

Astrodienst Ephemeris Tables for the year 1681

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 1681 GC 00:00 UT

Day	Sid.t	0	D	ğ	Ω	ď	4	ħ)ұ(并	В	R	Ω	Ç	ķ	Day
W 1	6 44 51	11 る 20'23	23829	16°R55	9≈56	21 m/26	7°R52	19°R44	16 Υ 9	21≈22	13°R44	24°R 7	24 m/ 47	3 × ⁷ 23	16 Y 42	W 1
T 2	6 48 47	12°21'33	8 II 22	15 ප 41	11°10	21°41	7 Ⅱ 46	199540	16° 9	21°24	139543	23 m/59	24°44	3°29	16°42	T 2
F 3	6 52 44	13°22'41	23°24	14°22	12°24	21°55	7°41	19°35	16°10	21°26	13°41	23°49	24°41	3°36	16°42	F 3
S 4	6 56 40	14°23'50	8927	13° 2	13°39	22° 8	7°36	19°30	16°10	21°27	13°40	23°38	24°38	3°43	16°43	S 4
S 5	7 0 37	15°24'58	23°20	11°43	14°53	22°21	7°31	19°25	16°11	21°29	13°39	23°27	24°35	3°50	16°43	S 5
M 6	7 4 34	16°26'05	7Ω 55	10°26	16° 7	22°33	7°26	19°20	16°11	21°31	13°37	23°18	24°31	3°56	16°44	M 6
T 7	7 8 30	17°27'13	22° 5	9°15	17°21	22°45	7°21	19°15	16°12	21°33	13°36	23°12	24°28	4° 3	16°45	T 7
W 8	7 12 27	18°28'20	5 m 46	8°12	18°35	22°57	7°17	19°10	16°13	21°35	13°35	23° 8	24°25	4°10	16°45	W 8
T 9	7 16 23	19°29'27	19° 0	7°16	19°50	23° 7	7°12	19° 5	16°14	21°37	13°34	23°D 7	24°22	4°16	16°46	T 9
F 10	7 20 20	20°30'34	1 ≏ 47	6°30	21° 4	23°18	7° 8	19° 0	16°14	21°39	13°32	23° 7	24°19	4°23	16°47	F 10
S 11	7 24 16	21°31'41	14°13	5°53	22°18	23°27	7° 4	18°55	16°15	21°41	13°31	23° 7	24°16	4°30	16°48	S 11
S 12	7 28 13	22°32'47	26°22	5°26	23°32	23°36	7° 0	18°50	16°16	21°43	13°30	23°R 8	24°12	4°37	16°49	S 12
M13	7 32 9	23°33'53	8 M .19	5° 8	24°46	23°45	6°57	18°45	16°17	21°45	13°29	23° 6	24° 9	4°43	16°50	M13
T 14	7 36 6	24°34'59	20°11	4°59	25°59	23°52	6°54	18°40	16°18	21°47	13°27	23° 3	24° 6	4°50	16°51	T 14
W15	7 40 3	25°36'04	2 √ 1	4°D59	27°13	23°59	6°50	18°35	16°19	21°50	13°26	22°57	24° 3	4°57	16°52	W15
T 16	7 43 59	26°37'09	13°53	5° 7	28°27	24° 6	6°47	18°31	16°20	21°52	13°25	22°48	24° 0	5° 3	16°53	T 16
F 17	7 47 56	27°38'14	2 <u>5</u> °51	5°22	29°41	24°12	6°45	18°26	16°22	21°54	13°24	22°38	23°56	5°10	16°54	F 17
S 18	7 51 52	28°39'17	7 궁 58	5°44	0 ∺ 55	24°17	6°42	18°21	16°23	21°56	13°22	22°27	23°53	5°17	16°55	S 18
S 19	7 55 49	29°40'21	20°14	6°12	2° 8	24°21	6°40	18°16	16°24	21°58	13°21	22°17	23°50	5°24	16°57	S 19
M20	7 59 45	0≈41'23	2≈41	6°45	3°22	24°25	6°37	18°11	16°25	22° 0	13°20	22° 7	23°47	5°30	16°58	M20
T 21	8 3 42	1°42'25	15°18	7°24	4°36	24°28	6°35	18° 6	16°27	22° 2	13°19	21°59	23°44	5°37	16°59	T 21
W22	8 7 38	2°43'25	28° 7	8° 8	5°49	24°30	6°34	18° 2	16°28	22° 4	13°18	21°54	23°41	5°44	17° 1	W22
T 23	8 11 35	3°44'24	11 米 6	8°55	7° 3	24°32	6°32	17°57	16°30	22° 7	13°16	21°51	23°37	5°50	17° 2	T 23
F 24	8 15 32	4°45'23	24°17	9°47	8°16	24°33	6°31	17°52	16°31	22° 9	13°15	21°D51	23°34	5°57	17° 4	F 24
S 25	8 19 28	5°46'20	7 Ƴ 41	10°42	9°30	24°R33	6°30	17°48	16°33	22°11	13°14	21°52	23°31	6° 4	17° 6	S 25
S 26	8 23 25	6°47'16	21°17	11°40	10°43	24°32	6°29	17°43	16°34	22°13	13°13	21°53	23°28	6°11	17° 7	S 26
M27	8 27 21	7°48'10	5 8 8	12°40	11°56	24°31	6°28	17°39	16°36	22°15	13°12	21°R54	23°25	6°17	17° 9	M27
T 28	8 31 18	8°49'03	19°12	13°44	13° 9	24°29	6°27	17°34	16°38	22°18	13°11	21°53	23°21	6°24	17°11	T 28
W29	8 35 14	9°49'55	3 Ⅱ 30	14°50	14°22	24°26	6°27	17°30	16°40	22°20	13° 9	21°51	23°18	6°31	17°13	W29
T 30	8 39 11	10°50'45	17°58	15°58	15°36	24°22	6°D27	17°26	16°41	22°22	13° 8	21°47	23°15	6°37	17°15	T 30
F 31	8 43 7	11≈51'34	2933	17중 8	16 米 49	24 Mp 17	6 Ⅱ 27	179521	16 Ƴ 43	22≈24	1395 7	21 Mp 41	23 Mp 12	6 ₹ 44	17 Y 17	F 31

Day	0	D	ğ	·	ð	4	ħ)f(并	Р	ß	v t	Š
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl decl	decl lat
W 1 T 2	23 s 0 22 54			13 19s27 1s44 29 19 7 1 44			21n55 Os 6 21 56 O 6				2n21 2 24	2n 4 16s10 2 6 16 10	7n21 0n51 7 21 0 51
F 3 S 4	-	18 17 5 2 18 21 4 52	19 59 2 4 19 54 2 5				21 57 0 6 21 58 0 6				2 28 2 32	2 7 16 11 2 8 16 12	7 21 0 50 7 21 0 50
S 5 M 6	22 28	14 50 3 36	19 51 3 19 50 3 1		5 47 3 4	20 59 0 36	21 59 0 6 21 59 0 6	5 48 0 37	14 46 0 26	22 3 0 44	2 36 2 40	2 9 16 13 2 11 16 14	7 21 0 50 7 21 0 50
	22 20 22 12 22 4		19 51 3 2	23 16 54 1 42	5 41 3 8	20 59 0 36 20 58 0 36 20 58 0 36	22 1 0 5	5 49 0 37	14 45 0 26	22 3 0 44	2 42 2 44 2 44	2 12 16 15 2 13 16 16 2 15 16 17	7 22 0 50 7 22 0 50 7 22 0 50
F 10	21 55 21 45		19 57 3 2	22 16 5 1 41	5 35 3 11	20 57 0 35 20 57 0 35	22 3 0 5	5 50 0 37	14 43 0 26	22 4 0 44	2 44 2 44	2 16 16 18 2 17 16 19	7 22 0 50 7 22 0 49
M13	-	10 52 3 37	20 15 3	14 15 15 1 39 8 14 50 1 38	5 29 3 16	20 56 0 35 20 56 0 35	22 5 0 5	5 51 0 37		22 4 0 43	2 44 2 45	2 18 16 20 2 20 16 20	7 23 0 49 7 23 0 49
W15	21 14 21 3 20 52	13 42 4 17 15 56 4 45 17 31 5 1				20 56 0 35 20 55 0 34 20 55 0 34	22 7 0 5	5 52 0 37	14 40 0 26	22 5 0 43	2 46 2 48 2 52	2 21 16 21 2 22 16 22 2 23 16 23	7 23 0 49 7 23 0 49 7 24 0 49
	20 40 20 28		20 48 2 3		5 24 3 22	20 55 0 34 20 55 0 34	22 8 0 4		14 39 0 26 14 38 0 26		2 56 3 0	2 25 16 24 2 26 16 25	7 24 0 49 7 24 0 49
M20	-	15 49 3 53	21 15 2	14 12 9 1 31 4 11 41 1 29	5 24 3 27	20 54 0 33	22 10 0 4 22 10 0 4	5 54 0 37		22 6 0 43	3 4 3 8	2 27 16 26 2 28 16 27	7 25 0 48 7 25 0 48
T 21 W22 T 23		10 12 2 4	21 23 1 5 21 31 1 4 21 39 1 3	43 10 44 1 26	5 25 3 31	20 54 0 33	22 11 0 4 22 12 0 4 22 13 0 4	5 55 0 37	14 35 0 26	22 6 0 43	3 11 3 13 3 14	2 30 16 28 2 31 16 28 2 32 16 29	7 26 0 48 7 26 0 48 7 27 0 48
F 24 S 25	19 6 18 52	2 28 0s13	21 45 1 2 21 52 1 1	22 9 46 1 23	5 27 3 34	20 54 0 32	22 13 0 4 22 14 0 3	5 57 0 37		22 6 0 43	3 14 3 14	2 33 16 30 2 35 16 31	7 27 0 48 7 28 0 48
S 26 M27	18 36 18 21	9 55 3 32	22 1 0 5		5 32 3 39	20 54 0 32	22 15 0 3 22 15 0 3	5 59 0 36	14 32 0 26 14 32 0 26	22 7 0 43	3 13 3 13	2 36 16 32 2 37 16 33	7 28 0 48 7 29 0 48
	17 49	16 4 4 54		32 7 17 1 13	5 37 3 42	20 54 0 31	22 16 0 3 22 17 0 3 22 18 0 3	6 0 0 36	14 30 0 26	22 7 0 42	3 13 3 14 3 16	2 38 16 34 2 40 16 34 2 41 16 35	7 29 0 47 7 30 0 47 7 31 0 47
	17 s16		22 s 10 On 1				22n18 0s 3			22n 8 0 42	3n18	2n42 16s36	7n31 0n47

Julian Day Number = 2335033.5, Delta T = 23.09 sec Ecliptic obliquity = $23^{\circ}28'41$, Nutation = - $0^{\circ}00'01$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}17'15$, Lahiri = $19^{\circ}24'15$ Greg. Calendar

FEBRUARY 1681 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ)ф(卉	Р	n	Ω	Ç	ę,	Day
S 1	8 47 4	12≈52'21	1795 9	18 ට 20	18) 1	24°R12	6 Ⅱ 27	17°R17	16 Y 45	22≈27	13°R 6	21°R35	23 Mp 9	6 ₹ 151	17 Y 19	S 1
S 2	8 51 1	13°53'07	1 Q 38	19°34	19°14	24M) 6	6°28	179513	16°47	22°29	1395 5	21 m) 29	23° 6	6°58	17°21	S 2
M 3	8 54 57	14°53'52	15°55	20°49	20°27	23°59	6°28	17° 9	16°49	22°31	13° 4	21°24	23° 2	7° 4	17°23	M 3
T 4	8 58 54	15°54'35	29°53	22° 6	21°40	23°52	6°29	17° 5	16°51	22°33	13° 3	21°20	22°59	7°11	17°25	T 4
W 5	9 2 50	16°55'17	13 m 29	23°25	22°53	23°43	6°30	17° 1	16°53	22°36	13° 2	21°19	22°56	7°18	17°27	W 5
T 6	9 6 47	17°55'58	26°42	24°44	24° 5	23°34	6°32	16°57	16°55	22°38	13° 1	21°D18	22°53	7°25	17°29	T 6
F 7	9 10 43	18°56'38	9 ॒ 32	26° 5	25°18	23°24	6°33	16°53	16°57	22°40	13° 0	21°20	22°50	7°31	17°32	F 7
S 8	9 14 40	19°57'16	22° 2	27°28	26°30	23°14	6°35	16°49	16°59	22°43	12°59	21°21	22°47	7°38	17°34	S 8
S 9	9 18 36	20°57'53	4 M .15	28°51	27°42	23° 2	6°37	16°46	17° 2	22°45	12°58	21°23	22°43	7°45	17°36	S 9
M10	9 22 33	21°58'29	16°16	0≈16	28°55	22°50	6°39	16°42	17° 4	22°47	12°57	21°24	22°40	7°51	17°39	M10
T 11	9 26 29	22°59'04	28°10	1°41	oΥ 7	22°37	6°41	16°39	17° 6	22°49	12°56	21°R24	22°37	7°58	17°41	T 11
W12	9 30 26	23°59'37	10 × 2	3° 8	1°19	22°23	6°43	16°35	17° 9	22°52	12°55	21°23	22°34	8° 5	17°44	W12
T 13	9 34 23	25° 0'10	21°56	4°36	2°31	22° 9	6°46	16°32	17°11	22°54	12°54	21°20	22°31	8°12	17°46	T 13
F 14	9 38 19	26° 0'41	3 云 57	6° 5	3°43	21°53	6°49	16°29	17°13	22°56	12°53	21°17	22°27	8°18	17°49	F 14
S 15	9 42 16	27° 1'10	16° 8	7°35	4°55	21°37	6°52	16°26	17°16	22°58	12°52	21°13	22°24	8°25	17°51	S 15
S 16	9 46 12	28° 1'38	28°32	9° 6	6° 6	21°21	6°55	16°22	17°18	23° 1	12°52	21° 9	22°21	8°32	17°54	S 16
M17	9 50 9	29° 2'05	11≈11	10°38	7°18	21° 3	6°59	16°19	17°21	23° 3	12°51	21° 5	22°18	8°38	17°57	M17
T 18	9 54 5	0 米 2'30	24° 5	12°11	8°30	20°46	7° 2	16°17	17°23	23° 5	12°50	21° 2	22°15	8°45	17°59	T 18
W19	9 58 2	1° 2'53	7) (14	13°44	9°41	20°27	7° 6	16°14	17°26	23° 8	12°49	21° 1	22°12	8°52	18° 2	W19
T 20	10 1 58	2° 3'15	20°38	15°19	10°52	20° 8	7°10	16°11	17°29	23°10	12°48	21°D 0	22° 8	8°59	18° 5	T 20
F 21	10 5 55	3° 3'34	4 Υ 15	16°55	12° 4	19°48	7°14	16° 8	17°31	23°12	12°48	21° 1	22° 5	9° 5	18° 8	F 21
S 22	10 9 52	4° 3'52	18° 2	18°32	13°15	19°28	7°18	16° 6	17°34	23°14	12°47	21° 2	22° 2	9°12	18°11	S 22
S 23	10 13 48	5° 4'08	1 8 59	20°10	14°26	19° 7	7°23	16° 4	17°37	23°17	12°46	21° 3	21°59	9°19	18°14	S 23
M24	10 17 45	6° 4'22	16° 2	21°49	15°37	18°46	7°28	16° 1	17°39	23°19	12°45	21° 4	21°56	9°25	18°17	M24
T 25	10 21 41	7° 4'34	0 Ⅱ 11	23°29	16°48	18°24	7°32	15°59	17°42	23°21	12°45	21° 5	21°53	9°32	18°20	T 25
W26	10 25 38	8° 4'43	14°23	25°10	17°58	18° 2	7°37	15°57	17°45	23°23	12°44	21°R 5	21°49	9°39	18°23	W26
T 27	10 29 34	9° 4'51	28°35	26°52	19° 9	17°40	7°43	15°55	17°48	23°25	12°43	21° 4	21°46	9°46	18°26	T 27
F 28	10 33 31	10 米 4′56	129547	28 ≈ 35	20 Υ 19	17 m)17	7 Ⅲ 48	15953	17 Y 51	23≈28	129543	21 mg 3	21 Mp 43	9 ∡ 52	18 Y 29	F 28

