

0.985653269 Average Angle/Day
 3.98891967 Minutes per degree of Earth's Rotation

0.397948631 Earth's Tilt (sine)
 0.917407699 Earth's Tilt (cosine)
 78.746118 Value of v on March 21

N	EOT	e	e	EOT	EOT	w	DECLINATION
(Eccentric)			(Adjust)	(Tilt)	(Total)		
Jan-01 1	0.13	-77.87	-77.87	-4.21	-4.08	-79.76	-23.06
Jan-02 2	0.00	-76.88	-76.88	-4.53	-4.53	-78.75	-22.97
Jan-03 3	-0.13	-75.90	-75.90	-4.84	-4.97	-77.73	-22.88
Jan-04 4	-0.26	-74.91	-74.91	-5.14	-5.40	-76.71	-22.79
Jan-05 5	-0.39	-73.92	-73.92	-5.44	-5.83	-75.69	-22.68
Jan-06 6	-0.53	-72.94	-72.94	-5.73	-6.25	-74.67	-22.57
Jan-07 7	-0.66	-71.95	-71.95	-6.01	-6.66	-73.65	-22.45
Jan-08 8	-0.79	-70.97	-70.97	-6.28	-7.07	-72.63	-22.32
Jan-09 9	-0.92	-69.98	-69.98	-6.55	-7.46	-71.62	-22.19
Jan-10 10	-1.05	-69.00	-69.00	-6.80	-7.85	-70.60	-22.05
Jan-11 11	-1.18	-68.01	-68.01	-7.05	-8.23	-69.58	-21.90
Jan-12 12	-1.31	-67.02	-67.02	-7.29	-8.60	-68.56	-21.74
Jan-13 13	-1.44	-66.04	-66.04	-7.52	-8.96	-67.54	-21.58
Jan-14 14	-1.57	-65.05	-65.05	-7.74	-9.31	-66.53	-21.41
Jan-15 15	-1.69	-64.07	-64.07	-7.95	-9.65	-65.51	-21.23
Jan-16 16	-1.82	-63.08	-63.08	-8.15	-9.97	-64.49	-21.05
Jan-17 17	-1.95	-62.10	-62.10	-8.34	-10.29	-63.47	-20.86
Jan-18 18	-2.08	-61.11	-61.11	-8.52	-10.60	-62.46	-20.66
Jan-19 19	-2.20	-60.12	-60.12	-8.69	-10.89	-61.44	-20.46
Jan-20 20	-2.33	-59.14	-59.14	-8.85	-11.17	-60.42	-20.25
Jan-21 21	-2.45	-58.15	-58.15	-8.99	-11.44	-59.40	-20.03
Jan-22 22	-2.58	-57.17	-57.17	-9.13	-11.70	-58.39	-19.81
Jan-23 23	-2.70	-56.18	-56.18	-9.25	-11.95	-57.37	-19.58
Jan-24 24	-2.82	-55.20	-55.20	-9.36	-12.19	-56.35	-19.35
Jan-25 25	-2.94	-54.21	-54.21	-9.46	-12.41	-55.34	-19.11
Jan-26 26	-3.07	-53.23	-53.23	-9.55	-12.62	-54.32	-18.86
Jan-27 27	-3.19	-52.24	-52.24	-9.63	-12.82	-53.31	-18.61
Jan-28 28	-3.30	-51.25	-51.25	-9.70	-13.00	-52.29	-18.35
Jan-29 29	-3.42	-50.27	-50.27	-9.75	-13.17	-51.28	-18.09
Jan-30 30	-3.54	-49.28	-49.28	-9.79	-13.33	-50.26	-17.82
Jan-31 31	-3.66	-48.30	-48.30	-9.82	-13.48	-49.25	-17.54

N	EOT	e	e	EOT	EOT	w	DECLINATION
(Eccentric)			(Adjust)	(Tilt)	(Total)		
Feb-01 32	-3.77		-47.31	-47.31	-9.84	-13.61	-48.23 -17.27
Feb-02 33	-3.88		-46.33	-46.33	-9.85	-13.73	-47.22 -16.98
Feb-03 34	-4.00		-45.34	-45.34	-9.84	-13.84	-46.20 -16.69
Feb-04 35	-4.11		-44.35	-44.35	-9.83	-13.93	-45.19 -16.40
Feb-05 36	-4.22		-43.37	-43.37	-9.80	-14.02	-44.18 -16.10
Feb-06 37	-4.33		-42.38	-42.38	-9.76	-14.09	-43.16 -15.80
Feb-07 38	-4.43		-41.40	-41.40	-9.71	-14.14	-42.15 -15.49
Feb-08 39	-4.54		-40.41	-40.41	-9.65	-14.19	-41.14 -15.18
Feb-09 40	-4.65		-39.43	-39.43	-9.57	-14.22	-40.13 -14.86
