20
					NN Ser	lun 03.09	274	24	lun 03.10	274	24	lun 03.10	274	24	-242
					NSVS 02502726 II	lun 03.20	129	60	lun 04.21	129	52	lun 05.21	131	43	396
					BS Uma II	lun 03.58	98	83	lun 04.40	99	75	lun 05.23	102	67	278
					NY Vir	lun 04.02	330	42	lun 04.11	332	42	lun 04.19	335	43	-56
					NSVS 07826147 II	lun 04.25	261	56	lun 04.37	263	58	lun 04.48	264	60	-90
					V470 Cam	lun 04.26	149	41	lun 04.37	149	40	lun 04.48	150	39	349
lun 07-01-13	16.54	17.27	04.48	05.22	NSVS 02502726 II	lun 16.47	214	20	lun 17.47	220	27	lun 18.47	225	35	396
					NLTT11748	lun 16.55	293	48	lun 16.55	293	48	lun 16.55	293	48	319
					HAT-136-0003262 II	lun 17.20	230	21	lun 18.11	236	29	lun 19.02	242	37	449
					HS 2231+2441	lun 18.09	88	41	lun 18.09	88	41	lun 18.09	88	41	-189
					V470 Cam	lun 18.12	212	45	lun 18.23	212	46	lun 18.34	212	47	349
					BX Tri	lun 18.20	14	81	lun 19.11	59	75	lun 20.02	78	66	207
					V471 Tau	lun 19.01	338	64	lun 19.01	339	64	lun 19.01	339	64	325
					PTFEB11.441	lun 19.06	103	62	lun 19.07	103	62	lun 19.07	103	62	79
					GSC 2499 246	lun 19.11	242	24	lun 20.01	248	33	lun 20.52	255	42	427
					YY Gem II	lun 19.26	262	42	lun 19.26	262	42	lun 19.27	262	42	483
					NLTT11748	lun 19.42	4	66	lun 19.42	4	66	lun 19.42	5	66	318
					V470 Cam	lun 20.30	207	58	lun 20.41	206	59	lun 20.52	204	60	349
					HAT-216-0003316	lun 20.38	9	79	lun 20.38	10	79	lun 20.38	10	79	398
					BS Uma II	lun 20.44	232	22	lun 21.27	237	29	lun 22.10	242	36	282
					NSVS 06507557	lun 20.53	81	49	lun 21.38	90	40	lun 22.23	97	32	153
					V449 Per	lun 21.35	92	57	lun 21.35	92	57	lun 21.36	93	57	265
					HAT-225-0003429 II	lun 21.59	267	52	lun 22.33	272	58	lun 23.07	279	64	427
					NLTT11748	lun 22.29	70	46	lun 22.29	71	46	lun 22.30	71	46	317
					V470 Cam	lun 22.48	183	65	lun 22.59	180	65	lun 23.09	178	65	349
					BX Tri	lun 22.58	107	34	lun 23.49	113	25	mar 00.40	120	17	206
					HAT-131-0026711	lun 23.13	117	67	lun 23.13	117	67	lun 23.13	117	67	399
					NSVS 02502726	lun 23.30	215	74	mar 00.30	182	78	mar 01.30	147	74	397
					GSC 2499 246	lun 23.35	281	72	mar 00.26	304	80	mar 01.16	22	84	428
					V608 Aur II	mar 00.43	98	62	mar 01.43	105	51	mar 02.44	111	41	459
					BS UMa	mar 00.56	257	65	mar 01.39	260	72	mar 02.21	262	80	283
					V470 Cam	mar 01.06	156	60	mar 01.16	155	59	mar 01.27	154	58	349
					HAT-136-0003262	mar 01.07	100	78	mar 01.58	103	68	mar 02.49	106	59	450
					AP Tau	mar 01.08	97	35	mar 01.08	97	35	mar 01.09	97	35	413
					HW Vir	mar 01.14	306	22	mar 01.24	308	23	mar 01.34	310	25	37
					V912 Per	mar 01.37	122	25	mar 01.37	122	25	mar 01.38	123	25	327
					NSVS 07826147	mar 01.47	243	28	mar 01.58	244	30	mar 02.09	246	32	-86
					NY Vir	mar 01.51	297	24	mar 02.00	299	26	mar 02.09	301	27	-48
					GK Boo	mar 02.02	253	40	mar 03.08	261	52	mar 04.14	271	64	-15
					HAT-225-0003429	mar 03.06	79	66	mar 03.40	86	59	mar 04.14	92	53	428
					GJ 3236	mar 03.13	158	30	mar 03.41	160	29	mar 04.09	162	27	266
					V470 Cam	mar 03.23	148	47	mar 03.34	148	46	mar 03.45	148	45	349
					NSVS 07826147 II	mar 03.43	257	49	mar 03.54	258	51	mar 04.06	259	53	-86
					GSC 2499 246	mar 03.59	95	56	mar 04.50	102	47	mar 05.40	108	38	429
					HW Vir	mar 04.02	350	39	mar 04.12	354	39	mar 04.22	357	39	38
					NN Ser	mar 04.08	286	36	mar 04.08	286	36	mar 04.08	286	36	-235
					NY Vir	mar 04.17	336	43	mar 04.25	338	44	mar 04.34	341	44	-47
					DE CVn	mar 04.23	245	80	mar 04.24	245	80	mar 04.24	245	80	120
					YY Gem	mar 05.12	113	22	mar 05.13	113	22	mar 05.13	113	22	483
mar 08-01-13	16.55	17.28	04.48	05.22	HAT-136-0003262	mar 16.42	226	16	mar 17.33	232	24	mar 18.24	238	31	450
					V470 Cam	mar 17.10	210	39	mar 17.20	211	40	mar 17.31	211	41	348
					BX Tri	mar 17.27	315	78	mar 18.18	16	81	mar 19.09	60	75	200
					NLTT11748	mar 17.58	314	59	mar 17.59	314	59	mar 17.59	314	59	312

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					HS 2231+2441	mar 18.02	88	42	mar 18.02	88	42	mar 18.03	88	41	-196
					DV Psc	mar 18.20	51	42	mar 19.05	62	35	mar 19.50	72	27	-114
					HAT-225-0003429 II	mar 18.27	238	15	mar 19.01	243	21	mar 19.35	248	26	430
					V608 Aur II	mar 19.02	257	54	mar 20.02	264	65	mar 21.03	273	77	458
					V470 Cam	mar 19.27	211	53	mar 19.38	210	54	mar 19.49	210	55	348
					NSVS 02502726 II	mar 19.39	229	42	mar 20.39	231	51	mar 21.39	231	60	398
					V471 Tau	mar 20.02	15	65	mar 20.02	15	65	mar 20.02	15	65	318
					V449 Per	mar 20.18	78	70	mar 20.18	78	70	mar 20.18	78	70	258
					NLTT11748	mar 20.45	39	61	mar 20.46	39	61	mar 20.46	39	61	311
					PTFEB11.441	mar 20.56	113	42	mar 20.56	113	42	mar 20.57	113	42	71
					GSC 2499 246	mar 21.36	261	50	mar 22.27	268	60	mar 23.17	277	69	431
					NSVS 06507557	mar 21.36	90	40	mar 22.21	97	31	mar 23.06	104	23	145
					GJ 3236	mar 21.43	158	57	mar 22.11	155	55	mar 22.40	153	53	263
					V470 Cam	mar 21.45	195	63	mar 21.56	193	64	mar 22.07	191	64	348
					BS Uma II	mar 21.54	240	34	mar 22.37	245	41	mar 23.19	249	48	287
					BX Tri	mar 22.05	100	43	mar 22.56	107	34	mar 23.47	114	25	199
					NLTT11748	mar 23.33	84	33	mar 23.33	84	33	mar 23.33	84	33	310
					HAT-225-0003429	mar 23.34	288	70	mer 00.08	302	76	mer 00.42	329	80	431
					V470 Cam	mer 00.03	165	63	mer 00.14	163	63	mer 00.24	161	62	348
					AP Tau	mer 00.28	91	42	mer 00.28	91	41	mer 00.28	91	41	408
					HAT-136-0003262 II	mer 00.30	102	84	mer 01.21	101	74	mer 02.12	104	65	451
					YY Gem	mer 00.45	66	70	mer 00.45	66	70	mer 00.46	66	70	483
					GK Boo	mer 00.58	246	29	mer 02.04	254	41	mer 03.10	262	53	-9
					NSVS 07826147	mer 01.04	238	22	mer 01.16	240	24	mer 01.27	241	26	-81
					GSC 2499 246	mer 02.00	69	77	mer 02.51	84	68	mer 03.41	93	59	431
					NY Vir	mer 02.06	301	27	mer 02.15	303	29	mer 02.23	305	30	-39
					BS UMa	mer 02.06	262	78	mer 02.49	260	86	mer 03.31	100	86	288
					V470 Cam	mer 02.21	150	53	mer 02.31	149	52	mer 02.42	149	51	348
					NSVS 02502726	mer 02.22	133	68	mer 03.22	129	59	mer 04.22	129	50	398
					HW Vir	mer 02.26	324	32	mer 02.37	326	33	mer 02.47	329	34	46
					NSVS 07826147 II	mer 03.01	252	42	mer 03.12	253	44	mer 03.24	255	46	-81
					NY Vir	mer 04.31	342	44	mer 04.40	345	45	mer 04.49	348	45	-39
					V470 Cam	mer 04.38	150	40	mer 04.49	150	39	mer 05.00	150	38	348
					HAT-225-0003429 II	mer 04.41	97	47	mer 05.15	102	41	mer 05.49	106	35	431
					NSVS 07826147	mer 04.57	267	63	mer 05.09	268	65	mer 05.20	270	67	-80
					NN Ser	mer 05.06	300	46	mer 05.07	301	46	mer 05.07	301	46	-229
mer 09-01-13	16.56	17.29	04.48	05.22	DV Psc	mer 16.33	16	53	mer 17.18	33	49	mer 18.03	47	44	-122
					BX Tri	mer 16.34	289	71	mer 17.25	317	79	mer 18.16	19	81	193
					HS 2231+2441	mer 17.55	87	42	mer 17.56	87	42	mer 17.56	87	42	-202
					V470 Cam	mer 18.25	212	47	mer 18.36	212	48	mer 18.46	212	49	347
					V449 Per	mer 19.00	33	82	mer 19.01	33	82	mer 19.01	34	82	252
					NLTT11748	mer 19.02	346	65	mer 19.02	346	65	mer 19.03	346	65	305
					V912 Per	mer 19.12	306	87	mer 19.13	307	87	mer 19.13	308	87	317
					GSC 2499 246	mer 19.37	246	30	mer 20.28	253	39	mer 21.18	259	48	434
					HAT-225-0003429	mer 20.02	252	32	mer 20.36	256	38	mer 21.10	261	44	433
					YY Gem	mer 20.17	271	53	mer 20.18	271	53	mer 20.18	271	53	483
					V470 Cam	mer 20.42	204	59	mer 20.53	203	60	mer 21.04	202	61	347
					V471 Tau	mer 21.03	45	59	mer 21.03	45	58	mer 21.03	45	58	311
					BX Tri	mer 21.12	93	52	mer 22.03	100	43	mer 22.54	107	33	191
					HAT-216-0003316	mer 21.47	65	70	mer 21.47	65	70	mer 21.48	65	70	387
					NLTT11748	mer 21.49	62	51	mer 21.49	62	51	mer 21.50	63	51	304
					NSVS 06507557	mer 22.20	98	31	mer 23.05	104	23	mer 23.50	111	15	137
					NSVS 02502726 II	mer 22.31	227	67	mer 23.31	211	75	gio 00.31	176	78	399
					V608 Aur	mer 22.31	89	74	mer 23.31	98	63	gio 00.31	104	52	421
					PTFEB11.441	mer 22.46	126	24	mer 22.46	126	24	mer 22.46	126	24	63
					V470 Cam	mer 23.00	178	65	mer 23.11	176	65	mer 23.22	173	65	347
					HAT-131-0026711	mer 23.01	118	68	mer 23.01	118	67	mer 23.01	118	67	392
					BS Uma II	mer 23.04	248	46	mer 23.47	252	54	gio 00.29	255	61	292
					AP Tau	mer 23.47	85	48	mer 23.48	85	48	mer 23.48	85	48	404
					HAT-136-0003262	mer 23.53	174	89	gio 00.44	101	80	gio 01.35	102	71	451
					GK Boo	mer 23.54	238	19	gio 01.00	246	30	gio 02.06	254	42	-4
					GSC 2499 246	gio 00.02	294	78	gio 00.52	350	84	gio 01.42	61	79	434
					DE CVn	gio 00.05	239	37	gio 00.05	239	37	gio 00.06	239	37	130
					NLTT11748	gio 00.36	96	21	gio 00.36	96	21	gio 00.37	96	21	303
					HW Vir	gio 00.51	302	20	gio 01.01	305	21	gio 01.11	307	23	54
					HAT-225-0003429 II	gio 01.09	10	81	gio 01.43	47	78	gio 02.17	66	73	434
					V470 Cam	gio 01.18	154	58	gio 01.29	153	57	gio 01.40	152	56	347
					NSVS 07826147 II	gio 02.18	248	35	gio 02.30	249	37	gio 02.41	250	39	-76
					NY Vir	gio 02.21	306	30	gio 02.29	308	32	gio 02.38	310	33	-31
					NN Ser	gio 02.58	274	24	gio 02.58	274	24	gio 02.58	274	24	-223

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					BS UMa	gio 03.16	108	88	gio 03.58	98	80	gio 04.41	100	72	293
					V470 Cam	gio 03.36	148	45	gio 03.46	148	44	gio 03.57	149	43	347
					HW Vir	gio 03.39	346	38	gio 03.49	349	39	gio 04.00	352	39	55
					NSVS 07826147	gio 04.15	261	56	gio 04.26	263	58	gio 04.38	264	60	-76
					GSC 2499 246	gio 04.26	100	50	gio 05.16	106	40	gio 06.07	112	32	435
					NY Vir	gio 04.46	348	45	gio 04.55	351	46	gio 05.03	354	46	-30
gio 10-01-13	16.57	17.30	04.48	05.22	GSC 1941 1746 II	gio 14.12	210	-17	gio 19.39	266	33	ven 01.06	42	68	478
					V608 Aur	gio 16.50	250	43	gio 17.50	256	54	gio 18.50	263	65	418
					NSVS 06507557 II	gio 16.52	328	71	gio 17.37	1	73	gio 18.22	33	71	130
					NLTT11748	gio 17.18	303	54	gio 17.19	303	54	gio 17.19	303	54	298
					V470 Cam	gio 17.22	211	41	gio 17.33	211	42	gio 17.44	211	43	346
					V449 Per	gio 17.43	299	78	gio 17.43	299	78	gio 17.43	299	78	245
					HS 2231+2441	gio 17.48	87	43	gio 17.49	87	43	gio 17.49	87	43	-209
					NSVS 02502726	gio 18.40	225	35	gio 19.40	229	44	gio 20.40	231	52	400
					V470 Cam	gio 19.40	210	54	gio 19.51	209	55	gio 20.01	208	56	346
					HAT-133-0002525	gio 19.59	254	65	gio 21.08	256	78	gio 22.17	162	88	446
					BS UMa	gio 20.02	228	18	gio 20.45	234	24	gio 21.28	238	31	297
					NLTT11748	gio 20.06	24	64	gio 20.06	24	64	gio 20.06	24	64	298
					BX Tri	gio 20.19	84	61	gio 21.10	93	52	gio 22.01	100	42	184
					HAT-225-0003429 II	gio 21.38	265	50	gio 22.12	271	56	gio 22.46	277	63	437
					V470 Cam	gio 21.57	191	64	gio 22.08	189	64	gio 22.19	187	65	346
					GSC 2499 246	gio 22.03	266	57	gio 22.53	274	66	gio 23.43	287	75	437
					V471 Tau	gio 22.04	65	49	gio 22.04	65	48	gio 22.04	66	48	304
					GK Boo	gio 22.50	230	10	gio 23.56	239	20	ven 01.02	247	31	2
					NLTT11748	gio 22.53	78	39	gio 22.53	78	39	gio 22.53	78	39	297
					V912 Per	gio 22.56	106	50	gio 22.56	106	50	gio 22.56	106	50	310
					AP Tau	gio 23.07	77	55	gio 23.07	77	55	gio 23.08	77	55	399
					HAT-136-0003262 II	gio 23.16	257	84	ven 00.07	109	86	ven 00.58	101	77	452
					BS Uma II	ven 00.14	254	59	ven 00.57	258	67	ven 01.39	261	75	297
					V470 Cam	ven 00.15	162	62	ven 00.26	160	62	ven 00.37	158	61	346
					NSVS 02502726 II	ven 01.23	146	74	ven 02.23	132	66	ven 03.23	129	58	400
					NSVS 07826147 II	ven 01.36	243	29	ven 01.48	244	30	ven 01.59	246	32	-71
					YY Gem II	ven 01.36	83	60	ven 01.37	83	59	ven 01.37	83	59	483
					V608 Aur II	ven 01.59	108	46	ven 03.00	114	36	ven 04.00	121	26	453
					HW Vir	ven 02.04	320	30	ven 02.14	322	32	ven 02.24	325	33	63
					DE CVn	ven 02.18	249	60	ven 02.18	249	60	ven 02.19	249	60	136
					GSC 2499 246	ven 02.27	80	71	ven 03.17	90	62	ven 04.08	98	52	437
					V470 Cam	ven 02.33	149	51	ven 02.44	149	50	ven 02.55	148	49	345
					NY Vir	ven 02.35	310	33	ven 02.44	312	34	ven 02.52	314	35	-22
					HAT-225-0003429	ven 02.45	77	67	ven 03.19	84	61	ven 03.53	91	55	437
					NSVS 07826147	ven 03.33	257	49	ven 03.44	258	51	ven 03.55	260	53	-71
					NN Ser	ven 03.56	286	36	ven 03.56	286	36	ven 03.57	286	36	-217
					BS UMa	ven 04.26	99	75	ven 05.08	102	67	ven 05.51	106	59	298
					V470 Cam	ven 04.51	150	38	ven 05.01	151	37	ven 05.12	151	36	345
					HW Vir	ven 04.52	10	39	ven 05.02	13	38	ven 05.12	16	38	64
					NY Vir	ven 05.01	355	46	ven 05.09	358	46	ven 05.18	1	46	-21
ven 11-01-13	16.58	17.31	04.48	05.22	NSVS 01031772	ven 17.18	180	31	ven 18.04	182	32	ven 18.50	185	32	174
					GSC 1941 1746	ven 17.23	246	10	ven 22.50	316	67	sab 04.17	93	34	480
					NSVS 06507557 II	ven 17.36	3	73	ven 18.21	35	71	ven 19.06	57	65	122
					RX J2130.6+4710	ven 17.38	121	43	ven 17.39	121	42	ven 17.39	121	42	-138
					HS 2231+2441	ven 17.42	86	43	ven 17.42	86	43	ven 17.42	86	43	-215
					PTFEB11.441	ven 17.48	97	74	ven 17.49	97	74	ven 17.49	97	73	50
					NLTT11748	ven 18.22	329	63	ven 18.22	329	63	ven 18.23	329	63	291
					V470 Cam	ven 18.37	212	49	ven 18.48	211	50	ven 18.59	211	51	345
					BX Tri	ven 19.26	72	70	ven 20.17	85	61	ven 21.08	93	51	177
					GSC 2499 246	ven 20.04	251	36	ven 20.54	257	45	ven 21.45	263	54	439
					V608 Aur II	ven 20.18	267	71	ven 21.19	281	82	ven 22.19	60	86	451
					V470 Cam	ven 20.55	202	61	ven 21.06	200	62	ven 21.16	198	62	344
					YY Gem II	ven 21.09	283	64	ven 21.09	284	64	ven 21.10	284	64	483
					NLTT11748	ven 21.09	53	56	ven 21.09	53	56	ven 21.10	53	56	290
					BS UMa	ven 21.12	237	29	ven 21.55	242	36	ven 22.37	246	43	301
					NSVS 02502726	ven 21.32	231	60	ven 22.32	225	69	ven 23.32	207	76	401
					AP Tau	ven 22.27	68	61	ven 22.27	68	61	ven 22.27	68	61	394
					HAT-136-0003262	ven 22.39	260	78	ven 23.30	248	87	sab 00.21	102	83	453
					HAT-131-0026711	ven 22.49	118	68	ven 22.49	118	68	ven 22.50	118	68	384
					HAT-216-0003316	ven 22.56	85	56	ven 22.57	85	56	ven 22.57	85	56	376
					V471 Tau	ven 23.05	80	37	ven 23.05	80	37	ven 23.05	80	37	297
					V470 Cam	ven 23.13	173	65	ven 23.23	171	64	ven 23.34	169	64	344
					HAT-225-0003429	ven 23.13	285	68	ven 23.47	297	74	sab 00.21	320	79	440

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					GJ 3236	ven 23.46	151	46	sab 00.14	152	44	sab 00.42	152	41	252
					NLTT11748	ven 23.56	90	27	ven 23.56	90	27	ven 23.57	90	27	289
					GSC 2499 246	sab 00.28	323	83	sab 01.18	47	82	sab 02.09	76	74	440
					NSVS 07826147 II	sab 00.54	238	22	sab 01.05	240	24	sab 01.17	241	26	-67
					HAT-145-0001586	sab 01.08	242	46	sab 02.14	247	57	sab 03.20	248	69	117
					BS Uma II	sab 01.24	260	73	sab 02.07	262	80	sab 02.49	250	88	302
					V470 Cam	sab 01.30	152	56	sab 01.41	151	55	sab 01.52	150	54	344
					NY Vir	sab 02.50	315	36	sab 02.58	317	37	sab 03.07	319	38	-13
					NSVS 07826147	sab 02.50	252	42	sab 03.02	254	44	sab 03.13	255	46	-66
					HW Vir	sab 03.16	341	37	sab 03.27	344	38	sab 03.37	347	39	72
					V470 Cam	sab 03.48	149	43	sab 03.59	149	42	sab 04.10	149	41	344
					NSVS 02502726 II	sab 04.15	129	50	sab 05.15	132	41	sab 06.15	136	33	401
					HAT-225-0003429 II	sab 04.20	95	49	sab 04.54	100	43	sab 05.28	105	37	441
					DE CVn	sab 04.31	232	84	sab 04.31	232	84	sab 04.32	232	84	141
					NSVS 07826147 II	sab 04.47	267	63	sab 04.58	269	65	sab 05.10	271	67	-66
					NN Ser	sab 04.55	301	46	sab 04.55	301	46	sab 04.55	301	46	-210
sab 12-01-13	16.59	17.32	04.48	05.21	V470 Cam	sab 17.34	211	43	sab 17.45	212	44	sab 17.56	212	45	343
					HS 2231+2441	sab 17.35	86	44	sab 17.35	86	44	sab 17.35	86	44	-221
					NSVS 02502726 II	sab 17.41	221	29	sab 18.41	226	37	sab 19.42	230	45	401
					GSC 2499 246	sab 18.05	236	17	sab 18.55	243	25	sab 19.46	249	33	441
					GJ 3236	sab 18.16	190	62	sab 18.45	184	63	sab 19.13	179	63	249
					NSVS 06507557 II	sab 18.19	36	70	sab 19.04	58	64	sab 19.49	71	57	113
					BX Tri	sab 18.33	47	78	sab 19.24	72	70	sab 20.15	85	60	169
					DV Psc	sab 18.36	59	37	sab 19.21	69	30	sab 20.06	78	22	-147
					RX J2130.6+4710	sab 18.39	127	33	sab 18.39	127	32	sab 18.40	127	32	-142
					NLTT11748	sab 19.26	6	66	sab 19.26	6	66	sab 19.26	6	66	284
					PTFEB11.441	sab 19.38	107	53	sab 19.38	107	53	sab 19.39	107	53	43
					HAT-225-0003429	sab 19.41	251	30	sab 20.15	255	36	sab 20.49	260	42	442
					V470 Cam	sab 19.52	208	56	sab 20.03	207	57	sab 20.14	206	58	343
					GSC 1941 1746 II	sab 20.34	277	45	dom 02.01	66	58	dom 07.28	124	0	482
					AP Tau	sab 21.46	55	67	sab 21.47	55	67	sab 21.47	55	67	389
					DE CVn	sab 22.00	227	21	sab 22.00	227	21	sab 22.01	227	21	145
					HAT-136-0003262 II	sab 22.02	258	72	sab 22.53	259	81	sab 23.44	152	89	453
					V470 Cam	sab 22.10	187	65	sab 22.21	184	65	sab 22.31	182	65	343
					NLTT11748	sab 22.13	71	45	sab 22.13	71	45	sab 22.13	71	45	283
					BS UMa	sab 22.22	245	41	sab 23.05	249	48	sab 23.47	253	56	306
					GSC 2499 246	sab 22.29	271	63	sab 23.19	282	72	dom 00.10	307	81	442
					V608 Aur	sab 23.47	101	58	dom 00.47	107	47	dom 01.48	114	37	409
					V471 Tau	dom 00.06	91	25	dom 00.06	91	25	dom 00.06	91	25	290
					NSVS 02502726	dom 00.24	173	77	dom 01.24	143	73	dom 02.25	131	65	401
					V470 Cam	dom 00.28	158	61	dom 00.38	157	60	dom 00.49	156	59	343
					HAT-225-0003429 II	dom 00.48	357	81	dom 01.22	39	79	dom 01.56	62	74	443
					HW Vir	dom 01.41	316	29	dom 01.51	319	30	dom 02.01	321	31	81
					NSVS 07826147	dom 02.08	248	35	dom 02.19	249	37	dom 02.31	250	39	-62
					YY Gem	dom 02.28	93	49	dom 02.28	93	48	dom 02.28	93	48	483
					BS Uma II	dom 02.34	260	86	dom 03.16	100	86	dom 03.59	98	78	307
					V470 Cam	dom 02.45	148	49	dom 02.56	148	48	dom 03.07	148	47	343
					NN Ser	dom 02.46	274	24	dom 02.46	274	24	dom 02.46	274	24	-204
					GSC 2499 246	dom 02.53	88	65	dom 03.44	96	55	dom 04.34	102	46	442
					NY Vir	dom 03.04	320	38	dom 03.13	322	39	dom 03.22	325	40	-5
					NSVS 07826147 II	dom 04.04	262	56	dom 04.16	263	58	dom 04.27	265	60	-61
					HW Vir	dom 04.29	5	39	dom 04.39	9	39	dom 04.50	12	39	82
					V470 Cam	dom 05.03	151	36	dom 05.14	152	35	dom 05.25	152	34	343
dom 13-01-13	17.00	17.33	04.48	05.21	DV Psc	dom 16.49	28	50	dom 17.34	43	46	dom 18.19	56	39	-155
					HS 2231+2441	dom 17.28	85	44	dom 17.28	85	44	dom 17.29	85	44	-228
					BX Tri	dom 17.40	350	81	dom 18.31	49	78	dom 19.22	73	69	162
					NLTT11748	dom 17.42	315	59	dom 17.42	315	59	dom 17.43	315	59	277
					V608 Aur	dom 18.06	259	59	dom 19.06	267	70	dom 20.07	279	81	406
					V470 Cam	dom 18.49	211	51	dom 19.00	211	52	dom 19.11	210	53	342
					NSVS 06507557 II	dom 19.03	58	64	dom 19.48	72	56	dom 20.33	82	48	105
					RX J2130.6+4710	dom 19.40	133	23	dom 19.40	133	23	dom 19.40	133	23	-146
					V912 Per	dom 20.14	86	78	dom 20.15	86	78	dom 20.15	86	78	292
					NLTT11748	dom 20.29	41	61	dom 20.29	41	61	dom 20.30	41	61	276
					GSC 2499 246	dom 20.30	255	42	dom 21.21	261	51	dom 22.11	269	60	444
					NSVS 02502726 II	dom 20.33	231	53	dom 21.33	231	62	dom 22.34	224	70	402
					AP Tau	dom 21.06	35	72	dom 21.06	36	72	dom 21.06	36	72	384
					V470 Cam	dom 21.07	199	62	dom 21.18	197	63	dom 21.29	195	63	342
					HAT-225-0003429 II	dom 21.17	264	48	dom 21.50	269	54	dom 22.24	275	61	445
					HAT-136-0003262	dom 21.24	256	66	dom 22.15	259	75	dom 23.06	257	84	453

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					PTFEB11.441	dom 21.28	119	33	dom 21.28	119	33	dom 21.28	119	33	35
					YY Gem	dom 22.00	306	74	dom 22.01	306	74	dom 22.01	306	74	482
					BX Tri	dom 22.17	104	37	dom 23.08	111	28	dom 23.59	118	19	160
					HAT-131-0026711	dom 22.37	118	69	dom 22.38	118	69	dom 22.38	118	69	376
					NLTT11748	dom 23.16	85	33	dom 23.16	85	33	dom 23.17	85	33	275
					V470 Cam	dom 23.25	169	64	dom 23.36	167	64	dom 23.46	165	63	341
					BS UMa	dom 23.32	252	54	lun 00.15	255	61	lun 00.57	259	69	311
					GSC 1941 1746	dom 23.46	356	72	lun 05.13	103	23	lun 10.40	163	-22	483
					HAT-216-0003316	lun 00.06	98	42	lun 00.06	98	42	lun 00.06	98	42	365
					DE CVn	lun 00.13	241	41	lun 00.13	241	41	lun 00.14	241	41	150
					HAT-133-0002525	lun 00.31	107	63	lun 01.40	112	51	lun 02.49	118	39	439
					NY Vir	lun 00.54	291	19	lun 01.02	292	20	lun 01.11	294	22	3
					GSC 2499 246	lun 00.54	25	84	lun 01.45	70	76	lun 02.35	85	67	445
					NSVS 07826147	lun 01.26	243	29	lun 01.37	245	31	lun 01.48	246	33	-57
					V470 Cam	lun 01.43	150	55	lun 01.53	150	54	lun 02.04	149	53	341
					HAT-225-0003429	lun 02.24	74	69	lun 02.58	83	63	lun 03.31	89	57	446
					HW Vir	lun 02.54	337	36	lun 03.04	340	37	lun 03.14	343	38	90
					V608 Aur II	lun 03.16	118	31	lun 04.16	125	22	lun 05.16	133	13	446
					NSVS 02502726	lun 03.16	128	57	lun 04.16	129	48	lun 05.17	132	40	402
					NY Vir	lun 03.19	325	40	lun 03.28	328	41	lun 03.36	330	42	4
					NSVS 07826147 II	lun 03.22	257	49	lun 03.34	258	51	lun 03.45	260	53	-56
					BS Uma II	lun 03.44	98	80	lun 04.26	100	72	lun 05.09	103	64	312
					NN Ser	lun 03.44	286	36	lun 03.45	286	36	lun 03.45	286	36	-198
					V470 Cam	lun 04.00	149	41	lun 04.11	149	40	lun 04.22	150	39	341
					GU Boo	lun 04.22	274	61	lun 05.08	285	69	lun 05.54	304	77	-57
lun 14-01-13	17.01	17.34	04.47	05.21	NSVS 02502726	lun 16.42	216	23	lun 17.42	222	30	lun 18.43	227	38	402
					BX Tri	lun 16.47	303	76	lun 17.38	353	81	lun 18.29	50	77	154
					HS 2231+2441	lun 17.21	85	45	lun 17.22	85	45	lun 17.22	85	45	-234
					YY Gem	lun 17.33	250	27	lun 17.33	250	27	lun 17.33	250	27	482
					V470 Cam	lun 17.47	212	45	lun 17.58	212	46	lun 18.08	212	47	340
					GSC 2499 246	lun 18.31	241	22	lun 19.22	247	31	lun 20.12	253	39	446
					NLTT11748	lun 18.46	348	65	lun 18.46	348	65	lun 18.46	348	65	270
					HAT-205-0007777	lun 19.27	117	31	lun 19.27	117	31	lun 19.27	117	31	-145
					NSVS 06507557 II	lun 19.46	73	56	lun 20.31	83	48	lun 21.16	91	39	96
					V470 Cam	lun 20.04	206	58	lun 20.15	205	59	lun 20.26	204	60	340
					AP Tau	lun 20.26	8	75	lun 20.26	8	75	lun 20.26	8	75	378
					BS Uma II	lun 20.30	234	24	lun 21.13	239	31	lun 21.55	243	38	315
					HAT-136-0003262 II	lun 20.47	254	60	lun 21.38	257	69	lun 22.29	260	78	454
					BX Tri	lun 21.24	98	46	lun 22.15	105	37	lun 23.06	111	28	153
					NLTT11748	lun 21.33	63	51	lun 21.33	63	51	lun 21.33	63	51	269
					V608 Aur II	lun 21.35	306	87	lun 22.35	80	81	lun 23.35	93	70	444
					V470 Cam	lun 22.22	182	65	lun 22.33	180	65	lun 22.44	177	65	340
					HAT-225-0003429	lun 22.52	282	67	lun 23.26	293	73	mar 00.00	312	78	448
					GSC 2499 246	lun 22.55	278	69	lun 23.46	296	79	mar 00.36	358	84	447
					NSVS 02502726 II	lun 23.25	205	76	mar 00.25	167	77	mar 01.26	140	72	402
					V449 Per	lun 23.54	115	27	lun 23.55	115	27	lun 23.55	115	27	214
					V912 Per	lun 23.58	114	37	lun 23.58	114	37	lun 23.59	114	36	285
					NLTT11748	mar 00.20	96	20	mar 00.20	96	20	mar 00.20	96	20	268
					V470 Cam	mar 00.40	156	60	mar 00.51	154	59	mar 01.02	153	58	340
					BS UMa	mar 00.42	258	67	mar 01.25	261	75	mar 02.07	262	83	316
					NSVS 07826147	mar 00.43	238	23	mar 00.55	240	24	mar 01.06	241	26	-52
					NY Vir	mar 01.08	294	22	mar 01.17	296	23	mar 01.26	298	25	12
					HW Vir	mar 01.18	313	27	mar 01.29	315	28	mar 01.39	317	29	98
					GJ 3236	mar 01.48	155	35	mar 02.16	157	32	mar 02.45	158	30	240
					DE CVn	mar 02.26	250	64	mar 02.26	250	64	mar 02.27	250	65	156
					NSVS 07826147 II	mar 02.40	252	42	mar 02.51	254	44	mar 03.03	255	46	-52
					V470 Cam	mar 02.58	148	47	mar 03.08	148	46	mar 03.19	148	45	340
					YY Gem II	mar 03.19	102	38	mar 03.19	102	38	mar 03.20	102	37	482
					GSC 2499 246	mar 03.20	93	58	mar 04.10	100	49	mar 05.00	107	40	447
					NY Vir	mar 03.34	331	42	mar 03.42	333	43	mar 03.51	336	43	13
					GU Boo	mar 03.49	269	55	mar 04.35	277	64	mar 05.22	290	72	-52
					HAT-225-0003429 II	mar 03.59	94	51	mar 04.33	99	44	mar 05.07	104	38	449
					HW Vir	mar 04.06	1	39	mar 04.17	4	39	mar 04.27	7	39	99
					NSVS 07826147	mar 04.36	267	63	mar 04.48	269	66	mar 04.59	271	68	-51
					NN Ser	mar 04.43	301	46	mar 04.43	301	46	mar 04.43	301	46	-191
mar 15-01-13	17.02	17.35	04.47	05.20	NLTT11748	mar 17.02	304	55	mar 17.02	304	55	mar 17.03	304	55	263
					HS 2231+2441	mar 17.15	84	45	mar 17.15	84	45	mar 17.15	84	45	-240
					V470 Cam	mar 19.02	211	53	mar 19.13	210	54	mar 19.23	209	55	338
					HAT-225-0003429	mar 19.20	249	29	mar 19.54	254	35	mar 20.28	258	41	450

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					NSVS 02502726	mar 19.34	230	46	mar 20.34	232	54	mar 21.35	230	63	403
					AP Tau	mar 19.45	337	74	mar 19.45	338	74	mar 19.46	338	74	373
					NLTT11748	mar 19.49	26	64	mar 19.49	26	64	mar 19.50	26	64	262
					HAT-136-0003262	mar 20.10	251	54	mar 21.01	255	63	mar 21.52	258	72	454
					GJ 3236	mar 20.19	165	61	mar 20.47	161	59	mar 21.15	158	57	237
					NSVS 06507557 II	mar 20.30	83	47	mar 21.15	91	39	mar 22.00	158	30	88
					BX Tri	mar 20.31	90	55	mar 21.22	98	46	mar 22.13	105	36	145
					GSC 2499 246	mar 20.57	259	48	mar 21.47	266	57	mar 22.37	275	67	449
					V470 Cam	mar 21.20	195	63	mar 21.30	193	64	mar 21.41	191	64	338
					BS Uma II	mar 21.40	242	36	mar 22.23	246	43	mar 23.05	250	50	320
					HAT-131-0026711	mar 22.26	118	69	mar 22.26	118	69	mar 22.26	118	69	368
					NLTT11748	mar 22.36	79	39	mar 22.37	79	39	mar 22.37	79	39	261
					V449 Per	mar 22.37	105	40	mar 22.37	105	40	mar 22.37	105	40	207
					YY Gem II	mar 22.52	360	80	mar 22.52	0	80	mar 22.52	0	80	481
					CU Cnc	mar 23.11	338	66	mer 00.11	13	67	mer 01.11	44	62	484
					V470 Cam	mar 23.37	165	63	mar 23.48	163	63	mar 23.59	161	62	338
					HAT-225-0003429 II	mer 00.27	344	81	mer 01.01	29	80	mer 01.35	57	76	451
					V608 Aur	mer 01.03	110	42	mer 02.04	117	32	mer 03.04	124	22	396
					HAT-216-0003316	mer 01.15	109	28	mer 01.15	109	28	mer 01.16	109	28	353
					GSC 2499 246	mer 01.21	62	79	mer 02.11	81	70	mer 03.02	91	61	449
					NY Vir	mer 01.23	298	25	mer 01.31	300	26	mer 01.40	302	28	21
					BS UMa	mer 01.52	262	81	mer 02.34	248	88	mer 03.17	98	84	320
					V470 Cam	mer 01.55	149	53	mer 02.06	149	52	mer 02.17	149	51	338
					NSVS 07826147 II	mer 01.58	248	35	mer 02.09	249	37	mer 02.20	251	39	-47
					NSVS 02502726 II	mer 02.17	131	64	mer 03.18	128	56	mer 04.18	130	47	403
					HW Vir	mer 02.31	332	35	mer 02.41	335	36	mer 02.51	338	37	106
					NN Ser	mer 02.34	274	24	mer 02.34	274	24	mer 02.35	274	24	-185
					GU Boo	mer 03.17	265	50	mer 04.03	272	59	mer 04.49	282	67	-46
					NY Vir	mer 03.48	337	43	mer 03.57	340	44	mer 04.06	342	45	22
					NSVS 07826147	mer 03.54	262	56	mer 04.05	263	58	mer 04.17	265	61	-46
					HAT-136-0003262 II	mer 03.58	115	42	mer 04.49	121	33	mer 05.40	126	25	454
					V470 Cam	mer 04.13	150	39	mer 04.24	150	38	mer 04.34	150	37	338
					DE CVn	mer 04.39	191	86	mer 04.39	191	86	mer 04.40	190	86	161
mer 16-01-13	17.03	17.36	04.47	05.20	HS 2231+2441	mer 17.08	84	46	mer 17.08	84	46	mer 17.08	84	46	-246
					V912 Per	mer 17.33	270	74	mer 17.33	270	74	mer 17.34	270	74	273
					V470 Cam	mer 17.59	212	47	mer 18.10	212	48	mer 18.21	212	49	337
					NLTT11748	mer 18.06	331	63	mer 18.06	331	63	mer 18.06	331	63	255
					PTFEB11.441	mer 18.20	102	64	mer 18.20	102	64	mer 18.21	102	64	14
					YY Gem II	mer 18.24	258	38	mer 18.25	258	38	mer 18.25	258	38	480
					DV Psc	mer 18.52	66	32	mer 19.37	75	24	mer 20.22	83	16	-180
					GSC 2499 246	mer 18.58	245	28	mer 19.48	251	37	mer 20.38	257	46	450
					AP Tau	mer 19.05	314	70	mer 19.05	314	70	mer 19.05	314	70	367
					V608 Aur	mer 19.22	271	75	mer 20.23	299	86	mer 21.23	79	82	393
					HAT-136-0003262 II	mer 19.33	248	48	mer 20.24	253	57	mer 21.15	256	66	453
					BX Tri	mer 19.38	81	64	mer 20.29	90	55	mer 21.20	98	45	138
					V470 Cam	mer 20.17	204	60	mer 20.28	203	60	mer 20.38	201	61	337
					NLTT11748	mer 20.53	54	56	mer 20.53	54	56	mer 20.53	54	56	254
					HAT-225-0003429 II	mer 20.55	263	46	mer 21.29	268	53	mer 22.03	273	59	453
					NSVS 06507557 II	mer 21.13	91	38	mer 21.58	98	30	mer 22.43	105	22	79
					V449 Per	mer 21.19	95	53	mer 21.20	95	53	mer 21.20	95	53	200
					DE CVn	mer 22.08	229	24	mer 22.08	229	24	mer 22.08	229	24	165
					NSVS 02502726	mer 22.26	223	71	mer 23.27	200	77	gio 00.27	161	77	403
					V470 Cam	mer 22.35	178	65	mer 22.45	175	65	mer 22.56	173	65	336
					BS Uma II	mer 22.50	249	48	mer 23.33	253	56	gio 00.15	256	64	324
					GSC 2499 246	mer 23.22	288	76	gio 00.12	329	83	gio 01.03	51	81	451
					NLTT11748	mer 23.40	91	26	mer 23.40	91	26	mer 23.40	91	26	253
					V470 Cam	gio 00.52	154	58	gio 01.03	153	57	gio 01.14	152	56	336
					HW Vir	gio 00.56	309	24	gio 01.06	312	26	gio 01.16	314	27	114
					NSVS 07826147 II	gio 01.15	243	29	gio 01.27	245	31	gio 01.38	246	33	-42
					NY Vir	gio 01.37	302	28	gio 01.46	304	29	gio 01.55	306	31	30
					HAT-192-0001841	gio 01.42	239	29	gio 02.08	242	33	gio 02.35	245	37	-78
					HAT-225-0003429	gio 02.03	71	71	gio 02.36	80	65	gio 03.10	87	58	453
					GU Boo	gio 02.44	260	45	gio 03.30	267	53	gio 04.16	275	62	-41
					BS UMa	gio 03.02	100	86	gio 03.44	98	78	gio 04.27	101	70	325
					V470 Cam	gio 03.10	148	45	gio 03.21	148	44	gio 03.32	149	43	336
					NSVS 07826147	gio 03.12	257	49	gio 03.23	258	51	gio 03.35	260	54	-42
					HAT-136-0003262	gio 03.21	112	47	gio 04.12	117	39	gio 05.03	122	30	453
					NN Ser	gio 03.33	286	36	gio 03.33	286	36	gio 03.33	286	36	-178
					HW Vir	gio 03.44	356	39	gio 03.54	359	39	gio 04.04	2	39	115
					GSC 2499 246	gio 03.46	98	52	gio 04.36	105	43	gio 05.27	111	34	451

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					GK Boo	gio 03.54	274	67	gio 05.00	295	79	gio 06.06	30	84	38
					NY Vir	gio 04.03	343	45	gio 04.12	346	45	gio 04.20	349	45	30
					YY Gem	gio 04.11	110	27	gio 04.11	110	27	gio 04.11	110	27	480
					NSVS 07826147 II	gio 05.08	274	71	gio 05.20	276	73	gio 05.31	279	75	-41
gio 17-01-13	17.04	17.37	04.46	05.20	V470 Cam	gio 16.56	211	41	gio 17.07	211	42	gio 17.18	212	43	335
					DV Psc	gio 17.05	39	47	gio 17.50	52	41	gio 18.35	63	34	-188
					AP Tau	gio 18.24	298	65	gio 18.25	298	65	gio 18.25	298	65	362
					NSVS 02502726 II	gio 18.35	227	38	gio 19.36	230	47	gio 20.36	232	56	403
					BX Tri	gio 18.45	65	73	gio 19.36	81	64	gio 20.27	91	54	130
					HAT-136-0003262	gio 18.56	245	42	gio 19.47	250	51	gio 20.38	254	60	453
					NLTT11748	gio 19.09	8	66	gio 19.10	8	66	gio 19.10	8	66	247
					V470 Cam	gio 19.14	209	55	gio 19.25	209	56	gio 19.36	208	57	335
					BS UMa	gio 19.48	230	20	gio 20.31	235	26	gio 21.13	240	33	328
					V449 Per	gio 20.02	83	67	gio 20.02	83	67	gio 20.02	83	67	193
					PTFEB11.441	gio 20.10	112	44	gio 20.10	112	44	gio 20.10	112	44	6
					V912 Per	gio 21.17	98	63	gio 21.17	98	63	gio 21.17	98	63	266
					GSC 2499 246	gio 21.23	264	54	gio 22.13	272	64	gio 23.04	283	73	452
					V470 Cam	gio 21.32	191	64	gio 21.43	189	65	gio 21.53	186	65	335
					NLTT11748	gio 21.56	72	45	gio 21.57	72	45	gio 21.57	72	44	246
					NSVS 06507557 II	gio 21.57	99	29	gio 22.42	106	21	gio 23.27	112	13	70
					HAT-131-0026711	gio 22.14	119	70	gio 22.14	119	70	gio 22.15	118	70	359
					HAT-225-0003429	gio 22.31	280	65	gio 23.05	290	71	gio 23.39	306	77	455
					V608 Aur II	gio 22.51	88	76	gio 23.51	97	65	ven 00.51	103	54	435
					NSVS 01031772	gio 23.31	194	43	ven 00.16	194	45	ven 01.02	193	47	175
					YY Gem	gio 23.43	54	74	gio 23.43	54	74	gio 23.44	54	74	479
					V470 Cam	gio 23.50	161	62	ven 00.00	160	62	ven 00.11	158	61	334
					BS Uma II	ven 00.00	256	62	ven 00.43	259	69	ven 01.25	262	77	328
					DE CVn	ven 00.21	243	45	ven 00.21	243	45	ven 00.22	243	45	170
					NSVS 07826147 II	ven 00.33	239	23	ven 00.44	240	25	ven 00.56	241	26	-37
					NSVS 02502726	ven 01.18	139	71	ven 02.19	130	63	ven 03.19	128	54	403
					GSC 2499 246	ven 01.47	77	73	ven 02.38	88	64	ven 03.28	96	54	453
					NY Vir	ven 01.52	306	31	ven 02.01	308	32	ven 02.09	310	33	38
					V470 Cam	ven 02.07	149	51	ven 02.18	148	50	ven 02.29	148	49	334
					HW Vir	ven 02.08	328	34	ven 02.19	331	35	ven 02.29	334	36	123
					GU Boo	ven 02.12	257	39	ven 02.58	263	48	ven 03.44	270	57	-36
					NSVS 07826147	ven 02.29	253	42	ven 02.41	254	44	ven 02.52	255	47	-37
					HAT-136-0003262 II	ven 02.44	109	53	ven 03.35	114	44	ven 04.26	119	36	453
					GK Boo	ven 02.50	264	56	ven 03.56	275	68	ven 05.02	299	80	43
					HAT-192-0001841 II	ven 03.38	252	49	ven 04.04	254	54	ven 04.31	257	59	-74
					HAT-225-0003429 II	ven 03.38	93	52	ven 04.12	98	46	ven 04.46	102	40	455
					GJ 3236	ven 03.51	164	26	ven 04.19	166	24	ven 04.47	169	23	227
					BS UMa	ven 04.12	100	72	ven 04.54	103	64	ven 05.37	107	57	329
					NY Vir	ven 04.18	349	45	ven 04.26	352	46	ven 04.35	356	46	39
					V470 Cam	ven 04.25	150	37	ven 04.36	151	36	ven 04.47	151	36	334
					NSVS 07826147 II	ven 04.26	267	64	ven 04.37	269	66	ven 04.49	271	68	-36
					NN Ser	ven 04.31	301	46	ven 04.31	301	46	ven 04.32	301	46	-171
					HW Vir	ven 04.56	20	37	ven 05.07	23	37	ven 05.17	26	36	124
ven 18-01-13	17.05	17.38	04.46	05.19	GSC 1941 1746	ven 12.31	194	-22	ven 17.58	255	21	ven 23.25	355	72	488
					NSVS 06507557	ven 16.29	333	72	ven 17.14	7	73	ven 17.59	38	70	64
					V608 Aur II	ven 17.10	249	41	ven 18.10	256	52	ven 19.11	262	63	432
					NSVS 01031772	ven 17.11	181	31	ven 17.57	183	32	ven 18.43	186	32	175
					NLTT11748	ven 17.26	316	60	ven 17.26	316	60	ven 17.26	317	60	240
					V471 Tau	ven 17.41	321	60	ven 17.42	321	61	ven 17.42	322	61	248
					CU Cnc	ven 17.42	256	14	ven 18.42	265	25	ven 19.41	275	36	488
					AP Tau	ven 17.44	287	58	ven 17.44	287	58	ven 17.45	287	58	356
					BX Tri	ven 17.52	32	80	ven 18.43	66	73	ven 19.34	81	64	122
					V470 Cam	ven 18.11	212	49	ven 18.22	211	50	ven 18.33	211	51	333
					HAT-136-0003262 II	ven 18.19	242	37	ven 19.10	247	45	ven 20.01	251	54	453
					V449 Per	ven 18.44	53	80	ven 18.45	53	80	ven 18.45	53	79	186
					HAT-225-0003429	ven 18.59	248	27	ven 19.33	253	33	ven 20.07	257	39	457
					YY Gem	ven 19.16	267	48	ven 19.16	267	49	ven 19.16	267	49	478
					HAT-133-0002525	ven 19.20	254	64	ven 20.29	256	76	ven 21.38	203	88	426
					GSC 2499 246	ven 19.24	249	34	ven 20.14	255	43	ven 21.05	262	52	454
					NLTT11748	ven 20.13	42	60	ven 20.13	42	60	ven 20.13	42	60	239
					V470 Cam	ven 20.29	201	61	ven 20.40	200	62	ven 20.51	198	62	333
					BS UMa	ven 20.58	239	31	ven 21.41	243	38	ven 22.23	247	45	332
					NSVS 02502726 II	ven 21.27	230	64	ven 22.28	220	72	ven 23.28	194	77	403
					PTFEB11.441	ven 21.59	125	25	ven 21.59	125	25	ven 22.00	125	25	-2
					GJ 3236	ven 22.21	153	51	ven 22.49	152	49	ven 23.18	151	46	224

