

# Astrodienst Ephemeris Tables for the year 1977

tropical geocentric zodiac

contains Sun, Moon, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, True Node, Moon's Node, Lilith, Chiron

Programming
Dieter Koch and Alois Treindl
based on Swiss Ephemeris
Code D5EPX

JANUARY 1977 00:00 UT

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Day	Sid.t	0	D	ğ	Ş	♂	4	ħ	)∤(	卉	В	S.	v	Ç	ķ	Day
S 1	6 42 8	10 ි 27'48	20816	21°R55	26≈ 1	29 <b>×</b> 759	21°R32	15°R50	10 <b>M</b> 53	14 <b>×</b> 39	14 <b>♀</b> 7	1°R10	29 <b>₾</b> 53	17827	27°R19	S 1
S 2	6 46 4	11°28'57	2П 8	21궁 5	27° 9	0 <b>궁</b> 44	21829	15 <b>Ω</b> 46	10°55	14°41	14° 8	1 <b>m</b> 6	29°50	17°33	27 <b>Υ</b> 19	S 2
M 3	6 50 1	12°30'05	14° 8	20° 5	28°16	1°28	21°26	15°43	10°58	14°43	14° 8	0°58	29°47	17°40	27°18	M 3
T 4	6 53 57	13°31'13	26°18	18°56	29°24	2°13	21°24	15°39	11° 0	14°45	14° 9	0°48	29°44	17°47	27°18	T 4
W 5	6 57 54	14°32'22	89541	17°41	0 <b>)</b> €31	2°58	21°22	15°35	11° 2	14°47	14° 9	0°36	29°40	17°53	27°18	W 5
T 6 F 7	7 1 5 1 7 5 4 7	15°33'30 16°34'38	21°18 4 <b>Ω</b> 7	16°21 15° 1	1°37 2°44	3°43 4°28	21°20 21°18	15°31 15°27	11° 4 11° 6	14°49 14°51	14°10 14°10	0°23 0° 9	29°37 29°34	18° 0 18° 7	27°18 27°D18	T 6 F 7
S 8	7 9 44	10°34'38	17° 8	13°41	3°50	5°14	21°16	15°23	11° 8	14°53	14°10	29 <b>£</b> 57	29°31	18°13	27°18	S 8
S 9	7 13 40	18°36'53	0 mp 20	12°25	4°57	5°59	21°15	15°19	11°10	14°55	14°10	29°47	29°28	18°20	27°18	S 9
M10	7 17 37	19°38'01	13°43	11°14	6° 2	6°44	21°14	15°15	11°12	14°57	14°11	29°40	29°25	18°26	27°18	M10
T 11	7 21 33	20°39'09	27°16	10°11	7° 8	7°29	21°12	15°11	11°14	14°59	14°11	29°36	29°21	18°33	27°18	T 11
W12	7 25 30	21°40'16	11	9°17	8°13	8°14	21°12	15° 7	11°16	15° 1	14°11	29°34	29°18	18°40	27°18	W12
T 13 F 14	7 29 26 7 33 23	22°41'24 23°42'31	24°54 8 <b>M</b> 59	8°31 7°56	9°18 10°23	9° 0 9°45	21°11 21°11	15° 2 14°58	11°18 11°19	15° 3 15° 5	14°11 14°11	29°34 29°33	29°15 29°12	18°46 18°53	27°19 27°19	T 13 F 14
S 15	7 37 20	23 42 31 24°43'39	23°14	7°30	10°23	10°30	21°D10	14 38 14°54	11°21	15° 7	14 11 14°11	29°32	29° 12	18 33 19° 0	27°19	S 15
S 16	7 41 16	25°44'46	7 <b>.</b> ₹38	7°14	12°32	11°16	21°10	14°49	11°23	15° 9	14°R11	29°28	29° 5	19° 6	27°20	S 16
M17	7 45 13	26°45'53	22° 8	7°D 6	13°36	12° 1	21°11	14°45	11°24	15°10	14°11	29°21	29° 2	19°13	27°20	M17
T 18	7 49 9	27°47'00	6 <b>ප</b> 37	7° 8	14°39	12°47	21°11	14°40	11°26	15°12	14°11	29°12	28°59	19°20	27°21	T 18
W19	7 53 6	28°48'07	21° 0	7°17	15°43	13°33	21°12	14°36	11°27	15°14	14°11	29° 0	28°56	19°26	27°22	W19
T 20 F 21	7 57 2 8 0 59	29°49'12 0≈50'17	5 <b>≈</b> 10 19° 1	7°34 7°57	16°46 17°48	14°18 15° 4	21°13 21°14	14°31 14°26	11°29 11°30	15°16 15°17	14°11 14°11	28°47 28°34	28°53 28°50	19°33 19°40	27°22 27°23	T 20 F 21
S 22	8 4 55	1°51'22	2 <b>)</b> (30	8°27	17 48 18°50	15°49	21°15	14°22	11°32	15°19	14 11 14°11	28°23	28°46	19°46	27°24	S 22
S 23	8 8 52	2°52'25	15°35	9° 2	19°52	16°35	21°16	14°17	11°33	15°21	14°11	28°15	28°43	19°53	27°25	S 23
M24	8 12 49	3°53'27	28°16	9°42	20°54	17°21	21°18	14°12	11°34	15°23	14°10	28° 9	28°40	20° 0	27°26	M24
T 25	8 16 45	4°54'29	10 <b>Ƴ</b> 37	10°27	21°55	18° 7	21°20	14° 7	11°35	15°24	14°10	28° 6	28°37	20° 6	27°27	T 25
W26	8 20 42	5°55'29	22°42	11°16	22°55	18°52	21°22	14° 2	11°36	15°26	14°10	28° 5	28°34	20°13	27°28	W26
T 27 F 28	8 24 38 8 28 35	6°56'28 7°57'26	4 <b>8</b> 36	12° 8 13° 4	23°55 24°55	19°38 20°24	21°24 21°27	13°58 13°53	11°37 11°38	15°27 15°29	14° 9 14° 9	28° 5 28° 5	28°31 28°27	20°20 20°26	27°29 27°30	T 27 F 28
S 29	8 28 33 8 32 31	8°58'23	28°13	13° 4 14° 3	24°55 25°54	20°24 21°10	21°27 21°29	13°48	11°38	15°30	14° 9	28° 3	28°24	20°26 20°33	27°31	S 29
S 30	8 36 28	9°59'19	10耳 7	1 <u>5°</u> 5	26°53	2 <u>1°</u> 56	21°32	13°43	11°40	15°32	14° 8	28° 0	28°21	20°40	27°33	S 30
M31	8 40 24	11≈ 0'14	22 <b>I</b> I1	16 <b>궁</b> 10	27 <b>米</b> 51	22 <b>る</b> 42	21835	13 <b>N</b> 38	11 <b>M</b> .41	15 <b>₹</b> 33	14 <b>♀</b> 8	27 <b>≏</b> 53	28 <b>≏</b> 18	20846	27 <b>Y</b> 34	M31

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S 1	23 s 2	16n13 1 s	s40 20 s2	7 1n	14 14 s21	1 s36	24 s 4	0 s37	17n12	0 s 5 9	16n56	0n53	14 s40	0n26	21s 7	1n27	10n 4	16n58	11 s53	11 s26	15n33	10n23	0s 9
S 2	22 57	18 2 2	37 20 1	5 1	33 13 55	1 33	24 4	0 38	17 12	0 58	16 57	0 53	14 41	0 26	21 7	1 27	10 5	16 59	11 51	11 25	15 34	10 23	0 9
M 3	22 51	19 4 3	27 20	5 1 :	52 13 29	1 30	24 4	0 38	17 11	0 58	16 58	0 53	14 42	0 26	21 7	1 27	10 5	16 59	11 49	11 24	15 35	10 22	0 9
T 4	22 45	19 14 4	9 19 5			1 26			17 11	0 58		0 53	14 43	0 26	21 7	1 27				_	15 36	-	
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S 8	22 17	11 8 4	48 19 4	0 3	5 11 12	1 11	24 1	0 41	17 10	0 57	17 5	0 54	14 45	0 26	21 8	1 27	10 7	17 2	11 27	11 18	15 40	10 22	0 9
S 9	22 9	7 18 4	20 19 4	0 3	13 10 44	1 7	24 0	0 42	17 10	0 57	17 6	0 54	14 46	0 26	21 8	1 27	10 7	17 3	11 24	11 17	15 41	10 22	0 9
M10	22 0	3 3 3	37 19 4	0 3	18 10 16	1 3	23 58	0 42	17 10	0 56	17 7	0 54	14 46	0 26	21 9	1 27	10 8	17 3	11 21	11 16	15 42	10 22	0 9
T 11	21 51	1 s24 2	42 19 4	2 3	21 9 48	0 58	23 56	0 43	17 10	0 56	17 9	0 54	14 47	0 26	21 9	1 28	10 8	17 4	11 20	11 15	15 43	10 22	0 9
W12	21 42	5 50 1	37 19 4	6 3	22 9 19	0 54	23 54	0 43	17 10	0 56	17 10	0 54	14 47	0 26	21 9	1 28	10 9	17 4	11 19	11 14	15 44	10 22	0 10
T 13	21 32	10 1 0	25 19 5	0 3	20 8 50	0 49	23 52	0 44	17 10	0 55	17 12	0 55	14 48	0 27	21 9	1 28	10 9	17 5	11 19	11 12	15 45	10 22	0 10
F 14	21 22	13 42 On	150 19 5	6 3	17 8 21	0 44	23 49	0 44	17 10	0 55	17 13	0 55	14 48	0 27	21 9	1 28	10 10	17 6	11 19	11 11	15 46	10 22	0 10
S 15	21 11	16 37 2	2 20	2 3	12 7 52	0 40	23 46	0 45	17 10	0 55	17 14	0 55	14 49	0 27	21 9	1 28	10 10	17 6	11 18	11 10	15 47	10 22	0 10
S 16	21 0	18 31 3	7 20	9 3	6 7 23	0 35	23 43	0 45	17 10	0 55	17 16	0 55	14 49	0 27	21 10	1 28	10 11	17 7	11 17	11 9	15 48	10 22	0 10
M17	20 48	19 13 4	0 20 1	7 2	59 6 54	0 29	23 39	0 46	17 11	0 54	17 17	0 55	14 50	0 27	21 10	1 28	10 11	17 7	11 15	11 8	15 49	10 22	0 10
T 18	20 36	18 39 4	38 20 2	5 2	50 6 25	0 24	23 36	0 46	17 11	0 54	17 19	0 55	14 50	0 27	21 10	1 28	10 12	17 8	11 11	11 7	15 50	10 23	0 10
W19	20 24	16 54 4	57 20 3	3 2	42 5 55	0 19	23 32	0 47	17 12	0 54	17 20	0 55	14 51	0 27	21 10	1 28	10 13	17 8	11 7	11 6	15 51	10 23	0 10
T 20	20 11	14 9 4	58 20 4	1 2	32 5 26	0 13	23 27	0 47	17 12	0 53	17 22	0 56	14 51	0 27	21 10	1 28	10 13	17 9	11 2	11 5	15 52	10 23	0 10
F 21	19 58	10 39 4	42 20 5	0 2	23 4 56	0 8	23 23	0 48	17 13	0 53	17 23	0 56	14 52	0 27	21 10	1 28	10 14	17 10	10 58	11 3	15 53	10 23	0 10
S 22	19 45	6 42 4	9 20 5	8 2	13 4 27	0 2	23 18	0 48	17 13	0 53	17 25	0 56	14 52	0 27	21 11	1 28	10 14	17 10	10 54	11 2	15 54	10 23	0 10
S 23	19 31	2 32 3	25 21	6 2	2 3 57	0n 4	23 13	0 49	17 14	0 53	17 26	0 56	14 52	0 27	21 11	1 28	10 15	17 11	10 51	11 1	15 55	10 24	0 10
M24	19 17	1n37 2	31 21 1	3 1 :	52 3 27	0 10	23 8	0 49	17 15	0 52	17 28	0 56	14 53	0 27	21 11	1 28	10 16	17 11	10 49	11 0	15 56	10 24	0 10
T 25	19 2	5 36 1	31 21 2	0 1	42 2 58	0 16	23 2	0 50	17 15	0 52	17 29	0 56	14 53	0 27	21 11	1 28	10 16	17 12	10 48	10 59	15 57	10 24	0 10
W26	18 47	9 16 0	29 21 2	7 1	31 2 28	0 22	22 57	0 50	17 16	0 52	17 31	0 56	14 54	0 27	21 11	1 28	10 17	17 12	10 48	10 58	15 58	10 24	0 10
T 27	18 32	12 31 0s	s35 21 3	3 1 :	21 1 58	0 29	22 51	0 51	17 17	0 52	17 32	0 56	14 54	0 27	21 11	1 28	10 17	17 13	10 48	10 57	15 59	10 25	0 11
F 28	18 17	15 13 1	36 21 3	8 1	11 1 29	0 35	22 44	0 51	17 18	0 51	17 34	0 57	14 54	0 27	21 11	1 28	10 18	17 14	10 48	10 56	16 0	10 25	0 11
S 29	18 1	17 17 2	33 21 4	2 1	0 0 59	0 42	22 38	0 52	17 19	0 51	17 35	0 57	14 54	0 27	21 12	1 28	10 19	17 14	10 47	10 54	16 1	10 26	0 11
S 30	17 45	18 37 3	23 21 4	5 0	50 0 30	0 49	22 31	0 52	17 20	0 51	17 37	0 57	14 55	0 27	21 12	1 28	10 19	17 15	10 46	10 53	16 2	10 26	0 11
M31	17 s28	19n 7 4s	s 6 21 s <sup>2</sup>	7 0n	41 0s 0	0n55	22 s24	0 s53	17n21	0 s 5 0	17n38	0n57	14 s55	0n27	21 s12	1n28	10n20	17n15	10 s43	10s52	16n 3	10n26	0 s11

Julian Day Number = 2443144.5, Delta T = 47.52 sec Ecliptic obliquity = 23°26′24, Nutation =  $0^\circ00'09$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^\circ25'09$ , Lahiri =  $23^\circ32'09$ 

FEBRUARY 1977 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	24	ħ	)f(	卉	В	n	Ω	Ç	ķ	Day
T 1	8 44 21	12≈ 1'07	49528	17 <b>る</b> 17	28 <b>)</b> (49	23 <b>る</b> 28	21838	13°R33	11 <b>M</b> .42	15 <b>₹</b> 35	14°R 7	27°R44	28 <b>♀</b> 15	20 <b>8</b> 53	27 <b>Υ</b> 35	T 1
W 2	8 48 18	13° 1'59	17° 2	18°25	29°46	24°14	21°42	13 <b>Ω</b> 28	11°43	15°36	14 <b>♀</b> 7	27 <b></b> 233	28°11	21° 0	27°37	W 2
T 3	8 52 14	14° 2'50	29°54	19°36	0 <b>Υ</b> 43	25° 0	21°46	13°23	11°43	15°38	14° 6	27°20	28° 8	21° 6	27°38	T 3
F 4	8 56 11	15° 3'39	13 <b>N</b> 3	20°49	1°39	25°46	21°49	13°18	11°44	15°39	14° 5	27° 7	28° 5	21°13	27°40	F 4
S 5	9 0 7	16° 4'28	26°27	22° 4	2°34	26°32	21°53	13°14	11°45	15°40	14° 5	26°56	28° 2	21°20	27°41	S 5
S 6	9 4 4	17° 5'15	10 <b>m</b> 5	23°20	3°29	27°18	21°58	13° 9	11°45	15°42	14° 4	26°46	27°59	21°26	27°43	S 6
M 7	9 8 0	18° 6'01	23°52	24°37	4°23	28° 5	22° 2	13° 4	11°46	15°43	14° 3	26°39	27°56	21°33	27°44	M 7
T 8	9 11 57	19° 6'46	7 <b>-</b> 47	25°56	5°16	28°51	22° 6	12°59	11°46	15°44	14° 2	26°35	27°52	21°39	27°46	T 8
W 9	9 15 53	20° 7'31	21°46	27°16	6° 9	29°37	22°11	12°54	11°46	15°46	14° 2	26°D34	27°49	21°46	27°48	W 9
T 10	9 19 50	21° 8'14	5 <b>M</b> .49	28°38	7° 1	0≈23	22°16	12°49	11°47	15°47	14° 1	26°34	27°46	21°53	27°50	T 10
F 11	9 23 47	22° 8'56	19°54	0≈ 0	7°52	1°10	22°21	12°44	11°47	15°48	14° 0	26°R34	27°43	21°59	27°52	F 11
S 12	9 27 43	23° 9'37	4 <b>√</b> 1	1°24	8°42	1°56	22°26	12°40	11°47	15°49	13°59	26°34	27°40	22° 6	27°54	S 12
S 13	9 31 40	24°10'17	18° 7	2°49	9°32	2°42	22°32	12°35	11°47	15°50	13°58	26°31	27°37	22°13	27°56	S 13
M14	9 35 36	25°10'56	2 <b>る</b> 13	4°15	10°21	3°29	22°38	12°30	11°47	15°51	13°57	26°26	27°33	22°19	27°58	M14
T 15	9 39 33	26°11'34	16°14	5°42	11° 9	4°15	22°43	12°25	11°R47	15°52	13°56	26°19	27°30	22°26	28° 0	T 15
W16	9 43 29	27°12'10	0≈ 9	7°10	11°56	5° 1	22°49	12°21	11°47	15°53	13°55	26°10	27°27	22°33	28° 2	W16
T 17	9 47 26	28°12'45	13°53	8°39	12°42	5°48	22°55	12°16	11°47	15°54	13°54	25°59	27°24	22°39	28° 4	T 17
F 18	9 51 22	29°13'19	27°22	10° 9	13°27	6°34	23° 2	12°12	11°47	15°55	13°53	25°49	27°21	22°46	28° 6	F 18
S 19	9 55 19	0 <b>∺</b> 13'51	10 <b>) €</b> 34	11°40	14°11	7°21	23° 8	12° 7	11°47	15°56	13°52	25°40	27°17	22°53	28° 8	S 19
S 20	9 59 16	1°14'22	23°28	13°12	14°54	8° 7	23°15	12° 2	11°47	15°57	13°51	25°33	27°14	22°59	28°11	S 20
M21	10 3 12	2°14'50	6 <b>Υ</b> 4	14°45	15°36	8°54	23°22	11°58	11°46	15°58	13°50	25°29	27°11	23° 6	28°13	M21
T 22	10 7 9	3°15'17	18°22	16°19	16°17	9°40	23°28	11°54	11°46	15°59	13°49	25°27	27° 8	23°13	28°15	T 22
W23	10 11 5	4°15'42	0827	17°54	16°56	10°27	23°36	11°49	11°45	16° 0	13°48	25°D27	27° 5	23°19	28°18	W23
T 24	10 15 2	5°16'06	12°22	19°30	17°35	11°14	23°43	11°45	11°45	16° 0	13°47	25°28	27° 2	23°26	28°20	T 24
F 25	10 18 58	6°16'27	24°11	21° 6	18°12	12° 0	23°50	11°41	11°44	16° 1	13°45	25°29	26°58	23°33	28°23	F 25
S 26	10 22 55	7°16'47	6 <b>I</b> 0	22°44	18°47	12°47	23°58	11°37	11°44	16° 2	13°44	25°R30	26°55	23°39	28°25	S 26
S 27	10 26 51	8°17'04	17°54	24°23	19°22	13°33	24° 5	11°32	11°43	16° 2	13°43	25°29	26°52	23°46	28°28	S 27
M28	10 30 48	9 <b>∺</b> 17'20	29耳59	26≈ 3	19 <b>Y</b> 55	14≈20	24813	11 <b>1</b> 28	11 <b>M</b> .43	16 <b>₹</b> 3	13 <b>≏</b> 42	25 <b>≏</b> 27	26 <b>≏</b> 49	23853	28 <b>Y</b> 31	M28

