

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-3000	3,738031E+20	9,999292E+20	1,365955E+21	1,365920E+21	9,998424E+20	3,737113E+20	7,856061E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,857239E+18
-2999	3,737657E+20	9,998239E+20	1,365844E+21	1,365888E+21	9,998900E+20	3,737963E+20	7,857773E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,858426E+18
-2998	3,737167E+20	9,998209E+20	1,365846E+21	1,365848E+21	9,998327E+20	3,737519E+20	7,862451E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862279E+18
-2997	3,737858E+20	9,998307E+20	1,365798E+21	1,365766E+21	9,997578E+20	3,737006E+20	7,855851E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,857608E+18
-2996	3,737055E+20	9,997128E+20	1,365705E+21	1,365730E+21	9,997717E+20	3,737694E+20	7,862011E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,859993E+18
-2995	3,737008E+20	9,997460E+20	1,365722E+21	1,365696E+21	9,996870E+20	3,736716E+20	7,860177E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862256E+18
-2994	3,737443E+20	9,997107E+20	1,365647E+21	1,365645E+21	9,996871E+20	3,736914E+20	7,857150E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,857995E+18
-2993	3,736602E+20	9,996453E+20	1,365636E+21	1,365654E+21	9,997048E+20	3,737337E+20	7,862994E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863001E+18
-2992	3,737249E+20	9,997264E+20	1,365671E+21	1,365639E+21	9,996418E+20	3,736411E+20	7,857839E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861078E+18
-2991	3,737234E+20	9,996751E+20	1,365615E+21	1,365641E+21	9,997116E+20	3,737276E+20	7,859221E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,857402E+18
-2990	3,736623E+20	9,996921E+20	1,365691E+21	1,365693E+21	9,997237E+20	3,737275E+20	7,862876E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863535E+18
-2989	3,737491E+20	9,997621E+20	1,365726E+21	1,365702E+21	9,996993E+20	3,736705E+20	7,857680E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,857476E+18
-2988	3,737072E+20	9,996999E+20	1,365693E+21	1,365739E+21	9,997875E+20	3,737673E+20	7,859526E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,859233E+18
-2987	3,737053E+20	9,997792E+20	1,365786E+21	1,365781E+21	9,997688E+20	3,737115E+20	7,860422E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863405E+18
-2986	3,737919E+20	9,998240E+20	1,365796E+21	1,365789E+21	9,997910E+20	3,737186E+20	7,855807E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,856492E+18
-2985	3,737265E+20	9,997934E+20	1,365823E+21	1,365841E+21	9,998494E+20	3,737931E+20	7,860306E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861646E+18
-2984	3,737669E+20	9,998843E+20	1,365894E+21	1,365858E+21	9,997999E+20	3,737045E+20	7,858959E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,859072E+18
-2983	3,737819E+20	9,998420E+20	1,365836E+21	1,365845E+21	9,998470E+20	3,737633E+20	7,856201E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,856375E+18
-2982	3,737019E+20	9,997974E+20	1,365848E+21	1,365862E+21	9,998536E+20	3,737824E+20	7,862899E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862339E+18
-2981	3,737724E+20	9,998422E+20	1,365838E+21	1,365814E+21	9,997758E+20	3,736910E+20	7,857094E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,858237E+18
-2980	3,737427E+20	9,997485E+20	1,365724E+21	1,365757E+21	9,997991E+20	3,737664E+20	7,858466E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,858998E+18
-2979	3,736888E+20	9,997450E+20	1,365740E+21	1,365729E+21	9,997370E+20	3,737163E+20	7,862593E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862882E+18
-2978	3,737565E+20	9,997516E+20	1,365693E+21	1,365661E+21	9,996749E+20	3,736680E+20	7,856299E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,858408E+18
-2977	3,736780E+20	9,996412E+20	1,365614E+21	1,365634E+21	9,996950E+20	3,737370E+20	7,862177E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,860868E+18
-2976	3,736768E+20	9,996740E+20	1,365628E+21	1,365604E+21	9,996191E+20	3,736430E+20	7,860182E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862967E+18
-2975	3,737195E+20	9,996371E+20	1,365544E+21	1,365545E+21	9,996193E+20	3,736687E+20	7,857849E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,858589E+18
-2974	3,736389E+20	9,995782E+20	1,365540E+21	1,365566E+21	9,996495E+20	3,737163E+20	7,863804E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863144E+18
-2973	3,736985E+20	9,996629E+20	1,365585E+21	1,365553E+21	9,995855E+20	3,736275E+20	7,859267E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861294E+18
-2972	3,736975E+20	9,996119E+20	1,365530E+21	1,365547E+21	9,996397E+20	3,737033E+20	7,859847E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,857738E+18
-2971	3,736348E+20	9,996192E+20	1,365605E+21	1,365610E+21	9,996560E+20	3,736986E+20	7,862664E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864523E+18
-2970	3,737305E+20	9,996963E+20	1,365637E+21	1,365620E+21	9,996428E+20	3,736468E+20	7,857637E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,858701E+18
-2969	3,736984E+20	9,996569E+20	1,365623E+21	1,365658E+21	9,997279E+20	3,737447E+20	7,859451E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,860080E+18
-2968	3,736956E+20	9,997410E+20	1,365723E+21	1,365707E+21	9,997149E+20	3,736936E+20	7,860923E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863043E+18
-2967	3,737691E+20	9,997764E+20	1,365730E+21	1,365712E+21	9,997324E+20	3,737029E+20	7,856914E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,856081E+18
-2966	3,736963E+20	9,997287E+20	1,365750E+21	1,365776E+21	9,998017E+20	3,737771E+20	7,861475E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861252E+18
-2965	3,737311E+20	9,998063E+20	1,365805E+21	1,365782E+21	9,997508E+20	3,736888E+20	7,860083E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,859665E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-2964	3,737544E+20	9,997633E+20	1,365730E+21	1,365739E+21	9,997717E+20	3,737354E+20	7,856429E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,857527E+18
-2963	3,736786E+20	9,997157E+20	1,365738E+21	1,365753E+21	9,997713E+20	3,737495E+20	7,862676E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863565E+18
-2962	3,737533E+20	9,997695E+20	1,365726E+21	1,365700E+21	9,996970E+20	3,736623E+20	7,857341E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,859428E+18
-2961	3,737234E+20	9,996897E+20	1,365633E+21	1,365645E+21	9,997116E+20	3,737355E+20	7,859040E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,859521E+18
-2960	3,736623E+20	9,996738E+20	1,365647E+21	1,365629E+21	9,996566E+20	3,736857E+20	7,863101E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862931E+18
-2959	3,737207E+20	9,996635E+20	1,365581E+21	1,365553E+21	9,995968E+20	3,736403E+20	7,857209E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,859013E+18
-2958	3,736482E+20	9,995530E+20	1,365501E+21	1,365536E+21	9,996297E+20	3,737122E+20	7,862911E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861355E+18
-2957	3,736498E+20	9,995956E+20	1,365520E+21	1,365502E+21	9,995543E+20	3,736245E+20	7,861196E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863839E+18
-2956	3,736980E+20	9,995725E+20	1,365445E+21	1,365433E+21	9,995392E+20	3,736428E+20	7,858568E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,858971E+18
-2955	3,736143E+20	9,995140E+20	1,365457E+21	1,365473E+21	9,995733E+20	3,736881E+20	7,863858E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863553E+18
-2954	3,736728E+20	9,995955E+20	1,365500E+21	1,365473E+21	9,995256E+20	3,736040E+20	7,859675E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861974E+18
-2953	3,736764E+20	9,995562E+20	1,365458E+21	1,365471E+21	9,995809E+20	3,736788E+20	7,859795E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,858571E+18
-2952	3,736194E+20	9,995629E+20	1,365530E+21	1,365536E+21	9,996019E+20	3,736769E+20	7,862628E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864841E+18
-2951	3,737110E+20	9,996368E+20	1,365553E+21	1,365538E+21	9,995879E+20	3,736307E+20	7,858342E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,859010E+18
-2950	3,736827E+20	9,996060E+20	1,365549E+21	1,365588E+21	9,996809E+20	3,737305E+20	7,860340E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,859921E+18
-2949	3,736718E+20	9,996894E+20	1,365654E+21	1,365634E+21	9,996630E+20	3,736825E+20	7,862470E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862998E+18
-2948	3,737418E+20	9,997147E+20	1,365652E+21	1,365627E+21	9,996636E+20	3,736785E+20	7,857590E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,856522E+18
-2947	3,736685E+20	9,996528E+20	1,365659E+21	1,365690E+21	9,997327E+20	3,737474E+20	7,861377E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862275E+18
-2946	3,737090E+20	9,997296E+20	1,365700E+21	1,365687E+21	9,996861E+20	3,736622E+20	7,860096E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861131E+18
-2945	3,737403E+20	9,997045E+20	1,365637E+21	1,365636E+21	9,996955E+20	3,737062E+20	7,856374E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,858699E+18
-2944	3,736636E+20	9,996551E+20	1,365644E+21	1,365650E+21	9,996950E+20	3,737226E+20	7,863082E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863423E+18
-2943	3,737219E+20	9,996957E+20	1,365627E+21	1,365594E+21	9,996169E+20	3,736378E+20	7,858366E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,859555E+18
-2942	3,736899E+20	9,996055E+20	1,365531E+21	1,365552E+21	9,996410E+20	3,737091E+20	7,860132E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,859431E+18
-2941	3,736259E+20	9,995860E+20	1,365537E+21	1,365527E+21	9,995867E+20	3,736632E+20	7,864137E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863725E+18
-2940	3,736918E+20	9,995796E+20	1,365465E+21	1,365435E+21	9,995103E+20	3,736088E+20	7,857695E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,860106E+18
-2939	3,736251E+20	9,994736E+20	1,365391E+21	1,365426E+21	9,995474E+20	3,736803E+20	7,862884E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862305E+18
-2938	3,736300E+20	9,995292E+20	1,365420E+21	1,365400E+21	9,994836E+20	3,736011E+20	7,861761E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864765E+18
-2937	3,736777E+20	9,995199E+20	1,365369E+21	1,365340E+21	9,994641E+20	3,736173E+20	7,859241E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,859292E+18
-2936	3,735894E+20	9,994472E+20	1,365376E+21	1,365395E+21	9,995104E+20	3,736639E+20	7,864268E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863319E+18
-2935	3,736391E+20	9,995168E+20	1,365404E+21	1,365387E+21	9,994665E+20	3,735840E+20	7,860476E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862433E+18
-2934	3,736531E+20	9,994831E+20	1,365363E+21	1,365392E+21	9,995291E+20	3,736604E+20	7,860473E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,858764E+18
-2933	3,735995E+20	9,995049E+20	1,365443E+21	1,365453E+21	9,995497E+20	3,736646E+20	7,863694E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865252E+18
-2932	3,736934E+20	9,995885E+20	1,365476E+21	1,365448E+21	9,995192E+20	3,736097E+20	7,859108E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,859169E+18
-2931	3,736618E+20	9,995540E+20	1,365483E+21	1,365513E+21	9,996149E+20	3,737042E+20	7,860319E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,860404E+18
-2930	3,736496E+20	9,996307E+20	1,365581E+21	1,365566E+21	9,996097E+20	3,736592E+20	7,862639E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863954E+18
-2929	3,737237E+20	9,996625E+20	1,365581E+21	1,365552E+21	9,996034E+20	3,736507E+20	7,857190E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,857874E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\ominus$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-2928	3,736551E+20	9,995920E+20	1,365574E+21	1,365609E+21	9,996727E+20	3,737215E+20	7,861206E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862743E+18
-2927	3,736861E+20	9,996592E+20	1,365599E+21	1,365590E+21	9,996212E+20	3,736417E+20	7,860740E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861715E+18
-2926	3,737186E+20	9,996361E+20	1,365539E+21	1,365542E+21	9,996298E+20	3,736867E+20	7,857614E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,858538E+18
-2925	3,736323E+20	9,995830E+20	1,365546E+21	1,365549E+21	9,996212E+20	3,737045E+20	7,864809E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863389E+18
-2924	3,736853E+20	9,996101E+20	1,365517E+21	1,365480E+21	9,995274E+20	3,736070E+20	7,859258E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,860175E+18
-2923	3,736575E+20	9,995151E+20	1,365415E+21	1,365439E+21	9,995532E+20	3,736724E+20	7,860202E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,860569E+18
-2922	3,736017E+20	9,995026E+20	1,365418E+21	1,365414E+21	9,995077E+20	3,736325E+20	7,864286E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865180E+18
-2921	3,736746E+20	9,995186E+20	1,365368E+21	1,365327E+21	9,994282E+20	3,735778E+20	7,857954E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861116E+18
-2920	3,736072E+20	9,994137E+20	1,365301E+21	1,365329E+21	9,994730E+20	3,736537E+20	7,863393E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861915E+18
-2919	3,735945E+20	9,994530E+20	1,365327E+21	1,365308E+21	9,994154E+20	3,735809E+20	7,862889E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864815E+18
-2918	3,736438E+20	9,994370E+20	1,365275E+21	1,365265E+21	9,994090E+20	3,735970E+20	7,860276E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,859182E+18
-2917	3,735584E+20	9,993695E+20	1,365276E+21	1,365308E+21	9,994541E+20	3,736471E+20	7,865056E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864016E+18
-2916	3,736152E+20	9,994450E+20	1,365303E+21	1,365287E+21	9,993948E+20	3,735584E+20	7,860791E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863417E+18
-2915	3,736392E+20	9,994264E+20	1,365275E+21	1,365300E+21	9,994598E+20	3,736322E+20	7,860184E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,859739E+18
-2914	3,735889E+20	9,994627E+20	1,365369E+21	1,365371E+21	9,994892E+20	3,736433E+20	7,864005E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866123E+18
-2913	3,736804E+20	9,995557E+20	1,365424E+21	1,365379E+21	9,994568E+20	3,735852E+20	7,859397E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,859759E+18
-2912	3,736443E+20	9,995030E+20	1,365420E+21	1,365453E+21	9,995625E+20	3,736802E+20	7,860352E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,860407E+18
-2911	3,736206E+20	9,995600E+20	1,365495E+21	1,365492E+21	9,995597E+20	3,736417E+20	7,863231E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864489E+18
-2910	3,737008E+20	9,995909E+20	1,365488E+21	1,365475E+21	9,995530E+20	3,736334E+20	7,857926E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,858119E+18
-2909	3,736323E+20	9,995276E+20	1,365475E+21	1,365514E+21	9,996130E+20	3,737082E+20	7,862586E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862832E+18
-2908	3,736576E+20	9,995902E+20	1,365498E+21	1,365480E+21	9,995391E+20	3,736177E+20	7,861823E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861819E+18
-2907	3,736870E+20	9,995594E+20	1,365439E+21	1,365437E+21	9,995443E+20	3,736544E+20	7,858116E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,858989E+18
-2906	3,736010E+20	9,995026E+20	1,365440E+21	1,365447E+21	9,995436E+20	3,736731E+20	7,865212E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864446E+18
-2905	3,736608E+20	9,995395E+20	1,365416E+21	1,365373E+21	9,994431E+20	3,735717E+20	7,859141E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861673E+18
-2904	3,736379E+20	9,994408E+20	1,365309E+21	1,365336E+21	9,994753E+20	3,736392E+20	7,860208E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861081E+18
-2903	3,735747E+20	9,994252E+20	1,365308E+21	1,365308E+21	9,994354E+20	3,736088E+20	7,864931E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865884E+18
-2902	3,736486E+20	9,994444E+20	1,365268E+21	1,365233E+21	9,993612E+20	3,735578E+20	7,859371E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,860974E+18
-2901	3,735738E+20	9,993382E+20	1,365202E+21	1,365234E+21	9,994059E+20	3,736365E+20	7,864969E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861883E+18
-2900	3,735565E+20	9,993641E+20	1,365216E+21	1,365203E+21	9,993369E+20	3,735534E+20	7,863667E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865457E+18
-2899	3,736146E+20	9,993524E+20	1,365163E+21	1,365159E+21	9,993322E+20	3,735649E+20	7,860165E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,860292E+18
-2898	3,735420E+20	9,993043E+20	1,365174E+21	1,365208E+21	9,993845E+20	3,736198E+20	7,864871E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865483E+18
-2897	3,736076E+20	9,994079E+20	1,365229E+21	1,365197E+21	9,993252E+20	3,735318E+20	7,860796E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864354E+18
-2896	3,736302E+20	9,993927E+20	1,365219E+21	1,365231E+21	9,994016E+20	3,736084E+20	7,860278E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,859468E+18
-2895	3,735638E+20	9,994123E+20	1,365309E+21	1,365312E+21	9,994422E+20	3,736272E+20	7,864714E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866211E+18
-2894	3,736540E+20	9,994933E+20	1,365358E+21	1,365331E+21	9,994207E+20	3,735709E+20	7,860321E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,859610E+18
-2893	3,736174E+20	9,994393E+20	1,365338E+21	1,365384E+21	9,995199E+20	3,736685E+20	7,861218E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,860799E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-2892	3,735935E+20	9,994853E+20	1,365395E+21	1,365398E+21	9,994956E+20	3,736208E+20	7,863843E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865041E+18
-2891	3,736793E+20	9,995243E+20	1,365387E+21	1,365372E+21	9,994813E+20	3,736076E+20	7,858084E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,858968E+18
-2890	3,736133E+20	9,994681E+20	1,365378E+21	1,365407E+21	9,995356E+20	3,736828E+20	7,863302E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863600E+18
-2889	3,736349E+20	9,995320E+20	1,365412E+21	1,365380E+21	9,994547E+20	3,735854E+20	7,862189E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862762E+18
-2888	3,736629E+20	9,994878E+20	1,365343E+21	1,365341E+21	9,994654E+20	3,736182E+20	7,858198E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,859468E+18
-2887	3,735693E+20	9,994166E+20	1,365326E+21	1,365342E+21	9,994700E+20	3,736442E+20	7,865573E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865371E+18
-2886	3,736353E+20	9,994571E+20	1,365306E+21	1,365278E+21	9,993759E+20	3,735477E+20	7,859966E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862160E+18
-2885	3,736115E+20	9,993696E+20	1,365202E+21	1,365230E+21	9,994048E+20	3,736208E+20	7,861650E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861183E+18
-2884	3,735402E+20	9,993437E+20	1,365199E+21	1,365194E+21	9,993511E+20	3,735835E+20	7,865986E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866044E+18
-2883	3,736130E+20	9,993596E+20	1,365159E+21	1,365125E+21	9,992801E+20	3,735268E+20	7,859832E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861655E+18
-2882	3,735441E+20	9,992564E+20	1,365090E+21	1,365127E+21	9,993306E+20	3,736063E+20	7,865124E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863149E+18
-2881	3,735364E+20	9,992974E+20	1,365116E+21	1,365099E+21	9,992581E+20	3,735201E+20	7,863343E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866991E+18
-2880	3,736022E+20	9,992937E+20	1,365073E+21	1,365068E+21	9,992623E+20	3,735338E+20	7,859932E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,860723E+18
-2879	3,735246E+20	9,992517E+20	1,365093E+21	1,365124E+21	9,993260E+20	3,736008E+20	7,865303E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865929E+18
-2878	3,735887E+20	9,993598E+20	1,365169E+21	1,365136E+21	9,992777E+20	3,735201E+20	7,862286E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863816E+18
-2877	3,736024E+20	9,993409E+20	1,365157E+21	1,365172E+21	9,993580E+20	3,735984E+20	7,861698E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,859211E+18
-2876	3,735303E+20	9,993386E+20	1,365224E+21	1,365236E+21	9,993881E+20	3,736086E+20	7,865484E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866549E+18
-2875	3,736268E+20	9,994179E+20	1,365259E+21	1,365242E+21	9,993627E+20	3,735471E+20	7,860347E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,860523E+18
-2874	3,735999E+20	9,993764E+20	1,365239E+21	1,365286E+21	9,994561E+20	3,736453E+20	7,861309E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862054E+18
-2873	3,735814E+20	9,994371E+20	1,365310E+21	1,365299E+21	9,994200E+20	3,735932E+20	7,864026E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865843E+18
-2872	3,736621E+20	9,994715E+20	1,365309E+21	1,365282E+21	9,994069E+20	3,735778E+20	7,858263E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,859008E+18
-2871	3,735839E+20	9,994001E+20	1,365293E+21	1,365321E+21	9,994675E+20	3,736561E+20	7,863740E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864130E+18
-2870	3,736065E+20	9,994557E+20	1,365321E+21	1,365299E+21	9,993941E+20	3,735624E+20	7,862926E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863155E+18
-2869	3,736347E+20	9,994132E+20	1,365242E+21	1,365246E+21	9,994011E+20	3,735965E+20	7,859046E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,860158E+18
-2868	3,735402E+20	9,993316E+20	1,365209E+21	1,365229E+21	9,993912E+20	3,736168E+20	7,866165E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866004E+18
-2867	3,736088E+20	9,993789E+20	1,365189E+21	1,365158E+21	9,992954E+20	3,735197E+20	7,860456E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863031E+18
-2866	3,735848E+20	9,992967E+20	1,365095E+21	1,365113E+21	9,993206E+20	3,735939E+20	7,862641E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861992E+18
-2865	3,735125E+20	9,992682E+20	1,365098E+21	1,365086E+21	9,992634E+20	3,735499E+20	7,866327E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866997E+18
-2864	3,735852E+20	9,992779E+20	1,365052E+21	1,365021E+21	9,992005E+20	3,734919E+20	7,859891E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862248E+18
-2863	3,735165E+20	9,991755E+20	1,364979E+21	1,365021E+21	9,992578E+20	3,735783E+20	7,865230E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864075E+18
-2862	3,735171E+20	9,992299E+20	1,365024E+21	1,365012E+21	9,991969E+20	3,735012E+20	7,864225E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867147E+18
-2861	3,735818E+20	9,992439E+20	1,364997E+21	1,364986E+21	9,992060E+20	3,735201E+20	7,861323E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,860447E+18
-2860	3,734956E+20	9,991902E+20	1,365018E+21	1,365044E+21	9,992641E+20	3,735823E+20	7,866277E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865760E+18
-2859	3,735590E+20	9,992942E+20	1,365091E+21	1,365063E+21	9,992250E+20	3,734996E+20	7,862792E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864223E+18
-2858	3,735779E+20	9,992766E+20	1,365073E+21	1,365092E+21	9,993040E+20	3,735766E+20	7,861728E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,860450E+18
-2857	3,735150E+20	9,992793E+20	1,365140E+21	1,365150E+21	9,993250E+20	3,735813E+20	7,865079E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867850E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-2856	3,736151E+20	9,993634E+20	1,365176E+21	1,365156E+21	9,992992E+20	3,735183E+20	7,859909E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861173E+18
-2855	3,735845E+20	9,993243E+20	1,365154E+21	1,365193E+21	9,993923E+20	3,736240E+20	7,861592E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862676E+18
-2854	3,735621E+20	9,993818E+20	1,365239E+21	1,365223E+21	9,993607E+20	3,735770E+20	7,865377E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865568E+18
-2853	3,736333E+20	9,994090E+20	1,365231E+21	1,365203E+21	9,993466E+20	3,735598E+20	7,859596E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,859054E+18
-2852	3,735486E+20	9,993140E+20	1,365188E+21	1,365222E+21	9,993950E+20	3,736293E+20	7,864447E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864567E+18
-2851	3,735769E+20	9,993711E+20	1,365206E+21	1,365187E+21	9,993204E+20	3,735346E+20	7,863128E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864174E+18
-2850	3,736114E+20	9,993389E+20	1,365130E+21	1,365129E+21	9,993211E+20	3,735687E+20	7,859549E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861384E+18
-2849	3,735207E+20	9,992654E+20	1,365106E+21	1,365113E+21	9,993038E+20	3,735857E+20	7,866598E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866648E+18
-2848	3,735813E+20	9,993056E+20	1,365091E+21	1,365053E+21	9,992113E+20	3,734867E+20	7,860896E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863292E+18
-2847	3,735491E+20	9,992107E+20	1,364988E+21	1,365009E+21	9,992445E+20	3,735654E+20	7,863284E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862579E+18
-2846	3,734811E+20	9,991789E+20	1,364993E+21	1,364991E+21	9,991955E+20	3,735265E+20	7,867133E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867355E+18
-2845	3,735558E+20	9,991990E+20	1,364947E+21	1,364921E+21	9,991326E+20	3,734703E+20	7,860830E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862750E+18
-2844	3,734902E+20	9,990975E+20	1,364871E+21	1,364913E+21	9,991824E+20	3,735522E+20	7,865712E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864534E+18
-2843	3,734963E+20	9,991679E+20	1,364928E+21	1,364908E+21	9,991281E+20	3,734798E+20	7,864873E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867640E+18
-2842	3,735594E+20	9,991891E+20	1,364921E+21	1,364899E+21	9,991398E+20	3,734988E+20	7,862195E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861168E+18
-2841	3,734760E+20	9,991336E+20	1,364945E+21	1,364966E+21	9,991987E+20	3,735545E+20	7,866328E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866596E+18
-2840	3,735381E+20	9,992294E+20	1,365008E+21	1,364987E+21	9,991673E+20	3,734716E+20	7,862578E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864812E+18
-2839	3,735578E+20	9,992131E+20	1,364987E+21	1,365010E+21	9,992490E+20	3,735548E+20	7,861468E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861460E+18
-2838	3,735021E+20	9,992234E+20	1,365064E+21	1,365076E+21	9,992736E+20	3,735671E+20	7,865875E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867768E+18
-2837	3,735951E+20	9,993170E+20	1,365108E+21	1,365079E+21	9,992454E+20	3,735062E+20	7,861159E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,860852E+18
-2836	3,735557E+20	9,992607E+20	1,365076E+21	1,365109E+21	9,993253E+20	3,736025E+20	7,862505E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862595E+18
-2835	3,735326E+20	9,993109E+20	1,365148E+21	1,365134E+21	9,992979E+20	3,735540E+20	7,865987E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866028E+18
-2834	3,736061E+20	9,993365E+20	1,365135E+21	1,365108E+21	9,992781E+20	3,735333E+20	7,859898E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,860462E+18
-2833	3,735304E+20	9,992431E+20	1,365088E+21	1,365119E+21	9,993158E+20	3,735959E+20	7,864318E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865749E+18
-2832	3,735582E+20	9,993013E+20	1,365103E+21	1,365083E+21	9,992426E+20	3,735025E+20	7,863074E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864919E+18
-2831	3,735868E+20	9,992686E+20	1,365028E+21	1,365019E+21	9,992430E+20	3,735432E+20	7,860214E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862101E+18
-2830	3,734929E+20	9,991867E+20	1,365013E+21	1,365018E+21	9,992305E+20	3,735648E+20	7,868062E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866446E+18
-2829	3,735438E+20	9,992201E+20	1,364987E+21	1,364954E+21	9,991390E+20	3,734640E+20	7,862210E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863640E+18
-2828	3,735107E+20	9,991084E+20	1,364859E+21	1,364889E+21	9,991595E+20	3,735345E+20	7,864011E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863100E+18
-2827	3,734531E+20	9,990902E+20	1,364864E+21	1,364867E+21	9,991141E+20	3,734979E+20	7,867408E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868272E+18
-2826	3,735344E+20	9,991303E+20	1,364839E+21	1,364805E+21	9,990502E+20	3,734430E+20	7,861515E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863779E+18
-2825	3,734743E+20	9,990423E+20	1,364785E+21	1,364813E+21	9,991013E+20	3,735218E+20	7,865936E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865052E+18
-2824	3,734746E+20	9,991121E+20	1,364855E+21	1,364830E+21	9,990609E+20	3,734513E+20	7,865025E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867978E+18
-2823	3,735331E+20	9,991254E+20	1,364845E+21	1,364827E+21	9,990863E+20	3,734764E+20	7,862355E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861900E+18
-2822	3,734555E+20	9,990686E+20	1,364872E+21	1,364903E+21	9,991540E+20	3,735391E+20	7,866801E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866755E+18
-2821	3,735159E+20	9,991700E+20	1,364931E+21	1,364916E+21	9,991210E+20	3,734577E+20	7,863341E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864946E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-2820	3,735347E+20	9,991476E+20	1,364897E+21	1,364921E+21	9,991878E+20	3,735362E+20	7,862070E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861569E+18
-2819	3,734824E+20	9,991679E+20	1,364976E+21	1,364982E+21	9,992121E+20	3,735514E+20	7,866884E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867789E+18
-2818	3,735696E+20	9,992597E+20	1,365031E+21	1,364994E+21	9,991784E+20	3,734863E+20	7,862230E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861548E+18
-2817	3,735345E+20	9,991965E+20	1,364993E+21	1,365024E+21	9,992530E+20	3,735712E+20	7,862658E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863535E+18
-2816	3,735106E+20	9,992402E+20	1,365053E+21	1,365043E+21	9,992273E+20	3,735214E+20	7,865768E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866903E+18
-2815	3,735845E+20	9,992660E+20	1,365036E+21	1,365011E+21	9,992088E+20	3,735055E+20	7,859812E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,861703E+18
-2814	3,735129E+20	9,991771E+20	1,364998E+21	1,365027E+21	9,992492E+20	3,735760E+20	7,865361E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865648E+18
-2813	3,735288E+20	9,992341E+20	1,365013E+21	1,364988E+21	9,991741E+20	3,734845E+20	7,864476E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864774E+18
-2812	3,735474E+20	9,991786E+20	1,364920E+21	1,364913E+21	9,991618E+20	3,735167E+20	7,861373E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862258E+18
-2811	3,734579E+20	9,990926E+20	1,364886E+21	1,364900E+21	9,991521E+20	3,735378E+20	7,868807E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866972E+18
-2810	3,735102E+20	9,991289E+20	1,364864E+21	1,364834E+21	9,990539E+20	3,734334E+20	7,862655E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865214E+18
-2809	3,734919E+20	9,990304E+20	1,364743E+21	1,364768E+21	9,990660E+20	3,734948E+20	7,863786E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864292E+18
-2808	3,734365E+20	9,990251E+20	1,364759E+21	1,364756E+21	9,990290E+20	3,734631E+20	7,867228E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869043E+18
-2807	3,735135E+20	9,990730E+20	1,364756E+21	1,364711E+21	9,989782E+20	3,734182E+20	7,862143E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864393E+18
-2806	3,734518E+20	9,989833E+20	1,364719E+21	1,364745E+21	9,990435E+20	3,735045E+20	7,867115E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864745E+18
-2805	3,734430E+20	9,990456E+20	1,364780E+21	1,364763E+21	9,990133E+20	3,734369E+20	7,866144E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868038E+18
-2804	3,735001E+20	9,990431E+20	1,364747E+21	1,364742E+21	9,990285E+20	3,734560E+20	7,862929E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862235E+18
-2803	3,734347E+20	9,989985E+20	1,364766E+21	1,364807E+21	9,990970E+20	3,735214E+20	7,867190E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867147E+18
-2802	3,734950E+20	9,991125E+20	1,364843E+21	1,364824E+21	9,990575E+20	3,734391E+20	7,864150E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865665E+18
-2801	3,735198E+20	9,990986E+20	1,364821E+21	1,364833E+21	9,991144E+20	3,735080E+20	7,862305E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862043E+18
-2800	3,734625E+20	9,991154E+20	1,364905E+21	1,364906E+21	9,991446E+20	3,735223E+20	7,866976E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868262E+18
-2799	3,735462E+20	9,991995E+20	1,364954E+21	1,364920E+21	9,991204E+20	3,734613E+20	7,862232E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862681E+18
-2798	3,735166E+20	9,991348E+20	1,364917E+21	1,364952E+21	9,991984E+20	3,735500E+20	7,863025E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864039E+18
-2797	3,734893E+20	9,991783E+20	1,364968E+21	1,364963E+21	9,991715E+20	3,735023E+20	7,866357E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867271E+18
-2796	3,735576E+20	9,991904E+20	1,364929E+21	1,364907E+21	9,991370E+20	3,734828E+20	7,860604E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862048E+18
-2795	3,734868E+20	9,991038E+20	1,364885E+21	1,364914E+21	9,991748E+20	3,735559E+20	7,866740E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865587E+18
-2794	3,734918E+20	9,991502E+20	1,364906E+21	1,364879E+21	9,990908E+20	3,734586E+20	7,865744E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865669E+18
-2793	3,735164E+20	9,990864E+20	1,364798E+21	1,364794E+21	9,990681E+20	3,734786E+20	7,861765E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863261E+18
-2792	3,734306E+20	9,990051E+20	1,364760E+21	1,364777E+21	9,990590E+20	3,734982E+20	7,868563E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868023E+18
-2791	3,734865E+20	9,990519E+20	1,364749E+21	1,364715E+21	9,989686E+20	3,734012E+20	7,862710E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866426E+18
-2790	3,734735E+20	9,989689E+20	1,364654E+21	1,364671E+21	9,989919E+20	3,734708E+20	7,864765E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864134E+18
-2789	3,734087E+20	9,989665E+20	1,364683E+21	1,364674E+21	9,989653E+20	3,734446E+20	7,868415E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868789E+18
-2788	3,734754E+20	9,989918E+20	1,364664E+21	1,364629E+21	9,989148E+20	3,733966E+20	7,863320E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864376E+18
-2787	3,734205E+20	9,989036E+20	1,364615E+21	1,364656E+21	9,989891E+20	3,734860E+20	7,867829E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865003E+18
-2786	3,734119E+20	9,989679E+20	1,364682E+21	1,364673E+21	9,989522E+20	3,734162E+20	7,866679E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869279E+18
-2785	3,734836E+20	9,989762E+20	1,364647E+21	1,364645E+21	9,989570E+20	3,734261E+20	7,862699E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863214E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-2784	3,734232E+20	9,989484E+20	1,364676E+21	1,364711E+21	9,990257E+20	3,734931E+20	7,866915E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867908E+18
-2783	3,734789E+20	9,990676E+20	1,364773E+21	1,364744E+21	9,989946E+20	3,734173E+20	7,864569E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866436E+18
-2782	3,735035E+20	9,990531E+20	1,364767E+21	1,364773E+21	9,990603E+20	3,734882E+20	7,863096E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862181E+18
-2781	3,734386E+20	9,990591E+20	1,364836E+21	1,364844E+21	9,990972E+20	3,735040E+20	7,867661E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868472E+18
-2780	3,735176E+20	9,991248E+20	1,364859E+21	1,364836E+21	9,990623E+20	3,734401E+20	7,862732E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863194E+18
-2779	3,734967E+20	9,990685E+20	1,364811E+21	1,364852E+21	9,991375E+20	3,735315E+20	7,863790E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864161E+18
-2778	3,734608E+20	9,991106E+20	1,364871E+21	1,364862E+21	9,991014E+20	3,734831E+20	7,867524E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867772E+18
-2777	3,735310E+20	9,991194E+20	1,364831E+21	1,364802E+21	9,990526E+20	3,734510E+20	7,861124E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862664E+18
-2776	3,734577E+20	9,990258E+20	1,364777E+21	1,364806E+21	9,990889E+20	3,735207E+20	7,866986E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866281E+18
-2775	3,734605E+20	9,990650E+20	1,364793E+21	1,364771E+21	9,990117E+20	3,734261E+20	7,865742E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867086E+18
-2774	3,734932E+20	9,990087E+20	1,364695E+21	1,364690E+21	9,989886E+20	3,734477E+20	7,862265E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863893E+18
-2773	3,734061E+20	9,989335E+20	1,364657E+21	1,364675E+21	9,989838E+20	3,734709E+20	7,869056E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868309E+18
-2772	3,734559E+20	9,989736E+20	1,364638E+21	1,364604E+21	9,988898E+20	3,733770E+20	7,863746E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866701E+18
-2771	3,734455E+20	9,988979E+20	1,364549E+21	1,364566E+21	9,989210E+20	3,734507E+20	7,866230E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863997E+18
-2770	3,733714E+20	9,988857E+20	1,364587E+21	1,364583E+21	9,988970E+20	3,734228E+20	7,869567E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869751E+18
-2769	3,734471E+20	9,989066E+20	1,364554E+21	1,364529E+21	9,988409E+20	3,733645E+20	7,863504E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865456E+18
-2768	3,734000E+20	9,988303E+20	1,364505E+21	1,364551E+21	9,989140E+20	3,734533E+20	7,867280E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866143E+18
-2767	3,733952E+20	9,989065E+20	1,364586E+21	1,364576E+21	9,988851E+20	3,733906E+20	7,866547E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870360E+18
-2766	3,734712E+20	9,989333E+20	1,364582E+21	1,364567E+21	9,988961E+20	3,734063E+20	7,863359E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863122E+18
-2765	3,734038E+20	9,989085E+20	1,364622E+21	1,364648E+21	9,989732E+20	3,734760E+20	7,867615E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867726E+18
-2764	3,734494E+20	9,990042E+20	1,364698E+21	1,364674E+21	9,989429E+20	3,734005E+20	7,865556E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866484E+18
-2763	3,734796E+20	9,989907E+20	1,364679E+21	1,364697E+21	9,990143E+20	3,734724E+20	7,863825E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862402E+18
-2762	3,734116E+20	9,989925E+20	1,364751E+21	1,364764E+21	9,990414E+20	3,734848E+20	7,868289E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869427E+18
-2761	3,734985E+20	9,990566E+20	1,364760E+21	1,364740E+21	9,989921E+20	3,734114E+20	7,862826E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863972E+18
-2760	3,734777E+20	9,990091E+20	1,364713E+21	1,364747E+21	9,990593E+20	3,735027E+20	7,863962E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864761E+18
-2759	3,734342E+20	9,990432E+20	1,364780E+21	1,364763E+21	9,990259E+20	3,734574E+20	7,868176E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868470E+18
-2758	3,735024E+20	9,990468E+20	1,364743E+21	1,364710E+21	9,989797E+20	3,734245E+20	7,862039E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863153E+18
-2757	3,734273E+20	9,989457E+20	1,364671E+21	1,364706E+21	9,990158E+20	3,734920E+20	7,867538E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866739E+18
-2756	3,734269E+20	9,989702E+20	1,364664E+21	1,364651E+21	9,989298E+20	3,733972E+20	7,866229E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867865E+18
-2755	3,734690E+20	9,989302E+20	1,364570E+21	1,364568E+21	9,989095E+20	3,734215E+20	7,863295E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864064E+18
-2754	3,733744E+20	9,988591E+20	1,364554E+21	1,364564E+21	9,989029E+20	3,734458E+20	7,870157E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868897E+18
-2753	3,734264E+20	9,988954E+20	1,364536E+21	1,364499E+21	9,988059E+20	3,733449E+20	7,864392E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867386E+18
-2752	3,734161E+20	9,988209E+20	1,364445E+21	1,364464E+21	9,988423E+20	3,734176E+20	7,866287E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864953E+18
-2751	3,733443E+20	9,988064E+20	1,364486E+21	1,364487E+21	9,988298E+20	3,733947E+20	7,869331E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871201E+18
-2750	3,734289E+20	9,988418E+20	1,364466E+21	1,364441E+21	9,987771E+20	3,733393E+20	7,863694E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866195E+18
-2749	3,733844E+20	9,987759E+20	1,364419E+21	1,364464E+21	9,988540E+20	3,734316E+20	7,867440E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866288E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-2748	3,733718E+20	9,988458E+20	1,364499E+21	1,364485E+21	9,988236E+20	3,733744E+20	7,867592E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870310E+18
-2747	3,734494E+20	9,988810E+20	1,364505E+21	1,364487E+21	9,988405E+20	3,733922E+20	7,864878E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,862655E+18
-2746	3,733719E+20	9,988449E+20	1,364552E+21	1,364579E+21	9,989198E+20	3,734592E+20	7,868715E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868376E+18
-2745	3,734252E+20	9,989337E+20	1,364609E+21	1,364592E+21	9,988824E+20	3,733746E+20	7,865814E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867292E+18
-2744	3,734620E+20	9,989300E+20	1,364586E+21	1,364603E+21	9,989463E+20	3,734433E+20	7,863336E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863483E+18
-2743	3,733953E+20	9,989343E+20	1,364663E+21	1,364673E+21	9,989786E+20	3,734608E+20	7,868261E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870250E+18
-2742	3,734805E+20	9,990068E+20	1,364690E+21	1,364656E+21	9,989277E+20	3,733891E+20	7,863504E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864143E+18
-2741	3,734518E+20	9,989496E+20	1,364636E+21	1,364665E+21	9,989941E+20	3,734791E+20	7,864659E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864761E+18
-2740	3,733979E+20	9,989544E+20	1,364673E+21	1,364666E+21	9,989573E+20	3,734340E+20	7,869051E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868908E+18
-2739	3,734726E+20	9,989612E+20	1,364623E+21	1,364601E+21	9,989090E+20	3,734000E+20	7,862911E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863715E+18
-2738	3,733961E+20	9,988602E+20	1,364557E+21	1,364593E+21	9,989353E+20	3,734629E+20	7,868121E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867886E+18
-2737	3,734045E+20	9,988888E+20	1,364542E+21	1,364526E+21	9,988392E+20	3,733625E+20	7,866398E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868858E+18
-2736	3,734468E+20	9,988631E+20	1,364462E+21	1,364446E+21	9,988159E+20	3,733870E+20	7,863621E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864894E+18
-2735	3,733471E+20	9,987859E+20	1,364459E+21	1,364463E+21	9,988231E+20	3,734161E+20	7,870646E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869749E+18
-2734	3,733975E+20	9,988203E+20	1,364446E+21	1,364409E+21	9,987365E+20	3,733186E+20	7,865225E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868078E+18
-2733	3,733880E+20	9,987442E+20	1,364346E+21	1,364370E+21	9,987767E+20	3,733924E+20	7,866693E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865329E+18
-2732	3,733147E+20	9,987185E+20	1,364369E+21	1,364379E+21	9,987607E+20	3,733737E+20	7,869960E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871484E+18
-2731	3,734055E+20	9,987732E+20	1,364360E+21	1,364338E+21	9,987135E+20	3,733226E+20	7,865014E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865792E+18
-2730	3,733553E+20	9,987161E+20	1,364340E+21	1,364376E+21	9,987877E+20	3,734131E+20	7,868537E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866524E+18
-2729	3,733464E+20	9,987806E+20	1,364417E+21	1,364401E+21	9,987559E+20	3,733498E+20	7,868330E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870632E+18
-2728	3,734261E+20	9,988213E+20	1,364427E+21	1,364408E+21	9,987767E+20	3,733643E+20	7,864777E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863612E+18
-2727	3,733532E+20	9,987848E+20	1,364475E+21	1,364505E+21	9,988648E+20	3,734341E+20	7,868320E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869685E+18
-2726	3,734121E+20	9,988830E+20	1,364539E+21	1,364520E+21	9,988294E+20	3,733524E+20	7,865867E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868008E+18
-2725	3,734484E+20	9,988833E+20	1,364513E+21	1,364525E+21	9,988913E+20	3,734223E+20	7,863318E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,863752E+18
-2724	3,733713E+20	9,988681E+20	1,364574E+21	1,364581E+21	9,989164E+20	3,734442E+20	7,869282E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870173E+18
-2723	3,734522E+20	9,989377E+20	1,364598E+21	1,364568E+21	9,988661E+20	3,733720E+20	7,864983E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864063E+18
-2722	3,734160E+20	9,988671E+20	1,364538E+21	1,364570E+21	9,989239E+20	3,734551E+20	7,865721E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865698E+18
-2721	3,733706E+20	9,988636E+20	1,364549E+21	1,364548E+21	9,988732E+20	3,734014E+20	7,869363E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869929E+18
-2720	3,734510E+20	9,988849E+20	1,364503E+21	1,364474E+21	9,988147E+20	3,733631E+20	7,862708E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864982E+18
-2719	3,733758E+20	9,987908E+20	1,364453E+21	1,364478E+21	9,988498E+20	3,734300E+20	7,868220E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868701E+18
-2718	3,733820E+20	9,988292E+20	1,364459E+21	1,364427E+21	9,987606E+20	3,733353E+20	7,867144E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869282E+18
-2717	3,734171E+20	9,987930E+20	1,364375E+21	1,364355E+21	9,987442E+20	3,733601E+20	7,864406E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864977E+18
-2716	3,733090E+20	9,986899E+20	1,364345E+21	1,364363E+21	9,987563E+20	3,733941E+20	7,871541E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870037E+18
-2715	3,733650E+20	9,987309E+20	1,364327E+21	1,364305E+21	9,986706E+20	3,732981E+20	7,866395E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868391E+18
-2714	3,733552E+20	9,986580E+20	1,364235E+21	1,364264E+21	9,987031E+20	3,733688E+20	7,867528E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866063E+18
-2713	3,732924E+20	9,986407E+20	1,364254E+21	1,364263E+21	9,986794E+20	3,733460E+20	7,870389E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872012E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-2712	3,733848E+20	9,987155E+20	1,364268E+21	1,364230E+21	9,986296E+20	3,732937E+20	7,865393E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866461E+18
-2711	3,733345E+20	9,986586E+20	1,364268E+21	1,364297E+21	9,987209E+20	3,733855E+20	7,868618E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867496E+18
-2710	3,733288E+20	9,987283E+20	1,364351E+21	1,364334E+21	9,987012E+20	3,733265E+20	7,868647E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871524E+18
-2709	3,734099E+20	9,987680E+20	1,364355E+21	1,364338E+21	9,987254E+20	3,733408E+20	7,864575E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864187E+18
-2708	3,733341E+20	9,987196E+20	1,364386E+21	1,364423E+21	9,988119E+20	3,734169E+20	7,868665E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869877E+18
-2707	3,733928E+20	9,988271E+20	1,364454E+21	1,364439E+21	9,987779E+20	3,733398E+20	7,867145E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867508E+18
-2706	3,734178E+20	9,988225E+20	1,364440E+21	1,364445E+21	9,988304E+20	3,734061E+20	7,864470E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864024E+18
-2705	3,733432E+20	9,987902E+20	1,364475E+21	1,364486E+21	9,988452E+20	3,734197E+20	7,870142E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870474E+18
-2704	3,734239E+20	9,988622E+20	1,364495E+21	1,364463E+21	9,987870E+20	3,733413E+20	7,864980E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865318E+18
-2703	3,733944E+20	9,987919E+20	1,364436E+21	1,364468E+21	9,988456E+20	3,734211E+20	7,865452E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867118E+18
-2702	3,733542E+20	9,987992E+20	1,364453E+21	1,364444E+21	9,987947E+20	3,733709E+20	7,869532E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870773E+18
-2701	3,734316E+20	9,988246E+20	1,364411E+21	1,364372E+21	9,987372E+20	3,733343E+20	7,863095E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865222E+18
-2700	3,733447E+20	9,987122E+20	1,364350E+21	1,364370E+21	9,987718E+20	3,734082E+20	7,869634E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868421E+18
-2699	3,733442E+20	9,987419E+20	1,364352E+21	1,364330E+21	9,986920E+20	3,733169E+20	7,869039E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869168E+18
-2698	3,733734E+20	9,986946E+20	1,364262E+21	1,364253E+21	9,986714E+20	3,733364E+20	7,865716E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865908E+18
-2697	3,732784E+20	9,985860E+20	1,364205E+21	1,364236E+21	9,986707E+20	3,733631E+20	7,871936E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870883E+18
-2696	3,733399E+20	9,986493E+20	1,364202E+21	1,364174E+21	9,985772E+20	3,732635E+20	7,866286E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869617E+18
-2695	3,733365E+20	9,985924E+20	1,364136E+21	1,364153E+21	9,986181E+20	3,733353E+20	7,867473E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866851E+18
-2694	3,732754E+20	9,985921E+20	1,364181E+21	1,364175E+21	9,986050E+20	3,733191E+20	7,870782E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872532E+18
-2693	3,733638E+20	9,986644E+20	1,364203E+21	1,364162E+21	9,985706E+20	3,732684E+20	7,865695E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866715E+18
-2692	3,733095E+20	9,985913E+20	1,364187E+21	1,364225E+21	9,986716E+20	3,733671E+20	7,868978E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867927E+18
-2691	3,733082E+20	9,986665E+20	1,364270E+21	1,364266E+21	9,986589E+20	3,733137E+20	7,869583E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871675E+18
-2690	3,733857E+20	9,987067E+20	1,364278E+21	1,364266E+21	9,986758E+20	3,733251E+20	7,865201E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,864809E+18
-2689	3,733167E+20	9,986561E+20	1,364291E+21	1,364328E+21	9,987479E+20	3,733973E+20	7,869311E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869931E+18
-2688	3,733687E+20	9,987701E+20	1,364372E+21	1,364343E+21	9,987025E+20	3,733155E+20	7,867699E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868028E+18
-2687	3,733925E+20	9,987559E+20	1,364358E+21	1,364361E+21	9,987602E+20	3,733780E+20	7,864752E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865027E+18
-2686	3,733228E+20	9,987268E+20	1,364387E+21	1,364398E+21	9,987762E+20	3,733925E+20	7,870546E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871441E+18
-2685	3,734046E+20	9,987963E+20	1,364398E+21	1,364365E+21	9,987149E+20	3,733120E+20	7,864941E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865990E+18
-2684	3,733710E+20	9,987160E+20	1,364327E+21	1,364360E+21	9,987716E+20	3,733959E+20	7,866086E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867304E+18
-2683	3,733282E+20	9,987303E+20	1,364353E+21	1,364345E+21	9,987243E+20	3,733512E+20	7,871018E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870361E+18
-2682	3,733924E+20	9,987446E+20	1,364318E+21	1,364277E+21	9,986626E+20	3,733115E+20	7,864530E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865656E+18
-2681	3,733087E+20	9,986146E+20	1,364227E+21	1,364258E+21	9,986904E+20	3,733795E+20	7,870641E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868826E+18
-2680	3,733089E+20	9,986492E+20	1,364228E+21	1,364207E+21	9,986025E+20	3,732833E+20	7,869144E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870707E+18
-2679	3,733472E+20	9,986053E+20	1,364141E+21	1,364136E+21	9,985844E+20	3,732998E+20	7,865510E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867491E+18
-2678	3,732635E+20	9,985181E+20	1,364093E+21	1,364120E+21	9,985853E+20	3,733298E+20	7,871832E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871932E+18
-2677	3,733228E+20	9,985917E+20	1,364107E+21	1,364068E+21	9,984966E+20	3,732332E+20	7,866459E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869958E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-2676	3,733111E+20	9,985271E+20	1,364048E+21	1,364060E+21	9,985463E+20	3,733122E+20	7,868436E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866740E+18
-2675	3,732472E+20	9,985260E+20	1,364101E+21	1,364104E+21	9,985506E+20	3,733032E+20	7,872281E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872409E+18
-2674	3,733302E+20	9,985919E+20	1,364123E+21	1,364093E+21	9,985207E+20	3,732524E+20	7,866851E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867343E+18
-2673	3,732870E+20	9,985164E+20	1,364083E+21	1,364133E+21	9,986110E+20	3,733464E+20	7,869404E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868284E+18
-2672	3,732872E+20	9,986076E+20	1,364178E+21	1,364169E+21	9,985910E+20	3,732911E+20	7,869755E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872309E+18
-2671	3,733661E+20	9,986530E+20	1,364201E+21	1,364184E+21	9,986113E+20	3,733004E+20	7,865314E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865410E+18
-2670	3,732996E+20	9,986081E+20	1,364218E+21	1,364250E+21	9,986838E+20	3,733741E+20	7,869791E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870332E+18
-2669	3,733447E+20	9,987107E+20	1,364296E+21	1,364269E+21	9,986429E+20	3,732899E+20	7,867907E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868430E+18
-2668	3,733663E+20	9,986825E+20	1,364263E+21	1,364274E+21	9,986978E+20	3,733544E+20	7,865194E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865628E+18
-2667	3,732997E+20	9,986557E+20	1,364290E+21	1,364311E+21	9,987147E+20	3,733727E+20	7,871575E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871587E+18
-2666	3,733763E+20	9,987257E+20	1,364302E+21	1,364272E+21	9,986484E+20	3,732904E+20	7,865745E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866748E+18
-2665	3,733473E+20	9,986407E+20	1,364213E+21	1,364244E+21	9,986892E+20	3,733695E+20	7,867053E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867441E+18
-2664	3,732965E+20	9,986558E+20	1,364249E+21	1,364231E+21	9,986355E+20	3,733211E+20	7,871622E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871201E+18
-2663	3,733596E+20	9,986575E+20	1,364210E+21	1,364175E+21	9,985804E+20	3,732767E+20	7,864852E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867141E+18
-2662	3,732851E+20	9,985329E+20	1,364108E+21	1,364144E+21	9,986070E+20	3,733458E+20	7,870896E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870082E+18
-2661	3,732855E+20	9,985686E+20	1,364110E+21	1,364090E+21	9,985176E+20	3,732487E+20	7,868954E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871586E+18
-2660	3,733220E+20	9,985253E+20	1,364022E+21	1,364016E+21	9,985007E+20	3,732714E+20	7,866174E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867635E+18
-2659	3,732374E+20	9,984507E+20	1,363996E+21	1,364020E+21	9,985118E+20	3,733096E+20	7,873252E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871431E+18
-2658	3,732858E+20	9,985206E+20	1,364024E+21	1,363985E+21	9,984314E+20	3,732142E+20	7,867917E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870207E+18
-2657	3,732801E+20	9,984470E+20	1,363945E+21	1,363968E+21	9,984805E+20	3,732886E+20	7,869319E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866992E+18
-2656	3,732193E+20	9,984560E+20	1,364008E+21	1,364010E+21	9,984833E+20	3,732775E+20	7,872306E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873681E+18
-2655	3,733099E+20	9,985236E+20	1,364035E+21	1,364012E+21	9,984599E+20	3,732250E+20	7,866701E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868593E+18
-2654	3,732776E+20	9,984696E+20	1,363999E+21	1,364047E+21	9,985493E+20	3,733222E+20	7,869274E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869044E+18
-2653	3,732716E+20	9,985618E+20	1,364104E+21	1,364085E+21	9,985282E+20	3,732680E+20	7,869985E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872307E+18
-2652	3,733398E+20	9,985918E+20	1,364123E+21	1,364104E+21	9,985516E+20	3,732814E+20	7,866163E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865433E+18
-2651	3,732735E+20	9,985430E+20	1,364137E+21	1,364180E+21	9,986309E+20	3,733575E+20	7,871041E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870446E+18
-2650	3,733139E+20	9,986368E+20	1,364205E+21	1,364189E+21	9,985874E+20	3,732713E+20	7,868787E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869338E+18
-2649	3,733455E+20	9,986067E+20	1,364149E+21	1,364166E+21	9,986245E+20	3,733277E+20	7,865628E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866204E+18
-2648	3,732784E+20	9,985944E+20	1,364190E+21	1,364197E+21	9,986316E+20	3,733430E+20	7,871742E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872288E+18
-2647	3,733515E+20	9,986610E+20	1,364212E+21	1,364175E+21	9,985696E+20	3,732597E+20	7,866054E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867609E+18
-2646	3,733241E+20	9,985778E+20	1,364120E+21	1,364146E+21	9,986107E+20	3,733392E+20	7,867617E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868145E+18
-2645	3,732665E+20	9,985766E+20	1,364147E+21	1,364133E+21	9,985608E+20	3,732895E+20	7,871744E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871866E+18
-2644	3,733265E+20	9,985652E+20	1,364090E+21	1,364065E+21	9,985054E+20	3,732490E+20	7,865383E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868026E+18
-2643	3,732579E+20	9,984468E+20	1,363988E+21	1,364036E+21	9,985317E+20	3,733216E+20	7,872016E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870235E+18
-2642	3,732529E+20	9,984855E+20	1,363996E+21	1,363979E+21	9,984410E+20	3,732256E+20	7,870005E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872088E+18
-2641	3,732927E+20	9,984442E+20	1,363902E+21	1,363891E+21	9,984110E+20	3,732440E+20	7,867490E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867492E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-2640	3,732036E+20	9,983772E+20	1,363898E+21	1,363909E+21	9,984247E+20	3,732795E+20	7,873878E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872129E+18
-2639	3,732546E+20	9,984411E+20	1,363929E+21	1,363897E+21	9,983616E+20	3,731845E+20	7,868351E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871591E+18
-2638	3,732627E+20	9,983820E+20	1,363846E+21	1,363873E+21	9,984133E+20	3,732602E+20	7,869320E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868210E+18
-2637	3,732034E+20	9,983953E+20	1,363918E+21	1,363921E+21	9,984199E+20	3,732501E+20	7,871906E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874340E+18
-2636	3,732906E+20	9,984646E+20	1,363947E+21	1,363924E+21	9,984003E+20	3,732042E+20	7,867136E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868624E+18
-2635	3,732560E+20	9,984168E+20	1,363928E+21	1,363974E+21	9,984948E+20	3,733080E+20	7,870435E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868536E+18
-2634	3,732387E+20	9,984978E+20	1,364034E+21	1,364020E+21	9,984794E+20	3,732537E+20	7,871177E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872486E+18
-2633	3,733119E+20	9,985182E+20	1,364026E+21	1,364015E+21	9,984906E+20	3,732603E+20	7,866881E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,865824E+18
-2632	3,732502E+20	9,984791E+20	1,364046E+21	1,364082E+21	9,985615E+20	3,733306E+20	7,870915E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871725E+18
-2631	3,732962E+20	9,985726E+20	1,364114E+21	1,364100E+21	9,985203E+20	3,732427E+20	7,868668E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870726E+18
-2630	3,733364E+20	9,985594E+20	1,364059E+21	1,364066E+21	9,985512E+20	3,732985E+20	7,865628E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867096E+18
-2629	3,732596E+20	9,985406E+20	1,364109E+21	1,364103E+21	9,985571E+20	3,733139E+20	7,871978E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872372E+18
-2628	3,733189E+20	9,985850E+20	1,364119E+21	1,364083E+21	9,984999E+20	3,732352E+20	7,866990E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867980E+18