Feb-10 41	-4.75		-38.44	-38.44	-9.49	-14.24	-39.11 -14.54
Feb-11 42	-4.85		-37.45	-37.45	-9.39	-14.25	-38.10 -14.22
Feb-12 43	-4.95		-36.47	-36.47	-9.29	-14.24	-37.09 -13.89
Feb-13 44	-5.05		-35.48	-35.48	-9.17	-14.22	-36.08 -13.55
Feb-14 45	-5.15		-34.50	-34.50	-9.05	-14.20	-35.07 -13.22
Feb-15 46	-5.25		-33.51	-33.51	-8.91	-14.16	-34.06 -12.88
Feb-16 47	-5.34		-32.53	-32.53	-8.76	-14.10	-33.05 -12.54
Feb-17 48	-5.43		-31.54	-31.54	-8.61	-14.04	-32.04 -12.19
Feb-18 49	-5.53		-30.56	-30.56	-8.44	-13.97	-31.04 -11.84
Feb-19 50	-5.62		-29.57	-29.57	-8.26	-13.88	-30.03 -11.49
Feb-20 51	-5.70		-28.58	-28.58	-8.08	-13.78	-29.02 -11.13
Feb-21 52	-5.79		-27.60	-27.60	-7.89	-13.68	-28.01 -10.77
Feb-22 53	-5.88		-26.61	-26.61	-7.68	-13.56	-27.00 -10.41
Feb-23 54	-5.96		-25.63	-25.63	-7.47	-13.43	-26.00 -10.05
Feb-24 55	-6.04		-24.64	-24.64	-7.26	-13.29	-24.99 -9.68
Feb-25 56	-6.12		-23.66	-23.66	-7.03	-13.15	-23.99 -9.31
Feb-26 57	-6.20		-22.67	-22.67	-6.79	-12.99	-22.98 -8.94
Feb-27 58	-6.27		-21.68	-21.68	-6.55	-12.83	-21.98 -8.56
Feb-28 59	-6.35		-20.70	-20.70	-6.30	-12.65	-20.97 -8.19

N	EOT	e	e	EOT	EOT	w	DECLINATION
(Eccentric)			(Adjust)	(Tilt)	(Total)		
Mar-0160	-6.42		-19.71	-19.71	-6.05	-12.47	-19.97 -7.81
Mar-0261	-6.49		-18.73	-18.73	-5.79	-12.28	-18.97 -7.43
Mar-0362	-6.56		-17.74	-17.74	-5.52	-12.08	-17.96 -7.05
Mar-0463	-6.62		-16.76	-16.76	-5.25	-11.87	-16.96 -6.67
Mar-0564	-6.69		-15.77	-15.77	-4.97	-11.66	-15.96 -6.28
Mar-0665	-6.75		-14.78	-14.78	-4.68	-11.43	-14.96 -5.90
Mar-0766	-6.81		-13.80	-13.80	-4.39	-11.20	-13.96 -5.51
Mar-0867	-6.87		-12.81	-12.81	-4.10	-10.97	-12.96 -5.12
Mar-0968	-6.93		-11.83	-11.83	-3.80	-10.73	-11.96 -4.73
Mar-1069	-6.98		-10.84	-10.84	-3.50	-10.48	-10.96 -4.34
Mar-1170	-7.03		-9.86	-9.86	-3.19	-10.22	-9.96 -3.95
Mar-1271	-7.08		-8.87	-8.87	-2.88	-9.97	-8.96 -3.55
Mar-1372	-7.13		-7.89	-7.89	-2.57	-9.70	-7.96 -3.16
Mar-1473	-7.18		-6.90	-6.90	-2.25	-9.43	-6.97 -2.77
Mar-1574	-7.22		-5.91	-5.91	-1.94	-9.16	-5.97 -2.37
Mar-1675	-7.26		-4.93	-4.93	-1.62	-8.88	-4.97 -1.98
Mar-1776	-7.30		-3.94	-3.94	-1.30	-8.60	-3.98 -1.58
Mar-1877	-7.34		-2.96	-2.96	-0.97	-8.31	-2.98 -1.19
Mar-1978	-7.38		-1.97	-1.97	-0.65	-8.03	-1.99 -0.79
Mar-2079	-7.41		-0.99	-0.99	-0.32	-7.73	-0.99 -0.40
Mar-2180	-7.44		0.00	0.00	0.00	-7.44	0.00 0.00
Mar-2281	-7.47		0.99	0.99	0.32	-7.14	0.99 0.40
Mar-2382	-7.50		1.97	1.97	0.65	-6.85	1.99 0.79
Mar-2483	-7.52		2.96	2.96	0.97	-6.55	2.98 1.18
Mar-2584	-7.54		3.94	3.94	1.30	-6.25	3.97 1.58
Mar-2685	-7.56		4.93	4.93	1.62	-5.94	4.96 1.97