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	dec	l lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	16 s59	17n45	4 s40	22 s10	0n 4	5 s45	1s 6	5n46	3n46	20n55	0 s31	22n19	0s 3	6n	2 0s3	6 14 s 28	0 s26	22n 8	0 s42	3n21	2n43	16s37	7n32	0n47
S 2	16 41	15 58	3 57	22 8	0s 5	5 14	1 3	5 50	3 48	20 55	0 30	22 19	0 3	6	3 0 3	5 14 27	0 26	22 8	0 42	3 23	2 45	16 38	7 32	0 47
M 3	16 24	13 13	3 1	22 5	0 14	4 43	1 1	5 54	3 49	20 56	0 30	22 20	0 2	6	4 0 3	5 14 27	0 26	22 8	0 42	3 25	2 46	16 39	7 33	0 47
T 4	16 6	9 45	1 54	22 1	0 22	4 12	0 58	5 58	3 51	20 56	0 30	22 21	0 2	6	5 0 3	5 14 26	0 26	22 8	0 42	3 26	2 47	16 40	7 34	0 47
W 5	15 47	5 51	0 43	21 56	0 30	3 41	0 55	6 3	3 52	20 57	0 30	22 21	0 2	6	5 0 3	5 14 25	0 26	22 9	0 42	3 27	2 49	16 40	7 35	0 46
T 6	15 29	1 46	0n29	21 50	0 38	3 10	0 53	6 8	3 53	20 57	0 30	22 22	0 2	6	6 0 3	5 14 24	0 26	22 9	0 42	3 27	2 50	16 41	7 35	0 46
F 7	15 10	2s17	1 38	21 43	0 45	2 38	0 50	6 13	3 55	20 57	0 29	22 23	0 2	6	7 0 3	5 14 24	0 26	22 9	0 42	3 27	2 51	16 42	7 36	0 46
S 8	14 51	6 7	2 40	21 34	0 53	2 7	0 47	6 18	3 56	20 58	0 29	22 23	0 2	6	8 0 3	5 14 23	0 26	22 9	0 42	3 26	2 52	16 43	7 37	0 46
S 9	14 32	9 36	3 34	21 24	1 0	1 35	0 44	6 24	3 57	20 58	0 29	22 24	0 2	6	9 0 3	14 22	0 26	22 9	0 42	3 25	2 54	16 44	7 38	0 46
M10	14 12	12 38	4 17	21 12	1 6	1 4	0 41	6 30	3 58	20 59	0 29	22 24	0 2	6 1	0 0 3	5 14 21	0 26	22 9	0 42	3 25	2 55	16 45	7 39	0 46
T 11	13 53	15 6	4 48	21 0	1 13	0 32	0 38	6 36	3 59	21 0	0 28	22 25	0 2	6 1	1 0 3	5 14 21	0 26	22 10	0 41	3 25	2 56	16 45	7 39	0 46
W12	13 33	16 55	5 7	20 46	1 19	0 1	0 35	6 42	4 0	21 0	0 28	22 25	0 1	6 1	1 0 3	5 14 20	0 26	22 10	0 41	3 25	2 57	16 46	7 40	0 46
T 13	13 13	18 1	5 14	20 31	1 25	0n31	0 32	6 49	4 1	21 1	0 28	22 26	0 1	6 1	2 0 3	5 14 19	0 26	22 10	0 41	3 26	2 59	16 47	7 41	0 46
F 14	12 52	18 19	5 6	20 14	1 30	1 3	0 28	6 56	4 2	21 2	0 28	22 26	0 1	6 1	3 0 3	5 14 18	0 26	22 10	0 41	3 28	3 0	16 48	7 42	0 45
S 15	12 32	17 47	4 45	19 56	1 35	1 34	0 25	7 3	4 3	21 2	0 28	22 27	0 1	6 1	4 0 3	5 14 18	0 26	22 10	0 41	3 29	3 1	16 49	7 43	0 45
S 16	12 11	16 25	4 10	19 37	1 40	2 6	0 22	7 10	4 4	21 3	0 27	22 27	0 1	6 1	5 0 3	5 14 17	0 26	22 10	0 41	3 31	3 2	16 49	7 44	0 45
M17	11 50	14 13	3 22	19 16	1 44	2 37	0 18	7 18	4 5	21 4	0 27	22 28	0 1	6 1	6 0 3	5 14 16	0 26	22 11	0 41	3 32	3 4	16 50	7 45	0 45
T 18	11 29	11 16	2 23	18 55	1 49	3 9	0 15	7 25	4 5	21 5	0 27	22 28	0 1	6 1	7 0 3	5 14 15	0 26	22 11	0 41	3 33	3 5	16 51	7 46	0 45
W19	11 7	7 42	1 15	18 31	1 52	3 40	0 11	7 33	4 6	21 5	0 27	22 29	0 1	6 1	8 0 3	5 14 15	0 26	22 11	0 41	3 34	3 6	16 52	7 47	0 45
T 20	10 46	3 41	0 2	18 7	1 56	4 11	0 8	7 41	4 6	21 6	0 27	22 29	0 1	6 1	9 0 3	5 14 14	0 26	22 11	0 41	3 34	3 7	16 53	7 48	0 45
F 21	10 24	0n35	1 s 1 3	17 41	1 59	4 43	0 4	7 49	4 7	21 7	0 26	22 30	0 1	6 2	0 0 3	5 14 13	0 26	22 11	0 41	3 34	3 9	16 54	7 49	0 45
S 22	10 2	4 52	2 24	17 13	2 2	5 14	0 1	7 58	4 7	21 8	0 26	22 30	0 0	6 2	1 0 3	5 14 13	0 26	22 11	0 41	3 34	3 10	16 54	7 50	0 45
S 23	9 40	8 56	3 27	16 45	2 4	5 45	0n 3	8 6	4 7	21 9	0 26	22 30	0 0	6 2	2 0 3	5 14 12	0 26	22 11	0 41	3 33	3 11	16 55	7 51	0 44
M24	9 18	12 31	4 19	16 15	2 6	6 16	0 7	8 14	4 7	21 10	0 26	22 31	0 0	6 2	4 0 3	5 14 11	0 26	22 12	0 40	3 33	3 12	16 56	7 52	0 44
T 25	8 56	15 24	4 56	15 43	2 7	6 46	0 11	8 23	4 7	21 11	0 26	22 31	0 0	6 2	5 0 3	5 14 10	0 26	22 12	0 40	3 33	3 14	16 57	7 53	0 44
W26	8 33	17 22	5 14	15 10	2 8	7 17	0 14	8 32	4 7	21 12	0 25	22 31	0n 0	6 2	6 0 3	5 14 10	0 26	22 12	0 40	3 33	3 15	16 57	7 54	0 44
T 27	8 11	18 15	5 14	14 36	2 9	7 47	0 18	8 40	4 7	21 13	0 25	22 32	0 0	6 2	7 0 3	5 14 9	0 26	22 12	0 40	3 33	3 16	16 58	7 55	0 44
F 28	7 s48	17n59	4 s 5 4	14s 0	2s 9	8n18	0n22	8n49	4n 7	21n14		22n32	0n 0	6n2	8 0s3	5 14s 8	0 s26	22n12	0 s40	3n33	3n17	16 s 5 9	7n56	0n44

Julian Day Number = 2335064.5, Delta T = 23.04 sec Ecliptic obliquity = 23°28'41, Nutation = -0°00'01, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}17'19$, Lahiri = $19^{\circ}24'20$ Greg. Calendar

MARCH 1681 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ)∤(并	В	n	v	Ç	& &	Day
S 1	10 37 27	11 米 4'59	26953	0 ∺ 19	21 Y 30	16°R54	7 Ⅱ 54	15°R51	17 Y 54	23≈30	12°R42	21°R 2	21 Mp 40	9 ∡ 759	18 Y 32	S 1
S 2	10 41 24	12° 5'01	10 Ω 52	2° 4	22°40	16 m /31	7°59	15950	17°56	23°32	129542	21 mg 1	21°37	10° 6	18°35	S 2
M 3	10 45 21	13° 5'00	24°40	3°51	23°50	16° 8	8° 5	15°48	17°59	23°34	12°41	21° 0	21°33	10°12	18°38	M 3
T 4	10 49 17	14° 4'56	8 m) 14	5°38	25° 0	15°44	8°11	15°47	18° 2	23°36	12°41	20°59	21°30	10°19	18°42	T 4
W 5	10 53 14	15° 4'51	21°33	7°27	26°10	15°21	8°17	15°45	18° 5	23°39	12°40	20°D59	21°27	10°26	18°45	W 5
T 6	10 57 10	16° 4'44	4 ₾ 34	9°17	27°19	14°57	8°24	15°44	18° 8	23°41	12°40	20°59	21°24	10°33	18°48	T 6
F 7	11 1 7	17° 4'36	17°18	11° 8	28°29	14°33	8°30	15°43	18°11	23°43	12°39	20°59	21°21	10°39	18°51	F 7
S 8	11 5 3	18° 4'25	29°46	13° 0	29°38	14°10	8°37	15°42	18°15	23°45	12°39	21° 0	21°18	10°46	18°55	S 8
S 9	11 9 0	19° 4'13	12 M 0	14°53	0 8 47	13°46	8°44	15°41	18°18	23°47	12°38	21° 0	21°14	10°53	18°58	S 9
M10	11 12 56	20° 3'59	24° 3	16°47	1°56	13°23	8°51	15°40	18°21	23°49	12°38	21° 0	21°11	11° 0	19° 1	M10
T 11	11 16 53	21° 3'43	5 ₹ 59	18°43	3° 5	13° 0	8°58	15°39	18°24	23°51	12°38	21°R 0	21° 8	11° 6	19° 5	T 11
W12	11 20 50	22° 3'25	17°52	20°39	4°14	12°37	9° 5	15°39	18°27	23°53	12°37	21°D 0	21° 5	11°13	19°8	W12
T 13	11 24 46	23° 3'06	29°46	22°37	5°23	12°14	9°13	15°38	18°30	23°55	12°37	21° 0	21° 2	11°20	19°12	T 13
F 14	11 28 43	24° 2'45	11 る 47	24°35	6°31	11°52	9°20	15°38	18°33	23°57	12°37	21° 0	20°58	11°26	19°15	F 14
S 15	11 32 39	25° 2'22	23°59	26°35	7°39	11°29	9°28	15°38	18°37	24° 0	12°36	21° 1	20°55	11°33	19°19	S 15
S 16	11 36 36	26° 1'57	6≈26	28°35	8°47	11° 8	9°36	15°38	18°40	24° 2	12°36	21° 1	20°52	11°40	19°22	S 16
M17	11 40 32	27° 1'31	19°10	0 Υ 35	9°55	10°46	9°44	15°D38	18°43	24° 4	12°36	21° 2	20°49	11°47	19°26	M17
T 18	11 44 29	28° 1'02	2) 15	2°36	11° 3	10°25	9°52	15°38	18°46	24° 5	12°36	21° 2	20°46	11°53	19°29	T 18
W19	11 48 25	29° 0'32	15°41	4°38	12°10	10° 5	10° 0	15°38	18°50	24° 7	12°35	21°R 3	20°43	12° 0	19°33	W19
T 20	11 52 22	0°00 Y0	29°27	6°39	13°18	9°45	10° 8	15°38	18°53	24° 9	12°35	21° 3	20°39	12° 7	19°36	T 20
F 21	11 56 18	0°59'25	13 Y 30	8°41	14°25	9°26	10°17	15°39	18°56	24°11	12°35	21° 2	20°36	12°13	19°40	F 21
S 22	12 0 15	1°58'49	27°46	10°42	15°32	9° 7	10°26	15°39	18°59	24°13	12°35	21° 1	20°33	12°20	19°44	S 22
S 23	12 4 12	2°58'10	12811	12°42	16°39	8°49	10°34	15°40	19° 3	24°15	12°35	21° 0	20°30	12°27	19°47	S 23
M24	12 8 8	3°57'29	26°39	14°41	17°45	8°32	10°43	15°41	19° 6	24°17	12°35	20°58	20°27	12°34	19°51	M24
T 25	12 12 5	4°56'46	11 II 5	16°39	18°52	8°15	10°52	15°41	19°10	24°19	12°35	20°57	20°24	12°40	19°55	T 25
W26	12 16 1	5°56'01	25°24	18°34	19°58	7°59	11° 1	15°42	19°13	24°21	12°D35	20°56	20°20	12°47	19°58	W26
T 27	12 19 58	6°55'13	9935	20°28	21° 4	7°43	11°11	15°43	19°16	24°22	12°35	20°D56	20°17	12°54	20° 2	T 27
F 28	12 23 54	7°54'23	23°34	22°19	22° 9	7°28	11°20	15°45	19°20	24°24	12°35	20°56	20°14	13° 1	20° 6	F 28
S 29	12 27 51	8°53'30	7 Ω 20	24° 7	23°15	7°15	11°29	15°46	19°23	24°26	12°35	20°57	20°11	13° 7	20° 9	S 29
S 30	12 31 47	9°52'35	20°54	25°52	24°20	7° 1	11°39	15°47	19°26	24°28	12°35	20°59	20° 8	13°14	20°13	S 30
M31	12 35 44	10 Y 51'38	4 m) 15	27 Y 32	25 8 25	6 m 49	11 Ⅱ 49	159549	19 Y 30	24≈29	12935	21 Mg 0	20 Mg 4	13 × 21	20 Υ 17	M31

Day	0	D	3	Į	Ŷ)	d	7	2	4	ħ	l)	β (4	7	Р)	រា	Ω	¢	Š	;
	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	7 s25	16n37 4s	17 13 s24	2s 9	8n48	0n26	8n58	4n 6	21n15	0 s25	22n32	0n 0	6n29	0 s35	14s 8	0 s26	22n12	0 s40	3n34	3n19	17s 0	7n57	0n44
S 2	7 2	14 15 3	24 12 45	2 9		0 30	9 6	4 6	21 16	0 25	22 33	0 0	6 30	0 35	14 7	0 27	22 12	0 40	3 34	3 20		7 58	0 44
M 3	6 39	11 6 2	-	_		0 34	9 15		21 17	0 24		0 1	6 31	0 35		0 27	22 13	0 40	3 35	3 21	17 1	7 59	0 44
T 4 W 5	6 16 5 53	7 25 1 3 24 0n	-			0 38	9 23		21 19 21 20	0 24		0 1	6 33	0 35		0 27	22 13	0 40	3 35 3 35	3 22	17 2 17 3	8 0 8 2	0 44 0 43
T 6	5 30	3 24 0n 0s41 1	-			0 42 0 46	9 32 9 40	4 4 4 4	21 20	0 24 0 24		0 1 0 1	6 34	0 35		0 27 0 27	22 13 22 13	0 40 0 40	3 35	3 24 3 25	17 4	8 3	0 43
F 7	5 7	4 38 2				0 50	9 49		21 22		22 34	0 1	6 36			0 27		0 40	3 35	3 26	17 4	8 4	0 43
S 8	4 43	8 18 3	19 8 28	1 55	12 12	0 54	9 57	4 1	21 23	0 23	22 34	0 1	6 37	0 35	14 3	0 27	22 13	0 40	3 34	3 27	17 5	8 5	0 43
S 9	4 20	11 33 4	7 7 40	1 51	12 41	0 58	10 5	4 0	21 25	0 23	22 34	0 1	6 38	0 35	14 2	0 27	22 13	0 39	3 34	3 29	17 6	8 6	0 43
M10	3 56	14 15 4	43 6 51	1 46	13 8	1 2	10 13	3 59	21 26	0 23	22 35	0 1	6 40	0 35	14 1	0 27	22 13	0 39	3 34	3 30	17 7	8 7	0 43
T 11	3 33		6 6 1	1 41			10 20	3 57		0 23		0 1	6 41	0 35		0 27	22 14	0 39	3 34	3 31	17 7	8 9	0 43
W12	3 9		17 5 10				10 28		21 28	0 23		0 1	6 42	0 35		0 27	22 14	0 39	3 34	3 32	17 8	8 10	0 43
T 13 F 14	2 46 2 22						10 35 10 43		21 30 21 31	0 23 0 22		0 2 0 2	6 43 6 44	0 35		0 27 0 27	22 14 22 14	0 39	3 34	3 34 3 35		8 11 8 12	0 43
S 15		16 58 4			15 24		10 50		21 32		22 35	0 2	6 46				22 14	0 39	3 34		17 10	8 14	0 43
S 16	1 35	15 6 3	43 1 36	1 7	15 50	1 27	10 56	3 49	21 34	0 22	22 36	0 2	6 47	0 35	13 57	0 27	22 14	0 39	3 34	3 37	17 11	8 15	0 42
M17	1 11	12 26 2				-	11 3		21 35	0 22		0 2	6 48			0 27		0 39	3 34	3 39	17 12	8 16	0 42
T 18	0 47		42 0n16			1 35	-		21 36	0 22		0 2	6 49	0 35		0 27		0 39	3 33	3 40		8 17	0 42
W19 T 20	0 24 0n 0	5 12 0 0 56 0s					11 15 11 21		21 38 21 39	0 22 0 21		0 2 0 2	6 51 6 52	0 35		0 27 0 27		0 39	3 33 3 33		17 13 17 14	8 19 8 20	0 42 0 42
F 21	0 24	3n28 2	1 3 8				11 26		21 41	0 21		0 2	6 53			0 27		0 39	3 34		17 15	8 21	0 42
S 22	0 47	7 45 3	-				11 31		21 42	0 21		0 2	6 55				22 15	0 38	3 34	-	17 16	8 22	0 42
S 23	1 11	11 36 4	7 5 3	0n 1	18 41	1 55	11 36	3 35	21 43	0 21	22 36	0 3	6 56	0 35	13 53	0 27	22 15	0 38	3 35	3 46	17 16	8 24	0 42
M24	1 35	14 46 4	48 5 59	0 13	19 4	1 59	11 40		21 45	0 21		0 3	6 57	0 35	13 52	0 27	-	0 38	3 35	3 48		8 25	0 42
T 25	1 58			-		-	11 45		21 46	0 21		0 3				0 27		0 38	3 36	3 49	17 18	8 26	0 42
W26 T 27	2 22 2 45	18 9 5 18 9 5	15 7 51 0 8 45	0 36	19 48 20 10		11 48 11 52		21 48 21 49	0 20	22 36 22 36	0 3 0 3		0 35		0 27 0 27		0 38 0 38	3 36 3 36	3 50 3 51		8 28 8 29	0 42 0 41
F 28	3 8		26 9 37	1 0			11 52		21 49		22 36	0 3						0 38	3 36		17 19	8 30	0 41
S 29		14 57 3			20 51		11 58		21 52		22 36	0 3			13 49		22 15	0 38	3 35		17 21	8 32	0 41
S 30	3 55	12 3 2	39 11 18	1 23	21 11	2 23	12 1	3 18	21 54	0 20	22 36	0 3	7 5	0 35	13 49	0 27	22 15	0 38	3 35	3 55	17 21	8 33	0 41
M31	4n18	8n33 1 s	31 12n 5	1n34	21n31	2n27	12n 3	3n16	21n55	0 s20	22n36	0n 3	7n 6	0s35	13 s48	0 s27	22n15	0s38	3n34	3n56	17 s22	8n34	0n41