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T 1	17 s11	18n45	4s37	21 s49	0n31	0n29	1n 2	22 s17	0s53	17n22	0 s 5 0	17n40	0n57	14 s55	0n27	21 s12	1n28	10n21 17	7n16	10 s40	10 s 5 1	16n 4	10n27	0 s11
W 2	16 54	17 27	4 56	21 49	0 22	0 58	1 9		0 54	17 23	0 50		0 57	14 55	0 27	21 12	1 28						10 27	0 11
T 3		15 16	-	21 48	0 12	1 27	1 17			17 24	0 50			14 56		21 12							10 28	0 11
F 4	16 19	-	4 50	-	0 3	1 56		21 53		17 26		17 44		14 56		21 12							10 28	0 11
S 5	16 1	8 34	4 23	21 43	0s 5	2 25	1 31	21 45	0 55	17 27	0 49	17 46	0 57	14 56	0 27	21 12	1 28	10 24 17	7 18	10 23	10 46	16 7	10 29	0 11
S 6	15 43	4 23	3 40	21 39	0 14	2 54	1 39	21 37	0 56	17 28	0 49	17 47	0 57	14 56	0 27	21 13	1 28	10 24 17	7 18	10 19	10 45	16 8	10 29	0 11
M 7	15 24	0s 5	2 45	21 34	0 22	3 22	1 47	21 28	0 56	17 30	0 49	17 49	0 58	14 56	0 27	21 13	1 28	10 25 17	7 19	10 17	10 44	16 9	10 30	0 11
T 8	15 6	4 35	1 38	21 27	0 30	3 51		21 19		17 31		17 50	0 58	14 56	0 27	21 13		10 26 17						0 11
W 9	14 47	8 53		21 20	0 38	4 19		21 10		17 32		17 52		14 56		21 13								0 11
T 10	14 27	12 41		21 11	0 46	4 46	2 10			17 34		17 53		14 56		21 13						-		0 11
F 11	14 8			21 1	0 53	5 14		20 51		17 35		17 55		14 56		21 13								0 11
S 12	13 48	17 54	3 6	20 49	1 0	5 42	2 26	20 41	0 58	17 37	0 47	17 56	0 58	14 57	0 27	21 13	1 29	10 29 17	/ 21	10 15	10 39	16 14	10 33	0 12
S 13	13 28	18 56	3 59	20 36	1 6	6 9	2 35	20 31	0 59	17 39	0 47	17 58	0 58	14 57	0 27	21 13	1 29	10 30 17	7 22	10 14	10 37	16 15	10 33	0 12
M14	13 8			20 22	1 13	6 36	-	20 20		17 40		17 59		14 57		21 13		10 31 17						0 12
T 15	-	17 29	-	20 7	1 19	7 2		20 10	-	17 42	0 47			14 57		21 13								0 12
	12 27			19 51	1 25	7 28	-	19 59	-	17 44	0 46	-		14 57		21 13								0 12
T 17	12 6			19 33	1 30	7 54	-	19 48	-	17 46	0 46	-		14 56		21 13								0 12
	11 45		-	19 14	1 35	8 20	-	19 37		17 47	0 46			14 56		21 13						-	10 37	0 12 0 12
	11 23	4 15	3 3/	18 53	1 40	8 45	3 20	19 25	1 1	17 49	0 46	18 6	0 38	14 56	0 27	21 14	1 29	10 34 17	1 23	9 33	10 31	16 20	10 38	0 12
S 20	11 2		-	18 31	1 44	9 10		19 14		17 51	0 45			14 56				10 35 17			10 29	-		0 12
M21	10 40	0 0		18 8	1 48	9 35	3 44			17 53	0 45			14 56		21 14					10 28	-		0 12
T 22	10 19			17 44	1 52	9 59	-	18 50		17 55		18 10		14 56		21 14					10 27			0 12
W23	,			17 18		10 22		18 38	-	17 57		18 11		14 56		21 14					10 26	-	-	0 12
T 24 F 25	9 35					10 45 11 8		18 25 18 12	-	17 59 18 1	0 44	-		14 56 14 56		21 14 21 14		10 39 17 10 39 17			10 25	-	10 42 10 42	0 12 0 12
S 26	8 50			16 23 15 53		11 8 11 30		18 12		18 3		18 14 18 15		14 56				10 39 17					10 42	
			-																					-
S 27			-		-	11 52		17 47		18 5		18 16		14 55				10 41 17		,			10 44	
M28	8s 5	18n47	4s39	14 s 50	2s 7	12n13	4n47	17 s34	1s 4	18n 7	0 s44	18n17	0n59	14 s55	0n27	21s14	1n29	10n42 17	7n28	9 s 5 0	10 s20	16n28	10n45	0 s13

Julian Day Number = 2443175.5, Delta T = 47.61 sec Ecliptic obliquity =  $23^{\circ}26'24$ , Nutation =  $0^{\circ}00'10$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^{\circ}25'13$ , Lahiri =  $23^{\circ}32'13$ 

MARCH 1977 00:00 UT

Day	Sid.t	$\odot$	D	ğ	·	ð	4	ħ	)∤(	卉	Р	ß	Ω	Ç	ę,	Day
T 1	10 34 45	10 <b>)</b> 17'33	129519	27≈43	20 <b>Y</b> 26	15≈ 7	24821	11°R24	11°R42	16 <b>∡</b> 4	13°R40	25°R22	26 <u>₽</u> 46	23 <b>8</b> 59	28 <b>Y</b> 33	T 1
W 2	10 38 41	11°17'45	24°57	29°25	20°56	15°53	24°29	11 <b>\O</b> 20	11 <b>M</b> .41	16° 4	13 <b>≏</b> 39	25 <b>♀</b> 16	26°42	24° 6	28°36	W 2
T 3	10 42 38	12°17'54	$7\Omega$ 56	1 <b>)</b> 8	21°24	16°40	24°38	11°17	11°40	16° 5	13°38	25° 9	26°39	24°13	28°39	T 3
F 4	10 46 34	13°18'02	21°18	2°52	21°50	17°27	24°46	11°13	11°39	16° 5	13°36	25° 2	26°36	24°19	28°41	F 4
S 5	10 50 31	14°18'07	5Mp 0	4°37	22°15	18°14	24°55	11° 9	11°38	16° 6	13°35	24°55	26°33	24°26	28°44	S 5
S 6	10 54 27	15°18'11	19° 0	6°23	22°38	19° 0	25° 3	11° 6	11°37	16° 6	13°33	24°49	26°30	24°33	28°47	S 6
M 7	10 58 24	16°18'12	3 <b>₽</b> 14	8°10	22°59	19°47	25°12	11° 2	11°36	16° 7	13°32	24°46	26°27	24°39	28°50	M 7
T 8	11 2 20	17°18'12	17°36	9°58	23°18	20°34	25°21	10°58	11°35	16° 7	13°30	24°44	26°23	24°46	28°53	T 8
W 9	11 6 17	18°18'10	2M 2	11°48	23°35	21°20	25°30	10°55	11°34	16° 7	13°29	24°D44	26°20	24°53	28°56	W 9
T 10	11 10 13	19°18'07	16°27	13°38	23°50	22° 7	25°39	10°52	11°33	16° 8	13°28	24°45	26°17	24°59	28°59	T 10
F 11	11 14 10	20°18'02	0 <b>∡</b> 747	15°30	24° 3	22°54	25°48	10°49	11°32	16° 8	13°26	24°47	26°14	25° 6	29° 2	F 11
S 12	11 18 7	21°17'55	14°59	17°23	24°13	23°41	25°58	10°45	11°30	16° 8	13°25	24°R48	26°11	25°13	29° 5	S 12
S 13	11 22 3	22°17'47	29° 2	19°16	24°22	24°28	26° 7	10°42	11°29	16° 8	13°23	24°48	26° 8	25°19	29° 8	S 13
M14	11 26 0	23°17'37	12 <b>る</b> 55	21°11	24°28	25°14	26°17	10°39	11°28	16° 8	13°21	24°46	26° 4	25°26	29°11	M14
T 15	11 29 56	24°17'26	26°37	23° 7	24°32	26° 1	26°27	10°37	11°26	16° 9	13°20	24°43	26° 1	25°33	29°14	T 15
W16	11 33 53	25°17'13	10≈ 6	25° 4	24°R33	26°48	26°37	10°34	11°25	16° 9	13°18	24°39	25°58	25°39	29°17	W16
T 17	11 37 49	26°16'58	23°23	27° 2	24°33	27°35	26°47	10°31	11°23	16° 9	13°17	24°35	25°55	25°46	29°21	T 17
F 18	11 41 46	27°16'41	6 <b>∺</b> 27	29° 1	24°29	28°22	26°57	10°28	11°22	16°R 9	13°15	24°30	25°52	25°53	29°24	F 18
S 19	11 45 42	28°16'22	19°17	1 <b>Υ</b> 0	24°23	29° 9	27° 7	10°26	11°20	16° 9	13°14	24°26	25°48	25°59	29°27	S 19
S 20	11 49 39	29°16'01	1 <b>Y</b> 53	3° 0	24°15	29°55	27°17	10°24	11°18	16° 9	13°12	24°23	25°45	26° 6	29°30	S 20
M21	11 53 36	0 <b>Ƴ</b> 15'38	14°16	5° 1	24° 4	0 <b>)</b> 42	27°28	10°21	11°17	16° 9	13°10	24°21	25°42	26°13	29°34	M21
T 22	11 57 32	1°15'13	26°26	7° 2	23°51	1°29	27°38	10°19	11°15	16° 9	13° 9	24°D21	25°39	26°19	29°37	T 22
W23	12 1 29	2°14'46	8 <b>8</b> 27	9° 2	23°35	2°16	27°49	10°17	11°13	16° 8	13° 7	24°22	25°36	26°26	29°40	W23
T 24	12 5 25	3°14'17	20°20	11° 3	23°17	3° 3	28° 0	10°15	11°12	16° 8	13° 5	24°23	25°33	26°33	29°44	T 24
F 25	12 9 22	4°13'46	2 <b>II</b> 9	13° 4	22°57	3°50	28°11	10°13	11°10	16° 8	13° 4	24°25	25°29	26°39	29°47	F 25
S 26	12 13 18	5°13'12	13°58	15° 3	22°34	4°37	28°22	10°11	11° 8	16° 8	13° 2	24°26	25°26	26°46	29°50	S 26
S 27	12 17 15	6°12'36	25°52	17° 2	22° 9	5°23	28°33	10°10	11° 6	16° 8	13° 0	24°27	25°23	26°53	29°54	S 27
M28	12 21 11	7°11'58	7955	18°59	21°42	6°10	28°44	10° 8	11° 4	16° 7	12°59	24°R28	25°20	26°59	29°57	M28
T 29	12 25 8	8°11'18	20°13	20°54	21°12	6°57	28°55	10° 7	11° 2	16° 7	12°57	24°27	25°17	27° 6	0 <b>8</b> 1	T 29
W30	12 29 5	9°10'35	$2\Omega 50$	22°47	20°42	7°44	29° 6	10° 5	11° 0	16° 7	12°55	24°26	25°13	27°13	0° 4	W30
T 31	12 33 1	10 <b>Y</b> 9'50	15 <b>Ω</b> 49	24 <b>Y</b> 37	20 <b>Υ</b> 9	8 <b>∺</b> 31	29818	10Ω 4	10 <b>M</b> 58	16 <b>₹</b> 6	12 <b>≏</b> 54	24 <b>Ω</b> 25	25 <b>≙</b> 10	27 <b>8</b> 19	9 <b>8</b> 80	T 31

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T 1 W 2	7 s43 7 20	17n52 5s 1 16 4 5 9		2s 8 12n33 2 9 12 53	4n56 17 s20 5 6 17 7		18n10 18 12	0 s43 0 43	18n18 18 19		14 s55 14 54		_		10n43 17n29 10 43 17 29		10s19 10 18	16n29 16 30	-	0 s13 0 13
T 3 F 4	6 57 6 34	10 1 4 38	12 28 2	2 10 13 12 2 9 13 31	5 15 16 53 5 24 16 39	1 6	18 14 18 16	0 43 0 43	18 22	0 59		0 27	21 14 1	1 29	10 44 17 29 10 45 17 30	9 41	10 16	16 31 16 32	10 49	0 13 0 13
S 5 S 6 M 7	6 11 5 48 5 24	6 0 3 57 1 34 3 2 3s 2 1 54	11 9 2	2 9 13 49 2 8 14 6 2 6 14 22	5 33 16 25 5 43 16 11 5 52 15 56	1 6	18 19 18 21 18 23	0 42 0 42 0 42	18 24	0 59	14 54 14 53 14 53	0 27	21 14 1	1 29	10 46 17 30 10 47 17 30 10 48 17 31	9 37	10 13	16 32 16 33 16 34	10 50	0 13 0 13 0 13
T 8 W 9	5 1 4 38	7 30 0 39	9 45 2	2 4 14 38 2 2 14 52	6 1 15 42 6 10 15 27	1 7 1 7	18 25 18 28	0 42 0 42	18 26 18 27	0 59 0 59	14 53 14 52	0 27 0 27	21 14 1 21 14 1	1 30 1 30	10 48 17 31 10 49 17 31	9 35 9 35	10 11 10 10	16 35 16 36	10 52 10 53	0 13 0 13
T 10 F 11 S 12	4 14 3 51 3 27	14 54 1 56 17 19 3 4 18 36 4 1	7 29 1	1 59 15 6 1 55 15 19 1 51 15 31	6 18 15 12 6 27 14 57 6 35 14 42	1 8 1 8 1 8	18 33	0 41 0 41 0 41	18 27 18 28 18 29	0 59	14 52 14 51 14 51	0 27	21 14 1	1 30	10 50 17 31 10 51 17 32 10 52 17 32	9 35 9 36 9 36	10 8	10 5,	10 55	0 13 0 13 0 13
S 13 M14 T 15 W16 T 17 F 18	3 3 2 40 2 16 1 52 1 29 1 5	17 44 5 6 15 43 5 13 12 52 5 2 9 24 4 34 5 32 3 53	5 3 1 4 12 1 3 20 1 2 27 1 1 34 1	1 47 15 42 1 42 15 51 1 36 16 0 1 30 16 8 1 24 16 14 1 16 16 19	6 44 14 27 6 52 14 11 7 0 13 56 7 7 13 40 7 14 13 24 7 21 13 8		18 40 18 42 18 45 18 47 18 50	0 41 0 41 0 40 0 40 0 40 0 40	18 33 18 33 18 34	0 59 0 59 0 59 0 59 0 59	14 48	0 27 0 27 0 27 0 27 0 27 0 27	21 14 1 21 14 1 21 14 1 21 14 1 21 14 1	1 30 1 30 1 30 1 30 1 30	10 52 17 32 10 53 17 32 10 54 17 33 10 55 17 33 10 56 17 33 10 56 17 33		10 4 10 3 10 2 10 1 10 0	16 40 16 41 16 42 16 42 16 43	10 58 11 0 11 1 11 2 11 3	0 13 0 13 0 14 0 14 0 14 0 14
S 19 S 20 M21 T 22 W23 T 24 F 25 S 26	0 41 0 17 0n 6 0 30 0 54 1 17 1 41 2 4	13 6 1 17 15 36 2 19 17 25 3 14	2 9 0 3 5 0 4 2 0 4 59 0	1 9 16 23 1 0 16 25 0 51 16 26 0 42 16 26 0 32 16 24 0 22 16 21 0 11 16 16 0 0 16 10	7 28 12 52 7 34 12 36 7 39 12 19 7 44 12 3 7 49 11 46 7 53 11 29 7 56 11 13 7 59 10 56	1 10 1 10 1 11 1 11 1 11 1 11	18 52 18 55 18 57 19 0 19 3 19 5 19 8 19 10	0 39 0 39 0 39 0 39 0 38	18 35 18 36 18 37 18 37 18 38	0 59 0 59 0 59 0 59 0 59 0 59	14 48 14 47 14 46 14 46 14 45 14 45 14 44	0 27 0 28 0 28 0 28 0 28 0 28	21 14 1 21 13 1 21 13 1 21 13 1 21 13 1 21 13 1	1 30 1 30 1 30 1 30 1 30 1 30	10 57 17 33 10 58 17 34 10 59 17 34 10 59 17 34 11 0 17 34 11 1 17 34 11 2 17 34 11 2 17 34	9 28 9 27 9 27 9 26 9 27 9 27 9 28 9 28	9 57 9 56 9 55 9 54 9 53 9 51	16 46 16 47	11 5 11 6 11 7 11 8 11 9 11 10	0 14 0 14 0 14 0 14 0 14 0 14 0 14 0 14
S 27 M28 T 29 W30 T 31	2 28 2 51 3 15 3 38 4n 2	18 9 5 4 16 43 5 16 14 27 5 13	7 47 ( 8 41 ( 9 35 (	0n11 16 2 0 23 15 53 0 34 15 42 0 46 15 30 0n58 15n16	8 1 10 39 8 2 10 21 8 2 10 4 8 1 9 47 8n 0 9s30	1 12 1 12 1 12	19 13 19 16 19 18 19 21 19n23	0 38 0 38 0 38	18 40	0 59 0 59 0 59	14 43 14 43 14 42 14 41 14 s41	0 28 0 28 0 28	21 13 1 21 13 1 21 13 1	1 30 1 31 1 31	11 3 17 35 11 4 17 35 11 4 17 35 11 5 17 35 11 6 17n35	9 29 9 29 9 28	9 48 9 47 9 46	16 52	11 14 11 15 11 16	0 14 0 14 0 14 0 15 0 s15