Mar-2786	-7.58		5.91	5.91	1.94	-5.64	5.95 2.36
Mar-2887	-7.59		6.90	6.90	2.25	-5.34	6.94 2.76
Mar-2988	-7.61		7.89	7.89	2.57	-5.04	7.93 3.15
Mar-3089	-7.62		8.87	8.87	2.88	-4.74	8.92 3.54
Mar-3190	-7.63		9.86	9.86	3.19	-4.44	9.90 3.92

N	EOT	e	e	EOT	EOT	w	DECLINATION	
(Eccentric)			(Adjust)	(Tilt)	(Total)			
Apr-01 91	-7.63		10.84	10.84	3.50	-4.14	10.89	4.31
Apr-02 92	-7.64		11.83	11.83	3.80	-3.84	11.88	4.70
Apr-03 93	-7.64		12.81	12.81	4.10	-3.54	12.86	5.08
Apr-04 94	-7.64		13.80	13.80	4.39	-3.25	13.85	5.47
Apr-05 95	-7.64		14.78	14.78	4.68	-2.95	14.83	5.85
Apr-06 96	-7.63		15.77	15.77	4.97	-2.66	15.82	6.23
Apr-07 97	-7.62		16.76	16.76	5.25	-2.38	16.80	6.61
Apr-08 98	-7.61		17.74	17.74	5.52	-2.09	17.79	6.98
Apr-09 99	-7.60		18.73	18.73	5.79	-1.82	18.77	7.36
Apr-10 100	-7.59		19.71	19.71	6.05	-1.54	19.75	7.73
Apr-11 101	-7.57		20.70	20.70	6.30	-1.27	20.73	8.10
Apr-12 102	-7.55		21.68	21.68	6.55	-1.00	21.71	8.47
Apr-13 103	-7.53		22.67	22.67	6.79	-0.74	22.69	8.83
Apr-14 104	-7.51		23.66	23.66	7.03	-0.48	23.67	9.19
Apr-15 105	-7.49		24.64	24.64	7.26	-0.23	24.65	9.55
Apr-16 106	-7.46		25.63	25.63	7.47	0.02	25.63	9.91
Apr-17 107	-7.43		26.61	26.61	7.68	0.26	26.61	10.27
Apr-18 108	-7.40		27.60	27.60	7.89	0.49	27.59	10.62
Apr-19 109	-7.36		28.58	28.58	8.08	0.72	28.56	10.97
Apr-20 110	-7.33		29.57	29.57	8.26	0.94	29.54	11.32
Apr-21 111	-7.29		30.56	30.56	8.44	1.15	30.52	11.66
Apr-22 112	-7.25		31.54	31.54	8.61	1.36	31.49	12.00
Apr-23 113	-7.21		32.53	32.53	8.76	1.56	32.47	12.34
Apr-24 114	-7.16		33.51	33.51	8.91	1.75	33.44	12.67
Apr-25 115	-7.11		34.50	34.50	9.05	1.93	34.42	13.00
Apr-26 116	-7.06		35.48	35.48	9.17	2.11	35.39	13.32
Apr-27 117	-7.01		36.47	36.47	9.29	2.28	36.36	13.65
Apr-28 118	-6.96		37.45	37.45	9.39	2.43	37.33	13.97
Apr-29 119	-6.91		38.44	38.44	9.49	2.58	38.31	14.28
Apr-30 120	-6.85		39.43	39.43	9.57	2.73	39.28	14.59

N	EOT	e	e	EOT	EOT	w	DECLINATION	
(Eccentric)			(Adjust)	(Tilt)	(Total)			
May-01	121	-6.79		40.41	40.41	9.65	2.86	40.25 14.90
May-02	122	-6.73		41.40	41.40	9.71	2.98	41.22 15.20
May-03	123	-6.66		42.38	42.38	9.76	3.09	42.19 15.50
May-04	124	-6.60		43.37	43.37	9.80	3.20	43.16 15.80
May-05	125	-6.53		44.35	44.35	9.83	3.29	44.13 16.09
May-06	126	-6.46		45.34	45.34	9.84	3.38	45.10 16.37
May-07	127	-6.39		46.33	46.33	9.85	3.46	46.06 16.65
May-08	128	-6.32		47.31	47.31	9.84	3.52	47.03 16.93
May-09	129	-6.24		48.30	48.30	9.82	3.58	48.00 17.20
May-10	130	-6.17		49.28	49.28	9.79	3.62	48.96 17.47
May-11	131	-6.09		50.27	50.27	9.75	3.66	49.93 17.73
May-12	132	-6.01		51.25	51.25	9.70	3.69	50.90 17.99