Julian Day Number = 2335092.5, Delta T = 23.00 sec Ecliptic obliquity = $23^{\circ}28'42$, Nutation = - $0^{\circ}00'01$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}17'23$, Lahiri = $19^{\circ}24'23$ Greg. Calendar

APRIL 1681 GC 00:00 UT

AI IX.	LL 100.	Luc													00.0	0 0 1
Day	Sid.t	0	D	ğ	φ	♂	4	ħ)મ(并	В	S.	Ω	Ç	ę,	Day
T 1	12 39 41	11 Y 50'38	17 m 23	29 Υ 9	26 8 30	6°R37	11 II 59	15951	19 Y 33	24≈31	12935	21°R 1	20 Mp 1	13 ∡ 27	20 Y 20	T 1
W 2	12 43 37	12°49'37	0 ჲ 19	0 8 41	27°34	6 m 26	12° 9	15°52	19°37	24°33	12°36	21 Mg 0	19°58	13°34	20°24	W 2
T 3	12 47 34	13°48'33	13° 2	2° 9	28°38	6°16	12°19	15°54	19°40	24°34	12°36	20°59	19°55	13°41	20°28	T 3
F 4	12 51 30	14°47'27	25°33	3°32	29°42	6° 7	12°29	15°56	19°44	24°36	12°36	20°56	19°52	13°48	20°32	F 4
S 5	12 55 27	15°46'19	7 M 52	4°49	0 П 45	5°58	12°39	15°58	19°47	24°38	12°36	20°53	19°49	13°54	20°35	S 5
S 6	12 59 23	16°45'10	20° 2	6° 1	1°49	5°50	12°49	16° 0	19°50	24°39	12°36	20°48	19°45	14° 1	20°39	S 6
M 7	13 3 20	17°43'58	2 ₹ 3	7° 8	2°52	5°43	13° 0	16° 3	19°54	24°41	12°37	20°44	19°42	14° 8	20°43	M 7
T 8	13 7 16	18°42'45	13°58	8° 9	3°54	5°37	13°10	16° 5	19°57	24°42	12°37	20°40	19°39	14°14	20°47	T 8
W 9	13 11 13	19°41'30	25°51	9° 4	4°56	5°32	13°21	16° 7	20° 1	24°44	12°37	20°36	19°36	14°21	20°50	W 9
T 10	13 15 10	20°40'13	7 云 44	9°53	5°58	5°27	13°32	16°10	20° 4	24°45	12°38	20°34	19°33	14°28	20°54	T 10
F 11	13 19 6	21°38'54	19°44	10°36	7° 0	5°23	13°42	16°13	20° 8	24°47	12°38	20°D33	19°30	14°35	20°58	F 11
S 12	13 23 3	22°37'34	1≈54	11°13	8° 1	5°20	13°53	16°15	20°11	24°48	12°39	20°34	19°26	14°41	21° 2	S 12
S 13	13 26 59	23°36'12	14°18	11°43	9° 2	5°18	14° 4	16°18	20°14	24°50	12°39	20°35	19°23	14°48	21° 6	S 13
M14	13 30 56	24°34'49	27° 2	12° 8	10° 3	5°16	14°15	16°21	20°18	24°51	12°39	20°37	19°20	14°55	21° 9	M14
T 15	13 34 52	25°33'23	10 ∺ 9	12°27	11° 3	5°15	14°26	16°24	20°21	24°52	12°40	20°38	19°17	15° 2	21°13	T 15
W16	13 38 49	26°31'56	23°42	12°39	12° 3	5°D15	14°38	16°27	20°25	24°54	12°40	20°R38	19°14	15° 8	21°17	W16
T 17	13 42 45	27°30'27	7 Υ 40	12°46	13° 2	5°16	14°49	16°31	20°28	24°55	12°41	20°37	19°10	15°15	21°21	T 17
F 18	13 46 42	28°28'57	22° 2	12°R47	14° 1	5°17	15° 0	16°34	20°32	24°56	12°41	20°34	19° 7	15°22	21°24	F 18
S 19	13 50 38	29°27'24	6 8 42	12°42	15° 0	5°19	15°12	16°37	20°35	24°57	12°42	20°30	19° 4	15°28	21°28	S 19
S 20	13 54 35	0825'50	21°34	12°31	15°58	5°22	15°24	16°41	20°38	24°59	12°43	20°24	19° 1	15°35	21°32	S 20
M21	13 58 32	1°24'14	6 Ⅱ 28	12°16	16°56	5°25	15°35	16°45	20°42	25° 0	12°43	20°18	18°58	15°42	21°36	M21
T 22	14 2 28	2°22'35	21°18	11°56	17°53	5°30	15°47	16°48	20°45	25° 1	12°44	20°12	18°55	15°49	21°39	T 22
W23	14 6 25	3°20'55	5955	11°32	18°49	5°35	15°59	16°52	20°49	25° 2	12°44	20° 8	18°51	15°55	21°43	W23
T 24	14 10 21	4°19'13	20°14	11° 3	19°46	5°40	16°11	16°56	20°52	25° 3	12°45	20° 5	18°48	16° 2	21°47	T 24
F 25	14 14 18	5°17'28	4 Ω 13	10°32	20°41	5°47	16°22	17° 0	20°55	25° 4	12°46	20°D 4	18°45	16° 9	21°50	F 25
S 26	14 18 14	6°15'41	17°52	9°58	21°36	5°54	16°34	17° 4	20°59	25° 5	12°47	20° 5	18°42	16°15	21°54	S 26
S 27	14 22 11	7°13'53	1 m) 12	9°22	22°31	6° 1	16°47	17° 8	21° 2	25° 6	12°47	20° 6	18°39	16°22	21°58	S 27
M28	14 26 7	8°12'02	14°15	8°44	23°25	6° 9	16°59	17°13	21° 5	25° 7	12°48	20°R 7	18°35	16°29	22° 1	M28
T 29	14 30 4	9°10'09	27° 3	8° 6	24°18	6°18	1 <u>7</u> °11	17°17	21° 9	25° 8	12°49	20° 7	18°32	16°36	22° 5	T 29
W30	14 34 1	108 8'14	9 ॒ 39	7 8 28	25 I I11	6 m 28	17 Ⅱ 23	179521	21 Y 12	25≈ 9	12950	20 mg 5	18 m 29	16 × 742	22 Y 9	W30

Day	0	D	3	Į	φ	C	3	2	ļ.	ŧ	l)	f(¥		Р		v	Ω	ţ	Š	
	decl	decl lat	decl	lat de	l lat	decl	lat	decl	lat	decl	lat	decl	lat	decl la	at	decl	lat	decl	decl	decl	decl	lat
T 1 W 2	4n41 5 4		s20 12n50 n51 13 32			-		21n56 21 58		22n36 22 35	0n 3 0 3					22n15 22 15	0s38 0 38	3n34 3 34	3n58 3 59		8n36 8 37	0n41 0 41
T 3	5 27		58 14 12	-		-		21 59		22 35	0 4				-	-	0 38	3 35	4 0	-,	8 38	0 41
F 4 S 5	5 50		59 14 49			-		22 1		22 35	0 4				-	22 16	0 37	3 36	4 1	17 25	8 40	0 41
			50 15 24			12 10		22 2		22 35	0 4						0 37	3 37	4 3		8 41	0 41
S 6 M 7			29 15 56 57 16 25	-		12 11 12 11	3 0 2 58		0 19	22 35 22 35	0 4 0 4	7 14 7 15				22 16 22 16	0 37	3 39	4 4 4	1, 20	8 42 8 44	0 41
T 8			11 16 50		-	12 11	2 55			22 33	0 4			-	-	22 16 22 16	0 37	3 42	4 6		8 45	0 41
W 9			12 17 13			12 10				22 34	0 4					22 16	0 37	3 44	4 8		8 46	0 40
T 10		-	59 17 33	-	-	-		22 10		22 34	0 4				-	22 16	0 37	3 45	4 9	-, -,	8 48	0 40
F 11 S 12			33 17 50 55 18 3			12 8 12 7		22 11 22 13		22 34 22 34	0 4 0 4						0 37	3 45 3 45	4 10	17 29 17 30	8 49 8 50	0 40
S 13 M14	-	13 36 3 10 33 2	5 18 14 5 18 21	3 0 24 5 25 25		-		22 14 22 15	0 18	22 33 22 33	0 4 0 5			-	-	22 16 22 16	0 37 0 37	3 44		17 31 17 31	8 52 8 53	0 40
T 15	9 54		57 18 25					22 17		22 33	0 5			-	-	22 16	0 37	3 43	4 15		8 54	0 40
W16	10 15	2 46 0s	s17 18 26	2 55 25 3	3 18	11 59	2 34	22 18	0 17	22 32	0 5	7 27	0 35	13 41	0 27	22 16	0 37	3 43	4 16	17 33	8 56	0 40
T 17	10 36		31 18 24			11 57		22 20		22 32	0 5					22 16	0 36	3 43		17 33	8 57	0 40
F 18 S 19	10 57 11 18		42 18 19 44 18 10			11 54 11 51		22 21 22 23		22 32 22 31	0 5 0 5				-	22 16 22 16	0 36	3 45 3 46	-	17 34 17 35	8 59 9 0	0 40 0 40
S 20 M21	11 38 11 59		31 17 59 0 17 45			11 47 11 44		22 24 22 25		22 31 22 31	0 5 0 5				-	22 16 22 16	0 36	3 49 3 51		17 35 17 36	9 1 9 3	0 40 0 40
T 22			9 17 29					22 27		22 30	0 5					22 16	0 36	3 53		17 37	9 4	0 40
W23	12 39	18 23 4	58 17 9	1 56 26 3	3 33	11 36	2 16	22 28	0 16	22 30	0 5	7 36	0 35	13 38	0 28	22 16	0 36	3 55	4 25	17 37	9 5	0 39
T 24			28 16 48			11 31		22 29		22 30	0 5					22 16	0 36	3 56	4 26		9 7	0 39
F 25 S 26	-		42 16 24 45 15 59			11 27 11 22		22 31 22 32		22 29 22 29	0 5 0 6				-	22 16 22 16	0 36 0 36	3 56 3 56		17 39 17 39	9 8	0 39
S 27 M28	13 57 14 16		40 15 33 32 15 5			11 17 11 12		22 33 22 35		22 28 22 28	0 6				-	22 16 22 16	0 36	3 56 3 55	4 30	17 40 17 40	9 10 9 12	0 39
T 29	14 34		n37 14 37		3 3 41			22 36		22 27	0 6					22 16	0 36	3 55	-	17 41	9 13	0 39
W30	14n53	2s15 1n	n43 14n 8	0n 7 27n	6 3n42	11n 1		22n37	0s15	22n27	0n 6	7n45	0s35	13 s36	0 s28	22n16	0s36	3n56	4n34	17 s42	9n14	0n39

Julian Day Number = 2335123.5, Delta T = 22.95 sec Ecliptic obliquity = 23°28'42, Nutation = -0°00'03, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}17'27$, Lahiri = $19^{\circ}24'28$ Greg. Calendar

MAY 1681 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	24	ħ)ұ(并	Р	ß	Ω	Ç	ę,	Day
T 1	14 37 57	118 6'18	22 º 4	6°R51	26耳 3	6 m 38	17 Ⅲ 35	179526	21 Y 15	25≈10	12951	20°R 1	18 m 26	16 √ 49	22 Υ 12	T 1
F 2	14 41 54	12° 4'20	4 M 21	6 8 15	26°54	6°48	17°48	17°31	21°19	25°11	12°51	19 m /54	18°23	16°56	22°16	F 2
S 3	14 45 50	13° 2'20	16°29	5°41	27°45	7° 0	18° 0	17°35	21°22	25°12	12°52	19°46	18°20	17° 3	22°19	S 3
S 4	14 49 47	14° 0'18	28°32	5° 9	28°35	7°11	18°13	17°40	21°25	25°12	12°53	19°36	18°16	17° 9	22°23	S 4
M 5	14 53 43	14°58'16	10 x ⁷ 29	4°41	29°24	7°24	18°25	17°45	21°28	25°13	12°54	19°25	18°13	17°16	22°27	M 5
T 6	14 57 40	15°56'11	22°22	4°16	09512	7°36	18°38	17°50	21°32	25°14	12°55	19°15	18°10	17°23	22°30	T 6
W 7	15 1 36	16°54'05	4 궁 14	3°54	1° 0	7°50	18°50	17°55	21°35	25°15	12°56	19° 6	18° 7	17°29	22°34	W 7
T 8	15 5 33	17°51'58	16° 7	3°37	1°47	8° 4	19° 3	18° 0	21°38	25°15	12°57	19° 0	18° 4	17°36	22°37	T 8
F 9	15 9 30	18°49'50	28° 6	3°24	2°33	8°18	19°16	18° 5	21°41	25°16	12°58	18°55	18° 1	17°43	22°41	F 9
S 10	15 13 26	19°47'40	10≈13	3°15	3°18	8°33	19°29	18°10	21°44	25°16	12°59	18°53	17°57	17°50	22°44	S 10
S 11	15 17 23	20°45'29	22°35	3°D11	4° 2	8°48	19°41	18°15	21°47	25°17	13° 0	18°D52	17°54	17°56	22°48	S 11
M12	15 21 19	21°43'17	5) 15	3°11	4°45	9° 4	19°54	18°21	21°50	25°18	13° 1	18°53	17°51	18° 3	22°51	M12
T 13	15 25 16	22°41'04	18°18	3°16	5°27	9°21	20° 7	18°26	21°53	25°18	13° 2	18°R53	17°48	18°10	22°54	T 13
W14	15 29 12	23°38'49	1 Ƴ 49	3°25	6° 8	9°38	20°20	18°32	21°57	25°19	13° 3	18°53	17°45	18°17	22°58	W14
T 15	15 33 9	24°36'34	15°48	3°39	6°48	9°55	20°33	18°37	22° 0	25°19	13° 4	18°50	17°41	18°23	23° 1	T 15
F 16	15 37 5	25°34'17	0 8 15	3°58	7°27	10°13	20°46	18°43	22° 3	25°19	13° 5	18°45	17°38	18°30	23° 4	F 16
S 17	15 41 2	26°31'59	15° 6	4°21	8° 5	10°31	20°59	18°49	22° 6	25°20	13° 6	18°37	17°35	18°37	23° 8	S 17
S 18	15 44 59	27°29'40	0 П 13	4°48	8°42	10°49	21°13	18°54	22° 9	25°20	13° 8	18°28	17°32	18°43	23°11	S 18
M19	15 48 55	28°27'20	15°27	5°19	9°17	11° 8	21°26	19° 0	22°11	25°20	13° 9	18°18	17°29	18°50	23°14	M19
T 20	15 52 52	29°24'58	0937	5°54	9°51	11°28	21°39	19° 6	22°14	25°21	13°10	18° 9	17°26	18°57	23°17	T 20
W21	15 56 48	0 Ⅲ 22'35	15°32	6°33	10°23	11°48	21°52	19°12	22°17	25°21	13°11	18° 1	17°22	19° 4	23°21	W21
T 22	16 0 45	1°20'11	0 Ω 5	7°17	10°55	12° 8	22° 5	19°18	22°20	25°21	13°12	17°55	17°19	19°10	23°24	T 22
F 23	16 441	2°17'45	14°13	8° 3	11°24	12°28	22°19	19°24	22°23	25°21	13°13	17°52	17°16	19°17	23°27	F 23
S 24	16 8 38	3°15'18	27°55	8°54	11°53	12°50	22°32	19°30	22°26	25°21	13°15	17°51	17°13	19°24	23°30	S 24
S 25	16 12 34	4°12'49	11 m 12	9°48	12°19	13°11	22°45	19°37	22°29	25°21	13°16	17°51	17°10	19°30	23°33	S 25
M26	16 16 31	5°10'19	24° 7	10°45	12°44	13°33	22°59	19°43	22°31	25°22	13°17	17°51	17° 7	19°37	23°36	M26
T 27	16 20 28	6° 7'47	6 ≏ 45	11°45	13° 8	13°55	23°12	19°49	22°34	25°22	13°19	17°50	17° 3	19°44	23°39	T 27
W28	16 24 24	7° 5'14	19° 9	12°49	13°29	14°17	23°26	19°56	22°37	25°R22	13°20	17°46	17° 0	19°51	23°42	W28
T 29	16 28 21	8° 2'41	1 ML 22	13°56	13°49	14°40	23°39	20° 2	22°39	25°22	13°21	17°40	16°57	19°57	23°45	T 29
F 30	16 32 17	9° 0'05	13°27	15° 7	14° 7	15° 3	23°53	20° 8	22°42	25°21	13°22	17°31	16°54	20° 4	23°48	F 30
S 31	16 36 14	9∏57'29	25 M 27	16820	149523	15 M 27	24 I I 6	209915	22 Y 45	25≈21	139524	17 m 20	16 M 51	20 × 11	23 Y 51	S 31

