

TABLE 4. – GHA and Declination of the Sun for the Years 2001-2036 – Argument “Orbit Time”

Modified HermanD 10-2016/08-2019-v1.0

Month ▶	Januari		Februari		Maart		April		Mei		Juni		Juli		Augustus		September		Oktober		November		December		◀ Month
DAY ▼	E	Dec	E	Dec	E	Dec	E	Dec	E	Dec	E	Dec	E	Dec	E	Dec	E	Dec	E	Dec	E	Dec	E	Dec	DAY ▼
1	04°12' S 23°03' Diff -7 Diff -5	01°38' S 17°16' Diff -2 Diff -17	01°53' S 07°49' Diff +3 Diff -23	03°58' N 04°19' Diff +5 Diff +23	05°42' N 14°54' Diff +2 Diff +18	05°35' N 21°58' Diff -3 Diff +8	04°05' N 23°08' Diff -3 Diff -4	03°24' N 18°10' Diff +1 Diff -16	04°56' N 08°29' Diff +5 Diff -21	07°31' S 02°57' Diff +5 Diff +24	09°06' S 14°14' Diff +1 Diff +19	07°50' S 21°42' Diff -5 Diff +9	1												
2	04°05' S 22°58' Diff -7 Diff -6	01°36' S 16°59' Diff -2 Diff -18	01°56' S 07°26' Diff +3 Diff -23	04°03' N 04°42' Diff +4 Diff +23	05°44' N 15°12' Diff +2 Diff +18	05°32' N 22°06' Diff -2 Diff +8	04°02' N 23°04' Diff -3 Diff -4	03°25' N 17°54' Diff +1 Diff -15	05°01' N 08°08' Diff +5 Diff -22	07°36' S 03°21' Diff +5 Diff +23	09°07' S 14°33' Diff 0 Diff +19	07°44' S 21°51' Diff -6 Diff +9	2												
3	03°58' S 22°52' Diff -7 Diff -5	01°35' S 16°41' Diff -2 Diff -17	01°59' S 07°03' Diff +3 Diff -23	04°07' N 05°05' Diff +5 Diff +23	05°46' N 15°30' Diff +1 Diff +17	05°30' N 22°14' Diff -2 Diff +8	03°59' N 23°00' Diff -3 Diff -5	03°26' N 17°39' Diff +2 Diff -16	05°06' N 07°46' Diff +5 Diff -22	07°41' S 03°44' Diff +5 Diff +23	09°07' S 14°52' Diff 0 Diff +19	07°38' S 22°00' Diff -5 Diff +9	3												
4	03°52' S 22°47' Diff -7 Diff -7	01°33' S 16°24' Diff -1 Diff -18	02°02' S 06°40' Diff +3 Diff -23	04°12' N 05°28' Diff +4 Diff +23	05°47' N 15°47' Diff +2 Diff +18	05°28' N 22°22' Diff -3 Diff +7	03°56' N 22°55' Diff -3 Diff -5	03°28' N 17°23' Diff +1 Diff -15	05°11' N 07°24' Diff +5 Diff -22	07°46' S 04°07' Diff +4 Diff +23	09°07' S 15°11' Diff 0 Diff +18	07°33' S 22°09' Diff -6 Diff +8	4												
5	03°45' S 22°40' Diff -7 Diff -6	01°32' S 16°06' Diff -2 Diff -18	02°05' S 06°17' Diff +4 Diff -23	04°16' N 05°51' Diff +4 Diff +23	05°49' N 16°05' Diff +1 Diff +17	05°25' N 22°29' Diff -3 Diff +6	03°53' N 22°50' Diff -2 Diff -6	03°29' N 17°08' Diff +1 Diff -17	05°16' N 07°02' Diff +5 Diff -22	07°50' S 04°30' Diff +5 Diff +23	09°07' S 15°29' Diff -1 Diff +19	07°27' S 22°17' Diff -7 Diff +8	5												
