

Astrodienst Ephemeris Tables for the year 2089

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 2089 00:00 UT

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Day	Sid.t	0	D	ğ	φ	♂	4	ħ)∤(卉	Р	r	Ω	Ç	ę,	Day
S 1	6 45 35	11중17'24	6 m 41	16°R59	28≈12	21°R59	13 M 29	20°R49	5 米 3	22°R46	21°R28	24°R12	23 ₾ 39	14 정 46	27°R25	S 1
S 2	6 49 31	12°18'32	20°42	15 る 44	29° 8	21251	13°39	20847	5° 6	22 N 45	21 Y 28	24 <u>₽</u> 8	23°36	14°52	27 II 22	S 2
M 3	6 53 28	13°19'41	4 ₽ 14	14°25	0) 4	21°43	13°48	20°45	5°8	22°44	21°28	24° 6	23°33	14°59	27°18	M 3
T 4	6 57 24	14°20'50	17°19	13° 3	0°59	21°33	13°58	20°43	5°10	22°43	21°D28	24° 6	23°30	15° 6	27°14	T 4
W 5	7 1 21	15°21'59	OM 1	11°43	1°53	21°23	14° 7	20°41	5°13	22°42	21°28	24° 6	23°27	15°13	27°11	W 5
T 6	7 5 17	16°23'08	12°25	10°26	2°46	21°11	14°16	20°39	5°15	22°40	21°28	24° 5	23°23	15°19	27° 7	T 6
F 7	7 9 14	17°24'18	24°36	9°14	3°39	20°59	14°25	20°38	5°18	22°39	21°28	24° 2	23°20	15°26	27° 4	F 7
S 8	7 13 10	18°25'28	6 ₹ 38	8°10	4°32	20°46	14°34	20°36	5°21	22°38	21°28	23°56	23°17	15°33	27° 0	S 8
S 9	7 17 7	19°26'38	18°34	7°15	5°23	20°33	14°43	20°35	5°23	22°36	21°28	23°46	23°14	15°40	26°57	S 9
M10	7 21 4	20°27'47	0 궁 26	6°29	6°14	20°18	14°51	20°34	5°26	22°35	21°28	23°34	23°11	15°46	26°53	M10
T 11	7 25 0	21°28'57	12°18	5°53	7° 4	20° 3	15° 0	20°33	5°29	22°34	21°28	23°20	23° 7	15°53	26°50	T 11
W12	7 28 57	22°30'06	24°10	5°27	7°53	19°47	15° 8	20°31	5°31	22°32	21°29	23° 4	23° 4	16° 0	26°47	W12
T 13	7 32 53	23°31'15	6≈ 4	5°11	8°41	19°30	15°16	20°31	5°34	22°31	21°29	22°49	23° 1	16° 6	26°43	T 13
F 14	7 36 50	24°32'24	18° 1	5°D 4	9°28	19°13	15°25	20°30	5°37	22°29	21°29	22°35	22°58	16°13	26°40	F 14
S 15	7 40 46	25°33'32	0₩ 2	5° 6	10°15	18°55	15°33	20°29	5°40	22°28	21°29	22°24	22°55	16°20	26°37	S 15
S 16	7 44 43	26°34'40	12°10	5°16	11° 0	18°36	15°41	20°28	5°42	22°26	21°30	22°15	22°52	16°27	26°34	S 16
M17	7 48 39	27°35'47	24°26	5°33	11°45	18°17	15°48	20°28	5°45	22°25	21°30	22°10	22°48	16°33	26°31	M17
T 18	7 52 36	28°36'53	6 Υ 56	5°57	12°28	17°57	15°56	20°28	5°48	22°24	21°30	22° 8	22°45	16°40	26°28	T 18
W19	7 56 33	29°37'58	19°41	6°28	13°10	17°37	16° 3	20°27	5°51	22°22	21°30	22°D 7	22°42	16°47	26°25	W19
T 20	8 0 29	0≈39'03	2 8 47	7° 4	13°51	17°16	16°11	20°27	5°54	22°20	21°31	22°R 7	22°39	16°53	26°22	T 20
F 21	8 4 26	1°40'06	16°18	7°45	14°31	16°54	16°18	20°D27	5°57	22°19	21°31	22° 6	22°36	17° 0	26°19	F 21
S 22	8 8 22	2°41'09	0 Ⅱ 15	8°30	15° 9	16°32	16°25	20°27	6° 0	22°17	21°32	22° 4	22°33	17° 7	26°16	S 22
S 23	8 12 19	3°42'11	14°40	9°20	15°47	16°10	16°32	20°27	6° 3	22°16	21°32	21°59	22°29	17°14	26°13	S 23
M24	8 16 15	4°43'12	29°30	10°14	16°22	15°47	16°39	20°28	6° 6	22°14	21°32	21°51	22°26	17°20	26°11	M24
T 25	8 20 12	5°44'12	14939	11°11	16°57	15°24	16°45	20°28	6° 9	22°13	21°33	21°41	22°23	17°27	26° 8	T 25
W26	8 24 8	6°45'11	29°57	12°11	17°30	15° 1	16°52	20°29	6°12	22°11	21°33	21°30	22°20	17°34	26° 5	W26
T 27	8 28 5	7°46'09	15 Ω 13	13°14	18° 1	14°38	16°58	20°29	6°15	22° 9	21°34	21°19	22°17	17°41	26° 3	T 27
F 28	8 32 2	8°47'06	0 m /16	14°19	18°31	14°14	17° 4	20°30	6°19	22° 8	21°34	21°10	22°13	17°47	26° 0	F 28
S 29	8 35 58	9°48'03	14°56	15°26	18°59	13°50	17°10	20°31	6°22	22° 6	21°35	21° 3	22°10	17°54	25°58	S 29
S 30	8 39 55	10°48'58	29° 9	16°36	19°26	13°26	17°16	20°32	6°25	22° 5	21°35	20°58	22° 7	18° 1	25°56	S 30
M31	8 43 51	11≈49'53	12 ≏ 51	17 る 48	19 米 50	13 N 2	17 M 22	20 8 33	6 ∺ 28	22 N 3	21 Y 36	20 ♀ 56	22 ♀ 4	18 궁 7	25 Ⅱ 53	M31

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S 1	22 s57	5n36	3 s43	20 s23	1n59	13s 0	0s58	17n42	3n44	14s50	1n 6	15n44	2s18	10 s21	0 s45	14n11	0n17	7s36 17s12	9 s23	9s11	17s33	17n 2	6 s22
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T 4	22 39	7 21		-	2 46				3 51		-	-		10 18			0 17	7 35 17 11	9 21	9 7	17 31		6 21
W 5	22 32								3 53		-			10 17			0 17	7 35 17 10	-	9 6	17 30		6 21
T 6	22 25 22 18	14 3 16 25	1 35 2 34	19 55 19 54		10 53 10 27		18 9 18 15	3 56 3 58			-		10 16 10 15			0 17 0 17	7 35 17 10 7 34 17 10			17 29 17 28	17 2 17 2	6 21
S 8	22 10			19 54				18 21		15 6 15 8		15 43		10 13		14 13	0 17	7 34 17 10		9 4			6 21
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S 9	22 1	18 51		19 56	3 18	9 35				15 10		-		10 13			0 17	7 34 17 9	/ 15	9 1	17 26		6 21
M10	21 52		4 36	19 58	3 18	9 10		18 34			1 7	-		10 12		14 14	0 17	7 33 17 9	' '	9 0	17 26	17 3	6 21
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		16 21		20 8	3 11	8 18				15 18	1 7			10 10		14 15	0 17	7 32 17 8				17 3	6 21
T 13	21 23		4 51	20 14		7 53		18 56			1 8		2 14			-	0 17	7 32 17 8		8 57		17 3	6 20
	21 12 21 1	-	-	20 20 20 28	2 59 2 52	7 27 7 1	0 37			15 22	1 8 1 8		2 14 2 14			-	0 17 0 17	7 32 17 7 7 31 17 7	0 .,		17 22 17 21	17 3 17 3	6 20 6 20
5 15	21 1	7 44	3 38	20 28	2 32	7 1	0 45	19 10	4 15	15 24	1 8	15 43	2 14	10 /	0 44	14 1/	0 1/	7 31 17 7	8 43	8 34	1/ 21	1/ 3	0 20
S 16	20 50	4 0	3 14	20 36	2 44	6 36	0 54	19 18	4 16	15 26	1 8	15 43	2 13	10 6	0 44	14 17	0 17	7 31 17 6	8 40	8 53	17 20	17 3	6 20
M17	20 38	0 3	2 21	20 44	2 35	6 11	1 3	19 26	4 18	15 28	1 8	15 43	2 13	10 5	0 44	14 18	0 17	7 30 17 6	8 38	8 52	17 19	17 3	6 20
T 18	20 26	3n58				5 46	-	19 34		15 31	1 8		2 13	-		-	0 17	7 30 17 6			17 18		6 20
W19	20 13		0 13	-		5 21		19 41	4 21	15 33		15 43	2 12	-		-	0 17	7 29 17 5					6 19
T 20	20 0		0s56		2 6	4 56	-	19 49				-	2 12	-			0 17	7 29 17 5			17 17		6 19
F 21		14 43		21 16		4 32		19 57	4 24				2 12			14 20	0 17	7 28 17 5			17 16		6 19
S 22	19 33	17 9	3 7	21 24	1 46	4 7	1 52	20 5	4 25	15 38	1 9	15 44	2 12	9 59	0 44	14 20	0 17	7 28 17 4	8 35	8 46	17 15	17 4	6 19
S 23	19 19	18 34	4 0	21 31	1 35	3 43	2 3	20 13	4 27	15 40	1 9	15 45	2 11	9 58	0 44	14 21	0 17	7 27 17 4	8 34	8 45	17 14	17 4	6 18
M24	19 4	18 47	4 39	21 37	1 25	3 20	2 13	20 21	4 28	15 42	1 9	15 45	2 11	9 57	0 44	14 21	0 17	7 27 17 4	8 31	8 44	17 13	17 4	6 18
T 25	18 50	17 40	4 59	21 42	1 15	2 56	2 24	20 29		15 44	1 9	15 45	2 11	9 56	0 44	14 22	0 17	7 26 17 3	8 27	8 42	17 12	17 4	6 18
W26		15 18	4 58	21 47	1 5	2 33		20 37	4 30	15 45	1 9	15 46	2 10	9 55	0 44	14 22	0 17	7 26 17 3	8 23	8 41	17 11	17 4	6 18
T 27	18 19			21 51	0 55	2 11		20 45		15 47	1 10		2 10		-	_	0 17	7 25 17 2		8 40			6 17
F 28	18 3			21 54	0 46	1 49		20 52					2 10				0 17	7 25 17 2		8 39			6 17
S 29	17 47	3 11	2 59	21 56	0 36	1 27	3 9	21 0	4 32	15 50	1 10	15 47	2 10	9 51	0 44	14 24	0 17	7 24 17 2	8 12	8 38	17 8	17 5	6 17
S 30	17 31	1 s23	1 53	21 57	0 27	1 6	3 21	21 7	4 32	15 52	1 10	15 48	2 9	9 50	0 44	14 25	0 17	7 24 17 1	8 11	8 37	17 8	17 5	6 17
M31	17 s14	5 s44	0 s43	$21\mathrm{s}57$	0n18	0 s45	3n33	21n15	4n32	15 s53	1n10	15n48	2s 9	9 s49	0 s44	14n25	0n17	7s23 17s 1	8 s 1 0	8 s35	17s 7	17n 6	6 s 1 6

Julian Day Number = 2484052.5, Delta T = 88.33 sec Ecliptic obliquity = 23°25'31, Nutation = 0°00'08, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 25°59'02, Lahiri = 25°06'02

FEBRUARY 2089 00:00 UT

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T 1	8 47 48	12≈50'48	26 ♀ 4	19ට 1	20) 13	12°R38	17 M 28	20834	6 ∺ 31	22°R 1	21 Y 37	20°D56	22 ♀ 1	18 궁 14	25°R51	T 1
W 2	8 51 44	13°51'41	8ML52	20°16	20°34	12Ω14	17°33	20°35	6°35	22 N 0	21°37	20°R57	21°58	18°21	25 Ⅱ 49	W 2
T 3	8 55 41	14°52'34	21°18	21°33	20°53	11°50	17°38	20°37	6°38	21°58	21°38	20 ≏ 57	21°54	18°28	25°47	T 3
F 4	8 59 37	15°53'26	3 . ₹29	22°51	21°10	11°26	17°43	20°38	6°41	21°56	21°39	20°55	21°51	18°34	25°45	F 4
S 5	9 3 34	16°54'17	15°29	24°10	21°25	11° 3	17°48	20°40	6°44	21°55	21°39	20°51	21°48	18°41	25°43	S 5
S 6	9 7 31	17°55'08	27°22	25°31	21°38	10°39	17°53	20°42	6°48	21°53	21°40	20°44	21°45	18°48	25°41	S 6
M 7	9 11 27	18°55'57	9 ට 12	26°53	21°49	10°16	17°58	20°44	6°51	21°51	21°41	20°35	21°42	18°54	25°39	M 7
T 8	9 15 24	19°56'45	21° 3	28°16	21°57	9°53	18° 2	20°46	6°54	21°49	21°41	20°24	21°38	19° 1	25°38	T 8
W 9	9 19 20	20°57'33	2 ≈ 57	29°40	22° 3	9°31	18° 6	20°48	6°58	21°48	21°42	20°12	21°35	19° 8	25°36	W 9
T 10	9 23 17	21°58'19	14°56	1≈ 5	22° 7	9° 9	18°11	20°50	7° 1	21°46	21°43	20° 0	21°32	19°15	25°34	T 10
F 11	9 27 13	22°59'03	27° 1	2°31	22°R 8	8°47	18°14	20°52	7° 4	21°44	21°44	19°49	21°29	19°21	25°33	F 11
S 12	9 31 10	23°59'47	9 米 13	3°58	22° 7	8°26	18°18	20°55	7° 8	21°43	21°45	19°40	21°26	19°28	25°32	S 12
S 13	9 35 6	25° 0'29	21°32	5°26	22° 3	8° 5	18°22	20°57	7°11	21°41	21°45	19°34	21°23	19°35	25°30	S 13
M14	9 39 3	26° 1'09	4 Υ 2	6°55	21°57	7°45	18°25	21° 0	7°15	21°39	21°46	19°30	21°19	19°42	25°29	M14
T 15	9 43 0	27° 1'48	16°42	8°25	21°48	7°25	18°28	21° 3	7°18	21°38	21°47	19°D29	21°16	19°48	25°28	T 15
W16	9 46 56	28° 2'25	29°35	9°56	21°37	7° 6	18°31	21° 5	7°21	21°36	21°48	19°29	21°13	19°55	25°27	W16
T 17	9 50 53	29° 3'01	12845	11°28	21°23	6°48	18°34	21° 8	7°25	21°34	21°49	19°30	21°10	20° 2	25°26	T 17
F 18	9 54 49	0 米 3'34	26°13	13° 1	21° 7	6°30	18°37	21°11	7°28	21°33	21°50	19°R31	21° 7	20° 8	25°25	F 18
S 19	9 58 46	1° 4'06	10耳 2	14°34	20°48	6°13	18°39	21°14	7°32	21°31	21°51	19°31	21° 4	20°15	25°24	S 19
S 20	10 2 42	2° 4'37	24°12	16° 9	20°27	5°57	18°42	21°18	7°35	21°29	21°52	19°28	21° 0	20°22	25°23	S 20
M21	10 6 39	3° 5'05	8 9 341	17°44	20° 4	5°41	18°44	21°21	7°39	21°28	21°53	19°24	20°57	20°29	25°23	M21
T 22	10 10 35	4° 5'31	23°28	19°21	19°38	5°26	18°46	21°24	7°42	21°26	21°54	19°18	20°54	20°35	25°22	T 22
W23	10 14 32	5° 5'56	8 Ω 24	20°58	19°10	5°12	18°48	21°28	7°45	21°24	21°55	19°12	20°51	20°42	25°21	W23
T 24	10 18 29	6° 6'19	23°22	22°36	18°41	4°59	18°49	21°32	7°49	21°23	21°56	19° 5	20°48	20°49	25°21	T 24
F 25	10 22 25	7° 6'40	8 m 12	24°16	18° 9	4°46	18°51	21°35	7°52	21°21	21°57	18°59	20°44	20°56	25°21	F 25
S 26	10 26 22	8° 6'59	22°46	25°56	17°36	4°34	18°52	21°39	7°56	21°20	21°58	18°54	20°41	21° 2	25°20	S 26
S 27	10 30 18	9° 7'17	6 ₽ 58	27°37	17° 2	4°23	18°53	21°43	7°59	21°18	21°59	18°52	20°38	2 <u>1</u> ° 9	25°20	S 27
M28	10 34 15	10 米 7'33	20 ≏ 44	29≈19	16 米 27	4 Ω 13	18 M 54	21847	8 ∺ 3	21 \O 16	22 ° 0	18°D51	20 ♀ 35	21 궁 16	25 Ⅱ 20	M28