-2627	3,732900E+20	9,984922E+20	1,364017E+21	1,364055E+21	9,985448E+20	3,733187E+20	7,869159E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868342E+18
-2626	3,732284E+20	9,984793E+20	1,364027E+21	1,364027E+21	9,984915E+20	3,732676E+20	7,872789E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872633E+18
-2625	3,732955E+20	9,984681E+20	1,363948E+21	1,363928E+21	9,984153E+20	3,732199E+20	7,866262E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868511E+18
-2624	3,732293E+20	9,983691E+20	1,363867E+21	1,363898E+21	9,984330E+20	3,732875E+20	7,872384E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870867E+18
-2623	3,732229E+20	9,984064E+20	1,363890E+21	1,363866E+21	9,983516E+20	3,731922E+20	7,870481E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873040E+18
-2622	3,732690E+20	9,983769E+20	1,363805E+21	1,363788E+21	9,983281E+20	3,732099E+20	7,867929E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868412E+18
-2621	3,731790E+20	9,983067E+20	1,363805E+21	1,363817E+21	9,983522E+20	3,732464E+20	7,873592E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872950E+18
-2620	3,732288E+20	9,983646E+20	1,363830E+21	1,363806E+21	9,983008E+20	3,731610E+20	7,868672E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872442E+18
-2619	3,732429E+20	9,983171E+20	1,363760E+21	1,363794E+21	9,983588E+20	3,732427E+20	7,870059E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868368E+18
-2618	3,731793E+20	9,983322E+20	1,363833E+21	1,363839E+21	9,983675E+20	3,732362E+20	7,872789E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874424E+18
-2617	3,732642E+20	9,983986E+20	1,363854E+21	1,363827E+21	9,983335E+20	3,731861E+20	7,868302E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868317E+18
-2616	3,732276E+20	9,983559E+20	1,363847E+21	1,363882E+21	9,984245E+20	3,732840E+20	7,870877E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869182E+18
-2615	3,732128E+20	9,984257E+20	1,363948E+21	1,363940E+21	9,984187E+20	3,732290E+20	7,871595E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873744E+18
-2614	3,732995E+20	9,984624E+20	1,363936E+21	1,363922E+21	9,984233E+20	3,732323E+20	7,866837E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867043E+18
-2613	3,732380E+20	9,984273E+20	1,363964E+21	1,363992E+21	9,984927E+20	3,733005E+20	7,870517E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872216E+18
-2612	3,732760E+20	9,985158E+20	1,364032E+21	1,364012E+21	9,984579E+20	3,732219E+20	7,869270E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870750E+18
-2611	3,733100E+20	9,984998E+20	1,363987E+21	1,363991E+21	9,984913E+20	3,732812E+20	7,866963E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,866771E+18
-2610	3,732219E+20	9,984595E+20	1,364020E+21	1,364025E+21	9,985010E+20	3,732964E+20	7,873273E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872477E+18
-2609	3,732811E+20	9,984881E+20	1,363996E+21	1,363971E+21	9,984255E+20	3,732105E+20	7,867951E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868652E+18
-2608	3,732579E+20	9,984026E+20	1,363893E+21	1,363926E+21	9,984562E+20	3,732866E+20	7,869432E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869615E+18
-2607	3,732028E+20	9,983890E+20	1,363902E+21	1,363903E+21	9,984037E+20	3,732338E+20	7,872927E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874093E+18
-2606	3,732794E+20	9,984000E+20	1,363828E+21	1,363794E+21	9,983176E+20	3,731839E+20	7,866594E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869481E+18
-2605	3,732062E+20	9,983019E+20	1,363769E+21	1,363783E+21	9,983391E+20	3,732495E+20	7,872452E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871153E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-2604	3,731912E+20	9,983276E+20	1,363793E+21	1,363769E+21	9,982753E+20	3,731638E+20	7,871148E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873721E+18
-2603	3,732391E+20	9,982973E+20	1,363711E+21	1,363703E+21	9,982646E+20	3,731880E+20	7,869140E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868803E+18
-2602	3,731493E+20	9,982252E+20	1,363706E+21	1,363730E+21	9,982961E+20	3,732279E+20	7,874289E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873458E+18
-2601	3,732027E+20	9,982864E+20	1,363716E+21	1,363696E+21	9,982311E+20	3,731410E+20	7,869629E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872494E+18
-2600	3,732172E+20	9,982560E+20	1,363668E+21	1,363686E+21	9,982846E+20	3,732199E+20	7,870519E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868572E+18
-2599	3,731524E+20	9,982639E+20	1,363750E+21	1,363755E+21	9,983018E+20	3,732137E+20	7,873404E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874991E+18
-2598	3,732437E+20	9,983396E+20	1,363771E+21	1,363742E+21	9,982671E+20	3,731594E+20	7,868620E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869141E+18
-2597	3,732094E+20	9,982982E+20	1,363771E+21	1,363802E+21	9,983607E+20	3,732532E+20	7,870305E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870110E+18
-2596	3,731955E+20	9,983646E+20	1,363866E+21	1,363861E+21	9,983626E+20	3,732072E+20	7,871754E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874580E+18
-2595	3,732851E+20	9,984102E+20	1,363865E+21	1,363852E+21	9,983703E+20	3,732152E+20	7,867570E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867244E+18
-2594	3,732166E+20	9,983718E+20	1,363889E+21	1,363915E+21	9,984399E+20	3,732858E+20	7,871522E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872048E+18
-2593	3,732451E+20	9,984444E+20	1,363938E+21	1,363914E+21	9,983891E+20	3,732034E+20	7,870645E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870541E+18
-2592	3,732752E+20	9,984224E+20	1,363890E+21	1,363888E+21	9,984162E+20	3,732550E+20	7,867593E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867685E+18
-2591	3,731907E+20	9,983627E+20	1,363901E+21	1,363919E+21	9,984269E+20	3,732682E+20	7,873840E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873844E+18
-2590	3,732607E+20	9,984060E+20	1,363870E+21	1,363844E+21	9,983358E+20	3,731757E+20	7,867994E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870194E+18
-2589	3,732400E+20	9,983303E+20	1,363779E+21	1,363798E+21	9,983575E+20	3,732458E+20	7,869147E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870220E+18
-2588	3,731775E+20	9,983150E+20	1,363793E+21	1,363784E+21	9,983149E+20	3,732040E+20	7,873519E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874303E+18
-2587	3,732484E+20	9,983280E+20	1,363741E+21	1,363701E+21	9,982396E+20	3,731589E+20	7,867990E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869387E+18
-2586	3,731694E+20	9,982184E+20	1,363673E+21	1,363695E+21	9,982745E+20	3,732270E+20	7,873546E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871234E+18
-2585	3,731542E+20	9,982343E+20	1,363674E+21	1,363660E+21	9,982039E+20	3,731417E+20	7,872185E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874281E+18
-2584	3,732085E+20	9,982150E+20	1,363602E+21	1,363592E+21	9,981893E+20	3,731615E+20	7,869575E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869765E+18
-2583	3,731255E+20	9,981427E+20	1,363595E+21	1,363627E+21	9,982259E+20	3,732030E+20	7,874631E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874354E+18
-2582	3,731852E+20	9,982260E+20	1,363616E+21	1,363587E+21	9,981517E+20	3,731137E+20	7,870127E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873111E+18
-2581	3,731952E+20	9,981980E+20	1,363589E+21	1,363593E+21	9,982051E+20	3,731877E+20	7,870501E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868805E+18
-2580	3,731267E+20	9,981962E+20	1,363667E+21	1,363676E+21	9,982413E+20	3,731916E+20	7,873940E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875617E+18
-2579	3,732217E+20	9,982764E+20	1,363696E+21	1,363674E+21	9,982157E+20	3,731421E+20	7,869517E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869666E+18
-2578	3,731908E+20	9,982382E+20	1,363691E+21	1,363730E+21	9,983125E+20	3,732359E+20	7,870708E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870564E+18
-2577	3,731760E+20	9,983041E+20	1,363773E+21	1,363768E+21	9,983006E+20	3,731898E+20	7,872662E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874520E+18
-2576	3,732614E+20	9,983568E+20	1,363788E+21	1,363760E+21	9,983030E+20	3,731936E+20	7,868099E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867484E+18
-2575	3,731886E+20	9,983013E+20	1,363806E+21	1,363835E+21	9,983769E+20	3,732636E+20	7,872320E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872555E+18
-2574	3,732199E+20	9,983731E+20	1,363839E+21	1,363816E+21	9,983158E+20	3,731750E+20	7,871070E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871530E+18
-2573	3,732502E+20	9,983457E+20	1,363787E+21	1,363784E+21	9,983351E+20	3,732194E+20	7,867214E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868826E+18
-2572	3,731687E+20	9,982820E+20	1,363788E+21	1,363810E+21	9,983498E+20	3,732395E+20	7,874054E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874788E+18
-2571	3,732392E+20	9,983340E+20	1,363767E+21	1,363739E+21	9,982581E+20	3,731509E+20	7,868840E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870607E+18
-2570	3,732134E+20	9,982593E+20	1,363679E+21	1,363693E+21	9,982799E+20	3,732207E+20	7,870232E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869985E+18
-2569	3,731407E+20	9,982305E+20	1,363681E+21	1,363668E+21	9,982274E+20	3,731786E+20	7,874971E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874179E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-2568	3,732085E+20	9,982398E+20	1,363631E+21	1,363591E+21	9,981576E+20	3,731300E+20	7,868970E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870200E+18
-2567	3,731354E+20	9,981199E+20	1,363551E+21	1,363588E+21	9,982005E+20	3,731995E+20	7,874273E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872447E+18
-2566	3,731324E+20	9,981528E+20	1,363550E+21	1,363537E+21	9,981195E+20	3,731109E+20	7,872440E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875640E+18
-2565	3,731887E+20	9,981458E+20	1,363497E+21	1,363479E+21	9,981026E+20	3,731259E+20	7,869362E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870331E+18
-2564	3,731035E+20	9,980756E+20	1,363499E+21	1,363529E+21	9,981527E+20	3,731778E+20	7,874989E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874601E+18
-2563	3,731578E+20	9,981624E+20	1,363543E+21	1,363512E+21	9,980892E+20	3,730933E+20	7,871189E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873193E+18
-2562	3,731677E+20	9,981319E+20	1,363511E+21	1,363523E+21	9,981527E+20	3,731674E+20	7,871065E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869008E+18
-2561	3,731006E+20	9,981261E+20	1,363572E+21	1,363586E+21	9,981811E+20	3,731733E+20	7,874693E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876139E+18
-2560	3,732015E+20	9,982187E+20	1,363611E+21	1,363587E+21	9,981563E+20	3,731211E+20	7,869865E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870500E+18
-2559	3,731750E+20	9,981790E+20	1,363604E+21	1,363647E+21	9,982554E+20	3,732163E+20	7,871171E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871240E+18
-2558	3,731609E+20	9,982551E+20	1,363690E+21	1,363675E+21	9,982309E+20	3,731667E+20	7,873272E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874901E+18
-2557	3,732372E+20	9,982999E+20	1,363715E+21	1,363677E+21	9,982277E+20	3,731614E+20	7,868075E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,867944E+18
-2556	3,731613E+20	9,982246E+20	1,363711E+21	1,363749E+21	9,983133E+20	3,732397E+20	7,872913E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873182E+18
-2555	3,731916E+20	9,982950E+20	1,363744E+21	1,363729E+21	9,982522E+20	3,731535E+20	7,871927E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872207E+18
-2554	3,732257E+20	9,982698E+20	1,363681E+21	1,363683E+21	9,982649E+20	3,731952E+20	7,867889E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869103E+18
-2553	3,731401E+20	9,982033E+20	1,363667E+21	1,363685E+21	9,982638E+20	3,732156E+20	7,875300E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874577E+18
-2552	3,732054E+20	9,982597E+20	1,363660E+21	1,363621E+21	9,981712E+20	3,731233E+20	7,869818E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870868E+18
-2551	3,731768E+20	9,981692E+20	1,363570E+21	1,363590E+21	9,981994E+20	3,731909E+20	7,871273E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870647E+18
-2550	3,731103E+20	9,981437E+20	1,363563E+21	1,363553E+21	9,981415E+20	3,731444E+20	7,875307E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875498E+18
-2549	3,731808E+20	9,981548E+20	1,363519E+21	1,363479E+21	9,980688E+20	3,730900E+20	7,868620E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871661E+18
-2548	3,731140E+20	9,980374E+20	1,363433E+21	1,363479E+21	9,981243E+20	3,731702E+20	7,874387E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873457E+18
-2547	3,731104E+20	9,980841E+20	1,363452E+21	1,363437E+21	9,980475E+20	3,730883E+20	7,873236E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876110E+18
-2546	3,731635E+20	9,980808E+20	1,363406E+21	1,363385E+21	9,980337E+20	3,731040E+20	7,870292E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870029E+18
-2545	3,730710E+20	9,980006E+20	1,363399E+21	1,363428E+21	9,980790E+20	3,731567E+20	7,876151E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874578E+18
-2544	3,731253E+20	9,980875E+20	1,363446E+21	1,363421E+21	9,980257E+20	3,730711E+20	7,872050E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873901E+18
-2543	3,731436E+20	9,980576E+20	1,363414E+21	1,363438E+21	9,980944E+20	3,731453E+20	7,871573E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870115E+18
-2542	3,730890E+20	9,980725E+20	1,363479E+21	1,363488E+21	9,981106E+20	3,731476E+20	7,874863E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877064E+18
-2541	3,731866E+20	9,981724E+20	1,363537E+21	1,363502E+21	9,980853E+20	3,730915E+20	7,869732E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870785E+18
-2540	3,731555E+20	9,981286E+20	1,363534E+21	1,363574E+21	9,981976E+20	3,731955E+20	7,871551E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871331E+18
-2539	3,731329E+20	9,981961E+20	1,363626E+21	1,363612E+21	9,981792E+20	3,731494E+20	7,874269E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874927E+18
-2538	3,732072E+20	9,982292E+20	1,363630E+21	1,363606E+21	9,981774E+20	3,731413E+20	7,868551E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,868273E+18
-2537	3,731319E+20	9,981431E+20	1,363597E+21	1,363645E+21	9,982442E+20	3,732184E+20	7,873783E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873706E+18
-2536	3,731647E+20	9,982173E+20	1,363630E+21	1,363619E+21	9,981783E+20	3,731282E+20	7,872479E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873061E+18
-2535	3,732015E+20	9,981929E+20	1,363567E+21	1,363570E+21	9,981848E+20	3,731676E+20	7,868734E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869904E+18
-2534	3,731172E+20	9,981351E+20	1,363557E+21	1,363560E+21	9,981671E+20	3,731815E+20	7,875946E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875179E+18
-2533	3,731744E+20	9,981830E+20	1,363560E+21	1,363514E+21	9,980766E+20	3,730829E+20	7,869845E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871900E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-2532	3,731472E+20	9,980814E+20	1,363454E+21	1,363485E+21	9,981219E+20	3,731589E+20	7,871705E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871803E+18
-2531	3,730826E+20	9,980597E+20	1,363455E+21	1,363451E+21	9,980686E+20	3,731179E+20	7,875877E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876569E+18
-2530	3,731565E+20	9,980766E+20	1,363407E+21	1,363373E+21	9,979960E+20	3,730637E+20	7,869186E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872012E+18
-2529	3,730848E+20	9,979586E+20	1,363313E+21	1,363356E+21	9,980416E+20	3,731477E+20	7,875587E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873184E+18
-2528	3,730753E+20	9,980083E+20	1,363350E+21	1,363331E+21	9,979713E+20	3,730651E+20	7,874364E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876139E+18
-2527	3,731279E+20	9,979969E+20	1,363303E+21	1,363290E+21	9,979639E+20	3,730799E+20	7,871434E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870448E+18
-2526	3,730451E+20	9,979274E+20	1,363294E+21	1,363325E+21	9,980034E+20	3,731280E+20	7,876396E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875627E+18
-2525	3,731044E+20	9,980239E+20	1,363358E+21	1,363331E+21	9,979520E+20	3,730382E+20	7,871720E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875102E+18
-2524	3,731306E+20	9,980010E+20	1,363328E+21	1,363357E+21	9,980362E+20	3,731214E+20	7,871534E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870932E+18
-2523	3,730741E+20	9,980287E+20	1,363416E+21	1,363417E+21	9,980581E+20	3,731306E+20	7,875497E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877263E+18
-2522	3,731647E+20	9,981238E+20	1,363475E+21	1,363436E+21	9,980340E+20	3,730738E+20	7,870512E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870318E+18
-2521	3,731229E+20	9,980593E+20	1,363446E+21	1,363491E+21	9,981383E+20	3,731786E+20	7,872680E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871284E+18
-2520	3,730989E+20	9,981155E+20	1,363526E+21	1,363525E+21	9,981232E+20	3,731298E+20	7,875159E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875545E+18
-2519	3,731791E+20	9,981450E+20	1,363517E+21	1,363505E+21	9,981126E+20	3,731183E+20	7,869153E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,869550E+18
-2518	3,731163E+20	9,980758E+20	1,363482E+21	1,363521E+21	9,981568E+20	3,731864E+20	7,873968E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874730E+18
-2517	3,731450E+20	9,981557E+20	1,363533E+21	1,363506E+21	9,980851E+20	3,730909E+20	7,872288E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873842E+18
-2516	3,731781E+20	9,981268E+20	1,363474E+21	1,363470E+21	9,981039E+20	3,731356E+20	7,869164E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870483E+18
-2515	3,730870E+20	9,980641E+20	1,363472E+21	1,363472E+21	9,980953E+20	3,731533E+20	7,876629E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875705E+18
-2514	3,731429E+20	9,981019E+20	1,363459E+21	1,363421E+21	9,980106E+20	3,730559E+20	7,870293E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872522E+18
-2513	3,731144E+20	9,979911E+20	1,363329E+21	1,363368E+21	9,980446E+20	3,731349E+20	7,872734E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872382E+18
-2512	3,730520E+20	9,979704E+20	1,363328E+21	1,363335E+21	9,979940E+20	3,730945E+20	7,876780E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877052E+18
-2511	3,731247E+20	9,979908E+20	1,363286E+21	1,363255E+21	9,979171E+20	3,730404E+20	7,870488E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872521E+18
-2510	3,730573E+20	9,978838E+20	1,363200E+21	1,363228E+21	9,979447E+20	3,731155E+20	7,876379E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873541E+18
-2509	3,730422E+20	9,979276E+20	1,363248E+21	1,363225E+21	9,978812E+20	3,730281E+20	7,874470E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877057E+18
-2508	3,731022E+20	9,979190E+20	1,363201E+21	1,363196E+21	9,978944E+20	3,730501E+20	7,871672E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871560E+18
-2507	3,730270E+20	9,978670E+20	1,363212E+21	1,363240E+21	9,979411E+20	3,731039E+20	7,876564E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876609E+18
-2506	3,730896E+20	9,979722E+20	1,363281E+21	1,363254E+21	9,978984E+20	3,730183E+20	7,872111E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875086E+18
-2505	3,731079E+20	9,979471E+20	1,363248E+21	1,363270E+21	9,979771E+20	3,731054E+20	7,872440E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870633E+18
-2504	3,730448E+20	9,979662E+20	1,363339E+21	1,363345E+21	9,980071E+20	3,731145E+20	7,876483E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877080E+18
-2503	3,731309E+20	9,980480E+20	1,363388E+21	1,363362E+21	9,979832E+20	3,730555E+20	7,871395E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870966E+18
-2502	3,730998E+20	9,979888E+20	1,363344E+21	1,363388E+21	9,980663E+20	3,731510E+20	7,872729E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872508E+18
-2501	3,730793E+20	9,980456E+20	1,363428E+21	1,363424E+21	9,980449E+20	3,730964E+20	7,874742E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876918E+18
-2500	3,731658E+20	9,980826E+20	1,363417E+21	1,363404E+21	9,980407E+20	3,730900E+20	7,869159E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870644E+18
-2499	3,731007E+20	9,980257E+20	1,363404E+21	1,363426E+21	9,980825E+20	3,731603E+20	7,874523E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875093E+18
-2498	3,731199E+20	9,980956E+20	1,363454E+21	1,363418E+21	9,980140E+20	3,730654E+20	7,873038E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873641E+18
-2497	3,731405E+20	9,980422E+20	1,363368E+21	1,363368E+21	9,980294E+20	3,731118E+20	7,870493E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870666E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-2496	3,730491E+20	9,979683E+20	1,363352E+21	1,363369E+21	9,980284E+20	3,731303E+20	7,877756E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876172E+18
-2495	3,731074E+20	9,980034E+20	1,363328E+21	1,363303E+21	9,979353E+20	3,730323E+20	7,871459E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873595E+18
-2494	3,730880E+20	9,979057E+20	1,363196E+21	1,363226E+21	9,979471E+20	3,731032E+20	7,873538E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872990E+18
-2493	3,730222E+20	9,978886E+20	1,363214E+21	1,363209E+21	9,978942E+20	3,730574E+20	7,876902E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877652E+18
-2492	3,730939E+20	9,979087E+20	1,363177E+21	1,363144E+21	9,978315E+20	3,730075E+20	7,871038E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873196E+18
-2491	3,730282E+20	9,978101E+20	1,363108E+21	1,363133E+21	9,978690E+20	3,730841E+20	7,876615E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874356E+18
-2490	3,730183E+20	9,978566E+20	1,363156E+21	1,363136E+21	9,978160E+20	3,730010E+20	7,874565E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877710E+18
-2489	3,730783E+20	9,978481E+20	1,363102E+21	1,363099E+21	9,978288E+20	3,730282E+20	7,872328E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872122E+18
-2488	3,730074E+20	9,978046E+20	1,363122E+21	1,363156E+21	9,978877E+20	3,730862E+20	7,877228E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876833E+18
-2487	3,730656E+20	9,979120E+20	1,363197E+21	1,363170E+21	9,978444E+20	3,730041E+20	7,873354E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875304E+18
-2486	3,730842E+20	9,978885E+20	1,363166E+21	1,363177E+21	9,979058E+20	3,730815E+20	7,872978E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871009E+18
-2485	3,730175E+20	9,978944E+20	1,363255E+21	1,363262E+21	9,979378E+20	3,730849E+20	7,876388E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877982E+18
-2484	3,731088E+20	9,979754E+20	1,363293E+21	1,363275E+21	9,979227E+20	3,730300E+20	7,871412E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872244E+18
-2483	3,730863E+20	9,979342E+20	1,363262E+21	1,363296E+21	9,979992E+20	3,731252E+20	7,872733E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873562E+18
-2482	3,730662E+20	9,979943E+20	1,363346E+21	1,363334E+21	9,979797E+20	3,730737E+20	7,875182E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876782E+18
-2481	3,731401E+20	9,980229E+20	1,363331E+21	1,363306E+21	9,979689E+20	3,730698E+20	7,870343E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870402E+18
-2480	3,730675E+20	9,979513E+20	1,363313E+21	1,363340E+21	9,980193E+20	3,731394E+20	7,875845E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874720E+18
-2479	3,730793E+20	9,980047E+20	1,363347E+21	1,363325E+21	9,979517E+20	3,730451E+20	7,874294E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874332E+18
-2478	3,731086E+20	9,979527E+20	1,363247E+21	1,363245E+21	9,979423E+20	3,730797E+20	7,870956E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871907E+18
-2477	3,730214E+20	9,978750E+20	1,363227E+21	1,363245E+21	9,979354E+20	3,730933E+20	7,877578E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877461E+18
-2476	3,730840E+20	9,979192E+20	1,363203E+21	1,363179E+21	9,978487E+20	3,729998E+20	7,871694E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874912E+18
-2475	3,730659E+20	9,978386E+20	1,363095E+21	1,363105E+21	9,978542E+20	3,730706E+20	7,874148E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873542E+18
-2474	3,729946E+20	9,978131E+20	1,363115E+21	1,363102E+21	9,978103E+20	3,730264E+20	7,877426E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877664E+18
-2473	3,730572E+20	9,978197E+20	1,363063E+21	1,363035E+21	9,977522E+20	3,729805E+20	7,872116E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873691E+18
-2472	3,729982E+20	9,977229E+20	1,362996E+21	1,363035E+21	9,978039E+20	3,730594E+20	7,877308E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874884E+18
-2471	3,729922E+20	9,977792E+20	1,363050E+21	1,363037E+21	9,977531E+20	3,729822E+20	7,875523E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878622E+18
-2470	3,730596E+20	9,977875E+20	1,363006E+21	1,362990E+21	9,977504E+20	3,730025E+20	7,872910E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872517E+18
-2469	3,729848E+20	9,977456E+20	1,363044E+21	1,363066E+21	9,978134E+20	3,730587E+20	7,877264E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877108E+18
-2468	3,730396E+20	9,978478E+20	1,363118E+21	1,363094E+21	9,977858E+20	3,729812E+20	7,873823E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875804E+18
-2467	3,730606E+20	9,978302E+20	1,363094E+21	1,363102E+21	9,978478E+20	3,730579E+20	7,873038E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,871838E+18
-2466	3,729993E+20	9,978315E+20	1,363173E+21	1,363184E+21	9,978829E+20	3,730631E+20	7,876497E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878336E+18
-2465	3,730861E+20	9,979068E+20	1,363197E+21	1,363183E+21	9,978612E+20	3,730119E+20	7,872180E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872662E+18
-2464	3,730672E+20	9,978720E+20	1,363171E+21	1,363210E+21	9,979414E+20	3,731069E+20	7,873684E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873516E+18
-2463	3,730392E+20	9,979309E+20	1,363259E+21	1,363241E+21	9,979138E+20	3,730575E+20	7,876751E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876820E+18
-2462	3,731092E+20	9,979504E+20	1,363235E+21	1,363200E+21	9,978845E+20	3,730409E+20	7,871221E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,870872E+18
-2461	3,730344E+20	9,978641E+20	1,363209E+21	1,363238E+21	9,979367E+20	3,731045E+20	7,875927E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875776E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-2460	3,730516E+20	9,979147E+20	1,363226E+21	1,363214E+21	9,978750E+20	3,730142E+20	7,874415E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875963E+18
-2459	3,730889E+20	9,978792E+20	1,363138E+21	1,363128E+21	9,978562E+20	3,730468E+20	7,871051E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873253E+18
-2458	3,730034E+20	9,978027E+20	1,363118E+21	1,363129E+21	9,978507E+20	3,730629E+20	7,877938E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877440E+18
-2457	3,730499E+20	9,978371E+20	1,363092E+21	1,363060E+21	9,977603E+20	3,729731E+20	7,872830E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875020E+18
-2456	3,730298E+20	9,977497E+20	1,362986E+21	1,363003E+21	9,977776E+20	3,730428E+20	7,875316E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873377E+18
-2455	3,729563E+20	9,977213E+20	1,363000E+21	1,362997E+21	9,977377E+20	3,730031E+20	7,878496E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878462E+18
-2454	3,730282E+20	9,977360E+20	1,362947E+21	1,362916E+21	9,976659E+20	3,729494E+20	7,872659E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874786E+18
-2453	3,729766E+20	9,976475E+20	1,362891E+21	1,362930E+21	9,977227E+20	3,730265E+20	7,877048E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875963E+18
-2452	3,729747E+20	9,977164E+20	1,362954E+21	1,362941E+21	9,976861E+20	3,729584E+20	7,875889E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879580E+18
-2451	3,730416E+20	9,977401E+20	1,362938E+21	1,362905E+21	9,976807E+20	3,729779E+20	7,873387E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872934E+18
-2450	3,729628E+20	9,976848E+20	1,362971E+21	1,362994E+21	9,977542E+20	3,730360E+20	7,877649E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876831E+18
-2449	3,730059E+20	9,977708E+20	1,363026E+21	1,363013E+21	9,977297E+20	3,729630E+20	7,874773E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876167E+18
-2448	3,730358E+20	9,977549E+20	1,362996E+21	1,363020E+21	9,977944E+20	3,730395E+20	7,873791E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872119E+18
-2447	3,729769E+20	9,977645E+20	1,363074E+21	1,363092E+21	9,978245E+20	3,730489E+20	7,877664E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878833E+18
-2446	3,730667E+20	9,978502E+20	1,363105E+21	1,363076E+21	9,977819E+20	3,729870E+20	7,872896E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873013E+18
-2445	3,730440E+20	9,978110E+20	1,363090E+21	1,363118E+21	9,978611E+20	3,730753E+20	7,873745E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874032E+18
-2444	3,730124E+20	9,978608E+20	1,363170E+21	1,363156E+21	9,978465E+20	3,730292E+20	7,877019E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877775E+18
-2443	3,730854E+20	9,978849E+20	1,363149E+21	1,363109E+21	9,978115E+20	3,730091E+20	7,871077E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872304E+18
-2442	3,730150E+20	9,977895E+20	1,363106E+21	1,363140E+21	9,978646E+20	3,730749E+20	7,875979E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876281E+18
-2441	3,730231E+20	9,978305E+20	1,363108E+21	1,363100E+21	9,977982E+20	3,729900E+20	7,875202E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876676E+18
-2440	3,730624E+20	9,977974E+20	1,363020E+21	1,363017E+21	9,977796E+20	3,730232E+20	7,872342E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873196E+18
-2439	3,729689E+20	9,977194E+20	1,363003E+21	1,363012E+21	9,977677E+20	3,730415E+20	7,879653E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877462E+18
-2438	3,730111E+20	9,977448E+20	1,362971E+21	1,362933E+21	9,976619E+20	3,729397E+20	7,873879E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875611E+18
-2437	3,729944E+20	9,976540E+20	1,362864E+21	1,362885E+21	9,976841E+20	3,730041E+20	7,875442E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874445E+18
-2436	3,729300E+20	9,976352E+20	1,362879E+21	1,362882E+21	9,976566E+20	3,729712E+20	7,878614E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880013E+18
-2435	3,730109E+20	9,976744E+20	1,362851E+21	1,362809E+21	9,975851E+20	3,729186E+20	7,872909E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875857E+18
-2434	3,729606E+20	9,975910E+20	1,362805E+21	1,362838E+21	9,976530E+20	3,730010E+20	7,877386E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875638E+18
-2433	3,729421E+20	9,976469E+20	1,362867E+21	1,362854E+21	9,976224E+20	3,729409E+20	7,877110E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879448E+18
-2432	3,730080E+20	9,976618E+20	1,362850E+21	1,362836E+21	9,976303E+20	3,729600E+20	7,874472E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872679E+18
-2431	3,729312E+20	9,976078E+20	1,362872E+21	1,362911E+21	9,977009E+20	3,730206E+20	7,878567E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877457E+18
-2430	3,729806E+20	9,976961E+20	1,362922E+21	1,362910E+21	9,976567E+20	3,729376E+20	7,875200E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877121E+18
-2429	3,730195E+20	9,976932E+20	1,362903E+21	1,362924E+21	9,977201E+20	3,730088E+20	7,873414E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873236E+18
-2428	3,729648E+20	9,977157E+20	1,362989E+21	1,362999E+21	9,977561E+20	3,730242E+20	7,877954E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879753E+18
-2427	3,730514E+20	9,978105E+20	1,363041E+21	1,362994E+21	9,977096E+20	3,729596E+20	7,873197E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873711E+18
-2426	3,730237E+20	9,977528E+20	1,363015E+21	1,363044E+21	9,977977E+20	3,730474E+20	7,873979E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874059E+18
-2425	3,729789E+20	9,977789E+20	1,363069E+21	1,363068E+21	9,977850E+20	3,730077E+20	7,877804E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878391E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-2424	3,730572E+20	9,977997E+20	1,363039E+21	1,363018E+21	9,977494E+20	3,729871E+20	7,871922E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872795E+18
-2423	3,729876E+20	9,977098E+20	1,362987E+21	1,363026E+21	9,977920E+20	3,730565E+20	7,877425E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876573E+18
-2422	3,729912E+20	9,977486E+20	1,362988E+21	1,362971E+21	9,977031E+20	3,729612E+20	7,876293E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876939E+18
-2421	3,730274E+20	9,977113E+20	1,362907E+21	1,362896E+21	9,976812E+20	3,729862E+20	7,872865E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873714E+18
-2420	3,729344E+20	9,976296E+20	1,362883E+21	1,362897E+21	9,976803E+20	3,730066E+20	7,880054E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878568E+18
-2419	3,729833E+20	9,976673E+20	1,362862E+21	1,362820E+21	9,975732E+20	3,729028E+20	7,873849E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877245E+18
-2418	3,729746E+20	9,975771E+20	1,362755E+21	1,362779E+21	9,976040E+20	3,729696E+20	7,875409E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875038E+18
-2417	3,729038E+20	9,975579E+20	1,362770E+21	1,362777E+21	9,975844E+20	3,729476E+20	7,879259E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880768E+18
-2416	3,729867E+20	9,976035E+20	1,362753E+21	1,362718E+21	9,975207E+20	3,728991E+20	7,874282E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875617E+18
-2415	3,729285E+20	9,975195E+20	1,362710E+21	1,362746E+21	9,975892E+20	3,729858E+20	7,878930E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875486E+18
-2414	3,729049E+20	9,975631E+20	1,362764E+21	1,362754E+21	9,975474E+20	3,729153E+20	7,878001E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879938E+18
-2413	3,729780E+20	9,975789E+20	1,362742E+21	1,362735E+21	9,975563E+20	3,729288E+20	7,874340E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873782E+18
-2412	3,729139E+20	9,975401E+20	1,362768E+21	1,362810E+21	9,976324E+20	3,729936E+20	7,878399E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879006E+18
-2411	3,729720E+20	9,976549E+20	1,362843E+21	1,362816E+21	9,975842E+20	3,729100E+20	7,875206E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878161E+18
-2410	3,730098E+20	9,976551E+20	1,362838E+21	1,362845E+21	9,976550E+20	3,729826E+20	7,873536E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872985E+18
-2409	3,729373E+20	9,976599E+20	1,362920E+21	1,362927E+21	9,976991E+20	3,730055E+20	7,878891E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879704E+18
-2408	3,730205E+20	9,977389E+20	1,362962E+21	1,362932E+21	9,976629E+20	3,729420E+20	7,874266E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873573E+18
-2407	3,729911E+20	9,976761E+20	1,362917E+21	1,362960E+21	9,977444E+20	3,730324E+20	7,875117E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874530E+18
-2406	3,729470E+20	9,976914E+20	1,362952E+21	1,362956E+21	9,977079E+20	3,729822E+20	7,878527E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879117E+18
-2405	3,730303E+20	9,977175E+20	1,362919E+21	1,362898E+21	9,976642E+20	3,729552E+20	7,872071E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,873892E+18
-2404	3,729644E+20	9,976359E+20	1,362869E+21	1,362901E+21	9,977023E+20	3,730258E+20	7,878115E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877513E+18
-2403	3,729649E+20	9,976792E+20	1,362886E+21	1,362853E+21	9,976064E+20	3,729248E+20	7,876665E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877988E+18
-2402	3,729997E+20	9,976304E+20	1,362798E+21	1,362787E+21	9,975928E+20	3,729473E+20	7,873134E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874155E+18
-2401	3,728996E+20	9,975365E+20	1,362760E+21	1,362782E+21	9,975990E+20	3,729761E+20	7,880598E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879488E+18
-2400	3,729552E+20	9,975786E+20	1,362744E+21	1,362717E+21	9,975019E+20	3,728780E+20	7,874816E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877753E+18
-2399	3,729477E+20	9,975036E+20	1,362645E+21	1,362669E+21	9,975319E+20	3,729501E+20	7,876793E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875208E+18
-2398	3,728710E+20	9,974785E+20	1,362661E+21	1,362662E+21	9,974999E+20	3,729224E+20	7,880307E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880879E+18
-2397	3,729517E+20	9,975224E+20	1,362652E+21	1,362617E+21	9,974426E+20	3,728687E+20	7,874702E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876141E+18
-2396	3,728989E+20	9,974411E+20	1,362604E+21	1,362646E+21	9,975190E+20	3,729575E+20	7,879057E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876653E+18
-2395	3,728842E+20	9,974982E+20	1,362669E+21	1,362656E+21	9,974742E+20	3,728845E+20	7,877772E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881400E+18
-2394	3,729655E+20	9,975213E+20	1,362655E+21	1,362647E+21	9,974894E+20	3,728989E+20	7,874050E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874274E+18
-2393	3,728969E+20	9,974864E+20	1,362685E+21	1,362724E+21	9,975727E+20	3,729738E+20	7,878808E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879559E+18
-2392	3,729539E+20	9,976045E+20	1,362776E+21	1,362749E+21	9,975334E+20	3,728964E+20	7,876587E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877725E+18
-2391	3,729821E+20	9,976004E+20	1,362770E+21	1,362776E+21	9,976033E+20	3,729696E+20	7,874967E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,872813E+18
-2390	3,729019E+20	9,975811E+20	1,362827E+21	1,362841E+21	9,976353E+20	3,729831E+20	7,879797E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880034E+18
-2389	3,729891E+20	9,976549E+20	1,362854E+21	1,362833E+21	9,975946E+20	3,729132E+20	7,874291E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874752E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-2388	3,729695E+20	9,975999E+20	1,362800E+21	1,362846E+21	9,976692E+20	3,730044E+20	7,875296E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876025E+18
-2387	3,729308E+20	9,976293E+20	1,362848E+21	1,362840E+21	9,976212E+20	3,729500E+20	7,878674E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880185E+18
-2386	3,730100E+20	9,976523E+20	1,362820E+21	1,362788E+21	9,975772E+20	3,729211E+20	7,872355E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874012E+18
-2385	3,729303E+20	9,975553E+20	1,362766E+21	1,362795E+21	9,976204E+20	3,729958E+20	7,878864E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877916E+18
-2384	3,729311E+20	9,975897E+20	1,362777E+21	1,362756E+21	9,975334E+20	3,728981E+20	7,877600E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878330E+18
-2383	3,729656E+20	9,975431E+20	1,362682E+21	1,362676E+21	9,975179E+20	3,729228E+20	7,874270E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874791E+18
-2382	3,728669E+20	9,974440E+20	1,362635E+21	1,362659E+21	9,975121E+20	3,729455E+20	7,881203E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880216E+18
-2381	3,729274E+20	9,974960E+20	1,362623E+21	1,362593E+21	9,974171E+20	3,728476E+20	7,875270E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878677E+18
-2380	3,729210E+20	9,974296E+20	1,362535E+21	1,362551E+21	9,974485E+20	3,729230E+20	7,877666E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875982E+18
-2379	3,728439E+20	9,974067E+20	1,362565E+21	1,362557E+21	9,974149E+20	3,728903E+20	7,880677E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881710E+18
-2378	3,729235E+20	9,974431E+20	1,362551E+21	1,362520E+21	9,973677E+20	3,728358E+20	7,874830E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876535E+18
-2377	3,728703E+20	9,973613E+20	1,362498E+21	1,362545E+21	9,974507E+20	3,729321E+20	7,879256E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877569E+18
-2376	3,728649E+20	9,974290E+20	1,362576E+21	1,362570E+21	9,974158E+20	3,728665E+20	7,878697E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881580E+18
-2375	3,729458E+20	9,974701E+20	1,362576E+21	1,362563E+21	9,974327E+20	3,728852E+20	7,875358E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874097E+18
-2374	3,728696E+20	9,974266E+20	1,362607E+21	1,362638E+21	9,975061E+20	3,729535E+20	7,879752E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879447E+18
-2373	3,729238E+20	9,975374E+20	1,362696E+21	1,362670E+21	9,974741E+20	3,728729E+20	7,877063E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878130E+18
-2372	3,729553E+20	9,975308E+20	1,362679E+21	1,362691E+21	9,975441E+20	3,729450E+20	7,875018E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874188E+18
-2371	3,728839E+20	9,975147E+20	1,362734E+21	1,362746E+21	9,975651E+20	3,729531E+20	7,879491E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881445E+18
-2370	3,729737E+20	9,975902E+20	1,362758E+21	1,362736E+21	9,975230E+20	3,728814E+20	7,873925E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875570E+18
-2369	3,729500E+20	9,975352E+20	1,362699E+21	1,362736E+21	9,975942E+20	3,729797E+20	7,875820E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876678E+18
-2368	3,729068E+20	9,975587E+20	1,362755E+21	1,362744E+21	9,975494E+20	3,729300E+20	7,880130E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879894E+18
-2367	3,729754E+20	9,975765E+20	1,362724E+21	1,362689E+21	9,975023E+20	3,728986E+20	7,873871E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874093E+18
-2366	3,728900E+20	9,974565E+20	1,362644E+21	1,362678E+21	9,975333E+20	3,729637E+20	7,879708E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878385E+18
-2365	3,728968E+20	9,974929E+20	1,362648E+21	1,362631E+21	9,974481E+20	3,728652E+20	7,877777E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879588E+18
-2364	3,729400E+20	9,974599E+20	1,362557E+21	1,362548E+21	9,974293E+20	3,728910E+20	7,874797E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876193E+18
-2363	3,728469E+20	9,973744E+20	1,362525E+21	1,362536E+21	9,974199E+20	3,729119E+20	7,881493E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881001E+18
-2362	3,729008E+20	9,974235E+20	1,362524E+21	1,362487E+21	9,973323E+20	3,728145E+20	7,875718E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878849E+18
-2361	3,728849E+20	9,973445E+20	1,362431E+21	1,362450E+21	9,973737E+20	3,728958E+20	7,878352E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876450E+18
-2360	3,728121E+20	9,973168E+20	1,362462E+21	1,362468E+21	9,973518E+20	3,728686E+20	7,881520E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881984E+18
-2359	3,728940E+20	9,973647E+20	1,362448E+21	1,362424E+21	9,973034E+20	3,728157E+20	7,875770E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877053E+18
-2358	3,728452E+20	9,972850E+20	1,362393E+21	1,362440E+21	9,973760E+20	3,729061E+20	7,879617E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878165E+18
-2357	3,728462E+20	9,973696E+20	1,362482E+21	1,362469E+21	9,973471E+20	3,728438E+20	7,879166E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882214E+18
-2356	3,729264E+20	9,974181E+20	1,362500E+21	1,362474E+21	9,973653E+20	3,728628E+20	7,876068E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,874880E+18
-2355	3,728511E+20	9,973729E+20	1,362536E+21	1,362560E+21	9,974386E+20	3,729251E+20	7,879846E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880285E+18
-2354	3,729019E+20	9,974710E+20	1,362611E+21	1,362591E+21	9,974137E+20	3,728442E+20	7,876978E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878628E+18
-2353	3,729312E+20	9,974592E+20	1,362584E+21	1,362599E+21	9,974835E+20	3,729221E+20	7,875022E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875243E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-2352	3,728667E+20	9,974458E+20	1,362642E+21	1,362658E+21	9,975046E+20	3,729357E+20	7,880465E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881395E+18
-2351	3,729483E+20	9,975283E+20	1,362668E+21	1,362639E+21	9,974560E+20	3,728654E+20	7,875325E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875342E+18
-2350	3,729154E+20	9,974573E+20	1,362601E+21	1,362630E+21	9,975112E+20	3,729532E+20	7,876937E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876551E+18
-2349	3,728711E+20	9,974731E+20	1,362645E+21	1,362634E+21	9,974701E+20	3,729015E+20	7,880844E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880351E+18
-2348	3,729417E+20	9,974880E+20	1,362607E+21	1,362574E+21	9,974201E+20	3,728673E+20	7,874378E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875536E+18
-2347	3,728666E+20	9,973742E+20	1,362528E+21	1,362559E+21	9,974422E+20	3,729257E+20	7,879639E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879697E+18
-2346	3,728748E+20	9,974130E+20	1,362532E+21	1,362514E+21	9,973617E+20	3,728293E+20	7,877695E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880492E+18
-2345	3,729134E+20	9,973824E+20	1,362446E+21	1,362431E+21	9,973460E+20	3,728634E+20	7,875530E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876968E+18
-2344	3,728185E+20	9,972921E+20	1,362425E+21	1,362436E+21	9,973436E+20	3,728899E+20	7,882889E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880747E+18
-2343	3,728619E+20	9,973369E+20	1,362419E+21	1,362386E+21	9,972595E+20	3,727924E+20	7,877165E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879065E+18
-2342	3,728454E+20	9,972432E+20	1,362305E+21	1,362333E+21	9,972899E+20	3,728656E+20	7,879062E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876987E+18
-2341	3,727842E+20	9,972284E+20	1,362335E+21	1,362347E+21	9,972730E+20	3,728406E+20	7,881716E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883026E+18
-2340	3,728744E+20	9,972973E+20	1,362342E+21	1,362312E+21	9,972254E+20	3,727891E+20	7,876319E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878245E+18
-2339	3,728335E+20	9,972359E+20	1,362311E+21	1,362343E+21	9,972974E+20	3,728760E+20	7,879669E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878800E+18
-2338	3,728276E+20	9,973198E+20	1,362415E+21	1,362394E+21	9,972818E+20	3,728165E+20	7,879381E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882356E+18
-2337	3,728998E+20	9,973574E+20	1,362428E+21	1,362404E+21	9,973111E+20	3,728411E+20	7,876361E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875446E+18
-2336	3,728278E+20	9,973038E+20	1,362459E+21	1,362495E+21	9,973924E+20	3,729098E+20	7,880554E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880301E+18
-2335	3,728756E+20	9,974047E+20	1,362526E+21	1,362514E+21	9,973628E+20	3,728290E+20	7,877843E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878860E+18
-2334	3,729048E+20	9,973841E+20	1,362481E+21	1,362499E+21	9,974132E+20	3,728999E+20	7,875633E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875594E+18
-2333	3,728441E+20	9,973778E+20	1,362537E+21	1,362549E+21	9,974322E+20	3,729150E+20	7,881397E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881615E+18
-2332	3,729198E+20	9,974590E+20	1,362573E+21	1,362534E+21	9,973751E+20	3,728402E+20	7,876365E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876195E+18
-2331	3,728901E+20	9,973823E+20	1,362501E+21	1,362525E+21	9,974228E+20	3,729159E+20	7,877167E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877536E+18
-2330	3,728441E+20	9,973903E+20	1,362534E+21	1,362526E+21	9,973859E+20	3,728637E+20	7,880686E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881329E+18
-2329	3,729151E+20	9,974041E+20	1,362490E+21	1,362459E+21	9,973379E+20	3,728352E+20	7,874465E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876946E+18
-2328	3,728455E+20	9,972959E+20	1,362420E+21	1,362452E+21	9,973657E+20	3,729016E+20	7,880694E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879759E+18
-2327	3,728436E+20	9,973384E+20	1,362429E+21	1,362407E+21	9,972849E+20	3,728085E+20	7,879141E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880492E+18
-2326	3,728722E+20	9,972872E+20	1,362331E+21	1,362316E+21	9,972582E+20	3,728350E+20	7,876778E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877068E+18
-2325	3,727814E+20	9,971941E+20	1,362296E+21	1,362317E+21	9,972630E+20	3,728616E+20	7,883545E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881317E+18
-2324	3,728269E+20	9,972430E+20	1,362294E+21	1,362265E+21	9,971750E+20	3,727620E+20	7,877680E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880621E+18
-2323	3,728265E+20	9,971665E+20	1,362191E+21	1,362214E+21	9,971988E+20	3,728271E+20	7,878795E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878233E+18
-2322	3,727695E+20	9,971665E+20	1,362234E+21	1,362239E+21	9,971910E+20	3,728076E+20	7,881576E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883743E+18
-2321	3,728548E+20	9,972433E+20	1,362260E+21	1,362220E+21	9,971567E+20	3,727667E+20	7,877033E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878707E+18
-2320	3,728123E+20	9,971811E+20	1,362250E+21	1,362278E+21	9,972412E+20	3,728594E+20	7,880862E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878356E+18
-2319	3,727954E+20	9,972544E+20	1,362343E+21	1,362329E+21	9,972340E+20	3,728027E+20	7,880681E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882213E+18
-2318	3,728642E+20	9,972728E+20	1,362330E+21	1,362319E+21	9,972519E+20	3,728201E+20	7,876957E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,875837E+18
-2317	3,728046E+20	9,972282E+20	1,362347E+21	1,362393E+21	9,973310E+20	3,728900E+20	7,881000E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880824E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-2316	3,728521E+20	9,973378E+20	1,362426E+21	1,362411E+21	9,972920E+20	3,728075E+20	7,878643E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879725E+18
-2315	3,728876E+20	9,973269E+20	1,362391E+21	1,362396E+21	9,973292E+20	3,728680E+20	7,875892E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876219E+18
-2314	3,728208E+20	9,973146E+20	1,362449E+21	1,362455E+21	9,973521E+20	3,728818E+20	7,881620E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882027E+18
-2313	3,728907E+20	9,973851E+20	1,362478E+21	1,362441E+21	9,973038E+20	3,728110E+20	7,876508E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877366E+18
-2312	3,728666E+20	9,973055E+20	1,362405E+21	1,362435E+21	9,973541E+20	3,728894E+20	7,877711E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878085E+18
-2311	3,728173E+20	9,973146E+20	1,362431E+21	1,362428E+21	9,973164E+20	3,728399E+20	7,881369E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881866E+18
-2310	3,728843E+20	9,973175E+20	1,362370E+21	1,362342E+21	9,972542E+20	3,728074E+20	7,875294E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877544E+18
-2309	3,728174E+20	9,972143E+20	1,362296E+21	1,362327E+21	9,972825E+20	3,728778E+20	7,881974E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879869E+18
-2308	3,728052E+20	9,972492E+20	1,362314E+21	1,362289E+21	9,971962E+20	3,727810E+20	7,880437E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881464E+18
-2307	3,728401E+20	9,971926E+20	1,362205E+21	1,362193E+21	9,971620E+20	3,727962E+20	7,877240E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878035E+18
-2306	3,727528E+20	9,971032E+20	1,362167E+21	1,362194E+21	9,971708E+20	3,728228E+20	7,883363E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882359E+18
-2305	3,728023E+20	9,971640E+20	1,362176E+21	1,362146E+21	9,970901E+20	3,727306E+20	7,877842E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881850E+18
-2304	3,728088E+20	9,971043E+20	1,362100E+21	1,362117E+21	9,971257E+20	3,728035E+20	7,879701E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878077E+18
-2303	3,727437E+20	9,971126E+20	1,362161E+21	1,362160E+21	9,971289E+20	3,727900E+20	7,882766E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883464E+18
-2302	3,728189E+20	9,971682E+20	1,362175E+21	1,362141E+21	9,970941E+20	3,727459E+20	7,878212E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878565E+18
-2301	3,727813E+20	9,971049E+20	1,362150E+21	1,362195E+21	9,971891E+20	3,728412E+20	7,881481E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878614E+18
-2300	3,727644E+20	9,971774E+20	1,362245E+21	1,362240E+21	9,971744E+20	3,727822E+20	7,881245E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883442E+18
-2299	3,728469E+20	9,972046E+20	1,362229E+21	1,362221E+21	9,971782E+20	3,727885E+20	7,876612E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877017E+18
-2298	3,727923E+20	9,971728E+20	1,362251E+21	1,362292E+21	9,972558E+20	3,728596E+20	7,880755E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881685E+18
-2297	3,728340E+20	9,972844E+20	1,362342E+21	1,362317E+21	9,972205E+20	3,727829E+20	7,879070E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880552E+18
-2296	3,728675E+20	9,972705E+20	1,362321E+21	1,362320E+21	9,972628E+20	3,728444E+20	7,876819E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876322E+18
-2295	3,727916E+20	9,972468E+20	1,362364E+21	1,362375E+21	9,972899E+20	3,728589E+20	7,882512E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882236E+18
-2294	3,728561E+20	9,972958E+20	1,362364E+21	1,362338E+21	9,972306E+20	3,727844E+20	7,877123E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878082E+18
-2293	3,728414E+20	9,972244E+20	1,362281E+21	1,362318E+21	9,972797E+20	3,728652E+20	7,878531E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878531E+18
-2292	3,727864E+20	9,972344E+20	1,362315E+21	1,362309E+21	9,972339E+20	3,728160E+20	7,882542E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882617E+18
-2291	3,728555E+20	9,972382E+20	1,362258E+21	1,362222E+21	9,971595E+20	3,727724E+20	7,875976E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878206E+18
-2290	3,727850E+20	9,971286E+20	1,362177E+21	1,362208E+21	9,971891E+20	3,728411E+20	7,882459E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880358E+18
-2289	3,727682E+20	9,971535E+20	1,362190E+21	1,362172E+21	9,971118E+20	3,727482E+20	7,880719E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882696E+18
-2288	3,728117E+20	9,971061E+20	1,362093E+21	1,362084E+21	9,970794E+20	3,727647E+20	7,877855E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878589E+18
-2287	3,727262E+20	9,970265E+20	1,362058E+21	1,362086E+21	9,970930E+20	3,727953E+20	7,883894E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882732E+18
-2286	3,727721E+20	9,970845E+20	1,362064E+21	1,362035E+21	9,970116E+20	3,727060E+20	7,878839E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882207E+18
-2285	3,727836E+20	9,970383E+20	1,362000E+21	1,362014E+21	9,970561E+20	3,727832E+20	7,880938E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878003E+18
-2284	3,727095E+20	9,970391E+20	1,362073E+21	1,362072E+21	9,970625E+20	3,727689E+20	7,883878E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884330E+18
-2283	3,727922E+20	9,970901E+20	1,362075E+21	1,362050E+21	9,970241E+20	3,727144E+20	7,878346E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879557E+18
-2282	3,727609E+20	9,970341E+20	1,362045E+21	1,362096E+21	9,971181E+20	3,728095E+20	7,880919E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879769E+18
-2281	3,727469E+20	9,971136E+20	1,362148E+21	1,362144E+21	9,971088E+20	3,727568E+20	7,881151E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884559E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-2280	3,728335E+20	9,971568E+20	1,362157E+21	1,362138E+21	9,971146E+20	3,727674E+20	7,877204E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877054E+18
-2279	3,727713E+20	9,971267E+20	1,362186E+21	1,362216E+21	9,971955E+20	3,728407E+20	7,881619E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881491E+18
-2278	3,728008E+20	9,972126E+20	1,362256E+21	1,362235E+21	9,971578E+20	3,727621E+20	7,880087E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880708E+18
-2277	3,728395E+20	9,971970E+20	1,362219E+21	1,362228E+21	9,972042E+20	3,728233E+20	7,877603E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876710E+18
-2276	3,727605E+20	9,971680E+20	1,362261E+21	1,362277E+21	9,972215E+20	3,728348E+20	7,883209E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883383E+18
-2275	3,728342E+20	9,972175E+20	1,362248E+21	1,362225E+21	9,971474E+20	3,727507E+20	7,877238E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879141E+18
-2274	3,728193E+20	9,971532E+20	1,362166E+21	1,362198E+21	9,971913E+20	3,728323E+20	7,878882E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879241E+18
-2273	3,727569E+20	9,971565E+20	1,362209E+21	1,362195E+21	9,971473E+20	3,727867E+20	7,883265E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883372E+18
-2272	3,728223E+20	9,971540E+20	1,362156E+21	1,362117E+21	9,970760E+20	3,727428E+20	7,877063E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878621E+18
-2271	3,727494E+20	9,970383E+20	1,362060E+21	1,362096E+21	9,971084E+20	3,728104E+20	7,883165E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880803E+18
-2270	3,727310E+20	9,970497E+20	1,362051E+21	1,362043E+21	9,970232E+20	3,727170E+20	7,881281E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883580E+18
-2269	3,727861E+20	9,970220E+20	1,361961E+21	1,361955E+21	9,969959E+20	3,727367E+20	7,878799E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878914E+18
-2268	3,726964E+20	9,969526E+20	1,361953E+21	1,361972E+21	9,970101E+20	3,727692E+20	7,884880E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883454E+18
-2267	3,727457E+20	9,970120E+20	1,361966E+21	1,361931E+21	9,969279E+20	3,726740E+20	7,879456E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882796E+18
-2266	3,727560E+20	9,969671E+20	1,361905E+21	1,361920E+21	9,969817E+20	3,727512E+20	7,880954E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878802E+18
-2265	3,726827E+20	9,969636E+20	1,361978E+21	1,361983E+21	9,969999E+20	3,727425E+20	7,883713E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885614E+18
-2264	3,727726E+20	9,970253E+20	1,361992E+21	1,361968E+21	9,969645E+20	3,726905E+20	7,878536E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880175E+18
-2263	3,727441E+20	9,969793E+20	1,361961E+21	1,362009E+21	9,970593E+20	3,727885E+20	7,881100E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880020E+18
-2262	3,727228E+20	9,970487E+20	1,362055E+21	1,362050E+21	9,970456E+20	3,727397E+20	7,882209E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884568E+18
-2261	3,728104E+20	9,970998E+20	1,362072E+21	1,362050E+21	9,970542E+20	3,727515E+20	7,878653E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,876745E+18
-2260	3,727381E+20	9,970566E+20	1,362104E+21	1,362135E+21	9,971324E+20	3,728207E+20	7,882850E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882134E+18
-2259	3,727731E+20	9,971333E+20	1,362155E+21	1,362140E+21	9,970861E+20	3,727325E+20	7,880445E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881596E+18
-2258	3,728174E+20	9,971246E+20	1,362110E+21	1,362118E+21	9,971242E+20	3,727897E+20	7,877359E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877877E+18
-2257	3,727390E+20	9,970952E+20	1,362154E+21	1,362167E+21	9,971454E+20	3,728062E+20	7,883354E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884294E+18
-2256	3,728113E+20	9,971535E+20	1,362160E+21	1,362125E+21	9,970708E+20	3,727238E+20	7,877989E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879477E+18
-2255	3,727888E+20	9,970816E+20	1,362072E+21	1,362096E+21	9,971134E+20	3,728055E+20	7,879861E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879218E+18
-2254	3,727151E+20	9,970543E+20	1,362086E+21	1,362082E+21	9,970679E+20	3,727596E+20	7,884234E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883795E+18
-2253	3,727873E+20	9,970567E+20	1,362021E+21	1,361994E+21	9,969961E+20	3,727150E+20	7,878026E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879253E+18