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					BX Tri	ven 22.29	109	31	ven 23.20	115	23	sab 00.11	122	14	121
					V470 Cam	ven 22.47	173	65	ven 22.58	171	64	ven 23.09	168	64	332
					NLTT11748	ven 23.00	85	32	ven 23.00	85	32	ven 23.00	85	32	238
					GSC 2499 246	ven 23.48	309	81	sab 00.39	32	83	sab 01.29	72	76	454
					HAT-225-0003429 II	sab 00.06	333	81	sab 00.40	18	81	sab 01.14	51	77	457
					HW Vir	sab 00.33	306	22	sab 00.43	308	24	sab 00.53	311	25	131
					V912 Per	sab 01.00	123	24	sab 01.00	123	24	sab 01.01	123	24	258
					V470 Cam	sab 01.05	152	56	sab 01.15	151	55	sab 01.26	150	54	332
					BS Uma II	sab 01.10	261	75	sab 01.52	262	83	sab 02.35	126	89	333
					GU Boo	sab 01.39	253	34	sab 02.25	259	43	sab 03.11	265	51	-30
					GK Boo	sab 01.46	256	45	sab 02.52	265	57	sab 03.58	276	69	48
					NSVS 07826147	sab 01.47	248	36	sab 01.59	249	38	sab 02.10	251	40	-32
					HAT-192-0001841 II	sab 01.51	241	32	sab 02.18	244	36	sab 02.45	247	40	-70
					NSVS 01031772	sab 02.01	191	49	sab 02.47	189	51	sab 03.33	186	52	175
					HAT-136-0003262	sab 02.07	107	59	sab 02.58	111	50	sab 03.49	116	41	453
					NY Vir	sab 02.07	311	33	sab 02.15	313	35	sab 02.24	315	36	47
					NN Ser	sab 02.22	274	24	sab 02.23	274	24	sab 02.23	274	24	-165
					DE CVn	sab 02.34	250	69	sab 02.34	250	69	sab 02.35	250	69	176
					HW Vir	sab 03.21	351	39	sab 03.31	354	39	sab 03.41	358	39	132
					V470 Cam	sab 03.22	149	43	sab 03.33	149	42	sab 03.44	149	41	332
					NSVS 07826147 II	sab 03.44	262	57	sab 03.55	264	59	sab 04.06	265	61	-31
					NSVS 02502726	sab 04.10	130	46	sab 05.11	133	38	sab 06.11	138	30	403
					GSC 2499 246	sab 04.12	103	46	sab 05.03	109	37	sab 05.53	115	28	455
					NY Vir	sab 04.32	356	46	sab 04.41	359	46	sab 04.49	2	46	48
sab 19-01-13	17.06	17.39	04.45	05.19	GSC 1941 1746 II	sab 15.42	234	-2	sab 21.09	290	56	dom 02.36	81	47	488
					GJ 3236	sab 16.52	198	59	sab 17.20	194	61	sab 17.48	190	62	221
					BX Tri	sab 16.59	329	80	sab 17.50	34	80	sab 18.41	67	72	115
					V470 Cam	sab 17.09	212	43	sab 17.20	212	44	sab 17.30	212	45	331
					NSVS 06507557	sab 17.13	9	73	sab 17.58	40	70	sab 18.43	60	63	55
					GSC 2499 246	sab 17.25	234	15	sab 18.16	241	23	sab 19.06	247	31	456
					V449 Per	sab 17.27	314	81	sab 17.27	314	81	sab 17.28	314	81	179
					NSVS 02502726	sab 17.37	223	32	sab 18.37	228	40	sab 19.37	231	48	403
					HAT-136-0003262	sab 17.42	238	32	sab 18.33	244	40	sab 19.24	248	48	452
					NLTT11748	sab 18.29	349	65	sab 18.30	350	66	sab 18.30	350	66	232
					V471 Tau	sab 18.42	354	65	sab 18.43	354	65	sab 18.43	355	65	240
					V470 Cam	sab 19.26	208	56	sab 19.37	207	57	sab 19.48	206	58	331
					NSVS 01031772	sab 19.41	189	34	sab 20.27	191	35	sab 21.13	192	37	175
					HAT-225-0003429 II	sab 20.34	261	45	sab 21.08	266	51	sab 21.42	272	57	459
					V608 Aur	sab 20.39	40	87	sab 21.39	87	77	sab 22.39	96	66	378
					NLTT11748	sab 21.16	64	50	sab 21.17	64	50	sab 21.17	64	50	231
					BX Tri	sab 21.36	102	40	sab 22.27	109	31	sab 23.18	116	22	113
					V470 Cam	sab 21.44	186	65	sab 21.55	184	65	sab 22.06	182	65	330
					GSC 2499 246	sab 21.49	269	61	sab 22.40	279	70	sab 23.30	298	79	456
					HAT-131-0026711	sab 22.02	119	71	sab 22.03	119	71	sab 22.03	119	71	350
					BS UMa	sab 22.08	246	43	sab 22.51	250	51	sab 23.33	254	58	336
					HAT-145-0001586	sab 23.38	237	37	dom 00.44	243	47	dom 01.50	247	59	155
					V470 Cam	dom 00.02	158	61	dom 00.13	157	60	dom 00.24	155	59	330
					NSVS 02502726 II	dom 00.20	159	76	dom 01.20	137	70	dom 02.20	130	62	403
					YY Gem II	dom 00.35	76	64	dom 00.35	77	64	dom 00.35	77	64	476
					GK Boo	dom 00.42	249	34	dom 01.48	257	46	dom 02.54	266	58	54
					NSVS 07826147	dom 01.05	244	29	dom 01.16	245	31	dom 01.28	246	33	-27
					GU Boo	dom 01.07	249	29	dom 01.53	255	38	dom 02.39	261	46	-25
					HAT-136-0003262 II	dom 01.29	104	65	dom 02.20	108	56	dom 03.11	112	47	452
					HAT-225-0003429	dom 01.41	68	72	dom 02.15	78	66	dom 02.49	86	60	459
					HW Vir	dom 01.46	324	32	dom 01.56	327	33	dom 02.06	330	34	140
					GSC 2499 246	dom 02.14	85	67	dom 03.04	94	57	dom 03.54	101	48	456
					V470 Cam	dom 02.20	148	49	dom 02.30	148	48	dom 02.41	148	47	330
					BS Uma II	dom 02.20	245	89	dom 03.02	98	83	dom 03.45	99	76	337
					NY Vir	dom 02.21	315	36	dom 02.30	318	37	dom 02.39	320	38	56
					NSVS 07826147 II	dom 03.01	257	50	dom 03.13	259	52	dom 03.24	260	54	-27
					NN Ser	dom 03.21	286	36	dom 03.21	286	36	dom 03.21	286	36	-158
					HAT-192-0001841	dom 03.47	253	52	dom 04.14	256	57	dom 04.41	259	62	-65
					NSVS 01031772	dom 04.31	181	53	dom 05.17	178	52	dom 06.03	174	52	175
					HW Vir	dom 04.34	15	38	dom 04.44	18	38	dom 04.54	22	37	141
					V470 Cam	dom 04.37	151	36	dom 04.48	152	35	dom 04.59	153	34	330
					NY Vir	dom 04.47	3	46	dom 04.55	6	46	dom 05.04	9	46	57
					DE CVn	dom 04.47	137	85	dom 04.47	136	85	dom 04.48	136	85	181
					NSVS 07826147	dom 04.58	274	71	dom 05.09	277	73	dom 05.21	280	75	-26
dom 20-01-13	17.07	17.40	04.45	05.18	HAT-136-0003262 II	dom 17.05	235	26	dom 17.56	240	34	dom 18.47	245	43	452

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					NSVS 06507557	dom 17.56	41	69	dom 18.41	61	63	dom 19.26	74	55	46
					V470 Cam	dom 18.24	211	51	dom 18.35	211	52	dom 18.45	210	53	329
					V912 Per	dom 18.35	324	88	dom 18.36	325	88	dom 18.36	326	88	246
					GSC 1941 1746	dom 18.53	265	32	lun 00.20	38	69	lun 05.47	112	12	489
					BS Uma II	dom 19.06	226	16	dom 19.49	232	22	dom 20.31	237	28	340
					NLTT11748	dom 19.33	27	64	dom 19.33	27	64	dom 19.33	28	64	224
					V471 Tau	dom 19.43	30	63	dom 19.44	30	63	dom 19.44	30	63	232
					GSC 2499 246	dom 19.50	253	40	dom 20.41	260	49	dom 21.31	267	58	457
					YY Gem II	dom 20.07	277	59	dom 20.07	277	60	dom 20.08	277	60	475
					NSVS 02502726	dom 20.29	232	56	dom 21.29	229	65	dom 22.29	218	73	402
					V470 Cam	dom 20.42	198	62	dom 20.52	196	63	dom 21.03	194	64	328
					BX Tri	dom 20.43	95	49	dom 21.34	102	40	dom 22.25	109	31	105
					HAT-225-0003429	dom 22.10	278	63	dom 22.44	287	69	dom 23.17	300	75	460
					NSVS 01031772	dom 22.11	194	40	dom 22.57	194	42	dom 23.43	194	44	175
					DE CVn	dom 22.16	232	27	dom 22.16	232	27	dom 22.16	232	27	184
					NLTT11748	dom 22.20	79	38	dom 22.20	79	38	dom 22.21	79	38	223
					V470 Cam	dom 22.59	169	64	dom 23.10	166	64	dom 23.21	164	63	328
					BS UMa	dom 23.18	253	56	lun 00.01	257	64	lun 00.43	260	72	340
					GK Boo	dom 23.38	241	24	lun 00.44	250	35	lun 01.50	258	47	59
					V608 Aur II	lun 00.07	100	60	lun 01.07	106	49	lun 02.08	113	38	424
					HW Vir	lun 00.10	303	20	lun 00.20	305	22	lun 00.31	307	23	148
					GSC 2499 246	lun 00.15	2	84	lun 01.05	64	78	lun 01.55	82	69	457
					NSVS 07826147	lun 00.23	239	23	lun 00.34	240	25	lun 00.45	242	27	-22
					GU Boo	lun 00.34	245	24	lun 01.20	251	32	lun 02.06	258	41	-19
					HAT-136-0003262	lun 00.52	102	71	lun 01.43	105	62	lun 02.34	110	53	452
					V470 Cam	lun 01.17	150	54	lun 01.28	150	53	lun 01.39	149	52	328
					HAT-192-0001841	lun 02.01	243	34	lun 02.28	246	39	lun 02.54	248	44	-62
					NSVS 07826147 II	lun 02.19	253	43	lun 02.30	254	45	lun 02.42	255	47	-22
					NY Vir	lun 02.36	321	38	lun 02.45	323	39	lun 02.53	326	40	64
					HW Vir	lun 02.58	346	38	lun 03.08	350	39	lun 03.19	353	39	149
					NSVS 02502726 II	lun 03.12	128	54	lun 04.12	130	45	lun 05.12	134	37	402
					HAT-225-0003429 II	lun 03.17	91	54	lun 03.51	96	48	lun 04.25	101	42	461
					BS Uma II	lun 03.30	98	78	lun 04.12	101	70	lun 04.55	104	62	341
					V470 Cam	lun 03.35	149	41	lun 03.46	149	40	lun 03.56	150	39	328
					NSVS 07826147	lun 04.15	268	64	lun 04.27	269	66	lun 04.38	271	68	-21
					NN Ser	lun 04.19	301	46	lun 04.20	301	46	lun 04.20	301	46	-151
					NY Vir	lun 05.01	9	46	lun 05.10	12	45	lun 05.19	15	45	65
lun 21-01-13	17.08	17.41	04.44	05.18	HAT-136-0003262	lun 16.28	231	21	lun 17.19	237	29	lun 18.10	242	37	451
					NSVS 02502726 II	lun 16.38	218	25	lun 17.38	224	33	lun 18.38	228	41	402
					DV Psc	lun 17.21	48	43	lun 18.06	60	36	lun 18.51	70	29	-220
					V470 Cam	lun 17.21	212	45	lun 17.32	212	46	lun 17.43	212	47	326
					NLTT11748	lun 17.49	332	64	lun 17.50	332	64	lun 17.50	333	64	217
					GSC 2499 246	lun 17.52	239	20	lun 18.42	245	29	lun 19.32	252	37	458
					V608 Aur II	lun 18.26	259	57	lun 19.27	266	68	lun 20.27	277	79	421
					HAT-225-0003429	lun 18.38	247	25	lun 19.12	251	31	lun 19.46	256	37	462
					NSVS 06507557	lun 18.40	61	62	lun 19.25	74	55	lun 20.10	84	46	38
					PTFEB11.441	lun 18.52	106	55	lun 18.52	106	55	lun 18.52	106	55	-22
					V470 Cam	lun 19.39	206	58	lun 19.50	205	59	lun 20.00	204	60	326
					BX Tri	lun 19.50	87	58	lun 20.41	95	49	lun 21.32	102	39	98
					BS Uma II	lun 20.16	235	26	lun 20.59	240	33	lun 21.41	244	40	344
					NLTT11748	lun 20.36	55	55	lun 20.37	55	55	lun 20.37	55	55	216
					V471 Tau	lun 20.44	55	54	lun 20.45	55	54	lun 20.45	55	54	224
					HAT-131-0026711	lun 21.51	119	71	lun 21.51	119	71	lun 21.51	119	71	340
					V470 Cam	lun 21.57	182	65	lun 22.07	179	65	lun 22.18	177	65	326
					GSC 1941 1746 II	lun 22.04	312	67	mar 03.31	92	36	mar 08.58	147	-16	489
					GSC 2499 246	lun 22.16	275	67	lun 23.06	290	76	lun 23.57	335	84	459
					V912 Per	lun 22.19	106	49	lun 22.19	106	49	lun 22.19	106	49	238
					GK Boo	lun 22.34	233	14	lun 23.40	242	25	mar 00.46	250	36	65
					NSVS 02502726	lun 23.21	191	77	mar 00.21	154	76	mar 01.21	135	69	402
					NLTT11748	lun 23.23	91	26	lun 23.24	91	26	lun 23.24	91	26	215
					HAT-225-0003429 II	lun 23.45	323	80	mar 00.19	6	81	mar 00.53	44	79	462
					HAT-133-0002525	lun 23.52	106	64	mar 01.01	111	52	mar 02.10	117	40	416
					GU Boo	mar 00.02	242	20	mar 00.48	248	27	mar 01.34	254	36	-14
					V470 Cam	mar 00.14	156	59	mar 00.25	154	59	mar 00.36	153	58	326
					HAT-192-0001841	mar 00.15	231	19	mar 00.41	234	22	mar 01.08	237	27	-58
					HAT-136-0003262 II	mar 00.15	101	77	mar 01.06	103	68	mar 01.57	107	59	451
					GJ 3236	mar 00.24	153	39	mar 00.52	154	37	mar 01.20	155	35	210
					NY Vir	mar 00.25	291	19	mar 00.34	293	21	mar 00.42	295	22	72
					BS UMa	mar 00.28	259	70	mar 01.10	262	77	mar 01.53	261	85	344
					DE CVn	mar 00.29	245	49	mar 00.29	245	49	mar 00.30	245	49	189

Day	Sun	Sun	Sun	Sun	Star Name	Eclipse			Time of			Eclipse			Helio Corr
	-12°	-18°	-18°	-12°		starts	Azi	Alt	minimum	Azi	Alt	ends	Azi	Alt	
					NSVS 01031772	mar 00.42	193	47	mar 01.28	192	49	mar 02.14	190	50	174
					HW Vir	mar 01.23	320	31	mar 01.33	323	32	mar 01.43	326	33	156
					YY Gem	mar 01.26	89	53	mar 01.26	89	53	mar 01.27	89	53	473
					NSVS 07826147 II	mar 01.37	248	36	mar 01.48	250	38	mar 01.59	251	40	-17
					NN Ser	mar 02.11	274	24	mar 02.11	274	24	mar 02.11	274	24	-145
					V470 Cam	mar 02.32	148	47	mar 02.43	148	46	mar 02.54	148	45	325
					GSC 2499 246	mar 02.40	91	60	mar 03.30	99	51	mar 04.21	105	42	459
					NY Vir	mar 02.51	326	40	mar 02.59	329	41	mar 03.08	331	42	73
					NSVS 07826147	mar 03.33	262	57	mar 03.45	264	59	mar 03.56	265	61	-16
					HAT-192-0001841 II	mar 03.57	255	55	mar 04.24	258	60	mar 04.50	260	65	-57
					HW Vir	mar 04.11	11	39	mar 04.21	14	38	mar 04.31	17	38	157
					V470 Cam	mar 04.50	152	34	mar 05.01	153	33	mar 05.11	154	32	325
mar 22-01-13	17.09	17.42	04.44	05.17	NSVS 01031772	mar 18.22	186	32	mar 19.08	188	33	mar 19.54	190	35	174
					V470 Cam	mar 18.36	210	53	mar 18.47	210	54	mar 18.58	209	55	324
					NLTT11748	mar 18.53	10	66	mar 18.53	10	66	mar 18.54	10	66	209
					GJ 3236	mar 18.54	175	63	mar 19.23	170	62	mar 19.51	165	61	207
					BX Tri	mar 18.57	76	67	mar 19.48	87	58	mar 20.39	96	49	90
					NSVS 06507557	mar 19.23	75	54	mar 20.08	84	46	mar 20.53	92	38	29
					NSVS 02502726 II	mar 19.30	231	49	mar 20.30	231	58	mar 21.30	228	66	401
					HAT-225-0003429 II	mar 20.13	260	43	mar 20.47	265	49	mar 21.21	270	56	463
					GSC 2499 246	mar 20.17	258	46	mar 21.07	264	55	mar 21.58	272	65	460
					PTFEB11.441	mar 20.41	118	35	mar 20.41	118	35	mar 20.42	118	35	-30
					V470 Cam	mar 20.54	195	63	mar 21.05	192	64	mar 21.15	190	64	324
					YY Gem	mar 20.59	294	70	mar 20.59	294	70	mar 20.59	294	70	472
					BS Uma II	mar 21.26	243	38	mar 22.09	247	45	mar 22.51	251	53	347
					NLTT11748	mar 21.40	73	44	mar 21.40	73	44	mar 21.41	73	44	208
					V471 Tau	mar 21.45	72	44	mar 21.46	72	43	mar 21.46	72	43	216
					V608 Aur	mar 21.55	92	72	mar 22.55	99	60	mar 23.55	106	49	363
					V470 Cam	mar 23.12	165	63	mar 23.22	163	63	mar 23.33	161	62	323
					GU Boo	mar 23.29	238	15	mer 00.15	244	23	mer 01.01	250	30	-8
					HAT-136-0003262	mar 23.38	102	83	mer 00.29	101	74	mer 01.20	104	65	450
					NY Vir	mer 00.40	295	22	mer 00.48	297	24	mer 00.57	298	25	81
					GSC 2499 246	mer 00.41	53	81	mer 01.31	78	72	mer 02.22	89	63	460
					NSVS 07826147 II	mer 00.54	244	29	mer 01.06	245	31	mer 01.17	246	33	-12
					HAT-225-0003429	mer 01.20	64	74	mer 01.54	76	68	mer 02.28	84	62	464
					V470 Cam	mer 01.29	149	53	mer 01.40	149	51	mer 01.51	149	50	323
					BS UMa	mer 01.38	262	83	mer 02.20	120	89	mer 03.03	98	81	348
					HAT-192-0001841 II	mer 02.11	245	37	mer 02.37	247	42	mer 03.04	250	47	-53
					NSVS 02502726	mer 02.13	129	61	mer 03.13	129	52	mer 04.13	131	44	401
					HW Vir	mer 02.36	342	38	mer 02.46	345	38	mer 02.56	348	39	165
					DE CVn	mer 02.42	250	73	mer 02.42	250	73	mer 02.43	250	73	194
					NSVS 07826147	mer 02.51	257	50	mer 03.02	259	52	mer 03.14	260	54	-12
					NY Vir	mer 03.05	332	42	mer 03.14	334	43	mer 03.23	337	44	82
					NN Ser	mer 03.09	286	36	mer 03.09	286	36	mer 03.10	286	36	-137
					NSVS 01031772	mer 03.12	186	52	mer 03.58	183	52	mer 04.44	179	53	174
					V470 Cam	mer 03.47	150	39	mer 03.58	150	38	mer 04.09	151	37	323
					HAT-145-0001586	mer 03.51	237	81	mer 04.57	139	84	mer 06.03	113	74	170
					NSVS 07826147 II	mer 04.47	274	71	mer 04.59	277	73	mer 05.10	280	76	-11
mer 23-01-13	17.10	17.43	04.43	05.16	V608 Aur	mer 16.14	252	45	mer 17.14	258	56	mer 18.14	265	67	359
					RX J2130.6+4710	mer 17.15	123	39	mer 17.15	123	39	mer 17.16	123	39	-183
					V470 Cam	mer 17.33	212	47	mer 17.44	212	48	mer 17.55	212	49	321
					BX Tri	mer 18.04	57	76	mer 18.55	77	67	mer 19.46	88	58	82
					GSC 2499 246	mer 18.18	243	26	mer 19.08	250	34	mer 19.59	256	43	460
					HS 2231+2441	mer 19.00	106	20	mer 19.00	106	20	mer 19.00	106	20	-287
					V470 Cam	mer 19.51	204	60	mer 20.02	203	61	mer 20.13	201	61	321
					NLTT11748	mer 19.56	43	60	mer 19.57	43	60	mer 19.57	43	60	201
					NSVS 06507557	mer 20.06	85	46	mer 20.51	92	37	mer 21.36	99	29	20
					NSVS 01031772	mer 20.52	192	37	mer 21.38	193	39	mer 22.24	194	41	174
					HAT-131-0026711	mer 21.39	120	72	mer 21.39	120	72	mer 21.39	120	72	330
					HAT-225-0003429	mer 21.49	276	61	mer 22.22	284	68	mer 22.56	296	74	465
					V470 Cam	mer 22.09	177	65	mer 22.20	175	65	mer 22.31	172	65	321
					NSVS 02502726 II	mer 22.22	216	73	mer 23.22	185	78	gio 00.22	149	75	401
					BS Uma II	mer 22.36	250	51	mer 23.19	254	58	gio 00.01	258	66	351
					GSC 2499 246	mer 22.42	284	74	mer 23.33	313	82	gio 00.23	37	83	461
					NLTT11748	mer 22.44	86	32	mer 22.44	86	32	mer 22.44	86	32	200
					V471 Tau	mer 22.46	85	32	mer 22.47	85	32	mer 22.47	85	32	208
					HAT-136-0003262 II	mer 23.01	147	89	mer 23.52	101	80	gio 00.43	102	71	449
					V449 Per	mer 23.38	117	24	mer 23.39	117	23	mer 23.39	117	23	145
					NSVS 07826147 II	gio 00.12	239	23	gio 00.23	240	25	gio 00.35	242	27	-7

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					HAT-192-0001841 II	gio 00.25	233	21	gio 00.51	236	25	gio 01.18	239	29	-49
					V470 Cam	gio 00.27	153	58	gio 00.37	152	57	gio 00.48	151	56	321
					G179-55	gio 00.30	233	28	gio 00.31	233	28	gio 00.31	233	28	1
					NY Vir	gio 00.54	299	25	gio 01.03	301	27	gio 01.12	302	28	89
					HW Vir	gio 01.00	317	29	gio 01.10	319	30	gio 01.21	322	31	173
					V608 Aur II	gio 01.23	109	44	gio 02.24	116	33	gio 03.24	123	24	413
					NSVS 07826147	gio 02.09	253	43	gio 02.20	254	45	gio 02.31	256	47	-7
					YY Gem II	gio 02.17	98	42	gio 02.18	98	42	gio 02.18	98	42	469
					V470 Cam	gio 02.44	148	45	gio 02.55	148	44	gio 03.06	149	43	320
					BS UMa	gio 02.48	98	83	gio 03.30	99	75	gio 04.13	102	68	352
					HAT-225-0003429 II	gio 02.56	90	56	gio 03.29	95	50	gio 04.03	100	43	465
					GSC 2499 246	gio 03.06	97	54	gio 03.57	103	45	gio 04.47	109	36	461
					NY Vir	gio 03.20	338	44	gio 03.29	341	44	gio 03.37	343	45	90
					HW Vir	gio 03.48	6	39	gio 03.58	9	39	gio 04.09	12	39	174
					NSVS 07826147 II	gio 04.05	268	64	gio 04.16	270	66	gio 04.28	271	68	-6
					HAT-192-0001841	gio 04.07	257	58	gio 04.34	259	63	gio 05.00	262	68	-49
					NN Ser	gio 04.08	301	46	gio 04.08	301	46	gio 04.08	301	46	-130
					DE CVn	gio 04.55	118	81	gio 04.55	118	81	gio 04.56	118	81	199
					V470 Cam	gio 05.02	154	32	gio 05.13	154	31	gio 05.24	155	30	320
gio 24-01-13	17.11	17.44	04.43	05.16	BX Tri	gio 17.11	11	81	gio 18.02	58	76	gio 18.53	77	67	74
					NLTT11748	gio 18.13	351	66	gio 18.13	352	66	gio 18.14	352	66	193
					RX J2130.6+4710	gio 18.16	129	29	gio 18.16	129	29	gio 18.16	129	29	-187
					HAT-225-0003429	gio 18.17	246	24	gio 18.51	250	30	gio 19.25	255	36	466
					NSVS 02502726	gio 18.31	228	42	gio 19.31	231	50	gio 20.32	231	59	400
					V470 Cam	gio 18.49	209	55	gio 18.59	209	56	gio 19.10	208	57	319
					HS 2231+2441	gio 18.53	105	21	gio 18.53	106	21	gio 18.53	106	21	-292
					HAT-205-0007777	gio 19.13	120	27	gio 19.13	120	27	gio 19.13	120	27	-201
					BS UMa	gio 19.34	232	22	gio 20.17	237	28	gio 20.59	241	35	354
					V912 Per	gio 19.37	87	77	gio 19.38	87	77	gio 19.38	87	76	217
					V608 Aur II	gio 19.42	270	73	gio 20.43	290	84	gio 21.43	75	83	410
					GSC 2499 246	gio 20.43	262	52	gio 21.34	270	62	gio 22.24	280	71	461
					NSVS 06507557	gio 20.50	93	37	gio 21.35	100	28	gio 22.20	106	20	11
					NLTT11748	gio 21.00	65	50	gio 21.00	65	49	gio 21.01	65	49	192
					V470 Cam	gio 21.06	190	64	gio 21.17	188	65	gio 21.28	186	65	318
					BX Tri	gio 21.49	106	34	gio 22.40	113	25	gio 23.31	120	17	73
					YY Gem II	gio 21.50	330	79	gio 21.50	331	79	gio 21.51	331	79	468
					V449 Per	gio 22.21	108	36	gio 22.21	108	36	gio 22.21	108	36	138
					DE CVn	gio 22.24	234	31	gio 22.24	234	31	gio 22.24	234	31	202
					HAT-136-0003262	gio 22.24	257	84	gio 23.15	107	86	ven 00.06	101	77	447
					NSVS 01031772	gio 23.23	194	44	ven 00.09	194	46	ven 00.55	193	48	173
					HAT-225-0003429 II	gio 23.24	315	78	gio 23.58	352	81	ven 00.32	36	80	466
					V470 Cam	gio 23.24	161	62	gio 23.35	159	61	gio 23.46	158	61	318
					BS Uma II	gio 23.46	257	64	ven 00.28	260	72	ven 01.11	262	80	355
					GSC 2499 246	ven 01.07	73	75	ven 01.58	86	66	ven 02.48	95	57	462
					NY Vir	ven 01.09	303	28	ven 01.18	305	30	ven 01.26	307	31	98
					NSVS 02502726 II	ven 01.14	134	68	ven 02.14	129	60	ven 03.15	129	51	400
					NSVS 07826147	ven 01.26	248	36	ven 01.38	250	38	ven 01.49	251	40	-2
					V470 Cam	ven 01.42	149	51	ven 01.53	148	50	ven 02.03	148	48	318
					NN Ser	ven 01.59	274	24	ven 01.59	274	24	ven 01.59	274	24	-124
					HW Vir	ven 02.13	337	37	ven 02.23	340	37	ven 02.33	344	38	181
					HAT-192-0001841	ven 02.21	247	40	ven 02.47	249	45	ven 03.14	252	50	-45
					GJ 3236	ven 02.26	160	29	ven 02.54	162	27	ven 03.23	164	26	196
					NSVS 07826147 II	ven 03.23	262	57	ven 03.34	264	59	ven 03.46	265	61	-1
					NY Vir	ven 03.35	344	45	ven 03.43	347	45	ven 03.52	350	46	99
					BS UMa	ven 03.57	101	70	ven 04.40	104	62	ven 05.23	108	54	355
					V470 Cam	ven 03.59	151	37	ven 04.10	151	36	ven 04.21	152	35	318
					HAT-225-0003429	ven 04.31	104	38	ven 05.05	109	32	ven 05.39	113	26	466
					HW Vir	ven 05.01	29	35	ven 05.11	32	34	ven 05.21	35	33	182
					NN Ser	ven 05.06	320	55	ven 05.06	320	55	ven 05.07	321	55	-123
ven 25-01-13	17.12	17.45	04.42	05.15	NSVS 01031772	ven 17.03	182	32	ven 17.49	184	32	ven 18.35	187	33	173
					YY Gem II	ven 17.23	255	33	ven 17.23	255	33	ven 17.23	255	33	466
					PTFEB11.441	ven 17.33	101	66	ven 17.34	101	66	ven 17.34	101	66	-51
					DV Psc	ven 17.37	57	38	ven 18.22	67	31	ven 19.07	76	23	-250
					V470 Cam	ven 17.46	212	49	ven 17.57	211	50	ven 18.07	211	51	316
					GSC 2499 246	ven 18.44	248	32	ven 19.35	254	40	ven 20.25	260	50	462
					HS 2231+2441	ven 18.46	105	21	ven 18.46	105	21	ven 18.47	105	21	-298
					RX J2130.6+4710	ven 19.16	136	20	ven 19.17	136	20	ven 19.17	136	20	-191
					NLTT11748	ven 19.17	29	63	ven 19.17	29	63	ven 19.17	29	63	185
					HAT-225-0003429 II	ven 19.52	259	41	ven 20.26	263	48	ven 21.00	269	54	467

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					V470 Cam	ven 20.04	201	61	ven 20.14	200	62	ven 20.25	198	63	316
					BS UMa	ven 20.44	240	33	ven 21.27	244	40	ven 22.09	249	48	358
					BX Tri	ven 20.56	100	43	ven 21.47	106	34	ven 22.38	113	25	65
					GJ 3236	ven 20.57	156	56	ven 21.25	154	54	ven 21.53	153	51	193
					V449 Per	ven 21.03	98	50	ven 21.04	98	49	ven 21.04	98	49	130
					NSVS 02502726	ven 21.23	227	67	ven 22.23	213	74	ven 23.24	179	78	399
					HAT-131-0026711	ven 21.27	120	73	ven 21.27	120	73	ven 21.28	120	72	319
					HAT-136-0003262 II	ven 21.47	260	78	ven 22.38	243	88	ven 23.29	101	83	446
					NLTT11748	ven 22.04	80	38	ven 22.04	80	38	ven 22.04	80	37	184
					V470 Cam	ven 22.21	173	65	ven 22.32	170	64	ven 22.43	168	64	316
					GSC 2499 246	ven 23.09	299	79	ven 23.59	10	84	sab 00.49	67	78	462
					V608 Aur	ven 23.11	102	55	sab 00.11	109	45	sab 01.12	116	34	346
					V912 Per	ven 23.21	115	36	ven 23.21	115	35	ven 23.21	115	35	209
					HAT-192-0001841	sab 00.34	235	24	sab 01.01	238	28	sab 01.28	241	32	-41
					DE CVn	sab 00.37	246	53	sab 00.37	246	53	sab 00.38	246	53	207
					HW Vir	sab 00.37	313	27	sab 00.48	316	28	sab 00.58	318	30	189
					V470 Cam	sab 00.39	152	56	sab 00.50	151	55	sab 01.01	150	54	315
					NSVS 07826147	sab 00.44	244	30	sab 00.55	245	32	sab 01.07	247	34	3
					BS Uma II	sab 00.56	262	78	sab 01.38	261	85	sab 02.21	101	87	358
					HAT-225-0003429	sab 00.59	59	75	sab 01.33	73	70	sab 02.07	82	63	467
					NY Vir	sab 01.24	307	31	sab 01.32	309	32	sab 01.41	311	34	106
					NSVS 01031772	sab 01.53	190	50	sab 02.39	187	51	sab 03.25	184	52	173
					NSVS 07826147 II	sab 02.40	258	50	sab 02.52	259	52	sab 03.03	260	54	3
					V470 Cam	sab 02.57	149	43	sab 03.08	149	42	sab 03.18	149	41	315
					NN Ser	sab 02.57	286	36	sab 02.58	286	36	sab 02.58	286	36	-116
					YY Gem	sab 03.09	106	32	sab 03.09	106	32	sab 03.09	106	32	465
					HW Vir	sab 03.26	1	39	sab 03.36	5	39	sab 03.46	8	39	190
					GSC 2499 246	sab 03.33	101	48	sab 04.23	107	39	sab 05.14	114	30	462
					NY Vir	sab 03.49	350	46	sab 03.58	354	46	sab 04.06	357	46	107
					NSVS 02502726 II	sab 04.06	131	43	sab 05.06	135	35	sab 06.07	140	27	399
					HAT-192-0001841 II	sab 04.17	259	62	sab 04.43	261	67	sab 05.10	264	72	-40
					NSVS 07826147	sab 04.37	275	72	sab 04.48	277	74	sab 05.00	281	76	4
sab 26-01-13	17.14	17.47	04.41	05.14	GSC 2499 246	sab 16.45	233	13	sab 17.36	239	21	sab 18.26	246	29	463
					V608 Aur	sab 17.30	261	61	sab 18.30	269	73	sab 19.31	287	84	342
					NSVS 02502726 II	sab 17.32	225	35	sab 18.32	229	43	sab 19.33	231	52	398
					NLTT11748	sab 17.33	334	64	sab 17.33	334	64	sab 17.34	334	64	177
					HS 2231+2441	sab 18.39	105	22	sab 18.40	105	22	sab 18.40	105	22	-303
					HAT-133-0002525	sab 18.41	253	63	sab 19.50	256	75	sab 20.59	229	87	398
					V470 Cam	sab 19.01	208	57	sab 19.12	207	58	sab 19.22	206	58	313
					PTFEB11.441	sab 19.23	111	46	sab 19.23	111	46	sab 19.24	111	46	-59
					NSVS 01031772	sab 19.33	190	35	sab 20.19	191	36	sab 21.05	193	38	173
					V449 Per	sab 19.46	87	63	sab 19.46	87	63	sab 19.47	87	63	123
					BX Tri	sab 20.03	92	52	sab 20.54	100	43	sab 21.45	107	34	57
					NLTT11748	sab 20.20	56	55	sab 20.20	56	55	sab 20.21	56	55	176
					HAT-136-0003262	sab 21.10	258	72	sab 22.01	259	82	sab 22.52	133	88	445
					GSC 2499 246	sab 21.10	267	59	sab 22.00	276	68	sab 22.50	292	77	463
					V470 Cam	sab 21.19	186	65	sab 21.29	184	65	sab 21.40	181	65	313
					HAT-225-0003429	sab 21.27	274	60	sab 22.01	281	66	sab 22.35	292	72	468
					BS UMa	sab 21.54	248	46	sab 22.37	251	53	sab 23.19	255	61	361
					YY Gem	sab 22.41	35	78	sab 22.42	36	78	sab 22.42	36	78	463
					NLTT11748	sab 23.07	92	25	sab 23.07	92	25	sab 23.08	92	25	175
					V470 Cam	sab 23.36	158	61	sab 23.47	156	60	sab 23.58	155	59	313
					NSVS 07826147	dom 00.02	239	23	dom 00.13	241	25	dom 00.24	242	27	8
					NSVS 02502726	dom 00.15	148	74	dom 01.15	133	67	dom 02.16	129	58	398
					CU Cnc	dom 01.15	60	54	dom 02.14	75	44	dom 03.14	87	33	491
					GSC 2499 246	dom 01.34	83	69	dom 02.24	92	60	dom 03.15	99	50	463
					NY Vir	dom 01.38	311	34	dom 01.47	314	35	dom 01.56	316	36	115
					HW Vir	dom 01.50	333	36	dom 02.00	336	36	dom 02.11	339	37	197
					V470 Cam	dom 01.54	148	49	dom 02.05	148	48	dom 02.16	148	46	312
					NSVS 07826147 II	dom 01.58	253	43	dom 02.10	254	45	dom 02.21	256	47	8
					BS Uma II	dom 02.06	116	89	dom 02.48	98	81	dom 03.31	100	73	361
					HAT-192-0001841 II	dom 02.30	248	43	dom 02.57	251	48	dom 03.24	254	53	-36
					HAT-225-0003429 II	dom 02.34	88	58	dom 03.08	94	51	dom 03.42	99	45	468
					DE CVn	dom 02.50	248	77	dom 02.50	248	77	dom 02.51	248	77	212
					NSVS 07826147	dom 03.55	268	64	dom 04.06	270	67	dom 04.17	272	69	9
					NN Ser	dom 03.56	301	46	dom 03.56	301	46	dom 03.56	301	46	-109
					NY Vir	dom 04.04	357	46	dom 04.12	0	46	dom 04.21	3	46	116
					V470 Cam	dom 04.12	151	35	dom 04.23	152	35	dom 04.33	153	34	312
					NSVS 01031772	dom 04.24	180	53	dom 05.09	176	52	dom 05.55	173	51	172
					HW Vir	dom 04.38	25	36	dom 04.48	28	35	dom 04.59	31	34	198

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
dom 27-01-13	17.15	17.48	04.41	05.14	GSC 1941 1746	dom 14.00	222	-11	dom 19.27	275	44	lun 00.54	64	60	488
					NSVS 06507557 II	dom 16.49	16	73	dom 17.34	44	69	dom 18.19	62	62	-13
					HAT-225-0003429	dom 17.56	244	22	dom 18.30	249	28	dom 19.03	253	34	468
					V470 Cam	dom 17.58	211	51	dom 18.09	211	52	dom 18.20	210	53	310
					YY Gem	dom 18.14	263	44	dom 18.14	263	44	dom 18.15	263	44	461
					V449 Per	dom 18.28	65	76	dom 18.29	65	76	dom 18.29	65	76	115
					HS 2231+2441	dom 18.32	104	22	dom 18.33	104	22	dom 18.33	104	22	-308
					NLTT11748	dom 18.37	12	65	dom 18.37	12	65	dom 18.37	12	65	169
					BS Uma II	dom 18.52	228	18	dom 19.35	233	24	dom 20.17	238	30	364
					BX Tri	dom 19.10	84	62	dom 20.01	93	52	dom 20.52	100	43	49
					GSC 2499 246	dom 19.11	252	38	dom 20.01	258	47	dom 20.52	265	56	463
					V470 Cam	dom 20.16	198	62	dom 20.27	196	63	dom 20.38	194	64	310
					NSVS 02502726 II	dom 20.24	231	60	dom 21.25	226	68	dom 22.25	209	75	397
					HAT-136-0003262 II	dom 20.33	256	66	dom 21.24	259	76	dom 22.15	256	85	443
					V608 Aur II	dom 20.59	4	88	dom 21.59	85	78	dom 22.59	95	67	397
					PTFEB11.441	dom 21.13	123	27	dom 21.13	123	27	dom 21.13	123	27	-66
					HAT-131-0026711	dom 21.15	121	73	dom 21.16	121	73	dom 21.16	121	73	308
					NLTT11748	dom 21.24	73	43	dom 21.24	74	43	dom 21.24	74	43	168
					NSVS 01031772	dom 22.04	194	41	dom 22.50	194	43	dom 23.36	194	45	172
					HAT-145-0001586	dom 22.09	231	28	dom 23.15	238	38	lun 00.21	243	49	191
					V470 Cam	dom 22.34	168	64	dom 22.44	166	64	dom 22.55	164	63	310
					HAT-225-0003429 II	dom 23.03	308	77	dom 23.37	340	81	lun 00.11	25	81	469
					BS UMa	dom 23.04	254	59	dom 23.46	258	66	lun 00.29	261	74	364
					GSC 2499 246	dom 23.35	339	84	lun 00.25	56	80	lun 01.16	79	72	463
					HW Vir	lun 00.15	310	25	lun 00.25	312	26	lun 00.35	315	28	205
					HAT-192-0001841 II	lun 00.44	237	27	lun 01.11	240	31	lun 01.37	243	35	-33
					V470 Cam	lun 00.51	150	54	lun 01.02	150	53	lun 01.13	149	52	310
					NSVS 07826147 II	lun 01.16	249	36	lun 01.27	250	38	lun 01.39	251	40	13
					NN Ser	lun 01.47	274	24	lun 01.47	274	24	lun 01.48	274	24	-103
					NY Vir	lun 01.53	316	36	lun 02.02	319	37	lun 02.10	321	39	123
					HW Vir	lun 03.03	357	39	lun 03.13	360	39	lun 03.23	3	39	206
					NSVS 02502726	lun 03.07	129	50	lun 04.08	131	42	lun 05.08	136	34	396
					V470 Cam	lun 03.09	149	41	lun 03.20	149	40	lun 03.31	150	39	309
					NSVS 07826147	lun 03.12	263	57	lun 03.24	264	59	lun 03.35	266	62	14
					BS Uma II	lun 03.15	99	75	lun 03.58	102	67	lun 04.41	105	60	365
					GK Boo	lun 03.38	280	72	lun 04.44	318	83	lun 05.50	60	80	99
					GSC 2499 246	lun 03.59	105	42	lun 04.50	112	33	lun 05.40	118	24	463
					YY Gem II	lun 04.00	114	21	lun 04.01	114	21	lun 04.01	114	21	460
					HAT-225-0003429	lun 04.10	103	39	lun 04.44	107	33	lun 05.18	112	27	469
					NY Vir	lun 04.18	4	46	lun 04.27	7	46	lun 04.36	10	46	124
					HAT-136-0003262	lun 04.20	122	30	lun 05.11	128	23	lun 06.02	135	15	442
					HAT-192-0001841	lun 04.26	260	65	lun 04.53	263	70	lun 05.20	266	75	-32
					GJ 3236	lun 04.29	171	23	lun 04.57	173	22	lun 05.25	176	21	182
					NN Ser	lun 04.54	320	55	lun 04.55	320	55	lun 04.55	321	55	-102
					DE CVn	lun 05.03	112	77	lun 05.03	112	77	lun 05.04	112	77	217
lun 28-01-13	17.16	17.49	04.40	05.13	NSVS 02502726	lun 16.33	221	28	lun 17.34	226	36	lun 18.34	229	44	396
					GSC 1941 1746 II	lun 17.12	254	19	lun 22.39	350	72	mar 04.06	102	24	487
					GSC 2499 246	lun 17.12	237	18	lun 18.02	244	26	lun 18.53	250	35	463
					NSVS 06507557 II	lun 17.33	45	68	lun 18.18	63	61	lun 19.03	75	54	-22
					BX Tri	lun 18.17	71	70	lun 19.08	84	61	lun 19.59	93	52	41
					HS 2231+2441	lun 18.26	104	23	lun 18.26	104	23	lun 18.26	104	23	-313
					V470 Cam	lun 19.13	206	58	lun 19.24	205	59	lun 19.35	204	60	307
					HAT-225-0003429 II	lun 19.31	257	40	lun 20.05	262	46	lun 20.39	267	52	469
					NLTT11748	lun 19.40	45	59	lun 19.40	45	59	lun 19.41	45	59	160
					HAT-136-0003262	lun 19.55	254	60	lun 20.46	258	70	lun 21.37	260	79	441
					BS Uma II	lun 20.02	237	28	lun 20.45	241	35	lun 21.27	246	42	367
					V912 Per	lun 20.39	98	62	lun 20.40	99	62	lun 20.40	99	62	188
					V470 Cam	lun 21.31	181	65	lun 21.42	179	65	lun 21.53	176	65	307
					GSC 2499 246	lun 21.36	273	65	lun 22.27	285	74	lun 23.17	317	82	463
					NLTT11748	lun 22.27	86	31	lun 22.28	87	31	lun 22.28	87	31	159
					DE CVn	lun 22.32	237	34	lun 22.32	237	34	lun 22.32	237	35	220
					GJ 3236	lun 22.59	151	44	lun 23.27	152	42	lun 23.56	153	39	178
					NSVS 02502726 II	lun 23.16	176	78	mar 00.17	144	73	mar 01.17	132	66	395
					YY Gem II	lun 23.33	69	69	lun 23.33	69	69	lun 23.33	69	69	458
					V470 Cam	lun 23.49	155	59	lun 23.59	154	58	mar 00.10	153	58	307
					BS UMa	mar 00.14	260	72	mar 00.56	262	80	mar 01.39	255	88	367
					V608 Aur	mar 00.27	112	40	mar 01.28	119	30	mar 02.28	126	20	328
					NSVS 07826147 II	mar 00.33	244	30	mar 00.45	245	32	mar 00.56	247	34	18
					NSVS 01031772	mar 00.34	193	48	mar 01.20	191	49	mar 02.06	189	51	171

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					HAT-225-0003429	mar 00.38	54	77	mar 01.12	70	71	mar 01.46	80	65	469
					HW Vir	mar 01.27	329	34	mar 01.38	332	35	mar 01.48	335	36	213
					GSC 2499 246	mar 02.00	89	63	mar 02.51	97	53	mar 03.41	104	44	463
					V470 Cam	mar 02.06	148	47	mar 02.17	148	46	mar 02.28	148	45	306
					NY Vir	mar 02.08	321	39	mar 02.16	324	40	mar 02.25	326	41	132
					NSVS 07826147	mar 02.30	258	50	mar 02.41	259	52	mar 02.53	261	55	19
					GK Boo	mar 02.34	268	61	mar 03.40	282	73	mar 04.46	327	84	105
					HAT-192-0001841	mar 02.40	250	47	mar 03.07	253	51	mar 03.33	255	56	-28
					NN Ser	mar 02.46	286	36	mar 02.46	286	36	mar 02.46	286	36	-95
					HAT-136-0003262 II	mar 03.43	119	36	mar 04.34	124	28	mar 05.25	130	20	441
					HW Vir	mar 04.16	21	37	mar 04.26	24	36	mar 04.36	27	36	214
					V470 Cam	mar 04.24	153	34	mar 04.35	153	33	mar 04.46	154	32	306
					BS Uma II	mar 04.25	104	62	mar 05.08	108	54	mar 05.51	112	47	368
					NSVS 07826147 II	mar 04.26	275	72	mar 04.38	278	74	mar 04.49	281	76	19
					NY Vir	mar 04.33	10	45	mar 04.42	13	45	mar 04.50	16	45	133
mar 29-01-13	17.17	17.50	04.39	05.12	BX Tri	mar 17.24	45	78	mar 18.15	72	70	mar 19.06	85	61	33
					GJ 3236	mar 17.30	186	63	mar 17.58	180	63	mar 18.26	175	63	174
					DV Psc	mar 17.52	64	33	mar 18.37	73	26	mar 19.22	82	17	-280
					NLTT11748	mar 17.57	353	66	mar 17.57	353	66	mar 17.57	354	66	153
					V470 Cam	mar 18.11	210	53	mar 18.21	210	54	mar 18.32	209	55	304
					NSVS 01031772	mar 18.14	187	33	mar 19.00	189	34	mar 19.46	191	35	171
					NSVS 06507557 II	mar 18.16	64	61	mar 19.01	76	53	mar 19.46	85	45	-30
					HS 2231+2441	mar 18.19	103	23	mar 18.19	103	23	mar 18.19	103	23	-318
					V608 Aur	mar 18.46	274	78	mar 19.47	342	88	mar 20.47	84	79	324
					YY Gem II	mar 19.05	272	55	mar 19.06	272	55	mar 19.06	272	55	455
					HAT-136-0003262 II	mar 19.18	251	54	mar 20.09	255	63	mar 21.00	259	73	439
					NSVS 02502726	mar 19.25	231	52	mar 20.26	231	61	mar 21.26	225	69	394
					GSC 2499 246	mar 19.37	256	44	mar 20.28	263	53	mar 21.18	270	62	464
					CU Cnc	mar 19.46	285	44	mar 20.45	300	55	mar 21.45	322	63	490
					GSC 1941 1746	mar 20.23	289	55	mer 01.50	80	49	mer 07.17	133	-8	486
					V470 Cam	mar 20.28	194	64	mar 20.39	192	64	mar 20.50	190	64	304
					NLTT11748	mar 20.44	66	49	mar 20.44	66	49	mar 20.44	66	49	152
					HAT-131-0026711	mar 21.04	121	74	mar 21.04	121	74	mar 21.04	121	74	297
					HAT-225-0003429	mar 21.06	272	58	mar 21.40	279	64	mar 22.14	289	70	470
					BS Uma II	mar 21.12	245	40	mar 21.55	249	48	mar 22.37	253	55	370
					BX Tri	mar 22.01	110	29	mar 22.52	117	20	mar 23.43	124	12	31
					V470 Cam	mar 22.46	164	63	mar 22.57	162	63	mar 23.08	160	62	304
					HAT-133-0002525	mar 23.13	106	65	mer 00.22	111	53	mer 01.31	117	41	385
					NSVS 07826147 II	mar 23.51	239	24	mer 00.03	241	25	mer 00.14	242	27	23
					HW Vir	mar 23.52	307	23	mer 00.02	309	24	mer 00.12	311	26	220
					NY Vir	mar 23.57	292	20	mer 00.05	294	21	mer 00.14	295	23	139
					GSC 2499 246	mer 00.01	40	83	mer 00.52	74	75	mer 01.42	87	65	464
					V912 Per	mer 00.23	124	23	mer 00.23	124	23	mer 00.24	124	23	179
					DE CVn	mer 00.45	248	57	mer 00.45	248	57	mer 00.45	248	57	224
					HAT-192-0001841	mer 00.54	239	29	mer 01.21	242	34	mer 01.47	245	38	-24
					V470 Cam	mer 01.04	149	52	mer 01.15	149	51	mer 01.25	149	50	303
					BS UMa	mer 01.24	260	86	mer 02.06	101	86	mer 02.49	98	79	370
					GK Boo	mer 01.30	260	50	mer 02.36	269	62	mer 03.42	284	74	110
					NSVS 07826147	mer 01.48	253	43	mer 01.59	255	45	mer 02.10	256	48	23
					NSVS 02502726 II	mer 02.08	129	58	mer 03.09	129	49	mer 04.09	132	41	394
					HAT-225-0003429 II	mer 02.13	86	59	mer 02.47	92	53	mer 03.21	97	47	470
					NY Vir	mer 02.22	327	41	mer 02.31	329	42	mer 02.39	332	42	140
					HW Vir	mer 02.40	352	39	mer 02.50	355	39	mer 03.01	358	39	221
					NSVS 01031772	mer 03.05	185	52	mer 03.50	181	53	mer 04.36	178	52	171
					HAT-136-0003262	mer 03.06	116	41	mer 03.57	121	33	mer 04.48	127	25	439
					V470 Cam	mer 03.21	150	39	mer 03.32	150	38	mer 03.43	151	37	303
					NN Ser	mer 03.44	301	46	mer 03.44	301	46	mer 03.45	301	46	-88
					NSVS 07826147 II	mer 03.44	268	65	mer 03.56	270	67	mer 04.07	272	69	24
					HAT-192-0001841 II	mer 04.36	262	68	mer 05.03	265	73	mer 05.29	268	78	-23
					NY Vir	mer 04.48	17	45	mer 04.56	20	44	mer 05.05	23	44	141
mer 30-01-13	17.18	17.51	04.38	05.11	BX Tri	mer 16.31	347	81	mer 17.22	47	78	mer 18.13	72	70	25
					V470 Cam	mer 17.08	212	47	mer 17.19	212	48	mer 17.29	212	50	301
					V471 Tau	mer 17.23	335	63	mer 17.23	335	63	mer 17.24	335	63	153
					HAT-225-0003429	mer 17.35	243	21	mer 18.08	248	26	mer 18.42	252	32	470
					GSC 2499 246	mer 17.38	242	24	mer 18.29	248	32	mer 19.19	254	41	464
					PTFEB11.441	mer 18.05	105	57	mer 18.05	105	57	mer 18.06	105	57	-87
					HS 2231+2441	mer 18.12	103	24	mer 18.12	103	24	mer 18.13	103	24	-323
					HAT-136-0003262	mer 18.41	248	49	mer 19.32	253	58	mer 20.23	257	67	437
					NSVS 06507557 II	mer 19.00	77	53	mer 19.45	86	44	mer 20.30	93	36	-39