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T 1	16 s57	9 s38	0n27	21 s56	0n 9	0 s 2 5	3n45	21n22	4n33	15 s54	1n10	15n49	2s 9	9 s48	0 s44	14n26	0n17	7s23 17s	1 8s10	8 s 3 4	17s 6	17n 6 6s16
W 2	16 39	12 58	1 34	21 54	0s 0	0 6	3 57	21 29	4 33	15 56	1 11	15 49	2 8	9 47	0 44	14 26	0 17	7 22 17	0 8 10	8 33	17 5	17 6 6 16
T 3	16 22	15 36	2 34	21 51	0 9	0n13	4 10	21 36	4 33	15 57	1 11	15 50	2 8	9 45	0 44	14 27	0 17	7 22 17	0 8 10	8 32	17 4	17 6 6 15
F 4	16 4	17 28	3 26	21 46	0 17	0 31	4 22	21 42	4 33	15 58	1 11	15 51	2 8	9 44	0 44	14 27	0 17	7 21 17	0 8 10	8 31	17 3	17 7 6 15
S 5	15 46	18 31	4 8	21 41	0 25	0 49	4 35	21 49	4 33	16 0	1 11	15 52	2 8	9 43	0 44	14 28	0 17	7 21 16	59 8 8	8 29	17 2	17 7 6 15
S 6	15 27	18 45	4 39	21 34	0 33	1 6	4 48	21 55	4 32	16 1	1 11	15 52	2 7	9 42	0 44	14 28	0 17	7 20 16	59 8 5	8 28	17 1	17 7 6 14
M 7	15 8	18 10	4 57	21 26	0 40	1 22	5 1	22 1	4 32	16 2	1 11	15 53	2 7	9 40	0 44	14 29	0 17	7 20 16	59 8 2	8 27	17 0	17 7 6 14
T 8	14 49	16 47	5 3	21 17	0 48	1 37	5 14	22 7	4 31	16 3	1 12	15 54	2 7	9 39	0 44	14 30	0 17	7 19 16	58 7 58	8 26	16 59	17 8 6 14
W 9	14 30	14 41	4 56	21 6	0 55	1 51	5 26	22 12	4 31	16 4	1 12	15 55	2 6	9 38	0 44	14 30	0 17	7 18 16	58 7 53	8 25	16 58	17 8 6 13
T 10	14 11	11 57	4 36	20 54	1 2	2 4	5 39	22 18	4 30	16 5	1 12	15 55	2 6	9 37	0 44	14 31	0 17	7 18 16	58 7 49	8 23	16 57	17 8 6 13
F 11	13 51	8 42	4 3	20 41	1 8	2 17	5 52	22 23	4 29	16 6	1 12	15 56	2 6	9 35	0 44	14 31	0 17	7 17 16	58 7 45	8 22	16 56	17 9 6 13
S 12	13 31	5 3	3 18	20 27	1 14	2 28	6 5	22 28	4 28	16 7	1 12	15 57	2 6	9 34	0 44	14 32	0 17	7 17 16	57 7 41	8 21	16 55	17 9 6 12
S 13	13 11	1 9	2 24	20 12	1 20	2 38	6 18	22 32	4 27	16 7	1 12	15 58	2 5	9 33	0 44	14 32	0 17	7 16 16	57 7 39	8 20	16 54	17 9 6 12
M14	12 50	2n51	1 22	19 55	1 26	2 47	6 30	22 36	4 26	16 8	1 13	15 59	2 5	9 32	0 44	14 33	0 17	7 15 16	57 7 38	8 19	16 53	17 9 6 12
T 15	12 30	6 47	0 15	19 37	1 31	2 55	6 43	22 40	4 25	16 9	1 13	16 0	2 5	9 30	0 44	14 33	0 17	7 15 16	56 7 37	8 18	16 52	17 10 6 11
W16	12 9	10 29	0s54	19 17	1 36	3 2	6 55	22 44	4 24	16 10	1 13	16 1	2 4	9 29	0 44	14 34	0 17	7 14 16	56 7 37	8 16	16 51	17 10 6 11
T 17	11 48	13 43	2 2	18 57	1 41	3 7	7 6	22 47	4 22	16 10	1 13	16 2	2 4	9 28	0 44	14 35	0 17	7 14 16	56 7 38	8 15	16 51	17 11 6 10
F 18	11 27	16 18	3 5	18 35	1 45	3 11	7 18	22 51	4 21	16 11	1 13	16 3	2 4	9 27	0 44	14 35	0 17	7 13 16	55 7 38	8 14	16 50	17 11 6 10
S 19	11 5	18 1	3 58	18 11	1 49	3 14	7 29	22 54	4 19	16 11	1 13	16 4	2 4	9 25	0 44	14 36	0 17	7 13 16	55 7 38	8 13	16 49	17 11 6 10
S 20	10 44	18 39	4 39	17 47	1 53	3 16	7 39	22 56	4 18	16 12	1 14	16 5	2 3	9 24	0 44	14 36	0 17	7 12 16	55 7 37	8 12	16 48	17 12 6 9
M21	10 22	18 6	5 3	17 21	1 56	3 16	7 49	22 59	4 16	16 12	1 14	16 7	2 3	9 23	0 44	14 37	0 17	7 11 16	55 7 35	8 10	16 47	17 12 6 9
T 22	10 0	16 20	5 7	16 54	1 59	3 15	7 59	23 1	4 15	16 13	1 14	16 8	2 3	9 21	0 44	14 37	0 17	7 11 16	54 7 33	8 9	16 46	17 12 6 9
W23	9 38	13 28	4 51	16 25	2 2	3 12	8 8	23 2	4 13	16 13	1 14	16 9	2 2	9 20	0 44	14 38	0 17	7 10 16	54 7 31	8 8	16 45	17 13 6 8
T 24	9 16	9 42	4 15	15 55	2 4	3 8	8 16	23 4	4 11	16 13	1 14	16 10	2 2	9 19	0 44	14 38	0 17	7 9 16	54 7 28	8 7	16 44	17 13 6 8
F 25	8 54	5 22	3 22	15 24	2 6	3 3	8 23	23 5	4 9	16 13	1 15	16 11	2 2	9 18	0 44	14 39	0 17	7 9 16	54 7 26	8 6	16 43	17 13 6 7
S 26	8 31	0 47	2 17	14 52	2 7	2 56	8 30	23 6	4 7	16 13	1 15	16 12	2 2	9 16	0 44	14 39	0 17	7 8 16	53 7 24	8 4	16 42	17 14 6 7
S 27	8 9	3 s45	1 4	14 18	2 8	2 48	8 36	23 7	4 5	16 14	1 15	16 14	2 1	9 15	0 44	14 40	0 17	7 8 16	53 7 23	8 3	16 41	17 14 6 7
M28	7 s46	7 s 5 6	0n10	13 s43	2s 9	2n39	8n41	23n 8	4n 3	16s14	1n15	16n15	2 s 1	9 s 1 4	0 s44	14n40	0n17	7s 7 16s	53 7 s23	8s 2	16 s40	17n15 6s 6

Julian Day Number = 2484083.5, Delta T = 88.37 sec Ecliptic obliquity = $23^{\circ}25'31$, Nutation = $0^{\circ}00'08$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $25^{\circ}59'06$, Lahiri = $25^{\circ}06'06$

MARCH 2089 00:00 UT

Day	Sid.t	0	D	ğ	Q	ð	4	ħ)∤(¥	Р	ß	Ω	Ç	o k	Day
T 1	10 38 11	11) 7'48	4M 4	1) 2	15°R50	4°R 3	18 M .54	21851	8) 6	21°R15	22 ° 1	18 ≏ 52	20 <u>₽</u> 32	21る22	25°D20	T 1
W 2	10 42 8	12° 8'01	16°59	2°47	15 米 13	3 Ω 54	18°55	21°55	8°10	21 Ω 13	22° 2	18°54	20°29	21°29	25耳20	W 2
T 3	10 46 4	13° 8'13	29°31	4°32	14°36	3°46	18°55	22° 0	8°13	21°12	22° 4	18°55	20°25	21°36	25°20	T 3
F 4	10 50 1	14° 8'23	11 ×7 47	6°18	13°58	3°39	18°R55	22° 4	8°16	21°10	22° 5	18°R56	20°22	21°43	25°20	F 4
S 5	10 53 58	15° 8'32	23°49	8° 6	13°20	3°33	18°55	22° 8	8°20	21° 9	22° 6	18°56	20°19	21°49	25°21	S 5
S 6	10 57 54	16° 8'39	5 ₹ 44	9°54	12°43	3°27	18°55	22°13	8°23	21° 7	22° 7	18°54	20°16	21°56	25°21	S 6
M 7	11 151	17° 8'44	17°35	11°44	12° 7	3°22	18°54	22°17	8°27	21° 6	22° 8	18°50	20°13	22° 3	25°21	M 7
T 8	11 5 47	18° 8'48	29°27	13°34	11°31	3°18	18°54	22°22	8°30	21° 4	22° 9	18°46	20°10	22° 9	25°22	T 8
W 9	11 9 44	19° 8'50	11≈24	15°26	10°56	3°15	18°53	22°27	8°34	21° 3	22°11	18°41	20° 6	22°16	25°23	W 9
T 10	11 13 40	20° 8'51	23°28	17°19	10°23	3°12	18°52	22°32	8°37	21° 1	22°12	18°35	20° 3	22°23	25°23	T 10
F 11	11 17 37	21° 8'50	5) (42	19°13	9°51	3°11	18°50	22°37	8°40	21° 0	22°13	18°30	20° 0	22°30	25°24	F 11
S 12	11 21 33	22° 8'46	18° 6	21° 8	9°21	3°10	18°49	22°42	8°44	20°59	22°14	18°27	19°57	22°36	25°25	S 12
S 13	11 25 30	23° 8'41	0 Υ 42	23° 3	8°52	3°D10	18°47	22°47	8°47	20°57	22°16	18°24	19°54	22°43	25°26	S 13
M14	11 29 26	24° 8'34	13°30	25° 0	8°26	3°10	18°46	22°52	8°50	20°56	22°17	18°D23	19°50	22°50	25°27	M14
T 15	11 33 23	25° 8'25	26°31	26°58	8° 2	3°11	18°44	22°57	8°54	20°54	22°18	18°23	19°47	22°57	25°28	T 15
W16	11 37 20	26° 8'14	9 8 44	28°56	7°39	3°13	18°41	23° 3	8°57	20°53	22°19	18°24	19°44	23° 3	25°29	W16
T 17	11 41 16	27° 8'01	23°10	0 Υ 55	7°20	3°16	18°39	23° 8	9° 0	20°52	22°21	18°26	19°41	23°10	25°31	T 17
F 18	11 45 13	28° 7'45	6 Ⅱ 49	2°54	7° 2	3°19	18°37	23°13	9° 4	20°51	22°22	18°27	19°38	23°17	25°32	F 18
S 19	11 49 9	29° 7'28	20°41	4°54	6°47	3°23	18°34	23°19	9° 7	20°49	22°23	18°28	19°35	23°23	25°33	S 19
S 20	11 53 6	0 Υ 7'08	49546	6°54	6°34	3°28	18°31	23°25	9°10	20°48	22°25	18°R28	19°31	23°30	25°35	S 20
M21	11 57 2	1° 6'46	19° 1	8°54	6°24	3°34	18°28	23°30	9°14	20°47	22°26	18°27	19°28	23°37	25°36	M21
T 22	12 0 59	2° 6'21	3 Ω 26	10°53	6°16	3°40	18°25	23°36	9°17	20°46	22°27	18°26	19°25	23°44	25°38	T 22
W23	12 4 55	3° 5'54	17°55	12°52	6°11	3°46	18°21	23°42	9°20	20°45	22°29	18°24	19°22	23°50	25°40	W23
T 24	12 8 52	4° 5'25	2 Mp 24	14°50	6° 8	3°54	18°18	23°48	9°23	20°43	22°30	18°22	19°19	23°57	25°42	T 24
F 25	12 12 49	5° 4'54	16°47	16°46	6°D 7	4° 2	18°14	23°54	9°27	20°42	22°31	18°20	19°15	24° 4	25°44	F 25
S 26	12 16 45	6° 4'20	0 ₾ 59	18°41	6° 9	4°10	18°10	24° 0	9°30	20°41	22°33	18°19	19°12	24°10	25°45	S 26
S 27	12 20 42	7° 3'44	14°56	20°34	6°14	4°19	18° 6	24° 6	9°33	20°40	22°34	18°D19	19° 9	24°17	25°48	S 27
M28	12 24 38	8° 3'07	28°33	22°24	6°20	4°29	18° 2	24°12	9°36	20°39	22°35	18°19	19° 6	24°24	25°50	M28
T 29	12 28 35	9° 2'27	11 M .49	24°11	6°29	4°39	17°57	24°18	9°39	20°38	22°37	18°20	19° 3	24°31	25°52	T 29
W30	12 32 31	10° 1'46	24°44	25°55	6°40	4°50	17°53	24°24	9°42	20°37	22°38	18°20	19° 0	24°37	25°54	W30
T 31	12 36 28	11 ° 1'03	7 . ₹20	27 Y 35	6 ¥ 53	5 Ω 1	17 M .48	24831	9)(45	20 N 36	22 Y 40	18 ≏ 21	18 ≏ 56	24 중 44	25 II 56	T 31

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	decl	decl lat	decl lat	decl lat de	el lat c	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl dec	decl lat
T 1 W 2 T 3 F 4	7 0 6 37 6 14	14 33 2 27 16 43 3 23 18 4 4 9	11 50 2 8 11 9 2 7	2n29 8n44 23n 2 17 8 47 23 2 5 8 49 23 1 52 8 50 23	8 3 59 16 8 3 57 16 8 3 55 16	6 14 1 15 6 14 1 16 6 13 1 16	16 19 2 0 16 20 2 0	9 s12 0 s44 9 11 0 44 9 10 0 44 9 9 0 44	14 41 0 17 14 42 0 17 14 42 0 17	7s 6 16s53 7 6 16 52 7 5 16 52 7 5 16 52	7 25	8 0 16 3 7 58 16 3 7 57 16 3	
S 5 S 6 M 7 T 8 W 9 T 10		18 34 4 43 18 15 5 4 17 7 5 12 15 15 5 7 12 44 4 48 9 39 4 17	9 45 2 3 9 1 2 1 8 16 1 58 7 29 1 54	1 23 8 49 23 1 7 8 47 23 0 51 8 44 23 0 35 8 40 23	6 3 49 16 5 3 47 16	6 13 1 16 6 13 1 16 6 12 1 16 6 12 1 17	16 26 1 59 16 27 1 59	9 7 0 44 9 6 0 44 9 5 0 44 9 3 0 44 9 2 0 44 9 1 0 44	14 43 0 17 14 44 0 17 14 44 0 17 14 45 0 17	7 4 16 52 7 3 16 51 7 3 16 51 7 2 16 51 7 1 16 51 7 1 16 51	7 24 7 23 7 21 7 19	7 56 16 3 7 55 16 3 7 54 16 3 7 52 16 3 7 51 16 3 7 50 16 3	4 17 17 6 4 3 17 18 6 3 2 17 18 6 3
F 11 S 12	3 30 3 7	6 7 3 33 2 16 2 39	5 53 1 45 5 3 1 40	0 1 8 30 23 0s16 8 24 22 3	0 3 40 16 8 3 38 16	6 11 1 17 6 10 1 17	16 30 1 58 16 32 1 58	9 0 0 44 8 58 0 44	14 46 0 17 14 46 0 17	7 0 16 50 7 0 16 50	7 15 7 14	7 49 16 2 7 48 16 2	9 17 19 6 2 8 17 20 6 1
S 13 M14 T 15 W16 T 17 F 18 S 19	2 43 2 20 1 56 1 32 1 8 0 45 0 21	1n44	3 20 1 28 2 27 1 21 1 33 1 14 0 39 1 6 0n16 0 58	0 50 8 9 22 5 1 7 8 0 22 5 1 24 7 51 22 4 1 40 7 42 22 4 1 55 7 32 22 4	4 3 34 16 2 3 32 16 9 3 29 16 6 3 27 16 4 3 25 16	6 9 1 17 6 9 1 18 6 8 1 18 6 7 1 18 6 6 1 18	16 33	8 57 0 44 8 56 0 44 8 55 0 44 8 53 0 44 8 52 0 44 8 51 0 44 8 50 0 44	14 47 0 17 14 48 0 17 14 48 0 17 14 48 0 17 14 49 0 17	6 59 16 50 6 58 16 50 6 58 16 50 6 57 16 50 6 57 16 49 6 56 16 49 6 55 16 49	7 12 7 12 7 13 7 13 7 14	7 44 16 2 7 43 16 2 7 42 16 2	5 17 21 6 0 4 17 21 6 0 3 17 22 6 0 2 17 22 5 59 1 17 22 5 59
S 20 M21 T 22 W23 T 24 F 25 S 26	0 27	16 52 5 16	3 5 0 29 4 1 0 19 4 57 0 8 5 53 0n 3 6 49 0 15	3 6 6 36 22 2 3 18 6 24 22 2	4 3 19 16 0 3 17 16 7 3 14 16 3 3 12 16 9 3 10 15	6 3 1 18 6 2 1 19 6 1 1 19 6 0 1 19 5 59 1 19	16 44	8 48 0 44 8 47 0 44 8 46 0 44 8 45 0 44 8 44 0 44 8 42 0 44 8 41 0 44	14 50 0 17 14 50 0 17 14 51 0 17 14 51 0 17 14 51 0 17	6 55 16 49 6 54 16 49 6 54 16 49 6 53 16 49 6 52 16 48 6 52 16 48 6 51 16 48	7 14 7 13 7 13 7 12 7 11	7 34 16 1 7 33 16 1	8 17 24 5 58 7 17 24 5 57 6 17 25 5 57 5 17 25 5 56 4 17 26 5 56
S 27 M28 T 29 W30 T 31	3 58	13 22 2 7 15 54 3 8	9 30 0 51 10 21 1 3	3 58 5 36 22 4 6 5 24 22 4 13 5 12 21 3	6 3 4 15 2 3 2 15 7 3 0 15	5 55 1 19 5 54 1 19 5 53 1 20	16 57 1 55 16 59 1 55	8 39 0 44 8 38 0 44 8 37 0 44		6 51 16 48 6 50 16 48 6 50 16 48 6 49 16 48 6 48 16 48	7 11 7 11 7 11	7 28 16 1 7 27 16 1	2 17 26 5 55 1 17 27 5 55 0 17 27 5 54 9 17 28 5 54 8 17n28 5 s54

