

Astrodienst Ephemeris Tables for the year 1877

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 1877 00:00 UT

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Day	Sid.t	0	D	ğ	φ	♂	4	ħ)∤(并	В	S.	Ω	Ç	ę ,	Day
M 1	6 42 59	10 3 44'49	269512	26 궁 15	10 ∡ 7 7	21 M 5	18 ∡ 759	4¥ 6	24°R16	2°R33	22°R50	12°R31	13 米 58	28 궁 42	25°R38	M 1
T 2	6 46 56	11°45'58	11 N 22	27°47	11°21	21°44	19°12	4°11	24Ω14	2 8 32	22850	12) 24	13°55	28°49	25 Y 38	T 2
W 3	6 50 53	12°47'07	26°15	29°18	12°36	22°24	19°25	4°17	24°12	2°32	22°49	12°21	13°52	28°56	25°38	W 3
T 4	6 54 49	13°48'16	10 m /45	0≈47	13°50	23° 3	19°38	4°22	24°11	2°32	22°48	12°D20	13°49	29° 2	25°38	T 4
F 5	6 58 46	14°49'25	24°51	2°15	15° 5	23°42	19°51	4°28	24° 9	2°31	22°48	12°20	13°46	29° 9	25°D38	F 5
S 6	7 2 42	15°50'34	8 亞 30	3°40	16°19	24°21	20° 4	4°33	24° 7	2°31	22°47	12°21	13°42	29°16	25°38	S 6
S 7	7 639	16°51'44	21°46	5° 2	17°33	25° 0	20°17	4°39	24° 5	2°31	22°46	12°R21	13°39	29°23	25°38	S 7
M 8	7 10 35	17°52'53	4M42	6°21	18°48	25°39	20°30	4°45	24° 3	2°31	22°46	12°20	13°36	29°29	25°38	M 8
T 9	7 14 32	18°54'03	17°20	7°36	20° 2	26°18	20°43	4°50	24° 1	2°31	22°45	12°16	13°33	29°36	25°38	T 9
W10	7 18 28	19°55'12	29°44	8°47	21°17	26°57	20°55	4°56	23°59	2°30	22°45	12°10	13°30	29°43	25°38	W10
T 11	7 22 25	20°56'21	11 ~ 58	9°53	22°31	27°37	21° 8	5° 2	23°57	2°30	22°44	12° 1	13°26	29°49	25°39	T 11
F 12	7 26 22	21°57'31	24° 3	10°52	23°46	28°16	21°21	5° 8	23°55	2°D30	22°44	11°51	13°23	29°56	25°39	F 12
S 13	7 30 18	22°58'40	6 ප 1	11°45	25° 0	28°55	21°33	5°14	23°53	2°30	22°43	11°41	13°20	0≈ 3	25°39	S 13
S 14	7 34 15	23°59'48	17°55	12°30	26°15	29°34	21°46	5°20	23°51	2°30	22°43	11°31	13°17	0° 9	25°40	S 14
M15	7 38 11	25° 0'56	29°46	13° 7	27°30	0 х 13	21°58	5°26	23°49	2°30	22°42	11°23	13°14	0°16	25°41	M15
T 16	7 42 8	26° 2'03	11 ≈ 34	13°34	28°44	0°53	22°11	5°33	23°46	2°31	22°42	11°17	13°11	0°23	25°41	T 16
W17	7 46 4	27° 3'10	23°23	13°51	29°59	1°32	22°23	5°39	23°44	2°31	22°41	11°13	13° 7	0°29	25°42	W17
T 18	7 50 1	28° 4'16	5 ₩ 15	13°R57	1 궁 13	2°11	22°35	5°45	23°42	2°31	22°41	11°11	13° 4	0°36	25°43	T 18
F 19	7 53 57	29° 5'21	17°12	13°52	2°28	2°50	22°48	5°51	23°40	2°31	22°41	11°D11	13° 1	0°43	25°43	F 19
S 20	7 57 54	0≈ 6'26	29°19	13°35	3°43	3°29	23° 0	5°58	23°37	2°31	22°40	11°12	12°58	0°49	25°44	S 20
S 21	8 1 51	1° 7'29	11 Y 38	13° 7	4°57	4° 8	23°12	6° 4	23°35	2°32	22°40	11°14	12°55	0°56	25°45	S 21
M22	8 5 47	2° 8'31	24°16	12°27	6°12	4°48	23°24	6°11	23°32	2°32	22°40	11°15	12°52	1° 3	25°46	M22
T 23	8 9 44	3° 9'32	7 8 15	11°38	7°26	5°27	23°36	6°17	23°30	2°32	22°39	11°R15	12°48	1° 9	25°47	T 23
W24	8 13 40	4°10'33	20°41	10°39	8°41	6° 6	23°48	6°24	23°28	2°33	22°39	11°14	12°45	1°16	25°48	W24
T 25	8 17 37	5°11'32	4 Ⅱ 34	9°33	9°56	6°45	24° 0	6°30	23°25	2°33	22°39	11°11	12°42	1°23	25°49	T 25
F 26	8 21 33	6°12'30	18°56	8°22	11°10	7°24	24°11	6°37	23°23	2°34	22°38	11° 6	12°39	1°30	25°50	F 26
S 27	8 25 30	7°13'27	39544	7° 7	12°25	8° 4	24°23	6°44	23°20	2°34	22°38	11° 1	12°36	1°36	25°52	S 27
S 28	8 29 26	8°14'22	18°50	5°52	13°40	8°43	24°35	6°51	23°18	2°35	22°38	10°56	12°32	1°43	25°53	S 28
M29	8 33 23	9°15'17	4 N 6	4°38	14°54	9°22	24°46	6°57	23°15	2°35	22°38	10°52	12°29	1°50	25°54	M29
T 30	8 37 20	10°16'10	19°22	3°28	1 <u>6°</u> 9	10° 1	24°58	7° 4	23°13	2°36	22°38	10°49	12°26	1°56	25°56	T 30
W31	8 41 16	11≈17'03	4 Mp 27	2≈22	17 云 24	10 ×7 40	25 × 9	7 ∺ 11	23 Ω 10	2 8 36	22 8 38	10°D48	12 米 23	2≈ 3	25 ℃ 57	W31

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M 1 T 2	23 s 1	-	-	22 s52		20 s38		17 s27		22 s33				14n 9			1 s48	4n34 14 s22			24s 1	9n56	0n 1
W 3	22 56 22 51			22 30 22 6	1 50	20 51 21 3		17 38 17 48		22 34 22 35	0 27	11 34 11 32		14 10 14 10		10 41 10 41	1 48 1 48	4 34 14 22 4 34 14 21	6 55		23 59 23 57	9 55 9 55	$\begin{array}{ccc} 0 & 1 \\ 0 & 0 \end{array}$
T 4	22 44		-	21 42	1 44	-		17 59		22 36	0 27			14 11	0 45		1 47	4 35 14 21	6 56		23 55	9 55	0 0
F 5	22 38	1 2	1 s 7	21 16	1 38	21 25	1 12			22 37	0 27	11 28	1 42	14 12			1 47	4 35 14 21	6 56	6 24	23 53	9 55	0 0
S 6	22 31	5 s 2 7	2 15	20 49	1 31	21 36	1 10	18 19	0 34	22 38	0 27	11 25	1 42	14 12	0 45	10 40	1 47	4 35 14 21	6 56	6 25	23 51	9 55	0 0
S 7	22 24	11 30	3 15	20 21	1 22	21 45	1 7	18 29	0 34	22 39	0 27	11 23	1 42	14 13	0 45	10 40	1 47	4 35 14 20	6 56	6 26	23 49	9 55	0 0
M 8	22 16		-	19 53		21 54	-	18 39		22 40	0 27			14 14			1 47	4 35 14 20			23 47	9 55	0 0
T 9				19 24	1 3	-		18 49		22 41	0 27			14 14			1 47	4 35 14 20			23 45	9 55	0 s 0
				18 55	0 52			18 58		22 42	-	11 17		14 15			1 47	4 35 14 20			23 43	9 55	0 0
T 11			-	18 26		22 18	0 57			22 43	0 27	-				10 41	1 47	4 35 14 19			23 41	9 55	0 0
F 12 S 13	21 40			17 57 17 29		22 24 22 30		19 17 19 26		22 44 22 45	0 27	11 12 11 10		14 16 14 17		10 41 10 41	1 47 1 47	4 36 14 19			23 3923 36	9 55 9 55	$\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$
S 14			4 7			22 35		19 35		22 45	0 27			14 18		10 41	1 47	4 36 14 18			23 34	9 55	0 0
M15 T 16	21 9		-	16 36 16 12		22 39 22 43		19 44 19 53		22 46 22 47	0 27 0 27	11 5 11 3	1 41 1 41				1 47 1 47	4 36 14 18 4 36 14 18			23 3223 30	9 55 9 56	0 1
W17	20 37			15 50		22 43		20 2		22 47	0 27		1 41			10 41	1 47	4 36 14 18			23 28	9 56	0 1
T 18	20 34			15 31	1 11	- 1		20 10		22 48	0 27		1 41	14 21	0 45		1 47	4 37 14 17			23 26	9 56	0 1
F 19	20 21	4 33	0n33	15 15	1 29	22 50		20 18		22 49	0 27		1 41		0 46		1 47	4 37 14 17			23 24	9 56	0 1
S 20	20 9	1n13	1 37	15 3	1 47	22 51	0 33	20 26	0 26	22 50	0 26	10 54	1 41	14 22	0 46	10 41	1 47	4 37 14 17	7 22	6 42	23 22	9 56	0 1
S 21	19 55	7 2	2 38	14 53	2 5	22 52	0 30	20 34	0 25	22 51	0 26	10 51	1 41	14 23	0 46	10 42	1 46	4 37 14 16	7 22	6 43	23 20	9 57	0 1
M22	19 42	12 43	3 33	14 48	2 23	22 51	0 27	20 42	0 25	22 51	0 26	10 49	1 41	14 24	0 46	10 42	1 46	4 38 14 16	7 21	6 44	23 17	9 57	0 1
T 23	19 28			14 46		22 50	0 25			22 52		10 46					1 46	4 38 14 16			23 15	9 57	0 1
W24				14 47		22 49	0 22			22 52		10 44		14 26			1 46	4 38 14 15			23 13	9 58	0 1
T 25	18 59			14 52	3 7	-		21 5		22 53		10 41		14 26			1 46	4 38 14 15			23 11	9 58	0 1
F 26 S 27	18 44			15 0		22 43		21 12		22 54		10 39		14 27	0 46		1 46	4 38 14 15		6 49		9 58 9 59	0 1
	18 29			15 10		22 39		21 19		22 54		10 36		14 28		10 43	1 46	4 39 14 14		6 50			
S 28	-			15 23		22 35		21 26		22 55		10 34		14 29		10 43	1 46	4 39 14 14		6 52		9 59	0 2
M29	17 57			15 37		22 29		21 33		22 55		10 31		14 30			1 46	4 39 14 14		6 53		9 59	0 2
T 30 W31				15 52		22 24		21 39		22 56	-	10 29		14 31		10 43	1 46	4 40 14 14		6 54			0 2
W31	1 / S24	10n25	Un35	16s 8	3n3/	22 s17	un 3	21 s46	Un 18	22 s56	Un26	10s26	1 S40	14n31	Un46	10n44	1 s46	4n40 14s13	7 s31	0833	22 s58	10n 0	0s 2

Julian Day Number = 2406620.5, Delta T = -2.04 sec Ecliptic obliquity = $23^{\circ}27'27$, Nutation = $0^{\circ}00'05$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $23^{\circ}01'22$, Lahiri = $22^{\circ}08'22$

00:00 UT FEBRUARY 1877

Day	Sid.t	0	D	ğ	φ	♂	4	ħ)∤(¥	Р	ß	Ω	Ç	Ŷ,	Day
T 1	8 45 13	12≈17'54	19 m)13	1°R22	18 궁 38	11 × 120	25 × ⁷ 20	7) (18	23°R 8	2 8 37	22°R38	10)(48	12) 20	2≈10	25 Υ 59	T 1
F 2	8 49 9	13°18'44	3 ≏ 34	0≈30	19°53	11°59	25°31	7°25	23 N 5	2°38	22 8 37	10°49	12°17	2°16	26° 0	F 2
S 3	8 53 6	14°19'34	17°27	29 궁 46	21° 8	12°38	25°43	7°32	23° 2	2°38	22°37	10°50	12°13	2°23	26° 2	S 3
S 4	8 57 2	15°20'22	0 M 53	29°10	22°23	13°17	25°54	7°39	23° 0	2°39	22°37	10°52	12°10	2°30	26° 4	S 4
M 5	9 0 59	16°21'10	13°54	28°42	23°37	13°57	26° 5	7°46	22°57	2°40	22°D37	10°R53	12° 7	2°36	26° 5	M 5
T 6	9 4 55	17°21'57	26°33	28°23	24°52	14°36	26°15	7°53	22°55	2°41	22°37	10°52	12° 4	2°43	26° 7	T 6
W 7	9 8 52	18°22'43	8 ∡ 755	28°12	26° 7	15°15	26°26	8° 0	22°52	2°42	22°37	10°51	12° 1	2°50	26° 9	W 7
T 8	9 12 49	19°23'28	21° 3	28°D 9	27°21	15°54	26°37	8° 7	22°49	2°43	22°37	10°48	11°58	2°56	26°11	T 8
F 9	9 16 45	20°24'11	3중 2	28°12	28°36	16°33	26°48	8°14	22°47	2°44	22°38	10°45	11°54	3° 3	26°13	F 9
S 10	9 20 42	21°24'54	14°54	28°23	29°51	17°13	26°58	8°21	22°44	2°44	22°38	10°42	11°51	3°10	26°15	S 10
S 11	9 24 38	22°25'35	26°44	28°40	1≈ 6	17°52	27° 8	8°28	22°42	2°45	22°38	10°39	11°48	3°16	26°17	S 11
M12	9 28 35	23°26'15	8≈32	29° 3	2°20	18°31	27°19	8°35	22°39	2°47	22°38	10°36	11°45	3°23	26°19	M12
T 13	9 32 31	24°26'54	20°23	29°32	3°35	19°10	27°29	8°42	22°36	2°48	22°38	10°34	11°42	3°30	26°21	T 13
W14	9 36 28	25°27'31	2) 17	0≈ 5	4°50	19°49	27°39	8°50	22°34	2°49	22°38	10°33	11°38	3°36	26°23	W14
T 15	9 40 24	26°28'06	14°17	0°43	6° 4	20°29	27°49	8°57	22°31	2°50	22°38	10°D33	11°35	3°43	26°26	T 15
F 16	9 44 21	27°28'40	26°24	1°25	7°19	21° 8	27°59	9° 4	22°28	2°51	22°39	10°33	11°32	3°50	26°28	F 16
S 17	9 48 18	28°29'12	8 Ƴ 41	2°12	8°34	21°47	28° 9	9°11	22°26	2°52	22°39	10°34	11°29	3°56	26°30	S 17
S 18	9 52 14	29°29'43	21°10	3° 2	9°49	22°26	28°18	9°19	22°23	2°53	22°39	10°35	11°26	4° 3	26°33	S 18
M19	9 56 11	0) 30'11	3 8 54	3°55	11° 3	23° 5	28°28	9°26	22°21	2°55	22°39	10°36	11°23	4°10	26°35	M19
T 20	10 0 7	1°30'38	16°56	4°51	12°18	23°45	28°37	9°33	22°18	2°56	22°40	10°37	11°19	4°16	26°37	T 20
W21	10 4 4	2°31'03	0 Ⅱ 17	5°50	13°33	24°24	28°47	9°40	22°15	2°57	22°40	10°R37	11°16	4°23	26°40	W21
T 22	10 8 0	3°31'26	14° 1	6°52	14°47	25° 3	28°56	9°48	22°13	2°58	22°40	10°37	11°13	4°30	26°43	T 22
F 23	10 11 57	4°31'47	28° 7	7°56	16° 2	25°42	29° 5	9°55	22°10	3° 0	22°41	10°37	11°10	4°36	26°45	F 23
S 24	10 15 53	5°32'06	12935	9° 3	17°17	26°21	29°14	10° 2	22° 8	3° 1	22°41	10°36	11° 7	4°43	26°48	S 24
S 25	10 19 50	6°32'23	27°20	10°11	18°31	27° 0	29°23	10°10	22° 5	3° 3	22°42	10°36	11° 4	4°50	26°50	S 25
M26	10 23 47	7°32'38	12 Ω 18	11°22	19°46	27°39	29°31	10°17	22° 3	3° 4	22°42	10°35	11° 0	4°56	26°53	M26
T 27	10 27 43	8°32'51	27°20	12°35	21° 1	28°18	29°40	10°24	22° 0	3° 5	22°43	10°35	10°57	5° 3	26°56	T 27
W28	10 31 40	9 ∺ 33'02	12 m 18	13 ≈ 49	22≈15	28 × ⁷ 58	29 ∡ 148	10) €32	21 £ 58	3 8 7	22843	10°D35	10 ¥ 54	5≈10	26 Y 59	W28