6	03°38' S 22°34' Diff -7 Diff -8	01°30' S 15°48' Diff -1 Diff -19	02°09' S 05°54' Diff +3 Diff -23	04°20' N 06°14' Diff +5 Diff +22	05°50' N 16°22' Diff +1 Diff +17	05°22' N 22°35' Diff -2 Diff +6	03°51' N 22°44' Diff -3 Diff -6	03°30' N 16°51' Diff +2 Diff -16	05°21' N 06°40' Diff +5 Diff -23	07°55' S 04°53' Diff +4 Diff +23	09°06' S 15°48' Diff 0 Diff +18	07°20' S 22°25' Diff -6 Diff +7	6												
7	03°31' S 22°26' Diff -6 Diff -7	01°29' S 15°29' Diff -1 Diff -18	02°12' S 05°31' Diff +4 Diff -24	04°25' N 06°36' Diff +4 Diff +23	05°51' N 16°39' Diff +1 Diff +16	05°20' N 22°41' Diff -3 Diff +6	03°48' N 22°38' Diff -2 Diff -6	03°32' N 16°35' Diff +2 Diff -17	05°26' N 06°17' Diff +5 Diff -22	07°59' S 05°16' Diff +4 Diff +23	09°06' S 16°06' Diff -1 Diff +17	07°14' S 22°32' Diff -6 Diff +7	7												
8	03°25' S 22°19' Diff -6 Diff -8	01°28' S 15°11' Diff 0 Diff -19	02°16' D 05°07' Diff +3 Diff -23	04°29' N 06°59' Diff +4 Diff +22	05°52' N 16°55' Diff +1 Diff +17	05°17' N 22°47' Diff -3 Diff +6	03°46' N 22°32' Diff -2 Diff -7	03°34' N 16°18' Diff +2 Diff -17	05°31' N 05°55' Diff +5 Diff -23	08°03' S 05°39' Diff +5 Diff +23	09°05' S 16°23' Diff -1 Diff +18	07°08' S 22°39' Diff -7 Diff +6	8												
9	03°19' S 22°11' Diff -7 Diff -9	01°28' S 14°52' Diff -1 Diff -20	02°19' S 04°44' Diff +4 Diff -24	04°33' N 07°21' Diff +4 Diff +23	05°53' N 17°12' Diff +1 Diff +16	05°14' N 22°53' Diff -3 Diff +5	03°44' N 22°25' Diff -3 Diff -7	03°36' N 16°01' Diff +2 Diff -17	05°36' N 05°32' Diff +5 Diff -22	08°08' S 06°02' Diff +4 Diff +23	09°04' S 16°41' Diff -1 Diff +17	07°01' S 22°45' Diff -7 Diff +6	9												
10	03°12' S 22°02' Diff -6 Diff -9	01°27' S 14°32' Diff 0 Diff -19	02°23' S 04°20' Diff +4 Diff -23	04°37' N 07°44' Diff +4 Diff +22	05°54' N 17°28' Diff 0 Diff +15	05°11' N 22°58' Diff -3 Diff +4	03°41' N 22°18' Diff -2 Diff -7	03°38' N 15°44' Diff +2 Diff -18	05°41' N 05°10' Diff +5 Diff -23	08°12' S 06°25' Diff +4 Diff +23	09°03' S 16°58' Diff -2 Diff +17	06°54' S 22°51' Diff -7 Diff +6	10												
11	03°06' S 21°53' Diff -6 Diff -9	01°27' S 14°13' Diff 0 Diff -20	02°27' S 03°57' Diff +4 Diff -24	04°41' N 08°06' Diff +4 Diff +22	05°54' N 17°43' Diff 0 Diff +15	05°08' N 23°04' Diff -3 Diff +6	03°39' N 22°11' Diff -2 Diff -8	03°40' N 15°26' Diff +2 Diff -17	05°46' N 04°47' Diff +6 Diff -23	08°16' S 06°48' Diff +4 Diff +22	09°01' S 17°15' Diff -1 Diff +17	06°47' S 22°57' Diff -6 Diff +5	11												
12	03°00' S 21°44' Diff -5 Diff -10	01°27' S 13°53' Diff 0 Diff -20	02°31' S 03°33' Diff +4 Diff -23	04°45' N 08°28' Diff +4 Diff +22	05°55' N 17°59' Diff 0 Diff +15	05°05' N 23°06' Diff -3 Diff +4	03°37' N 22°11' Diff -2 Diff -9	03°42' N 15°09' Diff +3 Diff -19	05°52' N 04°24' Diff +5 Diff -23	08°20' S 07°10' Diff +3 Diff +23	09°00' S 17°32' Diff -2 Diff +16	06°41' S 23°02' Diff -7 Diff +4	12												