Julian Day Number = 2484111.5, Delta T = 88.40 sec Ecliptic obliquity = 23°25'31, Nutation = $0^{\circ}00'07$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $25^{\circ}59'10$, Lahiri = $25^{\circ}06'10$

APRIL 2089 00:00 UT

VI 1/2	L LUU.	,													00.0	0 0.
Day	Sid.t	0	D	ğ	φ	♂	4	ħ)મ(#	В	S.	Ω	Ç	ę,	Day
F 1	12 40 24	12 ° 0'18	19 × 39	29Υ10	7 ∺ 8	5 Ω 13	17°R43	24 8 37	9) 48	20°R35	22 Y 41	18 ≏ 22	18 ≏ 53	24 궁 51	25 Ⅱ 59	F 1
S 2	12 44 21	12°59'31	1 る 45	0842	7°26	5°26	17 M .38	24°44	9°51	20⋒34	22°42	18°22	18°50	24°58	26° 1	S 2
S 3	12 48 18	13°58'43	13°42	2° 8	7°45	5°39	17°33	24°50	9°54	20°33	22°44	18°R22	18°47	25° 4	26° 4	S 3
M 4	12 52 14	14°57'53	25°35	3°29	8° 6	5°52	17°28	24°57	9°57	20°33	22°45	18°22	18°44	25°11	26° 7	M 4
T 5	12 56 11	15°57'01	7≈29	4°45	8°29	6° 6	17°22	25° 3	10° 0	20°32	22°47	18°22	18°41	25°18	26° 9	T 5
W 6	13 0 7	16°56'07	19°27	5°55	8°53	6°20	17°17	25°10	10° 3	20°31	22°48	18°22	18°37	25°24	26°12	W 6
T 7	13 4 4	17°55'11	1 ★35	6°59	9°20	6°35	17°11	25°17	10° 6	20°30	22°49	18°D22	18°34	25°31	26°15	T 7
F 8	13 8 0	18°54'14	13°54	7°57	9°47	6°51	17° 5	25°23	10° 9	20°29	22°51	18°22	18°31	25°38	26°18	F 8
S 9	13 11 57	19°53'14	26°29	8°49	10°17	7° 6	16°59	25°30	10°12	20°29	22°52	18°22	18°28	25°45	26°21	S 9
S 10	13 15 53	20°52'13	9 Υ 20	9°35	10°48	7°23	16°53	25°37	10°15	20°28	22°54	18°22	18°25	25°51	26°24	S 10
M11	13 19 50	21°51'10	22°29	10°14	11°20	7°39	16°47	25°44	10°18	20°27	22°55	18°R22	18°21	25°58	26°27	M11
T 12	13 23 46	22°50'05	5 8 53	10°46	11°54	7°56	16°40	25°51	10°20	20°27	22°56	18°22	18°18	26° 5	26°30	T 12
W13	13 27 43	23°48'58	19°33	11°12	12°29	8°14	16°34	25°58	10°23	20°26	22°58	18°21	18°15	26°11	26°33	W13
T 14	13 31 40	24°47'48	3Ⅱ25	11°31	13° 5	8°32	16°27	26° 5	10°26	20°26	22°59	18°21	18°12	26°18	26°37	T 14
F 15	13 35 36	25°46'37	17°26	11°44	13°43	8°50	16°21	26°12	10°28	20°25	23° 1	18°20	18° 9	26°25	26°40	F 15
S 16	13 39 33	26°45'23	1935	11°50	14°21	9° 9	16°14	26°19	10°31	20°25	23° 2	18°19	18° 6	26°32	26°43	S 16
S 17	13 43 29	27°44'08	15°47	11°R50	15° 1	9°28	16° 7	26°26	10°34	20°24	23° 4	18°19	18° 2	26°38	26°47	S 17
M18	13 47 26	28°42'49	0Ω 1	11°45	15°42	9°48	16° 0	26°33	10°36	20°24	23° 5	18°D18	17°59	26°45	26°50	M18
T 19	13 51 22	29°41'29	14°13	11°33	16°24	10° 7	15°53	26°40	10°39	20°23	23° 6	18°19	17°56	26°52	26°54	T 19
W20	13 55 19	0840'06	28°21	11°16	17° 7	10°28	15°46	26°48	10°41	20°23	23° 8	18°19	17°53	26°59	26°58	W20
T 21	13 59 15	1°38'41	12 m 24	10°54	17°51	10°48	15°39	26°55	10°44	20°23	23° 9	18°20	17°50	27° 5	27° 1	T 21
F 22	14 3 12	2°37'14	26°18	10°27	18°35	11° 9	15°32	27° 2	10°46	20°23	23°11	18°21	17°46	27°12	27° 5	F 22
S 23	14 7 9	3°35'45	10☎ 3	9°57	19°21	11°30	15°24	27°10	10°49	20°22	23°12	18°22	17°43	27°19	27° 9	S 23
S 24	14 11 5	4°34'14	23°34	9°23	20° 8	11°52	15°17	27°17	10°51	20°22	23°13	18°R22	17°40	27°25	27°13	S 24
M25	14 15 2	5°32'41	6M52	8°46	20°55	12°14	15° 9	27°24	10°53	20°22	23°15	18°22	17°37	27°32	27°17	M25
T 26	14 18 58	6°31'06	19°55	8° 7	21°43	12°36	15° 2	27°32	10°56	20°22	23°16	18°20	17°34	27°39	27°21	T 26
W27	14 22 55	7°29'29	2 ~ 141	7°28	22°32	12°58	14°54	27°39	10°58	20°22	23°18	18°17	17°31	27°46	27°25	W27
T 28	14 26 51	8°27'51	15°13	6°47	23°22	13°21	14°47	27°47	11° 0	20°21	23°19	18°14	17°27	27°52	27°29	T 28
F 29	14 30 48	9°26'11	27°30	6° 7	24°12	13°44	14°39	27°54	11° 2	20°21	23°20	18°11	17°24	27°59	27°33	F 29
S 30	14 34 44	10824'29	9 ප 36	5 8 28	25 米 3	14 Q 7	14ML32	28 8 2	11) 4	20°D21	23 Y 22	18 쇼 8	17 ♀ 21	28 궁 6	27 Ⅲ 37	S 30

Day	0	D		ğ	5	P)	a	и	2	+	ħ	l) _į	ł(4		Р	n	Ω	Ç	Š	
	decl	decl lat	t	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	decl	decl	decl	decl	lat
F 1 S 2	4n45 5 8	18 s 24 4 18 21 5		12n42 13 25	1n38 1 49	4 s 2 5 4 3 0		21n48 21 43		15 s50 15 48	1n20 1 20		1 s54 1 54	8 s34 8 33		14n54 14 54	0n17 0 17	6s48 16s48 6 47 16 48			16s 7 16 5		5 s53 5 53
1	3 8					4 30																	
S 3 M 4	5 31			14 5	2 0	4 34		21 38 21 32	2 52 2 50	15 47	1 20		1 54 1 54	8 32 8 31		-	0 17	6 47 16 48		7 21 7 20		17 30	5 53
T 5	5 54 6 16	15 51 5 13 33 5		14 43 15 17	2 10 2 20	4 37 4 39		21 32	2 48		1 20 1 20		1 54	8 30	0 44 0 44	14 55 14 55	0 17 0 17	6 46 16 47 6 46 16 47		7 20 7 19		17 30 17 31	5 52 5 52
W 6	6 39			15 49	2 28	4 41		21 22		15 42	1 20		1 53	8 29	0 44	14 55	0 17	6 45 16 47		7 18		17 31	5 51
T 7	7 2	7 18 3	3 51	16 18	2 37	4 42	3 38	21 16	2 44	15 40	1 20	17 15	1 53	8 28	0 44	14 55	0 17	6 45 16 47	7 12	7 16	16 0	17 31	5 51
F 8	7 24	3 34 3		16 44	2 44	4 42		21 10		15 38			1 53	8 27		14 56	0 17	6 44 16 47			15 59		5 51
S 9	7 46	0n25 1	1 58	17 7	2 50	4 41	3 16	21 4	2 41	15 37	1 20	17 18	1 53	8 26	0 44	14 56	0 17	6 43 16 47	7 12	7 14	15 58	17 32	5 50
S 10	8 9	4 28 0	50	17 26	2 55	4 39	3 5	20 58	2 39	15 35	1 21	17 20	1 53	8 25	0 44	14 56	0 17	6 43 16 47	7 12	7 13	15 57	17 33	5 50
M11	8 31	-		17 43	2 59	4 37		20 52		15 33	1 21	17 22	1 52	8 23			0 17	6 42 16 47			15 56		5 50
T 12 W13				17 56	3 2	4 34		20 46 20 40		15 31	1 21 1 21	17 23	1 52 1 52	8 22			0 17	6 42 16 47		7 10 7 9		17 34 17 34	5 49 5 49
T 14	9 14 9 36			18 5 18 12	3 4	4 30 4 26	-	20 40 20 33		15 29 15 27	1 21	17 25 17 27	1 52	8 21 8 20	0 45 0 45		0 17 0 17	6 41 16 47	7 12 7 11	7 9 7 8		17 34	5 49
F 15	9 57			18 15	3 3	4 20		20 27		15 25	1 21	17 29	1 52	8 19			0 17	6 40 16 47		7 7			5 48
S 16	10 19	18 22 5	5 3	18 15	3 1	4 15		20 20		15 24	1 21		1 52	8 18		14 57	0 17	6 40 16 47	7 11	7 6	15 50		5 48
S 17	10 40	17 15 5	5 16	18 11	2 57	4 8	1 55	20 13	2 26	15 22	1 21	17 32	1 51	8 18	0 45	14 57	0 17	6 39 16 47	7 10	7 4	15 49	17 36	5 48
M18	11 1	15 5 5	5 10	18 5	2 52	4 1	1 45	20 7	2 25	15 20	1 21	17 34	1 51	8 17	0 45	14 57	0 17	6 39 16 47	7 10	7 3	15 48	17 36	5 47
T 19	11 21	12 0 4		17 55	2 45	3 53		19 59	2 23		1 21	17 36	1 51	8 16		14 58	0 17	6 38 16 47		7 2	,		5 47
W20	11 42	8 14 4		17 42	2 37	3 45		19 52	2 21	15 15	1 21	17 38	1 51	8 15			0 17	6 38 16 47		7 1		17 37	5 47
T 21 F 22	12 2 12 22	4 2 3 0s21 1	1 59	17 26 17 7	2 28 2 17	3 36 3 27		19 45 19 38		15 13 15 11	1 21 1 21	17 39 17 41	1 51 1 51	8 14 8 13		14 58 14 58	0 17 0 17	6 38 16 47 6 37 16 47		6 59	15 45 15 43		5 46 5 46
S 23	12 42			16 46	2 17	3 16		19 30		15 11			1 51	8 12		14 58	0 17	6 37 16 47			15 43		5 46
S 24	13 2	8 42 ()n29	16 23	1 52	3 6		19 23	2 15			17 45	1 51	8 11		14 58	0 17	6 36 16 48	7 12		15 41		5 46
M25	13 22			15 58	1 38	2 55		19 15	2 13		1 21	17 47	1 50	8 10			0 17	6 36 16 48			15 40		5 45
T 26	-	-		15 31	1 23	2 43		19 7	2 12		1 21	17 48	1 50	8 9			0 17	6 35 16 48			15 39		5 45
W27	14 0	17 5 3	3 41	15 3	1 7	2 31	0 29	18 59	2 10		1 21	17 50	1 50	8 9	0 45	14 58	0 17	6 35 16 48	7 10	6 52	15 38	17 39	5 45
T 28	-	-		14 34	0 50	2 18	-	18 51		14 58	1 21	17 52	1 50	8 8	0 45	14 58	0 17	6 35 16 48			15 37		5 45
F 29				14 5	0 34	2 5		18 43		14 56	1 21	17 54	1 50	8 7		14 58	0 18	6 34 16 48		6 50			5 44
S 30	14n56	17 s 5 5	5n11	13n36	0n16	1 s 5 1	0n 7	18n35	2n 6	14 s 5 4	1n21	17n55	1 s50	8s 6	0 s45	14n58	0n18	6s34 16s48	7s 6	6 s49	15 s34	17n40	5 s44

 $\label{eq:Julian Day Number = 2484142.5, Delta T = 88.44 sec} \\ Ecliptic obliquity = 23°25'31, Nutation = 0°00'05, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 25°59'14, Lahiri = 25°06'14} \\$

MAY 2089 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ)∤(¥	Р	ß	Ω	Ç	ķ	Day
S 1	14 38 41	11822'46	21 궁 34	4°R51	25 米 55	14 Ω 31	14°R24	28 8 9	11) 7	20Ω21	23Υ23	18°R 6	17 ≏ 18	28 궁 12	27 Ⅱ 42	S 1
M 2	14 42 38	12°21'01	3≈28	4 8 15	26°47	14°55	14 M .17	28°17	11° 9	20°21	23°24	18 ♀ 4	17°15	28°19	27°46	M 2
T 3	14 46 34	13°19'15	15°21	3°43	27°40	15°19	14° 9	28°24	11°11	20°21	23°26	18°D 4	17°12	28°26	27°50	T 3
W 4	14 50 31	14°17'27	27°19	3°13	28°34	15°43	14° 1	28°32	11°13	20°22	23°27	18° 5	17° 8	28°33	27°55	W 4
T 5	14 54 27	15°15'38	9) 27	2°48	29°28	16° 8	13°54	28°40	11°15	20°22	23°28	18° 6	17° 5	28°39	27°59	T 5
F 6	14 58 24	16°13'47	21°49	2°26	0 Υ 23	16°33	13°46	28°47	11°16	20°22	23°30	18° 8	17° 2	28°46	28° 4	F 6
S 7	15 2 20	17°11'55	4 Υ 29	2° 9	1°18	16°58	13°38	28°55	11°18	20°22	23°31	18° 9	16°59	28°53	28° 8	S 7
S 8	15 6 17	18°10'01	17°30	1°56	2°13	17°24	13°31	29° 3	11°20	20°22	23°32	18°R10	16°56	28°59	28°13	S 8
M 9	15 10 13	19° 8'06	0 8 53	1°48	3° 9	17°49	13°23	29°10	11°22	20°23	23°34	18° 9	16°52	29° 6	28°17	M 9
T 10	15 14 10	20° 6'10	14°38	1°D44	4° 6	18°15	13°15	29°18	11°24	20°23	23°35	18° 7	16°49	29°13	28°22	T 10
W11	15 18 7	21° 4'12	28°43	1°45	5° 3	18°41	13° 8	29°26	11°25	20°23	23°36	18° 4	16°46	29°20	28°27	W11
T 12	15 22 3	22° 2'12	13 II 3	1°51	6° 1	19° 8	13° 0	29°33	11°27	20°24	23°37	17°59	16°43	29°26	28°32	T 12
F 13	15 26 0	23° 0'11	27°33	2° 1	6°58	19°34	12°53	29°41	11°29	20°24	23°39	17°54	16°40	29°33	28°36	F 13
S 14	15 29 56	23°58'08	1295 6	2°16	7°57	20° 1	12°45	29°49	11°30	20°24	23°40	17°49	16°37	29°40	28°41	S 14
S 15	15 33 53	24°56'03	26°37	2°36	8°55	20°28	12°38	29°57	11°32	20°25	23°41	17°45	16°33	29°47	28°46	S 15
M16	15 37 49	25°53'56	11 Ω 0	2°59	9°54	20°55	12°31	0 Ⅱ 4	11°33	20°25	23°43	17°42	16°30	29°53	28°51	M16
T 17	15 41 46	26°51'48	25°12	3°27	10°54	21°23	12°24	0°12	11°35	20°26	23°44	17°D41	16°27	29°59	28°56	T 17
W18	15 45 42	27°49'37	9 m p11	4° 0	11°53	21°50	12°16	0°20	11°36	20°26	23°45	17°42	16°24	0≈ 7	29° 1	W18
T 19	15 49 39	28°47'25	22°57	4°36	12°53	22°18	12° 9	0°28	11°37	20°27	23°46	17°43	16°21	0°13	29° 6	T 19
F 20	15 53 36	29°45'11	6 ₽ 29	5°16	13°54	22°46	12° 2	0°35	11°39	20°28	23°47	17°44	16°18	0°20	29°11	F 20
S 21	15 57 32	0∏42'56	19°49	5°59	14°54	23°14	11°55	0°43	11°40	20°28	23°49	17°R45	16°14	0°27	29°16	S 21
S 22	16 1 29	1°40'39	2 M .56	6°47	15°55	23°42	11°48	0°51	11°41	20°29	23°50	17°44	16°11	0°34	29°21	S 22
M23	16 5 25	2°38'21	15°52	7°38	16°57	24°11	11°42	0°59	11°42	20°30	23°51	17°40	16° 8	0°40	29°26	M23
T 24	16 9 22	3°36'01	28°36	8°32	17°58	24°40	11°35	1° 7	11°43	20°31	23°52	17°35	16° 5	0°47	29°31	T 24
W25	16 13 18	4°33'40	11 ~ 8	9°29	19° 0	25° 9	11°28	1°14	11°44	20°31	23°53	17°28	16° 2	0°54	29°37	W25
T 26	16 17 15	5°31'18	23°30	10°30	20° 2	25°38	11°22	1°22	11°45	20°32	23°54	17°20	15°58	1° 0	29°42	T 26
F 27	16 21 11	6°28'55	5 ਰ 41	11°34	21° 5	26° 7	11°16	1°30	11°46	20°33	23°55	17°11	15°55	1° 7	29°47	F 27
S 28	16 25 8	7°26'31	17°44	12°41	22° 7	26°36	11° 9	1°38	11°47	20°34	23°56	17° 2	15°52	1°14	29°52	S 28
S 29	16 29 5	8°24'05	29°40	13°51	23°10	27° 6	11° 3	1°45	11°48	20°35	23°57	16°55	15°49	1°21	29°58	S 29
M30	16 33 1	9°21'39	11≈32	15° 4	24°13	27°35	10°57	1°53	11°49	20°36	23°59	16°49	15°46	1°27	0ණ 3	M30
T 31	16 36 58	10 Ⅱ 19'12	23≈24	16 8 19	25 ℃ 17	28 N 5	10 M 51	2 I 1	11 米 50	20Ω 37	24 Y 0	16 ≏ 45	15 ≏ 43	1≈34	0න 8	T 31