Day	0	Ď	Š	3	ρ	C	3	2	ļ.	ħ	1) إ	(4		Р	n	v	Ç	Š	
	decl	decl lat	decl	lat d	ecl lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	decl	decl	decl	decl	lat
T 1	17 s 7	3n34 0s4	46 16 s24	3n33 22		21 s52		22 s57	0n26	10s24	1 s40	14n32	0n46	10n44	1 s46	4n40 14s13	7 s31		22 s56	-	0 s 2
F 2	16 50		2 16 40			21 58		22 57		10 21		14 33	0 46		1 46	4 40 14 13			22 54		0 2
S 3	16 33	9 45 3	8 16 56	3 21 21	53 0 6	22 4	0 16	22 57	0 26	10 18	1 40	14 34	0 46	10 45	1 46	4 41 14 12	7 30	6 59	22 51	10 2	0 2
S 4			1 17 11	0 10 21		22 9		22 58		10 16		14 35		10 45	1 46	4 41 14 12			22 49	-	0 2
M 5		-	41 17 26	-	-	22 15		22 58		10 13		14 36		10 45	1 46	4 41 14 12			22 47	-	0 2
T 6		-	5 17 40	-		22 20		22 59		10 10		14 37		10 46	1 46	4 42 14 11	7 30		22 45	-	0 2
T 8			15 17 52 10 18 4			22 25 22 30		22 59 22 59	0 26 0 26			14 38 14 38		10 46 10 46	1 45 1 45	4 42 14 11 4 42 14 11	7 30 7 31		22 43 22 40		$\begin{array}{ccc} 0 & 2 \\ 0 & 2 \end{array}$
F 9	-		51 18 15			22 35		22 59	0 26			14 39		10 40	1 45	4 43 14 10			22 38		0 2
S 10			21 18 25			22 40			0 26	-		14 40		10 47	1 45	4 43 14 10			22 36		0 3
S 11	14 3	24 24 3 3	39 18 33	1 56 20	21 0 26	22 44	0 10	23 0	0 26	9 57	1 40	14 41	0 46	10 47	1 45	4 43 14 10	7 35	7 9	22 34	10 7	0 3
M12	-		48 18 40			22 49		23 0	0 26	9 54		14 42		10 48	1 45	4 44 14 9			22 31		0 3
T 13	13 23	16 26 1 4	49 18 46	1 32 19	52 0 31	22 53	0 8	23 1	0 26	9 52	1 40	14 43	0 46	10 48	1 45	4 44 14 9	7 37	7 11	22 29	10 8	0 3
W14	13 3	11 23 0 4	46 18 51	1 20 19		22 57	0 7	23 1	0 25	9 49	1 40	14 44	0 46	10 49	1 45	4 44 14 9	7 37		22 27		0 3
T 15	12 42			1 8 19				23 1	0 25	9 46		14 44	0 46		1 45	4 45 14 8			22 25		0 3
F 16	12 21	0 6 1 2				_		23 1	0 25	9 44		14 45		10 50	1 45	4 45 14 8			22 22	-	0 3
S 17	12 1		30 18 57					23 1	0 25	9 41		14 46		10 50	1 45	4 45 14 8			22 20		0 3
			27 18 57			23 11	-	23 1	0 25	9 38		14 47		10 50	1 45	4 46 14 7	, 50		22 18	-	0 3
M19 T 20			15 18 55 51 18 52			23 14 23 17		23 2 23 2	0 25 0 25	9 35 9 33	1 41	14 48 14 49		10 51 10 51	1 45	4 46 14 7 4 47 14 7	7 36 7 35		22 15 22 13		0 3
W21	10 37		12 18 47			23 17	0 2	23 2	0 25	9 33	1 41	_		10 51	1 45 1 45	4 47 14 7			22 13		0 3
T 22			17 18 42			23 19		23 2	0 25	9 27				10 52	1 45	4 47 14 6			22 11	-	0 3
F 23			3 18 35			23 24		23 2	0 25	9 25				10 53	1 45	4 48 14 6		7 23		10 16	0 4
S 24	9 29	27 20 4 3	30 18 26	0 27 16	33 0 55	23 26	0 2	23 2	0 25	9 22	1 41	14 52	0 46	10 53	1 45	4 48 14 6	7 36	7 24	22 4	10 17	0 4
S 25	9 7	24 16 3 3	38 18 16	0 35 16	11 0 57	23 28	0 3	23 2	0 25	9 19	1 41	14 53	0 46	10 54	1 44	4 49 14 5	7 36	7 25	22 2	10 18	0 4
M26	8 45	19 32 2 3	31 18 5	0 44 15	50 0 59	23 30	0 4	23 2	0 25	9 16	1 41	14 54	0 46	10 54	1 44	4 49 14 5	7 36	7 27	21 59	10 19	0 4
T 27	8 22	13 33 1	13 17 53		-	23 32		23 2	0 25	9 14	1 41	14 54		10 55	1 44	4 49 14 5	7 36		21 57	-	0 4
W28	8s 0	6n48 0s	10 17 s 39	1s 0 15	s 5 1s 3	23 s33	0s 6	23 s 2	0n25	9s11	1 s41	14n55	0n46	10n56	1 s44	4n50 14s 4	7 s36	7 s29	21 s55	10n21	0 s 4

Julian Day Number = 2406651.5, Delta T = -2.08 sec Ecliptic obliquity = $23^{\circ}27'28$, Nutation = $0^{\circ}00'07$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $23^{\circ}01'26$, Lahiri = $22^{\circ}08'26$

MARCH 1877 00:00 UT

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Day	Sid.t	0	D	ğ	Ş	ď	4	ħ)∤(¥	В	S.	Ω	Ç	ę,	Day
T 1	10 35 36	10) (33'12	27 m) 4	15≈ 5	23≈30	29 × 37	29 × 757	10 ∺ 39	21°R55	3 8 8	22844	10°R35	10 ∺ 51	5≈16	27 Υ 2	T 1
F 2	10 39 33	11°33'19	11 ≏ 30	16°23	24°45	0 궁 16	0중 5	10°46	21 Q 53	3°10	22°44	10) €35	10°48	5°23	27° 4	F 2
S 3	10 43 29	12°33'25	25°32	17°42	25°59	0°55	0°13	10°54	21°50	3°12	22°45	10°35	10°44	5°30	27° 7	S 3
S 4	10 47 26	13°33'30	9 M 8	19° 3	27°14	1°34	0°21	11° 1	21°48	3°13	22°45	10°35	10°41	5°36	27°10	S 4
M 5	10 51 22	14°33'33	22°18	20°25	28°29	2°13	0°29	11° 8	21°46	3°15	22°46	10°34	10°38	5°43	27°13	M 5
T 6	10 55 19	15°33'34	5 ₹ 4	21°49	29°43	2°52	0°37	11°16	21°43	3°16	22°46	10°34	10°35	5°50	27°16	T 6
W 7	10 59 16	16°33'33	17°29	23°14	0 ∺ 58	3°31	0°44	11°23	21°41	3°18	22°47	10°D34	10°32	5°56	27°19	W 7
T 8	11 3 12	17°33'31	29°39	24°41	2°12	4°10	0°52	11°30	21°39	3°20	22°48	10°34	10°29	6° 3	27°22	T 8
F 9	11 7 9	18°33'28	11 る 36	26° 9	3°27	4°49	0°59	11°38	21°36	3°21	22°48	10°35	10°25	6°10	27°25	F 9
S 10	11 11 5	19°33'22	23°27	27°38	4°42	5°28	1° 6	11°45	21°34	3°23	22°49	10°36	10°22	6°16	27°29	S 10
S 11	11 15 2	20°33'15	5≈15	29° 8	5°56	6° 7	1°13	11°52	21°32	3°25	22°50	10°37	10°19	6°23	27°32	S 11
M12	11 18 58	21°33'06	17° 4	0) (40	7°11	6°46	1°20	12° 0	21°30	3°27	22°50	10°38	10°16	6°30	27°35	M12
T 13	11 22 55	22°32'55	28°58	2°12	8°25	7°25	1°27	12° 7	21°28	3°28	22°51	10°38	10°13	6°37	27°38	T 13
W14	11 26 51	23°32'43	11) 0	3°46	9°40	8° 4	1°33	12°14	21°25	3°30	22°52	10°R39	10° 9	6°43	27°42	W14
T 15	11 30 48	24°32'28	23°11	5°22	10°55	8°43	1°39	12°21	21°23	3°32	22°53	10°38	10° 6	6°50	27°45	T 15
F 16	11 34 45	25°32'11	5 Ƴ 33	6°58	12° 9	9°22	1°46	12°29	21°21	3°34	22°53	10°37	10° 3	6°57	27°48	F 16
S 17	11 38 41	26°31'53	18° 7	8°36	13°24	10° 1	1°52	12°36	21°19	3°36	22°54	10°35	10° 0	7° 3	27°52	S 17
S 18	11 42 38	27°31'32	0 8 55	10°15	14°38	10°40	1°58	12°43	21°17	3°38	22°55	10°33	9°57	7°10	27°55	S 18
M19	11 46 34	28°31'09	13°56	11°55	15°53	11°18	2° 3	12°50	21°15	3°40	22°56	10°30	9°54	7°17	27°58	M19
T 20	11 50 31	29°30'44	27°11	13°37	17° 7	11°57	2° 9	12°57	21°13	3°42	22°57	10°28	9°50	7°23	28° 2	T 20
W21	11 54 27	0 Υ 30'16	10 Ⅱ 41	15°20	18°22	12°36	2°15	13° 5	21°12	3°44	22°58	10°26	9°47	7°30	28° 5	W21
T 22	11 58 24	1°29'47	24°25	17° 4	19°36	13°15	2°20	13°12	21°10	3°45	22°59	10°25	9°44	7°37	28° 9	T 22
F 23	12 2 20	2°29'15	8923	18°49	20°51	13°53	2°25	13°19	21° 8	3°47	22°59	10°D25	9°41	7°43	28°12	F 23
S 24	12 6 17	3°28'40	22°35	20°36	22° 5	14°32	2°30	13°26	21° 6	3°49	23° 0	10°26	9°38	7°50	28°16	S 24
S 25	12 10 14	4°28'04	6Ω 58	22°24	23°20	15°11	2°35	13°33	21° 4	3°51	23° 1	10°27	9°35	7°57	28°19	S 25
M26	12 14 10	5°27'25	21°30	24°13	24°34	15°50	2°39	13°40	21° 3	3°54	23° 2	10°28	9°31	8° 3	28°23	M26
T 27	12 18 7	6°26'43	6MD 6	26° 4	25°48	16°28	2°44	13°47	21° 1	3°56	23° 3	10°R29	9°28	8°10	28°26	T 27
W28	12 22 3	7°25'59	20°42	27°56	27° 3	17° 7	2°48	13°54	21° 0	3°58	23° 4	10°29	9°25	8°17	28°30	W28
T 29	12 26 0	8°25'13	5 ≏ 11	29°49	28°17	17°45	2°52	14° 1	20°58	4° 0	23° 5	10°27	9°22	8°23	28°34	T 29
F 30	12 29 56	9°24'25	19°26	1 Υ 44	29°32	1 <u>8</u> °24	<u>2°56</u>	14° 8	20°57	4° 2	23° 6	10°24	9°19	8°30	28°37	F 30
S 31	12 33 53	10 Y 23'36	3 M 24	3 Υ40	0 Υ 46	19る 2	3 る 0	14) 14	20 \Omega 55	48 4	23 8 7	10 ∺ 20	9 米 15	8 ≈ 36	28 Ƴ 41	S 31

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S 4 M 5 T 6 W 7 T 8	6 5 5 42 5 19 4 55	23 13 5 2 26 20 5 16 28 6 5 15 28 28 5 0	15 26 1 4: 15 2 1 50	4 13 7 1 11 23 37 0 12 42 1 12 23 38 5 12 17 1 13 23 38 0 11 51 1 15 23 38	0 10 0 11 0 12 0 13 0 14	23 3 0 25 23 3 0 25 23 3 0 25 23 3 0 25	9 0 1 41 8 57 1 41 8 54 1 41 8 52 1 41 8 49 1 41	14 59 0 46 15 0 0 46 15 1 0 46 15 1 0 46	10 58 1 44 10 59 1 44 11 0 1 44 11 0 1 44	4 51 14 3 4 52 14 3 4 52 14 2 4 53 14 2 4 53 14 2	7 36 7 37 7 37 7 37	7 34 21 45 7 35 21 43 7 36 21 40 7 38 21 38 7 39 21 36	10 25 0 4 10 26 0 4 10 28 0 4 10 29 0 5
F 9 S 10	4 8	25 15 3 53	14 36 1 54 14 10 1 53	8 11 0 1 17 23 37	0 15 0 16	23 2 0 25	8 46 1 41 8 43 1 41	15 3 0 46	11 1 1 44 11 1 44	4 54 14 2 4 54 14 1	7 36	7 40 21 33 7 41 21 31	10 31 0 5
S 11 M12 T 13 W14 T 15 F 16 S 17	3 45 3 21 2 58 2 34 2 10 1 47 1 23	17 45 2 7 12 51 1 4 7 25 0n 2 1 39 1 9 4n15 2 14	13 12 2 3 12 42 2 3 12 10 2 1	4 8 17 1 23 23 31	0 22	23 2 0 25 23 2 0 25	8 41 1 41 8 38 1 42 8 35 1 42 8 33 1 42 8 30 1 42 8 27 1 42 8 24 1 42	15 4 0 46 15 5 0 46 15 6 0 46 15 6 0 46 15 7 0 46	11 3 1 44 11 3 1 44 11 4 1 44 11 5 1 44 11 5 1 44	4 55 14 1 4 55 14 1 4 55 14 0 4 56 14 0 4 56 14 0 4 57 14 0 4 57 13 59	7 35 7 35 7 35 7 35 7 35 7 35	7 42 21 29 7 44 21 26 7 45 21 24 7 46 21 21 7 47 21 19 7 48 21 16 7 50 21 14	10 33 0 5 10 34 0 5 10 35 0 5 10 36 0 5 10 37 0 5
S 18 M19 T 20 W21 T 22 F 23 S 24	0 35 0 12 0n12 0 36	20 31 4 42 24 31 5 7 27 16 5 15 28 26 5 6 27 50 4 39	9 12 2 10 8 33 2 10 7 52 2 10 7 11 2 13 6 28 2 13	6 6 53 1 25 23 25 6 6 6 24 1 26 23 25 6 5 56 1 26 23 25 5 5 27 1 26 23 15 3 4 58 1 27 23 16	0 27	23 2 0 24 23 2 0 24	8 8 1 43	15 9 0 45 15 9 0 45 15 10 0 45 15 10 0 45 15 11 0 45	11 7 1 44 11 7 1 44 11 8 1 44 11 9 1 44 11 9 1 43 11 10 1 43 11 11 1 43	4 58 13 59 4 58 13 59 4 59 13 59 4 59 13 58 4 59 13 58 5 0 13 58 5 0 13 58	7 38 7 39 7 40 7 40 7 40	7 54 21 4	10 41 0 5 10 42 0 5 10 43 0 5 10 44 0 6 10 45 0 6
S 25 M26 T 27 W28 T 29 F 30 S 31	2 10 2 34 2 57 3 21 3 44	9 39 0 24 2 50 0s56 4s 4 2 11 10 40 3 18	4 13 2 3 3 25 2 3 2 37 1 53 1 48 1 53 0 57 1 43	3 2 1 1 28 22 56 8 1 32 1 28 22 53	0 35 0 36 0 37 0 39 0 40 0 42 0 s43	23 2 0 24 23 2 0 24 23 2 0 24 23 2 0 24 23 1 0 24	8 1 1 43 7 58 1 43 7 55 1 43 7 53 1 43 7 50 1 43	15 13 0 45 15 13 0 45 15 13 0 45 15 14 0 45 15 14 0 45	11 12 1 43 11 12 1 43 11 13 1 43 11 14 1 43 11 14 1 43 11 15 1 43 11 16 1 s43	5 1 13 57 5 1 13 57 5 2 13 57 5 2 13 57 5 3 13 56 5 3 13 56 5 n 4 13 s56	7 39 7 38 7 39 7 39 7 40	7 59 20 54 8 0 20 52 8 1 20 50 8 3 20 47 8 4 20 45 8 5 20 42 8s 6 20 s40	10 49 0 6 10 50 0 6 10 51 0 6 10 53 0 6 10 54 0 6

Julian Day Number = 2406679.5, Delta T = -2.11 sec Ecliptic obliquity = $23^{\circ}27'28$, Nutation = $0^{\circ}00'07$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $23^{\circ}01'30$, Lahiri = $22^{\circ}08'30$