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	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl decl	decl lat
T 1 F 2 S 3	15n11 15 29 15 47		13 11 0 2	28 27 10 3 44	10 49 1 55	22 40 0 15	22n26	7 47 0 35		22 16 0 35	3n58 4 0 4 4	4n35 17s42 4 36 17 43 4 37 17 44	9n16 0n39 9 17 0 39 9 18 0 39
S 4 M 5 T 6 W 7 T 8	16 21 16 38 16 55 17 11	17 5 5 1 18 12 5 4 18 31 4 54 18 0 4 32	11 53 1 1 11 30 1 3 11 9 1 4 10 50 2	18 27 13 3 44 33 27 13 3 44 48 27 12 3 44 2 27 11 3 43	10 29 1 49 10 23 1 46 10 16 1 44 10 8 1 42	22 44 0 15 22 45 0 15 22 46 0 15 22 47 0 14	22 25 0 6 22 24 0 6 22 24 0 6 22 23 0 7 22 22 0 7	7 51 0 35 7 52 0 35 7 53 0 35 7 54 0 35	13 34 0 28 13 34 0 28 13 34 0 28 13 34 0 28	22 16 0 35 22 16 0 35 22 16 0 35 22 16 0 35	4 8 4 12 4 16 4 19 4 22	4 39 17 44 4 40 17 45 4 41 17 45 4 42 17 46 4 44 17 47	9 20 0 39 9 21 0 39 9 22 0 39 9 23 0 39 9 25 0 38
F 9 S 10 S 11	17 43 17 58	14 38 3 11 11 52 2 16	10 7 2 3	27 27 7 3 41 38 27 5 3 40	9 53 1 38 9 46 1 36	22 49 0 14 22 51 0 14	22 22 0 7 22 21 0 7 22 21 0 7	7 57 0 35 7 58 0 35	13 33 0 28	22 16 0 35 22 16 0 35	4 24 4 24 4 25	4 45 17 47 4 46 17 48 4 47 17 48	9 26 0 38 9 27 0 38 9 28 0 38
M12 T 13 W14 T 15 F 16 S 17	18 13 18 28 18 43 18 57 19 11 19 25	8 29 1 12 4 35 0 3 0 19 1s 8 4n 6 2 18 8 26 3 21 12 22 4 13	9 50 2 5 9 46 3 9 44 3 1 9 44 3 1	58 26 59 3 37 6 26 55 3 35 13 26 51 3 33	9 22 1 30 9 13 1 28 9 5 1 26	22 53 0 14 22 54 0 14 22 55 0 14 22 56 0 14	22 19 0 7 22 19 0 7	8 0 0 35 8 1 0 35 8 2 0 35 8 4 0 35	13 33 0 28 13 33 0 28 13 33 0 28	22 16 0 35 22 16 0 34 22 16 0 34 22 16 0 34	4 24 4 24 4 25 4 26 4 28 4 30	4 49 17 49 4 50 17 49 4 51 17 50 4 52 17 51 4 54 17 51 4 55 17 52	9 29 0 38 9 31 0 38 9 32 0 38 9 33 0 38 9 34 0 38 9 35 0 38
S 18 M19 T 20 W21 T 22 F 23 S 24	20 39	17 41 5 2 18 34 4 55 18 8 4 28 16 30 3 45	9 59 3 3 10 9 3 3 10 20 3 3 10 34 3 3 10 49 3 3	32 26 30 3 22 34 26 24 3 18 35 26 18 3 14 36 26 11 3 10	8 38 1 20 8 29 1 18 8 20 1 17 8 10 1 15 8 1 1 13	22 59 0 13 23 0 0 13 23 1 0 13 23 2 0 13 23 3 0 13	22 14 0 8 22 14 0 8 22 13 0 8	8 7 0 35 8 8 0 35 8 9 0 35 8 10 0 35 8 11 0 35	13 32 0 28 13 32 0 28	22 16 0 34 22 16 0 34 22 16 0 34 22 16 0 34 22 16 0 34	4 34 4 38 4 42 4 45 4 47 4 48 4 49	4 56 17 52 4 57 17 53 4 59 17 53 5 0 17 54 5 1 17 55 5 2 17 55 5 3 17 56	9 37 0 38 9 38 0 38 9 39 0 38 9 40 0 38 9 41 0 38 9 42 0 38 9 43 0 38
T 29 F 30	21 1 21 12 21 22 21 32 21 41 21 50 21n59	2 51 0n33 1s11 1 38 5 5 2 37 8 43 3 28 11 56 4 9	11 24 3 3 11 45 3 3 12 6 3 2 12 29 3 2 12 54 3 1	33 25 50 2 56 30 25 42 2 51 27 25 34 2 45 33 25 26 2 39 18 25 17 2 33 33 25 9 2 26	7 41 1 9 7 31 1 8 7 21 1 6 7 11 1 4 7 1 1 3 6 50 1 1	23 4 0 13 23 5 0 12 23 6 0 12 23 7 0 12 23 7 0 12 23 8 0 12	22 10 0 8 22 10 0 8 22 9 0 8 22 9 0 8 22 8 0 8 22 7 0 8	8 13 0 35 8 14 0 35 8 15 0 35 8 16 0 35 8 17 0 35 8 18 0 35	13 32 0 28 13 32 0 28 13 32 0 28 13 32 0 28 13 32 0 29 13 32 0 29	22 15 0 34 22 15 0 34 22 15 0 34 22 15 0 34 22 15 0 33	4 49 4 49 4 49 4 50 4 53 4 56 5n 1	5 5 17 56 5 6 17 57 5 7 17 57 5 8 17 58 5 10 17 58 5 11 17 59 5n12 17s59	9 44 0 38 9 46 0 37 9 47 0 37 9 48 0 37 9 49 0 37 9 50 0 37 9n51 0n37

Julian Day Number = 2335153.5, Delta T = 22.91 sec Ecliptic obliquity = $23^{\circ}28'42$, Nutation = - $0^{\circ}00'05$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}17'31$, Lahiri = $19^{\circ}24'32$ Greg. Calendar

JUNE 1681 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ)Å(并	Р	S.	Ω	Ç	, k	Day
S 1	16 40 10	10 Ⅱ 54'52	7 . ₹23	17 8 36	14937	15 m 50	24∏20	209522	22 Y 47	25°R21	139525	17°R 7	16 m 47	20 × 18	23 Y 54	S 1
M 2	16 44 7	11°52'14	19°16	18°55	14°49	16°15	24°33	20°28	22°50	25≈21	13°26	16 m 53	16°44	20°24	23°56	M 2
T 3	16 48 3	12°49'36	1る 9	20°18	14°58	16°39	24°47	20°35	22°52	25°21	13°28	16°40	16°41	20°31	23°59	T 3
W 4	16 52 0	13°46'56	13° 2	21°43	15° 6	17° 4	25° 0	20°42	22°55	25°21	13°29	16°28	16°38	20°38	24° 2	W 4
T 5	16 55 57	14°44'16	24°57	23°11	15°11	17°29	25°14	20°48	22°57	25°20	13°31	16°18	16°35	20°44	24° 5	T 5
F 6	16 59 53	15°41'35	6≈58	24°41	15°14	17°54	25°27	20°55	22°59	25°20	13°32	16°11	16°32	20°51	24° 7	F 6
S 7	17 3 50	16°38'54	19° 7	26°15	15°R15	18°19	25°41	21° 2	23° 2	25°20	13°33	16° 7	16°28	20°58	24°10	S 7
S 8	17 7 46	17°36'12	1) €28	27°51	15°14	18°45	25°55	21° 9	23° 4	25°19	13°35	16° 5	16°25	21° 5	24°12	S 8
M 9	17 11 43	18°33'30	14° 6	29°31	15°10	19°11	26° 8	21°16	23° 6	25°19	13°36	16° 5	16°22	21°11	24°15	M 9
T 10	17 15 39	19°30'48	27° 6	1 II 13	15° 4	19°38	26°22	21°23	23° 9	25°19	13°38	16° 5	16°19	21°18	24°18	T 10
W11	17 19 36	20°28'05	10 Y 30	2°57	14°55	20° 5	26°36	21°30	23°11	25°18	13°39	16° 4	16°16	21°25	24°20	W11
T 12	17 23 32	21°25'22	24°23	4°45	14°44	20°31	26°49	21°37	23°13	25°18	13°41	16° 1	16°13	21°32	24°22	T 12
F 13	17 27 29	22°22'38	8 8 44	6°35	14°31	20°59	27° 3	21°44	23°15	25°17	13°42	15°56	16° 9	21°38	24°25	F 13
S 14	17 31 26	23°19'55	23°31	8°28	14°15	21°26	27°17	21°51	23°17	25°17	13°44	15°48	16° 6	21°45	24°27	S 14
S 15	17 35 22	24°17'11	8П39	10°23	13°57	21°54	27°30	21°58	23°19	25°16	13°45	15°38	16° 3	21°52	24°29	S 15
M16	17 39 19	25°14'27	23°57	12°21	13°37	22°22	27°44	22° 6	23°21	25°16	13°47	15°28	16° 0	21°58	24°32	M16
T 17	17 43 15	26°11'42	99514	14°21	13°14	22°50	27°58	22°13	23°23	25°15	13°48	15°17	15°57	22° 5	24°34	T 17
W18	17 47 12	27° 8'57	24°20	16°23	12°49	23°19	28°11	22°20	23°25	25°14	13°50	15° 9	15°53	22°12	24°36	W18
T 19	17 51 8	28° 6'11	9Ω 4	18°27	12°23	23°47	28°25	22°27	23°27	25°14	13°51	15° 2	15°50	22°19	24°38	T 19
F 20	17 55 5	29° 3'25	23°22	20°32	11°54	24°16	28°39	22°35	23°29	25°13	13°53	14°59	15°47	22°25	24°40	F 20
S 21	17 59 1	09 0'38	7 m) 1 1	22°40	11°24	24°45	28°53	22°42	23°31	25°12	13°54	14°57	15°44	22°32	24°42	S 21
S 22	18 2 58	0°57'51	20°33	24°48	10°52	25°15	29° 6	22°50	23°33	25°11	13°56	14°D57	15°41	22°39	24°44	S 22
M23	18 6 55	1°55'03	3 ₾ 29	26°58	10°18	25°44	29°20	22°57	23°34	25°11	13°57	14°R57	15°38	22°45	24°46	M23
T 24	18 10 51	2°52'15	16° 5	29° 8	9°44	26°14	29°34	23° 4	23°36	25°10	13°59	14°57	15°34	22°52	24°48	T 24
W25	18 14 48	3°49'26	28°24	19518	9° 8	26°44	29°47	23°12	23°38	25° 9	14° 0	14°54	15°31	22°59	24°50	W25
T 26	18 18 44	4°46'37	10MJ32	3°29	8°31	27°14	0ණ 1	23°19	23°39	25° 8	14° 2	14°49	15°28	23° 6	24°52	T 26
F 27	18 22 41	5°43'47	22°31	5°40	7°54	27°45	0°15	23°27	23°41	25° 7	14° 3	14°42	15°25	23°12	24°53	F 27
S 28	18 26 37	6°40'58	4 ₹ 26	7°50	7°17	28°15	0°28	23°35	23°42	25° 6	14° 5	14°32	15°22	23°19	24°55	S 28
S 29	18 30 34	7°38'08	16°19	10° 0	6°39	28°46	0°42	23°42	23°44	25° 5	14° 6	14°20	15°19	23°26	24°57	S 29
M30	18 34 30	8935'18	28 × 11	1295 9	69 1	29 m 17	0955	23950	23 Y 45	25≈ 4	1495 8	14Mp 8	15 m 15	23 × ⁷ 33	24 Y 58	M30

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S 1	22n 7			14n14		24n51	2n11	6n29		23n10		22n 4				13 s32		22n15	0s33	5n 6	-	18s 0	9n52	0n37
M 2 T 3	22 15 22 22	18 4 18 38		14 42 15 11	2 53	24 42 24 32	2 3 1 55	6 18 6 7		23 10 23 11	0 12 0 12			8 21 8 22		13 32 13 33		22 15 22 15	0 33 0 33	5 11 5 16	5 15 5 16		9 53 9 54	0 37 0 37
W 4	22 29		4 29	15 41	2 37		1 46	5 56		23 12	0 11			8 23			0 29		0 33	5 21	5 17		9 55	0 37
T 5	22 36	17 19	3 55	16 12	2 29	24 13	1 37	5 45	0 51	23 12	0 11		0 9	8 24	0 35	13 33	0 29	22 15	0 33	5 25	5 18	18 2	9 56	0 37
F 6	22 43			16 43	2 20		1 27	5 33		23 13	0 11			8 24			0 29		0 33	5 28	5 20		9 57	0 37
S 7	22 48	12 56	2 17	17 14	2 10	23 53	1 17	5 22	0 48	23 13	0 11	21 59	0 9	8 25	0 35	13 33	0 29	22 15	0 33	5 29	5 21	18 3	9 57	0 37
S 8	22 54	9 47	-	17 46		23 43	1 7	5 10		23 14		21 58		8 26		13 33	0 29		0 33	5 30	5 22		9 58	0 37
	22 59	6 6		18 17		23 33	0 56	4 59		23 14	-	21 57	-	8 27		13 33	0 29		0 33	5 30	5 23	-	9 59	0 37
	23 4 23 8	2 3 2n15		18 49 19 20		23 22 23 12	0 45	4 47		23 15		21 56		8 28 8 29		13 33	0 29 0 29		0 33 0 33	5 30	5 25		10 0 10 1	0 37
	23 12	-		19 20	1 18		0 33	4 35 4 23		23 15 23 16		21 55 21 54		8 29		13 34 13 34	0 29		0 33	5 30	5 26 5 27	18 6	-	0 37
	-	10 38	-	20 21	1 6		0 21	4 11		23 16		21 53		8 30		13 34	0 29		0 32	5 34	5 28	18 6		
		14 11	-	20 51		22 39	0s 4	3 59		23 17		21 52		8 31		13 34			0 32	5 37	5 29	18 7	-	0 36
S 15	23 21	16 52	4 59	21 19	0 44	22 28	0 17	3 47	0 37	23 17	0 10	21 50	0 10	8 32	0 35	13 34	0 29	22 14	0 32	5 40	5 31	18 7	10 4	0 36
M16	23 24	18 23	4 58	21 47	0 32	22 17	0 30	3 35	0 35	23 17	0 10	21 49	0 10	8 32	0 35	13 35	0 29	22 14	0 32	5 44	5 32	18 8	10 5	0 36
T 17	23 25	18 35	4 35	22 13	0 21		0 44	3 22	0 34	23 18		21 48	0 10	8 33	0 35	13 35	0 29	22 14	0 32	5 48	5 33		10 6	0 36
		17 27		22 37		21 54	0 57	3 10		23 18		21 47	0 10	8 34		13 35	0 29		0 32	5 52	5 34		10 7	0 36
1		15 10	2 58			21 43	1 11	2 57		23 18		21 46		8 34		13 35		22 14	0 32	5 54	5 36		10 7	0 36
	23 28			23 21		21 32	1 25	2 44		23 18		21 45	0 10			13 36		22 13	0 32	5 56	5 37		10 8	0 36
	23 29	8 15		23 40		21 20	1 40	2 32		23 19		21 44		8 36		13 36			0 32	5 56		18 10		0 36
	23 28	4 12		23 56	0 33		1 54	2 19		23 19		21 43		8 36		13 36	0 29		0 32	5 56		18 10		0 36
	23 28	0 5		24 10		20 57	2 8	2 6		23 19		21 42		8 37		13 36	0 29	-	0 32	5 56	-	18 11		0 36
	23 27	3 s55		24 21		20 45	2 22	1 53		23 19		21 40		8 38			0 29	-	0 32 0 32	5 56 5 57	-	18 11	-	0 36 0 36
	23 25 23 24	7 40 11 2		24 2924 35	1 1	20 34 20 23	2 36 2 50	1 40 1 26		23 19 23 19	0 9	21 39 21 38	0 10 0 11	8 38 8 39			0 29 0 29		0 32	5 59		18 12 18 12		0 36
F 27	-	13 55		24 33		20 23	3 4	1 13		23 19		21 36	-	8 39				-	0 32	6 2		18 13		0 36
	23 19		-	24 38	1 23		3 17	1 0		23 20		21 36		8 40		13 38		22 13	0 31	6 6		18 13		0 36
S 29	23 15	17 46	5 2	24 35	1 29	19 49	3 30	0 46	0 19	23 20	0 9	21 34	0 11	8 40	0 36	13 38	0 29	22 13	0 31	6 10	5 48	18 14	10 14	0 36
M30	23n12	18 s 3 5	4n53	24n30	1n35	19n38	3 s42	0n33		23n20	0s 9	21n33	0n11	8n41		13 s39	0 s29	22n12	0 s 3 1	6n15	5n49	18s14	10n14	0n36