-2252	3,727148E+20	9,969436E+20	1,361933E+21	1,361971E+21	9,970190E+20	3,727782E+20	7,883747E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882060E+18
-2251	3,727079E+20	9,969643E+20	1,361924E+21	1,361912E+21	9,969270E+20	3,726796E+20	7,881367E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884743E+18
-2250	3,727653E+20	9,969545E+20	1,361850E+21	1,361831E+21	9,969015E+20	3,727010E+20	7,879074E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879759E+18
-2249	3,726711E+20	9,968837E+20	1,361861E+21	1,361873E+21	9,969312E+20	3,727399E+20	7,885288E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884249E+18
-2248	3,727181E+20	9,969419E+20	1,361885E+21	1,361849E+21	9,968625E+20	3,726487E+20	7,880282E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883300E+18
-2247	3,727278E+20	9,968936E+20	1,361813E+21	1,361834E+21	9,969218E+20	3,727278E+20	7,881299E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879152E+18
-2246	3,726533E+20	9,968773E+20	1,361866E+21	1,361883E+21	9,969360E+20	3,727224E+20	7,884262E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886041E+18
-2245	3,727508E+20	9,969578E+20	1,361887E+21	1,361867E+21	9,969037E+20	3,726739E+20	7,879652E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879994E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-2244	3,727175E+20	9,969206E+20	1,361880E+21	1,361918E+21	9,969926E+20	3,727702E+20	7,882156E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880421E+18
-2243	3,726993E+20	9,969842E+20	1,361970E+21	1,361959E+21	9,969731E+20	3,727141E+20	7,883015E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884840E+18
-2242	3,727852E+20	9,970349E+20	1,361986E+21	1,361962E+21	9,969842E+20	3,727219E+20	7,878709E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,877627E+18
-2241	3,727154E+20	9,969879E+20	1,362017E+21	1,362049E+21	9,970678E+20	3,727918E+20	7,882591E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883436E+18
-2240	3,727550E+20	9,970700E+20	1,362071E+21	1,362053E+21	9,970213E+20	3,727058E+20	7,880548E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882435E+18
-2239	3,727990E+20	9,970647E+20	1,362020E+21	1,362024E+21	9,970574E+20	3,727641E+20	7,877467E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878364E+18
-2238	3,727115E+20	9,970168E+20	1,362046E+21	1,362057E+21	9,970706E+20	3,727848E+20	7,884431E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884355E+18
-2237	3,727791E+20	9,970730E+20	1,362049E+21	1,362016E+21	9,969960E+20	3,727022E+20	7,879541E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879520E+18
-2236	3,727482E+20	9,969872E+20	1,361958E+21	1,361984E+21	9,970301E+20	3,727775E+20	7,881141E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880139E+18
-2235	3,726828E+20	9,969506E+20	1,361946E+21	1,361949E+21	9,969724E+20	3,727225E+20	7,884558E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884894E+18
-2234	3,727610E+20	9,969681E+20	1,361887E+21	1,361854E+21	9,968933E+20	3,726746E+20	7,877952E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880611E+18
-2233	3,726926E+20	9,968661E+20	1,361817E+21	1,361845E+21	9,969253E+20	3,727420E+20	7,883795E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882976E+18
-2232	3,726846E+20	9,969008E+20	1,361835E+21	1,361806E+21	9,968438E+20	3,726509E+20	7,882143E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885124E+18
-2231	3,727351E+20	9,968860E+20	1,361766E+21	1,361741E+21	9,968292E+20	3,726744E+20	7,879949E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879718E+18
-2230	3,726326E+20	9,967898E+20	1,361752E+21	1,361778E+21	9,968669E+20	3,727187E+20	7,886172E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884440E+18
-2229	3,726853E+20	9,968551E+20	1,361770E+21	1,361751E+21	9,968033E+20	3,726303E+20	7,881447E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883561E+18
-2228	3,726959E+20	9,968101E+20	1,361707E+21	1,361733E+21	9,968532E+20	3,727064E+20	7,882065E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879961E+18
-2227	3,726329E+20	9,968009E+20	1,361754E+21	1,361772E+21	9,968588E+20	3,726961E+20	7,884672E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886611E+18
-2226	3,727314E+20	9,969014E+20	1,361796E+21	1,361760E+21	9,968213E+20	3,726457E+20	7,880014E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880643E+18
-2225	3,726969E+20	9,968628E+20	1,361805E+21	1,361834E+21	9,969216E+20	3,727421E+20	7,882317E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881306E+18
-2224	3,726791E+20	9,969279E+20	1,361901E+21	1,361887E+21	9,969131E+20	3,726889E+20	7,883434E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885614E+18
-2223	3,727656E+20	9,969749E+20	1,361906E+21	1,361883E+21	9,969254E+20	3,726960E+20	7,878623E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878266E+18
-2222	3,726923E+20	9,969125E+20	1,361914E+21	1,361954E+21	9,970057E+20	3,727708E+20	7,883033E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883779E+18
-2221	3,727328E+20	9,970039E+20	1,361970E+21	1,361955E+21	9,969597E+20	3,726890E+20	7,881810E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882193E+18
-2220	3,727656E+20	9,969929E+20	1,361930E+21	1,361926E+21	9,969837E+20	3,727436E+20	7,878743E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,878814E+18
-2219	3,726800E+20	9,969279E+20	1,361933E+21	1,361946E+21	9,969867E+20	3,727557E+20	7,885355E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884700E+18
-2218	3,727454E+20	9,969838E+20	1,361929E+21	1,361895E+21	9,969049E+20	3,726670E+20	7,879668E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880826E+18
-2217	3,727207E+20	9,968978E+20	1,361837E+21	1,361863E+21	9,969392E+20	3,727392E+20	7,880985E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881567E+18
-2216	3,726618E+20	9,968746E+20	1,361835E+21	1,361831E+21	9,968826E+20	3,726874E+20	7,884669E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885913E+18
-2215	3,727391E+20	9,968988E+20	1,361781E+21	1,361740E+21	9,968078E+20	3,726424E+20	7,878378E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881011E+18
-2214	3,726613E+20	9,967838E+20	1,361707E+21	1,361731E+21	9,968435E+20	3,727176E+20	7,885030E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882899E+18
-2213	3,726487E+20	9,968156E+20	1,361727E+21	1,361707E+21	9,967740E+20	3,726320E+20	7,883973E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885058E+18
-2212	3,726922E+20	9,967905E+20	1,361658E+21	1,361642E+21	9,967584E+20	3,726517E+20	7,881311E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880584E+18
-2211	3,726029E+20	9,966897E+20	1,361618E+21	1,361656E+21	9,967850E+20	3,726887E+20	7,886519E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885247E+18
-2210	3,726602E+20	9,967744E+20	1,361648E+21	1,361627E+21	9,967147E+20	3,725976E+20	7,881407E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884718E+18
-2209	3,726778E+20	9,967464E+20	1,361610E+21	1,361626E+21	9,967709E+20	3,726740E+20	7,881907E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880816E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-2208	3,726171E+20	9,967536E+20	1,361682E+21	1,361683E+21	9,967853E+20	3,726702E+20	7,885146E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887039E+18
-2207	3,727101E+20	9,968501E+20	1,361730E+21	1,361691E+21	9,967612E+20	3,726210E+20	7,880394E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880804E+18
-2206	3,726703E+20	9,967931E+20	1,361720E+21	1,361758E+21	9,968682E+20	3,727222E+20	7,882747E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881724E+18
-2205	3,726560E+20	9,968611E+20	1,361811E+21	1,361810E+21	9,968642E+20	3,726736E+20	7,884415E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885768E+18
-2204	3,727384E+20	9,969064E+20	1,361819E+21	1,361800E+21	9,968664E+20	3,726769E+20	7,879291E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879094E+18
-2203	3,726724E+20	9,968397E+20	1,361805E+21	1,361847E+21	9,969315E+20	3,727467E+20	7,883731E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883974E+18
-2202	3,727054E+20	9,969363E+20	1,361871E+21	1,361844E+21	9,968739E+20	3,726611E+20	7,882454E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882808E+18
-2201	3,727357E+20	9,969142E+20	1,361832E+21	1,361824E+21	9,968997E+20	3,727111E+20	7,879202E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879823E+18
-2200	3,726530E+20	9,968483E+20	1,361826E+21	1,361840E+21	9,969044E+20	3,727239E+20	7,885912E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885631E+18
-2199	3,727188E+20	9,969015E+20	1,361814E+21	1,361780E+21	9,968202E+20	3,726328E+20	7,879719E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881702E+18
-2198	3,726926E+20	9,968077E+20	1,361709E+21	1,361738E+21	9,968522E+20	3,727086E+20	7,881605E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881963E+18
-2197	3,726341E+20	9,967969E+20	1,361719E+21	1,361716E+21	9,968028E+20	3,726642E+20	7,886086E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885749E+18
-2196	3,726999E+20	9,968156E+20	1,361680E+21	1,361635E+21	9,967260E+20	3,726181E+20	7,879989E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881448E+18
-2195	3,726246E+20	9,966853E+20	1,361583E+21	1,361617E+21	9,967592E+20	3,726880E+20	7,886066E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883202E+18
-2194	3,726122E+20	9,967228E+20	1,361605E+21	1,361587E+21	9,966857E+20	3,725990E+20	7,884193E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886477E+18
-2193	3,726645E+20	9,967006E+20	1,361539E+21	1,361528E+21	9,966736E+20	3,726162E+20	7,881106E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882053E+18
-2192	3,725871E+20	9,966220E+20	1,361511E+21	1,361547E+21	9,967044E+20	3,726568E+20	7,886320E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886324E+18
-2191	3,726442E+20	9,967188E+20	1,361556E+21	1,361525E+21	9,966390E+20	3,725690E+20	7,881577E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885063E+18
-2190	3,726544E+20	9,966847E+20	1,361524E+21	1,361535E+21	9,967018E+20	3,726521E+20	7,882757E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880730E+18
-2189	3,725909E+20	9,966926E+20	1,361605E+21	1,361613E+21	9,967315E+20	3,726550E+20	7,886692E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886850E+18
-2188	3,726764E+20	9,967784E+20	1,361651E+21	1,361621E+21	9,967093E+20	3,726043E+20	7,881558E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881474E+18
-2187	3,726473E+20	9,967160E+20	1,361614E+21	1,361663E+21	9,968037E+20	3,726987E+20	7,883115E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882265E+18
-2186	3,726343E+20	9,967968E+20	1,361712E+21	1,361706E+21	9,967898E+20	3,726477E+20	7,884552E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886581E+18
-2185	3,727174E+20	9,968456E+20	1,361731E+21	1,361705E+21	9,967926E+20	3,726484E+20	7,879362E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,879899E+18
-2184	3,726526E+20	9,967838E+20	1,361721E+21	1,361754E+21	9,968567E+20	3,727198E+20	7,884348E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884432E+18
-2183	3,726768E+20	9,968647E+20	1,361780E+21	1,361755E+21	9,968027E+20	3,726317E+20	7,882789E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883255E+18
-2182	3,727033E+20	9,968252E+20	1,361717E+21	1,361720E+21	9,968255E+20	3,726830E+20	7,879757E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880546E+18
-2181	3,726252E+20	9,967628E+20	1,361707E+21	1,361732E+21	9,968294E+20	3,726994E+20	7,887008E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885909E+18
-2180	3,726860E+20	9,968174E+20	1,361699E+21	1,361668E+21	9,967397E+20	3,726067E+20	7,880632E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882678E+18
-2179	3,726667E+20	9,967234E+20	1,361580E+21	1,361606E+21	9,967577E+20	3,726771E+20	7,882599E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882224E+18
-2178	3,726009E+20	9,967159E+20	1,361605E+21	1,361589E+21	9,967046E+20	3,726314E+20	7,886782E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886610E+18
-2177	3,726649E+20	9,967246E+20	1,361568E+21	1,361527E+21	9,966380E+20	3,725817E+20	7,880438E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882808E+18
-2176	3,725980E+20	9,966003E+20	1,361463E+21	1,361502E+21	9,966747E+20	3,726540E+20	7,886366E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884348E+18
-2175	3,725862E+20	9,966387E+20	1,361486E+21	1,361471E+21	9,966030E+20	3,725655E+20	7,884117E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887308E+18
-2174	3,726384E+20	9,966188E+20	1,361419E+21	1,361410E+21	9,965927E+20	3,725887E+20	7,881697E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882232E+18
-2173	3,725627E+20	9,965565E+20	1,361413E+21	1,361447E+21	9,966337E+20	3,726381E+20	7,887690E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885879E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-2172	3,726089E+20	9,966515E+20	1,361477E+21	1,361444E+21	9,965754E+20	3,725516E+20	7,883135E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885243E+18
-2171	3,726246E+20	9,966081E+20	1,361426E+21	1,361445E+21	9,966364E+20	3,726283E+20	7,883598E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880930E+18
-2170	3,725629E+20	9,966237E+20	1,361512E+21	1,361521E+21	9,966643E+20	3,726292E+20	7,886798E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888033E+18
-2169	3,726551E+20	9,967095E+20	1,361561E+21	1,361537E+21	9,966454E+20	3,725752E+20	7,881339E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882766E+18
-2168	3,726358E+20	9,966643E+20	1,361526E+21	1,361573E+21	9,967378E+20	3,726722E+20	7,882985E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883155E+18
-2167	3,726171E+20	9,967444E+20	1,361630E+21	1,361616E+21	9,967223E+20	3,726222E+20	7,884781E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886749E+18
-2166	3,726891E+20	9,967769E+20	1,361640E+21	1,361614E+21	9,967246E+20	3,726263E+20	7,880210E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880105E+18
-2165	3,726234E+20	9,967091E+20	1,361625E+21	1,361668E+21	9,967939E+20	3,727004E+20	7,885831E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884531E+18
-2164	3,726407E+20	9,967775E+20	1,361671E+21	1,361657E+21	9,967339E+20	3,726092E+20	7,883832E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884230E+18
-2163	3,726763E+20	9,967337E+20	1,361583E+21	1,361592E+21	9,967375E+20	3,726509E+20	7,880354E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881218E+18
-2162	3,725990E+20	9,966876E+20	1,361588E+21	1,361599E+21	9,967313E+20	3,726639E+20	7,887209E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886788E+18
-2161	3,726582E+20	9,967411E+20	1,361592E+21	1,361552E+21	9,966470E+20	3,725713E+20	7,880992E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883664E+18
-2160	3,726402E+20	9,966526E+20	1,361478E+21	1,361497E+21	9,966700E+20	3,726436E+20	7,883279E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882940E+18
-2159	3,725683E+20	9,966311E+20	1,361496E+21	1,361485E+21	9,966248E+20	3,725982E+20	7,887014E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887270E+18
-2158	3,726291E+20	9,966269E+20	1,361442E+21	1,361413E+21	9,965608E+20	3,725530E+20	7,881024E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883658E+18
-2157	3,725695E+20	9,965118E+20	1,361340E+21	1,361391E+21	9,965999E+20	3,726300E+20	7,887410E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884561E+18
-2156	3,725533E+20	9,965541E+20	1,361371E+21	1,361361E+21	9,965275E+20	3,725425E+20	7,885130E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887915E+18
-2155	3,726111E+20	9,965398E+20	1,361302E+21	1,361288E+21	9,965061E+20	3,725615E+20	7,882826E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882182E+18
-2154	3,725326E+20	9,964891E+20	1,361320E+21	1,361339E+21	9,965477E+20	3,726089E+20	7,888245E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886622E+18
-2153	3,725800E+20	9,965772E+20	1,361388E+21	1,361359E+21	9,965066E+20	3,725224E+20	7,883554E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886501E+18
-2152	3,726074E+20	9,965471E+20	1,361335E+21	1,361356E+21	9,965711E+20	3,725995E+20	7,883485E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882221E+18
-2151	3,725476E+20	9,965638E+20	1,361423E+21	1,361433E+21	9,966012E+20	3,726011E+20	7,886388E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888773E+18
-2150	3,726357E+20	9,966482E+20	1,361470E+21	1,361448E+21	9,965849E+20	3,725532E+20	7,881671E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882986E+18
-2149	3,726146E+20	9,966087E+20	1,361446E+21	1,361492E+21	9,966795E+20	3,726570E+20	7,884271E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882701E+18
-2148	3,725815E+20	9,966727E+20	1,361550E+21	1,361540E+21	9,966655E+20	3,726065E+20	7,886216E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886857E+18
-2147	3,726562E+20	9,966925E+20	1,361529E+21	1,361510E+21	9,966526E+20	3,726014E+20	7,881092E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,880506E+18
-2146	3,725937E+20	9,966300E+20	1,361514E+21	1,361551E+21	9,967098E+20	3,726691E+20	7,885967E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885760E+18
-2145	3,726164E+20	9,966970E+20	1,361560E+21	1,361546E+21	9,966510E+20	3,725747E+20	7,883712E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885756E+18
-2144	3,726617E+20	9,966717E+20	1,361474E+21	1,361473E+21	9,966491E+20	3,726157E+20	7,880487E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882242E+18
-2143	3,725763E+20	9,966217E+20	1,361489E+21	1,361488E+21	9,966448E+20	3,726304E+20	7,887525E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886957E+18
-2142	3,726224E+20	9,966561E+20	1,361485E+21	1,361447E+21	9,965672E+20	3,725437E+20	7,882077E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884061E+18
-2141	3,726025E+20	9,965585E+20	1,361363E+21	1,361396E+21	9,965972E+20	3,726210E+20	7,885003E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883075E+18
-2140	3,725261E+20	9,965256E+20	1,361369E+21	1,361373E+21	9,965508E+20	3,725748E+20	7,888128E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888098E+18
-2139	3,725957E+20	9,965235E+20	1,361293E+21	1,361271E+21	9,964677E+20	3,725220E+20	7,881875E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884224E+18
-2138	3,725408E+20	9,964313E+20	1,361214E+21	1,361250E+21	9,964998E+20	3,725956E+20	7,887700E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885304E+18
-2137	3,725253E+20	9,964772E+20	1,361266E+21	1,361247E+21	9,964380E+20	3,725092E+20	7,885559E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888875E+18



1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-2136	3,725890E+20	9,964767E+20	1,361210E+21	1,361189E+21	9,964254E+20	3,725283E+20	7,883228E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883018E+18
-2135	3,725094E+20	9,964232E+20	1,361235E+21	1,361255E+21	9,964802E+20	3,725773E+20	7,887951E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887439E+18
-2134	3,725556E+20	9,965046E+20	1,361295E+21	1,361275E+21	9,964498E+20	3,725001E+20	7,883860E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887265E+18
-2133	3,725886E+20	9,964851E+20	1,361251E+21	1,361280E+21	9,965198E+20	3,725830E+20	7,884178E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882410E+18
-2132	3,725240E+20	9,965011E+20	1,361339E+21	1,361351E+21	9,965488E+20	3,725871E+20	7,887328E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888882E+18
-2131	3,726086E+20	9,965795E+20	1,361372E+21	1,361346E+21	9,965156E+20	3,725339E+20	7,882825E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882729E+18
-2130	3,725844E+20	9,965435E+20	1,361359E+21	1,361391E+21	9,966023E+20	3,726310E+20	7,884846E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883388E+18
-2129	3,725521E+20	9,965906E+20	1,361451E+21	1,361446E+21	9,965947E+20	3,725781E+20	7,886709E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888099E+18
-2128	3,726380E+20	9,966230E+20	1,361423E+21	1,361403E+21	9,965738E+20	3,725688E+20	7,881089E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,881898E+18
-2127	3,725771E+20	9,965640E+20	1,361413E+21	1,361442E+21	9,966269E+20	3,726333E+20	7,885617E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886433E+18
-2126	3,725926E+20	9,966270E+20	1,361457E+21	1,361437E+21	9,965735E+20	3,725478E+20	7,884251E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886046E+18
-2125	3,726329E+20	9,966017E+20	1,361384E+21	1,361379E+21	9,965759E+20	3,725938E+20	7,881996E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882036E+18
-2124	3,725353E+20	9,965313E+20	1,361387E+21	1,361394E+21	9,965768E+20	3,726089E+20	7,888921E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887131E+18
-2123	3,725809E+20	9,965496E+20	1,361350E+21	1,361323E+21	9,964849E+20	3,725156E+20	7,883132E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884790E+18
-2122	3,725668E+20	9,964603E+20	1,361229E+21	1,361256E+21	9,965012E+20	3,725865E+20	7,885364E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884401E+18
-2121	3,724978E+20	9,964267E+20	1,361234E+21	1,361242E+21	9,964571E+20	3,725383E+20	7,888161E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889623E+18
-2120	3,725778E+20	9,964514E+20	1,361170E+21	1,361136E+21	9,963687E+20	3,724845E+20	7,882095E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885362E+18
-2119	3,725198E+20	9,963654E+20	1,361115E+21	1,361134E+21	9,964060E+20	3,725578E+20	7,887667E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885688E+18
-2118	3,724962E+20	9,964031E+20	1,361172E+21	1,361152E+21	9,963638E+20	3,724824E+20	7,886295E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889473E+18
-2117	3,725613E+20	9,964025E+20	1,361122E+21	1,361110E+21	9,963659E+20	3,725085E+20	7,884534E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883212E+18
-2116	3,724795E+20	9,963447E+20	1,361141E+21	1,361173E+21	9,964274E+20	3,725605E+20	7,888746E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887861E+18
-2115	3,725296E+20	9,964280E+20	1,361185E+21	1,361170E+21	9,963825E+20	3,724800E+20	7,884775E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887261E+18
-2114	3,725629E+20	9,964237E+20	1,361159E+21	1,361172E+21	9,964448E+20	3,725602E+20	7,884605E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882683E+18
-2113	3,724966E+20	9,964307E+20	1,361253E+21	1,361263E+21	9,964809E+20	3,725637E+20	7,887997E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889379E+18
-2112	3,725854E+20	9,965161E+20	1,361284E+21	1,361255E+21	9,964445E+20	3,725059E+20	7,883222E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883543E+18
-2111	3,725622E+20	9,964764E+20	1,361270E+21	1,361300E+21	9,965310E+20	3,725983E+20	7,884461E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884293E+18
-2110	3,725298E+20	9,965176E+20	1,361352E+21	1,361351E+21	9,965277E+20	3,725525E+20	7,886959E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888968E+18
-2109	3,726188E+20	9,965564E+20	1,361332E+21	1,361313E+21	9,965077E+20	3,725465E+20	7,881899E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882247E+18
-2108	3,725513E+20	9,964949E+20	1,361319E+21	1,361347E+21	9,965604E+20	3,726128E+20	7,886650E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886467E+18
-2107	3,725590E+20	9,965449E+20	1,361346E+21	1,361321E+21	9,964911E+20	3,725240E+20	7,885593E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886049E+18
-2106	3,725948E+20	9,965150E+20	1,361274E+21	1,361260E+21	9,964879E+20	3,725635E+20	7,882840E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883005E+18
-2105	3,724999E+20	9,964251E+20	1,361256E+21	1,361276E+21	9,964927E+20	3,725763E+20	7,889480E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888564E+18
-2104	3,725559E+20	9,964576E+20	1,361212E+21	1,361186E+21	9,963879E+20	3,724775E+20	7,883206E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886496E+18
-2103	3,725460E+20	9,963791E+20	1,361105E+21	1,361121E+21	9,963985E+20	3,725440E+20	7,885073E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885161E+18
-2102	3,724726E+20	9,963479E+20	1,361117E+21	1,361116E+21	9,963653E+20	3,725076E+20	7,888710E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889922E+18
-2101	3,725474E+20	9,963786E+20	1,361079E+21	1,361039E+21	9,962900E+20	3,724606E+20	7,883661E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885161E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-2100	3,724835E+20	9,962850E+20	1,361023E+21	1,361048E+21	9,963415E+20	3,725359E+20	7,888785E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885703E+18
-2099	3,724600E+20	9,963126E+20	1,361057E+21	1,361047E+21	9,962950E+20	3,724612E+20	7,887378E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889904E+18
-2098	3,725313E+20	9,963249E+20	1,361019E+21	1,361005E+21	9,962936E+20	3,724827E+20	7,884863E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884176E+18
-2097	3,724573E+20	9,962665E+20	1,361036E+21	1,361076E+21	9,963598E+20	3,725353E+20	7,888929E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888783E+18
-2096	3,725133E+20	9,963703E+20	1,361089E+21	1,361065E+21	9,963073E+20	3,724531E+20	7,885142E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887916E+18
-2095	3,725424E+20	9,963678E+20	1,361082E+21	1,361081E+21	9,963666E+20	3,725290E+20	7,884539E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883000E+18
-2094	3,724707E+20	9,963608E+20	1,361167E+21	1,361180E+21	9,964174E+20	3,725411E+20	7,888640E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889944E+18
-2093	3,725606E+20	9,964458E+20	1,361200E+21	1,361179E+21	9,963874E+20	3,724869E+20	7,884211E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884095E+18
-2092	3,725396E+20	9,964059E+20	1,361177E+21	1,361214E+21	9,964718E+20	3,725767E+20	7,884930E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884895E+18
-2091	3,725067E+20	9,964451E+20	1,361242E+21	1,361240E+21	9,964524E+20	3,725296E+20	7,887823E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889090E+18
-2090	3,725923E+20	9,964928E+20	1,361237E+21	1,361201E+21	9,964251E+20	3,725192E+20	7,882474E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,882728E+18
-2089	3,725199E+20	9,964131E+20	1,361220E+21	1,361248E+21	9,964825E+20	3,725851E+20	7,887553E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887035E+18
-2088	3,725291E+20	9,964625E+20	1,361233E+21	1,361210E+21	9,964068E+20	3,724915E+20	7,886107E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887214E+18
-2087	3,725652E+20	9,964261E+20	1,361156E+21	1,361143E+21	9,963975E+20	3,725251E+20	7,882670E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884204E+18
-2086	3,724734E+20	9,963319E+20	1,361127E+21	1,361154E+21	9,964072E+20	3,725452E+20	7,889781E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889534E+18
-2085	3,725302E+20	9,963743E+20	1,361094E+21	1,361069E+21	9,963022E+20	3,724504E+20	7,884234E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886902E+18
-2084	3,725157E+20	9,962992E+20	1,360993E+21	1,361005E+21	9,963143E+20	3,725173E+20	7,886246E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884901E+18
-2083	3,724347E+20	9,962605E+20	1,361000E+21	1,360994E+21	9,962733E+20	3,724809E+20	7,890181E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889788E+18
-2082	3,725072E+20	9,962907E+20	1,360969E+21	1,360927E+21	9,962054E+20	3,724317E+20	7,884787E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885855E+18
-2081	3,724491E+20	9,961878E+20	1,360905E+21	1,360946E+21	9,962690E+20	3,725081E+20	7,889386E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886900E+18
-2080	3,724389E+20	9,962351E+20	1,360939E+21	1,360931E+21	9,962146E+20	3,724310E+20	7,887568E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891280E+18
-2079	3,725132E+20	9,962593E+20	1,360920E+21	1,360898E+21	9,962116E+20	3,724483E+20	7,884492E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884791E+18
-2078	3,724375E+20	9,962037E+20	1,360944E+21	1,360982E+21	9,962905E+20	3,725116E+20	7,889236E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889022E+18
-2077	3,724866E+20	9,963081E+20	1,361016E+21	1,360993E+21	9,962470E+20	3,724340E+20	7,886305E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887859E+18
-2076	3,725133E+20	9,962997E+20	1,361003E+21	1,361010E+21	9,963135E+20	3,725089E+20	7,885174E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883215E+18
-2075	3,724428E+20	9,962855E+20	1,361064E+21	1,361084E+21	9,963521E+20	3,725211E+20	7,889486E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890446E+18
-2074	3,725373E+20	9,963804E+20	1,361105E+21	1,361079E+21	9,963182E+20	3,724628E+20	7,884537E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885078E+18
-2073	3,725209E+20	9,963376E+20	1,361077E+21	1,361118E+21	9,964033E+20	3,725511E+20	7,885293E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885838E+18
-2072	3,724900E+20	9,963878E+20	1,361145E+21	1,361132E+21	9,963713E+20	3,725011E+20	7,888329E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889748E+18
-2071	3,725666E+20	9,964277E+20	1,361151E+21	1,361105E+21	9,963395E+20	3,724836E+20	7,882535E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883405E+18
-2070	3,724897E+20	9,963273E+20	1,361110E+21	1,361148E+21	9,964083E+20	3,725580E+20	7,888374E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887647E+18
-2069	3,724952E+20	9,963707E+20	1,361121E+21	1,361109E+21	9,963334E+20	3,724674E+20	7,887223E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887911E+18
-2068	3,725346E+20	9,963360E+20	1,361033E+21	1,361026E+21	9,963158E+20	3,724969E+20	7,883495E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884589E+18
-2067	3,724408E+20	9,962398E+20	1,360987E+21	1,361011E+21	9,963100E+20	3,725172E+20	7,891006E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889451E+18
-2066	3,724940E+20	9,962917E+20	1,360975E+21	1,360937E+21	9,962055E+20	3,724195E+20	7,885233E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887304E+18
-2065	3,724785E+20	9,962060E+20	1,360877E+21	1,360893E+21	9,962266E+20	3,724846E+20	7,887245E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885559E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-2064	3,724040E+20	9,961742E+20	1,360880E+21	1,360877E+21	9,961855E+20	3,724460E+20	7,890520E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891119E+18
-2063	3,724800E+20	9,962078E+20	1,360860E+21	1,360818E+21	9,961192E+20	3,723928E+20	7,884497E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887213E+18
-2062	3,724281E+20	9,961083E+20	1,360793E+21	1,360842E+21	9,961961E+20	3,724795E+20	7,889354E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887885E+18
-2061	3,724177E+20	9,961690E+20	1,360847E+21	1,360838E+21	9,961482E+20	3,724100E+20	7,888355E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891694E+18
-2060	3,724891E+20	9,961977E+20	1,360834E+21	1,360809E+21	9,961472E+20	3,724277E+20	7,885302E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884523E+18
-2059	3,724067E+20	9,961320E+20	1,360846E+21	1,360883E+21	9,962191E+20	3,724919E+20	7,890430E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888955E+18
-2058	3,724540E+20	9,962345E+20	1,360921E+21	1,360902E+21	9,961822E+20	3,724119E+20	7,887213E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888558E+18
-2057	3,724873E+20	9,962213E+20	1,360901E+21	1,360921E+21	9,962507E+20	3,724845E+20	7,885657E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,884400E+18
-2056	3,724289E+20	9,962258E+20	1,360963E+21	1,360978E+21	9,962754E+20	3,724923E+20	7,889665E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891529E+18
-2055	3,725210E+20	9,963268E+20	1,361019E+21	1,360982E+21	9,962385E+20	3,724301E+20	7,884391E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885552E+18
-2054	3,724992E+20	9,962792E+20	1,360994E+21	1,361031E+21	9,963351E+20	3,725273E+20	7,885885E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885962E+18
-2053	3,724583E+20	9,963185E+20	1,361067E+21	1,361055E+21	9,963081E+20	3,724812E+20	7,889637E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889696E+18
-2052	3,725299E+20	9,963427E+20	1,361050E+21	1,361017E+21	9,962774E+20	3,724603E+20	7,883336E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,883741E+18
-2051	3,724535E+20	9,962305E+20	1,360977E+21	1,361026E+21	9,963272E+20	3,725327E+20	7,889459E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888171E+18
-2050	3,724622E+20	9,962774E+20	1,360988E+21	1,360979E+21	9,962454E+20	3,724373E+20	7,887830E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888893E+18
-2049	3,725051E+20	9,962441E+20	1,360900E+21	1,360896E+21	9,962234E+20	3,724640E+20	7,884298E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885527E+18
-2048	3,724159E+20	9,961635E+20	1,360863E+21	1,360872E+21	9,962033E+20	3,724793E+20	7,891589E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890219E+18
-2047	3,724622E+20	9,962111E+20	1,360868E+21	1,360820E+21	9,961041E+20	3,723774E+20	7,885352E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888350E+18
-2046	3,724483E+20	9,961175E+20	1,360761E+21	1,360786E+21	9,961464E+20	3,724516E+20	7,887694E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886665E+18
-2045	3,723758E+20	9,960896E+20	1,360773E+21	1,360777E+21	9,961134E+20	3,724198E+20	7,891136E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892172E+18
-2044	3,724554E+20	9,961302E+20	1,360751E+21	1,360718E+21	9,960501E+20	3,723670E+20	7,885033E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887540E+18
-2043	3,724005E+20	9,960327E+20	1,360676E+21	1,360724E+21	9,961175E+20	3,724577E+20	7,890371E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887667E+18
-2042	3,723845E+20	9,960974E+20	1,360750E+21	1,360736E+21	9,960753E+20	3,723885E+20	7,889464E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891689E+18
-2041	3,724542E+20	9,961174E+20	1,360737E+21	1,360721E+21	9,960813E+20	3,724044E+20	7,886281E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885020E+18
-2040	3,723826E+20	9,960619E+20	1,360745E+21	1,360782E+21	9,961459E+20	3,724639E+20	7,890659E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890125E+18
-2039	3,724341E+20	9,961710E+20	1,360833E+21	1,360810E+21	9,961089E+20	3,723794E+20	7,886890E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889840E+18
-2038	3,724745E+20	9,961632E+20	1,360811E+21	1,360833E+21	9,961877E+20	3,724586E+20	7,885605E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885293E+18
-2037	3,724123E+20	9,961754E+20	1,360891E+21	1,360899E+21	9,962163E+20	3,724728E+20	7,890419E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891718E+18
-2036	3,724966E+20	9,962715E+20	1,360946E+21	1,360905E+21	9,961780E+20	3,724090E+20	7,885214E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885218E+18
-2035	3,724634E+20	9,962006E+20	1,360892E+21	1,360932E+21	9,962641E+20	3,725067E+20	7,887257E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885928E+18
-2034	3,724192E+20	9,962261E+20	1,360952E+21	1,360952E+21	9,962400E+20	3,724577E+20	7,890650E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890406E+18
-2033	3,724961E+20	9,962438E+20	1,360918E+21	1,360899E+21	9,961995E+20	3,724319E+20	7,883991E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885224E+18
-2032	3,724332E+20	9,961486E+20	1,360841E+21	1,360882E+21	9,962261E+20	3,724955E+20	7,889702E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889378E+18
-2031	3,724390E+20	9,962028E+20	1,360871E+21	1,360847E+21	9,961395E+20	3,723950E+20	7,887625E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889840E+18
-2030	3,724785E+20	9,961675E+20	1,360791E+21	1,360779E+21	9,961300E+20	3,724276E+20	7,884828E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886104E+18
-2029	3,723826E+20	9,960841E+20	1,360768E+21	1,360774E+21	9,961226E+20	3,724487E+20	7,892407E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890701E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-2028	3,724278E+20	9,961245E+20	1,360760E+21	1,360721E+21	9,960329E+20	3,723492E+20	7,885976E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888911E+18
-2027	3,724135E+20	9,960238E+20	1,360633E+21	1,360665E+21	9,960674E+20	3,724271E+20	7,888762E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887175E+18
-2026	3,723446E+20	9,960009E+20	1,360650E+21	1,360662E+21	9,960388E+20	3,723959E+20	7,891938E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892749E+18
-2025	3,724244E+20	9,960452E+20	1,360633E+21	1,360604E+21	9,959746E+20	3,723433E+20	7,886134E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888091E+18
-2024	3,723754E+20	9,959626E+20	1,360568E+21	1,360602E+21	9,960268E+20	3,724274E+20	7,891027E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888133E+18
-2023	3,723543E+20	9,960218E+20	1,360655E+21	1,360636E+21	9,959908E+20	3,723542E+20	7,889693E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892477E+18
-2022	3,724287E+20	9,960416E+20	1,360639E+21	1,360631E+21	9,960152E+20	3,723768E+20	7,886598E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886016E+18
-2021	3,723636E+20	9,960006E+20	1,360663E+21	1,360697E+21	9,960832E+20	3,724404E+20	7,890980E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891059E+18
-2020	3,724176E+20	9,961150E+20	1,360750E+21	1,360728E+21	9,960513E+20	3,723583E+20	7,887337E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889840E+18
-2019	3,724507E+20	9,961049E+20	1,360722E+21	1,360738E+21	9,961224E+20	3,724398E+20	7,886503E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885109E+18
-2018	3,723819E+20	9,961089E+20	1,360806E+21	1,360815E+21	9,961561E+20	3,724536E+20	7,891494E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891558E+18
-2017	3,724595E+20	9,961871E+20	1,360849E+21	1,360820E+21	9,961183E+20	3,723868E+20	7,886129E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885972E+18
-2016	3,724364E+20	9,961198E+20	1,360777E+21	1,360816E+21	9,961826E+20	3,724759E+20	7,887522E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887238E+18
-2015	3,723946E+20	9,961428E+20	1,360837E+21	1,360835E+21	9,961505E+20	3,724202E+20	7,890301E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891850E+18
-2014	3,724771E+20	9,961668E+20	1,360800E+21	1,360780E+21	9,961148E+20	3,723983E+20	7,884021E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886479E+18
-2013	3,724130E+20	9,960839E+20	1,360743E+21	1,360768E+21	9,961385E+20	3,724643E+20	7,890303E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889843E+18
-2012	3,724108E+20	9,961317E+20	1,360775E+21	1,360741E+21	9,960561E+20	3,723653E+20	7,888381E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889778E+18
-2011	3,724386E+20	9,960762E+20	1,360675E+21	1,360664E+21	9,960450E+20	3,723999E+20	7,886303E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886312E+18
-2010	3,723424E+20	9,959831E+20	1,360642E+21	1,360662E+21	9,960485E+20	3,724226E+20	7,893510E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891270E+18
-2009	3,723908E+20	9,960215E+20	1,360626E+21	1,360601E+21	9,959556E+20	3,723234E+20	7,887032E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890169E+18
-2008	3,723882E+20	9,959381E+20	1,360499E+21	1,360525E+21	9,959709E+20	3,723947E+20	7,889390E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887965E+18
-2007	3,723173E+20	9,959218E+20	1,360539E+21	1,360539E+21	9,959429E+20	3,723602E+20	7,892008E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893373E+18
-2006	3,723957E+20	9,959679E+20	1,360529E+21	1,360497E+21	9,958928E+20	3,723126E+20	7,886716E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888598E+18
-2005	3,723465E+20	9,958911E+20	1,360482E+21	1,360512E+21	9,959553E+20	3,723993E+20	7,891416E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888795E+18
-2004	3,723301E+20	9,959520E+20	1,360566E+21	1,360551E+21	9,959292E+20	3,723290E+20	7,889924E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893015E+18
-2003	3,724047E+20	9,959705E+20	1,360540E+21	1,360534E+21	9,959491E+20	3,723551E+20	7,887271E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886538E+18
-2002	3,723436E+20	9,959376E+20	1,360572E+21	1,360611E+21	9,960270E+20	3,724210E+20	7,891564E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891386E+18
-2001	3,723937E+20	9,960526E+20	1,360662E+21	1,360640E+21	9,959932E+20	3,723412E+20	7,888427E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890168E+18
-2000	3,724274E+20	9,960446E+20	1,360635E+21	1,360637E+21	9,960450E+20	3,724136E+20	7,887032E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,885629E+18
-1999	3,723532E+20	9,960325E+20	1,360714E+21	1,360723E+21	9,960799E+20	3,724216E+20	7,891559E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892435E+18
-1998	3,724327E+20	9,961041E+20	1,360740E+21	1,360721E+21	9,960487E+20	3,723579E+20	7,886257E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887310E+18
-1997	3,724164E+20	9,960492E+20	1,360677E+21	1,360708E+21	9,961041E+20	3,724465E+20	7,887772E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888327E+18
-1996	3,723758E+20	9,960745E+20	1,360733E+21	1,360724E+21	9,960711E+20	3,723923E+20	7,890778E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891832E+18
-1995	3,724459E+20	9,960911E+20	1,360690E+21	1,360660E+21	9,960273E+20	3,723728E+20	7,885352E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886311E+18
-1994	3,723753E+20	9,959981E+20	1,360636E+21	1,360663E+21	9,960603E+20	3,724378E+20	7,891659E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889596E+18
-1993	3,723668E+20	9,960303E+20	1,360655E+21	1,360634E+21	9,959823E+20	3,723402E+20	7,889626E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890650E+18



1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-1992	3,724047E+20	9,959796E+20	1,360543E+21	1,360532E+21	9,959519E+20	3,723656E+20	7,886900E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887668E+18
-1991	3,723137E+20	9,958863E+20	1,360512E+21	1,360534E+21	9,959522E+20	3,723841E+20	7,893340E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892577E+18
-1990	3,723658E+20	9,959339E+20	1,360498E+21	1,360475E+21	9,958685E+20	3,722906E+20	7,887321E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891421E+18
-1989	3,723651E+20	9,958695E+20	1,360399E+21	1,360405E+21	9,958797E+20	3,723633E+20	7,889994E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888458E+18
-1988	3,722899E+20	9,958467E+20	1,360440E+21	1,360435E+21	9,958614E+20	3,723311E+20	7,892597E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893266E+18
-1987	3,723590E+20	9,958812E+20	1,360420E+21	1,360393E+21	9,958173E+20	3,722877E+20	7,887870E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888974E+18
-1986	3,723174E+20	9,958081E+20	1,360374E+21	1,360418E+21	9,958923E+20	3,723756E+20	7,892066E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889379E+18
-1985	3,723052E+20	9,958765E+20	1,360462E+21	1,360455E+21	9,958680E+20	3,723099E+20	7,890798E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893975E+18
-1984	3,723886E+20	9,959130E+20	1,360446E+21	1,360426E+21	9,958712E+20	3,723286E+20	7,887682E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887075E+18
-1983	3,723230E+20	9,958808E+20	1,360494E+21	1,360521E+21	9,959510E+20	3,723922E+20	7,891560E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891703E+18
-1982	3,723674E+20	9,959880E+20	1,360583E+21	1,360561E+21	9,959316E+20	3,723171E+20	7,888905E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890626E+18
-1981	3,724009E+20	9,959804E+20	1,360558E+21	1,360556E+21	9,959822E+20	3,723887E+20	7,887228E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886510E+18
-1980	3,723312E+20	9,959592E+20	1,360619E+21	1,360635E+21	9,960178E+20	3,723976E+20	7,891812E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892800E+18
-1979	3,724051E+20	9,960234E+20	1,360629E+21	1,360613E+21	9,959757E+20	3,723353E+20	7,887042E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887929E+18
-1978	3,723928E+20	9,959734E+20	1,360567E+21	1,360602E+21	9,960316E+20	3,724219E+20	7,888702E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888483E+18
-1977	3,723451E+20	9,959974E+20	1,360625E+21	1,360612E+21	9,959915E+20	3,723698E+20	7,892196E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892154E+18
-1976	3,724135E+20	9,960091E+20	1,360578E+21	1,360536E+21	9,959293E+20	3,723392E+20	7,886323E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,886952E+18
-1975	3,723395E+20	9,959029E+20	1,360519E+21	1,360547E+21	9,959670E+20	3,723993E+20	7,891892E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890677E+18
-1974	3,723356E+20	9,959322E+20	1,360524E+21	1,360512E+21	9,958972E+20	3,723067E+20	7,889887E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892319E+18
-1973	3,723805E+20	9,958963E+20	1,360424E+21	1,360405E+21	9,958597E+20	3,723313E+20	7,887212E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888994E+18
-1972	3,722929E+20	9,958073E+20	1,360394E+21	1,360412E+21	9,958643E+20	3,723521E+20	7,893629E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892592E+18
-1971	3,723305E+20	9,958484E+20	1,360381E+21	1,360351E+21	9,957779E+20	3,722637E+20	7,888566E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891445E+18
-1970	3,723280E+20	9,957802E+20	1,360288E+21	1,360302E+21	9,958029E+20	3,723363E+20	7,891178E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888226E+18
-1969	3,722516E+20	9,957557E+20	1,360327E+21	1,360332E+21	9,957910E+20	3,723091E+20	7,893715E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894024E+18
-1968	3,723312E+20	9,958004E+20	1,360307E+21	1,360277E+21	9,957339E+20	3,722581E+20	7,888434E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890033E+18
-1967	3,722974E+20	9,957372E+20	1,360275E+21	1,360317E+21	9,958135E+20	3,723430E+20	7,891699E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890505E+18
-1966	3,722893E+20	9,958167E+20	1,360369E+21	1,360362E+21	9,958024E+20	3,722856E+20	7,891066E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894877E+18
-1965	3,723710E+20	9,958671E+20	1,360380E+21	1,360343E+21	9,958026E+20	3,723042E+20	7,888098E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887486E+18
-1964	3,723009E+20	9,958207E+20	1,360421E+21	1,360447E+21	9,958900E+20	3,723691E+20	7,892044E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891348E+18
-1963	3,723310E+20	9,959057E+20	1,360486E+21	1,360475E+21	9,958712E+20	3,722980E+20	7,890013E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890926E+18
-1962	3,723716E+20	9,958963E+20	1,360450E+21	1,360465E+21	9,959223E+20	3,723677E+20	7,888035E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887023E+18
-1961	3,723053E+20	9,958794E+20	1,360503E+21	1,360527E+21	9,959492E+20	3,723788E+20	7,892971E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893521E+18
-1960	3,723832E+20	9,959544E+20	1,360517E+21	1,360488E+21	9,958841E+20	3,723058E+20	7,887718E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888560E+18
-1959	3,723673E+20	9,959023E+20	1,360467E+21	1,360490E+21	9,959364E+20	3,723849E+20	7,888876E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889033E+18
-1958	3,723139E+20	9,959159E+20	1,360520E+21	1,360509E+21	9,959098E+20	3,723371E+20	7,892613E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893071E+18
-1957	3,723838E+20	9,959315E+20	1,360478E+21	1,360430E+21	9,958448E+20	3,723039E+20	7,886468E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888383E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-1956	3,723147E+20	9,958167E+20	1,360402E+21	1,360435E+21	9,958853E+20	3,723667E+20	7,892102E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891174E+18
-1955	3,723025E+20	9,958378E+20	1,360394E+21	1,360388E+21	9,958132E+20	3,722801E+20	7,890756E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893139E+18
-1954	3,723514E+20	9,958075E+20	1,360297E+21	1,360286E+21	9,957782E+20	3,723054E+20	7,888473E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889058E+18
-1953	3,722580E+20	9,957196E+20	1,360271E+21	1,360290E+21	9,957789E+20	3,723293E+20	7,895171E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892748E+18
-1952	3,722929E+20	9,957573E+20	1,360260E+21	1,360224E+21	9,956790E+20	3,722302E+20	7,889629E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892062E+18
-1951	3,722937E+20	9,956873E+20	1,360171E+21	1,360187E+21	9,957107E+20	3,722976E+20	7,891220E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889287E+18
-1950	3,722265E+20	9,956731E+20	1,360211E+21	1,360222E+21	9,957127E+20	3,722781E+20	7,893799E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895585E+18
-1949	3,723151E+20	9,957426E+20	1,360216E+21	1,360175E+21	9,956562E+20	3,722282E+20	7,888635E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891107E+18
-1948	3,722836E+20	9,956852E+20	1,360194E+21	1,360229E+21	9,957465E+20	3,723178E+20	7,891880E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890214E+18
-1947	3,722587E+20	9,957520E+20	1,360287E+21	1,360278E+21	9,957404E+20	3,722683E+20	7,892257E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894719E+18
-1946	3,723378E+20	9,957912E+20	1,360294E+21	1,360275E+21	9,957520E+20	3,722858E+20	7,889115E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,887320E+18
-1945	3,722683E+20	9,957404E+20	1,360319E+21	1,360362E+21	9,958363E+20	3,723531E+20	7,893044E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892073E+18
-1944	3,723043E+20	9,958255E+20	1,360373E+21	1,360364E+21	9,957933E+20	3,722711E+20	7,890514E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891956E+18
-1943	3,723519E+20	9,958253E+20	1,360345E+21	1,360357E+21	9,958383E+20	3,723337E+20	7,887745E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888240E+18
-1942	3,722893E+20	9,958189E+20	1,360401E+21	1,360416E+21	9,958677E+20	3,723494E+20	7,893330E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894453E+18
-1941	3,723628E+20	9,959015E+20	1,360434E+21	1,360384E+21	9,957973E+20	3,722742E+20	7,888155E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889322E+18
-1940	3,723420E+20	9,958321E+20	1,360376E+21	1,360398E+21	9,958588E+20	3,723522E+20	7,889299E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889074E+18
-1939	3,722753E+20	9,958217E+20	1,360403E+21	1,360403E+21	9,958352E+20	3,723114E+20	7,893597E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893738E+18
-1938	3,723502E+20	9,958332E+20	1,360351E+21	1,360323E+21	9,957718E+20	3,722780E+20	7,887498E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889004E+18
-1937	3,722829E+20	9,957245E+20	1,360268E+21	1,360309E+21	9,958034E+20	3,723446E+20	7,893596E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891600E+18
-1936	3,722680E+20	9,957470E+20	1,360261E+21	1,360246E+21	9,957100E+20	3,722485E+20	7,891878E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893497E+18
-1935	3,723143E+20	9,957163E+20	1,360176E+21	1,360158E+21	9,956744E+20	3,722668E+20	7,889030E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889537E+18
-1934	3,722222E+20	9,956262E+20	1,360147E+21	1,360170E+21	9,956886E+20	3,722941E+20	7,895589E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893803E+18
-1933	3,722635E+20	9,956778E+20	1,360150E+21	1,360110E+21	9,955913E+20	3,721945E+20	7,889761E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893610E+18
-1932	3,722741E+20	9,956128E+20	1,360065E+21	1,360084E+21	9,956326E+20	3,722635E+20	7,891099E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889872E+18
-1931	3,722016E+20	9,955992E+20	1,360106E+21	1,360121E+21	9,956427E+20	3,722548E+20	7,894395E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896342E+18
-1930	3,722929E+20	9,956763E+20	1,360124E+21	1,360091E+21	9,955968E+20	3,722093E+20	7,889822E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890940E+18
-1929	3,722544E+20	9,956195E+20	1,360105E+21	1,360143E+21	9,956867E+20	3,723034E+20	7,893283E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890134E+18
-1928	3,722239E+20	9,956736E+20	1,360189E+21	1,360183E+21	9,956686E+20	3,722444E+20	7,893247E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895125E+18
-1927	3,723074E+20	9,957097E+20	1,360189E+21	1,360176E+21	9,956782E+20	3,722551E+20	7,889027E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888431E+18
-1926	3,722485E+20	9,956671E+20	1,360207E+21	1,360255E+21	9,957644E+20	3,723254E+20	7,893052E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893596E+18
-1925	3,722917E+20	9,957746E+20	1,360283E+21	1,360260E+21	9,957134E+20	3,722406E+20	7,890539E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893119E+18
-1924	3,723391E+20	9,957763E+20	1,360263E+21	1,360262E+21	9,957613E+20	3,723030E+20	7,887922E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888071E+18
-1923	3,722577E+20	9,957520E+20	1,360316E+21	1,360326E+21	9,957968E+20	3,723261E+20	7,894395E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894407E+18
-1922	3,723275E+20	9,958191E+20	1,360339E+21	1,360305E+21	9,957372E+20	3,722520E+20	7,889326E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889340E+18
-1921	3,723048E+20	9,957427E+20	1,360261E+21	1,360297E+21	9,957934E+20	3,723327E+20	7,890619E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889709E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-1920	3,722403E+20	9,957239E+20	1,360271E+21	1,360277E+21	9,957467E+20	3,722817E+20	7,894369E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894682E+18
-1919	3,723200E+20	9,957403E+20	1,360218E+21	1,360191E+21	9,956758E+20	3,722412E+20	7,887633E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890293E+18
-1918	3,722569E+20	9,956406E+20	1,360136E+21	1,360171E+21	9,957058E+20	3,723105E+20	7,894230E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892602E+18
-1917	3,722394E+20	9,956705E+20	1,360150E+21	1,360118E+21	9,956061E+20	3,722099E+20	7,892290E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894562E+18
-1916	3,722844E+20	9,956304E+20	1,360062E+21	1,360043E+21	9,955815E+20	3,722268E+20	7,889373E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889881E+18
-1915	3,721860E+20	9,955311E+20	1,360023E+21	1,360053E+21	9,956057E+20	3,722633E+20	7,896149E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894816E+18
-1914	3,722362E+20	9,955895E+20	1,360032E+21	1,360008E+21	9,955209E+20	3,721698E+20	7,890711E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894226E+18
-1913	3,722495E+20	9,955420E+20	1,359957E+21	1,359978E+21	9,955640E+20	3,722444E+20	7,892304E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890196E+18
-1912	3,721732E+20	9,955275E+20	1,360004E+21	1,360010E+21	9,955617E+20	3,722307E+20	7,895412E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896421E+18
-1911	3,722599E+20	9,956013E+20	1,360031E+21	1,359997E+21	9,955220E+20	3,721803E+20	7,890257E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891260E+18
-1910	3,722245E+20	9,955443E+20	1,360005E+21	1,360049E+21	9,956194E+20	3,722767E+20	7,893482E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891144E+18
-1909	3,722005E+20	9,956058E+20	1,360095E+21	1,360085E+21	9,955967E+20	3,722153E+20	7,893242E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896419E+18
-1908	3,722915E+20	9,956467E+20	1,360097E+21	1,360084E+21	9,956096E+20	3,722248E+20	7,888774E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888952E+18
-1907	3,722288E+20	9,956056E+20	1,360113E+21	1,360159E+21	9,956975E+20	3,723033E+20	7,893574E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894201E+18
-1906	3,722709E+20	9,957143E+20	1,360199E+21	1,360178E+21	9,956531E+20	3,722232E+20	7,891870E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892829E+18
-1905	3,723087E+20	9,957121E+20	1,360180E+21	1,360176E+21	9,956973E+20	3,722854E+20	7,889461E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888020E+18
-1904	3,722191E+20	9,956638E+20	1,360209E+21	1,360224E+21	9,957193E+20	3,722988E+20	7,895445E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894781E+18
-1903	3,722914E+20	9,957237E+20	1,360217E+21	1,360192E+21	9,956567E+20	3,722186E+20	7,889450E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890694E+18
-1902	3,722783E+20	9,956531E+20	1,360127E+21	1,360167E+21	9,957062E+20	3,723003E+20	7,890960E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891320E+18
-1901	3,722195E+20	9,956482E+20	1,360150E+21	1,360144E+21	9,956491E+20	3,722456E+20	7,894542E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895888E+18
-1900	3,722960E+20	9,956648E+20	1,360105E+21	1,360067E+21	9,955788E+20	3,722032E+20	7,887946E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890516E+18
-1899	3,722197E+20	9,955512E+20	1,360020E+21	1,360052E+21	9,956147E+20	3,722779E+20	7,895077E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892993E+18
-1898	3,722029E+20	9,955733E+20	1,360032E+21	1,360014E+21	9,955288E+20	3,721815E+20	7,893275E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894982E+18
-1897	3,722493E+20	9,955393E+20	1,359941E+21	1,359929E+21	9,955044E+20	3,722018E+20	7,890588E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890545E+18
-1896	3,721542E+20	9,954401E+20	1,359899E+21	1,359930E+21	9,955182E+20	3,722329E+20	7,896762E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895592E+18
-1895	3,722101E+20	9,955112E+20	1,359916E+21	1,359889E+21	9,954379E+20	3,721395E+20	7,891118E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895095E+18
-1894	3,722248E+20	9,954724E+20	1,359852E+21	1,359866E+21	9,954849E+20	3,722184E+20	7,893013E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890897E+18
-1893	3,721478E+20	9,954621E+20	1,359917E+21	1,359913E+21	9,954821E+20	3,722004E+20	7,895748E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897172E+18
-1892	3,722327E+20	9,955263E+20	1,359938E+21	1,359908E+21	9,954523E+20	3,721489E+20	7,890371E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891524E+18
-1891	3,721952E+20	9,954648E+20	1,359902E+21	1,359951E+21	9,955542E+20	3,722529E+20	7,893744E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892093E+18
-1890	3,721806E+20	9,955334E+20	1,359997E+21	1,359998E+21	9,955381E+20	3,721969E+20	7,894190E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896677E+18
-1889	3,722708E+20	9,955898E+20	1,360009E+21	1,359991E+21	9,955478E+20	3,722090E+20	7,890009E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,888971E+18
-1888	3,722015E+20	9,955414E+20	1,360026E+21	1,360061E+21	9,956215E+20	3,722793E+20	7,894542E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894185E+18
-1887	3,722389E+20	9,956410E+20	1,360109E+21	1,360086E+21	9,955817E+20	3,721953E+20	7,892338E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893312E+18
-1886	3,722783E+20	9,956325E+20	1,360076E+21	1,360077E+21	9,956271E+20	3,722564E+20	7,889670E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889441E+18
-1885	3,721963E+20	9,955868E+20	1,360102E+21	1,360114E+21	9,956377E+20	3,722646E+20	7,895280E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896278E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-1884	3,722710E+20	9,956456E+20	1,360104E+21	1,360079E+21	9,955733E+20	3,721823E+20	7,889173E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891666E+18
-1883	3,722532E+20	9,955741E+20	1,360009E+21	1,360041E+21	9,956201E+20	3,722713E+20	7,891612E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892135E+18
-1882	3,721922E+20	9,955644E+20	1,360038E+21	1,360031E+21	9,955670E+20	3,722215E+20	7,895945E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895732E+18
-1881	3,722580E+20	9,955785E+20	1,359993E+21	1,359953E+21	9,954944E+20	3,721781E+20	7,889614E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890659E+18
-1880	3,721773E+20	9,954465E+20	1,359888E+21	1,359923E+21	9,955187E+20	3,722435E+20	7,896086E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893412E+18
-1879	3,721657E+20	9,954706E+20	1,359895E+21	1,359882E+21	9,954374E+20	3,721470E+20	7,893603E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896219E+18