May-13	133	-5.93		52.24	52.24	9.63	3.70	51.86 18.24
May-14	134	-5.84		53.23	53.23	9.55	3.71	52.82 18.49
May-15	135	-5.76		54.21	54.21	9.46	3.71	53.79 18.73
May-16	136	-5.67		55.20	55.20	9.36	3.69	54.75 18.97
May-17	137	-5.58		56.18	56.18	9.25	3.67	55.72 19.20
May-18	138	-5.49		57.17	57.17	9.13	3.64	56.68 19.42
May-19	139	-5.40		58.15	58.15	8.99	3.59	57.64 19.64
May-20	140	-5.30		59.14	59.14	8.85	3.54	58.60 19.86
May-21	141	-5.21		60.12	60.12	8.69	3.48	59.57 20.07
May-22	142	-5.11		61.11	61.11	8.52	3.41	60.53 20.27
May-23	143	-5.01		62.10	62.10	8.34	3.33	61.49 20.47
May-24	144	-4.91		63.08	63.08	8.15	3.24	62.45 20.66
May-25	145	-4.81		64.07	64.07	7.95	3.14	63.41 20.85
May-26	146	-4.71		65.05	65.05	7.74	3.03	64.37 21.03
May-27	147	-4.61		66.04	66.04	7.52	2.92	65.33 21.20
May-28	148	-4.50		67.02	67.02	7.29	2.79	66.29 21.37
May-29	149	-4.39		68.01	68.01	7.05	2.66	67.25 21.53
May-30	150	-4.29		69.00	69.00	6.80	2.52	68.20 21.68
May-31	151	-4.18		69.98	69.98	6.55	2.37	69.16 21.83

N	EOT	e	e	EOT	EOT	w	DECLINATION	
(Eccentric)			(Adjust)		(Tilt)	(Total)		
Jun-01	152	-4.07	70.97	70.97	6.28	2.22	70.12	21.98
Jun-02	153	-3.95	71.95	71.95	6.01	2.05	71.08	22.11
Jun-03	154	-3.84	72.94	72.94	5.73	1.89	72.04	22.24
Jun-04	155	-3.73	73.92	73.92	5.44	1.71	72.99	22.37
Jun-05	156	-3.61	74.91	74.91	5.14	1.53	73.95	22.48
Jun-06	157	-3.49	75.90	75.90	4.84	1.34	74.91	22.60
Jun-07	158	-3.38	76.88	76.88	4.53	1.15	75.86	22.70
Jun-08	159	-3.26	77.87	77.87	4.21	0.95	76.82	22.80
Jun-09	160	-3.14	78.85	78.85	3.89	0.75	77.77	22.89
Jun-10	161	-3.02	79.84	79.84	3.56	0.54	78.73	22.97
Jun-11	162	-2.90	80.82	80.82	3.23	0.33	79.68	23.05
Jun-12	163	-2.78	81.81	81.81	2.90	0.12	80.64	23.12
Jun-13	164	-2.65	82.79	82.79	2.56	-0.10	81.59	23.18
Jun-14	165	-2.53	83.78	83.78	2.21	-0.32	82.55	23.24
Jun-15	166	-2.41	84.77	84.77	1.87	-0.54	83.50	23.29
Jun-16	167	-2.28	85.75	85.75	1.52	-0.76	84.46	23.33
Jun-17	168	-2.15	86.74	86.74	1.17	-0.99	85.41	23.37
Jun-18	169	-2.03	87.72	87.72	0.82	-1.21	86.37	23.40
Jun-19	170	-1.90	88.71	88.71	0.46	-1.44	87.32	23.42
Jun-20	171	-1.77	89.69	89.69	0.11	-1.66	88.27	23.44
Jun-21	172	-1.65	90.68	-89.32	-0.24	-1.89	89.23	23.45
Jun-22	173	-1.52	91.67	-88.33	-0.60	-2.11	90.18	23.45
Jun-23	174	-1.39	92.65	-87.35	-0.95	-2.34	91.13	23.45
Jun-24	175	-1.26	93.64	-86.36	-1.30	-2.56	92.09	23.43
Jun-25	176	-1.13	94.62	-85.38	-1.65	-2.78	93.04	23.42
Jun-26	177	-1.00	95.61	-84.39	-2.00	-3.00	93.99	23.39
Jun-27	178	-0.87	96.59	-83.41	-2.34	-3.21	94.95	23.36
Jun-28	179	-0.74	97.58	-82.42	-2.69	-3.42	95.90	23.32
Jun-29	180	-0.61	98.57	-81.43	-3.02	-3.63	96.85	23.27