 $\label{eq:Julian Day Number = 2443203.5, Delta T = 47.69 sec} \\ Ecliptic obliquity = 23°26'24, Nutation = 0°00'09, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 24°25'17, Lahiri = 23°32'17 \\$ 

APRIL 1977 00:00 UT

AI IX	LL 13//	'													00.0	0 0 1
Day	Sid.t	0	D	ğ	φ	ð	4	ħ	)∤(	并	В	S.	Ω	Ç	ķ	Day
F 1	12 36 58	11 <b>°</b> 9'02	29Ω12	26 <b>Υ</b> 25	19°R35	9 <b>)</b> 17	29829	10°R 3	10°R56	16°R 6	12°R52	24°R23	25 <b>♀</b> 7	27 <b>8</b> 26	0811	F 1
S 2	12 40 54	12° 8'12	13 Mg 0	28° 9	19 <b>Y</b> 0	10° 4	29°41	100 2	10 <b>M</b> .54	16 <b>₹</b> 5	12 <b>≙</b> 50	24 <b>≏</b> 21	25° 4	27°33	0°15	S 2
S 3	12 44 51	13° 7'21	27°13	29°49	18°23	10°51	29°52	10° 1	10°52	16° 5	12°49	24°20	25° 1	27°39	0°18	S 3
M 4	12 48 47	14° 6'26	11 <b>≏</b> 44	1825	17°46	11°38	0 <b>Ⅱ</b> 4	10° 0	10°50	16° 4	12°47	24°19	24°58	27°46	0°22	M 4
T 5	12 52 44	15° 5'30	26°30	2°56	17° 9	12°24	0°16	9°59	10°47	16° 4	12°45	24°D19	24°54	27°53	0°25	T 5
W 6	12 56 40	16° 4'32	11 <b>M</b> 22	4°23	16°31	13°11	0°28	9°59	10°45	16° 3	12°44	24°19	24°51	27°59	0°29	W 6
T 7	13 0 37	17° 3'33	26°13	5°45	15°53	13°58	0°40	9°58	10°43	16° 2	12°42	24°20	24°48	28° 6	0°33	T 7
F 8	13 433	18° 2'31	10 <b>∡</b> 756	7° 1	15°15	14°45	0°52	9°58	10°41	16° 2	12°40	24°20	24°45	28°13	0°36	F 8
S 9	13 8 30	19° 1'28	25°26	8°12	14°38	15°31	1° 4	9°57	10°38	16° 1	12°39	24°21	24°42	28°19	0°40	S 9
S 10	13 12 27	20° 0'23	9 <b>云</b> 38	9°17	14° 1	16°18	1°16	9°57	10°36	16° 0	12°37	24°21	24°39	28°26	0°43	S 10
M11	13 16 23	20°59'16	23°31	10°16	13°26	17° 5	1°28	9°D57	10°34	16° 0	12°35	24°R21	24°35	28°33	0°47	M11
T 12	13 20 20	21°58'07	7≈ 5	11° 9	12°52	17°52	1°41	9°57	10°31	15°59	12°34	24°21	24°32	28°39	0°51	T 12
W13	13 24 16	22°56'57	20°20	11°56	12°19	18°38	1°53	9°57	10°29	15°58	12°32	24°21	24°29	28°46	0°54	W13
T 14	13 28 13	23°55'45	3 <b>∺</b> 19	12°37	11°47	19°25	2° 5	9°58	10°27	15°57	12°30	24°D21	24°26	28°53	0°58	T 14
F 15	13 32 9	24°54'31	16° 2	13°12	11°18	20°12	2°18	9°58	10°24	15°57	12°29	24°21	24°23	28°59	1° 2	F 15
S 16	13 36 6	25°53'15	28°31	13°40	10°50	20°58	2°30	9°58	10°22	15°56	12°27	24°21	24°19	29° 6	1° 5	S 16
S 17	13 40 2	26°51'58	10 <b>Y</b> 49	14° 2	10°25	21°45	2°43	9°59	10°19	15°55	12°26	24°21	24°16	29°13	1° 9	S 17
M18	13 43 59	27°50'39	22°58	14°18	10° 1	22°31	2°56	10° 0	10°17	15°54	12°24	24°R21	24°13	29°19	1°13	M18
T 19	13 47 56	28°49'17	4 <b>8</b> 58	14°27	9°40	23°18	3° 8	10° 0	10°14	15°53	12°22	24°21	24°10	29°26	1°16	T 19
W20	13 51 52	29°47'54	16°52	14°R31	9°21	24° 4	3°21	10° 1	10°12	15°52	12°21	24°21	24° 7	29°33	1°20	W20
T 21	13 55 49	0846'29	28°43	14°28	9° 4	24°51	3°34	10° 2	10° 9	15°51	12°19	24°20	24° 4	29°39	1°24	T 21
F 22	13 59 45	1°45'02	10 <b>Ⅲ</b> 31	14°20	8°50	25°37	3°47	10° 3	10° 7	15°50	12°18	24°19	24° 0	29°46	1°27	F 22
S 23	14 3 42	2°43'33	22°22	14° 7	8°38	26°24	4° 0	10° 5	10° 4	15°49	12°16	24°18	23°57	29°53	1°31	S 23
S 24	14 7 38	3°42'02	49516	13°48	8°29	27°10	4°13	10° 6	10° 2	15°48	12°15	24°17	23°54	29°59	1°35	S 24
M25	14 11 35	4°40'29	16°20	13°25	8°22	27°57	4°26	10° 7	9°59	15°47	12°13	24°16	23°51	0 <b>I</b> I 6	1°39	M25
T 26	14 15 31	5°38'53	28°36	12°58	8°17	28°43	4°39	10° 9	9°57	15°45	12°12	24°15	23°48	0°13	1°42	T 26
W27	14 19 28	6°37'16	11 <b>0</b> 8	12°27	8°D15	29°30	4°52	10°11	9°54	15°44	12°10	24°D15	23°45	0°19	1°46	W27
T 28	14 23 25	7°35'36	24° 2	11°54	8°15	0 <b>Υ</b> 16	5° 5	10°12	9°52	15°43	12° 9	24°16	23°41	0°26	1°50	T 28
F 29	14 27 21	8°33'54	7 <b>m</b> 20	11°17	8°18	1° 2	5°19	10°14	9°49	15°42	12° 7	24°17	23°38	0°33	1°53	F 29
S 30	14 31 18	9 <b>8</b> 32'10	21 mg 4	10840	8 <b>Y</b> 23	1 <b>Y</b> 48	5 <b>Ⅲ</b> 32	10 <b>Ω</b> 16	9 <b>M</b> 47	15 <b>×7</b> 41	12 <b>♀</b> 6	24 <b>₽</b> 18	23 <b>♀</b> 35	0П39	1 <b>8</b> 57	S 30

Day	0	J	)	ζ	5	ç	)	d	7	2	<b>+</b>	ħ	<u></u>	);	<del>j</del> (	4	7	E	2	n	Ω	Ç	ď	5
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	4n25	7n41	4 s 2 0	11n17	1n10	15n 1	7n58	9 s 1 2	1 s 1 2	19n26	0 s37	18n41	0n59	14 s40	0n28	21 s13	1n31	11n 7	17n35	9 s27	9 s43	16n54	11n19	0s15
S 2	4 48	3 27	3 30	12 5	1 22	14 45	7 55	8 55	1 12	19 29	0 37	18 41	0 59	14 40	0 28	21 13	1 31	11 7	17 35	9 26	9 42	16 55	11 20	0 15
S 3	5 11	1 s 6		12 51	1 33		7 51	8 37		19 31		18 42		14 39		21 13		-	17 35	9 26		16 56		0 15
M 4	5 34	5 42		15 50	1 44	-	7 46	8 19		19 34	0 37	18 42		14 38		21 12			17 35	9 26	9 40			0 15
T 5		10 2 13 46	-	14 17 14 56	1 55 2 5	13 48 13 27	7 40 7 33	8 1 7 44		19 37 19 39	0 37	18 42 18 42		14 38 14 37		21 12 21 12		11 9 11 10	17 35	9 26 9 26	9 39	16 57 16 58	11 23	0 15 0 15
T 7		16 35		15 33			7 26	7 26		19 39		18 42		14 37		21 12		11 10		9 26		16 59		0 15
F 8	-	18 16		16 7		12 43	7 17	7 8		19 45		18 42		14 35		21 12		11 11		9 26		16 59	-	0 15
S 9	7 27	18 44	4 38	16 37	2 31	12 20	7 8	6 50	1 13	19 47	0 36	18 42	0 59	14 35	0 28	21 12	1 31	11 12	17 35	9 26	9 34	17 0	11 28	0 15
S 10	7 49	17 59	5 7	17 5	2 39	11 57	6 59	6 32	1 13	19 50	0 36	18 42	0 59	14 34	0 28	21 12	1 31	11 12	17 35	9 26	9 33	17 1	11 29	0 15
M11	8 11	16 10	5 18	17 30	2 45	11 34	6 48	6 13	1 13	19 52	0 36	18 42	0 59	14 33	0 28	21 12	1 31	11 13	17 35	9 26	9 32	17 2	11 30	0 15
T 12	8 33	13 30	-	17 52	2 50	-	6 37	5 55		19 55		18 42		14 33		21 12			17 35	9 26	9 30		11 32	0 15
W13		10 11	-	-	2 55		6 25	5 37		19 58		18 42		14 32		21 11	1 31			9 26	9 29		11 33	
T 14 F 15	9 17 9 39	6 27 2 29		18 27 18 39	2 58	10 23 9 59	6 13	5 19 5 0	1 13 1 13		0 35 0 35			14 31 14 30		21 11 21 11	1 31	11 14 11 15		9 26 9 26	9 28 9 27	-	11 34 11 35	0 16 0 16
S 16	10 0	2 29 1n32	-	18 49	3 1	9 39	6 0 5 47	4 42	1 13			18 42		14 30		21 11		11 15		9 26	9 26	-	11 33	0 16
S 17	10 21	5 26		18 55		9 14	5 34	4 24	1 13			18 42		14 29		21 11		11 16		9 26	9 25		11 38	0 16
M18	10 42	9 3	-	18 58	2 59	8 52	5 20	4 24		20 8		18 42		14 29		21 11		11 16		9 26	9 23		11 36	0 16
T 19		12 15		18 58	2 56	8 31	5 6	3 47		20 13		18 41		14 27		21 11	1 31	-	17 34	9 26	9 22		11 40	0 16
W20	11 24	14 56	2 2	18 55	2 51	8 11	4 52	3 28	1 13	20 16	0 34	18 41	0 59	14 26	0 28	21 11	1 31	11 17	17 34	9 26	9 21	17 8	11 41	0 16
	11 45	16 57	2 59	18 49	2 45	7 51	4 38	3 10	1 13	20 18	0 34	18 41	0 59	14 26	0 28	21 10	1 31	11 18	17 34	9 26	9 20		11 43	0 16
F 22	-	18 15		18 39	2 38		4 24	2 51		20 21		18 41		14 25		21 10		11 18		9 26	9 19		11 44	
S 23	12 25	18 44	4 29	18 27	2 30	7 15	4 10	2 33	1 13	20 24	0 34	18 40	0 59	14 24	0 28	21 10	1 31	11 19	17 33	9 25	9 18	17 10	11 45	0 16
S 24		18 24		18 12		6 58	3 56	2 14		20 26		18 40		14 23		21 10		11 19		9 25		17 11	-	
M25		17 15		17 55	2 9	6 43	3 42	1 56		20 29	0 34			14 22		21 10				9 25		17 11		0 16
T 26 W27	13 24 13 44	15 17		17 35	1 56	6 28	3 28	1 37		20 31 20 34	0 34	18 39 18 39		14 22		21 10 21 10		11 20		9 24 9 24		17 12 17 13		0 16 0 16
T 28	13 44 14 3	9 11	5 3	17 12 16 48	1 43 1 28	6 15 6 2	3 14 3 1	1 19 1 0		20 34 20 36		18 39		14 21 14 20					17 33 17 32	9 24		17 13		0 16
F 29	14 21	5 14		16 22	1 13	5 51	2 47	0 42		20 30		18 38		14 19					17 32	9 25		17 14	-	
S 30	14n40	0n53		15n55	-	5n41	2n34	0 s23		20n41		18n37		14s19		21s 9			17n32			-	11n53	

 $\label{eq:Julian Day Number = 2443234.5, Delta T = 47.77 sec} \\ Ecliptic obliquity = 23°26'24, Nutation = 0°00'07, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 24°25'21, Lahiri = 23°32'21 \\ \\$ 

MAY 1977 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)∤(	并	Р	₽.	Ω	Ç	ę,	Day
S 1	14 35 14	10830'24	5 <b>₽</b> 15	10°R 1	8 <b>Υ</b> 30	2 <b>Y</b> 35	5 <b>Ⅱ</b> 45	10 <b>Ω</b> 18	9°R44	15°R40	12°R 4	24 <b>₽</b> 19	23 <b>£</b> 32	0 <b>Д</b> 46	2 <b>8</b> 1	S 1
M 2	14 39 11	11°28'37	19°50	9 <b>8</b> 22	8°39	3°21	5°59	10°20	9 <b>M</b> .42	15 <b>∡</b> 38	12 <b>♀</b> 3	24°R20	23°29	0°53	2° 4	M 2
T 3	14 43 7	12°26'47	4M46	8°44	8°50	4° 7	6°12	10°23	9°39	15°37	12° 1	24°19	23°25	0°59	2° 8	T 3
W 4	14 47 4	13°24'56	19°53	8° 6	9° 4	4°53	6°25	10°25	9°36	15°36	12° 0	24°18	23°22	1° 6	2°11	W 4
T 5	14 51 0	14°23'03	5 <b>√</b> 4	7°31	9°19	5°39	6°39	10°27	9°34	15°34	11°59	24°16	23°19	1°13	2°15	T 5
F 6	14 54 57	15°21'08	20° 9	6°57	9°37	6°26	6°52	10°30	9°31	15°33	11°57	24°14	23°16	1°19	2°19	F 6
S 7	14 58 54	16°19'12	4 <b>궁</b> 58	6°27	9°56	7°12	7° 6	10°33	9°29	15°32	11°56	24°11	23°13	1°26	2°22	S 7
S 8	15 2 50	17°17'15	19°26	6° 0	10°17	7°58	7°19	10°35	9°26	15°30	11°55	24° 8	23°10	1°33	2°26	S 8
M 9	15 6 47	18°15'16	3≈28	5°36	10°40	8°44	7°33	10°38	9°24	15°29	11°53	24° 7	23° 6	1°39	2°30	M 9
T 10	15 10 43	19°13'16	17° 5	5°17	11° 5	9°30	7°47	10°41	9°21	15°28	11°52	24°D 6	23° 3	1°46	2°33	T 10
W11	15 14 40	20°11'15	0 <b>∺</b> 17	5° 2	11°31	10°16	8° 0	10°44	9°19	15°26	11°51	24° 6	23° 0	1°53	2°37	W11
T 12	15 18 36	21° 9'12	13° 7	4°51	11°59	11° 1	8°14	10°47	9°16	15°25	11°50	24° 7	22°57	1°59	2°40	T 12
F 13	15 22 33	22° 7'08	25°38	4°44	12°29	11°47	8°28	10°51	9°14	15°23	11°48	24° 9	22°54	2° 6	2°44	F 13
S 14	15 26 29	23° 5'03	7 <b>Υ</b> 54	4°D43	13° 0	12°33	8°41	10°54	9°11	15°22	11°47	24°11	22°50	2°13	2°47	S 14
S 15	15 30 26	24° 2'56	20° 0	4°46	13°32	13°19	8°55	10°57	9° 9	15°20	11°46	24°R12	22°47	2°19	2°51	S 15
M16	15 34 23	25° 0'48	1 <b>8</b> 57	4°53	14° 6	14° 5	9° 9	11° 1	9° 7	15°19	11°45	24°11	22°44	2°26	2°54	M16
T 17	15 38 19	25°58'39	13°49	5° 5	14°41	14°50	9°23	11° 5	9° 4	15°17	11°44	24°10	22°41	2°33	2°58	T 17
W18	15 42 16	26°56'28	25°39	5°22	15°17	15°36	9°37	11°8	9° 2	15°16	11°43	24° 6	22°38	2°39	3° 1	W18
T 19	15 46 12	27°54'16	7 <b>Ⅱ</b> 28	5°43	15°54	16°22	9°50	11°12	8°59	15°14	11°42	24° 2	22°35	2°46	3° 5	T 19
F 20	15 50 9	28°52'03	19°18	6° 8	16°33	17° 7	10° 4	11°16	8°57	15°13	11°41	23°56	22°31	2°53	3° 8	F 20
S 21	15 54 5	29°49'48	19512	6°38	17°12	17°53	10°18	11°20	8°55	15°11	11°40	23°49	22°28	2°59	3°11	S 21
S 22	15 58 2	0 <b>Ⅱ</b> 47'32	13°11	7°11	17°53	18°38	10°32	11°24	8°52	15°10	11°39	23°43	22°25	3° 6	3°15	S 22
M23	16 1 58	1°45'14	25°18	7°49	18°35	19°24	10°46	11°28	8°50	15° 8	11°38	23°37	22°22	3°13	3°18	M23
T 24	16 5 55	2°42'55	$7\Omega_{36}$	8°30	19°17	20° 9	11° 0	11°32	8°48	15° 7	11°37	23°33	22°19	3°20	3°22	T 24
W25	16 9 52	3°40'34	20° 8	9°15	20° 1	20°54	11°14	11°37	8°46	15° 5	11°36	23°30	22°16	3°26	3°25	W25
T 26	16 13 48	4°38'12	2 Mp 58	10° 4	20°46	21°40	11°28	11°41	8°43	15° 3	11°35	23°D29	22°12	3°33	3°28	T 26
F 27	16 17 45	5°35'48	16° 9	10°56	21°31	22°25	11°42	11°45	8°41	15° 2	11°35	23°30	22° 9	3°40	3°31	F 27
S 28	16 21 41	6°33'23	29°44	11°52	22°17	23°10	11°56	11°50	8°39	15° 0	11°34	23°31	22° 6	3°46	3°35	S 28
S 29	16 25 38	7°30'56	13 <b>≏</b> 45	12°51	23° 4	23°55	12° 9	11°55	8°37	14°59	11°33	23°32	22° 3	3°53	3°38	S 29
M30	16 29 34	8°28'28	28°12	13°53	23°52	24°40	12°23	11°59	8°35	14°57	11°32	23°R32	22° 0	4° 0	3°41	M30
T 31	16 33 31	9 <b>Ⅲ</b> 25'58	13M 2	14 <b>8</b> 59	24 <b>Υ</b> 41	25 <b>Y</b> 25	12 <b>Ⅲ</b> 37	$12\Omega$ 4	8 <b>M</b> .33	14 <b>×</b> 755	11 <b>≏</b> 32	23 <b>≏</b> 31	21 <b>≏</b> 56	4 <b>I</b> I 6	3 <b>8</b> 44	T 31

