

Astrodienst Ephemeris Tables for the year 1687

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 1687 GC 00:00 UT

Day	Sid.t	0	D	ğ	·	ď	4	ħ)∤(¥	В	R	Ω	Ç	ķ	Day
W 1	6 43 3	10 궁 52'30	5Ω39	29 පි 30	2 ට් 46	15 M 28	11 × 735	12 Ω 22	10°R41	4) 17	21°R33	0°R20	28846	7 Ω 28	12°R41	W 1
T 2	6 46 59	11°53'39	17°30	29°58	4° 2	16° 6	11°48	12°25	10840	4°19	219532	0 Π 12	28°43	7°35	12840	T 2
F 3	6 50 56	12°54'48	29°22	0≈17	5°17	16°44	12° 0	12°27	10°40	4°20	21°31	0° 4	28°39	7°41	12°38	F 3
S 4	6 54 52	13°55'57	11 m) 17	0°R26	6°33	17°23	12°13	12°28	10°39	4°22	21°29	29 8 58	28°36	7°48	12°37	S 4
S 5	6 58 49	14°57'06	23°18	0°23	7°48	18° 1	12°25	12°30	10°38	4°24	21°28	29°53	28°33	7°55	12°36	S 5
M 6	7 2 45	15°58'15	5 ₽ 30	0° 8	9° 4	18°39	12°38	12°32	10°37	4°25	21°27	29°51	28°30	8° 1	12°35	M 6
T 7	7 6 42	16°59'24	17°56	29 궁 42	10°19	19°17	12°50	12°33	10°37	4°27	21°25	29°D50	28°27	8° 8	12°34	T 7
W 8	7 10 39	18° 0'32	0 M .42	29° 4	11°35	19°55	13° 2	12°35	10°36	4°29	21°24	29°51	28°23	8°15	12°33	W 8
T 9	7 14 35	19° 1'41	13°52	28°15	12°50	20°33	13°14	12°36	10°36	4°30	21°23	29°52	28°20	8°22	12°33	T 9
F 10	7 18 32	20° 2'50	27°29	27°16	14° 5	21°11	13°27	12°38	10°35	4°32	21°21	29°R53	28°17	8°28	12°32	F 10
S 11	7 22 28	21° 3'58	11 × 35	26°10	15°21	21°49	13°39	12°39	10°35	4°34	21°20	29°52	28°14	8°35	12°31	S 11
S 12	7 26 25	22° 5'06	26° 9	24°57	16°36	22°28	13°51	12°40	10°35	4°36	21°19	29°49	28°11	8°42	12°31	S 12
M13	7 30 21	23° 6'14	11 궁 6	23°40	17°52	23° 6	14° 3	12°41	10°34	4°37	21°17	29°44	28° 8	8°48	12°30	M13
T 14	7 34 18	24° 7'22	26°19	22°22	19° 7	23°44	14°14	12°42	10°34	4°39	21°16	29°37	28° 4	8°55	12°30	T 14
W15	7 38 15	25° 8'28	11 ≈ 38	21° 5	20°23	24°22	14°26	12°42	10°34	4°41	21°15	29°28	28° 1	9° 2	12°29	W15
T 16	7 42 11	26° 9'34	26°50	19°51	21°38	25° 0	14°38	12°43	10°34	4°43	21°13	29°19	27°58	9° 9	12°29	T 16
F 17	7 46 8	27°10'39	11) (45	18°42	22°53	25°38	14°50	12°43	10°34	4°45	21°12	29°11	27°55	9°15	12°29	F 17
S 18	7 50 4	28°11'43	26°17	17°40	24° 9	26°16	15° 1	12°44	10°D34	4°47	21°11	29° 5	27°52	9°22	12°28	S 18
S 19	7 54 1	29°12'45	10 Y 22	16°45	25°24	26°54	15°13	12°44	10°34	4°49	21°10	29° 1	27°49	9°29	12°28	S 19
M20	7 57 57	0≈13'47	23°58	15°59	26°40	27°32	15°24	12°44	10°34	4°51	21° 8	28°59	27°45	9°35	12°28	M20
T 21	8 1 54	1°14'48	7 8 8	15°22	27°55	28°10	15°36	12°R44	10°34	4°52	21° 7	28°D59	27°42	9°42	12°D28	T 21
W22	8 5 50	2°15'47	19°56	14°55	29°10	28°48	15°47	12°44	10°34	4°54	21° 6	29° 0	27°39	9°49	12°28	W22
T 23	8 9 47	3°16'46	2 II 25	14°36	0≈26	29°26	15°58	12°44	10°34	4°56	21° 4	29°R 0	27°36	9°56	12°28	T 23
F 24	8 13 44	4°17'43	14°41	14°25	1°41	0 ∡ 3	16° 9	12°44	10°34	4°58	21° 3	28°58	27°33	10° 2	12°28	F 24
S 25	8 17 40	5°18'39	26°46	14°D23	2°56	0°41	16°20	12°44	10°35	5° 1	21° 2	28°55	27°29	10° 9	12°29	S 25
S 26	8 21 37	6°19'34	89945	14°29	4°12	1°19	16°31	12°43	10°35	5° 3	21° 1	28°48	27°26	10°16	12°29	S 26
M27	8 25 33	7°20'27	20°40	14°41	5°27	1°57	16°42	12°43	10°36	5° 5	20°59	28°39	27°23	10°22	12°29	M27
T 28	8 29 30	8°21'20	2 Ω 32	15° 1	6°42	2°35	16°53	12°42	10°36	5° 7	20°58	28°27	27°20	10°29	12°30	T 28
W29	8 33 26	9°22'11	14°24	15°26	7°58	3°13	17° 3	12°41	10°37	5° 9	20°57	28°13	27°17	10°36	12°30	W29
T 30	8 37 23	10°23'01	26°17	15°57	9°13	3°51	17°14	12°40	10°37	5°11	20°56	27°59	27°14	10°43	12°31	T 30
F 31	8 41 19	11≈23'50	8 m 13	16 궁 33	10≈28	4 ₹ 29	17 ₹ 24	12 ≏ 39	10 8 38	5) 13	20954	27 8 46	27810	10 Ω 49	12832	F 31

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	decl	decl lat	decl	lat decl	lat decl	lat	decl	lat	decl	lat	decl	lat	decl l	lat	decl	lat	decl	decl	decl	decl	lat
W 1 T 2	23 s 2 22 57	23n25 4n4 20 23 5	20s35 20 14	0s18 23s39 0 2 23 40	0s12 15s44 0 14 15 55		21 s38 21 40	0n35 0 35	2 s40 2 40	-	14n41 14 41	0 s23 0 23	10 s43 10 42		23n22 23 23		20n15 20 14		-	13n24 13 23	2 s23 2 23
F 3 S 4	22 51 22 45		19 53 2 19 34	0n14 23 39 0 32 23 38			21 41 21 43	0 35 0 35	2 41 2 41	-	14 41 14 41	0 23 0 23	10 42 10 41	0 49 0 49			20 12 20 11			13 23 13 23	2 23 2 23
S 5 M 6	22 38 22 31	1 39 4 1		1 9 23 34	0 22 16 29 0 24 16 40	0 46	21 45 21 46	0 35 0 35	2 42 2 42	2 27		0 23		0 49	-	1 39	20 9	19 52	22 58 22 57	13 22	2 23 2 23
T 7 W 8 T 9	22 24 22 16 22 8		18 38	1 28 23 31 1 47 23 27 2 5 23 22	0 26 16 51 0 28 17 2 0 31 17 12	0 45	21 48 21 50 21 51	0 35 0 35 0 35	2 42 2 43 2 43	2 28	14 40 14 40 14 40	0 23	10 39	0 49 0 49 0 49	23 24	1 39 1 39 1 39	20 9	19 50	22 55 22 54 22 52	13 22	2 23 2 23 2 23
1			3 18 24 3 18 21	2 23 23 17 2 39 23 11	0 33 17 23 0 35 17 33		21 53 21 54	0 35 0 35	2 43 2 43	-	14 40 14 40		10 37 10 37		23 25 23 25	1 39 1 39			22 51 22 49		2 23 2 23
_	21 40 21 30 21 19	26 23 3 22		2 53 23 4 3 6 22 56 3 16 22 48	0 39 17 54	0 42	21 56 21 57 21 58	0 35 0 35 0 35	2 44 2 44 2 44	2 29		0 23	10 35	0 49		1 39 1 39 1 39	20 8	19 47	22 48 22 46 22 45	13 21	2 23 2 23 2 23
W15 T 16 F 17 S 18	21 9 20 57 20 46 20 34			3 23 22 39 3 28 22 29 3 31 22 19 3 31 22 8	0 48 18 33	0 41 0 40		0 35 0 35 0 35 0 35	2 44 2 44 2 44 2 44	2 30 2 30	14 39 14 39 14 39 14 39	0 23 0 23	10 34 10 33 10 33 10 32	0 49 0 49 0 49 0 49	23 27 23 27	1 39 1 40 1 40	20 2 20 1	19 45 19 44	22 43 22 42 22 40 22 38	13 21 13 21	2 22 2 22 2 22 2 22
S 19 M20 T 21	20 21 20 8 19 55	0n36 3 49 6 36 2 56	18 59 5 19 8	3 29 21 56 3 25 21 44 3 19 21 31		0 39	22 5 22 6	0 35 0 35 0 35	2 43 2 43 2 43		14 39 14 39	0 23 0 23			23 27 23 28	1 40 1 40	19 58 19 58	19 42 19 42	22 37 22 35 22 34	13 21 13 21	2 22 2 22 2 22 2 22
W22 T 23 F 24 S 25	19 27	20 59 On18 23 58 1 23		3 12 21 17 3 4 21 3 2 55 20 48 2 46 20 33	1 1 19 37	0 37	22 9 22 10 22 11 22 12	0 35 0 34 0 34 0 34	2 43 2 42 2 42 2 42	2 32 2 32		0 23 0 23			23 28	1 40 1 40	19 58 19 58	19 40 19 39	22 32 22 31 22 29 22 27	13 21 13 21	2 22 2 22 2 22 2 22
S 26 M27 T 28	18 43 18 28 18 12	26 26 3 14 25 49 3 58 24 1 4 3	20 7 3 20 16 20 25	2 36 20 17 2 25 20 0 2 14 19 42	1 4 19 54 1 5 20 2 1 7 20 10	0 35 0 34 0 34	22 14 22 15 22 16	0 34 0 34 0 34	2 41 2 41 2 40	2 33 2 33	14 40 14 40 14 40	0 22 0 22 0 22	10 26 10 25 10 24	0 49 0 49 0 49	23 29 23 29 23 30	1 40 1 40 1 40	19 56 19 54 19 51	19 37 19 37 19 36	22 26 22 24 22 23	13 22 13 22 13 22	2 22 2 22 2 22
W29 T 30 F 31	17 40	17 29 5 0	2 20 33 2 20 41 5 20 s47	2 3 19 25 1 52 19 6 1n41 18s47	1 10 20 20	0 32	22 17 22 18 22 s19	0 34 0 34 0n34	2 40 2 39 2 s 38	2 34	14 41 14 41 14n41	0 22 0 22 0 s22		0 49 0 49 0 s49		1 40	19 45	19 34	22 21 22 19 22n18		2 22 2 22 2 s22

Julian Day Number = 2337224.5, Delta T = 19.88 sec Ecliptic obliquity = $23^{\circ}28'52$, Nutation = - $0^{\circ}00'14$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}22'16$, Lahiri = $19^{\circ}29'17$ Greg. Calendar

FEBRUARY 1687 GC 00:00 UT

Day	Sid.t	0	D	ğ	·	ď	4	ħ)f(,	В	S.	v	Ç	ķ	Day
S 1	8 45 16	12≈24'38	20 m 12	17중14	11≈44	5 ₹ 6	17 × 35	12°R38	10839	5) 15	20°R53	27°R34	27 8 7	10₽56	12832	S 1
S 2	8 49 13	13°25'25	2 ჲ 17	17°59	12°59	5°44	17°45	12 ≙ 37	10°39	5°17	20952	27 8 25	27° 4	11° 3	12°33	S 2
M 3	8 53 9	14°26'11	14°30	18°47	14°14	6°22	17°55	12°36	10°40	5°19	20°51	27°18	27° 1	11°10	12°34	M 3
T 4	8 57 6	15°26'56	26°56	19°40	15°29	7° 0	18° 5	12°34	10°41	5°22	20°50	27°15	26°58	11°16	12°35	T 4
W 5	9 1 2	16°27'39	9 M .38	20°35	16°45	7°37	18°15	12°33	10°42	5°24	20°48	27°14	26°55	11°23	12°36	W 5
T 6	9 4 59	17°28'22	22°40	21°34	18° 0	8°15	18°25	12°31	10°43	5°26	20°47	27°13	26°51	11°30	12°37	T 6
F 7	9 8 5 5	18°29'04	6 ₹ 7	22°35	19°15	8°53	18°35	12°30	10°44	5°28	20°46	27°13	26°48	11°36	12°38	F 7
S 8	9 12 52	19°29'45	20° 1	23°39	20°30	9°30	18°45	12°28	10°45	5°30	20°45	27°12	26°45	11°43	12°39	S 8
S 9	9 16 48	20°30'24	4 る 23	24°45	21°45	10° 8	18°54	12°26	10°46	5°33	20°44	27° 8	26°42	11°50	12°40	S 9
M10	9 20 45	21°31'02	19°11	25°53	23° 1	10°46	19° 4	12°24	10°47	5°35	20°43	27° 1	26°39	11°57	12°42	M10
T 11	9 24 42	22°31'39	4≈19	27° 4	24°16	11°23	19°13	12°22	10°48	5°37	20°42	26°52	26°35	12° 3	12°43	T 11
W12	9 28 38	23°32'15	19°39	28°16	25°31	12° 1	19°22	12°20	10°50	5°39	20°41	26°41	26°32	12°10	12°44	W12
T 13	9 32 35	24°32'49	4) (57	29°30	26°46	12°39	19°31	12°17	10°51	5°41	20°39	26°29	26°29	12°17	12°46	T 13
F 14	9 36 31	25°33'21	20° 4	0≈46	28° 1	13°16	19°40	12°15	10°52	5°44	20°38	26°18	26°26	12°23	12°47	F 14
S 15	9 40 28	26°33'52	4℃ 49	2° 3	29°16	13°54	19°49	12°12	10°54	5°46	20°37	26° 9	26°23	12°30	12°49	S 15
S 16	9 44 24	27°34'20	19° 6	3°22	0 ∺ 31	14°31	19°58	12°10	10°55	5°48	20°36	26° 3	26°20	12°37	12°51	S 16
M17	9 48 21	28°34'47	2 8 53	4°42	1°46	15° 8	20° 6	12° 7	10°57	5°50	20°35	25°59	26°16	12°44	12°52	M17
T 18	9 52 17	29°35'12	16°10	6° 3	3° 2	15°46	20°15	12° 4	10°58	5°53	20°34	25°58	26°13	12°50	12°54	T 18
W19	9 56 14	0) ₹35'35	29° 1	7°26	4°17	16°23	20°23	12° 2	11° 0	5°55	20°33	25°58	26°10	12°57	12°56	W19
T 20	10 0 11	1°35'56	11 II 30	8°50	5°32	17° 1	20°31	11°59	11° 2	5°57	20°32	25°58	26° 7	13° 4	12°58	T 20
F 21	10 4 7	2°36'15	23°43	10°15	6°47	17°38	20°39	11°56	11° 3	6° 0	20°32	25°56	26° 4	13°10	13° 0	F 21
S 22	10 8 4	3°36'32	59945	11°42	8° 2	18°15	20°47	11°53	11° 5	6° 2	20°31	25°53	26° 1	13°17	13° 2	S 22
S 23	10 12 0	4°36'48	17°39	13°10	9°17	18°52	20°55	11°50	11° 7	6° 4	20°30	25°46	25°57	13°24	13° 4	S 23
M24	10 15 57	5°37'01	29°30	14°38	10°32	19°30	21° 3	11°46	11° 9	6° 6	20°29	25°37	25°54	13°31	13° 6	M24
T 25	10 19 53	6°37'12	11 Ω 21	16° 8	11°47	20° 7	21°10	11°43	11°11	6° 9	20°28	25°25	25°51	13°37	13° 8	T 25
W26	10 23 50	7°37'21	23°14	17°39	13° 1	20°44	21°18	11°40	11°12	6°11	20°27	25°11	25°48	13°44	13°11	W26
T 27	10 27 46	8°37'28	5 m)11	19°12	14°16	21°21	21°25	11°36	11°14	6°13	20°26	24°57	25°45	13°51	13°13	T 27
F 28	10 31 43	9) 37'34	17 m)13	20≈45	15) (31	21 × 758	21 × 32	11 ≏ 33	11816	6) 16	209526	24843	25841	13 £ 58	13815	F 28