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					NLTT11748	mer 19.00	31	63	mer 19.01	31	63	mer 19.01	31	63	144
					V470 Cam	mer 19.26	204	60	mer 19.36	202	61	mer 19.47	201	61	301
					NSVS 01031772	mer 20.45	193	38	mer 21.31	194	40	mer 22.17	194	42	170
					BX Tri	mer 21.08	104	38	mer 21.59	111	28	mer 22.50	118	20	23
					V470 Cam	mer 21.43	177	65	mer 21.54	174	65	mer 22.05	172	65	301
					NLTT11748	mer 21.47	81	37	mer 21.48	81	37	mer 21.48	81	37	143
					GSC 2499 246	mer 22.03	280	71	mer 22.53	302	80	mer 23.43	18	84	464
					V608 Aur II	mer 22.15	90	73	mer 23.15	98	62	gio 00.16	105	51	382
					NSVS 02502726	mer 22.17	207	76	mer 23.18	170	77	gio 00.18	141	72	392
					BS Uma II	mer 22.22	252	53	mer 23.04	255	61	mer 23.47	259	69	373
					HAT-225-0003429 II	mer 22.42	302	76	mer 23.15	329	80	mer 23.49	14	81	470
					V470 Cam	gio 00.01	153	58	gio 00.12	152	57	gio 00.23	151	56	300
					NY Vir	gio 00.11	296	23	gio 00.20	297	24	gio 00.29	299	26	148
					YY Gem	gio 00.24	84	58	gio 00.25	84	58	gio 00.25	84	58	452
					GK Boo	gio 00.26	252	39	gio 01.32	261	51	gio 02.38	270	63	115
					HW Vir	gio 01.05	325	33	gio 01.15	328	34	gio 01.25	330	35	228
					NSVS 07826147	gio 01.05	249	37	gio 01.17	250	39	gio 01.28	251	41	28
					NN Ser	gio 01.35	274	24	gio 01.36	274	24	gio 01.36	274	24	-81
					V470 Cam	gio 02.19	148	45	gio 02.30	148	44	gio 02.40	149	43	300
					HAT-145-0001586	gio 02.21	248	71	gio 03.27	233	82	gio 04.33	131	83	204
					GSC 2499 246	gio 02.27	95	56	gio 03.17	102	47	gio 04.08	108	38	464
					HAT-136-0003262 II	gio 02.29	113	47	gio 03.20	117	38	gio 04.11	123	30	437
					BS UMa	gio 02.33	98	81	gio 03.16	100	73	gio 03.59	103	65	373
					NY Vir	gio 02.37	333	42	gio 02.45	335	43	gio 02.54	338	44	149
					HAT-192-0001841 II	gio 02.50	252	50	gio 03.17	255	54	gio 03.43	257	59	-19
					G179-55	gio 02.54	248	56	gio 02.55	248	56	gio 02.55	248	56	29
					DE CVn	gio 02.58	243	81	gio 02.58	243	81	gio 02.59	243	81	229
					NSVS 07826147 II	gio 03.02	263	58	gio 03.13	264	60	gio 03.25	266	62	29
					HAT-225-0003429	gio 03.49	102	41	gio 04.23	106	35	gio 04.56	111	29	470
					HW Vir	gio 03.53	16	38	gio 04.03	19	37	gio 04.13	22	37	229
					V470 Cam	gio 04.37	154	32	gio 04.47	154	31	gio 04.58	155	30	300
					NN Ser	gio 04.43	320	55	gio 04.43	321	55	gio 04.43	321	55	-80
					NSVS 07826147	gio 04.58	287	79	gio 05.10	294	81	gio 05.21	303	83	29
					NY Vir	gio 05.02	23	43	gio 05.11	26	43	gio 05.20	29	42	149
gio 31-01-13	17.19	17.52	04.37	05.10	V608 Aur II	gio 16.34	251	44	gio 17.34	257	55	gio 18.35	264	66	379
					V912 Per	gio 17.58	352	88	gio 17.58	354	88	gio 17.59	355	88	166
					HAT-136-0003262 II	gio 18.04	245	43	gio 18.55	250	52	gio 19.46	254	61	435
					HS 2231+2441	gio 18.05	103	24	gio 18.06	103	24	gio 18.06	103	24	-328
					V470 Cam	gio 18.23	209	55	gio 18.34	209	56	gio 18.44	208	57	298
					V471 Tau	gio 18.24	11	65	gio 18.24	11	65	gio 18.25	11	65	145
					NSVS 02502726 II	gio 18.27	230	45	gio 19.27	232	54	gio 20.27	230	62	391
					HAT-225-0003429 II	gio 19.10	256	38	gio 19.44	261	44	gio 20.18	266	50	470
					BS UMa	gio 19.20	233	24	gio 20.03	238	30	gio 20.45	243	37	375
					NSVS 06507557 II	gio 19.43	86	44	gio 20.28	94	36	gio 21.13	101	27	-48
					PTFEB11.441	gio 19.55	116	37	gio 19.55	116	37	gio 19.55	116	37	-95
					YY Gem	gio 19.57	285	65	gio 19.57	285	66	gio 19.57	285	66	449
					GSC 2499 246	gio 20.04	261	50	gio 20.54	268	59	gio 21.44	277	69	463
					NLTT11748	gio 20.04	57	54	gio 20.04	57	54	gio 20.04	57	54	135
					BX Tri	gio 20.15	97	46	gio 21.06	104	37	gio 21.57	111	28	15
					V470 Cam	gio 20.41	190	64	gio 20.51	188	65	gio 21.02	185	65	298
					HAT-131-0026711	gio 20.52	122	74	gio 20.52	122	74	gio 20.53	122	74	285
					NLTT11748	gio 22.51	92	24	gio 22.51	93	24	gio 22.51	93	24	134
					V470 Cam	gio 22.58	161	62	gio 23.09	159	61	gio 23.20	157	61	297
					NSVS 01031772	gio 23.15	194	45	ven 00.01	193	47	ven 00.47	192	49	169
					GK Boo	gio 23.22	245	28	ven 00.28	253	40	ven 01.34	261	52	120
					HW Vir	gio 23.29	303	20	gio 23.40	306	22	gio 23.50	308	23	236
					BS Uma II	gio 23.32	258	66	ven 00.14	261	74	ven 00.57	262	82	375
					HAT-225-0003429	ven 00.17	47	78	ven 00.51	66	73	ven 01.25	77	67	470
					NSVS 07826147	ven 00.23	244	30	ven 00.34	246	32	ven 00.46	247	34	33
					NY Vir	ven 00.26	299	26	ven 00.35	301	27	ven 00.43	303	29	156
					GJ 3236	ven 00.28	68	77	ven 01.18	84	68	ven 02.09	93	59	463
					HAT-192-0001841 II	ven 01.02	156	33	ven 01.30	158	31	ven 01.58	160	29	163
					NSVS 02502726	ven 01.04	241	32	ven 01.30	244	37	ven 01.57	247	41	-15
					V470 Cam	ven 01.10	131	65	ven 02.10	128	56	ven 03.10	130	48	390
					HAT-136-0003262	ven 01.16	149	50	ven 01.27	148	49	ven 01.38	148	48	297
					HW Vir	ven 01.52	110	53	ven 02.43	114	44	ven 03.34	119	35	435
					NSVS 07826147 II	ven 02.17	347	38	ven 02.28	350	39	ven 02.38	354	39	237
					NN Ser	ven 02.20	258	51	ven 02.31	259	53	ven 02.42	261	55	34
					NY Vir	ven 02.34	286	36	ven 02.34	286	36	ven 02.34	286	36	-74
					NY Vir	ven 02.51	339	44	ven 03.00	342	44	ven 03.09	345	45	157

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					V470 Cam	ven 03.34	151	37	ven 03.45	151	36	ven 03.55	152	35	297
					BS UMa	ven 03.43	102	67	ven 04.26	105	59	ven 05.09	109	52	376
					NSVS 07826147	ven 04.16	275	72	ven 04.27	278	74	ven 04.39	281	76	34
ven 01-02-13	17.20	17.53	04.37	05.09	NSVS 01031772	ven 16.55	183	32	ven 17.41	186	32	ven 18.27	188	33	169
					V470 Cam	ven 17.20	212	49	ven 17.31	211	50	ven 17.42	211	51	295
					HAT-136-0003262	ven 17.27	242	37	ven 18.18	247	46	ven 19.09	252	55	433
					HS 2231+2441	ven 17.59	102	25	ven 17.59	102	25	ven 17.59	102	25	-332
					GSC 2499 246	ven 18.05	246	30	ven 18.55	252	38	ven 19.46	259	47	463
					NLTT11748	ven 18.20	14	65	ven 18.21	14	65	ven 18.21	14	65	128
					BX Tri	ven 19.22	90	56	ven 20.13	98	46	ven 21.04	104	37	7
					V471 Tau	ven 19.25	42	59	ven 19.25	42	59	ven 19.26	42	59	136
					GJ 3236	ven 19.32	162	60	ven 20.00	159	58	ven 20.29	156	56	159
					V470 Cam	ven 19.38	201	61	ven 19.49	199	62	ven 20.00	197	63	294
					V608 Aur	ven 20.03	68	85	ven 21.03	90	74	ven 22.03	98	63	305
					NSVS 06507557 II	ven 20.27	94	35	ven 21.12	101	27	ven 21.57	108	19	-57
					BS UMa	ven 20.30	242	35	ven 21.13	246	43	ven 21.55	250	50	378
					HAT-225-0003429	ven 20.45	271	56	ven 21.19	277	63	ven 21.53	286	69	470
					NLTT11748	ven 21.07	74	43	ven 21.08	74	43	ven 21.08	74	43	127
					NSVS 02502726 II	ven 21.19	224	70	ven 22.19	202	76	ven 23.19	164	77	389
					V912 Per	ven 21.42	107	48	ven 21.42	107	48	ven 21.42	107	48	157
					V470 Cam	ven 21.56	172	65	ven 22.06	170	64	ven 22.17	168	64	294
					GK Boo	ven 22.18	237	19	ven 23.24	246	29	sab 00.30	254	41	125
					GSC 2499 246	ven 22.29	292	77	ven 23.19	346	84	sab 00.10	59	80	463
					DE CVn	ven 22.40	239	38	ven 22.40	239	38	ven 22.40	239	38	236
					HAT-192-0001841 II	ven 23.17	229	17	ven 23.44	232	20	sab 00.11	236	24	-12
					V449 Per	ven 23.22	120	20	ven 23.23	120	20	ven 23.23	120	20	73
					NSVS 07826147	ven 23.41	239	24	ven 23.52	241	26	sab 00.04	242	28	38
					V470 Cam	sab 00.13	151	56	sab 00.24	151	55	sab 00.35	150	54	294
					NY Vir	sab 00.41	303	29	sab 00.49	305	30	sab 00.58	307	31	164
					BS Uma II	sab 00.42	262	80	sab 01.24	254	88	sab 02.07	98	84	378
					HW Vir	sab 00.42	321	31	sab 00.52	324	32	sab 01.02	326	33	244
					HAT-136-0003262 II	sab 01.15	107	58	sab 02.06	111	49	sab 02.57	116	41	432
					YY Gem II	sab 01.16	94	47	sab 01.16	94	47	sab 01.16	94	47	445
					NSVS 07826147 II	sab 01.37	253	44	sab 01.49	255	46	sab 02.00	256	48	38
					NSVS 01031772	sab 01.46	189	51	sab 02.31	186	52	sab 03.17	183	52	169
					HAT-225-0003429 II	sab 01.52	84	61	sab 02.26	91	55	sab 03.00	96	48	470
					V470 Cam	sab 02.31	149	43	sab 02.42	149	42	sab 02.53	149	41	293
					GSC 2499 246	sab 02.53	99	50	sab 03.44	106	41	sab 04.34	112	32	463
					HAT-192-0001841	sab 03.00	254	53	sab 03.26	256	58	sab 03.53	259	62	-11
					NY Vir	sab 03.06	345	45	sab 03.15	348	45	sab 03.23	351	46	165
					HW Vir	sab 03.30	12	39	sab 03.40	15	38	sab 03.51	18	38	245
					NN Ser	sab 03.32	301	46	sab 03.33	301	46	sab 03.33	301	46	-66
					NSVS 07826147	sab 03.34	268	65	sab 03.45	270	67	sab 03.57	272	69	39
					NSVS 02502726	sab 04.02	132	40	sab 05.02	137	32	sab 06.02	142	25	388
					V470 Cam	sab 04.49	155	30	sab 05.00	156	30	sab 05.10	157	29	293
sab 02-02-13	17.22	17.54	04.36	05.08	HAT-136-0003262 II	sab 16.50	239	32	sab 17.41	244	40	sab 18.32	249	49	431
					HAT-225-0003429	sab 17.13	242	19	sab 17.47	246	25	sab 18.21	251	31	470
					NSVS 02502726	sab 17.28	227	38	sab 18.28	230	46	sab 19.28	232	55	387
					HS 2231+2441	sab 17.52	102	25	sab 17.52	102	25	sab 17.52	102	25	-337
					BX Tri	sab 18.29	80	65	sab 19.20	90	55	sab 20.11	98	46	0
					V470 Cam	sab 18.35	208	57	sab 18.46	207	58	sab 18.57	206	59	291
					NLTT11748	sab 19.24	46	59	sab 19.24	46	59	sab 19.24	46	59	119
					NSVS 01031772	sab 19.26	190	35	sab 20.12	192	37	sab 20.58	193	39	168
					V471 Tau	sab 20.26	63	50	sab 20.26	64	50	sab 20.27	64	50	127
					GSC 2499 246	sab 20.30	265	56	sab 21.20	273	66	sab 22.11	287	75	463
					HAT-131-0026711	sab 20.40	123	75	sab 20.40	123	75	sab 20.41	123	75	273
					YY Gem II	sab 20.48	310	75	sab 20.49	310	75	sab 20.49	310	75	443
					V470 Cam	sab 20.53	186	65	sab 21.04	183	65	sab 21.15	181	65	291
					BS UMa	sab 21.40	249	48	sab 22.22	253	55	sab 23.05	256	63	380
					V449 Per	sab 22.05	110	33	sab 22.05	110	33	sab 22.06	110	33	65
					NLTT11748	sab 22.11	87	30	sab 22.11	87	30	sab 22.12	87	30	118
					HAT-225-0003429 II	sab 22.20	297	74	sab 22.54	320	79	sab 23.28	1	81	470
					V470 Cam	sab 23.11	158	61	sab 23.22	156	60	sab 23.32	155	59	290
					V608 Aur II	sab 23.31	102	57	dom 00.32	108	46	dom 01.32	115	36	367
					NSVS 02502726 II	dom 00.11	140	72	dom 01.11	130	64	dom 02.11	128	55	387
					HAT-136-0003262	dom 00.37	104	64	dom 01.28	108	55	dom 02.19	113	46	430
					DE CVn	dom 00.53	249	61	dom 00.53	249	61	dom 00.53	249	61	240
					GSC 2499 246	dom 00.54	80	71	dom 01.45	90	62	dom 02.35	98	53	463
					NSVS 07826147 II	dom 00.55	249	37	dom 01.06	250	39	dom 01.18	252	41	43

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					NY Vir	dom 00.55	308	32	dom 01.04	310	33	dom 01.13	312	34	173
					HAT-192-0001841	dom 01.13	243	35	dom 01.40	246	40	dom 02.07	249	44	-7
					NN Ser	dom 01.24	274	24	dom 01.24	274	24	dom 01.24	274	24	-60
					V470 Cam	dom 01.28	148	48	dom 01.39	148	47	dom 01.50	148	46	290
					BS Uma II	dom 01.51	101	86	dom 02.34	98	78	dom 03.17	101	71	381
					HW Vir	dom 01.55	343	38	dom 02.05	346	38	dom 02.15	349	39	252
					NSVS 07826147	dom 02.51	263	58	dom 03.03	264	60	dom 03.14	266	62	44
					NY Vir	dom 03.21	352	46	dom 03.29	355	46	dom 03.38	358	46	173
					HAT-225-0003429	dom 03.28	100	43	dom 04.01	105	36	dom 04.35	109	30	470
					V470 Cam	dom 03.46	152	35	dom 03.57	152	34	dom 04.08	153	33	290
					NSVS 01031772	dom 04.16	178	53	dom 05.02	175	52	dom 05.48	172	51	168
					NN Ser	dom 04.31	320	55	dom 04.31	321	55	dom 04.31	321	55	-59
					HW Vir	dom 04.43	34	33	dom 04.53	37	32	dom 05.03	39	31	252
					NSVS 07826147 II	dom 04.48	288	79	dom 04.59	294	81	dom 05.11	304	83	44
dom 03-02-13	17.23	17.55	04.35	05.07	V470 Cam	dom 17.33	211	51	dom 17.43	211	52	dom 17.54	210	53	288
					BX Tri	dom 17.36	64	73	dom 18.27	80	64	dom 19.18	90	55	-8
					NLTT11748	dom 17.40	355	66	dom 17.41	355	66	dom 17.41	356	66	111
					HS 2231+2441	dom 17.45	101	26	dom 17.45	101	26	dom 17.46	101	26	-341
					V608 Aur II	dom 17.50	260	60	dom 18.51	268	71	dom 19.51	282	82	363
					HAT-133-0002525	dom 18.02	253	61	dom 19.11	256	74	dom 20.20	241	86	362
					GSC 2499 246	dom 18.31	250	35	dom 19.22	257	44	dom 20.12	263	54	462
					BS Uma II	dom 18.38	230	19	dom 19.21	235	26	dom 20.03	240	32	382
					HAT-225-0003429 II	dom 18.49	255	36	dom 19.23	260	42	dom 19.57	264	49	470
					HAT-205-0007777	dom 18.58	123	23	dom 18.59	123	23	dom 18.59	123	23	-251
					V470 Cam	dom 19.50	198	63	dom 20.01	196	63	dom 20.12	194	64	287
					NSVS 02502726	dom 20.20	230	63	dom 21.20	222	71	dom 22.20	197	77	385
					NLTT11748	dom 20.27	67	48	dom 20.28	67	48	dom 20.28	67	48	110
					V449 Per	dom 20.48	101	46	dom 20.48	101	46	dom 20.48	101	46	58
					V471 Tau	dom 21.27	78	38	dom 21.27	78	38	dom 21.28	78	38	119
					NSVS 01031772	dom 21.56	194	41	dom 22.42	194	44	dom 23.28	194	46	167
					V470 Cam	dom 22.08	168	64	dom 22.19	166	64	dom 22.30	164	63	287
					BS UMa	dom 22.50	255	61	dom 23.32	259	69	lun 00.15	261	77	383
					GSC 2499 246	dom 22.55	320	83	dom 23.46	45	82	lun 00.36	76	74	462
					HAT-192-0001841	dom 23.27	231	19	dom 23.54	234	23	lun 00.20	238	27	-3
					HAT-225-0003429	dom 23.56	39	79	lun 00.30	62	74	lun 01.04	75	69	470
					HAT-136-0003262 II	lun 00.00	102	70	lun 00.51	106	61	lun 01.42	110	52	427
					NSVS 07826147 II	lun 00.13	244	30	lun 00.24	246	32	lun 00.35	247	34	48
					HW Vir	lun 00.19	317	29	lun 00.30	320	30	lun 00.40	322	32	259
					V470 Cam	lun 00.26	150	54	lun 00.37	150	53	lun 00.47	149	52	287
					NY Vir	lun 01.10	312	34	lun 01.19	314	35	lun 01.27	317	37	181
					YY Gem	lun 02.07	103	36	lun 02.07	103	36	lun 02.08	103	36	438
					NSVS 07826147	lun 02.09	258	51	lun 02.21	259	53	lun 02.32	261	55	48
					NN Ser	lun 02.22	286	36	lun 02.22	286	36	lun 02.23	286	36	-52
					V470 Cam	lun 02.43	149	41	lun 02.54	149	40	lun 03.05	150	39	286
					BS Uma II	lun 03.01	100	73	lun 03.44	103	65	lun 04.27	106	57	383
					NSVS 02502726 II	lun 03.03	130	47	lun 04.03	133	39	lun 05.03	138	31	385
					GJ 3236	lun 03.04	166	25	lun 03.32	168	24	lun 04.01	171	23	147
					DE CVn	lun 03.06	227	85	lun 03.06	227	85	lun 03.07	226	85	244
					HW Vir	lun 03.07	7	39	lun 03.18	10	39	lun 03.28	13	38	259
					HAT-192-0001841 II	lun 03.09	255	56	lun 03.36	258	61	lun 04.03	261	66	-2
					GSC 2499 246	lun 03.20	104	44	lun 04.10	110	35	lun 05.00	116	26	462
					NY Vir	lun 03.35	358	46	lun 03.44	1	46	lun 03.53	4	46	182
					NSVS 07826147 II	lun 04.06	276	72	lun 04.17	278	75	lun 04.28	282	77	49
lun 04-02-13	17.24	17.57	04.34	05.06	GSC 1941 1746 II	lun 12.19	207	-19	lun 17.46	264	31	lun 23.13	34	70	477
					NSVS 02502726 II	lun 16.29	223	31	lun 17.29	227	39	lun 18.29	230	47	383
					BX Tri	lun 16.43	29	80	lun 17.34	65	73	lun 18.25	81	64	-16
					HS 2231+2441	lun 17.38	101	26	lun 17.38	101	26	lun 17.39	101	26	-345
					PTFEB11.441	lun 18.37	110	48	lun 18.37	110	48	lun 18.37	110	48	-122
					NLTT11748	lun 18.44	32	63	lun 18.44	32	63	lun 18.45	32	63	102
					V470 Cam	lun 18.48	206	58	lun 18.58	205	59	lun 19.09	203	60	284
					V912 Per	lun 19.00	88	75	lun 19.01	89	75	lun 19.01	89	75	135
					V449 Per	lun 19.30	90	60	lun 19.30	90	59	lun 19.31	90	59	50
					BS Uma II	lun 19.48	238	31	lun 20.31	243	37	lun 21.13	247	45	384
					HAT-225-0003429	lun 20.24	269	55	lun 20.58	275	61	lun 21.32	283	67	469
					HAT-131-0026711	lun 20.28	124	76	lun 20.29	123	76	lun 20.29	123	76	260
					DE CVn	lun 20.35	227	21	lun 20.35	227	21	lun 20.35	227	21	247
					HAT-145-0001586	lun 20.39	225	20	lun 21.45	232	29	lun 22.51	239	39	222
					GSC 2499 246	lun 20.56	271	63	lun 21.47	281	72	lun 22.37	305	81	461
					V470 Cam	lun 21.05	181	65	lun 21.16	178	65	lun 21.27	176	65	283

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					V608 Aur	lun 21.19	94	69	lun 22.19	101	58	lun 23.19	108	47	285
					BX Tri	lun 21.20	108	32	lun 22.11	115	23	lun 23.02	122	15	-18
					NLTT11748	lun 21.31	81	36	lun 21.31	81	36	lun 21.32	81	36	101
					GJ 3236	lun 21.35	152	49	lun 22.03	151	47	lun 22.31	151	44	143
					YY Gem	lun 21.40	8	80	lun 21.40	8	80	lun 21.40	8	80	435
					V471 Tau	lun 22.28	90	26	lun 22.28	90	26	lun 22.29	90	26	110
					NSVS 02502726	lun 23.12	161	77	mar 00.12	138	71	mar 01.12	130	63	383
					V470 Cam	lun 23.23	155	59	lun 23.34	154	58	lun 23.45	153	57	283
					HAT-136-0003262	lun 23.23	101	76	mar 00.14	103	67	mar 01.05	107	58	425
					NSVS 07826147 II	lun 23.30	240	24	lun 23.42	241	26	lun 23.53	242	28	53
					BS UMa	mar 00.00	261	74	mar 00.42	262	82	mar 01.25	162	89	385
					NSVS 01031772	mar 00.27	192	48	mar 01.12	190	50	mar 01.58	187	51	166
					GSC 2499 246	mar 01.21	87	65	mar 02.11	95	56	mar 03.01	102	46	461
					HAT-192-0001841 II	mar 01.23	245	38	mar 01.50	248	43	mar 02.16	251	47	2
					NY Vir	mar 01.25	317	37	mar 01.33	319	38	mar 01.42	322	39	189
					NSVS 07826147	mar 01.27	254	44	mar 01.38	255	46	mar 01.50	256	48	53
					HAT-225-0003429 II	mar 01.31	83	63	mar 02.05	89	57	mar 02.39	94	50	469
					HW Vir	mar 01.32	338	37	mar 01.42	341	37	mar 01.52	344	38	266
					V470 Cam	mar 01.41	148	46	mar 01.52	148	45	mar 02.02	148	44	283
					NN Ser	mar 03.21	301	46	mar 03.21	301	46	mar 03.21	301	46	-44
					NSVS 07826147 II	mar 03.23	269	65	mar 03.35	270	67	mar 03.46	272	70	54
					NY Vir	mar 03.50	5	46	mar 03.59	8	46	mar 04.07	11	45	190
					V470 Cam	mar 03.59	153	34	mar 04.09	153	33	mar 04.20	154	32	282
					GU Boo	mar 04.10	295	74	mar 04.56	329	81	mar 05.42	31	81	65
					BS Uma II	mar 04.11	106	59	mar 04.54	109	52	mar 05.36	113	44	385
					HW Vir	mar 04.20	30	35	mar 04.30	33	34	mar 04.41	35	33	267
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mar 05-02-13	17.25	17.58	04.33	05.05	GSC 1941 1746	mar 15.30	243	7	mar 20.57	309	65	mer 02.24	91	37	475
					HAT-225-0003429	mar 16.52	240	18	mar 17.26	245	23	mar 18.00	250	29	469
					NSVS 06507557	mar 17.10	49	67	mar 17.55	66	60	mar 18.40	77	52	-89
					HS 2231+2441	mar 17.31	100	27	mar 17.32	100	27	mar 17.32	100	27	-350
					V470 Cam	mar 17.45	210	53	mar 17.56	210	54	mar 18.07	209	55	280
					RX J2130.6+4710	mar 17.52	132	26	mar 17.53	132	26	mar 17.53	132	26	-224
					NSVS 01031772	mar 18.07	188	33	mar 18.53	190	34	mar 19.39	191	36	165
					V449 Per	mar 18.13	73	73	mar 18.13	73	73	mar 18.13	73	73	42
					GSC 2499 246	mar 18.58	255	42	mar 19.48	261	51	mar 20.38	268	60	461
					NSVS 02502726 II	mar 19.21	232	56	mar 20.21	229	64	mar 21.22	219	72	381
					NLTT11748	mar 19.47	58	54	mar 19.48	58	54	mar 19.48	58	54	93
					V470 Cam	mar 20.03	194	64	mar 20.13	192	64	mar 20.24	189	64	280
					PTFEB11.441	mar 20.26	122	29	mar 20.27	122	29	mar 20.27	122	29	-130
					BX Tri	mar 20.27	102	41	mar 21.18	108	31	mar 22.09	115	23	-26
					BS Uma II	mar 20.58	246	43	mar 21.40	250	50	mar 22.23	254	58	387
					HAT-225-0003429 II	mar 21.59	293	73	mar 22.33	312	78	mar 23.07	348	81	469
					V470 Cam	mar 22.20	164	63	mar 22.31	162	62	mar 22.42	160	62	279
					NLTT11748	mar 22.35	93	24	mar 22.35	93	24	mar 22.35	93	24	92
					V912 Per	mar 22.44	116	34	mar 22.44	116	34	mar 22.44	116	34	126
					HAT-136-0003262 II	mar 22.46	101	83	mar 23.37	101	73	mer 00.28	104	64	422
					DE CVn	mar 22.48	241	42	mar 22.48	241	42	mar 22.48	241	42	251
					GSC 2499 246	mar 23.22	21	84	mer 00.12	69	77	mer 01.03	84	68	460
					HAT-192-0001841 II	mar 23.37	233	22	mer 00.04	237	26	mer 00.30	240	30	6
					HW Vir	mar 23.57	314	27	mer 00.07	316	29	mer 00.17	319	30	273
					V470 Cam	mer 00.38	149	52	mer 00.49	149	51	mer 01.00	149	50	279
					NSVS 07826147	mer 00.44	249	37	mer 00.56	250	39	mer 01.07	252	41	58
					V608 Aur II	mer 00.47	111	41	mer 01.48	118	31	mer 02.48	125	21	351
					BS UMa	mer 01.09	252	88	mer 01.52	98	84	mer 02.35	99	76	387
					NN Ser	mer 01.12	274	24	mer 01.12	274	24	mer 01.12	274	24	-38
					NY Vir	mer 01.39	322	39	mer 01.48	325	40	mer 01.56	327	41	197
					NSVS 02502726	mer 02.04	128	54	mer 03.04	130	46	mer 04.05	134	37	380
					NSVS 07826147 II	mer 02.41	263	58	mer 02.52	265	60	mer 03.04	266	62	58
					HW Vir	mer 02.45	2	39	mer 02.55	5	39	mer 03.05	9	39	274
					V470 Cam	mer 02.56	150	39	mer 03.07	150	38	mer 03.17	151	37	279
					NSVS 01031772	mer 02.57	183	52	mer 03.43	180	53	mer 04.29	176	52	165
					YY Gem II	mer 02.59	111	26	mer 02.59	111	26	mer 02.59	111	26	431
					HAT-225-0003429	mer 03.06	99	44	mer 03.40	104	38	mer 04.14	108	32	468
					HAT-192-0001841	mer 03.19	257	59	mer 03.46	260	64	mer 04.12	263	69	6
					GU Boo	mer 03.38	285	69	mer 04.24	304	77	mer 05.10	352	82	70
					GSC 2499 246	mer 03.46	108	38	mer 04.36	114	29	mer 05.27	121	21	460
					OT Lyr	mer 03.56	255	29	mer 03.57	255	29	mer 03.57	255	29	-283
					NY Vir	mer 04.05	11	45	mer 04.13	14	45	mer 04.22	17	45	198
					NN Ser	mer 04.19	320	55	mer 04.19	321	55	mer 04.20	321	55	-37
					NSVS 07826147	mer 04.37	289	80	mer 04.49	295	82	mer 05.00	305	83	59

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
mer 06-02-13	17.26	17.59	04.32	05.04	GSC 2499 246	mer 16.59	240	22	mer 17.49	247	30	mer 18.39	253	39	460
					NSVS 06507557	mer 17.53	67	60	mer 18.38	78	52	mer 19.23	87	43	-98
					BS UMa	mer 17.56	226	15	mer 18.39	231	21	mer 19.21	236	28	388
					NLTT11748	mer 18.04	16	65	mer 18.04	16	65	mer 18.05	16	65	85
					HAT-225-0003429 II	mer 18.28	254	35	mer 19.02	258	41	mer 19.35	263	47	468
					GSC 1941 1746 II	mer 18.42	274	43	gio 00.09	62	61	gio 05.36	121	3	472
					V470 Cam	mer 19.00	203	60	mer 19.11	202	61	mer 19.22	200	62	276
					V608 Aur II	mer 19.07	273	76	mer 20.07	312	87	mer 21.07	81	81	347
					BX Tri	mer 19.34	95	50	mer 20.25	102	40	mer 21.16	109	31	-34
					HAT-131-0026711	mer 20.17	124	76	mer 20.17	124	76	mer 20.17	124	76	248
					NSVS 01031772	mer 20.37	193	39	mer 21.23	194	41	mer 22.09	194	43	164
					NLTT11748	mer 20.51	75	42	mer 20.51	75	42	mer 20.52	75	42	84
					V470 Cam	mer 21.18	176	65	mer 21.28	174	65	mer 21.39	171	65	276
					GSC 2499 246	mer 21.23	277	69	mer 22.13	295	78	mer 23.04	354	84	460
					BS Uma II	mer 22.08	253	56	mer 22.50	256	63	mer 23.33	260	71	389
					HAT-136-0003262	mer 22.09	131	88	mer 23.00	100	79	mer 23.51	102	70	419
					NSVS 02502726 II	mer 22.13	194	77	mer 23.13	156	76	gio 00.14	136	70	378
					YY Gem II	mer 22.31	58	73	mer 22.31	58	73	mer 22.32	58	73	428
					HAT-133-0002525	mer 22.34	105	67	mer 23.43	110	55	gio 00.52	116	43	346
					NY Vir	mer 23.28	292	20	mer 23.37	294	22	mer 23.46	296	23	204
					HAT-225-0003429	mer 23.35	29	80	gio 00.09	57	76	gio 00.42	72	70	468
					V470 Cam	mer 23.35	153	57	mer 23.46	152	57	mer 23.57	151	56	275
					NSVS 07826147	gio 00.02	245	31	gio 00.14	246	32	gio 00.25	247	34	63
					DE CVn	gio 01.01	250	65	gio 01.01	250	65	gio 01.01	250	65	255
					HW Vir	gio 01.09	334	36	gio 01.20	337	36	gio 01.30	340	37	281
					HAT-192-0001841	gio 01.33	247	41	gio 02.00	250	46	gio 02.26	252	50	10
					GSC 2499 246	gio 01.47	93	59	gio 02.37	100	49	gio 03.28	106	40	459
					V470 Cam	gio 01.53	148	44	gio 02.04	148	43	gio 02.15	149	42	275
					NY Vir	gio 01.54	328	41	gio 02.02	330	42	gio 02.11	333	43	205
					NSVS 07826147 II	gio 01.59	258	51	gio 02.10	260	53	gio 02.21	261	55	63
					NN Ser	gio 02.10	286	36	gio 02.11	286	36	gio 02.11	286	36	-30
					BS UMa	gio 02.19	98	78	gio 03.02	101	70	gio 03.45	104	63	389
					GU Boo	gio 03.05	278	64	gio 03.51	290	72	gio 04.37	317	80	76
					NSVS 07826147	gio 03.55	276	73	gio 04.07	279	75	gio 04.18	282	77	64
					HW Vir	gio 03.57	26	36	gio 04.08	29	35	gio 04.18	31	34	282
					V470 Cam	gio 04.11	154	32	gio 04.22	155	31	gio 04.32	155	30	275
					NY Vir	gio 04.19	18	44	gio 04.28	21	44	gio 04.37	24	43	206
gio 07-02-13	17.27	18.00	04.31	05.03	V470 Cam	gio 17.57	209	55	gio 18.08	208	56	gio 18.19	207	57	272
					YY Gem II	gio 18.04	268	50	gio 18.04	268	50	gio 18.04	268	50	424
					NSVS 02502726	gio 18.22	231	48	gio 19.22	232	57	gio 20.23	228	66	376
					NSVS 06507557	gio 18.37	78	51	gio 19.22	87	43	gio 20.07	95	35	-106
					BX Tri	gio 18.41	87	59	gio 19.32	95	49	gio 20.23	102	40	-42
					BS UMa	gio 19.06	235	26	gio 19.49	240	33	gio 20.31	244	40	390
					NLTT11748	gio 19.08	47	58	gio 19.08	47	58	gio 19.08	47	58	76
					GSC 2499 246	gio 19.24	259	48	gio 20.14	266	57	gio 21.05	274	66	458
					HAT-225-0003429	gio 20.03	268	53	gio 20.37	273	59	gio 21.11	281	65	467
					V470 Cam	gio 20.15	190	64	gio 20.26	187	65	gio 20.37	185	65	272
					HAT-136-0003262 II	gio 21.32	256	85	gio 22.23	105	85	gio 23.14	101	76	416
					GSC 1941 1746	gio 21.53	345	72	ven 03.20	101	25	ven 08.47	160	-21	470
					NLTT11748	gio 21.55	88	30	gio 21.55	88	30	gio 21.55	88	30	75
					V470 Cam	gio 22.33	160	62	gio 22.44	159	61	gio 22.54	157	60	272
					V608 Aur	gio 22.35	104	53	gio 23.35	111	42	ven 00.36	117	32	265
					NSVS 01031772	gio 23.08	194	45	gio 23.53	193	47	ven 00.39	191	49	163
					BS Uma II	gio 23.18	259	69	ven 00.00	261	77	ven 00.43	261	85	391
					NSVS 07826147	gio 23.20	240	24	gio 23.31	241	26	gio 23.43	243	28	68
					HW Vir	gio 23.34	310	25	gio 23.44	313	27	gio 23.54	315	28	287
					GJ 3236	gio 23.37	153	38	ven 00.05	155	35	ven 00.34	156	33	126
					NY Vir	gio 23.43	296	23	gio 23.52	298	25	ven 00.00	300	26	212
					HAT-192-0001841	gio 23.47	235	24	ven 00.13	239	28	ven 00.40	242	33	14
					GSC 2499 246	gio 23.48	61	79	ven 00.39	81	71	ven 01.29	91	61	458
					V470 Cam	ven 00.50	149	50	ven 01.01	148	49	ven 01.12	148	48	271
					HAT-145-0001586	ven 00.51	248	61	ven 01.57	248	73	ven 03.03	227	83	234
					NSVS 02502726 II	ven 01.05	130	62	ven 02.05	129	53	ven 03.06	131	44	375
					HAT-225-0003429 II	ven 01.10	80	65	ven 01.44	87	58	ven 02.18	93	52	467
					NSVS 07826147 II	ven 01.16	254	44	ven 01.28	255	46	ven 01.39	256	48	68
					NY Vir	ven 02.08	334	43	ven 02.17	336	43	ven 02.26	339	44	213
					HAT-196-0006238	ven 02.14	245	28	ven 02.14	245	28	ven 02.14	245	28	-162
					HW Vir	ven 02.22	357	39	ven 02.32	1	39	ven 02.42	4	39	288
					GU Boo	ven 02.32	272	59	ven 03.19	282	67	ven 04.05	298	75	81

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					V470 Cam	ven 03.08	151	37	ven 03.19	151	36	ven 03.30	152	35	271
					NN Ser	ven 03.09	301	46	ven 03.09	301	46	ven 03.09	301	46	-22
					NSVS 07826147	ven 03.13	269	66	ven 03.24	271	68	ven 03.36	273	70	68
					DE CVn	ven 03.14	177	86	ven 03.14	176	86	ven 03.14	175	86	258
					GK Boo	ven 03.22	289	77	ven 04.28	8	84	ven 05.34	74	75	158
					HAT-192-0001841 II	ven 03.29	259	62	ven 03.56	262	67	ven 04.22	264	72	15
					BS UMa	ven 03.29	103	65	ven 04.12	107	57	ven 04.54	110	50	391
					GSC 2499 246	ven 04.12	112	32	ven 05.03	119	23	ven 05.53	125	15	458
					NY Vir	ven 04.34	24	43	ven 04.43	27	43	ven 04.51	30	42	214
ven 08-02-13	17.29	18.01	04.30	05.02	NSVS 01031772	ven 16.48	184	32	ven 17.34	186	33	ven 18.20	189	34	162
					V608 Aur	ven 16.54	263	64	ven 17.55	272	75	ven 18.55	303	86	260
					GSC 2499 246	ven 17.25	245	27	ven 18.15	251	36	ven 19.06	257	45	457
					BX Tri	ven 17.48	76	68	ven 18.39	87	58	ven 19.30	95	49	-50
					GJ 3236	ven 18.08	171	62	ven 18.36	166	61	ven 19.04	162	60	122
					V470 Cam	ven 19.12	201	61	ven 19.23	199	62	ven 19.34	197	63	268
					NSVS 06507557	ven 19.20	87	43	ven 20.05	95	34	ven 20.50	102	26	-115
					V912 Per	ven 20.02	99	61	ven 20.03	99	61	ven 20.03	99	61	103
					HAT-131-0026711	ven 20.05	126	77	ven 20.05	125	77	ven 20.06	125	77	235
					NLTT11748	ven 20.11	68	48	ven 20.11	68	48	ven 20.12	68	48	67
					BS UMa	ven 20.16	243	38	ven 20.58	247	45	ven 21.41	251	52	392
					DE CVn	ven 20.43	230	25	ven 20.43	230	25	ven 20.43	230	25	261
					HAT-136-0003262	ven 20.55	260	79	ven 21.46	236	88	ven 22.37	101	82	413
					NSVS 02502726	ven 21.14	218	73	ven 22.15	188	77	ven 23.15	152	75	373
					V470 Cam	ven 21.30	172	65	ven 21.41	169	64	ven 21.52	167	64	268
					HAT-225-0003429 II	ven 21.38	290	71	ven 22.12	306	77	ven 22.46	336	81	466
					GSC 2499 246	ven 21.49	287	75	ven 22.40	325	83	ven 23.30	49	82	457
					YY Gem	ven 23.23	78	63	ven 23.23	78	63	ven 23.23	78	63	419
					V470 Cam	ven 23.48	151	56	ven 23.59	151	55	sab 00.09	150	54	267
					NY Vir	ven 23.58	300	26	sab 00.06	302	28	sab 00.15	304	29	220
					BS Uma II	sab 00.27	262	82	sab 01.10	147	89	sab 01.53	98	82	392
					NSVS 07826147 II	sab 00.34	249	37	sab 00.45	251	39	sab 00.57	252	41	73
					HW Vir	sab 00.47	330	34	sab 00.57	332	35	sab 01.07	335	36	295
					NN Ser	sab 01.00	274	24	sab 01.00	274	24	sab 01.01	274	24	-16
					NSVS 01031772	sab 01.38	188	51	sab 02.24	185	52	sab 03.10	181	53	162
					HAT-192-0001841 II	sab 01.43	249	44	sab 02.09	251	49	sab 02.36	254	53	19
					GU Boo	sab 02.00	267	53	sab 02.46	275	62	sab 03.32	287	70	86
					V470 Cam	sab 02.05	149	42	sab 02.16	149	41	sab 02.27	149	40	267
					GSC 2499 246	sab 02.13	98	52	sab 03.04	104	43	sab 03.54	111	34	457
					GK Boo	sab 02.18	273	66	sab 03.24	292	78	sab 04.30	20	84	162
					NY Vir	sab 02.23	340	44	sab 02.32	343	45	sab 02.40	346	45	221
					NSVS 07826147	sab 02.31	263	58	sab 02.42	265	60	sab 02.53	266	63	73
					HAT-225-0003429	sab 02.45	98	46	sab 03.19	102	40	sab 03.53	107	34	466
					HW Vir	sab 03.35	21	37	sab 03.45	24	36	sab 03.55	27	35	296
					NSVS 02502726 II	sab 03.57	134	37	sab 04.58	139	29	sab 05.58	145	22	372
					NN Ser	sab 04.07	320	55	sab 04.08	321	55	sab 04.08	321	55	-15
					V470 Cam	sab 04.23	155	30	sab 04.34	156	29	sab 04.45	157	29	267
					NSVS 07826147 II	sab 04.27	289	80	sab 04.38	296	82	sab 04.50	307	84	73
					NY Vir	sab 04.49	30	42	sab 04.57	33	41	sab 05.06	35	40	221
sab 09-02-13	17.30	18.02	04.29	05.01	BX Tri	sab 16.55	56	76	sab 17.46	76	67	sab 18.37	87	58	-58
					NSVS 02502726 II	sab 17.23	228	41	sab 18.24	231	49	sab 19.24	231	58	371
					HAT-225-0003429 II	sab 18.06	253	33	sab 18.40	257	39	sab 19.14	262	45	465
					V470 Cam	sab 18.10	208	57	sab 18.20	207	58	sab 18.31	205	59	264
					NLTT11748	sab 18.28	34	62	sab 18.28	34	62	sab 18.28	34	62	59
					YY Gem	sab 18.55	279	61	sab 18.55	279	61	sab 18.56	279	61	416
					PTFEB11.441	sab 19.08	115	39	sab 19.09	115	39	sab 19.09	115	39	-157
					NSVS 01031772	sab 19.18	191	36	sab 20.04	193	38	sab 20.50	194	40	161
					GSC 2499 246	sab 19.50	263	54	sab 20.41	271	63	sab 21.31	283	73	456
					NSVS 06507557	sab 20.03	95	34	sab 20.48	102	25	sab 21.33	109	17	-123
					HAT-136-0003262 II	sab 20.18	259	73	sab 21.09	259	82	sab 22.00	122	88	409
					V608 Aur II	sab 20.23	57	86	sab 21.23	88	75	sab 22.23	97	64	329
					V470 Cam	sab 20.27	185	65	sab 20.38	183	65	sab 20.49	180	65	264
					NLTT11748	sab 21.15	82	36	sab 21.15	82	36	sab 21.15	82	36	58
					BS UMa	sab 21.26	250	50	sab 22.08	254	58	sab 22.51	257	65	394
					CU Cnc	sab 21.49	347	67	sab 22.49	23	66	sab 23.49	50	59	473
					V470 Cam	sab 22.45	157	61	sab 22.56	156	60	sab 23.07	155	59	264
					DE CVn	sab 22.56	243	46	sab 22.56	243	46	sab 22.56	243	46	264
					HW Vir	sab 23.11	307	23	sab 23.21	309	25	sab 23.32	312	26	301
					HAT-225-0003429	sab 23.14	18	81	sab 23.47	51	77	dom 00.21	69	72	465
					V912 Per	sab 23.46	125	22	sab 23.46	125	22	sab 23.46	125	22	94

Day	Sun	Sun	Sun	Sun	Star Name	Eclipse			Time of			Eclipse			Helio Corr
	-12°	-18°	-18°	-12°		starts	Azi	Alt	minimum	Azi	Alt	ends	Azi	Alt	
					NSVS 07826147 II	sab 23.52	245	31	dom 00.03	246	33	dom 00.15	247	35	77
					HAT-192-0001841 II	sab 23.56	238	27	dom 00.23	241	31	dom 00.50	244	36	23
					NSVS 02502726	dom 00.06	135	69	dom 01.07	129	61	dom 02.07	129	52	370
					NY Vir	dom 00.12	304	29	dom 00.21	306	31	dom 00.29	308	32	228
					GSC 2499 246	dom 00.15	76	74	dom 01.05	88	64	dom 01.55	96	55	455
					V470 Cam	dom 01.03	148	48	dom 01.14	148	47	dom 01.24	148	46	263
					GK Boo	dom 01.14	263	55	dom 02.20	274	67	dom 03.26	295	79	167
					GU Boo	dom 01.27	263	48	dom 02.14	270	57	dom 03.00	279	65	92
					BS Uma II	dom 01.37	98	84	dom 02.20	99	76	dom 03.03	102	68	394
					NSVS 07826147	dom 01.48	258	51	dom 02.00	260	53	dom 02.11	261	56	78
					NN Ser	dom 01.59	286	36	dom 01.59	286	36	dom 01.59	286	36	-8
					HW Vir	dom 01.59	353	39	dom 02.10	356	39	dom 02.20	359	39	302
					NY Vir	dom 02.38	346	45	dom 02.46	349	45	dom 02.55	352	46	228
					V470 Cam	dom 03.21	152	35	dom 03.31	152	34	dom 03.42	153	33	263
					HAT-192-0001841	dom 03.39	261	66	dom 04.05	263	70	dom 04.32	266	75	23
					NSVS 07826147 II	dom 03.45	276	73	dom 03.56	279	75	dom 04.08	283	77	78
					NSVS 01031772	dom 04.08	177	52	dom 04.54	173	52	dom 05.40	171	50	160
					HAT-225-0003429 II	dom 04.21	111	28	dom 04.55	115	22	dom 05.28	120	17	464
					HW Vir	dom 04.47	42	29	dom 04.58	45	28	dom 05.08	47	27	303
dom 10-02-13	17.31	18.03	04.27	05.00	GSC 2499 246	dom 17.51	249	33	dom 18.42	255	42	dom 19.32	262	51	454
					BS Uma II	dom 18.24	231	21	dom 19.07	236	28	dom 19.49	241	35	395
					V470 Cam	dom 19.25	197	63	dom 19.35	195	63	dom 19.46	193	64	260
					NLTT11748	dom 19.31	59	53	dom 19.31	59	53	dom 19.32	59	53	50
					HAT-136-0003262	dom 19.41	257	67	dom 20.32	259	76	dom 21.23	255	85	406
					HAT-225-0003429	dom 19.42	266	51	dom 20.16	272	57	dom 20.50	278	64	464
					HAT-131-0026711	dom 19.53	127	77	dom 19.54	127	77	dom 19.54	127	77	221
					NSVS 02502726 II	dom 20.15	228	66	dom 21.16	215	74	dom 22.16	182	78	368
					BX Tri	dom 20.39	106	35	dom 21.30	113	26	dom 22.21	120	17	-67
					PTFEB11.441	dom 20.58	128	21	dom 20.58	128	21	dom 20.58	128	21	-164
					V470 Cam	dom 21.42	167	64	dom 21.53	165	63	dom 22.04	163	63	260
					NSVS 01031772	dom 21.49	194	42	dom 22.34	194	45	dom 23.20	193	47	159
					GSC 2499 246	dom 22.16	307	81	dom 23.06	28	84	dom 23.56	71	76	454
					NLTT11748	dom 22.18	94	23	dom 22.19	94	23	dom 22.19	94	23	49
					BS UMa	dom 22.36	256	63	dom 23.18	260	71	lun 00.01	262	79	395
					NSVS 07826147 II	dom 23.09	240	24	dom 23.21	241	26	dom 23.32	243	28	82
					V608 Aur	dom 23.51	114	37	lun 00.52	121	27	lun 01.52	128	18	243
					V470 Cam	lun 00.00	150	54	lun 00.11	150	53	lun 00.22	149	52	259
					GK Boo	lun 00.10	256	44	lun 01.16	264	56	lun 02.22	275	68	172
					YY Gem II	lun 00.14	90	52	lun 00.14	90	52	lun 00.15	90	52	410
					HW Vir	lun 00.24	326	33	lun 00.34	328	34	lun 00.44	331	35	308
					NY Vir	lun 00.27	308	32	lun 00.35	311	33	lun 00.44	313	35	235
					HAT-225-0003429 II	lun 00.49	78	66	lun 01.23	86	60	lun 01.57	92	54	463
					GU Boo	lun 00.55	259	43	lun 01.41	266	51	lun 02.27	273	60	97
					NSVS 07826147	lun 01.06	254	44	lun 01.17	255	46	lun 01.29	257	48	82
					DE CVn	lun 01.09	250	69	lun 01.09	250	70	lun 01.09	250	70	268
					GJ 3236	lun 01.40	161	28	lun 02.08	163	26	lun 02.36	166	25	110
					HAT-192-0001841	lun 01.52	251	47	lun 02.19	253	52	lun 02.46	256	57	27
					V470 Cam	lun 02.18	149	41	lun 02.29	150	40	lun 02.39	150	39	259
					GSC 2499 246	lun 02.40	102	46	lun 03.30	109	37	lun 04.21	115	28	454
					BS Uma II	lun 02.47	101	70	lun 03.30	104	62	lun 04.12	108	55	395
					NY Vir	lun 02.52	353	46	lun 03.01	356	46	lun 03.10	359	46	236
					NN Ser	lun 02.57	301	46	lun 02.57	301	46	lun 02.58	301	47	0
					NSVS 02502726	lun 02.58	131	44	lun 03.59	135	36	lun 04.59	140	28	367
					NSVS 07826147 II	lun 03.02	269	66	lun 03.14	271	68	lun 03.25	273	70	83
					HW Vir	lun 03.12	17	38	lun 03.22	20	37	lun 03.32	23	37	309
					HAT-136-0003262 II	lun 03.28	123	30	lun 04.19	129	22	lun 05.10	135	15	405
					V470 Cam	lun 04.36	157	29	lun 04.46	158	28	lun 04.57	158	27	258
lun 11-02-13	17.32	18.05	04.26	04.59	DV Psc	lun 16.53	62	35	lun 17.38	72	27	lun 18.23	80	19	-365
					HAT-133-0002525	lun 17.22	252	60	lun 18.31	256	72	lun 19.40	248	85	319
					NLTT11748	lun 17.48	17	65	lun 17.48	18	65	lun 17.48	18	65	42
					V608 Aur	lun 18.10	279	81	lun 19.11	48	87	lun 20.11	87	76	238
					V470 Cam	lun 18.22	206	59	lun 18.33	204	59	lun 18.44	203	60	256
					HAT-136-0003262 II	lun 19.03	254	61	lun 19.54	258	70	lun 20.45	260	79	403
					BS Uma II	lun 19.34	240	33	lun 20.16	244	40	lun 20.59	248	47	396
					BX Tri	lun 19.46	99	44	lun 20.37	106	34	lun 21.28	113	26	-75
					YY Gem II	lun 19.46	296	71	lun 19.47	296	71	lun 19.47	296	71	407
					GJ 3236	lun 20.10	154	54	lun 20.38	153	52	lun 21.07	152	49	106
					GSC 2499 246	lun 20.17	269	60	lun 21.07	278	70	lun 21.58	297	79	452
					NLTT11748	lun 20.35	76	42	lun 20.35	76	42	lun 20.35	76	41	41