Day	0	D	ğ	Ф	♂ <sup>1</sup>	4	ħ	)Å(	¥	Р	n	v t	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl decl	decl lat
M 2 T 3 W 4 T 5 F 6 S 7 S 8 M 9 T 10 W11	16 9 16 26 16 43 17 0 17 16	8 8 0 25 12 12 0n57 15 31 2 17 17 46 3 26 18 44 4 21 18 23 4 58 16 51 5 14 14 20 5 11	14 30 0 6 14 2 0s11 13 34 0 29 13 7 0 46 12 41 1 2 12 17 1 18 11 55 1 34 11 35 1 48 11 17 2 2	5 24 2 9 5 17 1 56 5 11 1 44 5 7 1 32 5 3 1 21 5 0 1 9 4 58 0 59 4 57 0 48 4 58 0 37 4 59 0 27	0n14 1 12 0 32 1 12 0 50 1 12 1 9 1 12 1 27 1 12 1 46 1 12 2 4 1 11 2 40 1 11 2 59 1 11	21 0 0 32 21 3 0 32 21 5 0 32	18 36 0 59 18 35 0 59 18 34 0 59 18 34 0 59 18 33 0 59 18 32 0 59 18 32 0 59 18 31 0 59 18 31 0 59 18 30 0 59 18 30 0 59 18 29 0 59	14 17 0 28 14 16 0 28 14 15 0 27 14 15 0 27 14 14 0 27 14 13 0 27 14 12 0 27 14 11 0 27 14 11 0 27 14 10 0 27	21 9 1 32 21 8 1 32 21 7 1 32 21 7 1 32	11 22 17 31 11 22 17 31 11 22 17 31 11 23 17 30 11 23 17 30 11 23 17 30 11 23 17 30 11 24 17 29 11 24 17 29 11 24 17 29	9 s26 9 26 9 26 9 25 9 25 9 24 9 23 9 22 9 21 9 21 9 21	9 7 17 16 9 6 17 17 9 5 17 18	12 2 0 17 12 3 0 17 12 4 0 17 12 5 0 17 12 6 0 17
F 13 S 14 S 15 M16 T 17 W18 T 19 F 20	18 18 18 33 18 47 19 1 19 15 19 28 19 42 19 54	0n34 2 31 4 29 1 28 8 10 0 23 11 29 0s42 14 19 1 45 16 31 2 44 18 2 3 35 18 45 4 16	10 48 2 27 10 37 2 38 10 28 2 48 10 22 2 57 10 19 3 5 10 18 3 12 10 19 3 18 10 22 3 23	5 3 0 8 5 7 0s 1 5 11 0 10 5 16 0 19 5 22 0 27 5 29 0 35 5 36 0 43 5 44 0 51	3 35	21 12 0 31 21 14 0 31 21 16 0 31 21 19 0 31 21 21 0 31 21 23 0 31 21 25 0 31 21 27 0 31	18 27 0 59 18 26 0 59 18 25 0 59 18 24 0 59 18 23 0 59 18 22 0 59 18 21 0 59 18 20 0 59	14 8 0 27 14 8 0 27 14 7 0 27 14 6 0 27 14 5 0 27 14 5 0 27 14 4 0 27 14 3 0 27	21 7 1 32 21 7 1 32 21 7 1 32 21 6 1 32	11 24 17 28 11 24 17 27 11 24 17 27 11 24 17 27 11 24 17 26 11 25 17 26 11 25 17 26 11 25 17 25	9 22 9 23 9 23 9 23 9 22 9 21 9 19 9 17	8 54 17 23 8 53 17 24 8 52 17 25 8 51 17 25 8 49 17 26 8 48 17 26 8 47 17 27 8 46 17 28	12 9 0 18 12 10 0 18 12 11 0 18 12 12 0 18 12 13 0 18 12 14 0 18 12 15 0 18 12 16 0 18
S 22 M23 T 24 W25 T 26 F 27 S 28 S 29 M30	20 19 20 31 20 42 20 53 21 4 21 14 21 24 21 34 21 43	15 59 5 10 13 31 5 1 10 22 4 38 6 41 4 0 2 34 3 9 1 s49 2 6 6 14 0 53 10 26 0n25	10 36 3 30	6 1 1 5 6 11 1 12 6 21 1 18 6 32 1 24 6 43 1 30 6 54 1 36 7 6 1 41 7 19 1 47 7 32 1 52	6 15 1 8 6 33 1 8 6 50 1 8 7 7 1 7 7 25 1 7 7 42 1 7 7 59 1 6 8 16 1 6 8 32 1 6	21 31 0 30 21 34 0 30 21 36 0 30 21 38 0 30 21 40 0 30 21 42 0 30 21 44 0 30 21 45 0 30 21 47 0 30	18 16 0 59 18 14 0 59 18 13 0 59 18 12 0 59 18 11 0 59 18 9 0 59 18 8 0 59	14 2 0 27 14 1 0 27 14 0 0 27 13 59 0 27 13 59 0 27 13 57 0 27 13 57 0 27 13 56 0 27	21 5 1 32 21 4 1 32	11 25 17 24 11 24 17 24 11 24 17 23 11 24 17 23 11 24 17 23 11 24 17 22 11 24 17 22 11 24 17 21	9 15 9 12 9 10 9 9 9 8 9 7 9 8 9 8 9 8 9 8 9 8 9 8	8 41 17 30 8 40 17 31	12 19 0 18 12 20 0 18 12 21 0 19 12 22 0 19 12 23 0 19 12 24 0 19 12 25 0 19 12 26 0 19 12 27 0 19

Julian Day Number = 2443264.5, Delta T = 47.86 sec Ecliptic obliquity = 23°26'24, Nutation = 0°00'06, out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^\circ25'25$ , Lahiri =  $23^\circ32'26$ 

JUNE 1977 00:00 UT

Day	Sid.t	0	D	ğ	·	ð	4	ħ	)∤(	并	В	Ŋ	ß	Ç	ķ	Day
W 1	16 37 27	10Ⅲ23′28	28 <b>M</b> 10	16 <b>8</b> 7	25 <b>Y</b> 30	26 <b>Υ</b> 10	12 <b>Ⅱ</b> 51	12 <b>N</b> 9	8°R31	14°R54	11°R31	23°R27	21 <b>≏</b> 53	4 <b>Ⅱ</b> 13	3 <b>8</b> 47	W 1
T 2	16 41 24	11°20'56	13 <b>×</b> 26	17°19	26°20	26°55	13° 5	12°14	8 <b>M</b> 29	14 <b>×</b> 752	11 <b>≏</b> 30	23 <u><b>2</b></u> 22	21°50	4°20	3°50	T 2
F 3	16 45 21	12°18'24	28°40	18°33	27°11	27°40	13°19	12°19	8°27	14°51	11°30	23°15	21°47	4°26	3°53	F 3
S 4	16 49 17	13°15'50	13 <b>る</b> 41	19°51	28° 2	28°25	13°33	12°24	8°25	14°49	11°29	23° 8	21°44	4°33	3°57	S 4
S 5	16 53 14	14°13'16	28°22	21°11	28°54	29°10	13°47	12°29	8°23	14°47	11°28	23° 1	21°41	4°40	4° 0	S 5
M 6	16 57 10	15°10'41	12≈35	22°34	29°46	29°54	14° 1	12°34	8°21	14°46	11°28	22°55	21°37	4°46	4° 3	M 6
T 7	17 1 7	16° 8'05	26°19	24° 0	0840	0 <b>8</b> 39	14°15	12°40	8°19	14°44	11°27	22°51	21°34	4°53	4° 5	T 7
W 8	17 5 3	17° 5'29	9 <b>) (</b> 34	25°29	1°33	1°24	14°29	12°45	8°17	14°42	11°27	22°50	21°31	5° 0	4° 8	W 8
T 9	17 9 0	18° 2'52	22°24	27° 0	2°27	2° 8	14°43	12°50	8°16	14°41	11°27	22°D49	21°28	5° 6	4°11	T 9
F 10	17 12 56	19° 0'15	4 <b>Υ</b> 52	28°35	3°22	2°53	14°57	12°56	8°14	14°39	11°26	22°50	21°25	5°13	4°14	F 10
S 11	17 16 53	19°57'37	17° 3	0П12	4°17	3°37	15°11	13° 2	8°12	14°38	11°26	22°R51	21°22	5°20	4°17	S 11
S 12	17 20 50	20°54'58	29° 2	1°52	5°13	4°22	15°25	13° 7	8°10	14°36	11°25	22°51	21°18	5°26	4°20	S 12
M13	17 24 46	21°52'19	10854	3°34	6° 9	5° 6	15°39	13°13	8° 9	14°34	11°25	22°49	21°15	5°33	4°23	M13
T 14	17 28 43	22°49'40	22°43	5°19	7° 6	5°50	15°53	13°19	8° 7	14°33	11°25	22°45	21°12	5°40	4°25	T 14
W15	17 32 39	23°47'00	4 <b>Ⅱ</b> 31	7° 7	8° 3	6°35	16° 6	13°24	8° 6	14°31	11°25	22°38	21° 9	5°47	4°28	W15
T 16	17 36 36	24°44'20	16°21	8°57	9° 1	7°19	16°20	13°30	8° 4	14°30	11°24	22°29	21° 6	5°53	4°31	T 16
F 17	17 40 32	25°41'39	28°16	10°50	9°58	8° 3	16°34	13°36	8° 3	14°28	11°24	22°19	21° 2	6° 0	4°33	F 17
S 18	17 44 29	26°38'57	10917	12°46	10°57	8°47	16°48	13°42	8° 1	14°26	11°24	22° 7	20°59	6° 7	4°36	S 18
S 19	17 48 25	27°36'15	22°24	14°44	11°55	9°31	17° 2	13°48	8° 0	14°25	11°24	21°55	20°56	6°13	4°38	S 19
M20	17 52 22	28°33'33	4Ω41	16°44	12°54	10°15	17°16	13°55	7°59	14°23	11°24	21°45	20°53	6°20	4°41	M20
T 21	17 56 19	29°30'49	17° 7	18°46	13°54	10°58	17°29	14° 1	7°57	14°22	11°24	21°36	20°50	6°27	4°43	T 21
W22	18 0 15	0928'05	29°45	20°50	14°53	11°42	17°43	14° 7	7°56	14°20	11°D24	21°30	20°47	6°33	4°46	W22
T 23	18 4 12	1°25'20	12 <b>m</b> y37	22°56	15°53	12°26	17°57	14°13	7°55	14°19	11°24	21°26	20°43	6°40	4°48	T 23
F 24	18 8 8	2°22'35	25°46	25° 3	16°54	13°10	18°11	14°20	7°54	14°17	11°24	21°25	20°40	6°47	4°50	F 24
S 25	18 12 5	3°19'49	9 <b>≏</b> 16	27°12	17°54	13°53	18°24	14°26	7°53	14°16	11°24	21°D25	20°37	6°53	4°53	S 25
S 26	18 16 1	4°17'02	23° 7	29°21	18°55	14°37	18°38	14°32	7°52	14°14	11°24	21°R25	20°34	7° 0	4°55	S 26
M27	18 19 58	5°14'15	7 <b>M</b> 21	19532	19°57	15°20	18°52	14°39	7°51	14°13	11°24	21°24	20°31	7° 7	4°57	M27
T 28	18 23 54	6°11'27	21°57	3°43	20°58	16° 3	19° 5	14°46	7°50	14°11	11°25	21°21	20°28	7°13	4°59	T 28
W29	18 27 51	7° 8'39	6 <b>₹</b> 750	5°54	22° 0	16°47	19°19	14°52	7°49	14°10	11°25	21°16	20°24	7°20	5° 2	W29
T 30	18 31 48	895 5'51	21 <b>×</b> 756	899 5	238 2	17830	19 <b>Ⅲ</b> 32	$14\Omega 59$	7 <b>M</b> .48	14 <b>×7</b> 8	11 <b>♀</b> 25	21 <b>♀</b> 8	20 <b>♀</b> 21	7 <b>∏</b> 27	5 <b>8</b> 4	T 30

Day	0	J	)	ζ	5	ç	)	ď	7	2	ł	ŧ	ì	)	f(	卉		Р	ß	S	Ç	ę,	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	;	decl lat	decl	decl	decl	decl l	at
W 1 T 2	22n 0 22 8	16 s 5 3 18 3 0	3 56	13n31 13 56	3 12	7n59 8 13	2s 1 2 5	9n 6 9 22	1 4	21n51 21 53	0 s29 0 29	18 4	0 59	13 s55 13 54	0 27	21 3 1	32	11n23 17n20 11 23 17 19	9s 7 9 5	8 30	17n35 17 35	12 30	0s19 0 19
F 3 S 4	22 16 22 23	18 46 17 42	5 3	14 22 14 49	3 6 3 0		2 10 2 14	9 39 9 55	1 4	21 55 21 57	0 29 0 29	18 1	0 59	13 54 13 53	0 27	21 3 1	32	11 23 17 19 11 23 17 18	9 2 8 59		17 36	12 32	0 19 0 19
S 5 M 6 T 7	22 30 22 37 22 43	15 29 12 24 8 43		15 16 15 45 16 14	2 53 2 45 2 37	9 12	2 21	10 28	1 3	21 58 22 0 22 2	0 29 0 29 0 29	17 58	0 59	13 52 13 52 13 51		21 3 1	32	11 23 17 18 11 22 17 17 11 22 17 17	8 57 8 55 8 53	8 27 8 26 8 25		12 34	0 19 0 20 0 20
W 8 T 9	22 49 22 54	4 43 0 38	3 31	16 43 17 13	2 29	9 43	2 27	10 59	1 2 1 1	22 4 22 5	0 29 0 29	17 55 17 54	0 59	13 51 13 50	0 27	21 2 1 21 2 1	32	11 22 17 17 11 22 17 16 11 21 17 16	8 53 8 53	8 23	17 39 17 39	12 35	0 20 0 20 0 20
F 10 S 11	22 59 23 4	3n23 7 11	0 31	17 43 18 13			2 36	11 31 11 46	1 1 1 1	22 7 22 9		17 50	0 59	13 50 13 49	0 27		32	11 21 17 15 11 21 17 15	8 53 8 53	8 20	17 40 17 40	12 38	0 20 0 20
S 12 M13 T 14	_	10 37 13 35 15 59	1 35	18 43 19 13 19 43	1 51 1 41 1 30	11 3	2 40		1 0	22 10 22 12 22 13	0 29 0 28 0 28		0 59	13 49 13 48 13 48	0 27	21 1 1	32	11 20 17 14 11 20 17 14 11 20 17 13	8 53 8 52 8 51			12 40	0 20 0 20 0 20
W15 T 16 F 17	23 18 23 20 23 22		-	20 12 20 41 21 8	1 19 1 8 0 57	11 53	2 46	12 47 13 2 13 17	0 58	22 15 22 16 22 18	0 28 0 28 0 28	17 42	0 59	13 47 13 47 13 46	0 27	21 1 1	32	11 19 17 13 11 19 17 12 11 19 17 12	8 48 8 45 8 41	-	17 42 17 43 17 43	12 42	0 20 0 20 0 21
S 18 S 19	23 24 23 25		4 56 5 3	21 35 22 0	0 45		-	13 31 13 46		22 19 22 21		17 39 17 37		13 46 13 45				11 18 17 11 11 18 17 11	8 37 8 32	8 11	17 44 17 44	12 44	0 21
M20 T 21	23 26 23 26	14 19 11 21	4 55 4 34	22 24 22 47	0 22 0 11	12 59 13 16	2 51 2 52	14 0 14 14	0 56 0 56	22 22 22 23	0 28 0 28	17 35 17 34	0 59 0 59	13 45 13 45	0 27 0 27	21 0 1 21 0 1	32 32	11 17 17 10 11 17 17 10	8 28 8 25	8 9 8 8	17 45 17 45	12 45 12 46	0 21 0 21
W22 T 23 F 24	23 26 23 26 23 25	7 50 3 53 0s20	3 59 3 11 2 12	23 26	0 0 0n11 0 22	13 49	2 54	14 28 14 42 14 56	0 55	22 25 22 26 22 27	0 28 0 28 0 28	17 30	0 59	13 44 13 44 13 44	0 26	21 0 1	32	11 16 17 9 11 16 17 9 11 15 17 8	8 23 8 21 8 21	8 7 8 6 8 4	17 46 17 46 17 47	12 48	0 21 0 21 0 21
S 25 S 26	23 24	4 39		23 56	0 32	14 22	2 54		0 53	22 29	0 28	17 26 17 24	0 59	13 43 13 43	0 26	21 0 1	32	11 15 17 7 11 14 17 7	8 21 8 21	8 3	17 47 17 48	12 49	0 21
M27 T 28	23 20 23 18	12 39 15 46	1 24 2 34	24 17 24 23	0 51 1 0	14 55 15 11	2 55 2 55	15 36 15 49	0 52 0 52	22 31 22 32	0 27 0 27	17 22 17 21	0 59 0 59	13 43 13 42	0 26 0 26	20 59 1 20 59 1	32	11 14 17 6 11 13 17 6	8 21 8 20	8 1 8 0	17 48 17 49	12 50 12 51	0 21 0 21
W29 T 30	23 15 23n12	-, -,		24 26 24n27	1 8 1n15	15 27 15n43	2 54 2 s 54	16 2 16n15		22 33 22n35		17 19 17n17		13 42 13 s42			-	11 12 17 5 11n12 17n 5	8 18 8 s 1 5		17 49 17n50		0 22 0 s22