Day	0	Ş)	ζ	5	ç)	C	7	2	4	ħ	1)	ł(,		Е)	'n	v	Ç	Ł	(
	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	17s 7	8n 9	4n38	20 s54	1n29	18 s28	1 s 1 2	20 s41	0n31	22 s20	0n34	2 s 3 8	2n34	14n41	0 s22	10s21	0 s49	23n31	1n40	19n39	19n33	22n16	13n23	2 s21
S 2	16 49	2 52	4 7	20 59	1 18	18 8	1 14	20 48	0 30	22 21	0 34	2 37	2 35	14 42	0 22	10 21	0 49	23 31	1 41	19 37	19 32	22 14	13 23	2 21
M 3	16 32	2 s34	3 25	21 3	1 7	17 47	1 15	20 56	0 29	22 22	0 34	2 36	2 35	14 42	0 22	10 20	0 49	23 31	1 41	19 36	19 32	22 13	13 23	2 21
T 4	16 14	8 1	2 33	21 6	0 57	17 26	1 16	21 3	0 29	22 23	0 34	2 36	2 35	14 42	0 22	10 19	0 49	23 31	1 41	19 35	19 31	22 11	13 24	2 21
W 5	15 56	13 17	1 32	21 9	0 46	17 4	1 17	21 10	0 28	22 23	0 34	2 35	2 36	14 43	0 22	10 18	0 49	23 32	1 41	19 34	19 30	22 9	13 24	2 21
T 6	15 37	18 5	0 24	21 10	0 36	16 42	1 18	21 16	0 27	22 24	0 34	2 34	2 36	14 43	0 22	10 17	0 49	23 32	1 41	19 34	19 29	22 8	13 25	2 21
F 7	15 19	22 8	0 s47	21 10	0 26	16 20	1 19	21 23	0 26	22 25	0 34	2 33	2 36	14 43	0 22	10 17	0 49	23 32	1 41	19 34	19 29	22 6	13 25	2 21
S 8	15 0	25 3	1 57	21 9	0 16	15 57	1 20	21 30	0 26	22 26	0 34	2 32	2 36	14 44	0 22	10 16	0 49	23 32	1 41	19 34	19 28	22 4	13 25	2 21
S 9	14 41	26 27	3 3	21 7	0 6	15 33	1 21	21 36	0 25	22 27	0 34	2 31	2 37	14 44	0 22	10 15	0 49	23 32	1 41	19 33	19 27	22 3	13 26	2 21
M10	14 21	26 2	3 58	21 4	0s 3	15 10	1 22	21 42	0 24	22 28	0 34	2 30	2 37	14 44	0 22	10 14	0 49	23 33	1 41	19 32	19 26	22 1	13 26	2 21
T 11	14 2	23 42	4 37	20 59	0 12	14 45	1 23	21 48	0 23	22 28	0 34	2 29	2 37	14 45	0 22	10 13	0 49	23 33	1 41	19 29	19 26	21 59	13 27	2 21
W12	13 42	19 39	4 58	20 53	0 21	14 21	1 23	21 54	0 23	22 29	0 34	2 28	2 37	14 45	0 22	10 12	0 49	23 33	1 41	19 27	19 25	21 57	13 27	2 21
T 13	13 22	14 18	4 57	20 47	0 30	13 56	1 24	22 0	0 22	22 30	0 34	2 27	2 38	14 46	0 22	10 12	0 49	23 33	1 41	19 24	19 24	21 56	13 28	2 21
F 14	13 1	8 9	4 35	20 38	0 38	13 30	1 24	22 5	0 21	22 31	0 34	2 26	2 38	14 46	0 22	10 11	0 49	23 33	1 41	19 22	19 23	21 54	13 28	2 21
S 15	12 41	1 41	3 55	20 29	0 46	13 4	1 25	22 11	0 20	22 31	0 34	2 24	2 38	14 46	0 22	10 10	0 49	23 34	1 41	19 19	19 23	21 52	13 29	2 21
S 16	12 20	4n42	3 1	20 18	0 53	12 38	1 25	22 16	0 19	22 32	0 34	2 23	2 38	14 47	0 22	10 9	0 49	23 34	1 41	19 18	19 22	21 51	13 29	2 21
M17	11 59	10 38	1 59	20 6	1 1	12 12	1 26	22 21	0 18	22 33	0 34	2 22	2 38	14 47	0 22	10 8	0 49	23 34	1 41	19 17	19 21	21 49	13 30	2 21
T 18	11 38	15 53	0 52	19 53	1 8	11 45	1 26	22 26	0 17	22 33	0 34	2 21	2 39	14 48	0 22	10 8	0 49	23 34	1 41	19 17	19 20	21 47	13 30	2 20
W19	11 17	20 14	0n16	19 39	1 14	11 18	1 26	22 31	0 17	22 34	0 34	2 19	2 39	14 48	0 22	10 7	0 49	23 34	1 41	19 17	19 20	21 45	13 31	2 20
T 20	10 55	23 33	1 21	19 23	1 21	10 50	1 26	22 35	0 16	22 34	0 34	2 18	2 39	14 49	0 22	10 6	0 49	23 35	1 41	19 17	19 19	21 43	13 32	2 20
F 21	10 34	25 41	2 21	19 6	1 27	10 23	1 26	22 40	0 15	22 35	0 34	2 17	2 39	14 50	0 22	10 5	0 49	23 35	1 41	19 16	19 18	21 42	13 32	2 20
S 22	10 12	26 35	3 13	18 47	1 32	9 55	1 27	22 44	0 14	22 35	0 34	2 15	2 40	14 50	0 22	10 4	0 49	23 35	1 41	19 16	19 17	21 40	13 33	2 20
S 23	9 50	26 14	3 57	18 27	1 38	9 26	1 26	22 48	0 13	22 36	0 34	2 14	2 40	14 51	0 22	10 3	0 49	23 35	1 41	19 14	19 17	21 38	13 34	2 20
M24	9 28	24 41	4 30	18 6	1 43	8 58	1 26	22 52	0 12	22 37	0 34	2 12	2 40	14 51	0 22	10 3	0 49	23 35	1 41	19 12	19 16	21 36	13 34	2 20
T 25	9 6	22 4	4 51	17 44	1 47	8 29	1 26	22 56	0 11	22 37	0 34	2 11	2 40	14 52	0 22	10 2	0 49	23 35	1 41	19 9	19 15	21 35	13 35	2 20
W26	8 43	18 30	5 0	17 20	1 51	8 0	1 26	22 59	0 10	22 38	0 34	2 9	2 40	14 53	0 22	10 1	0 49	23 36	1 42	19 6	19 14	21 33	13 36	2 20
T 27	8 21	14 12	4 55	16 55	1 55	7 31	1 26	23 3	0 9	22 38	0 34	2 8	2 41	14 53	0 22	10 0	0 49	23 36	1 42	19 2	19 14	21 31	13 36	2 20
F 28	7 s58	9n19	4n37	16 s 29	1 s59	7s 2	1 s25	23 s 6	0n 8	22 s38	0n34	2s 6	2n41	14n54	0 s22	9 s 5 9	0 s49	23n36	1n42	18n59	19n13	21n29	13n37	2 s20

Julian Day Number = 2337255.5, Delta T = 19.84 sec

Ecliptic obliquity = 23°28'53, Nutation = -0°00'13, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°22'20, Lahiri = 19°29'21Greg. Calendar

MARCH 1687 GC 00:00 UT

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Day	Sid.t	0)	ğ	φ	ď	4	ħ)∤(,	В	ß	Ω	Ç	ķ	Day
S 1	10 35 40	10) €37'37	29 Mp 20	22≈19	16 ¥ 46	22 × 35	21 × 39	11°R29	11818	6 ¥ 18	20°R25	24°R31	25 8 38	14 Ω 4	13818	S 1
S 2	10 39 36	11°37'39	11 ≏ 35	23°55	18° 1	23°12	21°46	11 ≏ 25	11°21	6°20	209524	24821	25°35	14°11	13°20	S 2
M 3	10 43 33	12°37'39	23°59	25°32	19°16	23°49	21°53	11°22	11°23	6°22	20°23	24°15	25°32	14°18	13°23	M 3
T 4	10 47 29	13°37'37	6MJ33	27° 9	20°31	24°26	21°59	11°18	11°25	6°25	20°23	24°11	25°29	14°24	13°25	T 4
W 5	10 51 26	14°37'34	19°21	28°48	21°45	25° 3	22° 6	11°14	11°27	6°27	20°22	24°D10	25°26	14°31	13°28	W 5
T 6	10 55 22	15°37'29	2×725	0 ¥ 28	23° 0	25°40	22°12	11°10	11°29	6°29	20°21	24°10	25°22	14°38	13°31	T 6
F 7	10 59 19	16°37'22	15°47	2° 9	24°15	26°17	22°18	11° 6	11°32	6°31	20°20	24°R10	25°19	14°45	13°33	F 7
S 8	11 3 15	17°37'14	29°32	3°52	25°30	26°54	22°24	11° 2	11°34	6°34	20°20	24° 9	25°16	14°51	13°36	S 8
S 9	11 7 12	18°37'04	13 る 40	5°35	26°44	27°30	22°30	10°58	11°36	6°36	20°19	24° 7	25°13	14°58	13°39	S 9
M10	11 11 9	19°36'52	28°11	7°20	27°59	28° 7	22°35	10°54	11°39	6°38	20°19	24° 2	25°10	15° 5	13°42	M10
T 11	11 15 5 11 19 2	20°36'39	13 ≈ 0 28° 2	9° 6 10°53	29°14 0 ° 28	28°44 29°20	22°41 22°46	10°50 10°45	11°41 11°44	6°40 6°43	20°18 20°18	23°55 23°46	25° 7 25° 3	15°11	13°45 13°48	T 11 W12
W12 T 13	11 19 2	21°36'24 22°36'07	13) 7	10°53	1°43	29°20 29°57	22°46 22°51	10°43 10°41	11°44 11°46	6°45	20°18 20°17	23°36	25° 0	15°18 15°25	13°48 13°51	T 13
F 14	11 22 38	22°35'48	28° 6	14°31	2°58	29 37 0 중 33	22°56	10°37	11°49	6°47	20°17	23°27	24°57	15°32	13°54	F 14
S 15	11 30 51	24°35'26	12 Υ 48	16°22	4°12	1°10	23° 1	10°32	11°51	6°49	20°16	23°19	24°54	15°38	13°57	S 15
S 16	11 34 48	25°35'03	27° 8	18°14	5°27	1°46	23° 6	10°28	11°54	6°51	20°16	23°14	24°51	15°45	14° 0	S 16
M17	11 38 44	26°34'38	118 0	20° 7	6°41	2°23	23°10	10°24	11°56	6°54	20°15	23°11	24°47	15°52	14° 3	M17
T 18	11 42 41	27°34'10	24°23	22° 1	7°56	2°59	23°15	10°19	11°59	6°56	20°15	23°D11	24°44	15°58	14° 6	T 18
W19	11 46 37	28°33'40	7 Ⅱ 21	23°57	9°10	3°35	23°19	10°15	12° 2	6°58	20°14	23°11	24°41	16° 5	14°10	W19
T 20	11 50 34	29°33'08	19°56	25°54	10°25	4°11	23°23	10°10	12° 5	7° 0	20°14	23°12	24°38	16°12	14°13	T 20
F 21	11 54 31	0 Υ 32'33	29512	27°52	11°39	4°47	23°26	10° 6	12° 7	7° 2	20°14	23°R13	24°35	16°19	14°16	F 21
S 22	11 58 27	1°31'57	14°15	29°51	12°54	5°23	23°30	10° 1	12°10	7° 4	20°13	23°12	24°32	16°25	14°20	S 22
S 23	12 2 24	2°31'17	26°10	1 Υ 51	14° 8	5°59	23°33	9°56	12°13	7° 6	20°13	23° 9	24°28	16°32	14°23	S 23
M24	12 6 20	3°30'36	8 \Omega 1	3°52	15°22	6°35	23°37	9°52	12°16	7° 8	20°13	23° 4	24°25	16°39	14°27	M24
T 25	12 10 17	4°29'52	19°53	5°54	16°37 17°51	7°11	23°40 23°43	9°47	12°19	7°11 7°13	20°13 20°12	22°56 22°48	24°22 24°19	16°46	14°30	T 25
W26 T 27	12 14 13 12 18 10	5°29'06 6°28'18	1 m 49 13°50	7°57 10° 0	1/°51 19° 5	7°47 8°22	23°43 23°45	9°43 9°38	12°22 12°25	7°13	20°12 20°12	22°48 22°39	24°19 24°16	16°52 16°59	14°34 14°37	W26 T 27
F 28	12 18 10	7°27'27	26° 0	10 0 12° 4	20°19	8°58	23°48	9°33	12°28	7°17	20°12	22°30	24°12	10 39 17° 6	14 37 14°41	F 28
S 29	12 26 3	8°26'34	8 ₾ 20	14° 7	21°34	9°33	23°50	9°29	12°31	7°19	20°12	22°23	24° 9	17°12	14°44	S 29
S 30	12 30 0	9°25'40	20°49	16°11	22°48	10° 9	23°52	9°24	12°34	7°21	20°12	22°17	24° 6	17°19	14°48	S 30
M31	12 33 56	10 Y 24'43	3 M .30	18 Y 14	24 ° 2	10ਰ44	23 × 754	9 ≏ 19	12837	7) €23	209512	22813	24 8 3	17 Ω 26	14852	M31

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S 1	7 s36	4n 2 4n 7	16s 1 2s 2	2 6s32 1s25 23s	0n 7	22 s39 0n34	2 s 5 2n41	14n54 0s22	9s58 0s49	23n36 1n42	18n56 19	9n12 21n27	13n38 2s20
S 2	7 13	1 s27 3 25	15 32 2 4	6 3 1 25 23 1	0 6	22 39 0 34	2 3 2 41	14 55 0 22	9 58 0 49	23 36 1 42	18 54 19	9 11 21 25	13 39 2 20
M 3	6 50	6 57 2 33	15 1 2 7	5 33 1 24 23 1	0 5	22 40 0 34	2 2 2 41	14 56 0 22	9 57 0 49	23 36 1 42	18 52 19	9 11 21 24	13 40 2 20
T 4		12 17 1 32		9 9 1 23 23 1		22 40 0 34	2 0 2 42		9 56 0 49			9 10 21 22	
W 5		17 11 0 26				22 41 0 34	1 58 2 42		9 55 0 49		18 51 19		
T 6	-	21 24 0s44	-	4 2 1 22 23 2		22 41 0 34	1 57 2 42		9 54 0 49		18 51 19		
F 7		24 35 1 52				22 41 0 34	1 55 2 42		9 53 0 49		18 51 19		
S 8	4 54	26 25 2 56	12 10 2 12	2 3 1 1 20 23 2	0s 1	22 42 0 34	1 53 2 42	14 59 0 21	9 53 0 49	23 37 1 42	18 51 19	9 7 21 14	13 44 2 20
S 9	4 31	26 37 3 51	11 31 2 12	2 2 31 1 20 23 2	0 2	22 42 0 34	1 51 2 42	15 0 0 21	9 52 0 49	23 37 1 42	18 50 19	6 21 13	13 45 2 20
M10	4 7	25 1 4 33	10 52 2 11	2 0 1 19 23 3	0 3	22 42 0 34	1 50 2 42	15 1 0 21	9 51 0 49	23 37 1 42	18 49 19	9 5 21 11	13 45 2 20
T 11	3 44	21 42 4 58	10 11 2 10	1 30 1 18 23 3	0 4	22 43 0 34	1 48 2 43	15 2 0 21	9 50 0 49	23 37 1 42	18 47 19	9 5 21 9	13 46 2 20
W12	3 20	16 54 5 2	9 29 2 8	8 0 59 1 16 23 3	0 5	22 43 0 34	1 46 2 43	15 2 0 21	9 49 0 49	23 38 1 42	18 45 19	9 4 21 7	13 47 2 20
T 13	2 56	11 3 4 46	8 45 2 6			22 43 0 34	1 44 2 43	15 3 0 21	9 49 0 49		18 42 19	-	
F 14	2 33	4 35 4 10				22 43 0 34	1 43 2 43		9 48 0 49		18 40 19		13 49 2 20
S 15	2 9	2n 2 3 18	7 15 2 0	0 34 1 13 23 3	0 9	22 44 0 34	1 41 2 43	15 5 0 21	9 47 0 49	23 38 1 42	18 38 19	9 2 21 1	13 50 2 19
S 16	1 45	8 22 2 15	6 27 1 57	7 1 4 1 11 23 3	0 10	22 44 0 34	1 39 2 43	15 6 0 21	9 46 0 49	23 38 1 42	18 37 19	9 1 20 59	13 51 2 19
M17	1 22	14 8 1 5	5 39 1 53	3 1 35 1 10 23 3	0 11	22 44 0 34	1 37 2 43	15 7 0 21	9 45 0 49	23 38 1 42	18 36 19	0 20 57	13 52 2 19
T 18	0 58	19 0 0n 7	4 49 1 48	3 2 6 1 9 23 4	0 13	22 44 0 34	1 35 2 43	15 7 0 21	9 45 0 49	23 38 1 42	18 36 18	3 59 20 55	13 53 2 19
W19	0 34	22 49 1 15	3 59 1 43	3 2 37 1 7 23 4	0 14	22 44 0 34	1 33 2 43	15 8 0 21	9 44 0 49	23 38 1 42	18 36 18	3 58 20 54	13 54 2 19
T 20	0 11	25 24 2 18	3 7 1 37				1 32 2 44	15 9 0 21	9 43 0 49			3 58 20 52	
F 21		26 41 3 14						15 10 0 21	9 42 0 49			3 57 20 50	
S 22	0 37	26 41 3 59	1 21 1 24	4 9 1 2 23 4	0 18	22 45 0 34	1 28 2 44	15 11 0 21	9 41 0 49	23 38 1 42	18 36 18	3 56 20 48	13 57 2 19
S 23	1 0	25 26 4 34	0 26 1 17	7 4 39 1 1 23 4	0 19	22 45 0 34	1 26 2 44	15 12 0 21	9 41 0 49	23 38 1 42	18 36 18	3 55 20 46	13 58 2 19
M24	1 24	23 4 4 56	0n29 1 9	5 9 0 59 23 4	0 21	22 45 0 34	1 24 2 44	15 13 0 21	9 40 0 49	23 39 1 42	18 34 18	3 55 20 44	13 59 2 19
T 25	1 47	19 43 5 6	1 25 1 1	5 40 0 57 23 3	0 22	22 46 0 34	1 22 2 44	15 13 0 21	9 39 0 49	23 39 1 42	18 32 18	3 54 20 42	14 0 2 19
W26	2 11	15 33 5 3	2 22 0 52	2 6 10 0 55 23 3	0 24	22 46 0 34	1 20 2 44	15 14 0 21	9 38 0 49	23 39 1 42	18 30 18	3 53 20 40	14 1 2 19
T 27	2 34	10 46 4 46	3 19 0 42	2 6 40 0 53 23 3	0 25	22 46 0 34	1 19 2 44	15 15 0 21	9 38 0 49	23 39 1 42	18 28 18	3 52 20 38	14 2 2 19
F 28	2 58	5 31 4 16					1 17 2 44		9 37 0 49			3 51 20 36	
S 29	3 21	0s 2 3 34	5 14 0 23	3 7 39 0 50 23 3	0 28	22 46 0 34	1 15 2 44	15 17 0 21	9 36 0 49	23 39 1 42	18 24 18	3 51 20 34	14 4 2 19
S 30	3 45	5 39 2 41	6 11 0 12	2 8 9 0 48 23 3	0 30	22 46 0 34	1 13 2 44	15 18 0 21	9 35 0 49	23 39 1 42	18 22 18	3 50 20 32	14 5 2 19
M31	4n 8	11 s 9 1n40	7n 9 0s 1	8n38 0s46 23 s3	0 s 3 1	22 s46 0n34	1s11 2n44	15n19 0s21	9 s 3 5 0 s 4 9	23n39 1n42	18n21 18	3n49 20n30	14n 6 2s19