13	02°55' S 21°34' Diff -6 Diff -9	01°27' S 13°33' Diff +1 Diff -20	02°35' S 03°10' Diff +4 Diff -24	04°49' N 08°50' Diff +4 Diff +21	05°55' N 18°14' Diff 0 Diff +15	05°02' N 23°10' Diff -3 Diff +4	03°35' N 21°54' Diff -2 Diff -8	03°45' N 14°50' Diff +3 Diff -18	05°57' N 04°01' Diff +5 Diff -23	08°23' S 07°33' Diff +4 Diff +22	08°58' S 17°48' Diff -2 Diff +16	06°34' S 23°06' Diff -7 Diff +4	13												
14	02°49' S 21°24' Diff -6 Diff -10	01°28' S 13°13' Diff 0 Diff -20	02°39' S 02°46' Diff +4 Diff -24	04°53' N 09°11' Diff +4 Diff +22	05°55' N 18°29' Diff 0 Diff +14	04°59' N 23°14' Diff -3 Diff +3	03°33' N 21°46' Diff -1 Diff -9	03°48' N 14°32' Diff +2 Diff -18	06°02' N 03°38' Diff +5 Diff -23	08°27' S 07°55' Diff +4 Diff +23	08°56' S 18°04' Diff -3 Diff +16	06°27' S 23°10' Diff -8 Diff +4	14												
15	02°43' S 21°14' Diff -5 Diff -11	01°28' S 12°53' Diff +1 Diff -21	02°43' S 02°22' Diff +4 Diff -23	04°57' N 09°33' Diff +3 Diff +22	05°55' N 18°43' Diff 0 Diff +15	04°56' N 23°17' Diff -4 Diff +2	03°32' N 21°37' Diff -2 Diff -10	03°50' N 14°14' Diff +3 Diff -19	06°07' N 03°15' Diff +6 Diff -23	08°31' S 08°18' Diff +3 Diff +22	08°53' S 18°20' Diff -2 Diff +15	06°19' S 23°14' Diff -7 Diff +3	15												
16	02°38' S 21°03' Diff -5 Diff -12	01°29' S 12°32' Diff +1 Diff -21	02°47' S 01°59' Diff +4 Diff -24	05°00' N 09°55' Diff +4 Diff +21	05°55' N 18°58' Diff 0 Diff +13	04°52' N 23°19' Diff -3 Diff +2	03°30' N 21°27' Diff +3 Diff -19	03°53' N 13°55' Diff +3 Diff -19	06°13' N 02°52' Diff +5 Diff -23	08°34' S 08°40' Diff +3 Diff +22	08°51' S 18°35' Diff -3 Diff +15	06°12' S 23°17' Diff -7 Diff +3	16												
17	02°33' S 20°51' Diff -5 Diff -12	01°30' S 21°11' Diff +1 Diff -21	02°51' S 01°35' Diff +5 Diff -24	05°04' N 10°16' Diff +3 Diff +21	05°55' N 19°11' Diff -1 Diff +14	04°49' N 23°21' Diff -3 Diff +2	03°29' N 21°17' Diff -2 Diff -10	03°56' N 13°36' Diff +3 Diff -19	06°18' N 02°29' Diff +5 Diff -23	08°37' S 09°02' Diff +3 Diff +22	08°48' S 18°50' Diff -2 Diff +15	06°05' S 23°20' Diff -7 Diff +2	17												
18	02°28' S 20°39' Diff -5 Diff -12	01°31' S 11°50' Diff +1 Diff -21	02°56' S 01°11' Diff +4 Diff -24	05°07' N 10°37' Diff +4 Diff +21	05°54' N 19°25' Diff 0 Diff +13	04°46' N 23°23' Diff -3 Diff +2	03°27' N 21°07' Diff -1 Diff -10	03°59' N 13°17' Diff +3 Diff -19	06°23' N 02°06' Diff +6 Diff -23	08°40' S 09°24' Diff +3 Diff +22	08°45' S 19°05' Diff -3 Diff +14	05°58' S 23°22' Diff -8 Diff +2	18												