Julian Day Number = 2335184.5, Delta T = 22.86 sec Ecliptic obliquity = 23°28'41, Nutation = -0°00'05, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}17'36$, Lahiri = $19^{\circ}24'36$ Greg. Calendar

JULY 1681 GC 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ď	4	ħ)∤(卉	Р	n	v	Ç	Ŷ,	Day
T 1	18 38 27	9932'28	10ට 5	149516	5°R24	29 m 48	195 9	23957	23 Y 47	25°R 3	149510	13°R57	15 Mp 12	23 х 39	25 Υ 0	T 1
W 2	18 42 24	10°29'39	22° 3	16°23	49548	0 ჲ 20	1°23	24° 5	23°48	25≈ 2	14°11	13 m 46	15° 9	23°46	25° 1	W 2
T 3	18 46 20	11°26'49	4≈ 4	18°28	4°12	0°51	1°36	24°13	23°49	25° 1	14°13	13°38	15° 6	23°53	25° 3	T 3
F 4	18 50 17	12°24'00	16°12	20°32	3°38	1°23	1°50	24°20	23°51	25° 0	14°14	13°32	15° 3	23°59	25° 4	F 4
S 5	18 54 13	13°21'11	28°29	22°34	3° 4	1°55	2° 3	24°28	23°52	24°59	14°16	13°29	14°59	24° 6	25° 5	S 5
S 6	18 58 10	14°18'22	10 ∺ 57	24°34	2°33	2°27	2°17	24°36	23°53	24°58	14°17	13°D28	14°56	24°13	25° 7	S 6
M 7	19 2 6	15°15'33	23°39	26°33	2° 2	3° 0	2°30	24°43	23°54	24°57	14°19	13°28	14°53	24°20	25° 8	M 7
T 8	19 6 3	16°12'46	6 Ƴ 39	28°30	1°34	3°32	2°44	24°51	23°55	24°56	14°21	13°29	14°50	24°26	25° 9	T 8
W 9	19 9 59	17° 9'58	20° 1	0 Ω 25	1° 8	4° 5	2°57	24°59	23°56	24°54	14°22	13°R29	14°47	24°33	25°10	W 9
T 10	19 13 56	18° 7'12	3 8 46	2°18	0°43	4°37	3°11	25° 6	23°57	24°53	14°24	13°28	14°44	24°40	25°11	T 10
F 11	19 17 53	19° 4'26	1 <u>7</u> °57	4° 9	0°21	5°10	3°24	25°14	23°58	24°52	14°25	13°25	14°40	24°46	25°12	F 11
S 12	19 21 49	20° 1'41	2 Ⅱ 31	5°59	0° 1	5°44	3°37	25°22	23°59	24°51	14°27	13°20	14°37	24°53	25°13	S 12
S 13	19 25 46	20°58'56	17°25	7°47	29 Ⅱ 43	6°17	3°51	25°30	24° 0	24°49	14°28	13°13	14°34	25° 0	25°14	S 13
M14	19 29 42	21°56'13	2932	9°33	29°28	6°50	4° 4	25°37	24° 1	24°48	14°30	13° 5	14°31	25° 7	25°15	M14
T 15	19 33 39	22°53'30	17°40	11°17	29°15	7°24	4°17	25°45	24° 1	24°47	14°31	12°58	14°28	25°13	25°16	T 15
W16	19 37 35	23°50'47	2 Ω 42	12°59	29° 4	7°58	4°31	25°53	24° 2	24°46	14°33	12°52	14°24	25°20	25°17	W16
T 17	19 41 32	24°48'05	17°27	14°39	28°56	8°32	4°44	26° 1	24° 3	24°44	14°35	12°47	14°21	25°27	25°17	T 17
F 18	19 45 29	25°45'23	1 M 48	16°18	28°50	9° 6	4°57	26° 9	24° 3	24°43	14°36	12°45	14°18	25°34	25°18	F 18
S 19	19 49 25	26°42'42	15°42	17°54	28°46	9°40	5°10	26°16	24° 4	24°41	14°38	12°D45	14°15	25°40	25°19	S 19
S 20	19 53 22	27°40'01	29° 9	19°29	28°D45	10°15	5°23	26°24	24° 4	24°40	14°39	12°45	14°12	25°47	25°19	S 20
M21	19 57 18	28°37'20	12 ≏ 11	21° 2	28°46	10°49	5°37	26°32	24° 5	24°39	14°41	12°47	14° 9	25°54	25°20	M21
T 22	20 1 15	29°34'40	24°49	22°33	28°50	11°24	5°50	26°40	24° 5	24°37	14°42	12°R48	14° 5	26° 0	25°20	T 22
W23	20 5 11	0 Q 32'00	7 M ₊10	24° 3	28°55	11°59	6° 3	26°47	24° 5	24°36	14°44	12°48	14° 2	26° 7	25°20	W23
T 24	20 9 8	1°29'21	19°17	25°30	29° 3	12°34	6°16	26°55	24° 6	24°34	14°45	12°46	13°59	26°14	25°21	T 24
F 25	20 13 4	2°26'43	1 才 16	26°56	29°13	13° 9	6°28	27° 3	24° 6	24°33	14°47	12°42	13°56	26°21	25°21	F 25
S 26	20 17 1	3°24'05	13° 9	28°19	29°25	13°44	6°41	27°11	24° 6	24°31	14°48	12°37	13°53	26°27	25°21	S 26
S 27	20 20 58	4°21'27	25° 1	29°41	29°39	14°20	6°54	27°18	24° 6	24°30	14°50	12°31	13°50	26°34	25°21	S 27
M28	20 24 54	5°18'51	6 궁 55	1 m y 1	29°55	14°55	7° 7	27°26	24° 6	24°28	14°51	12°25	13°46	26°41	25°21	M28
T 29	20 28 51	6°16'15	18°53	2°18	09୍ତ12	15°31	7°20	27°34	24°R 6	24°27	14°53	12°18	13°43	26°47	25°R21	T 29
W30	20 32 47	7°13'40	0≈57	3°34	0°32	16° 7	7°32	27°42	24° 6	24°25	14°54	12°12	13°40	26°54	25°21	W30
T 31	20 36 44	8 Ω 11'06	13 ≈ 9	4 Mp 47	0954	16 ≏ 43	79545	279549	24 Y 6	24≈24	149556	12 Mp 8	13 m 37	27 ₹ 1	25 Y 21	T 31

Day	0	D	1		φ	(3	2	ł	ŧ	ì.);	β(¥		Р	n	v	Ç	ķ	;
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T 1 W 2	23n 8 23 4		n32 24n21 58 24 11		19n28 3 s 19 18 4	6 0 0 6		23n20 23 20		21n32 21 31	0n11 0 11	8n41 8 42	0s36 0 36			22n12 0s31 22 12 0 31	6n20 6 24	5n50 5 52		10n15 10 15	0n36 0 36
T 3 F 4	22 59 22 54	13 47 2	14 23 57 20 23 42	1 48		28 0 21	0 13	23 19 23 19	0 9	21 28	0 11 0 11	8 42 8 43	0 36	13 40	29	22 12 0 31 22 12 0 31	6 27 6 29	5 54	18 15 18 16	10 16	0 36 0 36
S 5 S 6	22 48 22 43	7 16 0	19 23 24 13 23 4	1 51	18 49 4 1 18 40 4	0 49	0 10	23 1923 19	0 8	21 26	0 11 0 11	8 43 8 44	0 36	13 41 0	29	22 12 0 31 22 12 0 31	6 30 6 31	5 57	18 16 18 17	10 17	0 36 0 35
M 7 T 8 W 9	22 36 22 30 22 22	3 21 0s 0n48 2 5 1 3	s54 22 42 1 22 18 3 21 53	1 51	18 32 4 18 25 5 18 17 5	56 1 3 4 1 17 11 1 31	0 8	23 19 23 19 23 19	0 8 0 8 0 8	21 23	0 11 0 12 0 12	8 44 8 44 8 45		13 42 0	30	22 12 0 31 22 12 0 31 22 11 0 31	6 30	5 58 5 59 6 0	18 18	10 18	0 35 0 35 0 35
T 10 F 11	22 15 22 7	9 5 3 12 46 4	56 21 26 37 20 57	1 48	18 11 5 18 5 5	18 1 45 24 1 59	0 6 0 5	23 18 23 18	0 8 0 8	21 20 21 19	0 12 0 12	8 45 8 45	0 36 0 36	13 43 0 13 43 0	30 2	22 11 0 31 22 11 0 31	6 31 6 32	6 1 6 3	18 18 18 19	10 19 10 19	0 35 0 35
S 12 S 13	21 59 21 50	17 49 5	1 20 28 6 19 57	1 39	17 59 5 1 17 54 5 1	2 27	0 4 0 3	23 18	0 8	21 16	0 12 0 12	8 46 8 46	0 36	13 44 0	30 2	22 11 0 31 22 11 0 31	6 34 6 36	6 4 6 5	18 20	10 20	0 35 0 35
M14 T 15 W16	21 41 21 32 21 22	18 8 4	49 19 25 12 18 52 19 18 18	1 30		39 2 42 12 2 56 15 3 10	0 2 0 1 0s 0	23 17 23 17 23 17	0 8 0 8 0 7	21 14	0 12 0 12 0 12	8 46 8 46 8 47	0 36 0 36 0 36	13 45 0	30	22 11 0 31 22 11 0 30 22 11 0 30	_	6 6 6 8 6 9	18 20		0 35 0 35 0 35
T 17 F 18 S 19	21 12 21 2 20 51	13 32 2 9 56 0	12 17 44 59 17 9 n16 16 33	1 20	17 40 5	18 3 25 50 3 39	0 1 0 2	23 16	0 7 0 7 0 7	21 11 21 10	0 12 0 12 0 13	8 47 8 47 8 47	0 36 0 36 0 36	13 46 0 13 46 0	30 2	22 11 0 30 22 11 0 30 22 11 0 30 22 10 0 30	6 46 6 47	6 10 6 11		10 20 10 21	0 35 0 35 0 35
S 20 M21	20 40 20 28	1 41 1	28 15 57	1 1	17 35 5 17 35 5	53 4 8	0 4	23 15	0 7 0 7		0 13 0 13	8 47 8 48	0 36	13 47	30 2	22 10 0 30 22 10 0 30	6 47		18 22	10 21	0 35 0 35
T 22 W23 T 24	20 16 20 4 19 52	9 57 4	28 14 44 12 14 7	0 38	17 35 5 17 35 5 17 35 5	54 4 51	0 6 0 7	23 14	0 7 0 7	21 3	0 13 0 13 0 13	8 48 8 48 8 48	0 36	13 49 0		22 10 0 30	6 46	6 16 6 17	18 23	10 21	0 35 0 35 0 35
F 25 S 26	19 32 19 39 19 26	15 29 5	44 13 30 4 12 53 10 12 16	0 21	17 36 5	52 5 21	0 9	23 13 23 13 23 12	0 7 0 7 0 7	21 0	0 13 0 13 0 13	8 48 8 48 8 48	0 36	13 50 0	30	22 10 0 30 22 10 0 30 22 10 0 30	6 48	6 19 6 20 6 21		10 21	0 35 0 35 0 35
S 27 M28	18 58		3 11 39 42 11 2	0s 6	17 39 5 4 17 41 5	17 6 5	0 12	23 11 23 11	0 6	20 55	0 13 0 13	8 48 8 48	0 36	13 51 0	30	22 10 0 30 22 9 0 30	6 55	6 24	18 25 18 25	10 21	0 35 0 34
T 29 W30 T 31		16 38 3	9 10 26 25 9 49 n31 9n13	0 26	17 44 5 4 17 46 5 4 17n49 5 s	6 34	0 14	23 10 23 10 23n 9	0 6 0 6 0s 6		0 13 0 13 0n14	8 48 8 48 8n48	0 36	13 52 0	0 30 2 0 30 2 0 s30 2	22 9 0 30	7 0	6 26	18 26 18 26 18 s26	10 21	0 34 0 34 0n34

Julian Day Number = 2335214.5, Delta T = 22.81 sec Ecliptic obliquity = $23^{\circ}28'41$, Nutation = - $0^{\circ}00'04$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}17'40$, Lahiri = $19^{\circ}24'40$ Greg. Calendar

AUGUST 1681 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ)∤(并	Р	n	v	Ç	Ŷ,	Day
F 1	20 40 40	9 ⋒ 8'34	25≈30	5 m 59	19917	17 Ω 19	7958	27957	24°R 6	24°R22	14957	12°R 5	13 m) 34	27 ∡ 8	25°R21	F 1
S 2	20 44 37	10° 6'02	8 ∺ 0	7° 7	1°42	17°55	8°10	28° 5	24 Y 6	24≈20	14°59	12°D 4	13°30	27°14	25 Y 21	S 2
S 3	20 48 33	11° 3'31	20°43	8°14	2° 8	18°32	8°23	28°12	24° 6	24°19	15° 0	12 Mp 4	13°27	27°21	25°21	S 3
M 4	20 52 30	12° 1'02	3 Y 38	9°18	2°36	19°8	8°35	28°20	24° 6	24°17	15° 1	12° 5	13°24	27°28	25°20	M 4
T 5	20 56 26	12°58'33	16°48	10°20	3° 6	19°45	8°48	28°28	24° 5	24°16	15° 3	12° 7	13°21	27°34	25°20	T 5
W 6	21 0 23	13°56'07	0 8 15	11°18	3°37	20°21	9° 0	28°35	24° 5	24°14	15° 4	12° 8	13°18	27°41	25°20	W 6
T 7	21 4 20	14°53'42	14° 0	12°14	4°10	20°58	9°12	28°43	24° 5	24°12	15° 6	12°R 9	13°15	27°48	25°19	T 7
F 8	21 8 16	15°51'18	28° 3	13° 8	4°43	21°35	9°24	28°50	24° 4	24°11	15° 7	12° 8	13°11	27°55	25°19	F 8
S 9	21 12 13	16°48'56	12 Ⅱ 23	13°58	5°19	22°12	9°37	28°58	24° 4	24° 9	15° 8	12° 7	13° 8	28° 1	25°18	S 9
S 10	21 16 9	17°46'35	26°58	14°44	5°55	22°50	9°49	29° 5	24° 3	24° 8	15°10	12° 4	13° 5	28° 8	25°17	S 10
M11	21 20 6	18°44'16	119542	15°28	6°32	23°27	10° 1	29°13	24° 3	24° 6	15°11	12° 1	13° 2	28°15	25°17	M11
T 12	21 24 2	19°41'59	26°29	16° 7	7°11	24° 5	10°13	29°20	24° 2	24° 4	15°13	11°58	12°59	28°22	25°16	T 12
W13	21 27 59	20°39'43	$11\Omega12$	16°43	7°51	24°42	10°25	29°28	24° 1	24° 3	15°14	11°55	12°56	28°28	25°15	W13
T 14	21 31 56	21°37'28	25°43	17°15	8°32	25°20	10°36	29°35	24° 1	24° 1	15°15	11°54	12°52	28°35	25°14	T 14
F 15	21 35 52	22°35'15	9 ₯ 56	17°42	9°14	25°58	10°48	29°43	24° 0	23°59	15°16	11°D53	12°49	28°42	25°13	F 15
S 16	21 39 49	23°33'03	23°47	18° 5	9°57	26°36	11° 0	29°50	23°59	23°58	15°18	11°53	12°46	28°48	25°13	S 16
S 17	21 43 45	24°30'52	7 ≙ 15	18°23	10°41	27°14	11°11	29°57	23°58	23°56	15°19	11°54	12°43	28°55	25°11	S 17
M18	21 47 42	25°28'43	20°19	18°37	11°25	27°52	11°23	ON 5	23°57	23°55	15°20	11°56	12°40	29° 2	25°10	M18
T 19	21 51 38	26°26'34	3 m 1	18°44	12°11	28°30	11°34	0°12	23°56	23°53	15°22	11°57	12°36	29° 9	25° 9	T 19
W20	21 55 35	27°24'27	15°25	18°R47	12°58	29° 9	11°46	0°19	23°55	23°51	15°23	11°58	12°33	29°15	25° 8	W20
T 21	21 59 31	28°22'22	27°34	18°43	13°45	29°47	11°57	0°26	23°54	23°50	15°24	11°R58	12°30	29°22	25° 7	T 21
F 22	22 3 28	29°20'17	9 , ₹33	18°34	14°33	0 M .26	12° 8	0°34	23°53	23°48	15°25	11°58	12°27	29°29	25° 6	F 22
S 23	22 7 24	0 m) 18'14	21°27	18°19	15°22	1° 5	12°19	0°41	23°52	23°46	15°26	11°57	12°24	29°35	25° 4	S 23
S 24	22 11 21	1°16'12	3 ට 20	17°57	16°12	1°44	12°30	0°48	23°51	23°45	15°28	11°56	12°21	29°42	25° 3	S 24
M25	22 15 18	2°14'12	15°16	17°30	17° 2	2°23	12°41	0°55	23°50	23°43	15°29	11°55	12°17	29°49	25° 2	M25
T 26	22 19 14	3°12'13	27°18	16°57	17°53	3° 2	12°52	1° 2	23°48	23°41	15°30	11°53	12°14	29°56	25° 0	T 26
W27	22 23 11	4°10'16	9≈30	16°18	18°45	3°41	13° 3	1° 9	23°47	23°40	15°31	11°52	12°11	0중 2	24°59	W27
T 28	22 27 7	5° 8'20	21°53	15°33	19°37	4°20	13°14	1°16	23°46	23°38	15°32	11°52	12° 8	0° 9	24°57	T 28
F 29	22 31 4	6° 6'25	4) (29	14°44	20°30	5° 0	13°24	1°23	23°44	23°37	15°33	11°51	12° 5	0°16	24°55	F 29
S 30	22 35 0	7° 4'33	17°18	13°51	21°24	5°39	13°35	1°29	23°43	23°35	15°34	11°D51	12° 2	0°22	24°54	S 30
S 31	22 38 57	8 Mg 2'42	0 Υ 22	12 m 55	229518	6 M .19	139545	1 Ω 36	23 Y 41	23≈33	15935	11 m /51	11 m 58	0 궁 29	24 Y 52	S 31