 $\label{eq:Julian Day Number = 2443295.5, Delta T = 47.94 sec} \\ Ecliptic obliquity = 23°26'23, Nutation = 0°00'06, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 24°25'29, Lahiri = 23°32'30} \\$ 

JULY 1977 00:00 UT

Day	Sid.t	0	D	ğ	·	ð	4	ħ	)∤(	并	В	₽.	v	Ç	ķ	Day
F 1	18 35 44	99 3'02	7중 3	109915	248 4	18813	19 <b>Ⅱ</b> 46	15 <b>Ω</b> 5	7°R47	14°R 7	11 <b>≏</b> 25	20°R58	20₽18	7 <b>Ⅲ</b> 33	5 <b>8</b> 6	F 1
S 2	18 39 41	10° 0'14	22° 2	12°25	25° 7	18°56	19°59	15°12	7 <b>M</b> 47	14 <b>₹</b> 5	11°26	20 <u>₽</u> 48	20°15	7°40	5° 8	S 2
S 3	18 43 37	10°57'25	6≈44	14°35	26°10	19°39	20°13	15°19	7°46	14° 4	11°26	20°37	20°12	7°47	5°10	S 3
M 4	18 47 34	11°54'36	21° 1	16°43	27°13	20°22	20°26	15°26	7°45	14° 2	11°27	20°29	20° 8	7°54	5°11	M 4
T 5	18 51 30	12°51'47	4 <b>)</b> €50	18°50	28°16	21° 5	20°40	15°33	7°45	14° 1	11°27	20°22	20° 5	8° 0	5°13	T 5
W 6	18 55 27	13°48'59	18° 9	20°55	29°20	21°48	20°53	15°40	7°44	14° 0	11°27	20°18	20° 2	8° 7	5°15	W 6
T 7	18 59 23	14°46'11	1 <b>Υ</b> 2	22°59	0П24	22°30	21° 6	15°46	7°43	13°58	11°28	20°16	19°59	8°14	5°17	T 7
F 8	19 3 20	15°43'23	13°31	25° 1	1°28	23°13	21°20	15°53	7°43	13°57	11°28	20°15	19°56	8°20	5°19	F 8
S 9	19 7 17	16°40'36	25°43	27° 2	2°32	23°56	21°33	16° 0	7°43	13°56	11°29	20°15	19°53	8°27	5°20	S 9
S 10	19 11 13	17°37'49	7 <b>8</b> 42	29° 1	3°36	24°38	21°46	16° 7	7°42	13°54	11°30	20°15	19°49	8°34	5°22	S 10
M11	19 15 10	18°35'02	19°33	$0$ $\Omega$ 58	4°41	25°21	21°59	16°15	7°42	13°53	11°30	20°12	19°46	8°40	5°24	M11
T 12	19 19 6	19°32'16	1 <b>Ⅲ</b> 21	2°54	5°46	26° 3	22°12	16°22	7°42	13°52	11°31	20° 7	19°43	8°47	5°25	T 12
W13	19 23 3	20°29'31	13°11	4°47	6°51	26°45	22°25	16°29	7°41	13°51	11°32	20° 0	19°40	8°54	5°27	W13
T 14	19 26 59	21°26'45	25° 6	6°39	7°56	27°27	22°38	16°36	7°41	13°49	11°32	19°50	19°37	9° 0	5°28	T 14
F 15	19 30 56	22°24'01	799 7	8°29	9° 1	28°10	22°51	16°43	7°41	13°48	11°33	19°37	19°34	9° 7	5°29	F 15
S 16	19 34 52	23°21'16	19°18	10°16	10° 7	28°52	23° 4	16°51	7°D41	13°47	11°34	19°24	19°30	9°14	5°31	S 16
S 17	19 38 49	24°18'32	1 <b>Ω</b> 38	12° 2	11°13	29°33	23°17	16°58	7°41	13°46	11°35	19°11	19°27	9°21	5°32	S 17
M18	19 42 46	25°15'49	14° 8	13°47	12°19	0 <b>Ⅱ</b> 15	23°30	17° 5	7°41	13°45	11°36	18°58	19°24	9°27	5°33	M18
T 19	19 46 42	26°13'05	26°49	15°29	13°25	0°57	23°43	17°12	7°41	13°44	11°36	18°48	19°21	9°34	5°34	T 19
W20	19 50 39	27°10'22	9 <b>m</b> /41	17° 9	14°31	1°39	23°55	17°20	7°42	13°43	11°37	18°41	19°18	9°41	5°35	W20
T 21	19 54 35	28° 7'39	22°45	18°48	15°37	2°20	24° 8	17°27	7°42	13°42	11°38	18°36	19°14	9°47	5°37	T 21
F 22	19 58 32	29° 4'57	6 <b>₽</b> 2	20°24	16°44	3° 2	24°21	17°35	7°42	13°41	11°39	18°34	19°11	9°54	5°38	F 22
S 23	20 2 28	0 <b>Ω</b> 2'15	19°33	21°59	17°50	3°43	24°33	17°42	7°42	13°40	11°40	18°D34	19° 8	10° 1	5°38	S 23
S 24	20 6 25	0°59'33	3M21	23°32	18°57	4°25	24°46	17°50	7°43	13°39	11°41	18°R34	19° 5	10° 7	5°39	S 24
M25	20 10 21	1°56'51	17°25	25° 3	20° 4	5° 6	24°58	17°57	7°43	13°38	11°42	18°33	19° 2	10°14	5°40	M25
T 26	20 14 18	2°54'10	1 <b>√</b> 146	26°32	21°11	5°47	25°10	18° 5	7°44	13°37	11°44	18°31	18°59	10°21	5°41	T 26
W27	20 18 15	3°51'29	1 <u>6</u> °21	27°59	22°19	6°28	25°23	18°12	7°44	13°36	11°45	18°26	18°55	10°27	5°42	W27
T 28	20 22 11	4°48'49	1중 5	29°24	23°26	7° 9	25°35	18°20	7°45	13°35	11°46	18°18	18°52	10°34	5°43	T 28
F 29	20 26 8	5°46'09	15°52	0 <b>m</b> /47	24°34	7°50	25°47	18°27	7°45	13°34	11°47	18° 9	18°49	10°41	5°43	F 29
S 30	20 30 4	6°43'30	0≈34	2° 9	25°41	8°31	25°59	18°35	7°46	13°33	11°48	17°59	18°46	10°48	5°44	S 30
S 31	20 34 1	7 <b>Ω</b> 40'52	15 <b>≈</b> 3	3 Mp 28	26∏49	9 <b>Ⅱ</b> 11	26 <b>I</b> I11	18 <b>Ω</b> 42	7 <b>M</b> 47	13 <b>х</b> 33	11 <b>≏</b> 50	17 <b>≏</b> 48	18 <b>≏</b> 43	10 <b>Ⅱ</b> 54	5 <b>8</b> 44	S 31

Day	0	D	1	<b></b>	φ	♂		2	ł	ħ	ļ	);	ţ(	¥		Р	R	Ω	Ç	Š	
	decl	decl lat	decl	lat	decl lat	decl la	at	decl	lat	decl	lat	decl	lat	decl lat	C	decl lat	decl	decl	decl	decl	lat
F 1 S 2	23n 8 23 4		22 24n25 1 24 20					22n36 22 37	0 s27 0 27	17n15 17 13		13 s42 13 41			-	ln11 17n 4	8 s 1 1 8 7			12n53 12 53	0 s22 0 22
S 3 M 4 T 5 W 6 T 7 F 8 S 9	22 59 22 54 22 49 22 43 22 37 22 31 22 24	10 23 4 2 6 23 3 3 2 13 2 4 1n56 1 4 5 53 0 3	36 23 49 41 23 33 40 23 16	1 39 1 43 1 46 1 48 1 50	16 45 2 52 17 0 2 51 17 15 2 50 17 29 2 49	17 4 17 16 17 28 17 39 17 51	0 48 0 47 0 47 0 46 0 45	22 38 22 39 22 40 22 41 22 42 22 43 22 44	0 27 0 27 0 27 0 27 0 27 0 27	17 7 17 5 17 3	0 59 0 59 0 59 0 59 0 59	13 41 13 41	0 26 0 26 0 26 0 26 0 26	20 58 1 20 58 1 20 58 1 20 58 1 20 58 1	32 11 32 11 31 11 31 11 31 11 31 11	1 9 17 2 1 8 17 1 1 7 17 1 1 7 17 0	8 3 8 0 7 57 7 56 7 55 7 55 7 55	7 52 7 51 7 50 7 49 7 48	17 52 17 52 17 53 17 53	12 55 12 56 12 56	0 22 0 22 0 22 0 22 0 22 0 22 0 23
S 10 M11 T 12 W13 T 14 F 15 S 16	21 44 21 35	15 14 2 2 17 11 3 1 18 24 4 18 48 4 3 18 22 4 5	1 22 10 28 21 45 9 21 17 1 20 49 13 20 19 13 19 48 0 19 16	1 51 1 50 1 48 1 46 1 43	18 24 2 43 18 37 2 42 18 50 2 40 19 2 2 38 19 14 2 36	18 24 18 35 18 45 18 55 19 5	0 43 0 43 0 42 0 41 0 41	22 45 22 45 22 46 22 47 22 48 22 49 22 49	0 26 0 26 0 26 0 26 0 26	16 52 16 50 16 48	0 59 0 59 0 59 0 59 0 59	13 40 13 40 13 40 13 40 13 40 13 40 13 40	0 26 0 26 0 26 0 26 0 26	20 57 1 20 57 1 20 57 1 20 57 1 20 57 1 20 57 1	31 11 31 11 31 11 31 11 31 11 31 11 31 11	1 4 16 59 1 4 16 58 1 3 16 58 1 2 16 57 1 1 16 57	7 54 7 52 7 49 7 45 7 41	7 44 7 43 7 42 7 40 7 39	17 56 17 56	12 58 12 58 12 59 12 59 12 59	0 23 0 23 0 23 0 23 0 23 0 23 0 23
S 17 M18 T 19 W20 T 21 F 22 S 23	21 15 21 5 20 54 20 43 20 32 20 21 20 9	15 2 4 5 12 15 4 3 8 51 3 5 5 0 3 1 0 51 2 1 3 s 2 4 1	3 18 42 32 18 8	1 35 1 31 1 26 1 20 1 14 1 8	19 37 2 32 19 47 2 30 19 58 2 28 20 8 2 26 20 17 2 23 20 27 2 21	19 25 19 35 19 44 19 53 20 2 20 11	0 39 0 38 0 38 0 37 0 36 0 35	22 50 22 51 22 51 22 52 22 53 22 53 22 54	0 26 0 26 0 26 0 26 0 26 0 26	16 42	0 59 0 59 0 59 0 59 0 59 0 59	13 40 13 40 13 40 13 40 13 40 13 41 13 41	0 26 0 26 0 26 0 26 0 26 0 26	20 57 1 20 57 1 20 57 1 20 57 1 20 56 1 20 56 1	31 11 31 10 31 10 31 10 31 10 31 10			7 37 7 36 7 34 7 33	17 57 17 58 17 58 17 59 17 59 17 59	13 0 13 0 13 1 13 1 13 1	0 23 0 23 0 23 0 24 0 24 0 24 0 24
S 24 M25 T 26 W27 T 28 F 29 S 30 S 31	19 44 19 31 19 17 19 4 18 50 18 36	14 41 2 2 17 7 3 2 18 29 4 1 18 38 4 4 17 30 5 15 14 4 5	28 13 16 6 12 38	0 46 2 0 38 2 0 30 2 0 21 2 0 12 2 0 3 2	20 51 2 13 20 59 2 10 21 6 2 8 21 12 2 5 21 18 2 2 21 23 1 59	20 36 20 45 20 52 21 0 21 8 21 15	0 33 0 32 0 31 0 31 0 30 0 29	22 54 22 55 22 56 22 56 22 56 22 57 22 57 22 57	0 26 0 26 0 26 0 25 0 25 0 25	16 22 16 19 16 17	1 0 1 0 1 0 1 0 1 0 1 0		0 25 0 25 0 25 0 25 0 25 0 25 0 25	20 56 1 20 56 1 20 56 1 20 56 1 20 56 1 20 56 1	31 10 31 10 31 10 31 10 31 10 31 10	) 54 16 52 ) 53 16 52 ) 52 16 51 ) 51 16 51 ) 50 16 50 ) 50 16 50 ) 49 16 49 )n48 16n49	7 17 7 16 7 15 7 13 7 11 7 7 7 3 6s59	7 28 7 27 7 26 7 25 7 24 7 22 7 21 7 s20	18 1 18 1 18 1 18 2 18 2 18 3	13 2 13 2 13 2 13 2 13 3 13 3 13 3	0 24 0 24 0 24 0 24 0 24 0 24 0 25 0 s25

Julian Day Number = 2443325.5, Delta T = 48.03 sec Ecliptic obliquity = 23°26′23, Nutation =  $0^{\circ}00'07$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^{\circ}25'33$ , Lahiri =  $23^{\circ}32'34$ 