19	02°23' S 20°27' Diff -4 Diff -12	01°32' S 11°29' Diff +1 Diff -21	03°00' S 00°47' Diff +4 Diff -24	05°11' N 10°58' Diff +3 Diff +21	05°54' N 19°38' Diff -1 Diff +13	04°43' N 23°25' Diff -4 Diff 0	03°26' N 20°57' Diff -1 Diff -11	04°03' N 12°58' Diff +3 Diff -20	06°29' N 01°43' Diff +5 Diff -24	08°43' S 09°46' Diff +3 Diff +21	08°42' S 19°19' Diff -3 Diff +14	05°50' S 23°24' Diff -7 Diff +1	19												
20	02°19' S 20°15' Diff -5 Diff -13	01°33' S 11°08' Diff +2 Diff -22	03°04' S 00°24' Diff +5 Diff -24	05°14' N 11°19' Diff +3 Diff +20	05°53' N 19°51' Diff -1 Diff +13	04°39' N 23°25' Diff -3 Diff +1	03°25' N 20°46' Diff -1 Diff -11	04°06' N 13°38' Diff +4 Diff -20	06°34' N 01°19' Diff +6 Diff -23	08°46' S 10°07' Diff +3 Diff +22	08°39' S 19°33' Diff -4 Diff +13	05°43' S 23°25' Diff -8 Diff +1	20												
21	02°14' S 20°02' Diff -4 Diff -14	01°35' S 10°46' Diff +1 Diff -21	03°09' 00°00' Diff +4 Diff +24	05°17' N 11°39' Diff +3 Diff +21	05°52' N 20°04' Diff -1 Diff +12	04°36' N 23°26' Diff -3 Diff 0	03°24' N 20°35' Diff 0 Diff -12	04°10' N 13°18' Diff +3 Diff -20	06°40' N 00°56' Diff +5 Diff -23	08°49' S 10°29' Diff +2 Diff +21	08°35' S 19°46' Diff -3 Diff +14	05°35' S 23°26' Diff -7 Diff 0	21												
22	02°10' S 19°48' Diff -4 Diff -13	01°36' S 10°25' Diff +2 Diff -22	03°13' N 00°24' Diff +5 Diff +23	05°20' N 12°00' Diff +3 Diff +20	05°51' N 20°16' Diff -1 Diff +12	04°33' N 23°26' Diff -4 Diff +2	03°24' N 20°23' Diff -1 Diff -12	04°13' N 11°58' Diff +3 Diff -20	06°45' N 00°33' Diff +5 Diff -23	08°51' S 10°50' Diff +2 Diff +21	08°32' S 20°00' Diff -4 Diff +13	05°28' S 23°26' Diff -7 Diff 0	22												
23	02°06' S 19°35' Diff -4 Diff -14	01°38' S 10°03' Diff +2 Diff -22	03°18' N 00°47' Diff +4 Diff +24	05°23' N 12°20' Diff +3 Diff +20	05°50' N 20°28' Diff -1 Diff +11	04°29' N 23°26' Diff -3 Diff -1	03°23' N 20°11' Diff 0 Diff -12	04°17' N 11°38' Diff +4 Diff -20	06°50' N 00°09' Diff +5 Diff -23	08°53' S 11°11' Diff +3 Diff +21	08°28' S 20°13' Diff -4 Diff +12	05°21' S 23°26' Diff -8 Diff -1	23												
24	02°02' S 19°21' Diff -4 Diff -15	01°40' S 09°41' Diff +3 Diff -22	03°22' N 01°11' Diff +5 Diff +24	05°26' N 12°40' Diff +2 Diff +20	05°49' N 20°39' Diff -2 Diff +11	04°26' N 23°25' Diff -3 Diff -1	03°23' N 19°59' Diff -1 Diff -13	04°22' N 11°18' Diff +4 Diff -21	06°55' S 00°14' Diff +6 Diff +23	08°56' S 11°32' Diff +2 Diff +21	08°24' S 20°25' Diff -5 Diff +12	05°13' S 23°25' Diff -7 Diff -1	24												