-1878	3,722220E+20	9,954524E+20	1,359813E+21	1,359798E+21	9,954131E+20	3,721687E+20	7,891157E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891900E+18
-1877	3,721338E+20	9,953707E+20	1,359790E+21	1,359808E+21	9,954256E+20	3,721990E+20	7,896998E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896363E+18
-1876	3,721842E+20	9,954416E+20	1,359821E+21	1,359787E+21	9,953571E+20	3,721077E+20	7,891562E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895084E+18
-1875	3,721890E+20	9,953914E+20	1,359755E+21	1,359771E+21	9,954149E+20	3,721935E+20	7,893707E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891241E+18
-1874	3,721162E+20	9,953737E+20	1,359817E+21	1,359831E+21	9,954251E+20	3,721812E+20	7,896656E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897343E+18
-1873	3,722028E+20	9,954484E+20	1,359837E+21	1,359815E+21	9,953923E+20	3,721307E+20	7,891317E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892057E+18
-1872	3,721707E+20	9,953885E+20	1,359796E+21	1,359845E+21	9,954785E+20	3,722266E+20	7,894085E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892804E+18
-1871	3,721620E+20	9,954716E+20	1,359901E+21	1,359893E+21	9,954657E+20	3,721721E+20	7,894583E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897380E+18
-1870	3,722513E+20	9,955345E+20	1,359925E+21	1,359893E+21	9,954736E+20	3,721837E+20	7,890630E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,889815E+18
-1869	3,721812E+20	9,954835E+20	1,359948E+21	1,359972E+21	9,955451E+20	3,722477E+20	7,894716E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895022E+18
-1868	3,722138E+20	9,955678E+20	1,360016E+21	1,359998E+21	9,955130E+20	3,721631E+20	7,892278E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893935E+18
-1867	3,722501E+20	9,955502E+20	1,359967E+21	1,359972E+21	9,955569E+20	3,722299E+20	7,889842E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890710E+18
-1866	3,721754E+20	9,955042E+20	1,359991E+21	1,360012E+21	9,955681E+20	3,722431E+20	7,896283E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896457E+18
-1865	3,722422E+20	9,955706E+20	1,359995E+21	1,359964E+21	9,954950E+20	3,721620E+20	7,890630E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891670E+18
-1864	3,722153E+20	9,954849E+20	1,359893E+21	1,359916E+21	9,955237E+20	3,722411E+20	7,892938E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891996E+18
-1863	3,721521E+20	9,954682E+20	1,359914E+21	1,359905E+21	9,954748E+20	3,721887E+20	7,896720E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896189E+18
-1862	3,722196E+20	9,954787E+20	1,359861E+21	1,359823E+21	9,954022E+20	3,721437E+20	7,890313E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892060E+18
-1861	3,721506E+20	9,953578E+20	1,359763E+21	1,359795E+21	9,954211E+20	3,722027E+20	7,895970E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894830E+18
-1860	3,721432E+20	9,953881E+20	1,359776E+21	1,359762E+21	9,953477E+20	3,721093E+20	7,893471E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897208E+18
-1859	3,721956E+20	9,953743E+20	1,359701E+21	1,359680E+21	9,953304E+20	3,721406E+20	7,891842E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892682E+18
-1858	3,721073E+20	9,952916E+20	1,359693E+21	1,359712E+21	9,953527E+20	3,721776E+20	7,898262E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896076E+18
-1857	3,721465E+20	9,953596E+20	1,359723E+21	1,359693E+21	9,952888E+20	3,720875E+20	7,893031E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895165E+18
-1856	3,721502E+20	9,952948E+20	1,359638E+21	1,359661E+21	9,953361E+20	3,721657E+20	7,894405E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891763E+18
-1855	3,720890E+20	9,952872E+20	1,359695E+21	1,359714E+21	9,953495E+20	3,721544E+20	7,896863E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898426E+18
-1854	3,721836E+20	9,953803E+20	1,359730E+21	1,359704E+21	9,953153E+20	3,721043E+20	7,891786E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893297E+18
-1853	3,721599E+20	9,953407E+20	1,359713E+21	1,359744E+21	9,953968E+20	3,721948E+20	7,894022E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893587E+18
-1852	3,721440E+20	9,954204E+20	1,359830E+21	1,359812E+21	9,953948E+20	3,721427E+20	7,894802E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897447E+18
-1851	3,722226E+20	9,954693E+20	1,359848E+21	1,359817E+21	9,954132E+20	3,721600E+20	7,891013E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890436E+18
-1850	3,721549E+20	9,954063E+20	1,359860E+21	1,359898E+21	9,954923E+20	3,722300E+20	7,895628E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895043E+18
-1849	3,721831E+20	9,954912E+20	1,359919E+21	1,359907E+21	9,954539E+20	3,721460E+20	7,893354E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894258E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-1848	3,722192E+20	9,954633E+20	1,359848E+21	1,359856E+21	9,954746E+20	3,722043E+20	7,890682E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891170E+18
-1847	3,721476E+20	9,954208E+20	1,359866E+21	1,359884E+21	9,954829E+20	3,722178E+20	7,897304E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896728E+18
-1846	3,722084E+20	9,954867E+20	1,359880E+21	1,359840E+21	9,954003E+20	3,721317E+20	7,891721E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892588E+18
-1845	3,721848E+20	9,953979E+20	1,359776E+21	1,359792E+21	9,954206E+20	3,721989E+20	7,893293E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892944E+18
-1844	3,721202E+20	9,953739E+20	1,359788E+21	1,359783E+21	9,953800E+20	3,721472E+20	7,896623E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897200E+18
-1843	3,721890E+20	9,953856E+20	1,359732E+21	1,359696E+21	9,953121E+20	3,721091E+20	7,890597E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893541E+18
-1842	3,721278E+20	9,952728E+20	1,359646E+21	1,359682E+21	9,953401E+20	3,721763E+20	7,896945E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895015E+18
-1841	3,721123E+20	9,953125E+20	1,359670E+21	1,359651E+21	9,952697E+20	3,720882E+20	7,894896E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897282E+18
-1840	3,721555E+20	9,952818E+20	1,359588E+21	1,359567E+21	9,952432E+20	3,721126E+20	7,893077E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892692E+18
-1839	3,720705E+20	9,951965E+20	1,359570E+21	1,359599E+21	9,952758E+20	3,721504E+20	7,898854E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896560E+18
-1838	3,721117E+20	9,952681E+20	1,359602E+21	1,359578E+21	9,952094E+20	3,720589E+20	7,893584E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896596E+18
-1837	3,721313E+20	9,952213E+20	1,359529E+21	1,359548E+21	9,952487E+20	3,721289E+20	7,894052E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893050E+18
-1836	3,720756E+20	9,952282E+20	1,359598E+21	1,359612E+21	9,952713E+20	3,721222E+20	7,896641E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899241E+18
-1835	3,721662E+20	9,953282E+20	1,359648E+21	1,359613E+21	9,952478E+20	3,720821E+20	7,892373E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893899E+18
-1834	3,721409E+20	9,952873E+20	1,359649E+21	1,359678E+21	9,953400E+20	3,721775E+20	7,895148E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893247E+18
-1833	3,721126E+20	9,953555E+20	1,359755E+21	1,359743E+21	9,953432E+20	3,721277E+20	7,896204E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897252E+18
-1832	3,721848E+20	9,953804E+20	1,359744E+21	1,359726E+21	9,953474E+20	3,721372E+20	7,891759E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,890896E+18
-1831	3,721278E+20	9,953222E+20	1,359739E+21	1,359785E+21	9,954215E+20	3,722068E+20	7,896217E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895665E+18
-1830	3,721552E+20	9,954111E+20	1,359800E+21	1,359787E+21	9,953715E+20	3,721204E+20	7,894223E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895253E+18
-1829	3,721976E+20	9,953935E+20	1,359740E+21	1,359735E+21	9,953778E+20	3,721677E+20	7,890987E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,891958E+18
-1828	3,721205E+20	9,953452E+20	1,359759E+21	1,359770E+21	9,953890E+20	3,721801E+20	7,897613E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897136E+18
-1827	3,721737E+20	9,953984E+20	1,359766E+21	1,359728E+21	9,953157E+20	3,720981E+20	7,892020E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893816E+18
-1826	3,721563E+20	9,953077E+20	1,359663E+21	1,359687E+21	9,953406E+20	3,721680E+20	7,893966E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893529E+18
-1825	3,720896E+20	9,952884E+20	1,359671E+21	1,359671E+21	9,952999E+20	3,721198E+20	7,897358E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897873E+18
-1824	3,721558E+20	9,952924E+20	1,359604E+21	1,359570E+21	9,952211E+20	3,720787E+20	7,891511E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894214E+18
-1823	3,720986E+20	9,951881E+20	1,359518E+21	1,359550E+21	9,952531E+20	3,721504E+20	7,898088E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895184E+18
-1822	3,720739E+20	9,952228E+20	1,359553E+21	1,359531E+21	9,951801E+20	3,720608E+20	7,896224E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898163E+18
-1821	3,721229E+20	9,951904E+20	1,359468E+21	1,359449E+21	9,951492E+20	3,720744E+20	7,893484E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893615E+18
-1820	3,720422E+20	9,951073E+20	1,359445E+21	1,359482E+21	9,951888E+20	3,721134E+20	7,898643E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897598E+18
-1819	3,720872E+20	9,951893E+20	1,359488E+21	1,359465E+21	9,951302E+20	3,720296E+20	7,893788E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897887E+18
-1818	3,721155E+20	9,951605E+20	1,359440E+21	1,359455E+21	9,951791E+20	3,721063E+20	7,894883E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892949E+18
-1817	3,720516E+20	9,951779E+20	1,359526E+21	1,359532E+21	9,952102E+20	3,721061E+20	7,897961E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898869E+18
-1816	3,721309E+20	9,952566E+20	1,359565E+21	1,359532E+21	9,951829E+20	3,720616E+20	7,893659E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893611E+18
-1815	3,721080E+20	9,952094E+20	1,359548E+21	1,359591E+21	9,952843E+20	3,721584E+20	7,895900E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893438E+18
-1814	3,720786E+20	9,952726E+20	1,359650E+21	1,359649E+21	9,952794E+20	3,721055E+20	7,896868E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898474E+18
-1813	3,721644E+20	9,953054E+20	1,359635E+21	1,359618E+21	9,952660E+20	3,721024E+20	7,891431E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892271E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-1812	3,721122E+20	9,952560E+20	1,359628E+21	1,359672E+21	9,953380E+20	3,721729E+20	7,896062E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896601E+18
-1811	3,721331E+20	9,953452E+20	1,359699E+21	1,359676E+21	9,952890E+20	3,720919E+20	7,894674E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896188E+18
-1810	3,721729E+20	9,953237E+20	1,359651E+21	1,359640E+21	9,952979E+20	3,721394E+20	7,892037E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892073E+18
-1809	3,720862E+20	9,952653E+20	1,359657E+21	1,359672E+21	9,953132E+20	3,721530E+20	7,898669E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897359E+18
-1808	3,721340E+20	9,952971E+20	1,359635E+21	1,359608E+21	9,952294E+20	3,720673E+20	7,892769E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894678E+18
-1807	3,721271E+20	9,952157E+20	1,359524E+21	1,359555E+21	9,952553E+20	3,721392E+20	7,894817E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894162E+18
-1806	3,720573E+20	9,952004E+20	1,359544E+21	1,359541E+21	9,952086E+20	3,720919E+20	7,898451E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898849E+18
-1805	3,721267E+20	9,952097E+20	1,359486E+21	1,359444E+21	9,951205E+20	3,720412E+20	7,892178E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894935E+18
-1804	3,720656E+20	9,951013E+20	1,359399E+21	1,359432E+21	9,951596E+20	3,721132E+20	7,898487E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895667E+18
-1803	3,720363E+20	9,951264E+20	1,359431E+21	1,359417E+21	9,950983E+20	3,720293E+20	7,896583E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899355E+18
-1802	3,720944E+20	9,951035E+20	1,359357E+21	1,359345E+21	9,950722E+20	3,720456E+20	7,894115E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894137E+18
-1801	3,720171E+20	9,950341E+20	1,359340E+21	1,359377E+21	9,951148E+20	3,720884E+20	7,899228E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898004E+18
-1800	3,720586E+20	9,951127E+20	1,359379E+21	1,359357E+21	9,950545E+20	3,720065E+20	7,894831E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898206E+18
-1799	3,720925E+20	9,950993E+20	1,359344E+21	1,359355E+21	9,951106E+20	3,720858E+20	7,895936E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892917E+18
-1798	3,720194E+20	9,951084E+20	1,359441E+21	1,359445E+21	9,951425E+20	3,720846E+20	7,899097E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899620E+18
-1797	3,721039E+20	9,951808E+20	1,359469E+21	1,359443E+21	9,951119E+20	3,720292E+20	7,893768E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894580E+18
-1796	3,720863E+20	9,951364E+20	1,359442E+21	1,359491E+21	9,952117E+20	3,721258E+20	7,895438E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894640E+18
-1795	3,720585E+20	9,952012E+20	1,359544E+21	1,359545E+21	9,952088E+20	3,720785E+20	7,896859E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899683E+18
-1794	3,721478E+20	9,952470E+20	1,359548E+21	1,359523E+21	9,951948E+20	3,720782E+20	7,892042E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892492E+18
-1793	3,720878E+20	9,951986E+20	1,359545E+21	1,359578E+21	9,952654E+20	3,721503E+20	7,897128E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896405E+18
-1792	3,720948E+20	9,952602E+20	1,359595E+21	1,359576E+21	9,952116E+20	3,720665E+20	7,895812E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896340E+18
-1791	3,721386E+20	9,952358E+20	1,359530E+21	1,359528E+21	9,952237E+20	3,721127E+20	7,892993E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892480E+18
-1790	3,720491E+20	9,951717E+20	1,359535E+21	1,359554E+21	9,952300E+20	3,721239E+20	7,899501E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898550E+18
-1789	3,721076E+20	9,952078E+20	1,359506E+21	1,359481E+21	9,951339E+20	3,720286E+20	7,892906E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896008E+18
-1788	3,721025E+20	9,951348E+20	1,359397E+21	1,359424E+21	9,951591E+20	3,721025E+20	7,895177E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895037E+18
-1787	3,720266E+20	9,951158E+20	1,359428E+21	1,359418E+21	9,951177E+20	3,720609E+20	7,899151E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899736E+18
-1786	3,720928E+20	9,951215E+20	1,359378E+21	1,359335E+21	9,950346E+20	3,720111E+20	7,893377E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895239E+18
-1785	3,720280E+20	9,950086E+20	1,359280E+21	1,359319E+21	9,950788E+20	3,720840E+20	7,899362E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895975E+18
-1784	3,719972E+20	9,950209E+20	1,359292E+21	1,359288E+21	9,950105E+20	3,719992E+20	7,897311E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,900161E+18
-1783	3,720680E+20	9,950182E+20	1,359224E+21	1,359215E+21	9,949898E+20	3,720183E+20	7,895012E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894480E+18
-1782	3,719892E+20	9,949627E+20	1,359236E+21	1,359266E+21	9,950336E+20	3,720629E+20	7,900108E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898824E+18
-1781	3,720358E+20	9,950474E+20	1,359288E+21	1,359257E+21	9,949725E+20	3,719750E+20	7,895396E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898735E+18
-1780	3,720670E+20	9,950336E+20	1,359257E+21	1,359267E+21	9,950395E+20	3,720544E+20	7,895882E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893621E+18
-1779	3,719930E+20	9,950355E+20	1,359350E+21	1,359360E+21	9,950825E+20	3,720589E+20	7,899008E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,900805E+18
-1778	3,720828E+20	9,951139E+20	1,359386E+21	1,359362E+21	9,950529E+20	3,720051E+20	7,893952E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895197E+18
-1777	3,720673E+20	9,950775E+20	1,359353E+21	1,359401E+21	9,951504E+20	3,721042E+20	7,895736E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894992E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-1776	3,720322E+20	9,951281E+20	1,359441E+21	1,359441E+21	9,951391E+20	3,720588E+20	7,897931E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899791E+18
-1775	3,721218E+20	9,951807E+20	1,359448E+21	1,359419E+21	9,951243E+20	3,720585E+20	7,893432E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,892354E+18
-1774	3,720517E+20	9,951189E+20	1,359448E+21	1,359479E+21	9,951881E+20	3,721249E+20	7,898411E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897129E+18
-1773	3,720635E+20	9,951697E+20	1,359478E+21	1,359463E+21	9,951254E+20	3,720308E+20	7,896130E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897448E+18
-1772	3,721123E+20	9,951506E+20	1,359406E+21	1,359404E+21	9,951320E+20	3,720738E+20	7,892853E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893887E+18
-1771	3,720247E+20	9,950877E+20	1,359412E+21	1,359429E+21	9,951425E+20	3,720906E+20	7,899659E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899690E+18
-1770	3,720825E+20	9,951337E+20	1,359403E+21	1,359367E+21	9,950488E+20	3,719990E+20	7,893763E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896467E+18
-1769	3,720698E+20	9,950569E+20	1,359292E+21	1,359310E+21	9,950735E+20	3,720744E+20	7,896407E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894920E+18
-1768	3,719810E+20	9,950058E+20	1,359296E+21	1,359298E+21	9,950323E+20	3,720328E+20	7,900306E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,900011E+18
-1767	3,720535E+20	9,950177E+20	1,359237E+21	1,359207E+21	9,949520E+20	3,719823E+20	7,894404E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895826E+18
-1766	3,719917E+20	9,949099E+20	1,359148E+21	1,359188E+21	9,949867E+20	3,720517E+20	7,899960E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897258E+18
-1765	3,719745E+20	9,949353E+20	1,359165E+21	1,359157E+21	9,949142E+20	3,719616E+20	7,897362E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901393E+18
-1764	3,720494E+20	9,949539E+20	1,359118E+21	1,359095E+21	9,948987E+20	3,719831E+20	7,895192E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895309E+18
-1763	3,719668E+20	9,948999E+20	1,359150E+21	1,359169E+21	9,949573E+20	3,720347E+20	7,900446E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899573E+18
-1762	3,720100E+20	9,949830E+20	1,359214E+21	1,359182E+21	9,949112E+20	3,719512E+20	7,896246E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899008E+18
-1761	3,720386E+20	9,949634E+20	1,359171E+21	1,359187E+21	9,949832E+20	3,720325E+20	7,896273E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893892E+18
-1760	3,719622E+20	9,949476E+20	1,359240E+21	1,359262E+21	9,950201E+20	3,720393E+20	7,899675E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901194E+18
-1759	3,720590E+20	9,950421E+20	1,359276E+21	1,359257E+21	9,949893E+20	3,719870E+20	7,894992E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895155E+18
-1758	3,720388E+20	9,950114E+20	1,359262E+21	1,359298E+21	9,950763E+20	3,720835E+20	7,896859E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895497E+18
-1757	3,720064E+20	9,950559E+20	1,359344E+21	1,359337E+21	9,950570E+20	3,720294E+20	7,898730E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,900166E+18
-1756	3,720931E+20	9,951052E+20	1,359347E+21	1,359317E+21	9,950435E+20	3,720246E+20	7,893580E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893323E+18
-1755	3,720246E+20	9,950376E+20	1,359343E+21	1,359377E+21	9,951122E+20	3,720918E+20	7,898286E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898500E+18
-1754	3,720410E+20	9,950939E+20	1,359378E+21	1,359359E+21	9,950484E+20	3,720001E+20	7,896337E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898400E+18
-1753	3,720891E+20	9,950780E+20	1,359300E+21	1,359293E+21	9,950532E+20	3,720446E+20	7,893254E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894447E+18
-1752	3,719930E+20	9,949985E+20	1,359289E+21	1,359304E+21	9,950570E+20	3,720652E+20	7,900801E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899821E+18
-1751	3,720467E+20	9,950440E+20	1,359278E+21	1,359243E+21	9,949641E+20	3,719743E+20	7,895405E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896540E+18
-1750	3,720253E+20	9,949540E+20	1,359168E+21	1,359187E+21	9,949828E+20	3,720445E+20	7,897813E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895796E+18
-1749	3,719462E+20	9,948959E+20	1,359149E+21	1,359159E+21	9,949324E+20	3,719939E+20	7,900624E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901168E+18
-1748	3,720253E+20	9,949238E+20	1,359098E+21	1,359064E+21	9,948482E+20	3,719411E+20	7,894368E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897257E+18
-1747	3,719703E+20	9,948313E+20	1,359030E+21	1,359062E+21	9,948926E+20	3,720148E+20	7,899872E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898323E+18
-1746	3,719537E+20	9,948746E+20	1,359078E+21	1,359055E+21	9,948323E+20	3,719333E+20	7,898078E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901756E+18
-1745	3,720217E+20	9,948921E+20	1,359042E+21	1,359011E+21	9,948296E+20	3,719581E+20	7,896060E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895122E+18
-1744	3,719296E+20	9,948123E+20	1,359050E+21	1,359082E+21	9,948968E+20	3,720147E+20	7,901338E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899638E+18
-1743	3,719774E+20	9,948997E+20	1,359105E+21	1,359090E+21	9,948569E+20	3,719343E+20	7,897371E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899158E+18
-1742	3,720066E+20	9,948820E+20	1,359069E+21	1,359089E+21	9,949168E+20	3,720113E+20	7,896900E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,894894E+18
-1741	3,719431E+20	9,948704E+20	1,359127E+21	1,359151E+21	9,949426E+20	3,720114E+20	7,899970E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901948E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-1740	3,720400E+20	9,949817E+20	1,359180E+21	1,359147E+21	9,949055E+20	3,719572E+20	7,895225E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896020E+18
-1739	3,720184E+20	9,949495E+20	1,359177E+21	1,359202E+21	9,949974E+20	3,720530E+20	7,897071E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896422E+18
-1738	3,719832E+20	9,949918E+20	1,359265E+21	1,359253E+21	9,949868E+20	3,720015E+20	7,899319E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,900827E+18
-1737	3,720686E+20	9,950347E+20	1,359253E+21	1,359223E+21	9,949729E+20	3,719955E+20	7,893764E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,893964E+18
-1736	3,719953E+20	9,949475E+20	1,359222E+21	1,359263E+21	9,950365E+20	3,720663E+20	7,898957E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898913E+18
-1735	3,720136E+20	9,950140E+20	1,359257E+21	1,359243E+21	9,949741E+20	3,719784E+20	7,897599E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898422E+18
-1734	3,720524E+20	9,949941E+20	1,359192E+21	1,359176E+21	9,949661E+20	3,720196E+20	7,894702E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895022E+18
-1733	3,719582E+20	9,948993E+20	1,359162E+21	1,359178E+21	9,949615E+20	3,720320E+20	7,901763E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,900166E+18
-1732	3,720081E+20	9,949442E+20	1,359146E+21	1,359111E+21	9,948649E+20	3,719362E+20	7,895719E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897808E+18
-1731	3,719929E+20	9,948546E+20	1,359036E+21	1,359055E+21	9,948849E+20	3,720043E+20	7,897789E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897154E+18
-1730	3,719217E+20	9,948124E+20	1,359030E+21	1,359034E+21	9,948384E+20	3,719578E+20	7,900780E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902196E+18
-1729	3,720020E+20	9,948509E+20	1,358987E+21	1,358947E+21	9,947612E+20	3,719088E+20	7,894880E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897659E+18
-1728	3,719398E+20	9,947499E+20	1,358920E+21	1,358949E+21	9,948118E+20	3,719902E+20	7,900986E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898275E+18
-1727	3,719203E+20	9,947958E+20	1,358976E+21	1,358957E+21	9,947643E+20	3,719147E+20	7,899824E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901635E+18
-1726	3,719803E+20	9,948023E+20	1,358942E+21	1,358920E+21	9,947620E+20	3,719363E+20	7,897347E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895901E+18
-1725	3,719009E+20	9,947176E+20	1,358926E+21	1,358971E+21	9,948206E+20	3,719857E+20	7,901564E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,900512E+18
-1724	3,719536E+20	9,948213E+20	1,358988E+21	1,358972E+21	9,947739E+20	3,719028E+20	7,897292E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,900370E+18
-1723	3,719898E+20	9,948189E+20	1,358971E+21	1,358983E+21	9,948368E+20	3,719804E+20	7,896701E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895886E+18
-1722	3,719281E+20	9,948222E+20	1,359051E+21	1,359059E+21	9,948677E+20	3,719860E+20	7,900590E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902266E+18
-1721	3,720163E+20	9,949255E+20	1,359107E+21	1,359069E+21	9,948398E+20	3,719323E+20	7,895808E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896043E+18
-1720	3,719874E+20	9,948714E+20	1,359082E+21	1,359117E+21	9,949349E+20	3,720298E+20	7,897668E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896793E+18
-1719	3,719552E+20	9,949142E+20	1,359159E+21	1,359159E+21	9,949262E+20	3,719821E+20	7,900383E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901019E+18
-1718	3,720365E+20	9,949541E+20	1,359150E+21	1,359123E+21	9,949013E+20	3,719717E+20	7,894521E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895020E+18
-1717	3,719723E+20	9,948640E+20	1,359098E+21	1,359140E+21	9,949502E+20	3,720369E+20	7,899672E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899334E+18
-1716	3,719837E+20	9,949355E+20	1,359142E+21	1,359117E+21	9,948780E+20	3,719465E+20	7,898255E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899255E+18
-1715	3,720195E+20	9,949059E+20	1,359079E+21	1,359060E+21	9,948712E+20	3,719835E+20	7,895280E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896088E+18
-1714	3,719271E+20	9,948085E+20	1,359042E+21	1,359060E+21	9,948701E+20	3,719968E+20	7,902367E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901080E+18
-1713	3,719767E+20	9,948508E+20	1,359018E+21	1,358986E+21	9,947726E+20	3,718996E+20	7,895914E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898730E+18
-1712	3,719615E+20	9,947560E+20	1,358896E+21	1,358920E+21	9,947904E+20	3,719707E+20	7,898395E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897647E+18
-1711	3,718935E+20	9,947308E+20	1,358906E+21	1,358910E+21	9,947536E+20	3,719327E+20	7,902111E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902175E+18
-1710	3,719640E+20	9,947693E+20	1,358885E+21	1,358839E+21	9,946776E+20	3,718838E+20	7,896473E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898159E+18
-1709	3,719057E+20	9,946571E+20	1,358802E+21	1,358839E+21	9,947289E+20	3,719601E+20	7,901836E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898605E+18
-1708	3,718857E+20	9,947079E+20	1,358861E+21	1,358847E+21	9,946831E+20	3,718838E+20	7,900049E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902994E+18
-1707	3,719541E+20	9,947173E+20	1,358830E+21	1,358813E+21	9,946832E+20	3,719031E+20	7,897110E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897288E+18
-1706	3,718853E+20	9,946523E+20	1,358825E+21	1,358868E+21	9,947450E+20	3,719562E+20	7,901442E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901497E+18
-1705	3,719371E+20	9,947663E+20	1,358898E+21	1,358875E+21	9,947012E+20	3,718757E+20	7,897551E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,900616E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-1704	3,719653E+20	9,947551E+20	1,358881E+21	1,358887E+21	9,947657E+20	3,719587E+20	7,897614E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,895769E+18
-1703	3,719004E+20	9,947581E+20	1,358966E+21	1,358980E+21	9,948088E+20	3,719698E+20	7,902250E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901989E+18
-1702	3,719796E+20	9,948480E+20	1,359019E+21	1,358989E+21	9,947795E+20	3,719130E+20	7,897070E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896757E+18
-1701	3,719608E+20	9,947850E+20	1,358964E+21	1,359010E+21	9,948606E+20	3,720019E+20	7,898109E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897484E+18
-1700	3,719300E+20	9,948387E+20	1,359045E+21	1,359042E+21	9,948411E+20	3,719517E+20	7,900565E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902032E+18
-1699	3,720123E+20	9,948815E+20	1,359045E+21	1,359011E+21	9,948146E+20	3,719385E+20	7,894656E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896041E+18
-1698	3,719484E+20	9,947967E+20	1,358999E+21	1,359031E+21	9,948636E+20	3,720064E+20	7,900484E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899771E+18
-1697	3,719498E+20	9,948516E+20	1,359035E+21	1,359011E+21	9,947948E+20	3,719138E+20	7,898806E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899647E+18
-1696	3,719802E+20	9,948021E+20	1,358946E+21	1,358939E+21	9,947861E+20	3,719521E+20	7,896036E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896770E+18
-1695	3,718941E+20	9,947111E+20	1,358905E+21	1,358935E+21	9,947850E+20	3,719685E+20	7,903458E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901489E+18
-1694	3,719406E+20	9,947563E+20	1,358890E+21	1,358861E+21	9,946825E+20	3,718698E+20	7,896844E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899925E+18
-1693	3,719352E+20	9,946672E+20	1,358761E+21	1,358782E+21	9,946913E+20	3,719359E+20	7,899182E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898144E+18
-1692	3,718629E+20	9,946520E+20	1,358791E+21	1,358782E+21	9,946542E+20	3,718992E+20	7,902726E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903120E+18
-1691	3,719312E+20	9,946835E+20	1,358779E+21	1,358735E+21	9,945915E+20	3,718490E+20	7,897020E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899317E+18
-1690	3,718793E+20	9,945774E+20	1,358692E+21	1,358733E+21	9,946499E+20	3,719285E+20	7,902165E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899548E+18
-1689	3,718586E+20	9,946261E+20	1,358748E+21	1,358740E+21	9,946073E+20	3,718536E+20	7,900148E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903653E+18
-1688	3,719272E+20	9,946363E+20	1,358714E+21	1,358703E+21	9,946082E+20	3,718773E+20	7,897590E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897532E+18
-1687	3,718628E+20	9,945889E+20	1,358725E+21	1,358768E+21	9,946771E+20	3,719386E+20	7,902760E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901152E+18
-1686	3,719031E+20	9,947000E+20	1,358818E+21	1,358792E+21	9,946368E+20	3,718585E+20	7,899112E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,900823E+18
-1685	3,719360E+20	9,946792E+20	1,358784E+21	1,358796E+21	9,946968E+20	3,719331E+20	7,898414E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896006E+18
-1684	3,718712E+20	9,946860E+20	1,358869E+21	1,358883E+21	9,947362E+20	3,719418E+20	7,902431E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903157E+18
-1683	3,719560E+20	9,947737E+20	1,358920E+21	1,358895E+21	9,947077E+20	3,718813E+20	7,896846E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898182E+18
-1682	3,719462E+20	9,947249E+20	1,358866E+21	1,358909E+21	9,947857E+20	3,719714E+20	7,898072E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898522E+18
-1681	3,719100E+20	9,947758E+20	1,358949E+21	1,358939E+21	9,947645E+20	3,719228E+20	7,900865E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902330E+18
-1680	3,719807E+20	9,948024E+20	1,358939E+21	1,358903E+21	9,947345E+20	3,719121E+20	7,895577E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896397E+18
-1679	3,719148E+20	9,947103E+20	1,358884E+21	1,358926E+21	9,947878E+20	3,719828E+20	7,902147E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899834E+18
-1678	3,719076E+20	9,947501E+20	1,358909E+21	1,358897E+21	9,947139E+20	3,718867E+20	7,899921E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,900782E+18
-1677	3,719487E+20	9,946973E+20	1,358795E+21	1,358796E+21	9,946863E+20	3,719149E+20	7,896654E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897636E+18
-1676	3,718655E+20	9,946254E+20	1,358771E+21	1,358789E+21	9,946774E+20	3,719297E+20	7,903656E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902585E+18
-1675	3,719126E+20	9,946751E+20	1,358772E+21	1,358733E+21	9,945819E+20	3,718324E+20	7,897314E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,900937E+18
-1674	3,719076E+20	9,945946E+20	1,358656E+21	1,358668E+21	9,945996E+20	3,719020E+20	7,900017E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898673E+18
-1673	3,718286E+20	9,945674E+20	1,358686E+21	1,358680E+21	9,945741E+20	3,718667E+20	7,903137E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903573E+18
-1672	3,718929E+20	9,945845E+20	1,358654E+21	1,358624E+21	9,945171E+20	3,718217E+20	7,897745E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899910E+18
-1671	3,718490E+20	9,944890E+20	1,358570E+21	1,358626E+21	9,945804E+20	3,719066E+20	7,903174E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899708E+18
-1670	3,718256E+20	9,945419E+20	1,358637E+21	1,358634E+21	9,945363E+20	3,718323E+20	7,901203E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904283E+18
-1669	3,719014E+20	9,945590E+20	1,358599E+21	1,358584E+21	9,945259E+20	3,718508E+20	7,898528E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897588E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-1668	3,718356E+20	9,945253E+20	1,358635E+21	1,358662E+21	9,945923E+20	3,719103E+20	7,903296E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901948E+18
-1667	3,718755E+20	9,946278E+20	1,358730E+21	1,358706E+21	9,945655E+20	3,718289E+20	7,899536E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901997E+18
-1666	3,719173E+20	9,946170E+20	1,358692E+21	1,358705E+21	9,946285E+20	3,719028E+20	7,898350E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897289E+18
-1665	3,718536E+20	9,946212E+20	1,358774E+21	1,358788E+21	9,946677E+20	3,719115E+20	7,902141E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903913E+18
-1664	3,719335E+20	9,947039E+20	1,358818E+21	1,358795E+21	9,946395E+20	3,718561E+20	7,897182E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898569E+18
-1663	3,719226E+20	9,946610E+20	1,358771E+21	1,358813E+21	9,947184E+20	3,719528E+20	7,899457E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898247E+18
-1662	3,718714E+20	9,946936E+20	1,358854E+21	1,358847E+21	9,946961E+20	3,719032E+20	7,902394E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902547E+18
-1661	3,719432E+20	9,947052E+20	1,358813E+21	1,358786E+21	9,946519E+20	3,718826E+20	7,896521E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,896968E+18
-1660	3,718807E+20	9,946183E+20	1,358755E+21	1,358792E+21	9,946917E+20	3,719477E+20	7,902456E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901097E+18
-1659	3,718784E+20	9,946566E+20	1,358780E+21	1,358768E+21	9,946182E+20	3,718482E+20	7,899878E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902385E+18
-1658	3,719296E+20	9,946245E+20	1,358673E+21	1,358663E+21	9,945867E+20	3,718755E+20	7,896919E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898713E+18
-1657	3,718403E+20	9,945511E+20	1,358660E+21	1,358666E+21	9,945828E+20	3,718935E+20	7,904027E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902806E+18
-1656	3,718753E+20	9,945864E+20	1,358660E+21	1,358621E+21	9,944974E+20	3,718033E+20	7,898448E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901329E+18
-1655	3,718696E+20	9,945000E+20	1,358541E+21	1,358565E+21	9,945256E+20	3,718788E+20	7,901754E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898731E+18
-1654	3,717855E+20	9,944611E+20	1,358561E+21	1,358571E+21	9,945018E+20	3,718438E+20	7,904255E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904429E+18
-1653	3,718597E+20	9,944820E+20	1,358510E+21	1,358488E+21	9,944282E+20	3,717910E+20	7,898471E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,900540E+18
-1652	3,718223E+20	9,944111E+20	1,358448E+21	1,358489E+21	9,944838E+20	3,718735E+20	7,903313E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,900597E+18
-1651	3,718008E+20	9,944696E+20	1,358535E+21	1,358523E+21	9,944502E+20	3,718006E+20	7,901607E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905203E+18
-1650	3,718811E+20	9,945009E+20	1,358513E+21	1,358489E+21	9,944472E+20	3,718190E+20	7,898922E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898316E+18
-1649	3,718127E+20	9,944615E+20	1,358554E+21	1,358580E+21	9,945259E+20	3,718795E+20	7,903123E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902646E+18
-1648	3,718499E+20	9,945543E+20	1,358637E+21	1,358620E+21	9,945070E+20	3,718057E+20	7,899862E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902713E+18
-1647	3,718970E+20	9,945511E+20	1,358603E+21	1,358623E+21	9,945726E+20	3,718843E+20	7,899046E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,897578E+18
-1646	3,718277E+20	9,945521E+20	1,358683E+21	1,358700E+21	9,946097E+20	3,718944E+20	7,903088E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904220E+18
-1645	3,719055E+20	9,946282E+20	1,358709E+21	1,358683E+21	9,945632E+20	3,718332E+20	7,898278E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898545E+18
-1644	3,718903E+20	9,945876E+20	1,358672E+21	1,358698E+21	9,946313E+20	3,719246E+20	7,900287E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898946E+18
-1643	3,718375E+20	9,946003E+20	1,358739E+21	1,358737E+21	9,946130E+20	3,718714E+20	7,903084E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903655E+18
-1642	3,719168E+20	9,946197E+20	1,358688E+21	1,358661E+21	9,945608E+20	3,718462E+20	7,896796E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898331E+18
-1641	3,718570E+20	9,945356E+20	1,358634E+21	1,358664E+21	9,945952E+20	3,719070E+20	7,902266E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901833E+18
-1640	3,718498E+20	9,945717E+20	1,358656E+21	1,358639E+21	9,945266E+20	3,718163E+20	7,900449E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902851E+18
-1639	3,718980E+20	9,945446E+20	1,358566E+21	1,358552E+21	9,945030E+20	3,718500E+20	7,898576E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898538E+18
-1638	3,717971E+20	9,944557E+20	1,358550E+21	1,358563E+21	9,945070E+20	3,718696E+20	7,905501E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902989E+18
-1637	3,718319E+20	9,944759E+20	1,358520E+21	1,358494E+21	9,944126E+20	3,717739E+20	7,899567E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902013E+18
-1636	3,718323E+20	9,943998E+20	1,358406E+21	1,358427E+21	9,944307E+20	3,718449E+20	7,902115E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,900043E+18
-1635	3,717569E+20	9,943614E+20	1,358427E+21	1,358442E+21	9,944097E+20	3,718077E+20	7,904212E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905939E+18
-1634	3,718419E+20	9,944111E+20	1,358390E+21	1,358359E+21	9,943338E+20	3,717548E+20	7,898601E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901675E+18
-1633	3,718037E+20	9,943501E+20	1,358354E+21	1,358377E+21	9,943941E+20	3,718378E+20	7,903220E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,900998E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-1632	3,717741E+20	9,944007E+20	1,358447E+21	1,358431E+21	9,943784E+20	3,717756E+20	7,902410E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905641E+18
-1631	3,718545E+20	9,944311E+20	1,358430E+21	1,358415E+21	9,943908E+20	3,718000E+20	7,900187E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898466E+18
-1630	3,717830E+20	9,943845E+20	1,358462E+21	1,358501E+21	9,944739E+20	3,718623E+20	7,903908E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903189E+18
-1629	3,718244E+20	9,944760E+20	1,358526E+21	1,358515E+21	9,944399E+20	3,717843E+20	7,900654E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902900E+18
-1628	3,718724E+20	9,944878E+20	1,358506E+21	1,358509E+21	9,944937E+20	3,718598E+20	7,899449E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898071E+18
-1627	3,718001E+20	9,944772E+20	1,358588E+21	1,358602E+21	9,945345E+20	3,718691E+20	7,903871E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904674E+18
-1626	3,718783E+20	9,945579E+20	1,358612E+21	1,358581E+21	9,944827E+20	3,718023E+20	7,898809E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899348E+18
-1625	3,718623E+20	9,945073E+20	1,358567E+21	1,358591E+21	9,945486E+20	3,718887E+20	7,900206E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899762E+18
-1624	3,718084E+20	9,945110E+20	1,358620E+21	1,358623E+21	9,945335E+20	3,718415E+20	7,903404E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904585E+18
-1623	3,718923E+20	9,945377E+20	1,358575E+21	1,358552E+21	9,944806E+20	3,718185E+20	7,897712E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898836E+18
-1622	3,718271E+20	9,944527E+20	1,358521E+21	1,358552E+21	9,945153E+20	3,718806E+20	7,903266E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902098E+18
-1621	3,718148E+20	9,944810E+20	1,358531E+21	1,358508E+21	9,944333E+20	3,717879E+20	7,901717E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903084E+18
-1620	3,718586E+20	9,944531E+20	1,358448E+21	1,358422E+21	9,944055E+20	3,718168E+20	7,899556E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899519E+18
-1619	3,717596E+20	9,943459E+20	1,358415E+21	1,358440E+21	9,944180E+20	3,718350E+20	7,906058E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904345E+18
-1618	3,718039E+20	9,943804E+20	1,358379E+21	1,358355E+21	9,943146E+20	3,717354E+20	7,899726E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903685E+18
-1617	3,718095E+20	9,943146E+20	1,358278E+21	1,358291E+21	9,943291E+20	3,718034E+20	7,901844E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,900812E+18
-1616	3,717321E+20	9,942819E+20	1,358308E+21	1,358317E+21	9,943198E+20	3,717776E+20	7,904701E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906315E+18
-1615	3,718135E+20	9,943404E+20	1,358300E+21	1,358264E+21	9,942575E+20	3,717322E+20	7,900180E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901400E+18
-1614	3,717688E+20	9,942738E+20	1,358268E+21	1,358297E+21	9,943324E+20	3,718171E+20	7,904309E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901039E+18
-1613	3,717398E+20	9,943148E+20	1,358337E+21	1,358331E+21	9,943130E+20	3,717553E+20	7,903532E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905953E+18
-1612	3,718251E+20	9,943566E+20	1,358332E+21	1,358312E+21	9,943201E+20	3,717756E+20	7,900557E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899379E+18
-1611	3,717605E+20	9,943074E+20	1,358359E+21	1,358404E+21	9,944052E+20	3,718365E+20	7,904137E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904054E+18
-1610	3,718061E+20	9,944152E+20	1,358425E+21	1,358408E+21	9,943633E+20	3,717566E+20	7,901052E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903542E+18
-1609	3,718499E+20	9,944267E+20	1,358422E+21	1,358411E+21	9,944116E+20	3,718276E+20	7,899448E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898489E+18
-1608	3,717717E+20	9,943992E+20	1,358490E+21	1,358507E+21	9,944621E+20	3,718439E+20	7,904672E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905176E+18
-1607	3,718483E+20	9,944749E+20	1,358512E+21	1,358490E+21	9,944154E+20	3,717798E+20	7,899912E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899930E+18
-1606	3,718336E+20	9,944224E+20	1,358455E+21	1,358488E+21	9,944760E+20	3,718621E+20	7,900800E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,900490E+18
-1605	3,717808E+20	9,944242E+20	1,358489E+21	1,358491E+21	9,944435E+20	3,718126E+20	7,904206E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904931E+18
-1604	3,718629E+20	9,944629E+20	1,358462E+21	1,358420E+21	9,943839E+20	3,717863E+20	7,898375E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899531E+18
-1603	3,717934E+20	9,943628E+20	1,358408E+21	1,358436E+21	9,944250E+20	3,718483E+20	7,904213E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902698E+18
-1602	3,717814E+20	9,943917E+20	1,358410E+21	1,358388E+21	9,943412E+20	3,717528E+20	7,902346E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904263E+18
-1601	3,718254E+20	9,943571E+20	1,358323E+21	1,358298E+21	9,943104E+20	3,717770E+20	7,899565E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,900675E+18
-1600	3,717296E+20	9,942455E+20	1,358278E+21	1,358311E+21	9,943293E+20	3,718026E+20	7,906328E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905320E+18
-1599	3,717760E+20	9,942918E+20	1,358258E+21	1,358237E+21	9,942289E+20	3,717075E+20	7,900733E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904204E+18
-1598	3,717799E+20	9,942337E+20	1,358165E+21	1,358176E+21	9,942465E+20	3,717767E+20	7,902857E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,900729E+18
-1597	3,716978E+20	9,941992E+20	1,358193E+21	1,358196E+21	9,942312E+20	3,717526E+20	7,906107E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906247E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-1596	3,717772E+20	9,942609E+20	1,358199E+21	1,358156E+21	9,941757E+20	3,717054E+20	7,901378E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901972E+18
-1595	3,717361E+20	9,941828E+20	1,358158E+21	1,358201E+21	9,942631E+20	3,717902E+20	7,904880E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902130E+18
-1594	3,717189E+20	9,942420E+20	1,358227E+21	1,358223E+21	9,942362E+20	3,717255E+20	7,903686E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907290E+18
-1593	3,718073E+20	9,942921E+20	1,358234E+21	1,358208E+21	9,942393E+20	3,717413E+20	7,900111E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,900067E+18
-1592	3,717410E+20	9,942440E+20	1,358265E+21	1,358307E+21	9,943353E+20	3,718125E+20	7,904459E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904320E+18
-1591	3,717789E+20	9,943500E+20	1,358348E+21	1,358331E+21	9,942995E+20	3,717371E+20	7,902339E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903410E+18
-1590	3,718173E+20	9,943513E+20	1,358333E+21	1,358332E+21	9,943516E+20	3,718057E+20	7,900238E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,898738E+18
-1589	3,717396E+20	9,943127E+20	1,358372E+21	1,358397E+21	9,943878E+20	3,718208E+20	7,905658E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905667E+18
-1588	3,718199E+20	9,943963E+20	1,358399E+21	1,358372E+21	9,943323E+20	3,717512E+20	7,900295E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901070E+18
-1587	3,718100E+20	9,943405E+20	1,358338E+21	1,358373E+21	9,943922E+20	3,718301E+20	7,901186E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901551E+18
-1586	3,717602E+20	9,943558E+20	1,358375E+21	1,358365E+21	9,943486E+20	3,717785E+20	7,904691E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905757E+18
-1585	3,718340E+20	9,943876E+20	1,358360E+21	1,358306E+21	9,942862E+20	3,717474E+20	7,898646E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,900245E+18
-1584	3,717587E+20	9,942682E+20	1,358288E+21	1,358324E+21	9,943409E+20	3,718179E+20	7,905173E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903304E+18
-1583	3,717432E+20	9,942889E+20	1,358286E+21	1,358278E+21	9,942612E+20	3,717265E+20	7,903628E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905002E+18
-1582	3,717901E+20	9,942561E+20	1,358190E+21	1,358175E+21	9,942250E+20	3,717475E+20	7,900460E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901210E+18
-1581	3,716962E+20	9,941467E+20	1,358128E+21	1,358162E+21	9,942291E+20	3,717734E+20	7,907467E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905384E+18
-1580	3,717401E+20	9,942074E+20	1,358134E+21	1,358100E+21	9,941297E+20	3,716769E+20	7,901833E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904619E+18
-1579	3,717439E+20	9,941439E+20	1,358051E+21	1,358062E+21	9,941573E+20	3,717440E+20	7,903839E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901247E+18
-1578	3,716675E+20	9,941172E+20	1,358079E+21	1,358084E+21	9,941452E+20	3,717191E+20	7,906556E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907421E+18
-1577	3,717500E+20	9,941819E+20	1,358096E+21	1,358055E+21	9,940951E+20	3,716687E+20	7,901133E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903176E+18
-1576	3,717156E+20	9,941073E+20	1,358052E+21	1,358104E+21	9,941940E+20	3,717626E+20	7,904764E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903095E+18
-1575	3,716986E+20	9,941769E+20	1,358138E+21	1,358137E+21	9,941738E+20	3,717054E+20	7,904449E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907673E+18
-1574	3,717836E+20	9,942319E+20	1,358150E+21	1,358122E+21	9,941772E+20	3,717210E+20	7,900799E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899931E+18
-1573	3,717112E+20	9,941728E+20	1,358164E+21	1,358205E+21	9,942623E+20	3,717927E+20	7,905711E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904237E+18
-1572	3,717447E+20	9,942735E+20	1,358249E+21	1,358233E+21	9,942294E+20	3,717139E+20	7,903339E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904082E+18
-1571	3,717875E+20	9,942645E+20	1,358221E+21	1,358232E+21	9,942802E+20	3,717778E+20	7,900782E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,899983E+18
-1570	3,717211E+20	9,942415E+20	1,358255E+21	1,358277E+21	9,943003E+20	3,717876E+20	7,905882E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906879E+18
-1569	3,718002E+20	9,943311E+20	1,358296E+21	1,358257E+21	9,942398E+20	3,717135E+20	7,900097E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901856E+18
-1568	3,717858E+20	9,942710E+20	1,358236E+21	1,358266E+21	9,943097E+20	3,718006E+20	7,901830E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901864E+18
-1567	3,717257E+20	9,942762E+20	1,358282E+21	1,358274E+21	9,942739E+20	3,717544E+20	7,906076E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905864E+18
-1566	3,717939E+20	9,942925E+20	1,358246E+21	1,358207E+21	9,942145E+20	3,717207E+20	7,899629E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,900700E+18
-1565	3,717188E+20	9,941612E+20	1,358141E+21	1,358190E+21	9,942528E+20	3,717908E+20	7,906404E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903829E+18
-1564	3,717064E+20	9,941872E+20	1,358143E+21	1,358136E+21	9,941651E+20	3,716943E+20	7,904356E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906024E+18
-1563	3,717572E+20	9,941552E+20	1,358046E+21	1,358036E+21	9,941265E+20	3,717121E+20	7,901272E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902156E+18
-1562	3,716706E+20	9,940671E+20	1,357999E+21	1,358018E+21	9,941194E+20	3,717343E+20	7,907943E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906279E+18
-1561	3,717096E+20	9,941283E+20	1,358026E+21	1,357979E+21	9,940267E+20	3,716353E+20	7,902051E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905585E+18



1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-1560	3,717144E+20	9,940590E+20	1,357940E+21	1,357958E+21	9,940785E+20	3,717115E+20	7,904253E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902228E+18
-1559	3,716400E+20	9,940364E+20	1,357979E+21	1,357991E+21	9,940773E+20	3,716944E+20	7,907246E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908378E+18
-1558	3,717256E+20	9,941067E+20	1,357992E+21	1,357961E+21	9,940308E+20	3,716442E+20	7,901626E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903472E+18
-1557	3,716895E+20	9,940348E+20	1,357940E+21	1,357991E+21	9,941198E+20	3,717418E+20	7,905668E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902926E+18
-1556	3,716670E+20	9,941083E+20	1,358044E+21	1,358035E+21	9,941021E+20	3,716849E+20	7,905604E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907596E+18
-1555	3,717481E+20	9,941516E+20	1,358055E+21	1,358034E+21	9,941102E+20	3,716976E+20	7,901791E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,900366E+18
-1554	3,716850E+20	9,940997E+20	1,358058E+21	1,358100E+21	9,941855E+20	3,717636E+20	7,906109E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905364E+18
-1553	3,717209E+20	9,942010E+20	1,358149E+21	1,358131E+21	9,941495E+20	3,716794E+20	7,903117E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905360E+18
-1552	3,717700E+20	9,941953E+20	1,358117E+21	1,358131E+21	9,942068E+20	3,717473E+20	7,900748E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901054E+18
-1551	3,717011E+20	9,941784E+20	1,358167E+21	1,358183E+21	9,942295E+20	3,717629E+20	7,906660E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907232E+18
-1550	3,717730E+20	9,942645E+20	1,358206E+21	1,358164E+21	9,941686E+20	3,716885E+20	7,900953E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901803E+18
-1549	3,717482E+20	9,941839E+20	1,358120E+21	1,358151E+21	9,942266E+20	3,717766E+20	7,903452E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901848E+18
-1548	3,716825E+20	9,941742E+20	1,358155E+21	1,358156E+21	9,941939E+20	3,717281E+20	7,907318E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906559E+18
-1547	3,717541E+20	9,941815E+20	1,358101E+21	1,358076E+21	9,941262E+20	3,716881E+20	7,900430E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902232E+18
-1546	3,716935E+20	9,940670E+20	1,357988E+21	1,358032E+21	9,941423E+20	3,717504E+20	7,906724E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905120E+18
-1545	3,716801E+20	9,941020E+20	1,358012E+21	1,357992E+21	9,940526E+20	3,716495E+20	7,904148E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907082E+18
-1544	3,717296E+20	9,940740E+20	1,357928E+21	1,357910E+21	9,940275E+20	3,716741E+20	7,901830E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902695E+18
-1543	3,716369E+20	9,939859E+20	1,357903E+21	1,357918E+21	9,940363E+20	3,717036E+20	7,908846E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906686E+18
-1542	3,716750E+20	9,940427E+20	1,357922E+21	1,357885E+21	9,939576E+20	3,716084E+20	7,902802E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906045E+18
-1541	3,716801E+20	9,939685E+20	1,357817E+21	1,357843E+21	9,940033E+20	3,716880E+20	7,905228E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902680E+18
-1540	3,716101E+20	9,939533E+20	1,357864E+21	1,357882E+21	9,940067E+20	3,716716E+20	7,907964E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908970E+18
-1539	3,716966E+20	9,940258E+20	1,357880E+21	1,357855E+21	9,939603E+20	3,716206E+20	7,902504E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904039E+18
-1538	3,716669E+20	9,939699E+20	1,357836E+21	1,357873E+21	9,940338E+20	3,717130E+20	7,906195E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903482E+18
-1537	3,716387E+20	9,940363E+20	1,357953E+21	1,357938E+21	9,940199E+20	3,716514E+20	7,905848E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908368E+18
-1536	3,717221E+20	9,940746E+20	1,357956E+21	1,357943E+21	9,940427E+20	3,716693E+20	7,902062E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901422E+18
-1535	3,716640E+20	9,940317E+20	1,357970E+21	1,358011E+21	9,941191E+20	3,717384E+20	7,906498E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906440E+18
-1534	3,717027E+20	9,941370E+20	1,358055E+21	1,358037E+21	9,940838E+20	3,716552E+20	7,903529E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905601E+18
-1533	3,717450E+20	9,941287E+20	1,358014E+21	1,358020E+21	9,941305E+20	3,717247E+20	7,901751E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901016E+18
-1532	3,716687E+20	9,941055E+20	1,358068E+21	1,358080E+21	9,941556E+20	3,717398E+20	7,907898E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907079E+18
-1531	3,717313E+20	9,941693E+20	1,358093E+21	1,358063E+21	9,940960E+20	3,716621E+20	7,902073E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902555E+18
-1530	3,717151E+20	9,940902E+20	1,357989E+21	1,358021E+21	9,941347E+20	3,717421E+20	7,903981E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903186E+18
-1529	3,716523E+20	9,940763E+20	1,358022E+21	1,358023E+21	9,940934E+20	3,716869E+20	7,907090E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908041E+18
-1528	3,717290E+20	9,940900E+20	1,357966E+21	1,357941E+21	9,940303E+20	3,716503E+20	7,900513E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903580E+18
-1527	3,716694E+20	9,939901E+20	1,357875E+21	1,357904E+21	9,940456E+20	3,717159E+20	7,907378E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905644E+18
-1526	3,716501E+20	9,940237E+20	1,357904E+21	1,357875E+21	9,939619E+20	3,716179E+20	7,904958E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907074E+18
-1525	3,716890E+20	9,939809E+20	1,357808E+21	1,357790E+21	9,939381E+20	3,716455E+20	7,903441E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902772E+18

1 Longitude $\ominus$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-1524	3,715960E+20	9,938860E+20	1,357778E+21	1,357806E+21	9,939604E+20	3,716772E+20	7,909983E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907205E+18
-1523	3,716372E+20	9,939399E+20	1,357790E+21	1,357769E+21	9,938831E+20	3,715827E+20	7,903848E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907228E+18
-1522	3,716559E+20	9,938859E+20	1,357689E+21	1,357709E+21	9,939109E+20	3,716560E+20	7,905646E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903594E+18
-1521	3,715854E+20	9,938779E+20	1,357757E+21	1,357764E+21	9,939154E+20	3,716370E+20	7,907933E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909628E+18
-1520	3,716697E+20	9,939532E+20	1,357783E+21	1,357754E+21	9,938833E+20	3,715912E+20	7,902948E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904539E+18
-1519	3,716393E+20	9,939010E+20	1,357755E+21	1,357788E+21	9,939654E+20	3,716869E+20	7,906657E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904126E+18
-1518	3,716142E+20	9,939655E+20	1,357863E+21	1,357854E+21	9,939608E+20	3,716278E+20	7,906245E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908830E+18
-1517	3,716970E+20	9,940005E+20	1,357852E+21	1,357840E+21	9,939736E+20	3,716472E+20	7,902843E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901914E+18
-1516	3,716416E+20	9,939626E+20	1,357871E+21	1,357914E+21	9,940545E+20	3,717164E+20	7,907174E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906798E+18
-1515	3,716760E+20	9,940667E+20	1,357957E+21	1,357938E+21	9,940163E+20	3,716336E+20	7,904530E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906073E+18
-1514	3,717200E+20	9,940615E+20	1,357914E+21	1,357903E+21	9,940421E+20	3,716946E+20	7,902397E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,901667E+18
-1513	3,716369E+20	9,940208E+20	1,357965E+21	1,357975E+21	9,940692E+20	3,717043E+20	7,908123E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907951E+18
-1512	3,716995E+20	9,940751E+20	1,357971E+21	1,357950E+21	9,940162E+20	3,716293E+20	7,902332E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903986E+18
-1511	3,716887E+20	9,940037E+20	1,357873E+21	1,357898E+21	9,940460E+20	3,717092E+20	7,904450E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904352E+18
-1510	3,716286E+20	9,939925E+20	1,357899E+21	1,357896E+21	9,940036E+20	3,716549E+20	7,907536E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908218E+18
-1509	3,716949E+20	9,940024E+20	1,357838E+21	1,357804E+21	9,939313E+20	3,716207E+20	7,901890E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903545E+18
-1508	3,716301E+20	9,938988E+20	1,357757E+21	1,357784E+21	9,939567E+20	3,716860E+20	7,908725E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905448E+18
-1507	3,716050E+20	9,939191E+20	1,357779E+21	1,357761E+21	9,938811E+20	3,715901E+20	7,906225E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907959E+18
-1506	3,716544E+20	9,938831E+20	1,357675E+21	1,357656E+21	9,938435E+20	3,716105E+20	7,904092E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904098E+18
-1505	3,715673E+20	9,937913E+20	1,357652E+21	1,357681E+21	9,938662E+20	3,716382E+20	7,909679E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908600E+18