AUGUST 1977 00:00 UT

Auu	UJI 197	,													00.0	0 0 1
Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)∤(	并	В	v	v	Ç	ę,	Day
M 1	20 37 57	8 <b>Ω</b> 38'14	29≈12	4 Mp 45	27 <b>II</b> 57	9∏52	26耳23	18 <b>Ω</b> 50	7 <b>M</b> .48	13°R32	11 <b>≏</b> 51	17°R40	18 <b>≏</b> 40	11 <b>I</b> 1	5 <b>8</b> 45	M 1
T 2	20 41 54	9°35'37	12 <b>)</b> 56	6° 0	29° 5	10°33	26°35	18°57	7°48	13 <b>~</b> 31	11°52	17 <b>≏</b> 33	18°36	11° 8	5°45	T 2
W 3	20 45 50	10°33'02	26°15	7°13	09୍ତ13	11°13	26°47	19° 5	7°49	13°30	11°53	17°29	18°33	11°14	5°46	W 3
T 4	20 49 47	11°30'27	9Υ9	8°23	1°22	11°53	26°58	19°13	7°50	13°30	11°55	17°27	18°30	11°21	5°46	T 4
F 5	20 53 44	12°27'54	21°40	9°31	2°30	12°34	27°10	19°20	7°51	13°29	11°56	17°D27	18°27	11°28	5°46	F 5
S 6	20 57 40	13°25'22	3 <b>8</b> 54	10°37	3°39	13°14	27°22	19°28	7°52	13°28	11°58	17°27	18°24	11°34	5°46	S 6
S 7	21 137	14°22'51	15°54	11°40	4°47	13°54	27°33	19°36	7°53	13°28	11°59	17°R28	18°20	11°41	5°47	S 7
M 8	21 5 33	15°20'22	27°47	12°41	5°56	14°34	27°44	19°43	7°55	13°27	12° 1	17°27	18°17	11°48	5°47	M 8
T 9	21 9 30	16°17'54	9∏37	13°39	7° 5	15°14	27°56	19°51	7°56	13°27	12° 2	17°24	18°14	11°54	5°R47	T 9
W10	21 13 26	17°15'27	21°30	14°34	8°14	15°53	28° 7	19°59	7°57	13°26	12° 4	17°19	18°11	12° 1	5°47	W10
T 11	21 17 23	18°13'01	3929	15°26	9°24	16°33	28°18	20° 6	7°58	13°26	12° 5	17°12	18° 8	12° 8	5°47	T 11
F 12	21 21 19	19°10'37	15°37	16°15	10°33	17°13	28°29	20°14	8° 0	13°25	12° 7	17° 3	18° 5	12°15	5°46	F 12
S 13	21 25 16	20° 8'14	27°57	17° 0	11°42	17°52	28°40	20°22	8° 1	13°25	12° 8	16°52	18° 1	12°21	5°46	S 13
S 14	21 29 13	21° 5'53	10₽31	17°42	12°52	18°31	28°51	20°29	8° 2	13°24	12°10	16°42	17°58	12°28	5°46	S 14
M15	21 33 9	22° 3'33	23°18	18°20	14° 1	19°10	29° 2	20°37	8° 4	13°24	12°12	16°33	17°55	12°35	5°46	M15
T 16	21 37 6	23° 1'13	6 <b>M</b> )18	18°55	15°11	19°50	29°13	20°45	8° 6	13°24	12°13	16°25	17°52	12°41	5°45	T 16
W17	21 41 2	23°58'56	19°31	19°25	16°21	20°29	29°23	20°52	8° 7	13°23	12°15	16°20	17°49	12°48	5°45	W17
T 18	21 44 59	24°56'39	2 <b>≏</b> 55	19°51	17°31	21° 7	29°34	21° 0	8° 9	13°23	12°17	16°17	17°45	12°55	5°45	T 18
F 19	21 48 55	25°54'23	16°29	20°12	18°41	21°46	29°44	21° 8	8°10	13°23	12°18	16°D16	17°42	13° 1	5°44	F 19
S 20	21 52 52	26°52'09	0 <b>M</b> .14	20°28	19°51	22°25	29°55	21°15	8°12	13°23	12°20	16°17	17°39	13° 8	5°44	S 20
S 21	21 56 48	27°49'55	14° 9	20°40	21° 1	23° 3	0ණ 5	21°23	8°14	13°23	12°22	16°18	17°36	13°15	5°43	S 21
M22	22 0 45	28°47'43	28°12	20°46	22°11	23°42	0°15	21°31	8°16	13°22	12°24	16°R19	17°33	13°22	5°42	M22
T 23	22 4 42	29°45'32	12 <b>×</b> 24	20°R46	23°22	24°20	0°25	21°38	8°18	13°22	12°26	16°18	17°30	13°28	5°42	T 23
W24	22 8 38	0 Mp 43'22	26°43	20°41	24°32	24°58	0°35	21°46	8°20	13°22	12°28	16°15	17°26	13°35	5°41	W24
T 25	22 12 35	1°41'13	11중 4	20°30	25°43	25°36	0°45	21°54	8°22	13°22	12°29	16°11	17°23	13°42	5°40	T 25
F 26	22 16 31	2°39'06	25°25	20°13	26°54	26°14	0°54	22° 1	8°24	13°D22	12°31	16° 5	17°20	13°48	5°39	F 26
S 27	22 20 28	3°37'00	9 <b>≈</b> 41	19°50	28° 4	26°52	1° 4	22° 9	8°26	13°22	12°33	15°59	17°17	13°55	5°38	S 27
S 28	22 24 24	4°34'55	23°46	19°21	29°15	27°30	1°13	22°16	8°28	13°22	12°35	15°52	17°14	14° 2	5°37	S 28
M29	22 28 21	5°32'51	7 <b>∺</b> 35	18°47	$0\Omega 26$	28° 7	1°23	22°24	8°30	13°22	12°37	15°46	17°11	14° 8	5°36	M29
T 30	22 32 17	6°30'50	21° 5	18° 7	1°37	28°45	1°32	22°31	8°32	13°23	12°39	15°42	17° 7	14°15	5°35	T 30
W31	22 36 14	7 <b>₯</b> 28'49	<b>4Υ</b> 15	17 <b>m</b> 21	2 <b>Ω</b> 48	29∏22	19541	22 <b>N</b> 39	8 <b>M</b> .34	13 <b>×</b> 23	12 <b>≏</b> 41	15 <b>≏</b> 40	17 <b>♀</b> 4	14∏22	5 <b>8</b> 34	W31

Day	0	D	ğ	Ф	ď	4	ħ	)∤(	¥	Р	n	v t	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl decl	decl lat
M 1 T 2 W 3	18n 6 17 51 17 36	8s12 3n47 4 3 2 53 0n12 1 50	8 54 0 2	16 21n32 1s53 2 26 21 36 1 50 2 36 21 39 1 47 2	1 35 0 27	22n58 0s25 22 59 0 25 22 59 0 25	16 6 1 0	13 s43	20 56 1 30	10 46 16 48	6 s 5 6 6 5 2	7s19 18n 3 7 17 18 4 7 16 18 4	13 3 0 25
T 4 F 5 S 6	17 20 17 4 16 48	4 18 0 44 8 6 0s23 11 27 1 27		47     21     42     1     44     2       57     21     44     1     41     2       8     21     46     1     37     2	1 54 0 24		15 59 1 0	13 44 0 25		10 43 16 46	6 51 6 51 6 51	7 14 18 5	13 3 0 25 13 3 0 25 13 3 0 25
S 7 M 8 T 9 W10 T11 F 12 S 13	16 14 15 57 15 40 15 22 15 4	14 16 2 26 16 27 3 18 17 55 4 2 18 36 4 35 18 28 4 56 17 29 5 5 15 41 4 59	5 25 1 3 4 52 1 4 4 21 1 5 3 51 2 3 22 2 1		2 12 0 21 2 17 0 20 2 22 0 20 2 27 0 19 2 32 0 18	23 0 0 25 23 1 0 25	15 52 1 0 15 49 1 1 15 47 1 1 15 44 1 1 15 42 1 1	13 45 0 25 13 45 0 25 13 46 0 25 13 46 0 25 13 47 0 25	20 56 1 30 20 56 1 30 20 55 1 30	10 39 16 45 10 38 16 44 10 37 16 44 10 36 16 43	6 51 6 51 6 50 6 48 6 45 6 42 6 38	7 9 18 6 7 8 18 7 7 7 18 7 7 5 18 7	13 3 0 25 13 3 0 25 13 3 0 26 13 3 0 26 13 3 0 26 13 2 0 26 13 2 0 26
S 14 M15 T 16 W17 T 18 F 19 S 20	14 28 14 9 13 51 13 32 13 12 12 53 12 33	13 7 4 39 9 54 4 5 6 8 3 18 2 2 2 19 2s15 1 11 6 28 0n 1 10 23 1 15	2 27 2 3 2 2 2 4 1 39 2 5 1 17 3 0 58 3 2 0 40 3 3	37 21 38 1 11 2 48 21 35 1 8 2 59 21 31 1 4 2 9 21 26 1 1 2	2 41 0 16 2 45 0 15 2 49 0 14 2 53 0 13 2 56 0 12 3 0 0 11	23 1 0 25 23 2 0 25 23 2 0 25 23 2 0 24 23 2 0 24 23 2 0 24 23 2 0 24	15 37 1 1 15 35 1 1 15 33 1 1 15 30 1 1 15 28 1 1 15 25 1 1	13 48 0 25 13 48 0 25 13 49 0 25 13 49 0 25 13 50 0 25 13 51 0 25		10 32 16 42 10 31 16 41 10 30 16 41 10 29 16 40	6 34 6 30 6 27 6 25 6 24 6 24 6 24	7 2 18 8 7 1 18 9	13 1 0 27
S 21 M22 T 23 W24 T 25 F 26 S 27	11 54 11 33 11 13 10 52 10 32	18 2 4 17 18 33 4 51 17 52 5 7	0 11 4 1 0 12 4 1	57 20 54 0 44 2 5 20 46 0 40 2 12 20 37 0 37 2 19 20 27 0 33 2 24 20 17 0 30 2	3 9 0 8 3 12 0 7 3 14 0 6 3 17 0 5 3 19 0 4	23 2 0 24 23 2 0 24 23 2 0 24	15 18 1 2 15 16 1 2 15 14 1 2 15 11 1 2 15 9 1 2	13 52 0 25 13 53 0 25 13 54 0 25 13 54 0 25 13 55 0 25	20 56 1 29 20 56 1 29	10 26 16 39 10 25 16 39 10 24 16 39 10 23 16 38 10 22 16 38	6 25 6 25 6 25 6 24 6 22 6 20 6 17	6 54 18 10 6 53 18 11 6 52 18 11 6 51 18 11 6 50 18 11 6 48 18 12 6 47 18 12	13 0 0 27 13 0 0 27 12 59 0 27 12 59 0 27 12 59 0 27
S 28 M29 T 30 W31	9 50 9 29 9 7 8n46	9 45 4 4 5 45 3 12 1 33 2 10 2n38 1n 2	0 16 4 3	32	3 24 0 1 3 26 0 0		15 2 1 2 14 59 1 2	13 57 0 24 13 58 0 24	20 56 1 29 20 56 1 29 20 56 1 29 20 56 1 n29	10 19 16 37 10 18 16 37	6 15 6 12 6 11 6 s10	6 46 18 12 6 45 18 13 6 44 18 13 6 s42 18n13	12 57 0 28 12 57 0 28

 $\label{eq:Julian Day Number = 2443356.5, Delta T = 48.11 sec} \\ Ecliptic obliquity = 23°26'23, Nutation = 0°00'07, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 24°25'38, Lahiri = 23°32'38 \\$ 

SEPTEMBER 1977 00:00 UT

JLI	LINDLIN	± <i>3 , ,</i>													00.0	0 0 1
Day	Sid.t	0	)	ğ	φ	ð	4	ħ	)ţ(	并	В	S.	v	Ç	ķ	Day
T 1	22 40 11	8 TD 26'51	17 <b>Υ</b> 4	16°R32	4 <b>Q</b> 0	29∏59	1950	22 <b>Ω</b> 46	8 <b>M</b> .37	13 <b>×</b> <sup>7</sup> 23	12 <b>≏</b> 43	15°D39	17 <b>♀</b> 1	14∏29	5°R33	T 1
F 2	22 44 7	9°24'54	29°33	15 <b>m</b> 39	5°11	0937	1°59	22°54	8°39	13°23	12°45	15 <b>≏</b> 40	16°58	14°35	5 <b>8</b> 31	F 2
S 3	22 48 4	10°23'00	11 <b>8</b> 47	14°43	6°22	1°14	2° 8	23° 1	8°41	13°23	12°47	15°42	16°55	14°42	5°30	S 3
S 4	22 52 0	11°21'07	23°49	13°45	7°34	1°50	2°16	23° 9	8°44	13°24	12°49	15°43	16°51	14°49	5°29	S 4
M 5	22 55 57	12°19'16	5 <b>Ⅱ</b> 43	12°47	8°45	2°27	2°25	23°16	8°46	13°24	12°51	15°45	16°48	14°55	5°27	M 5
T 6	22 59 53	13°17'27	17°35	11°49	9°57	3° 4	2°33	23°24	8°49	13°24	12°53	15°R45	16°45	15° 2	5°26	T 6
W 7	23 3 50	14°15'41	29°29	10°54	11° 9	3°40	2°41	23°31	8°51	13°25	12°56	15°43	16°42	15° 9	5°25	W 7
T 8	23 7 46	15°13'56	119930	10° 1	12°21	4°16	2°49	23°38	8°54	13°25	12°58	15°41	16°39	15°15	5°23	T 8
F 9	23 11 43	16°12'13	23°42	9°14	13°33	4°52	2°57	23°46	8°56	13°26	13° 0	15°37	16°36	15°22	5°21	F 9
S 10	23 15 39	17°10'32	6 <b>N</b> 8	8°31	14°45	5°28	3° 5	23°53	8°59	13°26	13° 2	15°33	16°32	15°29	5°20	S 10
S 11	23 19 36	18° 8'54	18°51	7°56	15°57	6° 4	3°13	24° 0	9° 1	13°27	13° 4	15°28	16°29	15°36	5°18	S 11
M12	23 23 33	19° 7'17	1 <b>m</b> 53	7°29	17° 9	6°40	3°21	24° 7	9° 4	13°27	13° 6	15°24	16°26	15°42	5°16	M12
T 13	23 27 29	20° 5'42	15°12	7° 9	18°21	7°15	3°28	24°15	9° 7	13°28	13° 9	15°21	16°23	15°49	5°15	T 13
W14	23 31 26	21° 4'08	28°47	6°59	19°33	7°51	3°35	24°22	9°10	13°28	13°11	15°19	16°20	15°56	5°13	W14
T 15	23 35 22	22° 2'37	12 <b>≏</b> 37	6°D58	20°46	8°26	3°42	24°29	9°13	13°29	13°13	15°D18	16°17	16° 2	5°11	T 15
F 16	23 39 19	23° 1'08	26°37	7° 6	21°58	9° 1	3°49	24°36	9°15	13°30	13°15	15°18	16°13	16° 9	5° 9	F 16
S 17	23 43 15	23°59'40	10 <b>M</b> .46	7°23	23°11	9°36	3°56	24°43	9°18	13°30	13°18	15°19	16°10	16°16	5° 7	S 17
S 18	23 47 12	24°58'14	24°59	7°50	24°23	10°11	4° 3	24°50	9°21	13°31	13°20	15°21	16° 7	16°22	5° 5	S 18
M19	23 51 8	25°56'49	9 <b>∡</b> 13	8°26	25°36	10°45	4° 9	24°57	9°24	13°32	13°22	15°22	16° 4	16°29	5° 3	M19
T 20	23 55 5	26°55'27	23°27	9°11	26°49	11°20	4°16	25° 4	9°27	13°33	13°24	15°R22	16° 1	16°36	5° 1	T 20
W21	23 59 2	27°54'05	7 <b>云</b> 38	10° 4	28° 1	11°54	4°22	25°11	9°30	13°34	13°27	15°22	15°57	16°43	4°59	W21
T 22	0 2 58	28°52'46	21°43	11° 4	29°14	12°28	4°28	25°18	9°33	13°34	13°29	15°21	15°54	16°49	4°57	T 22
F 23	0 6 55	29°51'28	5≈41	12°11	0 <b>m</b> 27	13° 2	4°34	25°25	9°36	13°35	13°31	15°20	15°51	16°56	4°55	F 23
S 24	0 10 51	0 <b>≏</b> 50'12	19°30	13°25	1°40	13°35	4°40	25°31	9°39	13°36	13°33	15°18	15°48	17° 3	4°52	S 24
S 25	0 14 48	1°48'57	3 <b>∺</b> 6	14°45	2°53	14° 9	4°45	25°38	9°42	13°37	13°36	15°16	15°45	17° 9	4°50	S 25
M26	0 18 44	2°47'45	16°30	16° 9	4° 6	14°42	4°51	25°45	9°46	13°38	13°38	15°14	15°42	17°16	4°48	M26
T 27	0 22 41	3°46'34	29°38	17°38	5°19	15°15	4°56	25°51	9°49	13°39	13°40	15°13	15°38	17°23	4°46	T 27
W28	0 26 37	4°45'25	12 <b>Y</b> 31	19°11	6°33	15°48	5° 1	25°58	9°52	13°40	13°43	15°D13	15°35	17°29	4°43	W28
T 29	0 30 34	5°44'19	25° 9	20°47	7°46	16°21	5° 6	26° 4	9°55	13°41	13°45	15°13	15°32	17°36	4°41	T 29
F 30	0 34 30	6 <b>₽</b> 43'14	7 <b>8</b> 32	22 Mp 26	8 <b>m</b> 59	16954	59510	$26\Omega 11$	9 <b>M</b> .59	13 <b>х</b> 43	13 <b>≏</b> 47	15 <b>≏</b> 14	15 <b>≏</b> 29	17 <b>Ⅱ</b> 43	4 <b>8</b> 38	F 30