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F 1 S 2	18n 0 17 45	11 s38 1n29 8 14 0 22	8n37 0s4 8 2 0 5		7s 3 0s16 7 18 0 17	23n 8 0s 6 23 8 0 6		8n48 0s37 8 48 0 37	13 s54 0 s30 13 54 0 30	22n 9 0s29 22 9 0 29			27 10n21 0n34 27 10 21 0 34
S 3 M 4 T 5	17 29 17 13 16 57	4 25 0s47 0 19 1 55 3n52 2 59	6 54 1 1	7 17 57 5 30 7 18 0 5 27 28 18 4 5 23	7 33 0 18 7 47 0 18 8 2 0 19	23 6 0 6	20 45 0 14	8 48 0 37 8 48 0 37 8 47 0 37	13 55 0 30	22 9 0 29	7 2		27 10 21 0 34 28 10 21 0 34 28 10 21 0 34
W 6 T 7 F 8	16 40 16 24 16 7	7 55 3 54 11 39 4 37 14 48 5 5	5 48 1 3 5 17 1 5 4 46 2	39 18 7 5 19 50 18 10 5 15 1 18 13 5 11	8 17 0 20 8 31 0 21 8 46 0 22	23 5 0 6 23 4 0 5 23 3 0 5	20 42 0 14 20 41 0 14 20 40 0 14	8 47 0 37 8 47 0 37 8 47 0 37	13 56 0 30 13 57 0 30 13 57 0 30	22 8 0 29 22 8 0 29 22 8 0 29	7 1 7 1 7 1	6 35 18 6 36 18 6 37 18	28 10 20 0 34 29 10 20 0 34 29 10 20 0 34
S 9 S 10 M11	15 49 15 32 15 14	18 23 5 3 18 26 4 33	3 49 2 2 3 22 2 3	23 18 19 5 2 34 18 22 4 57	9 1 0 23 9 15 0 24 9 30 0 24	23 2 0 5 23 1 0 5	20 37 0 15 20 35 0 15	8 47 0 37 8 46 0 37	13 59 0 30	22 8 0 29 22 8 0 29	7 3 7 4	6 39 18 6 41 18	29 10 20 0 34 30 10 19 0 34 30 10 19 0 34
T 12 W13 T 14 F 15	14 56 14 38 14 19 14 0	14 52 2 41 11 35 1 28	2 33 2 5	56 18 28 4 47 6 18 30 4 42	10 14 0 27	23 0 0 5 22 59 0 5 22 58 0 5 22 58 0 5	20 32 0 15 20 31 0 15	8 46 0 37 8 46 0 37 8 45 0 37 8 45 0 37	14 0 0 30 14 1 0 30	22 8 0 29 22 8 0 29	7 6 7 7	6 43 18 6 44 18	30 10 19 0 34 31 10 18 0 34 31 10 18 0 34 31 10 18 0 34
S 16 S 17 M18	13 41 13 22	3 28 1n 5 0s48 2 16	1 33 3 2 1 17 3 3	26 18 35 4 32 36 18 37 4 27	10 43 0 28 10 57 0 29	22 57 0 5 22 56 0 5	20 28 0 15 20 26 0 15	8 45 0 37 8 45 0 37	14 2 0 30 14 2 0 30	22 7 0 29 22 7 0 29	7 7 7 6	6 47 18 6 48 18	32 10 17 0 34 32 10 17 0 33
T 19 W20 T 21	13 3 12 43 12 24 12 4		0 53 3 5 0 45 4	54 18 40 4 16 2 18 41 4 11	11 26 0 31 11 41 0 31		20 23 0 15 20 22 0 15	8 44 0 37 8 44 0 37 8 43 0 37 8 43 0 37	14 3 0 30 14 4 0 30	22 7 0 29 22 7 0 28	7 5 7 5	6 50 18 6 52 18	32 10 16 0 33 33 10 16 0 33 33 10 16 0 33 33 10 15 0 33
F 22 S 23	11 43 11 23	16 43 5 16 18 1 5 12	0 37 4 1 0 38 4 2	15 18 43 4 0 20 18 43 3 54	12 9 0 33 12 24 0 34	22 51 0 4 22 50 0 4	20 19 0 16 20 18 0 16	8 43 0 37 8 42 0 37	14 5 0 30 14 6 0 30	22 7 0 28 22 7 0 28	7 5 7 5	6 54 18 6 55 18	33 10 15 0 33 34 10 14 0 33
S 24 M25 T 26 W27	10 42 10 21	17 6 3 42	0 51 4 2 1 3 4 2	27 18 42 3 43 28 18 42 3 37	12 52 0 35 13 6 0 36	22 50 0 4 22 49 0 4 22 48 0 4 22 47 0 4	20 15 0 16 20 13 0 16	8 42 0 37 8 41 0 37 8 41 0 37 8 40 0 37	14 7 0 30 14 7 0 30	22 7 0 28 22 7 0 28	7 6 7 7	6 58 18 6 59 18	34 10 13 0 33 34 10 13 0 33 34 10 12 0 33 35 10 12 0 33
T 28 F 29 S 30	10 0 9 39 9 17 8 56	12 32 1 48 9 15 0 41	1 37 4 2 1 59 4 2	26 18 39 3 26 22 18 37 3 20	13 34 0 37 13 48 0 38	22 47 0 4 22 46 0 3 22 45 0 3 22 44 0 3	20 11 0 16 20 9 0 16	8 40 0 37 8 40 0 37 8 39 0 37 8 39 0 37	14 8 0 30 14 9 0 30	22 6 0 28 22 6 0 28	7 8 7 8	7 1 18 7 3 18	35 10 12 0 33 35 10 11 0 33 35 10 10 0 33 36 10 10 0 33
S 31	8n34						20n 6 0n17	8n38 0s37	14s10 0s30	22n 6 0s28	7n 8		36 10n 9 0n33

Julian Day Number = 2335245.5, Delta T = 22.77 sec

Ecliptic obliquity = 23°28'41, Nutation = -0°00'04, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = $20^{\circ}17'44$, Lahiri = $19^{\circ}24'45$ Greg. Calendar

SEPTEMBER 1681 GC 00:00 UT

T 2 22 46 50 9°59'06 27°10 10m/57 24° 8 7°38 14° 6 1°50 23°73 23°20 15°37 11°52 11°52 0°43 24°748 W 3 22 50 47 10°57'21 10°55'3 24°47 9° 1 26° 1 8°85 14°46 1°56 23°37 23°29 15°38 11°52 11°49 0°49 24°47 7 12° 22 54 43 11°55'38 24°47 9° 1 26° 1 8°85 14°46 2° 3 23°35 23°27 15°39 11°852 11°40 0°56 24°45 F 5 22 58 40 12°53'57 8∏51 8° 7 26°58 9°38 14°36 2° 9 23°33 23°26 15°40 11°52 11°42 1° 3 24°43 S 6 23 2 36 13°52'18 23° 3 7°17 27°55 10°18 14°46 2° 16 23°32 23°24 15°41 11°52 11°39 1° 9 24°41 S 7 23 63 3 14°50'42 750'21 6°33 28°53 10°55 14°56 22°22 23°30 23°23 15°42 11°52 11°36 1° 16 24°39 18°32 14°26 16°47'35 6Ω 2 25°25 0Ω50 12°20 15°15 22°35 23°26 23°20 15°44 11°53 11°33 1°33 1°33 1°33 1°33 1°33 1°34 18°38 18°34 11°35 11°34 10°34	-			_													
T 2 22 d 6 50 9°59'06 27°10 10m57 24° 8 7°38 14° 6 1°50 23°73 23°830 15°37 11°52 11°52 0°43 24°47 7°4 22 54 43 11°553 24°47 9° 1 26° 1 8°58 14°16 1°56 23°37 23°29 15°38 11°52 11°40 0°49 24°47 7°4 22 54 43 11°553 24°47 9° 1 26° 1 8°58 14°46 2° 3 23°35 23°27 15°39 11°852 11°40 0°49 24°47 7° 1 22° 1 23° 3	Day	Sid.t	0	D	ğ	·	ď	4	ħ)f(卉	Р	n	ß	Ç	Ŗ	Day
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T 23	0 s12	15 56 3 8	7 51 1 3:	5 15 22 0 58	19 8 0 53	22 21 0	19 36 0 19	8 22 0 37	14 21 0 30	22 5 0 27	7 9	7 33	18 41	9 49 0 31
W24	0 35	13 32 2 10	7 22 1 4	1 15 8 0 53	19 20 0 54	22 20 0	19 35 0 19	8 21 0 37	14 21 0 30	22 5 0 27	7 8	7 34	18 41	9 48 0 31
T 25	0 59	10 27 1 4	6 51 1 4	6 14 54 0 48	19 31 0 54	22 19 0	19 34 0 19	8 20 0 37	14 22 0 30	22 5 0 27	7 8	7 35	18 41	9 47 0 31
F 26	1 22	6 49 0s 6	6 17 1 49		19 42 0 55	22 18 0 0	19 33 0 20	8 19 0 37	14 22 0 30	22 5 0 27	7 8	7 36	18 41	9 46 0 31
S 27	1 46	2 46 1 17	5 41 1 52	2 14 24 0 38	19 53 0 55	22 18 0 0	19 32 0 20	8 18 0 37	14 22 0 30	22 5 0 26	7 8	7 38	18 42	9 45 0 31
S 28	2 9	1n32 2 26	5 3 1 5	4 14 8 0 33	20 3 0 56	22 17 0 0	19 31 0 20	8 18 0 37	14 23 0 30	22 5 0 26	7 8	7 39	18 42	9 44 0 31
M29	2 32	5 49 3 28	4 23 1 5	5 13 52 0 28	20 14 0 56	22 16 0 0	19 30 0 20	8 17 0 37	14 23 0 30	22 5 0 26	7 10	7 40	18 42	9 43 0 31
T 30	2 s 5 6	9n52 4s18	3n43 1n5	5 13n35 0s23	20 s24 0 s57	22n15 0s 0	19n29 0n20	8n16 0s37	14 s23 0 s30	22n 5 0s26	7n11	7n41	18 s42	9n42 0n31

 $\label{eq:Julian Day Number = 2335276.5, Delta\ T = 22.72\ sec} \\ Ecliptic\ obliquity = 23°28'42, Nutation = -0°00'05, out-of-bounds\ declination\ in\ red\ Ayanamsha:\ Fagan/Bradley = 20°17'48, Lahiri = 19°24'49Greg.\ Calendar \\ \\$

OCTOBER 1681 GC 00:00 UT

0010	DEN I	OI UC													00.0	0 0.
Day	Sid.t	0	D	ğ	φ	♂	4	ħ)મ(并	В	S.	S	Ç	ę,	Day
W 1	0 41 10	8 ≏ 21'41	21820	26 Mp 50	23 Q 53	27 M 35	189612	4 Ω 38	22°R40	22°R52	15958	11°R39	10 m 20	3 ප 57	23°R40	W 1
T 2	0 45 7	9°20'53	5 II 35	28°35	24°59	28°17	18°19	4°43	22 Y 38	22≈51	15°58	11 m 35	10°17	4° 4	23 Y 37	T 2
F 3	0 49 3	10°20'07	19°51	0 <u>ჲ</u> 20	26° 6	29° 0	18°25	4°47	22°35	22°50	15°58	11°33	10°13	4°11	23°34	F 3
S 4	0 53 0	11°19'23	499 6	2° 6	27°13	29°43	18°31	4°52	22°33	22°49	15°59	11°31	10°10	4°17	23°31	S 4
S 5	0 56 56	12°18'42	18°17	3°52	28°19	0 ∡ 125	18°37	4°57	22°30	22°48	15°59	11°D31	10° 7	4°24	23°29	S 5
M 6	1 0 53	13°18'04	$2\Omega 22$	5°38	29°27	1° 8	18°43	5° 1	22°28	22°47	15°59	11°32	10° 4	4°31	23°26	M 6
T 7	1 4 49	14°17'27	16°19	7°23	0 m 34	1°51	18°49	5° 5	22°26	22°46	15°59	11°34	10° 1	4°38	23°23	T 7
W 8	1 8 46	15°16'53	0Mp 8	9° 8	1°41	2°34	18°54	5°10	22°23	22°45	16° 0	11°35	9°58	4°44	23°20	W 8
T 9	1 12 42	16°16'21	13°47	10°53	2°49	3°18	19° 0	5°14	22°21	22°44	16° 0	11°R35	9°54	4°51	23°17	T 9
F 10	1 16 39	17°15'52	27°15	12°38	3°57	4° 1	19° 5	5°18	22°18	22°44	16° 0	11°34	9°51	4°58	23°14	F 10
S 11	1 20 36	18°15'24	10 ≏ 31	14°22	5° 5	4°44	19°10	5°22	22°16	22°43	16° 0	11°31	9°48	5° 4	23°11	S 11
S 12	1 24 32	19°14'58	23°34	16° 5	6°14	5°28	19°15	5°26	22°13	22°42	16° 0	11°27	9°45	5°11	23° 8	S 12
M13	1 28 29	20°14'35	6M23	17°48	7°22	6°11	19°19	5°29	22°11	22°41	16° 0	11°20	9°42	5°18	23° 6	M13
T 14	1 32 25	21°14'14	18°57	19°30	8°31	6°55	19°24	5°33	22° 8	22°41	16° 0	11°13	9°38	5°24	23° 3	T 14
W15	1 36 22	22°13'54	1 / 17	21°11	9°40	7°38	19°28	5°37	22° 6	22°40	16° 0	11° 6	9°35	5°31	23° 0	W15
T 16	1 40 18	23°13'36	13°26	22°52	10°49	8°22	19°33	5°40	22° 4	22°39	16°R 0	10°59	9°32	5°38	22°57	T 16
F 17	1 44 15	24°13'21	25°24	24°33	11°58	9° 6	19°37	5°44	22° 1	22°39	16° 0	10°53	9°29	5°45	22°54	F 17
S 18	1 48 11	25°13'07	7 궁 17	26°13	13° 7	9°50	19°40	5°47	21°59	22°38	16° 0	10°49	9°26	5°51	22°51	S 18
S 19	1 52 8	26°12'54	19° 8	27°52	14°17	10°34	19°44	5°50	21°56	22°38	16° 0	10°47	9°23	5°58	22°48	S 19
M20	1 56 4	27°12'44	1≈ 2	29°31	15°26	11°18	19°47	5°53	21°54	22°37	16° 0	10°D47	9°19	6° 5	22°45	M20
T 21	2 0 1	28°12'35	13° 4	1 m 9	16°36	12° 2	19°51	5°56	21°51	22°37	16° 0	10°48	9°16	6°11	22°42	T 21
W22	2 3 58	29°12'27	25°19	2°46	17°46	12°46	19°54	5°59	21°49	22°36	16° 0	10°49	9°13	6°18	22°39	W22
T 23	2 7 54	0ML12'22	7 ₩52	4°23	18°56	13°30	19°57	6° 2	21°46	22°36	16° 0	10°R50	9°10	6°25	22°37	T 23
F 24	2 11 51	1°12'18	20°48	6° 0	20° 6	14°15	19°59	6° 5	21°44	22°36	16° 0	10°50	9° 7	6°32	22°34	F 24
S 25	2 15 47	2°12'16	4 Υ 7	7°36	21°17	14°59	20° 2	6° 7	21°42	22°35	16° 0	10°47	9° 4	6°38	22°31	S 25
S 26	2 19 44	3°12'15	17°52	9°11	22°27	15°43	20° 4	6°10	21°39	22°35	15°59	10°43	9° 0	6°45	22°28	S 26
M27	2 23 40	4°12'17	1859	10°46	23°38	16°28	20° 6	6°12	21°37	22°35	15°59	10°36	8°57	6°52	22°25	M27
T 28	2 27 37	5°12'20	16°25	12°21	24°49	17°12	20° 8	6°14	21°35	22°35	15°59	10°27	8°54	6°58	22°22	T 28
W29	2 31 33	6°12'25	1 I I 3	13°55	26° 0	17°57	20°10	6°16	21°32	22°34	15°58	10°18	8°51	7° 5	22°20	W29
T 30	2 35 30	7°12'33	15°46	15°29	27°11	18°42	20°12	6°19	21°30	22°34	15°58	10°10	8°48	7°12	22°17	T 30
F 31	2 39 27	8 M .12'42	0ණ25	17 m 2	28 Mg 22	19 х 26	209513	6 Ω 21	21 Y 27	22≈34	159558	10 Mp 2	8 m) 44	7 云 18	22 Υ 14	F 31