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Day	Sid.t	0	D	ğ	·	ď	4	ħ)∤(¥	В	r	v	Ç	Ŗ	Day
S 1	12 37 49	11 Y 22'44	17 M 0	5 Υ 38	2 Υ 0	19 3 41	3	14) (21	20°R54	4 8 6	23 8 8	10°R15	9) 12	8≈43	28 Y 44	S 1
M 2	12 41 46	12°21'50	0 ∡ 13	7°36	3°15	20°19	3° 7	14°28	20€52	4° 8	23° 9	10) 10	9° 9	8°50	28°48	M 2
T 3	12 45 43	13°20'55	13° 3	9°36	4°29	20°58	3°10	14°35	20°51	4°10	23°10	10° 6	9° 6	8°56	28°52	T 3
W 4	12 49 39	14°19'58	25°32	11°37	5°43	21°36	3°13	14°42	20°50	4°12	23°11	10° 3	9° 3	9° 3	28°56	W 4
T 5	12 53 36	15°18'59	7 궁 44	13°39	6°58	22°15	3°16	14°48	20°49	4°15	23°13	10° 1	9° 0	9°10	28°59	T 5
F 6	12 57 32	16°17'58	19°43	15°43	8°12	22°53	3°19	14°55	20°47	4°17	23°14	10°D 1	8°56	9°16	29° 3	F 6
S 7	13 1 29	17°16'55	1≈35	17°47	9°26	23°31	3°21	15° 2	20°46	4°19	23°15	10° 2	8°53	9°23	29° 7	S 7
S 8	13 5 25	18°15'51	13°23	19°52	10°41	24°10	3°24	15° 8	20°45	4°21	23°16	10° 3	8°50	9°30	29°10	S 8
M 9	13 9 22	19°14'45	25°14	21°57	11°55	24°48	3°26	15°15	20°44	4°23	23°17	10° 5	8°47	9°36	29°14	M 9
T 10	13 13 18	20°13'37	7) €12	24° 3	13° 9	25°26	3°28	15°21	20°43	4°25	23°18	10°R 6	8°44	9°43	29°18	T 10
W11	13 17 15	21°12'27	19°20	26° 9	14°23	26° 4	3°30	15°28	20°42	4°28	23°19	10° 5	8°41	9°50	29°22	W11
T 12	13 21 12	22°11'15	1 Υ 42	28°15	15°38	26°42	3°31	15°34	20°41	4°30	23°21	10° 3	8°37	9°56	29°26	T 12
F 13	13 25 8	23°10'02	14°20	0 8 21	16°52	27°20	3°33	15°40	20°41	4°32	23°22	9°59	8°34	10° 3	29°29	F 13
S 14	13 29 5	24° 8'46	27°14	2°26	18° 6	27°58	3°34	15°47	20°40	4°34	23°23	9°53	8°31	10°10	29°33	S 14
S 15	13 33 1	25° 7'29	10825	4°30	19°20	28°36	3°35	15°53	20°39	4°37	23°24	9°45	8°28	10°16	29°37	S 15
M16	13 36 58	26° 6'09	23°50	6°32	20°34	29°14	3°36	15°59	20°39	4°39	23°25	9°37	8°25	10°23	29°41	M16
T 17	13 40 54	27° 4'48	7Ⅱ29	8°33	21°49	29°52	3°37	16° 5	20°38	4°41	23°27	9°30	8°21	10°30	29°45	T 17
W18	13 44 51	28° 3'24	21°17	10°33	23° 3	0≈29	3°37	16°11	20°37	4°43	23°28	9°24	8°18	10°36	29°48	W18
T 19	13 48 47	29° 1'59	59914	12°29	24°17	1° 7	3°37	16°18	20°37	4°46	23°29	9°19	8°15	10°43	29°52	T 19
F 20	13 52 44	0 8 0'31	19°16	14°24	25°31	1°45	3°R38	16°24	20°36	4°48	23°30	9°17	8°12	10°50	29°56	F 20
S 21	13 56 41	0°59'00	3 Ω 23	16°15	26°45	2°22	3°37	16°30	20°36	4°50	23°32	9°D16	8° 9	10°56	29°59	S 21
S 22	14 0 37	1°57'28	17°33	18° 3	27°59	3° 0	3°37	16°35	20°36	4°52	23°33	9°17	8° 6	11° 3	0 8 4	S 22
M23	14 4 34	2°55'53	1 m) 44	19°48	29°13	3°37	3°37	16°41	20°35	4°55	23°34	9°18	8° 2	11°10	0° 7	M23
T 24	14 8 30	3°54'17	15°55	21°29	0828	4°15	3°36	16°47	20°35	4°57	23°35	9°R18	7°59	11°16	0°11	T 24
W25	14 12 27	4°52'38	0요 4	23° 6	1°42	4°52	3°35	16°53	20°35	4°59	23°37	9°16	7°56	11°23	0°15	W25
T 26	14 16 23	5°50'57	14° 7	24°40	2°56	5°29	3°34	16°58	20°35	5° 1	23°38	9°12	7°53	11°30	0°19	T 26
F 27	14 20 20	6°49'14	28° 0	26° 9	4°10	6° 6	3°33	17° 4	20°35	5° 4	23°39	9° 5	7°50	11°36	0°23	F 27
S 28	14 24 16	7°47'29	11 M 41	27°34	5°24	6°44	3°32	17°10	20°D35	5° 6	23°41	8°57	7°46	11°43	0°26	S 28
S 29	14 28 13	8°45'43	25° 5	28°55	6°38	7°21	<u>3°30</u>	17°15	20°35	5° 8	23°42	8°47	7°43	11°50	0°30	S 29
M30	14 32 9	9 8 43'55	8 ₹ 10	0耳12	7 8 52	7≈58	3 る 28	17) (21	$20\Omega 35$	5 8 10	23 8 43	8) 36	7)(40	11≈56	0 8 34	M30

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S 1	4n30	21 s31 4s	s47 0n46	1 s36	0 s32	1 s27	22 s45	0 s44	23 s	0n24	7 s45	1 s44	15n15	0n45	11n17	1 s43	5n 4 13s56	7 s44	8 s 7	20 s37	10n56	0 s 6
M 2	4 53	25 13 5	8 1 39	1 29	0 2	1 27	22 40	0 46	23	0 24	7 43	1 44	15 16	0 45	11 17	1 43	5 4 13 55	7 46	8 9	20 35	10 57	0 6
T 3	5 16	27 32 5	12 2 33	1 22	0n28	1 27	22 36	0 47	23	0 24	7 40	1 44	15 16	0 45	11 18	1 43	5 5 13 55	7 47	8 10	20 32	10 59	0 6
W 4	5 39	28 24 5	1 3 27	1 15	0 57	1 26	22 31	0 49	23	0 24	7 38	1 44	15 16	0 45	11 19	1 43	5 5 13 55	7 48	8 11	20 29	11 0	0 7
T 5	6 2	27 50 4	37 4 22	1 6	1 27	1 26	22 27	0 50	23	0 24	7 35	1 44	15 17	0 45	11 20	1 43	5 6 13 55	7 49	8 12	20 27	11 1	0 7
F 6	6 25	25 58 4	1 5 18	0 58	1 57	1 25	22 22	0 52	23	0 24	7 33	1 44	15 17	0 45	11 20	1 43	5 6 13 55	7 49	8 13	20 24	11 2	0 7
S 7	6 47	22 59 3	15 6 14	0 49	2 27	1 25	22 17	0 53	23	0 24	7 30	1 44	15 17	0 45	11 21	1 43	5 7 13 54	7 49	8 15	20 22	11 4	0 7
S 8	7 10	19 3 2	20 7 10	0 39	2 57	1 24	22 12	0 55	23	0 24	7 28	1 44	15 18	0 45	11 22	1 43	5 7 13 54	7 48	8 16	20 19	11 5	0 7
M 9	7 32	14 23 1	20 8 6	0 29	3 26	1 23	22 6	0 56	23	0 24	7 26	1 45	15 18	0 45	11 22	1 43	5 8 13 54	7 48	8 17	20 17	11 6	0 7
T 10	7 55	9 7 0	16 9 2	0 19	3 56	1 22	22 1	0 58	23	0 24	7 23	1 45	15 18	0 45	11 23	1 43	5 8 13 54	7 47	8 18	20 14	11 8	0 7
W11	8 17	3 27 Or	n50 9 58	0 9	4 26	1 21 2	21 55	0 59	23	0 24	7 21	1 45	15 19	0 45	11 24	1 43	5 9 13 54	7 47	8 19	20 12	11 9	0 7
T 12	8 39	2n26 1	55 10 54	0n 2	4 55	1 21 2	21 50	1 1	23	0 24	7 18	1 45	15 19	0 45	11 25	1 43	5 9 13 53	7 48	8 21	20 9	11 10	0 7
F 13	9 1	8 20 2	55 11 48	0 13	5 24	1 20	21 44	1 2	23	0 24	7 16	1 45	15 19	0 45	11 26	1 43	5 9 13 53	7 50	8 22	20 7	11 11	0 7
S 14	9 22	14 2 3	47 12 42	0 24	5 54	1 19	21 38	1 4	23	0 23	7 14	1 45	15 19	0 45	11 26	1 43	5 10 13 53	7 52	8 23	20 4	11 13	0 7
S 15	9 44	19 12 4	29 13 35	0 35	6 23	1 18	21 32	1 6	23	0 23	7 11	1 45	15 19	0 45	11 27	1 43	5 10 13 53	7 55	8 24	20 1	11 14	0 7
M16	10 5	23 31 4	56 14 26	0 46	6 52	1 16	21 26	1 7	23	0 23	7 9	1 46	15 20	0 45	11 28	1 43	5 11 13 53	7 58	8 25	19 59	11 15	0 7
T 17	10 26	26 38 5	7 15 16	0 57	7 21	1 15		1 9	23	0 23	7 7	1 46	15 20	0 45	11 29	1 43	5 11 13 53	8 1	8 27	19 56	11 16	0 7
W18	10 47	28 11 5	1 16 4	1 8	7 49	1 14 2		1 11	23	0 23	7 5	1 46	15 20	0 45	11 29	1 43	5 12 13 52		8 28	19 54	11 18	0 8
T 19	-		37 16 50		8 18		21 6	1 12	23	0 23	7 2	1 46	15 20	0 45	11 30	1 43	5 12 13 52		8 29		11 19	0 8
F 20	11 29	25 58 3	56 17 34	1 28	8 46	1 11 2	20 59	1 14	23	0 23	7 0	1 46	15 20	0 45	11 31	1 43	5 13 13 52	8 6	8 30	19 49	11 20	0 8
S 21	11 50	22 21 3	1 18 16	1 38	9 14	1 10	20 53	1 16	23	0 23	6 58	1 46	15 20	0 44	11 32	1 43	5 13 13 52	8 6	8 31	19 46	11 21	0 8
S 22	12 10	17 24 1	54 18 56	1 47	9 42	1 8	20 46	1 18	23	0 23	6 56	1 47	15 20	0 44	11 32	1 43	5 13 13 52	8 6	8 32	19 43	11 23	0 8
M23	12 30	11 30 0	41 19 33	1 55	10 10	1 7	20 39	1 19	23	0 23	6 54	1 47	15 20	0 44	11 33	1 43	5 14 13 52	8 5	8 34	19 41	11 24	0 8
T 24	12 50	5 1 0	s36 20 8	2 3	10 37	1 5	20 32	1 21	23	0 23	6 52	1 47	15 20	0 44	11 34	1 43	5 14 13 52	8 5	8 35	19 38	11 25	0 8
W25	13 9	1 s42 1	49 20 40	2 10	11 4	1 4	20 24	1 23	23	0 23	6 50	1 47	15 20	0 44	11 35	1 43	5 15 13 52	8 6	8 36	19 36	11 27	0 8
T 26	13 29	8 16 2	55 21 10	2 17	11 31	1 2	20 17	1 25	23	0 23	6 48	1 47	15 20	0 44	11 35	1 43	5 15 13 51	8 8	8 37	19 33	11 28	0 8
F 27	13 48	14 21 3	50 21 37	2 23	11 58	1 0	20 10	1 27	23	0 23	6 46	1 47	15 20	0 44	11 36	1 43	5 15 13 51	8 10	8 38	19 30	11 29	0 8
S 28	14 7	19 38 4	31 22	2 27	12 24	0 59	20 2	1 29	23	0 23	6 44	1 48	15 20	0 44	11 37	1 43	5 16 13 51	8 13	8 40	19 28	11 30	0 8
S 29	14 26	23 50 4	56 22 24	2 31	12 51	0 57	19 54	1 30	23	0 23	6 42	1 48	15 20	0 44	11 38	1 43	5 16 13 51	8 17	8 41	19 25	11 32	0 8
M30	14n44		s 4 22n43		13n16	0s55			23 s		6 s 4 0		15n20		11n38		5n17 13s51				11n33	

Julian Day Number = 2406710.5, Delta T = -2.14 sec Ecliptic obliquity = 23°27'28, Nutation = 0°00'05, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 23°01'34, Lahiri = 22°08'34

MAY 1877 00:00 UT

Day	Sid.t	0	D	Ϋ́	·	ð	4	ħ)ب(¥	Р	n	u	Ç	ķ	Day
T 1	14 36 6	10842'05	20 ∡ 757	1 П 24	9 8 6	8≈35	3°R26	17) (26	20€35	5 8 13	23844	8°R27	7)(37	12≈ 3	0 8 38	T 1
W 2	14 40 3	11°40'14	3 云 24	2°31	10°20	9°11	3 る 24	17°31	20°35	5°15	23°46	8) 19	7°34	12°10	0°42	W 2
T 3	14 43 59	12°38'21	15°36	3°34	11°34	9°48	3°22	17°36	20°36	5°17	23°47	8°13	7°31	12°16	0°45	T 3
F 4	14 47 56	13°36'27	27°36	4°32	12°48	10°25	3°19	17°42	20°36	5°19	23°48	8° 9	7°27	12°23	0°49	F 4
S 5	14 51 52	14°34'32	9≈28	5°25	14° 2	11° 1	3°17	17°47	20°36	5°22	23°50	8° 8	7°24	12°30	0°53	S 5
S 6	14 55 49	15°32'35	21°17	6°13	15°16	11°38	3°14	17°52	20°37	5°24	23°51	8°D 8	7°21	12°36	0°57	S 6
M 7	14 59 45	16°30'36	3 ∺ 8	6°57	16°30	12°14	3°11	17°57	20°37	5°26	23°52	8°R 8	7°18	12°43	1° 0	M 7
T 8	15 3 42	17°28'36	15° 8	7°36	17°44	12°50	3° 8	18° 2	20°38	5°28	23°54	8° 8	7°15	12°50	1° 4	T 8
W 9	15 7 38	18°26'35	27°21	8° 9	18°57	13°27	3° 4	18° 7	20°38	5°31	23°55	8° 7	7°12	12°56	1°8	W 9
T 10	15 11 35	19°24'33	9 Y 50	8°38	20°11	14° 3	3° 1	18°11	20°39	5°33	23°57	8° 3	7° 8	13° 3	1°11	T 10
F 11	15 15 32	20°22'29	22°40	9° 2	21°25	14°39	2°57	18°16	20°39	5°35	23°58	7°56	7° 5	13°10	1°15	F 11
S 12	15 19 28	21°20'23	5 8 51	9°20	22°39	15°14	2°53	18°21	20°40	5°37	23°59	7°47	7° 2	13°16	1°19	S 12
S 13	15 23 25	22°18'17	19°23	9°34	23°53	15°50	2°49	18°25	20°41	5°39	24° 1	7°37	6°59	13°23	1°22	S 13
M14	15 27 21	23°16'09	3 I I13	9°42	25° 7	16°26	2°45	18°30	20°42	5°42	24° 2	7°25	6°56	13°30	1°26	M14
T 15	15 31 18	24°13'59	17°18	9°R46	26°21	17° 1	2°41	18°34	20°43	5°44	24° 3	7°14	6°52	13°36	1°30	T 15
W16	15 35 14	25°11'48	1932	9°44	27°35	17°37	2°36	18°38	20°44	5°46	24° 5	7° 4	6°49	13°43	1°33	W16
T 17	15 39 11	26° 9'36	15°51	9°39	28°49	18°12	2°31	18°43	20°45	5°48	24° 6	6°57	6°46	13°50	1°37	T 17
F 18	15 43 8	27° 7'21	ON 9	9°28	0 I I 2	18°47	2°26	18°47	20°46	5°50	24° 7	6°53	6°43	13°56	1°40	F 18
S 19	15 47 4	28° 5'05	14°23	9°14	1°16	19°22	2°21	18°51	20°47	5°52	24° 9	6°51	6°40	14° 3	1°44	S 19
S 20	15 51 1	29° 2'48	28°32	8°55	2°30	19°57	2°16	18°55	20°48	5°54	24°10	6°50	6°37	14°10	1°47	S 20
M21	15 54 57	0Ⅱ 0'28	12 M y34	8°33	3°44	20°31	2°11	18°59	20°49	5°57	24°11	6°50	6°33	14°16	1°51	M21
T 22	15 58 54	0°58'07	26°28	8° 7	4°58	21° 6	2° 6	19° 2	20°50	5°59	24°13	6°49	6°30	14°23	1°54	T 22
W23	16 2 50	1°55'45	10 ≏ 15	7°39	6°11	21°40	2° 0	19° 6	20°52	6° 1	24°14	6°46	6°27	14°29	1°58	W23
T 24	16 6 47	2°53'21	23°53	7° 9	7°25	22°14	1°54	19°10	20°53	6° 3	24°15	6°41	6°24	14°36	2° 1	T 24
F 25	16 10 43	3°50'56	7 M 22	6°37	8°39	22°48	1°48	19°13	20°54	6° 5	24°17	6°32	6°21	14°43	2° 4	F 25
S 26	16 14 40	4°48'29	20°39	6° 4	9°53	23°22	1°43	19°17	20°56	6° 7	24°18	6°21	6°18	14°49	2° 8	S 26
S 27	16 18 37	5°46'01	3 ∡ 744	5°30	11° 6	23°56	1°36	19°20	20°57	6° 9	24°19	6° 9	6°14	14°56	2°11	S 27
M28	16 22 33	6°43'32	16°34	4°56	12°20	24°30	1°30	19°24	20°59	6°11	24°21	5°56	6°11	15° 3	2°14	M28
T 29	16 26 30	7°41'02	29° 9	4°23	13°34	25° 3	1°24	19°27	21° 1	6°13	24°22	5°44	6° 8	15° 9	2°18	T 29
W30	16 30 26	8°38'32	11 중 29	3°51	14°48	25°36	1°18	19°30	21° 2	6°15	24°23	5°33	6° 5	15°16	2°21	W30
T 31	16 34 23	9∏36′00	23 る 37	3Ⅱ20	16 I 1	26≈ 9	1 ਰ 11	19 米 33	21& 4	6 8 17	24 8 25	5 ₩ 25	6 米 2	15≈23	2 8 24	T 31