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					V470 Cam	lun 20.40	181	65	lun 20.51	178	65	lun 21.01	176	65	256
					HAT-225-0003429 II	lun 21.17	287	69	lun 21.51	300	75	lun 22.25	325	80	462
					V449 Per	lun 21.49	113	29	lun 21.49	113	29	lun 21.50	113	29	-9
					NSVS 07826147 II	lun 22.27	235	18	lun 22.39	237	20	lun 22.50	238	22	87
					HW Vir	lun 22.49	304	21	lun 22.59	306	22	lun 23.09	308	24	315
					V470 Cam	lun 22.57	155	59	lun 23.08	154	58	lun 23.19	153	57	255
					GK Boo	lun 23.06	248	33	mar 00.12	256	45	mar 01.18	265	57	177
					NSVS 02502726 II	lun 23.07	150	75	mar 00.08	133	68	mar 01.08	129	59	364
					BS UMa	lun 23.45	261	77	mar 00.28	261	85	mar 01.11	103	87	397
					HAT-192-0001841	mar 00.06	240	30	mar 00.33	243	34	mar 00.59	245	39	31
					NSVS 01031772	mar 00.19	191	49	mar 01.05	189	51	mar 01.51	186	52	158
					GU Boo	mar 00.22	255	38	mar 01.09	261	46	mar 01.55	268	55	102
					NSVS 07826147	mar 00.24	249	38	mar 00.35	251	40	mar 00.46	252	42	87
					GSC 2499 246	mar 00.41	85	67	mar 01.31	94	58	mar 02.22	101	49	452
					NY Vir	mar 00.41	313	35	mar 00.50	315	36	mar 00.59	318	37	243
					NN Ser	mar 00.48	274	24	mar 00.49	274	24	mar 00.49	275	24	6
					V470 Cam	mar 01.15	148	46	mar 01.26	148	45	mar 01.37	148	44	255
					HW Vir	mar 01.37	348	39	mar 01.47	351	39	mar 01.57	354	39	316
					NSVS 07826147 II	mar 02.20	263	59	mar 02.31	265	61	mar 02.43	267	63	88
					HAT-225-0003429	mar 02.24	96	48	mar 02.58	101	42	mar 03.32	106	35	462
					HAT-136-0003262	mar 02.51	119	35	mar 03.42	125	27	mar 04.33	131	20	401
					NY Vir	mar 03.07	359	46	mar 03.16	2	46	mar 03.24	5	46	244
					DE CVn	mar 03.22	130	84	mar 03.22	130	84	mar 03.22	130	84	271
					V470 Cam	mar 03.33	153	33	mar 03.44	153	32	mar 03.54	154	32	254
					HAT-192-0001841 II	mar 03.49	262	69	mar 04.15	265	74	mar 04.42	269	79	32
					NN Ser	mar 03.56	320	55	mar 03.56	321	55	mar 03.56	321	55	7
					BS Uma II	mar 03.57	107	57	mar 04.40	110	49	mar 05.22	114	42	397
					NSVS 07826147	mar 04.17	290	80	mar 04.28	297	82	mar 04.39	309	84	88
					HW Vir	mar 04.25	39	31	mar 04.35	41	30	mar 04.45	44	29	316
mar 12-02-13	17.33	18.06	04.25	04.58	HAT-225-0003429 II	mar 17.45	251	31	mar 18.19	256	37	mar 18.53	260	43	461
					NSVS 01031772	mar 17.59	188	34	mar 18.45	190	35	mar 19.31	192	37	157
					V471 Tau	mar 18.06	26	63	mar 18.06	26	63	mar 18.06	26	63	43
					GSC 2499 246	mar 18.18	253	39	mar 19.08	259	49	mar 19.59	266	58	451
					HAT-136-0003262	mar 18.26	252	55	mar 19.17	256	64	mar 20.08	259	73	399
					NLTT11748	mar 18.51	48	58	mar 18.52	48	58	mar 18.52	49	58	33
					BX Tri	mar 18.53	92	53	mar 19.44	100	43	mar 20.35	106	34	-83
					HAT-145-0001586	mar 19.09	217	13	mar 20.15	226	21	mar 21.21	233	30	250
					NSVS 02502726	mar 19.17	231	59	mar 20.17	227	67	mar 21.17	211	75	362
					V470 Cam	mar 19.37	193	64	mar 19.48	191	64	mar 19.59	189	64	251
					HAT-131-0026711	mar 19.42	128	78	mar 19.42	128	78	mar 19.42	128	78	208
					V449 Per	mar 20.32	103	42	mar 20.32	103	42	mar 20.32	103	42	-17
					BS Uma II	mar 20.44	247	45	mar 21.26	251	52	mar 22.09	255	60	398
					DE CVn	mar 20.51	232	28	mar 20.51	233	28	mar 20.51	233	28	274
					V912 Per	mar 21.04	108	47	mar 21.05	108	47	mar 21.05	108	47	70
					NLTT11748	mar 21.38	88	29	mar 21.39	88	29	mar 21.39	88	29	32
					V608 Aur II	mar 21.39	93	70	mar 22.39	100	59	mar 23.40	107	48	311
					V470 Cam	mar 21.55	164	63	mar 22.06	162	62	mar 22.16	160	62	251
					GK Boo	mar 22.02	241	23	mar 23.08	249	34	mer 00.14	257	46	181
					GSC 2499 246	mar 22.42	358	84	mar 23.32	63	79	mer 00.23	82	70	450
					HAT-225-0003429	mar 22.52	6	81	mar 23.26	44	79	mer 00.00	65	73	460
					NSVS 07826147	mar 23.41	245	31	mar 23.53	246	33	mer 00.04	248	35	92
					GU Boo	mar 23.50	251	32	mer 00.36	258	41	mer 01.22	264	49	107
					HW Vir	mer 00.01	322	31	mer 00.11	324	32	mer 00.22	327	33	322
					V470 Cam	mer 00.12	149	52	mer 00.23	149	51	mer 00.34	149	50	251
					BS UMa	mer 00.55	136	89	mer 01.38	98	82	mer 02.21	100	74	398
					NY Vir	mer 00.56	318	37	mer 01.05	320	38	mer 01.13	323	39	250
					YY Gem	mer 01.05	99	41	mer 01.06	99	41	mer 01.06	99	41	401
					NSVS 07826147 II	mer 01.38	259	52	mer 01.49	260	54	mer 02.01	261	56	92
					NN Ser	mer 01.47	286	36	mer 01.47	286	36	mer 01.47	286	36	14
					NSVS 02502726 II	mer 02.00	129	51	mer 03.00	131	42	mer 04.00	135	34	361
					HAT-192-0001841 II	mer 02.02	252	50	mer 02.29	255	55	mer 02.56	258	60	36
					HAT-136-0003262 II	mer 02.14	116	41	mer 03.05	121	32	mer 03.56	127	24	398
					V470 Cam	mer 02.30	150	39	mer 02.41	150	38	mer 02.52	151	37	250
					HW Vir	mer 02.49	12	39	mer 02.59	15	38	mer 03.10	19	38	323
					NSVS 01031772	mer 02.49	182	53	mer 03.35	178	53	mer 04.21	175	52	156
					GSC 2499 246	mer 03.06	107	40	mer 03.57	113	31	mer 04.47	119	23	450
					NY Vir	mer 03.22	6	46	mer 03.30	9	46	mer 03.39	12	45	251
					NSVS 07826147	mer 03.34	277	73	mer 03.46	280	75	mer 03.57	283	77	93
					HAT-225-0003429 II	mer 03.59	110	30	mer 04.33	114	24	mer 05.07	119	18	460
					NN Ser	mer 04.54	348	60	mer 04.54	348	60	mer 04.55	348	60	15

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
mer 13-02-13	17.34	18.07	04.24	04.56	GSC 1941 1746 II	mer 13.49	232	-4	mer 19.16	287	54	gio 00.43	78	50	454
					BS UMa	mer 17.42	227	17	mer 18.25	233	23	mer 19.07	238	30	399
					HAT-136-0003262 II	mer 17.49	249	49	mer 18.40	253	58	mer 19.31	257	67	395
					PTFEB11.441	mer 17.50	109	50	mer 17.51	109	50	mer 17.51	109	50	-183
					BX Tri	mer 18.00	83	62	mer 18.51	92	52	mer 19.42	100	43	-91
					V470 Cam	mer 18.34	203	60	mer 18.45	202	61	mer 18.56	200	62	247
					V471 Tau	mer 19.07	53	55	mer 19.07	53	55	mer 19.07	53	55	34
					V449 Per	mer 19.14	93	56	mer 19.14	93	56	mer 19.15	93	56	-25
					HAT-225-0003429	mer 19.21	265	49	mer 19.55	270	56	mer 20.28	276	62	459
					NLTT11748	mer 19.55	68	47	mer 19.55	68	47	mer 19.55	69	47	24
					NSVS 01031772	mer 20.30	194	39	mer 21.15	194	41	mer 22.01	194	44	155
					YY Gem	mer 20.38	337	79	mer 20.38	337	79	mer 20.39	337	79	397
					GSC 2499 246	mer 20.43	275	67	mer 21.34	289	76	mer 22.24	331	84	449
					V470 Cam	mer 20.52	176	65	mer 21.03	173	65	mer 21.14	171	64	247
					GK Boo	mer 20.58	233	14	mer 22.04	241	24	mer 23.10	250	35	186
					BS Uma II	mer 21.54	254	58	mer 22.36	257	66	mer 23.19	260	73	399
					NSVS 02502726	mer 22.09	179	78	mer 23.09	146	74	gio 00.09	132	66	358
					HW Vir	mer 22.26	301	18	mer 22.36	303	20	mer 22.46	305	22	328
					NSVS 07826147	mer 22.59	240	25	mer 23.10	242	27	mer 23.22	243	28	96
					DE CVn	mer 23.04	245	50	mer 23.04	245	50	mer 23.04	245	50	277
					V470 Cam	mer 23.10	153	57	mer 23.21	152	56	mer 23.31	151	55	246
					GU Boo	mer 23.17	248	27	gio 00.04	254	36	gio 00.50	260	44	112
					AP Tau	mer 23.34	104	25	mer 23.35	104	25	mer 23.35	104	25	168
					HAT-192-0001841 II	gio 00.16	242	33	gio 00.43	244	37	gio 01.09	247	42	40
					HAT-225-0003429 II	gio 00.28	76	68	gio 01.02	84	62	gio 01.36	90	55	458
					NSVS 07826147 II	gio 00.55	254	45	gio 01.07	255	47	gio 01.18	257	49	97
					GSC 2499 246	gio 01.07	91	61	gio 01.58	98	52	gio 02.48	105	42	448
					NY Vir	gio 01.11	323	39	gio 01.19	326	40	gio 01.28	328	41	258
					HW Vir	gio 01.14	343	38	gio 01.24	346	38	gio 01.34	350	39	329
					V470 Cam	gio 01.28	148	44	gio 01.38	149	43	gio 01.49	149	42	246
					HAT-136-0003262	gio 01.37	113	46	gio 02.28	118	38	gio 03.19	123	29	394
					BS UMa	gio 02.05	99	76	gio 02.48	102	68	gio 03.30	105	60	399
					NN Ser	gio 02.45	301	46	gio 02.46	301	46	gio 02.46	301	47	22
					NSVS 07826147	gio 02.52	269	66	gio 03.03	271	68	gio 03.15	273	70	97
					NY Vir	gio 03.36	13	45	gio 03.45	16	45	gio 03.53	19	44	259
					GJ 3236	gio 03.42	173	22	gio 04.10	175	22	gio 04.39	178	21	93
					V470 Cam	gio 03.45	154	32	gio 03.56	155	31	gio 04.07	155	30	246
					HAT-192-0001841	gio 03.58	264	72	gio 04.25	268	77	gio 04.52	272	82	40
					HW Vir	gio 04.02	35	33	gio 04.12	37	32	gio 04.22	40	31	329
					OT Lyr	gio 04.09	261	37	gio 04.09	261	37	gio 04.09	262	37	-263
gio 14-02-13	17.36	18.08	04.23	04.55	GSC 1941 1746	gio 17.00	263	30	gio 22.27	30	70	ven 03.54	110	14	450
					BX Tri	gio 17.07	70	71	gio 17.58	84	62	gio 18.49	93	52	-99
					HAT-136-0003262	gio 17.12	246	43	gio 18.03	250	52	gio 18.54	254	61	391
					NSVS 06507557 II	gio 17.30	69	58	gio 18.15	80	50	gio 19.00	88	42	-163
					V470 Cam	gio 17.32	209	55	gio 17.42	208	56	gio 17.53	207	57	243
					V449 Per	gio 17.57	79	70	gio 17.57	79	69	gio 17.57	79	69	-33
					NLTT11748	gio 18.11	35	62	gio 18.12	35	62	gio 18.12	36	62	16
					NSVS 02502726 II	gio 18.18	231	51	gio 19.18	231	60	gio 20.18	225	69	355
					GSC 2499 246	gio 18.44	257	46	gio 19.35	264	55	gio 20.25	272	64	447
					BS UMa	gio 18.52	236	28	gio 19.34	241	35	gio 20.17	245	42	400
					V608 Aur	gio 19.27	78	82	gio 20.27	92	71	gio 21.27	100	60	216
					HAT-131-0026711	gio 19.30	130	79	gio 19.30	129	78	gio 19.30	129	78	194
					PTFEB11.441	gio 19.40	121	31	gio 19.40	121	30	gio 19.40	121	30	-190
					V470 Cam	gio 19.49	189	64	gio 20.00	187	65	gio 20.11	184	65	243
					V471 Tau	gio 20.08	71	45	gio 20.08	71	45	gio 20.08	71	45	25
					HAT-225-0003429 II	gio 20.56	284	68	gio 21.30	296	74	gio 22.04	317	79	457
					NLTT11748	gio 20.58	83	35	gio 20.59	83	35	gio 20.59	83	35	15
					HAT-133-0002525	gio 21.55	105	68	gio 23.04	109	56	ven 00.13	115	44	300
					V470 Cam	gio 22.07	160	62	gio 22.18	158	61	gio 22.29	157	60	242
					GJ 3236	gio 22.13	152	42	gio 22.41	152	40	gio 23.09	153	38	88
					NSVS 07826147	gio 22.17	235	19	gio 22.28	237	20	gio 22.40	238	22	101
					HAT-192-0001841 II	gio 22.30	229	17	gio 22.56	233	21	gio 23.23	236	25	44
					TrES-Her0-07621	gio 22.32	221	16	gio 23.37	228	24	ven 00.41	235	34	-1
					GU Boo	gio 22.45	244	23	gio 23.31	250	31	ven 00.17	256	39	117
					AP Tau	gio 22.54	99	32	gio 22.54	99	32	gio 22.55	99	32	160
					NSVS 01031772	gio 23.00	194	46	gio 23.46	192	48	ven 00.32	190	50	154
					NY Vir	gio 23.00	293	21	gio 23.09	295	22	gio 23.17	296	24	265
					BS Uma II	gio 23.03	260	71	gio 23.46	262	79	ven 00.29	257	87	400
					GSC 2499 246	gio 23.08	51	81	gio 23.59	77	73	ven 00.49	89	64	446

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					HW Vir	gio 23.38	318	29	gio 23.49	320	31	gio 23.59	323	32	335
					NSVS 07826147 II	ven 00.13	250	38	ven 00.25	251	40	ven 00.36	252	42	101
					V470 Cam	ven 00.25	149	50	ven 00.36	148	49	ven 00.46	148	48	242
					NN Ser	ven 00.37	274	24	ven 00.37	274	24	ven 00.37	275	24	28
					HAT-136-0003262 II	ven 01.00	110	52	ven 01.51	114	43	ven 02.42	120	35	390
					NSVS 02502726	ven 01.01	129	59	ven 02.01	129	50	ven 03.01	132	41	355
					DE CVn	ven 01.17	250	74	ven 01.17	250	74	ven 01.17	250	74	280
					NY Vir	ven 01.25	329	41	ven 01.34	331	42	ven 01.43	334	43	265
					YY Gem II	ven 01.57	107	30	ven 01.57	107	30	ven 01.57	107	30	391
					HAT-225-0003429	ven 02.03	95	50	ven 02.37	100	43	ven 03.11	104	37	456
					NSVS 07826147	ven 02.10	264	59	ven 02.21	265	61	ven 02.32	267	63	102
					HAT-192-0001841	ven 02.12	254	53	ven 02.39	257	58	ven 03.05	259	63	44
					HW Vir	ven 02.27	8	39	ven 02.37	11	39	ven 02.47	14	38	335
					V470 Cam	ven 02.43	151	37	ven 02.53	151	36	ven 03.04	152	35	241
					OT Lyr	ven 02.46	250	22	ven 02.46	250	22	ven 02.46	250	22	-260
					HAT-196-0006238	ven 03.02	255	41	ven 03.02	255	41	ven 03.02	255	41	-137
					BS UMa	ven 03.15	104	62	ven 03.58	108	55	ven 04.40	112	47	400
					GSC 2499 246	ven 03.33	111	34	ven 04.23	117	25	ven 05.13	124	17	446
					NN Ser	ven 03.44	320	55	ven 03.44	321	55	ven 03.45	321	55	29
					NY Vir	ven 03.51	19	44	ven 03.59	22	44	ven 04.08	25	43	266
					NSVS 07826147 II	ven 04.06	291	80	ven 04.18	298	82	ven 04.29	310	84	102
					FI Del	ven 04.51	269	22	ven 04.52	269	22	ven 04.52	269	22	-405
ven 15-02-13	17.37	18.09	04.21	04.54	DV Psc	ven 17.09	69	29	ven 17.54	78	21	ven 18.39	86	13	-387
					HAT-225-0003429 II	ven 17.24	250	30	ven 17.58	255	36	ven 18.32	259	42	455
					NSVS 06507557 II	ven 18.13	80	50	ven 18.58	89	41	ven 19.43	96	33	-171
					V912 Per	ven 18.23	90	74	ven 18.23	90	74	ven 18.24	90	74	47
					HAT-216-0003316	ven 18.35	39	77	ven 18.35	39	77	ven 18.35	40	77	131
					V470 Cam	ven 18.47	200	62	ven 18.57	199	62	ven 19.08	197	63	238
					NLTT11748	ven 19.15	60	53	ven 19.15	60	53	ven 19.15	60	53	7
					BS UMa	ven 20.02	244	40	ven 20.44	248	47	ven 21.27	252	55	401
					GSC 1941 1746 II	ven 20.11	306	64	sab 01.38	90	38	sab 07.05	144	-15	446
					BX Tri	ven 20.52	110	29	ven 21.43	117	20	ven 22.34	124	12	-108
					V470 Cam	ven 21.04	171	65	ven 21.15	169	64	ven 21.26	167	64	238
					V471 Tau	ven 21.09	84	33	ven 21.09	84	33	ven 21.09	84	33	16
					GSC 2499 246	ven 21.10	283	73	ven 22.00	311	82	ven 22.50	34	83	444
					NSVS 02502726 II	ven 21.10	209	75	ven 22.10	173	77	ven 23.10	143	73	352
					YY Gem II	ven 21.29	41	77	ven 21.30	41	77	ven 21.30	41	77	387
					NLTT11748	ven 22.02	94	23	ven 22.02	94	23	ven 22.02	94	22	6
					GU Boo	ven 22.12	240	18	ven 22.59	246	26	ven 23.45	252	34	122
					AP Tau	ven 22.14	93	39	ven 22.14	93	39	ven 22.14	94	39	152
					HAT-225-0003429	ven 22.31	353	81	ven 23.05	36	80	ven 23.39	60	75	455
					V608 Aur II	ven 22.55	103	54	ven 23.56	110	43	sab 00.56	116	33	291
					NY Vir	ven 23.15	297	24	ven 23.23	299	25	ven 23.32	300	27	272
					HAT-145-0001586	ven 23.21	244	51	sab 00.27	248	63	sab 01.33	247	74	259
					V470 Cam	ven 23.22	151	56	ven 23.33	150	55	ven 23.44	150	54	237
					NSVS 07826147 II	ven 23.31	245	31	ven 23.42	246	33	ven 23.54	248	35	106
					BS Uma II	sab 00.13	261	85	sab 00.56	103	87	sab 01.39	98	79	401
					HAT-136-0003262	sab 00.23	107	58	sab 01.14	111	49	sab 02.05	116	40	386
					HAT-192-0001841	sab 00.26	244	36	sab 00.52	246	40	sab 01.19	249	45	48
					HW Vir	sab 00.51	339	37	sab 01.01	342	38	sab 01.12	345	38	341
					TrES-Her0-07621	sab 01.26	239	42	sab 02.31	244	52	sab 03.35	247	63	3
					NSVS 07826147	sab 01.27	259	52	sab 01.39	260	54	sab 01.50	262	56	106
					NSVS 01031772	sab 01.30	187	52	sab 02.16	183	52	sab 03.02	180	53	152
					GSC 2499 246	sab 01.34	96	54	sab 02.24	103	45	sab 03.15	109	36	444
					NN Ser	sab 01.35	286	36	sab 01.35	286	36	sab 01.36	286	36	36
					V470 Cam	sab 01.40	149	42	sab 01.51	149	41	sab 02.01	149	40	237
					NY Vir	sab 01.40	335	43	sab 01.49	337	44	sab 01.57	340	44	273
					NSVS 07826147 II	sab 03.24	277	73	sab 03.35	280	76	sab 03.47	284	78	107
					DE CVn	sab 03.30	116	81	sab 03.30	116	81	sab 03.30	116	80	283
					HAT-225-0003429 II	sab 03.38	109	31	sab 04.12	113	26	sab 04.46	118	20	454
					HW Vir	sab 03.39	31	34	sab 03.49	33	33	sab 04.00	36	32	342
					NSVS 02502726	sab 03.53	136	34	sab 04.53	141	26	sab 05.53	147	20	351
					V470 Cam	sab 03.58	155	30	sab 04.08	156	29	sab 04.19	157	28	236
					NY Vir	sab 04.05	25	43	sab 04.14	28	42	sab 04.23	31	42	273
					HAT-192-0001841 II	sab 04.08	266	75	sab 04.35	270	80	sab 05.01	277	85	49
					NN Ser	sab 04.42	348	60	sab 04.43	348	60	sab 04.43	348	60	37
sab 16-02-13	17.38	18.10	04.20	04.52	V608 Aur II	sab 17.14	262	63	sab 18.15	270	74	sab 19.15	292	85	286
					NSVS 02502726	sab 17.19	229	44	sab 18.19	231	53	sab 19.19	231	62	349
					V470 Cam	sab 17.44	207	57	sab 17.55	206	58	sab 18.06	205	59	234

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					NSVS 06507557 II	sab 18.57	89	41	sab 19.42	96	33	sab 20.27	103	24	-179
					HAT-225-0003429	sab 19.00	263	48	sab 19.33	269	54	sab 20.07	275	60	453
					NSVS 01031772	sab 19.11	192	37	sab 19.56	193	38	sab 20.42	194	40	151
					GSC 2499 246	sab 19.11	262	52	sab 20.01	269	61	sab 20.51	279	71	442
					HAT-131-0026711	sab 19.18	131	79	sab 19.18	131	79	sab 19.19	131	79	180
					BX Tri	sab 19.59	104	38	sab 20.50	110	29	sab 21.41	117	20	-116
					V470 Cam	sab 20.02	185	65	sab 20.13	182	65	sab 20.23	180	65	233
					NLTT11748	sab 20.18	76	41	sab 20.19	76	41	sab 20.19	76	41	-2
					DE CVn	sab 20.59	235	32	sab 20.59	235	32	sab 20.59	235	32	285
					BS UMa	sab 21.12	251	53	sab 21.54	255	60	sab 22.37	258	68	401
					AP Tau	sab 21.33	87	45	sab 21.34	87	45	sab 21.34	87	45	144
					GU Boo	sab 21.40	236	13	sab 22.26	242	21	sab 23.12	249	29	127
					V912 Per	sab 22.07	116	33	sab 22.07	116	33	sab 22.07	116	33	37
					V471 Tau	sab 22.10	95	21	sab 22.10	95	21	sab 22.10	95	21	7
					V470 Cam	sab 22.19	157	60	sab 22.30	156	60	sab 22.41	154	59	233
					HAT-192-0001841	sab 22.39	232	20	sab 23.06	235	24	sab 23.33	238	28	52
					NSVS 07826147 II	sab 22.49	240	25	sab 23.00	242	27	sab 23.11	243	29	110
					HW Vir	sab 23.16	314	28	sab 23.26	317	29	sab 23.36	319	30	347
					NY Vir	sab 23.29	301	27	sab 23.38	303	28	sab 23.46	304	30	279
					GSC 2499 246	sab 23.35	72	76	dom 00.25	86	67	dom 01.16	94	57	442
					HAT-136-0003262 II	sab 23.46	104	64	dom 00.37	109	55	dom 01.28	113	46	382
					NSVS 02502726 II	dom 00.02	132	66	dom 01.02	128	57	dom 02.03	129	48	348
					HAT-225-0003429 II	dom 00.07	73	70	dom 00.41	82	63	dom 01.14	88	57	452
					V470 Cam	dom 00.37	148	48	dom 00.48	148	47	dom 00.59	148	46	232
					NSVS 07826147	dom 00.45	254	45	dom 00.56	256	47	dom 01.08	257	49	111
					BS Uma II	dom 01.23	98	81	dom 02.06	100	73	dom 02.48	103	66	401
					NY Vir	dom 01.55	341	44	dom 02.03	344	45	dom 02.12	347	45	280
					HW Vir	dom 02.04	3	39	dom 02.14	6	39	dom 02.24	9	39	348
					HAT-192-0001841 II	dom 02.22	256	57	dom 02.48	258	61	dom 03.15	261	66	53
					NN Ser	dom 02.34	301	46	dom 02.34	301	46	dom 02.34	301	47	43
					NSVS 07826147 II	dom 02.42	269	66	dom 02.53	271	68	dom 03.04	274	71	111
					YY Gem	dom 02.48	115	20	dom 02.48	115	20	dom 02.49	115	20	381
					V470 Cam	dom 02.55	152	35	dom 03.06	152	34	dom 03.17	153	33	232
					NSVS 01031772	dom 04.01	175	52	dom 04.47	172	51	dom 05.32	170	50	150
					NY Vir	dom 04.20	31	41	dom 04.29	34	41	dom 04.37	36	40	281
					NSVS 07826147	dom 04.38	343	86	dom 04.49	15	86	dom 05.01	40	85	112
dom 17-02-13	17.39	18.11	04.19	04.51	GSC 2499 246	dom 17.12	247	31	dom 18.02	254	40	dom 18.53	260	49	440
					BS Uma II	dom 18.10	233	23	dom 18.52	238	30	dom 19.35	242	37	402
					NLTT11748	dom 18.35	50	58	dom 18.35	50	57	dom 18.35	50	57	-10
					V470 Cam	dom 18.59	197	63	dom 19.10	195	63	dom 19.21	193	64	229
					BX Tri	dom 19.06	97	47	dom 19.57	104	38	dom 20.48	111	29	-123
					NSVS 06507557 II	dom 19.40	97	32	dom 20.25	103	24	dom 21.10	110	16	-188
					HAT-216-0003316	dom 19.44	75	65	dom 19.44	75	65	dom 19.45	75	65	114
					NSVS 02502726	dom 20.11	225	69	dom 21.11	205	76	dom 22.12	167	77	345
					HAT-225-0003429 II	dom 20.35	281	66	dom 21.09	292	72	dom 21.43	309	77	451
					V608 Aur	dom 20.43	96	66	dom 21.43	103	55	dom 22.44	109	44	193
					AP Tau	dom 20.53	80	52	dom 20.53	80	52	dom 20.54	81	52	136
					V470 Cam	dom 21.17	167	64	dom 21.28	165	63	dom 21.38	163	63	228
					NLTT11748	dom 21.22	89	29	dom 21.22	89	28	dom 21.23	89	28	-11
					GSC 2499 246	dom 21.36	298	79	dom 22.26	6	84	dom 23.17	65	78	439
					NSVS 01031772	dom 21.41	194	43	dom 22.27	194	45	dom 23.13	193	47	149
					NSVS 07826147 II	dom 22.06	235	19	dom 22.18	237	21	dom 22.29	238	22	115
					YY Gem	dom 22.21	71	68	dom 22.21	71	68	dom 22.21	71	68	376
					BS UMa	dom 22.21	257	66	dom 23.04	260	74	dom 23.47	262	81	402
					HAT-136-0003262	dom 23.08	102	70	dom 23.59	106	61	lun 00.50	110	52	378
					DE CVn	dom 23.12	247	54	dom 23.12	247	54	dom 23.12	247	54	288
					V470 Cam	dom 23.34	150	54	dom 23.45	149	53	dom 23.56	149	52	228
					NY Vir	dom 23.44	305	30	dom 23.52	307	31	lun 00.01	309	32	286
					NSVS 07826147	lun 00.03	250	38	lun 00.14	251	40	lun 00.26	252	42	115
					GJ 3236	lun 00.15	157	32	lun 00.43	159	30	lun 01.12	161	28	71
					NN Ser	lun 00.25	274	24	lun 00.25	274	24	lun 00.25	275	24	50
					HW Vir	lun 00.28	334	36	lun 00.39	337	37	lun 00.49	340	37	354
					HAT-192-0001841 II	lun 00.36	245	39	lun 01.02	248	43	lun 01.29	251	48	57
					HAT-225-0003429	lun 01.42	94	51	lun 02.16	99	45	lun 02.50	103	39	450
					V470 Cam	lun 01.52	149	40	lun 02.03	150	39	lun 02.14	150	38	228
					NSVS 07826147 II	lun 01.59	264	59	lun 02.11	265	61	lun 02.22	267	63	116
					GSC 2499 246	lun 02.00	101	48	lun 02.51	107	39	lun 03.41	113	30	439
					NY Vir	lun 02.09	347	45	lun 02.18	350	46	lun 02.27	353	46	287
					BS Uma II	lun 02.33	102	68	lun 03.16	105	60	lun 03.58	109	52	402
					NSVS 02502726 II	lun 02.54	132	41	lun 03.54	136	32	lun 04.55	142	25	344

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					HW Vir	lun 03.17	26	36	lun 03.27	29	35	lun 03.37	32	34	354
					NN Ser	lun 03.32	321	55	lun 03.32	321	55	lun 03.33	321	55	51
					NSVS 07826147	lun 03.56	292	81	lun 04.07	300	83	lun 04.19	312	84	116
					V470 Cam	lun 04.10	157	29	lun 04.21	158	28	lun 04.32	159	27	227
					HAT-192-0001841	lun 04.18	269	79	lun 04.44	274	84	lun 05.11	299	88	57
					NY Vir	lun 04.35	37	39	lun 04.43	39	38	lun 04.52	41	37	288
lun 18-02-13	17.40	18.13	04.17	04.50	YY Gem	lun 17.53	273	56	lun 17.54	274	56	lun 17.54	274	56	372
					V470 Cam	lun 17.56	205	59	lun 18.07	204	60	lun 18.18	203	60	224
					BX Tri	lun 18.13	89	56	lun 19.04	97	47	lun 19.55	104	37	-131
					PTFEB11.441	lun 18.22	114	41	lun 18.22	114	41	lun 18.22	114	41	-215
					GJ 3236	lun 18.46	159	58	lun 19.14	157	56	lun 19.42	154	54	67
					HAT-131-0026711	lun 19.06	133	80	lun 19.07	133	80	lun 19.07	133	80	165
					BS Uma II	lun 19.20	241	35	lun 20.02	245	42	lun 20.45	250	49	402
					GSC 2499 246	lun 19.37	267	58	lun 20.27	275	68	lun 21.18	291	77	437
					NLTT11748	lun 19.38	69	47	lun 19.39	69	47	lun 19.39	69	47	-19
					AP Tau	lun 20.13	72	59	lun 20.13	72	59	lun 20.13	72	59	128
					V470 Cam	lun 20.14	180	65	lun 20.25	178	65	lun 20.36	175	65	224
					HAT-225-0003429	lun 22.10	340	81	lun 22.44	26	81	lun 23.18	55	76	448
					HAT-136-0003262 II	lun 22.31	101	76	lun 23.22	103	67	mar 00.13	107	57	373
					V470 Cam	lun 22.32	155	59	lun 22.43	154	58	lun 22.53	152	57	223
					HAT-192-0001841 II	lun 22.49	234	22	lun 23.16	237	26	lun 23.43	240	30	60
					HW Vir	lun 22.53	311	26	lun 23.03	313	27	lun 23.13	316	28	359
					NSVS 02502726	lun 23.03	141	72	mar 00.03	131	65	mar 01.04	128	56	341
					NSVS 07826147	lun 23.20	245	31	lun 23.32	247	33	lun 23.43	248	35	120
					BS UMa	lun 23.31	262	79	mar 00.14	257	87	mar 00.57	99	85	402
					NY Vir	lun 23.58	309	33	mar 00.07	311	34	mar 00.16	313	35	293
					GSC 2499 246	mar 00.01	82	69	mar 00.52	92	60	mar 01.42	99	51	436
					NSVS 01031772	mar 00.11	190	50	mar 00.57	188	51	mar 01.43	185	52	147
					V608 Aur II	mar 00.12	113	38	mar 01.12	120	28	mar 02.12	127	19	271
					V470 Cam	mar 00.50	148	46	mar 01.00	148	45	mar 01.11	148	44	223
					NSVS 07826147 II	mar 01.17	259	52	mar 01.28	260	54	mar 01.40	262	56	120
					NN Ser	mar 01.23	286	36	mar 01.24	286	36	mar 01.24	286	36	58
					DE CVn	mar 01.25	248	78	mar 01.25	248	78	mar 01.25	248	78	291
					HW Vir	mar 01.41	358	39	mar 01.51	1	39	mar 02.02	5	39	360
					NY Vir	mar 02.24	354	46	mar 02.33	357	46	mar 02.41	360	46	294
					HAT-192-0001841	mar 02.32	257	60	mar 02.58	260	65	mar 03.25	263	70	61
					GK Boo	mar 03.06	306	81	mar 04.12	50	82	mar 05.18	82	71	210
					V470 Cam	mar 03.07	153	33	mar 03.18	154	32	mar 03.29	154	31	222
					NSVS 07826147	mar 03.13	277	74	mar 03.25	280	76	mar 03.36	284	78	121
					HAT-225-0003429 II	mar 03.17	107	33	mar 03.51	112	27	mar 04.25	116	21	447
					HAT-145-0001586	mar 03.33	122	81	mar 04.39	112	70	mar 05.45	113	58	268
					BS Uma II	mar 03.43	108	54	mar 04.26	112	47	mar 05.08	116	40	403
					HW Vir	mar 04.29	46	27	mar 04.39	49	26	mar 04.50	51	24	361
					NN Ser	mar 04.31	348	60	mar 04.31	348	60	mar 04.31	348	60	59
mar 19-02-13	17.41	18.14	04.16	04.48	HAT-133-0002525	mar 16.43	252	59	mar 17.52	256	71	mar 19.01	251	83	270
					BX Tri	mar 17.20	79	65	mar 18.11	90	56	mar 19.02	97	46	-139
					GSC 2499 246	mar 17.38	252	37	mar 18.29	258	46	mar 19.19	265	56	434
					NSVS 01031772	mar 17.52	189	34	mar 18.37	191	36	mar 19.23	193	38	146
					NLTT11748	mar 17.55	37	62	mar 17.55	37	62	mar 17.56	37	62	-27
					V608 Aur II	mar 18.31	276	79	mar 19.31	18	88	mar 20.31	86	78	266
					HAT-225-0003429	mar 18.38	262	46	mar 19.12	267	52	mar 19.46	273	58	446
					V470 Cam	mar 19.11	193	64	mar 19.22	191	64	mar 19.33	189	65	219
					NSVS 02502726 II	mar 19.12	230	62	mar 20.12	223	71	mar 21.13	200	77	337
					V912 Per	mar 19.25	100	60	mar 19.26	100	60	mar 19.26	100	60	14
					AP Tau	mar 19.32	61	65	mar 19.33	61	65	mar 19.33	61	65	120
					PTFEB11.441	mar 20.11	127	23	mar 20.12	127	23	mar 20.12	127	22	-221
					BS Uma II	mar 20.30	248	47	mar 21.12	252	55	mar 21.55	256	62	403
					NLTT11748	mar 20.42	83	34	mar 20.42	83	34	mar 20.43	83	34	-28
					HAT-216-0003316	mar 20.53	91	50	mar 20.54	91	50	mar 20.54	91	50	97
					V470 Cam	mar 21.29	163	63	mar 21.40	161	62	mar 21.51	160	62	219
					HAT-136-0003262	mar 21.54	101	82	mar 22.45	101	73	mar 23.36	105	63	369
					GSC 2499 246	mar 22.02	335	84	mar 22.53	55	81	mar 23.43	79	72	434
					NSVS 07826147	mar 22.38	240	25	mar 22.50	242	27	mar 23.01	243	29	124
					YY Gem II	mar 23.12	85	57	mar 23.12	85	57	mar 23.13	85	57	365
					HAT-225-0003429 II	mar 23.45	70	71	mer 00.19	80	65	mer 00.53	87	59	445
					V470 Cam	mar 23.47	149	52	mar 23.58	149	51	mer 00.08	148	50	218
					HW Vir	mer 00.06	330	35	mer 00.16	333	36	mer 00.26	336	36	366
					NY Vir	mer 00.13	314	35	mer 00.22	316	36	mer 00.30	318	37	300
					NSVS 07826147 II	mer 00.35	254	45	mer 00.46	256	47	mer 00.57	257	49	125

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					BS UMa	mer 00.41	102	87	mer 01.24	98	79	mer 02.06	100	71	403
					HAT-192-0001841	mer 00.45	247	42	mer 01.12	250	46	mer 01.39	253	51	65
					NSVS 02502726	mer 01.55	129	48	mer 02.55	133	39	mer 03.56	137	31	336
					GK Boo	mer 02.02	279	71	mer 03.08	311	82	mer 04.14	55	81	214
					V470 Cam	mer 02.05	150	38	mer 02.15	150	37	mer 02.26	151	36	218
					NN Ser	mer 02.22	301	46	mer 02.22	301	46	mer 02.23	301	47	65
					GSC 2499 246	mer 02.27	105	42	mer 03.17	111	33	mer 04.07	118	25	433
					NSVS 07826147	mer 02.31	270	67	mer 02.42	272	69	mer 02.54	274	71	125
					NY Vir	mer 02.39	0	46	mer 02.47	3	46	mer 02.56	7	46	301
					NSVS 01031772	mer 02.42	180	53	mer 03.28	177	52	mer 04.13	174	52	146
					HW Vir	mer 02.54	22	37	mer 03.04	25	36	mer 03.14	28	35	366
					DE CVn	mer 03.38	111	76	mer 03.38	111	76	mer 03.38	111	76	293
					V470 Cam	mer 04.22	158	27	mer 04.33	159	26	mer 04.44	160	26	217
					NSVS 07826147 II	mer 04.28	347	86	mer 04.39	18	86	mer 04.50	42	85	125
					FI Del	mer 04.39	270	23	mer 04.39	271	23	mer 04.39	271	23	-396
mer 20-02-13	17.43	18.15	04.15	04.47	BS UMa	mer 17.28	229	19	mer 18.10	234	25	mer 18.53	239	32	403
					V470 Cam	mer 18.09	203	60	mer 18.20	201	61	mer 18.30	200	62	215
					YY Gem II	mer 18.45	287	67	mer 18.45	287	67	mer 18.45	287	67	361
					AP Tau	mer 18.52	45	70	mer 18.52	45	70	mer 18.53	45	70	112
					HAT-131-0026711	mer 18.55	135	80	mer 18.55	135	80	mer 18.55	135	80	151
					NLTT11748	mer 18.59	61	52	mer 18.59	61	52	mer 18.59	61	52	-36
					GSC 2499 246	mer 20.03	272	65	mer 20.54	284	74	mer 21.44	315	82	431
					HAT-225-0003429 II	mer 20.14	279	64	mer 20.48	289	70	mer 21.22	303	76	443
					NSVS 01031772	mer 20.22	194	40	mer 21.08	194	42	mer 21.54	194	44	144
					V470 Cam	mer 20.26	175	65	mer 20.37	173	65	mer 20.48	171	64	214
					DE CVn	mer 21.07	237	35	mer 21.07	237	35	mer 21.07	237	35	295
					HAT-136-0003262 II	mer 21.17	121	88	mer 22.08	100	79	mer 22.59	102	69	364
					V449 Per	mer 21.33	115	26	mer 21.33	115	26	mer 21.34	115	26	-83
					BS Uma II	mer 21.39	255	60	mer 22.22	258	68	mer 23.05	261	76	403
					NLTT11748	mer 21.46	95	22	mer 21.46	95	22	mer 21.46	95	22	-37
					NSVS 07826147	mer 21.56	236	19	mer 22.07	237	21	mer 22.19	239	23	129
					V608 Aur	mer 21.59	106	50	mer 23.00	112	39	gio 00.00	119	29	170
					NSVS 02502726 II	mer 22.04	164	77	mer 23.05	139	71	gio 00.05	130	63	333
					HW Vir	mer 22.30	308	23	mer 22.41	310	25	mer 22.51	312	26	371
					V470 Cam	mer 22.44	153	57	mer 22.55	152	56	mer 23.06	151	55	214
					HAT-192-0001841	mer 22.59	236	25	mer 23.26	239	29	mer 23.52	242	33	69
					V912 Per	mer 23.09	125	21	mer 23.09	126	21	mer 23.09	126	21	4
					NSVS 07826147 II	mer 23.52	250	38	gio 00.04	251	40	gio 00.15	253	42	129
					CU Cnc	mer 23.53	65	52	gio 00.53	79	41	gio 01.52	90	30	439
					NN Ser	gio 00.13	274	24	gio 00.13	274	24	gio 00.14	275	24	72
					NY Vir	gio 00.28	319	38	gio 00.36	321	39	gio 00.45	324	40	307
					GSC 2499 246	gio 00.28	89	63	gio 01.18	97	54	gio 02.09	103	45	430
					GK Boo	gio 00.57	267	60	gio 02.03	280	72	gio 03.09	318	83	218
					V470 Cam	gio 01.02	148	44	gio 01.13	149	43	gio 01.23	149	42	213
					HW Vir	gio 01.18	353	39	gio 01.29	357	39	gio 01.39	360	39	372
					CM Dra II	gio 01.19	226	48	gio 01.46	227	52	gio 02.13	227	56	57
					HAT-225-0003429	gio 01.21	92	53	gio 01.55	97	47	gio 02.29	102	40	442
					NSVS 07826147	gio 01.49	264	59	gio 02.00	266	62	gio 02.12	267	64	129
					BS UMa	gio 01.51	100	73	gio 02.34	103	66	gio 03.16	106	58	403
					GJ 3236	gio 02.18	168	24	gio 02.46	170	23	gio 03.14	173	22	54
					HAT-192-0001841 II	gio 02.41	259	63	gio 03.08	262	68	gio 03.35	265	73	69
					NY Vir	gio 02.53	7	46	gio 03.02	10	46	gio 03.10	13	45	308
					V470 Cam	gio 03.20	154	32	gio 03.30	155	31	gio 03.41	156	30	213
					NN Ser	gio 03.20	321	55	gio 03.21	321	55	gio 03.21	321	55	73
					NSVS 07826147 II	gio 03.45	292	81	gio 03.57	301	83	gio 04.08	314	84	130
					HW Vir	gio 04.07	43	29	gio 04.17	45	28	gio 04.27	48	26	372
gio 21-02-13	17.44	18.16	04.13	04.46	GSC 2499 246	gio 18.05	256	43	gio 18.55	262	53	gio 19.45	270	62	428
					AP Tau	gio 18.12	20	74	gio 18.12	21	74	gio 18.12	21	74	104
					NSVS 02502726	gio 18.13	232	55	gio 19.14	230	64	gio 20.14	220	72	330
					BS UMa	gio 18.38	238	30	gio 19.20	242	37	gio 20.03	247	44	403
					V470 Cam	gio 19.24	189	65	gio 19.35	186	65	gio 19.45	184	65	209
					NLTT11748	gio 20.02	77	40	gio 20.02	77	40	gio 20.03	77	40	-45
					BX Tri	gio 20.11	108	32	gio 21.02	115	23	gio 21.53	122	15	-155
					V449 Per	gio 20.16	106	39	gio 20.16	106	39	gio 20.16	106	39	-91
					HAT-136-0003262	gio 20.40	254	86	gio 21.31	104	85	gio 22.22	101	75	359
					GJ 3236	gio 20.48	152	48	gio 21.16	151	45	gio 21.45	152	43	49
					V470 Cam	gio 21.41	160	62	gio 21.52	158	61	gio 22.03	157	60	209
					HAT-225-0003429	gio 21.49	329	80	gio 22.23	14	81	gio 22.57	49	78	440
					HAT-216-0003316	gio 22.03	102	36	gio 22.03	102	36	gio 22.03	102	36	80