Day	0	D	ğ	·	ď	4		ħ	ı) _į	(4		Р		n	ß	Ç	Š	;
	decl	decl lat	decl lat	decl lat	decl lat	decl lat		decl	lat	decl	lat	decl lat		decl	lat	decl	decl	decl	decl	lat
W 1	3 s19	13n24 4s54				22n14 0n	- 1	19n28	0n20	8n15		-		22n 5	0 s 2 6	7n12		18 s42	9n40	0n31
T 2	3 43	16 10 5 11	2 17 1 5				- 1	19 27	0 20	8 14				22 5	0 26	7 14		18 42	9 39	0 31
F 3	4 6	17 56 5 10				22 13 0	- 1	19 26	0 20	8 13		-		22 5	0 26	7 15	7 45		9 38	0 30
S 4	4 29	18 36 4 49	0 49 1 4	8 12 24 0 4	21 4 0 58	22 12 0	0	19 25	0 21	8 12	0 38	14 25 0	30 2	22 5	0 26	7 15	7 46	18 43	9 37	0 30
S 5	4 52	18 5 4 11	0 4 1 4	5 12 5 0n 1		22 11 0	1	19 24	0 21	8 12	0 38	14 25 0	30 2	22 5	0 26	7 15	7 47	18 43	9 36	0 30
M 6	5 16	16 27 3 18	0 s41 1 4	2 11 46 0 5	21 23 0 59	22 11 0	1	19 23	0 21	8 11	0 38	14 25 0	30 2	22 5	0 26	7 15	7 48	18 43	9 35	0 30
T 7	5 39	13 51 2 14				22 10 0	1	19 22	0 21	8 10	0 38	14 26 0	30 2	22 5	0 26	7 14	7 50		9 34	0 30
W 8	6 2		2 12 1 3			22 9 0		19 21	0 21	8 9	0 38			22 5	0 26	7 14			9 33	0 30
T 9	6 25	6 34 0n12			21 50 1 1			19 20	0 21	8 8	0 37			22 5	0 26	7 14	7 52		9 32	0 30
F 10	6 47	2 23 1 24	3 43 1 2		21 59 1 1			19 19	0 21	8 7	0 37			22 5	0 26	7 14		18 44	9 30	0 30
S 11	7 10	1 s51 2 31	4 28 1 1	8 10 4 0 26	22 8 1 1	22 8 0	1	19 18	0 21	8 6	0 37	14 27 0	30 2	22 5	0 26	7 15	7 54	18 44	9 29	0 30
S 12	7 33	5 56 3 28	5 13 1 1	3 9 43 0 30	22 16 1 2	22 7 0	1	19 18	0 22	8 5	0 37	14 27 0	30 2	22 5	0 26	7 17	7 56	18 44	9 28	0 30
M13	7 55	9 40 4 14	5 58 1	7 9 21 0 34	22 24 1 2	22 7 0	2	19 17	0 22	8 4	0 37	14 27 0	30 2	22 6	0 26	7 19	7 57	18 44	9 27	0 30
T 14	8 18	12 54 4 46	6 42 1	1 8 59 0 38				19 16	0 22	8 3	0 37	14 27 0	30 2	22 6	0 26	7 22	7 58		9 26	0 30
W15	8 40	15 29 5 5						19 15	0 22	8 2	0 37			22 6	0 26	7 25	7 59		9 25	0 29
T 16	9 2	17 20 5 9	8 10 0 4					19 14	0 22	8 2	0 37			22 6	0 26	7 28	8 0	10	9 23	0 29
F 17	9 24	18 25 4 59	8 53 0 4			-		19 14	0 22	8 1	0 37			22 6	0 25	7 30	8 2		9 22	0 29
S 18	9 46	18 40 4 37	9 35 0 3	6 7 27 0 53	23 1 1 4	22 4 0	2	19 13	0 22	8 0	0 37	14 28 0	30 2	22 6	0 25	7 31	8 3	18 45	9 21	0 29
S 19	10 8	18 6 4 3	10 17 0 2	9 7 4 0 56	23 8 1 4	22 4 0	2	19 12	0 22	7 59	0 37	14 28 0	30 2	22 6	0 25	7 32	8 4	18 45	9 20	0 29
M20	10 30	16 44 3 18	10 58 0 2	2 6 40 0 59	23 14 1 5		2	19 12	0 23	7 58	0 37	14 28 0	30 2	22 6	0 25	7 32	8 5	18 45	9 19	0 29
T 21	10 51	14 37 2 24	11 39 0 1		-			19 11	0 23	7 57	0 37	-		22 6	0 25	7 32	8 6		9 18	0 29
W22	11 13	-		9 5 51 1 6				19 11	0 23	7 56	0 37			22 6	0 25	7 31	8 8		9 16	0 29
T 23	11 34			2 5 26 1 9				19 10	0 23	7 55	0 37	-		22 6	0 25	7 31	8 9	18 45	9 15	0 29
F 24	11 55			5 5 2 1 12				19 9	0 23	7 54		-		22 6	0 25	7 31	8 10		9 14	0 29
S 25	12 16	0 13 2 2	14 15 0 1	1 4 36 1 15	23 44 1 6	22 2 0	3	19 9	0 23	7 53	0 37	14 29 0	30 2	22 6	0 25	7 32	8 11	18 45	9 13	0 29
S 26	12 36	4n10 3 5	14 52 0 1	8 4 11 1 17	23 49 1 7	22 2 0	3	19 8	0 23	7 53	0 37	14 29 0	30 2	22 6	0 25	7 34	8 12	18 45	9 12	0 28
M27	12 57	8 27 3 59				22 2 0	-	19 8	0 24	7 52	0 37	-		22 6	0 25	7 36	-	18 45	9 11	0 28
T 28	13 17	12 19 4 39	16 4 0 3			-		19 8	0 24	7 51	0 37	-		22 6	0 25	7 40	8 15		9 10	0 28
	13 37		16 39 0 3					19 7	0 24	7 50			30 2		0 25	7 43	8 16		9 8	0 28
	13 56							19 7	0 24	7 49				22 7	0 25	7 46		18 46	9 7	0 28
F 31	14s16	18n43 4s46	17s46 0s5	1 2n 2 1n30	24s11 1s 8	22n 1 0n	4	19n 6	0n24	7n48	0s37	14 s29 0	s30 2	22n 7	0s25	7n49	8n18	18 s46	9n 6	0n28

Julian Day Number = 2335306.5, Delta T = 22.67 sec Ecliptic obliquity = $23^{\circ}28'42$, Nutation = - $0^{\circ}00'07$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}17'52$, Lahiri = $19^{\circ}24'53$ Greg. Calendar

NOVEMBER 1681 GC 00:00 UT

HOTE	DEN 1	LUCI UC													00.0	0 0.
Day	Sid.t	0	D	ğ	φ	♂	4	ħ)મ(卉	В	n	ນ	Ç	ķ	Day
S 1	2 43 23	9 m 12'53	14955	18 M .35	29 m 33	20 × 11	209514	6 Ω 22	21°R25	22°R34	15°R57	9°R58	8 m /41	7 ප 25	22°R11	S 1
S 2	2 47 20	10°13'07	29°11	20° 8	0 <u>ჲ</u> 44	20°56	20°15	6°24	21 Y 23	22≈34	15957	9 m 55	8°38	7°32	22 Y 8	S 2
M 3	2 51 16	11°13'23	13 Ω 13	21°40	1°56	21°41	20°16	6°26	21°21	22°D34	15°57	9°D55	8°35	7°39	22° 6	M 3
T 4	2 55 13	12°13'40	26°58	23°12	3° 8	22°26	20°16	6°27	21°18	22°34	15°56	9°55	8°32	7°45	22° 3	T 4
W 5	2 59 9	13°14'00	10 m 29	24°43	4°19	23°11	20°17	6°29	21°16	22°34	15°56	9°R56	8°29	7°52	22° 0	W 5
T 6	3 3 6	14°14'21	23°46	26°14	5°31	23°56	20°R17	6°30	21°14	22°34	15°55	9°55	8°25	7°59	21°58	T 6
F 7	3 7 2	15°14'45	6 ≏ 51	27°45	6°43	24°42	20°17	6°31	21°12	22°34	15°55	9°52	8°22	8° 5	21°55	F 7
S 8	3 10 59	16°15'10	19°45	29°16	7°55	25°27	20°17	6°32	21°10	22°34	15°54	9°46	8°19	8°12	21°53	S 8
S 9	3 14 56	17°15'37	2 M 28	0 ₮ 46	9° 7	26°12	20°16	6°33	21° 7	22°34	15°54	9°37	8°16	8°19	21°50	S 9
M10	3 18 52	18°16'06	15° 0	2°16	10°20	26°58	20°16	6°34	21° 5	22°35	15°53	9°25	8°13	8°26	21°47	M10
T 11	3 22 49	19°16'37	27°23	3°45	11°32	27°43	20°15	6°35	21° 3	22°35	15°52	9°12	8°10	8°32	21°45	T 11
W12	3 26 45	20°17'09	9 .₹ 35	5°14	12°44	28°29	20°14	6°36	21° 1	22°35	15°52	8°59	8° 6	8°39	21°42	W12
T 13	3 30 42	21°17'43	21°38	6°43	13°57	29°14	20°13	6°36	20°59	22°36	15°51	8°46	8° 3	8°46	21°40	T 13
F 14	3 34 38	22°18'18	3 ⋜ 33	8°11	15°10	29°59	20°11	6°36	20°57	22°36	15°51	8°35	8° 0	8°52	21°38	F 14
S 15	3 38 35	23°18'54	15°24	9°39	16°22	0 궁 45	20°10	6°37	20°55	22°36	15°50	8°26	7°57	8°59	21°35	S 15
S 16	3 42 31	24°19'32	27°12	11° 6	17°35	1°31	20° 8	6°37	20°53	22°37	15°49	8°20	7°54	9° 6	21°33	S 16
M17	3 46 28	25°20'11	9≈ 3	12°32	18°48	2°17	20° 6	6°R37	20°51	22°37	15°48	8°17	7°50	9°12	21°31	M17
T 18	3 50 25	26°20'51	21° 2	13°58	20° 1	3° 3	20° 4	6°37	20°49	22°38	15°48	8°16	7°47	9°19	21°28	T 18
W19	3 54 21	27°21'32	3 ∺ 13	15°23	21°14	3°49	20° 1	6°37	20°48	22°38	15°47	8°16	7°44	9°26	21°26	W19
T 20	3 58 18	28°22'14	15°42	16°48	22°27	4°35	19°59	6°37	20°46	22°39	15°46	8°16	7°41	9°33	21°24	T 20
F 21	4 2 14	29°22'57	28°35	18°11	23°40	5°21	19°56	6°36	20°44	22°39	15°45	8°14	7°38	9°39	21°22	F 21
S 22	4 6 11	0 ∡ 23'42	11 Y 54	19°34	24°53	6° 7	19°53	6°36	20°42	22°40	15°44	8°11	7°35	9°46	21°20	S 22
S 23	4 10 7	1°24'27	25°43	20°55	26° 6	6°53	19°50	6°35	20°41	22°41	15°44	8° 4	7°31	9°53	21°18	S 23
M24	4 14 4	2°25'13	108 1	22°14	27°20	7°39	19°46	6°34	20°39	22°41	15°43	7°55	7°28	9°59	21°16	M24
T 25	4 18 0	3°26'01	24°44	23°33	28°33	8°25	19°43	6°34	20°37	22°42	15°42	7°44	7°25	10° 6	21°14	T 25
W26	4 21 57	4°26'50	9 Ⅱ 43	24°49	29°46	9°11	19°39	6°33	20°36	22°43	15°41	7°32	7°22	10°13	21°12	W26
T 27	4 25 54	5°27'40	24°51	26° 3	1 M 0	9°57	19°35	6°32	20°34	22°44	15°40	7°21	7°19	10°19	21°10	T 27
F 28	4 29 50	6°28'31	9956	27°15	2°14	10°44	19°31	6°30	20°33	22°44	15°39	7°11	7°15	10°26	21° 8	F 28
S 29	4 33 47	7°29'24	24°48	28°24	3°27	11°30	19°27	6°29	20°31	22°45	15°38	7° 4	7°12	10°33	21° 6	S 29
S 30	4 37 43	8 ₮ 30'18	9 Ω 22	29 × 30	4 M .41	12 궁 16	199522	6 Ω 28	20 Y 30	22≈46	15937	7Mp 0	7 m) 9	10 궁 40	21 ° 4	S 30