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T 1	15n 3	28 s 5	4s57	23n 1	2n37	13n42	0s53	19 s39	1 s34	23 s 2	2 0n23	6 s 3 8	1 s48	15n20	0n44	11n39	1 s43	5n17 13	3 s 5 1	8 s25	8 s43	19s20	11n34	0s 9
W 2	15 21	28 1	4 36	23 15	2 38	14 7	0 51	19 31	1 36	23	0 23	6 36	1 48	15 20	0 44	11 40	1 43	5 17 13	3 51	8 28	8 44	19 17	11 35	0 9
T 3		26 33		23 28		14 32		19 23		_	-	6 34		15 20		11 41	1 43	5 18 13	-	8 30			11 37	
F 4		23 54	-	23 38		14 56		19 15				6 32		15 20		11 41	1 43	5 18 13	-	8 31		19 12		0 9
S 5	16 13	20 15	2 27	23 46	2 35	15 20	0 45	19 7	1 42	23	0 22	6 30	1 49	15 20	0 44	11 42	1 43	5 19 13	3 51	8 32	8 48	19 9	11 39	0 9
S 6	16 30	15 49	1 29	23 52	2 32	15 44	0 43	18 59	1 44	23	0 22	6 29	1 49	15 20	0 44	11 43	1 43	5 19 13	3 50	8 32	8 49	19 6	11 40	0 9
M 7	16 47	10 47	0 27	23 55	2 28	16 7	0 41	18 50	1 46	23	0 22	6 27	1 49	15 19	0 44	11 43	1 43	5 19 13	3 50	8 31	8 50	19 4	11 41	0 9
T 8	17 4	5 17		23 57	2 23			18 42	1 48			6 25		15 19		11 44	1 43	5 20 13		8 31	8 51		11 43	
W 9	17 20	0n29		23 56	2 17			18 34				6 23		15 19		11 45	1 43	5 20 13		8 32		18 58		
T 10	17 36	6 21		23 54	2 10			18 25	1 52			6 22		15 19		11 46	1 43	5 20 13		8 34		18 56	-	0 9
F 11	17 51	12 7		23 49		17 36		18 17		_		6 20		15 19		11 46	1 43	5 21 13		8 36		18 53	-	0 9
S 12	18 7	17 30	4 16	23 43	1 52	17 57	0 31	18 8	1 57	23	0 22	6 18	1 50	15 18	0 44	11 47	1 43	5 21 13	3 50	8 39	8 56	18 50	11 4/	0 9
S 13	-	22 11		23 35		18 18		17 59				6 17		15 18		11 48	1 43	5 21 13		8 43		18 48		
M14	18 36	-		23 25	1 31			17 51		23	-	6 15		15 18		11 48	1 43	5 22 13					11 50	0 10
T 15		27 46		23 13			-	17 42		23		6 14		15 17		11 49	1 43	5 22 13		8 52		18 42	-	0 10
W16		28 1	4 35		1 5			17 33		23		6 12		15 17		11 50	1 43	5 23 13		8 55	9 1	18 40		
T 17		26 24		22 45		19 36		17 24		23		6 11		15 17		11 51	1 43	5 23 13		8 58	9 2			
F 18 S 19	19 32			22 28		19 54		17 16	2 10			6 9		15 16		11 51	1 43	5 23 13		9 0			11 55	
	19 45	18 22	1 30	22 10	0 20	20 12	0 15	1///	2 12	23	5 0 21	6 8	1 32	15 16	0 43	11 52	1 43	5 23 13	3 30	9 0	9 4	18 31	11 56	0 10
S 20		12 41		21 51		20 29	-	16 58				6 7		15 15		11 53	1 43	5 24 13		-			11 57	
M21	20 10			21 31		20 45		16 49	2 17			6 5		15 15		11 53	1 43	5 24 13		-			11 58	
T 22	20 22	0s 9		21 10		21 1		16 40	2 19			6 4		15 15			1 43	5 24 13		9 1	-			
W23	20 34	6 37		20 48		21 17		16 31	2 21			6 3		15 14		11 55	1 43	5 25 13		9 2				0 10
T 24 F 25		12 42		20 26		21 31		16 22				6 1		15 14 15 13		11 55 11 56	1 43	5 25 13		9 4				0 10
S 26	20 56	18 7 22 34	4 23	20 3 19 41		21 45 21 59	0 0 0n 2	16 13 16 4	2 26 2 28			6 0 5 59		15 13		11 56	1 43 1 43	5 25 13 5 26 13				18 15 18 12		
	21 /	22 34	4 49	19 41			On Z	10 4			0 21		1 34	13 13	0 43	11 37	1 43	3 20 13	3 30	9 11	9 13	16 12	12 3	0 11
S 27	-	25 49	-	19 18		22 12		15 55	2 31	_		5 58		15 12		11 57	1 43	5 26 13			-	18 9		0 11
M28	-	27 40		18 56		22 24		15 46	2 33			5 57		15 12		11 58	1 43	5 26 13		9 21			12 6	
T 29	21 36			18 35		22 36		15 38				5 56		15 11		11 58	1 43	5 26 13		9 25	9 16	-		0 11
	21 46			18 15		22 47	-	15 29	2 38		0 20	5 55		15 11		11 59	1 43	5 27 13		9 29	9 17	-	12 8	0 11
T 31	21n54	24 s42	3 s2 l	17n56	2 s 5 8	22n57	0n14	15 s20	2 s4 l	23 s '	7 0n20	5 s 5 4	1 855	15n10	0n43	12n 0	1 s44	5n27 13	3 S S U	9 S 3 2	9818	1/s58	12n 9	USII

Julian Day Number = 2406740.5, Delta T = -2.18 sec Ecliptic obliquity = $23^{\circ}27'27$, Nutation = $0^{\circ}00'05$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $23^{\circ}01'38$, Lahiri = $22^{\circ}08'38$

JUNE 1877 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ)f(卉	Р	ß	v	Ç	, K	Day
F 1	16 38 19	10 Ⅲ 33'27	5≈34	2°R52	17 II 15	26≈42	1°R 4	19) (36	21 Ω 6	6 8 19	24826	5°R20	5) 58	15≈29	2 8 27	F 1
S 2	16 42 16	11°30'54	17°24	2 Ⅱ 27	18°29	27°15	0 궁 58	19°39	21° 7	6°21	24°27	5 ₩ 17	5°55	15°36	2°30	S 2
S 3	16 46 12	12°28'19	29°12	2° 5	19°42	27°47	0°51	19°42	21° 9	6°23	24°29	5°16	5°52	15°43	2°34	S 3
M 4	16 50 9	13°25'44	11) (4	1°46	20°56	28°19	0°44	19°44	21°11	6°25	24°30	5°16	5°49	15°49	2°37	M 4
T 5	16 54 6	14°23'09	23° 3	1°30	22°10	28°51	0°37	19°47	21°13	6°26	24°31	5°16	5°46	15°56	2°40	T 5
W 6	16 58 2	15°20'33	5 ℃ 17	1°19	23°23	29°23	0°30	19°50	21°15	6°28	24°33	5°15	5°43	16° 3	2°43	W 6
T 7	17 1 59	16°17'56	17°49	1°12	24°37	29°55	0°23	19°52	21°17	6°30	24°34	5°11	5°39	16° 9	2°46	T 7
F 8	17 5 55	17°15'19	0 8 44	1°D10	25°51	0 ∺ 26	0°15	19°54	21°19	6°32	24°35	5° 6	5°36	16°16	2°49	F 8
S 9	17 9 52	18°12'41	14° 4	1°11	27° 4	0°57	0° 8	19°57	21°21	6°34	24°36	4°57	5°33	16°23	2°52	S 9
S 10	17 13 48	19°10'02	27°50	1°18	28°18	1°28	0° 1	19°59	21°23	6°36	24°38	4°47	5°30	16°29	2°55	S 10
M11	17 17 45	20° 7'23	11 II 58	1°29	29°32	1°58	29 х 53	20° 1	21°26	6°37	24°39	4°36	5°27	16°36	2°58	M11
T 12	17 21 41	21° 4'44	26°26	1°44	09645	2°29	29°46	20° 3	21°28	6°39	24°40	4°25	5°24	16°43	3° 0	T 12
W13	17 25 38	22° 2'04	1195 4	2° 4	1°59	2°59	29°38	20° 5	21°30	6°41	24°41	4°16	5°20	16°49	3° 3	W13
T 14	17 29 35	22°59'23	25°47	2°28	3°13	3°29	29°31	20° 6	21°32	6°43	24°43	4° 9	5°17	16°56	3° 6	T 14
F 15	17 33 31	23°56'41	10 Ω 27	2°57	4°26	3°58	29°23	20° 8	21°35	6°44	24°44	4° 5	5°14	17° 3	3° 9	F 15
S 16	17 37 28	24°53'58	24°58	3°30	5°40	4°27	29°16	20°10	21°37	6°46	24°45	4° 3	5°11	17° 9	3°11	S 16
S 17	17 41 24	25°51'15	9 m)17	4° 8	6°54	4°56	29° 8	20°11	21°40	6°47	24°46	4°D 3	5° 8	17°16	3°14	S 17
M18	17 45 21	26°48'31	23°21	4°50	8° 7	5°24	29° 0	20°12	21°42	6°49	24°47	4°R 3	5° 4	17°23	3°17	M18
T 19	17 49 17	27°45'45	7 ⊆ 10	5°36	9°21	5°53	28°53	20°14	21°45	6°51	24°49	4° 3	5° 1	17°29	3°19	T 19
W20	17 53 14	28°42'59	20°45	6°26	10°34	6°21	28°45	20°15	21°47	6°52	24°50	4° 1	4°58	17°36	3°22	W20
T 21	17 57 10	29°40'13	4 m 7	7°20	11°48	6°48	28°37	20°16	21°50	6°54	24°51	3°57	4°55	17°42	3°24	T 21
F 22	18 1 7	0937'26	17°15	8°18	13° 2	7°15	28°30	20°17	21°52	6°55	24°52	3°50	4°52	17°49	3°27	F 22
S 23	18 5 4	1°34'38	0 ∡ 11	9°20	14°15	7°42	28°22	20°18	21°55	6°57	24°53	3°41	4°49	17°56	3°29	S 23
S 24	18 9 0	2°31'50	12°55	10°26	15°29	8° 9	28°14	20°18	21°58	6°58	24°54	3°31	4°45	18° 2	3°31	S 24
M25	18 12 57	3°29'02	25°27	11°36	16°42	8°35	28° 7	20°19	22° 1	7° 0	24°55	3°20	4°42	18° 9	3°34	M25
T 26	18 16 53	4°26'13	7 云 48	12°49	17°56	9° 1	27°59	20°20	22° 3	7° 1	24°56	3°10	4°39	18°16	3°36	T 26
W27	18 20 50	5°23'24	19°57	14° 6	19° 9	9°26	27°52	20°20	22° 6	7° 2	24°57	3° 1	4°36	18°22	3°38	W27
T 28	18 24 46	6°20'35	1≈57	15°27	20°23	9°51	27°44	20°21	22° 9	7° 4	24°59	2°55	4°33	18°29	3°40	T 28
F 29	18 28 43	7°17'46	13°50	16°52	21°36	10°16	27°37	20°21	22°12	7° 5	25° 0	2°51	4°30	18°36	3°43	F 29
S 30	18 32 40	8914'57	25≈38	18Ⅲ20	22950	10) (40	27 × 129	20) (21	22 Ω 15	7 8 6	258 1	2) 49	4) €26	18≈42	3 8 45	S 30

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	decl	decl lat	t	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	decl	decl	decl	decl	lat
F 1 S 2			2 s 3 0 1 1 3 3 1			23n 7 23 16	0n16 0 19	15 s11 15 2	2 s43 2 46	23 s 7		5 s53 5 52	1 s55 1 55	15n 9 15 9		12n 0 12 1	1 s44 1 44	5n27 13 s50 5 27 13 50			17 s 5 6 17 5 3		0 s11 0 11
S 3 M 4 T 5	22 18 22 26	6 57 0		6 55	3 42		0 24	14 44	2 48 2 51	23 8	0 20	5 51 5 50	1 55 1 56	15 8	0 43	12 2	1 44 1 44	5 28 13 50 5 28 13 50	9 35	9 23	17 47	-	0 11 0 11
W 6 T 7 F 8	22 33 22 39 22 45 22 51	4n25 2 10 9 3 15 38 4	2 32 1 3 25 1 4 10 1	6 28 6 24	3 56 4 2 4 6	23 56	0 28 0 31 0 33		2 56 2 59 3 2	23 8 23 8 23 8	0 19 0 19 0 19	5 49 5 49 5 48 5 47	1 56 1 56 1 56 1 57	15 6 15 6 15 5	0 43 0 43 0 43	12 3 12 4 12 4	1 44 1 44 1 44 1 44	5 28 13 50 5 28 13 50 5 29 13 51 5 29 13 51	9 36 9 37 9 39	9 25 9 27 9 28	17 45 17 42 17 39 17 36	12 15 12 16 12 17	0 11 0 11 0 12 0 12
T 14 F 15	23 1 23 5 23 9 23 13 23 16 23 19	24 33 4 27 11 4 28 4 4 27 1 4 24 5 3 19 35 2	4 40 1 4 2 1 3 8 1	6 21 6 23 6 26 6 32 6 39 6 48	4 9 4 10 4 11 4 10 4 9 4 6 4 2 3 58	24 4 24 7 24 9 24 10 24 11	0 40 0 42 0 44 0 46	13 52 13 44 13 35 13 27 13 19 13 11		23 8 23 9 23 9 23 9 23 9 23 9	0 19 0 19 0 19 0 19 0 19 0 18 0 18	5 47 5 46 5 45 5 45 5 44 5 44 5 43	1 57 1 57 1 57 1 58 1 58 1 58 1 58	15 3 15 3 15 2 15 1 15 0	0 43 0 43 0 43 0 43 0 43 0 43	12 5 12 6 12 7 12 7 12 8 12 8	1 44 1 44 1 44 1 44 1 44 1 44	5 29 13 51 5 29 13 51 5 29 13 51 5 30 13 51	9 46 9 50 9 54 9 57 10 0 10 1	9 31 9 32 9 34 9 35 9 36	17 33 17 31 17 28 17 25 17 22 17 19 17 16 17 14	12 19 12 20 12 21 12 22 12 23	0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12
S 17 M18 T 19 W20 T 21 F 22 S 23	23 24 23 25 23 26 23 27 23 27 23 27 23 27	1 6 1 5s24 2 11 32 3 17 2 4 21 39 4	2 47 1 3 42 1 4 24 1 4 51 1	7 24 7 39 7 55 8 12	3 15	24 7 24 4	0 54 0 56 0 58 1 0 1 2	12 31	3 27 3 30 3 32 3 35 3 38 3 41	23 9 23 9 23 9 23 9	0 0 18 0 0 18 0 0 18 0 0 18 0 0 17	5 43 5 43 5 42 5 42 5 42 5 42 5 42	1 59 1 59 2 0 2 0 2 0	14 58 14 57 14 56 14 55 14 55 14 54 14 53	0 43 0 42 0 42 0 42 0 42	12 10 12 10 12 11 12 11	1 44 1 44 1 44 1 44 1 44 1 44	5 30 13 52 5 31 13 52	2 10 2 2 10 2 2 10 3 2 10 4 2 10 7	9 39 9 41 9 42 9 43 9 44	17 8 17 5	12 28	0 12 0 13 0 13 0 13 0 13 0 13 0 13
/	23 21 23 18 23 15	28 4 4 27 24 4 25 25 3 22 18 2 18 17 1	4 42 1	9 28 9 48 9 48 0 8 0 29 0 49	2 45 2 35 2 23 2 12 2 0	23 24 23 15	1 7 1 9 1 10 1 12 1 14	12 2 11 55 11 48 11 41 11 34 11 28 11 s21	3 50 3 53 3 56 3 59 4 3	23 10 23 10 23 10 23 10 23 10 23 10 23 s10	0 0 17 0 0 17 0 0 17 0 0 17 0 0 16	5 42 5 42 5 42 5 42 5 42 5 42 5 842	2 2	14 52 14 51 14 50 14 49 14 48 14 47 14n46	0 42 0 42 0 42 0 42 0 42	12 13 12 14 12 14	1 45 1 45 1 45 1 45 1 45	5 31 13 52 5 31 13 53 5 32 13 53	10 17 10 21 10 24 10 27 10 28	9 48 9 49 9 50 9 51 9 52	16 51 16 48 16 45 16 42 16 39 16 36 16s34	12 30 12 31 12 32 12 32	0 13 0 13 0 13 0 13 0 13 0 14 0 s14

Julian Day Number = 2406771.5, Delta T = -2.21 sec Ecliptic obliquity = $23^{\circ}27'27$, Nutation = $0^{\circ}00'06$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $23^{\circ}01'42$, Lahiri = $22^{\circ}08'43$