Day	0	D	ğ	Ф	ď	4	ħ)ਮੂ(卉	Р	v	v i	, k
	decl	decl lat	decl lat	decl lat de	l lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl d	ecl decl lat
S 1 M 2	15 32	14 27 5 3		1 s37 On 0 18n2 1 22 Os 6 18 1	8 2 3	14 s52 1 n21 14 50 1 21		8s 5 0s45 8 5 0 45	14 58 0 18	6s33 16s48 6 33 16 48	7 5	6 46 15	33 17n41 5 s44 32 17 41 5 43
T 3 W 4 T 5	15 50 16 7 16 24	8 35 4 4	12 12 0 35 11 46 0 52 11 23 1 8	1 7 0 13 18 1 0 52 0 19 18 0 36 0 26 17 5	1 2 0	14 47 1 21 14 45 1 21 14 43 1 21	18 1 1 50 18 3 1 49 18 4 1 49	8 4 0 45 8 3 0 45 8 3 0 45		6 33 16 48 6 32 16 48 6 32 16 48	7 5	6 44 15	31 17 41 5 43 30 17 42 5 43 29 17 42 5 43
F 6 S 7	16 41 16 58	1 6 2 19		0 20 0 32 17 4	3 1 57	14 41 1 20	18 6 1 49	8 2 0 45	14 58 0 18 14 58 0 18	6 32 16 49 6 31 16 49	7 6	6 41 15	28 17 42 5 43 26 17 42 5 42
S 8 M 9 T 10	17 14 17 30 17 45	10 42 1s 9		0n13		14 34 1 20	18 11 1 49		14 58 0 18 14 58 0 18 14 58 0 18	6 31 16 49 6 31 16 49 6 30 16 49	7 7	6 38 15	25 17 43 5 42 24 17 43 5 42 23 17 43 5 42
W11 T 12	18 1	14 0 2 20 16 33 3 23 18 8 4 15	9 46 2 28	1 6 0 59 16 5 1 24 1 4 16 4	7 1 50	14 30 1 20	18 15 1 49	7 59 0 45 7 59 0 45 7 58 0 45	14 58 0 18	6 30 16 49 6 30 16 49 6 30 16 49	7 5	6 35 15	22 17 43 5 41 22 17 44 5 41
F 13 S 14	18 31 18 45	17 44 5 9		1 42 1 9 16 3 2 1 1 14 16 2	8 1 46	14 24 1 20	18 20 1 49	7 57 0 46	14 57 0 18 14 57 0 18	6 29 16 50 6 29 16 50	6 59	6 32 15	19 17 44 5 41 18 17 44 5 41
S 15 M16 T 17	18 59 19 13 19 27	15 48 5 7 12 53 4 46 9 14 4 7	7 30 3 3	2 20 1 19 16 1 2 39 1 23 16 2 58 1 27 15 5	9 1 43	14 21 1 20 14 19 1 19 14 17 1 19	18 23 1 48	7 56 0 46 7 56 0 46 7 55 0 46		6 29 16 50 6 28 16 50 6 28 16 50	6 57	6 29 15	17 17 44 5 41 16 17 45 5 41 15 17 45 5 40
W18 T 19	19 40 19 53	5 7 3 14 0 48 2 10	9 43 3 19 9 51 3 23	3 18 1 31 15 4 3 38 1 35 15 3	8 1 40 8 1 39	14 15 1 19 14 13 1 19	18 27 1 48 18 28 1 48	7 55 0 46 7 54 0 46	14 57 0 18 14 56 0 18	6 28 16 51 6 28 16 51	6 56 6 57	6 27 15 6 25 15	14 17 45 5 40 12 17 45 5 40
	20 5 20 17		10 2 3 26 10 14 3 28	3 58 1 39 15 2 4 18 1 42 15 1	7 1 37	14 9 1 19	18 32 1 48		14 56 0 18	6 27 16 51 6 27 16 51	6 58	6 23 15	11 17 45 5 40 10 17 46 5 40
S 22 M23 T 24	20 29 20 41 20 52	14 15 2 26		4 38 1 46 15 4 58 1 49 14 5 5 19 1 52 14 4	-	14 5 1 18		7 53 0 46 7 53 0 46 7 52 0 46		6 27 16 51 6 27 16 52 6 27 16 52	6 56	6 22 15 6 21 15 6 19 15	9 17 46 5 40 8 17 46 5 40 6 17 46 5 39
W25 T 26	21 2 21 13	18 0 4 8 18 35 4 41	11 21 3 28 11 42 3 26	5 39 1 55 14 3 6 0 1 58 14 2	4 1 32 1 3 1 31	14 2 1 18 14 0 1 18	18 38 1 48 18 40 1 48	7 52 0 46 7 51 0 46	14 55 0 18 14 55 0 18	6 26 16 52 6 26 16 52	6 48	6 18 15 6 17 15	5 17 46 5 39 4 17 46 5 39
S 28	21 23 21 32	17 11 5 6	12 4 3 23 12 27 3 20	6 42 2 3 14	1 1 28		18 43 1 48	7 51 0 46 7 51 0 46	14 54 0 18	6 26 16 52 6 26 16 53	6 41	6 16 15 6 14 15	3 17 46 5 39 2 17 47 5 39
M30	21 42 21 50 21n59	12 51 4 39	12 52 3 16 13 17 3 12 13n44 3 s 6	7 3 2 6 13 5 7 24 2 8 13 3 7n45 2s10 13n2	9 1 26	13 53 1 17	18 44 1 48 18 46 1 48 18n48 1 s48	7 50 0 46	14 54 0 18 14 54 0 18 14n53 0n18	6 26 16 53 6 26 16 53 6 s25 16 s53	6 36	-	0 17 47 5 39 59 17 47 5 39 358 17n47 5 s39

Julian Day Number = 2484172.5, Delta T = 88.47 sec Ecliptic obliquity = 23°25'31, Nutation = $0^{\circ}00'04$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $25^{\circ}59'18$, Lahiri = $25^{\circ}06'19$

JUNE 2089 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ)∤(¥	Р	ß	Ω	Ç	ę,	Day
W 1	16 40 54	11 II 16'43	5) (21	17 8 38	26 Y 20	28€35	10°R45	2 П 9	11 米 51	20⋒38	24 Y 1	16°R43	15 ≏ 39	1≈41	09514	W 1
T 2	16 44 51	12°14'14	17°27	18°59	27°24	29° 5	10 M .40	2°16	11°51	20°39	24° 2	16°D43	15°36	1°47	0°19	T 2
F 3	16 48 47	13°11'45	29°47	20°23	28°28	29°36	10°34	2°24	11°52	20°40	24° 3	16 ≏ 44	15°33	1°54	0°24	F 3
S 4	16 52 44	14° 9'14	12 Y 26	21°50	29°32	0 m y 6	10°29	2°32	11°52	20°41	24° 4	16°R45	15°30	2° 1	0°30	S 4
S 5	16 56 40	15° 6'43	25°29	23°19	0 8 37	0°37	10°24	2°39	11°53	20°42	24° 5	16°45	15°27	2° 8	0°35	S 5
M 6	17 0 37	16° 4'11	8 8 58	24°51	1°41	1° 8	10°19	2°47	11°53	20°43	24° 6	16°42	15°24	2°14	0°41	M 6
T 7	17 4 34	17° 1'38	22°55	26°26	2°46	1°39	10°14	2°55	11°54	20°44	24° 6	16°38	15°20	2°21	0°46	T 7
W 8	17 8 30	17°59'05	7 Ⅱ 16	28° 3	3°51	2°10	10° 9	3° 2	11°54	20°45	24° 7	16°31	15°17	2°28	0°52	W 8
T 9	17 12 27	18°56'31	21°58	29°43	4°56	2°41	10° 4	3°10	11°55	20°47	24° 8	16°23	15°14	2°35	0°57	T 9
F 10	17 16 23	19°53'56	6952	1∏26	6° 2	3°12	10° 0	3°17	11°55	20°48	24° 9	16°13	15°11	2°41	1° 3	F 10
S 11	17 20 20	20°51'20	21°51	3°11	7° 7	3°44	9°55	3°25	11°55	20°49	24°10	16° 4	15° 8	2°48	1° 8	S 11
S 12	17 24 16	21°48'43	6 Ω 44	4°58	8°13	4°15	9°51	3°32	11°55	20°50	24°11	15°57	15° 4	2°55	1°14	S 12
M13	17 28 13	22°46'06	21°24	6°49	9°19	4°47	9°47	3°40	11°56	20°52	24°12	15°51	15° 1	3° 1	1°19	M13
T 14	17 32 9	23°43'27	5 Mp 46	8°41	10°25	5°19	9°43	3°47	11°56	20°53	24°13	15°48	14°58	3°8	1°25	T 14
W15	17 36 6	24°40'47	19°47	10°36	11°31	5°51	9°40	3°55	11°R56	20°55	24°13	15°D46	14°55	3°15	1°31	W15
T 16	17 40 3	25°38'06	3 ≏ 27	12°34	12°37	6°23	9°36	4° 2	11°56	20°56	24°14	15°46	14°52	3°22	1°36	T 16
F 17	17 43 59	26°35'24	16°48	14°33	13°43	6°55	9°33	4°10	11°56	20°57	24°15	15°R47	14°49	3°28	1°42	F 17
S 18	17 47 56	27°32'41	29°53	16°35	14°50	7°27	9°29	4°17	11°55	20°59	24°16	15°46	14°45	3°35	1°47	S 18
S 19	17 51 52	28°29'58	12 M 42	18°39	15°57	8° 0	9°26	4°24	11°55	21° 0	24°16	15°43	14°42	3°42	1°53	S 19
M20	17 55 49	29°27'14	25°20	20°44	17° 3	8°32	9°24	4°32	11°55	21° 2	24°17	15°38	14°39	3°48	1°59	M20
T 21	17 59 45	09524'29	7 √ 147	22°51	18°10	9° 5	9°21	4°39	11°55	21° 3	24°18	15°30	14°36	3°55	2° 4	T 21
W22	18 3 42	1°21'44	20° 5	25° 0	19°17	9°38	9°18	4°46	11°55	21° 5	24°18	15°19	14°33	4° 2	2°10	W22
T 23	18 7 38	2°18'58	2 ਰ 15	27° 9	20°25	10°11	9°16	4°54	11°54	21° 7	24°19	15° 7	14°30	4° 9	2°15	T 23
F 24	18 11 35	3°16'11	14°18	29°20	21°32	10°44	9°14	5° 1	11°54	21° 8	24°20	14°53	14°26	4°15	2°21	F 24
S 25	18 15 32	4°13'25	26°16	19931	22°39	11°17	9°12	5° 8	11°53	21°10	24°20	14°41	14°23	4°22	2°27	S 25
S 26	18 19 28	5°10'38	8≈ 9	3°42	23°47	11°50	9°10	5°15	11°53	21°11	24°21	14°29	14°20	4°29	2°32	S 26
M27	18 23 25	6° 7'51	19°59	5°54	24°55	12°24	9° 9	5°22	11°52	21°13	24°22	14°20	14°17	4°35	2°38	M27
T 28	18 27 21	7° 5'04	1) 51	8° 5	26° 2	12°57	9° 7	5°29	11°52	21°15	24°22	14°13	14°14	4°42	2°44	T 28
W29	18 31 18	8° 2'17	13°47	10°15	27°10	13°31	9° 6	5°36	11°51	21°16	24°23	14° 9	14°10	4°49	2°49	W29
T 30	18 35 14	8959'29	25) 51	129525	28 8 18	14Mp 4	9 ™ 5	5 Ⅱ 43	11 米 51	21 Ω 18	24 Y 23	14 ♀ 7	14 ♀ 7	4≈56	2 9 55	T 30

Day	0	D		ğ	Ç)	d	7	2	+	ħ	1) _į	β((В	n	Ω	Ç	ķ	
	decl	decl lat	dec	l lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	decl	decl	decl	decl	lat
W 1 T 2	22n 7 22 15	2 39 2	23 14n1 30 14 4	0 2 54		2 14	13n16 13 4	1 22		1 17	18 51	1 s48 1 48	7 s50 7 50	0 46	14 53	0n18 0 18	6s25 16s5 6 25 16 5	4 6 34	6 8		17 47	5 s 3 9 5 3 9
F 3 S 4	22 22 22 29		30 15 23 15 3	9 2 47 8 2 40	8 48 9 9		12 53 12 41	1 21 1 20	13 47 13 45	1 16 1 16		1 48 1 48	7 49 7 49			0 18 0 18	6 25 16 5 6 25 16 5		6 7 6 6	14 54 14 53	17 47	5 38 5 38
S 5 M 6	22 36 22 42	12 39 1	56 16 3		9 51	2 20	12 29 12 17	1 18	13 44 13 42	1 16 1 16	18 57	1 48 1 48	7 49 7 49	0 46	14 51	0 18 0 18	6 25 16 5 6 25 16 5	6 34	6 3	-	17 47	5 38 5 38
W 8 T 9	22 53 22 58	17 38 3 18 35 4	56 17 4 37 18 1	1 1 56	10 33	2 23 2 24	12 5 11 53 11 40	1 16 1 15	13 41 13 40 13 38	1 15 1 15 1 15	19 0 19 1	1 48 1 48 1 48	7 49 7 49 7 48	0 46	14 51	0 18 0 18 0 18	6 25 16 5 6 25 16 5 6 25 16 5	5 6 30 6 6 26	6 1 6 0	14 47	17 47 17 47	5 38 5 38 5 38
F 10 S 11	23 7	16 41 5		3 1 36	11 36	2 25	11 28 11 16	1 13	13 37 13 36		19 4	1 48 1 48	7 48 7 48	0 47	14 50 14 49	0 18 0 18	6 25 16 5 6 25 16 5	6 6 19	5 57	14 46 14 45	17 47	5 38 5 38
M13 T 14	23 14 23 17	10 27 4 6 21 3	16 20 4	3 1 15 1 1 4	12 37	2 27	10 51 10 38	1 10 1 9	13 35 13 34 13 33	1 14 1 14	19 7 19 8	1 48 1 48 1 48	7 48 7 48 7 48	0 47 0 47	14 48	0 18 0 18 0 18	6 25 16 5 6 24 16 5 6 24 16 5	7 6 14 7 6 13	5 55 5 54	14 43 14 42 14 41	17 47 17 47	5 38 5 38 5 38
W15 T 16 F 17 S 18	23 19 23 21 23 23 23 24	2 s 2 2 1 6 3 1 0	5 21 3 5 22 0n 5 22 14 22 2	6 0 41 2 0 30	13 17		10 25 10 12 10 0 9 47	1 6	13 32 13 31 13 30 13 30			1 48 1 48 1 48 1 48	7 48 7 48 7 48 7 48	0 47 0 47	14 47	0 18 0 18 0 18 0 18	6 24 16 5 6 24 16 5 6 25 16 5 6 25 16 5	8 6 12 8 6 12	5 51 5 50	14 40 14 39 14 37 14 36	17 47 17 47	5 38 5 38 5 38 5 38
S 19 M20	23 25 23 25	13 27 2 15 57 3	18 22 4 13 23 1	9 0 7 0 0n 4	14 15 14 35	2 27 2 27	9 34 9 20	1 4 1 3	13 29 13 28	1 13 1 12	19 15 19 16	1 48 1 48	7 49 7 49	0 47 0 47	14 46 14 45	0 18 0 18	6 25 16 5 6 25 16 5	9 6 11	5 47 5 46	14 35 14 34	17 46 17 46	5 38 5 38
		18 32 4	59 23 2 32 23 4 53 23 5	5 0 25		2 26 2 26 2 25	9 7 8 54 8 41	1 2 1 1 1 0	13 28 13 27 13 27	1 12 1 12 1 12		1 48 1 48 1 48	7 49 7 49 7 49	0 47		0 18 0 18 0 18		9 6 6 0 6 2 0 5 57		14 32 14 31 14 30	17 46	5 38 5 38 5 39
F 24 S 25	23 23 23 21		0 24 1 54 24 1			2 24 2 24	8 27 8 14		13 26 13 26	1 11 1 11	19 21 19 22	1 48 1 48	7 49 7 49		14 43 14 43	0 18 0 18	6 25 17 6 25 17	0 5 52 1 5 47		14 29 14 27		5 39 5 39
S 26 M27 T 28	23 19 23 17 23 14	10 56 4		8 1 10	16 41	2 23 2 22 2 21	8 0 7 47 7 33	0 56	13 25 13 25 13 25	1 11 1 11 1 10		1 48 1 48 1 48	7 50 7 50 7 50	0 47		0 18 0 18 0 18	6 25 17 6 25 17 6 25 17	1 5 42 1 5 39 2 5 36	5 38	14 26 14 25 14 23	17 45	5 39 5 39 5 39
	23 11 23n 7		33 24 2 n35 24n2	-		2 19 2 s 18	7 19 7n 5		13 25 13 s25	1 10 1n10	19 27 19n28	1 48 1 s48	7 50 7 s51		14 41 14n40	0 18 0n18	6 25 17 6s26 17s	2 5 35 2 5 s34		14 22 14 s21		5 39 5 s39