Jun-30	181	-0.48	99.55	-80.45	-3.36	-3.83	97.81	23.22

N	EOT	e	e	EOT	EOT	w	DECLINATION
(Eccentric)			(Adjust)	(Tilt)	(Total)		
Jul-01	182	-0.34	100.54	-79.46	-3.69	-4.03	98.76 23.16
Jul-02	183	-0.21	101.52	-78.48	-4.01	-4.23	99.71 23.09
Jul-03	184	-0.08	102.51	-77.49	-4.33	-4.41	100.66 23.02
Jul-04	185	0.05	103.49	-76.51	-4.65	-4.60	101.62 22.94
Jul-05	186	0.18	104.48	-75.52	-4.95	-4.77	102.57 22.86
Jul-06	187	0.31	105.46	-74.54	-5.25	-4.94	103.52 22.76
Jul-07	188	0.44	106.45	-73.55	-5.55	-5.10	104.47 22.66
Jul-08	189	0.58	107.44	-72.56	-5.83	-5.26	105.43 22.56
Jul-09	190	0.71	108.42	-71.58	-6.11	-5.41	106.38 22.45
Jul-10	191	0.84	109.41	-70.59	-6.38	-5.55	107.33 22.33
Jul-11	192	0.97	110.39	-69.61	-6.65	-5.68	108.29 22.20
Jul-12	193	1.10	111.38	-68.62	-6.90	-5.80	109.24 22.07
Jul-13	194	1.23	112.36	-67.64	-7.14	-5.92	110.19 21.93
Jul-14	195	1.36	113.35	-66.65	-7.38	-6.02	111.14 21.79
Jul-15	196	1.49	114.34	-65.66	-7.61	-6.12	112.10 21.64
Jul-16	197	1.61	115.32	-64.68	-7.82	-6.21	113.05 21.48
Jul-17	198	1.74	116.31	-63.69	-8.03	-6.29	114.00 21.32
Jul-18	199	1.87	117.29	-62.71	-8.23	-6.35	114.96 21.15
Jul-19	200	2.00	118.28	-61.72	-8.41	-6.41	115.91 20.97
Jul-20	201	2.12	119.26	-60.74	-8.59	-6.46	116.87 20.79
Jul-21	202	2.25	120.25	-59.75	-8.75	-6.50	117.82 20.61
Jul-22	203	2.38	121.24	-58.76	-8.90	-6.53	118.77 20.41
Jul-23	204	2.50	122.22	-57.78	-9.04	-6.54	119.73 20.22
Jul-24	205	2.62	123.21	-56.79	-9.18	-6.55	120.68 20.01
Jul-25	206	2.75	124.19	-55.81	-9.29	-6.55	121.64 19.80
Jul-26	207	2.87	125.18	-54.82	-9.40	-6.53	122.59 19.59
Jul-27	208	2.99	126.16	-53.84	-9.50	-6.51	123.55 19.37
Jul-28	209	3.11	127.15	-52.85	-9.58	-6.47	124.50 19.14
Jul-29	210	3.23	128.13	-51.87	-9.66	-6.43	125.46 18.91
Jul-30	211	3.35	129.12	-50.88	-9.72	-6.37	126.42 18.68
Jul-31	212	3.47	130.11	-49.89	-9.77	-6.30	127.37 18.44

N	EOT	e	e	EOT	EOT	w	DECLINATION	
(Eccentric)			(Adjust)	(Tilt)	(Total)			
Aug-01	213	3.58		131.09	-48.91	-9.80	-6.22	128.33 18.19
Aug-02	214	3.70		132.08	-47.92	-9.83	-6.13	129.29 17.94
Aug-03	215	3.81		133.06	-46.94	-9.84	-6.03	130.24 17.68
Aug-04	216	3.93		134.05	-45.95	-9.85	-5.92	131.20 17.42
Aug-05	217	4.04		135.03	-44.97	-9.84	-5.80	132.16 17.16
Aug-06	218	4.15		136.02	-43.98	-9.82	-5.67	133.11 16.89
Aug-07	219	4.26		137.01	-42.99	-9.79	-5.53	134.07 16.61
Aug-08	220	4.37		137.99	-42.01	-9.74	-5.37	135.03 16.33
Aug-09	221	4.48		138.98	-41.02	-9.69	-5.21	135.99 16.05
Aug-10	222	4.58		139.96	-40.04	-9.62	-5.04	136.95 15.76
Aug-11	223	4.69		140.95	-39.05	-9.54	-4.86	137.91 15.47
Aug-12	224	4.79		141.93	-38.07	-9.45	-4.67	138.87 15.17