JULY 1877 00:00 UT

Day	Sid.t	\odot	D	φ	φ	♂	4	ħ)ұ(卉	Р	r	Ω	Ç	Š	Day
S 1	18 36 36	99512'08	7) €26	19 Ⅱ 52	2495 3	11) (4	27°R22	20°R21	22 Ω 18	7 と 8	25 8 2	2°D49	4) (23	18 ≈ 49	3 8 47	S 1
M 2	18 40 33	10° 9'19	19°16	21°27	25°17	11°27	27 × 14	20 米 21	22°21	7° 9	25° 3	2) (49	4°20	18°56	3°49	M 2
T 3	18 44 29	11° 6'31	1 Y 15	23° 5	26°30	11°50	27° 7	20°21	22°24	7°10	25° 4	2°50	4°17	19° 2	3°51	T 3
W 4	18 48 26	12° 3'42	13°28	24°47	27°44	12°13	27° 0	20°21	22°27	7°11	25° 5	2°R51	4°14	19° 9	3°53	W 4
T 5	18 52 22	13° 0'54	25°59	26°32	28°57	12°35	26°53	20°20	22°30	7°13	25° 6	2°50	4°10	19°16	3°54	T 5
F 6	18 56 19	13°58'07	8 8 54	28°21	0 Ω 11	12°56	26°46	20°20	22°33	7°14	25° 7	2°47	4° 7	19°22	3°56	F 6
S 7	19 0 15	14°55'19	22°14	09512	1°24	13°17	26°39	20°19	22°36	7°15	25° 8	2°43	4° 4	19°29	3°58	S 7
S 8	19 4 12	15°52'33	6 II 3	2° 6	2°38	13°37	26°32	20°19	22°39	7°16	25° 8	2°37	4° 1	19°36	4° 0	S 8
M 9	19 8 9	16°49'46	20°18	4° 3	3°51	13°57	26°25	20°18	22°42	7°17	25° 9	2°30	3°58	19°42	4° 1	M 9
T 10	19 12 5	17°47'00	4956	6° 2	5° 5	14°17	26°18	20°17	22°46	7°18	25°10	2°23	3°55	19°49	4° 3	T 10
W11	19 16 2	18°44'15	19°51	8° 3	6°18	14°35	26°12	20°16	22°49	7°19	25°11	2°17	3°51	19°55	4° 5	W11
T 12	19 19 58	19°41'29	4 Ω 53	10° 6	7°31	14°54	26° 5	20°15	22°52	7°20	25°12	2°13	3°48	20° 2	4° 6	T 12
F 13	19 23 55	20°38'44	19°53	12°11	8°45	15°11	25°59	20°14	22°55	7°21	25°13	2°10	3°45	20° 9	4° 7	F 13
S 14	19 27 51	21°35'58	4 m) 44	14°17	9°58	15°28	25°53	20°13	22°59	7°22	25°14	2°D10	3°42	20°15	4° 9	S 14
S 15	19 31 48	22°33'13	19°19	16°25	11°12	15°45	25°46	20°12	23° 2	7°23	25°15	2°11	3°39	20°22	4°10	S 15
M16	19 35 44	23°30'28	3 ≏ 34	18°32	12°25	16° 1	25°40	20°10	23° 5	7°24	25°15	2°12	3°36	20°29	4°12	M16
T 17	19 39 41	24°27'43	17°29	20°41	13°39	16°16	25°34	20° 9	23° 9	7°24	25°16	2°13	3°32	20°35	4°13	T 17
W18	19 43 38	25°24'59	1M 2	22°49	14°52	16°30	25°29	20° 7	23°12	7°25	25°17	2°R13	3°29	20°42	4°14	W18
T 19	19 47 34	26°22'14	14°17	24°57	16° 5	16°44	25°23	20° 5	23°16	7°26	25°18	2°12	3°26	20°49	4°15	T 19
F 20	19 51 31	27°19'30	27°13	27° 5	17°19	16°58	25°17	20° 4	23°19	7°27	25°18	2° 9	3°23	20°55	4°16	F 20
S 21	19 55 27	28°16'46	9 , 754	29°12	18°32	17°10	25°12	20° 2	23°22	7°27	25°19	2° 4	3°20	21° 2	4°17	S 21
S 22	19 59 24	29°14'03	22°22	1 Q 18	19°45	17°22	25° 7	20° 0	23°26	7°28	25°20	1°59	3°16	21° 9	4°18	S 22
M23	20 3 20	0 Ω 11'20	4 云 39	3°23	20°59	17°33	25° 2	19°58	23°29	7°29	25°20	1°54	3°13	21°15	4°19	M23
T 24	20 7 17	1° 8'37	16°46	5°28	22°12	17°44	24°57	19°56	23°33	7°29	25°21	1°48	3°10	21°22	4°20	T 24
W25	20 11 13	2° 5'55	28°45	7°30	23°25	17°54	24°52	19°53	23°37	7°30	25°22	1°44	3° 7	21°29	4°21	W25
T 26	20 15 10	3° 3'14	10≈38	9°32	24°38	18° 3	24°47	19°51	23°40	7°30	25°22	1°41	3° 4	21°35	4°22	T 26
F 27	20 19 7	4° 0'34	22°27	11°32	25°52	18°11	24°43	19°49	23°44	7°31	25°23	1°39	3° 1	21°42	4°22	F 27
S 28	20 23 3	4°57'54	4) (14	13°30	27° 5	18°19	24°39	19°46	23°47	7°31	25°24	1°D39	2°57	21°49	4°23	S 28
S 29	20 27 0	5°55'15	16° 3	15°27	28°18	18°26	24°34	19°44	23°51	7°32	25°24	1°40	2°54	21°55	4°24	S 29
M30	20 30 56	6°52'37	27°55	17°22	29°31	18°32	24°30	19°41	23°54	7°32	25°25	1°41	2°51	22° 2	4°24	M30
T 31	20 34 53	$7\Omega 50'01$	9 Υ 56	19 N 16	0 m) 44	18 米 37	24 × 127	19 米 38	23 N 58	7 8 32	25 8 25	1) 43	2) (48	22≈ 8	4 8 25	T 31

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S 1 M 2	23n 8 23 4)n25 2 1 28 2	21n29 21 48	1 s36 1 23	22n34 22 22	1n17 1 18	11 s15 11 9		23 s10 23 10	0n16 0 16	5 s42 5 42	2s 3 2 3	-	0n42 0 42	-	1 s45 1 45	5n32 13 s54 5 32 13 54	10 s29 10 29	9 s 5 5	16s31 16 28	12n34 12 35	0 s14 0 14
T 3 W 4	23 0 22 55	8 25 3	3 21 2	22 6 22 23		21 57		10 58	4 18	23 10 23 10	0 16 0 16	5 43 5 43	2 3 2 3	14 42	0 42	12 16	1 45 1 45	5 32 13 54	10 28	9 58	16 25 16 22	12 36	0 14 0 14
T 5 F 6 S 7		13 53 4 18 55 4 23 13 5	4 42 2		0 33	21 43 21 29 21 14	1 23	10 52 10 47 10 41		23 10 23 10 23 10	0 16 0 15 0 15	5 43 5 44 5 44		14 41 14 40 14 39		12 16 12 17 12 17	1 45 1 45 1 45	5 32 13 54 5 32 13 54 5 32 13 55	10 29	10 0	16 19 16 16 16 13	12 37	0 14 0 14 0 14
S 8 M 9	22 31 22 24	26 23 5 27 59 4	5 8 2 4 54 2	23 17 23 26	0 9 0n 3	20 58 20 42	1 25 1 26	10 37 10 32	4 31 4 34	23 10 23 10	0 15 0 15	5 45 5 45	2 4 2 5	14 38 14 37	0 42 0 42	12 17 12 18	1 45 1 45	5 32 13 55 5 32 13 55	10 33 10 36	10 3 10 4	16 10 16 7	12 38 12 39	0 14 0 14
T 10 W11 T 12	22 9 22 1	25 26 3 21 22 2	4 21 2 3 29 2 2 23 2	23 37 23 39	0 25 0 35	19 50	1 28 1 29	10 27 10 23 10 19	4 41 4 44	23 10 23 10 23 10	0 15 0 15 0 14	5 46 5 46 5 47	2 5 2 5 2 5	14 35 14 34	0 42 0 42	12 18	1 45 1 45 1 45	5 32 13 55 5 32 13 55 5 32 13 56	10 40 10 42	10 6 10 7	16 2 15 59	12 39 12 40	0 15 0 15 0 15
F 13 S 14	21 43	9 34 0	1 6 2 0 s 1 4 2	23 35		19 12	1 30	10 15 10 11	4 47 4 50	23 9	0 14 0 14	5 48 5 48		14 32	0 42	12 19 12 19	1 46 1 46	5 32 13 50 5 32 13 50	10 43	10 10	15 53	12 41	0 15 0 15
S 15 M16 T 17	21 34 21 25 21 15	3 s 5 4 2	1 32 <mark>2</mark> 2 43 2 3 42 2	23 20	1 3 1 11 1 18	18 33	1 30 1 31 1 31	10 8 10 5 10 2	4 53 4 57 5 0	23 9	0 14 0 14 0 14	5 49 5 50 5 51	2 6	14 31 14 29 14 28	0 42		1 46 1 46 1 46	5 32 13 50 5 32 13 50 5 32 13 5	10 42	10 12	15 47	12 41	0 15 0 15 0 15
T 19	21 4 20 54	20 51 4	4 57 2		1 24 1 30	17 30	1 32 1 32	9 59 9 56	5 3 5 6	23 9	0 14 0 13	5 52 5 53	2 7 2 7	14 26		12 20	1 46 1 46	5 32 13 5° 5 32 13 5°	10 42	10 15	15 38	12 42	0 15 0 15
F 20 S 21	20 43 20 31	27 2 5		21 56	1 34	16 45	1 32 1 33	9 54 9 52	5 9 5 13	23 9	0 13 0 13	5 53 5 54	2 8	14 25 14 24	0 42	12 20	1 46	5 32 13 57 5 32 13 58	10 45	10 18	15 32	12 43	0 15 0 16
S 22 M23 T 24	20 20 20 8 19 55	27 45 4	-	21 32 21 6 20 38	1 42 1 44 1 46	15 59	1 33 1 33 1 33	9 50 9 49 9 47	5 16 5 19 5 22	23 9	0 13 0 13 0 13	5 55 5 56 5 57	2 8	14 23 14 21 14 20	0 42		1 46 1 46 1 46		10 47 8 10 49 8 10 50	10 20	15 26	12 43	0 16 0 16 0 16
W25 T 26		19 24 1	1 53 1		1 47 1 47	14 46	1 33 1 32	9 46 9 46	5 25 5 28	23 9 23 9	0 12 0 12	5 59 6 0	2 9 2 9	14 19 14 18	0 42 0 42	12 21	1 46 1 46	5 32 13 58 5 31 13 59	10 53	10 23	15 17	12 44	0 16 0 16
F 27 S 28	19 2	9 45 0	0 50 1 0n14 1	18 28	1 47	13 56	1 32	9 45 9 45	5 31 5 34	23 9	0 12 0 12	6 1 6 2		14 16	0 42	12 21	1 46	5 31 13 59 5 31 13 59	10 54	10 26	15 12	12 44	0 16 0 16
S 29 M30 T 31	18 48 18 34 18n19	1n19 2	1 18 1 2 20 1 3n16 1	17 16	1 44 1 42 1n40		1 32 1 31 1n31	9 45 9 45 9 s46	5 37 5 40 5 s43		0 12 0 12 0n11	6 3 6 4 6s 6		14 14 14 13 14n12	0 42	12 21 12 21 12n21	1 46 1 47 1 s47	5 31 13 59 5 31 14 (5n31 14s (10 53	10 28	15 6	12 44 12 44 12n44	0 16 0 16 0 s17

 $\label{eq:Julian Day Number = 2406801.5, Delta T = -2.25 sec} \\ Ecliptic obliquity = 23°27'27, Nutation = 0°00'08, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 23°01'46, Lahiri = 22°08'47 \\ \\$

AUGUST 1877 00:00 UT

Day	Sid.t	\odot	D	φ	φ	♂	4	ħ)f(¥	Р	r	Ω	Ç	Š	Day
W 1	20 38 49	8 Ω 47'25	22 Y 10	218 8	1 m) 58	18) (42	24°R23	19°R35	24 Ω 2	7 8 33	25 8 26	1) (44	2) (45	22≈15	4 8 25	W 1
T 2	20 42 46	9°44'51	4840	22°59	3°11	18°45	24 × 19	19) 32	24° 5	7°33	25°26	1°R45	2°42	22°22	4°25	T 2
F 3	20 46 42	10°42'18	17°31	24°48	4°24	18°48	24°16	19°29	24° 9	7°33	25°27	1°45	2°38	22°28	4°26	F 3
S 4	20 50 39	11°39'46	0 Ⅱ 47	26°35	5°37	18°50	24°13	19°26	24°13	7°34	25°27	1°44	2°35	22°35	4°26	S 4
S 5	20 54 36	12°37'15	14°30	28°21	6°50	18°51	24°10	19°23	24°16	7°34	25°28	1°42	2°32	22°42	4°26	S 5
M 6	20 58 32	13°34'46	28°40	0 m y 5	8° 3	18°R52	24° 7	19°20	24°20	7°34	25°28	1°40	2°29	22°48	4°26	M 6
T 7	21 2 29	14°32'18	139516	1°48	9°16	18°51	24° 5	19°17	24°24	7°34	25°28	1°38	2°26	22°55	4°26	T 7
W 8	21 6 25	15°29'52	28°11	3°29	10°30	18°50	24° 2	19°13	24°27	7°34	25°29	1°36	2°22	23° 2	4°R26	W 8
T 9	21 10 22	16°27'26	13 Ω 19	5° 8	11°43	18°48	24° 0	19°10	24°31	7°34	25°29	1°35	2°19	23° 8	4°26	T 9
F 10	21 14 18	17°25'02	28°31	6°46	12°56	18°45	23°58	19° 6	24°35	7°34	25°29	1°D34	2°16	23°15	4°26	F 10
S 11	21 18 15	18°22'39	13 M 36	8°22	14° 9	18°42	23°56	19° 3	24°39	7°R34	25°30	1°34	2°13	23°22	4°26	S 11
S 12	21 22 11	19°20'16	28°26	9°57	15°22	18°37	23°54	18°59	24°42	7°34	25°30	1°35	2°10	23°28	4°26	S 12
M13	21 26 8	20°17'55	12 ≏ 56	11°31	16°35	18°32	23°53	18°56	24°46	7°34	25°30	1°36	2° 7	23°35	4°26	M13
T 14	21 30 5	21°15'35	27° 2	13° 2	17°48	18°26	23°51	18°52	24°50	7°34	25°30	1°37	2° 3	23°42	4°25	T 14
W15	21 34 1	22°13'16	10 M .42	14°33	19° 1	18°19	23°50	18°48	24°54	7°34	25°31	1°37	2° 0	23°48	4°25	W15
T 16	21 37 58	23°10'58	23°57	16° 1	20°14	18°11	23°49	18°44	24°57	7°34	25°31	1°R38	1°57	23°55	4°25	T 16
F 17	21 41 54	24° 8'41	6 ₹ 51	17°28	21°27	18° 3	23°48	18°40	25° 1	7°34	25°31	1°37	1°54	24° 1	4°24	F 17
S 18	21 45 51	25° 6'25	19°25	18°54	22°40	17°54	23°48	18°36	25° 5	7°33	25°31	1°37	1°51	24° 8	4°24	S 18
S 19	21 49 47	26° 4'10	1 궁 43	20°18	23°52	17°44	23°47	18°32	25° 9	7°33	25°31	1°36	1°48	24°15	4°23	S 19
M20	21 53 44	27° 1'56	13°50	21°40	25° 5	17°34	23°47	18°28	25°12	7°33	25°32	1°36	1°44	24°21	4°22	M20
T 21	21 57 40	27°59'44	25°47	23° 1	26°18	17°23	23°D47	18°24	25°16	7°32	25°32	1°35	1°41	24°28	4°22	T 21
W22	22 1 37	28°57'33	7≈39	24°20	27°31	17°11	23°47	18°20	25°20	7°32	25°32	1°35	1°38	24°35	4°21	W22
T 23	22 5 34	29°55'23	19°28	25°37	28°44	16°59	23°48	18°16	25°24	7°32	25°32	1°35	1°35	24°41	4°20	T 23
F 24	22 9 30	0 m 53'15	1) 15	26°52	29°56	16°47	23°48	18°11	25°27	7°31	25°32	1°D35	1°32	24°48	4°19	F 24
S 25	22 13 27	1°51'08	13° 5	28° 6	1 ₽ 9	16°33	23°49	18° 7	25°31	7°31	25°R32	1°R35	1°28	24°55	4°18	S 25
S 26	22 17 23	2°49'02	24°58	29°17	2°22	16°20	23°50	18° 3	25°35	7°30	25°32	1°34	1°25	25° 1	4°17	S 26
M27	22 21 20	3°46'59	6 Ƴ 57	0 ჲ 27	3°34	16° 5	23°51	17°58	25°38	7°30	25°32	1°34	1°22	25° 8	4°16	M27
T 28	22 25 16	4°44'57	19° 5	1°35	4°47	15°51	23°52	17°54	25°42	7°29	25°32	1°34	1°19	25°15	4°15	T 28
W29	22 29 13	5°42'57	1825	2°40	6° 0	15°36	23°54	17°50	25°46	7°29	25°32	1°33	1°16	25°21	4°14	W29
T 30	22 33 9	6°40'58	13°59	3°43	7°12	15°20	23°55	17°45	25°50	7°28	25°32	1°33	1°13	25°28	4°13	T 30
F 31	22 37 6	7 m 39′02	26 8 50	4 Ω 43	8 ≏ 25	15 ∺ 5	23 × 757	17) (41	25 Ω 53	7 8 27	25 8 32	1 米 33	1 米 9	25≈34	4812	F 31