Julian Day Number = 2337283.5, Delta T = 19.80 sec Ecliptic obliquity = 23°28'54, Nutation = -0°00'13, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°22'24, Lahiri = 19°29'25Greg. Calendar

APRIL 1687 GC 00:00 UT

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T 1	12 37 53	11 Y 23'44	16 M 21	20 Υ 17	25 Y 16	11る20	23 × 756	9°R15	12840	7) €25	20°R12	22°D12	24 8 0	17 £ 33	14856	T 1
W 2	2 12 41 49	12°22'44	29°25	22°19	26°30	11°55	23°58	9 ≏ 10	12°43	7°27	209512	22812	23°57	17°39	14°59	W 2
T 3	12 45 46	13°21'42	12 ~ 42	24°19	27°44	12°30	23°59	9° 5	12°46	7°29	20°D12	22°13	23°53	17°46	15° 3	T 3
F 4	12 49 42	14°20'38	26°13	26°18	28°58	13° 5	24° 1	9° 1	12°49	7°31	20°12	22°14	23°50	17°53	15° 7	F 4
S 5	12 53 39	15°19'32	10중 0	28°14	0 8 13	13°40	24° 2	8°56	12°52	7°32	20°12	22°R15	23°47	17°59	15°11	S 5
S		16°18'25	24° 1	0 8 9	1°27	14°15	24° 3	8°52	12°55	7°34	20°12	22°15	23°44	18° 6	15°15	S 6
M 7	7 13 1 32	17°17'16	8≈18	2° 0	2°41	14°50	24° 3	8°47	12°59	7°36	20°12	22°14	23°41	18°13	15°19	M 7
T 8		18°16'05	22°47	3°48	3°54	15°25	24° 4	8°42	13° 2	7°38	20°12	22°11	23°38	18°20	15°23	T 8
W 9	13 9 25	19°14'53	7 ∺ 24	5°33	5° 8	15°59	24° 4	8°38	13° 5	7°40	20°12	22° 6	23°34	18°26	15°26	W 9
T 10	13 13 22	20°13'38	22° 3	7°15	6°22	16°34	24°R 4	8°33	13° 8	7°42	20°12	22° 2	23°31	18°33	15°30	T 10
F 11	13 17 18	21°12'22	6 Ƴ 38	8°52	7°36	17° 8	24° 4	8°29	13°12	7°43	20°13	21°57	23°28	18°40	15°34	F 11
S 12	2 13 21 15	22°11'04	21° 2	10°25	8°50	17°43	24° 4	8°24	13°15	7°45	20°13	21°53	23°25	18°47	15°39	S 12
S 13		23° 9'43	5 8 8	11°54	10° 4	18°17	24° 3	8°20	13°18	7°47	20°13	21°51	23°22	18°53	15°43	S 13
M14		24° 8'21	18°53	13°18	11°18	18°51	24° 3	8°15	13°22	7°49	20°13	21°D50	23°18	19° 0	15°47	M14
T 15		25° 6'57	2 I I15	14°37	12°31	19°25	24° 2	8°11	13°25	7°50	20°14	21°50	23°15	19° 7	15°51	T 15
Wle	5 13 37 1	26° 5'31	15°14	15°52	13°45	19°59	24° 1	8° 7	13°28	7°52	20°14	21°51	23°12	19°13	15°55	W16
T 17	7 13 40 58	27° 4'03	27°52	17° 1	14°59	20°32	24° 0	8° 3	13°32	7°54	20°14	21°53	23° 9	19°20	15°59	T 17
F 18	3 13 44 54	28° 2'32	109512	18° 5	16°13	21° 6	23°58	7°58	13°35	7°55	20°15	21°55	23° 6	19°27	16° 3	F 18
S 19	13 48 51	29° 1'00	22°19	19° 4	17°26	21°39	23°57	7°54	13°38	7°57	20°15	21°56	23° 3	19°34	16° 7	S 19
S 20		29°59'25	4 Ω 16	19°58	18°40	22°13	23°55	7°50	13°42	7°59	20°16	21°R56	22°59	19°40	16°11	S 20
M21		0 8 57'48	16° 9	20°46	19°53	22°46	23°53	7°46	13°45	8° 0	20°16	21°55	22°56	19°47	16°16	M21
T 22		1°56'09	28° 3	21°29	21° 7	23°19	23°51	7°42	13°49	8° 2	20°16	21°53	22°53	19°54	16°20	T 22
W23		2°54'28	10 Mg 0	22° 6	22°20	23°52	23°49	7°38	13°52	8° 3	20°17	21°51	22°50	20° 1	16°24	W23
T 24		3°52'45	22° 6	22°38	23°34	24°25	23°46	7°34	13°55	8° 5	20°17	21°48	22°47	20° 7	16°28	T 24
F 25		4°51'00	4 º 23	23° 4	24°47	24°57	23°44	7°30	13°59	8° 6	20°18	21°45	22°43	20°14	16°33	F 25
S 26	5 14 16 27	5°49'13	16°53	23°24	26° 1	25°30	23°41	7°26	14° 2	8° 7	20°19	21°43	22°40	20°21	16°37	S 26
S 27		6°47'24	29°38	23°39	27°14	26° 2	23°38	7°22	14° 6	8° 9	20°19	21°41	22°37	20°27	16°41	S 27
M28		7°45'33	12 M .37	23°49	28°28	26°34	23°35	7°19	14° 9	8°10	20°20	21°40	22°34	20°34	16°45	M28
T 29		8°43'41	25°52	23°R53	29°41	2 <u>7°</u> 6	23°31	7°15	14°13	8°12	20°20	21°D40	22°31	20°41	16°50	T 29
W30	14 32 13	9 8 41'47	9 ₹ 19	23 8 52	0 Ⅱ 54	27 る 38	23 × ⁷ 28	7 ≗ 12	14816	8): 13	209521	21841	22 8 28	20 Ω 48	16 8 54	W30

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T 1 W 2	4n31 4 54		0n32 0s39	8n 5	0n10 0 21	9n 7 9 36		23 s32 23 31		22 s46 22 46	0n34 0 34	1s 9 1 7		-	0s21 0 21	9s34 9 33	0 s49 0 49			18n21 18 21		20n28 20 26		2 s 1 9 2 1 9
T 3			1 49	9 57	0 33			23 29		22 46	0 34	1 6		-		9 33	0 49					20 24	-	2 19
F 4	5 40	26 20	2 54	10 51	0 44			23 28		22 46	0 34	1 4	2 44	15 23	0 21	9 32	0 49	23 39	-			20 22		2 19
S 5	6 3	26 56	3 51	11 44	0 55	11 1	0 35	23 26	0 39	22 47	0 34	1 2	2 44	15 24	0 21	9 31	0 49	23 39	1 43	18 22	18 45	20 20	14 12	2 19
S 6	6 25	25 51		12 35	1 7			-		22 47	0 34	1 0	2 44	15 25	0 21	9 31	0 49	23 39	-		-	20 18	-	2 19
M 7	6 48			13 24		11 57		23 22		22 47	0 34	0 58	2 44			9 30	0 50		-		-	20 16		2 19
T 8	7 10 7 33			14 12 14 57	1 28 1 39			23 19 23 17	0 44	22 47 22 47	0 34 0 34	0 57 0 55	2 44 2 44	-	0 21 0 21	9 29 9 29	0 50					20 14 20 12		2 19 2 19
T 10	7 55		-	15 40	1 49	_		23 17		22 47	0 34	0 53	2 44			9 29	0 50					20 12		2 20
F 11	8 17			16 21	1 58			23 12		22 47	0 34	0 51		15 30		9 27	0 50		-		18 40		14 18	2 20
S 12	8 39	5n44	2 40	16 59	2 7	14 11	0 18	23 9	0 51	22 47	0 34	0 50	2 44	15 31	0 21	9 27	0 50	23 39	1 43	18 16	18 40	20 5	14 20	2 20
S 13	9 1	11 50	1 30	17 35	2 15	14 37	0 16	23 7	0 53	22 47	0 34	0 48	2 44	15 32	0 21	9 26	0 50	23 39	1 43	18 16	18 39	20 3	14 21	2 20
M14	9 23		-	18 7	2 23			-		22 47	0 34	0 46				9 25	0 50				18 38		14 22	2 20
T 15	-			18 38	2 29			23 1		22 47	0 34	0 45			1	9 25	0 50					19 59		2 20
W16	10 6		-	19 5	2 35		0 8	22 58		22 47	0 34	0 43	2 44			9 24	0 50					19 57		2 20
T 17 F 18	10 27 10 48		-	19 30 19 52	2 40 2 44		0 6 0 3		1 1 1 1 3	22 47 22 47	0 34 0 34	0 41 0 40	2 44 2 44			9 24 9 23	0 50	23 39 23 39				19 55 19 53		2 20 2 20
S 19	11 9			20 12			0 0	22 48		22 47	0 34	0 38		15 38		9 22		23 39				19 51		2 20
S 20	11 29			20 28	2 49					22 46	0 34	0 37		15 39		9 22		23 39				19 49		2 20
M21	11 50		-	20 42	2 50		011 2	-		22 46	0 34	0 37				9 22	0 50		-			19 49	-	2 20
T 22	12 10			20 53						22 46	0 34	0 34		15 41	0 21	9 21	0 50					19 45		2 20
W23	12 30		4 59		2 48	-		22 34		22 46	0 34	0 32		15 42		9 20	0 50					19 42		2 20
T 24	12 50	7 18	4 32	21 8	2 46	18 54	0 13	22 30	1 15	22 46	0 34	0 31	2 43	15 43	0 21	9 20	0 50	23 39	1 43	18 15	18 30	19 40	14 33	2 20
F 25	13 10	1 48	3 52	21 11	2 42	19 15	0 15	22 26	1 17	22 46	0 34	0 29	2 43	15 44	0 21	9 19	0 50	23 38	1 43	18 14	18 29	19 38	14 34	2 20
S 26	13 29	3 s52	3 0	21 11	2 37	19 35	0 18	22 23	1 19	22 46	0 34	0 28	2 43	15 45	0 21	9 19	0 50	23 38	1 43	18 14	18 28	19 36	14 36	2 20
S 27	13 48	9 31	1 59	21 9	2 31	19 55	0 20	22 19	1 22	22 46	0 34	0 27	2 43	15 46	0 21	9 18	0 50	23 38	1 43	18 13	18 28	19 34	14 37	2 20
M28	14 7	14 52	0 50	21 4	2 23	20 14	0 23	22 15	1 24	22 46	0 34	0 25	2 42	15 47	0 21	9 18	0 50	23 38				19 32		2 20
T 29	14 26			20 57		20 32		22 11		22 46	0 34	0 24		15 48		9 17	0 50					19 30		2 20
W30	14n45	23 s28	1 s36	20n47	2n 5	20n50	0n28	22 s 7	1 s28	22 s45	0n34	0 s23	2n42	15n49	0s21	9s17	0 s 5 0	23n38	1n43	18n13	18n25	19n27	14n40	2 s20

Julian Day Number = 2337314.5, Delta T = 19.76 sec Ecliptic obliquity = 23°28'54, Nutation = -0°00'14, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°22'29, Lahiri = 19°29'29Greg. Calendar

MAY 1687 GC 00:00 UT

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Day	Sid.t	0	D	ğ	Q.	ď	4	ħ)∤(¥	Р	₽.	v	Ç	ķ	Day
T 1	14 36 9	10839'51	23× 7 0	23°R46	2 I 7	28 궁 10	23°R24	7°R 8	14820	8) (14	209522	21842	22824	20€54	16 8 58	T 1
F 2	14 40 6	11°37'54	6 ප 51	23 8 35	3°21	28°42	23 × 20	7 ♀ 5	14°23	8°15	20°22	21°42	22°21	21° 1	17° 3	F 2
S 3	14 44 2	12°35'56	20°51	23°19	4°34	29°13	23°16	7° 1	14°27	8°17	20°23	21°43	22°18	21° 8	17° 7	S 3
S 4	14 47 59	13°33'56	4≈59	22°59	5°47	29°44	23°12	6°58	14°30	8°18	20°24	21°44	22°15	21°14	17°11	S 4
M 5	14 51 56	14°31'56	19°12	22°36	7° 0	0≈15	23° 8	6°55	14°34	8°19	20°25	21°R44	22°12	21°21	17°16	M 5
T 6	14 55 52	15°29'53	3 ∺ 28	22° 9	8°13	0°46	23° 3	6°52	14°37	8°20	20°25	21°43	22° 9	21°28	17°20	T 6
W 7	14 59 49	16°27'50	17°43	21°39	9°26	1°16	22°58	6°49	14°41	8°21	20°26	21°43	22° 5	21°35	17°24	W 7
T 8	15 3 45	17°25'45	1 Y 56	21° 7	10°39	1°47	22°54	6°46	14°44	8°22	20°27	21°42	22° 2	21°41	17°29	T 8
F 9	15 7 42	18°23'38	16° 2	20°33	11°52	2°17	22°49	6°43	14°47	8°24	20°28	21°42	21°59	21°48	17°33	F 9
S 10	15 11 38	19°21'31	29°58	19°58	13° 5	2°47	22°44	6°40	14°51	8°25	20°29	21°42	21°56	21°55	17°37	S 10
S 11	15 15 35	20°19'22	13841	19°23	14°18	3°17	22°38	6°37	14°54	8°26	20°30	21°42	21°53	22° 2	17°42	S 11
M12	15 19 31	21°17'12	27° 8	18°47	15°31	3°46	22°33	6°35	14°58	8°27	20°31	21°42	21°49	22° 8	17°46	M12
T 13	15 23 28	22°15'00	10 Ⅱ 18	18°13	16°44	4°15	22°27	6°32	15° 1	8°27	20°32	21°42	21°46	22°15	17°50	T 13
W14	15 27 25	23°12'47	23°10	17°39	17°57	4°44	22°22	6°30	15° 5	8°28	20°33	21°42	21°43	22°22	17°55	W14
T 15	15 31 21	24°10'32	59945	17° 8	19°10	5°13	22°16	6°27	15° 8	8°29	20°34	21°41	21°40	22°28	17°59	T 15
F 16	15 35 18	25° 8'16	18° 4	16°39	20°22	5°42	22°10	6°25	15°12	8°30	20°35	21°41	21°37	22°35	18° 3	F 16
S 17	15 39 14	26° 5'58	0 Ω 12	16°13	21°35	6°10	22° 4	6°23	15°15	8°31	20°36	21°41	21°34	22°42	18° 8	S 17
S 18	15 43 11	27° 3'39	12°10	15°50	22°48	6°38	21°58	6°21	15°19	8°32	20°37	21°40	21°30	22°49	18°12	S 18
M19	15 47 7	28° 1'18	24° 4	15°30	24° 1	7° 5	21°51	6°19	15°22	8°32	20°38	21°D40	21°27	22°55	18°16	M19
T 20	15 51 4	28°58'55	5 m 58	15°15	25°13	7°33	21°45	6°17	15°25	8°33	20°39	21°40	21°24	23° 2	18°20	T 20
W21	15 55 0	29°56'31	17°56	15° 3	26°26	8° 0	21°38	6°15	15°29	8°34	20°40	21°40	21°21	23° 9	18°25	W21
T 22	15 58 57	0 Ⅱ 54'06	0요 4	14°56	27°38	8°27	21°32	6°13	15°32	8°35	20°41	21°41	21°18	23°16	18°29	T 22
F 23	16 2 54	1°51'39	12°24	14°D53	28°51	8°53	21°25	6°11	15°36	8°35	20°42	21°42	21°15	23°22	18°33	F 23
S 24	16 6 50	2°49'11	25° 1	14°55	099 3	9°19	21°18	6°10	15°39	8°36	20°43	21°43	21°11	23°29	18°37	S 24
S 25	16 10 47	3°46'41	7 M 56	15° 1	1°16	9°45	21°11	6° 8	15°42	8°36	20°44	21°44	21° 8	23°36	18°42	S 25
M26	16 14 43	4°44'11	21°12	15°12	2°28	10°11	21° 4	6° 7	15°46	8°37	20°46	21°R44	21° 5	23°42	18°46	M26
T 27	16 18 40	5°41'39	4 √ 47	15°27	3°40	10°36	20°57	6° 6	15°49	8°37	20°47	21°44	21° 2	23°49	18°50	T 27
W28	16 22 36	6°39'06	18°41	15°46	4°53	11° 1	20°50	6° 5	15°52	8°38	20°48	21°43	20°59	23°56	18°54	W28
T 29	16 26 33	7°36'33	2 궁 49	16°10	6° 5	11°26	20°43	6° 4	15°56	8°38	20°49	21°41	20°55	24° 3	18°59	T 29
F 30	16 30 29	8°33'58	17° 7	16°38	7°17	11°50	20°36	6° 3	15°59	8°39	20°50	21°39	20°52	24° 9	19° 3	F 30
S 31	16 34 26	9 Ⅲ 31′23	1≈31	17811	8929	12≈14	20 ₮ 28	6 ₾ 2	16 8 2	8 ∺ 39	20952	21 8 37	20849	24 Ω 16	19 8 7	S 31