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					GSC 2499 246	gio 22.29	37	83	gio 23.19	73	75	ven 00.10	86	66	428
					BS Uma II	gio 22.49	261	74	gio 23.32	262	82	ven 00.15	217	89	403
					NSVS 01031772	gio 22.52	193	47	gio 23.38	191	49	ven 00.24	189	51	142
					NSVS 07826147 II	gio 23.10	245	32	gio 23.21	247	34	gio 23.33	248	36	133
					DE CVn	gio 23.20	248	58	gio 23.20	248	58	gio 23.20	248	58	298
					HW Vir	gio 23.43	326	33	gio 23.53	329	34	ven 00.03	332	35	377
					GK Boo	gio 23.53	259	49	ven 00.59	268	61	ven 02.05	282	73	223
					V470 Cam	gio 23.59	148	50	ven 00.10	148	49	ven 00.21	148	48	208
					YY Gem	ven 00.04	95	46	ven 00.04	95	46	ven 00.04	95	46	354
					NY Vir	ven 00.42	324	40	ven 00.51	327	41	ven 01.00	329	41	314
					HAT-192-0001841 II	ven 00.55	249	45	ven 01.22	252	49	ven 01.48	254	54	73
					NSVS 02502726 II	ven 00.56	128	55	ven 01.57	130	46	ven 02.57	133	38	328
					NSVS 07826147	ven 01.06	259	52	ven 01.18	260	54	ven 01.29	262	57	134
					NN Ser	ven 01.12	286	36	ven 01.12	286	36	ven 01.12	286	36	79
					V470 Cam	ven 02.17	151	37	ven 02.28	151	36	ven 02.39	152	35	208
					HW Vir	ven 02.31	18	38	ven 02.41	21	37	ven 02.52	24	36	378
					GSC 2499 246	ven 02.53	109	36	ven 03.43	116	27	ven 04.34	122	19	427
					HAT-225-0003429 II	ven 02.56	106	35	ven 03.30	111	29	ven 04.04	115	23	439
					BS UMa	ven 03.01	105	60	ven 03.44	109	52	ven 04.26	113	45	403
					NSVS 07826147 II	ven 03.03	278	74	ven 03.14	281	76	ven 03.26	285	78	134
					NY Vir	ven 03.08	14	45	ven 03.16	17	45	ven 03.25	20	44	315
					HAT-196-0006238	ven 03.50	265	55	ven 03.50	265	55	ven 03.50	265	55	-110
					NN Ser	ven 04.19	348	60	ven 04.19	348	60	ven 04.20	348	60	80
					OT Lyr	ven 04.21	268	45	ven 04.22	268	45	ven 04.22	268	45	-238
					V470 Cam	ven 04.35	160	26	ven 04.45	161	25	ven 04.56	162	24	207
ven 22-02-13	17.45	18.17	04.12	04.44	GSC 1941 1746 II	ven 15.19	252	17	ven 20.46	340	72	sab 02.13	100	27	419
					NSVS 06507557	ven 17.07	71	57	ven 17.52	81	49	ven 18.37	90	40	-225
					HAT-225-0003429	ven 18.17	261	44	ven 18.51	266	50	ven 19.25	271	57	437
					NLTT11748	ven 18.19	51	57	ven 18.19	51	57	ven 18.19	51	57	-53
					V470 Cam	ven 18.21	200	62	ven 18.32	198	62	ven 18.43	196	63	205
					HAT-131-0026711	ven 18.43	138	81	ven 18.43	138	81	ven 18.44	137	81	136
					V449 Per	ven 18.58	96	52	ven 18.59	96	52	ven 18.59	96	52	-98
					BX Tri	ven 19.18	101	41	ven 20.09	108	32	ven 21.00	115	23	-163
					YY Gem	ven 19.36	314	76	ven 19.36	314	76	ven 19.37	314	76	349
					V608 Aur II	ven 19.47	73	84	ven 20.47	91	73	ven 21.47	99	61	245
					BS UMa	ven 19.48	246	42	ven 20.30	250	49	ven 21.13	253	57	403
					HAT-136-0003262 II	ven 20.03	260	80	ven 20.54	224	89	ven 21.45	101	82	355
					GSC 2499 246	ven 20.30	280	71	ven 21.20	301	80	ven 22.11	14	84	425
					V470 Cam	ven 20.39	171	64	ven 20.50	169	64	ven 21.00	166	64	204
					NSVS 02502726	ven 21.05	197	77	ven 22.06	159	76	ven 23.06	137	70	325
					NLTT11748	ven 21.06	89	28	ven 21.06	89	28	ven 21.06	89	28	-54
					HAT-133-0002525	ven 21.16	105	70	ven 22.25	109	57	ven 23.34	115	45	249
					HW Vir	ven 22.08	304	21	ven 22.18	307	23	ven 22.28	309	24	382
					NSVS 07826147 II	ven 22.28	241	25	ven 22.39	242	27	ven 22.51	243	29	138
					NY Vir	ven 22.31	294	21	ven 22.40	295	23	ven 22.49	297	24	320
					GK Boo	ven 22.49	252	38	ven 23.55	260	50	sab 01.01	269	62	227
					V470 Cam	ven 22.57	151	55	ven 23.07	150	54	ven 23.18	150	53	204
					CM Dra	ven 22.58	219	31	ven 23.26	221	35	ven 23.53	223	38	61
					HAT-192-0001841 II	ven 23.09	238	28	ven 23.35	241	32	sab 00.02	244	36	77
					HAT-225-0003429 II	ven 23.24	66	73	ven 23.58	77	67	sab 00.32	85	61	437
					BS Uma II	ven 23.59	256	87	sab 00.42	99	85	sab 01.24	99	77	403
					NSVS 07826147	sab 00.24	255	45	sab 00.36	256	47	sab 00.47	257	49	138
					GSC 2499 246	sab 00.54	94	57	sab 01.45	101	47	sab 02.35	108	38	424
					HW Vir	sab 00.56	349	39	sab 01.06	352	39	sab 01.16	355	39	383
					NY Vir	sab 00.57	330	42	sab 01.06	332	42	sab 01.14	335	43	321
					V470 Cam	sab 01.14	149	42	sab 01.25	149	41	sab 01.36	149	40	203
					NSVS 01031772	sab 01.23	185	52	sab 02.09	182	53	sab 02.54	178	53	140
					DE CVn	sab 01.33	241	82	sab 01.33	241	82	sab 01.33	241	82	300
					NN Ser	sab 02.10	301	46	sab 02.10	301	46	sab 02.11	301	47	87
					NSVS 07826147 II	sab 02.21	270	67	sab 02.32	272	69	sab 02.43	274	71	138
					HAT-192-0001841	sab 02.51	261	66	sab 03.18	264	71	sab 03.44	267	76	77
					OT Lyr	sab 02.58	256	30	sab 02.58	256	30	sab 02.59	256	30	-235
					NY Vir	sab 03.22	20	44	sab 03.31	23	44	sab 03.40	26	43	321
					V470 Cam	sab 03.32	156	30	sab 03.43	156	29	sab 03.54	157	28	203
					HW Vir	sab 03.44	39	31	sab 03.54	42	30	sab 04.04	44	28	384
					NSVS 07826147	sab 04.17	351	86	sab 04.29	22	86	sab 04.40	45	85	139
sab 23-02-13	17.46	18.18	04.10	04.43	NSVS 02502726 II	sab 17.14	230	47	sab 18.15	232	56	sab 19.15	229	65	321
					NSVS 06507557	sab 17.50	82	48	sab 18.35	90	40	sab 19.20	97	32	-233
					CU Cnc	sab 18.24	288	47	sab 19.24	305	57	sab 20.23	330	65	428

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					BX Tri	sab 18.25	94	50	sab 19.16	102	41	sab 20.07	108	32	-170
					GSC 1941 1746	sab 18.30	285	53	sab 23.57	77	51	dom 05.24	131	-6	414
					GSC 2499 246	sab 18.31	260	50	sab 19.21	267	59	sab 20.12	276	68	422
					PTFEB11.441	sab 18.53	120	32	sab 18.54	120	32	sab 18.54	120	32	-245
					NSVS 01031772	sab 19.03	192	37	sab 19.49	194	39	sab 20.35	194	41	139
					NLTT11748	sab 19.22	70	46	sab 19.22	70	46	sab 19.23	70	46	-62
					HAT-136-0003262	sab 19.26	259	73	sab 20.17	258	83	sab 21.08	116	88	350
					V470 Cam	sab 19.36	184	65	sab 19.47	182	65	sab 19.58	179	65	199
					HAT-225-0003429 II	sab 19.53	277	63	sab 20.27	286	69	sab 21.00	299	75	434
					V912 Per	sab 20.27	108	46	sab 20.28	108	46	sab 20.28	108	46	-19
					BS UMa	sab 20.57	252	55	sab 21.40	256	63	sab 22.23	259	70	403
					TrES-Her0-07621	sab 21.43	219	14	sab 22.48	227	23	sab 23.53	234	32	28
					NSVS 07826147 II	sab 21.45	236	19	sab 21.57	237	21	sab 22.08	239	23	142
					GK Boo	sab 21.45	244	27	sab 22.51	252	39	sab 23.57	260	51	231
					HAT-145-0001586	sab 21.51	240	42	sab 22.57	245	53	dom 00.03	248	64	280
					V470 Cam	sab 21.54	157	60	sab 22.05	155	59	sab 22.15	154	59	199
					NY Vir	sab 22.46	297	24	sab 22.55	299	26	sab 23.03	301	27	327
					GSC 2499 246	sab 22.55	66	78	sab 23.46	83	69	dom 00.36	92	59	421
					HAT-216-0003316	sab 23.12	113	22	sab 23.12	113	22	sab 23.13	113	22	63
					V608 Aur	sab 23.15	115	35	dom 00.16	122	25	dom 01.16	130	16	146
					HW Vir	sab 23.20	322	32	sab 23.31	325	33	sab 23.41	328	34	388
					NSVS 07826147	sab 23.42	250	39	sab 23.53	251	41	dom 00.05	253	43	142
					NSVS 02502726	sab 23.57	130	63	dom 00.58	128	54	dom 01.58	130	45	320
					NN Ser	dom 00.01	274	24	dom 00.02	274	24	dom 00.02	275	24	93
					V470 Cam	dom 00.12	148	48	dom 00.22	148	47	dom 00.33	148	46	198
					YY Gem II	dom 00.55	104	35	dom 00.55	104	35	dom 00.56	104	35	342
					HAT-225-0003429	dom 01.00	91	55	dom 01.34	96	48	dom 02.07	101	42	433
					HAT-192-0001841	dom 01.05	251	48	dom 01.31	254	52	dom 01.58	256	57	81
					BS Uma II	dom 01.09	98	79	dom 01.52	100	71	dom 02.34	104	63	403
					NY Vir	dom 01.12	336	43	dom 01.20	338	44	dom 01.29	341	44	327
					NSVS 07826147 II	dom 01.38	264	60	dom 01.50	266	62	dom 02.01	267	64	143
					HW Vir	dom 02.08	13	38	dom 02.19	16	38	dom 02.29	19	37	389
					V470 Cam	dom 02.29	152	35	dom 02.40	152	34	dom 02.51	153	33	198
					NN Ser	dom 03.09	321	55	dom 03.09	321	55	dom 03.09	321	55	94
					GSC 2499 246	dom 03.19	114	30	dom 04.10	120	22	dom 05.00	127	14	420
					NSVS 07826147	dom 03.35	293	81	dom 03.46	302	83	dom 03.58	316	85	143
					NY Vir	dom 03.37	26	43	dom 03.46	29	42	dom 03.54	32	41	328
					DE CVn	dom 03.46	110	72	dom 03.46	110	72	dom 03.46	110	72	302
					NSVS 01031772	dom 03.53	174	52	dom 04.39	171	51	dom 05.25	169	49	138
					NSVS 14256825	dom 04.32	282	20	dom 04.42	284	21	dom 04.52	286	23	-403
dom 24-02-13	17.47	18.20	04.09	04.41	BX Tri	dom 17.32	86	59	dom 18.23	95	50	dom 19.14	102	40	-178
					V608 Aur	dom 17.35	285	83	dom 18.35	70	85	dom 19.35	90	73	140
					V471 Tau	dom 17.47	39	60	dom 17.48	39	60	dom 17.48	39	60	-61
					BS Uma II	dom 17.56	234	25	dom 18.38	239	32	dom 19.21	244	39	403
					HAT-131-0026711	dom 18.31	141	81	dom 18.32	140	81	dom 18.32	140	81	121
					V470 Cam	dom 18.33	197	63	dom 18.44	195	63	dom 18.55	192	64	194
					NSVS 06507557	dom 18.34	90	39	dom 19.19	97	31	dom 20.04	104	23	-241
					HAT-136-0003262 II	dom 18.49	257	67	dom 19.40	259	77	dom 20.31	253	86	345
					NSVS 02502726 II	dom 20.07	219	72	dom 21.07	191	77	dom 22.07	154	76	317
					NLTT11748	dom 20.26	84	34	dom 20.26	84	34	dom 20.26	84	34	-71
					YY Gem II	dom 20.28	15	80	dom 20.28	16	80	dom 20.28	16	80	337
					CM Dra II	dom 20.38	206	18	dom 21.05	209	20	dom 21.33	212	23	64
					GK Boo	dom 20.41	236	18	dom 21.47	245	28	dom 22.53	253	40	234
					V470 Cam	dom 20.51	167	64	dom 21.02	165	63	dom 21.13	163	63	194
					GSC 2499 246	dom 20.56	291	77	dom 21.47	342	84	dom 22.37	58	80	418
					DE CVn	dom 21.14	240	39	dom 21.15	240	39	dom 21.15	240	39	304
					HAT-225-0003429	dom 21.28	320	79	dom 22.02	1	81	dom 22.36	41	79	431
					NSVS 01031772	dom 21.33	194	44	dom 22.19	194	46	dom 23.05	192	48	137
					HW Vir	dom 21.45	301	19	dom 21.55	303	20	dom 22.05	306	22	393
					BS UMa	dom 22.07	258	68	dom 22.50	261	76	dom 23.33	262	84	403
					GJ 3236	dom 22.51	154	36	dom 23.19	156	34	dom 23.47	157	32	31
					NSVS 07826147	dom 23.00	245	32	dom 23.11	247	34	dom 23.22	248	36	146
					NY Vir	dom 23.01	301	27	dom 23.09	303	29	dom 23.18	305	30	333
					V470 Cam	dom 23.09	150	54	dom 23.20	149	53	dom 23.30	149	51	193
					HAT-192-0001841	dom 23.19	240	30	dom 23.45	243	35	lun 00.12	246	39	85
					G179-55	dom 23.19	239	36	dom 23.19	239	36	dom 23.19	239	36	124
					HW Vir	lun 00.33	344	38	lun 00.43	347	38	lun 00.53	350	39	394
					TrES-Her0-07621	lun 00.37	238	39	lun 01.42	243	50	lun 02.47	247	61	32
					NSVS 07826147 II	lun 00.56	259	53	lun 01.07	261	55	lun 01.19	262	57	147
					NN Ser	lun 01.00	286	36	lun 01.00	286	36	lun 01.00	286	36	101

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					GSC 2499 246	lun 01.21	99	50	lun 02.11	106	41	lun 03.01	112	32	417
					NY Vir	lun 01.26	342	44	lun 01.35	345	45	lun 01.43	348	45	334
					V470 Cam	lun 01.27	149	40	lun 01.37	150	39	lun 01.48	150	38	193
					BS Uma II	lun 02.19	103	65	lun 03.02	106	58	lun 03.44	110	50	403
					HAT-225-0003429 II	lun 02.35	105	36	lun 03.09	109	30	lun 03.43	114	25	430
					HAT-136-0003262	lun 02.36	123	29	lun 03.27	129	22	lun 04.18	136	15	343
					NSVS 02502726	lun 02.50	134	37	lun 03.50	138	30	lun 04.50	144	23	315
					NSVS 07826147	lun 02.53	278	74	lun 03.04	281	76	lun 03.15	285	78	147
					HAT-192-0001841 II	lun 03.01	263	69	lun 03.27	266	74	lun 03.54	269	79	86
					HW Vir	lun 03.21	35	33	lun 03.31	38	31	lun 03.42	41	30	394
					V470 Cam	lun 03.44	157	28	lun 03.55	158	28	lun 04.06	159	27	192
					NY Vir	lun 03.52	32	41	lun 04.00	35	40	lun 04.09	37	39	334
					NN Ser	lun 04.07	348	60	lun 04.08	348	60	lun 04.08	348	60	102
					NSVS 14256825	lun 04.22	281	19	lun 04.32	283	20	lun 04.42	284	22	-399
					FI Del	lun 04.26	272	24	lun 04.26	272	24	lun 04.26	272	24	-384
lun 25-02-13	17.48	18.21	04.07	04.40	GJ 3236	lun 17.21	168	61	lun 17.50	163	60	lun 18.18	160	58	27
					HAT-225-0003429	lun 17.56	260	42	lun 18.30	264	49	lun 19.04	270	55	428
					HAT-136-0003262	lun 18.12	255	61	lun 19.03	258	71	lun 19.54	259	80	340
					NLTT11748	lun 18.42	62	52	lun 18.42	62	52	lun 18.43	62	51	-79
					V471 Tau	lun 18.48	61	51	lun 18.49	62	51	lun 18.49	62	51	-70
					GSC 2499 246	lun 18.57	265	56	lun 19.48	273	65	lun 20.38	286	75	415
					BS Uma II	lun 19.06	243	37	lun 19.48	247	44	lun 20.31	251	52	402
					NSVS 06507557	lun 19.17	98	31	lun 20.02	105	22	lun 20.47	111	14	-248
					V470 Cam	lun 19.48	180	65	lun 19.59	177	65	lun 20.10	175	65	189
					V608 Aur II	lun 21.03	95	67	lun 22.03	102	56	lun 23.04	108	46	223
					NLTT11748	lun 21.29	95	21	lun 21.30	95	21	lun 21.30	95	21	-80
					V470 Cam	lun 22.06	154	59	lun 22.17	153	58	lun 22.28	152	57	188
					NSVS 07826147	lun 22.17	241	26	lun 22.29	242	27	lun 22.40	244	29	151
					HW Vir	lun 22.58	318	30	lun 23.08	321	31	lun 23.18	324	32	399
					NSVS 02502726 II	lun 22.59	136	70	lun 23.59	129	61	mar 00.59	129	52	312
					HAT-225-0003429 II	lun 23.03	62	74	lun 23.37	75	69	mar 00.11	83	62	427
					NY Vir	lun 23.15	305	30	lun 23.24	307	32	lun 23.33	310	33	339
					BS UMa	lun 23.17	262	82	mar 00.00	203	89	mar 00.42	98	82	402
					GSC 2499 246	lun 23.22	79	72	mar 00.12	90	62	mar 01.02	97	53	414
					DE CVn	lun 23.28	249	62	lun 23.28	249	62	lun 23.28	249	62	306
					NSVS 01031772	mar 00.04	189	50	mar 00.50	187	52	mar 01.35	183	52	135
					NSVS 07826147 II	mar 00.14	255	46	mar 00.25	256	48	mar 00.37	257	50	151
					V470 Cam	mar 00.24	148	46	mar 00.35	148	45	mar 00.46	148	44	188
					HAT-192-0001841 II	mar 01.15	253	51	mar 01.41	255	56	mar 02.08	258	60	89
					NY Vir	mar 01.41	348	45	mar 01.49	351	46	mar 01.58	354	46	340
					HW Vir	mar 01.46	8	39	mar 01.56	12	39	mar 02.06	15	38	399
					YY Gem	mar 01.46	112	25	mar 01.47	112	25	mar 01.47	112	25	329
					NN Ser	mar 01.58	301	46	mar 01.59	301	46	mar 01.59	301	47	108
					HAT-136-0003262 II	mar 01.59	120	35	mar 02.50	125	27	mar 03.41	131	19	338
					NSVS 07826147	mar 02.10	270	67	mar 02.22	272	69	mar 02.33	274	71	151
					V470 Cam	mar 02.42	153	33	mar 02.52	154	32	mar 03.03	154	31	187
					CM Dra II	mar 03.05	222	65	mar 03.32	217	68	mar 03.59	210	71	66
					BS Uma II	mar 03.29	109	52	mar 04.11	113	45	mar 04.54	117	38	402
					TrES-Her0-07621	mar 03.31	247	69	mar 04.36	238	80	mar 05.41	150	85	36
					NY Vir	mar 04.06	37	39	mar 04.15	40	38	mar 04.24	42	37	341
					NSVS 07826147 II	mar 04.07	355	86	mar 04.18	25	86	mar 04.29	47	84	152
mar 26-02-13	17.50	18.22	04.06	04.38	HAT-136-0003262 II	mar 17.34	252	55	mar 18.25	256	65	mar 19.16	259	74	335
					NSVS 01031772	mar 17.44	190	35	mar 18.30	192	37	mar 19.16	193	38	133
					HAT-131-0026711	mar 18.20	144	82	mar 18.20	143	81	mar 18.20	143	81	106
					V470 Cam	mar 18.46	193	64	mar 18.57	190	64	mar 19.07	188	65	184
					NSVS 02502726	mar 19.08	228	66	mar 20.08	216	73	mar 21.08	185	78	308
					HAT-225-0003429 II	mar 19.31	275	61	mar 20.05	283	67	mar 20.39	294	73	424
					NLTT11748	mar 19.46	78	40	mar 19.46	78	40	mar 19.46	78	40	-88
					V471 Tau	mar 19.49	77	40	mar 19.50	77	40	mar 19.50	77	40	-79
					BS Uma II	mar 20.15	250	50	mar 20.58	254	57	mar 21.41	257	65	402
					V470 Cam	mar 21.03	163	63	mar 21.14	161	62	mar 21.25	159	61	183
					YY Gem	mar 21.19	61	72	mar 21.19	61	72	mar 21.20	61	72	324
					GSC 2499 246	mar 21.23	317	82	mar 22.13	42	82	mar 23.04	75	74	411
					NSVS 07826147	mar 21.35	236	19	mar 21.46	237	21	mar 21.58	239	23	155
					V470 Cam	mar 23.21	149	52	mar 23.32	149	51	mar 23.43	148	50	183
					HAT-192-0001841 II	mar 23.28	242	33	mar 23.55	245	38	mer 00.22	248	42	93
					NY Vir	mar 23.30	310	33	mar 23.39	312	34	mar 23.47	314	35	346
					NSVS 07826147 II	mar 23.31	250	39	mar 23.43	252	41	mar 23.54	253	43	155
					NN Ser	mar 23.50	274	24	mar 23.50	274	24	mar 23.50	275	24	115

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					HW Vir	mer 00.10	340	37	mer 00.21	343	38	mer 00.31	346	38	404
					BS UMa	mer 00.27	98	84	mer 01.10	99	77	mer 01.52	101	69	402
					HAT-225-0003429	mer 00.39	89	56	mer 01.12	94	50	mer 01.46	99	44	423
					HAT-136-0003262	mer 01.22	116	40	mer 02.13	121	32	mer 03.04	127	24	333
					NSVS 07826147	mer 01.28	264	60	mer 01.39	266	62	mer 01.51	268	64	155
					V470 Cam	mer 01.39	150	38	mer 01.50	151	37	mer 02.01	151	36	182
					DE CVn	mer 01.41	220	85	mer 01.41	220	85	mer 01.41	219	85	308
					GSC 2499 246	mer 01.47	104	44	mer 02.37	110	35	mer 03.28	116	27	410
					NSVS 02502726 II	mer 01.51	130	44	mer 02.51	134	36	mer 03.51	139	28	306
					NY Vir	mer 01.55	355	46	mer 02.04	358	46	mer 02.13	1	46	346
					HAT-145-0001586	mer 02.03	207	85	mer 03.09	119	80	mer 04.15	112	68	286
					NSVS 01031772	mer 02.34	179	53	mer 03.20	175	52	mer 04.06	172	51	133
					NN Ser	mer 02.57	321	55	mer 02.57	321	55	mer 02.58	321	55	116
					HW Vir	mer 02.58	31	34	mer 03.09	34	33	mer 03.19	37	32	405
					HAT-192-0001841	mer 03.11	265	73	mer 03.37	268	78	mer 04.04	273	83	93
					NSVS 07826147 II	mer 03.24	294	81	mer 03.36	303	83	mer 03.47	319	85	156
					V470 Cam	mer 03.57	159	27	mer 04.07	159	26	mer 04.18	160	26	182
					NY Vir	mer 04.21	43	37	mer 04.30	45	36	mer 04.38	47	35	347
mer 27-02-13	17.51	18.23	04.04	04.37	BS UMa	mer 17.14	231	21	mer 17.56	236	27	mer 18.39	241	34	401
					V470 Cam	mer 17.43	203	60	mer 17.54	201	61	mer 18.05	200	62	179
					NLTT11748	mer 18.02	52	57	mer 18.03	52	57	mer 18.03	52	56	-96
					V608 Aur	mer 18.51	83	79	mer 19.51	94	68	mer 20.51	101	57	116
					DE CVn	mer 19.09	228	22	mer 19.10	228	22	mer 19.10	228	22	309
					GSC 2499 246	mer 19.24	270	62	mer 20.14	281	72	mer 21.05	304	80	407
					BX Tri	mer 19.30	106	35	mer 20.21	112	26	mer 21.12	119	18	-201
					V470 Cam	mer 20.01	175	65	mer 20.12	173	65	mer 20.22	170	64	178
					NSVS 01031772	mer 20.14	194	41	mer 21.00	194	43	mer 21.46	194	45	131
					NLTT11748	mer 20.49	90	27	mer 20.50	90	27	mer 20.50	90	27	-97
					V471 Tau	mer 20.50	89	28	mer 20.51	89	28	mer 20.51	89	28	-88
					HAT-225-0003429	mer 21.07	312	78	mer 21.41	348	81	mer 22.15	32	80	420
					BS Uma II	mer 21.25	256	63	mer 22.08	259	71	mer 22.51	262	78	401
					V912 Per	mer 21.29	117	32	mer 21.30	117	32	mer 21.30	117	32	-52
					HAT-192-0001841 II	mer 21.42	230	17	mer 22.09	233	21	mer 22.35	236	25	97
					NSVS 02502726	mer 22.00	152	75	mer 23.00	134	68	gio 00.00	129	60	303
					V470 Cam	mer 22.19	152	57	mer 22.29	152	56	mer 22.40	151	55	178
					HW Vir	mer 22.35	315	28	mer 22.45	317	29	mer 22.55	320	30	409
					NSVS 07826147 II	mer 22.49	246	32	mer 23.01	247	34	mer 23.12	248	36	159
					NY Vir	mer 23.45	315	36	mer 23.53	317	37	gio 00.02	319	38	352
					GSC 2499 246	mer 23.48	87	65	gio 00.38	95	56	gio 01.29	102	47	406
					V470 Cam	gio 00.36	148	44	gio 00.47	149	43	gio 00.58	149	42	177
					CM Dra	gio 00.44	226	47	gio 01.12	227	51	gio 01.39	227	55	70
					HAT-136-0003262 II	gio 00.45	113	46	gio 01.36	118	37	gio 02.27	123	29	328
					NSVS 07826147	gio 00.46	259	53	gio 00.57	261	55	gio 01.08	262	57	160
					NN Ser	gio 00.48	286	36	gio 00.48	286	36	gio 00.49	286	36	122
					GJ 3236	gio 00.53	163	27	gio 01.21	165	25	gio 01.50	168	24	14
					HW Vir	gio 01.23	4	39	gio 01.33	7	39	gio 01.43	10	39	409
					HAT-192-0001841	gio 01.24	254	54	gio 01.51	257	59	gio 02.18	260	64	97
					BS UMa	gio 01.37	101	71	gio 02.20	104	63	gio 03.02	107	55	401
					NY Vir	gio 02.10	1	46	gio 02.19	5	46	gio 02.27	8	46	353
					HAT-225-0003429 II	gio 02.14	104	38	gio 02.48	108	32	gio 03.22	113	26	419
					NSVS 07826147 II	gio 02.42	278	74	gio 02.53	282	76	gio 03.05	286	79	160
					V470 Cam	gio 02.54	154	31	gio 03.05	155	31	gio 03.16	156	30	177
					GU Boo	gio 03.26	329	81	gio 04.12	31	81	gio 04.58	65	74	182
					DE CVn	gio 03.54	110	68	gio 03.54	110	68	gio 03.54	110	68	310
					NN Ser	gio 03.55	348	60	gio 03.56	348	60	gio 03.56	348	60	123
					HW Vir	gio 04.11	50	25	gio 04.21	53	23	gio 04.31	55	22	410
gio 28-02-13	17.52	18.24	04.03	04.35	GSC 2499 246	gio 17.25	254	41	gio 18.15	261	50	gio 19.06	268	60	403
					HAT-225-0003429	gio 17.35	258	41	gio 18.09	263	47	gio 18.43	268	53	417
					HAT-131-0026711	gio 18.08	147	82	gio 18.08	147	82	gio 18.08	146	82	91
					NSVS 02502726 II	gio 18.09	231	58	gio 19.09	227	67	gio 20.09	213	74	299
					BS UMa	gio 18.24	239	32	gio 19.06	244	39	gio 19.49	248	46	400
					BX Tri	gio 18.37	99	44	gio 19.28	106	35	gio 20.19	113	26	-208
					V470 Cam	gio 18.58	188	65	gio 19.09	186	65	gio 19.20	184	65	173
					NLTT11748	gio 19.06	71	46	gio 19.06	71	45	gio 19.06	71	45	-105
					GJ 3236	gio 19.24	153	52	gio 19.52	152	50	gio 20.20	152	48	9
					PTFEB11.441	gio 19.25	125	24	gio 19.25	125	24	gio 19.26	125	24	-273
					V470 Cam	gio 21.16	159	62	gio 21.27	158	61	gio 21.37	156	60	173
					DE CVn	gio 21.22	242	43	gio 21.23	242	43	gio 21.23	242	43	311
					GSC 2499 246	gio 21.49	17	84	gio 22.40	68	77	gio 23.30	84	68	403

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					NSVS 07826147 II	gio 22.07	241	26	gio 22.18	242	28	gio 22.30	244	30	163
					YY Gem II	gio 22.10	80	62	gio 22.11	80	62	gio 22.11	80	62	311
					V608 Aur II	gio 22.19	105	51	gio 23.20	111	41	ven 00.20	118	30	200
					BS Uma II	gio 22.35	261	76	gio 23.18	262	84	ven 00.00	107	88	400
					HAT-225-0003429 II	gio 22.42	57	76	gio 23.16	72	70	gio 23.50	81	64	416
					NSVS 01031772	gio 22.45	192	48	gio 23.30	190	50	ven 00.16	188	51	129
					V470 Cam	gio 23.34	148	50	gio 23.44	148	49	gio 23.55	148	48	172
					HAT-192-0001841	gio 23.38	244	36	ven 00.05	247	41	ven 00.31	249	45	101
					HW Vir	gio 23.48	335	36	gio 23.58	338	37	ven 00.08	341	38	414
					NY Vir	gio 23.59	320	38	ven 00.08	322	39	ven 00.17	325	40	358
					NSVS 07826147	ven 00.03	255	46	ven 00.15	256	48	ven 00.26	258	50	164
					HAT-136-0003262	ven 00.08	110	51	ven 00.59	115	43	ven 01.50	120	34	322
					NSVS 02502726	ven 00.52	129	52	ven 01.52	131	43	ven 02.53	135	35	297
					NN Ser	ven 01.47	301	46	ven 01.47	301	47	ven 01.47	301	47	129
					V470 Cam	ven 01.51	151	36	ven 02.02	151	35	ven 02.13	152	35	172
					NSVS 07826147 II	ven 02.00	270	67	ven 02.11	272	69	ven 02.23	275	72	164
					GSC 2499 246	ven 02.13	108	38	ven 03.04	114	29	ven 03.54	121	21	402
					NY Vir	ven 02.25	8	46	ven 02.33	11	45	ven 02.42	14	45	359
					HW Vir	ven 02.36	27	35	ven 02.46	30	35	ven 02.56	33	34	414
					BS UMa	ven 02.47	106	57	ven 03.29	110	50	ven 04.12	114	43	400
					GU Boo	ven 02.53	304	77	ven 03.40	352	82	ven 04.26	48	79	187
					HAT-192-0001841 II	ven 03.20	267	76	ven 03.47	271	81	ven 04.14	279	86	101
					NSVS 07826147	ven 03.56	358	86	ven 04.08	28	85	ven 04.19	49	84	164
					V470 Cam	ven 04.09	160	26	ven 04.20	161	25	ven 04.31	162	24	171
ven 01-03-13	17.53	18.25	04.01	04.34	BX Tri	ven 17.44	92	53	ven 18.35	99	44	ven 19.26	106	35	-215
					V470 Cam	ven 17.55	200	62	ven 18.06	198	62	ven 18.17	196	63	168
					HAT-225-0003429 II	ven 19.10	273	59	ven 19.44	281	65	ven 20.18	291	71	413
					BS UMa	ven 19.33	247	44	ven 20.16	251	52	ven 20.59	255	59	400
					GSC 2499 246	ven 19.50	277	69	ven 20.41	293	78	ven 21.31	349	84	399
					NLTT11748	ven 20.09	84	33	ven 20.10	84	33	ven 20.10	84	33	-114
					V470 Cam	ven 20.13	170	64	ven 20.24	168	64	ven 20.35	166	64	167
					NSVS 02502726 II	ven 21.01	182	78	ven 22.01	148	74	ven 23.02	133	67	293
					V449 Per	ven 21.17	118	23	ven 21.18	118	23	ven 21.18	118	23	-155
					NSVS 07826147 II	ven 21.25	236	20	ven 21.36	238	21	ven 21.47	239	23	167
					NY Vir	ven 21.48	291	19	ven 21.57	292	20	ven 22.06	294	22	363
					HAT-192-0001841	ven 21.52	232	20	ven 22.18	235	24	ven 22.45	238	28	104
					HW Vir	ven 22.12	311	26	ven 22.22	314	27	ven 22.33	316	29	418
					CM Dra II	ven 22.24	219	31	ven 22.51	221	34	ven 23.19	223	37	73
					V470 Cam	ven 22.31	151	55	ven 22.42	150	54	ven 22.52	150	53	167
					NSVS 07826147	ven 23.21	250	39	ven 23.32	252	41	ven 23.44	253	43	168
					HAT-136-0003262 II	ven 23.31	107	57	sab 00.22	112	48	sab 01.13	116	40	317
					DE CVn	ven 23.36	250	66	ven 23.36	250	66	ven 23.36	250	66	312
					NN Ser	ven 23.38	274	24	ven 23.38	275	24	ven 23.38	275	24	136
					BS Uma II	ven 23.45	186	89	sab 00.28	98	82	sab 01.10	99	74	399
					NY Vir	sab 00.14	325	40	sab 00.23	327	41	sab 00.31	330	42	364
					GSC 2499 246	sab 00.14	93	59	sab 01.05	100	50	sab 01.55	106	41	398
					HAT-225-0003429	sab 00.17	87	58	sab 00.51	93	52	sab 01.25	98	46	412
					V470 Cam	sab 00.49	149	42	sab 00.59	149	41	sab 01.10	149	40	166
					HW Vir	sab 01.00	359	39	sab 01.11	2	39	sab 01.21	5	39	419
					NSVS 01031772	sab 01.15	184	52	sab 02.01	180	53	sab 02.47	177	52	127
					NSVS 07826147 II	sab 01.17	265	60	sab 01.29	266	62	sab 01.40	268	64	168
					HAT-192-0001841 II	sab 01.34	256	57	sab 02.01	259	62	sab 02.27	261	67	105
					GU Boo	sab 02.21	290	72	sab 03.07	318	80	sab 03.53	18	82	191
					NY Vir	sab 02.39	15	45	sab 02.48	18	45	sab 02.57	21	44	365
					NN Ser	sab 02.45	321	55	sab 02.45	321	55	sab 02.46	321	55	137
					GK Boo	sab 02.49	343	84	sab 03.55	69	78	sab 05.01	87	66	255
					V470 Cam	sab 03.06	156	30	sab 03.17	156	29	sab 03.28	157	28	166
					NSVS 07826147	sab 03.14	295	82	sab 03.25	305	83	sab 03.37	321	85	168
					HW Vir	sab 03.48	47	27	sab 03.59	49	25	sab 04.09	52	24	419
					FI Del	sab 04.13	273	25	sab 04.13	273	26	sab 04.14	273	26	-369
sab 02-03-13	17.54	18.27	04.00	04.32	GSC 1941 1746	sab 13.37	241	5	sab 19.04	303	63	dom 00.31	89	40	380
					NSVS 02502726	sab 17.10	231	51	sab 18.10	231	60	sab 19.11	226	68	289
					GSC 2499 246	sab 17.51	259	47	sab 18.42	265	57	sab 19.32	274	66	395
					HAT-131-0026711	sab 17.56	151	82	sab 17.56	151	82	sab 17.57	150	82	76
					NLTT11748	sab 18.26	63	51	sab 18.26	63	51	sab 18.26	63	51	-122
					V912 Per	sab 18.48	101	59	sab 18.48	101	59	sab 18.49	101	59	-75
					NSVS 01031772	sab 18.55	193	38	sab 19.41	194	40	sab 20.27	194	42	125
					V470 Cam	sab 19.10	184	65	sab 19.21	181	65	sab 19.32	179	65	162
					V449 Per	sab 20.00	108	35	sab 20.00	108	35	sab 20.00	108	35	-163

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					V608 Aur	sab 20.07	98	63	sab 21.07	104	52	sab 22.08	111	41	91
					HAT-133-0002525	sab 20.37	104	71	sab 21.46	108	59	sab 22.55	114	47	192
					BS UMa	sab 20.43	254	57	sab 21.26	257	65	sab 22.09	260	73	399
					HAT-225-0003429	sab 20.46	306	77	sab 21.20	336	81	sab 21.53	21	81	409
					NLTT11748	sab 21.13	96	21	sab 21.13	96	21	sab 21.14	96	21	-123
					V470 Cam	sab 21.28	157	60	sab 21.39	155	59	sab 21.50	154	58	162
					NY Vir	sab 22.03	294	22	sab 22.12	296	23	sab 22.20	298	25	369
					GSC 2499 246	sab 22.16	59	80	sab 23.06	80	71	sab 23.56	90	62	394
					NSVS 07826147	sab 22.39	246	32	sab 22.50	247	34	sab 23.02	249	36	171
					HAT-136-0003262	sab 22.54	105	63	sab 23.45	109	54	dom 00.36	113	45	311
					YY Gem	sab 23.02	91	51	sab 23.02	91	51	sab 23.02	91	51	298
					HW Vir	sab 23.25	331	35	sab 23.35	334	36	sab 23.45	337	37	423
					V470 Cam	sab 23.46	148	48	sab 23.57	148	47	dom 00.08	148	46	161
					HAT-192-0001841 II	sab 23.48	246	39	dom 00.14	249	44	dom 00.41	251	48	108
					NSVS 02502726 II	sab 23.53	129	59	dom 00.53	129	50	dom 01.54	131	42	288
					NY Vir	dom 00.29	331	42	dom 00.37	333	43	dom 00.46	336	43	370
					NSVS 07826147 II	dom 00.35	260	53	dom 00.47	261	55	dom 00.58	262	57	172
					NN Ser	dom 00.36	286	36	dom 00.37	286	36	dom 00.37	286	36	143
					BS Uma II	dom 00.55	99	76	dom 01.38	101	69	dom 02.20	105	61	398
					GK Boo	dom 01.45	287	76	dom 02.51	355	85	dom 03.57	71	77	258
					GU Boo	dom 01.48	282	67	dom 02.35	298	75	dom 03.21	337	81	196
					DE CVn	dom 01.49	163	86	dom 01.49	162	86	dom 01.49	161	86	314
					HAT-225-0003429 II	dom 01.53	102	40	dom 02.27	107	34	dom 03.01	111	28	408
					V470 Cam	dom 02.04	152	35	dom 02.14	153	34	dom 02.25	153	33	161
					HW Vir	dom 02.13	23	37	dom 02.23	26	36	dom 02.33	29	35	424
					NSVS 07826147	dom 02.32	279	75	dom 02.43	282	77	dom 02.54	286	79	172
					GSC 2499 246	dom 02.40	112	32	dom 03.30	118	24	dom 04.21	125	16	393
					NY Vir	dom 02.54	21	44	dom 03.03	24	43	dom 03.11	27	43	370
					GJ 3236	dom 02.56	175	22	dom 03.24	177	21	dom 03.52	180	21	-4
					OT Lyr	dom 03.10	263	38	dom 03.11	263	38	dom 03.11	263	38	-205
					HAT-192-0001841	dom 03.30	269	79	dom 03.57	275	84	dom 04.23	316	89	109
					NN Ser	dom 03.44	348	60	dom 03.44	348	60	dom 03.44	348	60	144
					NSVS 01031772	dom 03.45	173	51	dom 04.31	170	50	dom 05.17	168	48	124
dom 03-03-13	17.55	18.28	03.58	04.30	GSC 1941 1746 II	dom 16.49	271	40	dom 22.16	57	63	lun 03.43	119	5	374
					NSVS 06507557 II	dom 17.27	83	47	dom 18.12	91	38	dom 18.57	98	30	-290
					BS Uma II	dom 17.42	236	27	dom 18.24	241	34	dom 19.07	245	41	398
					V470 Cam	dom 18.08	196	63	dom 18.19	194	64	dom 18.29	192	64	157
					YY Gem	dom 18.34	299	72	dom 18.35	299	72	dom 18.35	299	72	292
					V449 Per	dom 18.42	99	49	dom 18.43	99	49	dom 18.43	99	49	-170
					DE CVn	dom 19.17	230	25	dom 19.18	230	25	dom 19.18	231	25	315
					NLTT11748	dom 19.29	78	39	dom 19.30	78	39	dom 19.30	78	39	-130
					NSVS 02502726	dom 20.02	211	75	dom 21.02	176	78	dom 22.03	144	73	284
					GSC 2499 246	dom 20.17	286	75	dom 21.07	322	83	dom 21.57	47	82	390
					HAT-145-0001586	dom 20.22	235	32	dom 21.28	241	43	dom 22.34	245	54	295
					V470 Cam	dom 20.26	166	64	dom 20.36	164	63	dom 20.47	162	63	156
					NSVS 01031772	dom 21.26	194	45	dom 22.11	193	47	dom 22.57	191	49	123
					GJ 3236	dom 21.26	152	41	dom 21.54	153	38	dom 22.23	154	36	-9
					HW Vir	dom 21.50	308	24	dom 22.00	310	25	dom 22.10	313	27	427
					BS UMa	dom 21.53	259	71	dom 22.36	262	79	dom 23.18	259	86	397
					NSVS 07826147	dom 21.56	241	26	dom 22.08	243	28	dom 22.19	244	30	175
					HAT-192-0001841 II	dom 22.02	234	23	dom 22.28	237	27	dom 22.55	240	31	112
					HAT-136-0003262 II	dom 22.16	102	69	dom 23.07	106	60	dom 23.58	110	51	305
					NY Vir	dom 22.18	298	25	dom 22.26	300	26	dom 22.35	302	28	375
					HAT-225-0003429 II	dom 22.21	51	77	dom 22.55	69	72	dom 23.29	79	66	404
					V912 Per	dom 22.32	126	20	dom 22.32	126	20	dom 22.32	126	20	-85
					V470 Cam	dom 22.43	150	53	dom 22.54	149	52	dom 23.05	149	51	156
					V608 Aur II	dom 23.36	114	36	lun 00.36	121	26	lun 01.36	129	17	177
					NSVS 07826147 II	dom 23.53	255	46	lun 00.04	256	48	lun 00.16	258	50	176
					HW Vir	lun 00.38	354	39	lun 00.48	357	39	lun 00.58	1	39	428
					GSC 2499 246	lun 00.41	98	53	lun 01.31	104	43	lun 02.22	110	34	389
					GK Boo	lun 00.41	272	65	lun 01.47	289	77	lun 02.53	8	84	262
					NY Vir	lun 00.43	337	43	lun 00.52	339	44	lun 01.00	342	45	376
					V470 Cam	lun 01.01	149	40	lun 01.12	150	39	lun 01.23	150	38	155
					GU Boo	lun 01.16	275	62	lun 02.02	287	70	lun 02.48	309	78	200
					NN Ser	lun 01.35	301	46	lun 01.35	301	47	lun 01.36	301	47	150
					G179-55	lun 01.43	251	65	lun 01.43	251	65	lun 01.43	251	65	147
					HAT-192-0001841	lun 01.44	258	60	lun 02.11	260	65	lun 02.37	263	70	113
					OT Lyr	lun 01.47	251	24	lun 01.47	251	24	lun 01.48	251	24	-201
					NSVS 07826147	lun 01.49	271	68	lun 02.01	273	70	lun 02.12	275	72	176
					BS Uma II	lun 02.05	104	63	lun 02.47	107	55	lun 03.30	111	48	397

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					NSVS 02502726 II	lun 02.45	135	34	lun 03.45	140	27	lun 04.46	147	20	282
					NY Vir	lun 03.09	27	43	lun 03.17	30	42	lun 03.26	32	41	376
					V470 Cam	lun 03.19	157	28	lun 03.30	158	28	lun 03.40	159	27	155
					HW Vir	lun 03.26	43	29	lun 03.36	46	27	lun 03.46	48	26	428
					NSVS 07826147 II	lun 03.46	2	86	lun 03.57	31	85	lun 04.09	50	84	176
					DE CVn	lun 04.02	110	64	lun 04.02	110	64	lun 04.02	110	64	315
lun 04-03-13	17.57	18.29	03.56	04.29	V608 Aur II	lun 17.55	281	82	lun 18.55	61	86	lun 19.55	89	75	171
					PTFEB11.441	lun 18.07	118	34	lun 18.07	118	34	lun 18.08	118	34	-294
					NSVS 06507557 II	lun 18.10	92	38	lun 18.55	99	30	lun 19.40	105	21	-297
					GSC 2499 246	lun 18.18	263	54	lun 19.08	271	63	lun 19.59	282	72	386
					HAT-225-0003429 II	lun 18.49	272	57	lun 19.23	278	64	lun 19.57	287	70	401
					BS Uma II	lun 18.51	244	39	lun 19.34	248	47	lun 20.17	252	54	396
					V470 Cam	lun 19.23	179	65	lun 19.34	177	65	lun 19.44	174	65	151
					BX Tri	lun 19.43	110	30	lun 20.34	117	21	lun 21.25	124	13	-238
					GSC 1941 1746	lun 20.00	335	71	mar 01.27	99	28	mar 06.54	156	-20	368
					NLTT11748	lun 20.33	90	27	lun 20.33	91	27	lun 20.34	91	27	-139
					TrES-Her0-07621	lun 20.55	217	13	lun 22.00	225	21	lun 23.05	232	30	57
					NSVS 07826147	lun 21.14	236	20	lun 21.25	238	22	lun 21.37	239	23	179
					DE CVn	lun 21.30	244	47	lun 21.31	244	47	lun 21.31	244	47	316
					HAT-136-0003262	lun 21.39	101	75	lun 22.30	104	66	lun 23.21	107	57	300
					V470 Cam	lun 21.41	154	59	lun 21.51	153	58	lun 22.02	152	57	151
					NY Vir	lun 22.32	302	28	lun 22.41	304	29	lun 22.50	306	31	381
					GSC 2499 246	lun 22.42	75	74	lun 23.32	88	65	mar 00.23	96	55	385
					NSVS 02502726	lun 22.54	132	66	lun 23.55	129	58	mar 00.55	129	49	278
					HW Vir	lun 23.02	327	33	lun 23.12	330	34	lun 23.23	332	35	432
					BS UMa	lun 23.03	262	84	lun 23.46	106	88	mar 00.28	98	80	396
					NSVS 07826147 II	lun 23.11	251	39	lun 23.22	252	41	lun 23.33	253	43	180
					NN Ser	lun 23.26	274	24	lun 23.26	275	24	lun 23.27	275	24	156
					GK Boo	lun 23.37	263	53	mar 00.43	273	66	mar 01.49	292	78	265
					YY Gem II	lun 23.53	100	40	lun 23.54	100	40	lun 23.54	100	40	284
					NSVS 01031772	lun 23.56	188	51	mar 00.42	185	52	mar 01.28	182	53	120
					HAT-225-0003429	lun 23.56	86	60	mar 00.30	92	54	mar 01.04	97	47	400
					HAT-192-0001841	lun 23.58	248	42	mar 00.24	250	47	mar 00.51	253	52	116
					V470 Cam	lun 23.58	148	46	mar 00.09	148	45	mar 00.20	148	44	150
					GU Boo	mar 00.43	270	57	mar 01.30	279	65	mar 02.16	293	73	204
					NY Vir	mar 00.58	343	45	mar 01.06	346	45	mar 01.15	349	45	381
					NSVS 07826147	mar 01.07	265	60	mar 01.18	266	63	mar 01.30	268	65	180
					HW Vir	mar 01.50	18	38	mar 02.00	21	37	mar 02.11	24	36	432
					V470 Cam	mar 02.16	153	33	mar 02.27	154	32	mar 02.38	155	31	149
					CM Dra	mar 02.30	223	64	mar 02.57	219	68	mar 03.25	212	71	78
					NN Ser	mar 02.33	321	55	mar 02.34	321	55	mar 02.34	321	55	157
					NSVS 07826147 II	mar 03.04	296	82	mar 03.15	306	84	mar 03.26	323	85	180
					BS Uma II	mar 03.15	110	50	mar 03.57	114	42	mar 04.40	119	35	396
					NY Vir	mar 03.23	33	41	mar 03.32	35	40	mar 03.41	38	39	382
					HAT-192-0001841 II	mar 03.40	273	83	mar 04.07	287	87	mar 04.33	74	87	117
mar 05-03-13	17.58	18.30	03.55	04.27	NSVS 01031772	mar 17.36	191	36	mar 18.22	192	37	mar 19.08	194	39	118
					V470 Cam	mar 18.20	192	64	mar 18.31	190	64	mar 18.42	188	65	146
					NLTT11748	mar 18.49	72	45	mar 18.50	72	45	mar 18.50	72	45	-147
					BX Tri	mar 18.50	103	38	mar 19.41	110	29	mar 20.32	117	21	-245
					NSVS 06507557 II	mar 18.54	99	29	mar 19.39	106	21	mar 20.24	113	13	-304
					NSVS 02502726 II	mar 19.03	225	69	mar 20.04	207	76	mar 21.04	170	77	274
					YY Gem II	mar 19.26	344	80	mar 19.26	344	80	mar 19.26	345	80	279
					BS Uma II	mar 20.01	251	52	mar 20.44	255	60	mar 21.27	258	67	395
					HAT-225-0003429	mar 20.25	300	75	mar 20.58	325	80	mar 21.32	9	81	396
					V470 Cam	mar 20.38	162	63	mar 20.49	161	62	mar 20.59	159	61	145
					GSC 2499 246	mar 20.43	305	81	mar 21.33	25	84	mar 22.24	70	76	381
					HAT-136-0003262 II	mar 21.02	101	81	mar 21.53	102	72	mar 22.44	105	63	294
					V608 Aur	mar 21.23	107	47	mar 22.24	114	37	mar 23.24	121	27	66
					HW Vir	mar 21.27	305	22	mar 21.37	307	23	mar 21.47	309	25	436
					HAT-192-0001841	mar 22.11	236	25	mar 22.38	239	30	mar 23.05	242	34	120
					NSVS 07826147 II	mar 22.28	246	33	mar 22.40	247	35	mar 22.51	249	37	183
					GK Boo	mar 22.33	255	43	mar 23.39	263	55	mer 00.45	274	67	268
					NY Vir	mar 22.47	306	31	mar 22.56	308	32	mar 23.04	310	33	386
					V470 Cam	mar 22.56	149	51	mar 23.06	149	50	mar 23.17	148	49	145
					DE CVn	mar 23.44	250	70	mar 23.44	250	70	mar 23.44	250	70	318
					TrES-Her0-07621	mar 23.49	237	37	mer 00.54	242	48	mer 01.58	246	59	60
					GU Boo	mer 00.11	266	51	mer 00.57	273	60	mer 01.43	283	68	208
					BS UMa	mer 00.13	98	82	mer 00.56	99	74	mer 01.38	102	66	395
					HW Vir	mer 00.15	349	39	mer 00.25	353	39	mer 00.35	356	39	436