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W 1	18n 5			15n59			1n30	9 s46		23 s 9	-	6s 7		14n11	0n42		1 s47	5n31 14s					0s17
T 2	17 49			15 20	1 33		1 29	9 47	5 48		0 11	6 8	2 10				1 47		0 10 52				0 17
F 3	17 34		-	14 39	1 28		1 28	9 49	5 51	23 9		6 10	2 10	-			1 47		1 10 52				0 17
S 4	17 18	25 28 5	5 16	13 58	1 24	10 49	1 28	9 50	5 54	23 9	0 11	6 11	2 11	14 7	0 42	12 22	1 47	5 30 14	1 10 52	10 34	14 51	12 45	0 17
S 5	17 2	27 39 5	5 8	13 17	1 19	10 21	1 27	9 52	5 56	23 9	0 11	6 13	2 11	14 6	0 42	12 22	1 47	5 30 14	1 10 53	10 35	14 48	12 45	0 17
M 6	16 46	28 9 4	4 42	12 36	1 13	9 53	1 26	9 54	5 59	23 9	0 10	6 14	2 11	14 5	0 42	12 22	1 47	5 30 14	1 10 53	10 36	14 45	12 44	0 17
T 7	16 29	26 43 3	3 57	11 54	1 7	9 24	1 25	9 57	6 1	23 9	0 10	6 16	2 11	14 3	0 42	12 22	1 47	5 30 14	2 10 54	10 37	14 42	12 44	0 17
W 8	16 12	23 23 2	2 54	11 11	1 1	8 56	1 24	9 59	6 3		0 10	6 17	2 11	14 2	0 42	12 21	1 47	5 30 14	2 10 55	10 38	14 39	12 44	0 17
T 9	15 55	18 25 1	1 39	10 29	0 55	8 27	1 22	10 2	6 6		0 10	6 19	2 12	14 1	0 42	12 21	1 47		2 10 55				0 17
F 10	15 38	12 16 (0 17	9 46	0 48	7 58	1 21	10 5	6 8	23 9	0 10	6 20	2 12	14 0	0 42	12 21	1 47	5 29 14	2 10 55	10 40	14 33	12 44	0 18
S 11	15 20	5 26 1	1 s 6	9 4	0 41	7 28	1 20	10 9	6 10	23 9	0 10	6 22	2 12	13 58	0 42	12 21	1 47	5 29 14	10 55	10 42	14 30	12 44	0 18
S 12	15 2	1 s34 2	2 24	8 21	0 33	6 59	1 19	10 12	6 12	23 9	0 10	6 23	2 12	13 57	0 42	12 21	1 47	5 29 14	3 10 55	10 43	14 27	12 44	0 18
M13	14 44	8 20 3	3 30	7 39	0 26	6 29	1 17	10 16	6 14	23 10	0 9	6 25	2 12	13 56	0 42	12 21	1 47	5 29 14	3 10 55	10 44	14 24	12 44	0 18
T 14	14 25	14 29 4	4 21	6 56	0 18	5 59	1 16	10 20	6 15	23 10	0 9	6 26	2 13	13 55	0 42	12 21	1 47	5 29 14	3 10 55	10 45	14 20	12 43	0 18
W15	14 7	19 44 4	4 57	6 14	0 10	5 29	1 14	10 24	6 17	23 10	0 9	6 28	2 13	13 53	0 42	12 21	1 47	5 28 14	10 54	10 46	14 17	12 43	0 18
T 16	13 48	23 51 5	5 15	5 32	0 1	4 59	1 12	10 28	6 18	23 10	0 9	6 30	2 13	13 52	0 42	12 21	1 48	5 28 14	10 54	10 47	14 14	12 43	0 18
F 17	13 29	26 39 5	5 16	4 51	0s 7	4 29	1 11	10 33	6 19	23 10	0 9	6 32	2 13	13 51	0 42	12 21	1 48	5 28 14	10 54	10 48	14 11	12 43	0 18
S 18	13 10	28 3 5	5 2	4 9	0 16	3 58	1 9	10 37	6 21	23 10	0 9	6 33	2 13	13 50	0 42	12 21	1 48	5 28 14	10 55	10 50	14 8	12 42	0 18
S 19	12 50	28 1 4	4 35	3 28	0 25	3 27	1 7	10 42	6 22	23 10	0 8	6 35	2 13	13 48	0 42	12 21	1 48	5 28 14	5 10 55	10 51	14 5	12 42	0 18
M20	12 31	26 38 3	3 55	2 48	0 33	2 57	1 5	10 47	6 22	23 10	0 8	6 37	2 13	13 47	0 42	12 20	1 48	5 27 14	5 10 55	10 52	14 2	12 42	0 19
T 21	12 11	24 3 3	3 6	2 7	0 42	2 26	1 3	10 52	6 23	23 11	0 8	6 38	2 14	13 46	0 42	12 20	1 48	5 27 14	5 10 55	10 53	13 59	12 41	0 19
W22	11 51	20 27 2	2 9	1 28	0 52	1 55	1 1	10 57	6 24	23 11	0 8	6 40	2 14	13 45	0 42	12 20	1 48	5 27 14	5 10 55	10 54	13 56	12 41	0 19
T 23	11 30	16 3 1	1 7	0 49	1 1	1 24	0 59	11 2	6 24	23 11	0 8	6 42	2 14	13 43	0 42	12 20	1 48	5 27 14	5 10 55	10 55	13 53	12 41	0 19
F 24	11 10	11 4 (0 2	0 10	1 10	0 53	0 57	11 7	6 24	23 11	0 8	6 44	2 14	13 42	0 42	12 20	1 48	5 26 14	5 10 55	10 56	13 50	12 40	0 19
S 25	10 49	5 40 1	1n 4	0 s27	1 19	0 22	0 54	11 12	6 24	23 11	0 8	6 46	2 14	13 41	0 42	12 19	1 48	5 26 14	5 10 55	10 58	13 47	12 40	0 19
S 26	10 29	0 4 2	2 6	1 5	1 29	0s 9	0 52	11 17	6 24	23 11	0 7	6 47	2 14	13 40	0 42	12 19	1 48	5 26 14	7 10 55	10 59	13 44	12 40	0 19
M27	10 8	5n35	3 4	1 41	1 38	0 40	0 50	11 23	6 24	23 12	0 7	6 49	2 14	13 38	0 42	12 19	1 48	5 26 14	7 10 55	11 0	13 41	12 39	0 19
T 28	9 47	11 6 3	3 54	2 16	1 48	1 11	0 47	11 28	6 23	23 12	0 7	6 51	2 15	13 37	0 42	12 19	1 48	5 25 14	7 10 56	11 1	13 38	12 39	0 19
W29	9 25	16 16 4	4 35	2 51	1 57	1 42	0 45	11 33	6 22	23 12	0 7	6 53	2 15	13 36	0 42	12 19	1 48	5 25 14	7 10 56	11 2	13 35	12 38	0 19
T 30	9 4	20 51 5	5 3	3 24	2 6	2 13	0 42	11 38	6 21	23 12	0 7	6 55	2 15	13 35	0 42	12 18	1 48	5 25 14	10 56	11 3	13 32	12 38	0 20
F 31	8n42	24n35 5	5n16	3 s57	2s15	2 s44	0n40	11 s43	6 s 2 0	23 s12	0n 7	6s57	2s15	13n33	0n42	12n18	1 s48	5n24 14s	8 10 s 5 6	11s 4	13 s29	12n37	$0\mathrm{s}20$

 $\label{eq:Julian Day Number = 2406832.5, Delta T = -2.28 sec} \\ Ecliptic obliquity = 23°27'27, Nutation = 0°00'09, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 23°01'51, Lahiri = 22°08'51 \\ \\$

SEPTEMBER 1877 00:00 UT

JLI	LLIDEN	10//													00.0	0 0 1
Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(并	В	r	v	Ç	ķ	Day
S 1	22 41 3	8 m 37'08	10耳 2	5 ≏ 41	9 ≙ 37	14°R49	23 х 59	17°R36	25 Ω 57	7°R27	25°R31	1°D33	1 ∺ 6	25≈41	4°R10	S 1
S 2	22 44 59	9°35'16	23°37	6°36	10°50	14) 33	24° 2	17 ₩ 32	26° 1	7 8 26	25 8 31	1) €33	1° 3	25°48	4 8 9	S 2
M 3	22 48 56	10°33'26	7 9 35	7°29	12° 3	14°17	24° 4	17°27	26° 4	7°25	25°31	1°33	1° 0	25°54	4° 8	M 3
T 4	22 52 52	11°31'37	21°57	8°18	13°15	14° 0	24° 7	17°22	26° 8	7°25	25°31	1°34	0°57	26° 1	4° 6	T 4
W 5	22 56 49	12°29'51	$6\Omega 40$	9° 4	14°27	13°44	24° 9	17°18	26°12	7°24	25°31	1°35	0°54	26° 8	4° 5	W 5
T 6	23 0 45	13°28'07	21°39	9°46	15°40	13°27	24°12	17°13	26°15	7°23	25°30	1°35	0°50	26°14	4° 3	T 6
F 7	23 4 42	14°26'24	6Mp46	10°25	16°52	13°11	24°15	17° 9	26°19	7°22	25°30	1°R36	0°47	26°21	4° 1	F 7
S 8	23 8 38	15°24'44	21°52	10°59	18° 5	12°54	24°19	17° 4	26°22	7°21	25°30	1°35	0°44	26°28	4° 0	S 8
S 9	23 12 35	16°23'05	6 ≏ 49	11°29	19°17	12°38	24°22	16°59	26°26	7°20	25°30	1°34	0°41	26°34	3°58	S 9
M10	23 16 32	17°21'27	21°28	11°55	20°29	12°22	24°26	16°55	26°30	7°19	25°29	1°32	0°38	26°41	3°56	M10
T 11	23 20 28	18°19'52	5 M .44	12°15	21°42	12° 6	24°30	16°50	26°33	7°19	25°29	1°30	0°34	26°48	3°55	T 11
W12	23 24 25	19°18'18	19°33	12°31	22°54	11°51	24°34	16°46	26°37	7°18	25°29	1°28	0°31	26°54	3°53	W12
T 13	23 28 21	20°16'46	2 √ 54	12°40	24° 6	11°36	24°38	16°41	26°40	7°17	25°28	1°26	0°28	27° 1	3°51	T 13
F 14	23 32 18	21°15'15	15°50	12°R44	25°18	11°21	24°42	16°36	26°44	7°16	25°28	1°D25	0°25	27° 8	3°49	F 14
S 15	23 36 14	22°13'46	28°24	12°41	26°31	11° 7	24°47	16°32	26°47	7°14	25°27	1°25	0°22	27°14	3°47	S 15
S 16	23 40 11	23°12'19	10 궁 39	12°32	27°43	10°53	24°51	16°27	26°51	7°13	25°27	1°26	0°19	27°21	3°45	S 16
M17	23 44 7	24°10'53	22°41	12°15	28°55	10°39	24°56	16°23	26°54	7°12	25°27	1°28	0°15	27°27	3°43	M17
T 18	23 48 4	25° 9'29	4≈34	11°52	0 M 7	10°27	25° 1	16°18	26°58	7°11	25°26	1°29	0°12	27°34	3°41	T 18
W19	23 52 1	26° 8'07	16°23	11°22	1°19	10°14	25° 6	16°14	27° 1	7°10	25°26	1°31	0° 9	27°41	3°39	W19
T 20	23 55 57	27° 6'47	28°10	10°44	2°31	10° 2	25°12	16° 9	27° 4	7° 9	25°25	1°R32	0° 6	27°47	3°36	T 20
F 21	23 59 54	28° 5'28	10 米 0	10° 0	3°43	9°51	25°17	16° 5	27° 8	7° 8	25°25	1°31	0° 3	27°54	3°34	F 21
S 22	0 3 50	29° 4'11	21°54	9°10	4°55	9°41	25°23	16° 0	27°11	7° 6	25°24	1°30	29≈59	28° 1	3°32	S 22
S 23	0 7 47	0₽ 2'56	3 ℃ 57	8°13	6° 7	9°31	25°29	15°56	27°14	7° 5	25°23	1°27	29°56	28° 7	3°30	S 23
M24	0 11 43	1° 1'43	16° 8	7°12	7°18	9°22	25°35	15°52	27°18	7° 4	25°23	1°23	29°53	28°14	3°27	M24
T 25	0 15 40	2° 0'32	28°29	6° 8	8°30	9°13	25°41	15°47	27°21	7° 3	25°22	1°17	29°50	28°21	3°25	T 25
W26	0 19 36	2°59'24	118 2	5° 1	9°42	9° 6	25°47	15°43	27°24	7° 1	25°22	1°12	29°47	28°27	3°23	W26
T 27	0 23 33	3°58'17	23°48	3°54	10°54	8°59	25°54	15°39	27°27	7° 0	25°21	1° 7	29°44	28°34	3°20	T 27
F 28	0 27 30	4°57'13	6 Ⅱ 47	2°48	12° 5	8°52	26° 0	15°34	27°31	6°58	25°20	1° 3	29°40	28°41	3°18	F 28
S 29	0 31 26	5°56'12	20° 2	1°44	13°17	8°47	26° 7	15°30	27°34	6°57	25°20	1° 0	29°37	28°47	3°15	S 29
S 30	0 35 23	6 ₽ 55'12	3934	0 ჲ 46	14ML28	8) 42	26 × 14	15 ∺ 26	27 £ 37	6 8 56	25 8 19	0°D59	29≈34	28≈54	3 8 13	S 30

Day	0	D	ğ	φ	♂	4	ħ)Å(卉	Р	v	v	Ç	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
S 1	8n21	27n 9 5n14	4s28 2s25	5 3 s 15 0 n 37 1	1 s48 6 s19	23 s13 On 7	6s58 2s15	13n32 0n42	12n18 1 s48	5n24 14s 8	10 s56	11s 5	13 s26	12n37 0 s20
S 2						23 13 0 6			12 18 1 49		10 56			12 36 0 20
M 3	7 37		5 27 2 42			23 13 0 6					10 56			12 36 0 20
T 4 W 5		25 0 3 23 20 47 2 14	5 55 2 51 6 21 3 0			23 13 0 6		13 28 0 42 13 27 0 42			10 56 10 55			12 35 0 20 12 34 0 20
T 6						23 14 0 6					10 55	-	-	
F 7	6 8	8 35 0s29			-	23 14 0 6				5 22 14 10				12 33 0 20
S 8	5 45	1 32 1 50	7 28 3 23	8 6 50 0 17 1	2 20 6 5	23 14 0 6	7 11 2 15	13 23 0 42	12 16 1 49	5 22 14 10	10 55	11 13	13 4	12 32 0 20
S 9	5 23	5 s 3 1 3 3	7 46 3 30	7 20 0 14 1	2 24 6 2	23 15 0 5	7 13 2 16	13 22 0 42	12 15 1 49	5 22 14 10	10 56	11 14	13 1	12 32 0 21
M10	5 0	12 7 4 2	8 2 3 37			23 15 0 5	7 15 2 16	-		5 22 14 10				
T 11	4 37	17 55 4 45	8 16 3 43			23 15 0 5					10 57			
W12 T 13	4 14 3 51		0 27 3 .0			23 16 0 5 23 16 0 5					10 58 10 58			
F 14						23 16 0 5					10 58			
S 15						23 17 0 5			12 13 1 49	5 20 14 11				
S 16	2 42	27 6 4 5	8 38 4 0	10 47 0 8 1	2 43 5 39	23 17 0 5	7 26 2 16	13 14 0 42	12 13 1 49	5 20 14 12	10 58	11 22	12 39	12 27 0 21
M17	2 19	24 48 3 18	8 32 4 1	1 11 16 0 11 1	2 44 5 35	23 17 0 4	7 28 2 16	13 13 0 42	12 12 1 49	5 19 14 12	10 58	11 23	12 36	12 26 0 21
T 18	1 56					23 18 0 4	7 30 2 16			5 19 14 12				
W19		17 15 1 23				23 18 0 4	7 31 2 16	-		5 19 14 13				
T 20 F 21	1 9 0 46	12 25 0 19 7 7 0n46				23 18 0 4 23 18 0 4	7 33 2 16 7 35 2 16			5 18 14 13 5 18 14 13	10 56			
S 22	0 22	1 32 1 50	6 59 3 39			23 19 0 4			12 11 1 49	5 18 14 13				
S 23	0 s 1	4n 9 2 49	6 28 3 29	9 14 3 0 31 1	2 47 5 10	23 19 0 4	7 38 2 16	13 6 0 42	12 10 1 50	5 17 14 13	10 58	11 30	12 17	12 21 0 22
M24	0 25	9 44 3 40	5 53 3 18	8 14 30 0 34 1		23 19 0 4	7 40 2 16	13 5 0 42	12 9 1 50	5 17 14 14	11 0	11 31	12 14	12 20 0 22
T 25	0 48	15 2 4 23	5 15 3 4	1 14 56 0 37 1	2 45 5 (23 20 0 3	7 42 2 16	13 4 0 42	12 9 1 50	5 17 14 14	11 1	11 32	12 11	12 19 0 22
W26		19 47 4 53				23 20 0 3	7 43 2 16			5 16 14 14				12 18 0 22
T 27		-	3 52 2 52			23 20 0 3	7 45 2 16	-		5 16 14 14	-		-	12 17 0 22
F 28 S 29		26 33 5 10 27 59 4 55				23 21 0 3 23 21 0 3	7 47 2 16 7 48 2 16	-		5 16 14 15 5 15 14 15		11 36		12 16 0 22 12 15 0 22
S 30	2 s45	27n48 4n23	1 s45 1 s34	1 17s 4 0s54 1	2 s35 4 s37	23 s21 On 3	7s50 2s16	12n58 0n42	12n 6 1 s50	5n15 14s15	11s 8	11 s38	11 s55	12n14 0s23

Julian Day Number = 2406863.5, Delta T = -2.32 sec Ecliptic obliquity = $23^{\circ}27'27$, Nutation = $0^{\circ}00'09$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $23^{\circ}01'55$, Lahiri = $22^{\circ}08'55$