Day	0	D	ğ	Q	♂ <sup>1</sup>	4	ħ	)Å(	并	Р	ก	Ω	Ç	Ş.
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl	decl	decl lat
T 1 F 2 S 3	8n24 8 2 7 40	6n35 0s 8 10 9 1 15 13 11 2 18	1n14 4s25 1 40 4 19 2 9 4 11	9 18 52 0 7	23 29 0 3	23n 2 0s24 23 2 0 24 23 2 0 24	14 52 1 3	13 s59 0n24 14 0 0 24 14 1 0 24	20 56 1 29	10 15 16 36	6 10	6 40	18 14	12n56 0s28 12 55 0 28 12 55 0 28
S 4 M 5 T 6 W 7 T 8	7 18 6 56 6 34 6 12 5 49	17 19 4 0 18 17 4 36	3 13 3 50 3 47 3 37 4 22 3 22	0 18 7 0n 3 7 17 51 0 6 2 17 35 0 9	23 31 0 5 23 31 0 6 23 32 0 7 23 32 0 9 23 32 0 10	23 1 0 24 23 1 0 24	14 45 1 3 14 43 1 3 14 41 1 3	14 2 0 24 14 3 0 24 14 4 0 24	20 57 1 28 20 57 1 28	10 12 16 35 10 11 16 35 10 10 16 35	6 12 6 12 6 11	6 36	18 15 18 15 18 15	
F 9 S 10	5 27 5 4	16 16 5 10	5 31 2 48 6 4 2 29	8 17 0 0 16	23 32 0 11	23 1 0 24		14 6 0 24		10 8 16 34	6 9	6 31	18 16	
S 11 M12 T 13 W14 T 15 F 16 S 17	4 41 4 18 3 55 3 32 3 9 2 46 2 23	0s53 1 30 5 13 0 15 9 18 1n 2	6 35 2 10 7 3 1 51 7 28 1 31 7 50 1 12 8 9 0 53 8 23 0 34 8 33 0 16	1 16 5 0 24 1 15 46 0 27 2 15 26 0 30 3 15 6 0 33 4 14 45 0 36		23 0 0 23 23 0 0 23	14 29 1 4 14 27 1 4 14 24 1 4 14 22 1 4 14 20 1 4	14 8 0 24 14 9 0 24 14 10 0 24 14 11 0 24 14 12 0 24	20 58 1 28 20 58 1 28 20 58 1 28	10 5 16 34 10 4 16 33 10 3 16 33 10 2 16 33 10 1 16 33	6 4 6 3 6 2 6 1 6 2	6 28 1 6 26 1 6 25 1 6 24 1	18 16 18 17 18 17 18 17 18 17	12 50 0 29 12 49 0 29 12 49 0 29 12 48 0 29 12 47 0 29 12 47 0 29 12 46 0 29
S 18 M19 T 20 W21 T 22 F 23 S 24	2 0 1 37 1 13 0 50 0 27 0 3 0 s20	17 38 4 15 18 24 4 53 18 1 5 13 16 31 5 14	8 38	5 13 40 0 44 1 13 18 0 46 4 12 55 0 49 7 12 32 0 51 8 12 9 0 54	23 23 0 23 23 21 0 24 23 19 0 25 23 18 0 26 23 16 0 28	23 0 0 23 22 59 0 23	14 13 1 5 14 11 1 5 14 9 1 5 14 7 1 5 14 4 1 5	14 15 0 24 14 16 0 24 14 17 0 24 14 18 0 24 14 19 0 24	20 59 1 28 20 59 1 28 20 59 1 28	9 59 16 33 9 58 16 32 9 57 16 32 9 56 16 32 9 55 16 32 9 54 16 32 9 53 16 32	6 3 6 3 6 3 6 3 6 2	6 19 1 6 18 1 6 17 1	18 18 18 18 18 18 18 19 18 19	
S 25 M26 T 27 W28 T 29 F 30	0 43 1 7 1 30 1 53 2 17 2 s40	7 4 3 32 2 59 2 32 1n10 1 25 5 11 0 15 8 53 0s55 12n 7 2s 1	7 20 1 26 6 54 1 33 6 25 1 39 5 53 1 44 5 18 1 48 4n42 1n51	3 10 56 1 0 9 10 32 1 2 4 10 7 1 4 8 9 41 1 6	23 9 0 31 23 7 0 33 23 4 0 34 23 1 0 35		13 58 1 6 13 56 1 6 13 54 1 6 13 52 1 6	14 22 0 24 14 23 0 24 14 24 0 24 14 25 0 24	21 0 1 27 21 0 1 27	9 52 16 32 9 51 16 32 9 50 16 32 9 49 16 31 9 48 16 31 9n47 16n31	6 0 6 0 6 0 6 0	6 9 1	18 19 18 20 18 20 18 20	12 39 0 30 12 38 0 30 12 37 0 31 12 36 0 31

Julian Day Number = 2443387.5, Delta T = 48.20 sec Ecliptic obliquity =  $23^{\circ}26'23$ , Nutation =  $0^{\circ}00'06$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^{\circ}25'42$ , Lahiri =  $23^{\circ}32'42$ 

OCTOBER 1977 00:00 UT

00.0	DEN 13														00.0	0 0 1
Day	Sid.t	0	D	ğ	φ	ð	4	ħ	)∤(	并	В	ß	Ω	Ç	ķ	Day
S 1	0 38 27	7 <b>≏</b> 42'12	19842	24 Mp 7	10 <b>m</b> 13	179526	59915	26 <b>Ω</b> 17	10 <b>M</b> 2	13 <b>×7</b> 44	13 <b>≏</b> 50	15 <b>≙</b> 14	15 <b>≏</b> 26	17 <b>Ⅱ</b> 50	4°R36	S 1
S 2	0 42 24	8°41'11	1 <b>Д</b> 43	25°50	11°26	17°58	5°19	26°24	10° 5	13°45	13°52	15°15	15°22	17°56	4 <b>8</b> 34	S 2
M 3	0 46 20	9°40'14	13°37	27°34	12°40	18°30	5°24	26°30	10° 9	13°46	13°54	15°16	15°19	18° 3	4°31	M 3
T 4	0 50 17	10°39'18	25°29	29°19	13°53	19° 2	5°28	26°36	10°12	13°47	13°57	15°16	15°16	18°10	4°28	T 4
W 5 T 6	0 54 13 0 58 10	11°38'25 12°37'34	7 <b>©</b> 22 19°22	1 <u><b>Ω</b></u> 5 2°51	15° 7 16°21	19°34 20° 5	5°31 5°35	26°43 26°49	10°15 10°19	13°49 13°50	13°59 14° 2	15°R16 15°16	15°13 15°10	18°16 18°23	4°26 4°23	W 5 T 6
T 6 F 7	1 2 6	12°37'34 13°36'45	1833	4°38	16°21	20°36	5°39	26°49 26°55	10°19 10°22	13°51	14° 2	15°16	15° 7	18°23	4°23	F 7
S 8	1 6 3	14°35'58	14° 0	6°24	18°48	21° 7	5°42	27° 1	10°26	13°52	14° 6	15°16	15° 3	18°37	4°18	S 8
S 9	1 9 59	15°35'14	26°46	8°11	20° 2	21°38	5°45	27° 7	10°29	13°54	14° 9	15°D16	15° 0	18°43	4°15	S 9
M10	1 13 56	16°34'32	9 <b>m</b> 54	9°57	21°16	22° 8	5°48	27°13	10°33	13°55	14°11	15°16	14°57	18°50	4°13	M10
T 11	1 17 53	17°33'52	23°24	11°43	22°30	22°38	5°51	27°19	10°36	13°57	14°13	15°16	14°54	18°57	4°10	T 11
W12 T 13	1 21 49 1 25 46	18°33'15 19°32'39	7 <b>Ω</b> 17 21°29	13°28 15°13	23°44 24°58	23° 8 23°38	5°53 5°56	27°24 27°30	10°40 10°43	13°58 14° 0	14°16 14°18	15°17 15°R17	14°51 14°48	19° 3 19°10	4° 7 4° 5	W12 T 13
F 14	1 29 42	20°32'06	5 <b>M</b> .57	16°58	26°12	24° 8	5°58	27°36	10°43	14° 1	14°20	15°16	14°44	19°17	4° 2	F 14
S 15	1 33 39	21°31'34	20°33	18°42	27°27	24°37	6° 0	27°41	10°50	14° 3	14°23	15°16	14°41	19°24	3°59	S 15
S 16	1 37 35	22°31'05	5 <b>₹</b> 13	20°25	28°41	25° 6	6° 1	27°47	10°54	14° 4	14°25	15°15	14°38	19°30	3°56	S 16
M17	1 41 32	23°30'37	19°50	22° 8	29°55	25°34	6° 3	27°52	10°58	14° 6	14°27	15°14	14°35	19°37	3°54	M17
T 18	1 45 28	24°30'11	4정18	23°50	1 € 9	26° 3	6° 4	27°58 28° 3	11° 1	14° 7	14°30	15°13	14°32	19°44	3°51	T 18
W19 T 20	1 49 25 1 53 22	25°29'47 26°29'25	18°33 2 <b>≈</b> 33	25°31 27°12	2°24 3°38	26°31 26°59	6° 6 6° 7	28° 3	11° 5 11° 8	14° 9 14°11	14°32 14°34	15°13 15°D13	14°28 14°25	19°50 19°57	3°48 3°45	W19 T 20
F 21	1 57 18	20°29'04	16°17	28°52	4°52	20°26	6° 7	28°13	11°12	14°12	14°37	15°13	14°22	20° 4	3°42	F 21
S 22	2 1 15	28°28'44	29°45	0M31	6° 7	27°54	6° 8	28°18	11°16	14°14	14°39	15°14	14°19	20°10	3°39	S 22
S 23	2 5 11	29°28'27	12 <b>)</b> 58	2°10	7°21	28°21	6° 8	28°23	11°20	14°16	14°41	15°16	14°16	20°17	3°37	S 23
M24	2 9 8	OML28'11	25°57	3°49	8°36	28°47	6°R 8	28°28	11°23	14°17	14°44	15°17	14°13	20°24	3°34	M24
T 25	2 13 4	1°27'57	8 <b>Υ</b> 43	5°27	9°50	29°14	6° 8	28°33	11°27	14°19	14°46	15°17	14° 9	20°31	3°31	T 25
W26 T 27	2 17 1 2 20 57	2°27'45 3°27'35	21°17 3 <b>8</b> 39	7° 4 8°40	11° 5 12°20	29°40 0 <b>Ω</b> 5	6° 8 6° 8	28°38 28°42	11°31 11°34	14°21 14°23	14°48 14°51	15°R17 15°16	14° 6 14° 3	20°37 20°44	3°28 3°25	W26 T 27
F 28	2 24 54	4°27'27	15°52	10°16	13°34	0°31	6° 7	28°47	11°38	14°25	14°53	15°15	14° 0	20°51	3°22	F 28
S 29	2 28 51	5°27'21	27°56	11°52	14°49	0°56	6° 6	28°51	11°42	14°26	14°55	15°12	13°57	20°57	3°19	S 29
S 30	2 32 47	6°27'16	9∏54	13°27	16° 4	1°21	6° 5	28°56	11°46	14°28	14°57	15° 8	13°53	21° 4	3°17	S 30
M31	2 36 44	7 <b>M</b> 27'14	21 <b>II</b> 46	15 <b>M</b> 2	17 <b>≏</b> 19	1 <b>Ω</b> 45	69	29 <b>Ω</b> 0	11 <b>M</b> .49	14 <b>×</b> 30	14 <b>≏</b> 59	15 <b>♀</b> 4	13 <b>≏</b> 50	21 <b>I</b> I11	3 <b>8</b> 14	M31

Day	0	D	ğ	ç	2	37	2	ł	ħ	2	)į	<del>j</del> (	卉	В	n	Ω	Ç	Š	
	decl	decl lat	decl la	nt decl	lat decl	lat	decl	lat	decl	lat	decl	lat	decl lat	decl lat	decl	decl	decl	decl	lat
S 1	3 s 3	14n46 3s 0	4n 4	1n53 8n49	1n10 22n56	0n38	22n58	0 s23	13n48	1n 6	14 s27	0n24	21 s 0 1n2	9n46 16n31	6s 0	6s 4	18n20	12n34	0 s31
S 2	3 27	16 45 3 50	3 24	1 54 8 23	1 12 22 53	0 39	22 57	0 23	13 46	1 7	14 28	0 24	21 1 1 2	9 45 16 31	6 0	6 3	18 20	12 33	0 31
M 3	3 50	17 58 4 30	2 43	1 54 7 57	1 14 22 50	0 41	22 57	0 22	13 44	1 7	14 29	0 24	21 1 1 2	9 45 16 31	6 1	6 2	18 21	12 32	0 31
T 4	4 13	18 23 4 59		1 54 7 30	1 16 22 47		22 57	0 22	-	1 7		0 24	21 1 1 2	9 44 16 31	6 1	6 1	18 21		0 31
W 5	4 36			1 52 7 3	1 17 22 44		22 57	0 22		1 7	_	0 24				6 0			0 31
T 6	4 59			1 50 6 36	1 19 22 41		22 57	0 22			_	0 24				5 58	-		0 31
F 7	5 22	-		1 48 6 8	1 20 22 37		22 57	0 22			14 33	-					18 21		0 31
S 8	5 45	12 11 4 38	0 56	1 45 5 41	1 22 22 34	0 48	22 57	0 22	13 34	1 7	14 35	0 24	21 2 1 2	7 9 40 16 31	6 1	5 56	18 22	12 28	0 31
S 9	6 8	8 52 3 58	1 42	1 41 5 13	1 23 22 31	0 49	22 57	0 22	13 32	1 8	14 36	0 24	21 2 1 2	9 39 16 31	6 1	5 55	18 22	12 27	0 32
M10	6 31	5 1 3 4	2 27	1 37 4 45	1 24 22 27	0 51	22 57	0 22	13 30	1 8	14 37	0 24	21 2 1 2	9 38 16 31	6 1	5 53	18 22	12 26	0 32
T 11	6 54	0 48 1 58	3 12	1 33 4 17	1 25 22 24	0 52	22 57	0 22	13 28	1 8	14 38	0 23	21 2 1 2	9 38 16 31	6 1	5 52	18 22	12 25	0 32
W12	7 16	3 s34 0 44	3 58	1 28 3 49	1 26 22 20	0 54	22 57	0 22	13 26	1 8	14 39	0 23	21 3 1 2	9 37 16 31	6 1	5 51	18 22	12 24	0 32
T 13	7 39	7 51 0n34	4 43	1 23 3 20	1 27 22 17	0 55	22 56	0 22	13 25	1 8	14 40	0 23	21 3 1 2	9 36 16 31	6 1	5 50	18 22	12 23	0 32
F 14	8 1	11 44 1 52	5 28	1 18 2 52	1 28 22 13	0 57	22 56	0 22	13 23	1 8	14 41	0 23	21 3 1 2	9 35 16 32	6 1	5 49	18 22	12 22	0 32
S 15	8 24	14 56 3 4	6 12	1 12 2 23	1 29 22 9	0 58	22 56	0 22	13 21	1 9	14 42	0 23	21 3 1 2	9 34 16 32	6 1	5 47	18 23	12 21	0 32
S 16	8 46	17 11 4 3	6 57	1 7 1 54	1 30 22 6	1 0	22 56	0 22	13 19	1 9	14 44	0 23	21 4 1 2	9 34 16 32	6 0	5 46	18 23	12 20	0 32
M17	9 8	18 17 4 46	7 41	1 1 1 25	1 31 22 2	1 1	22 56	0 22	13 18	1 9	14 45	0 23	21 4 1 2	9 33 16 32	6 0	5 45	18 23	12 19	0 32
T 18	9 30	18 11 5 11	8 24 (	0 55 0 56	1 32 21 58	1 3	22 56	0 22	13 16	1 9	14 46	0 23	21 4 1 2	9 32 16 32	6 0		18 23		0 32
W19	9 52	16 56 5 16	9 7 (	0 48 0 27	1 32 21 54		22 56	0 22		1 9	14 47	0 23	21 4 1 2	9 31 16 32	6 0		18 23		0 32
T 20	10 13	14 41 5 3	9 49 (	0 42 0s 2	1 33 21 51		22 56	0 22	13 13	1 10	14 48	0 23	21 4 1 2	9 30 16 32	6 0	5 41	18 23	12 15	0 33
F 21	10 35	11 38 4 32		0 35 0 31	1 33 21 47		22 56	0 22			14 49					5 40		12 14	0 33
S 22	10 56	8 2 3 46	11 12 (	0 29 1 0	1 33 21 43	1 9	22 56	0 21	13 9	1 10	14 50	0 23	21 5 1 2	9 29 16 32	6 0	5 39	18 23	12 13	0 33
S 23	11 17	4 5 2 49	11 53 (	0 22 1 29	1 34 21 39	1 11	22 56	0 21	13 8	1 10	14 52	0 23	21 5 1 2	9 28 16 33	6 1	5 37	18 24	12 12	0 33
M24	11 38	0 0 1 45	12 33 (	0 15 1 58	1 34 21 35	1 13	22 56	0 21	13 6	1 10	14 53	0 23	21 5 1 2	9 27 16 33	6 1	5 36	18 24	12 11	0 33
T 25	11 59	4n 1 0 36	13 12 (	0 9 2 27	1 34 21 32	1 14	22 57	0 21	13 5	1 10	14 54	0 23	21 6 1 2	9 27 16 33	6 1	5 35	18 24	12 10	0 33
W26	12 20	7 47 0s33	13 50 (	0 2 2 56	1 34 21 28	1 16	22 57	0 21	13 3	1 11	14 55	0 23	21 6 1 2	9 26 16 33	6 1	5 34	18 24	12 9	0 33
T 27	12 40	11 10 1 40	14 28 (	0s 5 3 26	1 34 21 24	1 18	22 57	0 21	13 2	1 11	14 56	0 23	21 6 1 2	9 25 16 33	6 1	5 33			0 33
F 28	13 0			0 12 3 55	1 34 21 20		22 57	0 21	13 0	1 11							18 24		0 33
S 29	13 20	16 14 3 34	15 41 (	0 18 4 24	1 34 21 17	1 21	22 57	0 21	12 59	1 11	14 58	0 23	21 7 1 2	9 24 16 34	5 59	5 30	18 24	12 6	0 33
S 30	13 40	17 42 4 17	16 17 (	0 25 4 53	1 34 21 13	1 23	22 57	0 21	12 58	1 11	15 0	0 23	21 7 1 2	9 23 16 34	5 58	5 29	18 24	12 5	0 33
M31	14s 0	18n23 4s49	16s51 (	0 s32 5 s21	1n34 21n 9	1n25	22n57	0 s21	12n56	1n12	15 s 1	0n23	21 s 7 1n2	9n23 16n34	5 s 5 6	5 s28	18n24	12n 4	0 s33

Julian Day Number = 2443417.5, Delta T = 48.28 sec Ecliptic obliquity =  $23^{\circ}26'23$ , Nutation =  $0^{\circ}00'04$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^{\circ}25'46$ , Lahiri =  $23^{\circ}32'47$ 