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F 2	-		45 20 21		21 25		21 59		22 45	0 34	0 20		15 51	0 21	9 16		23 38			18 23			2 21
S 3	15 39	26 20 4	32 20 4	1 29	21 41	0 36	21 54	1 35	22 45	0 34	0 19	2 42	15 52	0 21	9 15	0 50	23 38	1 43	18 14	18 23	19 21	14 44	2 21
S 4	15 56	23 57 5	3 19 45	1 15	21 57	0 39	21 50	1 38	22 45	0 34	0 18	2 42	15 53	0 21	9 15	0 50	23 38	1 43	18 14	18 22	19 19	14 45	2 21
M 5	16 14	20 5 5	16 19 25			-	21 46		22 45	0 34	0 17	2 41	15 54	0 21	9 15	0 50	23 38	1 43	18 14	18 21	19 16	14 46	2 21
T 6	16 31	-	10 19 3	-	22 26		21 42		22 44	0 34	0 16	2 41			9 14	0 50				18 20			2 21
W 7	16 47		45 18 39				21 37		22 44	0 33	0 15					0 50				18 19			2 21
T 8	17 4	2 56 4	2 18 14		22 53		21 33		22 44	0 33	0 14		15 58		-					18 19			2 21
F 9	17 20		5 17 49				21 29		22 44	0 33	0 13		15 59				23 37			18 18		14 50	2 21
S 10	17 36	9 39 1 :	57 17 22	0 24	23 18	0 54	21 24	1 53	22 44	0 33	0 12	2 40	16 0	0 20	9 13	0 51	23 37	1 43	18 13	18 17	19 5	14 51	2 21
S 11	17 52	15 16 0	44 16 56	0 42	23 29	0 56	21 20	1 56	22 43	0 33	0 11	2 40	16 1	0 20	9 12	0 51	23 37	1 43	18 13	18 16	19 3	14 53	2 21
M12	18 7	20 3 0n	30 16 30	0 59	23 40	0 58	21 16	1 58	22 43	0 33	0 10	2 40	16 2	0 20	9 12	0 51	23 37	1 43	18 13	18 15	19 1	14 54	2 21
T 13	18 22	_				1 1	21 11	2 1	22 43	0 33	0 9	2 40	16 3	0 20	9 12	0 51	23 37	-		18 14			2 22
W14	18 37	-						2 4		0 33	0 8	2 40			9 11	0 51	23 37			18 14			2 22
T 15	18 51			-			21 3	2 7		0 33	0 8	2 40			9 11	0 51				18 13			2 22
F 16			24 14 52		24 15			2 9		0 33	0 7	2 39			9 11	0 51				18 12			2 22
S 17	19 19	24 56 4 :	55 14 30	2 19	24 22	1 10	20 54	2 12	22 42	0 33	0 6	2 39	16 7	0 20	9 11	0 51	23 36	1 44	18 13	18 11	18 50	14 59	2 22
S 18	19 32	22 10 5	12 14 11	2 32	24 29	1 12	20 50	2 15	22 42	0 33	0 5	2 39	16 8	0 20	9 10	0 51	23 36	1 44	18 13	18 10	18 47	15 0	2 22
M19	19 45	18 29 5	16 13 53	2 45	24 35	1 14	20 46	2 18	22 41	0 33	0 5	2 39	16 9	0 20	9 10	0 51	23 36	1 44	18 13	18 9	18 45	15 1	2 22
T 20	19 58	14 5 5	7 13 38		24 40	1 16	20 41	2 21	22 41	0 33	0 4	2 39	16 10	0 20	9 10	0 51	23 36	1 44	18 13	18 9	18 43	15 2	2 22
W21	20 10		44 13 24		24 44		20 37		22 41	0 33	0 4			0 20					18 13				2 22
T 22	20 23		8 13 13		24 48		20 33		22 40	0 32	0 3		16 12						18 13		18 38		2 23
F 23	20 34	1 s50 3 2		-	24 51				22 40	0 32	0 3		16 13		-		23 36		18 13				2 23
S 24	20 46	7 29 2 2	22 12 58	3 31	24 53	1 24	20 25	2 33	22 40	0 32	0 2	2 38	16 14	0 20	9 9	0 51	23 35	1 44	18 14	18 5	18 34	15 7	2 23
S 25	20 57	12 59 1	16 12 54	3 37	24 54	1 26	20 21	2 37	22 39	0 32	0 2	2 37	16 15	0 20	9 9	0 51	23 35	1 44	18 14	18 4	18 31	15 8	2 23
M26	21 7	18 3 0	3 12 53	3 42	24 55	1 28	20 17	2 40	22 39	0 32	0 2	2 37	16 16	0 20	9 9	0 51	23 35	1 44	18 14	18 4	18 29	15 9	2 23
T 27	-	-	12 12 53		24 55		20 13		22 38	0 32	0 1	2 37	16 17	0 20	9 9	0 51	23 35		18 14	-			2 23
1	21 27		23 12 56		24 55		20 10		22 38	0 32	0 1		16 18			0 51	23 35		18 13		18 25		2 23
1	21 37		28 13 2		24 53	1 33			22 38	0 32	0 1		16 19		-	0 51	23 35		18 13		18 22		2 23
	21 46	-	20 13 9		24 51	1 34			22 37	0 32	0 1		16 20			0 51	23 35		18 13		18 20		2 24
S 31	21n55	24 s40 4 s	56 13n18	3 s5	24n48	1n36	19 s59	2 s 5 6	22 s37	0n32	0s 1	2n36	16n20	0 s 2 0	9s 8	0 s 5 1	23n34	1n44	18n12	17n59	18n18	15n14	2 s24

Julian Day Number = 2337344.5, Delta T = 19.72 sec Ecliptic obliquity = $23^{\circ}28'53$, Nutation = - $0^{\circ}00'15$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}22'33$, Lahiri = $19^{\circ}29'33$ Greg. Calendar

JUNE 1687 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ)∤(¥	Р	ß	Ω	Ç	Ŷ,	Day
S 1	16 38 23	10 Ⅲ 28'47	15≈55	17847	99541	12≈37	20°R21	6°R 1	16 8 5	8) (39	20953	21°R35	20846	24 \O 23	19 8 11	S 1
M 2	16 42 19	11°26'10	0) €16	18°28	10°53	13° 0	20 × 13	6 ₾ 0	16° 9	8°40	20°54	21834	20°43	24°29	19°15	M 2
T 3	16 46 16	12°23'33	14°29	19°13	12° 5	13°23	20° 6	6° 0	16°12	8°40	20°56	21°D33	20°40	24°36	19°19	T 3
W 4	16 50 12	13°20'55	28°34	20° 1	13°17	13°45	19°58	5°59	16°15	8°40	20°57	21°34	20°36	24°43	19°23	W 4
T 5	16 54 9	14°18'17	12 Y 27	20°53	14°29	14° 7	19°51	5°59	16°18	8°40	20°58	21°35	20°33	24°50	19°27	T 5
F 6	16 58 5	15°15'38	26° 9	21°49	15°41	14°28	19°43	5°59	16°21	8°41	21° 0	21°37	20°30	24°56	19°31	F 6
S 7	17 2 2	16°12'59	9 8 39	22°48	16°53	14°49	19°36	5°58	16°25	8°41	21° 1	21°38	20°27	25° 3	19°35	S 7
S 8	17 5 58	17°10'19	22°56	23°51	18° 5	15° 9	19°28	5°D58	16°28	8°41	21° 2	21°R38	20°24	25°10	19°39	S 8
M 9	17 9 55	18° 7'38	6 I I 0	24°58	19°17	15°29	19°20	5°58	16°31	8°41	21° 4	21°38	20°21	25°17	19°43	M 9
T 10	17 13 52	19° 4'58	18°52	26° 7	20°28	15°49	19°13	5°59	16°34	8°41	21° 5	21°35	20°17	25°23	19°47	T 10
W11	17 17 48	20° 2'16	1930	27°21	21°40	16° 8	19° 5	5°59	16°37	8°R41	21° 7	21°32	20°14	25°30	19°51	W11
T 12	17 21 45	20°59'34	13°56	28°37	22°52	16°26	18°57	5°59	16°40	8°41	21° 8	21°28	20°11	25°37	19°55	T 12
F 13	17 25 41	21°56'51	26°10	29°57	24° 3	16°44	18°50	6° 0	16°43	8°41	21° 9	21°22	20° 8	25°43	19°59	F 13
S 14	17 29 38	22°54'08	8 Ω 14	1 Ⅱ 20	25°15	17° 2	18°42	6° 0	16°46	8°41	21°11	21°17	20° 5	25°50	20° 3	S 14
S 15	17 33 34	23°51'23	20°12	2°46	26°26	17°19	18°34	6° 1	16°49	8°41	21°12	21°13	20° 1	25°57	20° 7	S 15
M16	17 37 31	24°48'39	2Mp 4	4°15	27°38	17°35	18°27	6° 1	16°52	8°41	21°14	21° 9	19°58	26° 4	20°10	M16
T 17	17 41 28	25°45'53	13°57	5°48	28°49	17°51	18°19	6° 2	16°55	8°40	21°15	21° 7	19°55	26°10	20°14	T 17
W18	17 45 24	26°43'07	25°54	7°23	0 Ω 1	18° 6	18°12	6° 3	16°57	8°40	21°17	21°D 6	19°52	26°17	20°18	W18
T 19	17 49 21	27°40'20	8 亚 0	9° 2	1°12	18°21	18° 4	6° 4	17° 0	8°40	21°18	21° 7	19°49	26°24	20°22	T 19
F 20	17 53 17	28°37'32	20°19	10°44	2°23	18°35	17°57	6° 5	17° 3	8°40	21°20	21° 8	19°46	26°31	20°25	F 20
S 21	17 57 14	29°34'44	2 M 57	12°29	3°34	18°48	17°49	6° 7	17° 6	8°39	21°21	21° 9	19°42	26°37	20°29	S 21
S 22	18 1 10	0931'55	15°57	14°16	4°45	19° 1	17°42	6° 8	17° 9	8°39	21°23	21°R10	19°39	26°44	20°32	S 22
M23	18 5 7	1°29'06	29°21	16° 7	5°56	19°13	17°35	6° 9	17°11	8°39	21°24	21°10	19°36	26°51	20°36	M23
T 24	18 9 3	2°26'17	13 × 10	18° 0	7° 7	19°25	17°28	6°11	17°14	8°38	21°26	21° 8	19°33	26°57	20°39	T 24
W25	18 13 0	3°23'28	27°23	19°56	8°18	19°36	17°20	6°13	17°17	8°38	21°28	21° 5	19°30	27° 4	20°43	W25
T 26	18 16 57	4°20'38	11 궁 56	21°54	9°29	19°46	17°13	6°14	17°19	8°37	21°29	20°59	19°27	27°11	20°46	T 26
F 27	18 20 53	5°17'48	26°41	23°54	10°40	19°56	17° 6	6°16	17°22	8°37	21°31	20°53	19°23	27°18	20°50	F 27
S 28	18 24 50	6°14'59	11 ≈ 31	25°57	11°50	20° 5	17° 0	6°18	17°25	8°36	21°32	20°46	19°20	27°24	20°53	S 28
S 29	18 28 46	7°12'09	26°18	28° 1	13° 1	20°13	16°53	6°20	17°27	8°36	21°34	20°40	19°17	27°31	20°57	S 29
M30	18 32 43	89 9'19	10) (55	099 7	14 Ω 12	20≈20	16 ₰ 46	6 ₽ 22	17 8 30	8) 35	21935	20836	19814	27 \O 38	218 0	M30

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S 1	22n 3	21s 4	5 s 1 3	13n29	3 s 5 0	24n45	1n37	19 s55	3 s 0	22 s36	0n31	0 s 1	2n36	16n21	0 s 2 0	9s 8	0 s 5 1	23n34	1n44	18n11	17n59	18n15	15n15	2 s24
M 2		16 15		13 42		24 41				22 36	0 31	0 1	2 36	16 22	0 20	9 8	0 51	23 34			17 58			2 24
T 3	22 19			13 57	3 45		-			22 36	0 31	0 1	2 35	-			0 51	23 34				18 11		2 24
W 4	22 26	4 25		14 13	3 41		1 41	19 46		22 35	0 31	0 1	2 35	-	0 20		0 52	23 34			17 56		15 17	2 24
T 5	22 33	1n53	3 19	-	3 37		1 43			22 35	0 31	0 1	2 35	-	0 20		0 52	23 34			17 55		15 18	2 24
F 6	22 40	8 1		14 51	3 32					22 34	0 31	0 1	2 35				0 52				17 54		15 19	2 25
S 7	22 46	13 42	1 5	15 11	3 26	24 9	1 45	19 37	3 21	22 34	0 31	0 1	2 34	16 27	0 20	9 8	0 52	23 33	1 44	18 12	17 54	18 1	15 20	2 25
S 8	22 52	18 39	0n 7	15 33	3 19	24 0	1 46	19 35	3 25	22 33	0 31	0 1	2 34	16 28	0 20	9 8	0 52	23 33	1 44	18 12	17 53	17 59	15 21	2 25
M 9		22 38	1 18	15 56		23 51				22 33	0 31	0 1	2 34	16 29	0 20	9 8	0 52	23 33				17 56		2 25
T 10		25 24		16 20		23 41	-			22 32	0 30	0 2		16 30			0 52					17 54		2 25
W11	23 6			16 44		23 31		19 28		22 32	0 30	0 2		16 30			0 52					17 52		2 25
T 12		26 51	-	17 10	2 47		-			22 31	0 30	0 2		16 31	0 20		0 52	23 32				17 49		2 26
F 13	23 14		4 42		2 38					22 31	0 30	0 3		16 32			0 52		1 45			17 47		2 26
S 14	23 17	23 7	5 3	18 2	2 29	22 56	1 50	19 22	3 48	22 30	0 30	0 3	2 33	16 33	0 20	9 8	0 52	23 32	1 45	18 7	17 48	17 44	15 27	2 26
S 15	23 20	19 42	5 11	18 29	2 18	22 43	1 51	19 21	3 52	22 30	0 30	0 4	2 32	16 34	0 20	9 8	0 52	23 32	1 45			17 42		2 26
M16	23 23					22 29	-			22 29	0 30	0 4		16 35			0 52		1 45			17 40		2 26
T 17	23 25					22 15			4 0	22 29	0 29	0 5	2 32				0 52		1 45			17 37		2 26
	23 26			19 50	1 46	1	-		4 4	-	0 29	0 5		16 36			0 52		1 45			17 35		2 27
	23 28	0 5		20 17		21 45				22 28	0 29	0 6		16 37			0 52		1 45			17 32		2 27
F 20	23 28			20 43		21 29				22 27	0 29	0 7		16 38				23 31	1 45			17 30		2 27
S 21	23 29	10 59	1 37	21 9	1 11	21 12	1 52	19 16	4 16	22 27	0 29	0 7	2 31	16 39	0 20	9 9	0 52	23 31	1 45	18 5	17 42	17 28	15 32	2 27
S 22	23 29	16 11	0 28	21 34	0 59	20 55	1 52	19 16	4 20	22 26	0 29	0 8	2 31	16 39	0 20	9 9	0 52	23 30	1 45	18 5	17 41	17 25	15 33	2 27
M23	23 28	20 46	0 s 44	21 58	0 48	20 37	1 51	19 16	4 24	22 26	0 29	0 9	2 30	16 40	0 20	9 9	0 52	23 30	1 45	18 5	17 40	17 23	15 34	2 27
T 24	23 28	24 21		22 21	0 36	20 19	1 51	19 16	4 29	22 25	0 28	0 10	2 30	16 41	0 20	9 9	0 52	23 30	1 45	18 5	17 39	17 20	15 34	2 28
W25	23 26			22 42	0 24		-			22 25	0 28	0 11	2 30	16 42	0 20	9 9	0 52		1 45			17 18		2 28
T 26	23 25					19 41		19 17		22 24	0 28	0 11	2 30	-			0 52		1 45			17 15		2 28
F 27	23 23			23 20	0 1					22 24	0 28	0 12	2 29	-			0 52		1 45			17 13		2 28
S 28	23 20	22 13	5 4	23 35	0n10	19 1	1 49	19 19	4 46	22 23	0 28	0 13	2 29	16 44	0 20	9 10	0 52	23 29	1 45	17 59	17 36	17 10	15 37	2 28
S 29	23 17	17 34	5 6	23 49	0 21	18 40	1 48	19 21	4 50	22 23	0 28	0 14	2 29	16 45	0 20	9 10	0 52	23 29	1 45	17 57	17 35	17 8	15 38	2 29
M30	23n14	11s56	4 s49	24n 0	0n31	18n19	1n47	19 s22	4 s 5 4	22 s22	0n27	0s15	2n29	16n45	0 s 2 0	9s11	0 s53	23n29	1n45	17n56	17n34	17n 5	15n39	2 s29