OCTOBER 1877 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂ [™]	24	ħ)∤(¥	В	R	Ω	Ç	ķ	Day
M 1	0 39 19	7 £ 54'15	17922	29°R53	15 M .40	8°R38	26×21	15°R22	27Ω40	6°R54	25°R18	0 ¥ 59	29≈31	29≈ 0	3°R10	M 1
T 2	0 43 16	8°53'20	1822	29 m 8	16°51	8)(35	26°28	15 K22	27°43	6 8 53	25 8 18	1° 0	29°28	29° 7	3 8 8	T 2
W 3	0 47 12	9°52'28	15°53	28°32	18° 3	8°32	26°35	15°14	27°46	6°51	25°17	1° 2	29°25	29°14	3° 5	W 3
T 4	0 51 9	10°51'38	0m/31	28° 6	19°14	8°31	26°43	15°10	27°49	6°50	25°16	1°R 3	29°21	29°20	3° 2	T 4
F 5	0 55 5	11°50'50	15°19	27°50	20°26	8°30	26°51	15° 6	27°52	6°48	25°15	1° 2	29°18	29°27	3° 0	F 5
S 6	0 59 2	12°50'04	0 ჲ 11	27°D45	21°37	8°D30	26°58	15° 2	27°55	6°47	25°15	0°59	29°15	29°34	2°57	S 6
S 7	1 2 59	13°49'20	14°59	27°50	22°48	8°31	27° 6	14°59	27°58	6°45	25°14	0°54	29°12	29°40	2°54	S 7
M 8	1 6 5 5	14°48'39	29°34	28° 6	24° 0	8°32	27°14	14°55	28° 1	6°44	25°13	0°48	29° 9	29°47	2°51	M 8
T 9	1 10 52	15°47'59	13 M .51	28°32	25°11	8°34	27°22	14°51	28° 3	6°42	25°12	0°40	29° 5	29°54	2°49	T 9
W10	1 14 48	16°47'21	27°43	29° 8	26°22	8°38	27°31	14°48	28° 6	6°41	25°11	0°33	29° 2	0 米 0	2°46	W10
T 11	1 18 45	17°46'46	11 × 7 9	29°52	27°33	8°42	27°39	14°44	28° 9	6°39	25°11	0°27	28°59	0° 7	2°43	T 11
F 12	1 22 41	18°46'12	24° 9	0 ჲ 45	28°44	8°46	27°48	14°41	28°12	6°38	25°10	0°22	28°56	0°14	2°40	F 12
S 13	1 26 38	19°45'40	6 පි 46	1°45	29°55	8°52	27°56	14°38	28°14	6°36	25° 9	0°19	28°53	0°20	2°37	S 13
S 14	1 30 34	20°45'09	19° 2	2°52	1 √ 6	8°58	28° 5	14°34	28°17	6°35	25° 8	0°D18	28°50	0°27	2°35	S 14
M15	1 34 31	21°44'41	1≈ 4	4° 4	2°17	9° 5	28°14	14°31	28°20	6°33	25° 7	0°18	28°46	0°33	2°32	M15
T 16	1 38 28	22°44'14	12°55	5°22	3°28	9°13	28°23	14°28	28°22	6°31	25° 6	0°19	28°43	0°40	2°29	T 16
W17	1 42 24	23°43'49	24°43	6°44	4°38	9°22	28°32	14°25	28°25	6°30	25° 5	0°R20	28°40	0°47	2°26	W17
T 18	1 46 21	24°43'25	6) €31	8°10	5°49	9°31	28°42	14°22	28°27	6°28	25° 4	0°20	28°37	0°53	2°23	T 18
F 19	1 50 17	25°43'04	18°24	9°38	6°59	9°41	28°51	14°19	28°30	6°26	25° 3	0°18	28°34	1° 0	2°20	F 19
S 20	1 54 14	26°42'44	0 Υ 26	11°10	8°10	9°51	29° 1	14°16	28°32	6°25	25° 2	0°14	28°31	1° 7	2°17	S 20
S 21	1 58 10	27°42'26	12°39	12°43	9°20	10° 3	29°10	14°14	28°34	6°23	25° 1	0° 8	28°27	1°13	2°14	S 21
M22	2 2 7	28°42'10	25° 5	14°18	10°31	10°15	29°20	14°11	28°37	6°21	25° 0	29≈59	28°24	1°20	2°11	M22
T 23	2 6 3	29°41'56	7 8 44	15°55	11°41	10°27	29°30	14° 8	28°39	6°20	24°59	29°48	28°21	1°27	2° 8	T 23
W24	2 10 0	0 M .41'44	20°37	17°32	12°51	10°41	29°40	14° 6	28°41	6°18	24°58	29°37	28°18	1°33	2° 5	W24
T 25	2 13 56	1°41'35	3 ∏ 43	19°11	14° 1	10°55	29°50	14° 4	28°43	6°16	24°57	29°26	28°15	1°40	2° 3	T 25
F 26	2 17 53	2°41'27	17° 1	20°50	15°12	11° 9	0중 0	14° 1	28°45	6°15	24°56	29°17	28°11	1°47	2° 0	F 26
S 27	2 21 50	3°41'22	0929	22°29	16°21	11°24	0°11	13°59	28°48	6°13	24°55	29°10	28° 8	1°53	1°57	S 27
S 28	2 25 46	4°41'18	14° 8	24° 9	17°31	11°40	0°21	13°57	28°50	6°11	24°54	29° 6	28° 5	2° 0	1°54	S 28
M29	2 29 43	5°41'17	27°57	25°49	18°41	11°56	0°31	13°55	28°52	6°10	24°53	29° 4	28° 2	2° 7	1°51	M29
T 30	2 33 39	6°41'18	11055	27°28	19°51	12°13	0°42	13°53	28°53	6° 8	24°52	29°D 4	27°59	2°13	1°48	T 30
W31	2 37 36	7 M 41'22	26 Ω 3	29 <u>₽</u> 8	21 🗷 1	12 米 31	0 ට 53	13 米 52	28 Ω 55	6 8	24 8 51	29°R 4	27≈56	2) 20	1 8 45	W31

3	decl lat 5n53 3n36 2 21 2 34 7 23 1 22 1 21 0 3 4 36 1s17 2s23 2 32 0 13 3 35 5 27 4 24	0 28 0 : 0n 4 0 : 0 33 0 0 56 0n 1 14 0 : 1 27 0 : 1	53 17 52 1 1 33 18 15 1 5 14 18 38 1 8 1 5 19 1 1 11 22 19 23 1 15	12 29 4 27 12 25 4 22 12 21 4 17 12 17 4 12	decl lat 23 s22 0n 3 23 22 0 3 23 22 0 2 23 23 0 2 23 23 0 2 23 23 0 2 23 23 0 2 23 23 0 2	7 53 2 16 7 54 2 15 7 56 2 15	12 56 0 42 12 55 0 42 12 54 0 42	12 5 1 50	decl lat 5n15 14s15 5 14 14 15 5 14 14 15 5 14 14 16	11 7 11 4	11 s52 11 49 11 46	12 12 0 23
3 32 22 3 55 17 4 18 11 4 41 4 5 4 2 5 27 9 5 50 15 6 13 20	2 21 2 34 7 23 1 22 1 21 0 3 4 36 1 s17 2 s23 2 32 9 13 3 35	0 28 0 : 0n 4 0 : 0 33 0 0 56 0n 1 14 0 : 1 27 0 : 1	53 17 52 1 1 33 18 15 1 5 14 18 38 1 8 1 5 19 1 1 11 22 19 23 1 15	12 29 4 27 12 25 4 22 12 21 4 17 12 17 4 12	23 22 0 3 23 22 0 2 23 23 0 2 23 23 0 2	7 53 2 16 7 54 2 15 7 56 2 15	12 56 0 42 12 55 0 42 12 54 0 42	12 6 1 50 12 5 1 50	5 14 14 15 5 14 14 15	11 7 11 40 11 7 11 41	11 49 11 46	12 12 0 23
4 18 11 4 41 4 5 4 2 5 27 9 5 50 15 6 13 20	1 21 0 3 4 36 1s17 2s23 2 32 9 13 3 35	0 33 0 0 56 0n 1 14 0 2 1 27 0 3	14 18 38 1 8 n 5 19 1 1 11 22 19 23 1 15	12 21 4 17 12 17 4 12	23 23 0 2 23 23 0 2	7 56 2 15	12 54 0 42		-	-		12 11 0 23
5 27 9 5 50 15 6 13 20	3 35	1 27 0 3		12 13 4 8	123 231 0 2		12 53 0 43		5 13 14 16	11 7 11 43	11 40	12 9 0 23
5 13 20		1 34 0 :	38 19 45 1 18 53 20 6 1 21		23 24 0 2 23 24 0 2	8 0 2 15	12 52 0 43 12 51 0 43 12 50 0 43	12 3 1 50		11 8 11 45 11 10 11 46 11 12 11 47		12 7 0 23
	4 40 5 8	1 36 1 1 32 1	6 20 27 1 25 18 20 47 1 28	11 58 3 53 11 52 3 48	23 24 0 2 23 24 0 2	8 3 2 15 8 4 2 15	12 49 0 43 12 49 0 43	12 2 1 50 12 1 1 50	5 12 14 17 5 11 14 17	11 15 11 48 11 17 11 49	3 11 27 0 11 24	12 5 0 23
7 22 28 7 44 27	8 2 4 43 7 25 4 9	1 11 1 3 0 54 1 4	37 21 25 1 34 44 21 44 1 37	11 40 3 39 11 33 3 34	23 25 0 1 23 25 0 1	8 6 2 15 8 8 2 15	12 47 0 43 12 46 0 43	12 0 1 50 12 0 1 50	5 11 14 17 5 10 14 17	11 21 11 51 11 22 11 52	11 18 2 11 14	12 2 0 24 12 1 0 24
8 29 22 8 51 18 9 13 13	2 24 2 31 3 25 1 32 3 46 0 30	0 8 1 3 0s19 1 3 0 50 2	55 22 20 1 44 58 22 37 1 47 1 22 53 1 50	11 20 3 25 11 13 3 20 11 5 3 16	23 26 0 1 23 26 0 1 23 26 0 1	8 10 2 14 8 11 2 14 8 12 2 14	12 44 0 43 12 43 0 43 12 42 0 43	11 59 1 50 11 58 1 50 11 58 1 50	5 10 14 17 5 9 14 18 5 9 14 18	11 22 11 55 11 22 11 56 11 22 11 57	5 11 8 5 11 5 7 11 2	11 59 0 24 11 58 0 24 11 57 0 24
9 57 3 0 18 2	3 7 1 35 2n32 2 34	1 57 2 2 33 2	2 23 24 1 56 2 23 38 1 59	10 49 3 7 10 41 3 2	23 26 0 1 23 27 0 1	8 14 2 14 8 15 2 14	12 41 0 43 12 40 0 43	11 57 1 50 11 56 1 50	5 8 14 18 5 8 14 18	11 22 11 59 11 24 12 (10 55 10 52	11 55 0 24 11 54 0 24
1 1 13 1 22 18	3 35 4 10 3 32 4 42	3 49 1 : 4 29 1 :	59 24 5 2 4 56 24 18 2 7	10 24 2 53 10 16 2 49	23 27 0 0 23 27 0 0	8 17 2 14 8 18 2 14	12 38 0 43 12 38 0 43	11 55 1 50 11 54 1 50	5 7 14 18 5 7 14 18	11 29 12 2 11 33 12 3	10 46 10 43	11 51 0 25 11 50 0 25
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27 25 4 9 0 54 1 44 21 44 1 37 11 33 3 34 23 25 0 1 8 8 8 2 15 12 46 0 43 12 0 1 50 5 10 14 17 7 25 28 3 24 0 33 1 50 22 2 1 41 11 27 3 29 23 25 0 1 8 8 9 2 15 12 45 0 43 11 59 1 50 5 10 14 17 7 25 28 3 24 0 33 1 50 22 2 1 44 11 20 3 25 23 26 0 1 8 8 10 2 14 12 44 0 43 11 59 1 50 5 10 14 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	59 27 8 5 3 1 24 1 28 21 6 1 31 11 46 3 44 23 25 0 2 8 5 2 15 12 48 0 43 12 1 1 50 5 11 14 17 11 19 11 50 22 28 2 4 43 1 11 1 37 21 25 1 34 11 40 3 39 23 25 0 1 8 8 6 2 15 12 47 0 43 12 0 1 50 5 11 14 17 11 19 11 50 44 27 25 4 9 0 54 1 44 21 44 1 37 11 33 3 34 23 25 0 1 8 8 8 2 15 12 46 0 43 12 0 1 50 5 10 14 17 11 22 11 5	59 27 8 5 3 1 24 1 28 21 6 1 31 11 46 3 44 23 25 0 2 8 5 2 15 12 48 0 43 12 1 1 50 5 11 14 17 11 19 11 50 11 21 22 28 2 4 4 3 1 11 1 37 21 25 1 34 11 40 3 39 23 25 0 1 8 8 2 15 12 47 0 43 12 0 1 50 5 10 14 17 11 21 11 51 11 18 44 27 25 4 9 0 54 1 44 21 44 1 37 11 33 3 34 23 25 0 1 8 8 2 15 12 46 0 43 12 0 1 50 5 10 14 17 11 22 11 52 11 14 17 29 22 24 2 31 0 8 1 55 22 20 1 44 11 20 3 25 23 26 0 1 8 10 2 14 12 44 0 43 11 59 1 50 5 10 14 17 11 22 11 55 11 8 11 18 18 12 11 18 18 12 11 18 18 19 11 10 10

Julian Day Number = 2406893.5, Delta T = -2.35 sec Ecliptic obliquity = $23^{\circ}27'27$, Nutation = $0^{\circ}00'08$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $23^{\circ}01'59$, Lahiri = $22^{\circ}09'00$

NOVEMBER 1877 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ)Å(¥	Р	ß	Ω	Ç	ę,	Day
T 1	2 41 32	8ML41'27	10 m)20	0 M .48	22 × 10	12) (49	1	13°R50	28 Ω 57	6°R 5	24°R50	29°R 4	27≈52	2 ∺ 26	1°R42	T 1
F 2	2 45 29	9°41'34	24°44	2°27	23°20	13° 7	1°14	13) 48	28°59	6 8 3	24849	29≈≈ 2	27°49	2°33	1 8 39	F 2
S 3	2 49 25	10°41'44	9 ≏ 11	4° 6	24°29	13°26	1°25	13°47	29° 1	6° 1	24°48	28°57	27°46	2°40	1°36	S 3
S 4	2 53 22	11°41'55	23°36	5°45	25°38	13°46	1°37	13°45	29° 2	5°59	24°47	28°49	27°43	2°46	1°33	S 4
M 5	2 57 19	12°42'09	7 M 53	7°23	26°47	14° 6	1°48	13°44	29° 4	5°58	24°46	28°38	27°40	2°53	1°30	M 5
T 6	3 1 15	13°42'24	21°56	9° 1	27°56	14°26	1°59	13°43	29° 6	5°56	24°44	28°26	27°37	3° 0	1°27	T 6
W 7	3 5 12	14°42'42	5 ₹ 41	10°39	29° 5	14°47	2°10	13°42	29° 7	5°54	24°43	28°14	27°33	3° 6	1°25	W 7
T 8	3 9 8	15°43'00	19° 4	12°17	0 궁 14	15° 9	2°22	13°41	29° 9	5°53	24°42	28° 3	27°30	3°13	1°22	T 8
F 9	3 13 5	16°43'21	2 る 3	13°54	1°23	15°31	2°33	13°40	29°10	5°51	24°41	27°53	27°27	3°20	1°19	F 9
S 10	3 17 1	17°43'43	14°40	15°31	2°31	15°53	2°45	13°39	29°12	5°50	24°40	27°47	27°24	3°26	1°16	S 10
S 11	3 20 58	18°44'06	26°57	17° 7	3°40	16°16	2°57	13°38	29°13	5°48	24°39	27°43	27°21	3°33	1°13	S 11
M12	3 24 55	19°44'31	9≈ 0	18°44	4°48	16°39	3° 9	13°38	29°14	5°46	24°38	27°41	27°17	3°40	1°11	M12
T 13	3 28 51	20°44'57	20°52	20°19	5°56	17° 3	3°20	13°37	29°16	5°45	24°37	27°41	27°14	3°46	1°8	T 13
W14	3 32 48	21°45'24	2) (40	21°55	7° 4	17°27	3°32	13°37	29°17	5°43	24°36	27°41	27°11	3°53	1° 5	W14
T 15	3 36 44	22°45'53	14°29	23°30	8°12	17°52	3°44	13°37	29°18	5°41	24°34	27°40	27° 8	3°59	1° 2	T 15
F 16	3 40 41	23°46'23	26°24	25° 5	9°20	18°17	3°56	13°37	29°19	5°40	24°33	27°37	27° 5	4° 6	1° 0	F 16
S 17	3 44 37	24°46'54	8 Y 30	26°40	10°27	18°42	4° 9	13°D37	29°20	5°38	24°32	27°32	27° 2	4°13	0°57	S 17
S 18	3 48 34	25°47'27	20°51	28°15	11°35	19° 8	4°21	13°37	29°21	5°37	24°31	27°24	26°58	4°19	0°55	S 18
M19	3 52 30	26°48'01	3 8 30	29°49	12°42	19°34	4°33	13°37	29°22	5°35	24°30	27°13	26°55	4°26	0°52	M19
T 20	3 56 27	27°48'36	16°26	1 ₹ 23	13°49	20° 0	4°45	13°37	29°23	5°34	24°29	27° 0	26°52	4°33	0°49	T 20
W21	4 0 23	28°49'13	29°41	2°57	14°56	20°27	4°58	13°38	29°23	5°32	24°28	26°47	26°49	4°39	0°47	W21
T 22	4 4 20	29°49'52	13 Ⅱ 11	4°31	16° 2	20°54	5°10	13°38	29°24	5°31	24°27	26°34	26°46	4°46	0°44	T 22
F 23	4 8 17	0 ₮ 50'32	26°55	6° 5	17° 9	21°21	5°23	13°39	29°25	5°29	24°25	26°22	26°43	4°53	0°42	F 23
S 24	4 12 13	1°51'13	109647	7°38	18°15	21°48	5°36	13°39	29°26	5°28	24°24	26°14	26°39	4°59	0°40	S 24
S 25	4 16 10	2°51'56	24°46	9°12	19°21	22°16	5°48	13°40	29°26	5°26	24°23	26° 8	26°36	5° 6	0°37	S 25
M26	4 20 6	3°52'40	8 Ω 48	10°45	20°27	22°44	6° 1	13°41	29°27	5°25	24°22	26° 5	26°33	5°13	0°35	M26
T 27	4 24 3	4°53'26	22°52	12°18	21°33	23°13	6°14	13°42	29°27	5°23	24°21	26°D 4	26°30	5°19	0°32	T 27
W28	4 27 59	5°54'14	6 M 57	13°51	22°38	23°42	6°27	13°43	29°27	5°22	24°20	26°R 4	26°27	5°26	0°30	W28
T 29	4 31 56	6°55'03	21° 1	15°24	23°43	24°11	6°40	13°44	29°28	5°20	24°19	26° 4	26°23	5°33	0°28	T 29
F 30	4 35 53	7 ₹ 755'53	5 ₾ 5	16 ∡ 757	24 중 48	24) (40	6 ප 53	13) (46	$29\Omega 28$	5 8 19	24 8 18	26≈ 1	26≈20	5 ∺ 39	0 8 26	F 30