25	01°58' S 19°06' Diff -3 Diff -15	01°43' S 09°19' Diff +2 Diff -23	03°27' N 01°35' Diff +4 Diff +23	05°28' N 13°00' Diff +3 Diff +19	05°47' N 20°50' Diff -1 Diff +11	04°23' N 23°24' Diff -3 Diff -2	03°22' N 19°46' Diff 0 Diff -12	04°25' N 10°57' Diff +4 Diff -20	07°01' S 00°37' Diff +5 Diff +24	08°58' S 11°53' Diff +1 Diff +21	08°19' S 20°37' Diff -4 Diff +12	05°06' S 23°24' Diff -8 Diff -1	25												
26	01°55' S 18°51' Diff -3 Diff -15	01°45' S 08°56' Diff +2 Diff -22	03°31' N 01°58' Diff +5 Diff +24	05°31' N 13°19' Diff +3 Diff +20	05°46' N 21°01' Diff -2 Diff +11	04°20' N 23°22' Diff -3 Diff -2	03°22' N 19°34' Diff 0 Diff -14	04°29' N 10°37' Diff +5 Diff -21	07°06' S 01°01' Diff +5 Diff +23	08°59' S 12°14' Diff +2 Diff +21	08°15' S 20°49' Diff -5 Diff +12	04°58' S 23°23' Diff -7 Diff -2	26												
27	01°52' S 18°36' Diff -4 Diff -15	01°47' S 08°34' Diff +3 Diff -23	03°36' N 02°22' Diff +4 Diff +23	05°34' N 13°39' Diff +2 Diff +19	05°44' N 21°12' Diff -1 Diff +10	04°17' N 23°20' Diff -3 Diff -2	03°22' N 19°20' Diff 0 Diff -13	04°34' N 10°16' Diff +4 Diff -21	07°11' S 01°24' Diff +5 Diff +23	09°01' S 12°35' Diff +1 Diff +20	08°10' S 21°01' Diff -5 Diff +11	04°51' S 23°21' Diff -7 Diff -3	27												
28	01°48' S 18°21' Diff -2 Diff -16	01°50' S 08°11' Diff +3 Diff -22	03°40' N 02°45' Diff +4 Diff +24	05°36' N 13°58' Diff +2 Diff +19	05°43' N 21°22' Diff -2 Diff +9	04°14' N 23°18' Diff -3 Diff -3	03°22' N 19°07' Diff +1 Diff -14	04°38' N 09°55' Diff +4 Diff -21	07°16' S 01°47' Diff +5 Diff +24	09°02' S 12°55' Diff +2 Diff +20	08°05' S 21°12' Diff -5 Diff +10	04°44' S 23°18' Diff -8 Diff -3	28												
29	01°46' S 18°05' Diff -3 Diff -16	01°53' S 07°49' Diff 0 Diff -23	03°45' N 03°09' Diff +4 Diff +23	05°38' N 14°17' Diff +2 Diff +18	05°41' N 21°31' Diff -2 Diff +10	04°11' N 23°15' Diff -3 Diff -3	03°23' N 18°53' Diff 0 Diff -14	04°42' N 09°34' Diff +5 Diff -21	07°21' S 02°11' Diff +5 Diff +23	09°04' S 13°15' Diff +1 Diff +20	08°00' S 21°22' Diff -5 Diff +10	04°36' S 23°15' Diff -7 Diff -3	29												
30	01°43' S 17°49' Diff -2 Diff -16		03°49' N 03°32' Diff +5 Diff +23	05°40' N 14°35' Diff +2 Diff +19	05°39' N 21°41' Diff -2 Diff +9	04°08' N 23°12' Diff -3 Diff -4	03°23' N 18°39' Diff +1 Diff -15	04°47' N 09°13' Diff +5 Diff -22	07°26' S 02°34' Diff +5 Diff +23	09°05' S 13°35' Diff 0 Diff +19	07°55' S 21°32' Diff -5 Diff +10	04°29' S 23°12' Diff -7 Diff -4	30												
31	01°41' S 17°33' Diff -3 Diff -17		03°54' N 03°55' Diff +4 Diff +24		05°37' N 21°50' Diff -2 Diff +8		03°24' N 18°24' Diff 0 Diff -14	04°52' N 08°51' Diff +4 Diff -22		09°05' S 13°54' Diff +1 Diff +20		04°22' S 23°08' Diff -8 Diff -4	31												