NOVEMBER 1977 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)Å(	¥	Р	n	Ω	Ç	ę,	Day
T 1	2 40 40	8ML27'14	3937	16M36	18 <b>≏</b> 33	2 <b>N</b> 9	6°R 3	29Ω 4	11 <b>M</b> .53	14 <b>×</b> 32	15 <b>♀</b> 2	15°R 1	13 <b>≙</b> 47	21 <b>I</b> I18	3°R11	T 1
W 2	2 44 37	9°27'16	15°30	18°10	19°48	2°33	6 <b>9</b> 1	29° 9	11°57	14°34	15° 4	14₽58	13°44	21°24	3 <b>8</b> 8	W 2
T 3	2 48 33	10°27'21	27°28	19°43	21° 3	2°56	5°59	29°13	12° 1	14°36	15° 6	14°56	13°41	21°31	3° 5	T 3
F 4	2 52 30	11°27'27	9 <b>Ω</b> 36	21°16	22°18	3°19	5°57	29°17	12° 4	14°38	15° 8	14°D55	13°38	21°38	3° 2	F 4
S 5	2 56 26	12°27'35	21°58	22°48	23°33	3°42	5°55	29°21	12° 8	14°40	15°10	14°55	13°34	21°44	3° 0	S 5
S 6	3 0 23	13°27'46	4 <b>m</b> /39	24°21	24°48	4° 4	5°53	29°24	12°12	14°42	15°13	14°57	13°31	21°51	2°57	S 6
M 7	3 4 20	14°27'58	17°43	25°52	26° 3	4°25	5°50	29°28	12°16	14°44	15°15	14°58	13°28	21°58	2°54	M 7
T 8	3 8 16	15°28'12	1 <b>≏</b> 14	27°24	27°18	4°47	5°47	29°32	12°19	14°46	15°17	15° 0	13°25	22° 5	2°51	T 8
W 9	3 12 13	16°28'29	15°11	28°55	28°33	5° 8	5°44	29°35	12°23	14°48	15°19	15°R 0	13°22	22°11	2°48	W 9
T 10	3 16 9	17°28'47	29°35	0 <b>∡</b> 125	29°48	5°28	5°41	29°39	12°27	14°50	15°21	15° 0	13°19	22°18	2°46	T 10
F 11	3 20 6	18°29'08	14 <b>M</b> 20	1°55	1 <b>m</b> 3	5°48	5°38	29°42	12°31	14°52	15°23	14°57	13°15	22°25	2°43	F 11
S 12	3 24 2	19°29'30	29°20	3°25	2°18	6° 8	5°34	29°45	12°34	14°54	15°25	14°53	13°12	22°31	2°40	S 12
S 13	3 27 59	20°29'53	14 <b>×</b> 26	4°55	3°33	6°27	5°30	29°48	12°38	14°56	15°27	14°48	13° 9	22°38	2°37	S 13
M14	3 31 55	21°30'19	29°29	6°24	4°48	6°45	5°26	29°51	12°42	14°58	15°29	14°42	13° 6	22°45	2°35	M14
T 15	3 35 52	22°30'45	14 <b>궁</b> 18	7°52	6° 4	7° 4	5°22	29°54	12°45	15° 0	15°31	14°37	13° 3	22°52	2°32	T 15
W16	3 39 49	23°31'13	28°49	9°20	7°19	7°21	5°18	29°57	12°49	15° 3	15°33	14°33	12°59	22°58	2°30	W16
T 17	3 43 45	24°31'43	12≈56	10°48	8°34	7°38	5°13	29°59	12°53	15° 5	15°35	14°31	12°56	23° 5	2°27	T 17
F 18	3 47 42	25°32'13	26°39	12°15	9°49	7°55	5° 9	0 Mp 2	12°57	15° 7	15°37	14°D30	12°53	23°12	2°24	F 18
S 19	3 51 38	26°32'45	9 <b>∺</b> 59	13°42	11° 4	8°11	5° 4	0° 5	13° 0	15° 9	15°39	14°31	12°50	23°18	2°22	S 19
S 20	3 55 35	27°33'18	22°58	15° 8	12°20	8°27	4°59	0° 7	13° 4	15°11	15°41	14°33	12°47	23°25	2°19	S 20
M21	3 59 31	28°33'52	5 <b>Υ</b> 41	16°33	13°35	8°42	4°54	0°10	13° 8	15°13	15°43	14°34	12°44	23°32	2°17	M21
T 22	4 3 28	29°34'27	18° 9	17°57	14°50	8°56	4°48	0°12	13°11	15°15	15°45	14°R34	12°40	23°39	2°14	T 22
W23	4 7 24	0 <b>∡</b> ³35′04	0826	19°21	16° 5	9°10	4°43	0°14	13°15	15°18	15°46	14°33	12°37	23°45	2°12	W23
T 24	4 11 21	1°35'42	12°34	20°44	17°21	9°24	4°37	0°16	13°19	15°20	15°48	14°29	12°34	23°52	2° 9	T 24
F 25	4 15 18	2°36'21	24°37	22° 5	18°36	9°37	4°31	0°18	13°22	15°22	15°50	14°23	12°31	23°59	2° 7	F 25
S 26	4 19 14	3°37'02	6 <b>Ⅱ</b> 34	23°25	19°51	9°49	4°25	0°19	13°26	15°24	15°52	14°15	12°28	24° 5	2° 5	S 26
S 27	4 23 11	4°37'44	18°28	24°44	21° 7	10° 0	4°19	0°21	13°29	15°27	15°53	14° 5	12°25	24°12	2° 2	S 27
M28	4 27 7	5°38'27	0920	26° 2	22°22	10°11	4°13	0°23	13°33	15°29	15°55	13°54	12°21	24°19	2° 0	M28
T 29	4 31 4	6°39'12	12°12	27°17	23°37	10°22	4° 7	0°24	13°36	15°31	15°57	13°44	12°18	24°26	1°58	T 29
W30	4 35 0	7 <b>.₹</b> 39'58	2499 5	28 <b>×</b> 30	24ML53	10 <b>Ω</b> 31	499 0	0 <b>m</b> 26	13 <b>M</b> .40	15 <b>∡</b> ³33	15 <b>≏</b> 59	13 <b>≏</b> 35	12 <b>₽</b> 15	24∏32	1 <b>8</b> 56	W30

Day	0	D		ğ		P	)	С	7	2	4	ħ	<u></u>	)	ł(	4		Р	ß	v	Ç	ď	5
	decl	decl lat	de	ecl la	.t	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	decl	decl	decl	decl	lat
T 1	14 s19	18n16 5	s 8 17s	s25 (	0s38	5 s 5 0	1n33	21n 5	1n27	22n57	0 s21	12n55	1n12	15 s 2	0n23	21s 7	1n26	9n22 16n34	5 s55	5 s26	18n24	12n 3	0 s34
W 2	14 39	17 20 5	14 17		0 45	6 19	1 33			22 57			1 12		0 23	21 8	1 26	9 22 16 35	5 54	5 25			0 34
T 3	14 57	15 39 5	7 18		0 51	6 47		20 58		22 58			1 12	-			1 26	9 21 16 35			18 25		0 34
F 4	15 16	-	46 19		0 58	7 16	1 32			22 58				-			1 26	9 20 16 35		5 23			0 34
S 5	15 35	10 14 4	11 19	30	1 4	7 44	1 31	20 51	1 34	22 58	0 21	12 50	1 13	15 7	0 23	21 8	1 26	9 20 16 35	5 53	5 21	18 25	11 59	0 34
S 6	15 53	6 39 3	23 19	59	1 10	8 12	1 30	20 48	1 36	22 58	0 21	12 49	1 13	15 8	0 23	21 9	1 26	9 19 16 36	5 53		18 25		0 34
M 7	16 11	2 39 2	24 20	28	1 16	8 40	1 30	20 45	1 38	22 58	0 20	12 48	1 13	15 9	0 23	21 9	1 26	9 19 16 36	5 54	5 19	18 25	11 57	0 34
T 8	16 28	1 s38 1	15 20	55	1 22	9 8	1 29			22 58		12 47		15 10			1 26	9 18 16 36	5 55		18 25		0 34
W 9	16 46		n 1 21		1 28	9 35	1 28			22 59		12 46		15 11			1 26	9 18 16 36			18 25		0 34
T 10	17 3		19 21			10 3		20 35		22 59		12 45		15 12		21 10		9 17 16 37			18 25		0 34
F 11	17 20	-	33 22			10 30		20 32		22 59		12 44		15 13		21 10		9 17 16 37			18 25		0 34
S 12	17 36	16 27 3	38 22	33	1 44	10 57	1 25	20 29	1 48	22 59	0 20	12 43	1 14	15 15	0 23	21 10	1 25	9 16 16 37	5 52	5 13	18 25	11 52	0 34
S 13	17 52	18 5 4	28 22	54	1 49	11 23	1 24	20 26	1 50	23 0	0 20	12 42	1 14	15 16	0 23	21 10	1 25	9 16 16 38	5 50	5 12	18 25	11 51	0 34
M14	18 8	18 26 5	0 23	15	1 54	11 50	1 23	20 24	1 52	23 0	0 20	12 41	1 14	15 17	0 23	21 11	1 25	9 15 16 38	5 48	5 10	18 25	11 50	0 34
T 15	18 24	17 31 5	11 23	34	1 59	12 16	1 21	20 21	1 55	23 0	0 20	12 40	1 15	15 18	0 23	21 11	1 25	9 15 16 38	5 46	5 9	18 25	11 49	0 35
W16	18 39	15 29 5	1 23	53	2 3	12 41	1 20	20 19	1 57	23 0	0 20	12 39	1 15	15 19	0 23	21 11	1 25	9 15 16 39	5 44	5 8	18 25	11 48	0 35
T 17		12 33 4	34 24	10	2 7	13 7		20 16	1 59	23 1	0 20	12 39		15 20	0 23	21 11	1 25	9 14 16 39	5 43	5 7	18 25	11 47	0 35
F 18	19 9	9 1 3	51 24	25	2 11	13 32	1 17	20 14	2 1	23 1	0 20	12 38	1 15	15 21	0 23	21 12	1 25	9 14 16 39	5 43		18 25		0 35
S 19	19 23	5 6 2	57 24	40	2 14	13 57	1 16	20 12	2 3	23 1	0 19	12 37	1 16	15 22	0 23	21 12	1 25	9 13 16 40	5 43	5 4	18 26	11 45	0 35
S 20	19 37	1 2 1	54 <mark>24</mark>	53	2 17	14 21	1 14	20 10	2 5	23 1	0 19	12 37	1 16	15 24	0 23	21 12	1 25	9 13 16 40	5 44	5 3	18 26	11 44	0 35
M21	19 50	2n59 0	48 25	5	2 20	14 46	1 13	20 8	2 8	23 2	0 19	12 36	1 16	15 25	0 23	21 12	1 25	9 13 16 41	5 44	5 2	18 26	11 43	0 35
T 22	20 4	6 49 0	s19 25	16	2 23	15 9	1 11	20 7	2 10	23 2	0 19	12 35	1 16	15 26	0 23	21 13	1 25	9 12 16 41	5 45	5 0		11 42	0 35
W23	20 16	10 18 1	25 <b>25</b>	25	2 25	15 33	1 9	20 5	2 12	23 2	0 19	12 35	1 16	15 27	0 23	21 13	1 25	9 12 16 41	5 44	4 59	18 26	11 41	0 35
T 24	20 29	13 18 2	25 <mark>25</mark>	33	2 26	15 56		20 4	2 15			12 34	1 17	15 28	0 23	21 13	1 25	9 12 16 42	5 43		18 26		0 35
F 25	-		19 25		-	16 18		20 3	2 17			12 34		15 29		21 13	1 25	9 11 16 42			18 26		0 35
S 26	20 53	17 25 4	3 25	45	2 28	16 40	1 4	20 2	2 19	23 3	0 19	12 34	1 17	15 30	0 23	21 14	1 25	9 11 16 43	5 37	4 55	18 26	11 39	0 35
S 27	21 4	18 21 4	36 25	48	2 28	17 2	1 2	20 1	2 22	23 3	0 19	12 33	1 17	15 31	0 23	21 14	1 25	9 11 16 43	5 33	4 54	18 26	11 38	0 35
M28	21 15	18 29 4	57 <b>25</b>	51	2 28	17 23	1 0	20 0	2 24	23 4	0 19	12 33	1 18	15 32	0 23	21 14	1 25	9 11 16 43	5 29	4 53	18 26	11 37	0 35
T 29	21 25	17 49 5	5 25	52	2 27	17 44	0 58	20 0	2 26	23 4	0 18	12 33	1 18	15 33	0 23	21 14	1 25	9 10 16 44	5 25	4 52	18 26	11 36	0 35
W30	21 s35	16n22 5	s 0 25 s	s51	2 s25	18s 5	0n56	19n59	2n29	23n 4	0s18	12n32	1n18	15 s34	0n23	21 s15	1n25	9n10 16n44	5 s22	4 s 5 0	18n26	11n35	0 s35

Julian Day Number = 2443448.5, Delta T = 48.37 sec Ecliptic obliquity =  $23^{\circ}26'23$ , Nutation =  $0^{\circ}00'03$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^{\circ}25'50$ , Lahiri =  $23^{\circ}32'51$ 

DECEMBER 1977 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)∤(	¥	Р	ß	Ω	ţ	ę,	Day
T 1	4 38 57	8 <b>₮</b> 40'46	6 <b>Ω</b> 4	29 <b>х</b> 41	26M 8	10 <b>Ω</b> 41	3°R53	0 <b>m</b> 27	13 <b>M</b> .43	15 <b>∡</b> ³36	16 <b>♀</b> 0	13°R28	12 <b>≏</b> 12	24∏39	1°R53	T 1
F 2	4 42 53	9°41'35	18°10	0 <b>궁</b> 49	27°23	10°49	39547	0°28	13°47	15°38	16° 2	13 <b>≏</b> 23	12° 9	24°46	1 <b>8</b> 51	F 2
S 3	4 46 50	10°42'25	0 <b>m</b> 28	1°53	28°39	10°57	3°40	0°29	13°50	15°40	16° 3	13°20	12° 5	24°52	1°49	S 3
S 4	4 50 47	11°43'17	13° 3	2°54	29°54	11° 4	3°33	0°30	13°54	15°42	16° 5	13°D19	12° 2	24°59	1°47	S 4
M 5	4 54 43	12°44'10	25°59	3°50	1 <b>√</b> 10	11°10	3°26	0°31	13°57	15°45	16° 6	13°20	11°59	25° 6	1°45	M 5
T 6	4 58 40	13°45'04	9 <b>≏</b> 21	4°42	2°25	11°16	3°18	0°31	14° 1	15°47	16° 8	13°R21	11°56	25°13	1°43	T 6
W 7	5 2 36	14°46'00	23°10	5°28	3°41	11°20	3°11	0°32	14° 4	15°49	16° 9	13°20	11°53	25°19	1°41	W 7
T 8	5 6 33	15°46'57	7 <b>M</b> 29	6° 8	4°56	11°25	3° 4	0°32	14° 7	15°51	16°11	13°18	11°50	25°26	1°39	T 8
F 9	5 10 29	16°47'55	22°15	6°40	6°12	11°28	2°56	0°33	14°11	15°54	16°12	13°13	11°46	25°33	1°38	F 9
S 10	5 14 26	17°48'55	7 <b>.₹</b> 22	7° 5	7°27	11°31	2°48	0°33	14°14	15°56	16°14	13° 5	11°43	25°39	1°36	S 10
S 11	5 18 22	18°49'55	22°41	7°21	8°42	11°32	2°41	0°33	14°17	15°58	16°15	12°56	11°40	25°46	1°34	S 11
M12	5 22 19	19°50'56	8 <b>ට</b> 1	7°R27	9°58	11°33	2°33	0°R33	14°21	16° 0	16°16	12°45	11°37	25°53	1°32	M12
T 13	5 26 16	20°51'58	23°10	7°23	11°13	11°R34	2°25	0°33	14°24	16° 3	16°18	12°35	11°34	26° 0	1°31	T 13
W14	5 30 12	21°53'01	7 <b>≈</b> 59	7° 7	12°29	11°33	2°17	0°33	14°27	16° 5	16°19	12°27	11°31	26° 6	1°29	W14
T 15	5 34 9	22°54'03	22°20	6°40	13°44	11°32	2° 9	0°32	14°30	16° 7	16°20	12°21	11°27	26°13	1°28	T 15
F 16	5 38 5	23°55'07	6 <b>∺</b> 13	6° 1	15° 0	11°30	2° 1	0°32	14°33	16° 9	16°21	12°17	11°24	26°20	1°26	F 16
S 17	5 42 2	24°56'10	19°36	5°12	16°15	11°27	1°53	0°31	14°36	16°12	16°22	12°D16	11°21	26°27	1°25	S 17
S 18	5 45 58	25°57'15	2 <b>Y</b> 34	4°11	17°31	11°23	1°45	0°31	14°39	16°14	16°24	12°16	11°18	26°33	1°23	S 18
M19	5 49 55	26°58'19	15°11	3° 2	18°46	11°18	1°37	0°30	14°42	16°16	16°25	12°R16	11°15	26°40	1°22	M19
T 20	5 53 51	27°59'24	27°31	1°46	20° 2	11°13	1°29	0°29	14°45	16°18	16°26	12°15	11°11	26°47	1°21	T 20
W21	5 57 48	29° 0'29	9 <b>8</b> 38	0°25	21°17	11° 6	1°21	0°28	14°48	16°21	16°27	12°12	11° 8	26°53	1°19	W21
T 22	6 1 45	0る 1'34	21°38	29 <b>×</b> <sup>7</sup> 2	22°33	10°59	1°13	0°27	14°51	16°23	16°28	12° 6	11° 5	27° 0	1°18	T 22
F 23	6 5 41	1° 2'39	3 <b>Ⅱ</b> 32	27°41	23°48	10°51	1° 5	0°26	14°54	16°25	16°29	11°57	11° 2	27° 7	1°17	F 23
S 24	6 9 38	2° 3'45	15°25	26°22	25° 4	10°42	0°56	0°24	14°57	16°27	16°30	11°45	10°59	27°14	1°16	S 24
S 25	6 13 34	3° 4'52	27°17	25°10	26°19	10°33	0°48	0°23	15° 0	16°29	16°31	11°31	10°56	27°20	1°15	S 25
M26	6 17 31	4° 5'58	99510	24° 5	27°35	10°22	0°40	0°21	15° 3	16°32	16°31	11°16	10°52	27°27	1°14	M26
T 27	6 21 27	5° 7'05	21° 5	23°10	28°50	10°11	0°32	0°20	15° 5	16°34	16°32	11° 1	10°49	27°34	1°13	T 27
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Julian Day Number = 2443478.5, Delta T = 48.45 sec Ecliptic obliquity =  $23^{\circ}26'22$ , Nutation =  $0^{\circ}00'03$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^{\circ}25'55$ , Lahiri =  $23^{\circ}32'55$