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T 1 F 2 S 3	14 s25 14 44 15 3	0 5 2 12	11 17 1	3 25 s42 2 s29 7 25 48 2 31 1 25 53 2 32	8 38 2 9	23 s28	8 24 2 12		11n49 1 s50 11 49 1 50 11 48 1 50	5 4 14 19	11 s48 12 s13 11 49 12 14 11 51 12 15	10 11	
S 4 M 5 T 6 W 7 T 8	15 58 16 16	18 35 4 42 23 5 4 59 26 10 4 59	13 14 0 4 13 52 0 4	1 26 4 2 38 5 26 7 2 39	8 5 1 58 7 54 1 55 7 42 1 51	23 28 0 1	8 25 2 12 8 26 2 12 8 26 2 12 8 26 2 11 8 26 2 11	12 29 0 44 12 29 0 44 12 28 0 44	11 46 1 50	5 3 14 19 5 3 14 19 5 3 14 19		10 1 9 58 9 54	11 37 0 26 11 36 0 26 11 35 0 26 11 34 0 26 11 33 0 26
F 9 S 10		27 36 4 10	15 41 0 2		7 19 1 45	23 27 0 1 23 27 0 2	8 27 2 11	12 27 0 44	11 45 1 50 11 44 1 50	5 2 14 19	12 13 12 22 12 15 12 23	9 48	11 32 0 26 11 31 0 26
S 11 M12 T 13 W14 T 15 F 16 S 17		19 35 1 37 15 7 0 36 10 7 0n26 4 46 1 28 0n48 2 26	17 24 0 17 56 0s 18 28 0 1 18 58 0 1 19 28 0 2	3 26 3 2 48	6 44 1 35 6 31 1 32 6 19 1 29 6 7 1 25 5 54 1 22	23 27 0 2 23 26 0 2 23 26 0 2 23 26 0 2	8 27 2 10 8 27 2 10 8 27 2 10	12 26 0 44 12 26 0 44 12 25 0 44 12 25 0 44 12 25 0 44		5 1 14 19 5 1 14 19 5 1 14 19 5 1 14 19 5 0 14 19	12 17 12 24 12 17 12 25 12 17 12 26 12 17 12 27 12 18 12 29 12 19 12 30 12 20 12 31	9 38 9 35 9 32 9 29 9 25	11 30 0 26 11 29 0 26 11 28 0 26 11 27 0 27 11 26 0 27 11 25 0 27 11 24 0 27
S 18 M19 T 20 W21 T 22 F 23 S 24	19 27 19 41 19 55 20 8 20 21	17 0 4 35 21 28 4 55 24 58 5 0 27 9 4 48 27 44 4 19	20 52 0 4 21 17 0 5 21 42 0 5 22 6 1 22 28 1		5 16 1 14 5 3 1 11 4 50 1 8 4 37 1 5 4 24 1 3	23 26 0 2 23 25 0 2 23 25 0 3 23 24 0 3 23 24 0 3 23 24 0 3 23 24 0 3 23 23 0 3	8 26 2 9 8 26 2 9 8 26 2 9 8 25 2 9 8 25 2 9	12 24 0 44 12 23 0 44 12 23 0 44 12 23 0 44 12 23 0 44	11 40 1 50 11 40 1 50 11 39 1 50 11 39 1 50 11 38 1 50 11 38 1 50 11 37 1 50	5 0 14 19 5 0 14 19 4 59 14 19 4 59 14 19 4 59 14 19	12 23 12 32 12 27 12 33 12 31 12 34 12 36 12 35 12 40 12 36 12 44 12 37 12 47 12 38	9 16 9 13 9 9 9 6 9 3	11 23 0 27 11 22 0 27 11 21 0 27 11 20 0 27 11 19 0 27 11 18 0 27 11 17 0 27
S 25 M26 T 27 W28 T 29 F 30		19 31 1 30 14 10 0 17 8 5 0s57 1 36 2 8	23 10 1 2 23 29 1 2 23 47 1 3 24 4 1 3 24 19 1 4 24s34 1s4	6 24 40 2 48 1 24 29 2 47 6 24 18 2 46	3 43 0 55 3 30 0 52 3 16 0 50 3 3 0 48	23 23 0 3 23 22 0 3 23 22 0 3 23 21 0 3 23 21 0 3 23 21 0 3 23 s20 0s 3	8 23 2 8 8 23 2 8 8 22 2 8 8 22 2 8	12 22 0 45 12 22 0 45 12 22 0 45 12 22 0 45		4 58 14 19 4 58 14 19 4 58 14 19 4 58 14 19	12 49 12 39 12 50 12 40 12 50 12 42 12 50 12 43 12 50 12 44 12 s51 12 s45	8 53 8 50 8 47 8 43	11 16 0 27 11 15 0 27 11 14 0 27 11 14 0 28 11 13 0 28 11n12 0s28

Julian Day Number = 2406924.5, Delta T = -2.39 sec Ecliptic obliquity = $23^{\circ}27'27$, Nutation = $0^{\circ}00'08$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $23^{\circ}02'03$, Lahiri = $22^{\circ}09'04$

DECEMBER 1877 00:00 UT

Day	Sid.t	0	D	ğ	ρ	ď	4	ħ)∤(¥	В	n	ß	Ç	ķ	Day
S 1	4 39 49	8 ,7 56'45	19 ♀ 7	18 × 30	25 궁 53	25 ∺ 9	7중 6	13 ∺ 47	29 Ω 28	5°R18	24°R17	25°R56	26≈17	5) (46	0°R24	S 1
S 2	4 43 46	9°57'39	3M 5	20° 3	26°57	25°39	7°19	13°49	29°29	5 8 16	24815	25≈48	26°14	5°52	0821	S 2
M 3	4 47 42	10°58'33	16°55	21°36	28° 1	26° 9	7°32	13°50	29°29	5°15	24°14	25°38	26°11	5°59	0°19	M 3
T 4	4 51 39	11°59'29	0 ∡ ³35	23° 8	29° 5	26°39	7°45	13°52	29°29	5°14	24°13	25°25	26° 8	6° 6	0°17	T 4
W 5	4 55 35	13° 0'26	14° 0	24°41	0≈ 8	27°10	7°58	13°54	29°R29	5°13	24°12	25°13	26° 4	6°12	0°15	W 5
T 6	4 59 32	14° 1'24	27° 8	26°13	1°12	27°41	8°11	13°56	29°29	5°11	24°11	25° 1	26° 1	6°19	0°13	T 6
F 7	5 3 28	15° 2'23	9 云 58	27°45	2°15	28°12	8°25	13°58	29°29	5°10	24°10	24°51	25°58	6°26	0°12	F 7
S 8	5 7 25	16° 3'23	22°29	29°17	3°17	28°43	8°38	14° 0	29°28	5° 9	24° 9	24°44	25°55	6°32	0°10	S 8
S 9	5 11 22	17° 4'24	4≈44	0 云 49	4°19	29°14	8°51	14° 3	29°28	5° 8	24° 8	24°39	25°52	6°39	0° 8	S 9
M10	5 15 18	18° 5'25	16°46	2°21	5°21	29°46	9° 5	14° 5	29°28	5° 7	24° 7	24°37	25°49	6°46	0° 6	M10
T 11	5 19 15	19° 6'26	28°38	3°52	6°23	o Υ 18	9°18	14° 7	29°28	5° 5	24° 6	24°D37	25°45	6°52	0° 4	T 11
W12	5 23 11	20° 7'28	10) (26	5°22	7°24	0°50	9°32	14°10	29°27	5° 4	24° 5	24°37	25°42	6°59	0° 3	W12
T 13	5 27 8	21° 8'31	22°14	6°52	8°25	1°22	9°45	14°13	29°27	5° 3	24° 4	24°R38	25°39	7° 6	0° 1	T 13
F 14	5 31 4	22° 9'34	4 Υ 9	8°22	9°25	1°54	9°59	14°15	29°26	5° 2	24° 3	24°37	25°36	7°12	29 Y 59	F 14
S 15	5 35 1	23°10'38	16°16	9°51	10°25	2°27	10°13	14°18	29°26	5° 1	24° 2	24°34	25°33	7°19	29°58	S 15
S 16	5 38 57	24°11'42	28°40	11°19	11°24	2°59	10°26	14°21	29°25	5° 0	24° 1	24°29	25°29	7°26	29°57	S 16
M17	5 42 54	25°12'46	11823	12°45	12°23	3°32	10°40	14°24	29°25	4°59	24° 0	24°21	25°26	7°32	29°55	M17
T 18	5 46 51	26°13'51	24°30	14°11	13°22	4° 5	10°54	14°27	29°24	4°58	23°59	24°12	25°23	7°39	29°54	T 18
W19	5 50 47	27°14'56	7 Ⅱ 59	15°35	14°20	4°38	11° 7	14°31	29°23	4°58	23°58	24° 2	25°20	7°46	29°53	W19
T 20	5 54 44	28°16'02	21°49	16°57	15°17	5°12	11°21	14°34	29°22	4°57	23°57	23°52	25°17	7°52	29°52	T 20
F 21	5 58 40	29°17'08	5957	18°17	16°14	5°45	11°35	14°38	29°21	4°56	23°57	23°43	25°14	7°59	29°50	F 21
S 22	6 2 37	0 ට 18'14	20°17	19°34	17°11	6°19	11°49	14°41	29°21	4°55	23°56	23°37	25°10	8° 5	29°49	S 22
S 23	6 6 3 3	1°19'21	4 Ω 43	20°48	18° 6	6°53	12° 2	14°45	29°20	4°54	23°55	23°33	25° 7	8°12	29°48	S 23
M24	6 10 30	2°20'29	19°11	21°58	19° 1	7°26	12°16	14°48	29°19	4°54	23°54	23°D31	25° 4	8°19	29°47	M24
T 25	6 14 27	3°21'37	3 m 34	23° 5	19°56	8° 0	12°30	14°52	29°17	4°53	23°53	23°31	25° 1	8°25	29°46	T 25
W26	6 18 23	4°22'45	17°50	24° 6	20°50	8°35	12°44	14°56	29°16	4°52	23°52	23°32	24°58	8°32	29°45	W26
T 27	6 22 20	5°23'54	1 ≏ 58	25° 2	21°43	9° 9	12°58	15° 0	29°15	4°51	23°51	23°R33	24°55	8°39	29°45	T 27
F 28	6 26 16	6°25'04	15°56	25°52	22°36	9°43	13°12	15° 4	29°14	4°51	23°51	23°33	24°51	8°45	29°44	F 28
S 29	6 30 13	7°26'14	29°43	26°35	23°27	10°18	13°26	15° 8	29°13	4°50	23°50	23°31	24°48	8°52	29°43	S 29
S 30	6 34 9	8°27'25	13 M .19	27° 9	24°18	10°52	13°40	15°13	29°11	4°50	23°49	23°26	24°45	8°59	29°42	S 30
M31	6 38 6	9 ප් 28'36	26 M 44	27 궁 34	25≈ 9	11 Y 27	13 る 54	15 ∺ 17	29 Ω 10	4849	23848	23≈20	24≈42	9 米 5	29 Y 42	M31

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	decl	decl lat	decl l	lat decl	lat dec	lat	decl	lat	decl	lat	decl	lat	decl lat	C	decl lat	decl	decl	decl	decl	lat
S 1	21 s48	11 s13 4 s 2	24 s46	1 s49 23 s39	2 s43 2 s3	5 0s43	23 s20	0 s 4	8 s 2 0	2 s 7	12n22	0n45	11n34 1	s50 4	ln58 14s18	12 s53	12 s46	8 s 3 7	11n11	0 s28
S 2	21 58	16 54 4 38	24 58	1 53 23 25	2 41 2 2	0 41	23 19	0 4	8 19	2 7	12 22	0 45	11 34 1	50 4	57 14 18	12 56	12 47		11 10	0 28
M 3		21 39 4 58		1 57 23 11			23 18	0 4	8 19		12 22				57 14 18				11 10	0 28
T 4 W 5		25 10 5 0 27 13 4 45	25 17 25 25	2 1 22 56 2 4 22 40	2 38 1 5 2 35 1 3		23 18 23 17	0 4	8 18 8 17	2 7 2 6					57 14 18 57 14 18		12 49 12 50	8 27 8 24		0 28 0 28
T 6	_		5 25 23	2 7 22 24	2 33 1 3		23 16	0 4	8 16	2 6					57 14 18			8 21		0 28
F 7			25 36	2 10 22 7	2 31 1 1		23 16	0 4	8 15	2 6					57 14 18			8 17		0 28
S 8	22 44	24 15 2 42	25 39	2 12 21 50	2 28 0 5	0 28	23 15	0 4	8 14	2 6	12 22	0 45	11 32 1	49 4	1 57 14 17	13 17	12 53	8 14	11 6	0 28
S 9	22 50	20 46 1 44	25 41	2 14 21 33	2 26 0 4	0 26	23 14	0 4	8 13	2 6	12 22	0 45	11 31 1	49 4	57 14 17	13 19	12 54	8 11	11 5	0 28
M10			25 41	2 15 21 15	2 23 0 2		23 13	0 4	8 12	2 6			-		1 57 14 17			8 8	11 4	0 28
T 11	23 1	11 37 0n21		2 16 20 57	2 20 0 1		23 12	0 5	8 11	2 5	_		-		57 14 17				11 4	0 28
W12 T 13	23 5 23 10		25 38 2 25 33	2 17 20 38 2 17 20 19	2 16 0n 2 13 0 1		23 11 23 11	0 5 0 5	8 10 8 8	2 5 2 5	12 23 12 23				56 14 17 56 14 17			8 1 7 58	11 3	0 28 0 29
F 14	23 10		25 28	2 16 19 59	2 9 0 3		23 10	0 5	8 7		12 23				56 14 17			7 54		0 29
S 15			25 21	2 16 19 39	2 6 0 4			0 5	8 6		12 23				1 56 14 16			7 51		0 29
S 16	23 20	15 17 4 35	25 12	2 14 19 19	2 2 1	0 12	23 8	0 5	8 5	2 5	12 24	0 45	11 29 1	49 4	56 14 16	13 22	13 2	7 48	11 1	0 29
M17	23 22			2 12 18 58	1 57 1 1			0 5	8 3	2 4					1 56 14 16			7 45		0 29
T 18			24 51	2 9 18 38	1 53 1 3		23 6	0 5	8 2		12 24				56 14 16			7 41		0 29
W19 T 20			5 24 38 24 23	2 6 18 16 2 1 17 55	1 48 1 4 1 44 1 5		23 5 23 4	0 5 0 5	8 1 7 59		12 24 12 25		-		1 56 14 16 1 56 14 15				10 59 10 59	0 29
F 21	23 27			1 56 17 33	1 39 2 1			0 5	7 58		12 25				56 14 15				10 58	0 29
S 22			23 51	1 51 17 11	1 34 2 2		23 1	0 6	7 56		12 25				1 56 14 15				10 58	0 29
S 23	23 27	20 42 1 39	23 33	1 44 16 49	1 28 2 4	4 0 0	23 0	0 6	7 55	2 3	12 26	0 46	11 28 1	49 4	56 14 15	13 41	13 9	7 25	10 57	0 29
M24	23 26	15 27 0 23	3 23 15	1 36 16 26	1 23 2 5			0 6	7 53	2 3	12 26	0 46	11 27 1	49 4	1 56 14 15	13 41	13 11		10 57	0 29
T 25	23 25		1 22 55	1 27 16 4	1 17 3 1		22 58	0 6	7 51		12 27				56 14 14				10 57	0 29
W26 T 27	23 23 23 21		22 35 22 14	1 18 15 41 1 7 15 18	1 11 3 2 1 5 3 4		22 57 22 55	0 6	7 50 7 48		12 27 12 28				56 14 14 56 14 14				10 56 10 56	0 29 0 29
			21 53	0 55 14 55	0 58 3 5		22 54	0 6	7 46		12 28				56 14 14				10 56	0 29
S 29				0 42 14 31	0 51 4 1		22 53	0 6	7 45		12 28				56 14 13				10 55	0 29
S 30	23 11	20 40 5 4	21 11	0 27 14 8	0 45 4 2	0 10	22 52	0 6	7 43	2 2	12 29	0 46	11 26 1	48 4	56 14 13	13 43	13 17	7 2	10 55	0 30
M31	23 s 7	24 s26 5 s 8	3 20 s51	0s12 13s44	0s37 4n4	2 0n11	22 s50	0s 6	7 s41	2 s 2	12n30	0n46	11n26 1	s48 4	ln56 14s13	13 s45	13 s18	6s59	10n55	0 s30

Julian Day Number = 2406954.5, Delta T = -2.42 sec Ecliptic obliquity = 23°27'26, Nutation = 0°00'08, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 23°02'07, Lahiri = 22°09'08