Julian Day Number = 2484203.5, Delta T = 88.51 sec Ecliptic obliquity = $23^{\circ}25'30$, Nutation = $0^{\circ}00'04$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $25^{\circ}59'22$, Lahiri = $25^{\circ}06'23$

JULY 2089 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ď	4	ħ)Å(卉	Р	n	ß	Ç	ę,	Day
F 1	18 39 11	9956'42	8 Υ 9	14934	29827	14 m 38	9°R 4	5 Ⅱ 50	11°R50	21\$\Omega20\$	24 Y 24	14°R 6	14 ♀ 4	5≈ 2	399 0	F 1
S 2	18 43 7	10°53'55	20°45	16°42	0Д35	15°12	9M 3	5°57	11) (49	21°22	24°24	14 º 6	14° 1	5° 9	3° 6	S 2
S 3	18 47 4	11°51'08	3 8 45	18°48	1°43	15°46	9° 3	6° 4	11°48	21°23	24°25	14° 6	13°58	5°16	3°12	S 3
M 4	18 51 1	12°48'22	17°12	20°53	2°52	16°20	9° 2	6°10	11°48	21°25	24°25	14° 3	13°55	5°22	3°17	M 4
T 5	18 54 57	13°45'35	1 I I 9	22°56	4° 0	16°54	9°D 2	6°17	11°47	21°27	24°25	13°58	13°51	5°29	3°23	T 5
W 6	18 58 54	14°42'49	15°35	24°58	5° 9	17°28	9° 2	6°24	11°46	21°29	24°26	13°50	13°48	5°36	3°28	W 6
T 7	19 2 50	15°40'03	0925	26°58	6°18	18° 3	9° 2	6°31	11°45	21°31	24°26	13°41	13°45	5°43	3°34	T 7
F 8	19 6 47	16°37'17	15°33	28°56	7°26	18°37	9° 3	6°37	11°44	21°33	24°27	13°30	13°42	5°49	3°40	F 8
S 9	19 10 43	17°34'31	0 Ω 47	0 Ω 52	8°35	19°12	9° 3	6°44	11°43	21°35	24°27	13°19	13°39	5°56	3°45	S 9
S 10	19 14 40	18°31'46	15°58	2°46	9°44	19°47	9° 4	6°50	11°42	21°37	24°27	13°10	13°36	6° 3	3°51	S 10
M11	19 18 36	19°29'00	0 m 55	4°39	10°54	20°21	9° 5	6°57	11°40	21°38	24°27	13° 3	13°32	6° 9	3°56	M11
T 12	19 22 33	20°26'14	15°31	6°29	12° 3	20°56	9° 6	7° 3	11°39	21°40	24°28	12°59	13°29	6°16	4° 2	T 12
W13	19 26 30	21°23'28	29°41	8°18	13°12	21°31	9° 7	7° 9	11°38	21°42	24°28	12°57	13°26	6°23	4° 7	W13
T 14	19 30 26	22°20'42	13 ≏ 26	10° 4	14°21	22° 6	9° 9	7°16	11°37	21°44	24°28	12°D56	13°23	6°30	4°13	T 14
F 15	19 34 23	23°17'55	26°46	11°49	15°31	22°41	9°10	7°22	11°35	21°46	24°28	12°R56	13°20	6°36	4°18	F 15
S 16	19 38 19	24°15'09	9 M .45	13°32	16°40	23°17	9°12	7°28	11°34	21°48	24°29	12°56	13°16	6°43	4°24	S 16
S 17	19 42 16	25°12'23	22°26	15°12	17°50	23°52	9°14	7°34	11°33	21°50	24°29	12°53	13°13	6°50	4°29	S 17
M18	19 46 12	26° 9'38	4 ₹ 52	16°51	19° 0	24°27	9°16	7°40	11°31	21°52	24°29	12°48	13°10	6°56	4°34	M18
T 19	19 50 9	27° 6'52	17° 8	18°28	20° 9	25° 3	9°19	7°46	11°30	21°54	24°29	12°40	13° 7	7° 3	4°40	T 19
W20	19 54 5	28° 4'06	2 <u>9</u> °15	20° 3	21°19	25°38	9°21	7°52	11°28	21°57	24°29	12°30	13° 4	7°10	4°45	W20
T 21	19 58 2	29° 1'21	11 궁 16	21°36	22°29	26°14	9°24	7°58	11°27	21°59	24°29	12°18	13° 1	7°17	4°50	T 21
F 22	20 1 59	29°58'37	23°12	23° 7	23°39	26°50	9°27	8° 4	11°25	22° 1	24°29	12° 5	12°57	7°23	4°56	F 22
S 23	20 5 55	0 Ω 55'52	5≈ 6	24°36	24°49	27°26	9°30	8°10	11°24	22° 3	24°29	11°52	12°54	7°30	5° 1	S 23
S 24	20 9 52	1°53'09	16°57	26° 3	26° 0	28° 2	9°33	8°15	11°22	22° 5	24°R29	11°41	12°51	7°37	5° 6	S 24
M25	20 13 48	2°50'26	28°49	27°28	27°10	28°38	9°36	8°21	11°20	22° 7	24°29	11°32	12°48	7°43	5°12	M25
T 26	20 17 45	3°47'43	10) 42	28°51	28°20	29°14	9°40	8°26	11°18	22° 9	24°29	11°25	12°45	7°50	5°17	T 26
W27	20 21 41	4°45'02	22°41	0 m y 12	29°31	29°50	9°43	8°32	11°17	22°11	24°29	11°21	12°41	7°57	5°22	W27
T 28	20 25 38	5°42'21	4 Ƴ 47	1°31	09641	0 ჲ 26	9°47	8°37	11°15	22°13	24°29	11°20	12°38	8° 3	5°27	T 28
F 29	20 29 34	6°39'41	17° 6	2°48	1°52	1° 2	9°51	8°43	11°13	22°16	24°29	11°D19	12°35	8°10	5°32	F 29
S 30	20 33 31	7°37'02	29°42	4° 2	3° 2	1°39	9°55	8°48	11°11	22°18	24°29	11°20	12°32	8°17	5°37	S 30
S 31	20 37 28	8 Ω 34'25	12 8 39	5 m 15	49513	2 ₾ 15	10 M 0	8Д53	11 ∺ 9	22 \Omega 20	24 Y 29	11°R20	12 ≏ 29	8 ≈ 24	59542	S 31

Day	0	D	ğ	φ	♂ [™]	24	ħ)Å(卉	Р	U	Ω	Ç	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl	decl	decl lat
F 1 S 2	23n 3 22 59	3n43 0n32 7 33 0s35		136 17n47 2s17 40 18 3 2 15	6n51 0n53 6 37 0 52			7 s 5 1 0 s 4 7 7 5 1 0 4 7	14n40 0n18 14 39 0 18	6s26 17s 3 6 26 17 3	5 s34 5 34			17n44 5 s 39 17 44 5 39
S 3 M 4 T 5 W 6 T 7 F 8	22 49 22 43 22 37 22 30	14 19 2 45 16 46 3 41 18 15 4 25 18 33 4 53	23 34 1 4 23 16 1 4 22 57 1 22 35 1 3	52 19 15 2 7	6 9 0 50 5 55 0 49 5 41 0 48 5 27 0 47	13 25 1 8 13 25 1 8 13 26 1 8	19 33 1 48 19 34 1 48 19 35 1 48 19 36 1 48	7 52 0 47 7 52 0 47 7 52 0 48 7 53 0 48 7 53 0 48	14 38 0 18 14 37 0 18 14 37 0 18 14 36 0 18	6 26 17 3 6 26 17 4 6 26 17 4 6 27 17 4 6 27 17 5	5 33 5 32 5 30 5 27 5 24	5 29 5 28 5 27 5 25	14 16 14 15 14 13 14 12	17 44 5 40 17 44 5 40 17 43 5 40 17 43 5 40 17 43 5 40
F 8 S 9 S 10	22 23 22 16 22 9	15 18 4 47	21 46 1	52 19 29 2 5 51 19 41 2 3 50 19 54 2 1	5 12 0 46 4 58 0 45 4 44 0 44	13 26 1 7	19 38 1 48	7 54 0 48 7 54 0 48 7 55 0 48	14 35 0 18	6 27 17 5 6 27 17 5 6 27 17 6	5 19 5 15 5 12	5 23	14 9	17 42 5 40 17 42 5 40 17 42 5 41
M11 T 12 W13	22 1 21 52 21 44	0s56 1 10	20 21 1 4 19 50 1	48 20 6 1 59 46 20 17 1 57 43 20 28 1 55	4 29 0 43 4 15 0 43 4 0 0 42	13 28 1 7 13 29 1 6	19 42 1 49	7 55 0 48 7 55 0 48 7 56 0 48	14 33 0 18 14 32 0 18	6 28 17 6 6 28 17 6 6 28 17 7	5 9 5 7 5 7	5 19 5 18	14 6 14 4	17 41 5 41 17 41 5 41 17 41 5 41
T 14 F 15 S 16	21 34 21 25 21 15		18 45 1	35 20 49 1 50		13 29 1 6 13 30 1 6 13 31 1 5	19 44 1 49	7 57 0 48	14 32 0 18 14 31 0 18 14 31 0 18	6 28 17 7 6 29 17 7 6 29 17 8	5 6 5 6 5 6	-	14 2	17 40 5 41 17 40 5 42 17 40 5 42
S 17 M18 T 19 W20 T 21 F 22 S 23	20 43 20 32 20 21 20 9	17 11 3 58 18 17 4 32 18 32 4 53 17 57 5 1	17 2 1 16 26 1 15 50 1 15 14 0 14 37 0		2 46 0 37 2 32 0 36 2 17 0 36 2 2 0 35 1 47 0 34	13 34 1 5 13 35 1 4 13 36 1 4	19 47 1 49 19 48 1 49 19 49 1 49 19 49 1 49 19 50 1 49	7 58 0 48 7 59 0 48 7 59 0 48 8 0 0 48 8 1 0 48 8 1 0 48 8 2 0 48	14 29 0 18 14 28 0 18 14 27 0 18 14 27 0 18	6 29 17 8 6 29 17 9 6 30 17 9 6 30 17 9 6 30 17 10 6 31 17 10 6 31 17 10	5 0 4 56 4 51 4 46	5 12 5 11 5 9 5 8 5 7	13 58 13 57 13 55 13 54 13 53	17 38 5 42 17 38 5 43 17 38 5 43
S 24 M25 T 26 W27 T 28 F 29 S 30 S 31	19 31 19 17 19 4 18 50 18 36 18 21	8 40 3 26 5 9 2 35 1 25 1 38	12 46 0 1 12 9 0 11 32 0 10 55 0s 10 18 0 9 42 0 1	27 21 59 1 25 18 22 3 1 22 9 22 7 1 19 6 1 22 9 1 16 11 22 12 1 13 21 22 13 1 10	1 2 0 31 0 47 0 31 0 31 0 30 0 16 0 29 0 1 0 28 0 s14 0 27		19 53 1 50 19 53 1 50 19 54 1 50 19 55 1 50 19 56 1 50 19 56 1 50	8 3 0 48 8 4 0 48 8 4 0 48 8 5 0 48 8 6 0 48 8 7 0 48	14 24 0 18 14 23 0 18 14 23 0 18 14 22 0 18	6 31 17 11 6 32 17 11 6 32 17 11 6 32 17 12 6 33 17 12 6 33 17 12 6 33 17 13 6 34 17 \$13	4 29 4 29	5 3 5 2 5 1 4 59 4 58 4 57	13 49 13 47 13 46 13 45 13 43 13 42	17 36 5 44 17 36 5 44 17 35 5 44 17 35 5 44 17 34 5 45 17 34 5 45 17 33 5 45

Julian Day Number = 2484233.5, Delta T = 88.54 sec Ecliptic obliquity = $23^{\circ}25'30$, Nutation = $0^{\circ}00'05$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $25^{\circ}59'27$, Lahiri = $25^{\circ}06'27$

AUGUST 2089 00:00 UT

Audi	031 E00														00.0	0.
Day	Sid.t	0	D	ğ	φ	ď	4	ħ)∤(并	В	S.	v	Ç	ķ	Day
M 1	20 41 24	9 Ω 31'48	26 8 1	6Mp25	5924	2 ₽ 52	10 M 4	8Д58	11°R 7	22\$\Omega22	24°R29	11°R19	12 ₽ 26	8≈30	59547	M 1
T 2	20 45 21	10°29'13	9 Ⅲ 51	7°32	6°35	3°29	10° 9	9° 3	11 米 6	22°24	24 Y 28	11 ≏ 16	12°22	8°37	5°52	T 2
W 3	20 49 17	11°26'39	24° 9	8°37	7°46	4° 5	10°14	9° 8	11° 4	22°26	24°28	11°10	12°19	8°44	5°57	W 3
T 4	20 53 14	12°24'05	8954	9°40	8°57	4°42	10°19	9°13	11° 2	22°29	24°28	11° 3	12°16	8°50	6° 2	T 4
F 5	20 57 10	13°21'33	23°59	10°39	10° 8	5°19	10°24	9°18	11° 0	22°31	24°28	10°55	12°13	8°57	6° 7	F 5
S 6	21 1 7	14°19'02	9 Ω 15	11°36	11°19	5°56	10°29	9°22	10°58	22°33	24°27	10°46	12°10	9° 4	6°12	S 6
S 7	21 5 3	15°16'32	24°31	12°30	12°30	6°33	10°34	9°27	10°55	22°35	24°27	10°39	12° 7	9°11	6°17	S 7
M 8	21 9 0	16°14'03	9 m 36	13°21	13°41	7°10	10°40	9°32	10°53	22°37	24°27	10°33	12° 3	9°17	6°22	M 8
T 9	21 12 57	17°11'35	24°22	14° 9	14°53	7°48	10°46	9°36	10°51	22°40	24°27	10°30	12° 0	9°24	6°26	T 9
W10	21 16 53	18° 9'07	8 ≏ 43	14°53	16° 4	8°25	10°52	9°41	10°49	22°42	24°26	10°D29	11°57	9°31	6°31	W10
T 11	21 20 50	19° 6'41	22°36	15°33	17°16	9° 2	10°58	9°45	10°47	22°44	24°26	10°30	11°54	9°37	6°36	T 11
F 12	21 24 46	20° 4'15	6M 2	16°10	18°27	9°40	11° 4	9°49	10°45	22°46	24°25	10°31	11°51	9°44	6°40	F 12
S 13	21 28 43	21° 1'50	19° 4	16°43	19°39	10°17	11°10	9°53	10°43	22°49	24°25	10°R31	11°47	9°51	6°45	S 13
S 14	21 32 39	21°59'26	1 才 44	17°12	20°51	10°55	11°16	9°57	10°40	22°51	24°25	10°31	11°44	9°58	6°49	S 14
M15	21 36 36	22°57'03	14° 7	17°36	22° 2	11°33	11°23	10° 1	10°38	22°53	24°24	10°29	11°41	10° 4	6°54	M15
T 16	21 40 32	23°54'41	26°18	17°56	23°14	12°10	11°30	10° 5	10°36	22°55	24°24	10°24	11°38	10°11	6°58	T 16
W17	21 44 29	24°52'20	8 궁 19	18°10	24°26	12°48	11°37	10° 9	10°34	22°57	24°23	10°18	11°35	10°18	7° 3	W17
T 18	21 48 26	25°50'00	20°14	18°20	25°38	13°26	11°44	10°13	10°31	23° 0	24°23	10°11	11°32	10°24	7° 7	T 18
F 19	21 52 22	26°47'41	2 ≈ 7	18°R24	26°50	14° 4	11°51	10°16	10°29	23° 2	24°22	10° 3	11°28	10°31	7°11	F 19
S 20	21 56 19	27°45'23	13°59	18°23	28° 2	14°42	11°58	10°20	10°27	23° 4	24°22	9°55	11°25	10°38	7°15	S 20
S 21	22 0 15	28°43'07	25°51	18°17	29°14	15°20	12° 5	10°23	10°24	23° 6	24°21	9°48	11°22	10°44	7°20	S 21
M22	22 4 12	29°40'52	7) (47	18° 4	0 Ω 26	15°59	12°13	10°27	10°22	23° 9	24°21	9°42	11°19	10°51	7°24	M22
T 23	22 8 8	0 ₥ 38'38	19°47	17°46	1°39	16°37	12°21	10°30	10°20	23°11	24°20	9°38	11°16	10°58	7°28	T 23
W24	22 12 5	1°36'26	1 Y 53	17°22	2°51	17°15	12°28	10°33	10°17	23°13	24°19	9°36	11°13	11° 5	7°32	W24
T 25	22 16 1	2°34'15	14° 9	16°52	4° 3	17°54	12°36	10°36	10°15	23°15	24°19	9°D36	11° 9	11°11	7°36	T 25
F 26	22 19 58	3°32'07	26°36	16°17	5°16	18°32	12°44	10°39	10°13	23°17	24°18	9°37	11° 6	11°18	7°40	F 26
S 27	22 23 55	4°29'59	9 8 17	15°37	6°28	19°11	12°52	10°42	10°10	23°20	24°17	9°39	11° 3	11°25	7°44	S 27
S 28	22 27 51	5°27'54	22°17	14°51	7°41	19°50	13° 1	10°45	10° 8	23°22	24°17	9°40	11° 0	11°31	7°47	S 28
M29	22 31 48	6°25'50	5 Ⅱ 37	14° 2	8°53	20°28	13° 9	10°47	10° 6	23°24	24°16	9°R41	10°57	11°38	7°51	M29
T 30	22 35 44	7°23'49	19°20	13°10	10° 6	21° 7	13°18	10°50	10° 3	23°26	24°15	9°40	10°53	11°45	7°55	T 30
W31	22 39 41	8 m)21'49	39527	12 m) 15	11 Ω 19	21 ≏ 46	13 M 26	10 Ⅲ 52	10 ∺ 1	$23\Omega 28$	24 Υ 15	9 ₾ 38	10₽50	11≈51	7959	W31