Julian Day Number = 2337375.5, Delta T = 19.68 sec Ecliptic obliquity = 23°28'53, Nutation = -0°00'14, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°22'37, Lahiri = 19°29'37Greg. Calendar

JULY 1687 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂ [™]	4	ħ)/(¥	Р	ß	v	Ç	Ŗ	Day
T 1	18 36 39	995 6'30	25) 17	29915	15 Ω 22	20≈27	16°R39	6 ₽ 24	17 8 32	8°R35	219537	20°R33	19811	27 Ω 44	218 3	T 1
W 2	18 40 36	10° 3'41	9 Υ 21	4°23	16°32	20°33	16 ₹ 33	6°27	17°34	8): 34	21°39	20°D32	19° 7	27°51	21° 6	W 2
T 3	18 44 32	11° 0'53	23° 5	6°32	17°43	20°39	16°27	6°29	17°37	8°33	21°40	20 8 33	19° 4	27°58	21°10	T 3
F 4	18 48 29	11°58'05	6 8 33	8°42	18°53	20°43	16°20	6°32	17°39	8°33	21°42	20°34	19° 1	28° 5	21°13	F 4
S 5	18 52 26	12°55'17	19°43	10°52	20° 3	20°47	16°14	6°34	17°42	8°32	21°43	20°R35	18°58	28°11	21°16	S 5
S 6	18 56 22	13°52'30	2Д40	13° 2	21°14	20°50	16° 8	6°37	17°44	8°31	21°45	20°34	18°55	28°18	21°19	S 6
M 7	19 0 19	14°49'43	15°24	15°11	22°24	20°52	16° 2	6°40	17°46	8°30	21°47	20°31	18°52	28°25	21°22	M 7
T 8	19 4 15	15°46'57	27°57	17°20	23°34	20°54	15°56	6°42	17°48	8°30	21°48	20°26	18°48	28°32	21°25	T 8
W 9	19 8 12	16°44'11	109520	19°28	24°44	20°R54	15°51	6°45	17°50	8°29	21°50	20°18	18°45	28°38	21°28	W 9
T 10	19 12 8	17°41'26	22°34	21°35	25°53	20°54	15°45	6°48	17°53	8°28	21°52	20° 9	18°42	28°45	21°31	T 10
F 11	19 16 5	18°38'40	4 Ω 40	23°40	27° 3	20°53	15°40	6°52	17°55	8°27	21°53	19°58	18°39	28°52	21°34	F 11
S 12	19 20 1	19°35'55	16°39	25°45	28°13	20°52	15°34	6°55	17°57	8°26	21°55	19°47	18°36	28°58	21°36	S 12
S 13	19 23 58	20°33'10	28°33	27°48	29°23	20°49	15°29	6°58	17°59	8°25	21°56	19°37	18°33	29° 5	21°39	S 13
M14	19 27 55	21°30'26	10 m 24	29°49	0 m 32	20°46	15°24	7° 1	18° 1	8°24	21°58	19°28	18°29	29°12	21°42	M14
T 15	19 31 51	22°27'42	22°15	1 N 49	1°42	20°42	15°20	7° 5	18° 3	8°23	22° 0	19°22	18°26	29°19	21°44	T 15
W16	19 35 48	23°24'58	4 <u>Ω</u> 10	3°47	2°51	20°37	15°15	7° 8	18° 5	8°22	22° 1	19°18	18°23	29°25	21°47	W16
T 17	19 39 44	24°22'14	16°14	5°44	4° 0	20°32	15°10	7°12	18° 6	8°21	22° 3	19°16	18°20	29°32	21°50	T 17
F 18	19 43 41	25°19'30	28°30	7°38	5° 9	20°26	15° 6	7°16	18° 8	8°20	22° 5	19°D16	18°17	29°39	21°52	F 18
S 19	19 47 37	26°16'47	11 M 5	9°32	6°18	20°19	15° 2	7°20	18°10	8°19	22° 6	19°16	18°13	29°45	21°54	S 19
S 20	19 51 34	27°14'05	24° 2	11°23	7°27	20°11	14°58	7°23	18°12	8°18	22° 8	19°R16	18°10	29°52	21°57	S 20
M21	19 55 30	28°11'22	7 . ₹26	13°13	8°36	20° 3	14°54	7°27	18°13	8°17	22° 9	19°15	18° 7	29°59	21°59	M21
T 22	19 59 27	29° 8'41	2 <u>1</u> °19	15° 0	9°45	19°54	14°50	7°32	18°15	8°15	22°11	19°11	18° 4	0 m) 6	22° 1	T 22
W23	20 3 24	0 ℃ 6'00	5 궁 41	16°47	10°54	19°45	14°47	7°36	18°17	8°14	22°13	19° 5	18° 1	0°12	22° 4	W23
T 24	20 7 20	1° 3'19	20°27	18°31	12° 2	19°34	14°43	7°40	18°18	8°13	22°14	18°57	17°58	0°19	22° 6	T 24
F 25	20 11 17	2° 0'39	5≈30	20°14	13°11	19°24	14°40	7°44	18°20	8°12	22°16	18°47	17°54	0°26	22° 8	F 25
S 26	20 15 13	2°58'00	20°41	21°55	14°19	19°12	14°37	7°48	18°21	8°10	22°18	18°37	17°51	0°33	22°10	S 26
S 27	20 19 10	3°55'22	5 ¥ 50	23°34	15°27	19° 0	14°34	7°53	18°22	8° 9	22°19	18°28	17°48	0°39	22°12	S 27
M28	20 23 6	4°52'45	20°45	25°12	16°35	18°48	14°32	7°57	18°24	8° 8	22°21	18°20	17°45	0°46	22°14	M28
T 29	20 27 3	5°50'09	5 Υ 21	26°48	17°43	18°35	14°29	8° 2	18°25	8° 7	22°22	18°15	17°42	0°53	22°16	T 29
W30	20 30 59	6°47'34	19°33	28°22	18°51	18°21	14°27	8° 7	18°26	8° 5	22°24	18°12	17°39	0°59	22°18	W30
T 31	20 34 56	7 Ω 45'00	3 8 20	29 N 55	19 m 59	18 ≈ 7	14 × 25	8 ≏ 11	18 8 28	8) 4	225526	18°D11	17 8 35	1 Mp 6	22820	T 31

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T 1 W 2	23n10 23 6		3 24n 9 3 24 15	-		1n46 1 1 45 1	-		22 s22 22 21	0n27 0 27	0s17 0 18	2n29 2 28		0 s 2 0 0 2 0	9s11 9 11		23n29 23 28	-	17n55 17 55		17n 3 17 0	15n39 15 40	2 s29 2 29
T 3 F 4 S 5	23 1 22 56 22 51	12 33 1 1:	2 24 19 5 24 19 5 24 17	1 8	16 49	1 44 1 1 43 1 1 42 1	9 31	5 11	22 21 22 20 22 20	0 27 0 27 0 27	0 19 0 20 0 21	2 28	16 47 16 48 16 49		9 11 9 12 9 12	0 53 0 53 0 53	23 28	1 46	17 55 17 55 17 56	17 30			2 29 2 30 2 30
S 6 M 7	22 45 22 39	21 47 1n 4 24 49 2 9	24 12 24 4	1 22 1 28	16 2 15 38	1 40 1 1 39 1	9 37	5 20 5 24	22 19 22 19	0 26 0 26	0 23 0 24	2 27 2 27	16 49 16 50	0 20 0 20	9 12 9 13	0 53 0 53	23 28 23 27	1 46 1 46	17 55 17 55	17 29 17 28	16 50 16 48	15 42 15 43	2 30 2 30
T 8 W 9 T 10 F 11	22 26 22 19	26 58 3 54 26 1 4 30	5 23 54 4 23 41 0 23 25 3 23 7	1 38 1 41	14 48 14 23	1 36 1 1 34 1		5 32 5 36	22 18 22 18 22 18	0 26 0 26 0 26	0 25 0 27 0 28	2 27 2 26	16 51 16 52	0 21 0 21	9 13 9 13 9 14	0 53 0 53	23 27 23 27	1 46 1 46	17 51 17 49	17 26 17 25	16 45 16 43 16 40	15 44 15 45	2 31 2 31 2 31
S 12 S 13			3 23 7 3 22 47 0 22 24	1 47	13 31	1 30 2	19 56 20 0 20 4	5 44	22 17 22 17 22 16	0 26 0 25 0 25	0 29 0 31 0 32	2 26	16 53	0 21	9 14 9 14 9 15			1 46	17 43	17 23	16 38 16 35 16 33	15 46	2 31 2 31 2 32
M14 T 15 W16 T 17 F 18 S 19	21 46 21 36 21 27 21 17 21 7	12 3 4 44 6 59 4 13 1 38 3 36 3 s 50 2 46 9 17 1 48	22 0 5 21 34 6 21 6 6 20 36	1 49 1 49 1 49 1 47 1 46	12 38 12 12 11 44 11 17 10 49	1 26 2 1 24 2 1 21 2 1 19 2	20 9 20 14 20 19 20 24 20 30	5 52 5 56 6 0 6 4 6 7	22 16 22 16	0 25 0 25 0 25 0 25 0 24 0 24 0 24	0 32 0 34 0 35 0 37 0 39 0 40 0 42	2 26 2 25 2 25 2 25 2 25 2 25	16 54 16 54 16 55 16 55	0 21 0 21 0 21 0 21 0 21 0 21	9 15 9 16 9 16 9 16 9 17 9 17	0 53 0 53 0 53 0 53 0 53	23 26 23 26 23 26 23 25	1 46 1 46 1 46 1 46 1 46	17 38 17 36 17 35 17 34 17 34	17 22 17 21 17 20 17 19 17 18	16 30	15 46 15 47 15 47 15 48 15 48	2 32 2 32 2 32 2 32 2 33 2 33 2 33
S 20 M21 T 22 W23 T 24 F 25 S 26	19 58	23 9 1 3: 25 53 2 4 27 1 3 40 26 17 4 2: 23 40 4 5:	5 18 26 1 17 51 0 17 14 5 16 38	1 33 1 28 1 24 1 18	8 27 7 58 7 29	1 5 2	20 47 20 53 20 59 21 5 21 11	6 18 6 21 6 24 6 27 6 30	22 14 22 14 22 14 22 13 22 13 22 13 22 13	0 24 0 24 0 24 0 23 0 23 0 23 0 23	0 44 0 46 0 47 0 49 0 51 0 53 0 55	2 24 2 24 2 24 2 23 2 23	16 57 16 58 16 58 16 59 16 59 16 59	0 21 0 21	9 18 9 18 9 19 9 19 9 20 9 20 9 21	0 53 0 53 0 53 0 53 0 53	23 24 23 24 23 24	1 47 1 47 1 47 1 47 1 47	17 34 17 33 17 32 17 29 17 27	17 15 17 15 17 14 17 13 17 12	16 5	15 49 15 50 15 50 15 50 15 51	2 33 2 34 2 34 2 34 2 34 2 35 2 35
S 27 M28 T 29 W30 T 31	19 5 18 51 18 36	7 34 4 13 1 1 3 20 5n25 2 23	3 14 44 5 14 5 6 13 26 5 12 47 8 12n 7	1 0 0 53 0 46	6 1 5 31 5 1	0 49 2 0 46 2 0 43 2 0 39 2 0n35 2	21 30 21 36 21 42	6 37 6 39 6 42	22 13 22 13 22 13 22 13 22 13 22 s12	0 23 0 22 0 22 0 22 0n22	0 57 0 59 1 1 1 3 1s 5	2 22	17 0 17 1 17 1		9 21 9 22 9 22 9 23 9 s23	0 53 0 53 0 53	23 23	1 47 1 47 1 47	17 19 17 18 17 17	17 9 17 8 17 7	15 52	15 51 15 52 15 52	2 35 2 35 2 36 2 36 2 s36

Julian Day Number = 2337405.5, Delta T = 19.63 sec Ecliptic obliquity = $23^{\circ}28'53$, Nutation = - $0^{\circ}00'12$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}22'41$, Lahiri = $19^{\circ}29'41$ Greg. Calendar

AUGUST 1687 GC 00:00 UT

Day	Sid.t	0)	ğ	φ	ď	4	ħ)∤(,	В	S.	Ω	Ç	ę,	Day
F 1	20 38 53	8 Ω 42'28	16843	1 m) 26	21 m/ 6	17°R53	14°R23	8 ₾ 16	18829	8°R 3	229527	18°R11	17 8 32	1 m) 13	22821	F 1
S 2	20 42 49	9°39'57	29°45	2°55	22°14	17 ≈ 38	14 × 721	8°21	18°30	8 ∺ 1	22°29	18 8 11	17°29	1°20	22°23	S 2
S 3	20 46 46	10°37'27	12П29	4°22	23°21	17°23	14°20	8°26	18°31	8° 0	22°30	18° 9	17°26	1°26	22°25	S 3
M 4	20 50 42	11°34'59	25° 0	5°48	24°28	17° 8	14°18	8°31	18°32	7°58	22°32	18° 5	17°23	1°33	22°26	M 4
T 5	20 54 39	12°32'32	79519	7°12	25°35	16°53	14°17	8°36	18°33	7°57	22°33	17°58	17°19	1°40	22°28	T 5
W 6	20 58 35	13°30'06	19°29	8°34	26°42	16°37	14°16	8°41	18°34	7°55	22°35	17°48	17°16	1°46	22°29	W 6
T 7	21 2 32	14°27'42	1 .0 33	9°54	27°49	16°21	14°15	8°46	18°35	7°54	22°36	17°36	17°13	1°53	22°31	T 7
F 8	21 6 29	15°25'19	13°31	11°13	28°56	16° 5	14°14	8°52	18°36	7°52	22°38	17°22	17°10	2° 0	22°32	F 8
S 9	21 10 25	16°22'57	25°25	12°29	0요 2	15°49	14°14	8°57	18°36	7°51	22°40	17° 8	17° 7	2° 7	22°33	S 9
S 10	21 14 22	17°20'36	7 m) 17	13°44	1° 9	15°33	14°14	9° 2	18°37	7°49	22°41	16°55	17° 4	2°13	22°34	S 10
M11	21 18 18	18°18'16	19° 7	14°57	2°15	15°17	14°D14	9° 8	18°38	7°48	22°43	16°43	17° 0	2°20	22°36	M11
T 12	21 22 15	19°15'57	0 ჲ 59	16° 7	3°21	15° 2	14°14	9°13	18°39	7°46	22°44	16°34	16°57	2°27	22°37	T 12
W13	21 26 11	20°13'40	12°55	17°15	4°27	14°46	14°14	9°19	18°39	7°45	22°46	16°28	16°54	2°33	22°38	W13
T 14	21 30 8	21°11'24	24°58	18°21	5°32	14°31	14°15	9°25	18°40	7°43	22°47	16°25	16°51	2°40	22°39	T 14
F 15	21 34 4	22° 9'08	7 M .13	19°25	6°38	14°15	14°15	9°30	18°40	7°42	22°48	16°23	16°48	2°47	22°39	F 15
S 16	21 38 1	23° 6'54	19°45	20°26	7°43	14° 1	14°16	9°36	18°41	7°40	22°50	16°23	16°45	2°54	22°40	S 16
S 17	21 41 57	24° 4'42	2 ₹ 38	21°24	8°48	13°46	14°17	9°42	18°41	7°39	22°51	16°23	16°41	3° 0	22°41	S 17
M18	21 45 54	25° 2'30	15°56	22°20	9°53	13°32	14°18	9°48	18°41	7°37	22°53	16°22	16°38	3° 7	22°42	M18
T 19	21 49 51	26° 0'20	29°44	23°13	10°58	13°18	14°20	9°54	18°42	7°35	22°54	16°19	16°35	3°14	22°42	T 19
W20	21 53 47	26°58'10	14중 1	24° 3	12° 3	13° 5	14°21	10° 0	18°42	7°34	22°56	16°13	16°32	3°21	22°43	W20
T 21	21 57 44	27°56'03	28°46	24°49	13° 7	12°52	14°23	10° 6	18°42	7°32	22°57	16° 5	16°29	3°27	22°43	T 21
F 22	22 1 40	28°53'56	13≈52	25°32	14°11	12°40	14°25	10°12	18°42	7°31	22°58	15°55	16°25	3°34	22°44	F 22
S 23	22 5 37	29°51'51	29°11	26°11	15°15	12°28	14°27	10°18	18°42	7°29	23° 0	15°44	16°22	3°41	22°44	S 23
S 24	22 9 33	0 m 49'47	14) (30	26°47	16°19	12°17	14°30	10°24	18°R42	7°27	23° 1	15°34	16°19	3°47	22°45	S 24
M25	22 13 30	1°47'45	29°39	27°18	17°22	12° 7	14°32	10°30	18°42	7°26	23° 2	15°26	16°16	3°54	22°45	M25
T 26	22 17 26	2°45'45	14 Υ 29	27°44	18°25	11°57	14°35	10°37	18°42	7°24	23° 4	15°21	16°13	4° 1	22°45	T 26
W27	22 21 23	3°43'46	28°52	28° 6	19°28	11°48	14°38	10°43	18°42	7°22	23° 5	15°18	16°10	4° 8	22°45	W27
T 28	22 25 20	4°41'50	12847	28°24	20°31	11°39	14°41	10°49	18°42	7°21	23° 6	15°D17	16° 6	4°14	22°R45	T 28
F 29	22 29 16	5°39'56	26°15	28°35	21°33	11°31	14°44	10°56	18°42	7°19	23° 8	15°17	16° 3	4°21	22°45	F 29
S 30	22 33 13	6°38'03	9П18	28°42	22°36	11°24	14°47	11° 2	18°42	7°17	23° 9	15°R17	16° 0	4°28	22°45	S 30
S 31	22 37 9	7 m 36'13	21 II 59	28°R42	23 ≏ 37	11 ≈ 18	14 ∡ 751	11 º 9	18 8 41	7) €16	239510	15 8 16	15 8 57	4 m 34	22 8 45	S 31