Aug-13	225	4.89		142.92	-37.08	-9.36	-4.47	139.83 14.87
Aug-14	226	4.99		143.91	-36.09	-9.25	-4.26	140.79 14.57
Aug-15	227	5.09		144.89	-35.11	-9.13	-4.04	141.75 14.26
Aug-16	228	5.19		145.88	-34.12	-9.00	-3.81	142.71 13.95
Aug-17	229	5.28		146.86	-33.14	-8.85	-3.57	143.67 13.64
Aug-18	230	5.38		147.85	-32.15	-8.70	-3.33	144.64 13.32
Aug-19	231	5.47		148.83	-31.17	-8.54	-3.08	145.60 12.99
Aug-20	232	5.56		149.82	-30.18	-8.37	-2.81	146.56 12.67
Aug-21	233	5.65		150.80	-29.20	-8.20	-2.55	147.52 12.34
Aug-22	234	5.74		151.79	-28.21	-8.01	-2.27	148.49 12.01
Aug-23	235	5.82		152.78	-27.22	-7.81	-1.99	149.45 11.67
Aug-24	236	5.91		153.76	-26.24	-7.61	-1.70	150.42 11.33
Aug-25	237	5.99		154.75	-25.25	-7.39	-1.40	151.38 10.99
Aug-26	238	6.07		155.73	-24.27	-7.17	-1.10	152.35 10.64
Aug-27	239	6.15		156.72	-23.28	-6.94	-0.79	153.31 10.30
Aug-28	240	6.23		157.70	-22.30	-6.70	-0.48	154.28 9.95
Aug-29	241	6.30		158.69	-21.31	-6.46	-0.16	155.25 9.59
Aug-30	242	6.37		159.68	-20.32	-6.21	0.17	156.21 9.24
Aug-31	243	6.45		160.66	-19.34	-5.95	0.50	157.18 8.88

N	EOT	e	e	EOT	EOT	w	DECLINATION
(Eccentric)			(Adjust)	(Tilt)	(Total)		
Sep-01 244	6.52		161.65 -18.35	-5.69	0.83		158.15 8.52
Sep-02 245	6.58		162.63 -17.37	-5.42	1.17		159.12 8.16
Sep-03 246	6.65		163.62 -16.38	-5.14	1.51		160.09 7.79
Sep-04 247	6.71		164.60 -15.40	-4.86	1.85		161.06 7.42
Sep-05 248	6.77		165.59 -14.41	-4.57	2.20		162.03 7.05
Sep-06 249	6.83		166.58 -13.42	-4.28	2.55		163.00 6.68
Sep-07 250	6.89		167.56 -12.44	-3.99	2.91		163.97 6.31
Sep-08 251	6.95		168.55 -11.45	-3.69	3.26		164.94 5.94
Sep-09 252	7.00		169.53 -10.47	-3.38	3.62		165.91 5.56
Sep-10 253	7.05		170.52 -9.48	-3.07	3.98		166.88 5.18
Sep-11 254	7.10		171.50 -8.50	-2.76	4.34		167.86 4.80
Sep-12 255	7.15		172.49 -7.51	-2.45	4.70		168.83 4.42
Sep-13 256	7.19		173.47 -6.53	-2.13	5.06		169.81 4.04
Sep-14 257	7.24		174.46 -5.54	-1.81	5.42		170.78 3.66
Sep-15 258	7.28		175.45 -4.55	-1.49	5.78		171.76 3.27
Sep-16 259	7.32		176.43 -3.57	-1.17	6.14		172.73 2.89
Sep-17 260	7.35		177.42 -2.58	-0.85	6.50		173.71 2.50
Sep-18 261	7.39		178.40 -1.60	-0.53	6.86		174.69 2.11
Sep-19 262	7.42		179.39 -0.61	-0.20	7.22		175.66 1.72
Sep-20 263	7.45		180.37 0.37	0.12	7.57		176.64 1.34
Sep-21 264	7.48		181.36 1.36	0.45	7.93		177.62 0.95
Sep-22 265	7.50		182.35 2.35	0.77	8.28		178.60 0.56
Sep-23 266	7.53		183.33 3.33	1.10	8.62		179.58 0.17
Sep-24 267	7.55		184.32 4.32	1.42	8.97		180.56 -0.22
Sep-25 268	7.57		185.30 5.30	1.74	9.31		181.54 -0.61
Sep-26 269	7.59		186.29 6.29	2.06	9.64		182.52 -1.00