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	decl	decl lat	decl la	at decl	lat d	ecl lat	decl	lat	decl	lat	decl	lat	decl lat	decl lat	decl	decl	decl	decl lat	
M 1 T 2	17n51 17 36	15n46 3s35 17 37 4 21	7 56	0 s42 22n15 0 52 22 14	1 1 1	0 0 25 0 0 25	13 53	1n 1	19 58	1 s50 1 51	8s 8 8 9	0 48	14 19 0	8 6 34 17 1	4 4 27	4 53		17 32 5 4	46
W 3 T 4 F 5	17 20 17 4 16 48	18 26 4 52 18 3 5 5 16 25 4 57	6 48	1 3 22 14 1 14 22 12 1 26 22 10	0 58 1 0 55 1 0 52 1		13 57	1 1 1 1 1 0	20 0	1 51 1 51 1 51	8 10 8 10 8 11		14 18 0 14 18 0 14 17 0	8 6 35 17 1	4 22		13 37 13 35 13 34	17 31 5 4	47
S 6 S 7	16 32 16 15		5 43	1 37 22 8 1 48 22 4	0 49 2 0 46 2	1 0 22	14 0	1 0	20 1	1 51 1 51	8 12 8 13	0 48	14 16 0 14 16 0				13 33 13 31		
M 8 T 9	15 58 15 40	5 31 2 38 0 56 1 26	4 42 4 13	2 0 22 0 2 11 21 56	0 43 2 0 40 2	32 0 20 48 0 19	14 4 14 6	1 0 0 59	20 2 20 3	1 51 1 51	8 14 8 14	0 48 0 48	14 15 0 14 14 0	8 6 37 17 1 8 6 37 17 1	6 4 11 6 4 9	4 46 4 45	13 30 13 29	17 28 5 4 17 28 5 4	48 49
W10 T 11 F 12 S 13		-	3 19 2 54	2 23 21 51 2 34 21 45 2 46 21 39 2 57 21 32		34 0 17	9 14 8 8 14 10 7 14 12 5 14 15	0 59 0 59 0 59 0 58	20 4 20 4	1 51 1 52 1 52 1 52	8 15 8 16 8 17 8 18	0 49 0 49	14 13 0	8 6 38 17 1 8 6 39 17 1	7 4 9 7 4 10	4 42 4 41	13 27 13 26 13 25 13 23	17 27 5 4 17 26 5 5	49 50
S 14 M15 T 16 W17 T 18 F 19 S 20	13 52 13 33 13 13 12 54 12 34	17 54 4 36 18 24 4 59 18 3 5 8 16 54 5 3 15 2 4 46	1 51 1 33 1 18 1 5 0 55	3 8 21 24 3 19 21 16 3 29 21 7 3 40 20 58 3 49 20 48 3 58 20 37 4 7 20 26		20 0 15 36 0 14 51 0 13 7 0 12 22 0 12	14 21 14 24	0 58 0 58 0 58 0 58 0 57 0 57	20 5 20 6 20 6 20 7 20 7	1 52 1 52 1 52 1 52 1 52 1 53 1 53	8 19 8 19 8 20 8 21 8 22 8 23 8 24			8 6 40 17 1 8 6 40 17 1 8 6 41 17 1 8 6 41 17 1 8 6 42 17 1	8 4 9 8 4 7 9 4 5 9 4 2 9 3 59	4 37 4 36 4 35 4 33 4 32	13 19 13 18	17 24 5 5 17 24 5 5 17 23 5 5 17 22 5 5 17 22 5 5	51 51 52 52 52
S 21 M22 T 23 W24 T 25 F 26 S 27	11 55 11 35 11 14 10 54 10 33 10 12 9 51	9 31 3 35 6 6 2 44 2 25 1 46 1n24 0 42 5 12 0s25 8 50 1 31 12 8 2 35	0 44 0 42 0 44 0 49 0 58 1 10	4 7 20 26 4 14 20 14 4 21 20 2 4 27 19 49 4 31 19 36 4 35 19 22 4 36 19 7 4 36 18 52	0 4 5 0 1 6 0n 2 6 0 5 6 0 8 6 0 11 7	53 0 10 8 0 9 24 0 9 39 0 8 54 0 7 10 0 7	0 14 33 0 14 36 0 14 38 0 14 38 14 41 7 14 44	0 57 0 57 0 56 0 56 0 56 0 56 0 56 0 56	20 8 20 8 20 8 20 9 20 9 20 9	1 53 1 53 1 53 1 53 1 53 1 54 1 54	8 25 8 26 8 26 8 27 8 28 8 29 8 30	0 49 0 49 0 49 0 49 0 49 0 49	14 6 0 14 5 0 14 4 0 14 3 0 14 3 0 14 2 0	8 6 43 17 2 8 6 43 17 2 8 6 44 17 2 8 6 44 17 2 8 6 45 17 2 8 6 45 17 2	0 3 53 0 3 50 1 3 49 1 3 48 1 3 48 1 3 49	4 30 4 28 4 27 4 26 4 25 4 23 4 22	13 13 13 11 13 10 13 8 13 7 13 6	17 21 5 5	53 54 54 55 55 56
S 28 M29 T 30 W31	9 30 9 9 8 47	14 54 3 32 16 58 4 19 18 7 4 54	1 44 2 6 2 31	4 35 18 36 4 31 18 20 4 26 18 3 4s19 17n46	0 17 7 0 19 7 0 22 8	40 0 5 56 0 4 11 0 4	14 51 14 54	0 55 0 55 0 55	20 10 20 10	1 54 1 54 1 54 1 54	8 31 8 32 8 33 8 s34	0 49 0 49 0 49	14 1 0	8 6 46 17 2 8 6 47 17 2 8 6 47 17 2	2 3 50 2 3 50 2 3 50 2 3 50	4 21 4 20 4 18	13 3 13 2 13 0	17 16 5 5 17 15 5 5 17 15 5 5 17n14 5 s5	56 57 57

Julian Day Number = 2484264.5, Delta T = 88.58 sec Ecliptic obliquity = 23°25'30, Nutation = $0^{\circ}00'05$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $25^{\circ}59'31$, Lahiri = $25^{\circ}06'31$

SEPTEMBER 2089 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ)Å(¥	Р	ß	Ω	Ç	ę,	Day
T 1	22 43 37	9 m) 19'51	17957	11°R19	12 Ω 32	22 Ω 25	13 M .35	10 Ⅲ 55	9°R58	23 \Omega 30	24°R14	9°R35	10 ≏ 47	11≈58	8 9 2	T 1
F 2	22 47 34	10°17'55	2 Ω 46	10 m 22	13°45	23° 4	13°44	10°57	9 米 56	23°33	24 Y 13	9 ₾ 31	10°44	12° 5	8° 6	F 2
S 3	22 51 30	11°16'01	17°48	9°26	14°57	23°43	13°53	10°59	9°54	23°35	24°12	9°27	10°41	12°12	8° 9	S 3
S 4	22 55 27	12°14'08	2 m 53	8°33	16°10	24°22	14° 2	11° 1	9°51	23°37	24°11	9°24	10°38	12°18	8°12	S 4
M 5	22 59 24	13°12'18	17°52	7°43	17°23	25° 2	14°11	11° 3	9°49	23°39	24°11	9°21	10°34	12°25	8°16	M 5
T 6	23 3 20	14°10'29	2 ₽ 37	6°57	18°37	25°41	14°20	11° 5	9°46	23°41	24°10	9°D20	10°31	12°32	8°19	T 6
W 7	23 7 17	15° 8'41	17° 1	6°17	19°50	26°21	14°30	11° 7	9°44	23°43	24° 9	9°20	10°28	12°38	8°22	W 7
T 8	23 11 13	16° 6'55	1 M 0	5°44	21° 3	27° 0	14°39	11° 8	9°42	23°45	24° 8	9°21	10°25	12°45	8°25	T 8
F 9	23 15 10	17° 5'11	14°33	5°18	22°16	27°40	14°49	11°10	9°39	23°47	24° 7	9°23	10°22	12°52	8°28	F 9
S 10	23 19 6	18° 3'28	27°40	5° 0	23°29	28°19	14°59	11°11	9°37	23°49	24° 6	9°24	10°18	12°58	8°31	S 10
S 11	23 23 3	19° 1'47	10 ∡ 24	4°51	24°43	28°59	15° 8	11°13	9°35	23°51	24° 5	9°25	10°15	13° 5	8°34	S 11
M12	23 26 59	20° 0'07	22°49	4°D51	25°56	29°39	15°18	11°14	9°32	23°54	24° 5	9°R25	10°12	13°12	8°37	M12
T 13	23 30 56	20°58'29	5 る 0	5° 0	27°10	0 M ₊19	15°28	11°15	9°30	23°56	24° 4	9°24	10° 9	13°19	8°40	T 13
W14	23 34 52	21°56'52	16°59	5°18	28°23	0°59	15°38	11°16	9°27	23°58	24° 3	9°23	10° 6	13°25	8°43	W14
T 15	23 38 49	22°55'17	28°53	5°45	29°37	1°38	15°49	11°17	9°25	24° 0	24° 2	9°21	10° 3	13°32	8°45	T 15
F 16	23 42 46	23°53'44	10≈44	6°22	0 m 50	2°19	15°59	11°18	9°23	24° 2	24° 1	9°19	9°59	13°39	8°48	F 16
S 17	23 46 42	24°52'12	22°37	7° 6	2° 4	2°59	16° 9	11°18	9°21	24° 4	24° 0	9°16	9°56	13°45	8°51	S 17
S 18	23 50 39	25°50'42	4) (33	7°59	3°18	3°39	16°20	11°19	9°18	24° 6	23°59	9°14	9°53	13°52	8°53	S 18
M19	23 54 35	26°49'14	16°35	8°59	4°31	4°19	16°30	11°19	9°16	24° 7	23°58	9°13	9°50	13°59	8°55	M19
T 20	23 58 32	27°47'47	28°46	10° 6	5°45	5° 0	16°41	11°20	9°14	24° 9	23°57	9°12	9°47	14° 5	8°58	T 20
W21	0 2 28	28°46'23	11 ° 6	11°20	6°59	5°40	16°52	11°20	9°12	24°11	23°56	9°D12	9°44	14°12	9° 0	W21
T 22	0 6 25	29°45'00	23°37	12°40	8°13	6°20	17° 2	11°20	9° 9	24°13	23°55	9°12	9°40	14°19	9° 2	T 22
F 23	0 10 21	0 ჲ 43'40	6 8 20	14° 5	9°27	7° 1	17°13	11°R20	9° 7	24°15	23°54	9°13	9°37	14°26	9° 4	F 23
S 24	0 14 18	1°42'22	19°17	15°34	10°41	7°42	17°24	11°20	9° 5	24°17	23°53	9°14	9°34	14°32	9° 6	S 24
S 25	0 18 15	2°41'06	2Ⅲ28	17° 7	11°55	8°22	17°35	11°20	9° 3	24°19	23°52	9°14	9°31	14°39	9°8	S 25
M26	0 22 11	3°39'52	15°55	18°44	13° 9	9° 3	17°46	11°19	9° 1	24°21	23°51	9°15	9°28	14°46	9°10	M26
T 27	0 26 8	4°38'40	29°39	20°24	14°23	9°44	17°58	11°19	8°59	24°22	23°49	9°R15	9°24	14°52	9°12	T 27
W28	0 30 4	5°37'31	13938	22° 5	15°37	10°25	18° 9	11°18	8°57	24°24	23°48	9°15	9°21	14°59	9°13	W28
T 29	0 34 1	6°36'24	27°54	23°49	16°51	11° 6	18°20	11°18	8°55	24°26	23°47	9°15	9°18	15° 6	9°15	T 29
F 30	0 37 57	7 ≏ 35'20	$12\Omega_{22}$	25 m 34	18 m) 5	11 ML 47	18 M .32	11 I I17	8 ∺ 53	$24\Omega 28$	23 Y 46	9 ≏ 15	9 ≏ 15	15≈12	9917	F 30

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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 de	ecl decl lat
T 1 F 2 S 3	8n 4 7 42 7 20		3n28 4s1 4 0 3 5 4 32 3 4	8 17 10 0 30	8 s41 On 2 8 56 O 1 9 11 O 1	15 s 3 0n54 15 5 0 54 15 8 0 54	20 11 1 55	8 s 35 0 s 49 8 36 0 49 8 36 0 49	13 57 0 18	6s48 17s23 6 49 17 23 6 49 17 23	3 46	4 15 12	57 17n13 5 s 5 8 56 17 12 5 5 9 55 17 12 5 5 9
S 4 M 5 T 6 W 7 T 8	6 58 6 36 6 13 5 51 5 28	7 32 3 7 3 1 1 55 1 s 36 0 37 6 2 0 n 42 10 0 1 57	5 6 3 3 5 39 3 1 6 12 2 5 6 43 2 4 7 13 2 2	5 16 13 0 38 8 15 52 0 40 0 15 32 0 42	9 27 0 0 9 42 0s 1 9 57 0 1 10 11 0 2 10 26 0 3		20 11 1 55 20 11 1 55 20 11 1 55	8 37 0 49 8 38 0 49 8 39 0 49 8 40 0 49 8 41 0 49	13 54 0 18 13 54 0 18	6 50 17 24 6 50 17 24 6 51 17 24 6 51 17 24 6 52 17 25	3 42 3 42 3 42	4 11 12	51 17 10 6 1 49 17 9 6 1
F 9 S 10	5 6 4 43	13 18 3 2 15 48 3 56	7 40 2	2 14 49 0 47	10 41 0 3 10 56 0 4	15 26 0 53		8 42 0 49		6 52 17 25 6 53 17 25	3 43	4 6 12	
S 11 M12 T 13 W14 T 15 F 16 S 17	4 20 3 57 3 35 3 12 2 48 2 25 2 2	18 12 5 3 18 5 5 15 17 10 5 13 15 31 4 58	8 44 1 8 58 0 4 9 8 0 2 9 14 0 1 9 16 0n	4 13 43 0 54 6 13 19 0 56 8 12 56 0 58 1 12 32 1 0 6 12 8 1 2	11 26 0 5 11 40 0 6 11 55 0 7 12 9 0 7 12 24 0 8	15 35 0 52 15 38 0 52 15 41 0 52 15 44 0 52 15 47 0 52	20 12 1 56 20 12 1 56 20 12 1 57	8 44 0 49 8 44 0 49 8 45 0 49 8 46 0 49 8 47 0 49 8 48 0 49 8 49 0 49	13 50 0 18 13 50 0 18 13 49 0 18 13 48 0 18	6 53 17 25 6 54 17 26 6 54 17 26 6 55 17 26 6 55 17 26 6 56 17 26 6 56 17 26	3 44 3 43 3 42 3 41	4 4 12 4 2 12 4 1 12 4 0 12 3 59 12 3 57 12 3 56 12	41 17 5 6 5 39 17 4 6 5 38 17 3 6 6 37 17 3 6 6
S 18 M19 T 20 W21 T 22 F 23 S 24		7 2 3 0 3 25 2 2 0n23 0 58 4 14 0s11 7 56 1 19 11 21 2 25 14 15 3 25	9 7 0 3 8 56 0 4 8 41 0 5 8 23 1 1 8 1 1 1 7 36 1 2 7 8 1 3	8 10 53 1 7 9 10 28 1 9 0 10 2 1 11 9 9 36 1 12 7 9 10 1 14	13 7 0 10 13 21 0 11 13 35 0 11 13 49 0 12 14 3 0 13	16 3 0 51 16 6 0 51 16 10 0 50	20 11 1 57 20 11 1 57 20 11 1 57 20 11 1 58	8 50 0 49 8 50 0 49 8 51 0 49 8 52 0 49 8 53 0 49 8 54 0 49 8 55 0 49	13 46 0 18 13 45 0 18 13 44 0 18 13 44 0 18 13 43 0 18	6 57 17 27 6 57 17 27 6 58 17 27 6 58 17 27 6 59 17 27 6 59 17 27 7 0 17 28	3 39 3 39 3 39 3 39 3 39	3 51 12 3 50 12	32 17 0 6 8 31 17 0 6 8 29 16 59 6 9 28 16 58 6 10 27 16 58 6 10
S 25 M26 T 27 W28 T 29 F 30	1 4 1 27 1 51 2 14 2 37 3 s 1	17 51 4 52 18 13 5 13	6 37 1 4 6 3 1 4 5 28 1 4 4 50 1 5 4 10 1 5 3n29 1n5	4 7 49 1 18 8 7 22 1 19 1 6 54 1 20 2 6 26 1 21	14 44 0 15 14 58 0 15 15 11 0 16 15 25 0 17	16 22 0 50 16 26 0 50 16 29 0 50	20 10 1 58 20 10 1 58 20 10 1 58	8 55 0 49 8 56 0 48 8 57 0 48 8 58 0 48 8 58 0 48 8 59 0 848	13 41 0 19 13 41 0 19 13 40 0 19	7 0 17 28 7 1 17 28 7 1 17 28 7 2 17 28 7 2 17 28 7 2 17 28 7 3 17 s28	3 40 3 40 3 40 3 40	3 45 12 3 44 12 3 42 12 3 41 12	24 16 56 6 11 22 16 56 6 12 21 16 55 6 12 20 16 54 6 13 18 16 53 6 14 17 16n53 6s14