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					NN Ser	mer 00.25	286	36	mer 00.25	286	36	mer 00.25	286	36	163
					NSVS 07826147	mer 00.25	260	53	mer 00.36	261	55	mer 00.48	263	58	184
					GSC 2499 246	mer 01.07	102	46	mer 01.58	108	37	mer 02.48	115	29	380
					NY Vir	mer 01.12	349	45	mer 01.21	352	46	mer 01.30	355	46	387
					V470 Cam	mer 01.13	150	38	mer 01.24	151	37	mer 01.35	151	36	144
					HAT-225-0003429 II	mer 01.32	101	42	mer 02.06	106	35	mer 02.39	110	29	395
					NSVS 02502726	mer 01.46	132	41	mer 02.47	136	33	mer 03.47	141	26	272
					HAT-192-0001841 II	mer 01.54	260	64	mer 02.20	262	68	mer 02.47	265	73	120
					NSVS 07826147 II	mer 02.21	279	75	mer 02.33	283	77	mer 02.44	287	79	184
					NSVS 01031772	mer 02.26	177	52	mer 03.12	174	52	mer 03.58	171	51	118
					HW Vir	mer 03.03	40	31	mer 03.13	42	29	mer 03.23	45	28	437
					V470 Cam	mer 03.31	159	27	mer 03.42	160	26	mer 03.53	160	25	144
					NN Ser	mer 03.32	348	60	mer 03.32	348	60	mer 03.33	348	60	164
					NY Vir	mer 03.38	38	39	mer 03.47	41	38	mer 03.55	43	37	387
mer 06-03-13	17.59	18.31	03.53	04.26	BX Tri	mer 17.57	97	47	mer 18.48	104	38	mer 19.39	110	29	-251
					GSC 2499 246	mer 18.44	268	60	mer 19.35	278	69	mer 20.25	295	78	377
					V470 Cam	mer 19.35	175	65	mer 19.46	172	65	mer 19.57	170	64	140
					V912 Per	mer 19.50	109	45	mer 19.51	109	45	mer 19.51	109	45	-108
					NLTT11748	mer 19.53	85	33	mer 19.53	85	33	mer 19.54	85	33	-155
					NSVS 01031772	mer 20.07	194	42	mer 20.52	194	44	mer 21.38	194	46	116
					HAT-136-0003262	mer 20.25	115	87	mer 21.16	100	78	mer 22.07	103	69	288
					CU Cnc	mer 20.28	357	67	mer 21.27	32	65	mer 22.27	56	57	373
					BS Uma II	mer 21.11	257	65	mer 21.54	260	73	mer 22.36	262	81	393
					GK Boo	mer 21.29	247	32	mer 22.35	256	44	mer 23.41	264	56	271
					NSVS 07826147 II	mer 21.46	241	26	mer 21.57	243	28	mer 22.09	244	30	187
					V470 Cam	mer 21.53	152	57	mer 22.04	151	56	mer 22.15	151	55	139
					NSVS 02502726 II	mer 21.55	143	73	mer 22.56	131	65	mer 23.56	128	56	268
					HAT-225-0003429 II	mer 22.00	44	79	mer 22.34	65	73	mer 23.08	76	67	391
					HW Vir	mer 22.39	323	32	mer 22.50	326	33	mer 23.00	328	34	440
					NY Vir	mer 23.02	311	33	mer 23.10	313	35	mer 23.19	315	36	391
					GSC 2499 246	mer 23.08	84	68	mer 23.59	93	58	gio 00.49	100	49	376
					GJ 3236	mer 23.29	159	30	mer 23.57	161	28	gio 00.25	163	27	-27
					GU Boo	mer 23.38	261	46	gio 00.25	268	55	gio 01.11	277	63	212
					NSVS 07826147	mer 23.42	255	46	mer 23.54	257	48	gio 00.05	258	50	187
					HAT-192-0001841 II	gio 00.07	249	45	gio 00.34	252	50	gio 01.01	255	55	124
					CM Dra II	gio 00.10	226	47	gio 00.37	227	50	gio 01.05	227	54	81
					V470 Cam	gio 00.11	148	44	gio 00.21	149	43	gio 00.32	149	42	139
					HAT-145-0001586	gio 00.34	245	77	gio 01.40	192	86	gio 02.46	117	78	299
					YY Gem	gio 00.45	108	29	gio 00.45	108	29	gio 00.45	108	29	270
					BS UMa	gio 01.23	101	68	gio 02.05	105	61	gio 02.48	109	53	393
					NN Ser	gio 01.23	301	46	gio 01.23	301	47	gio 01.24	301	47	170
					NY Vir	gio 01.27	356	46	gio 01.36	359	46	gio 01.44	2	46	392
					HW Vir	gio 01.28	14	38	gio 01.38	17	38	gio 01.48	20	37	441
					NSVS 07826147 II	gio 01.39	271	68	gio 01.50	273	70	gio 02.02	275	72	188
					DE CVn	gio 01.57	126	84	gio 01.57	126	83	gio 01.57	125	83	319
					V470 Cam	gio 02.28	154	31	gio 02.39	155	30	gio 02.50	156	30	138
					TrES-Her0-07621	gio 02.43	247	67	gio 03.48	242	78	gio 04.52	174	85	64
					NSVS 07826147	gio 03.35	6	86	gio 03.47	34	85	gio 03.58	52	84	188
					HAT-192-0001841	gio 03.50	279	86	gio 04.16	49	89	gio 04.43	85	84	124
					NY Vir	gio 03.53	43	37	gio 04.01	46	35	gio 04.10	48	34	393
					FI Del	gio 04.00	274	27	gio 04.01	274	27	gio 04.01	274	27	-351
gio 07-03-13	18.00	18.33	03.51	04.24	GJ 3236	gio 17.59	157	57	gio 18.28	155	55	gio 18.56	153	53	-31
					NSVS 02502726	gio 18.04	231	62	gio 19.05	224	70	gio 20.05	202	76	263
					BS UMa	gio 18.09	241	34	gio 18.52	245	41	gio 19.35	249	49	392
					NLTT11748	gio 18.10	64	50	gio 18.10	64	50	gio 18.10	64	50	-163
					HAT-225-0003429 II	gio 18.28	270	56	gio 19.02	276	62	gio 19.36	285	68	387
					V470 Cam	gio 18.32	188	65	gio 18.43	186	65	gio 18.54	183	65	134
					V608 Aur II	gio 19.11	81	81	gio 20.11	93	70	gio 21.12	100	59	147
					DE CVn	gio 19.25	233	29	gio 19.26	233	29	gio 19.26	233	29	319
					HAT-136-0003262 II	gio 19.48	253	86	gio 20.39	103	84	gio 21.30	101	75	282
					YY Gem	gio 20.17	46	76	gio 20.18	46	76	gio 20.18	46	76	264
					GK Boo	gio 20.25	240	22	gio 21.31	248	33	gio 22.37	256	45	274
					V470 Cam	gio 20.50	159	61	gio 21.01	158	61	gio 21.12	156	60	134
					NLTT11748	gio 20.57	96	20	gio 20.57	96	20	gio 20.57	96	20	-164
					NSVS 07826147 II	gio 21.04	236	20	gio 21.15	238	22	gio 21.26	239	24	191
					HW Vir	gio 21.04	302	19	gio 21.14	304	21	gio 21.25	306	22	444
					GSC 2499 246	gio 21.09	353	84	gio 22.00	62	79	gio 22.50	81	70	372
					HAT-192-0001841 II	gio 22.21	238	28	gio 22.48	241	32	gio 23.14	244	37	127
					BS Uma II	gio 22.21	262	79	gio 23.04	259	87	gio 23.46	99	85	392

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					NSVS 01031772	gio 22.37	192	49	gio 23.23	189	50	ven 00.09	187	52	113
					NSVS 07826147	gio 23.00	251	40	gio 23.12	252	42	gio 23.23	253	44	191
					GU Boo	gio 23.06	258	41	gio 23.52	264	49	ven 00.38	271	58	216
					V470 Cam	gio 23.08	148	49	gio 23.19	148	48	gio 23.30	148	47	133
					NN Ser	gio 23.14	274	24	gio 23.15	275	24	gio 23.15	275	24	176
					NY Vir	gio 23.16	315	36	gio 23.25	318	37	gio 23.33	320	38	397
					HAT-225-0003429	gio 23.35	84	62	ven 00.09	90	55	ven 00.43	95	49	386
					HW Vir	gio 23.52	345	38	ven 00.02	348	39	ven 00.13	351	39	444
					NSVS 02502726 II	ven 00.48	129	48	ven 01.48	132	40	ven 02.48	137	32	262
					NSVS 07826147 II	ven 00.57	265	61	ven 01.08	267	63	ven 01.19	268	65	191
					V470 Cam	ven 01.26	151	36	ven 01.36	152	35	ven 01.47	152	34	133
					GSC 2499 246	ven 01.34	106	40	ven 02.24	113	31	ven 03.14	119	23	371
					NY Vir	ven 01.42	3	46	ven 01.50	6	46	ven 01.59	9	46	397
					HAT-192-0001841	ven 02.03	261	67	ven 02.30	264	72	ven 02.57	267	77	128
					NN Ser	ven 02.22	321	55	ven 02.22	321	55	ven 02.22	321	55	177
					BS UMa	ven 02.33	108	55	ven 03.15	111	48	ven 03.58	115	40	391
					HW Vir	ven 02.40	36	32	ven 02.50	39	31	ven 03.01	41	30	445
					NSVS 07826147	ven 02.53	297	82	ven 03.04	308	84	ven 03.16	326	85	192
					V470 Cam	ven 03.43	160	26	ven 03.54	161	25	ven 04.05	162	24	132
					NY Vir	ven 04.07	48	34	ven 04.16	50	33	ven 04.24	52	32	398
					DE CVn	ven 04.10	111	60	ven 04.10	111	60	ven 04.10	111	60	320
ven 08-03-13	18.01	18.34	03.50	04.22	GSC 2499 246	ven 19.11	274	66	ven 20.01	288	76	ven 20.51	328	83	367
					HAT-136-0003262	ven 19.11	259	80	ven 20.02	203	89	ven 20.53	101	81	276
					NLTT11748	ven 19.13	79	39	ven 19.13	79	38	ven 19.14	79	38	-172
					BS UMa	ven 19.19	248	47	ven 20.02	252	54	ven 20.45	256	62	390
					GK Boo	ven 19.21	232	13	ven 20.27	241	23	ven 21.33	249	34	277
					V470 Cam	ven 19.48	170	64	ven 19.58	168	64	ven 20.09	166	64	128
					HAT-225-0003429	ven 20.03	296	74	ven 20.37	317	79	ven 21.11	356	81	382
					NSVS 02502726	ven 20.57	167	77	ven 21.57	140	72	ven 22.57	130	64	257
					DE CVn	ven 21.38	245	51	ven 21.39	245	51	ven 21.39	245	51	320
					CM Dra	ven 21.50	218	30	ven 22.17	220	33	ven 22.44	222	36	83
					V470 Cam	ven 22.05	151	55	ven 22.16	150	54	ven 22.27	150	53	128
					HW Vir	ven 22.17	319	30	ven 22.27	322	31	ven 22.37	324	32	448
					NSVS 07826147	ven 22.18	246	33	ven 22.29	247	35	ven 22.41	249	37	195
					GU Boo	ven 22.33	254	36	ven 23.19	260	44	sab 00.06	267	53	220
					V608 Aur	ven 22.40	117	32	ven 23.40	124	22	sab 00.40	132	13	41
					NY Vir	ven 23.31	320	38	ven 23.39	323	39	ven 23.48	325	40	402
					BS Uma II	ven 23.31	105	88	sab 00.14	98	80	sab 00.56	100	72	390
					GSC 2499 246	ven 23.35	91	61	sab 00.25	98	52	sab 01.16	105	43	366
					NN Ser	sab 00.13	286	36	sab 00.13	286	36	sab 00.14	286	36	183
					NSVS 07826147 II	sab 00.14	260	54	sab 00.26	261	56	sab 00.37	263	58	195
					HAT-192-0001841	sab 00.17	251	48	sab 00.44	254	53	sab 01.10	256	58	131
					V470 Cam	sab 00.23	149	42	sab 00.34	149	41	sab 00.45	149	40	127
					HW Vir	sab 01.05	9	39	sab 01.15	12	39	sab 01.25	15	38	448
					NSVS 01031772	sab 01.07	182	52	sab 01.53	179	53	sab 02.39	175	52	111
					HAT-225-0003429 II	sab 01.11	100	43	sab 01.44	104	37	sab 02.18	109	31	381
					NY Vir	sab 01.56	9	46	sab 02.05	12	45	sab 02.14	15	45	402
					NSVS 07826147	sab 02.11	279	75	sab 02.22	283	77	sab 02.34	288	79	195
					V470 Cam	sab 02.41	156	30	sab 02.52	157	29	sab 03.02	157	28	127
					NN Ser	sab 03.20	348	60	sab 03.21	348	60	sab 03.21	348	60	184
					HW Vir	sab 03.53	54	22	sab 04.03	56	21	sab 04.13	58	19	449
					NSVS 07826147 II	sab 04.07	67	81	sab 04.19	73	79	sab 04.30	77	77	196
sab 09-03-13	18.02	18.35	03.48	04.21	NSVS 02502726 II	sab 17.06	232	54	sab 18.06	230	63	sab 19.06	222	71	253
					V471 Tau	sab 18.30	69	46	sab 18.30	69	46	sab 18.30	69	46	-171
					HAT-136-0003262 II	sab 18.34	259	74	sab 19.25	258	83	sab 20.16	111	87	269
					PTFEB11.441	sab 18.39	124	26	sab 18.39	124	26	sab 18.39	124	26	-319
					V470 Cam	sab 18.45	183	65	sab 18.56	181	65	sab 19.06	178	65	123
					NSVS 01031772	sab 18.48	193	39	sab 19.33	194	41	sab 20.19	194	43	109
					NLTT11748	sab 20.17	91	26	sab 20.17	91	26	sab 20.17	91	26	-180
					BS UMa	sab 20.29	255	60	sab 21.12	258	67	sab 21.54	261	75	388
					V470 Cam	sab 21.03	156	60	sab 21.13	155	59	sab 21.24	154	58	122
					YY Gem II	sab 21.09	73	67	sab 21.09	73	67	sab 21.09	73	67	250
					NY Vir	sab 21.20	291	19	sab 21.29	293	21	sab 21.37	295	22	406
					NSVS 07826147	sab 21.36	241	26	sab 21.47	243	28	sab 21.58	244	30	198
					GSC 2499 246	sab 21.36	49	82	sab 22.26	77	73	sab 23.17	88	64	362
					HAT-225-0003429 II	sab 21.39	36	80	sab 22.13	60	75	sab 22.47	74	69	377
					GU Boo	sab 22.01	250	31	sab 22.47	256	39	sab 23.33	262	47	224
					HAT-192-0001841	sab 22.31	240	31	sab 22.58	243	35	sab 23.24	246	40	134
					V470 Cam	sab 23.20	148	47	sab 23.31	148	46	sab 23.42	148	45	122

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					HW Vir	sab 23.29	340	37	sab 23.40	343	38	sab 23.50	346	38	452
					NSVS 07826147 II	sab 23.32	255	47	sab 23.43	257	49	sab 23.55	258	51	199
					HAT-196-0006238	sab 23.38	240	22	sab 23.38	241	22	sab 23.38	241	22	-44
					NY Vir	sab 23.45	326	40	sab 23.54	328	41	dom 00.03	331	42	407
					NSVS 02502726	sab 23.49	128	56	dom 00.49	130	47	dom 01.49	133	39	251
					DE CVn	sab 23.51	250	75	sab 23.52	250	75	sab 23.52	250	75	321
					BS Uma II	dom 00.41	99	74	dom 01.23	102	66	dom 02.06	106	58	388
					NN Ser	dom 01.11	301	46	dom 01.12	301	47	dom 01.12	301	47	190
					NSVS 07826147	dom 01.28	271	68	dom 01.40	273	70	dom 01.51	276	72	199
					GJ 3236	dom 01.31	169	23	dom 01.59	172	22	dom 02.28	175	22	-44
					V470 Cam	dom 01.38	152	34	dom 01.49	153	34	dom 02.00	153	33	121
					GSC 2499 246	dom 02.00	111	34	dom 02.50	117	26	dom 03.41	123	17	361
					NY Vir	dom 02.11	16	45	dom 02.20	19	44	dom 02.28	22	44	407
					HAT-192-0001841 II	dom 02.13	263	70	dom 02.40	266	75	dom 03.06	270	80	135
					HW Vir	dom 02.18	32	34	dom 02.28	35	33	dom 02.38	37	32	452
					NSVS 07826147 II	dom 03.25	10	86	dom 03.36	37	85	dom 03.48	54	84	199
					V470 Cam	dom 03.56	162	24	dom 04.07	163	24	dom 04.17	164	23	120
					NN Ser	dom 04.19	19	60	dom 04.19	19	60	dom 04.19	19	60	191
dom 10-03-13	18.04	18.36	03.46	04.19	BS Uma II	dom 17.27	238	29	dom 18.10	242	36	dom 18.53	246	43	387
					HAT-136-0003262	dom 17.57	257	68	dom 18.48	259	77	dom 19.39	251	87	263
					HAT-225-0003429 II	dom 18.07	269	54	dom 18.41	275	60	dom 19.15	282	66	373
					NLTT11748	dom 18.33	72	44	dom 18.33	72	44	dom 18.34	72	44	-188
					BX Tri	dom 19.02	108	33	dom 19.53	114	24	dom 20.44	121	15	-279
					V471 Tau	dom 19.31	82	34	dom 19.31	82	34	dom 19.31	82	34	-179
					GSC 2499 246	dom 19.37	282	73	dom 20.27	309	81	dom 21.18	31	83	357
					HAT-133-0002525	dom 19.58	104	72	dom 21.07	108	60	dom 22.16	113	48	132
					NSVS 02502726 II	dom 19.58	200	77	dom 20.58	161	77	dom 21.58	138	71	247
					V470 Cam	dom 20.00	166	64	dom 20.11	164	63	dom 20.21	162	62	117
					GJ 3236	dom 20.02	151	46	dom 20.30	152	43	dom 20.58	152	41	-49
					V608 Aur II	dom 20.27	97	65	dom 21.28	104	54	dom 22.28	110	43	123
					V912 Per	dom 20.52	118	31	dom 20.53	118	31	dom 20.53	118	31	-140
					NSVS 07826147	dom 20.53	237	20	dom 21.05	238	22	dom 21.16	240	24	202
					NSVS 01031772	dom 21.18	194	46	dom 22.04	192	48	dom 22.50	191	50	106
					GU Boo	dom 21.28	246	26	dom 22.14	252	34	dom 23.01	258	42	228
					NY Vir	dom 21.35	295	22	dom 21.43	297	24	dom 21.52	298	25	411
					BS UMa	dom 21.39	260	73	dom 22.22	262	81	dom 23.04	241	89	386
					HW Vir	dom 21.54	315	28	dom 22.04	318	29	dom 22.14	320	31	455
					V470 Cam	dom 22.18	150	53	dom 22.28	149	52	dom 22.39	149	51	116
					NSVS 07826147 II	dom 22.50	251	40	dom 23.01	252	42	dom 23.12	253	44	202
					NN Ser	dom 23.03	274	24	dom 23.03	275	24	dom 23.03	275	25	196
					HAT-225-0003429	dom 23.14	82	63	dom 23.48	88	57	lun 00.22	94	51	372
					NY Vir	lun 00.00	332	42	lun 00.09	334	43	lun 00.17	337	44	412
					GSC 2499 246	lun 00.01	96	55	lun 00.52	103	46	lun 01.42	109	37	356
					HAT-192-0001841 II	lun 00.27	253	51	lun 00.54	256	56	lun 01.20	258	61	138
					V470 Cam	lun 00.35	149	40	lun 00.46	150	39	lun 00.57	150	38	115
					HW Vir	lun 00.42	4	39	lun 00.52	8	39	lun 01.03	11	39	456
					NSVS 07826147	lun 00.46	265	61	lun 00.58	267	63	lun 01.09	268	65	202
					HAT-136-0003262 II	lun 01.44	124	29	lun 02.35	129	21	lun 03.26	136	14	261
					BS Uma II	lun 01.51	105	60	lun 02.33	109	53	lun 03.16	113	45	386
					DE CVn	lun 02.05	115	80	lun 02.05	115	80	lun 02.05	114	80	322
					NN Ser	lun 02.10	321	55	lun 02.10	321	55	lun 02.11	321	55	197
					NY Vir	lun 02.26	22	44	lun 02.34	25	43	lun 02.43	28	42	412
					FP Sge	lun 02.37	261	20	lun 02.38	261	20	lun 02.38	261	20	-303
					NSVS 02502726	lun 02.41	137	31	lun 03.41	143	24	lun 04.41	149	18	245
					NSVS 07826147 II	lun 02.43	298	82	lun 02.54	310	84	lun 03.05	329	85	203
					V470 Cam	lun 02.53	157	28	lun 03.04	158	27	lun 03.15	159	27	115
					OT Lyr	lun 03.23	270	46	lun 03.23	270	46	lun 03.23	270	46	-171
					HW Vir	lun 03.30	51	24	lun 03.40	53	23	lun 03.51	55	21	456
					G179-55	lun 04.07	119	83	lun 04.07	119	83	lun 04.07	119	83	168
lun 11-03-13	18.05	18.37	03.45	04.17	GSC 1941 1746	lun 15.07	260	27	lun 20.34	20	72	mar 02.01	108	17	327
					HAT-136-0003262 II	lun 17.20	255	62	lun 18.11	258	71	lun 19.02	259	81	257
					GSC 2499 246	lun 17.38	262	51	lun 18.28	269	61	lun 19.19	279	70	352
					BX Tri	lun 18.09	101	41	lun 19.00	108	32	lun 19.51	115	23	-285
					BS Uma II	lun 18.37	245	42	lun 19.20	249	49	lun 20.03	253	56	384
					HAT-145-0001586	lun 18.52	228	24	lun 19.58	235	34	lun 21.04	241	44	304
					V470 Cam	lun 18.57	179	65	lun 19.08	176	65	lun 19.19	174	65	111
					DE CVn	lun 19.33	235	32	lun 19.34	236	32	lun 19.34	236	32	322
					NLTT11748	lun 19.37	86	32	lun 19.37	86	32	lun 19.37	86	32	-196
					HAT-225-0003429	lun 19.42	292	72	lun 20.16	310	78	lun 20.50	343	81	367

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					V449 Per	lun 19.44	111	32	lun 19.44	111	32	lun 19.45	111	32	-230
					V471 Tau	lun 20.32	94	22	lun 20.32	94	22	lun 20.32	94	22	-188
					GU Boo	lun 20.56	242	21	lun 21.42	249	29	lun 22.28	255	37	232
					V470 Cam	lun 21.15	154	58	lun 21.26	153	57	lun 21.37	152	57	110
					NY Vir	lun 21.49	299	25	lun 21.58	300	27	lun 22.07	302	28	416
					YY Gem	lun 22.00	86	56	lun 22.00	86	56	lun 22.01	87	56	235
					GSC 2499 246	lun 22.02	71	76	lun 22.53	85	67	lun 23.43	94	58	351
					NSVS 07826147 II	lun 22.07	246	33	lun 22.19	248	35	lun 22.30	249	37	206
					HAT-192-0001841 II	lun 22.41	242	34	lun 23.07	245	38	lun 23.34	248	43	141
					BS UMa	lun 22.49	258	87	lun 23.32	99	85	mar 00.14	98	77	384
					NSVS 02502726 II	lun 22.50	130	63	lun 23.50	128	54	mar 00.50	130	46	240
					HW Vir	lun 23.07	336	36	lun 23.17	339	37	lun 23.27	342	38	459
					V470 Cam	lun 23.33	148	46	lun 23.43	148	44	lun 23.54	148	43	110
					NSVS 01031772	lun 23.48	187	51	mar 00.34	184	52	mar 01.20	180	53	104
					NN Ser	mar 00.01	286	36	mar 00.01	286	36	mar 00.02	286	36	203
					NSVS 07826147	mar 00.04	260	54	mar 00.15	262	56	mar 00.27	263	58	206
					NY Vir	mar 00.15	338	44	mar 00.23	340	44	mar 00.32	343	45	417
					HAT-225-0003429 II	mar 00.49	99	45	mar 01.23	103	39	mar 01.57	108	33	366
					HAT-136-0003262	mar 01.07	120	34	mar 01.58	126	26	mar 02.49	132	19	255
					V470 Cam	mar 01.50	153	33	mar 02.01	154	32	mar 02.12	155	31	109
					HW Vir	mar 01.55	28	35	mar 02.05	31	34	mar 02.15	33	33	459
					CM Dra II	mar 01.56	223	63	mar 02.23	220	67	mar 02.50	214	70	88
					OT Lyr	mar 02.00	258	32	mar 02.00	258	32	mar 02.00	258	32	-167
					NSVS 07826147 II	mar 02.00	280	75	mar 02.12	284	77	mar 02.23	288	80	206
					HAT-192-0001841	mar 02.23	265	73	mar 02.50	269	78	mar 03.16	274	83	142
					NY Vir	mar 02.40	28	42	mar 02.49	31	41	mar 02.57	33	41	417
					BS Uma II	mar 03.01	111	47	mar 03.43	116	40	mar 04.26	120	33	384
					NN Ser	mar 03.08	348	60	mar 03.09	348	60	mar 03.09	348	60	204
					FI Del	mar 03.48	275	28	mar 03.48	275	28	mar 03.48	275	28	-331
					NSVS 07826147	mar 03.57	68	81	mar 04.08	74	79	mar 04.20	78	77	206
mar 12-03-13	18.06	18.39	03.43	04.16	BX Tri	mar 17.16	94	51	mar 18.07	101	41	mar 18.58	108	32	-292
					NSVS 01031772	mar 17.29	192	36	mar 18.14	193	38	mar 19.00	194	40	102
					NSVS 06507557	mar 17.47	93	36	mar 18.32	100	28	mar 19.17	107	20	-348
					V608 Aur	mar 18.15	87	77	mar 19.15	96	65	mar 20.15	103	54	10
					GSC 1941 1746 II	mar 18.19	301	62	mar 23.46	87	41	mer 05.13	141	-13	320
					V449 Per	mar 18.26	101	45	mar 18.27	101	45	mar 18.27	101	45	-237
					NSVS 02502726	mar 18.59	221	72	mar 19.59	194	77	mar 21.00	156	76	235
					BS Uma II	mar 19.47	252	54	mar 20.30	256	62	mar 21.12	259	70	382
					GSC 2499 246	mar 20.03	297	79	mar 20.54	1	84	mar 21.44	64	79	346
					V470 Cam	mar 20.12	162	63	mar 20.23	160	62	mar 20.34	159	61	105
					GU Boo	mar 20.23	239	16	mar 21.09	245	24	mar 21.56	251	32	236
					HAT-192-0001841 II	mar 20.54	230	18	mar 21.21	234	22	mar 21.48	237	26	145
					HAT-225-0003429 II	mar 21.18	26	81	mar 21.52	55	76	mar 22.25	71	71	362
					NSVS 07826147 II	mar 21.25	242	27	mar 21.36	243	29	mar 21.48	244	30	209
					HW Vir	mar 21.31	312	26	mar 21.42	314	28	mar 21.52	317	29	462
					DE CVn	mar 21.46	247	55	mar 21.47	247	55	mar 21.47	247	55	323
					NY Vir	mar 22.04	303	28	mar 22.13	305	30	mar 22.21	307	31	421
					V470 Cam	mar 22.30	149	51	mar 22.41	149	50	mar 22.52	148	49	104
					NSVS 07826147	mar 23.22	255	47	mar 23.33	257	49	mar 23.44	258	51	209
					BS UMa	mar 23.59	98	79	mer 00.41	100	72	mer 01.24	103	64	382
					HW Vir	mer 00.19	360	39	mer 00.30	3	39	mer 00.40	6	39	462
					GSC 2499 246	mer 00.28	101	49	mer 01.18	107	39	mer 02.08	113	31	345
					NY Vir	mer 00.29	344	45	mer 00.38	347	45	mer 00.47	350	46	421
					HAT-136-0003262 II	mer 00.30	117	40	mer 01.21	122	31	mer 02.12	128	23	248
					HAT-192-0001841	mer 00.37	255	55	mer 01.03	257	59	mer 01.30	260	64	145
					V470 Cam	mer 00.48	150	38	mer 00.59	151	37	mer 01.09	151	36	104
					NN Ser	mer 01.00	301	46	mer 01.00	301	47	mer 01.00	301	47	210
					NSVS 07826147 II	mer 01.18	271	68	mer 01.29	273	70	mer 01.41	276	73	209
					NSVS 02502726 II	mer 01.42	133	38	mer 02.42	138	30	mer 03.43	144	23	234
					NSVS 01031772	mer 02.19	176	52	mer 03.05	173	51	mer 03.50	170	50	101
					HAT-225-0003429	mer 02.25	112	27	mer 02.59	116	21	mer 03.32	121	16	361
					GK Boo	mer 02.33	35	83	mer 03.39	79	73	mer 04.45	92	60	290
					NY Vir	mer 02.55	34	40	mer 03.03	36	40	mer 03.12	39	39	422
					V470 Cam	mer 03.05	159	27	mer 03.16	160	26	mer 03.27	161	25	103
					HW Vir	mer 03.08	47	27	mer 03.18	50	25	mer 03.28	52	24	463
					NSVS 07826147	mer 03.15	13	86	mer 03.26	39	85	mer 03.37	55	83	210
					NN Ser	mer 04.07	19	60	mer 04.07	19	60	mer 04.08	19	60	210
mer 13-03-13	18.07	18.40	03.41	04.14	HAT-225-0003429 II	mer 17.46	267	52	mer 18.20	273	58	mer 18.54	280	65	357
					GSC 2499 246	mer 18.04	266	58	mer 18.55	275	67	mer 19.45	290	76	341

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					V912 Per	mer 18.11	101	58	mer 18.11	101	58	mer 18.12	101	58	-162
					NLTT11748	mer 18.57	80	38	mer 18.57	80	38	mer 18.57	80	38	-212
					V470 Cam	mer 19.10	174	65	mer 19.20	172	65	mer 19.31	169	64	99
					NSVS 01031772	mer 19.59	194	43	mer 20.45	194	45	mer 21.31	193	47	99
					NSVS 07826147 II	mer 20.43	237	21	mer 20.54	238	22	mer 21.06	240	24	212
					BS Uma II	mer 20.57	258	68	mer 21.40	261	75	mer 22.22	262	83	380
					V470 Cam	mer 21.27	152	57	mer 21.38	151	56	mer 21.49	151	55	99
					V608 Aur II	mer 21.43	107	49	mer 22.44	113	38	mer 23.44	120	28	99
					NSVS 02502726	mer 21.51	137	70	mer 22.51	130	62	mer 23.52	129	53	229
					GJ 3236	mer 22.04	155	34	mer 22.32	157	32	mer 23.01	159	30	-67
					NY Vir	mer 22.19	307	31	mer 22.27	309	32	mer 22.36	311	34	425
					GSC 2499 246	mer 22.29	82	70	mer 23.19	91	61	gio 00.09	99	51	340
					NSVS 07826147	mer 22.39	251	40	mer 22.51	252	42	mer 23.02	254	44	213
					HW Vir	mer 22.44	332	35	mer 22.54	334	36	mer 23.04	337	37	465
					HAT-192-0001841	mer 22.50	244	37	mer 23.17	247	41	mer 23.44	250	46	148
					NN Ser	mer 22.51	274	24	mer 22.51	275	24	mer 22.51	275	25	215
					YY Gem II	mer 22.52	96	45	mer 22.52	96	45	mer 22.52	96	45	220
					HAT-225-0003429	mer 22.53	80	65	mer 23.27	87	59	gio 00.01	93	53	356
					CM Dra	mer 23.36	226	46	gio 00.03	227	49	gio 00.30	227	53	90
					V470 Cam	mer 23.45	148	44	mer 23.56	149	42	gio 00.07	149	41	98
					HAT-136-0003262	mer 23.53	113	45	gio 00.44	118	37	gio 01.35	124	29	242
					DE CVn	mer 23.59	247	79	gio 00.00	247	79	gio 00.00	247	79	323
					NSVS 07826147 II	gio 00.36	265	61	gio 00.47	267	63	gio 00.59	269	65	213
					NY Vir	gio 00.44	350	46	gio 00.53	353	46	gio 01.01	356	46	426
					BS UMa	gio 01.09	103	66	gio 01.51	106	58	gio 02.34	110	51	379
					GK Boo	gio 01.29	301	80	gio 02.35	43	83	gio 03.41	80	72	293
					HW Vir	gio 01.32	23	36	gio 01.42	26	36	gio 01.53	29	35	465
					NN Ser	gio 01.58	321	55	gio 01.59	321	55	gio 01.59	321	55	216
					V470 Cam	gio 02.03	155	31	gio 02.14	155	30	gio 02.24	156	29	97
					NSVS 07826147	gio 02.32	299	82	gio 02.44	312	84	gio 02.55	332	85	213
					HAT-192-0001841 II	gio 02.33	267	77	gio 02.59	271	82	gio 03.26	281	87	149
					NY Vir	gio 03.09	39	38	gio 03.18	42	37	gio 03.27	44	36	426
gio 14-03-13	18.08	18.41	03.39	04.12	BS UMa	gio 17.55	242	37	gio 18.38	246	44	gio 19.21	250	51	378
					NSVS 02502726 II	gio 18.00	229	65	gio 19.00	218	73	gio 20.01	188	77	224
					V470 Cam	gio 18.07	188	65	gio 18.18	185	65	gio 18.28	183	65	93
					YY Gem II	gio 18.24	319	77	gio 18.24	319	77	gio 18.25	319	77	213
					HAT-225-0003429	gio 19.21	289	70	gio 19.55	304	76	gio 20.29	332	80	352
					NLTT11748	gio 20.00	92	25	gio 20.01	92	25	gio 20.01	92	25	-220
					V470 Cam	gio 20.25	159	61	gio 20.35	157	61	gio 20.46	156	60	93
					GSC 2499 246	gio 20.30	331	84	gio 21.20	53	81	gio 22.11	78	72	335
					HAT-192-0001841	gio 21.04	232	21	gio 21.31	236	25	gio 21.57	239	29	151
					HW Vir	gio 21.09	309	24	gio 21.19	311	26	gio 21.29	313	27	468
					NSVS 07826147	gio 21.57	246	33	gio 22.08	248	35	gio 22.20	249	37	216
					BS Uma II	gio 22.07	262	81	gio 22.50	236	89	gio 23.32	98	83	377
					NSVS 01031772	gio 22.29	191	50	gio 23.15	188	51	ven 00.01	185	52	96
					NY Vir	gio 22.33	311	34	gio 22.42	314	35	gio 22.50	316	36	430
					V470 Cam	gio 22.42	148	49	gio 22.53	148	48	gio 23.04	148	47	92
					TrES-Her0-07621	gio 23.00	236	35	ven 00.05	241	46	ven 01.10	246	56	87
					HAT-145-0001586	gio 23.04	248	66	ven 00.10	244	78	ven 01.16	175	86	306
					HAT-136-0003262 II	gio 23.16	110	51	ven 00.07	115	42	ven 00.58	120	34	235
					NN Ser	gio 23.49	286	36	gio 23.50	286	36	gio 23.50	286	36	222
					NSVS 07826147 II	gio 23.53	260	54	ven 00.05	262	56	ven 00.16	263	58	216
					HW Vir	gio 23.57	355	39	ven 00.07	358	39	ven 00.17	1	39	468
					GK Boo	ven 00.25	277	70	ven 01.31	306	81	ven 02.37	50	82	295
					HAT-225-0003429 II	ven 00.28	97	47	ven 01.02	102	40	ven 01.36	106	34	350
					NSVS 02502726	ven 00.43	130	45	ven 01.43	134	37	ven 02.44	139	29	223
					HAT-192-0001841 II	ven 00.46	256	58	ven 01.13	259	63	ven 01.40	262	68	152
					GSC 2499 246	ven 00.54	105	42	ven 01.44	111	33	ven 02.35	117	25	334
					NY Vir	ven 00.59	357	46	ven 01.07	0	46	ven 01.16	3	46	430
					V470 Cam	ven 01.00	151	36	ven 01.11	152	35	ven 01.22	152	34	92
					NSVS 07826147	ven 01.50	280	76	ven 02.01	284	78	ven 02.13	289	80	216
					DE CVn	ven 02.13	111	76	ven 02.13	111	76	ven 02.13	111	75	324
					BS UMa	ven 02.19	109	53	ven 03.01	113	45	ven 03.44	117	38	377
					HW Vir	ven 02.45	44	28	ven 02.55	46	27	ven 03.05	49	26	469
					NN Ser	ven 02.57	348	60	ven 02.57	348	60	ven 02.57	348	60	223
					V470 Cam	ven 03.18	161	25	ven 03.29	161	25	ven 03.39	162	24	91
					NY Vir	ven 03.24	44	36	ven 03.33	47	35	ven 03.41	49	34	430
					NSVS 07826147 II	ven 03.46	69	81	ven 03.58	74	79	ven 04.09	78	76	217
ven 15-03-13	18.09	18.42	03.37	04.10	NLTT11748	ven 18.17	73	44	ven 18.17	73	44	ven 18.17	73	44	-227

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					GSC 2499 246	ven 18.31	272	64	ven 19.21	284	73	ven 20.12	313	82	330
					BS UMa	ven 19.05	249	49	ven 19.48	253	57	ven 20.30	257	64	375
					V470 Cam	ven 19.22	170	64	ven 19.33	167	64	ven 19.44	165	63	87
					V608 Aur	ven 19.31	99	60	ven 20.31	106	49	ven 21.32	113	39	-16
					DE CVn	ven 19.41	238	36	ven 19.42	238	36	ven 19.42	238	36	324
					NSVS 02502726 II	ven 20.52	154	76	ven 21.52	135	69	ven 22.53	129	61	218
					HAT-225-0003429 II	ven 20.57	14	81	ven 21.30	49	78	ven 22.04	67	72	346
					NSVS 07826147	ven 21.15	242	27	ven 21.26	243	29	ven 21.37	245	31	219
					CM Dra II	ven 21.15	218	29	ven 21.43	220	32	ven 22.10	222	36	93
					V470 Cam	ven 21.40	151	55	ven 21.50	150	54	ven 22.01	150	53	87
					HW Vir	ven 22.21	327	34	ven 22.32	330	35	ven 22.42	333	36	471
					HAT-136-0003262	ven 22.39	108	57	ven 23.30	112	48	sab 00.21	117	39	229
					NY Vir	ven 22.48	316	36	ven 22.56	319	37	ven 23.05	321	38	434
					GSC 2499 246	ven 22.55	89	64	ven 23.46	96	54	sab 00.36	103	45	329
					HAT-192-0001841 II	ven 23.00	246	40	ven 23.27	249	44	ven 23.53	252	49	155
					NSVS 07826147 II	ven 23.11	256	47	ven 23.23	257	49	ven 23.34	258	51	219
					BS Uma II	ven 23.17	99	85	ven 23.59	98	77	sab 00.42	101	69	374
					GK Boo	ven 23.21	266	58	sab 00.27	279	71	sab 01.33	311	82	298
					YY Gem	ven 23.43	104	34	ven 23.43	104	34	ven 23.44	105	34	204
					V470 Cam	ven 23.57	149	42	sab 00.08	149	41	sab 00.19	150	40	86
					NN Ser	sab 00.48	301	46	sab 00.48	301	47	sab 00.49	301	47	228
					NSVS 01031772	sab 01.00	181	53	sab 01.46	177	52	sab 02.31	174	52	93
					NSVS 07826147	sab 01.08	272	69	sab 01.19	274	71	sab 01.30	276	73	220
					HW Vir	sab 01.09	19	37	sab 01.20	22	37	sab 01.30	25	36	471
					NY Vir	sab 01.13	4	46	sab 01.22	7	46	sab 01.31	10	46	434
					TrES-Her0-07621	sab 01.54	247	65	sab 02.59	245	76	sab 04.04	201	85	90
					HAT-225-0003429	sab 02.04	111	29	sab 02.37	115	23	sab 03.11	120	17	345
					V470 Cam	sab 02.15	156	29	sab 02.26	157	29	sab 02.37	158	28	85
					HAT-192-0001841	sab 02.42	270	80	sab 03.09	276	85	sab 03.36	354	89	155
					NSVS 07826147 II	sab 03.04	17	86	sab 03.15	42	85	sab 03.27	57	83	220
					NY Vir	sab 03.39	49	34	sab 03.47	51	32	sab 03.56	53	31	435
					NN Ser	sab 03.55	19	60	sab 03.56	19	60	sab 03.56	19	60	229
					NSVS 14256825	sab 03.59	291	28	sab 04.10	293	30	sab 04.20	295	31	-309
sab 16-03-13	18.11	18.44	03.36	04.09	V470 Cam	sab 18.19	183	65	sab 18.30	181	65	sab 18.41	178	65	81
					BX Tri	sab 18.21	105	36	sab 19.12	112	27	sab 20.03	119	18	-317
					NSVS 01031772	sab 18.40	194	40	sab 19.26	194	42	sab 20.12	194	44	92
					YY Gem	sab 19.15	23	79	sab 19.16	23	79	sab 19.16	23	79	198
					NLTT11748	sab 19.20	86	31	sab 19.21	86	31	sab 19.21	86	31	-235
					BS UMa	sab 20.15	256	62	sab 20.58	259	70	sab 21.40	262	78	372
					NSVS 07826147	sab 20.32	237	21	sab 20.44	238	23	sab 20.55	240	24	222
					V470 Cam	sab 20.37	156	60	sab 20.48	155	59	sab 20.59	154	58	81
					HW Vir	sab 20.46	305	22	sab 20.56	308	23	sab 21.06	310	25	473
					GSC 2499 246	sab 20.56	34	83	sab 21.47	73	75	sab 22.07	86	66	324
					HAT-192-0001841 II	sab 21.14	235	23	sab 21.41	238	27	sab 22.07	241	32	158
					DE CVn	sab 21.54	248	59	sab 21.55	248	59	sab 21.55	248	59	324
					HAT-136-0003262 II	sab 22.02	105	63	sab 22.53	109	54	sab 23.44	114	45	222
					GK Boo	sab 22.17	258	47	sab 23.23	267	60	dom 00.29	280	72	300
					NSVS 07826147 II	sab 22.29	251	40	sab 22.40	252	42	sab 22.52	254	44	222
					HAT-225-0003429	sab 22.32	77	67	sab 23.06	85	61	sab 23.40	91	54	340
					NN Ser	sab 22.39	274	24	sab 22.39	275	24	sab 22.40	275	25	234
					V470 Cam	sab 22.55	148	47	sab 23.05	148	46	sab 23.16	148	45	80
					V608 Aur II	sab 23.00	116	33	dom 00.00	123	24	dom 01.00	131	15	74
					NY Vir	sab 23.02	321	39	sab 23.11	324	40	sab 23.20	326	41	438
					HW Vir	sab 23.34	350	39	sab 23.44	353	39	sab 23.54	357	39	474
					NSVS 02502726 II	sab 23.44	129	52	dom 00.45	131	44	dom 01.45	135	36	211
					GJ 3236	dom 00.07	164	26	dom 00.35	167	24	dom 01.03	169	23	-84
					NSVS 07826147	dom 00.25	265	61	dom 00.37	267	64	dom 00.48	269	66	223
					HAT-196-0006238	dom 00.26	250	34	dom 00.26	250	34	dom 00.26	250	34	-13
					BS Uma II	dom 00.27	100	71	dom 01.09	103	64	dom 01.52	107	56	372
					HAT-192-0001841	dom 00.56	258	61	dom 01.23	261	66	dom 01.49	264	71	158
					V470 Cam	dom 01.12	152	34	dom 01.23	153	33	dom 01.34	153	32	80
					GSC 2499 246	dom 01.20	109	36	dom 02.11	115	28	dom 03.01	122	19	323
					NY Vir	dom 01.28	10	45	dom 01.37	13	45	dom 01.45	16	45	438
					NN Ser	dom 01.46	321	55	dom 01.47	321	55	dom 01.47	321	55	235
					NSVS 07826147 II	dom 02.22	300	83	dom 02.33	313	84	dom 02.45	335	86	223
					HW Vir	dom 02.22	40	30	dom 02.32	43	29	dom 02.43	45	28	474
					MR Del	dom 02.33	273	11	dom 03.25	282	21	dom 04.18	293	30	-322
					V470 Cam	dom 03.30	162	24	dom 03.41	163	24	dom 03.52	164	23	79
					FI Del	dom 03.35	276	29	dom 03.35	277	29	dom 03.35	277	29	-308
					NSVS 14256825	dom 03.50	290	27	dom 04.00	292	29	dom 04.10	294	30	-304

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					NY Vir	dom 03.53	54	31	dom 04.02	56	30	dom 04.11	57	28	439
dom 17-03-13	18.12	18.45	03.34	04.07	V608 Aur II	dom 17.19	290	85	dom 18.19	75	83	dom 19.19	91	72	68
					BX Tri	dom 17.28	99	45	dom 18.19	106	35	dom 19.10	112	26	-323
					GJ 3236	dom 18.37	152	51	dom 19.06	152	48	dom 19.34	151	46	-88
					GSC 2499 246	dom 18.57	279	71	dom 19.48	299	79	dom 20.38	9	84	318
					HAT-225-0003429	dom 19.00	286	69	dom 19.34	299	75	dom 20.08	322	79	335
					V912 Per	dom 19.13	110	44	dom 19.13	110	44	dom 19.14	110	44	-193
					V470 Cam	dom 19.34	166	63	dom 19.45	163	63	dom 19.56	162	62	75
					NSVS 02502726	dom 19.53	186	78	dom 20.54	150	75	dom 21.54	133	68	206
					NY Vir	dom 20.52	292	20	dom 21.00	293	21	dom 21.09	295	23	442
					NSVS 01031772	dom 21.10	193	47	dom 21.56	192	49	dom 22.42	190	50	89
					GK Boo	dom 21.13	251	37	dom 22.19	259	48	dom 23.25	268	61	302
					HAT-136-0003262	dom 21.25	103	69	dom 22.16	106	60	dom 23.07	111	51	215
					BS UMa	dom 21.25	261	76	dom 22.08	262	83	dom 22.50	113	88	369
					NSVS 07826147 II	dom 21.47	247	34	dom 21.58	248	36	dom 22.09	249	37	225
					V470 Cam	dom 21.52	150	53	dom 22.03	149	52	dom 22.14	149	51	75
					HW Vir	dom 21.59	323	32	dom 22.09	326	33	dom 22.19	329	34	476
					CU Cnc	dom 22.31	69	49	dom 23.31	82	38	lun 00.31	92	27	305
					HAT-192-0001841	dom 23.10	248	43	dom 23.37	251	47	lun 00.03	253	52	161
					NY Vir	dom 23.17	327	41	dom 23.26	329	42	dom 23.34	332	42	442
					GSC 2499 246	dom 23.22	94	57	lun 00.12	101	48	lun 01.02	107	39	317
					NN Ser	dom 23.38	286	36	dom 23.38	286	36	dom 23.38	286	36	240
					NSVS 07826147	dom 23.43	260	54	dom 23.54	262	56	lun 00.06	263	59	226
					HAT-225-0003429 II	lun 00.07	96	48	lun 00.41	101	42	lun 01.15	105	36	334
					DE CVn	lun 00.07	238	83	lun 00.08	238	83	lun 00.08	238	83	324
					V470 Cam	lun 00.10	150	40	lun 00.21	150	39	lun 00.31	150	38	74
					YY Gem II	lun 00.34	112	24	lun 00.35	113	24	lun 00.35	113	23	188
					HW Vir	lun 00.47	14	38	lun 00.57	18	38	lun 01.07	21	37	477
					BS Uma II	lun 01.37	106	58	lun 02.19	110	51	lun 03.02	114	43	369
					NSVS 07826147 II	lun 01.39	281	76	lun 01.51	285	78	lun 02.02	290	80	226
					NY Vir	lun 01.43	17	45	lun 01.51	20	44	lun 02.00	23	44	442
					V470 Cam	lun 02.27	157	28	lun 02.38	158	27	lun 02.49	159	27	73
					NSVS 02502726 II	lun 02.36	139	28	lun 03.37	145	22	lun 04.37	152	16	204
					NN Ser	lun 02.45	348	60	lun 02.45	348	60	lun 02.46	348	60	241
					HAT-192-0001841 II	lun 02.52	273	83	lun 03.19	293	88	lun 03.46	78	87	162
					NSVS 07826147	lun 03.36	69	80	lun 03.47	75	78	lun 03.59	79	76	226
					NSVS 14256825	lun 03.40	288	26	lun 03.50	290	28	lun 04.01	292	29	-298
lun 18-03-13	18.13	18.46	03.32	04.05	BS Uma II	lun 18.23	247	44	lun 19.06	251	51	lun 19.48	254	59	367
					V470 Cam	lun 18.32	178	65	lun 18.42	176	65	lun 18.53	173	65	69
					NLTT11748	lun 18.40	80	37	lun 18.41	80	37	lun 18.41	80	37	-250
					HAT-133-0002525	lun 19.18	104	74	lun 20.27	107	61	lun 21.36	113	49	70
					YY Gem II	lun 20.07	64	71	lun 20.07	64	71	lun 20.08	64	71	182
					GK Boo	lun 20.09	243	26	lun 21.15	252	38	lun 22.21	260	50	304
					HW Vir	lun 20.23	302	20	lun 20.33	304	21	lun 20.44	307	23	478
					HAT-225-0003429 II	lun 20.35	1	81	lun 21.09	41	79	lun 21.43	63	74	329
					V608 Aur	lun 20.47	109	44	lun 21.48	116	34	lun 22.48	123	24	-41
					HAT-136-0003262 II	lun 20.47	101	75	lun 21.38	104	65	lun 22.29	108	56	208
					V470 Cam	lun 20.49	154	58	lun 21.00	153	57	lun 21.11	152	56	69
					NSVS 07826147 II	lun 21.04	242	27	lun 21.16	243	29	lun 21.27	245	31	228
					NY Vir	lun 21.06	295	23	lun 21.15	297	24	lun 21.23	299	26	445
					GSC 2499 246	lun 21.23	65	78	lun 22.13	83	69	lun 23.03	92	60	312
					HAT-192-0001841	lun 21.24	237	26	lun 21.50	240	30	lun 22.17	243	34	164
					BS UMa	lun 22.35	230	89	lun 23.17	98	83	mar 00.00	99	75	366
					NSVS 02502726	lun 22.45	129	60	lun 23.46	129	51	mar 00.46	131	42	199
					NSVS 07826147	lun 23.01	256	47	lun 23.12	257	49	lun 23.23	259	51	229
					V470 Cam	lun 23.07	148	45	lun 23.18	148	44	lun 23.29	149	43	68
					HW Vir	lun 23.11	346	38	lun 23.22	349	39	lun 23.32	352	39	479
					NY Vir	lun 23.32	332	42	lun 23.40	335	43	lun 23.49	338	44	446
					NSVS 01031772	lun 23.41	186	52	mar 00.27	182	52	mar 01.12	179	53	86
					NN Ser	mar 00.36	301	47	mar 00.36	301	47	mar 00.37	301	47	247
					NSVS 07826147 II	mar 00.57	272	69	mar 01.09	274	71	mar 01.20	276	73	229
					HAT-192-0001841 II	mar 01.06	260	64	mar 01.33	263	69	mar 01.59	266	74	165
					CM Dra	mar 01.21	224	62	mar 01.49	221	66	mar 02.16	216	69	97
					V470 Cam	mar 01.25	153	33	mar 01.36	154	32	mar 01.46	155	31	68
					HAT-225-0003429	mar 01.42	109	30	mar 02.16	114	25	mar 02.50	118	19	327
					GSC 2499 246	mar 01.47	113	30	mar 02.37	120	22	mar 03.28	127	14	311
					NY Vir	mar 01.57	23	44	mar 02.06	26	43	mar 02.14	29	42	446
					HW Vir	mar 01.59	37	32	mar 02.10	39	31	mar 02.20	42	30	479
					DE CVn	mar 02.20	110	71	mar 02.21	110	71	mar 02.21	110	71	324