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F 1 S 2	18n 7 17 52		11n27 0n3 10 48 0 2			22 s12 0n22 22 12 0 21	1 s 7 2n22 1 9 2 22	17n 2 0s21 17 2 0 21			17n17 17n 17 17 17		15n52 2s36 15 52 2 37
S 3 M 4 T 5 W 6		26 24 3 1 27 5 3 48 26 25 4 24	9 29 0 8 50 0s 8 10 0 1	5 2 30 0 20 22 4 2 0 0 16 22 13 1 29 0 12 22	13 6 49 19 6 50 24 6 51	22 12 0 21 22 12 0 21 22 12 0 21 22 13 0 21	1 11 2 21 1 13 2 21 1 15 2 21 1 17 2 21	17 2 0 21 17 3 0 21 17 3 0 21	9 25 0 54 9 25 0 54 9 26 0 54 9 27 0 54	23 22 1 48 23 22 1 48 23 22 1 48	17 16 17 17 15 17 17 13 17 17 10 17	2 15 33 1 15 31	15 53 2 37 15 53 2 37 15 53 2 38
T 7 F 8 S 9	16 14	24 32 4 48 21 33 4 59 17 43 4 56	6 53 0 3 6 6 15 0 4	31 0 28 0 3 22 41 0s 2 0s 1 22	35 6 52 40 6 52	22 13 0 21 22 13 0 20 22 13 0 20	1 20 2 21 1 22 2 21 1 24 2 20			23 21 1 48 23 21 1 48	17 3 16 5 16 59 16 5	59 15 25 58 15 23	15 53 2 38
S 10 M11 T 12 W13	15 40 15 22 15 4 14 46	8 12 4 14 2 54 3 35	5 1 1 4 24 1 1	1 1 3 0 10 22 11 1 34 0 15 22	49 6 52 54 6 51	22 13 0 20 22 13 0 20 22 13 0 20 22 14 0 19	1 26 2 20 1 29 2 20 1 31 2 20 1 33 2 20	17 4 0 21 17 4 0 21	9 29 0 54 9 29 0 54 9 30 0 54 9 31 0 54	23 21 1 48 23 21 1 48	16 55 16 5 16 52 16 5 16 49 16 5 16 47 16 5	57 15 17 56 15 15	15 53 2 39 15 53 2 39
T 14 F 15 S 16		13 11 0 48 17 59 0s18	2 39 1 4 2 6 1 5	41 3 5 0 29 23 51 3 35 0 34 23	5 6 49 9 6 48	22 14 0 19 22 14 0 19 22 14 0 19	1 36 2 20 1 38 2 19 1 41 2 19	17 5 0 21 17 5 0 21	9 32 0 54 9 32 0 54	23 20 1 49 23 20 1 49	16 46 16 5 16 46 16 5 16 46 16 5	53 15 7 52 15 4	15 53 2 40 15 53 2 40 15 53 2 40
S 17 M18 T 19 W20 T 21	12 52 12 33 12 13		1 2 2 1 0 32 2 2 0 3 2 3 0 s25 2 4	12 4 36 0 44 23 22 5 6 0 49 23 32 5 36 0 54 23 42 6 6 0 59 23	14 6 45 17 6 43 19 6 41 20 6 39	22 15 0 19 22 15 0 19 22 15 0 18 22 16 0 18 22 16 0 18	1 43 2 19 1 45 2 19 1 48 2 19 1 50 2 19 1 53 2 19	17 5 0 21 17 5 0 21 17 5 0 21 17 5 0 21	9 34 0 54 9 34 0 54 9 35 0 54 9 35 0 54	23 20 1 49 23 19 1 49 23 19 1 49 23 19 1 49	16 46 16 5 16 45 16 4 16 43 16 4 16 41 16 4	50 14 59 19 14 56 19 14 53 18 14 50	15 53 2 41 15 53 2 41 15 53 2 42
F 22 S 23 S 24		16 21 4 53 10 10 4 24	1 15 3 1 38 3 1	1 7 5 1 10 23 11 7 35 1 15 23	23 6 3424 6 31	22 16 0 18 22 17 0 18 22 17 0 18	1 55 2 18 1 58 2 18 2 0 2 18	17 5 0 21 17 5 0 21	9 37 0 54 9 37 0 54	23 19 1 49 23 19 1 49	16 38 16 4 16 35 16 4 16 32 16 4	16 14 45 15 14 42	15 52 2 42 15 52 2 43
M25 T 26 W27 T 28	10 51 10 30 10 9 9 48	9 45 1 26	2 17 3 2 2 33 3 3	28 8 33 1 26 23 37 9 2 1 31 23 44 9 31 1 37 23	24 6 26 24 6 23 23 6 20	22 18 0 17 22 18 0 17 22 19 0 17 22 19 0 17	2 3 2 18 2 5 2 18 2 8 2 18 2 11 2 18	17 5 0 21 17 5 0 21	9 38 0 54 9 39 0 54 9 39 0 54 9 40 0 54	23 18 1 50 23 18 1 50 23 18 1 50	16 30 16 4 16 28 16 4 16 27 16 4 16 27 16 4	13 14 37 12 14 34 11 14 31	15 52 2 43 15 51 2 43 15 51 2 44
F 29 S 30 S 31	9 6	20 17 0n58 23 55 2 4 26n16 3n 2	3 7 3 5	58 10 28 1 48 23	21 6 13	22 20 0 17 22 20 0 17 22 s21 0n16	2 13 2 18 2 16 2 18 2 s19 2 n17			23 18 1 50	16 27 16 4 16 27 16 3 16n27 16n3	14 26	15 51 2 44

Julian Day Number = 2337436.5, Delta T = 19.59 sec

Ecliptic obliquity = 23°28'54, Nutation = -0°00'11, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°22'45, Lahiri = 19°29'46Greg. Calendar

SEPTEMBER 1687 GC 00:00 UT

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Day	Sid.t	0	D	ğ	·	ď	4	ħ)∤(¥	Р	n	ß	Ç	Ŷ,	Day
M 1	22 41 6	8 Mp 34'25	49524	28°R36	24 ₽ 39	11°R12	14 × 755	11 ≏ 15	18°R41	7°R14	239511	15°R13	15 8 54	4 Mp 41	22°R45	M 1
T 2	22 45 2	9°32'38	16°36	28 m 24	25°40	11≈ 7	14°59	11°22	18 8 40	7) 12	23°12	15 8 8	15°51	4°48	22 8 45	T 2
W 3	22 48 59	10°30'54	28°38	28° 6	26°41	11° 3	15° 3	11°28	18°40	7°11	23°14	15° 0	15°47	4°55	22°44	W 3
T 4	22 52 55	11°29'11	10 Ω 35	27°41	27°42	11° 0	15° 7	11°35	18°39	7° 9	23°15	14°49	15°44	5° 1	22°44	T 4
F 5	22 56 52	12°27'31	22°28	27°10	28°43	10°57	15°11	11°42	18°39	7° 8	23°16	14°38	15°41	5° 8	22°43	F 5
S 6	23 0 49	13°25'52	4 Mp 20	26°32	29°43	10°55	15°16	11°48	18°38	7° 6	23°17	14°26	15°38	5°15	22°43	S 6
S 7	23 4 45	14°24'15	16°12	25°48	0 M .42	10°54	15°21	11°55	18°38	7° 4	23°18	14°15	15°35	5°21	22°42	S 7
M 8	23 8 42	15°22'40	28° 5	24°59	1°42	10°D54	15°26	12° 2	18°37	7° 3	23°19	14° 5	15°31	5°28	22°42	M 8
T 9	23 12 38	16°21'07	10☎ 1	24° 5	2°41	10°55	15°31	12° 9	18°36	7° 1	23°20	13°57	15°28	5°35	22°41	T 9
W10	23 16 35	17°19'36	22° 2	23° 7	3°40	10°56	15°36	12°16	18°35	6°59	23°22	13°52	15°25	5°42	22°40	W10
T 11	23 20 31	18°18'06	4 M .11	22° 6	4°38	10°59	15°41	12°23	18°35	6°58	23°23	13°50	15°22	5°48	22°39	T 11
F 12	23 24 28	19°16'38	16°31	21° 3	5°36	11° 2	15°47	12°29	18°34	6°56	23°24	13°D50	15°19	5°55	22°38	F 12
S 13	23 28 24	20°15'12	29° 5	20° 0	6°33	11° 6	15°53	12°36	18°33	6°55	23°25	13°50	15°16	6° 2	22°37	S 13
S 14	23 32 21	21°13'48	11 × 758	18°58	7°30	11°11	15°59	12°43	18°32	6°53	23°26	13°51	15°12	6° 8	22°36	S 14
M15	23 36 18	22°12'25	25°12	17°59	8°27	11°16	16° 5	12°50	18°31	6°51	23°27	13°R52	15° 9	6°15	22°35	M15
T 16	23 40 14	23°11'04	8 국 51	17° 4	9°23	11°23	16°11	12°57	18°30	6°50	23°27	13°50	15° 6	6°22	22°34	T 16
W17	23 44 11	24° 9'45	22°57	16°15	10°18	11°30	16°17	13° 5	18°28	6°48	23°28	13°47	15° 3	6°29	22°33	W17
T 18	23 48 7	25° 8'27	7≈29	15°33	11°13	11°38	16°24	13°12	18°27	6°47	23°29	13°42	15° 0	6°35	22°32	T 18
F 19	23 52 4	26° 7'11	22°23	14°59	12° 8	11°46	16°30	13°19	18°26	6°45	23°30	13°36	14°56	6°42	22°30	F 19
S 20	23 56 0	27° 5'57	7) €32	14°34	13° 2	11°56	16°37	13°26	18°25	6°44	23°31	13°29	14°53	6°49	22°29	S 20
S 21	23 59 57	28° 4'44	22°46	14°18	13°55	12° 6	16°44	13°33	18°23	6°42	23°32	13°22	14°50	6°55	22°27	S 21
M22	0 3 53	29° 3'34	7 ⋎ 54	14°D13	14°48	12°17	16°51	13°40	18°22	6°41	23°33	13°16	14°47	7° 2	22°26	M22
T 23	0 7 50	0 ♀ 2'25	22°47	14°17	15°40	12°28	16°58	13°47	18°21	6°39	23°33	13°13	14°44	7° 9	22°24	T 23
W24	0 11 47	1° 1'19	7 8 18	14°32	16°32	12°40	17° 6	13°54	18°19	6°38	23°34	13°D11	14°41	7°16	22°23	W24
T 25	0 15 43	2° 0'15	21°21	14°57	17°23	12°53	17°13	14° 2	18°18	6°36	23°35	13°11	14°37	7°22	22°21	T 25
F 26	0 19 40	2°59'14	4 Ⅱ 57	15°31	18°13	13° 7	17°21	14° 9	18°16	6°35	23°36	13°12	14°34	7°29	22°19	F 26
S 27	0 23 36	3°58'14	18° 6	16°14	19° 3	13°21	17°29	14°16	18°15	6°33	23°36	13°14	14°31	7°36	22°17	S 27
S 28	0 27 33	4°57'17	0951	17° 6	19°51	13°36	17°37	14°23	18°13	6°32	23°37	13°R15	14°28	7°42	22°16	S 28
M29	0 31 29	5°56'23	13°17	18° 5	20°40	13°51	17°45	14°31	18°12	6°31	23°38	13°15	14°25	7°49	22°14	M29
T 30	0 35 26	6 ♀ 55'30	259528	19 m 11	21ML27	14≈ 7	17 ×7 53	14 ₽ 38	18810	6 ∺ 29	23938	13813	14822	7 m 56	22812	T 30