Julian Day Number = 2484295.5, Delta T = 88.61 sec Ecliptic obliquity = $23^{\circ}25'31$, Nutation = $0^{\circ}00'04$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $25^{\circ}59'35$, Lahiri = $25^{\circ}06'36$

OCTOBER 2089 00:00 UT

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Day	Sid.t	0	D	ğ	ρ	ð	4	ħ)∤(并	В	រា	ນ	Ç	ķ	Day
S 1	0 41 54	8 ≏ 34'17	26₽59	27 Mg 20	19 m /20	12 M 28	18 M .43	11°R16	8°R51	24\$\Omega29\$	23°R45	9°R14	9 ≙ 12	15 ≈ 19	99518	S 1
S 2	0 45 50	9°33'17	11 m 40	29° 7	20°34	13° 9	18°55	11 II 15	8) (49	24°31	23 Y 44	9°D14	9° 9	15°26	9°19	S 2
M 3	0 49 47	10°32'19	26°19	0 ჲ 55	21°48	13°50	19° 6	11°14	8°47	24°33	23°43	9 ₽ 14	9° 5	15°33	9°21	M 3
T 4	0 53 44	11°31'23	10 ≏ 49	2°42	23° 3	14°32	19°18	11°13	8°45	24°34	23°42	9°R15	9° 2	15°39	9°22	T 4
W 5	0 57 40	12°30'29	25° 4	4°30	24°17	15°13	19°30	11°11	8°43	24°36	23°41	9°14	8°59	15°46	9°23	W 5
T 6	1 1 37	13°29'38	8 M .59	6°18	25°32	15°55	19°42	11°10	8°41	24°38	23°40	9°14	8°56	15°53	9°24	T 6
F 7	1 5 33	14°28'48	22°32	8° 5	26°46	16°36	19°53	11° 9	8°39	24°39	23°38	9°14	8°53	15°59	9°25	F 7
S 8	1 9 30	15°28'00	5 √ 42	9°52	28° 1	17°18	20° 5	11° 7	8°38	24°41	23°37	9°13	8°50	16° 6	9°26	S 8
S 9	1 13 26	16°27'13	18°30	11°39	29°15	17°59	20°17	11° 5	8°36	24°42	23°36	9°12	8°46	16°13	9°27	S 9
M10	1 17 23	17°26'29	0 궁 59	13°25	0 ჲ 30	18°41	20°30	11° 3	8°34	24°44	23°35	9°11	8°43	16°19	9°27	M10
T 11	1 21 19	18°25'46	13°11	15°10	1°45	19°23	20°42	11° 1	8°32	24°45	23°34	9°D11	8°40	16°26	9°28	T 11
W12	1 25 16	19°25'05	25°11	16°55	2°59	20° 5	20°54	10°59	8°31	24°47	23°33	9°11	8°37	16°33	9°29	W12
T 13	1 29 12	20°24'26	7 ≈ 5	18°40	4°14	20°47	21° 6	10°57	8°29	24°48	23°32	9°11	8°34	16°39	9°29	T 13
F 14	1 33 9	21°23'49	18°56	20°23	5°29	21°29	21°18	10°55	8°28	24°50	23°30	9°12	8°30	16°46	9°29	F 14
S 15	1 37 6	22°23'13	0) 49	22° 6	6°43	22°11	21°31	10°53	8°26	24°51	23°29	9°14	8°27	16°53	9°30	S 15
S 16	1 41 2	23°22'39	12°49	23°48	7°58	22°53	21°43	10°50	8°25	24°52	23°28	9°15	8°24	17° 0	9°30	S 16
M17	1 44 59	24°22'07	24°58	25°30	9°13	23°35	21°56	10°48	8°23	24°54	23°27	9°16	8°21	17° 6	9°30	M17
T 18	1 48 55	25°21'37	7 Υ 19	27°11	10°28	24°18	22° 8	10°45	8°22	24°55	23°26	9°R16	8°18	17°13	9°R30	T 18
W19	1 52 52	26°21'09	19°55	28°51	11°43	25° 0	22°21	10°42	8°20	24°56	23°25	9°16	8°15	17°20	9°30	W19
T 20	1 56 48	27°20'43	2846	0 M .31	12°57	25°42	22°33	10°40	8°19	24°58	23°24	9°15	8°11	17°26	9°30	T 20
F 21	2 0 45	28°20'19	15°52	2° 9	14°12	26°25	22°46	10°37	8°18	24°59	23°22	9°13	8° 8	17°33	9°30	F 21
S 22	2 4 41	29°19'57	29°13	3°48	15°27	27° 7	22°58	10°34	8°16	25° 0	23°21	9°10	8° 5	17°40	9°30	S 22
S 23	2 8 38	0 M 19'37	12 Ⅱ 47	5°25	16°42	27°50	23°11	10°31	8°15	25° 1	23°20	9° 7	8° 2	17°46	9°29	S 23
M24	2 12 35	1°19'20	26°32	7° 3	17°57	28°33	23°24	10°28	8°14	25° 2	23°19	9° 4	7°59	17°53	9°29	M24
T 25	2 16 31	2°19'04	109527	8°39	19°12	29°15	23°37	10°24	8°13	25° 3	23°18	9° 2	7°55	18° 0	9°28	T 25
W26	2 20 28	3°18'51	24°29	10°15	20°27	29°58	23°49	10°21	8°12	25° 4	23°17	9° 0	7°52	18° 6	9°28	W26
T 27	2 24 24	4°18'40	8 Ω 38	11°50	21°42	0 ∡ 741	24° 2	10°17	8°11	25° 5	23°16	9°D 0	7°49	18°13	9°27	T 27
F 28	2 28 21	5°18'32	22°50	13°25	22°57	1°24	24°15	10°14	8°10	25° 6	23°14	9° 1	7°46	18°20	9°26	F 28
S 29	2 32 17	6°18'25	7 Mp 4	15° 0	24°12	2° 7	24°28	10°10	8° 9	25° 7	23°13	9° 2	7°43	18°27	9°25	S 29
S 30	2 36 14	7°18'21	21°18	16°34	25°28	2°50	24°41	10° 7	8° 8	25° 8	23°12	9° 4	7°40	18°33	9°24	S 30
M31	2 40 10	8 M .18'19	5 ≏ 29	18 M 7	26 ≏ 43	3 ₹ 33	24M54	10耳 3	8) 7	25 Ω 9	23 Y 11	9°R 5	7 ≏ 36	18 ≈ 40	9 9 23	M31

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S 1	3 s24	9n10 3s34	2n47 1n5	3 5n30 1n23	15 s51 0 s18	16s36 0n49	20n 9 1s59	9s 0 0s48	13n39 0n19	7s 3 17s28	3 s40	3 s39 1	2s15	16n52 6s15
S 2	3 47	4 55 2 27	2 4 1 5	2 5 2 1 24	16 4 0 19	16 39 0 49	20 9 1 59	9 1 0 48	13 38 0 19	7 4 17 28	3 40	3 37 1	2 14	16 51 6 15
M 3	4 10	0 22 1 11	1 20 1 5	1 4 33 1 25	16 17 0 19	16 42 0 49	20 9 1 59	9 1 0 48	13 38 0 19	7 4 17 29	3 40	3 36 1	2 12	16 51 6 16
T 4	4 33	4s 9 0n 9			16 30 0 20			9 2 0 48		7 4 17 29	3 40		2 11	
W 5	4 56	8 21 1 27	0s10 1 4			16 49 0 49		9 3 0 48		7 5 17 29	3 40			16 49 6 17
T 6		11 59 2 38			16 56 0 21	16 52 0 49		9 3 0 48		7 5 17 29	3 39			16 49 6 18
F 7		14 53 3 38	_		17 8 0 22					7 6 17 29	3 39	3 31 1		16 48 6 18
S 8	6 5	16 54 4 25	2 27 1 3	5 2 9 1 28	17 21 0 22	16 59 0 48	20 7 2 0	9 5 0 48	13 35 0 19	7 6 17 29	3 39	3 30 1	2 5	16 47 6 19
S 9	6 28	18 0 4 57	3 12 1 3	1 1 39 1 29	17 33 0 23	17 2 0 48	20 7 2 0	9 5 0 48	13 34 0 19	7 7 17 29	3 39	3 29 1	2 4	16 47 6 20
M10	6 51	18 11 5 14	3 58 1 2	6 1 10 1 29	17 45 0 23	17 5 0 48	20 6 2 0	9 6 0 48	13 34 0 19	7 7 17 29	3 38	3 27 1	2 2	16 46 6 20
T 11	7 13	17 32 5 16	4 44 1 2	1 0 41 1 29	17 57 0 24	17 9 0 48	20 6 2 0	9 6 0 48	13 33 0 19	7 8 17 29	3 38	3 26 1	2 1	16 45 6 21
W12	7 36	16 5 5 5	5 29 1 1	6 0 11 1 30	18 9 0 25	17 12 0 48	20 6 2 0	9 7 0 48	13 33 0 19	7 8 17 29	3 38	3 25 1	1 59	16 45 6 21
T 13	7 58	13 58 4 40	6 14 1 1	0 0s18 1 30	18 21 0 25	17 15 0 48	20 5 2 0	9 8 0 48	13 33 0 19	7 8 17 29	3 38	3 24 1	1 58	16 44 6 22
F 14	8 20	11 16 4 4	6 58 1	4 0 48 1 30	18 32 0 26	17 19 0 48		9 8 0 48	13 32 0 19	7 9 17 29	3 39	3 22 1		
S 15	8 43	8 6 3 17	7 42 0 5	8 1 17 1 30	18 44 0 26	17 22 0 47	20 4 2 1	9 9 0 48	13 32 0 19	7 9 17 29	3 39	3 21 1	1 55	16 43 6 23
S 16	9 5	4 34 2 21	8 26 0 5	2 1 47 1 30	18 55 0 27	17 25 0 47	20 4 2 1	9 9 0 48	13 31 0 19	7 10 17 29	3 40	3 20 1	1 54	16 42 6 24
M17	9 26	0 48 1 18	9 9 0 4	6 2 16 1 30	19 6 0 28	17 29 0 47	20 4 2 1	9 10 0 48	13 31 0 19	7 10 17 29	3 40	3 19 1	-	-
T 18	9 48	3n 4 0 11		9 2 46 1 30		17 32 0 47	20 3 2 1	9 10 0 48	13 30 0 19	7 10 17 29	3 40	3 17 1	1 51	16 41 6 25
W19	10 10	6 53 0s59	10 33 0 3			17 35 0 47		9 11 0 48	13 30 0 19	7 11 17 29	3 40	3 16 1		
T 20		10 27 2 6				17 39 0 47	-	9 11 0 48		7 11 17 29	3 40	3 15 1		
F 21		13 34 3 8				17 42 0 47	-			7 12 17 29	3 39	3 14 1		
S 22	11 14	16 2 4 2	12 34 0 1	3 4 44 1 28	20 0 0 30	17 45 0 47	20 1 2 1	9 12 0 48	13 29 0 19	7 12 17 29	3 38	3 12 1	1 45	16 39 6 27
S 23	11 35	17 39 4 42	13 14 0	6 5 13 1 28	20 10 0 31	17 49 0 46	20 1 2 1	9 13 0 48	13 28 0 19	7 12 17 29	3 37	3 11 1	1 43	16 38 6 28
M24	11 56	18 16 5 7	13 52 0s	1 5 42 1 27	20 20 0 32	17 52 0 46	20 0 2 1	9 13 0 48	13 28 0 19	7 13 17 29	3 36	3 10 1	1 42	16 38 6 29
T 25	12 16	17 47 5 14	14 30 0	8 6 11 1 26	20 30 0 32	17 55 0 46	19 59 2 1	9 13 0 48	13 28 0 19	7 13 17 29	3 35	3 9 1	1 40	16 37 6 29
W26	12 37	16 14 5 3	15 7 0 1			17 58 0 46			13 27 0 19	7 13 17 29	3 34	3 7 1	1 39	16 36 6 30
T 27			15 43 0 2		20 49 0 33					7 14 17 29	3 34		1 37	
F 28		10 19 3 47								7 14 17 28	3 34	-	1 36	
S 29	13 37	6 20 2 47	16 53 0 3	5 8 6 1 23	21 8 0 34	18 8 0 46	19 57 2 2	9 15 0 48	13 26 0 19	7 14 17 28	3 35	3 4 1	1 34	16 35 6 32
S 30	13 57	1 58 1 36	17 26 0 4	1 8 34 1 22	21 17 0 35	18 11 0 46	19 57 2 2	9 15 0 48	13 26 0 19	7 15 17 28	3 35	3 2 1	1 33	16 34 6 32
M31	14s16	2 s29 0 s20	17s59 0s4	8 9s 2 1n21	21 s26 0 s35	18s15 0n46	19n56 2s 2	9s15 0s48	13n26 0n19	7s15 17s28	3 s36	3 s 1 1	1 s32	16n34 6 s33

Julian Day Number = 2484325.5, Delta T = 88.65 sec Ecliptic obliquity = 23°25'31, Nutation = $0^{\circ}00'02$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $25^{\circ}59'39$, Lahiri = $25^{\circ}06'40$

NOVEMBER 2089 00:00 UT

Day	Sid.t	0	D	ğ	·	♂	4	ħ)Å(卉	Р	រា	Ω	Ç	ķ	Day
T 1	2 44 7	9 M .18'19	19 ₾ 33	19 M .40	27 ♀ 58	4 ₹ 16	25 m 7	9°R59	8°R 6	25 Ω 10	23°R10	9°R 4	7 쇼 33	18 ≈ 47	9°R22	T 1
W 2	2 48 4	10°18'21	3M27	21°12	29°13	5° 0	25°20	9 Ⅱ 55	8) 6	25°11	23 Y 9	9 ₾ 2	7°30	18°53	9 9 21	W 2
T 3	2 52 0	11°18'25	17° 7	22°44	0 M 28	5°43	25°33	9°51	8° 5	25°12	23° 8	8°59	7°27	19° 0	9°20	T 3
F 4	2 55 57	12°18'31	0 ₮ 30	24°16	1°43	6°26	25°46	9°47	8° 4	25°13	23° 7	8°54	7°24	19° 7	9°18	F 4
S 5	2 59 53	13°18'38	13°35	25°47	2°59	7°10	25°59	9°43	8° 4	25°13	23° 6	8°48	7°21	19°13	9°17	S 5
S 6	3 3 50	14°18'48	26°21	27°18	4°14	7°53	26°13	9°39	8° 3	25°14	23° 5	8°42	7°17	19°20	9°15	S 6
M 7	3 7 46	15°18'59	8 궁 50	28°48	5°29	8°37	26°26	9°35	8° 3	25°15	23° 4	8°36	7°14	19°27	9°14	M 7
T 8	3 11 43	16°19'11	21° 3	0 ∡ 18	6°44	9°21	26°39	9°31	8° 2	25°15	23° 3	8°32	7°11	19°33	9°12	T 8
W 9	3 15 39	17°19'25	3≈ 4	1°48	8° 0	10° 4	26°52	9°26	8° 2	25°16	23° 1	8°29	7° 8	19°40	9°10	W 9
T 10	3 19 36	18°19'40	14°57	3°17	9°15	10°48	27° 5	9°22	8° 2	25°17	23° 0	8°D27	7° 5	19°47	9° 8	T 10
F 11	3 23 33	19°19'57	26°47	4°45	10°30	11°32	27°19	9°17	8° 1	25°17	22°59	8°28	7° 1	19°53	9° 7	F 11
S 12	3 27 29	20°20'16	8)(40	6°13	11°46	12°16	27°32	9°13	8° 1	25°18	22°58	8°29	6°58	20° 0	9° 5	S 12
S 13	3 31 26	21°20'35	20°40	7°41	13° 1	13° 0	27°45	9° 8	8° 1	25°18	22°57	8°31	6°55	20° 7	9° 3	S 13
M14	3 35 22	22°20'57	2 Υ 52	9° 8	14°16	13°44	27°59	9° 4	8° 1	25°19	22°56	8°R32	6°52	20°14	9° 0	M14
T 15	3 39 19	23°21'19	15°20	10°34	15°32	14°28	28°12	8°59	8° 0	25°19	22°55	8°32	6°49	20°20	8°58	T 15
W16	3 43 15	24°21'43	28° 8	12° 0	16°47	15°12	28°25	8°54	8° 0	25°20	22°55	8°30	6°46	20°27	8°56	W16
T 17	3 47 12	25°22'09	11 8 17	13°25	18° 2	15°56	28°38	8°50	8°D 0	25°20	22°54	8°26	6°42	20°34	8°54	T 17
F 18	3 51 8	26°22'36	24°46	14°50	19°18	16°40	28°52	8°45	8° 0	25°20	22°53	8°19	6°39	20°40	8°51	F 18
S 19	3 55 5	27°23'05	8 Ⅱ 33	16°13	20°33	17°25	29° 5	8°40	8° 1	25°21	22°52	8°12	6°36	20°47	8°49	S 19
S 20	3 59 2	28°23'35	22°36	17°36	21°48	18° 9	29°18	8°35	8° 1	25°21	22°51	8° 3	6°33	20°54	8°46	S 20
M21	4 2 58	29°24'07	69549	18°58	23° 4	18°53	29°32	8°31	8° 1	25°21	22°50	7°55	6°30	21° 0	8°44	M21
T 22	4 6 55	0 ₮ 24'41	21° 7	20°18	24°19	19°38	29°45	8°26	8° 1	25°21	22°49	7°48	6°27	21° 7	8°41	T 22
W23	4 10 51	1°25'16	5 Ω 25	21°38	25°35	20°22	29°58	8°21	8° 1	25°21	22°48	7°42	6°23	21°14	8°38	W23
T 24	4 14 48	2°25'54	19°40	22°55	26°50	21° 7	0 ∡ 12	8°16	8° 2	25°21	22°47	7°40	6°20	21°20	8°35	T 24
F 25	4 18 44	3°26'32	3 m 49	24°12	28° 5	21°52	0°25	8°11	8° 2	25°22	22°46	7°D39	6°17	21°27	8°32	F 25
S 26	4 22 41	4°27'13	17°50	25°26	29°21	22°36	0°38	8° 6	8° 3	25°22	22°46	7°39	6°14	21°34	8°30	S 26
S 27	4 26 37	5°27'55	1 ≏ 44	26°38	0 ₮ 36	23°21	0°52	8° 1	8° 3	25°R22	22°45	7°R40	6°11	21°40	8°27	S 27
M28	4 30 34	6°28'39	15°29	27°48	1°52	24° 6	1° 5	7°56	8° 4	25°22	22°44	7°40	6° 7	21°47	8°23	M28
T 29	4 34 31	7°29'24	29° 6	28°54	3° 7	24°51	1°18	7°51	8° 4	25°22	22°43	7°38	6° 4	21°54	8°20	T 29
W30	4 38 27	8 ₮ 30'11	12 M .34	29 × 758	4 ₹ 23	25 ∡ ³36	1 ₹ 32	7 Ⅱ 47	8 ∀ 5	25 Ω 21	22 Y 42	7 ₾ 33	6 º 1	22≈ 0	8 ॐ 17	W30