-1504	3,716136E+20	9,938548E+20	1,357667E+21	1,357650E+21	9,938003E+20	3,715500E+20	7,903965E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908506E+18
-1503	3,716346E+20	9,938198E+20	1,357594E+21	1,357598E+21	9,938274E+20	3,716269E+20	7,906075E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904186E+18
-1502	3,715616E+20	9,938089E+20	1,357665E+21	1,357666E+21	9,938400E+20	3,716111E+20	7,908562E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909445E+18
-1501	3,716343E+20	9,938709E+20	1,357680E+21	1,357654E+21	9,938113E+20	3,715692E+20	7,904252E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904712E+18
-1500	3,716096E+20	9,938207E+20	1,357651E+21	1,357694E+21	9,939021E+20	3,716641E+20	7,907424E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904656E+18
-1499	3,715872E+20	9,938857E+20	1,357754E+21	1,357754E+21	9,938961E+20	3,716075E+20	7,907194E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909749E+18
-1498	3,716794E+20	9,939377E+20	1,357749E+21	1,357725E+21	9,938902E+20	3,716180E+20	7,903190E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902626E+18
-1497	3,716202E+20	9,939007E+20	1,357784E+21	1,357813E+21	9,939703E+20	3,716840E+20	7,907235E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907188E+18
-1496	3,716473E+20	9,939949E+20	1,357867E+21	1,357847E+21	9,939449E+20	3,716063E+20	7,905076E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906535E+18
-1495	3,716886E+20	9,939864E+20	1,357826E+21	1,357812E+21	9,939700E+20	3,716670E+20	7,902879E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,902554E+18
-1494	3,716090E+20	9,939334E+20	1,357853E+21	1,357872E+21	9,939972E+20	3,716772E+20	7,908578E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908296E+18
-1493	3,716653E+20	9,939789E+20	1,357841E+21	1,357824E+21	9,939311E+20	3,716027E+20	7,903265E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904708E+18
-1492	3,716593E+20	9,939130E+20	1,357742E+21	1,357772E+21	9,939590E+20	3,716794E+20	7,905448E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904620E+18
-1491	3,715939E+20	9,939016E+20	1,357771E+21	1,357765E+21	9,939117E+20	3,716271E+20	7,908851E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908703E+18
-1490	3,716607E+20	9,939134E+20	1,357713E+21	1,357664E+21	9,938221E+20	3,715830E+20	7,902909E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904324E+18
-1489	3,715932E+20	9,937998E+20	1,357634E+21	1,357661E+21	9,938556E+20	3,716441E+20	7,908934E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906578E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-1488	3,715724E+20	9,938183E+20	1,357646E+21	1,357637E+21	9,937942E+20	3,715550E+20	7,906439E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909742E+18
-1487	3,716298E+20	9,937982E+20	1,357557E+21	1,357532E+21	9,937534E+20	3,715766E+20	7,904411E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905457E+18
-1486	3,715476E+20	9,937139E+20	1,357536E+21	1,357564E+21	9,937828E+20	3,716080E+20	7,909895E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908619E+18
-1485	3,715802E+20	9,937743E+20	1,357554E+21	1,357530E+21	9,937145E+20	3,715257E+20	7,905307E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908345E+18
-1484	3,715981E+20	9,937354E+20	1,357490E+21	1,357500E+21	9,937543E+20	3,716029E+20	7,907338E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903799E+18
-1483	3,715231E+20	9,937199E+20	1,357556E+21	1,357570E+21	9,937741E+20	3,715909E+20	7,909760E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910114E+18
-1482	3,716068E+20	9,937916E+20	1,357568E+21	1,357541E+21	9,937300E+20	3,715407E+20	7,904826E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905770E+18
-1481	3,715898E+20	9,937502E+20	1,357552E+21	1,357593E+21	9,938223E+20	3,716304E+20	7,906976E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905899E+18
-1480	3,715718E+20	9,938247E+20	1,357659E+21	1,357658E+21	9,938270E+20	3,715807E+20	7,907333E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910724E+18
-1479	3,716614E+20	9,938885E+20	1,357678E+21	1,357636E+21	9,938171E+20	3,715916E+20	7,903532E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903189E+18
-1478	3,715975E+20	9,938374E+20	1,357703E+21	1,357731E+21	9,939030E+20	3,716589E+20	7,907840E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906844E+18
-1477	3,716079E+20	9,939056E+20	1,357760E+21	1,357750E+21	9,938759E+20	3,715847E+20	7,906352E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906838E+18
-1476	3,716540E+20	9,938909E+20	1,357704E+21	1,357707E+21	9,938997E+20	3,716427E+20	7,903854E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903208E+18
-1475	3,715779E+20	9,938384E+20	1,357718E+21	1,357746E+21	9,939157E+20	3,716530E+20	7,909729E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909219E+18
-1474	3,716394E+20	9,938949E+20	1,357707E+21	1,357678E+21	9,938249E+20	3,715672E+20	7,903889E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905607E+18
-1473	3,716308E+20	9,938311E+20	1,357625E+21	1,357640E+21	9,938498E+20	3,716365E+20	7,905584E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905339E+18
-1472	3,715606E+20	9,938121E+20	1,357652E+21	1,357646E+21	9,938176E+20	3,715898E+20	7,909253E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909698E+18
-1471	3,716277E+20	9,938277E+20	1,357604E+21	1,357551E+21	9,937318E+20	3,715462E+20	7,903314E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905728E+18
-1470	3,715660E+20	9,937088E+20	1,357512E+21	1,357544E+21	9,937709E+20	3,716111E+20	7,909263E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907000E+18
-1469	3,715368E+20	9,937202E+20	1,357513E+21	1,357510E+21	9,937084E+20	3,715291E+20	7,907489E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910469E+18
-1468	3,715989E+20	9,937084E+20	1,357430E+21	1,357413E+21	9,936724E+20	3,715508E+20	7,905660E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905480E+18
-1467	3,715129E+20	9,936258E+20	1,357413E+21	1,357442E+21	9,936999E+20	3,715861E+20	7,911359E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908751E+18
-1466	3,715436E+20	9,936866E+20	1,357437E+21	1,357407E+21	9,936193E+20	3,714942E+20	7,906417E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908852E+18
-1465	3,715645E+20	9,936470E+20	1,357379E+21	1,357392E+21	9,936657E+20	3,715658E+20	7,907393E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904786E+18
-1464	3,714981E+20	9,936387E+20	1,357443E+21	1,357464E+21	9,936987E+20	3,715610E+20	7,909893E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911628E+18
-1463	3,715904E+20	9,937332E+20	1,357479E+21	1,357442E+21	9,936539E+20	3,715114E+20	7,905000E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906909E+18
-1462	3,715768E+20	9,936979E+20	1,357468E+21	1,357503E+21	9,937536E+20	3,716039E+20	7,907071E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905724E+18
-1461	3,715418E+20	9,937596E+20	1,357573E+21	1,357568E+21	9,937608E+20	3,715621E+20	7,908568E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910520E+18
-1460	3,716269E+20	9,938106E+20	1,357587E+21	1,357559E+21	9,937594E+20	3,715711E+20	7,904628E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,903076E+18
-1459	3,715610E+20	9,937486E+20	1,357591E+21	1,357636E+21	9,938421E+20	3,716404E+20	7,909037E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907550E+18
-1458	3,715766E+20	9,938147E+20	1,357634E+21	1,357627E+21	9,937887E+20	3,715542E+20	7,906898E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908026E+18
-1457	3,716296E+20	9,938063E+20	1,357581E+21	1,357583E+21	9,938031E+20	3,716034E+20	7,903581E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904641E+18
-1456	3,715578E+20	9,937634E+20	1,357596E+21	1,357618E+21	9,938221E+20	3,716182E+20	7,909995E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910352E+18
-1455	3,716161E+20	9,938303E+20	1,357607E+21	1,357556E+21	9,937262E+20	3,715318E+20	7,904380E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906534E+18
-1454	3,716030E+20	9,937530E+20	1,357520E+21	1,357533E+21	9,937608E+20	3,716008E+20	7,906203E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905321E+18
-1453	3,715186E+20	9,937116E+20	1,357526E+21	1,357530E+21	9,937336E+20	3,715617E+20	7,910441E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910318E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-1452	3,715898E+20	9,937214E+20	1,357467E+21	1,357435E+21	9,936527E+20	3,715188E+20	7,904572E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906345E+18
-1451	3,715309E+20	9,936090E+20	1,357370E+21	1,357413E+21	9,936865E+20	3,715869E+20	7,910639E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907581E+18
-1450	3,715028E+20	9,936271E+20	1,357376E+21	1,357365E+21	9,936036E+20	3,714966E+20	7,908539E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910959E+18
-1449	3,715631E+20	9,936188E+20	1,357310E+21	1,357286E+21	9,935695E+20	3,715124E+20	7,906098E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905963E+18
-1448	3,714789E+20	9,935367E+20	1,357293E+21	1,357326E+21	9,936126E+20	3,715522E+20	7,911721E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909770E+18
-1447	3,715150E+20	9,936097E+20	1,357333E+21	1,357299E+21	9,935369E+20	3,714607E+20	7,906634E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910320E+18
-1446	3,715461E+20	9,935766E+20	1,357279E+21	1,357294E+21	9,935920E+20	3,715332E+20	7,907199E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905354E+18
-1445	3,714745E+20	9,935685E+20	1,357343E+21	1,357366E+21	9,936301E+20	3,715380E+20	7,910490E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912356E+18
-1444	3,715691E+20	9,936689E+20	1,357388E+21	1,357358E+21	9,935951E+20	3,714920E+20	7,906066E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906795E+18
-1443	3,715487E+20	9,936337E+20	1,357379E+21	1,357415E+21	9,936915E+20	3,715881E+20	7,908393E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905770E+18
-1442	3,715076E+20	9,936807E+20	1,357473E+21	1,357468E+21	9,936840E+20	3,715366E+20	7,909615E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910926E+18
-1441	3,715939E+20	9,937243E+20	1,357478E+21	1,357457E+21	9,936805E+20	3,715378E+20	7,904555E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904373E+18
-1440	3,715380E+20	9,936653E+20	1,357465E+21	1,357518E+21	9,937623E+20	3,716096E+20	7,909168E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909166E+18
-1439	3,715593E+20	9,937493E+20	1,357526E+21	1,357507E+21	9,936991E+20	3,715205E+20	7,907002E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909343E+18
-1438	3,716128E+20	9,937440E+20	1,357480E+21	1,357469E+21	9,937126E+20	3,715682E+20	7,903920E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904489E+18
-1437	3,715212E+20	9,936835E+20	1,357491E+21	1,357506E+21	9,937352E+20	3,715909E+20	7,911329E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910183E+18
-1436	3,715747E+20	9,937361E+20	1,357495E+21	1,357460E+21	9,936521E+20	3,715055E+20	7,905787E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906565E+18
-1435	3,715600E+20	9,936507E+20	1,357389E+21	1,357416E+21	9,936842E+20	3,715773E+20	7,907748E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905981E+18
-1434	3,714798E+20	9,936037E+20	1,357381E+21	1,357391E+21	9,936370E+20	3,715291E+20	7,911268E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911403E+18
-1433	3,715572E+20	9,936216E+20	1,357326E+21	1,357297E+21	9,935509E+20	3,714790E+20	7,904706E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907731E+18
-1432	3,715038E+20	9,935201E+20	1,357231E+21	1,357271E+21	9,935872E+20	3,715513E+20	7,911116E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908630E+18
-1431	3,714741E+20	9,935494E+20	1,357264E+21	1,357237E+21	9,935009E+20	3,714588E+20	7,908988E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911991E+18
-1430	3,715338E+20	9,935353E+20	1,357200E+21	1,357175E+21	9,934789E+20	3,714739E+20	7,906446E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906163E+18
-1429	3,714431E+20	9,934451E+20	1,357175E+21	1,357215E+21	9,935332E+20	3,715237E+20	7,912366E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910717E+18
-1428	3,714885E+20	9,935252E+20	1,357219E+21	1,357200E+21	9,934703E+20	3,714375E+20	7,907618E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910925E+18
-1427	3,715230E+20	9,935081E+20	1,357174E+21	1,357192E+21	9,935260E+20	3,715142E+20	7,908230E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905792E+18
-1426	3,714493E+20	9,935023E+20	1,357245E+21	1,357258E+21	9,935506E+20	3,715132E+20	7,911362E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912554E+18
-1425	3,715386E+20	9,935985E+20	1,357300E+21	1,357267E+21	9,935202E+20	3,714621E+20	7,906379E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907139E+18
-1424	3,715189E+20	9,935585E+20	1,357281E+21	1,357322E+21	9,936245E+20	3,715613E+20	7,908661E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906784E+18
-1423	3,714821E+20	9,936084E+20	1,357374E+21	1,357368E+21	9,936107E+20	3,715076E+20	7,909806E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912168E+18
-1422	3,715739E+20	9,936527E+20	1,357375E+21	1,357355E+21	9,936060E+20	3,715062E+20	7,904442E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904946E+18
-1421	3,715139E+20	9,935925E+20	1,357357E+21	1,357406E+21	9,936842E+20	3,715837E+20	7,909858E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909796E+18
-1420	3,715340E+20	9,936753E+20	1,357421E+21	1,357404E+21	9,936255E+20	3,714981E+20	7,908321E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909210E+18
-1419	3,715783E+20	9,936668E+20	1,357377E+21	1,357363E+21	9,936343E+20	3,715450E+20	7,905537E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,904590E+18
-1418	3,714798E+20	9,935859E+20	1,357370E+21	1,357386E+21	9,936432E+20	3,715582E+20	7,912469E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910644E+18
-1417	3,715347E+20	9,936305E+20	1,357361E+21	1,357334E+21	9,935601E+20	3,714677E+20	7,905999E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908082E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-1416	3,715298E+20	9,935509E+20	1,357243E+21	1,357275E+21	9,935888E+20	3,715415E+20	7,908158E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907716E+18
-1415	3,714563E+20	9,935193E+20	1,357250E+21	1,357249E+21	9,935331E+20	3,714905E+20	7,911408E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912772E+18
-1414	3,715322E+20	9,935412E+20	1,357205E+21	1,357165E+21	9,934502E+20	3,714396E+20	7,905018E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907960E+18
-1413	3,714659E+20	9,934292E+20	1,357111E+21	1,357146E+21	9,934930E+20	3,715189E+20	7,912033E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908911E+18
-1412	3,714364E+20	9,934508E+20	1,357144E+21	1,357132E+21	9,934243E+20	3,714313E+20	7,910126E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912268E+18
-1411	3,714977E+20	9,934439E+20	1,357080E+21	1,357063E+21	9,934041E+20	3,714498E+20	7,907663E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906821E+18
-1410	3,714127E+20	9,933571E+20	1,357055E+21	1,357095E+21	9,934468E+20	3,714936E+20	7,912906E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911593E+18
-1409	3,714645E+20	9,934509E+20	1,357111E+21	1,357090E+21	9,933906E+20	3,714072E+20	7,907863E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911866E+18
-1408	3,715018E+20	9,934439E+20	1,357075E+21	1,357084E+21	9,934510E+20	3,714885E+20	7,908725E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906528E+18
-1407	3,714261E+20	9,934427E+20	1,357164E+21	1,357165E+21	9,934743E+20	3,714850E+20	7,911801E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913172E+18
-1406	3,715112E+20	9,935261E+20	1,357211E+21	1,357181E+21	9,934517E+20	3,714316E+20	7,906627E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907209E+18
-1405	3,714858E+20	9,934736E+20	1,357173E+21	1,357221E+21	9,935572E+20	3,715380E+20	7,909231E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907633E+18
-1404	3,714573E+20	9,935246E+20	1,357264E+21	1,357271E+21	9,935467E+20	3,714871E+20	7,910847E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912500E+18
-1403	3,715489E+20	9,935823E+20	1,357269E+21	1,357245E+21	9,935330E+20	3,714860E+20	7,905672E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,905214E+18
-1402	3,714841E+20	9,935170E+20	1,357251E+21	1,357287E+21	9,935936E+20	3,715542E+20	7,910842E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909923E+18
-1401	3,714993E+20	9,935925E+20	1,357316E+21	1,357294E+21	9,935384E+20	3,714646E+20	7,908780E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909840E+18
-1400	3,715439E+20	9,935761E+20	1,357257E+21	1,357247E+21	9,935509E+20	3,715110E+20	7,905930E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906035E+18
-1399	3,714521E+20	9,934985E+20	1,357249E+21	1,357263E+21	9,935520E+20	3,715205E+20	7,912443E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912196E+18
-1398	3,715102E+20	9,935416E+20	1,357235E+21	1,357209E+21	9,934681E+20	3,714282E+20	7,905833E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909141E+18
-1397	3,715005E+20	9,934611E+20	1,357113E+21	1,357140E+21	9,934956E+20	3,715101E+20	7,908921E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908562E+18
-1396	3,714267E+20	9,934276E+20	1,357126E+21	1,357127E+21	9,934458E+20	3,714640E+20	7,912745E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912691E+18
-1395	3,714924E+20	9,934501E+20	1,357086E+21	1,357043E+21	9,933615E+20	3,714135E+20	7,906726E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908112E+18
-1394	3,714235E+20	9,933245E+20	1,356980E+21	1,357016E+21	9,933953E+20	3,714839E+20	7,912999E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909425E+18
-1393	3,714005E+20	9,933500E+20	1,357011E+21	1,357004E+21	9,933340E+20	3,713968E+20	7,910418E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913612E+18
-1392	3,714726E+20	9,933597E+20	1,356956E+21	1,356938E+21	9,933174E+20	3,714175E+20	7,908107E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908232E+18
-1391	3,713959E+20	9,932945E+20	1,356954E+21	1,356979E+21	9,933585E+20	3,714610E+20	7,913043E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912416E+18
-1390	3,714419E+20	9,933884E+20	1,357023E+21	1,356993E+21	9,933146E+20	3,713774E+20	7,908302E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911655E+18
-1389	3,714671E+20	9,933693E+20	1,356987E+21	1,356995E+21	9,933840E+20	3,714654E+20	7,909433E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906755E+18
-1388	3,713940E+20	9,933546E+20	1,357065E+21	1,357085E+21	9,934198E+20	3,714668E+20	7,912855E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913211E+18
-1387	3,714785E+20	9,934437E+20	1,357106E+21	1,357086E+21	9,933918E+20	3,714135E+20	7,907591E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907808E+18
-1386	3,714595E+20	9,933919E+20	1,357059E+21	1,357106E+21	9,934753E+20	3,715095E+20	7,909628E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908491E+18
-1385	3,714365E+20	9,934535E+20	1,357156E+21	1,357155E+21	9,934649E+20	3,714580E+20	7,911158E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913344E+18
-1384	3,715273E+20	9,935175E+20	1,357169E+21	1,357131E+21	9,934477E+20	3,714562E+20	7,906252E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906186E+18
-1383	3,714608E+20	9,934509E+20	1,357159E+21	1,357181E+21	9,935036E+20	3,715179E+20	7,911115E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910785E+18
-1382	3,714701E+20	9,935098E+20	1,357211E+21	1,357191E+21	9,934580E+20	3,714284E+20	7,908852E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910496E+18
-1381	3,715103E+20	9,934816E+20	1,357133E+21	1,357128E+21	9,934691E+20	3,714809E+20	7,906405E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907370E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-1380	3,714257E+20	9,934015E+20	1,357119E+21	1,357145E+21	9,934723E+20	3,714951E+20	7,913527E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912483E+18
-1379	3,714769E+20	9,934540E+20	1,357110E+21	1,357080E+21	9,933802E+20	3,714037E+20	7,907300E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909387E+18
-1378	3,714602E+20	9,933629E+20	1,356984E+21	1,357000E+21	9,933893E+20	3,714767E+20	7,910307E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908489E+18
-1377	3,713845E+20	9,933246E+20	1,356995E+21	1,356994E+21	9,933472E+20	3,714291E+20	7,913512E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913204E+18
-1376	3,714525E+20	9,933460E+20	1,356949E+21	1,356909E+21	9,932671E+20	3,713787E+20	7,907558E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909429E+18
-1375	3,713958E+20	9,932355E+20	1,356854E+21	1,356887E+21	9,932979E+20	3,714440E+20	7,912940E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910816E+18
-1374	3,713787E+20	9,932704E+20	1,356895E+21	1,356886E+21	9,932458E+20	3,713599E+20	7,910335E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914509E+18
-1373	3,714469E+20	9,932842E+20	1,356848E+21	1,356825E+21	9,932381E+20	3,713905E+20	7,908767E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908907E+18
-1372	3,713709E+20	9,932199E+20	1,356862E+21	1,356890E+21	9,932912E+20	3,714408E+20	7,914186E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912089E+18
-1371	3,714059E+20	9,933119E+20	1,356932E+21	1,356905E+21	9,932502E+20	3,713589E+20	7,909770E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911598E+18
-1370	3,714286E+20	9,932763E+20	1,356876E+21	1,356891E+21	9,933081E+20	3,714390E+20	7,910125E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907299E+18
-1369	3,713664E+20	9,932674E+20	1,356944E+21	1,356971E+21	9,933452E+20	3,714402E+20	7,913104E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914351E+18
-1368	3,714583E+20	9,933702E+20	1,356992E+21	1,356970E+21	9,933118E+20	3,713858E+20	7,907965E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909182E+18
-1367	3,714478E+20	9,933395E+20	1,356967E+21	1,356996E+21	9,933867E+20	3,714747E+20	7,909529E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909421E+18
-1366	3,714172E+20	9,933968E+20	1,357073E+21	1,357060E+21	9,933839E+20	3,714251E+20	7,911403E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913374E+18
-1365	3,714950E+20	9,934435E+20	1,357080E+21	1,357041E+21	9,933760E+20	3,714290E+20	7,906830E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,906806E+18
-1364	3,714296E+20	9,933624E+20	1,357057E+21	1,357094E+21	9,934401E+20	3,714959E+20	7,912186E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910885E+18
-1363	3,714343E+20	9,934201E+20	1,357096E+21	1,357085E+21	9,933877E+20	3,714074E+20	7,909996E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911058E+18
-1362	3,714754E+20	9,933826E+20	1,357000E+21	1,356996E+21	9,933759E+20	3,714506E+20	7,907297E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908144E+18
-1361	3,713960E+20	9,933073E+20	1,356979E+21	1,357004E+21	9,933771E+20	3,714650E+20	7,914387E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913004E+18
-1360	3,714414E+20	9,933612E+20	1,356980E+21	1,356941E+21	9,932773E+20	3,713703E+20	7,908394E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910408E+18
-1359	3,714281E+20	9,932720E+20	1,356859E+21	1,356866E+21	9,932782E+20	3,714324E+20	7,910774E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909348E+18
-1358	3,713503E+20	9,932259E+20	1,356863E+21	1,356866E+21	9,932480E+20	3,713871E+20	7,913562E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914108E+18
-1357	3,714192E+20	9,932496E+20	1,356818E+21	1,356781E+21	9,931753E+20	3,713439E+20	7,907995E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910894E+18
-1356	3,713729E+20	9,931493E+20	1,356735E+21	1,356774E+21	9,932171E+20	3,714168E+20	7,913783E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911098E+18
-1355	3,713497E+20	9,931976E+20	1,356791E+21	1,356778E+21	9,931706E+20	3,713394E+20	7,911649E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914637E+18
-1354	3,714100E+20	9,931992E+20	1,356743E+21	1,356717E+21	9,931539E+20	3,713636E+20	7,909908E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908847E+18
-1353	3,713357E+20	9,931311E+20	1,356749E+21	1,356785E+21	9,932184E+20	3,714149E+20	7,914746E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912461E+18
-1352	3,713711E+20	9,932226E+20	1,356816E+21	1,356798E+21	9,931764E+20	3,713323E+20	7,910382E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912866E+18
-1351	3,714085E+20	9,932035E+20	1,356769E+21	1,356780E+21	9,932224E+20	3,714034E+20	7,909785E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908627E+18
-1350	3,713521E+20	9,932056E+20	1,356844E+21	1,356867E+21	9,932658E+20	3,714078E+20	7,912956E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915128E+18
-1349	3,714392E+20	9,933129E+20	1,356902E+21	1,356870E+21	9,932388E+20	3,713617E+20	7,908544E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909862E+18
-1348	3,714270E+20	9,932789E+20	1,356890E+21	1,356917E+21	9,933211E+20	3,714541E+20	7,910701E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909124E+18
-1347	3,713827E+20	9,933246E+20	1,356988E+21	1,356979E+21	9,933216E+20	3,714061E+20	7,912851E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913266E+18
-1346	3,714537E+20	9,933453E+20	1,356964E+21	1,356937E+21	9,932990E+20	3,714019E+20	7,907708E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,907463E+18
-1345	3,713981E+20	9,932658E+20	1,356921E+21	1,356968E+21	9,933590E+20	3,714686E+20	7,912895E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911716E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-1344	3,714031E+20	9,933271E+20	1,356959E+21	1,356948E+21	9,932941E+20	3,713778E+20	7,910931E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912250E+18
-1343	3,714499E+20	9,933016E+20	1,356875E+21	1,356858E+21	9,932672E+20	3,714105E+20	7,907750E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909017E+18
-1342	3,713656E+20	9,932220E+20	1,356857E+21	1,356874E+21	9,932721E+20	3,714240E+20	7,914784E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913340E+18
-1341	3,714017E+20	9,932620E+20	1,356851E+21	1,356816E+21	9,931824E+20	3,713343E+20	7,908942E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911546E+18
-1340	3,713950E+20	9,931721E+20	1,356734E+21	1,356752E+21	9,931928E+20	3,713994E+20	7,911518E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909891E+18
-1339	3,713175E+20	9,931356E+20	1,356741E+21	1,356748E+21	9,931636E+20	3,713585E+20	7,914332E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914859E+18
-1338	3,713858E+20	9,931554E+20	1,356688E+21	1,356655E+21	9,930832E+20	3,713129E+20	7,908918E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911579E+18
-1337	3,713453E+20	9,930680E+20	1,356612E+21	1,356648E+21	9,931328E+20	3,713907E+20	7,914687E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911337E+18
-1336	3,713142E+20	9,931141E+20	1,356681E+21	1,356663E+21	9,930856E+20	3,713136E+20	7,912906E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915427E+18
-1335	3,713792E+20	9,931160E+20	1,356634E+21	1,356609E+21	9,930662E+20	3,713277E+20	7,910229E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909684E+18
-1334	3,713087E+20	9,930472E+20	1,356631E+21	1,356677E+21	9,931382E+20	3,713804E+20	7,914560E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913439E+18
-1333	3,713461E+20	9,931437E+20	1,356704E+21	1,356690E+21	9,931016E+20	3,713045E+20	7,910630E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914160E+18
-1332	3,713929E+20	9,931407E+20	1,356677E+21	1,356688E+21	9,931526E+20	3,713797E+20	7,910467E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908744E+18
-1331	3,713291E+20	9,931533E+20	1,356767E+21	1,356780E+21	9,931995E+20	3,713896E+20	7,914225E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914883E+18
-1330	3,714040E+20	9,932398E+20	1,356814E+21	1,356781E+21	9,931668E+20	3,713387E+20	7,909772E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909737E+18
-1329	3,713934E+20	9,931970E+20	1,356783E+21	1,356821E+21	9,932569E+20	3,714316E+20	7,911530E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909426E+18
-1328	3,713464E+20	9,932337E+20	1,356871E+21	1,356873E+21	9,932497E+20	3,713813E+20	7,913660E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914535E+18
-1327	3,714296E+20	9,932619E+20	1,356842E+21	1,356816E+21	9,932069E+20	3,713635E+20	7,907532E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908997E+18
-1326	3,713776E+20	9,931863E+20	1,356793E+21	1,356840E+21	9,932645E+20	3,714310E+20	7,912934E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912642E+18
-1325	3,713753E+20	9,932466E+20	1,356839E+21	1,356821E+21	9,932001E+20	3,713451E+20	7,911435E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913280E+18
-1324	3,714206E+20	9,932181E+20	1,356766E+21	1,356745E+21	9,931743E+20	3,713780E+20	7,908923E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909134E+18
-1323	3,713268E+20	9,931311E+20	1,356740E+21	1,356759E+21	9,931845E+20	3,713936E+20	7,915946E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913577E+18
-1322	3,713583E+20	9,931520E+20	1,356710E+21	1,356683E+21	9,930871E+20	3,713007E+20	7,909853E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912488E+18
-1321	3,713633E+20	9,930735E+20	1,356588E+21	1,356612E+21	9,931010E+20	3,713677E+20	7,912325E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910651E+18
-1320	3,712853E+20	9,930451E+20	1,356609E+21	1,356613E+21	9,930695E+20	3,713288E+20	7,915342E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915946E+18
-1319	3,713583E+20	9,930752E+20	1,356572E+21	1,356529E+21	9,929827E+20	3,712752E+20	7,909552E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912231E+18
-1318	3,713132E+20	9,929853E+20	1,356500E+21	1,356536E+21	9,930431E+20	3,713551E+20	7,915045E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911637E+18
-1317	3,712761E+20	9,930211E+20	1,356566E+21	1,356556E+21	9,930090E+20	3,712845E+20	7,913397E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916438E+18
-1316	3,713496E+20	9,930290E+20	1,356526E+21	1,356511E+21	9,929954E+20	3,713012E+20	7,910841E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910154E+18
-1315	3,712838E+20	9,929751E+20	1,356528E+21	1,356576E+21	9,930683E+20	3,713571E+20	7,915108E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914021E+18
-1314	3,713195E+20	9,930679E+20	1,356595E+21	1,356583E+21	9,930267E+20	3,712811E+20	7,911567E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914628E+18
-1313	3,713719E+20	9,930802E+20	1,356581E+21	1,356585E+21	9,930828E+20	3,713581E+20	7,911375E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,908864E+18
-1312	3,712987E+20	9,930850E+20	1,356679E+21	1,356686E+21	9,931265E+20	3,713665E+20	7,915440E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915531E+18
-1311	3,713753E+20	9,931624E+20	1,356715E+21	1,356686E+21	9,930889E+20	3,713047E+20	7,910013E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910673E+18
-1310	3,713678E+20	9,931175E+20	1,356670E+21	1,356714E+21	9,931778E+20	3,713965E+20	7,911297E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910634E+18
-1309	3,713215E+20	9,931501E+20	1,356751E+21	1,356756E+21	9,931696E+20	3,713514E+20	7,913814E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915846E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-1308	3,714082E+20	9,931886E+20	1,356736E+21	1,356706E+21	9,931257E+20	3,713350E+20	7,908183E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909444E+18
-1307	3,713496E+20	9,931168E+20	1,356691E+21	1,356726E+21	9,931793E+20	3,714043E+20	7,914139E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912498E+18
-1306	3,713327E+20	9,931487E+20	1,356718E+21	1,356701E+21	9,931090E+20	3,713151E+20	7,912652E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913464E+18
-1305	3,713811E+20	9,931182E+20	1,356631E+21	1,356618E+21	9,930880E+20	3,713468E+20	7,909991E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909573E+18
-1304	3,712858E+20	9,930273E+20	1,356604E+21	1,356627E+21	9,930910E+20	3,713608E+20	7,916814E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914851E+18
-1303	3,713298E+20	9,930574E+20	1,356573E+21	1,356547E+21	9,929844E+20	3,712595E+20	7,910021E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913971E+18
-1302	3,713387E+20	9,929902E+20	1,356457E+21	1,356477E+21	9,930022E+20	3,713290E+20	7,912588E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911597E+18
-1301	3,712554E+20	9,929608E+20	1,356492E+21	1,356490E+21	9,929788E+20	3,712975E+20	7,915963E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916866E+18
-1300	3,713254E+20	9,929897E+20	1,356469E+21	1,356426E+21	9,929003E+20	3,712454E+20	7,910663E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912472E+18
-1299	3,712766E+20	9,928965E+20	1,356388E+21	1,356430E+21	9,929673E+20	3,713278E+20	7,915854E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911942E+18
-1298	3,712378E+20	9,929179E+20	1,356434E+21	1,356436E+21	9,929280E+20	3,712569E+20	7,914167E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917285E+18
-1297	3,713251E+20	9,929470E+20	1,356398E+21	1,356387E+21	9,929175E+20	3,712756E+20	7,911614E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910611E+18
-1296	3,712589E+20	9,929069E+20	1,356426E+21	1,356464E+21	9,929884E+20	3,713326E+20	7,915984E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914911E+18
-1295	3,712993E+20	9,930077E+20	1,356506E+21	1,356481E+21	9,929427E+20	3,712493E+20	7,912130E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915109E+18
-1294	3,713465E+20	9,930153E+20	1,356493E+21	1,356494E+21	9,930084E+20	3,713256E+20	7,911426E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909433E+18
-1293	3,712693E+20	9,930077E+20	1,356583E+21	1,356598E+21	9,930628E+20	3,713392E+20	7,915511E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916622E+18
-1292	3,713502E+20	9,930868E+20	1,356622E+21	1,356598E+21	9,930241E+20	3,712783E+20	7,910307E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911335E+18
-1291	3,713440E+20	9,930475E+20	1,356569E+21	1,356611E+21	9,931077E+20	3,713723E+20	7,911808E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911089E+18
-1290	3,712909E+20	9,930640E+20	1,356631E+21	1,356637E+21	9,930892E+20	3,713276E+20	7,914944E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916066E+18
-1289	3,713776E+20	9,931090E+20	1,356617E+21	1,356582E+21	9,930422E+20	3,713106E+20	7,909572E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909473E+18
-1288	3,713094E+20	9,930250E+20	1,356576E+21	1,356607E+21	9,930873E+20	3,713740E+20	7,915554E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913204E+18
-1287	3,712970E+20	9,930472E+20	1,356585E+21	1,356572E+21	9,930091E+20	3,712744E+20	7,913031E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914669E+18
-1286	3,713500E+20	9,930205E+20	1,356492E+21	1,356480E+21	9,929861E+20	3,713038E+20	7,910025E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911028E+18
-1285	3,712580E+20	9,929340E+20	1,356469E+21	1,356490E+21	9,929941E+20	3,713234E+20	7,916932E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916204E+18
-1284	3,713035E+20	9,929762E+20	1,356460E+21	1,356426E+21	9,928937E+20	3,712272E+20	7,910848E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914557E+18
-1283	3,713059E+20	9,929108E+20	1,356350E+21	1,356361E+21	9,929154E+20	3,713004E+20	7,913761E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911549E+18
-1282	3,712110E+20	9,928524E+20	1,356363E+21	1,356372E+21	9,928945E+20	3,712701E+20	7,917125E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917101E+18
-1281	3,712862E+20	9,928879E+20	1,356332E+21	1,356302E+21	9,928229E+20	3,712189E+20	7,911707E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912957E+18
-1280	3,712412E+20	9,928011E+20	1,356261E+21	1,356303E+21	9,928797E+20	3,712981E+20	7,916497E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913164E+18
-1279	3,712162E+20	9,928356E+20	1,356311E+21	1,356311E+21	9,928355E+20	3,712212E+20	7,914294E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918453E+18
-1278	3,713078E+20	9,928857E+20	1,356297E+21	1,356273E+21	9,928306E+20	3,712411E+20	7,911673E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911441E+18
-1277	3,712386E+20	9,928479E+20	1,356343E+21	1,356368E+21	9,929125E+20	3,713046E+20	7,916280E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915667E+18
-1276	3,712743E+20	9,929449E+20	1,356435E+21	1,356408E+21	9,928812E+20	3,712254E+20	7,912960E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915284E+18
-1275	3,713175E+20	9,929455E+20	1,356408E+21	1,356413E+21	9,929505E+20	3,713031E+20	7,911880E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,909757E+18
-1274	3,712365E+20	9,929150E+20	1,356467E+21	1,356495E+21	9,929966E+20	3,713177E+20	7,916260E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917092E+18
-1273	3,713239E+20	9,930069E+20	1,356502E+21	1,356482E+21	9,929538E+20	3,712569E+20	7,911259E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911566E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-1272	3,713134E+20	9,929710E+20	1,356461E+21	1,356492E+21	9,930225E+20	3,713476E+20	7,912995E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911757E+18
-1271	3,712625E+20	9,929821E+20	1,356519E+21	1,356516E+21	9,929943E+20	3,712936E+20	7,915735E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916515E+18
-1270	3,713447E+20	9,930221E+20	1,356500E+21	1,356463E+21	9,929480E+20	3,712717E+20	7,909848E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910485E+18
-1269	3,712770E+20	9,929299E+20	1,356452E+21	1,356486E+21	9,929979E+20	3,713360E+20	7,915533E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914620E+18
-1268	3,712697E+20	9,929586E+20	1,356469E+21	1,356454E+21	9,929209E+20	3,712390E+20	7,913217E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915861E+18
-1267	3,713242E+20	9,929386E+20	1,356374E+21	1,356358E+21	9,928979E+20	3,712707E+20	7,910520E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911765E+18
-1266	3,712251E+20	9,928384E+20	1,356337E+21	1,356358E+21	9,929035E+20	3,712954E+20	7,918011E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916482E+18
-1265	3,712679E+20	9,928852E+20	1,356331E+21	1,356295E+21	9,928058E+20	3,712019E+20	7,912514E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914617E+18
-1264	3,712605E+20	9,928074E+20	1,356226E+21	1,356236E+21	9,928236E+20	3,712715E+20	7,915296E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912252E+18
-1263	3,711753E+20	9,927435E+20	1,356220E+21	1,356237E+21	9,927962E+20	3,712322E+20	7,917520E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918167E+18
-1262	3,712567E+20	9,927929E+20	1,356194E+21	1,356164E+21	9,927228E+20	3,711794E+20	7,911757E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914310E+18
-1261	3,712200E+20	9,927231E+20	1,356144E+21	1,356180E+21	9,927887E+20	3,712623E+20	7,916320E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914330E+18
-1260	3,711978E+20	9,927777E+20	1,356227E+21	1,356211E+21	9,927560E+20	3,711938E+20	7,915001E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918752E+18
-1259	3,712821E+20	9,928284E+20	1,356225E+21	1,356191E+21	9,927629E+20	3,712173E+20	7,912540E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911124E+18
-1258	3,712016E+20	9,927636E+20	1,356248E+21	1,356284E+21	9,928526E+20	3,712849E+20	7,917265E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915618E+18
-1257	3,712405E+20	9,928609E+20	1,356326E+21	1,356314E+21	9,928268E+20	3,712083E+20	7,914089E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915376E+18
-1256	3,712835E+20	9,928603E+20	1,356301E+21	1,356311E+21	9,928811E+20	3,712810E+20	7,912546E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,910888E+18
-1255	3,712161E+20	9,928319E+20	1,356346E+21	1,356376E+21	9,929129E+20	3,712870E+20	7,916564E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917959E+18
-1254	3,713019E+20	9,929366E+20	1,356392E+21	1,356361E+21	9,928627E+20	3,712236E+20	7,911460E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912572E+18
-1253	3,712897E+20	9,928990E+20	1,356362E+21	1,356380E+21	9,929312E+20	3,713124E+20	7,913247E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912784E+18
-1252	3,712350E+20	9,929055E+20	1,356423E+21	1,356414E+21	9,929104E+20	3,712608E+20	7,916348E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917206E+18
-1251	3,713148E+20	9,929388E+20	1,356390E+21	1,356353E+21	9,928659E+20	3,712385E+20	7,910204E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911272E+18
-1250	3,712438E+20	9,928283E+20	1,356315E+21	1,356357E+21	9,929109E+20	3,713061E+20	7,916299E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915201E+18
-1249	3,712398E+20	9,928691E+20	1,356334E+21	1,356322E+21	9,928371E+20	3,712141E+20	7,914491E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916124E+18
-1248	3,712861E+20	9,928486E+20	1,356255E+21	1,356228E+21	9,928023E+20	3,712429E+20	7,912116E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912379E+18
-1247	3,711888E+20	9,927352E+20	1,356204E+21	1,356225E+21	9,928021E+20	3,712603E+20	7,919002E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916752E+18
-1246	3,712264E+20	9,927813E+20	1,356197E+21	1,356164E+21	9,927056E+20	3,711630E+20	7,912935E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915799E+18
-1245	3,712258E+20	9,927046E+20	1,356091E+21	1,356104E+21	9,927257E+20	3,712318E+20	7,915296E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913581E+18
-1244	3,711500E+20	9,926579E+20	1,356101E+21	1,356114E+21	9,927047E+20	3,711974E+20	7,917657E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919231E+18
-1243	3,712349E+20	9,927225E+20	1,356087E+21	1,356051E+21	9,926395E+20	3,711485E+20	7,912234E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914749E+18
-1242	3,711927E+20	9,926470E+20	1,356038E+21	1,356071E+21	9,927112E+20	3,712382E+20	7,917243E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914375E+18
-1241	3,711684E+20	9,927073E+20	1,356132E+21	1,356118E+21	9,926912E+20	3,711760E+20	7,916628E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918574E+18
-1240	3,712430E+20	9,927451E+20	1,356133E+21	1,356105E+21	9,926970E+20	3,711958E+20	7,913751E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,911842E+18
-1239	3,711735E+20	9,926725E+20	1,356129E+21	1,356178E+21	9,927779E+20	3,712557E+20	7,917503E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916488E+18
-1238	3,712157E+20	9,927814E+20	1,356209E+21	1,356197E+21	9,927437E+20	3,711760E+20	7,914000E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916670E+18
-1237	3,712652E+20	9,927913E+20	1,356196E+21	1,356198E+21	9,927962E+20	3,712481E+20	7,912306E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912122E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-1236	3,711995E+20	9,927753E+20	1,356259E+21	1,356274E+21	9,928311E+20	3,712587E+20	7,917170E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918416E+18
-1235	3,712760E+20	9,928715E+20	1,356306E+21	1,356268E+21	9,927864E+20	3,711953E+20	7,912103E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912674E+18
-1234	3,712544E+20	9,928092E+20	1,356251E+21	1,356278E+21	9,928566E+20	3,712850E+20	7,914044E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913134E+18
-1233	3,712022E+20	9,928163E+20	1,356300E+21	1,356301E+21	9,928364E+20	3,712373E+20	7,917546E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917410E+18
-1232	3,712770E+20	9,928447E+20	1,356269E+21	1,356234E+21	9,927804E+20	3,712107E+20	7,911236E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912399E+18
-1231	3,712162E+20	9,927338E+20	1,356178E+21	1,356220E+21	9,928128E+20	3,712717E+20	7,917063E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915756E+18
-1230	3,712067E+20	9,927804E+20	1,356204E+21	1,356182E+21	9,927321E+20	3,711789E+20	7,915220E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917072E+18
-1229	3,712502E+20	9,927524E+20	1,356130E+21	1,356101E+21	9,927002E+20	3,712048E+20	7,912790E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913436E+18
-1228	3,711548E+20	9,926380E+20	1,356077E+21	1,356102E+21	9,927070E+20	3,712237E+20	7,919625E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917601E+18
-1227	3,711918E+20	9,926820E+20	1,356064E+21	1,356036E+21	9,926123E+20	3,711264E+20	7,913273E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916677E+18
-1226	3,711928E+20	9,926029E+20	1,355949E+21	1,355968E+21	9,926311E+20	3,711982E+20	7,915874E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914125E+18
-1225	3,711232E+20	9,925781E+20	1,355975E+21	1,355988E+21	9,926205E+20	3,711726E+20	7,918898E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919311E+18
-1224	3,711998E+20	9,926464E+20	1,355989E+21	1,355945E+21	9,925581E+20	3,711247E+20	7,913792E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915211E+18
-1223	3,711622E+20	9,925633E+20	1,355930E+21	1,355968E+21	9,926308E+20	3,712085E+20	7,917952E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914676E+18
-1222	3,711353E+20	9,926251E+20	1,356025E+21	1,356016E+21	9,926150E+20	3,711462E+20	7,916865E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919778E+18
-1221	3,712167E+20	9,926632E+20	1,356027E+21	1,356005E+21	9,926220E+20	3,711632E+20	7,913390E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913301E+18
-1220	3,711577E+20	9,926067E+20	1,356030E+21	1,356078E+21	9,927038E+20	3,712263E+20	7,917368E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917533E+18
-1219	3,711982E+20	9,927226E+20	1,356116E+21	1,356100E+21	9,926712E+20	3,711487E+20	7,914249E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917011E+18
-1218	3,712399E+20	9,927230E+20	1,356097E+21	1,356094E+21	9,927204E+20	3,712252E+20	7,913270E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912106E+18
-1217	3,711700E+20	9,927052E+20	1,356162E+21	1,356180E+21	9,927629E+20	3,712404E+20	7,918982E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918072E+18
-1216	3,712353E+20	9,927851E+20	1,356204E+21	1,356172E+21	9,927138E+20	3,711723E+20	7,913496E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913462E+18
-1215	3,712231E+20	9,927110E+20	1,356117E+21	1,356155E+21	9,927691E+20	3,712517E+20	7,914613E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913943E+18
-1214	3,711725E+20	9,927277E+20	1,356169E+21	1,356168E+21	9,927394E+20	3,712015E+20	7,917711E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918684E+18
-1213	3,712502E+20	9,927607E+20	1,356147E+21	1,356106E+21	9,926809E+20	3,711726E+20	7,911422E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913668E+18
-1212	3,711893E+20	9,926568E+20	1,356066E+21	1,356097E+21	9,927161E+20	3,712377E+20	7,917924E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916235E+18
-1211	3,711697E+20	9,926889E+20	1,356087E+21	1,356066E+21	9,926411E+20	3,711444E+20	7,915932E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917437E+18
-1210	3,712068E+20	9,926401E+20	1,355988E+21	1,355972E+21	9,926098E+20	3,711720E+20	7,913679E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914060E+18
-1209	3,711194E+20	9,925348E+20	1,355931E+21	1,355969E+21	9,926191E+20	3,711948E+20	7,920696E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918063E+18
-1208	3,711546E+20	9,925838E+20	1,355931E+21	1,355906E+21	9,925194E+20	3,710957E+20	7,914252E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917954E+18
-1207	3,711678E+20	9,925148E+20	1,355814E+21	1,355831E+21	9,925321E+20	3,711623E+20	7,916466E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914703E+18
-1206	3,710954E+20	9,925053E+20	1,355867E+21	1,355864E+21	9,925228E+20	3,711391E+20	7,919386E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920317E+18
-1205	3,711699E+20	9,925679E+20	1,355891E+21	1,355846E+21	9,924746E+20	3,710908E+20	7,914271E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916240E+18
-1204	3,711366E+20	9,924895E+20	1,355831E+21	1,355873E+21	9,925582E+20	3,711785E+20	7,918184E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915593E+18
-1203	3,711095E+20	9,925471E+20	1,355919E+21	1,355917E+21	9,925457E+20	3,711185E+20	7,917041E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920380E+18
-1202	3,711896E+20	9,925827E+20	1,355913E+21	1,355899E+21	9,925508E+20	3,711389E+20	7,913874E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913619E+18
-1201	3,711357E+20	9,925426E+20	1,355926E+21	1,355974E+21	9,926350E+20	3,712088E+20	7,918792E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917197E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-1200	3,711624E+20	9,926506E+20	1,356027E+21	1,356007E+21	9,926005E+20	3,711305E+20	7,915956E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917160E+18
-1199	3,712071E+20	9,926399E+20	1,355990E+21	1,355992E+21	9,926418E+20	3,711958E+20	7,914143E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,912358E+18
-1198	3,711362E+20	9,926221E+20	1,356050E+21	1,356068E+21	9,926787E+20	3,712083E+20	7,919319E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919218E+18
-1197	3,712066E+20	9,926984E+20	1,356088E+21	1,356061E+21	9,926294E+20	3,711365E+20	7,913329E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915060E+18
-1196	3,712040E+20	9,926387E+20	1,356003E+21	1,356039E+21	9,926820E+20	3,712164E+20	7,914698E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915149E+18
-1195	3,711491E+20	9,926529E+20	1,356057E+21	1,356051E+21	9,926521E+20	3,711685E+20	7,918053E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919155E+18
-1194	3,712155E+20	9,926712E+20	1,356026E+21	1,355984E+21	9,925907E+20	3,711424E+20	7,912444E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914136E+18
-1193	3,711525E+20	9,925618E+20	1,355937E+21	1,355977E+21	9,926306E+20	3,712112E+20	7,919689E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916241E+18
-1192	3,711229E+20	9,925776E+20	1,355951E+21	1,355942E+21	9,925526E+20	3,711149E+20	7,917181E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918571E+18
-1191	3,711718E+20	9,925278E+20	1,355828E+21	1,355820E+21	9,925040E+20	3,711322E+20	7,914299E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915013E+18
-1190	3,710897E+20	9,924436E+20	1,355790E+21	1,355817E+21	9,925073E+20	3,711543E+20	7,920809E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919353E+18
-1189	3,711280E+20	9,925028E+20	1,355811E+21	1,355775E+21	9,924179E+20	3,710575E+20	7,914616E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919132E+18
-1188	3,711433E+20	9,924473E+20	1,355716E+21	1,355721E+21	9,924426E+20	3,711283E+20	7,917124E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915246E+18
-1187	3,710642E+20	9,924279E+20	1,355771E+21	1,355771E+21	9,924486E+20	3,711088E+20	7,919818E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920675E+18
-1186	3,711333E+20	9,924753E+20	1,355776E+21	1,355746E+21	9,924075E+20	3,710661E+20	7,915037E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916625E+18
-1185	3,711069E+20	9,924059E+20	1,355716E+21	1,355772E+21	9,924951E+20	3,711596E+20	7,919223E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915671E+18
-1184	3,710765E+20	9,924650E+20	1,355812E+21	1,355816E+21	9,924781E+20	3,710985E+20	7,918150E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921008E+18
-1183	3,711641E+20	9,925049E+20	1,355796E+21	1,355780E+21	9,924690E+20	3,711120E+20	7,914677E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913809E+18
-1182	3,711089E+20	9,924774E+20	1,355831E+21	1,355863E+21	9,925475E+20	3,711794E+20	7,919322E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918083E+18
-1181	3,711344E+20	9,925750E+20	1,355933E+21	1,355912E+21	9,925216E+20	3,710982E+20	7,916367E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918349E+18
-1180	3,711853E+20	9,925700E+20	1,355890E+21	1,355892E+21	9,925646E+20	3,711619E+20	7,914174E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,913681E+18
-1179	3,711146E+20	9,925478E+20	1,355943E+21	1,355961E+21	9,926004E+20	3,711742E+20	7,919167E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920039E+18
-1178	3,711802E+20	9,926169E+20	1,355970E+21	1,355945E+21	9,925497E+20	3,711070E+20	7,913726E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915678E+18
-1177	3,711774E+20	9,925641E+20	1,355891E+21	1,355925E+21	9,926034E+20	3,711939E+20	7,916244E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915004E+18
-1176	3,711073E+20	9,925604E+20	1,355945E+21	1,355941E+21	9,925711E+20	3,711450E+20	7,919707E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919444E+18
-1175	3,711734E+20	9,925623E+20	1,355885E+21	1,355852E+21	9,924970E+20	3,711086E+20	7,913505E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914738E+18
-1174	3,711132E+20	9,924582E+20	1,355794E+21	1,355830E+21	9,925249E+20	3,711725E+20	7,920073E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917562E+18
-1173	3,710901E+20	9,924734E+20	1,355808E+21	1,355800E+21	9,924476E+20	3,710730E+20	7,917138E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920270E+18
-1172	3,711498E+20	9,924476E+20	1,355699E+21	1,355682E+21	9,923999E+20	3,710906E+20	7,914553E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916191E+18
-1171	3,710653E+20	9,923682E+20	1,355675E+21	1,355691E+21	9,924113E+20	3,711178E+20	7,921166E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919635E+18
-1170	3,710924E+20	9,924169E+20	1,355701E+21	1,355664E+21	9,923346E+20	3,710300E+20	7,915876E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919378E+18
-1169	3,711067E+20	9,923588E+20	1,355607E+21	1,355623E+21	9,923724E+20	3,711068E+20	7,918880E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915093E+18
-1168	3,710207E+20	9,923248E+20	1,355653E+21	1,355670E+21	9,923812E+20	3,710880E+20	7,921059E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921389E+18
-1167	3,710998E+20	9,923746E+20	1,355638E+21	1,355619E+21	9,923246E+20	3,710363E+20	7,915636E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917258E+18
-1166	3,710813E+20	9,923300E+20	1,355597E+21	1,355639E+21	9,924017E+20	3,711275E+20	7,919266E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916704E+18
-1165	3,710534E+20	9,923933E+20	1,355710E+21	1,355704E+21	9,923932E+20	3,710673E+20	7,918518E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921930E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-1164	3,711441E+20	9,924475E+20	1,355711E+21	1,355683E+21	9,923890E+20	3,710801E+20	7,915055E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914530E+18
-1163	3,710852E+20	9,924110E+20	1,355745E+21	1,355776E+21	9,924769E+20	3,711475E+20	7,919279E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918717E+18
-1162	3,711061E+20	9,924952E+20	1,355831E+21	1,355818E+21	9,924568E+20	3,710729E+20	7,916756E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919077E+18
-1161	3,711620E+20	9,924960E+20	1,355788E+21	1,355797E+21	9,924999E+20	3,711399E+20	7,914987E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914064E+18
-1160	3,710850E+20	9,924685E+20	1,355838E+21	1,355860E+21	9,925320E+20	3,711530E+20	7,920195E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920485E+18
-1159	3,711493E+20	9,925318E+20	1,355847E+21	1,355819E+21	9,924627E+20	3,710789E+20	7,914762E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915939E+18
-1158	3,711421E+20	9,924803E+20	1,355776E+21	1,355794E+21	9,925042E+20	3,711616E+20	7,917197E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915829E+18
-1157	3,710697E+20	9,924558E+20	1,355817E+21	1,355818E+21	9,924775E+20	3,711088E+20	7,920349E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920678E+18
-1156	3,711425E+20	9,924657E+20	1,355747E+21	1,355715E+21	9,923970E+20	3,710685E+20	7,913835E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916250E+18
-1155	3,710867E+20	9,923655E+20	1,355660E+21	1,355691E+21	9,924210E+20	3,711293E+20	7,919960E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918412E+18
-1154	3,710604E+20	9,923819E+20	1,355675E+21	1,355661E+21	9,923485E+20	3,710388E+20	7,917754E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920851E+18
-1153	3,711181E+20	9,923650E+20	1,355585E+21	1,355563E+21	9,923119E+20	3,710642E+20	7,916325E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915932E+18
-1152	3,710220E+20	9,922745E+20	1,355568E+21	1,355588E+21	9,923334E+20	3,710933E+20	7,922655E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919783E+18
-1151	3,710494E+20	9,923091E+20	1,355565E+21	1,355542E+21	9,922520E+20	3,710010E+20	7,917016E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919923E+18
-1150	3,710695E+20	9,922613E+20	1,355477E+21	1,355492E+21	9,922829E+20	3,710746E+20	7,919128E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916396E+18
-1149	3,709935E+20	9,922289E+20	1,355525E+21	1,355548E+21	9,922943E+20	3,710535E+20	7,920946E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922882E+18
-1148	3,710827E+20	9,923064E+20	1,355525E+21	1,355497E+21	9,922359E+20	3,710014E+20	7,915636E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918393E+18
-1147	3,710646E+20	9,922723E+20	1,355507E+21	1,355531E+21	9,923156E+20	3,710936E+20	7,919147E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917149E+18
-1146	3,710280E+20	9,923263E+20	1,355622E+21	1,355611E+21	9,923209E+20	3,710429E+20	7,919391E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922248E+18
-1145	3,711170E+20	9,923768E+20	1,355626E+21	1,355605E+21	9,923302E+20	3,710606E+20	7,916393E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914590E+18
-1144	3,710530E+20	9,923295E+20	1,355648E+21	1,355690E+21	9,924185E+20	3,711279E+20	7,920192E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919311E+18
-1143	3,710775E+20	9,924088E+20	1,355709E+21	1,355702E+21	9,923816E+20	3,710477E+20	7,917518E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919426E+18
-1142	3,711348E+20	9,924237E+20	1,355680E+21	1,355671E+21	9,924110E+20	3,711107E+20	7,915391E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,914888E+18
-1141	3,710556E+20	9,923841E+20	1,355729E+21	1,355746E+21	9,924450E+20	3,711229E+20	7,920973E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921067E+18
-1140	3,711180E+20	9,924510E+20	1,355737E+21	1,355703E+21	9,923720E+20	3,710444E+20	7,915391E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916854E+18
-1139	3,711093E+20	9,923878E+20	1,355656E+21	1,355672E+21	9,924111E+20	3,711231E+20	7,917440E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916553E+18
-1138	3,710346E+20	9,923520E+20	1,355679E+21	1,355686E+21	9,923871E+20	3,710763E+20	7,920857E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921559E+18
-1137	3,711126E+20	9,923710E+20	1,355616E+21	1,355589E+21	9,923060E+20	3,710374E+20	7,914948E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916779E+18
-1136	3,710527E+20	9,922719E+20	1,355532E+21	1,355564E+21	9,923310E+20	3,710992E+20	7,920994E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918780E+18
-1135	3,710243E+20	9,922860E+20	1,355540E+21	1,355522E+21	9,922497E+20	3,710075E+20	7,918933E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921231E+18
-1134	3,710794E+20	9,922740E+20	1,355467E+21	1,355431E+21	9,922107E+20	3,710298E+20	7,917324E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916877E+18
-1133	3,709846E+20	9,921674E+20	1,355438E+21	1,355468E+21	9,922453E+20	3,710587E+20	7,923130E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921035E+18
-1132	3,710209E+20	9,922172E+20	1,355432E+21	1,355411E+21	9,921601E+20	3,709643E+20	7,917186E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921488E+18
-1131	3,710471E+20	9,921788E+20	1,355355E+21	1,355364E+21	9,921881E+20	3,710359E+20	7,918793E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917192E+18
-1130	3,709707E+20	9,921525E+20	1,355410E+21	1,355429E+21	9,922106E+20	3,710258E+20	7,921406E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923286E+18