Sep-27 270	7.60		187.27 7.27	2.37	9.97		183.50 -1.39
Sep-28 271	7.61		188.26 8.26	2.69	10.30		184.49 -1.78
Sep-29 272	7.62		189.25 9.25	3.00	10.62		185.47 -2.17
Sep-30 273	7.63		190.23 10.23	3.31	10.94		186.45 -2.56

N	EOT	e	e	EOT	EOT	w	DECLINATION
(Eccentric)			(Adjust)	(Tilt)	(Total)		
Oct-01 274	7.64		191.22 11.22	3.61	11.25		187.44 -2.95
Oct-02 275	7.64		192.20 12.20	3.91	11.55		188.42 -3.34
Oct-03 276	7.64		193.19 13.19	4.21	11.85		189.41 -3.73
Oct-04 277	7.64		194.17 14.17	4.50	12.14		190.39 -4.12
Oct-05 278	7.63		195.16 15.16	4.79	12.43		191.38 -4.50
Oct-06 279	7.63		196.15 16.15	5.07	12.70		192.37 -4.89
Oct-07 280	7.62		197.13 17.13	5.35	12.97		193.36 -5.27
Oct-08 281	7.61		198.12 18.12	5.62	13.23		194.34 -5.66
Oct-09 282	7.60		199.10 19.10	5.89	13.49		195.33 -6.04
Oct-10 283	7.58		200.09 20.09	6.15	13.73		196.32 -6.42
Oct-11 284	7.57		201.07 21.07	6.40	13.97		197.31 -6.80
Oct-12 285	7.55		202.06 22.06	6.65	14.19		198.30 -7.18
Oct-13 286	7.53		203.04 23.04	6.88	14.41		199.29 -7.56
Oct-14 287	7.50		204.03 24.03	7.12	14.62		200.28 -7.93
Oct-15 288	7.48		205.02 25.02	7.34	14.81		201.28 -8.30
Oct-16 289	7.45		206.00 26.00	7.55	15.00		202.27 -8.67
Oct-17 290	7.42		206.99 26.99	7.76	15.18		203.26 -9.04
Oct-18 291	7.38		207.97 27.97	7.96	15.35		204.26 -9.41
Oct-19 292	7.35		208.96 28.96	8.15	15.50		205.25 -9.77
Oct-20 293	7.31		209.94 29.94	8.33	15.64		206.25 -10.14
Oct-21 294	7.27		210.93 30.93	8.50	15.78		207.24 -10.50
Oct-22 295	7.23		211.92 31.92	8.67	15.90		208.24 -10.85
Oct-23 296	7.19		212.90 32.90	8.82	16.01		209.23 -11.21
Oct-24 297	7.14		213.89 33.89	8.96	16.11		210.23 -11.56
Oct-25 298	7.10		214.87 34.87	9.10	16.19		211.23 -11.91
Oct-26 299	7.05		215.86 35.86	9.22	16.26		212.23 -12.25
Oct-27 300	6.99		216.84 36.84	9.33	16.32		213.23 -12.59
Oct-28 301	6.94		217.83 37.83	9.43	16.37		214.22 -12.93
Oct-29 302	6.88		218.82 38.82	9.52	16.41		215.22 -13.27
Oct-30 303	6.83		219.80 39.80	9.60	16.43		216.22 -13.60
Oct-31 304	6.77		220.79 40.79	9.67	16.44		217.22 -13.93

N	EOT	e	e	EOT	EOT	w	DECLINATION
(Eccentric)			(Adjust)	(Tilt)	(Total)		
Nov-01	305	6.70		221.77	41.77	9.73	16.43
Nov-02	306	6.64		222.76	42.76	9.78	16.42
Nov-03	307	6.57		223.74	43.74	9.81	16.38
Nov-04	308	6.51		224.73	44.73	9.83	16.34
Nov-05	309	6.44		225.71	45.71	9.85	16.28
Nov-06	310	6.36		226.70	46.70	9.85	16.21
Nov-07	311	6.29		227.69	47.69	9.84	16.13
Nov-08	312	6.22		228.67	48.67	9.81	16.03
Nov-09	313	6.14		229.66	49.66	9.78	15.92
Nov-10	314	6.06		230.64	50.64	9.73	15.79
Nov-11	315	5.98		231.63	51.63	9.67	15.65
Nov-12	316	5.90		232.61	52.61	9.60	15.50