Day	0	D	ğ	1	Q	♂	2	4	Ť	i);	f(并		2	ß	U	Ç	ķ	
	decl	decl lat	decl	lat dec	l lat de	el lat	decl	lat	decl	lat	decl	lat	decl lat	decl	lat	decl	decl	decl	decl lat	
S 1	14 s35	18n30 4s	s10 18s18	0s57 1n3:	5 1n32 24s	1s 8	3 22n 1	0n 4	19n 6	0n24	7n47	0s37	14s29 0s	30 22n 7	0s25	7n51	8n20	18 s46	9n 5 0n	n28
S 2	14 54	17 6 3	20 18 49	1 3 1 9	9 1 34 24	8 1 8	3 22 1	0 4	19 6	0 24	7 47	0 37	14 29 0	30 22 7	0 25	7 52	8 21	18 46	9 4 0	28
M 3	15 13	14 41 2	18 19 20	1 10 0 42	2 1 36 24	22 1 9	22 1	0 4	19 6	0 25	7 46	0 37	14 29 0	30 22 7	0 25	7 52	8 22	18 46	9 3 0	28
T 4	15 32	11 28 1	9 19 49	1 16 0 1:	5 1 38 24	25 1 9	22 1	0 4	19 5	0 25	7 45	0 37	14 29 0	30 22 7	0 25	7 52	8 23	18 46	9 2 0	28
W 5	15 50	7 42 0n	n 3 20 18	1 21 0s1	2 1 40 24	27 1 9	22 1	0 5	19 5	0 25	7 44	0 37	14 29 0	30 22	0 24	7 52	8 24	18 46	9 1 0	28
T 6	16 8	3 36 1	13 20 45	1 27 0 39	9 1 42 24	30 1 9	22 1	0 5	19 5	0 25	7 43	0 37	14 29 0	30 22 7	0 24	7 52	8 25	18 46	9 0 0	27
F 7	16 26	0 s 3 7 2	18 21 12	1 33 1	5 1 43 24	32 1 10	22 1	0 5	19 5	0 25	7 42	0 37	14 29 0	30 22 7	0 24	7 53	8 27	18 46	8 59 0	27
S 8	16 44	4 44 3	15 21 37	1 38 1 33	3 1 45 24	1 10	22 2	0 5	19 5	0 25	7 42	0 37	14 29 0	30 22 8	0 24	7 55	8 28	18 46	8 57 0	27
S 9	17 1	8 34 4	1 22 2	1 43 2	0 1 46 24	35 1 10	22 2	0 5	19 5	0 25	7 41	0 37	14 29 0	30 22 8	0 24	7 59	8 29	18 46	8 56 0	27
M10	17 18	11 59 4	35 22 25	1 48 2 2	7 1 47 24	37 1 10	22 2	0 5	19 4	0 26	7 40	0 37	14 29 0	30 22 8	0 24	8 3	8 30	18 46	8 55 0	27
T 11	17 34	14 49 4	55 22 47	1 53 2 54	4 1 49 24	88 1 10	22 2	0 5	19 4	0 26	7 39	0 37	14 29 0	30 22 8	0 24	8 8	8 31	18 46	8 54 0	27
W12	17 51	16 58 5	1 23 8	1 58 3 2	1 1 50 24	89 1 10	22 3	0 6	19 4	0 26	7 39	0 37	14 29 0	30 22 8	0 24	8 13	8 33	18 46	8 53 0	27
T 13	18 7	18 20 4	54 23 28	2 2 3 49	9 1 51 24	39 1 1	22 3	0 6	19 4	0 26	7 38	0 37	14 29 0	30 22 8	0 24	8 18	8 34	18 46	8 52 0	27
F 14	18 23	18 52 4	33 23 47	2 6 4 10	5 1 52 24	39 1 1	22 3	0 6	19 4	0 26	7 37	0 37	14 29 0	30 22 8	0 24	8 22	8 35	18 46	8 51 0	27
S 15	18 38	18 35 4	2 24 4	2 10 4 43	3 1 53 24	1 1	22 4	0 6	19 4	0 26	7 36	0 37	14 29 0	30 22 8	0 24	8 25	8 36	18 46	8 50 0	27
S 16	18 53	17 30 3	19 24 20	2 13 5 10	0 1 53 24	1 1	22 4	0 6	19 5	0 26	7 36	0 37	14 28 0	30 22 9	0 24	8 27	8 37	18 46	8 49 0	26
M17	19 8	15 38 2	28 24 35	2 16 5 3	7 1 54 24	1 1	22 5	0 6	19 5	0 27	7 35	0 37	14 28 0	30 22 9	0 24	8 29	8 39	18 46	8 48 0	26
T 18	19 22	13 5 1	30 24 49	2 19 6	4 1 54 <mark>24</mark>	88 1 1	22 5	0 6	19 5	0 27	7 34	0 37	14 28 0	30 22 9	0 24	8 29	8 40	18 46	8 47 0	26
	19 36		27 25 1	2 22 6 3						0 27	7 34		14 28 0	30 22 9	0 24	8 29		18 46		26
T 20	19 50	6 15 0s	s39 25 12	2 24 6 5				0 7		0 27	7 33	0 37	14 28 0	30 22 9	0 24	8 29		18 46		26
F 21	20 3	2 11 1	45 25 22	2 25 7 2:	5 1 56 24	34 1 12	2 22 7	0 7	19 5	0 27	7 32	0 37	14 28 0	30 22 9	0 24	8 30	8 43	18 46	8 45 0	26
S 22	20 16	2n 8 2	48 25 30	2 26 7 5	1 1 56 24	1 12	2 22 7	0 7	19 6	0 27	7 32	0 37	14 27 0	30 22 10	0 24	8 31	8 44	18 46	8 44 0	26
S 23	20 29	6 30 3	43 25 36	2 27 8 13	3 1 56 24	80 1 12	2 22 8	0 7	19 6	0 27	7 31	0 37	14 27 0	30 22 10	0 23	8 33	8 46	18 46	8 43 0	26
M24	20 41	10 38 4	26 25 42	2 27 8 4	4 1 56 24	27 1 12	2 22 8	0 7	19 6	0 28	7 31	0 37	14 27 0	30 22 10	0 23	8 37	8 47	18 46	8 42 0	26
T 25	20 53	14 15 4	53 25 45	2 26 9 10	0 1 56 24	24 1 12	2 22 9	0 7	19 7	0 28	7 30	0 37	14 27 0	30 22 10	0 23	8 41	8 48	18 46	8 41 0	26
W26	21 4	17 0 5	0 25 48	2 25 9 30	5 1 56 24	21 1 12	2 22 10	0 8	19 7	0 28	7 29	0 37	14 26 0	30 22 10	0 23	8 45	8 49	18 46	8 40 0	25
T 27	21 15	18 36 4	46 25 49	2 23 10	2 1 55 24	8 1 12	2 22 10	0 8	19 8	0 28	7 29	0 37	14 26 0	30 22 10	0 23	8 50	8 50	18 46	8 40 0	25
F 28	21 26	18 54 4	13 25 48	2 21 10 2	8 1 55 24	1 1 12	2 22 11	0 8	19 8	0 28	7 28	0 37	14 26 0	30 22 10	0 23	8 53	8 52	18 46	8 39 0	25
S 29	21 36	17 52 3	23 25 46	2 18 10 5	3 1 55 24	1 12	2 22 12	0 8	19 8	0 28	7 28	0 37	14 26 0	30 22 11	0 23	8 56	8 53	18 46	8 38 0	25
S 30	21 s46	15n41 2s	s20 25 s42	2s14 11s1	9 1n54 <mark>24</mark> s	7 1 s12	22n13	0n 8	19n 9	0n29	7n27	0s37	14 s 25 0 s	30 22n1	0 s23	8n57	8n54	18 s46	8n37 On	n25

Julian Day Number = 2335337.5, Delta T = 22.63 sec Ecliptic obliquity = $23^{\circ}28'42$, Nutation = - $0^{\circ}00'08$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}17'57$, Lahiri = $19^{\circ}24'57$ Greg. Calendar

DECEMBER 1681 GC 00:00 UT

DLCL	HIDEN 3	LUCI UC													00.0	0 0.
Day	Sid.t	0	D	ğ	·	ď	4	ħ)∤(卉	Р	v	Ω	Ç	Ŷ,	Day
M 1	4 41 40	9 ∡ 31'13	23€33	0중32	5 M .55	13중 3	19°R17	6°R26	20°R29	22≈47	15°R36	6°R58	7 m) 6	10 궁 46	21°R 3	M 1
T 2	4 45 36	10°32'10	7 m 21	1°30	7° 8	13°49	199513	$6\Omega 25$	20 Y 27	22°48	15935	6 m 58	7° 3	10°53	21 ° 1	T 2
W 3	4 49 33	11°33'07	20°47	2°23	8°22	14°36	19°8	6°23	20°26	22°49	15°34	6°58	7° 0	11° 0	20°59	W 3
T 4	4 53 29	12°34'06	3 ≏ 54	3°10	9°36	15°22	19° 3	6°21	20°25	22°50	15°33	6°56	6°56	11° 6	20°58	T 4
F 5	4 57 26	13°35'06	16°45	3°51	10°50	16° 9	18°57	6°19	20°23	22°51	15°32	6°53	6°53	11°13	20°56	F 5
S 6	5 1 23	14°36'08	29°22	4°25	12° 4	16°56	18°52	6°17	20°22	22°52	15°31	6°46	6°50	11°20	20°55	S 6
S 7	5 5 19	15°37'10	11 M 48	4°51	13°18	17°42	18°46	6°15	20°21	22°53	15°30	6°37	6°47	11°26	20°53	S 7
M 8	5 9 16	16°38'13	24° 5	5° 8	14°32	18°29	18°40	6°13	20°20	22°54	15°29	6°24	6°44	11°33	20°52	M 8
T 9	5 13 12	17°39'18	6 ₹ 14	5°R16	15°46	19°16	18°34	6°11	20°19	22°56	15°28	6°10	6°41	11°40	20°51	T 9
W10	5 17 9	18°40'23	1 <u>8</u> °17	5°13	17° 0	20° 2	18°28	6° 8	20°18	22°57	15°27	5°55	6°37	11°47	20°50	W10
T 11	5 21 5	19°41'28	0 궁 14	4°58	18°15	20°49	18°22	6° 6	20°17	22°58	15°26	5°41	6°34	11°53	20°48	T 11
F 12	5 25 2	20°42'35	12° 6	4°33	19°29	21°36	18°16	6° 3	20°16	22°59	15°25	5°29	6°31	12° 0	20°47	F 12
S 13	5 28 58	21°43'42	23°55	3°55	20°43	22°23	18° 9	6° 0	20°16	23° 1	15°23	5°19	6°28	12° 7	20°46	S 13
S 14	5 32 55	22°44'49	5≈43	3° 6	21°57	23°10	18° 3	5°57	20°15	23° 2	15°22	5°12	6°25	12°13	20°45	S 14
M15	5 36 52	23°45'57	17°34	2° 7	23°12	23°57	17°56	5°54	20°14	23° 3	15°21	5° 8	6°21	12°20	20°44	M15
T 16	5 40 48	24°47'04	29°31	0°59	24°26	24°44	17°49	5°51	20°13	23° 5	15°20	5° 7	6°18	12°27	20°43	T 16
W17	5 44 45	25°48'13	11) (40	29 × 743	25°40	25°31	17°42	5°48	20°13	23° 6	15°19	5°D 7	6°15	12°33	20°42	W17
T 18	5 48 41	26°49'21	24° 5	28°23	26°55	26°18	17°35	5°45	20°12	23° 7	15°17	5°R 7	6°12	12°40	20°42	T 18
F 19	5 52 38	27°50'29	6 Υ 51	27° 1	28° 9	27° 5	17°28	5°42	20°12	23° 9	15°16	5° 7	6° 9	12°47	20°41	F 19
S 20	5 56 34	28°51'38	20° 3	25°39	29°24	27°52	17°20	5°39	20°11	23°10	15°15	5° 5	6° 6	12°54	20°40	S 20
S 21	6 0 3 1	29°52'46	3 8 45	24°20	0 ₮ 38	28°39	17°13	5°35	20°11	23°12	15°14	5° 0	6° 2	13° 0	20°40	S 21
M22	6 4 27	0 ප් 53'55	17°57	23° 8	1°53	29°26	17° 6	5°32	20°10	23°13	15°13	4°53	5°59	13° 7	20°39	M22
T 23	6 8 24	1°55'03	2 II 38	22° 2	3° 7	0≈13	16°58	5°28	20°10	23°15	15°11	4°44	5°56	13°14	20°39	T 23
W24	6 12 21	2°56'12	17°41	21° 6	4°22	1° 0	16°50	5°24	20°10	23°17	15°10	4°35	5°53	13°20	20°38	W24
T 25	6 16 17	3°57'21	2959	20°20	5°36	1°48	16°43	5°21	20°10	23°18	15° 9	4°25	5°50	13°27	20°38	T 25
F 26	6 20 14	4°58'30	18°18	19°44	6°51	2°35	16°35	5°17	20° 9	23°20	15° 8	4°17	5°47	13°34	20°37	F 26
S 27	6 24 10	5°59'39	3 Ω 29	19°19	8° 5	3°22	16°27	5°13	20° 9	23°22	15° 6	4°11	5°43	13°40	20°37	S 27
S 28	6 28 7	7° 0'48	18°22	19° 3	9°20	4° 9	16°19	5° 9	20° 9	23°23	15° 5	4° 7	5°40	13°47	20°37	S 28
M29	6 32 3	8° 1'58	2 m 50	18°D58	10°35	4°56	16°11	5° 5	20°D 9	23°25	15° 4	4°D 6	5°37	13°54	20°37	M29
T 30	6 36 0	9° 3'07	16°51	19° 2	11°49	5°44	16° 3	5° 1	20° 9	23°27	15° 3	4° 7	5°34	14° 1	20°37	T 30
W31	6 39 57	10궁 4'17	0 ჲ 25	19 × 14	13 ×7 4	6≈31	15955	4Ω 56	20 ℃ 9	23≈28	1599 1	4MD 8	5 m 31	14중 7	20°D37	W31

Day	0	D	3	Į	φ	♂	2	4	ŧ	ı);	β(¥		Р		n	v	ţ	Š	;
	decl	decl lat	decl	lat d	ecl lat	decl lat	decl	lat	decl	lat	decl	lat	decl lat	t	decl la	ıt	decl	decl	decl	decl	lat
M 1 T 2	21 s55 22 4		25 s 37 2 25 31	2s 8 11 2 2 12	844 1n53 8 1 53		2 22n14 2 22 14			0n29 0 29	7n27 7 26	0s37 0 37				0s23 0 23	8n58 8 58	8n55 8 56	18 s46 18 46	8n37 8 36	0n25 0 25
W 3	22 12	4 46 1 12	25 23	1 55 12	33 1 52	23 52 1 1	2 22 15	0 9	19 11	0 29	7 26	0 36	14 24 0	30	22 11	0 23	8 58	8 57	18 46	8 35	0 25
T 4 F 5	22 20 22 28	0 33 2 17 3 s 37 3 14	-				2 22 16 2 22 17	0 9		0 29 0 29	7 25 7 25	0 36 0 36				0 23 0 23	8 59 9 0	8 59 9 0		8 35 8 34	0 25 0 25
S 6	22 35		24 51	1 27 13			2 22 17			0 29	7 25					0 23	9 2	9 1	18 46	8 33	0 24
S 7 M 8 T 9	22 42 22 48 22 54	14 5 4 53	24 39 24 25 24 10	1 2 14	31 1 47	23 24 1 1	2 22 19 2 22 20 2 22 21	0 10	19 13 19 14 19 14	0 30 0 30 0 30	7 24 7 24 7 23	0 36	14 23 (30	22 12	0 23 0 23 0 23	9 6 9 11 9 16	9 2 9 3 9 5	18 46	8 33 8 32 8 31	0 24 0 24 0 24
W10	23 0		23 54				2 22 22		19 15	0 30	7 23					0 22	9 21	9 6		8 31	0 24
T 11 F 12 S 13	23 5 23 9 23 13		23 37 2 23 20 2 23 2 2 23 2		0 1 42	22 56 1 1	2 22 23 2 22 24 2 22 25	0 10		0 30 0 30 0 30	7 23 7 23 7 22	0 36 0 36 0 36	14 21 0	30	22 13	0 22 0 22 0 22	9 26 9 31 9 35	9 7 9 8 9 9	18 46 18 45 18 45	8 30 8 30 8 29	0 24 0 24 0 24
S 14 M15 T 16 W17 T 18 F 19 S 20	23 17 23 20 23 23 23 25 23 26 23 28 23 28	14 8 1 32 11 12 0 30 7 44 0 s 35 3 52 1 39 0 n 1 6 2 4 1	22 6 21 47	1 3 17 1 23 17 1 42 17 2 0 18 2 17 18	2 1 37 22 1 35 42 1 34 1 1 32 19 1 30	22 32 1 1 22 23 1 1 22 15 1 1 22 6 1 1 21 57 1 1	2 22 26 2 22 27 2 22 28 2 22 29 1 22 30 1 22 31 1 22 32	0 11 0 11 0 11 0 11 0 11	19 19 19 20 19 21 19 22	0 31 0 31 0 31 0 31 0 31 0 31 0 31	7 22 7 22 7 22 7 21 7 21 7 21 7 21	0 36 0 36 0 36 0 36 0 36 0 36 0 36	14 20 0 14 19 0 14 19 0 14 18 0 14 18 0	0 30 2 0 30 2 0 30 2 0 30 2 0 30 2	22 14 22 14 22 14 22 14 22 14 22 14	0 22 0 22 0 22 0 22 0 22 0 22 0 22	9 37 9 39 9 39 9 39 9 39 9 39 9 40	9 15 9 16	18 45 18 45	8 29 8 28 8 28 8 28 8 27 8 27 8 26	0 24 0 24 0 23 0 23 0 23 0 23 0 23
S 21 M22 T 23 W24 T 25 F 26 S 27		12 33 4 51 15 45 5 4 18 0 4 56 18 59 4 23 18 36 3 39	20 14 5 20 6 7 20 0	2 53 19 3 1 19 3 6 19 3 8 20 3 9 20	12	21 28 1 1 21 17 1 1 21 7 1 1 20 56 1 1 20 45 1 1	1 22 33 1 22 35 1 22 36 1 22 37 1 22 38 0 22 39 0 22 40	0 12 0 12 0 12 0 12 0 12		0 32 0 32 0 32 0 32 0 32 0 32 0 32	7 21 7 21 7 21 7 20 7 20 7 20 7 20 7 20	0 36 0 36	14 16 0 14 16 0 14 15 0 14 15 0 14 14 0	0 30 2 0 30 2 0 30 2 0 30 2 0 30 2	22 15 22 15 22 15 22 16 22 16	0 22 0 22 0 22 0 22 0 22 0 22 0 22 0 21	9 42 9 44 9 47 9 51 9 54 9 57 10 0		18 45 18 44 18 44	8 26 8 26 8 25 8 25 8 25 8 25 8 25 8 25	0 23 0 23 0 23 0 23 0 22 0 22 0 22
	23 18 23 14 23 10 23 s 6	10 22 0 3 6 15 1n 8	-	3 1 20 2 55 21	56 1 9 9 1 6	20 11 1 1 20 0 1 1	0 22 41 0 22 42 0 22 43 9 22n44	0 13 0 13	19 32 19 33 19 35 19n36	0 33 0 33 0 33 0n33	7 20 7 20 7 20 7n21	0 36	14 12 0 14 12 0	0 30 2	22 16 22 17	0 21 0 21 0 21 0 s21	10 1 10 1	9 28 9 29	18 44 18 44 18 44 18 s44	8 24 8 24 8 24 8n24	0 22 0 22 0 22 0n22

Julian Day Number = 2335367.5, Delta T = 22.58 sec Ecliptic obliquity = $23^{\circ}28'41$, Nutation = - $0^{\circ}00'08$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}18'01$, Lahiri = $19^{\circ}25'01$ Greg. Calendar