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	decl	decl lat	decl lat	decl lat	decl lat	decl lat	de	cl lat	decl	lat	decl lat	decl lat	de	cl decl	decl	decl la	ıt
M 1	8n22	27n14 3n50	3 s 1 4 s	8 11 s24 1 s59	23 s18 6s 6	22 s21 Or	n16 2 s2	21 2n17	17n 5	0 s21	9s42 0s54	23n18 1	n50 16n	26 16n38	14n20	15n50 2	2 s45
T 2	8 0	26 51 4 26	3 13 4 1				16 2 2	-		0 21	9 43 0 54			24 16 37			2 45
W 3	7 38	25 13 4 51	3 8 4 1				16 2 2			0 21	9 44 0 54			22 16 36	-		2 45
T 4	7 16	22 27 5 2	2 59 4 1			-	16 2 2	-		0 21	9 44 0 54			19 16 35			2 46
F 5		18 46 5 0	2 47 4 1	-			16 2 3	-		0 21	9 45 0 54			15 16 34			2 46
S 6	6 31	14 21 4 45	2 30 4 1	14 13 41 2 27	23 4 5 47	22 25 0	15 2 3	35 2 17	17 4	0 21	9 45 0 54	23 17 1	51 16	12 16 33	14 7	15 48 2	2 46
S 7	6 9	9 25 4 18	2 9 4 1	10 14 8 2 33	23 1 5 43	22 25 0	15 2 3	37 2 17	17 4	0 21	9 46 0 54	23 17 1	51 16	8 16 32	14 4	15 48 2	2 46
M 8	5 46	4 7 3 39	1 45 4	5 14 34 2 39	22 57 5 39	22 26 0	15 2 4	40 2 17	17 3	0 21	9 47 0 54	23 17 1	51 16	6 16 31	14 1	15 47 2	2 47
T 9	5 24	1 s22 2 51	1 17 3 5	58 15 0 2 44	22 53 5 35	22 27 0	15 2 4	43 2 17	17 3	0 21	9 47 0 54	23 17 1	51 16	3 16 30	13 58	15 47 2	2 47
W10	5 1	6 50 1 54	0 45 3 4	18 15 25 2 50	22 48 5 3	22 27 0	15 2 4	46 2 16	17 3	0 21	9 48 0 54	23 17 1	51 16	2 16 29	13 55	15 47 2	2 47
T 11	4 38	12 8 0 51	0 11 3 3			22 28 0	15 2 4	48 2 16	17 3	0 21	9 48 0 54	23 17 1	51 16	1 16 28	13 53	15 46 2	2 47
F 12	4 15	17 2 0s14	0n26 3 2				14 2 5	-		0 21	9 49 0 54		51 16	1 16 27			2 48
S 13	3 52	21 19 1 21	1 4 3	9 16 40 3 7	22 34 5 18	3 22 30 0	14 2 5	54 2 16	17 2	0 21	9 50 0 54	23 17 1	51 16	1 16 26	13 47	15 45 2	2 48
S 14	3 29	24 40 2 25	1 43 2 5	53 17 5 3 13	22 28 5 14	22 30 0	14 2 5	57 2 16	17 2	0 21	9 50 0 54	23 17 1	52 16	2 16 26	13 44	15 45 2	2 48
M15	3 6	26 47 3 24	2 23 2 3	35 17 29 3 19	22 23 5 9	22 31 0	14 2 5	59 2 16	17 2	0 21	9 51 0 54	23 17 1	52 16	2 16 25	13 41	15 44 2	2 49
T 16	2 43	27 23 4 12	3 1 2 1	16 17 52 3 25	22 17 5 5	22 32 0	14 3	2 2 16	17 1	0 21	9 51 0 54	23 16 1	52 16	1 16 24	13 39	15 43 2	2 49
W17	2 19	26 15 4 48	3 38 1 5	57 18 16 3 30	22 10 5	22 33 0	14 3	5 2 16	17 1	0 21	9 52 0 54	23 16 1	52 16	0 16 23	13 36	15 43 2	2 49
T 18	1 56	23 21 5 6	4 13 1 3	37 18 38 3 36	22 4 4 50	22 34 0	14 3	8 2 16	17 1	0 21	9 53 0 54	23 16 1	52 15	59 16 22	13 33	15 42 2	2 49
F 19	1 33	18 52 5 4	4 45 1 1	17 19 1 3 41	21 58 4 52	2 22 34 0	13 3 1	11 2 16	17 0	0 21	9 53 0 54	23 16 1	52 15	57 16 21	13 30	15 42 2	2 50
S 20	1 9	13 6 4 41	5 13 0 5	57 19 23 3 47	21 51 4 48	22 35 0	13 3	13 2 16	17 0	0 21	9 54 0 54	23 16 1	52 15	55 16 20	13 27	15 41 2	2 50
S 21	0 46	6 32 3 58	5 37 0 3	37 19 45 3 53	21 44 4 43	22 36 0	13 3 1	16 2 16	17 0	0 21	9 54 0 54	23 16 1	52 15	53 16 19	13 25	15 40 2	2 50
M22	0 22	0n24 2 59	5 56 0 1	19 20 6 3 58	21 36 4 39	22 37 0	13 3 1	19 2 16	16 59	0 21	9 55 0 54	23 16 1	52 15	51 16 18	13 22	15 40 2	2 50
T 23	0 s 1	7 12 1 48	6 11 0	1 20 27 4 4	21 29 4 35	22 38 0	13 3 2	22 2 16	16 59	0 21	9 55 0 54	23 16 1	52 15	50 16 17	13 19	15 39 2	2 51
W24	0 24	13 28 0 32	6 21 0n1	16 20 47 4 9	21 21 4 3	22 39 0	13 3 2	25 2 16	16 58	0 21	9 56 0 54	23 16 1	53 15	19 16 16	13 16	15 39 2	2 51
T 25	0 48	18 51 0n44	6 26 0 3	32 21 7 4 14	21 14 4 20	22 40 0	13 3 2	28 2 16	16 58	0 21	9 56 0 54	23 16 1	53 15	50 16 15	13 13	15 38 2	2 51
F 26	1 11	23 3 1 55	6 25 0 4	16 21 26 4 20	21 6 4 22	2 2 40 0	12 3 3	30 2 16	16 58	0 21	9 57 0 54	23 16 1	53 15	50 16 14	13 10	15 37 2	2 51
S 27	1 35	25 54 2 58	6 21 0 5	59 21 45 4 25	20 58 4 18	22 41 0	12 3 3	33 2 16	16 57	0 21	9 58 0 54	23 16 1	53 15	50 16 13	13 8	15 36 2	2 52
S 28	1 58	27 19 3 50	6 11 1 1	10 22 4 4 30	20 49 4 14	22 42 0	12 3 3	36 2 16	16 57	0 21	9 58 0 54	23 16 1	53 15	51 16 12	13 5	15 36 2	2 52
M29	2 22	27 17 4 30	5 57 1 2	21 22 22 4 35	20 41 4 10	22 43 0	12 3 3	39 2 16	16 56	0 21	9 59 0 54	23 16 1	53 15	51 16 11	13 2	15 35 2	2 52
T 30	2 s45	25n56 4n56	5n40 1n3	30 22 s40 4 s40	20 s32 4s 5	22 s44 Or	n12 3 s4	42 2n16	16n56	0s21	9s59 0s54	23n16 1	n53 15n	50 16n11	12n59	15n34	2 s52

 $\label{eq:Julian Day Number = 2337467.5} \ Delta\ T = 19.55\ sec$ $Ecliptic\ obliquity = 23°28'54, Nutation = -0°00'11, out-of-bounds\ declination\ in\ red$ $Ayanamsha:\ Fagan/Bradley = 20°22'50,\ Lahiri = 19°29'50Greg.\ Calendar$

OCTOBER 1687 GC 00:00 UT

Day	Sid.t	0	D	ğ	Ω	♂ ¹	4	ħ)∤(¥	В	R	Ω	Ç	ķ	Day
W 1	0 39 22	7 ≙ 54'40	7 Ω 28	20 m 24	22 M ₋ 13	14≈24	18 7 1	14 Ω 45	18°R 8	6°R28	23939	13°R10	14818	8 mp 3	22°R10	W 1
T 2	0 43 19	8°53'53	19°23	21°42	22°59	14°42	18°10	14°53	18 8 6	6 ¥ 26	23°40	138 5	14°15	8° 9	22 K10	T 2
F 3	0 47 16	9°53'07	1 mp 14	23° 4	23°44	14°59	18°18	15° 0	18° 5	6°25	23°40	12°59	14°12	8°16	22° 5	F 3
S 4	0 51 12	10°52'24	13° 5	24°31	24°27	15°18	18°27	15° 7	18° 3	6°24	23°41	12°53	14° 9	8°23	22° 3	S 4
S 5	0 55 9	11°51'43	24°59	26° 2	25°10	15°37	18°36	15°15	18° 1	6°23	23°41	12°47	14° 6	8°29	22° 1	S 5
M 6	0 59 5	12°51'03	24 39 6 Ω 58	27°35	25°52	15°57	18°45	15°22	17°59	6°21	23°42	12°47	14° 0	8°36	21°59	M 6
T 7	1 3 2	13°50'27	19° 3	29°11	26°33	16°17	18°54	15°29	17°57	6°20	23°42	12°39	13°59	8°43	21°56	T 7
W 8	1 6 58	14°49'52	1 M .16	0 <u>₽</u> 49	27°13	16°37	19° 3	15°37	17°55	6°19	23°43	12°37	13°56	8°49	21°54	W 8
T 9	1 10 55	15°49'19	13°38	2°29	27°51	16°59	19°12	15°44	17°53	6°18	23°43	12°D36	13°53	8°56	21°52	T 9
F 10	1 14 51	16°48'48	26°11	4° 9	28°28	17°20	19°22	15°51	17°51	6°17	23°43	12°37	13°50	9° 3	21°49	F 10
S 11	1 18 48	17°48'19	8 ∡ 757	5°51	29° 5	17°43	19°31	15°59	17°49	6°15	23°44	12°38	13°47	9°10	21°47	S 11
S 12	1 22 44	18°47'52	21°58	7°33	29°39	18° 5	19°41	16° 6	17°47	6°14	23°44	12°40	13°43	9°16	21°44	S 12
M13	1 26 41	19°47'26	5 중 16	9°16	0 x ⁷ 13	18°29	19°51	16°13	17°45	6°13	23°44	12°41	13°40	9°23	21°42	M13
T 14	1 30 38	20°47'03	18°52	10°59	0°45	18°52	20° 1	16°21	17°43	6°12	23°45	12°R42	13°37	9°30	21°39	T 14
W15	1 34 34	21°46'41	2≈49	12°41	1°16	19°16	20°11	16°28	17°41	6°11	23°45	12°41	13°34	9°36	21°36	W15
T 16	1 38 31	22°46'21	17° 5	14°24	1°45	19°41	20°21	16°35	17°39	6°10	23°45	12°40	13°31	9°43	21°33	T 16
F 17	1 42 27	23°46'02	1 ₩ 38	16° 7	2°13	20° 6	20°31	16°42	17°36	6° 9	23°45	12°38	13°28	9°50	21°31	F 17
S 18	1 46 24	24°45'45	16°24	17°50	2°39	20°31	20°41	16°50	17°34	6° 8	23°46	12°36	13°24	9°57	21°28	S 18
S 19	1 50 20	25°45'30	1 Υ 16	19°32	3° 3	20°57	20°52	16°57	17°32	6° 7	23°46	12°34	13°21	10° 3	21°25	S 19
M20	1 54 17	26°45'17	16° 7	21°14	3°25	21°23	21° 2	17° 4	17°30	6° 6	23°46	12°32	13°18	10°10	21°22	M20
T 21	1 58 13	27°45'05	0849	22°55	3°46	21°50	21°13	17°12	17°27	6° 5	23°46	12°31	13°15	10°17	21°19	T 21
W22	2 2 10	28°44'56	15°14	24°36	4° 5	22°17	21°24	17°19	17°25	6° 5	23°46	12°D30	13°12	10°23	21°16	W22
T 23	2 6 7	29°44'49	29°18	26°16	4°22	22°44	21°34	17°26	17°23	6° 4	23°46	12°31	13° 8	10°30	21°13	T 23
F 24	2 10 3	0 M .44'44	12 Ⅲ 57	27°56	4°36	23°12	21°45	17°33	17°20	6° 3	23°46	12°32	13° 5	10°37	21°10	F 24
S 25	2 14 0	1°44'41	26°12	29°36	4°49	23°40	21°56	17°40	17°18	6° 2	23°R46	12°33	13° 2	10°44	21° 7	S 25
S 26	2 17 56	2°44'40	995 3	1 M .15	5° 0	24° 8	22° 7	17°48	17°15	6° 1	23°46	12°34	12°59	10°50	21° 4	S 26
M27	2 21 53	3°44'42	21°33	2°54	5° 8	24°37	22°18	17°55	17°13	6° 1	23°46	12°34	12°56	10°57	21° 1	M27
T 28	2 25 49	4°44'45	3 Ω 47	4°32	5°15	25° 6	22°30	18° 2	17°11	6° 0	23°46	12°R35	12°53	11° 4	20°58	T 28
W29	2 29 46	5°44'51	15°49	6°10	5°19	25°35	22°41	18° 9	17° 8	5°59	23°46	12°35	12°49	11°10	20°55	W29
T 30	2 33 42	6°44'58	27°43	7°47	5°R20	26° 5	22°52	18°16	17° 6	5°59	23°46	12°34	12°46	11°17	20°52	T 30
F 31	2 37 39	7 M 45'08	9 ₥ 34	9 m 24	5 ₹ 20	26≈35	23 × 4	18 ≏ 23	178 3	5 ₩ 58	239546	12834	12843	11 m 24	20849	F 31

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W 1	3 s 9	-	5n 9	5n18		22 s57		20 s23	4s 1		1		-	16n55		10s 0		23n16		15n49			15n34	
T 2	3 32		5 9	4 53		23 13		20 14		22 46		-		16 55		10 0		23 16		15 48			15 33	2 53
F 3	3 55		4 56	4 25		23 29	4 55			22 47			-	16 54		10 1	0 54		-	15 46			15 32	
S 4	4 19	10 48	4 29	3 54	1 52	23 45	4 59	19 55	3 49	22 48	0 11	3 53	2 15	16 54	0 21	10 1	0 54	23 16	1 54	15 44	16 7	12 47	15 31	2 53
S 5	4 42		3 51	3 20	1 55		5 4	-,		22 48				16 53		-		23 16	-	15 42		_	15 30	-
M 6	5 5		3 3	2 45	1 57		5 8			22 49			-	16 53		10 2			-	15 41			15 30	
T 7	5 28		2 5	2 8		24 29		19 26		22 50			-	16 52		10 2				15 40			15 29	2 54
W 8 T 9	5 51 6 14		1 2 0s 6	1 29 0 48	1 58	24 42 24 55	5 17	19 16 19 6		22 51 22 52	0 11		2 15 2 15			10 3 10 3	0 54 0 54		-	15 39		12 36	15 28	2 54 2 54
F 10	-		1 14	0 48	1 56			18 56		22 53				16 51			0 54			15 39			15 26	-
S 11	7 0		2 20	0 s35		25 19		18 45		22 54				16 50		10 4		23 16	-				15 26	
	, ,																							
S 12 M13	7 23 7 45		3 20 4 10	1 18 2 2	1 51		5 31 5 34			22 55 22 56			2 16	16 49 16 49		10 4 10 5	0 54	23 16 23 16				12 24 12 21		2 55 2 55
T 14	8 8		4 48	2 45	1 44		5 38	-		22 56			2 16			10 5	0 54						15 23	
W15	8 30		5 10	3 29	1 40		5 40			22 57	0 10					10 6	0 54					12 16		2 56
T 16			5 14	4 13	1 36		5 43	-		22 58			2 16			10 6	0 54					12 13	-	2 56
F 17	9 14	15 33	4 58	4 57	1 31	26 16	5 45	17 39	3 0	22 59	0 10	4 29	2 16	16 46	0 21	10 6	0 54	23 17	1 55	15 39	15 54	12 10	15 20	2 56
S 18	9 36	9 24	4 22	5 41	1 26	26 24	5 47	17 28	2 57	23 (0 9	4 32	2 16	16 46	0 21	10 7	0 54	23 17	1 55	15 39	15 53	12 7	15 19	2 56
S 19	9 58	2 41	3 28	6 25	1 20	26 30	5 49	17 16	2 53	23 1	0 9	4 35	2 16	16 45	0 21	10 7	0 54	23 17	1 55	15 38	15 52	12 4	15 18	2 57
M20	10 20	4n11	2 21	7 9	1 14	26 36	5 50	17 4	2 50	23 2	0 9	4 38	2 16	16 45	0 21	10 7	0 54	23 17	1 56	15 38	15 52	12 1	15 17	2 57
T 21	10 42	10 46	1 4	7 52	1 9	26 42	5 52	16 52	2 46		0 9	4 40	2 16	16 44	0 21	10 8	0 54	23 17	1 56	15 37	15 51	11 58	15 17	2 57
W22	11 3		0n15	8 35	1 3			16 40	2 43				2 16			10 8	0 54						15 16	
T 23		-	1 32	9 17		26 50		16 28	2 40	_	0 9		-	16 43		10 8	0 54					_	15 15	
F 24	11 45		2 41	9 59		26 53		16 16	2 36				-	16 42		10 9		23 17					15 14	
S 25	12 6	27 4	3 39	10 40	0 44	26 55	5 53	16 4	2 33	23 6	0 9	4 51	2 16	16 41	0 21	10 9	0 54	23 18	1 56	15 38	15 47	11 46	15 13	2 58
S 26				11 21		26 56		15 51	2 30				2 16	16 41		10 9		23 18					15 12	
M27				12 1		26 57		15 38	2 27				-	16 40		10 9							15 11	
T 28				12 41		26 56		15 26	2 23					16 39		10 10						11 37		2 58
	13 28			13 20		26 55	5 47	-	2 20					16 39		10 10						11 34		2 58
T 30 F 31	13 48 14 s 7			13 58 14s35		26 53 26 s49	5 45	15 0 14 s47	2 17	23 9 23 s10				16 38 16n37		10 10 10s10		23 18 23n18				11 32	15 8 15n 7	2 58 2 s 5 9
Г 31	148 /	12021	4043	14833	Un 4	20849	3 S4 I	1454/	ZS14	23810	Un 8	5 s 7	Zn16	1003/	0821	10810	U S54	23118	Ino/	13038	131141	11n29	13H /	2 S59

Julian Day Number = 2337497.5, Delta T = 19.51 sec Ecliptic obliquity = $23^{\circ}28'55$, Nutation = - $0^{\circ}00'12$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}22'54$, Lahiri = $19^{\circ}29'54$ Greg. Calendar