-1129	3,710570E+20	9,922395E+20	1,355437E+21	1,355405E+21	9,921638E+20	3,709807E+20	7,917182E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918066E+18



1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-1128	3,710309E+20	9,921991E+20	1,355425E+21	1,355453E+21	9,922543E+20	3,710734E+20	7,920251E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917195E+18
-1127	3,709940E+20	9,922419E+20	1,355514E+21	1,355512E+21	9,922537E+20	3,710211E+20	7,920467E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922553E+18
-1126	3,710871E+20	9,923007E+20	1,355525E+21	1,355498E+21	9,922549E+20	3,710341E+20	7,916688E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915654E+18
-1125	3,710296E+20	9,922485E+20	1,355540E+21	1,355587E+21	9,923444E+20	3,710989E+20	7,920351E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920375E+18
-1124	3,710585E+20	9,923431E+20	1,355602E+21	1,355588E+21	9,922994E+20	3,710172E+20	7,917841E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920287E+18
-1123	3,711112E+20	9,923560E+20	1,355584E+21	1,355562E+21	9,923221E+20	3,710768E+20	7,915553E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915435E+18
-1122	3,710247E+20	9,922974E+20	1,355618E+21	1,355637E+21	9,923623E+20	3,710949E+20	7,921964E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921480E+18
-1121	3,710822E+20	9,923539E+20	1,355619E+21	1,355597E+21	9,922932E+20	3,710185E+20	7,916727E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917386E+18
-1120	3,710733E+20	9,922874E+20	1,355526E+21	1,355551E+21	9,923252E+20	3,710918E+20	7,918196E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917349E+18
-1119	3,710022E+20	9,922513E+20	1,355528E+21	1,355535E+21	9,922834E+20	3,710420E+20	7,921623E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922101E+18
-1118	3,710804E+20	9,922859E+20	1,355487E+21	1,355441E+21	9,921975E+20	3,710010E+20	7,915666E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917675E+18
-1117	3,710184E+20	9,921777E+20	1,355409E+21	1,355437E+21	9,922321E+20	3,710633E+20	7,921858E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919453E+18
-1116	3,709901E+20	9,921952E+20	1,355417E+21	1,355398E+21	9,921540E+20	3,709711E+20	7,919588E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922395E+18
-1115	3,710451E+20	9,921772E+20	1,355344E+21	1,355310E+21	9,921173E+20	3,709908E+20	7,917444E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917885E+18
-1114	3,709535E+20	9,920668E+20	1,355302E+21	1,355343E+21	9,921595E+20	3,710276E+20	7,923389E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921900E+18
-1113	3,709922E+20	9,921287E+20	1,355313E+21	1,355298E+21	9,920793E+20	3,709384E+20	7,918253E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921886E+18
-1112	3,710176E+20	9,920999E+20	1,355246E+21	1,355254E+21	9,921096E+20	3,710108E+20	7,919723E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917182E+18
-1111	3,709388E+20	9,920733E+20	1,355297E+21	1,355311E+21	9,921252E+20	3,710022E+20	7,922772E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923239E+18
-1110	3,710227E+20	9,921650E+20	1,355341E+21	1,355301E+21	9,920837E+20	3,709547E+20	7,918293E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918699E+18
-1109	3,710000E+20	9,921116E+20	1,355319E+21	1,355360E+21	9,921850E+20	3,710454E+20	7,920704E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918358E+18
-1108	3,709734E+20	9,921696E+20	1,355405E+21	1,355405E+21	9,921769E+20	3,709906E+20	7,920592E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923938E+18
-1107	3,710693E+20	9,922349E+20	1,355425E+21	1,355390E+21	9,921709E+20	3,709990E+20	7,916286E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916447E+18
-1106	3,710085E+20	9,921801E+20	1,355437E+21	1,355481E+21	9,922684E+20	3,710734E+20	7,920864E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920615E+18
-1105	3,710283E+20	9,922705E+20	1,355513E+21	1,355499E+21	9,92276E+20	3,709956E+20	7,919298E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920123E+18
-1104	3,710732E+20	9,922687E+20	1,355480E+21	1,355468E+21	9,922509E+20	3,710519E+20	7,916589E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,915715E+18
-1103	3,709868E+20	9,921961E+20	1,355480E+21	1,355510E+21	9,922771E+20	3,710676E+20	7,923039E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921998E+18
-1102	3,710483E+20	9,922610E+20	1,355487E+21	1,355459E+21	9,921962E+20	3,709850E+20	7,917170E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918695E+18
-1101	3,710451E+20	9,921923E+20	1,355391E+21	1,355418E+21	9,922272E+20	3,710537E+20	7,918548E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918524E+18
-1100	3,709786E+20	9,921742E+20	1,355401E+21	1,355395E+21	9,921781E+20	3,710034E+20	7,922017E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923123E+18
-1099	3,710504E+20	9,922051E+20	1,355376E+21	1,355316E+21	9,920925E+20	3,709600E+20	7,916067E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918426E+18
-1098	3,709825E+20	9,920806E+20	1,355285E+21	1,355320E+21	9,921440E+20	3,710316E+20	7,922839E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920004E+18
-1097	3,709505E+20	9,920903E+20	1,355291E+21	1,355287E+21	9,920738E+20	3,709450E+20	7,920976E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923089E+18
-1096	3,710079E+20	9,920735E+20	1,355209E+21	1,355188E+21	9,920340E+20	3,709619E+20	7,918335E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918448E+18
-1095	3,709208E+20	9,919682E+20	1,355154E+21	1,355197E+21	9,920623E+20	3,709982E+20	7,924306E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922168E+18
-1094	3,709590E+20	9,920478E+20	1,355192E+21	1,355164E+21	9,919826E+20	3,709084E+20	7,919236E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922414E+18
-1093	3,709848E+20	9,920163E+20	1,355139E+21	1,355146E+21	9,920239E+20	3,709791E+20	7,920522E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917748E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\ominus$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-1092	3,709118E+20	9,919998E+20	1,355192E+21	1,355205E+21	9,920433E+20	3,709706E+20	7,923265E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,924334E+18
-1091	3,709969E+20	9,920909E+20	1,355243E+21	1,355205E+21	9,920074E+20	3,709207E+20	7,918166E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919756E+18
-1090	3,709796E+20	9,920386E+20	1,355215E+21	1,355264E+21	9,921163E+20	3,710180E+20	7,920660E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919267E+18
-1089	3,709520E+20	9,921012E+20	1,355312E+21	1,355317E+21	9,921128E+20	3,709698E+20	7,921468E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,924241E+18
-1088	3,710430E+20	9,921691E+20	1,355335E+21	1,355301E+21	9,921048E+20	3,709767E+20	7,916950E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,916502E+18
-1087	3,709770E+20	9,921028E+20	1,355326E+21	1,355368E+21	9,921873E+20	3,710509E+20	7,922233E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920552E+18
-1086	3,709903E+20	9,921848E+20	1,355403E+21	1,355388E+21	9,921467E+20	3,709692E+20	7,920396E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920806E+18
-1085	3,710381E+20	9,921694E+20	1,355352E+21	1,355353E+21	9,921673E+20	3,710194E+20	7,917247E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917009E+18
-1084	3,709627E+20	9,921110E+20	1,355345E+21	1,355372E+21	9,921764E+20	3,710296E+20	7,923326E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923318E+18
-1083	3,710242E+20	9,921821E+20	1,355365E+21	1,355326E+21	9,920910E+20	3,709427E+20	7,917051E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919681E+18
-1082	3,710178E+20	9,921115E+20	1,355273E+21	1,355293E+21	9,921317E+20	3,710194E+20	7,919282E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918916E+18
-1081	3,709414E+20	9,920856E+20	1,355295E+21	1,355291E+21	9,920933E+20	3,709762E+20	7,923523E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923229E+18
-1080	3,710065E+20	9,921031E+20	1,355255E+21	1,355209E+21	9,920137E+20	3,709310E+20	7,917228E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918883E+18
-1079	3,709395E+20	9,919670E+20	1,355132E+21	1,355180E+21	9,920526E+20	3,710031E+20	7,924064E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920522E+18
-1078	3,709117E+20	9,919847E+20	1,355146E+21	1,355144E+21	9,919767E+20	3,709125E+20	7,921683E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,924237E+18
-1077	3,709754E+20	9,919718E+20	1,355065E+21	1,355051E+21	9,919373E+20	3,709262E+20	7,918975E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919484E+18
-1076	3,708979E+20	9,918925E+20	1,355027E+21	1,355057E+21	9,919577E+20	3,709609E+20	7,924671E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923173E+18
-1075	3,709324E+20	9,919756E+20	1,355091E+21	1,355048E+21	9,918842E+20	3,708696E+20	7,919555E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923243E+18
-1074	3,709570E+20	9,919377E+20	1,355036E+21	1,355048E+21	9,919487E+20	3,709486E+20	7,920975E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918522E+18
-1073	3,708845E+20	9,919232E+20	1,355099E+21	1,355120E+21	9,919795E+20	3,709472E+20	7,924052E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925143E+18
-1072	3,709720E+20	9,920168E+20	1,355143E+21	1,355115E+21	9,919447E+20	3,708967E+20	7,918652E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920064E+18
-1071	3,709536E+20	9,919657E+20	1,355101E+21	1,355151E+21	9,920423E+20	3,709966E+20	7,921490E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919242E+18
-1070	3,709211E+20	9,920318E+20	1,355215E+21	1,355211E+21	9,920379E+20	3,709481E+20	7,922617E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,924253E+18
-1069	3,710065E+20	9,920848E+20	1,355233E+21	1,355205E+21	9,920320E+20	3,709507E+20	7,917902E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,917041E+18
-1068	3,709482E+20	9,920232E+20	1,355211E+21	1,355254E+21	9,921033E+20	3,710192E+20	7,922760E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921693E+18
-1067	3,709624E+20	9,921008E+20	1,355287E+21	1,355272E+21	9,920571E+20	3,709315E+20	7,920241E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922143E+18
-1066	3,710155E+20	9,920871E+20	1,355231E+21	1,355234E+21	9,920810E+20	3,709841E+20	7,917313E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918160E+18
-1065	3,709384E+20	9,920349E+20	1,355238E+21	1,355261E+21	9,920919E+20	3,709996E+20	7,924156E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923782E+18
-1064	3,709933E+20	9,921039E+20	1,355257E+21	1,355216E+21	9,920075E+20	3,709135E+20	7,917955E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919861E+18
-1063	3,709779E+20	9,920166E+20	1,355145E+21	1,355165E+21	9,920384E+20	3,709911E+20	7,920938E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919058E+18
-1062	3,708967E+20	9,919777E+20	1,355160E+21	1,355164E+21	9,920046E+20	3,709466E+20	7,924765E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,924069E+18
-1061	3,709645E+20	9,919858E+20	1,355103E+21	1,355074E+21	9,919215E+20	3,708964E+20	7,918053E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920487E+18
-1060	3,709130E+20	9,918697E+20	1,354975E+21	1,355018E+21	9,919407E+20	3,709623E+20	7,924366E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921868E+18
-1059	3,708852E+20	9,918969E+20	1,355012E+21	1,354997E+21	9,918646E+20	3,708687E+20	7,921593E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925270E+18
-1058	3,709482E+20	9,918919E+20	1,354948E+21	1,354924E+21	9,918391E+20	3,708892E+20	7,919545E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919920E+18
-1057	3,708651E+20	9,918134E+20	1,354933E+21	1,354959E+21	9,918760E+20	3,709322E+20	7,925699E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923447E+18

1 Longitude ☉ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-1056	3,708979E+20	9,918927E+20	1,354992E+21	1,354960E+21	9,918194E+20	3,708446E+20	7,920404E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923564E+18
-1055	3,709239E+20	9,918511E+20	1,354920E+21	1,354939E+21	9,918769E+20	3,709261E+20	7,921884E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918904E+18
-1054	3,708553E+20	9,918438E+20	1,354990E+21	1,355014E+21	9,919104E+20	3,709249E+20	7,924748E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925712E+18
-1053	3,709434E+20	9,919373E+20	1,355034E+21	1,355012E+21	9,918760E+20	3,708723E+20	7,919396E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920641E+18
-1052	3,709314E+20	9,919012E+20	1,354997E+21	1,355032E+21	9,919564E+20	3,709676E+20	7,922007E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919892E+18
-1051	3,708924E+20	9,919571E+20	1,355120E+21	1,355110E+21	9,919534E+20	3,709144E+20	7,922981E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,924960E+18
-1050	3,709771E+20	9,920008E+20	1,355125E+21	1,355105E+21	9,919580E+20	3,709202E+20	7,918262E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918111E+18
-1049	3,709223E+20	9,919423E+20	1,355108E+21	1,355151E+21	9,920273E+20	3,709907E+20	7,923350E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922756E+18
-1048	3,709389E+20	9,920233E+20	1,355176E+21	1,355161E+21	9,919783E+20	3,709021E+20	7,920618E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922651E+18
-1047	3,709870E+20	9,920074E+20	1,355108E+21	1,355103E+21	9,919899E+20	3,709554E+20	7,918353E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918349E+18
-1046	3,709033E+20	9,919524E+20	1,355125E+21	1,355140E+21	9,920046E+20	3,709714E+20	7,925386E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923850E+18
-1045	3,709498E+20	9,920008E+20	1,355132E+21	1,355101E+21	9,919244E+20	3,708833E+20	7,919160E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920729E+18
-1044	3,709418E+20	9,919155E+20	1,355004E+21	1,355026E+21	9,919403E+20	3,709549E+20	7,921693E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920382E+18
-1043	3,708635E+20	9,918725E+20	1,355019E+21	1,355023E+21	9,918995E+20	3,709043E+20	7,924689E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925497E+18
-1042	3,709353E+20	9,918858E+20	1,354959E+21	1,354932E+21	9,918212E+20	3,708574E+20	7,918247E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921775E+18
-1041	3,708862E+20	9,917865E+20	1,354856E+21	1,354888E+21	9,918424E+20	3,709273E+20	7,925001E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922422E+18
-1040	3,708552E+20	9,918173E+20	1,354901E+21	1,354878E+21	9,917736E+20	3,708374E+20	7,922426E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925296E+18
-1039	3,709094E+20	9,918017E+20	1,354830E+21	1,354806E+21	9,917511E+20	3,708616E+20	7,921111E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919928E+18
-1038	3,708266E+20	9,917206E+20	1,354818E+21	1,354853E+21	9,918028E+20	3,709069E+20	7,926778E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923987E+18
-1037	3,708622E+20	9,917952E+20	1,354869E+21	1,354853E+21	9,917498E+20	3,708198E+20	7,921353E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,924687E+18
-1036	3,709022E+20	9,917746E+20	1,354800E+21	1,354812E+21	9,917899E+20	3,708947E+20	7,922089E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919936E+18
-1035	3,708335E+20	9,917732E+20	1,354888E+21	1,354901E+21	9,918230E+20	3,708910E+20	7,924660E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,926388E+18
-1034	3,709175E+20	9,918671E+20	1,354940E+21	1,354913E+21	9,918003E+20	3,708432E+20	7,919770E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921101E+18
-1033	3,709028E+20	9,918308E+20	1,354915E+21	1,354945E+21	9,918859E+20	3,709415E+20	7,922621E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920507E+18
-1032	3,708647E+20	9,918785E+20	1,355021E+21	1,355018E+21	9,918896E+20	3,708896E+20	7,923502E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925398E+18
-1031	3,709479E+20	9,919164E+20	1,355007E+21	1,354990E+21	9,918808E+20	3,708949E+20	7,919050E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,918787E+18
-1030	3,708971E+20	9,918630E+20	1,354994E+21	1,355038E+21	9,919499E+20	3,709634E+20	7,924008E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923324E+18
-1029	3,709097E+20	9,919418E+20	1,355061E+21	1,355045E+21	9,918986E+20	3,708753E+20	7,921534E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923379E+18
-1028	3,709606E+20	9,919327E+20	1,354994E+21	1,354970E+21	9,918892E+20	3,709210E+20	7,919173E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919113E+18
-1027	3,708685E+20	9,918598E+20	1,355009E+21	1,355020E+21	9,919074E+20	3,709330E+20	7,925843E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,924639E+18
-1026	3,709128E+20	9,918965E+20	1,354999E+21	1,354977E+21	9,918355E+20	3,708473E+20	7,919614E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922148E+18
-1025	3,709093E+20	9,918153E+20	1,354872E+21	1,354892E+21	9,918437E+20	3,709201E+20	7,922425E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921496E+18
-1024	3,708349E+20	9,917760E+20	1,354881E+21	1,354886E+21	9,918038E+20	3,708701E+20	7,925149E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925778E+18
-1023	3,708989E+20	9,917906E+20	1,354820E+21	1,354785E+21	9,917167E+20	3,708259E+20	7,919661E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921796E+18
-1022	3,708467E+20	9,916936E+20	1,354734E+21	1,354762E+21	9,917486E+20	3,708964E+20	7,926308E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922260E+18
-1021	3,708109E+20	9,917145E+20	1,354778E+21	1,354764E+21	9,916920E+20	3,708095E+20	7,923726E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,926106E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-1020	3,708760E+20	9,917082E+20	1,354702E+21	1,354677E+21	9,916600E+20	3,708277E+20	7,921750E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921143E+18
-1019	3,707994E+20	9,916316E+20	1,354700E+21	1,354736E+21	9,917140E+20	3,708696E+20	7,926442E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925320E+18
-1018	3,708402E+20	9,917154E+20	1,354753E+21	1,354741E+21	9,916724E+20	3,707882E+20	7,921371E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925859E+18
-1017	3,708816E+20	9,917109E+20	1,354711E+21	1,354709E+21	9,917123E+20	3,708673E+20	7,922406E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920553E+18
-1016	3,708111E+20	9,917068E+20	1,354800E+21	1,354808E+21	9,917511E+20	3,708661E+20	7,925253E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,926253E+18
-1015	3,708825E+20	9,917851E+20	1,354838E+21	1,354813E+21	9,917277E+20	3,708211E+20	7,921040E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921282E+18
-1014	3,708718E+20	9,917479E+20	1,354808E+21	1,354846E+21	9,918191E+20	3,709178E+20	7,923441E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921152E+18
-1013	3,708361E+20	9,917923E+20	1,354902E+21	1,354908E+21	9,918182E+20	3,708668E+20	7,924479E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,926380E+18
-1012	3,709284E+20	9,918458E+20	1,354892E+21	1,354861E+21	9,917882E+20	3,708625E+20	7,919469E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,919671E+18
-1011	3,708738E+20	9,917932E+20	1,354893E+21	1,354922E+21	9,918545E+20	3,709265E+20	7,924172E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923802E+18
-1010	3,708778E+20	9,918601E+20	1,354956E+21	1,354938E+21	9,918150E+20	3,708439E+20	7,922173E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923908E+18
-1009	3,709242E+20	9,918454E+20	1,354894E+21	1,354867E+21	9,918069E+20	3,708899E+20	7,919909E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920044E+18
-1008	3,708355E+20	9,917604E+20	1,354882E+21	1,354903E+21	9,918259E+20	3,709026E+20	7,926415E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925011E+18
-1007	3,708735E+20	9,917882E+20	1,354852E+21	1,354836E+21	9,917410E+20	3,708176E+20	7,920653E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922949E+18
-1006	3,708760E+20	9,917151E+20	1,354729E+21	1,354752E+21	9,917477E+20	3,708874E+20	7,923457E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921862E+18
-1005	3,707984E+20	9,916772E+20	1,354741E+21	1,354745E+21	9,917057E+20	3,708396E+20	7,926347E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,926398E+18
-1004	3,708653E+20	9,917003E+20	1,354690E+21	1,354640E+21	9,916044E+20	3,707871E+20	7,920705E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922618E+18
-1003	3,708114E+20	9,915972E+20	1,354613E+21	1,354639E+21	9,916467E+20	3,708539E+20	7,926469E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923361E+18
-1002	3,707791E+20	9,916173E+20	1,354650E+21	1,354646E+21	9,916075E+20	3,707750E+20	7,923935E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927797E+18
-1001	3,708516E+20	9,916268E+20	1,354592E+21	1,354562E+21	9,915745E+20	3,707949E+20	7,922004E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922468E+18
-1000	3,707809E+20	9,915583E+20	1,354590E+21	1,354625E+21	9,916355E+20	3,708406E+20	7,926536E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925382E+18
-999	3,708087E+20	9,916395E+20	1,354646E+21	1,354628E+21	9,915926E+20	3,707656E+20	7,922620E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925694E+18
-998	3,708473E+20	9,916321E+20	1,354612E+21	1,354615E+21	9,916423E+20	3,708453E+20	7,923615E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920234E+18
-997	3,707735E+20	9,916185E+20	1,354693E+21	1,354714E+21	9,916875E+20	3,708472E+20	7,926586E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,926837E+18
-996	3,708543E+20	9,917039E+20	1,354723E+21	1,354697E+21	9,916447E+20	3,707929E+20	7,921725E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922286E+18
-995	3,708492E+20	9,916716E+20	1,354701E+21	1,354738E+21	9,917326E+20	3,708821E+20	7,923152E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922358E+18
-994	3,708167E+20	9,917229E+20	1,354797E+21	1,354801E+21	9,917395E+20	3,708358E+20	7,924613E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927372E+18
-993	3,709066E+20	9,917856E+20	1,354806E+21	1,354757E+21	9,917045E+20	3,708323E+20	7,919914E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920362E+18
-992	3,708472E+20	9,917198E+20	1,354797E+21	1,354824E+21	9,917764E+20	3,708980E+20	7,924928E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923520E+18
-991	3,708345E+20	9,917608E+20	1,354836E+21	1,354826E+21	9,917351E+20	3,708190E+20	7,923616E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,924273E+18
-990	3,708843E+20	9,917376E+20	1,354756E+21	1,354747E+21	9,917256E+20	3,708621E+20	7,921073E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920814E+18
-989	3,707997E+20	9,916513E+20	1,354730E+21	1,354762E+21	9,917341E+20	3,708742E+20	7,927551E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,926068E+18
-988	3,708442E+20	9,916925E+20	1,354703E+21	1,354675E+21	9,916241E+20	3,707779E+20	7,921274E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,924033E+18
-987	3,708454E+20	9,916257E+20	1,354601E+21	1,354608E+21	9,916296E+20	3,708411E+20	7,923602E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922608E+18
-986	3,707642E+20	9,915847E+20	1,354616E+21	1,354617E+21	9,916045E+20	3,708002E+20	7,926744E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927392E+18
-985	3,708306E+20	9,916117E+20	1,354579E+21	1,354525E+21	9,915128E+20	3,707505E+20	7,921275E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923913E+18



1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-984	3,707835E+20	9,915071E+20	1,354493E+21	1,354526E+21	9,915651E+20	3,708211E+20	7,926680E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923838E+18
-983	3,707450E+20	9,915228E+20	1,354522E+21	1,354524E+21	9,915257E+20	3,707501E+20	7,924912E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928540E+18
-982	3,708228E+20	9,915425E+20	1,354473E+21	1,354452E+21	9,915000E+20	3,707708E+20	7,923071E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922562E+18
-981	3,707496E+20	9,914772E+20	1,354475E+21	1,354512E+21	9,915596E+20	3,708208E+20	7,927885E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925520E+18
-980	3,707751E+20	9,915586E+20	1,354536E+21	1,354511E+21	9,915029E+20	3,707370E+20	7,923791E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,926077E+18
-979	3,708147E+20	9,915487E+20	1,354508E+21	1,354513E+21	9,915565E+20	3,708095E+20	7,923713E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921176E+18
-978	3,707477E+20	9,915363E+20	1,354577E+21	1,354607E+21	9,916115E+20	3,708175E+20	7,926826E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928275E+18
-977	3,708355E+20	9,916396E+20	1,354628E+21	1,354593E+21	9,915657E+20	3,707625E+20	7,921880E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923553E+18
-976	3,708352E+20	9,916138E+20	1,354608E+21	1,354638E+21	9,916564E+20	3,708522E+20	7,923230E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922351E+18
-975	3,707855E+20	9,916517E+20	1,354700E+21	1,354699E+21	9,916633E+20	3,708137E+20	7,925871E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927222E+18
-974	3,708696E+20	9,917017E+20	1,354704E+21	1,354668E+21	9,916360E+20	3,708085E+20	7,921143E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,920364E+18
-973	3,708065E+20	9,916203E+20	1,354671E+21	1,354716E+21	9,917053E+20	3,708760E+20	7,926322E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,924232E+18
-972	3,707986E+20	9,916580E+20	1,354694E+21	1,354688E+21	9,916380E+20	3,707853E+20	7,924297E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925556E+18
-971	3,708548E+20	9,916400E+20	1,354617E+21	1,354607E+21	9,916174E+20	3,708185E+20	7,920931E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922339E+18
-970	3,707751E+20	9,915626E+20	1,354589E+21	1,354618E+21	9,916292E+20	3,708348E+20	7,927774E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927279E+18
-969	3,708170E+20	9,916169E+20	1,354589E+21	1,354539E+21	9,915156E+20	3,707387E+20	7,921781E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925121E+18
-968	3,708158E+20	9,915420E+20	1,354487E+21	1,354489E+21	9,915323E+20	3,708024E+20	7,924214E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922603E+18
-967	3,707211E+20	9,914820E+20	1,354487E+21	1,354497E+21	9,915170E+20	3,707710E+20	7,927972E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928044E+18
-966	3,707925E+20	9,915061E+20	1,354443E+21	1,354409E+21	9,914345E+20	3,707237E+20	7,922651E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,924479E+18
-965	3,707484E+20	9,914082E+20	1,354354E+21	1,354400E+21	9,914844E+20	3,707980E+20	7,928002E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,924412E+18
-964	3,707130E+20	9,914339E+20	1,354391E+21	1,354385E+21	9,914255E+20	3,707193E+20	7,925992E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928984E+18
-963	3,707882E+20	9,914569E+20	1,354360E+21	1,354331E+21	9,914019E+20	3,707344E+20	7,923497E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922926E+18
-962	3,707164E+20	9,913921E+20	1,354361E+21	1,354403E+21	9,914769E+20	3,707888E+20	7,928249E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,926452E+18
-961	3,707458E+20	9,914822E+20	1,354435E+21	1,354408E+21	9,914243E+20	3,707055E+20	7,924124E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927418E+18
-960	3,707953E+20	9,914774E+20	1,354407E+21	1,354415E+21	9,914839E+20	3,707777E+20	7,923522E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921741E+18
-959	3,707234E+20	9,914646E+20	1,354474E+21	1,354505E+21	9,915397E+20	3,707936E+20	7,927490E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928984E+18
-958	3,708131E+20	9,915724E+20	1,354530E+21	1,354502E+21	9,915017E+20	3,707409E+20	7,922879E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923576E+18
-957	3,708062E+20	9,915448E+20	1,354511E+21	1,354541E+21	9,915879E+20	3,708334E+20	7,924571E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922543E+18
-956	3,707505E+20	9,915680E+20	1,354591E+21	1,354588E+21	9,915774E+20	3,707851E+20	7,926994E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927687E+18
-955	3,708331E+20	9,916074E+20	1,354585E+21	1,354556E+21	9,915481E+20	3,707716E+20	7,921207E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,921764E+18
-954	3,707786E+20	9,915256E+20	1,354531E+21	1,354584E+21	9,916150E+20	3,708412E+20	7,926585E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925890E+18
-953	3,707753E+20	9,915768E+20	1,354567E+21	1,354552E+21	9,915372E+20	3,707473E+20	7,924432E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927036E+18
-952	3,708334E+20	9,915639E+20	1,354496E+21	1,354476E+21	9,915159E+20	3,707786E+20	7,921241E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922411E+18
-951	3,707366E+20	9,914734E+20	1,354469E+21	1,354490E+21	9,915308E+20	3,708036E+20	7,929101E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927242E+18
-950	3,707742E+20	9,915169E+20	1,354467E+21	1,354431E+21	9,914335E+20	3,707104E+20	7,923326E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925236E+18
-949	3,707716E+20	9,914361E+20	1,354351E+21	1,354367E+21	9,914511E+20	3,707774E+20	7,925849E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923234E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-948	3,706817E+20	9,913732E+20	1,354341E+21	1,354356E+21	9,914185E+20	3,707382E+20	7,928880E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929116E+18
-947	3,707596E+20	9,914073E+20	1,354306E+21	1,354275E+21	9,913339E+20	3,706837E+20	7,922773E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925812E+18
-946	3,707217E+20	9,913207E+20	1,354218E+21	1,354262E+21	9,913888E+20	3,707631E+20	7,928310E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925435E+18
-945	3,706850E+20	9,913588E+20	1,354284E+21	1,354263E+21	9,913295E+20	3,706841E+20	7,926441E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929956E+18
-944	3,707606E+20	9,913788E+20	1,354257E+21	1,354227E+21	9,913173E+20	3,706986E+20	7,923788E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923039E+18
-943	3,706819E+20	9,913046E+20	1,354249E+21	1,354297E+21	9,914015E+20	3,707627E+20	7,928965E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927359E+18
-942	3,707200E+20	9,914000E+20	1,354324E+21	1,354312E+21	9,913601E+20	3,706834E+20	7,925133E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928028E+18
-941	3,707725E+20	9,914082E+20	1,354301E+21	1,354311E+21	9,914162E+20	3,707573E+20	7,924465E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922306E+18
-940	3,706994E+20	9,913982E+20	1,354373E+21	1,354392E+21	9,914561E+20	3,707666E+20	7,928345E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929242E+18
-939	3,707825E+20	9,915007E+20	1,354438E+21	1,354405E+21	9,914201E+20	3,707084E+20	7,923197E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923980E+18
-938	3,707738E+20	9,914632E+20	1,354404E+21	1,354439E+21	9,915134E+20	3,708039E+20	7,925021E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923520E+18
-937	3,707200E+20	9,914849E+20	1,354483E+21	1,354478E+21	9,914968E+20	3,707534E+20	7,927319E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928987E+18
-936	3,708080E+20	9,915228E+20	1,354467E+21	1,354439E+21	9,914636E+20	3,707364E+20	7,921172E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922498E+18
-935	3,707491E+20	9,914385E+20	1,354404E+21	1,354455E+21	9,915251E+20	3,708113E+20	7,927413E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,926606E+18
-934	3,707462E+20	9,914896E+20	1,354442E+21	1,354430E+21	9,914516E+20	3,707207E+20	7,925776E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927047E+18
-933	3,707952E+20	9,914751E+20	1,354375E+21	1,354351E+21	9,914253E+20	3,707517E+20	7,923036E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922539E+18
-932	3,706929E+20	9,913695E+20	1,354337E+21	1,354356E+21	9,914274E+20	3,707673E+20	7,930368E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927693E+18
-931	3,707310E+20	9,914044E+20	1,354325E+21	1,354298E+21	9,913340E+20	3,706705E+20	7,923732E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,926741E+18
-930	3,707385E+20	9,913303E+20	1,354200E+21	1,354223E+21	9,913530E+20	3,707399E+20	7,926244E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,924983E+18
-929	3,706570E+20	9,912860E+20	1,354208E+21	1,354213E+21	9,913142E+20	3,706991E+20	7,928983E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930556E+18
-928	3,707351E+20	9,913275E+20	1,354185E+21	1,354145E+21	9,912360E+20	3,706450E+20	7,923010E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925974E+18
-927	3,706852E+20	9,912340E+20	1,354103E+21	1,354141E+21	9,912987E+20	3,707332E+20	7,929219E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925629E+18
-926	3,706483E+20	9,912640E+20	1,354170E+21	1,354164E+21	9,912587E+20	3,706595E+20	7,927695E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930091E+18
-925	3,707249E+20	9,912899E+20	1,354142E+21	1,354122E+21	9,912488E+20	3,706769E+20	7,924999E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923637E+18
-924	3,706535E+20	9,912207E+20	1,354134E+21	1,354180E+21	9,913174E+20	3,707336E+20	7,929500E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928279E+18
-923	3,706973E+20	9,913281E+20	1,354220E+21	1,354205E+21	9,912806E+20	3,706527E+20	7,925289E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928987E+18
-922	3,707526E+20	9,913459E+20	1,354203E+21	1,354203E+21	9,913401E+20	3,707297E+20	7,924767E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923171E+18
-921	3,706768E+20	9,913387E+20	1,354291E+21	1,354295E+21	9,913768E+20	3,707369E+20	7,928771E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929905E+18
-920	3,707542E+20	9,914260E+20	1,354346E+21	1,354315E+21	9,913487E+20	3,706763E+20	7,923420E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,924164E+18
-919	3,707385E+20	9,913719E+20	1,354288E+21	1,354331E+21	9,914408E+20	3,707790E+20	7,925806E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,924441E+18
-918	3,706915E+20	9,913896E+20	1,354358E+21	1,354369E+21	9,914256E+20	3,707307E+20	7,928490E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929410E+18
-917	3,707784E+20	9,914389E+20	1,354342E+21	1,354312E+21	9,913787E+20	3,707119E+20	7,922500E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,922940E+18
-916	3,707158E+20	9,913505E+20	1,354279E+21	1,354314E+21	9,914194E+20	3,707768E+20	7,928527E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,926771E+18
-915	3,707076E+20	9,913964E+20	1,354322E+21	1,354302E+21	9,913497E+20	3,706819E+20	7,926263E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927789E+18
-914	3,707570E+20	9,913740E+20	1,354242E+21	1,354221E+21	9,913296E+20	3,707133E+20	7,923619E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923945E+18
-913	3,706607E+20	9,912731E+20	1,354206E+21	1,354223E+21	9,913292E+20	3,707271E+20	7,930426E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929284E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-912	3,707039E+20	9,913098E+20	1,354192E+21	1,354167E+21	9,912382E+20	3,706295E+20	7,923655E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927811E+18
-911	3,707071E+20	9,912357E+20	1,354065E+21	1,354085E+21	9,912582E+20	3,707079E+20	7,927014E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925821E+18
-910	3,706271E+20	9,911926E+20	1,354083E+21	1,354091E+21	9,912285E+20	3,706730E+20	7,930266E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930491E+18
-909	3,706957E+20	9,912375E+20	1,354068E+21	1,354025E+21	9,911496E+20	3,706201E+20	7,924703E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,926053E+18
-908	3,706442E+20	9,911340E+20	1,353978E+21	1,354015E+21	9,912039E+20	3,707001E+20	7,930204E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,926078E+18
-907	3,706137E+20	9,911678E+20	1,354043E+21	1,354043E+21	9,911719E+20	3,706266E+20	7,928052E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931367E+18
-906	3,707008E+20	9,912075E+20	1,354021E+21	1,354001E+21	9,911654E+20	3,706454E+20	7,925351E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925019E+18
-905	3,706376E+20	9,911607E+20	1,354037E+21	1,354069E+21	9,912316E+20	3,707006E+20	7,929508E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929274E+18
-904	3,706773E+20	9,912686E+20	1,354135E+21	1,354110E+21	9,912054E+20	3,706223E+20	7,925605E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928785E+18
-903	3,707187E+20	9,912728E+20	1,354117E+21	1,354114E+21	9,912722E+20	3,707068E+20	7,925524E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923431E+18
-902	3,706439E+20	9,912488E+20	1,354188E+21	1,354212E+21	9,913202E+20	3,707185E+20	7,930035E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929833E+18
-901	3,707173E+20	9,913354E+20	1,354232E+21	1,354212E+21	9,912839E+20	3,706573E+20	7,924569E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,924770E+18
-900	3,707078E+20	9,912802E+20	1,354162E+21	1,354202E+21	9,913487E+20	3,707475E+20	7,926406E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925348E+18
-899	3,706658E+20	9,913045E+20	1,354230E+21	1,354236E+21	9,913309E+20	3,706967E+20	7,928819E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930338E+18
-898	3,707522E+20	9,913594E+20	1,354222E+21	1,354180E+21	9,912808E+20	3,706768E+20	7,923074E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,924055E+18
-897	3,706889E+20	9,912741E+20	1,354172E+21	1,354191E+21	9,913156E+20	3,707355E+20	7,928855E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927702E+18
-896	3,706751E+20	9,913050E+20	1,354204E+21	1,354186E+21	9,912583E+20	3,706420E+20	7,926406E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928505E+18
-895	3,707196E+20	9,912713E+20	1,354109E+21	1,354092E+21	9,912401E+20	3,706807E+20	7,924337E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925293E+18
-894	3,706312E+20	9,911685E+20	1,354066E+21	1,354097E+21	9,912447E+20	3,706996E+20	7,931516E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929658E+18
-893	3,706686E+20	9,912162E+20	1,354059E+21	1,354032E+21	9,911477E+20	3,706038E+20	7,925128E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928171E+18
-892	3,706671E+20	9,911361E+20	1,353933E+21	1,353941E+21	9,911501E+20	3,706741E+20	7,928372E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925772E+18
-891	3,705855E+20	9,910899E+20	1,353952E+21	1,353960E+21	9,911300E+20	3,706384E+20	7,931010E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930978E+18
-890	3,706561E+20	9,911353E+20	1,353935E+21	1,353897E+21	9,910583E+20	3,705861E+20	7,925478E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927339E+18
-889	3,706179E+20	9,910495E+20	1,353859E+21	1,353892E+21	9,911103E+20	3,706615E+20	7,930035E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927552E+18
-888	3,705947E+20	9,910943E+20	1,353935E+21	1,353932E+21	9,910889E+20	3,705912E+20	7,927893E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,932272E+18
-887	3,706784E+20	9,911387E+20	1,353920E+21	1,353896E+21	9,910907E+20	3,706199E+20	7,925907E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925686E+18
-886	3,706153E+20	9,910918E+20	1,353949E+21	1,353984E+21	9,911687E+20	3,706820E+20	7,930667E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928901E+18
-885	3,706424E+20	9,911956E+20	1,354047E+21	1,354024E+21	9,911423E+20	3,706047E+20	7,927147E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928598E+18
-884	3,706790E+20	9,911789E+20	1,354005E+21	1,354008E+21	9,911939E+20	3,706804E+20	7,926374E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,923956E+18
-883	3,706130E+20	9,911550E+20	1,354062E+21	1,354094E+21	9,912412E+20	3,706900E+20	7,930379E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931006E+18
-882	3,706931E+20	9,912509E+20	1,354104E+21	1,354083E+21	9,911950E+20	3,706260E+20	7,924929E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,926279E+18
-881	3,706919E+20	9,912159E+20	1,354053E+21	1,354074E+21	9,912478E+20	3,707082E+20	7,926350E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,926417E+18
-880	3,706434E+20	9,912374E+20	1,354130E+21	1,354122E+21	9,912364E+20	3,706593E+20	7,929094E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930395E+18
-879	3,707154E+20	9,912741E+20	1,354116E+21	1,354071E+21	9,911954E+20	3,706454E+20	7,923890E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,924673E+18
-878	3,706527E+20	9,911735E+20	1,354053E+21	1,354089E+21	9,912417E+20	3,707096E+20	7,930113E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927800E+18
-877	3,706345E+20	9,912033E+20	1,354075E+21	1,354065E+21	9,911782E+20	3,706180E+20	7,927689E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929187E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-876	3,706806E+20	9,911626E+20	1,353964E+21	1,353949E+21	9,911383E+20	3,706475E+20	7,925392E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,926122E+18
-875	3,705986E+20	9,910668E+20	1,353917E+21	1,353948E+21	9,911430E+20	3,706662E+20	7,932251E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930293E+18
-874	3,706315E+20	9,911177E+20	1,353920E+21	1,353886E+21	9,910411E+20	3,705687E+20	7,926177E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929226E+18
-873	3,706340E+20	9,910446E+20	1,353807E+21	1,353806E+21	9,910386E+20	3,706298E+20	7,928774E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,926684E+18
-872	3,705528E+20	9,909933E+20	1,353823E+21	1,353836E+21	9,910336E+20	3,705977E+20	7,931076E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931870E+18
-871	3,706238E+20	9,910418E+20	1,353807E+21	1,353774E+21	9,909718E+20	3,705541E+20	7,926023E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928748E+18
-870	3,705974E+20	9,909684E+20	1,353745E+21	1,353786E+21	9,910341E+20	3,706358E+20	7,930814E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927846E+18
-869	3,705680E+20	9,910266E+20	1,353836E+21	1,353829E+21	9,910175E+20	3,705722E+20	7,929210E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,932318E+18
-868	3,706436E+20	9,910607E+20	1,353823E+21	1,353793E+21	9,910088E+20	3,705937E+20	7,926974E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925564E+18
-867	3,705807E+20	9,910070E+20	1,353842E+21	1,353883E+21	9,910966E+20	3,706566E+20	7,931285E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929166E+18
-866	3,706060E+20	9,911045E+20	1,353931E+21	1,353918E+21	9,910703E+20	3,705785E+20	7,927802E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929766E+18
-865	3,706563E+20	9,911024E+20	1,353894E+21	1,353894E+21	9,911062E+20	3,706444E+20	7,926094E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925406E+18
-864	3,705965E+20	9,910854E+20	1,353951E+21	1,353981E+21	9,911558E+20	3,706555E+20	7,930287E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931812E+18
-863	3,706707E+20	9,911836E+20	1,354000E+21	1,353970E+21	9,911131E+20	3,705986E+20	7,925496E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927108E+18
-862	3,706685E+20	9,911450E+20	1,353959E+21	1,353978E+21	9,911705E+20	3,706828E+20	7,927549E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,926212E+18
-861	3,706058E+20	9,911562E+20	1,354031E+21	1,354024E+21	9,911612E+20	3,706359E+20	7,930591E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930361E+18
-860	3,706707E+20	9,911671E+20	1,353987E+21	1,353952E+21	9,911062E+20	3,706141E+20	7,924962E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925447E+18
-859	3,706166E+20	9,910658E+20	1,353905E+21	1,353951E+21	9,911502E+20	3,706782E+20	7,930898E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928772E+18
-858	3,705998E+20	9,910996E+20	1,353925E+21	1,353917E+21	9,910762E+20	3,705844E+20	7,928552E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930661E+18
-857	3,706533E+20	9,910743E+20	1,353828E+21	1,353800E+21	9,910223E+20	3,706043E+20	7,925795E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927200E+18
-856	3,705680E+20	9,909775E+20	1,353788E+21	1,353811E+21	9,910344E+20	3,706240E+20	7,932575E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930680E+18
-855	3,705913E+20	9,910166E+20	1,353789E+21	1,353757E+21	9,909442E+20	3,705330E+20	7,926918E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930247E+18
-854	3,705997E+20	9,909430E+20	1,353680E+21	1,353693E+21	9,909545E+20	3,705982E+20	7,929644E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927073E+18
-853	3,705196E+20	9,909050E+20	1,353703E+21	1,353719E+21	9,909510E+20	3,705707E+20	7,931958E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,932563E+18
-852	3,705912E+20	9,909504E+20	1,353682E+21	1,353651E+21	9,908820E+20	3,705243E+20	7,927007E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929324E+18
-851	3,705710E+20	9,908916E+20	1,353629E+21	1,353667E+21	9,909539E+20	3,706099E+20	7,931497E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928141E+18
-850	3,705353E+20	9,909495E+20	1,353732E+21	1,353719E+21	9,909365E+20	3,705475E+20	7,930382E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933006E+18
-849	3,706140E+20	9,909839E+20	1,353723E+21	1,353692E+21	9,909245E+20	3,705590E+20	7,927230E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,926351E+18
-848	3,705538E+20	9,909257E+20	1,353729E+21	1,353780E+21	9,910198E+20	3,706236E+20	7,931229E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930040E+18
-847	3,705785E+20	9,910212E+20	1,353814E+21	1,353809E+21	9,909951E+20	3,705512E+20	7,928175E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931016E+18
-846	3,706377E+20	9,910311E+20	1,353791E+21	1,353795E+21	9,910322E+20	3,706190E+20	7,926825E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925642E+18
-845	3,705710E+20	9,910237E+20	1,353859E+21	1,353879E+21	9,910796E+20	3,706341E+20	7,931629E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931625E+18
-844	3,706327E+20	9,911014E+20	1,353897E+21	1,353864E+21	9,910279E+20	3,705717E+20	7,926795E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927082E+18
-843	3,706308E+20	9,910539E+20	1,353840E+21	1,353867E+21	9,910924E+20	3,706547E+20	7,928468E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,926634E+18
-842	3,705653E+20	9,910536E+20	1,353898E+21	1,353902E+21	9,910772E+20	3,706063E+20	7,931440E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931751E+18
-841	3,706424E+20	9,910733E+20	1,353851E+21	1,353819E+21	9,910041E+20	3,705719E+20	7,924868E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927248E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-840	3,705935E+20	9,909766E+20	1,353764E+21	1,353811E+21	9,910478E+20	3,706375E+20	7,931000E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929769E+18
-839	3,705691E+20	9,910090E+20	1,353792E+21	1,353779E+21	9,909760E+20	3,705500E+20	7,929181E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931730E+18
-838	3,706215E+20	9,909835E+20	1,353709E+21	1,353678E+21	9,909236E+20	3,705707E+20	7,927112E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927219E+18
-837	3,705266E+20	9,908812E+20	1,353663E+21	1,353689E+21	9,909421E+20	3,705934E+20	7,933879E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930816E+18
-836	3,705457E+20	9,909038E+20	1,353646E+21	1,353623E+21	9,908472E+20	3,704993E+20	7,927980E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931163E+18
-835	3,705676E+20	9,908442E+20	1,353535E+21	1,353553E+21	9,908624E+20	3,705659E+20	7,930348E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927887E+18
-834	3,704891E+20	9,908172E+20	1,353574E+21	1,353587E+21	9,908593E+20	3,705411E+20	7,932823E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933731E+18
-833	3,705669E+20	9,908781E+20	1,353574E+21	1,353532E+21	9,907862E+20	3,704876E+20	7,927505E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929952E+18
-832	3,705421E+20	9,908170E+20	1,353528E+21	1,353564E+21	9,908702E+20	3,705762E+20	7,931745E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928344E+18
-831	3,704987E+20	9,908620E+20	1,353627E+21	1,353622E+21	9,908663E+20	3,705210E+20	7,930969E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933852E+18
-830	3,705839E+20	9,908979E+20	1,353619E+21	1,353600E+21	9,908590E+20	3,705345E+20	7,927835E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,926790E+18
-829	3,705281E+20	9,908524E+20	1,353624E+21	1,353678E+21	9,909508E+20	3,706012E+20	7,931874E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930654E+18
-828	3,705510E+20	9,909415E+20	1,353700E+21	1,353696E+21	9,909157E+20	3,705259E+20	7,929077E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931593E+18
-827	3,706151E+20	9,909640E+20	1,353684E+21	1,353681E+21	9,909541E+20	3,705934E+20	7,927643E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,925936E+18
-826	3,705390E+20	9,909487E+20	1,353760E+21	1,353772E+21	9,909963E+20	3,706064E+20	7,932791E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,932384E+18
-825	3,706021E+20	9,910184E+20	1,353788E+21	1,353756E+21	9,909388E+20	3,705335E+20	7,927046E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928222E+18
-824	3,706023E+20	9,909655E+20	1,353715E+21	1,353749E+21	9,910047E+20	3,706166E+20	7,928455E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927936E+18
-823	3,705368E+20	9,909594E+20	1,353764E+21	1,353771E+21	9,909873E+20	3,705737E+20	7,931789E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933164E+18
-822	3,706165E+20	9,909864E+20	1,353728E+21	1,353694E+21	9,909130E+20	3,705402E+20	7,925716E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927783E+18
-821	3,705611E+20	9,908960E+20	1,353646E+21	1,353681E+21	9,909520E+20	3,706077E+20	7,932349E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929607E+18
-820	3,705222E+20	9,909004E+20	1,353656E+21	1,353644E+21	9,908741E+20	3,705170E+20	7,930572E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931841E+18
-819	3,705771E+20	9,908736E+20	1,353563E+21	1,353541E+21	9,908301E+20	3,705371E+20	7,928270E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927611E+18
-818	3,704833E+20	9,907713E+20	1,353520E+21	1,353549E+21	9,908436E+20	3,705592E+20	7,934779E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,932109E+18
-817	3,705163E+20	9,908084E+20	1,353508E+21	1,353484E+21	9,907424E+20	3,704578E+20	7,928193E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,932675E+18
-816	3,705442E+20	9,907634E+20	1,353409E+21	1,353422E+21	9,907665E+20	3,705273E+20	7,930481E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928810E+18
-815	3,704614E+20	9,907376E+20	1,353462E+21	1,353469E+21	9,907731E+20	3,705113E+20	7,933373E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934622E+18
-814	3,705365E+20	9,907982E+20	1,353479E+21	1,353439E+21	9,907106E+20	3,704600E+20	7,928564E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930002E+18
-813	3,705067E+20	9,907342E+20	1,353425E+21	1,353466E+21	9,908005E+20	3,705515E+20	7,932572E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928553E+18
-812	3,704601E+20	9,907602E+20	1,353500E+21	1,353509E+21	9,907903E+20	3,704956E+20	7,931853E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934609E+18
-811	3,705583E+20	9,908149E+20	1,353493E+21	1,353477E+21	9,907823E+20	3,705087E+20	7,928448E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927458E+18
-810	3,705041E+20	9,907818E+20	1,353517E+21	1,353560E+21	9,908671E+20	3,705747E+20	7,932655E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931734E+18
-809	3,705318E+20	9,908800E+20	1,353606E+21	1,353586E+21	9,908261E+20	3,704919E+20	7,929519E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,932257E+18
-808	3,705902E+20	9,908968E+20	1,353590E+21	1,353581E+21	9,908725E+20	3,705585E+20	7,927805E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,926502E+18
-807	3,705067E+20	9,908649E+20	1,353655E+21	1,353674E+21	9,909249E+20	3,705770E+20	7,933125E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933375E+18
-806	3,705725E+20	9,909322E+20	1,353682E+21	1,353657E+21	9,908660E+20	3,705047E+20	7,927568E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928912E+18
-805	3,705728E+20	9,908822E+20	1,353598E+21	1,353631E+21	9,909241E+20	3,705896E+20	7,929280E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928418E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-804	3,705009E+20	9,908595E+20	1,353628E+21	1,353638E+21	9,908965E+20	3,705457E+20	7,932951E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933523E+18
-803	3,705819E+20	9,908948E+20	1,353592E+21	1,353552E+21	9,908180E+20	3,705112E+20	7,927080E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928003E+18
-802	3,705182E+20	9,907947E+20	1,353515E+21	1,353544E+21	9,908487E+20	3,705739E+20	7,933785E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930333E+18
-801	3,704844E+20	9,907934E+20	1,353515E+21	1,353505E+21	9,907660E+20	3,704734E+20	7,930983E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933115E+18
-800	3,705441E+20	9,907708E+20	1,353418E+21	1,353398E+21	9,907244E+20	3,704923E+20	7,928390E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929055E+18
-799	3,704548E+20	9,906753E+20	1,353382E+21	1,353411E+21	9,907450E+20	3,705209E+20	7,934866E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933575E+18
-798	3,704913E+20	9,907272E+20	1,353395E+21	1,353365E+21	9,906528E+20	3,704257E+20	7,928999E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933254E+18
-797	3,705132E+20	9,906886E+20	1,353308E+21	1,353311E+21	9,906832E+20	3,705001E+20	7,931562E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928678E+18
-796	3,704188E+20	9,906365E+20	1,353343E+21	1,353359E+21	9,906929E+20	3,704854E+20	7,934538E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934744E+18
-795	3,704977E+20	9,907004E+20	1,353350E+21	1,353323E+21	9,906391E+20	3,704352E+20	7,929524E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930392E+18
-794	3,704717E+20	9,906413E+20	1,353303E+21	1,353346E+21	9,907189E+20	3,705240E+20	7,933144E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929876E+18
-793	3,704406E+20	9,906805E+20	1,353380E+21	1,353387E+21	9,907009E+20	3,704608E+20	7,931958E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935843E+18
-792	3,705423E+20	9,907535E+20	1,353391E+21	1,353365E+21	9,906969E+20	3,704747E+20	7,928469E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928334E+18
-791	3,704846E+20	9,907223E+20	1,353430E+21	1,353459E+21	9,907873E+20	3,705458E+20	7,933043E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,932463E+18
-790	3,705051E+20	9,908129E+20	1,353529E+21	1,353505E+21	9,907576E+20	3,704666E+20	7,930504E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,932295E+18
-789	3,705575E+20	9,908207E+20	1,353499E+21	1,353492E+21	9,908067E+20	3,705334E+20	7,928494E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,926806E+18
-788	3,704690E+20	9,907616E+20	1,353526E+21	1,353558E+21	9,908489E+20	3,705523E+20	7,934091E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933860E+18
-787	3,705406E+20	9,908386E+20	1,353545E+21	1,353526E+21	9,907856E+20	3,704790E+20	7,928542E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929400E+18
-786	3,705382E+20	9,907918E+20	1,353472E+21	1,353494E+21	9,908266E+20	3,705603E+20	7,930588E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929237E+18
-785	3,704693E+20	9,907656E+20	1,353498E+21	1,353498E+21	9,907884E+20	3,705071E+20	7,933724E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934074E+18
-784	3,705446E+20	9,907969E+20	1,353461E+21	1,353418E+21	9,907128E+20	3,704686E+20	7,927500E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929009E+18
-783	3,704814E+20	9,906892E+20	1,353378E+21	1,353409E+21	9,907494E+20	3,705325E+20	7,933880E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931731E+18
-782	3,704538E+20	9,906958E+20	1,353387E+21	1,353377E+21	9,906711E+20	3,704361E+20	7,931259E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934347E+18
-781	3,705165E+20	9,906848E+20	1,353294E+21	1,353270E+21	9,906319E+20	3,704578E+20	7,928974E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929780E+18
-780	3,704214E+20	9,905785E+20	1,353249E+21	1,353279E+21	9,906538E+20	3,704918E+20	7,935853E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933887E+18
-779	3,704568E+20	9,906394E+20	1,353270E+21	1,353238E+21	9,905682E+20	3,704006E+20	7,930494E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933360E+18
-778	3,704703E+20	9,905910E+20	1,353191E+21	1,353193E+21	9,905958E+20	3,704726E+20	7,932937E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929369E+18
-777	3,703856E+20	9,905345E+20	1,353211E+21	1,353235E+21	9,906024E+20	3,704502E+20	7,934906E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935813E+18
-776	3,704702E+20	9,906107E+20	1,353220E+21	1,353194E+21	9,905475E+20	3,703990E+20	7,929587E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931684E+18
-775	3,704519E+20	9,905663E+20	1,353189E+21	1,353227E+21	9,906319E+20	3,704906E+20	7,932999E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931105E+18
-774	3,704237E+20	9,906239E+20	1,353297E+21	1,353288E+21	9,906225E+20	3,704339E+20	7,932692E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936087E+18
-773	3,705172E+20	9,906963E+20	1,353317E+21	1,353279E+21	9,906263E+20	3,704505E+20	7,929391E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,927950E+18
-772	3,704463E+20	9,906358E+20	1,353333E+21	1,353371E+21	9,907225E+20	3,705241E+20	7,934119E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,932388E+18
-771	3,704688E+20	9,907241E+20	1,353414E+21	1,353404E+21	9,906973E+20	3,704470E+20	7,931635E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,932453E+18
-770	3,705204E+20	9,907274E+20	1,353381E+21	1,353378E+21	9,907292E+20	3,705085E+20	7,929260E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928110E+18
-769	3,704460E+20	9,906702E+20	1,353393E+21	1,353427E+21	9,907559E+20	3,705177E+20	7,934415E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934876E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-768	3,705153E+20	9,907569E+20	1,353420E+21	1,353391E+21	9,906851E+20	3,704415E+20	7,928743E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930569E+18
-767	3,705107E+20	9,907082E+20	1,353355E+21	1,353364E+21	9,907235E+20	3,705214E+20	7,930967E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930294E+18
-766	3,704378E+20	9,906771E+20	1,353386E+21	1,353380E+21	9,906922E+20	3,704705E+20	7,934417E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934725E+18
-765	3,705095E+20	9,907021E+20	1,353336E+21	1,353295E+21	9,906202E+20	3,704322E+20	7,928099E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929775E+18
-764	3,704439E+20	9,905785E+20	1,353230E+21	1,353270E+21	9,906532E+20	3,704987E+20	7,934656E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,932457E+18
-763	3,704222E+20	9,906001E+20	1,353243E+21	1,353236E+21	9,905804E+20	3,704080E+20	7,932424E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934857E+18
-762	3,704789E+20	9,905926E+20	1,353171E+21	1,353137E+21	9,905339E+20	3,704286E+20	7,930501E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930515E+18
-761	3,703874E+20	9,904798E+20	1,353119E+21	1,353147E+21	9,905531E+20	3,704567E+20	7,936749E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934134E+18
-760	3,704160E+20	9,905393E+20	1,353142E+21	1,353114E+21	9,904738E+20	3,703643E+20	7,931074E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934290E+18
-759	3,704350E+20	9,904909E+20	1,353062E+21	1,353068E+21	9,905041E+20	3,704365E+20	7,933048E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930530E+18
-758	3,703594E+20	9,904488E+20	1,353095E+21	1,353118E+21	9,905166E+20	3,704189E+20	7,935221E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936721E+18
-757	3,704477E+20	9,905409E+20	1,353117E+21	1,353087E+21	9,904684E+20	3,703699E+20	7,930077E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,932081E+18
-756	3,704257E+20	9,904918E+20	1,353084E+21	1,353119E+21	9,905549E+20	3,704664E+20	7,933843E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931222E+18
-755	3,703957E+20	9,905562E+20	1,353201E+21	1,353192E+21	9,905561E+20	3,704154E+20	7,934226E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935879E+18