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					BS Uma II	mar 02.47	113	45	mar 03.29	117	38	mar 04.12	121	31	366
					NSVS 07826147	mar 02.54	21	86	mar 03.05	44	85	mar 03.16	58	83	229
					NSVS 14256825	mar 03.31	287	25	mar 03.41	289	27	mar 03.51	291	28	-292
					OT Lyr	mar 03.35	278	55	mar 03.36	278	55	mar 03.36	278	55	-133
					V470 Cam	mar 03.43	164	23	mar 03.53	165	23	mar 04.04	166	22	67
					NN Ser	mar 03.44	19	60	mar 03.44	19	60	mar 03.44	19	60	247
mar 19-03-13	18.14	18.47	03.30	04.03	GSC 1941 1746 II	mar 13.26	250	14	mar 18.53	330	70	mer 00.20	97	30	274
					HAT-145-0001586	mar 17.22	221	16	mar 18.28	229	25	mar 19.34	236	35	308
					NSVS 02502726 II	mar 18.54	213	74	mar 19.55	179	78	mar 20.55	146	74	194
					GK Boo	mar 19.05	236	17	mar 20.11	244	27	mar 21.17	252	39	306
					GSC 2499 246	mar 19.24	290	77	mar 20.14	338	84	mar 21.05	56	81	306
					BS Uma II	mar 19.33	253	57	mar 20.16	257	64	mar 20.58	260	72	364
					NLTT11748	mar 19.44	92	25	mar 19.44	92	25	mar 19.45	92	25	-258
					V470 Cam	mar 19.47	162	62	mar 19.57	160	62	mar 20.08	158	61	63
					DE CVn	mar 19.49	240	40	mar 19.50	240	40	mar 19.50	240	40	324
					HAT-136-0003262	mar 20.10	101	81	mar 21.01	102	72	mar 21.52	105	62	201
					NSVS 07826147 II	mar 20.22	237	21	mar 20.33	239	23	mar 20.45	240	25	231
					NY Vir	mar 21.21	299	26	mar 21.29	301	27	mar 21.38	303	29	449
					HW Vir	mar 21.36	320	30	mar 21.46	322	32	mar 21.56	325	33	481
					V470 Cam	mar 22.04	149	51	mar 22.15	149	50	mar 22.26	148	49	62
					HAT-225-0003429	mar 22.11	75	69	mar 22.45	83	62	mar 23.18	89	56	322
					NSVS 07826147	mar 22.18	251	40	mar 22.30	253	42	mar 22.41	254	45	232
					NN Ser	mar 22.27	275	24	mar 22.28	275	24	mar 22.28	275	25	252
					HAT-192-0001841 II	mar 23.20	250	46	mar 23.46	252	51	mer 00.13	255	55	168
					BS UMa	mar 23.45	98	77	mer 00.27	101	69	mer 01.10	104	61	363
					NY Vir	mar 23.46	339	44	mar 23.55	341	44	mer 00.04	344	45	450
					GSC 2499 246	mar 23.48	99	51	mer 00.38	105	42	mer 01.29	112	33	305
					NSVS 07826147 II	mer 00.15	266	62	mer 00.26	267	64	mer 00.38	269	66	232
					V470 Cam	mer 00.22	150	38	mer 00.33	151	37	mer 00.44	151	36	62
					HW Vir	mer 00.24	10	39	mer 00.34	13	38	mer 00.44	16	38	481
					NN Ser	mer 01.35	321	55	mer 01.35	321	55	mer 01.35	321	55	253
					NSVS 02502726	mer 01.38	135	35	mer 02.38	140	27	mer 03.38	146	21	192
					GJ 3236	mer 02.09	177	21	mer 02.37	179	21	mer 03.06	182	21	-101
					NSVS 01031772	mer 02.11	174	52	mer 02.57	171	51	mer 03.43	169	49	83
					NSVS 07826147	mer 02.11	302	83	mer 02.23	316	85	mer 02.34	338	86	232
					NY Vir	mer 02.12	29	42	mer 02.20	32	41	mer 02.29	34	40	450
					OT Lyr	mer 02.12	264	40	mer 02.12	264	40	mer 02.13	264	40	-129
					FP Sge	mer 02.20	264	23	mer 02.21	264	23	mer 02.21	264	24	-261
					V470 Cam	mer 02.40	159	27	mer 02.51	160	26	mer 03.01	161	25	61
					HAT-192-0001841	mer 03.02	281	86	mer 03.29	64	88	mer 03.55	86	83	168
					HW Vir	mer 03.12	55	22	mer 03.22	57	20	mer 03.32	59	19	481
					NSVS 14256825	mer 03.21	286	24	mer 03.31	288	26	mer 03.41	290	27	-286
mer 20-03-13	18.15	18.49	03.28	04.02	GSC 1941 1746	mer 16.37	282	50	mer 22.04	73	54	gio 03.31	128	-4	266
					V608 Aur II	mer 18.35	85	78	mer 19.35	95	67	mer 20.36	102	56	43
					HAT-225-0003429	mer 18.39	283	67	mer 19.13	294	73	mer 19.47	314	78	317
					V470 Cam	mer 18.44	174	65	mer 18.55	171	65	mer 19.06	169	64	57
					V449 Per	mer 19.28	113	29	mer 19.28	113	29	mer 19.29	113	28	-292
					HAT-136-0003262 II	mer 19.33	111	87	mer 20.24	100	78	mer 21.15	103	68	194
					NSVS 01031772	mer 19.51	194	44	mer 20.37	194	46	mer 21.23	192	48	81
					GJ 3236	mer 20.40	153	39	mer 21.08	154	37	mer 21.36	155	34	-105
					BS Uma II	mer 20.43	259	70	mer 21.26	262	78	mer 22.08	260	86	360
					YY Gem	mer 20.58	81	61	mer 20.59	81	61	mer 20.59	81	61	166
					V470 Cam	mer 21.02	152	57	mer 21.12	151	56	mer 21.23	150	55	57
					HAT-192-0001841 II	mer 21.33	239	29	mer 22.00	242	33	mer 22.27	245	37	171
					NY Vir	mer 21.35	303	29	mer 21.44	305	30	mer 21.53	307	31	453
					NSVS 07826147	mer 21.36	247	34	mer 21.47	248	36	mer 21.59	249	38	235
					NSVS 02502726 II	mer 21.47	133	67	mer 22.47	129	59	mer 23.47	129	50	187
					GSC 2499 246	mer 21.49	79	72	mer 22.39	89	63	mer 23.30	97	53	300
					DE CVn	mer 22.02	250	63	mer 22.03	250	63	mer 22.03	250	63	323
					HW Vir	mer 22.49	341	37	mer 22.59	344	38	mer 23.09	347	38	483
					CM Dra II	mer 23.01	226	45	mer 23.29	226	48	mer 23.56	227	52	99
					V470 Cam	mer 23.19	148	43	mer 23.30	149	42	mer 23.41	149	41	56
					NN Ser	mer 23.26	286	36	mer 23.26	286	36	mer 23.27	286	36	258
					NSVS 07826147 II	mer 23.33	261	55	mer 23.44	262	57	mer 23.55	264	59	235
					HAT-225-0003429 II	mer 23.46	94	50	gio 00.20	99	44	gio 00.54	104	38	316
					NY Vir	gio 00.01	345	45	gio 00.10	348	45	gio 00.18	351	46	453
					OT Lyr	gio 00.49	252	25	gio 00.49	253	25	gio 00.49	253	25	-124
					BS UMa	gio 00.55	104	64	gio 01.37	107	56	gio 02.20	111	48	360
					HAT-192-0001841	gio 01.16	262	67	gio 01.42	265	72	gio 02.09	268	77	171

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					NSVS 07826147	gio 01.29	281	76	gio 01.40	285	78	gio 01.52	290	80	235
					HW Vir	gio 01.37	33	34	gio 01.47	35	33	gio 01.57	38	31	483
					V470 Cam	gio 01.37	155	31	gio 01.48	155	30	gio 01.59	156	29	55
					NY Vir	gio 02.26	35	40	gio 02.35	37	39	gio 02.44	40	38	454
					NN Ser	gio 02.33	348	60	gio 02.34	348	60	gio 02.34	348	60	259
					NSVS 14256825	gio 03.12	285	23	gio 03.22	287	25	gio 03.32	289	26	-280
					NSVS 07826147 II	gio 03.26	70	80	gio 03.37	75	78	gio 03.48	79	76	235
gio 21-03-13	18.16	18.50	03.26	04.00	BS UMa	gio 17.41	244	39	gio 18.24	248	46	gio 19.06	252	53	358
					NSVS 02502726	gio 17.56	226	68	gio 18.56	209	75	gio 19.56	173	77	182
					BX Tri	gio 18.33	110	30	gio 19.24	116	21	gio 20.15	123	13	-347
					HAT-136-0003262	gio 18.56	250	87	gio 19.47	102	84	gio 20.38	101	74	187
					NLTT11748	gio 19.04	87	31	gio 19.04	87	31	gio 19.05	87	31	-272
					GSC 2499 246	gio 19.50	315	82	gio 20.41	40	83	gio 21.31	74	75	294
					V470 Cam	gio 19.59	159	61	gio 20.10	157	60	gio 20.21	156	60	51
					HAT-225-0003429 II	gio 20.14	348	81	gio 20.48	32	80	gio 21.22	59	76	311
					V912 Per	gio 20.15	118	30	gio 20.16	118	30	gio 20.16	118	30	-222
					NSVS 07826147	gio 20.54	242	27	gio 21.05	244	29	gio 21.17	245	31	237
					HW Vir	gio 21.13	316	29	gio 21.23	319	30	gio 21.34	321	31	485
					NY Vir	gio 21.50	308	32	gio 21.59	310	33	gio 22.07	312	34	456
					BS Uma II	gio 21.53	262	84	gio 22.35	111	88	gio 23.18	98	80	357
					V608 Aur	gio 22.04	119	29	gio 23.04	126	20	ven 00.04	134	11	-66
					V470 Cam	gio 22.17	148	49	gio 22.28	148	48	gio 22.38	148	47	50
					NSVS 01031772	gio 22.22	190	50	gio 23.08	187	51	gio 23.53	184	52	78
					NSVS 07826147 II	gio 22.50	256	48	gio 23.02	257	50	gio 23.13	259	52	238
					HAT-192-0001841	gio 23.29	252	49	gio 23.56	254	54	ven 00.23	257	58	174
					HW Vir	ven 00.01	5	39	ven 00.12	8	39	ven 00.22	12	39	485
					GSC 2499 246	ven 00.14	103	45	ven 01.05	110	36	ven 01.55	116	27	293
					DE CVn	ven 00.15	211	86	ven 00.16	210	86	ven 00.16	210	86	323
					NY Vir	ven 00.16	351	46	ven 00.24	354	46	ven 00.33	358	46	457
					NN Ser	ven 00.24	301	47	ven 00.25	301	47	ven 00.25	301	47	264
					V470 Cam	ven 00.34	151	36	ven 00.45	152	35	ven 00.56	152	34	50
					NSVS 02502726 II	ven 00.39	131	42	ven 01.39	136	34	ven 02.39	141	26	180
					NSVS 07826147	ven 00.47	272	69	ven 00.58	274	71	ven 01.10	277	73	238
					HAT-225-0003429	ven 01.21	108	32	ven 01.55	113	26	ven 02.29	117	20	310
					BS UMa	ven 02.05	110	50	ven 02.47	114	43	ven 03.30	118	36	357
					NY Vir	ven 02.41	40	38	ven 02.50	42	37	ven 02.58	45	36	457
					NSVS 07826147 II	ven 02.43	24	86	ven 02.55	46	84	ven 03.06	59	83	238
					HW Vir	ven 02.49	51	24	ven 03.00	54	23	ven 03.10	56	21	486
					V470 Cam	ven 02.52	161	25	ven 03.03	162	25	ven 03.14	163	24	49
					NSVS 14256825	ven 03.02	284	22	ven 03.12	286	24	ven 03.22	288	25	-274
					HAT-192-0001841 II	ven 03.12	348	89	ven 03.38	83	85	ven 04.05	90	80	174
					FI Del	ven 03.22	278	31	ven 03.22	278	31	ven 03.23	278	31	-283
					NN Ser	ven 03.32	19	60	ven 03.32	19	60	ven 03.32	19	60	265
ven 22-03-13	18.18	18.51	03.24	03.58	BX Tri	ven 17.40	103	39	ven 18.31	110	30	ven 19.22	117	21	-352
					GSC 2499 246	ven 17.51	270	62	ven 18.42	280	71	ven 19.32	302	80	288
					HAT-136-0003262 II	ven 18.19	259	81	ven 19.10	174	89	ven 20.01	101	80	180
					BS UMa	ven 18.51	251	51	ven 19.34	254	59	ven 20.16	258	67	354
					V470 Cam	ven 18.56	169	64	ven 19.07	167	64	ven 19.18	165	63	45
					V471 Tau	ven 19.12	87	29	ven 19.13	88	29	ven 19.13	88	29	-272
					NSVS 07826147	ven 20.11	237	21	ven 20.23	239	23	ven 20.34	240	25	240
					CM Dra	ven 20.41	217	28	ven 21.08	219	31	ven 21.36	221	35	101
					NSVS 02502726	ven 20.48	144	73	ven 21.48	132	66	ven 22.48	129	57	175
					V470 Cam	ven 21.14	151	55	ven 21.25	150	54	ven 21.36	149	53	44
					HAT-145-0001586	ven 21.34	246	56	ven 22.40	248	68	ven 23.46	242	79	308
					HAT-192-0001841	ven 21.43	241	32	ven 22.10	244	36	ven 22.36	247	40	177
					HAT-225-0003429	ven 21.50	72	70	ven 22.23	81	64	ven 22.57	88	58	304
					YY Gem II	ven 21.50	92	50	ven 21.50	92	50	ven 21.50	92	50	150
					NY Vir	ven 22.05	312	34	ven 22.13	314	35	ven 22.22	317	37	460
					NSVS 07826147 II	ven 22.08	251	41	ven 22.19	253	43	ven 22.31	254	45	240
					GSC 2499 246	ven 22.15	86	66	ven 23.06	95	56	ven 23.56	102	47	287
					NN Ser	ven 22.16	275	24	ven 22.16	275	24	ven 22.16	275	25	269
					HW Vir	ven 22.26	337	36	ven 22.36	340	37	ven 22.46	343	38	487
					BS Uma II	ven 23.03	98	83	ven 23.45	99	75	sab 00.28	102	67	354
					V470 Cam	ven 23.32	149	41	ven 23.43	149	40	ven 23.53	150	39	44
					NSVS 07826147	sab 00.04	266	62	sab 00.16	268	64	sab 00.27	269	66	241
					NY Vir	sab 00.30	358	46	sab 00.39	1	46	sab 00.47	4	46	460
					NSVS 01031772	sab 00.52	179	53	sab 01.38	176	52	sab 02.24	173	51	75
					HW Vir	sab 01.14	28	35	sab 01.24	31	34	sab 01.34	34	33	487
					NN Ser	sab 01.23	321	55	sab 01.23	321	55	sab 01.24	321	55	270

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					HAT-192-0001841 II	sab 01.26	264	71	sab 01.52	267	76	sab 02.19	271	81	177
					V470 Cam	sab 01.49	156	29	sab 02.00	157	29	sab 02.11	158	28	43
					NSVS 07826147 II	sab 02.01	303	83	sab 02.12	318	85	sab 02.24	342	86	241
					DE CVn	sab 02.28	110	67	sab 02.29	110	67	sab 02.29	110	67	322
					GU Boo	sab 02.42	32	81	sab 03.28	65	74	sab 04.14	80	66	271
					NSVS 14256825	sab 02.53	283	21	sab 03.03	285	23	sab 03.13	287	24	-268
					NY Vir	sab 02.56	45	36	sab 03.04	47	35	sab 03.13	49	33	460
					BS UMa	sab 03.14	117	38	sab 03.57	122	31	sab 04.40	126	24	353
sab 23-03-13	18.19	18.52	03.23	03.56	HAT-136-0003262	sab 17.42	259	75	sab 18.33	257	84	sab 19.24	109	86	173
					HAT-225-0003429	sab 18.18	281	65	sab 18.52	291	71	sab 19.26	307	77	299
					NLTT11748	sab 18.24	81	37	sab 18.24	81	37	sab 18.25	81	37	-286
					NSVS 01031772	sab 18.32	194	41	sab 19.18	194	43	sab 20.04	194	45	73
					V608 Aur II	sab 19.51	99	62	sab 20.52	105	51	sab 21.52	112	40	18
					DE CVn	sab 19.57	242	44	sab 19.57	242	44	sab 19.58	242	44	322
					BS UMa	sab 20.01	257	65	sab 20.44	260	72	sab 21.26	262	80	351
					V470 Cam	sab 20.11	156	60	sab 20.22	155	59	sab 20.33	153	58	38
					GSC 2499 246	sab 20.17	13	84	sab 21.07	67	78	sab 21.57	84	68	281
					HW Vir	sab 20.51	313	27	sab 21.01	315	28	sab 21.11	317	29	489
					AP Tau	sab 21.21	107	22	sab 21.21	107	22	sab 21.21	107	22	-153
					NSVS 07826147 II	sab 21.26	247	34	sab 21.37	248	36	sab 21.48	250	38	243
					TrES-Her0-07621	sab 22.12	235	33	sab 23.17	240	43	dom 00.21	245	54	111
					NY Vir	sab 22.19	317	37	sab 22.28	319	38	sab 22.37	322	39	463
					V470 Cam	sab 22.29	148	47	sab 22.40	148	46	sab 22.51	148	45	38
					GJ 3236	sab 22.42	160	29	sab 23.10	162	27	sab 23.39	164	26	-122
					NN Ser	sab 23.14	286	36	sab 23.14	286	36	sab 23.15	286	36	275
					NSVS 07826147	sab 23.22	261	55	sab 23.34	262	57	sab 23.45	264	59	243
					HAT-225-0003429 II	sab 23.25	93	52	sab 23.59	98	46	dom 00.33	103	39	298
					HW Vir	sab 23.39	0	39	sab 23.49	4	39	sab 23.59	7	39	489
					HAT-192-0001841 II	sab 23.39	253	52	dom 00.06	256	57	dom 00.33	259	62	180
					NSVS 02502726	sab 23.40	129	49	dom 00.40	132	41	dom 01.40	136	33	167
					BS Uma II	dom 00.13	101	69	dom 00.55	105	61	dom 01.38	108	54	350
					GSC 2499 246	dom 00.41	108	38	dom 01.31	114	30	dom 02.22	120	21	280
					NY Vir	dom 00.45	5	46	dom 00.53	8	46	dom 01.02	11	45	463
					V470 Cam	dom 00.47	152	34	dom 00.58	153	33	dom 01.08	154	32	37
					HAT-196-0006238	dom 01.14	260	48	dom 01.14	260	48	dom 01.14	260	48	18
					NSVS 07826147 II	dom 01.19	281	76	dom 01.30	286	78	dom 01.41	291	80	243
					GU Boo	dom 02.09	352	82	dom 02.56	48	79	dom 03.42	72	71	274
					GK Boo	dom 02.17	62	80	dom 03.23	85	68	dom 04.29	96	55	315
					NN Ser	dom 02.21	348	60	dom 02.22	348	60	dom 02.22	348	60	276
					HW Vir	dom 02.27	48	26	dom 02.37	50	25	dom 02.47	53	23	489
					NSVS 14256825	dom 02.43	282	20	dom 02.53	284	22	dom 03.03	286	23	-261
					V470 Cam	dom 03.05	162	24	dom 03.15	163	24	dom 03.26	164	23	37
					CM Dra	dom 03.07	190	75	dom 03.35	176	75	dom 04.02	163	74	102
					NY Vir	dom 03.10	50	33	dom 03.19	52	32	dom 03.28	54	31	463
					NSVS 07826147	dom 03.15	71	80	dom 03.26	76	78	dom 03.38	80	76	244
					HAT-192-0001841	dom 03.22	78	87	dom 03.48	88	82	dom 04.15	93	77	180
dom 24-03-13	18.20	18.54	03.21	03.54	GSC 2499 246	dom 18.18	276	68	dom 19.08	292	77	dom 19.58	345	84	275
					V470 Cam	dom 19.09	165	63	dom 19.19	163	63	dom 19.30	161	62	32
					NLTT11748	dom 19.28	93	24	dom 19.28	93	24	dom 19.28	93	24	-294
					NSVS 02502726 II	dom 19.49	170	77	dom 20.49	141	72	dom 21.50	131	65	162
					HAT-225-0003429 II	dom 19.53	336	81	dom 20.27	21	81	dom 21.01	53	77	292
					AP Tau	dom 20.40	101	29	dom 20.41	101	29	dom 20.41	101	29	-161
					NSVS 07826147 II	dom 20.43	242	28	dom 20.55	244	29	dom 21.06	245	31	246
					NSVS 01031772	dom 21.03	193	48	dom 21.49	191	49	dom 22.34	188	51	70
					BS UMa	dom 21.11	262	78	dom 21.53	260	86	dom 22.36	100	86	347
					V470 Cam	dom 21.26	149	53	dom 21.37	149	52	dom 21.48	149	51	32
					HAT-192-0001841 II	dom 21.53	243	34	dom 22.20	246	39	dom 22.46	248	43	183
					HW Vir	dom 22.03	332	35	dom 22.13	335	36	dom 22.24	338	37	490
					DE CVn	dom 22.10	250	67	dom 22.11	250	67	dom 22.11	250	67	321
					NY Vir	dom 22.34	322	39	dom 22.43	325	40	dom 22.51	327	41	466
					NSVS 07826147	dom 22.40	256	48	dom 22.51	257	50	dom 23.03	259	52	246
					YY Gem	dom 22.41	101	39	dom 22.41	101	39	dom 22.42	101	39	133
					GSC 2499 246	dom 22.42	92	59	dom 23.32	99	50	lun 00.23	106	41	274
					V470 Cam	dom 23.44	150	39	dom 23.55	150	38	lun 00.06	150	37	31
					NN Ser	lun 00.13	301	47	lun 00.13	301	47	lun 00.13	301	47	281
					NSVS 07826147 II	lun 00.36	272	69	lun 00.48	275	71	lun 00.59	277	74	246
					HW Vir	lun 00.51	24	36	lun 01.01	27	35	lun 01.12	30	35	490
					HAT-136-0003262	lun 00.52	124	28	lun 01.43	130	21	lun 02.34	136	14	164
					NY Vir	lun 00.59	11	45	lun 01.08	14	45	lun 01.17	17	45	466

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					HAT-225-0003429	lun 01.00	107	34	lun 01.34	111	28	lun 02.08	116	22	291
					TrES-Her0-07621	lun 01.06	247	62	lun 02.11	246	74	lun 03.15	220	84	114
					GK Boo	lun 01.13	332	84	lun 02.19	66	79	lun 03.25	86	67	316
					BS Uma II	lun 01.23	107	56	lun 02.05	111	48	lun 02.48	115	41	346
					HAT-192-0001841	lun 01.35	266	74	lun 02.02	269	79	lun 02.29	275	84	183
					GU Boo	lun 01.37	318	80	lun 02.23	18	82	lun 03.09	60	76	276
					V470 Cam	lun 02.02	158	28	lun 02.13	158	27	lun 02.23	159	26	31
					NSVS 07826147	lun 02.33	27	86	lun 02.44	48	84	lun 02.56	60	82	246
					NSVS 14256825	lun 02.34	281	19	lun 02.44	283	21	lun 02.54	285	22	-255
					NN Ser	lun 03.20	19	60	lun 03.20	19	60	lun 03.21	19	60	282
					NY Vir	lun 03.25	54	30	lun 03.34	56	29	lun 03.42	58	28	466
lun 25-03-13	18.21	18.55	03.19	03.53	V608 Aur	lun 17.39	90	74	lun 18.39	98	63	lun 19.40	105	52	-97
					BS Uma II	lun 18.09	248	46	lun 18.52	252	54	lun 19.34	255	61	344
					AP Tau	lun 20.00	96	36	lun 20.00	96	36	lun 20.00	96	36	-169
					NSVS 07826147 II	lun 20.01	238	21	lun 20.12	239	23	lun 20.24	240	25	248
					HAT-192-0001841 II	lun 20.07	231	18	lun 20.33	234	22	lun 21.00	237	27	185
					NY Vir	lun 20.23	292	20	lun 20.32	294	22	lun 20.40	296	23	468
					V470 Cam	lun 20.24	154	58	lun 20.34	153	57	lun 20.45	152	56	26
					HW Vir	lun 20.28	309	24	lun 20.38	311	26	lun 20.48	314	27	492
					GSC 2499 246	lun 20.43	58	80	lun 21.33	80	71	lun 22.24	90	62	268
					HAT-225-0003429	lun 21.28	69	72	lun 22.02	79	66	lun 22.36	86	59	285
					NSVS 07826147	lun 21.58	252	41	lun 22.09	253	43	lun 22.20	254	45	248
					NN Ser	lun 22.04	275	24	lun 22.04	275	24	lun 22.05	275	25	286
					BS UMa	lun 22.21	109	88	lun 23.03	98	80	lun 23.46	100	72	343
					NSVS 02502726 II	lun 22.41	128	57	lun 23.41	129	48	mar 00.42	133	39	155
					V470 Cam	lun 22.41	148	45	lun 22.52	148	44	lun 23.03	149	43	25
					NY Vir	lun 22.49	328	41	lun 22.57	330	42	lun 23.06	333	43	469
					HW Vir	lun 23.16	356	39	lun 23.26	359	39	lun 23.36	2	39	492
					NSVS 01031772	lun 23.33	184	52	mar 00.19	181	53	mar 01.05	177	52	67
					HAT-192-0001841	lun 23.49	255	55	mar 00.16	258	60	mar 00.42	260	65	186
					NSVS 07826147 II	lun 23.54	266	62	mar 00.05	268	64	mar 00.17	270	66	249
					GK Boo	mar 00.09	285	75	mar 01.15	343	84	mar 02.21	69	78	318
					HAT-136-0003262 II	mar 00.15	120	34	mar 01.06	126	26	mar 01.57	132	18	157
					DE CVn	mar 00.23	151	86	mar 00.24	150	86	mar 00.24	150	86	320
					CM Dra II	mar 00.47	225	62	mar 01.14	222	65	mar 01.42	217	68	104
					V470 Cam	mar 00.59	153	32	mar 01.10	154	32	mar 01.21	155	31	25
					GU Boo	mar 01.04	298	75	mar 01.50	337	81	mar 02.37	39	80	279
					GSC 2499 246	mar 01.07	112	32	mar 01.58	118	24	mar 02.48	125	16	267
					NN Ser	mar 01.11	321	55	mar 01.12	321	55	mar 01.12	321	55	287
					NY Vir	mar 01.14	18	45	mar 01.23	21	44	mar 01.31	24	43	469
					HAT-145-0001586	mar 01.46	114	76	mar 02.52	112	64	mar 03.58	115	53	306
					NSVS 07826147	mar 01.50	304	83	mar 02.02	320	85	mar 02.13	345	86	249
					HW Vir	mar 02.04	45	28	mar 02.14	47	27	mar 02.24	49	25	492
					BS Uma II	mar 02.32	114	43	mar 03.15	118	36	mar 03.58	123	29	343
					V470 Cam	mar 03.17	164	23	mar 03.28	165	23	mar 03.38	166	22	24
					NY Vir	mar 03.40	58	28	mar 03.48	60	26	mar 03.57	62	25	469
mar 26-03-13	18.22	18.56	03.17	03.51	HAT-225-0003429	mar 17.57	278	64	mar 18.31	287	70	mar 19.05	302	76	280
					HAT-133-0002525	mar 18.39	104	75	mar 19.48	107	63	mar 20.57	112	51	6
					GSC 2499 246	mar 18.44	286	75	mar 19.34	319	83	mar 20.25	44	82	262
					NLTT11748	mar 18.48	87	30	mar 18.48	87	30	mar 18.48	87	30	-307
					NSVS 02502726	mar 18.50	203	76	mar 19.50	164	77	mar 20.51	139	71	149
					BS Uma II	mar 19.19	254	59	mar 20.02	258	67	mar 20.44	261	75	340
					AP Tau	mar 19.19	90	43	mar 19.20	90	43	mar 19.20	90	42	-177
					V470 Cam	mar 19.21	162	62	mar 19.32	160	62	mar 19.43	158	61	20
					NY Vir	mar 20.38	296	23	mar 20.46	298	25	mar 20.55	300	26	471
					V608 Aur II	mar 21.08	108	46	mar 22.08	115	35	mar 23.08	122	26	-7
					NSVS 07826147	mar 21.15	247	34	mar 21.27	248	36	mar 21.38	250	38	251
					V470 Cam	mar 21.39	149	51	mar 21.50	148	50	mar 22.00	148	49	20
					HW Vir	mar 21.40	328	34	mar 21.51	331	35	mar 22.01	334	36	493
					HAT-192-0001841	mar 22.03	245	37	mar 22.29	247	42	mar 22.56	250	47	188
					NN Ser	mar 23.02	286	36	mar 23.03	286	36	mar 23.03	286	36	291
					NY Vir	mar 23.03	333	43	mar 23.12	336	43	mar 23.21	339	44	471
					HAT-225-0003429 II	mar 23.04	92	54	mar 23.38	97	47	mer 00.12	101	41	278
					GK Boo	mar 23.05	271	64	mer 00.11	287	76	mer 01.17	355	85	319
					GSC 2499 246	mar 23.08	97	53	mar 23.59	104	44	mer 00.49	110	35	261
					NSVS 07826147 II	mar 23.12	261	55	mar 23.23	262	57	mer 23.34	264	59	251
					BS UMa	mar 23.31	99	75	mer 00.13	102	67	mer 00.56	106	59	339
					YY Gem II	mar 23.33	109	28	mar 23.33	109	28	mar 23.33	109	28	117
					HAT-136-0003262	mar 23.38	117	39	mer 00.29	122	31	mer 01.20	128	23	149

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					V470 Cam	mar 23.56	150	38	mer 00.07	151	37	mer 00.18	151	36	19
					HW Vir	mer 00.29	20	37	mer 00.39	23	37	mer 00.49	26	36	493
					GU Boo	mer 00.32	287	70	mer 01.18	309	78	mer 02.04	2	82	282
					GJ 3236	mer 00.45	171	23	mer 01.13	174	22	mer 01.41	176	21	-139
					NSVS 07826147	mer 01.08	282	77	mer 01.20	286	79	mer 01.31	292	81	251
					NY Vir	mer 01.29	24	43	mer 01.37	27	43	mer 01.46	30	42	472
					NSVS 02502726 II	mer 01.33	137	32	mer 02.33	142	25	mer 03.34	149	18	148
					HAT-192-0001841 II	mer 01.45	268	77	mer 02.12	272	82	mer 02.38	284	87	189
					NSVS 01031772	mer 02.03	173	51	mer 02.49	170	50	mer 03.35	168	49	63
					NN Ser	mer 02.10	348	60	mer 02.10	348	60	mer 02.10	348	60	292
					V470 Cam	mer 02.14	159	26	mer 02.25	160	26	mer 02.36	161	25	18
					DE CVn	mer 02.36	110	63	mer 02.37	110	63	mer 02.37	110	63	319
					NSVS 07826147 II	mer 03.05	71	80	mer 03.16	76	78	mer 03.27	80	75	251
					FI Del	mer 03.09	279	32	mer 03.10	279	32	mer 03.10	279	32	-255
					OT Lyr	mer 03.48	288	62	mer 03.48	288	63	mer 03.48	288	63	-94
					FP Sge	mer 03.50	285	45	mer 03.50	285	45	mer 03.50	285	45	-225
mer 27-03-13	18.24	18.58	03.15	03.49	BX Tri	mer 17.53	107	33	mer 18.44	114	24	mer 19.35	121	16	-379
					V470 Cam	mer 18.18	173	65	mer 18.29	171	64	mer 18.40	169	64	14
					AP Tau	mer 18.39	84	49	mer 18.39	84	49	mer 18.40	84	49	-184
					YY Gem II	mer 19.05	50	75	mer 19.05	50	75	mer 19.06	51	75	110
					GJ 3236	mer 19.15	152	44	mer 19.44	152	41	mer 20.12	153	39	-143
					HAT-225-0003429 II	mer 19.32	326	80	mer 20.06	9	81	mer 20.40	46	78	273
					NSVS 01031772	mer 19.44	194	45	mer 20.30	193	47	mer 21.15	192	49	61
					HW Vir	mer 20.05	306	22	mer 20.15	308	24	mer 20.26	310	25	494
					DE CVn	mer 20.05	244	48	mer 20.05	244	48	mer 20.06	244	48	318
					HAT-192-0001841	mer 20.16	233	21	mer 20.43	236	25	mer 21.10	239	29	191
					BS Uma II	mer 20.29	260	73	mer 21.11	262	80	mer 21.54	250	88	336
					NSVS 07826147	mer 20.33	243	28	mer 20.44	244	30	mer 20.56	245	32	253
					V470 Cam	mer 20.36	152	56	mer 20.47	151	55	mer 20.58	150	54	14
					NY Vir	mer 20.52	300	26	mer 21.01	302	28	mer 21.10	304	29	474
					GSC 2499 246	mer 21.09	75	74	mer 22.00	87	65	mer 22.50	95	56	255
					NSVS 02502726	mer 21.42	130	64	mer 22.42	128	55	mer 23.43	130	46	142
					GK Boo	mer 22.01	262	52	mer 23.07	272	65	gio 00.13	289	77	321
					CM Dra	mer 22.27	225	44	mer 22.54	226	47	mer 23.21	227	51	106
					NSVS 07826147 II	mer 22.29	256	48	mer 22.41	258	50	mer 22.52	259	52	253
					HW Vir	mer 22.53	351	39	mer 23.03	354	39	mer 23.14	357	39	494
					V470 Cam	mer 22.54	149	43	mer 23.05	149	42	mer 23.15	149	41	13
					HAT-136-0003262 II	mer 23.01	114	45	mer 23.52	119	36	gio 00.43	124	28	142
					NY Vir	mer 23.18	340	44	mer 23.27	342	45	mer 23.35	345	45	474
					HAT-192-0001841 II	mer 23.59	257	58	gio 00.25	259	63	gio 00.52	262	68	191
					GU Boo	mer 23.59	279	65	gio 00.45	293	73	gio 01.32	324	80	284
					NN Ser	gio 00.01	301	47	gio 00.01	301	47	gio 00.02	301	47	297
					NSVS 07826147	gio 00.26	273	70	gio 00.37	275	72	gio 00.49	277	74	254
					HAT-225-0003429	gio 00.39	106	35	gio 01.13	110	29	gio 01.47	115	24	271
					BS UMa	gio 00.41	105	61	gio 01.23	108	53	gio 02.06	112	46	335
					V470 Cam	gio 01.12	155	31	gio 01.22	156	30	gio 01.33	156	29	12
					HW Vir	gio 01.41	41	30	gio 01.51	43	29	gio 02.02	46	27	494
					NY Vir	gio 01.43	30	42	gio 01.52	33	41	gio 02.01	35	40	474
					NSVS 07826147 II	gio 02.22	30	85	gio 02.34	50	84	gio 02.45	62	82	254
					OT Lyr	gio 02.24	271	48	gio 02.25	271	48	gio 02.25	271	48	-89
					NN Ser	gio 03.08	19	60	gio 03.09	19	60	gio 03.09	19	60	298
					V470 Cam	gio 03.29	166	22	gio 03.40	167	22	gio 03.51	168	21	12
					HS 2231+2441	gio 03.48	256	23	gio 03.48	256	23	gio 03.49	257	23	-408
gio 28-03-13	18.25	18.59	03.13	03.47	GSC 1941 1746 II	gio 14.56	269	37	gio 20.23	51	65	ven 01.50	116	7	206
					NSVS 02502726 II	gio 17.51	222	71	gio 18.52	197	77	gio 19.52	159	76	137
					V912 Per	gio 18.36	110	43	gio 18.36	110	43	gio 18.37	110	42	-270
					V608 Aur	gio 18.55	101	58	gio 19.56	108	47	gio 20.56	114	36	-122
					GSC 2499 246	gio 19.10	303	80	gio 20.01	21	84	gio 20.51	69	77	248
					V470 Cam	gio 19.33	158	61	gio 19.44	157	60	gio 19.55	155	59	8
					NSVS 07826147	gio 19.51	238	22	gio 20.02	239	23	gio 20.13	241	25	256
					GK Boo	gio 20.57	254	41	gio 22.03	262	53	gio 23.09	273	66	322
					NY Vir	gio 21.07	304	29	gio 21.16	306	31	gio 21.24	308	32	476
					HAT-225-0003429	gio 21.07	65	73	gio 21.41	76	67	gio 22.15	84	61	265
					HW Vir	gio 21.18	324	32	gio 21.28	327	33	gio 21.38	330	34	495
					BS Uma II	gio 21.39	260	86	gio 22.21	100	86	gio 23.04	98	78	332
					NSVS 07826147 II	gio 21.47	252	41	gio 21.58	253	43	gio 22.10	254	45	256
					V470 Cam	gio 21.51	148	49	gio 22.02	148	48	gio 22.13	148	47	7
					NN Ser	gio 21.52	275	24	gio 21.52	275	25	gio 21.53	275	25	302
					G179-55	gio 22.07	243	45	gio 22.07	243	45	gio 22.07	243	45	209

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					HAT-192-0001841 II	gio 22.13	246	40	gio 22.39	249	45	gio 23.06	252	50	194
					NSVS 01031772	gio 22.14	189	51	gio 23.00	186	52	gio 23.46	182	52	58
					DE CVn	gio 22.18	250	71	gio 22.19	250	71	gio 22.19	250	71	317
					HAT-136-0003262	gio 22.24	111	50	gio 23.15	115	42	ven 00.06	121	33	135
					GU Boo	gio 23.27	273	60	ven 00.13	284	68	ven 00.59	302	76	287
					NY Vir	gio 23.33	346	45	gio 23.41	349	45	gio 23.50	352	46	477
					GSC 2499 246	gio 23.35	102	47	ven 00.25	108	38	ven 01.15	114	29	247
					NSVS 07826147	gio 23.44	266	62	gio 23.55	268	65	ven 00.06	270	67	256
					HW Vir	ven 00.06	15	38	ven 00.16	18	38	ven 00.26	21	37	495
					V470 Cam	ven 00.09	151	36	ven 00.20	152	35	ven 00.30	152	34	7
					NSVS 02502726	ven 00.34	133	39	ven 01.35	138	31	ven 02.35	143	24	135
					NN Ser	ven 00.59	321	55	ven 01.00	321	55	ven 01.00	321	55	302
					OT Lyr	ven 01.01	259	33	ven 01.01	259	33	ven 01.02	259	33	-84
					NSVS 07826147 II	ven 01.40	306	83	ven 01.51	322	85	ven 02.03	349	86	256
					BS UMa	ven 01.50	111	48	ven 02.33	115	41	ven 03.16	120	34	331
					HAT-192-0001841	ven 01.55	270	81	ven 02.21	278	86	ven 02.48	36	89	194
					NY Vir	ven 01.58	36	40	ven 02.07	38	39	ven 02.15	41	38	477
					FP Sge	ven 02.03	267	27	ven 02.03	267	27	ven 02.04	267	27	-214
					V470 Cam	ven 02.27	161	25	ven 02.37	162	25	ven 02.48	163	24	6
					MR Del	ven 02.31	281	20	ven 03.24	291	29	ven 04.16	303	38	-250
					HS 2231+2441	ven 03.41	256	22	ven 03.41	256	23	ven 03.42	256	23	-406
ven 29-03-13	18.26	19.00	03.11	03.45	GSC 1941 1746	ven 18.07	326	70	ven 23.34	96	31	sab 05.01	153	-19	198
					V470 Cam	ven 18.31	169	64	ven 18.41	167	64	ven 18.52	165	63	2
					BS UMa	ven 18.37	252	54	ven 19.20	255	61	ven 20.02	259	69	328
					NLT11748	ven 19.11	93	24	ven 19.12	93	24	ven 19.12	93	23	-328
					V449 Per	ven 19.12	116	25	ven 19.12	116	25	ven 19.13	116	25	-347
					HW Vir	ven 19.42	303	20	ven 19.53	305	22	ven 20.03	307	23	496
					GK Boo	ven 19.53	247	31	ven 20.59	255	42	ven 22.05	263	55	323
					YY Gem	ven 19.57	75	66	ven 19.57	75	66	ven 19.57	75	65	93
					CM Dra II	ven 20.07	216	28	ven 20.34	219	31	ven 21.01	221	34	108
					HAT-192-0001841 II	ven 20.26	235	24	ven 20.53	238	28	ven 21.20	241	32	196
					NSVS 02502726 II	ven 20.43	138	71	ven 21.44	130	63	ven 22.44	128	54	129
					V470 Cam	ven 20.48	150	55	ven 20.59	150	54	ven 21.10	149	53	1
					NSVS 07826147 II	ven 21.05	247	34	ven 21.16	249	36	ven 21.28	250	38	258
					NY Vir	ven 21.22	308	32	ven 21.30	310	33	ven 21.39	313	34	479
					GSC 2499 246	ven 21.36	84	68	ven 22.26	93	59	ven 23.17	100	49	241
					HAT-136-0003262 II	ven 21.47	108	56	ven 22.38	112	47	ven 23.29	117	39	127
					V608 Aur II	ven 22.24	118	31	ven 23.24	125	21	sab 00.24	133	13	-33
					HW Vir	ven 22.30	346	38	ven 22.41	349	39	ven 22.51	353	39	496
					HAT-225-0003429 II	ven 22.43	90	55	ven 23.17	95	49	ven 23.50	100	43	258
					BS Uma II	ven 22.49	98	80	ven 23.31	100	72	sab 00.14	103	64	328
					NN Ser	ven 22.51	286	36	ven 22.51	286	36	ven 22.51	286	36	307
					GU Boo	ven 22.54	268	55	ven 23.40	277	63	sab 00.27	289	72	289
					NSVS 07826147	ven 23.01	261	55	ven 23.13	263	57	ven 23.24	264	60	258
					V470 Cam	ven 23.06	149	41	ven 23.17	149	40	ven 23.28	150	39	1
					NY Vir	ven 23.47	352	46	ven 23.56	356	46	sab 00.04	359	46	479
					HAT-192-0001841	sab 00.09	259	62	sab 00.35	261	67	sab 01.02	264	71	196
					DE CVn	sab 00.31	122	83	sab 00.32	122	83	sab 00.32	122	83	316
					NSVS 01031772	sab 00.44	178	52	sab 01.30	174	52	sab 02.16	172	51	55
					NSVS 07826147 II	sab 00.58	282	77	sab 01.09	287	79	sab 01.21	293	81	258
					HW Vir	sab 01.19	37	32	sab 01.29	40	31	sab 01.39	42	29	496
					V470 Cam	sab 01.24	156	29	sab 01.35	157	28	sab 01.45	158	28	0
					NN Ser	sab 01.58	348	60	sab 01.58	348	60	sab 01.59	348	60	308
					NY Vir	sab 02.13	41	38	sab 02.21	43	37	sab 02.30	46	35	479
					NSVS 07826147	sab 02.54	72	79	sab 03.06	77	77	sab 03.17	80	75	258
					BS UMa	sab 03.00	118	36	sab 03.43	123	29	sab 04.26	128	22	327
					HS 2231+2441	sab 03.34	256	22	sab 03.35	256	22	sab 03.35	256	22	-403
sab 30-03-13	18.27	19.02	03.09	03.43	NSVS 01031772	sab 18.25	194	42	sab 19.11	194	44	sab 19.56	194	46	53
					GK Boo	sab 18.49	239	21	sab 19.55	247	32	sab 21.01	256	44	324
					HAT-216-0003316	sab 18.50	95	45	sab 18.51	96	45	sab 18.51	96	45	-226
					HAT-225-0003429 II	sab 19.11	317	79	sab 19.45	356	81	sab 20.19	38	79	252
					GSC 2499 246	sab 19.37	349	84	sab 20.27	60	80	sab 21.18	81	71	234
					V470 Cam	sab 19.46	156	60	sab 19.57	154	59	sab 20.07	153	58	-5
					BS UMa	sab 19.47	258	67	sab 20.29	261	75	sab 21.12	262	83	324
					HAT-145-0001586	sab 20.04	242	47	sab 21.10	247	58	sab 22.16	248	69	303
					NSVS 07826147 II	sab 20.22	243	28	sab 20.34	244	30	sab 20.45	245	32	260
					HW Vir	sab 20.55	320	31	sab 21.05	323	32	sab 21.15	326	33	497
					HAT-136-0003262	sab 21.10	105	62	sab 22.01	109	53	sab 22.52	114	44	120
					GJ 3236	sab 21.18	156	33	sab 21.46	158	31	sab 22.14	160	29	-159

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					NY Vir	sab 21.36	313	35	sab 21.45	315	36	sab 21.54	317	37	481
					V470 Cam	sab 22.03	148	47	sab 22.14	148	46	sab 22.25	148	45	-5
					NSVS 07826147	sab 22.19	256	48	sab 22.30	258	50	sab 22.42	259	52	260
					GU Boo	sab 22.22	264	49	sab 23.08	271	58	sab 23.54	281	66	292
					HAT-192-0001841	sab 22.22	248	43	sab 22.49	251	48	sab 23.16	254	53	199
					NSVS 02502726 II	sab 23.35	130	46	dom 00.36	134	37	dom 01.36	138	30	122
					HW Vir	sab 23.43	11	39	sab 23.53	14	38	dom 00.04	17	38	497
					NN Ser	sab 23.49	301	47	sab 23.50	301	47	sab 23.50	301	47	312
					BS Uma II	sab 23.59	102	67	dom 00.41	106	59	dom 01.24	109	51	323
					GSC 2499 246	dom 00.01	106	41	dom 00.51	112	32	dom 01.42	119	23	233
					NY Vir	dom 00.02	359	46	dom 00.10	2	46	dom 00.19	5	46	481
					NSVS 07826147 II	dom 00.15	273	70	dom 00.27	275	72	dom 00.38	278	74	260
					HAT-225-0003429	dom 00.18	104	37	dom 00.52	109	31	dom 01.26	113	25	251
					V470 Cam	dom 00.21	152	34	dom 00.32	153	33	dom 00.43	154	32	-6
					HAT-196-0006238	dom 02.02	271	62	dom 02.02	271	62	dom 02.03	271	62	48
					HAT-192-0001841 II	dom 02.05	274	84	dom 02.31	304	89	dom 02.58	80	86	199
					NSVS 07826147	dom 02.12	33	85	dom 02.23	51	84	dom 02.35	63	82	261
					NY Vir	dom 02.27	46	35	dom 02.36	48	34	dom 02.45	50	33	481
					CM Dra II	dom 02.33	193	74	dom 03.00	179	75	dom 03.28	166	74	109
					V470 Cam	dom 02.39	163	24	dom 02.50	164	23	dom 03.01	165	23	-6
					DE CVn	dom 02.44	111	59	dom 02.45	112	59	dom 02.45	112	59	315
					NN Ser	dom 02.57	19	60	dom 02.57	19	60	dom 02.57	19	60	313
					HS 2231+2441	dom 03.28	255	21	dom 03.28	255	21	dom 03.28	255	22	-401
dom 31-03-13	18.29	19.03	03.07	03.42	GK Boo	dom 17.45	231	12	dom 18.51	240	22	dom 19.57	248	33	325
					NLTT11748	dom 18.31	88	30	dom 18.32	88	29	dom 18.32	88	29	-340
					V470 Cam	dom 18.43	165	63	dom 18.54	163	63	dom 19.05	161	62	-11
					CU Cnc	dom 19.06	7	67	dom 20.06	39	63	dom 21.05	61	54	204
					NSVS 07826147 II	dom 19.40	238	22	dom 19.52	239	24	dom 20.03	241	25	262
					NSVS 02502726	dom 19.45	156	76	dom 20.45	136	70	dom 21.45	129	61	116
					V608 Aur	dom 20.11	111	42	dom 21.12	117	32	dom 22.12	125	22	-146
					DE CVn	dom 20.13	246	52	dom 20.13	246	52	dom 20.14	246	52	314
					HAT-136-0003262 II	dom 20.33	103	68	dom 21.24	107	59	dom 22.15	111	50	112
					HAT-192-0001841	dom 20.36	237	26	dom 21.03	240	31	dom 21.29	243	35	201
					HAT-225-0003429	dom 20.46	60	75	dom 21.20	74	69	dom 21.54	82	63	245
					YY Gem II	dom 20.48	88	55	dom 20.48	88	55	dom 20.49	88	55	76
					NSVS 01031772	dom 20.55	192	49	dom 21.41	190	50	dom 22.27	187	51	50
					BS UMa	dom 20.57	262	81	dom 21.39	248	88	dom 22.22	98	84	320
					V470 Cam	dom 21.01	149	53	dom 21.12	149	52	dom 21.22	149	51	-11
					NSVS 07826147	dom 21.37	252	41	dom 21.48	253	43	dom 21.59	255	45	262
					NN Ser	dom 21.40	275	24	dom 21.41	275	25	dom 21.41	275	25	317
					GU Boo	dom 21.49	260	44	dom 22.35	267	53	dom 23.22	274	61	294
					NY Vir	dom 21.51	318	37	dom 22.00	320	38	dom 22.08	323	39	483
					GSC 2499 246	dom 22.02	90	62	dom 22.53	98	52	dom 23.43	104	43	227
					HW Vir	dom 22.08	342	38	dom 22.18	345	38	dom 22.28	348	39	497
					V470 Cam	dom 23.18	150	39	dom 23.29	150	38	dom 23.40	151	37	-12
					NSVS 07826147 II	dom 23.33	266	63	dom 23.45	268	65	dom 23.56	270	67	263
					NY Vir	lun 00.16	6	46	lun 00.25	9	46	lun 00.34	12	45	483
					HAT-192-0001841 II	lun 00.18	260	65	lun 00.45	263	70	lun 01.12	266	75	201
					NN Ser	lun 00.48	321	55	lun 00.48	321	55	lun 00.48	321	55	317
					HW Vir	lun 00.56	33	33	lun 01.06	36	32	lun 01.16	39	31	497
					BS Uma II	lun 01.08	108	53	lun 01.51	112	46	lun 02.34	116	39	319
					NSVS 07826147	lun 01.30	307	84	lun 01.41	325	85	lun 01.52	353	86	263
					V470 Cam	lun 01.36	158	28	lun 01.47	159	27	lun 01.58	159	26	-12
					NY Vir	lun 02.42	51	33	lun 02.51	53	31	lun 02.59	55	30	483
					FI Del	lun 02.56	280	33	lun 02.57	280	33	lun 02.57	280	33	-226
					HS 2231+2441	lun 03.21	255	21	lun 03.21	255	21	lun 03.21	255	21	-399
					NSVS 07826147 II	lun 03.26	85	72	lun 03.37	87	70	lun 03.49	89	68	263
lun 01-04-13	18.30	19.04	03.05	03.40	BS Uma II	lun 17.55	249	48	lun 18.38	253	56	lun 19.20	256	64	316
					V912 Per	lun 19.38	119	29	lun 19.38	119	29	lun 19.39	119	29	-297
					HAT-136-0003262	lun 19.55	101	74	lun 20.46	104	65	lun 21.37	108	56	105
					V470 Cam	lun 19.58	153	58	lun 20.09	152	57	lun 20.20	152	56	-17
					HAT-216-0003316	lun 20.00	106	31	lun 20.00	106	31	lun 20.00	106	31	-241
					GSC 2499 246	lun 20.03	47	82	lun 20.54	76	74	lun 21.44	88	64	220
					HW Vir	lun 20.32	317	29	lun 20.43	319	30	lun 20.53	322	31	498
					NSVS 07826147	lun 20.54	247	35	lun 21.06	249	37	lun 21.17	250	39	264
					GU Boo	lun 21.17	256	39	lun 22.03	262	47	lun 22.49	269	56	296
					TrES-Her0-07621	lun 21.23	233	31	lun 22.28	239	41	lun 23.33	244	52	133
					NY Vir	lun 22.06	323	39	lun 22.14	326	40	lun 22.23	328	41	485
					BS UMa	lun 22.07	100	86	lun 22.49	98	78	lun 23.32	101	70	315