NOVEMBER 1687 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂ [™]	4	ħ)∤(¥	Р	R	v	Ç	Ŗ	Day
S 1	2 41 36	8ML45'20	21 Mp 26	11 M 0	5°R17	27≈ 5	23 × 16	18 ≏ 30	17°R 1	5°R58	23°R46	12°R33	12840	11 m 30	20°R46	S 1
S 2	2 45 32	9°45'34	3 ₾ 23	12°36	5 √ 11	27°35	23°27	18°37	16 8 58	5) 57	239945	12832	12°37	11°37	20842	S 2
M 3	2 49 29	10°45'50	15°28	14°12	5° 3	28° 6	23°39	18°44	16°56	5°57	23°45	12°32	12°33	11°44	20°39	M 3
T 4	2 53 25	11°46'07	27°43	15°47	4°53	28°37	23°51	18°51	16°53	5°56	23°45	12°32	12°30	11°51	20°36	T 4
W 5	2 57 22	12°46'27	10 M .11	17°22	4°40	29° 8	24° 3	18°58	16°51	5°56	23°45	12°32	12°27	11°57	20°33	W 5
T 6	3 1 18	13°46'48	22°51	18°57	4°25	29°40	24°15	19° 5	16°48	5°55	23°44	12°32	12°24	12° 4	20°30	T 6
F 7	3 5 15	14°47'11	5 ₹ 45	20°31	4° 7	0) 12	24°27	19°12	16°46	5°55	23°44	12°32	12°21	12°11	20°26	F 7
S 8	3 9 11	15°47'36	18°53	22° 5	3°47	0°44	24°39	19°19	16°43	5°55	23°44	12°32	12°18	12°17	20°23	S 8
S 9	3 13 8	16°48'02	2 ට 14	23°38	3°25	1°16	24°51	19°26	16°41	5°54	23°43	12°31	12°14	12°24	20°20	S 9
M10	3 17 5	17°48'30	15°47	25°12	3° 1	1°48	25° 3	19°32	16°38	5°54	23°43	12°31	12°11	12°31	20°16	M10
T 11	3 21 1	18°48'59	29°33	26°45	2°35	2°21	25°16	19°39	16°36	5°54	23°42	12°30	12° 8	12°38	20°13	T 11
W12	3 24 58	19°49'29	13 ≈ 30	28°18	2° 7	2°54	25°28	19°46	16°33	5°54	23°42	12°D30	12° 5	12°44	20°10	W12
T 13	3 28 54	20°50'00	27°37	29°50	1°37	3°27	25°41	19°52	16°31	5°54	23°42	12°30	12° 2	12°51	20° 7	T 13
F 14	3 32 51	21°50'33	11 米 53	1 ₹ 23	1° 5	4° 1	25°53	19°59	16°28	5°53	23°41	12°30	11°59	12°58	20° 3	F 14
S 15	3 36 47	22°51'07	26°14	2°55	0°32	4°34	26° 6	20° 6	16°26	5°53	23°41	12°31	11°55	13° 4	20° 0	S 15
S 16	3 40 44	23°51'42	10 Y 38	4°27	29M58	5° 8	26°18	20°12	16°23	5°53	23°40	12°32	11°52	13°11	19°57	S 16
M17	3 44 40	24°52'18	25° 0	5°58	29°23	5°42	26°31	20°19	16°21	5°D53	23°39	12°33	11°49	13°18	19°53	M17
T 18	3 48 37	25°52'56	9 8 16	7°30	28°47	6°16	26°44	20°25	16°19	5°53	23°39	12°R33	11°46	13°24	19°50	T 18
W19	3 52 34	26°53'35	23°22	9° 1	28°11	6°50	26°57	20°32	16°16	5°53	23°38	12°33	11°43	13°31	19°47	W19
T 20	3 56 30	27°54'16	7 Ⅱ 13	10°32	27°34	7°25	27° 9	20°38	16°14	5°53	23°38	12°32	11°39	13°38	19°44	T 20
F 21	4 0 27	28°54'57	20°45	12° 3	26°58	7°59	27°22	20°44	16°11	5°54	23°37	12°30	11°36	13°45	19°40	F 21
S 22	4 4 23	29°55'41	3958	13°33	26°22	8°34	27°35	20°50	16° 9	5°54	23°36	12°28	11°33	13°51	19°37	S 22
S 23	4 8 20	0 ₮ 56'26	16°50	15° 3	25°46	9° 9	27°48	20°57	16° 6	5°54	23°36	12°25	11°30	13°58	19°34	S 23
M24	4 12 16	1°57'12	29°23	16°33	25°11	9°44	28° 1	21° 3	16° 4	5°54	23°35	12°22	11°27	14° 5	19°31	M24
T 25	4 16 13	2°58'00	11 Ω 39	18° 2	24°37	10°19	28°14	21° 9	16° 2	5°54	23°34	12°20	11°24	14°11	19°28	T 25
W26	4 20 10	3°58'49	23°43	19°32	24° 5	10°55	28°28	21°15	15°59	5°55	23°33	12°18	11°20	14°18	19°24	W26
T 27	4 24 6	4°59'40	5 m /38	21° 0	23°34	11°30	28°41	21°21	15°57	5°55	23°33	12°D18	11°17	14°25	19°21	T 27
F 28	4 28 3	6° 0'32	17°29	22°28	23° 4	12° 6	28°54	21°27	15°55	5°55	23°32	12°18	11°14	14°31	19°18	F 28
S 29	4 31 59	7° 1'25	29°21	23°56	22°37	12°42	29° 7	21°33	15°52	5°56	23°31	12°20	11°11	14°38	19°15	S 29
S 30	4 35 56	8 ∡ 2'20	11 ≏ 19	25 × 122	22 M 11	13 ¥ 17	29 × 21	21 ≏ 39	15 8 50	5 ¥ 56	23930	12822	118 8	14 m /45	19812	S 30

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S 1	14 s27	7n11 4	n 7 15s12	0s 3	26 s45	5 s 3 8	14 s34	2 s 1 1	23 s11	0n 8	5s10	2n17	16n37	0 s 2 1	10s10	0 s54	23n18	1n57	15n38	15n40	11n26	15n 6	2 s59
S 2	14 46	1 43 3	21 15 48	0 10	26 40	5 34	14 20	2 8	23 12	0 8	5 12	2 17	16 36	0 21	10 11	0 54	23 19	1 57	15 38	15 39	11 23	15 5	2 59
M 3	15 5		25 16 23			-	14 7	2 5	-	0 8	5 15		16 35		10 11	0 54	23 19		15 38				2 59
T 4	15 24		21 16 58		26 27	5 23			23 13	0 7	5 17		16 34	-	10 11		23 19		15 38			-	2 59
W 5		-	13 17 31			5 17			23 14	0 7	5 20		16 34		10 11		23 19		15 38			-	
T 6			s57 18 4				13 26		23 14	0 7	5 22		16 33		10 11	0 54			15 38				2 59
F 7	16 18				25 58	-	13 12		23 15	0 7	5 25		16 32	-	10 11				15 38			15 0	3 0
S 8	16 36	26 8 3	8 19 6	0 49	25 46	4 55	12 58	1 51	23 15	0 7	5 27	2 1/	16 32	0 21	10 11	0 54	23 20	1 58	15 37	15 33	11 5	14 59	3 0
S 9	16 53		2 19 36	0 55	25 34	4 47			23 16	0 7	5 30	2 17	16 31	0 21	10 11	0 54	23 20		15 37				3 0
M10		-	43 20 5			4 37			23 17	0 7	5 32		16 30	-	10 12		23 20		15 37				3 0
T 11	17 27						12 16		23 17	0 7	5 35		16 29	-	10 12		23 20		15 37				3 0
W12	17 44		17 21 (_	24 48		12 1	1 41		0 7	5 37		16 29	-	10 12		23 20		15 37				3 0
T 13		17 6 5			_		11 47		23 18	0 6	5 39		16 28	-	10 12		23 21		15 37				3 0
F 14 S 15	18 16 18 31		36 21 51 49 22 15		24 13 23 54	3 53 3 41	_		23 19 23 19	0 6	5 42 5 44		16 27 16 27	0 21 0 21	10 12 10 12		23 21 23 21		15 37 15 37				3 0
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S 16	18 46		48 22 38		23 34	3 28			23 20	0 6			16 26	-	10 12		23 21		15 38				3 1
M17	19 1		36 22 59		23 13	3 14			23 20	0 6	5 49		16 25	-	10 12		23 21		15 38	-		-	3 1
T 18	-, -,		18 23 20	-	-	-	10 33		23 21	0 6	5 51		16 25	-	10 12		23 22		15 38				3 1
W19	-, -,		n59 23 39		22 29	-	10 18		23 21	0 6	5 53		16 24	-	10 12		23 22		15 38	-		-	3 1
T 20 F 21	19 44 19 57		12 23 57 16 24 14		22 6 21 43	2 31 2 16	10 3 9 48		23 21 23 22	0 6	5 56 5 58	2 19 2 19		-	10 12 10 12		23 22 23 22		15 38 15 37	-		-	3 1
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S 23	20 23		44 24 43			1 45	9 18		23 22	0 5	6 2		16 21	0 21	10 11		23 23		15 35			-	3 1
M24	20 35					1 30	9 2		23 23	0 5	6 4	2 19			10 11		23 23		15 35				
T 25	20 47		15 25 8			1 14	8 47		23 23	0 5	6 7		16 20		10 11		23 23		15 34				3 1
	20 59 21 10		9 25 18		19 46 19 23	0 58 0 43	8 32 8 16		23 23 23 24	0 5 0 5	6 9 6 11		16 19 16 18		10 11 10 11		23 23 23 24		15 33 15 33			14 42 14 41	3 1
	21 10		18 25 34			0 43	8 1		23 24	0 5	6 13		16 18		10 11		23 24	-	15 33			14 41	3 1
	21 21		35 25 41		18 39	0 12	7 45			0 5	6 15		16 17		10 11		23 24	-	15 34	-		14 40	3 1
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S 30	21 s41	2 s 0 2ı	25 s45	2 s 2 l	18s18	0n 2	7 s29	US59	23 s24	0n 5	6s17	2n20	16n17	0s21	10s10	0 s53	23n24	2n 0	15n34	15n12	9n58	14n39	3 s l

Julian Day Number = 2337528.5, Delta T = 19.47 sec Ecliptic obliquity = $23^{\circ}28'55$, Nutation = - $0^{\circ}00'13$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}22'58$, Lahiri = $19^{\circ}29'58$ Greg. Calendar

DECEMBER 1687 GC 00:00 UT

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M 1	4 39 52	9 ∡ 3'16	23 ≏ 28	26 ₮ 48	21°R47	13 ¥ 53	29 х 34	21 ≏ 44	15°R48	5) (57	23°R29	12823	118 5	14 m 52	19°R 9	M 1
T 2	4 43 49	10° 4'13	5 M .50	28°13	21 M 26	14°30	29°47	21°50	15 8 46	5°57	239528	12°24	11° 1	14°58	198 6	T 2
W 3	4 47 45	11° 5'12	18°30	29°37	21° 7	15° 6	0ਰ 1	21°56	15°43	5°58	23°27	12°R24	10°58	15° 5	19° 3	W 3
T 4	4 51 42	12° 6'12	1 ₹ 28	1る 0	20°50	15°42	0°14	22° 1	15°41	5°58	23°27	12°23	10°55	15°12	19° 0	T 4
F 5	4 55 39	13° 7'12	14°45	2°21	20°36	16°19	0°28	22° 7	15°39	5°59	23°26	12°20	10°52	15°18	18°57	F 5
S 6	4 59 35	14° 8'14	28°19	3°40	20°24	16°55	0°41	22°12	15°37	6° 0	23°25	12°16	10°49	15°25	18°54	S 6
S 7	5 3 32	15° 9'16	12중 8	4°57	20°15	17°32	0°55	22°18	15°35	6° 0	23°24	12°10	10°45	15°32	18°51	S 7
M 8	5 7 28	16°10'19	26° 8	6°11	20° 8	18° 9	1° 9	22°23	15°33	6° 1	23°23	12° 5	10°42	15°38	18°48	M 8
T 9	5 11 25	17°11'23	10≈16	7°23	20° 3	18°46	1°22	22°28	15°31	6° 2	23°22	12° 0	10°39	15°45	18°46	T 9
W10	5 15 21	18°12'27	24°27	8°31	20°D 1	19°23	1°36	22°33	15°29	6° 2	23°21	11°56	10°36	15°52	18°43	W10
T 11	5 19 18	19°13'32	8 39	9°36	20° 2	20° 0	1°50	22°38	15°27	6° 3	23°20	11°54	10°33	15°59	18°40	T 11
F 12	5 23 14	20°14'36	22°49	10°36	20° 5	20°38	2° 3	22°43	15°25	6° 4	23°19	11°D53	10°30	16° 5	18°37	F 12
S 13	5 27 11	21°15'41	6 ℃ 54	11°31	20°10	21°15	2°17	22°48	15°23	6° 5	23°17	11°54	10°26	16°12	18°35	S 13
S 14	5 31 8	22°16'47	20°55	12°20	20°18	21°52	2°31	22°53	15°21	6° 6	23°16	11°56	10°23	16°19	18°32	S 14
M15	5 35 4	23°17'53	4 8 50	13° 3	20°27	22°30	2°45	22°58	15°19	6° 7	23°15	11°R57	10°20	16°25	18°30	M15
T 16	5 39 1	24°18'59	18°37	13°38	20°39	23° 7	2°58	23° 3	15°18	6° 8	23°14	11°57	10°17	16°32	18°27	T 16
W17	5 42 57	25°20'05	2 I I15	14° 4	20°54	23°45	3°12	23° 7	15°16	6° 9	23°13	11°55	10°14	16°39	18°25	W17
T 18	5 46 54	26°21'12	15°43	14°22	21°10	24°23	3°26	23°12	15°14	6°10	23°12	11°51	10°11	16°45	18°22	T 18
F 19	5 50 50	27°22'19	28°58	14°R29	21°28	25° 1	3°40	23°17	15°12	6°11	23°11	11°45	10° 7	16°52	18°20	F 19
S 20	5 54 47	28°23'27	119558	14°25	21°49	25°38	3°54	23°21	15°11	6°12	23°10	11°36	10° 4	16°59	18°18	S 20
S 21	5 58 43	29°24'35	24°43	14°10	22°11	26°16	4° 7	23°25	15° 9	6°13	23° 8	11°27	10° 1	17° 6	18°15	S 21
M22	6 2 40	0 ප් 25'43	7Ω 12	13°43	22°35	26°54	4°21	23°30	15° 8	6°14	23° 7	11°18	9°58	17°12	18°13	M22
T 23	6 6 3 7	1°26'52	19°27	13° 4	23° 1	27°32	4°35	23°34	15° 6	6°15	23° 6	11°10	9°55	17°19	18°11	T 23
W24	6 10 33	2°28'01	1 m 30	12°14	23°29	28°10	4°49	23°38	15° 5	6°17	23° 5	11° 3	9°51	17°26	18° 9	W24
T 25	6 14 30	3°29'11	13°25	11°13	23°58	28°49	5° 3	23°42	15° 3	6°18	23° 4	10°58	9°48	17°32	18° 7	T 25
F 26	6 18 26	4°30'21	25°15	10° 4	24°29	29°27	5°17	23°46	15° 2	6°19	23° 2	10°56	9°45	17°39	18° 5	F 26
S 27	6 22 23	5°31'31	7 ♀ 6	8°49	25° 2	0 Υ 5	5°31	23°49	15° 0	6°20	23° 1	10°D55	9°42	17°46	18° 3	S 27
S 28	6 26 19	6°32'42	19° 2	7°29	25°36	0°43	5°45	23°53	14°59	6°22	23° 0	10°56	9°39	17°52	18° 1	S 28
M29	6 30 16	7°33'53	1 M .10	6° 7	26°11	1°22	5°58	23°57	14°58	6°23	22°59	10°57	9°36	17°59	17°59	M29
T 30	6 34 12	8°35'05	13°34	4°47	26°48	2° 0	6°12	24° 0	14°57	6°24	22°57	10°R57	9°32	18° 6	17°57	T 30
W31	6 38 9	9 ප 36'16	26M18	3 る 30	27 M 26	2 Υ 39	6 ප 26	24 ♀ 4	14855	6 ∺ 26	22956	10856	9829	18 m 12	17 8 55	W31

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M 1 T 2	21 s51 22 0		142 25 s48 36 25 50			On17 7s		23 s24 23 24	0n 5		2n20 2 21	16n16 16 15		10s10 10 10		23n25 23 25			15n11 15 10		14n38 14 37	3 s 1
W 3	22 9	17 54 0s	33 25 50	2 21	17 21 (0 45 6	2 0 53	23 25	0 4	6 23	2 21	16 15	0 21	10 10	0 53	23 25	2 0	15 35	15 9	9 49	14 36	3 1
T 4 F 5	22 17 22 25		42 25 49 48 25 46			0 59 6 1 1 12 6		23 25 23 25	0 4		2 21 2 21	-	-	10 10 10 9	0 53 0 53		2 1 2 1		15 8 15 7		14 35 14 35	3 1 3 1
S 6	22 32	27 13 3	45 25 42	2 16	16 32	1 24 5		23 25	0 4	6 28	2 21	16 13	0 21	10 9		23 26	2 1	15 33	15 6	9 40	14 34	3 2
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W10	22 57	18 9 5	4 25 10	1 58	15 42 2	2 10 4	9 0 40	23 25	0 4	6 35	2 22	16 11	0 21	10 8	0 53	23 27	2 1	15 27	15 2	9 27	14 31	3 2
T 11 F 12 S 13	23 3 23 7 23 12	6 27 3	38 24 59 55 24 47 59 24 34	1 44	15 23 2	2 20 4 3 2 30 4 2 39 4	7 0 36	23 25 23 24 23 24	0 4 0 3 0 3		2 22 2 23 2 23	16 9	0 21	10 8 10 7 10 7	0 53 0 53 0 53	23 28	2 1 2 1 2 1	15 26 15 26 15 26	-	9 24 9 21 9 18	14 30 14 29 14 29	3 2 3 2 3 1
W17 T 18	23 26	12 33 0 17 58 0n 22 24 1 25 34 2	52 24 19 39 24 4 36 23 49 48 23 32 52 23 16	1 14 1 2 0 48 0 34	15 4 2 15 0 3 14 56 3 14 54 3	2 48 3 4 2 56 3 2 3 4 3 3 11 2 2 3 18 2 2	28 0 31 1 0 29 65 0 28 68 0 26	23 24 23 24 23 23	0 3 0 3 0 3 0 3 0 3	6 44 6 45 6 47 6 48	2 23 2 23 2 23 2 24 2 24	16 8 16 7 16 7 16 6	0 21 0 21 0 21 0 21	10 7 10 6 10 6 10 5 10 5	0 53 0 53 0 53 0 53	23 28 23 29 23 29 23 29	2 2 2 2 2 2 2 2	15 27 15 27 15 26 15 25	14 56 14 55 14 54	9 12 9 9 9 6 9 3	14 26 14 25	3 1 3 1 3 1 3 1 3 1
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Julian Day Number = 2337558.5, Delta T = 19.43 sec Ecliptic obliquity = $23^{\circ}28'54$, Nutation = - $0^{\circ}00'12$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}23'02$, Lahiri = $19^{\circ}30'03$ Greg. Calendar