-754	3,704787E+20	9,906148E+20	1,353225E+21	1,353190E+21	9,905568E+20	3,704276E+20	7,930591E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,928674E+18
-753	3,704170E+20	9,905431E+20	1,353212E+21	1,353262E+21	9,906438E+20	3,704930E+20	7,934444E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933294E+18
-752	3,704414E+20	9,906379E+20	1,353290E+21	1,353282E+21	9,906100E+20	3,704129E+20	7,931614E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933847E+18
-751	3,704989E+20	9,906487E+20	1,353262E+21	1,353252E+21	9,906358E+20	3,704726E+20	7,929099E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929557E+18
-750	3,704262E+20	9,906015E+20	1,353289E+21	1,353310E+21	9,906642E+20	3,704860E+20	7,935088E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935354E+18
-749	3,704850E+20	9,906806E+20	1,353317E+21	1,353280E+21	9,905960E+20	3,704092E+20	7,929501E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930703E+18
-748	3,704696E+20	9,906050E+20	1,353227E+21	1,353246E+21	9,906354E+20	3,704892E+20	7,931935E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930590E+18
-747	3,703994E+20	9,905756E+20	1,353246E+21	1,353251E+21	9,906076E+20	3,704425E+20	7,935577E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935100E+18
-746	3,704688E+20	9,905981E+20	1,353202E+21	1,353162E+21	9,905249E+20	3,704009E+20	7,929224E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931096E+18
-745	3,704153E+20	9,904792E+20	1,353085E+21	1,353126E+21	9,905494E+20	3,704614E+20	7,935328E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933215E+18
-744	3,703901E+20	9,905104E+20	1,353110E+21	1,353092E+21	9,904738E+20	3,703721E+20	7,933149E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935884E+18
-743	3,704435E+20	9,904974E+20	1,353047E+21	1,353008E+21	9,904317E+20	3,703914E+20	7,931244E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931454E+18
-742	3,703533E+20	9,903849E+20	1,352998E+21	1,353030E+21	9,904611E+20	3,704215E+20	7,937367E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934825E+18
-741	3,703803E+20	9,904411E+20	1,353013E+21	1,352992E+21	9,903857E+20	3,703301E+20	7,931558E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935008E+18
-740	3,704012E+20	9,903896E+20	1,352924E+21	1,352939E+21	9,904149E+20	3,704049E+20	7,933575E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931120E+18
-739	3,703347E+20	9,903727E+20	1,352972E+21	1,352995E+21	9,904358E+20	3,703954E+20	7,936376E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936916E+18
-738	3,704158E+20	9,904699E+20	1,353021E+21	1,352982E+21	9,903885E+20	3,703470E+20	7,931534E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,932579E+18
-737	3,703984E+20	9,904156E+20	1,352983E+21	1,353018E+21	9,904746E+20	3,704362E+20	7,934463E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931541E+18
-736	3,703637E+20	9,904768E+20	1,353097E+21	1,353093E+21	9,904801E+20	3,703853E+20	7,934509E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936955E+18
-735	3,704508E+20	9,905314E+20	1,353117E+21	1,353089E+21	9,904803E+20	3,703946E+20	7,930275E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930162E+18
-734	3,703984E+20	9,904713E+20	1,353107E+21	1,353156E+21	9,905653E+20	3,704622E+20	7,934473E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934317E+18
-733	3,704199E+20	9,905690E+20	1,353186E+21	1,353174E+21	9,905305E+20	3,703834E+20	7,931966E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934220E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-732	3,704690E+20	9,905685E+20	1,353148E+21	1,353135E+21	9,905501E+20	3,704457E+20	7,930103E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,929735E+18
-731	3,703933E+20	9,905203E+20	1,353174E+21	1,353196E+21	9,905826E+20	3,704630E+20	7,936902E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935088E+18
-730	3,704401E+20	9,905821E+20	1,353198E+21	1,353167E+21	9,905104E+20	3,703818E+20	7,930975E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931645E+18
-729	3,704348E+20	9,904967E+20	1,353078E+21	1,353107E+21	9,905357E+20	3,704512E+20	7,932617E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931496E+18
-728	3,703660E+20	9,904764E+20	1,353101E+21	1,353106E+21	9,905008E+20	3,704032E+20	7,935846E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936506E+18
-727	3,704393E+20	9,905055E+20	1,353067E+21	1,353022E+21	9,904166E+20	3,703598E+20	7,929563E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,932448E+18
-726	3,703860E+20	9,903948E+20	1,352964E+21	1,352994E+21	9,904468E+20	3,704257E+20	7,936247E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933627E+18
-725	3,703508E+20	9,904154E+20	1,352991E+21	1,352974E+21	9,903805E+20	3,703375E+20	7,933989E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936160E+18
-724	3,703979E+20	9,903826E+20	1,352903E+21	1,352880E+21	9,903419E+20	3,703590E+20	7,932218E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931947E+18
-723	3,703168E+20	9,902810E+20	1,352850E+21	1,352897E+21	9,903765E+20	3,703942E+20	7,938387E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935299E+18
-722	3,703438E+20	9,903448E+20	1,352883E+21	1,352865E+21	9,902964E+20	3,703011E+20	7,932559E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936294E+18
-721	3,703786E+20	9,903062E+20	1,352795E+21	1,352808E+21	9,903199E+20	3,703694E+20	7,933969E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931767E+18
-720	3,703105E+20	9,903066E+20	1,352870E+21	1,352878E+21	9,903429E+20	3,703632E+20	7,936800E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937908E+18
-719	3,703888E+20	9,903987E+20	1,352931E+21	1,352887E+21	9,903073E+20	3,703144E+20	7,931970E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933477E+18
-718	3,703733E+20	9,903460E+20	1,352892E+21	1,352929E+21	9,904046E+20	3,704071E+20	7,934735E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,932343E+18
-717	3,703369E+20	9,903995E+20	1,352994E+21	1,352997E+21	9,904121E+20	3,703578E+20	7,934769E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937532E+18
-716	3,704216E+20	9,904459E+20	1,352998E+21	1,352979E+21	9,904066E+20	3,703688E+20	7,930726E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930704E+18
-715	3,703749E+20	9,904008E+20	1,352991E+21	1,353043E+21	9,904917E+20	3,704421E+20	7,935859E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934218E+18
-714	3,703831E+20	9,904891E+20	1,353083E+21	1,353068E+21	9,904507E+20	3,703617E+20	7,933642E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934531E+18
-713	3,704340E+20	9,904771E+20	1,353029E+21	1,353019E+21	9,904599E+20	3,704123E+20	7,931084E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,930052E+18
-712	3,703556E+20	9,904270E+20	1,353048E+21	1,353069E+21	9,904862E+20	3,704270E+20	7,937427E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936184E+18
-711	3,704060E+20	9,904826E+20	1,353065E+21	1,353038E+21	9,904133E+20	3,703425E+20	7,931004E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933316E+18
-710	3,704106E+20	9,904125E+20	1,352951E+21	1,352976E+21	9,904373E+20	3,704115E+20	7,932819E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,932789E+18
-709	3,703396E+20	9,903919E+20	1,352975E+21	1,352975E+21	9,904044E+20	3,703668E+20	7,936228E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937104E+18
-708	3,704022E+20	9,904082E+20	1,352935E+21	1,352890E+21	9,903204E+20	3,703273E+20	7,930654E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,932973E+18
-707	3,703479E+20	9,902968E+20	1,352830E+21	1,352867E+21	9,903573E+20	3,703981E+20	7,938005E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933572E+18
-706	3,703020E+20	9,903008E+20	1,352852E+21	1,352847E+21	9,902902E+20	3,703080E+20	7,935359E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937224E+18
-705	3,703615E+20	9,902692E+20	1,352744E+21	1,352731E+21	9,902380E+20	3,703197E+20	7,932814E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,932908E+18
-704	3,702879E+20	9,901903E+20	1,352710E+21	1,352747E+21	9,902672E+20	3,703548E+20	7,938444E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936717E+18
-703	3,703199E+20	9,902670E+20	1,352766E+21	1,352737E+21	9,901978E+20	3,702641E+20	7,932889E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937477E+18
-702	3,703570E+20	9,902452E+20	1,352704E+21	1,352702E+21	9,902332E+20	3,703363E+20	7,934516E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,932215E+18
-701	3,702809E+20	9,902354E+20	1,352783E+21	1,352791E+21	9,902719E+20	3,703342E+20	7,937315E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938060E+18
-700	3,703516E+20	9,903083E+20	1,352822E+21	1,352795E+21	9,902444E+20	3,702905E+20	7,932723E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933784E+18
-699	3,703430E+20	9,902629E+20	1,352778E+21	1,352830E+21	9,903434E+20	3,703885E+20	7,935767E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,932502E+18
-698	3,703031E+20	9,903141E+20	1,352885E+21	1,352895E+21	9,903439E+20	3,703377E+20	7,935928E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938264E+18
-697	3,703957E+20	9,903644E+20	1,352875E+21	1,352854E+21	9,903212E+20	3,703400E+20	7,931473E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931091E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\ominus$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-696	3,703469E+20	9,903290E+20	1,352884E+21	1,352919E+21	9,903965E+20	3,704107E+20	7,936539E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935117E+18
-695	3,703521E+20	9,904052E+20	1,352976E+21	1,352957E+21	9,903599E+20	3,703257E+20	7,934118E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935704E+18
-694	3,704065E+20	9,903944E+20	1,352914E+21	1,352903E+21	9,903700E+20	3,703739E+20	7,931335E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931320E+18
-693	3,703278E+20	9,903387E+20	1,352925E+21	1,352947E+21	9,903963E+20	3,703886E+20	7,937415E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937068E+18
-692	3,703750E+20	9,903883E+20	1,352930E+21	1,352906E+21	9,903216E+20	3,703088E+20	7,931494E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934175E+18
-691	3,703813E+20	9,903280E+20	1,352822E+21	1,352846E+21	9,903487E+20	3,703853E+20	7,934438E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,932781E+18
-690	3,702961E+20	9,902929E+20	1,352853E+21	1,352854E+21	9,903149E+20	3,703407E+20	7,937943E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937467E+18
-689	3,703580E+20	9,902944E+20	1,352788E+21	1,352753E+21	9,902212E+20	3,702914E+20	7,931792E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933535E+18
-688	3,703059E+20	9,901879E+20	1,352682E+21	1,352718E+21	9,902506E+20	3,703592E+20	7,938448E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934838E+18
-687	3,702675E+20	9,901924E+20	1,352706E+21	1,352703E+21	9,901845E+20	3,702663E+20	7,935378E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938901E+18
-686	3,703384E+20	9,901872E+20	1,352617E+21	1,352594E+21	9,901354E+20	3,702788E+20	7,933018E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934060E+18
-685	3,702654E+20	9,901185E+20	1,352601E+21	1,352626E+21	9,901744E+20	3,703189E+20	7,938661E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937130E+18
-684	3,702880E+20	9,901877E+20	1,352661E+21	1,352630E+21	9,901181E+20	3,702380E+20	7,934053E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937708E+18
-683	3,703243E+20	9,901660E+20	1,352605E+21	1,352612E+21	9,901688E+20	3,703163E+20	7,936084E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,932061E+18
-682	3,702405E+20	9,901404E+20	1,352675E+21	1,352699E+21	9,902103E+20	3,703151E+20	7,938576E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938735E+18
-681	3,703194E+20	9,902115E+20	1,352691E+21	1,352676E+21	9,901669E+20	3,702619E+20	7,933283E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934422E+18
-680	3,703179E+20	9,901874E+20	1,352660E+21	1,352699E+21	9,902510E+20	3,703569E+20	7,935864E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933646E+18
-679	3,702795E+20	9,902381E+20	1,352776E+21	1,352776E+21	9,902552E+20	3,703057E+20	7,936365E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939161E+18
-678	3,703728E+20	9,903010E+20	1,352783E+21	1,352748E+21	9,902346E+20	3,703060E+20	7,931888E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931831E+18
-677	3,703199E+20	9,902543E+20	1,352787E+21	1,352819E+21	9,903153E+20	3,703755E+20	7,936702E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935659E+18
-676	3,703184E+20	9,903132E+20	1,352857E+21	1,352848E+21	9,902839E+20	3,702968E+20	7,934605E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936484E+18
-675	3,703785E+20	9,903083E+20	1,352794E+21	1,352790E+21	9,902932E+20	3,703474E+20	7,932337E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931797E+18
-674	3,702937E+20	9,902469E+20	1,352804E+21	1,352830E+21	9,903151E+20	3,703626E+20	7,938535E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937660E+18
-673	3,703410E+20	9,902927E+20	1,352792E+21	1,352766E+21	9,902248E+20	3,702765E+20	7,932551E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934635E+18
-672	3,703432E+20	9,902356E+20	1,352696E+21	1,352702E+21	9,902401E+20	3,703502E+20	7,935533E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933634E+18
-671	3,702556E+20	9,901807E+20	1,352715E+21	1,352720E+21	9,902133E+20	3,703022E+20	7,938658E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938621E+18
-670	3,703225E+20	9,901904E+20	1,352644E+21	1,352609E+21	9,901166E+20	3,702496E+20	7,932230E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935010E+18
-669	3,702761E+20	9,900883E+20	1,352540E+21	1,352573E+21	9,901438E+20	3,703154E+20	7,938379E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935732E+18
-668	3,702370E+20	9,900970E+20	1,352567E+21	1,352562E+21	9,900850E+20	3,702315E+20	7,935935E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939669E+18
-667	3,703097E+20	9,901068E+20	1,352502E+21	1,352475E+21	9,900488E+20	3,702524E+20	7,934666E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933858E+18
-666	3,702256E+20	9,900320E+20	1,352501E+21	1,352528E+21	9,900990E+20	3,702958E+20	7,940125E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937283E+18
-665	3,702484E+20	9,900889E+20	1,352537E+21	1,352517E+21	9,900408E+20	3,702108E+20	7,935231E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938025E+18
-664	3,702878E+20	9,900741E+20	1,352485E+21	1,352491E+21	9,900856E+20	3,702868E+20	7,936344E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933252E+18
-663	3,702136E+20	9,900481E+20	1,352553E+21	1,352583E+21	9,901277E+20	3,702821E+20	7,938482E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940142E+18
-662	3,703012E+20	9,901426E+20	1,352581E+21	1,352558E+21	9,900806E+20	3,702274E+20	7,933229E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935534E+18
-661	3,703004E+20	9,901267E+20	1,352566E+21	1,352589E+21	9,901652E+20	3,703233E+20	7,935775E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934151E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-660	3,702532E+20	9,901670E+20	1,352681E+21	1,352675E+21	9,901781E+20	3,702803E+20	7,937305E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939425E+18
-659	3,703432E+20	9,902242E+20	1,352687E+21	1,352659E+21	9,901679E+20	3,702841E+20	7,933321E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,931880E+18
-658	3,702838E+20	9,901639E+20	1,352679E+21	1,352721E+21	9,902472E+20	3,703522E+20	7,937757E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936331E+18
-657	3,702863E+20	9,902159E+20	1,352721E+21	1,352717E+21	9,901977E+20	3,702669E+20	7,935340E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937088E+18
-656	3,703486E+20	9,902253E+20	1,352670E+21	1,352650E+21	9,901929E+20	3,703137E+20	7,932823E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,932897E+18
-655	3,702625E+20	9,901539E+20	1,352680E+21	1,352699E+21	9,902164E+20	3,703278E+20	7,939290E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938361E+18
-654	3,703064E+20	9,902030E+20	1,352671E+21	1,352637E+21	9,901240E+20	3,702384E+20	7,933268E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935597E+18
-653	3,703059E+20	9,901336E+20	1,352565E+21	1,352571E+21	9,901395E+20	3,703092E+20	7,935922E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934357E+18
-652	3,702167E+20	9,900667E+20	1,352564E+21	1,352579E+21	9,901171E+20	3,702674E+20	7,939166E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939584E+18
-651	3,702903E+20	9,900887E+20	1,352503E+21	1,352475E+21	9,900222E+20	3,702175E+20	7,933378E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935664E+18
-650	3,702428E+20	9,899932E+20	1,352409E+21	1,352443E+21	9,900514E+20	3,702843E+20	7,939350E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936242E+18
-649	3,702036E+20	9,900044E+20	1,352434E+21	1,352423E+21	9,899868E+20	3,702004E+20	7,937092E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940068E+18
-648	3,702740E+20	9,900234E+20	1,352392E+21	1,352349E+21	9,899497E+20	3,702192E+20	7,935659E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934647E+18
-647	3,701897E+20	9,899319E+20	1,352381E+21	1,352416E+21	9,900145E+20	3,702626E+20	7,940612E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938317E+18
-646	3,702191E+20	9,900017E+20	1,352415E+21	1,352399E+21	9,899568E+20	3,701764E+20	7,935397E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939421E+18
-645	3,702655E+20	9,899943E+20	1,352369E+21	1,352370E+21	9,899971E+20	3,702505E+20	7,935967E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934091E+18
-644	3,701916E+20	9,899718E+20	1,352439E+21	1,352467E+21	9,900474E+20	3,702557E+20	7,938946E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940588E+18
-643	3,702764E+20	9,900757E+20	1,352489E+21	1,352463E+21	9,900087E+20	3,702072E+20	7,934755E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935199E+18
-642	3,702658E+20	9,900513E+20	1,352480E+21	1,352505E+21	9,900985E+20	3,703019E+20	7,936999E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934184E+18
-641	3,702168E+20	9,900768E+20	1,352566E+21	1,352569E+21	9,901041E+20	3,702559E+20	7,938472E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939645E+18
-640	3,703094E+20	9,901391E+20	1,352574E+21	1,352540E+21	9,900830E+20	3,702545E+20	7,933733E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933028E+18
-639	3,702561E+20	9,900722E+20	1,352556E+21	1,352603E+21	9,901615E+20	3,703187E+20	7,937996E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937485E+18
-638	3,702633E+20	9,901398E+20	1,352600E+21	1,352589E+21	9,901046E+20	3,702315E+20	7,935608E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938212E+18
-637	3,703221E+20	9,901466E+20	1,352558E+21	1,352525E+21	9,900936E+20	3,702758E+20	7,933085E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933641E+18
-636	3,702287E+20	9,900573E+20	1,352553E+21	1,352575E+21	9,901239E+20	3,702962E+20	7,940283E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938862E+18
-635	3,702673E+20	9,900964E+20	1,352539E+21	1,352518E+21	9,900368E+20	3,702093E+20	7,934728E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936157E+18
-634	3,702652E+20	9,900227E+20	1,352424E+21	1,352440E+21	9,900462E+20	3,702760E+20	7,936885E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935163E+18
-633	3,701817E+20	9,899582E+20	1,352403E+21	1,352418E+21	9,900067E+20	3,702310E+20	7,939969E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940222E+18
-632	3,702568E+20	9,899986E+20	1,352366E+21	1,352319E+21	9,899087E+20	3,701800E+20	7,934212E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936599E+18
-631	3,702094E+20	9,899005E+20	1,352285E+21	1,352313E+21	9,899501E+20	3,702470E+20	7,940076E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936915E+18
-630	3,701705E+20	9,899188E+20	1,352317E+21	1,352303E+21	9,898924E+20	3,701645E+20	7,937756E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941107E+18
-629	3,702401E+20	9,899308E+20	1,352276E+21	1,352237E+21	9,898631E+20	3,701824E+20	7,935793E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935465E+18
-628	3,701588E+20	9,898357E+20	1,352253E+21	1,352301E+21	9,899360E+20	3,702341E+20	7,940853E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939084E+18
-627	3,701910E+20	9,899164E+20	1,352301E+21	1,352294E+21	9,898831E+20	3,701530E+20	7,936453E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939722E+18
-626	3,702366E+20	9,899182E+20	1,352265E+21	1,352268E+21	9,899236E+20	3,702272E+20	7,936807E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934223E+18
-625	3,701622E+20	9,898951E+20	1,352326E+21	1,352349E+21	9,899640E+20	3,702329E+20	7,940268E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940598E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-624	3,702435E+20	9,900028E+20	1,352393E+21	1,352357E+21	9,899260E+20	3,701810E+20	7,935828E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935853E+18
-623	3,702347E+20	9,899634E+20	1,352371E+21	1,352407E+21	9,900231E+20	3,702709E+20	7,937436E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935364E+18
-622	3,701933E+20	9,899990E+20	1,352449E+21	1,352454E+21	9,900204E+20	3,702220E+20	7,938587E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941085E+18
-621	3,702888E+20	9,900647E+20	1,352463E+21	1,352423E+21	9,899914E+20	3,702157E+20	7,933317E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934138E+18
-620	3,702332E+20	9,899948E+20	1,352440E+21	1,352484E+21	9,900752E+20	3,702890E+20	7,938532E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937947E+18
-619	3,702315E+20	9,900587E+20	1,352497E+21	1,352485E+21	9,900234E+20	3,702072E+20	7,937161E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938179E+18
-618	3,702808E+20	9,900504E+20	1,352442E+21	1,352417E+21	9,900113E+20	3,702484E+20	7,934411E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,933930E+18
-617	3,701858E+20	9,899438E+20	1,352399E+21	1,352434E+21	9,900289E+20	3,702660E+20	7,941542E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939301E+18
-616	3,702276E+20	9,899907E+20	1,352392E+21	1,352366E+21	9,899290E+20	3,701724E+20	7,935333E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937508E+18
-615	3,702324E+20	9,899159E+20	1,352274E+21	1,352293E+21	9,899371E+20	3,702337E+20	7,937270E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936327E+18
-614	3,701551E+20	9,898742E+20	1,352267E+21	1,352270E+21	9,898954E+20	3,701897E+20	7,940281E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941363E+18
-613	3,702268E+20	9,899167E+20	1,352251E+21	1,352190E+21	9,898014E+20	3,701386E+20	7,934705E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937308E+18
-612	3,701739E+20	9,898060E+20	1,352164E+21	1,352198E+21	9,898622E+20	3,702156E+20	7,941014E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937356E+18
-611	3,701316E+20	9,898178E+20	1,352198E+21	1,352199E+21	9,898174E+20	3,701405E+20	7,939228E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941645E+18
-610	3,702023E+20	9,898295E+20	1,352148E+21	1,352124E+21	9,897863E+20	3,701557E+20	7,936659E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936006E+18
-609	3,701273E+20	9,897399E+20	1,352109E+21	1,352163E+21	9,898455E+20	3,702065E+20	7,941660E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939440E+18
-608	3,701602E+20	9,898385E+20	1,352184E+21	1,352164E+21	9,897898E+20	3,701242E+20	7,937363E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940289E+18
-607	3,702057E+20	9,898381E+20	1,352161E+21	1,352161E+21	9,898383E+20	3,701958E+20	7,937500E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934784E+18
-606	3,701356E+20	9,898250E+20	1,352224E+21	1,352244E+21	9,898809E+20	3,702006E+20	7,940767E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941666E+18
-605	3,702172E+20	9,899274E+20	1,352293E+21	1,352258E+21	9,898475E+20	3,701464E+20	7,935712E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936951E+18
-604	3,702126E+20	9,898861E+20	1,352261E+21	1,352304E+21	9,899503E+20	3,702417E+20	7,937413E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936425E+18
-603	3,701711E+20	9,899248E+20	1,352347E+21	1,352358E+21	9,899504E+20	3,701988E+20	7,939508E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941465E+18
-602	3,702602E+20	9,899912E+20	1,352362E+21	1,352324E+21	9,899180E+20	3,701910E+20	7,934109E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934382E+18
-601	3,701994E+20	9,899097E+20	1,352316E+21	1,352357E+21	9,899846E+20	3,702637E+20	7,940095E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937850E+18
-600	3,701888E+20	9,899622E+20	1,352373E+21	1,352359E+21	9,899303E+20	3,701777E+20	7,938469E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938808E+18
-599	3,702393E+20	9,899380E+20	1,352299E+21	1,352288E+21	9,899167E+20	3,702116E+20	7,935197E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935231E+18
-598	3,701563E+20	9,898460E+20	1,352248E+21	1,352280E+21	9,899175E+20	3,702239E+20	7,941843E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940753E+18
-597	3,702001E+20	9,899001E+20	1,352253E+21	1,352218E+21	9,898146E+20	3,701268E+20	7,935241E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938730E+18
-596	3,702042E+20	9,898292E+20	1,352144E+21	1,352156E+21	9,898338E+20	3,701960E+20	7,937936E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936837E+18
-595	3,701187E+20	9,897839E+20	1,352157E+21	1,352160E+21	9,898058E+20	3,701609E+20	7,941783E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941475E+18
-594	3,701827E+20	9,898156E+20	1,352133E+21	1,352086E+21	9,897224E+20	3,701099E+20	7,935991E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937640E+18
-593	3,701305E+20	9,896940E+20	1,352015E+21	1,352063E+21	9,897746E+20	3,701881E+20	7,942180E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937786E+18
-592	3,700929E+20	9,897148E+20	1,352058E+21	1,352061E+21	9,897250E+20	3,701102E+20	7,939961E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942756E+18
-591	3,701709E+20	9,897316E+20	1,352010E+21	1,351994E+21	9,896946E+20	3,701210E+20	7,937090E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937081E+18
-590	3,701068E+20	9,896692E+20	1,351987E+21	1,352028E+21	9,897467E+20	3,701706E+20	7,941860E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940570E+18
-589	3,701367E+20	9,897715E+20	1,352088E+21	1,352053E+21	9,896968E+20	3,700872E+20	7,937607E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941160E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-588	3,701805E+20	9,897645E+20	1,352064E+21	1,352066E+21	9,897640E+20	3,701656E+20	7,937904E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935531E+18
-587	3,701088E+20	9,897496E+20	1,352133E+21	1,352161E+21	9,898175E+20	3,701778E+20	7,941712E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942357E+18
-586	3,701905E+20	9,898514E+20	1,352191E+21	1,352165E+21	9,897821E+20	3,701222E+20	7,936324E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937299E+18
-585	3,701846E+20	9,898070E+20	1,352139E+21	1,352183E+21	9,898703E+20	3,702183E+20	7,938399E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936491E+18
-584	3,701382E+20	9,898486E+20	1,352240E+21	1,352240E+21	9,898662E+20	3,701741E+20	7,940730E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941580E+18
-583	3,702204E+20	9,898977E+20	1,352246E+21	1,352213E+21	9,898335E+20	3,701607E+20	7,935165E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,934971E+18
-582	3,701651E+20	9,898181E+20	1,352187E+21	1,352229E+21	9,898899E+20	3,702282E+20	7,940816E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938931E+18
-581	3,701547E+20	9,898633E+20	1,352239E+21	1,352227E+21	9,898301E+20	3,701365E+20	7,938456E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940163E+18
-580	3,702100E+20	9,898400E+20	1,352158E+21	1,352150E+21	9,898175E+20	3,701718E+20	7,935390E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936445E+18
-579	3,701277E+20	9,897567E+20	1,352123E+21	1,352153E+21	9,898215E+20	3,701898E+20	7,942712E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941323E+18
-578	3,701666E+20	9,898128E+20	1,352132E+21	1,352094E+21	9,897221E+20	3,700947E+20	7,936199E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939094E+18
-577	3,701640E+20	9,897308E+20	1,352009E+21	1,352019E+21	9,897346E+20	3,701656E+20	7,939589E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936988E+18
-576	3,700742E+20	9,896770E+20	1,352023E+21	1,352030E+21	9,897132E+20	3,701301E+20	7,943039E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942298E+18
-575	3,701397E+20	9,896976E+20	1,351983E+21	1,351954E+21	9,896317E+20	3,700750E+20	7,936815E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939118E+18
-574	3,701031E+20	9,895980E+20	1,351863E+21	1,351908E+21	9,896679E+20	3,701481E+20	7,942289E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939258E+18
-573	3,700683E+20	9,896293E+20	1,351928E+21	1,351921E+21	9,896190E+20	3,700682E+20	7,939802E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943885E+18
-572	3,701467E+20	9,896566E+20	1,351898E+21	1,351873E+21	9,896029E+20	3,700865E+20	7,937510E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937578E+18
-571	3,700784E+20	9,895976E+20	1,351901E+21	1,351936E+21	9,896696E+20	3,701449E+20	7,942969E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940767E+18
-570	3,701036E+20	9,896933E+20	1,351996E+21	1,351971E+21	9,896357E+20	3,700648E+20	7,938629E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941302E+18
-569	3,701474E+20	9,896797E+20	1,351950E+21	1,351959E+21	9,896936E+20	3,701434E+20	7,938857E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,935841E+18
-568	3,700784E+20	9,896687E+20	1,352023E+21	1,352052E+21	9,897450E+20	3,701544E+20	7,942481E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942914E+18
-567	3,701601E+20	9,897675E+20	1,352078E+21	1,352059E+21	9,897096E+20	3,700949E+20	7,936939E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938021E+18
-566	3,701616E+20	9,897386E+20	1,352027E+21	1,352057E+21	9,897791E+20	3,701866E+20	7,938924E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937323E+18
-565	3,701084E+20	9,897677E+20	1,352134E+21	1,352127E+21	9,897744E+20	3,701382E+20	7,941158E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942330E+18
-564	3,701875E+20	9,898052E+20	1,352127E+21	1,352100E+21	9,897500E+20	3,701268E+20	7,935614E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936112E+18
-563	3,701342E+20	9,897240E+20	1,352066E+21	1,352111E+21	9,898032E+20	3,701960E+20	7,941593E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939984E+18
-562	3,701258E+20	9,897710E+20	1,352109E+21	1,352099E+21	9,897396E+20	3,701028E+20	7,938863E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940882E+18
-561	3,701782E+20	9,897477E+20	1,352017E+21	1,352002E+21	9,897131E+20	3,701379E+20	7,936489E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936796E+18
-560	3,700907E+20	9,896668E+20	1,351998E+21	1,352016E+21	9,897217E+20	3,701573E+20	7,943932E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941520E+18
-559	3,701219E+20	9,897058E+20	1,352001E+21	1,351970E+21	9,896300E+20	3,700610E+20	7,937441E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940014E+18
-558	3,701263E+20	9,896270E+20	1,351866E+21	1,351877E+21	9,896333E+20	3,701277E+20	7,940363E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938294E+18
-557	3,700395E+20	9,895693E+20	1,351880E+21	1,351891E+21	9,896103E+20	3,700882E+20	7,942964E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943773E+18
-556	3,701103E+20	9,895972E+20	1,351840E+21	1,351815E+21	9,895344E+20	3,700369E+20	7,936974E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940382E+18
-555	3,700770E+20	9,895152E+20	1,351747E+21	1,351783E+21	9,895747E+20	3,701157E+20	7,942932E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939781E+18
-554	3,700400E+20	9,895533E+20	1,351822E+21	1,351806E+21	9,895332E+20	3,700400E+20	7,940756E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943806E+18
-553	3,701095E+20	9,895711E+20	1,351786E+21	1,351758E+21	9,895182E+20	3,700614E+20	7,939149E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937377E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-552	3,700408E+20	9,895104E+20	1,351794E+21	1,351835E+21	9,895980E+20	3,701206E+20	7,944086E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941255E+18
-551	3,700681E+20	9,895975E+20	1,351876E+21	1,351867E+21	9,895671E+20	3,700397E+20	7,939557E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942353E+18
-550	3,701256E+20	9,896034E+20	1,351831E+21	1,351834E+21	9,896070E+20	3,701110E+20	7,938935E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937040E+18
-549	3,700575E+20	9,895971E+20	1,351918E+21	1,351936E+21	9,896561E+20	3,701190E+20	7,942369E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943696E+18
-548	3,701339E+20	9,896942E+20	1,351977E+21	1,351952E+21	9,896288E+20	3,700637E+20	7,937263E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938568E+18
-547	3,701307E+20	9,896616E+20	1,351938E+21	1,351961E+21	9,897017E+20	3,701588E+20	7,939770E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937897E+18
-546	3,700760E+20	9,896777E+20	1,352022E+21	1,352024E+21	9,897020E+20	3,701109E+20	7,941851E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942724E+18
-545	3,701524E+20	9,897067E+20	1,351991E+21	1,351968E+21	9,896620E+20	3,700981E+20	7,936543E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,936851E+18
-544	3,701038E+20	9,896320E+20	1,351935E+21	1,351978E+21	9,897107E+20	3,701631E+20	7,942298E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940680E+18
-543	3,700928E+20	9,896763E+20	1,351976E+21	1,351966E+21	9,896462E+20	3,700700E+20	7,939678E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941832E+18
-542	3,701497E+20	9,896647E+20	1,351890E+21	1,351856E+21	9,896026E+20	3,700989E+20	7,937302E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937780E+18
-541	3,700554E+20	9,895704E+20	1,351875E+21	1,351887E+21	9,896171E+20	3,701159E+20	7,944387E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942385E+18
-540	3,700834E+20	9,895984E+20	1,351864E+21	1,351842E+21	9,895386E+20	3,700243E+20	7,937998E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941434E+18
-539	3,700919E+20	9,895229E+20	1,351732E+21	1,351743E+21	9,895375E+20	3,700940E+20	7,941246E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939346E+18
-538	3,700093E+20	9,894689E+20	1,351740E+21	1,351755E+21	9,895164E+20	3,700553E+20	7,943486E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944099E+18
-537	3,700743E+20	9,895018E+20	1,351701E+21	1,351668E+21	9,894321E+20	3,700061E+20	7,938337E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940418E+18
-536	3,700398E+20	9,894264E+20	1,351628E+21	1,351657E+21	9,894811E+20	3,700858E+20	7,944169E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939644E+18
-535	3,699980E+20	9,894559E+20	1,351705E+21	1,351698E+21	9,894542E+20	3,700131E+20	7,942043E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944507E+18
-534	3,700784E+20	9,894844E+20	1,351667E+21	1,351638E+21	9,894318E+20	3,700287E+20	7,939718E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938512E+18
-533	3,700151E+20	9,894266E+20	1,351683E+21	1,351724E+21	9,895135E+20	3,700845E+20	7,943730E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942589E+18
-532	3,700473E+20	9,895212E+20	1,351765E+21	1,351759E+21	9,894924E+20	3,700085E+20	7,939476E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943498E+18
-531	3,701055E+20	9,895396E+20	1,351742E+21	1,351733E+21	9,895307E+20	3,700836E+20	7,939193E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937768E+18
-530	3,700353E+20	9,895291E+20	1,351827E+21	1,351840E+21	9,895831E+20	3,700939E+20	7,943023E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943565E+18
-529	3,700972E+20	9,896080E+20	1,351869E+21	1,351844E+21	9,895499E+20	3,700399E+20	7,938607E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938713E+18
-528	3,700952E+20	9,895701E+20	1,351820E+21	1,351850E+21	9,896247E+20	3,701323E+20	7,940783E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938531E+18
-527	3,700418E+20	9,895785E+20	1,351888E+21	1,351899E+21	9,896192E+20	3,700832E+20	7,942809E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943839E+18
-526	3,701288E+20	9,896225E+20	1,351856E+21	1,351821E+21	9,895562E+20	3,700600E+20	7,936949E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938044E+18
-525	3,700782E+20	9,895508E+20	1,351816E+21	1,351845E+21	9,896032E+20	3,701209E+20	7,942428E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941422E+18
-524	3,700599E+20	9,895875E+20	1,351857E+21	1,351842E+21	9,895509E+20	3,700345E+20	7,940344E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942500E+18
-523	3,701103E+20	9,895692E+20	1,351781E+21	1,351742E+21	9,895119E+20	3,700659E+20	7,938390E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938602E+18
-522	3,700178E+20	9,894631E+20	1,351740E+21	1,351764E+21	9,895305E+20	3,700843E+20	7,945146E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942642E+18
-521	3,700391E+20	9,894809E+20	1,351708E+21	1,351694E+21	9,894397E+20	3,699939E+20	7,939241E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942149E+18
-520	3,700548E+20	9,894163E+20	1,351583E+21	1,351598E+21	9,894384E+20	3,700605E+20	7,942261E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939772E+18
-519	3,699728E+20	9,893669E+20	1,351594E+21	1,351611E+21	9,894177E+20	3,700240E+20	7,944560E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944826E+18
-518	3,700428E+20	9,894144E+20	1,351571E+21	1,351524E+21	9,893218E+20	3,699682E+20	7,939292E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941279E+18
-517	3,700080E+20	9,893381E+20	1,351516E+21	1,351540E+21	9,893825E+20	3,700444E+20	7,944249E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940709E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-516	3,699687E+20	9,893662E+20	1,351587E+21	1,351588E+21	9,893744E+20	3,699800E+20	7,942241E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946047E+18
-515	3,700548E+20	9,894075E+20	1,351566E+21	1,351533E+21	9,893527E+20	3,699980E+20	7,939936E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939762E+18
-514	3,699975E+20	9,893570E+20	1,351579E+21	1,351620E+21	9,894393E+20	3,700567E+20	7,943796E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942682E+18
-513	3,700172E+20	9,894473E+20	1,351659E+21	1,351648E+21	9,894148E+20	3,699867E+20	7,940694E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943284E+18
-512	3,700715E+20	9,894630E+20	1,351644E+21	1,351636E+21	9,894582E+20	3,700613E+20	7,940386E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,937561E+18
-511	3,699965E+20	9,894366E+20	1,351713E+21	1,351741E+21	9,895151E+20	3,700731E+20	7,944425E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944110E+18
-510	3,700659E+20	9,895186E+20	1,351745E+21	1,351721E+21	9,894619E+20	3,700091E+20	7,939255E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939896E+18
-509	3,700699E+20	9,894841E+20	1,351700E+21	1,351728E+21	9,895287E+20	3,700925E+20	7,940536E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939891E+18
-508	3,700193E+20	9,894987E+20	1,351767E+21	1,351776E+21	9,895287E+20	3,700478E+20	7,942912E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944960E+18
-507	3,701042E+20	9,895522E+20	1,351755E+21	1,351703E+21	9,894616E+20	3,700261E+20	7,937553E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938857E+18
-506	3,700486E+20	9,894686E+20	1,351706E+21	1,351731E+21	9,895143E+20	3,700894E+20	7,943363E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941161E+18
-505	3,700134E+20	9,894807E+20	1,351726E+21	1,351718E+21	9,894613E+20	3,700068E+20	7,941926E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942904E+18
-504	3,700662E+20	9,894531E+20	1,351632E+21	1,351611E+21	9,894222E+20	3,700355E+20	7,939745E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939391E+18
-503	3,699780E+20	9,893437E+20	1,351576E+21	1,351615E+21	9,894339E+20	3,700533E+20	7,946206E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943797E+18
-502	3,700081E+20	9,893791E+20	1,351550E+21	1,351526E+21	9,893189E+20	3,699522E+20	7,939821E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943399E+18
-501	3,700245E+20	9,893251E+20	1,351450E+21	1,351449E+21	9,893180E+20	3,700133E+20	7,942331E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940570E+18
-500	3,699404E+20	9,892778E+20	1,351471E+21	1,351482E+21	9,893162E+20	3,699852E+20	7,944953E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,945770E+18
-499	3,700090E+20	9,893295E+20	1,351466E+21	1,351415E+21	9,892338E+20	3,699337E+20	7,940001E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942378E+18
-498	3,699807E+20	9,892529E+20	1,351403E+21	1,351436E+21	9,893072E+20	3,700137E+20	7,944443E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941095E+18
-497	3,699358E+20	9,892768E+20	1,351466E+21	1,351474E+21	9,892973E+20	3,699566E+20	7,943221E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946671E+18
-496	3,700265E+20	9,893267E+20	1,351454E+21	1,351429E+21	9,892814E+20	3,699746E+20	7,940864E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939866E+18
-495	3,699670E+20	9,892782E+20	1,351467E+21	1,351511E+21	9,893667E+20	3,700368E+20	7,944997E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942923E+18
-494	3,699853E+20	9,893688E+20	1,351550E+21	1,351532E+21	9,893256E+20	3,699580E+20	7,941800E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943704E+18
-493	3,700388E+20	9,893789E+20	1,351539E+21	1,351533E+21	9,893711E+20	3,700253E+20	7,940551E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938592E+18
-492	3,699692E+20	9,893495E+20	1,351590E+21	1,351627E+21	9,894343E+20	3,700421E+20	7,944809E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,945510E+18
-491	3,700427E+20	9,894432E+20	1,351636E+21	1,351605E+21	9,893751E+20	3,699766E+20	7,939550E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941264E+18
-490	3,700521E+20	9,894149E+20	1,351591E+21	1,351613E+21	9,894407E+20	3,700579E+20	7,940690E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940031E+18
-489	3,699848E+20	9,894162E+20	1,351652E+21	1,351654E+21	9,894380E+20	3,700208E+20	7,944225E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944891E+18
-488	3,700635E+20	9,894590E+20	1,351640E+21	1,351596E+21	9,893796E+20	3,699980E+20	7,938926E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,938979E+18
-487	3,700037E+20	9,893589E+20	1,351568E+21	1,351610E+21	9,894323E+20	3,700634E+20	7,944902E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941868E+18
-486	3,699734E+20	9,893676E+20	1,351571E+21	1,351568E+21	9,893563E+20	3,699706E+20	7,942714E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944288E+18
-485	3,700329E+20	9,893462E+20	1,351482E+21	1,351462E+21	9,893078E+20	3,699896E+20	7,939697E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940990E+18
-484	3,699511E+20	9,892470E+20	1,351425E+21	1,351463E+21	9,893239E+20	3,700115E+20	7,946316E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,945088E+18
-483	3,699796E+20	9,892979E+20	1,351430E+21	1,351387E+21	9,892087E+20	3,699124E+20	7,940367E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944513E+18
-482	3,699955E+20	9,892425E+20	1,351336E+21	1,351329E+21	9,892197E+20	3,699748E+20	7,942910E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940486E+18
-481	3,698982E+20	9,891794E+20	1,351348E+21	1,351365E+21	9,892299E+20	3,699572E+20	7,946245E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946303E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-480	3,699717E+20	9,892298E+20	1,351338E+21	1,351306E+21	9,891601E+20	3,699083E+20	7,941353E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942908E+18
-479	3,699473E+20	9,891583E+20	1,351271E+21	1,351318E+21	9,892319E+20	3,699911E+20	7,945520E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941815E+18
-478	3,699078E+20	9,891944E+20	1,351342E+21	1,351343E+21	9,892040E+20	3,699268E+20	7,944079E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,947310E+18
-477	3,699967E+20	9,892491E+20	1,351348E+21	1,351316E+21	9,891888E+20	3,699393E+20	7,941094E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940351E+18
-476	3,699368E+20	9,891991E+20	1,351359E+21	1,351406E+21	9,892867E+20	3,700065E+20	7,945425E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943772E+18
-475	3,699551E+20	9,892919E+20	1,351452E+21	1,351432E+21	9,892480E+20	3,699278E+20	7,942316E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944867E+18
-474	3,700157E+20	9,893017E+20	1,351431E+21	1,351429E+21	9,892953E+20	3,699932E+20	7,940539E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939106E+18
-473	3,699410E+20	9,892692E+20	1,351476E+21	1,351514E+21	9,893540E+20	3,700154E+20	7,945574E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946225E+18
-472	3,700170E+20	9,893668E+20	1,351523E+21	1,351498E+21	9,892997E+20	3,699509E+20	7,940527E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941504E+18
-471	3,700205E+20	9,893358E+20	1,351477E+21	1,351499E+21	9,893608E+20	3,700341E+20	7,942052E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940405E+18
-470	3,699486E+20	9,893258E+20	1,351531E+21	1,351528E+21	9,893403E+20	3,699880E+20	7,945398E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,945471E+18
-469	3,700237E+20	9,893561E+20	1,351510E+21	1,351472E+21	9,892810E+20	3,699572E+20	7,939178E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940454E+18
-468	3,699706E+20	9,892533E+20	1,351416E+21	1,351466E+21	9,893335E+20	3,700255E+20	7,945312E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943500E+18
-467	3,699445E+20	9,892725E+20	1,351431E+21	1,351420E+21	9,892477E+20	3,699300E+20	7,942971E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,945839E+18
-466	3,700076E+20	9,892592E+20	1,351347E+21	1,351319E+21	9,891991E+20	3,699473E+20	7,940054E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941125E+18
-465	3,699113E+20	9,891525E+20	1,351294E+21	1,351323E+21	9,892182E+20	3,699782E+20	7,947639E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,945097E+18
-464	3,699361E+20	9,891958E+20	1,351304E+21	1,351272E+21	9,891219E+20	3,698832E+20	7,942022E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944594E+18
-463	3,699507E+20	9,891359E+20	1,351202E+21	1,351210E+21	9,891395E+20	3,699490E+20	7,944442E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941135E+18
-462	3,698606E+20	9,890747E+20	1,351208E+21	1,351229E+21	9,891344E+20	3,699248E+20	7,947062E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,947450E+18
-461	3,699411E+20	9,891365E+20	1,351210E+21	1,351181E+21	9,890655E+20	3,698699E+20	7,941401E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944214E+18
-460	3,699236E+20	9,890776E+20	1,351144E+21	1,351189E+21	9,891430E+20	3,699581E+20	7,945682E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942815E+18
-459	3,698817E+20	9,891239E+20	1,351243E+21	1,351229E+21	9,891152E+20	3,698951E+20	7,944614E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948148E+18
-458	3,699699E+20	9,891758E+20	1,351252E+21	1,351218E+21	9,891084E+20	3,699055E+20	7,941376E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940367E+18
-457	3,699019E+20	9,891121E+20	1,351248E+21	1,351300E+21	9,892115E+20	3,699812E+20	7,946317E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944564E+18
-456	3,699266E+20	9,892052E+20	1,351336E+21	1,351331E+21	9,891817E+20	3,699050E+20	7,943358E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,945515E+18
-455	3,699906E+20	9,892252E+20	1,351316E+21	1,351316E+21	9,892210E+20	3,699696E+20	7,941456E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,939847E+18
-454	3,699160E+20	9,891963E+20	1,351364E+21	1,351388E+21	9,892607E+20	3,699843E+20	7,946400E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946632E+18
-453	3,699854E+20	9,892899E+20	1,351421E+21	1,351388E+21	9,892078E+20	3,699148E+20	7,940870E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942086E+18
-452	3,699856E+20	9,892469E+20	1,351360E+21	1,351386E+21	9,892759E+20	3,700010E+20	7,942690E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941391E+18
-451	3,699134E+20	9,892313E+20	1,351411E+21	1,351409E+21	9,892520E+20	3,699538E+20	7,945907E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946783E+18
-450	3,699933E+20	9,892590E+20	1,351376E+21	1,351343E+21	9,891876E+20	3,699188E+20	7,939284E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941280E+18
-449	3,699360E+20	9,891529E+20	1,351272E+21	1,351321E+21	9,892331E+20	3,699923E+20	7,946232E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944245E+18
-448	3,699116E+20	9,891746E+20	1,351291E+21	1,351285E+21	9,891532E+20	3,698991E+20	7,944209E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946081E+18
-447	3,699681E+20	9,891630E+20	1,351214E+21	1,351182E+21	9,891010E+20	3,699171E+20	7,941758E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941414E+18
-446	3,698692E+20	9,890484E+20	1,351159E+21	1,351184E+21	9,891101E+20	3,699403E+20	7,948820E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,945701E+18
-445	3,698950E+20	9,890872E+20	1,351166E+21	1,351141E+21	9,890225E+20	3,698435E+20	7,942510E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946088E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-444	3,699188E+20	9,890335E+20	1,351057E+21	1,351071E+21	9,890454E+20	3,699126E+20	7,944796E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942804E+18
-443	3,698370E+20	9,889917E+20	1,351084E+21	1,351095E+21	9,890355E+20	3,698875E+20	7,947157E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948867E+18
-442	3,699182E+20	9,890610E+20	1,351095E+21	1,351058E+21	9,889737E+20	3,698332E+20	7,941575E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944235E+18
-441	3,698885E+20	9,889964E+20	1,351037E+21	1,351074E+21	9,890585E+20	3,699307E+20	7,946553E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942942E+18
-440	3,698461E+20	9,890334E+20	1,351133E+21	1,351134E+21	9,890486E+20	3,698727E+20	7,945987E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948138E+18
-439	3,699332E+20	9,890863E+20	1,351138E+21	1,351116E+21	9,890429E+20	3,698851E+20	7,942593E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940947E+18
-438	3,698734E+20	9,890272E+20	1,351131E+21	1,351181E+21	9,891258E+20	3,699517E+20	7,946904E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,945550E+18
-437	3,699032E+20	9,891295E+20	1,351227E+21	1,351218E+21	9,890964E+20	3,698719E+20	7,943466E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946564E+18
-436	3,699695E+20	9,891573E+20	1,351210E+21	1,351200E+21	9,891377E+20	3,699384E+20	7,941724E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,940818E+18
-435	3,698912E+20	9,891307E+20	1,351272E+21	1,351279E+21	9,891730E+20	3,699516E+20	7,946923E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,947312E+18
-434	3,699540E+20	9,892079E+20	1,351318E+21	1,351287E+21	9,891275E+20	3,698799E+20	7,941237E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942287E+18
-433	3,699452E+20	9,891450E+20	1,351232E+21	1,351264E+21	9,891934E+20	3,699729E+20	7,943742E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942349E+18
-432	3,698792E+20	9,891216E+20	1,351267E+21	1,351283E+21	9,891705E+20	3,699269E+20	7,947130E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,947366E+18
-431	3,699585E+20	9,891593E+20	1,351232E+21	1,351199E+21	9,890923E+20	3,698894E+20	7,940548E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942077E+18
-430	3,699015E+20	9,890550E+20	1,351129E+21	1,351163E+21	9,891153E+20	3,699530E+20	7,947276E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944626E+18
-429	3,698725E+20	9,890761E+20	1,351160E+21	1,351144E+21	9,890413E+20	3,698573E+20	7,944723E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946924E+18
-428	3,699290E+20	9,890595E+20	1,351077E+21	1,351045E+21	9,889989E+20	3,698769E+20	7,942510E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942654E+18
-427	3,698346E+20	9,889496E+20	1,351027E+21	1,351050E+21	9,890108E+20	3,699004E+20	7,949030E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,947179E+18
-426	3,698666E+20	9,889926E+20	1,351034E+21	1,351013E+21	9,889293E+20	3,698037E+20	7,942507E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,947044E+18
-425	3,698871E+20	9,889402E+20	1,350926E+21	1,350938E+21	9,889542E+20	3,698818E+20	7,945495E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943570E+18
-424	3,698082E+20	9,889014E+20	1,350962E+21	1,350980E+21	9,889568E+20	3,698633E+20	7,948340E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948796E+18
-423	3,698809E+20	9,889762E+20	1,350985E+21	1,350946E+21	9,888938E+20	3,698107E+20	7,943158E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944256E+18
-422	3,698501E+20	9,889036E+20	1,350921E+21	1,350955E+21	9,889680E+20	3,699001E+20	7,947521E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943372E+18
-421	3,698128E+20	9,889415E+20	1,351015E+21	1,351020E+21	9,889661E+20	3,698415E+20	7,946409E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,949352E+18
-420	3,699095E+20	9,890040E+20	1,351018E+21	1,350996E+21	9,889608E+20	3,698538E+20	7,942867E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,942384E+18
-419	3,698576E+20	9,889657E+20	1,351032E+21	1,351067E+21	9,890381E+20	3,699172E+20	7,946866E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946702E+18
-418	3,698841E+20	9,890684E+20	1,351137E+21	1,351117E+21	9,890158E+20	3,698390E+20	7,943686E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946452E+18
-417	3,699351E+20	9,890807E+20	1,351117E+21	1,351101E+21	9,890617E+20	3,699127E+20	7,942579E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941133E+18
-416	3,698555E+20	9,890347E+20	1,351161E+21	1,351187E+21	9,891091E+20	3,699299E+20	7,948267E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,947297E+18
-415	3,699130E+20	9,891066E+20	1,351191E+21	1,351172E+21	9,890545E+20	3,698573E+20	7,942436E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943098E+18
-414	3,699107E+20	9,890416E+20	1,351090E+21	1,351120E+21	9,890912E+20	3,699382E+20	7,944502E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943418E+18
-413	3,698504E+20	9,890249E+20	1,351123E+21	1,351135E+21	9,890643E+20	3,698888E+20	7,947461E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948426E+18
-412	3,699286E+20	9,890680E+20	1,351094E+21	1,351050E+21	9,889834E+20	3,698504E+20	7,941213E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943251E+18
-411	3,698716E+20	9,889712E+20	1,351011E+21	1,351026E+21	9,890009E+20	3,699081E+20	7,947682E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,945547E+18
-410	3,698377E+20	9,889788E+20	1,351035E+21	1,351018E+21	9,889411E+20	3,698151E+20	7,945013E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,947568E+18
-409	3,698882E+20	9,889517E+20	1,350939E+21	1,350913E+21	9,889060E+20	3,698434E+20	7,943405E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943897E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-408	3,698030E+20	9,888426E+20	1,350885E+21	1,350923E+21	9,889263E+20	3,698723E+20	7,950101E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,947584E+18
-407	3,698310E+20	9,888979E+20	1,350900E+21	1,350879E+21	9,888413E+20	3,697784E+20	7,943922E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,947454E+18
-406	3,698492E+20	9,888446E+20	1,350797E+21	1,350799E+21	9,888500E+20	3,698494E+20	7,946726E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943555E+18
-405	3,697691E+20	9,888040E+20	1,350839E+21	1,350856E+21	9,888624E+20	3,698306E+20	7,949077E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,949223E+18
-404	3,698424E+20	9,888777E+20	1,350859E+21	1,350826E+21	9,888084E+20	3,697789E+20	7,943926E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,945377E+18
-403	3,698237E+20	9,888221E+20	1,350808E+21	1,350838E+21	9,888783E+20	3,698633E+20	7,947371E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944847E+18
-402	3,697943E+20	9,888695E+20	1,350908E+21	1,350911E+21	9,888842E+20	3,698068E+20	7,946270E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950170E+18
-401	3,698871E+20	9,889354E+20	1,350917E+21	1,350890E+21	9,888846E+20	3,698270E+20	7,943306E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943154E+18
-400	3,698360E+20	9,888957E+20	1,350938E+21	1,350977E+21	9,889721E+20	3,698964E+20	7,947942E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946483E+18
-399	3,698493E+20	9,889932E+20	1,351044E+21	1,351024E+21	9,889486E+20	3,698196E+20	7,945152E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946426E+18
-398	3,698952E+20	9,889843E+20	1,351000E+21	1,350988E+21	9,889771E+20	3,698842E+20	7,943550E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,941787E+18
-397	3,698218E+20	9,889331E+20	1,351026E+21	1,351061E+21	9,890226E+20	3,698992E+20	7,948785E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948481E+18
-396	3,698839E+20	9,890102E+20	1,351049E+21	1,351029E+21	9,889560E+20	3,698225E+20	7,942888E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944687E+18
-395	3,698892E+20	9,889632E+20	1,350963E+21	1,350975E+21	9,889779E+20	3,698948E+20	7,944607E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944547E+18
-394	3,698241E+20	9,889459E+20	1,351006E+21	1,351003E+21	9,889576E+20	3,698471E+20	7,947725E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948552E+18
-393	3,698884E+20	9,889731E+20	1,350973E+21	1,350925E+21	9,888857E+20	3,698154E+20	7,942235E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943862E+18
-392	3,698319E+20	9,888622E+20	1,350881E+21	1,350914E+21	9,889196E+20	3,698790E+20	7,948998E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,945665E+18
-391	3,697945E+20	9,888711E+20	1,350898E+21	1,350891E+21	9,888570E+20	3,697895E+20	7,946330E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948378E+18
-390	3,698485E+20	9,888404E+20	1,350792E+21	1,350767E+21	9,888016E+20	3,698091E+20	7,944469E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944776E+18
-389	3,697707E+20	9,887417E+20	1,350739E+21	1,350777E+21	9,888255E+20	3,698382E+20	7,950653E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948289E+18
-388	3,697954E+20	9,888022E+20	1,350764E+21	1,350736E+21	9,887387E+20	3,697443E+20	7,944874E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948452E+18
-387	3,698177E+20	9,887591E+20	1,350680E+21	1,350671E+21	9,887438E+20	3,698078E+20	7,947069E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944422E+18
-386	3,697388E+20	9,887147E+20	1,350718E+21	1,350740E+21	9,887719E+20	3,697925E+20	7,949182E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950033E+18
-385	3,698112E+20	9,887876E+20	1,350737E+21	1,350710E+21	9,887273E+20	3,697491E+20	7,944490E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946731E+18
-384	3,698045E+20	9,887436E+20	1,350697E+21	1,350737E+21	9,888062E+20	3,698377E+20	7,947976E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,945346E+18
-383	3,697704E+20	9,888050E+20	1,350810E+21	1,350809E+21	9,888132E+20	3,697868E+20	7,947426E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950345E+18
-382	3,698553E+20	9,888616E+20	1,350821E+21	1,350785E+21	9,888009E+20	3,698003E+20	7,944310E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943136E+18
-381	3,698023E+20	9,888134E+20	1,350833E+21	1,350875E+21	9,888957E+20	3,698701E+20	7,948724E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946669E+18
-380	3,698100E+20	9,888970E+20	1,350922E+21	1,350914E+21	9,888724E+20	3,697927E+20	7,946014E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,947450E+18
-379	3,698670E+20	9,888987E+20	1,350879E+21	1,350866E+21	9,888828E+20	3,698463E+20	7,943475E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943317E+18