Nov-13	317	5.81		233.60	53.60	9.52	15.33
Nov-14	318	5.72		234.59	54.59	9.43	15.15
Nov-15	319	5.64		235.57	55.57	9.32	14.96
Nov-16	320	5.55		236.56	56.56	9.21	14.75
Nov-17	321	5.46		237.54	57.54	9.08	14.53
Nov-18	322	5.36		238.53	58.53	8.94	14.30
Nov-19	323	5.27		239.51	59.51	8.79	14.06
Nov-20	324	5.17		240.50	60.50	8.63	13.80
Nov-21	325	5.08		241.49	61.49	8.45	13.53
Nov-22	326	4.98		242.47	62.47	8.27	13.25
Nov-23	327	4.88		243.46	63.46	8.08	12.95
Nov-24	328	4.77		244.44	64.44	7.87	12.65
Nov-25	329	4.67		245.43	65.43	7.66	12.33
Nov-26	330	4.57		246.41	66.41	7.44	12.00
Nov-27	331	4.46		247.40	67.40	7.20	11.66
Nov-28	332	4.35		248.38	68.38	6.96	11.31
Nov-29	333	4.24		249.37	69.37	6.71	10.95
Nov-30	334	4.13		250.36	70.36	6.45	10.58

N	EOT	e	e	EOT	EOT	w	DECLINATION
(Eccentric)			(Adjust)	(Tilt)	(Total)		
Dec-01335	4.02		251.34 71.34	6.18	10.20		248.47 -21.73
Dec-02336	3.91		252.33 72.33	5.90	9.81		249.48 -21.88
Dec-03337	3.80		253.31 73.31	5.62	9.41		250.50 -22.03
Dec-04338	3.68		254.30 74.30	5.32	9.01		251.51 -22.17
Dec-05339	3.57		255.28 75.28	5.03	8.59		252.52 -22.31
Dec-06340	3.45		256.27 76.27	4.72	8.17		253.54 -22.44
Dec-07341	3.33		257.26 77.26	4.41	7.74		254.55 -22.56
Dec-08342	3.21		258.24 78.24	4.09	7.30		255.57 -22.67
Dec-09343	3.09		259.23 79.23	3.77	6.86		256.59 -22.77
Dec-10344	2.97		260.21 80.21	3.44	6.41		257.60 -22.87
Dec-11345	2.85		261.20 81.20	3.10	5.96		258.62 -22.96
Dec-12346	2.73		262.18 82.18	2.77	5.50		259.63 -23.04
Dec-13347	2.61		263.17 83.17	2.43	5.03		260.65 -23.12
Dec-14348	2.48		264.16 84.16	2.08	4.57		261.67 -23.19
Dec-15349	2.36		265.14 85.14	1.74	4.09		262.68 -23.25
Dec-16350	2.23		266.13 86.13	1.39	3.62		263.70 -23.30
Dec-17351	2.11		267.11 87.11	1.04	3.14		264.72 -23.34
Dec-18352	1.98		268.10 88.10	0.68	2.66		265.74 -23.38
Dec-19353	1.85		269.08 89.08	0.33	2.18		266.75 -23.41
Dec-20354	1.73		270.07 -89.93	-0.02	1.70		267.77 -23.43
Dec-21355	1.60		271.05 -88.95	-0.38	1.22		268.79 -23.44
Dec-22356	1.47		272.04 -87.96	-0.73	0.74		269.81 -23.45
Dec-23357	1.34		273.03 -86.97	-1.08	0.25		270.83 -23.45
Dec-24358	1.21		274.01 -85.99	-1.44	-0.23		271.84 -23.44
Dec-25359	1.08		275.00 -85.00	-1.78	-0.70		272.86 -23.42
Dec-26360	0.95		275.98 -84.02	-2.13	-1.18		273.88 -23.39
Dec-27361	0.82		276.97 -83.03	-2.47	-1.66		274.90 -23.36
Dec-28362	0.69		277.95 -82.05	-2.81	-2.13		275.92 -23.32
Dec-29363	0.56		278.94 -81.06	-3.15	-2.59		276.94 -23.27
Dec-30364	0.43		279.93 -80.07	-3.48	-3.06		277.95 -23.21
Dec-31365	0.29		280.91 -79.09	-3.81	-3.52		278.97 -23.15
Jan-01 366	0.16		281.90 -78.10	-4.13	-3.97		279.99 -23.07