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F 4 S 5		16 15 4 4	20 0 1 1 20 29 1 1	3 10 52 1 16 9 11 19 1 15	21 59 0 37 22 7 0 38	18 27 0 45 18 31 0 45	19 54 2 2 19 53 2 2	9 16 0 47 9 16 0 47		7 16 17 28 7 16 17 28 7 16 17 28	3 32	2 56		16 32 6 35
S 6 M 7 T 8	16 7 16 25 16 43	17 58 5 11 16 47 5 4	20 56 1 2 21 21 1 3 21 46 1 3	1 12 12 1 12 6 12 38 1 11	22 22 0 39 22 29 0 40	18 40 0 45	19 52 2 2 19 51 2 2	9 17 0 47 9 17 0 47	13 24 0 19	7 16 17 27 7 17 17 27 7 17 17 27	3 23	2 52 2 51	11 23 11 21 11 20	16 31 6 37 16 30 6 37
W 9 T 10 F 11 S 12	17 0 17 16 17 33 17 49	12 21 4 10 9 20 3 27	22 10 1 4 22 33 1 4 22 55 1 5 23 15 1 5	17 13 30 1 8 12 13 55 1 6	22 43 0 41 22 50 0 41	18 43 0 45 18 46 0 45 18 49 0 45 18 52 0 45	19 50 2 2 19 49 2 2	9 17 0 47 9 17 0 47		7 17 17 27 7 17 17 27 7 18 17 27 7 18 17 26	3 22 3 21 3 21 3 22	2 48 2 47	11 18 11 17 11 15 11 14	16 29 6 38 16 29 6 39
S 13 M14 T 15 W16 T 17 F 18 S 19	18 5 18 21 18 36 18 51 19 6 19 20	1n36 0 31 5 28 0s37 9 11 1 44 12 33 2 47	23 53 2 24 10 2 1 24 26 2 1 24 40 2 1 24 53 2 2	6 15 8 1 1 0 15 32 0 59 4 15 56 0 57 7 16 18 0 55 0 16 41 0 53	23 8 0 42 23 14 0 43 23 19 0 43 23 25 0 44 23 30 0 44	19 5 0 44 19 8 0 44 19 11 0 44	19 47 2 2 19 46 2 2 19 46 2 2 19 45 2 2	9 17 0 47 9 17 0 47 9 17 0 47 9 17 0 47 9 17 0 47	13 23 0 20	7 18 17 26 7 18 17 26 7 18 17 26 7 18 17 26 7 19 17 26 7 19 17 25 7 19 17 25		2 43 2 42	11 11 11 9 11 8 11 6 11 5	16 27 6 41
S 20 M21 T 22 W23 T 24 F 25	19 47 20 1 20 13 20 26	18 18 4 55 18 9 5 6 16 51 4 58 14 31 4 32 11 18 3 48 7 27 2 51	25 16 2 2 25 25 2 2 25 33 2 2 25 39 2 3 25 45 2 3	16 17 25 0 49 18 17 46 0 47 19 18 6 0 45 10 18 27 0 43 11 18 46 0 41 11 19 5 0 39	23 39 0 45 23 43 0 46 23 47 0 46 23 51 0 47 23 55 0 47 23 58 0 48	19 16 0 44 19 19 0 44 19 22 0 44 19 25 0 44 19 28 0 44	19 43 2 2 19 42 2 2 19 41 2 2 19 41 2 2 19 40 2 2 19 39 2 2	9 17 0 47 9 17 0 47 9 17 0 47 9 17 0 47 9 16 0 47 9 16 0 47	13 22 0 20 13 22 0 20	7 19 17 25 7 19 17 25 7 19 17 25 7 19 17 24 7 19 17 24 7 19 17 24 7 19 17 23	3 11 3 8 3 5 3 3 3 2 3 2 3 2	2 36 2 35 2 33 2 32 2 31 2 30	11 2 11 0 10 59 10 57 10 56 10 54	16 26 6 43 16 25 6 44 16 25 6 45 16 25 6 45
S 27 M28 T 29 W30	21 12 21 23 21 33 21 s43	5 27 0n42 9 24 1 52		27 20 0 0 32 24 20 17 0 30	24 6 0 49 24 9 0 49	19 36 0 44 19 39 0 44 19 42 0 43 19 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 37 2 2	9 16 0 46 9 15 0 46	13 22 0 20 13 22 0 20 13 22 0 20 13n22 0n20	7 19 17 23 7 20 17 23 7 20 17 23 7 20 17 23 7 s20 17 s22	3 2 3 2 3 2 3 s 0	2 26 2 25	10 49 10 48	16 24 6 46 16 24 6 47 16 23 6 47 16n23 6s48

Julian Day Number = 2484356.5, Delta T = 88.68 sec Ecliptic obliquity = $23^{\circ}25'30$, Nutation = $0^{\circ}00'01$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $25^{\circ}59'43$, Lahiri = $25^{\circ}06'44$

DECEMBER 2089 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ)મું(并	В	n	Ω	Ç	ķ	Day
T 1	4 42 24	9 × 730'59	25 M .51	0 ට 58	5 ₹ 38	26 × 721	1 × 745	7°R42	8 米 6	25°R21	22°R42	7°R26	5 ₽ 58	22≈ 7	8°R14	T 1
F 2	4 46 20	10°31'48	8 ₹ 56	1°54	6°54	27° 6	1°58	7 Ⅲ 37	8° 7	25 Ω 21	22 Y 41	7 ₽ 16	5°55	22°14	89911	F 2
S 3	4 50 17	11°32'39	21°47	2°44	8° 9	27°51	2°12	7°32	8° 7	25°21	22°40	7° 4	5°52	22°21	8° 7	S 3
S 4	4 54 13	12°33'31	4 ♂ 24	3°30	9°25	28°36	2°25	7°27	8° 8	25°21	22°40	6°51	5°48	22°27	8° 4	S 4
M 5	4 58 10	13°34'24	16°47	4° 9	10°40	29°21	2°38	7°22	8° 9	25°20	22°39	6°39	5°45	22°34	8° 1	M 5
T 6	5 2 6	14°35'18	28°57	4°41	11°56	0중 7	2°51	7°17	8°10	25°20	22°38	6°29	5°42	22°41	7°57	T 6
W 7	5 6 3	15°36'12	10≈56	5° 6	13°11	0°52	3° 5	7°12	8°11	25°20	22°38	6°21	5°39	22°47	7°54	W 7
T 8	5 10 0	16°37'07	22°47	5°22	14°27	1°37	3°18	7° 7	8°12	25°19	22°37	6°16	5°36	22°54	7°50	T 8
F 9	5 13 56	17°38'04	4) €36	5°R28	15°42	2°23	3°31	7° 3	8°13	25°19	22°36	6°13	5°33	23° 1	7°47	F 9
S 10	5 17 53	18°39'00	16°26	5°24	16°58	3° 8	3°44	6°58	8°14	25°19	22°36	6°D12	5°29	23° 7	7°43	S 10
S 11	5 21 49	19°39'58	28°24	5° 9	18°13	3°54	3°57	6°53	8°16	25°18	22°35	6°12	5°26	23°14	7°39	S 11
M12	5 25 46	20°40'56	10 Y 34	4°43	19°29	4°39	4°10	6°48	8°17	25°18	22°35	6°R12	5°23	23°21	7°36	M12
T 13	5 29 42	21°41'54	23° 3	4° 5	20°44	5°25	4°23	6°44	8°18	25°17	22°34	6°11	5°20	23°27	7°32	T 13
W14	5 33 39	22°42'54	5 8 54	3°16	22° 0	6°10	4°37	6°39	8°20	25°17	22°34	6° 8	5°17	23°34	7°28	W14
T 15	5 37 35	23°43'54	19°11	2°17	23°15	6°56	4°50	6°34	8°21	25°16	22°33	6° 2	5°13	23°41	7°24	T 15
F 16	5 41 32	24°44'54	2 ∏ 54	1° 8	24°31	7°42	5° 3	6°30	8°23	25°15	22°33	5°53	5°10	23°47	7°21	F 16
S 17	5 45 29	25°45'55	17° 2	29 × 52	25°46	8°28	5°15	6°25	8°24	25°15	22°32	5°42	5° 7	23°54	7°17	S 17
S 18	5 49 25	26°46'57	1930	28°32	27° 2	9°13	5°28	6°21	8°26	25°14	22°32	5°30	5° 4	24° 1	7°13	S 18
M19	5 53 22	27°47'59	16°11	27° 9	28°17	9°59	5°41	6°16	8°27	25°13	22°32	5°18	5° 1	24° 7	7° 9	M19
T 20	5 57 18	28°49'02	0 Ω 58	25°46	29°33	10°45	5°54	6°12	8°29	25°13	22°31	5° 7	4°58	24°14	7° 5	T 20
W21	6 1 15	29°50'06	15°41	24°27	0 중 48 2°4	11°31	6° 7	6° 8 6° 3	8°30	25°12	22°31	4°59	4°54	24°21	7° 1	W21
T 22 F 23	6 5 11 6 9 8	0 궁 51'11 1°52'16	0 Mp 15 14°35	23°14 22° 9	3°19	12°17 13° 3	6°20 6°32	5°59	8°32 8°34	25°11 25°10	22°31 22°30	4°54 4°52	4°51 4°48	24°27 24°34	6°57 6°54	T 22 F 23
S 24	6 13 4	2°53'22	28°38	21°13	4°35	13°49	6°45	5°55	8°36	25° 9	22°30	4°51	4°45	24°41	6°50	S 24
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S 25	6 17 1	3°54'29	12 Ω 26	20°27	5°50	14°35	6°58	5°51	8°38	25° 8	22°30	4°51	4°42	24°48	6°46	S 25
M26	6 20 58	4°55'36	25°58	19°52	7° 6	15°22	7°10	5°47	8°40	25° 8	22°29	4°50	4°38	24°54	6°42	M26
T 27	6 24 54 6 28 51	5°56'45 6°57'53	9 M 16 22°22	19°27 19°13	8°21 9°37	16° 8 16°54	7°23 7°36	5°43 5°39	8°42 8°44	25° 7 25° 6	22°29 22°29	4°47 4°41	4°35 4°32	25° 1 25° 8	6°38 6°34	T 27 W28
W28 T 29	6 32 47	7°59'03	5×16	19°13	10°52	16°34 17°40	7°48	5°36	8°44 8°46	25° 6 25° 5	22°29	4°41 4°32	4°32 4°29	25° 8 25°14	6°30	W28 T 29
F 30	6 36 44	9° 0'12	18° 0	19°15	10° 32 12° 8	18°27	8° 0	5°32	8°48	25° 4	22°29	4°20	4°26	25°21	6°26	F 30
S 31	6 40 40	10 ප් 1'22	0 පි 33	19 × 29	13 そ 23	19 ට 13	8 ~ 13	5 ∏ 28	8 ₩50	25 0 2	22 Y 29	4 <u>₽</u> 7	4 Ω 23	25≈28	6922	S 31

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S 11 M12 T 13 W14 T 15 F 16		0 0 0 41 3n50 0s23 7 35 1 28 11 7 2 31 14 11 3 27 16 35 4 13	1 23 49 3 23 32 3 23 14 1 22 56	0 11 23 1 0n 7 23 9 0 27 23 16 0 47 23 23 1 7 23 29	0 4 24 17 0 2 24 16 0s 1 24 15 0 3 24 13 0 5 24 12 0 8 24 10 0 10 24 8 0 13 24 5	0 54 2: 0 54 2: 0 55 2: 0 55 2: 0 55 2: 0 56 2: 0 56 2:	20 13 0 43 20 16 0 43 20 18 0 43 20 21 0 43 20 23 0 43 20 26 0 43	19 27 2 0 19 26 2 0 19 25 2 0 19 25 2 0	9 11 9 10 9 10 9 9 9 8 9 8	0 46 13 0 46 13 0 46 13 0 46 13 0 46 13	3 24 0 20 3 25 0 20 3 25 0 20	7 19 17 19 7 19 17 19 7 19 17 19 7 19 17 18 7 19 17 18 7 19 17 18 7 18 17 18 7 18 17 17	2 28 2 28 2 27 2 26 2 24 2 20	2 9 2 8 2 7 2 6 2 4 2 3	10 31 10 30 10 28 10 27 10 25 10 23 10 22 10 20	16 22 6 51 16 22 6 51 16 22 6 52 16 22 6 52 16 21 6 52 16 21 6 52
S 18 M19 T 20 W21 T 22 F 23 S 24	23 24	17 34 4 55 15 31 4 31 12 29 3 49 8 42 2 52 4 27 1 45	20 47 2 20 33	2 3 23 42 2 18 23 45 2 32 23 47 2 43 23 49 2 51 23 49	0 15 24 2 0 17 23 59 0 20 23 56 0 22 23 53 0 24 23 49 0 26 23 45 0 29 23 40	0 56 2 0 57 2 0 57 2 0 57 2 0 58 2 0 58 2 0 58 2	20 32 0 43 20 35 0 43 20 37 0 43 20 39 0 43 20 41 0 43	19 23 1 59 19 22 1 59	9 6 9 5 9 5 9 4 9 3	0 46 13 0 46 13 0 46 13 0 46 13 0 45 13	3 25 0 20 3 25 0 20 3 26 0 20 3 26 0 20 3 26 0 20 3 27 0 20 3 27 0 20		2 6 2 2 1 59 1 57 1 56	1 59 1 58 1 57 1 56	10 19 10 17 10 16 10 14 10 13 10 11 10 9	16 21 6 53 16 21 6 53 16 22 6 53 16 22 6 54
T 29 F 30	23 14	11 52 2 51 14 45 3 43 16 52 4 22 18 6 4 48	9 20 0 1 19 58 3 19 59 2 20 1	3 3 23 47 3 3 23 45 3 1 23 42 2 58 23 39	0 31 23 36 0 33 23 31 0 35 23 26 0 38 23 20 0 40 23 14 0 42 23 8 0 844 23 s 2	0 58 20 0 59 20 0 59 20 1 0 20 1 s 0 20	20 48 0 42 20 50 0 42 20 52 0 42 20 54 0 42 20 56 0 42	19 19 1 58	9 1 9 0 9 0 8 59 8 58	0 45 13 0 45 13 0 45 13 0 45 13 0 45 13 0 45 13	3 28 0 20 3 28 0 20 3 28 0 20 3 29 0 20 3 29 0 21	7 17 17 14 7 16 17 14 7 16 17 14 7 16 17 13 7 16 17 13 7 15 17 13 7 15 17 13 7 15 17 12	1 55 1 54 1 52 1 48 1 43	1 48 1 47	10 6 10 5 10 3 10 2 10 0	16 22 6 54 16 22 6 54

Julian Day Number = 2484386.5, Delta T = 88.72 sec Ecliptic obliquity = 23°25'30, Nutation = $0^{\circ}00'01$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $25^{\circ}59'48$, Lahiri = $25^{\circ}06'48$