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					V470 Cam	lun 22.16	148	45	lun 22.27	148	44	lun 22.37	149	43	-18
					HAT-225-0003429 II	lun 22.22	88	57	lun 22.55	94	51	lun 23.29	99	45	237
					DE CVn	lun 22.26	249	75	lun 22.26	249	75	lun 22.27	249	76	312
					HAT-192-0001841 II	lun 22.32	250	46	lun 22.59	253	51	lun 23.25	255	56	204
					NSVS 02502726	lun 22.37	129	53	lun 23.37	130	44	mar 00.37	134	36	108
					NN Ser	lun 22.39	286	36	lun 22.39	286	36	lun 22.40	286	36	322
					NSVS 07826147 II	lun 22.51	261	56	lun 23.02	263	58	lun 23.14	264	60	265
					HW Vir	lun 23.20	6	39	lun 23.31	9	39	lun 23.41	12	39	498
					NSVS 01031772	lun 23.25	183	52	mar 00.11	179	53	mar 00.57	176	52	46
					CM Dra	mar 00.13	225	61	mar 00.40	223	64	mar 01.07	219	68	110
					GSC 2499 246	mar 00.27	110	34	mar 01.18	117	26	mar 02.08	123	18	219
					NY Vir	mar 00.31	12	45	mar 00.40	15	45	mar 00.48	18	44	485
					V470 Cam	mar 00.34	154	32	mar 00.44	154	31	mar 00.55	155	31	-18
					NSVS 07826147	mar 00.47	283	77	mar 00.59	287	79	mar 01.10	294	81	265
					NN Ser	mar 01.46	348	60	mar 01.47	348	60	mar 01.47	348	60	322
					HW Vir	mar 02.09	52	24	mar 02.19	54	22	mar 02.29	56	21	498
					HAT-192-0001841	mar 02.14	284	87	mar 02.41	71	88	mar 03.08	87	83	204
					BS Uma II	mar 02.18	115	41	mar 03.01	120	34	mar 03.44	124	27	314
					NSVS 07826147 II	mar 02.44	73	79	mar 02.55	77	77	mar 03.07	81	75	265
					V470 Cam	mar 02.51	164	23	mar 03.02	165	22	mar 03.13	166	22	-19
					NY Vir	mar 02.57	55	30	mar 03.05	57	29	mar 03.14	59	27	485
					HS 2231+2441	mar 03.14	254	20	mar 03.14	254	20	mar 03.15	254	21	-396
mar 02-04-13	18.31	19.06	03.03	03.38	V608 Aur II	mar 17.59	88	75	mar 18.59	97	64	mar 20.00	104	53	-64
					GSC 2499 246	mar 18.04	282	72	mar 18.55	307	81	mar 19.45	28	84	214
					NSVS 02502726 II	mar 18.46	189	77	mar 19.46	152	75	mar 20.46	134	68	103
					HAT-225-0003429 II	mar 18.50	310	78	mar 19.24	343	81	mar 19.58	29	80	231
					V470 Cam	mar 18.55	161	62	mar 19.06	159	62	mar 19.17	158	61	-23
					BS Uma II	mar 19.05	256	62	mar 19.47	259	69	mar 20.30	262	77	311
					HAT-136-0003262 II	mar 19.18	101	80	mar 20.09	102	71	mar 21.00	105	62	97
					NY Vir	mar 19.55	293	21	mar 20.03	295	22	mar 20.12	296	24	486
					NSVS 07826147	mar 20.12	243	28	mar 20.23	244	30	mar 20.35	246	32	266
					GU Boo	mar 20.44	252	34	mar 21.30	258	42	mar 22.17	265	50	298
					HAT-192-0001841 II	mar 20.46	239	29	mar 21.12	242	34	mar 21.39	245	38	206
					V470 Cam	mar 21.13	149	51	mar 21.24	148	50	mar 21.35	148	49	-24
					YY Gem	mar 21.39	97	44	mar 21.40	97	44	mar 21.40	97	44	59
					HW Vir	mar 21.45	337	37	mar 21.55	340	37	mar 22.05	343	38	498
					NSVS 07826147 II	mar 22.09	257	49	mar 22.20	258	51	mar 22.31	259	53	266
					NY Vir	mar 22.20	329	41	mar 22.29	331	42	mar 22.37	334	43	486
					GSC 2499 246	mar 22.29	96	55	mar 23.19	102	46	mer 00.09	109	37	212
					BS UMa	mar 23.17	100	72	mar 23.59	103	64	mer 00.42	107	57	311
					GJ 3236	mar 23.20	166	25	mar 23.48	169	23	mer 00.17	171	23	-174
					V470 Cam	mar 23.31	150	37	mar 23.42	151	36	mar 23.52	151	35	-24
					NN Ser	mar 23.37	301	47	mar 23.38	301	47	mar 23.38	301	47	327
					HAT-225-0003429	mar 23.57	103	39	mer 00.31	108	33	mer 01.05	112	27	230
					NSVS 07826147	mer 00.05	273	70	mer 00.16	275	72	mer 00.28	278	74	267
					HAT-145-0001586	mer 00.16	145	85	mer 01.22	113	74	mer 02.28	112	63	300
					TrES-Her0-07621	mer 00.17	247	60	mer 01.22	247	71	mer 02.27	231	82	136
					HAT-192-0001841	mer 00.28	262	68	mer 00.55	265	73	mer 01.21	268	78	206
					HW Vir	mer 00.33	29	35	mer 00.43	32	34	mer 00.54	35	33	498
					DE CVn	mer 00.39	113	79	mer 00.40	113	79	mer 00.40	113	79	310
					NY Vir	mer 00.46	19	44	mer 00.54	22	44	mer 01.03	25	43	487
					NSVS 02502726	mer 01.29	139	29	mer 02.29	145	22	mer 03.29	151	16	101
					V470 Cam	mer 01.49	159	26	mer 01.59	160	26	mer 02.10	161	25	-25
					NSVS 01031772	mer 01.56	172	51	mer 02.42	169	50	mer 03.28	167	48	43
					NSVS 07826147 II	mer 02.01	36	85	mer 02.13	53	84	mer 02.24	64	82	267
					NN Ser	mer 02.45	19	60	mer 02.45	19	60	mer 02.45	19	60	327
					NY Vir	mer 03.11	59	27	mer 03.20	61	26	mer 03.28	63	24	487
mer 03-04-13	18.32	19.07	03.01	03.36	HAT-133-0002525	mer 18.00	104	76	mer 19.09	106	64	mer 20.18	111	52	-58
					HAT-136-0003262	mer 18.41	108	86	mer 19.32	101	77	mer 20.23	103	68	90
					V471 Tau	mer 18.54	92	24	mer 18.54	92	24	mer 18.55	92	24	-352
					NLTT11748	mer 18.55	94	23	mer 18.55	94	23	mer 18.56	94	23	-359
					NSVS 07826147	mer 19.30	238	22	mer 19.41	239	24	mer 19.53	241	26	268
					NSVS 01031772	mer 19.36	194	46	mer 20.22	193	48	mer 21.08	191	49	41
					NY Vir	mer 20.09	297	24	mer 20.18	298	25	mer 20.27	300	27	488
					HW Vir	mer 20.10	313	27	mer 20.20	315	28	mer 20.30	318	30	498
					V470 Cam	mer 20.10	152	56	mer 20.21	151	55	mer 20.32	150	54	-29
					GU Boo	mer 20.12	249	29	mer 20.58	255	37	mer 21.44	261	45	300
					BS Uma II	mer 20.15	261	75	mer 20.57	262	83	mer 21.40	127	89	307
					HAT-225-0003429	mer 20.25	55	76	mer 20.59	71	71	mer 21.33	80	65	224

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					GSC 2499 246	mer 20.30	70	76	mer 21.20	85	67	mer 22.10	94	58	206
					NSVS 07826147 II	mer 21.26	252	42	mer 21.38	253	44	mer 21.49	255	46	268
					NN Ser	mer 21.29	275	24	mer 21.29	275	25	mer 21.29	275	25	331
					NSVS 02502726 II	mer 21.38	129	61	mer 22.38	129	52	mer 23.38	131	43	95
					CM Dra II	mer 21.53	225	43	mer 22.20	226	47	mer 22.47	227	50	112
					V470 Cam	mer 22.28	149	43	mer 22.39	149	42	mer 22.50	149	41	-30
					NY Vir	mer 22.35	334	43	mer 22.43	337	44	mer 22.52	340	44	488
					HAT-192-0001841	mer 22.42	252	50	mer 23.08	255	54	mer 23.35	257	59	208
					HW Vir	mer 22.58	1	39	mer 23.08	4	39	mer 23.18	8	39	498
					NSVS 07826147	mer 23.23	267	63	mer 23.34	268	65	mer 23.45	270	67	268
					BS UMa	gio 00.26	106	59	gio 01.09	110	51	gio 01.52	113	44	306
					NN Ser	gio 00.36	321	55	gio 00.36	321	55	gio 00.37	321	55	331
					V470 Cam	gio 00.46	155	31	gio 00.57	156	30	gio 01.07	156	29	-31
					GSC 2499 246	gio 00.54	115	29	gio 01.44	121	20	gio 02.35	128	13	205
					NY Vir	gio 01.00	25	43	gio 01.09	28	42	gio 01.18	31	42	488
					NSVS 07826147 II	gio 01.19	309	84	gio 01.31	328	85	gio 01.42	357	86	269
					HW Vir	gio 01.46	49	26	gio 01.56	51	24	gio 02.06	53	23	498
					GK Boo	gio 02.01	75	75	gio 03.07	90	63	gio 04.13	100	50	328
					HAT-192-0001841 II	gio 02.24	33	89	gio 02.51	84	84	gio 03.17	90	80	209
					DE CVn	gio 02.52	113	55	gio 02.53	113	55	gio 02.53	113	55	309
					V470 Cam	gio 03.04	166	22	gio 03.14	167	22	gio 03.25	168	21	-31
					NSVS 07826147	gio 03.16	85	72	gio 03.27	87	70	gio 03.38	89	68	269
					NY Vir	gio 03.26	63	24	gio 03.34	65	23	gio 03.43	66	21	488
gio 04-04-13	18.34	19.09	02.59	03.34	NSVS 02502726	gio 17.47	215	74	gio 18.47	182	78	gio 19.47	148	74	89
					HAT-136-0003262 II	gio 18.04	247	87	gio 18.55	102	83	gio 19.46	101	74	82
					GSC 2499 246	gio 18.31	295	78	gio 19.21	357	84	gio 20.12	63	79	199
					V470 Cam	gio 19.08	158	61	gio 19.19	157	60	gio 19.29	155	59	-35
					GU Boo	gio 19.39	245	24	gio 20.25	251	32	gio 21.12	257	40	302
					DE CVn	gio 20.21	247	56	gio 20.21	247	56	gio 20.22	247	56	307
					NY Vir	gio 20.24	301	27	gio 20.33	302	28	gio 20.41	304	30	489
					NSVS 07826147 II	gio 20.44	248	35	gio 20.55	249	37	gio 21.07	250	39	270
					HAT-192-0001841	gio 20.56	241	32	gio 21.22	244	36	gio 21.49	247	41	210
					HW Vir	gio 21.22	333	35	gio 21.33	336	36	gio 21.43	339	37	498
					BS Uma II	gio 21.25	246	89	gio 22.07	98	83	gio 22.50	99	76	302
					V470 Cam	gio 21.25	148	49	gio 21.36	148	48	gio 21.47	148	47	-36
					HAT-225-0003429 II	gio 22.00	87	59	gio 22.34	93	53	gio 23.08	98	46	216
					NSVS 01031772	gio 22.06	187	51	gio 22.52	184	52	gio 23.38	181	53	38
					NN Ser	gio 22.27	286	36	gio 22.27	286	36	gio 22.28	286	36	336
					YY Gem II	gio 22.31	105	33	gio 22.31	105	33	gio 22.31	105	33	42
					NSVS 07826147	gio 22.40	261	56	gio 22.52	263	58	gio 23.03	264	60	270
					NY Vir	gio 22.49	341	44	gio 22.58	344	45	gio 23.07	347	45	490
					GSC 2499 246	gio 22.55	100	49	gio 23.45	107	40	ven 00.36	113	31	198
					V470 Cam	gio 23.43	151	36	gio 23.54	152	35	ven 00.05	153	34	-36
					HW Vir	ven 00.10	25	36	ven 00.21	28	35	ven 00.31	31	34	498
					NSVS 02502726 II	ven 00.30	135	36	ven 01.30	140	28	ven 02.30	146	21	87
					G179-55	ven 00.31	251	75	ven 00.31	251	75	ven 00.32	251	75	220
					NSVS 07826147 II	ven 00.37	283	77	ven 00.48	288	79	ven 01.00	295	81	270
					HAT-192-0001841 II	ven 00.38	264	71	ven 01.04	267	76	ven 01.31	271	81	211
					GK Boo	ven 00.57	25	84	ven 02.03	77	74	ven 03.09	91	62	329
					NY Vir	ven 01.15	31	41	ven 01.24	34	41	ven 01.32	36	40	490
					NN Ser	ven 01.35	348	60	ven 01.35	348	60	ven 01.35	348	60	336
					BS UMa	ven 01.36	112	46	ven 02.19	117	38	ven 03.02	121	32	301
					V470 Cam	ven 02.01	161	25	ven 02.12	162	24	ven 02.23	163	24	-37
					NSVS 07826147	ven 02.33	73	79	ven 02.45	78	77	ven 02.56	81	75	271
					OT Lyr	ven 02.37	279	56	ven 02.37	279	56	ven 02.37	279	56	-47
					FP Sge	ven 03.32	289	48	ven 03.33	289	48	ven 03.33	289	48	-173
ven 05-04-13	18.35	19.10	02.57	03.32	GSC 1941 1746	ven 13.14	258	24	ven 18.41	10	72	sab 00.08	106	19	143
					BS UMa	ven 18.23	253	56	ven 19.06	257	64	ven 19.48	260	72	298
					HAT-225-0003429 II	ven 18.29	304	76	ven 19.03	332	80	ven 19.36	17	81	210
					GU Boo	ven 19.07	241	19	ven 19.53	247	27	ven 20.39	253	35	304
					HAT-192-0001841	ven 19.09	229	16	ven 19.36	232	20	ven 20.03	235	24	212
					V608 Aur II	ven 19.15	100	59	ven 20.16	107	48	ven 21.16	113	38	-89
					CM Dra	ven 19.32	216	27	ven 20.00	218	30	ven 20.27	220	33	113
					HW Vir	ven 19.47	310	25	ven 19.57	312	26	ven 20.07	314	28	498
					NSVS 07826147 II	ven 20.02	243	28	ven 20.13	244	30	ven 20.24	246	32	272
					V470 Cam	ven 20.23	150	54	ven 20.34	150	53	ven 20.44	149	52	-42
					NY Vir	ven 20.39	305	30	ven 20.47	307	31	ven 20.56	309	32	491
					NSVS 02502726	ven 20.39	134	68	ven 21.39	129	59	ven 22.40	129	50	82
					GSC 2499 246	ven 20.56	81	70	ven 21.46	91	61	ven 22.37	98	52	191

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					NSVS 07826147	ven 21.58	257	49	ven 22.09	258	51	ven 22.21	260	53	272
					DE CVn	ven 22.34	246	80	ven 22.34	246	80	ven 22.35	245	80	305
					BS Uma II	ven 22.35	98	78	ven 23.17	101	70	sab 00.00	104	62	297
					HW Vir	ven 22.35	356	39	ven 22.45	360	39	ven 22.55	3	39	498
					V470 Cam	ven 22.41	149	41	ven 22.51	149	40	ven 23.02	150	39	-42
					HAT-192-0001841 II	ven 22.52	254	53	ven 23.18	256	57	ven 23.45	259	62	213
					NY Vir	ven 23.04	347	45	ven 23.13	350	46	ven 23.21	353	46	491
					NN Ser	ven 23.26	301	47	ven 23.26	301	47	ven 23.26	301	47	340
					HAT-225-0003429	ven 23.36	102	40	sab 00.10	106	34	sab 00.44	111	28	208
					GK Boo	ven 23.53	297	79	sab 00.59	35	83	sab 02.05	79	73	329
					NSVS 07826147 II	ven 23.55	273	70	sab 00.06	276	72	sab 00.17	279	75	272
					NSVS 01031772	sab 00.37	176	52	sab 01.23	173	52	sab 02.09	170	50	34
					V470 Cam	sab 00.58	156	29	sab 01.09	157	28	sab 01.20	158	27	-43
					OT Lyr	sab 01.14	265	41	sab 01.14	265	41	sab 01.14	265	41	-42
					GJ 3236	sab 01.23	178	21	sab 01.51	181	21	sab 02.19	184	21	-189
					HW Vir	sab 01.23	45	28	sab 01.33	48	26	sab 01.44	50	25	498
					NY Vir	sab 01.30	36	40	sab 01.38	39	39	sab 01.47	41	37	491
					NSVS 07826147	sab 01.51	38	85	sab 02.02	55	83	sab 02.14	65	82	272
					NN Ser	sab 02.33	19	60	sab 02.33	19	60	sab 02.34	19	60	341
					HAT-192-0001841	sab 02.34	80	86	sab 03.01	89	81	sab 03.27	93	76	213
					FI Del	sab 02.44	282	34	sab 02.44	282	34	sab 02.44	282	35	-195
					BS UMa	sab 02.46	120	33	sab 03.29	125	27	sab 04.11	130	20	296
					V470 Cam	sab 03.16	168	21	sab 03.27	169	21	sab 03.38	170	20	-44
					NSVS 14256825	sab 03.18	299	35	sab 03.28	302	36	sab 03.38	304	38	-172
sab 06-04-13	18.36	19.11	02.55	03.31	GSC 1941 1746 II	sab 16.26	296	60	sab 21.53	85	44	dom 03.20	138	-11	134
					NSVS 01031772	sab 18.17	194	43	sab 19.03	194	45	sab 19.49	193	47	32
					GU Boo	sab 18.34	237	14	sab 19.20	243	22	sab 20.06	250	30	306
					GSC 2499 246	sab 18.57	328	83	sab 19.48	51	81	sab 20.38	77	73	184
					NSVS 07826147 II	sab 19.19	238	22	sab 19.31	240	24	sab 19.42	241	26	273
					V470 Cam	sab 19.20	155	59	sab 19.31	154	59	sab 19.42	153	58	-48
					BS UMa	sab 19.33	259	69	sab 20.15	262	77	sab 20.58	261	85	293
					GJ 3236	sab 19.53	154	37	sab 20.21	155	35	sab 20.50	156	33	-193
					HAT-225-0003429	sab 20.04	49	78	sab 20.38	67	72	sab 21.12	78	66	202
					NY Vir	sab 20.53	309	32	sab 21.02	311	34	sab 21.11	313	35	492
					HW Vir	sab 21.00	329	34	sab 21.10	332	35	sab 21.20	335	36	497
					HAT-192-0001841 II	sab 21.05	243	35	sab 21.32	246	39	sab 21.59	249	44	215
					NSVS 07826147	sab 21.16	252	42	sab 21.27	254	44	sab 21.39	255	46	274
					NN Ser	sab 21.17	275	24	sab 21.17	275	25	sab 21.18	275	25	344
					V470 Cam	sab 21.38	148	47	sab 21.49	148	46	sab 21.59	148	45	-48
					HAT-131-0026711	sab 22.29	138	20	sab 22.29	138	20	sab 22.30	138	20	-192
					GK Boo	sab 22.49	276	69	sab 23.55	301	80	dom 01.01	43	83	330
					NSVS 07826147 II	sab 23.12	267	63	sab 23.24	269	65	sab 23.35	270	67	274
					NY Vir	sab 23.19	354	46	sab 23.27	357	46	sab 23.36	360	46	492
					GSC 2499 246	sab 23.21	105	43	dom 00.12	111	34	dom 01.02	117	25	183
					YY Gem	sab 23.22	113	22	sab 23.23	113	22	sab 23.23	113	22	25
					NSVS 02502726	sab 23.31	131	43	dom 00.31	135	34	dom 01.32	140	27	74
					BS Uma II	sab 23.44	103	64	dom 00.27	107	56	dom 01.10	111	49	292
					HW Vir	sab 23.48	20	37	sab 23.58	24	36	dom 00.08	26	36	497
					OT Lyr	sab 23.50	254	27	sab 23.51	254	27	sab 23.51	254	27	-37
					V470 Cam	sab 23.56	153	34	dom 00.06	153	33	dom 00.17	154	32	-49
					NN Ser	dom 00.24	321	55	dom 00.25	321	55	dom 00.25	321	55	345
					DE CVn	dom 00.47	110	75	dom 00.48	110	75	dom 00.48	110	75	303
					HAT-192-0001841	dom 00.48	266	75	dom 01.14	270	80	dom 01.41	276	85	215
					NSVS 07826147	dom 01.09	311	84	dom 01.20	331	85	dom 01.32	0	86	274
					NY Vir	dom 01.44	42	37	dom 01.53	44	36	dom 02.01	46	35	492
					FP Sge	dom 01.46	270	30	dom 01.46	270	30	dom 01.47	270	30	-161
					CM Dra	dom 01.59	196	74	dom 02.26	183	75	dom 02.53	169	74	114
					V470 Cam	dom 02.13	163	24	dom 02.24	164	23	dom 02.35	165	23	-49
					HAT-196-0006238	dom 02.50	290	76	dom 02.50	290	76	dom 02.51	290	76	78
					NSVS 07826147 II	dom 03.05	85	72	dom 03.17	88	69	dom 03.28	90	67	274
					NSVS 14256825	dom 03.08	298	34	dom 03.18	301	35	dom 03.28	303	37	-165
dom 07-04-13	18.37	19.13	02.53	03.29	HAT-145-0001586	dom 18.34	237	37	dom 19.40	243	48	dom 20.46	247	59	293
					YY Gem	dom 18.55	66	70	dom 18.55	66	70	dom 18.55	66	70	18
					V449 Per	dom 18.56	118	22	dom 18.57	118	22	dom 18.57	118	22	-394
					HAT-192-0001841 II	dom 19.19	231	19	dom 19.46	234	23	dom 20.12	238	27	217
					HW Vir	dom 19.24	306	23	dom 19.34	309	24	dom 19.45	311	26	497
					NSVS 02502726 II	dom 19.40	146	74	dom 20.40	132	66	dom 21.41	129	58	68
					NSVS 07826147	dom 20.33	248	35	dom 20.45	249	37	dom 20.56	250	39	275
					V470 Cam	dom 20.35	149	52	dom 20.46	149	51	dom 20.57	149	50	-54

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					BS UMa	dom 20.43	262	83	dom 21.25	121	89	dom 22.08	98	81	288
					NSVS 01031772	dom 20.47	191	49	dom 21.33	189	51	dom 22.19	186	52	29
					NY Vir	dom 21.08	314	35	dom 21.17	316	36	dom 21.25	318	37	493
					GSC 2499 246	dom 21.22	88	64	dom 22.13	96	55	dom 23.03	103	45	176
					HAT-225-0003429 II	dom 21.39	85	61	dom 22.13	91	54	dom 22.47	96	48	194
					GK Boo	dom 21.45	265	57	dom 22.51	277	70	dom 23.57	306	81	330
					HW Vir	dom 22.12	352	39	dom 22.23	355	39	dom 22.33	358	39	497
					NN Ser	dom 22.15	286	36	dom 22.16	286	36	dom 22.16	286	36	349
					NSVS 07826147 II	dom 22.30	262	56	dom 22.41	263	58	dom 22.53	265	60	275
					V470 Cam	dom 22.53	150	39	dom 23.04	150	38	dom 23.14	151	37	-55
					HAT-192-0001841	dom 23.01	255	56	dom 23.28	258	61	dom 23.55	261	66	217
					NY Vir	dom 23.33	0	46	dom 23.42	3	46	dom 23.51	6	46	493
					HAT-136-0003262 II	lun 00.00	124	28	lun 00.51	130	20	lun 01.42	137	13	57
					NSVS 07826147	lun 00.26	284	78	lun 00.38	289	80	lun 00.49	296	82	275
					BS Uma II	lun 00.54	110	51	lun 01.37	114	44	lun 02.20	118	36	287
					HW Vir	lun 01.00	42	30	lun 01.11	44	28	lun 01.21	46	27	497
					V470 Cam	lun 01.11	158	28	lun 01.21	159	27	lun 01.32	160	26	-55
					NN Ser	lun 01.23	348	60	lun 01.23	348	60	lun 01.23	348	60	349
					NY Vir	lun 01.59	47	35	lun 02.07	49	34	lun 02.16	51	32	493
					NSVS 07826147 II	lun 02.23	74	79	lun 02.34	78	77	lun 02.46	82	74	276
					HAT-192-0001841 II	lun 02.44	87	83	lun 03.10	92	78	lun 03.37	95	73	217
					NSVS 14256825	lun 02.59	297	33	lun 03.09	299	35	lun 03.19	302	36	-158
					DE CVn	lun 03.00	115	51	lun 03.01	115	51	lun 03.01	115	51	301
lun 08-04-13	18.39	19.14	02.51	03.27	HAT-225-0003429 II	lun 18.08	299	75	lun 18.41	322	79	lun 19.15	4	81	188
					NLTT11748	lun 18.39	94	22	lun 18.39	94	22	lun 18.39	94	22	-388
					GSC 2499 246	lun 19.24	31	83	lun 20.14	72	76	lun 21.04	86	67	169
					V470 Cam	lun 19.32	153	58	lun 19.43	152	57	lun 19.54	151	56	-60
					NSVS 07826147	lun 19.51	243	29	lun 20.03	245	31	lun 20.14	246	33	277
					DE CVn	lun 20.29	249	60	lun 20.29	249	60	lun 20.30	249	60	300
					V608 Aur II	lun 20.32	110	43	lun 21.32	116	33	lun 22.32	124	23	-113
					HW Vir	lun 20.37	325	33	lun 20.47	327	34	lun 20.57	330	35	496
					GK Boo	lun 20.41	257	46	lun 21.47	266	58	lun 22.53	279	71	331
					HAT-192-0001841	lun 21.15	245	38	lun 21.42	248	42	lun 22.08	251	47	219
					NY Vir	lun 21.23	319	37	lun 21.31	321	39	lun 21.40	324	40	494
					NSVS 07826147 II	lun 21.48	257	49	lun 21.59	258	51	lun 22.10	260	53	277
					V470 Cam	lun 21.50	148	45	lun 22.01	148	44	lun 22.12	149	43	-60
					BS UMa	lun 21.53	98	83	lun 22.35	99	75	lun 23.18	102	68	283
					HAT-131-0026711	lun 22.17	138	21	lun 22.18	138	21	lun 22.18	138	21	-206
					NSVS 02502726 II	lun 22.32	129	50	lun 23.32	132	41	mar 00.33	136	33	60
					NN Ser	lun 23.14	301	47	lun 23.14	301	47	lun 23.15	301	47	353
					HAT-225-0003429	lun 23.15	101	42	lun 23.48	105	36	mar 00.22	110	30	186
					NSVS 01031772	lun 23.18	181	53	mar 00.04	178	53	mar 00.49	175	52	26
					HAT-136-0003262	lun 23.23	121	33	mar 00.14	126	25	mar 01.05	132	18	49
					HW Vir	lun 23.25	16	38	lun 23.35	19	37	lun 23.45	22	37	496
					CM Dra II	lun 23.38	226	60	mar 00.06	223	63	mar 00.33	220	67	115
					NSVS 07826147	lun 23.44	274	71	lun 23.56	276	73	mar 00.07	279	75	277
					GSC 2499 246	lun 23.48	109	37	mar 00.38	115	28	mar 01.29	122	20	168
					NY Vir	lun 23.48	7	46	lun 23.57	10	46	mar 00.05	13	45	494
					V470 Cam	mar 00.08	154	32	mar 00.19	154	31	mar 00.30	155	30	-61
					HAT-192-0001841 II	mar 00.57	268	78	mar 01.24	273	83	mar 01.51	289	88	219
					MR Del	mar 01.27	277	16	mar 02.20	287	25	mar 03.12	298	34	-174
					NSVS 07826147 II	mar 01.41	41	85	mar 01.52	56	83	mar 02.03	66	81	277
					BS Uma II	mar 02.04	117	38	mar 02.47	121	31	mar 03.29	126	25	282
					NY Vir	mar 02.13	51	32	mar 02.22	53	31	mar 02.31	55	30	494
					NN Ser	mar 02.21	19	60	mar 02.22	19	60	mar 02.22	19	60	353
					V470 Cam	mar 02.26	165	23	mar 02.36	166	22	mar 02.47	167	22	-62
					NSVS 14256825	mar 02.49	296	32	mar 02.59	298	34	mar 03.09	300	35	-150
mar 09-04-13	18.40	19.16	02.49	03.25	V470 Cam	mar 18.30	161	62	mar 18.41	159	61	mar 18.51	158	61	-66
					NSVS 02502726	mar 18.41	173	77	mar 19.42	143	73	mar 20.42	131	65	55
					BS Uma II	mar 18.51	257	64	mar 19.33	260	72	mar 20.16	262	80	278
					HW Vir	mar 19.02	303	20	mar 19.12	305	22	mar 19.22	308	23	496
					NSVS 07826147	mar 19.09	238	22	mar 19.20	240	24	mar 19.32	241	26	278
					HAT-192-0001841	mar 19.29	233	22	mar 19.55	237	26	mar 20.22	240	30	221
					GK Boo	mar 19.37	250	36	mar 20.43	258	47	mar 21.49	267	60	331
					HAT-225-0003429	mar 19.43	41	79	mar 20.17	63	74	mar 20.51	75	68	180
					YY Gem II	mar 19.46	83	60	mar 19.47	83	60	mar 19.47	83	59	1
					V470 Cam	mar 20.47	149	51	mar 20.58	148	49	mar 21.09	148	48	-66
					NN Ser	mar 21.05	275	24	mar 21.05	275	25	mar 21.06	275	25	357
					NSVS 07826147 II	mar 21.05	252	42	mar 21.17	254	44	mar 21.28	255	46	278

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					NY Vir	mar 21.37	324	40	mar 21.46	326	41	mar 21.54	329	41	495
					GSC 2499 246	mar 21.49	94	58	mar 22.39	101	48	mar 23.30	107	39	161
					HW Vir	mar 21.50	347	38	mar 22.00	350	39	mar 22.10	353	39	496
					GJ 3236	mar 21.56	162	28	mar 22.24	164	26	mar 22.52	166	25	-207
					DE CVn	mar 22.42	235	83	mar 22.42	235	83	mar 22.43	234	83	297
					HAT-136-0003262 II	mar 22.46	117	39	mar 23.37	122	30	mer 00.28	128	23	42
					NSVS 07826147	mar 23.02	267	63	mar 23.13	269	66	mar 23.25	271	68	278
					BS UMa	mar 23.02	101	70	mar 23.45	104	62	mer 00.28	108	54	277
					V470 Cam	mar 23.05	151	37	mar 23.16	151	36	mar 23.27	152	35	-67
					HAT-192-0001841 II	mar 23.11	257	59	mar 23.38	260	64	mer 00.04	262	69	221
					NY Vir	mer 00.03	13	45	mer 00.11	16	45	mer 00.20	19	44	495
					NN Ser	mer 00.12	321	55	mer 00.13	321	55	mer 00.13	321	55	357
					HW Vir	mer 00.38	38	32	mer 00.48	40	30	mer 00.58	43	29	495
					NSVS 07826147 II	mer 00.58	313	84	mer 01.10	334	86	mer 01.21	4	86	278
					V470 Cam	mer 01.23	159	26	mer 01.34	160	26	mer 01.45	161	25	-67
					NSVS 01031772	mer 01.48	171	50	mer 02.34	168	49	mer 03.20	167	47	22
					NY Vir	mer 02.28	56	30	mer 02.37	58	28	mer 02.45	59	27	495
					MR Del	mer 02.30	290	28	mer 03.22	301	37	mer 04.15	315	44	-166
					NSVS 14256825	mer 02.40	294	31	mer 02.50	297	33	mer 03.00	299	34	-143
					HAT-192-0001841	mer 02.53	90	80	mer 03.20	94	75	mer 03.47	97	70	221
					NSVS 07826147	mer 02.55	86	71	mer 03.06	88	69	mer 03.18	90	67	278
					NN Ser	mer 03.20	45	54	mer 03.20	45	53	mer 03.20	45	53	358
mer 10-04-13	18.41	19.17	02.47	03.23	V608 Aur	mer 18.19	103	55	mer 19.20	109	44	mer 20.20	116	34	-222
					GK Boo	mer 18.33	243	25	mer 19.39	251	37	mer 20.45	259	48	331
					NY Vir	mer 19.26	294	21	mer 19.35	295	23	mer 19.44	297	24	495
					NSVS 01031772	mer 19.28	193	47	mer 20.14	192	48	mer 21.00	190	50	20
					V470 Cam	mer 19.45	152	56	mer 19.56	151	55	mer 20.06	150	54	-72
					GSC 2499 246	mer 19.50	64	79	mer 20.40	82	70	mer 21.31	92	60	154
					BS Uma II	mer 20.01	262	77	mer 20.43	261	85	mer 21.26	102	87	273
					HW Vir	mer 20.14	321	31	mer 20.24	324	32	mer 20.35	326	33	495
					NSVS 07826147 II	mer 20.23	248	35	mer 20.34	249	37	mer 20.46	251	39	279
					TrES-Her0-07621	mer 20.35	232	29	mer 21.40	238	39	mer 22.44	243	50	152
					HAT-225-0003429 II	mer 21.18	83	62	mer 21.52	89	56	mer 22.26	95	50	172
					CM Dra	mer 21.18	225	42	mer 21.45	226	46	mer 22.13	227	49	116
					HAT-192-0001841 II	mer 21.25	247	41	mer 21.51	250	46	mer 22.18	252	50	223
					NSVS 02502726	mer 21.33	129	57	mer 22.34	129	48	mer 23.34	132	40	47
					NY Vir	mer 21.52	329	42	mer 22.00	332	42	mer 22.09	335	43	495
					V470 Cam	mer 22.03	149	43	mer 22.13	149	42	mer 22.24	149	41	-73
					NN Ser	mer 22.04	286	36	mer 22.04	286	36	mer 22.04	286	36	361
					HAT-131-0026711	mer 22.06	137	21	mer 22.06	137	21	mer 22.06	137	21	-220
					HAT-136-0003262	mer 22.09	114	44	mer 23.00	119	36	mer 23.51	124	28	34
					NSVS 07826147	mer 22.20	262	56	mer 22.31	263	58	mer 22.42	265	61	280
					HAT-145-0001586	mer 22.46	236	81	mer 23.52	136	84	gio 00.58	113	73	287
					HW Vir	mer 23.02	11	39	mer 23.13	15	38	mer 23.23	18	38	495
					BS UMa	gio 00.12	107	56	gio 00.55	111	49	gio 01.38	115	41	272
					GSC 2499 246	gio 00.14	113	31	gio 01.05	119	22	gio 01.55	126	14	153
					NSVS 07826147 II	gio 00.16	284	78	gio 00.27	289	80	gio 00.39	296	82	280
					NY Vir	gio 00.17	20	44	gio 00.26	23	44	gio 00.35	26	43	495
					V470 Cam	gio 00.20	155	30	gio 00.31	156	30	gio 00.42	157	29	-73
					DE CVn	gio 00.55	110	71	gio 00.56	110	70	gio 00.56	110	70	295
					HAT-192-0001841	gio 01.07	271	81	gio 01.34	280	86	gio 02.00	58	89	223
					NN Ser	gio 01.11	348	60	gio 01.11	348	60	gio 01.12	348	60	361
					NSVS 07826147	gio 02.12	75	78	gio 02.24	79	76	gio 02.35	82	74	280
					NSVS 14256825	gio 02.30	293	30	gio 02.40	295	32	gio 02.50	298	33	-135
					FI Del	gio 02.31	283	36	gio 02.31	283	36	gio 02.32	283	36	-163
					V470 Cam	gio 02.38	166	22	gio 02.49	168	21	gio 03.00	169	21	-74
					NY Vir	gio 02.43	60	27	gio 02.51	62	25	gio 03.00	63	24	495
gio 11-04-13	18.42	19.19	02.45	03.22	NSVS 02502726 II	gio 17.42	205	76	gio 18.43	167	77	gio 19.43	140	72	41
					V470 Cam	gio 18.42	158	61	gio 18.53	156	60	gio 19.04	155	59	-78
					HAT-192-0001841 II	gio 19.39	235	24	gio 20.05	239	28	gio 20.32	242	33	224
					NSVS 07826147 II	gio 19.41	243	29	gio 19.52	245	31	gio 20.04	246	33	281
					NY Vir	gio 19.41	297	24	gio 19.50	299	26	gio 19.58	301	27	495
					YY Gem	gio 20.38	93	49	gio 20.38	93	48	gio 20.38	93	48	-16
					V470 Cam	gio 21.00	148	49	gio 21.11	148	47	gio 21.21	148	46	-78
					CU Cnc	gio 21.09	73	46	gio 22.09	85	35	gio 23.09	95	24	115
					BS Uma II	gio 21.11	117	89	gio 21.53	98	81	gio 22.36	100	73	267
					HW Vir	gio 21.27	342	38	gio 21.37	346	38	gio 21.47	349	39	494
					HAT-136-0003262 II	gio 21.32	111	50	gio 22.23	116	41	gio 23.14	121	33	26
					NSVS 07826147	gio 21.37	257	49	gio 21.49	258	51	gio 22.00	260	53	281

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					NSVS 01031772	gio 21.59	186	52	gio 22.45	183	52	gio 23.30	179	53	17
					NY Vir	gio 22.06	335	43	gio 22.15	338	44	gio 22.24	341	44	496
					GSC 2499 246	gio 22.15	99	51	gio 23.06	105	42	gio 23.56	111	33	146
					HAT-225-0003429	gio 22.53	99	44	gio 23.27	104	38	ven 00.01	108	32	164
					NN Ser	gio 23.02	301	47	gio 23.03	301	47	gio 23.03	301	47	365
					V470 Cam	gio 23.18	152	35	gio 23.28	152	34	gio 23.39	153	34	-79
					HAT-192-0001841	gio 23.21	259	62	gio 23.48	262	67	ven 00.14	264	72	225
					TrES-Her0-07621	gio 23.29	246	58	ven 00.34	247	69	ven 01.38	238	80	154
					NSVS 07826147 II	gio 23.34	274	71	gio 23.45	276	73	gio 23.56	279	75	281
					HW Vir	ven 00.15	34	33	ven 00.25	37	32	ven 00.35	39	31	493
					NSVS 02502726	ven 00.25	136	33	ven 01.26	142	25	ven 02.26	148	19	39
					NY Vir	ven 00.32	26	43	ven 00.41	29	42	ven 00.49	31	41	496
					BS UMa	ven 01.22	114	43	ven 02.05	118	36	ven 02.47	123	29	267
					NSVS 07826147	ven 01.30	43	85	ven 01.42	57	83	ven 01.53	67	81	281
					V470 Cam	ven 01.35	161	25	ven 01.46	162	24	ven 01.57	163	24	-80
					NN Ser	ven 02.10	19	60	ven 02.10	19	60	ven 02.10	19	60	365
					NSVS 14256825	ven 02.21	292	29	ven 02.31	294	31	ven 02.41	296	33	-128
					G179-55	ven 02.55	109	73	ven 02.55	109	73	ven 02.56	109	73	228
					NY Vir	ven 02.57	64	24	ven 03.06	65	22	ven 03.15	67	21	496
					DE CVn	ven 03.08	116	47	ven 03.09	116	47	ven 03.09	116	47	292
ven 12-04-13	18.44	19.20	02.43	03.20	BS UMa	ven 18.09	254	59	ven 18.51	258	66	ven 19.34	261	74	263
					CM Dra II	ven 18.58	215	26	ven 19.25	217	29	ven 19.52	220	32	116
					NSVS 07826147 II	ven 18.58	239	23	ven 19.10	240	24	ven 19.21	241	26	282
					V912 Per	ven 19.01	120	28	ven 19.01	120	28	ven 19.02	120	28	-361
					HAT-225-0003429	ven 19.22	32	80	ven 19.56	59	76	ven 20.30	73	70	157
					HW Vir	ven 19.52	317	29	ven 20.02	320	30	ven 20.12	322	32	492
					NY Vir	ven 19.56	301	27	ven 20.04	303	29	ven 20.13	305	30	496
					V470 Cam	ven 19.57	150	54	ven 20.08	150	53	ven 20.19	149	52	-84
					GSC 2499 246	ven 20.16	78	73	ven 21.07	89	63	ven 21.57	97	54	139
					NSVS 02502726 II	ven 20.35	131	65	ven 21.35	128	56	ven 22.35	130	47	33
					DE CVn	ven 20.37	250	64	ven 20.37	250	64	ven 20.38	250	64	290
					NN Ser	ven 20.53	275	24	ven 20.54	275	25	ven 20.54	275	25	368
					HAT-136-0003262	ven 20.55	108	56	ven 21.46	113	47	ven 22.37	117	38	18
					NSVS 07826147	ven 20.55	253	42	ven 21.06	254	44	ven 21.18	255	46	282
					HAT-192-0001841	ven 21.35	249	44	ven 22.01	251	49	ven 22.28	254	53	226
					HAT-131-0026711	ven 21.54	137	22	ven 21.54	137	22	ven 21.54	137	22	-233
					V470 Cam	ven 22.15	149	41	ven 22.26	149	40	ven 22.36	150	39	-85
					BS Uma II	ven 22.20	99	75	ven 23.03	102	67	ven 23.46	105	60	262
					NY Vir	ven 22.21	342	44	ven 22.30	345	45	ven 22.38	348	45	496
					HW Vir	ven 22.40	7	39	ven 22.50	10	39	ven 23.00	13	38	492
					NSVS 07826147 II	ven 22.51	267	64	ven 23.03	269	66	ven 23.14	271	68	282
					GJ 3236	ven 23.58	173	22	sab 00.26	176	21	sab 00.55	178	21	-221
					NN Ser	sab 00.01	321	55	sab 00.01	321	55	sab 00.01	321	55	368
					HAT-225-0003429 II	sab 00.29	113	26	sab 01.03	117	20	sab 01.37	122	15	155
					NSVS 01031772	sab 00.29	175	52	sab 01.15	172	51	sab 02.01	169	50	13
					V470 Cam	sab 00.33	156	29	sab 00.43	157	28	sab 00.54	158	27	-85
					NY Vir	sab 00.47	32	41	sab 00.55	34	40	sab 01.04	37	39	496
					NSVS 07826147	sab 00.48	315	84	sab 00.59	337	86	sab 01.11	8	86	282
					HAT-192-0001841 II	sab 01.17	276	84	sab 01.44	328	89	sab 02.10	82	85	226
					HW Vir	sab 01.28	52	23	sab 01.38	55	22	sab 01.48	57	20	492
					NSVS 14256825	sab 02.11	291	28	sab 02.21	293	30	sab 02.31	295	32	-121
					BS UMa	sab 02.32	121	31	sab 03.15	126	25	sab 03.57	131	18	261
					NSVS 07826147 II	sab 02.44	86	71	sab 02.56	88	69	sab 03.07	90	67	282
					OT Lyr	sab 02.49	290	64	sab 02.49	290	64	sab 02.50	290	64	-4
					V470 Cam	sab 02.50	168	21	sab 03.01	169	21	sab 03.12	171	20	-86
					NN Ser	sab 03.08	45	54	sab 03.08	45	53	sab 03.09	45	53	369
sab 13-04-13	18.45	19.22	02.41	03.18	NSVS 01031772	sab 18.09	194	44	sab 18.55	194	46	sab 19.41	193	48	11
					GSC 2499 246	sab 18.18	312	82	sab 19.08	37	83	sab 19.58	73	75	132
					GJ 3236	sab 18.29	152	42	sab 18.57	153	40	sab 19.25	154	37	-224
					V470 Cam	sab 18.54	155	59	sab 19.05	154	58	sab 19.16	153	57	-90
					BS UMa	sab 19.19	260	72	sab 20.01	262	80	sab 20.44	255	88	257
					V608 Aur	sab 19.36	112	39	sab 20.36	119	29	sab 21.36	127	20	-244
					HAT-192-0001841	sab 19.48	238	27	sab 20.15	241	31	sab 20.42	244	36	228
					NY Vir	sab 20.10	305	30	sab 20.19	307	31	sab 20.27	309	33	496
					NSVS 07826147	sab 20.13	248	36	sab 20.24	249	38	sab 20.35	251	40	283
					HAT-136-0003262 II	sab 20.18	105	62	sab 21.09	110	53	sab 22.00	114	44	11
					HAT-225-0003429 II	sab 20.57	81	64	sab 21.31	88	58	sab 22.05	93	51	149
					HW Vir	sab 21.04	338	37	sab 21.14	341	37	sab 21.25	344	38	491
					V470 Cam	sab 21.12	148	47	sab 21.23	148	45	sab 21.34	148	44	-90

Day	Sun -12°	Sun -18°	Sun -18°	Sun -12°	Star Name	Eclipse starts	Azi	Alt	Time of minimum	Azi	Alt	Eclipse ends	Azi	Alt	Helio Corr
					YY Gem II	sab 21.29	102	38	sab 21.29	102	38	sab 21.30	102	38	-33
					NN Ser	sab 21.52	286	36	sab 21.52	286	36	sab 21.53	286	36	372
					NSVS 07826147 II	sab 22.09	262	57	sab 22.20	263	59	sab 22.32	265	61	283
					NY Vir	sab 22.36	348	45	sab 22.44	351	46	sab 22.53	354	46	496
					GSC 2499 246	sab 22.42	103	45	sab 23.32	109	36	dom 00.23	116	27	130
					DE CVn	sab 22.50	199	86	sab 22.50	199	86	sab 22.51	198	86	288
					NSVS 02502726 II	sab 23.27	133	39	dom 00.27	137	31	dom 01.27	143	24	25
					V470 Cam	sab 23.30	153	34	sab 23.41	153	33	sab 23.52	154	32	-91
					BS Uma II	sab 23.30	104	62	dom 00.13	108	54	dom 00.56	112	47	256
					HAT-192-0001841 II	sab 23.31	261	65	sab 23.57	263	70	dom 00.24	266	75	228
					HW Vir	sab 23.52	30	35	dom 00.02	33	34	dom 00.13	35	33	491
					NSVS 07826147	dom 00.06	285	78	dom 00.17	290	80	dom 00.28	298	82	283
					NN Ser	dom 00.59	348	60	dom 01.00	348	60	dom 01.00	349	60	372
					NY Vir	dom 01.01	37	39	dom 01.10	40	38	dom 01.18	42	37	496
					CM Dra II	dom 01.24	199	74	dom 01.52	186	75	dom 02.19	172	75	117
					OT Lyr	dom 01.26	272	49	dom 01.26	272	50	dom 01.27	273	50	1
					V470 Cam	dom 01.48	163	24	dom 01.58	164	23	dom 02.09	165	23	-92
					NSVS 14256825	dom 02.01	290	27	dom 02.11	292	29	dom 02.22	294	31	-113
					NSVS 07826147 II	dom 02.02	75	78	dom 02.13	79	76	dom 02.25	82	74	283
					GU Boo	dom 02.30	75	69	dom 03.16	86	61	dom 04.03	94	52	316
					FP Sge	dom 03.15	294	51	dom 03.16	294	51	dom 03.16	294	52	-117
dom 14-04-13	18.46	19.23	02.39	03.16	GSC 1941 1746	dom 14.44	279	47	dom 20.11	69	56	lun 01.38	125	-1	68
					HW Vir	dom 19.29	314	27	dom 19.39	316	29	dom 19.49	319	30	490
					NSVS 07826147	dom 19.30	243	29	dom 19.42	245	31	dom 19.53	246	33	284
					NSVS 02502726	dom 19.36	139	71	dom 20.36	130	63	dom 21.36	128	55	19
					HAT-136-0003262	dom 19.41	103	68	dom 20.32	107	58	dom 21.23	111	49	3
					V470 Cam	dom 20.10	149	52	dom 20.20	149	51	dom 20.31	149	50	-96
					NY Vir	dom 20.25	310	33	dom 20.33	312	34	dom 20.42	314	35	496
					BS UMa	dom 20.29	261	86	dom 21.11	101	86	dom 21.54	98	79	252
					NSVS 01031772	dom 20.40	190	50	dom 21.26	188	51	dom 22.11	184	52	8
					GSC 2499 246	dom 20.43	86	66	dom 21.33	94	57	dom 22.24	101	48	123
					NSVS 07826147 II	dom 21.27	257	50	dom 21.38	259	52	dom 21.50	260	54	284
					HAT-131-0026711	dom 21.42	136	22	dom 21.42	136	22	dom 21.43	136	22	-246
					HAT-192-0001841 II	dom 21.44	250	47	dom 22.11	253	52	dom 22.38	256	57	229
					HW Vir	dom 22.17	2	39	dom 22.27	5	39	dom 22.37	8	39	489
					V470 Cam	dom 22.27	150	39	dom 22.38	150	38	dom 22.49	151	37	-97
					HAT-225-0003429	dom 22.32	98	46	dom 23.06	103	39	dom 23.40	107	33	141
					NY Vir	dom 22.50	355	46	dom 22.59	358	46	dom 23.08	1	46	496
					NN Ser	dom 22.50	301	47	dom 22.51	301	47	dom 22.51	301	47	375
					NSVS 07826147	dom 23.23	274	71	dom 23.35	277	73	dom 23.46	280	75	284
					RX J2130.6+4710	lun 00.00	225	22	lun 00.01	225	22	lun 00.01	225	22	-226
					OT Lyr	lun 00.03	260	35	lun 00.03	260	35	lun 00.03	260	35	6
					BS Uma II	lun 00.40	111	49	lun 01.23	115	41	lun 02.05	119	34	251
					V470 Cam	lun 00.45	158	27	lun 00.56	159	27	lun 01.07	160	26	-97
					DE CVn	lun 01.03	110	66	lun 01.03	110	66	lun 01.04	110	66	285
					HW Vir	lun 01.05	49	26	lun 01.15	51	24	lun 01.25	54	23	489
					NY Vir	lun 01.16	43	37	lun 01.24	45	36	lun 01.33	47	35	496
					NSVS 07826147 II	lun 01.20	45	84	lun 01.31	59	83	lun 01.43	67	81	284
					HAT-192-0001841	lun 01.27	289	88	lun 01.53	76	87	lun 02.20	88	82	230
					GK Boo	lun 01.45	83	70	lun 02.51	94	58	lun 03.57	103	46	330
					NSVS 14256825	lun 01.52	289	26	lun 02.02	291	28	lun 02.12	293	30	-106
					GU Boo	lun 01.58	65	74	lun 02.44	80	66	lun 03.30	89	57	317
					NN Ser	lun 01.58	19	60	lun 01.58	19	60	lun 01.58	19	60	376
					V470 Cam	lun 03.03	170	20	lun 03.13	172	20	lun 03.24	173	20	-98