-378	3,698003E+20	9,888498E+20	1,350898E+21	1,350933E+21	9,889267E+20	3,698612E+20	7,948829E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,949269E+18
-377	3,698557E+20	9,889267E+20	1,350925E+21	1,350899E+21	9,888617E+20	3,697905E+20	7,943493E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,945637E+18
-376	3,698613E+20	9,888790E+20	1,350849E+21	1,350859E+21	9,888873E+20	3,698642E+20	7,945857E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944401E+18
-375	3,697826E+20	9,888545E+20	1,350890E+21	1,350887E+21	9,888690E+20	3,698194E+20	7,949263E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948585E+18
-374	3,698406E+20	9,888587E+20	1,350833E+21	1,350794E+21	9,887866E+20	3,697809E+20	7,943523E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944685E+18
-373	3,697924E+20	9,887474E+20	1,350724E+21	1,350768E+21	9,888214E+20	3,698448E+20	7,949802E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946742E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-372	3,697582E+20	9,887611E+20	1,350741E+21	1,350738E+21	9,887518E+20	3,697543E+20	7,947157E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,949984E+18
-371	3,698207E+20	9,887503E+20	1,350653E+21	1,350616E+21	9,886841E+20	3,697649E+20	7,944798E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,945938E+18
-370	3,697413E+20	9,886534E+20	1,350609E+21	1,350641E+21	9,887182E+20	3,697965E+20	7,950867E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948631E+18
-369	3,697554E+20	9,887041E+20	1,350639E+21	1,350613E+21	9,886451E+20	3,697099E+20	7,945645E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,949383E+18
-368	3,697843E+20	9,886604E+20	1,350557E+21	1,350564E+21	9,886653E+20	3,697780E+20	7,947882E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944776E+18
-367	3,697072E+20	9,886305E+20	1,350603E+21	1,350630E+21	9,886956E+20	3,697683E+20	7,950070E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950786E+18
-366	3,697817E+20	9,887031E+20	1,350619E+21	1,350593E+21	9,886419E+20	3,697211E+20	7,945445E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,947312E+18
-365	3,697809E+20	9,886725E+20	1,350588E+21	1,350624E+21	9,887287E+20	3,698123E+20	7,948564E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,945694E+18
-364	3,697402E+20	9,887323E+20	1,350710E+21	1,350702E+21	9,887333E+20	3,697621E+20	7,948554E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950932E+18
-363	3,698252E+20	9,887872E+20	1,350723E+21	1,350684E+21	9,887147E+20	3,697653E+20	7,944609E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943907E+18
-362	3,697733E+20	9,887294E+20	1,350719E+21	1,350770E+21	9,888173E+20	3,698365E+20	7,948823E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,947471E+18
-361	3,697787E+20	9,888050E+20	1,350796E+21	1,350796E+21	9,887920E+20	3,697637E+20	7,946499E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948752E+18
-360	3,698443E+20	9,888145E+20	1,350759E+21	1,350753E+21	9,888004E+20	3,698174E+20	7,944240E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,943769E+18
-359	3,697719E+20	9,887763E+20	1,350787E+21	1,350812E+21	9,888386E+20	3,698353E+20	7,950152E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,949250E+18
-358	3,698154E+20	9,888347E+20	1,350805E+21	1,350773E+21	9,887622E+20	3,697586E+20	7,944813E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,945792E+18
-357	3,698206E+20	9,887792E+20	1,350718E+21	1,350734E+21	9,887956E+20	3,698309E+20	7,946854E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944878E+18
-356	3,697388E+20	9,887429E+20	1,350745E+21	1,350751E+21	9,887747E+20	3,697859E+20	7,950156E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950020E+18
-355	3,698085E+20	9,887573E+20	1,350688E+21	1,350651E+21	9,886773E+20	3,697364E+20	7,943585E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946561E+18
-354	3,697668E+20	9,886524E+20	1,350578E+21	1,350622E+21	9,887145E+20	3,698019E+20	7,949857E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,947797E+18
-353	3,697260E+20	9,886654E+20	1,350602E+21	1,350595E+21	9,886492E+20	3,697187E+20	7,947772E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,951133E+18
-352	3,697887E+20	9,886570E+20	1,350530E+21	1,350493E+21	9,885875E+20	3,697316E+20	7,946018E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946009E+18
-351	3,697018E+20	9,885600E+20	1,350487E+21	1,350520E+21	9,886282E+20	3,697674E+20	7,952130E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948786E+18
-350	3,697115E+20	9,885959E+20	1,350502E+21	1,350485E+21	9,885525E+20	3,696788E+20	7,946856E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950200E+18
-349	3,697534E+20	9,885669E+20	1,350421E+21	1,350431E+21	9,885774E+20	3,697473E+20	7,948559E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,945544E+18
-348	3,696783E+20	9,885467E+20	1,350480E+21	1,350503E+21	9,886072E+20	3,697400E+20	7,950944E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,951900E+18
-347	3,697592E+20	9,886366E+20	1,350517E+21	1,350480E+21	9,885492E+20	3,696851E+20	7,945837E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,947925E+18
-346	3,697541E+20	9,886028E+20	1,350492E+21	1,350524E+21	9,886466E+20	3,697790E+20	7,948801E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,945826E+18
-345	3,697030E+20	9,886452E+20	1,350606E+21	1,350607E+21	9,886639E+20	3,697362E+20	7,949259E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,951647E+18
-344	3,697928E+20	9,886969E+20	1,350615E+21	1,350592E+21	9,886489E+20	3,697405E+20	7,945275E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944384E+18
-343	3,697442E+20	9,886485E+20	1,350604E+21	1,350659E+21	9,887431E+20	3,698127E+20	7,949617E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948128E+18
-342	3,697478E+20	9,887155E+20	1,350669E+21	1,350671E+21	9,887037E+20	3,697351E+20	7,947411E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,949442E+18
-341	3,698181E+20	9,887361E+20	1,350636E+21	1,350623E+21	9,887102E+20	3,697868E+20	7,945036E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944240E+18
-340	3,697372E+20	9,886911E+20	1,350671E+21	1,350687E+21	9,887419E+20	3,698027E+20	7,951323E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950044E+18
-339	3,697816E+20	9,887444E+20	1,350684E+21	1,350650E+21	9,886599E+20	3,697160E+20	7,945152E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,947065E+18
-338	3,697882E+20	9,886811E+20	1,350582E+21	1,350603E+21	9,886981E+20	3,697891E+20	7,947019E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946194E+18
-337	3,697060E+20	9,886388E+20	1,350599E+21	1,350611E+21	9,886776E+20	3,697500E+20	7,950523E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,951647E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-336	3,697806E+20	9,886611E+20	1,350553E+21	1,350518E+21	9,885808E+20	3,697019E+20	7,944433E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,947289E+18
-335	3,697336E+20	9,885665E+20	1,350451E+21	1,350485E+21	9,886158E+20	3,697714E+20	7,951164E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,947728E+18
-334	3,696797E+20	9,885563E+20	1,350464E+21	1,350457E+21	9,885453E+20	3,696861E+20	7,949286E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,951178E+18
-333	3,697435E+20	9,885472E+20	1,350386E+21	1,350358E+21	9,884947E+20	3,696990E+20	7,947264E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946273E+18
-332	3,696586E+20	9,884514E+20	1,350347E+21	1,350384E+21	9,885324E+20	3,697346E+20	7,953044E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950049E+18
-331	3,696832E+20	9,885041E+20	1,350369E+21	1,350350E+21	9,884507E+20	3,696389E+20	7,947105E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,951676E+18
-330	3,697323E+20	9,884912E+20	1,350303E+21	1,350309E+21	9,884868E+20	3,697097E+20	7,948490E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946456E+18
-329	3,696537E+20	9,884745E+20	1,350375E+21	1,350392E+21	9,885261E+20	3,697111E+20	7,951391E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952777E+18
-328	3,697315E+20	9,885624E+20	1,350428E+21	1,350393E+21	9,884788E+20	3,696590E+20	7,946799E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,947876E+18
-327	3,697199E+20	9,885252E+20	1,350395E+21	1,350432E+21	9,885805E+20	3,697559E+20	7,949682E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,945995E+18
-326	3,696640E+20	9,885430E+20	1,350481E+21	1,350495E+21	9,885892E+20	3,697114E+20	7,950270E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952351E+18
-325	3,697646E+20	9,886086E+20	1,350485E+21	1,350465E+21	9,885696E+20	3,697134E+20	7,945851E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,945236E+18
-324	3,697185E+20	9,885698E+20	1,350484E+21	1,350528E+21	9,886508E+20	3,697828E+20	7,950406E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,949334E+18
-323	3,697264E+20	9,886460E+20	1,350561E+21	1,350545E+21	9,886023E+20	3,696968E+20	7,947786E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950262E+18
-322	3,697906E+20	9,886606E+20	1,350530E+21	1,350508E+21	9,886158E+20	3,697467E+20	7,945276E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,944880E+18
-321	3,697009E+20	9,885969E+20	1,350552E+21	1,350574E+21	9,886578E+20	3,697685E+20	7,951775E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,951079E+18
-320	3,697476E+20	9,886456E+20	1,350562E+21	1,350538E+21	9,885787E+20	3,696841E+20	7,945800E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,947946E+18
-319	3,697553E+20	9,885873E+20	1,350451E+21	1,350473E+21	9,886090E+20	3,697595E+20	7,948047E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946770E+18
-318	3,696673E+20	9,885294E+20	1,350452E+21	1,350467E+21	9,885789E+20	3,697197E+20	7,951792E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952071E+18
-317	3,697429E+20	9,885623E+20	1,350408E+21	1,350366E+21	9,884792E+20	3,696705E+20	7,945840E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,947546E+18
-316	3,696885E+20	9,884596E+20	1,350312E+21	1,350338E+21	9,885068E+20	3,697365E+20	7,952667E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948349E+18
-315	3,696401E+20	9,884472E+20	1,350321E+21	1,350315E+21	9,884350E+20	3,696420E+20	7,949761E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952432E+18
-314	3,697099E+20	9,884435E+20	1,350241E+21	1,350217E+21	9,883904E+20	3,696548E+20	7,947414E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,947643E+18
-313	3,696307E+20	9,883565E+20	1,350212E+21	1,350249E+21	9,884363E+20	3,696970E+20	7,953063E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,951621E+18
-312	3,696611E+20	9,884268E+20	1,350260E+21	1,350237E+21	9,883657E+20	3,696080E+20	7,947823E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952255E+18
-311	3,697048E+20	9,884238E+20	1,350210E+21	1,350204E+21	9,884080E+20	3,696838E+20	7,949392E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946306E+18
-310	3,696140E+20	9,883819E+20	1,350267E+21	1,350289E+21	9,884504E+20	3,696869E+20	7,952567E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952767E+18
-309	3,696933E+20	9,884692E+20	1,350308E+21	1,350284E+21	9,884117E+20	3,696354E+20	7,947713E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948155E+18
-308	3,696840E+20	9,884321E+20	1,350275E+21	1,350314E+21	9,885014E+20	3,697297E+20	7,950319E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,947320E+18
-307	3,696433E+20	9,884610E+20	1,350359E+21	1,350371E+21	9,884980E+20	3,696758E+20	7,950383E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953653E+18
-306	3,697469E+20	9,885402E+20	1,350375E+21	1,350345E+21	9,884795E+20	3,696770E+20	7,945810E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946242E+18
-305	3,696972E+20	9,885026E+20	1,350385E+21	1,350416E+21	9,885631E+20	3,697501E+20	7,950736E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950248E+18
-304	3,696987E+20	9,885717E+20	1,350472E+21	1,350451E+21	9,885234E+20	3,696677E+20	7,948730E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950443E+18
-303	3,697555E+20	9,885774E+20	1,350427E+21	1,350406E+21	9,885403E+20	3,697186E+20	7,946196E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,945247E+18
-302	3,696598E+20	9,884857E+20	1,350412E+21	1,350446E+21	9,885724E+20	3,697408E+20	7,952952E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,951600E+18
-301	3,697113E+20	9,885412E+20	1,350411E+21	1,350394E+21	9,884891E+20	3,696553E+20	7,946895E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948624E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-300	3,697173E+20	9,884862E+20	1,350310E+21	1,350322E+21	9,885023E+20	3,697266E+20	7,949423E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,947717E+18
-299	3,696338E+20	9,884276E+20	1,350309E+21	1,350315E+21	9,884617E+20	3,696777E+20	7,952527E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952716E+18
-298	3,697033E+20	9,884579E+20	1,350269E+21	1,350224E+21	9,883682E+20	3,696260E+20	7,946327E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948508E+18
-297	3,696497E+20	9,883502E+20	1,350169E+21	1,350199E+21	9,884038E+20	3,696943E+20	7,952818E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,949706E+18
-296	3,696085E+20	9,883470E+20	1,350190E+21	1,350187E+21	9,883400E+20	3,696052E+20	7,950120E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953632E+18
-295	3,696828E+20	9,883594E+20	1,350121E+21	1,350092E+21	9,883002E+20	3,696213E+20	7,948008E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948303E+18
-294	3,695992E+20	9,882648E+20	1,350085E+21	1,350123E+21	9,883487E+20	3,696686E+20	7,953956E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,951948E+18
-293	3,696294E+20	9,883460E+20	1,350144E+21	1,350117E+21	9,882872E+20	3,695845E+20	7,949190E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952268E+18
-292	3,696646E+20	9,883341E+20	1,350103E+21	1,350094E+21	9,883254E+20	3,696580E+20	7,950637E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946926E+18
-291	3,695823E+20	9,882862E+20	1,350144E+21	1,350174E+21	9,883648E+20	3,696535E+20	7,952962E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953744E+18
-290	3,696651E+20	9,883804E+20	1,350184E+21	1,350163E+21	9,883250E+20	3,696002E+20	7,947711E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,949471E+18
-289	3,696637E+20	9,883544E+20	1,350159E+21	1,350192E+21	9,884134E+20	3,696958E+20	7,950153E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948744E+18
-288	3,696262E+20	9,883988E+20	1,350266E+21	1,350266E+21	9,884164E+20	3,696476E+20	7,951086E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,954003E+18
-287	3,697216E+20	9,884790E+20	1,350291E+21	1,350248E+21	9,884015E+20	3,696507E+20	7,946816E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,945914E+18
-286	3,696566E+20	9,884096E+20	1,350278E+21	1,350316E+21	9,884879E+20	3,697253E+20	7,952039E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950114E+18
-285	3,696580E+20	9,884737E+20	1,350346E+21	1,350337E+21	9,884524E+20	3,696444E+20	7,949971E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950657E+18
-284	3,697133E+20	9,884716E+20	1,350294E+21	1,350276E+21	9,884510E+20	3,696899E+20	7,947205E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946638E+18
-283	3,696321E+20	9,883830E+20	1,350264E+21	1,350301E+21	9,884687E+20	3,697019E+20	7,953290E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952759E+18
-282	3,696823E+20	9,884480E+20	1,350271E+21	1,350245E+21	9,883793E+20	3,696137E+20	7,947114E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,949949E+18
-281	3,696862E+20	9,883920E+20	1,350178E+21	1,350178E+21	9,883900E+20	3,696848E+20	7,949874E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948819E+18
-280	3,695999E+20	9,883308E+20	1,350186E+21	1,350187E+21	9,883588E+20	3,696389E+20	7,953254E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953341E+18
-279	3,696654E+20	9,883573E+20	1,350138E+21	1,350095E+21	9,882712E+20	3,695888E+20	7,947096E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,949220E+18
-278	3,696105E+20	9,882368E+20	1,350019E+21	1,350057E+21	9,883057E+20	3,696597E+20	7,953600E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950464E+18
-277	3,695774E+20	9,882523E+20	1,350046E+21	1,350044E+21	9,882489E+20	3,695768E+20	7,951205E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,954244E+18
-276	3,696474E+20	9,882712E+20	1,350000E+21	1,349961E+21	9,882048E+20	3,695926E+20	7,949409E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,949019E+18
-275	3,695686E+20	9,881758E+20	1,349965E+21	1,350000E+21	9,882522E+20	3,696341E+20	7,954656E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952225E+18
-274	3,695915E+20	9,882536E+20	1,350027E+21	1,350004E+21	9,882002E+20	3,695502E+20	7,949709E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953050E+18
-273	3,696302E+20	9,882387E+20	1,349983E+21	1,349981E+21	9,882424E+20	3,696247E+20	7,950641E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948166E+18
-272	3,695581E+20	9,882028E+20	1,350032E+21	1,350065E+21	9,882855E+20	3,696247E+20	7,953304E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,954668E+18
-271	3,696435E+20	9,883117E+20	1,350082E+21	1,350058E+21	9,882484E+20	3,695729E+20	7,948218E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,949884E+18
-270	3,696380E+20	9,882803E+20	1,350051E+21	1,350082E+21	9,883337E+20	3,696707E+20	7,951034E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948895E+18
-269	3,695976E+20	9,883285E+20	1,350163E+21	1,350160E+21	9,883432E+20	3,696274E+20	7,952643E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953745E+18
-268	3,696813E+20	9,883933E+20	1,350191E+21	1,350149E+21	9,883234E+20	3,696248E+20	7,948074E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,946690E+18
-267	3,696247E+20	9,883109E+20	1,350149E+21	1,350197E+21	9,883997E+20	3,696903E+20	7,952491E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,951091E+18
-266	3,696267E+20	9,883770E+20	1,350209E+21	1,350204E+21	9,883571E+20	3,696071E+20	7,950018E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952224E+18
-265	3,696880E+20	9,883812E+20	1,350160E+21	1,350137E+21	9,883473E+20	3,696502E+20	7,947157E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948316E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-264	3,696090E+20	9,883018E+20	1,350144E+21	1,350168E+21	9,883665E+20	3,696662E+20	7,953968E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953309E+18
-263	3,696484E+20	9,883616E+20	1,350154E+21	1,350119E+21	9,882797E+20	3,695782E+20	7,947997E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950095E+18
-262	3,696407E+20	9,882792E+20	1,350038E+21	1,350046E+21	9,882915E+20	3,696496E+20	7,951021E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,949015E+18
-261	3,695575E+20	9,882210E+20	1,350035E+21	1,350047E+21	9,882671E+20	3,696090E+20	7,954470E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953727E+18
-260	3,696221E+20	9,882477E+20	1,349995E+21	1,349955E+21	9,881707E+20	3,695559E+20	7,948343E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950562E+18
-259	3,695817E+20	9,881362E+20	1,349873E+21	1,349912E+21	9,881996E+20	3,696204E+20	7,954117E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,951327E+18
-258	3,695466E+20	9,881649E+20	1,349917E+21	1,349906E+21	9,881456E+20	3,695405E+20	7,951757E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955386E+18
-257	3,696149E+20	9,881818E+20	1,349883E+21	1,349839E+21	9,881071E+20	3,695564E+20	7,949990E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,949941E+18
-256	3,695369E+20	9,880875E+20	1,349855E+21	1,349893E+21	9,881680E+20	3,696020E+20	7,955240E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952798E+18
-255	3,695571E+20	9,881621E+20	1,349908E+21	1,349894E+21	9,881208E+20	3,695200E+20	7,950338E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953561E+18
-254	3,695961E+20	9,881398E+20	1,349850E+21	1,349859E+21	9,881592E+20	3,695962E+20	7,951264E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948741E+18
-253	3,695340E+20	9,881277E+20	1,349910E+21	1,349943E+21	9,882062E+20	3,696020E+20	7,954461E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,954926E+18
-252	3,696124E+20	9,882395E+20	1,349982E+21	1,349948E+21	9,881651E+20	3,695491E+20	7,949625E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950437E+18
-251	3,696111E+20	9,882040E+20	1,349947E+21	1,349975E+21	9,882478E+20	3,696379E+20	7,951593E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,949294E+18
-250	3,695646E+20	9,882467E+20	1,350056E+21	1,350056E+21	9,882611E+20	3,695944E+20	7,952974E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,954760E+18
-249	3,696503E+20	9,883032E+20	1,350074E+21	1,350040E+21	9,882400E+20	3,695895E+20	7,947866E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948276E+18
-248	3,696020E+20	9,882295E+20	1,350033E+21	1,350081E+21	9,883141E+20	3,696572E+20	7,952711E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952130E+18
-247	3,696010E+20	9,882968E+20	1,350091E+21	1,350084E+21	9,882693E+20	3,695749E+20	7,950490E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952688E+18
-246	3,696537E+20	9,882886E+20	1,350029E+21	1,350006E+21	9,882520E+20	3,696199E+20	7,948279E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948617E+18
-245	3,695728E+20	9,882104E+20	1,350011E+21	1,350036E+21	9,882732E+20	3,696395E+20	7,955768E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953096E+18
-244	3,695996E+20	9,882526E+20	1,350021E+21	1,349990E+21	9,881827E+20	3,695470E+20	7,949561E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,951078E+18
-243	3,696028E+20	9,881638E+20	1,349880E+21	1,349898E+21	9,881832E+20	3,696073E+20	7,951650E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950055E+18
-242	3,695229E+20	9,881165E+20	1,349883E+21	1,349895E+21	9,881549E+20	3,695668E+20	7,954640E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955360E+18
-241	3,695933E+20	9,881531E+20	1,349857E+21	1,349811E+21	9,880612E+20	3,695137E+20	7,948625E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952099E+18
-240	3,695550E+20	9,880549E+20	1,349755E+21	1,349783E+21	9,880993E+20	3,695850E+20	7,954894E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,951758E+18
-239	3,695098E+20	9,880763E+20	1,349806E+21	1,349794E+21	9,880569E+20	3,695088E+20	7,952710E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955495E+18
-238	3,695699E+20	9,880732E+20	1,349750E+21	1,349722E+21	9,880239E+20	3,695269E+20	7,951036E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950214E+18
-237	3,695003E+20	9,879875E+20	1,349713E+21	1,349767E+21	9,880903E+20	3,695780E+20	7,956313E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953170E+18
-236	3,695206E+20	9,880673E+20	1,349782E+21	1,349773E+21	9,880370E+20	3,694932E+20	7,951350E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,954807E+18
-235	3,695750E+20	9,880596E+20	1,349724E+21	1,349732E+21	9,880662E+20	3,695607E+20	7,951513E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,949490E+18
-234	3,695116E+20	9,880637E+20	1,349809E+21	1,349826E+21	9,881143E+20	3,695695E+20	7,954836E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955947E+18
-233	3,695867E+20	9,881704E+20	1,349891E+21	1,349850E+21	9,880812E+20	3,695159E+20	7,950013E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,951354E+18
-232	3,695852E+20	9,881331E+20	1,349856E+21	1,349884E+21	9,881736E+20	3,696072E+20	7,951960E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950060E+18
-231	3,695353E+20	9,881648E+20	1,349949E+21	1,349955E+21	9,881888E+20	3,695656E+20	7,953389E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955301E+18
-230	3,696172E+20	9,882086E+20	1,349944E+21	1,349920E+21	9,881589E+20	3,695610E+20	7,948449E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,948994E+18
-229	3,695747E+20	9,881478E+20	1,349901E+21	1,349952E+21	9,882307E+20	3,696337E+20	7,954200E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952134E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-228	3,695604E+20	9,882049E+20	1,349971E+21	1,349960E+21	9,881769E+20	3,695486E+20	7,952184E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953132E+18
-227	3,696147E+20	9,881851E+20	1,349893E+21	1,349872E+21	9,881481E+20	3,695812E+20	7,949316E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,949028E+18
-226	3,695307E+20	9,881048E+20	1,349870E+21	1,349895E+21	9,881661E+20	3,695989E+20	7,956297E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,954312E+18
-225	3,695624E+20	9,881431E+20	1,349873E+21	1,349847E+21	9,880758E+20	3,695042E+20	7,949648E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952936E+18
-224	3,695763E+20	9,880723E+20	1,349745E+21	1,349758E+21	9,880784E+20	3,695655E+20	7,951911E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,951391E+18
-223	3,694962E+20	9,880300E+20	1,349753E+21	1,349760E+21	9,880551E+20	3,695293E+20	7,955073E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955970E+18
-222	3,695558E+20	9,880551E+20	1,349723E+21	1,349679E+21	9,879651E+20	3,694818E+20	7,949839E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952502E+18
-221	3,695169E+20	9,879598E+20	1,349624E+21	1,349659E+21	9,880126E+20	3,695585E+20	7,956569E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,951595E+18
-220	3,694612E+20	9,879642E+20	1,349673E+21	1,349673E+21	9,879707E+20	3,694812E+20	7,954182E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,956415E+18
-219	3,695336E+20	9,879626E+20	1,349599E+21	1,349581E+21	9,879270E+20	3,694899E+20	7,951536E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,951157E+18
-218	3,694732E+20	9,879010E+20	1,349579E+21	1,349624E+21	9,879875E+20	3,695408E+20	7,956305E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,954702E+18
-217	3,694995E+20	9,879936E+20	1,349668E+21	1,349649E+21	9,879422E+20	3,694575E+20	7,951589E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,956044E+18
-216	3,695561E+20	9,880033E+20	1,349640E+21	1,349630E+21	9,879819E+20	3,695282E+20	7,951954E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,949927E+18
-215	3,694836E+20	9,879967E+20	1,349726E+21	1,349741E+21	9,880433E+20	3,695408E+20	7,955429E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955965E+18
-214	3,695485E+20	9,880797E+20	1,349784E+21	1,349759E+21	9,880177E+20	3,694918E+20	7,950839E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,951605E+18
-213	3,695532E+20	9,880467E+20	1,349736E+21	1,349779E+21	9,881090E+20	3,695874E+20	7,953095E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950292E+18
-212	3,694990E+20	9,880718E+20	1,349830E+21	1,349844E+21	9,881136E+20	3,695431E+20	7,954615E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,956132E+18
-211	3,695885E+20	9,881187E+20	1,349811E+21	1,349785E+21	9,880655E+20	3,695277E+20	7,949076E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,949708E+18
-210	3,695449E+20	9,880666E+20	1,349779E+21	1,349813E+21	9,881255E+20	3,695980E+20	7,954878E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953184E+18
-209	3,695269E+20	9,881111E+20	1,349847E+21	1,349833E+21	9,880749E+20	3,695087E+20	7,952635E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,954434E+18
-208	3,695834E+20	9,880926E+20	1,349766E+21	1,349742E+21	9,880478E+20	3,695393E+20	7,949760E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950260E+18
-207	3,694987E+20	9,880064E+20	1,349735E+21	1,349761E+21	9,880668E+20	3,695581E+20	7,956499E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955177E+18
-206	3,695276E+20	9,880397E+20	1,349727E+21	1,349704E+21	9,879754E+20	3,694682E+20	7,950311E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953909E+18
-205	3,695449E+20	9,879816E+20	1,349606E+21	1,349617E+21	9,879831E+20	3,695368E+20	7,953570E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,951426E+18
-204	3,694518E+20	9,879283E+20	1,349627E+21	1,349634E+21	9,879619E+20	3,695019E+20	7,956769E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,956384E+18
-203	3,695119E+20	9,879423E+20	1,349578E+21	1,349542E+21	9,878656E+20	3,694453E+20	7,950973E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952960E+18
-202	3,694744E+20	9,878515E+20	1,349480E+21	1,349515E+21	9,879101E+20	3,695211E+20	7,956986E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952786E+18
-201	3,694268E+20	9,878572E+20	1,349531E+21	1,349535E+21	9,878707E+20	3,694420E+20	7,954268E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958014E+18
-200	3,695108E+20	9,878821E+20	1,349477E+21	1,349452E+21	9,878301E+20	3,694512E+20	7,951682E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952251E+18
-199	3,694527E+20	9,878335E+20	1,349476E+21	1,349510E+21	9,878995E+20	3,695070E+20	7,956497E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955136E+18
-198	3,694701E+20	9,879193E+20	1,349569E+21	1,349545E+21	9,878651E+20	3,694327E+20	7,952740E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,956191E+18
-197	3,695253E+20	9,879290E+20	1,349544E+21	1,349540E+21	9,879183E+20	3,695084E+20	7,953467E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,949708E+18
-196	3,694431E+20	9,879041E+20	1,349621E+21	1,349650E+21	9,879808E+20	3,695206E+20	7,956715E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,956653E+18
-195	3,695154E+20	9,879806E+20	1,349650E+21	1,349638E+21	9,879382E+20	3,694611E+20	7,951312E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952405E+18
-194	3,695266E+20	9,879650E+20	1,349612E+21	1,349643E+21	9,880132E+20	3,695536E+20	7,953195E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,951727E+18
-193	3,694750E+20	9,879885E+20	1,349709E+21	1,349714E+21	9,880176E+20	3,695082E+20	7,955014E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957189E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-192	3,695628E+20	9,880467E+20	1,349706E+21	1,349665E+21	9,879697E+20	3,694910E+20	7,949586E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950516E+18
-191	3,695140E+20	9,879828E+20	1,349669E+21	1,349698E+21	9,880326E+20	3,695596E+20	7,955306E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953577E+18
-190	3,694873E+20	9,880056E+20	1,349712E+21	1,349706E+21	9,879871E+20	3,694765E+20	7,953325E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955184E+18
-189	3,695498E+20	9,879940E+20	1,349629E+21	1,349613E+21	9,879602E+20	3,695089E+20	7,950939E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950785E+18
-188	3,694605E+20	9,879043E+20	1,349600E+21	1,349630E+21	9,879749E+20	3,695278E+20	7,957667E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955904E+18
-187	3,694920E+20	9,879368E+20	1,349579E+21	1,349555E+21	9,878723E+20	3,694327E+20	7,951333E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,954547E+18
-186	3,695066E+20	9,878863E+20	1,349475E+21	1,349469E+21	9,878714E+20	3,695005E+20	7,954633E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952327E+18
-185	3,694115E+20	9,878162E+20	1,349489E+21	1,349499E+21	9,878592E+20	3,694631E+20	7,957447E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957491E+18
-184	3,694755E+20	9,878391E+20	1,349439E+21	1,349404E+21	9,877650E+20	3,694049E+20	7,951429E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,954322E+18
-183	3,694446E+20	9,877537E+20	1,349342E+21	1,349375E+21	9,878083E+20	3,694799E+20	7,956922E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953671E+18
-182	3,693978E+20	9,877643E+20	1,349395E+21	1,349399E+21	9,877766E+20	3,694096E+20	7,954850E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958791E+18
-181	3,694854E+20	9,878078E+20	1,349367E+21	1,349337E+21	9,877480E+20	3,694261E+20	7,953188E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952056E+18
-180	3,694163E+20	9,877537E+20	1,349383E+21	1,349416E+21	9,878260E+20	3,694845E+20	7,957895E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955322E+18
-179	3,694331E+20	9,878271E+20	1,349454E+21	1,349440E+21	9,877909E+20	3,694056E+20	7,953789E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,956482E+18
-178	3,694905E+20	9,878413E+20	1,349431E+21	1,349425E+21	9,878377E+20	3,694791E+20	7,953639E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950983E+18
-177	3,694170E+20	9,878129E+20	1,349500E+21	1,349534E+21	9,878992E+20	3,694880E+20	7,956660E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958069E+18
-176	3,694961E+20	9,879097E+20	1,349538E+21	1,349518E+21	9,878505E+20	3,694261E+20	7,951296E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953542E+18
-175	3,695066E+20	9,878977E+20	1,349509E+21	1,349525E+21	9,879227E+20	3,695191E+20	7,953335E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952221E+18
-174	3,694451E+20	9,879075E+20	1,349601E+21	1,349600E+21	9,879314E+20	3,694802E+20	7,956071E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957408E+18
-173	3,695285E+20	9,879581E+20	1,349593E+21	1,349559E+21	9,878905E+20	3,694652E+20	7,951193E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,950543E+18
-172	3,694720E+20	9,878790E+20	1,349544E+21	1,349583E+21	9,879514E+20	3,695315E+20	7,956502E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,954296E+18
-171	3,694509E+20	9,878965E+20	1,349560E+21	1,349559E+21	9,878881E+20	3,694415E+20	7,954073E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,956007E+18
-170	3,695167E+20	9,878999E+20	1,349490E+21	1,349459E+21	9,878485E+20	3,694708E+20	7,951538E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952069E+18
-169	3,694275E+20	9,878044E+20	1,349463E+21	1,349487E+21	9,878677E+20	3,694895E+20	7,958386E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,956697E+18
-168	3,694551E+20	9,878420E+20	1,349452E+21	1,349420E+21	9,877665E+20	3,693929E+20	7,952133E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955491E+18
-167	3,694667E+20	9,877797E+20	1,349341E+21	1,349336E+21	9,877694E+20	3,694597E+20	7,955169E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952912E+18
-166	3,693702E+20	9,876980E+20	1,349335E+21	1,349357E+21	9,877631E+20	3,694291E+20	7,958033E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958395E+18
-165	3,694417E+20	9,877353E+20	1,349295E+21	1,349269E+21	9,876725E+20	3,693740E+20	7,952613E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,954916E+18
-164	3,694118E+20	9,876605E+20	1,349214E+21	1,349248E+21	9,877178E+20	3,694490E+20	7,957747E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,954342E+18
-163	3,693682E+20	9,876777E+20	1,349267E+21	1,349265E+21	9,876816E+20	3,693788E+20	7,955839E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,959276E+18
-162	3,694541E+20	9,877327E+20	1,349265E+21	1,349219E+21	9,876542E+20	3,693944E+20	7,954006E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952860E+18
-161	3,693846E+20	9,876638E+20	1,349274E+21	1,349313E+21	9,877463E+20	3,694528E+20	7,958340E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,956263E+18
-160	3,694049E+20	9,877458E+20	1,349342E+21	1,349331E+21	9,877132E+20	3,693737E+20	7,954023E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957693E+18
-159	3,694676E+20	9,877639E+20	1,349320E+21	1,349310E+21	9,877527E+20	3,694445E+20	7,953345E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,951841E+18
-158	3,693937E+20	9,877328E+20	1,349381E+21	1,349415E+21	9,878178E+20	3,694617E+20	7,957246E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958508E+18
-157	3,694694E+20	9,878367E+20	1,349438E+21	1,349415E+21	9,877745E+20	3,694044E+20	7,952789E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953288E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\ominus$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
-156	3,694695E+20	9,878149E+20	1,349412E+21	1,349429E+21	9,878459E+20	3,694945E+20	7,954677E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952317E+18
-155	3,694052E+20	9,878075E+20	1,349471E+21	1,349479E+21	9,878465E+20	3,694517E+20	7,957259E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957651E+18
-154	3,694907E+20	9,878619E+20	1,349465E+21	1,349425E+21	9,877945E+20	3,694315E+20	7,951717E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,951833E+18
-153	3,694406E+20	9,877766E+20	1,349406E+21	1,349450E+21	9,878532E+20	3,694931E+20	7,956765E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955575E+18
-152	3,694245E+20	9,878116E+20	1,349428E+21	1,349419E+21	9,877858E+20	3,694023E+20	7,954320E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957328E+18
-151	3,694882E+20	9,878138E+20	1,349367E+21	1,349322E+21	9,877417E+20	3,694304E+20	7,951938E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952893E+18
-150	3,693915E+20	9,877018E+20	1,349328E+21	1,349353E+21	9,877691E+20	3,694562E+20	7,959404E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957164E+18
-149	3,694135E+20	9,877310E+20	1,349314E+21	1,349295E+21	9,876755E+20	3,693624E+20	7,953682E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,956010E+18
-148	3,694230E+20	9,876633E+20	1,349195E+21	1,349201E+21	9,876739E+20	3,694260E+20	7,956193E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953749E+18
-147	3,693347E+20	9,875864E+20	1,349171E+21	1,349197E+21	9,876536E+20	3,693923E+20	7,958719E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,959249E+18
-146	3,694108E+20	9,876474E+20	1,349159E+21	1,349116E+21	9,875605E+20	3,693370E+20	7,953354E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955998E+18
-145	3,693827E+20	9,875754E+20	1,349097E+21	1,349123E+21	9,876194E+20	3,694127E+20	7,958316E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955043E+18
-144	3,693389E+20	9,876031E+20	1,349163E+21	1,349153E+21	9,875918E+20	3,693449E+20	7,956538E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960111E+18
-143	3,694214E+20	9,876474E+20	1,349160E+21	1,349118E+21	9,875741E+20	3,693606E+20	7,954233E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953418E+18
-142	3,693529E+20	9,875714E+20	1,349154E+21	1,349206E+21	9,876736E+20	3,694264E+20	7,958659E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,956894E+18
-141	3,693761E+20	9,876602E+20	1,349229E+21	1,349229E+21	9,876426E+20	3,693515E+20	7,955145E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957866E+18
-140	3,694368E+20	9,876844E+20	1,349213E+21	1,349207E+21	9,876790E+20	3,694214E+20	7,954180E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952130E+18
-139	3,693640E+20	9,876522E+20	1,349261E+21	1,349291E+21	9,877309E+20	3,694372E+20	7,958566E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958578E+18
-138	3,694349E+20	9,877579E+20	1,349332E+21	1,349298E+21	9,876835E+20	3,693757E+20	7,953854E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,954019E+18
-137	3,694357E+20	9,877198E+20	1,349292E+21	1,349318E+21	9,877599E+20	3,694594E+20	7,955174E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953494E+18
-136	3,693772E+20	9,877203E+20	1,349343E+21	1,349351E+21	9,877523E+20	3,694136E+20	7,957418E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,959137E+18
-135	3,694659E+20	9,877763E+20	1,349339E+21	1,349294E+21	9,876927E+20	3,693891E+20	7,951461E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953115E+18
-134	3,694143E+20	9,876885E+20	1,349274E+21	1,349315E+21	9,877554E+20	3,694591E+20	7,957379E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,956186E+18
-133	3,693902E+20	9,877207E+20	1,349309E+21	1,349300E+21	9,876945E+20	3,693748E+20	7,955940E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957404E+18
-132	3,694431E+20	9,877093E+20	1,349241E+21	1,349205E+21	9,876512E+20	3,693999E+20	7,953375E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953289E+18
-131	3,693464E+20	9,875809E+20	1,349165E+21	1,349205E+21	9,876688E+20	3,694234E+20	7,960606E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957654E+18
-130	3,693715E+20	9,876190E+20	1,349159E+21	1,349138E+21	9,875649E+20	3,693248E+20	7,954346E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957450E+18
-129	3,693899E+20	9,875549E+20	1,349042E+21	1,349051E+21	9,875632E+20	3,693833E+20	7,956560E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,954882E+18
-128	3,693087E+20	9,875040E+20	1,349037E+21	1,349051E+21	9,875440E+20	3,693520E+20	7,959048E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960386E+18
-127	3,693828E+20	9,875710E+20	1,349050E+21	1,348991E+21	9,874578E+20	3,692977E+20	7,953899E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,956598E+18
-126	3,693495E+20	9,874882E+20	1,348984E+21	1,349014E+21	9,875356E+20	3,693830E+20	7,959191E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955360E+18
-125	3,693019E+20	9,875090E+20	1,349053E+21	1,349060E+21	9,875244E+20	3,693233E+20	7,958001E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960483E+18
-124	3,693845E+20	9,875516E+20	1,349041E+21	1,349016E+21	9,875040E+20	3,693360E+20	7,955032E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953959E+18
-123	3,693228E+20	9,874790E+20	1,349015E+21	1,349075E+21	9,875882E+20	3,694000E+20	7,959399E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957320E+18
-122	3,693465E+20	9,875839E+20	1,349114E+21	1,349102E+21	9,875514E+20	3,693232E+20	7,955996E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958493E+18
-121	3,694066E+20	9,876039E+20	1,349106E+21	1,349097E+21	9,875910E+20	3,693890E+20	7,954826E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,952754E+18



1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-120	3,693363E+20	9,875798E+20	1,349156E+21	1,349181E+21	9,876427E+20	3,694035E+20	7,959154E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,959570E+18
-119	3,694057E+20	9,876762E+20	1,349222E+21	1,349189E+21	9,875980E+20	3,693391E+20	7,953851E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955137E+18
-118	3,694094E+20	9,876327E+20	1,349168E+21	1,349201E+21	9,876771E+20	3,694266E+20	7,955291E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,954606E+18
-117	3,693513E+20	9,876358E+20	1,349226E+21	1,349241E+21	9,876711E+20	3,693858E+20	7,958346E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,959664E+18
-116	3,694339E+20	9,876914E+20	1,349222E+21	1,349180E+21	9,876081E+20	3,693598E+20	7,952323E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953633E+18
-115	3,693779E+20	9,875934E+20	1,349137E+21	1,349175E+21	9,876559E+20	3,694300E+20	7,958955E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,956245E+18
-114	3,693457E+20	9,876168E+20	1,349174E+21	1,349162E+21	9,875919E+20	3,693426E+20	7,957339E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958117E+18
-113	3,693982E+20	9,875890E+20	1,349088E+21	1,349066E+21	9,875494E+20	3,693612E+20	7,954333E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,954517E+18
-112	3,693132E+20	9,874767E+20	1,349005E+21	1,349043E+21	9,875526E+20	3,693800E+20	7,960986E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,959089E+18
-111	3,693413E+20	9,875213E+20	1,349012E+21	1,348983E+21	9,874471E+20	3,692789E+20	7,954429E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958683E+18
-110	3,693607E+20	9,874653E+20	1,348908E+21	1,348911E+21	9,874581E+20	3,693445E+20	7,957139E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955420E+18
-109	3,692739E+20	9,874162E+20	1,348928E+21	1,348941E+21	9,874543E+20	3,693232E+20	7,960540E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960452E+18
-108	3,693398E+20	9,874739E+20	1,348938E+21	1,348893E+21	9,873823E+20	3,692707E+20	7,955231E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,956772E+18
-107	3,693075E+20	9,873818E+20	1,348844E+21	1,348889E+21	9,874546E+20	3,693572E+20	7,960261E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955709E+18
-106	3,692644E+20	9,874114E+20	1,348921E+21	1,348930E+21	9,874380E+20	3,692954E+20	7,958728E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961543E+18
-105	3,693542E+20	9,874580E+20	1,348911E+21	1,348893E+21	9,874179E+20	3,693026E+20	7,955307E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955043E+18
-104	3,693037E+20	9,874120E+20	1,348897E+21	1,348944E+21	9,874934E+20	3,693653E+20	7,959544E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958507E+18
-103	3,693240E+20	9,875174E+20	1,349017E+21	1,348991E+21	9,874599E+20	3,692872E+20	7,956252E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,959319E+18
-102	3,693806E+20	9,875290E+20	1,349006E+21	1,348998E+21	9,875127E+20	3,693573E+20	7,955256E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953497E+18
-101	3,693072E+20	9,874982E+20	1,349057E+21	1,349090E+21	9,875728E+20	3,693784E+20	7,960216E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960195E+18
-100	3,693751E+20	9,875916E+20	1,349111E+21	1,349086E+21	9,875251E+20	3,693121E+20	7,954470E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955759E+18
-99	3,693798E+20	9,875451E+20	1,349034E+21	1,349067E+21	9,875877E+20	3,693988E+20	7,956303E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,954942E+18
-98	3,693174E+20	9,875522E+20	1,349106E+21	1,349109E+21	9,875770E+20	3,693577E+20	7,959580E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960021E+18
-97	3,693929E+20	9,875916E+20	1,349095E+21	1,349056E+21	9,875132E+20	3,693260E+20	7,953499E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,954308E+18
-96	3,693395E+20	9,874936E+20	1,348997E+21	1,349035E+21	9,875526E+20	3,693921E+20	7,959893E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957209E+18
-95	3,693064E+20	9,875064E+20	1,349029E+21	1,349020E+21	9,874850E+20	3,692992E+20	7,957495E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,959429E+18
-94	3,693639E+20	9,874796E+20	1,348934E+21	1,348916E+21	9,874420E+20	3,693192E+20	7,954650E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955714E+18
-93	3,692819E+20	9,873788E+20	1,348870E+21	1,348907E+21	9,874509E+20	3,693441E+20	7,961843E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,959727E+18
-92	3,693075E+20	9,874314E+20	1,348887E+21	1,348854E+21	9,873517E+20	3,692460E+20	7,955430E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,959140E+18
-91	3,693225E+20	9,873695E+20	1,348775E+21	1,348774E+21	9,873591E+20	3,693140E+20	7,958676E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955534E+18
-90	3,692319E+20	9,873167E+20	1,348803E+21	1,348817E+21	9,873645E+20	3,692935E+20	7,961764E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961209E+18
-89	3,692985E+20	9,873622E+20	1,348799E+21	1,348772E+21	9,872983E+20	3,692373E+20	7,956013E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958053E+18
-88	3,692808E+20	9,872916E+20	1,348704E+21	1,348747E+21	9,873565E+20	3,693199E+20	7,960273E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957167E+18
-87	3,692415E+20	9,873301E+20	1,348799E+21	1,348798E+21	9,873391E+20	3,692562E+20	7,958596E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,962645E+18
-86	3,693312E+20	9,873857E+20	1,348803E+21	1,348776E+21	9,873300E+20	3,692697E+20	7,955628E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955557E+18
-85	3,692767E+20	9,873424E+20	1,348812E+21	1,348853E+21	9,874171E+20	3,693400E+20	7,960663E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958740E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-84	3,692908E+20	9,874380E+20	1,348923E+21	1,348906E+21	9,873960E+20	3,692640E+20	7,957296E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,959479E+18
-83	3,693461E+20	9,874396E+20	1,348887E+21	1,348885E+21	9,874385E+20	3,693332E+20	7,956246E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,953882E+18
-82	3,692753E+20	9,874124E+20	1,348939E+21	1,348971E+21	9,874926E+20	3,693523E+20	7,961091E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960799E+18
-81	3,693420E+20	9,875001E+20	1,348987E+21	1,348969E+21	9,874437E+20	3,692816E+20	7,955170E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,956588E+18
-80	3,693535E+20	9,874690E+20	1,348911E+21	1,348929E+21	9,874876E+20	3,693639E+20	7,957002E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955860E+18
-79	3,692841E+20	9,874609E+20	1,348986E+21	1,348981E+21	9,874752E+20	3,693192E+20	7,960188E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960759E+18
-78	3,693547E+20	9,874873E+20	1,348961E+21	1,348929E+21	9,874196E+20	3,692885E+20	7,954068E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955496E+18
-77	3,693035E+20	9,873864E+20	1,348860E+21	1,348903E+21	9,874560E+20	3,693567E+20	7,960838E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958221E+18
-76	3,692724E+20	9,874008E+20	1,348882E+21	1,348878E+21	9,873854E+20	3,692623E+20	7,957958E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960297E+18
-75	3,693295E+20	9,873780E+20	1,348780E+21	1,348756E+21	9,873297E+20	3,692820E+20	7,955767E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,956163E+18
-74	3,692448E+20	9,872860E+20	1,348739E+21	1,348762E+21	9,873442E+20	3,693092E+20	7,962991E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960050E+18
-73	3,692638E+20	9,873262E+20	1,348756E+21	1,348729E+21	9,872576E+20	3,692118E+20	7,956692E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,959995E+18
-72	3,692856E+20	9,872704E+20	1,348638E+21	1,348637E+21	9,872609E+20	3,692768E+20	7,959393E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,956719E+18
-71	3,691979E+20	9,872134E+20	1,348668E+21	1,348686E+21	9,872686E+20	3,692544E+20	7,961718E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,962571E+18
-70	3,692697E+20	9,872664E+20	1,348664E+21	1,348642E+21	9,872083E+20	3,692011E+20	7,956062E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,959235E+18
-69	3,692561E+20	9,872116E+20	1,348594E+21	1,348631E+21	9,872705E+20	3,692899E+20	7,960807E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957736E+18
-68	3,692153E+20	9,872570E+20	1,348698E+21	1,348691E+21	9,872606E+20	3,692304E+20	7,959482E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,962667E+18
-67	3,692974E+20	9,873051E+20	1,348695E+21	1,348664E+21	9,872486E+20	3,692462E+20	7,957157E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955393E+18
-66	3,692415E+20	9,872600E+20	1,348710E+21	1,348752E+21	9,873449E+20	3,693162E+20	7,961839E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,959234E+18
-65	3,692558E+20	9,873434E+20	1,348804E+21	1,348800E+21	9,873249E+20	3,692381E+20	7,958263E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960477E+18
-64	3,693230E+20	9,873605E+20	1,348763E+21	1,348755E+21	9,873474E+20	3,692990E+20	7,956411E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955178E+18
-63	3,692526E+20	9,873352E+20	1,348826E+21	1,348848E+21	9,873977E+20	3,693141E+20	7,961034E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961685E+18
-62	3,693137E+20	9,874190E+20	1,348874E+21	1,348850E+21	9,873539E+20	3,692469E+20	7,955529E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957267E+18
-61	3,693190E+20	9,873811E+20	1,348808E+21	1,348821E+21	9,874006E+20	3,693334E+20	7,958084E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,956428E+18
-60	3,692467E+20	9,873587E+20	1,348859E+21	1,348865E+21	9,873932E+20	3,692890E+20	7,961024E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961155E+18
-59	3,693138E+20	9,873749E+20	1,348808E+21	1,348781E+21	9,873210E+20	3,692563E+20	7,955136E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,956292E+18
-58	3,692687E+20	9,872833E+20	1,348713E+21	1,348753E+21	9,873513E+20	3,693199E+20	7,961605E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958996E+18
-57	3,692367E+20	9,872971E+20	1,348736E+21	1,348732E+21	9,872819E+20	3,692254E+20	7,958734E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961375E+18
-56	3,692998E+20	9,872907E+20	1,348645E+21	1,348602E+21	9,872138E+20	3,692406E+20	7,956607E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957185E+18
-55	3,692097E+20	9,871901E+20	1,348615E+21	1,348631E+21	9,872366E+20	3,692667E+20	7,963441E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960902E+18
-54	3,692251E+20	9,872200E+20	1,348622E+21	1,348603E+21	9,871671E+20	3,691755E+20	7,957300E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961274E+18
-53	3,692503E+20	9,871671E+20	1,348510E+21	1,348512E+21	9,871712E+20	3,692447E+20	7,960208E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957750E+18
-52	3,691686E+20	9,871153E+20	1,348532E+21	1,348557E+21	9,871811E+20	3,692235E+20	7,962180E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,962985E+18
-51	3,692359E+20	9,871745E+20	1,348530E+21	1,348503E+21	9,871131E+20	3,691729E+20	7,957312E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,959303E+18
-50	3,692225E+20	9,871304E+20	1,348482E+21	1,348508E+21	9,871806E+20	3,692625E+20	7,962019E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957631E+18
-49	3,691757E+20	9,871648E+20	1,348586E+21	1,348587E+21	9,871842E+20	3,692053E+20	7,960885E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963170E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-48	3,692666E+20	9,872218E+20	1,348581E+21	1,348548E+21	9,871637E+20	3,692140E+20	7,957752E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,956437E+18
-47	3,692149E+20	9,871753E+20	1,348597E+21	1,348640E+21	9,872589E+20	3,692798E+20	7,961596E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960539E+18
-46	3,692332E+20	9,872631E+20	1,348689E+21	1,348688E+21	9,872465E+20	3,692052E+20	7,958143E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961649E+18
-45	3,693013E+20	9,872910E+20	1,348667E+21	1,348648E+21	9,872660E+20	3,692693E+20	7,956723E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,956036E+18
-44	3,692282E+20	9,872603E+20	1,348723E+21	1,348741E+21	9,873185E+20	3,692868E+20	7,961763E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961603E+18
-43	3,692741E+20	9,873250E+20	1,348755E+21	1,348731E+21	9,872667E+20	3,692204E+20	7,956965E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957449E+18
-42	3,692789E+20	9,872791E+20	1,348678E+21	1,348696E+21	9,873125E+20	3,693037E+20	7,959313E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957052E+18
-41	3,692072E+20	9,872461E+20	1,348709E+21	1,348725E+21	9,872999E+20	3,692574E+20	7,962024E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,962311E+18
-40	3,692857E+20	9,872790E+20	1,348656E+21	1,348618E+21	9,872041E+20	3,692140E+20	7,955611E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957672E+18
-39	3,692406E+20	9,871929E+20	1,348580E+21	1,348605E+21	9,872338E+20	3,692735E+20	7,961715E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,959887E+18
-38	3,692031E+20	9,872039E+20	1,348609E+21	1,348597E+21	9,871782E+20	3,691864E+20	7,959306E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,962232E+18
-37	3,692601E+20	9,871922E+20	1,348532E+21	1,348486E+21	9,871192E+20	3,692060E+20	7,957775E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957970E+18
-36	3,691711E+20	9,870819E+20	1,348481E+21	1,348510E+21	9,871523E+20	3,692353E+20	7,964157E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961178E+18
-35	3,691813E+20	9,871043E+20	1,348469E+21	1,348459E+21	9,870726E+20	3,691470E+20	7,958583E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961920E+18
-34	3,692139E+20	9,870643E+20	1,348367E+21	1,348373E+21	9,870768E+20	3,692141E+20	7,961211E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958150E+18
-33	3,691343E+20	9,870180E+20	1,348394E+21	1,348422E+21	9,870885E+20	3,691945E+20	7,963239E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963667E+18
-32	3,692069E+20	9,870928E+20	1,348406E+21	1,348365E+21	9,870088E+20	3,691378E+20	7,958246E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960089E+18
-31	3,691932E+20	9,870492E+20	1,348378E+21	1,348399E+21	9,870865E+20	3,692227E+20	7,962053E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958673E+18
-30	3,691481E+20	9,870804E+20	1,348474E+21	1,348482E+21	9,871063E+20	3,691728E+20	7,961100E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964563E+18
-29	3,692427E+20	9,871449E+20	1,348482E+21	1,348447E+21	9,870864E+20	3,691838E+20	7,957973E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957665E+18
-28	3,691966E+20	9,871047E+20	1,348492E+21	1,348535E+21	9,871837E+20	3,692512E+20	7,961702E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960727E+18
-27	3,692025E+20	9,871862E+20	1,348578E+21	1,348571E+21	9,871648E+20	3,691820E+20	7,959349E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961502E+18
-26	3,692660E+20	9,872108E+20	1,348563E+21	1,348541E+21	9,871864E+20	3,692452E+20	7,958003E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,955964E+18
-25	3,691868E+20	9,871597E+20	1,348599E+21	1,348631E+21	9,872415E+20	3,692630E+20	7,963285E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,962087E+18
-24	3,692378E+20	9,872240E+20	1,348616E+21	1,348594E+21	9,871695E+20	3,691861E+20	7,957712E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958675E+18
-23	3,692480E+20	9,871798E+20	1,348541E+21	1,348558E+21	9,872043E+20	3,692593E+20	7,959206E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958466E+18
-22	3,691797E+20	9,871522E+20	1,348569E+21	1,348584E+21	9,871955E+20	3,692167E+20	7,962095E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963544E+18
-21	3,692568E+20	9,871957E+20	1,348539E+21	1,348486E+21	9,870997E+20	3,691760E+20	7,956273E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958691E+18
-20	3,692096E+20	9,871041E+20	1,348459E+21	1,348479E+21	9,871370E+20	3,692388E+20	7,962616E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,959779E+18
-19	3,691564E+20	9,870945E+20	1,348472E+21	1,348467E+21	9,870837E+20	3,691577E+20	7,960962E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,962682E+18
-18	3,692153E+20	9,870762E+20	1,348384E+21	1,348353E+21	9,870276E+20	3,691757E+20	7,959287E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958664E+18
-17	3,691296E+20	9,869606E+20	1,348316E+21	1,348363E+21	9,870573E+20	3,692048E+20	7,965231E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,962252E+18
-16	3,691497E+20	9,870027E+20	1,348313E+21	1,348295E+21	9,869554E+20	3,691060E+20	7,959146E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963183E+18
-15	3,691848E+20	9,869752E+20	1,348237E+21	1,348229E+21	9,869599E+20	3,691684E+20	7,961217E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958963E+18
-14	3,691041E+20	9,869340E+20	1,348276E+21	1,348298E+21	9,869911E+20	3,691579E+20	7,963603E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964570E+18
-13	3,691751E+20	9,870134E+20	1,348309E+21	1,348264E+21	9,869263E+20	3,691060E+20	7,959014E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961024E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-12	3,691670E+20	9,869690E+20	1,348272E+21	1,348302E+21	9,870162E+20	3,691938E+20	7,962227E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,959014E+18
-11	3,691163E+20	9,869951E+20	1,348358E+21	1,348372E+21	9,870324E+20	3,691504E+20	7,962087E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965077E+18
-10	3,692146E+20	9,870665E+20	1,348372E+21	1,348344E+21	9,870150E+20	3,691602E+20	7,958830E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957842E+18
-9	3,691660E+20	9,870247E+20	1,348379E+21	1,348426E+21	9,871102E+20	3,692303E+20	7,962907E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961002E+18
-8	3,691704E+20	9,871058E+20	1,348465E+21	1,348449E+21	9,870718E+20	3,691521E+20	7,960458E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961974E+18
-7	3,692310E+20	9,871212E+20	1,348450E+21	1,348430E+21	9,870927E+20	3,692071E+20	7,958288E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957071E+18
-6	3,691559E+20	9,870634E+20	1,348464E+21	1,348506E+21	9,871522E+20	3,692283E+20	7,963684E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963557E+18
-5	3,692102E+20	9,871349E+20	1,348490E+21	1,348464E+21	9,870725E+20	3,691498E+20	7,958024E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960246E+18
-4	3,692265E+20	9,870983E+20	1,348414E+21	1,348426E+21	9,871054E+20	3,692200E+20	7,959368E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958814E+18
-3	3,691438E+20	9,870618E+20	1,348439E+21	1,348445E+21	9,870932E+20	3,691857E+20	7,963423E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963594E+18
-2	3,692143E+20	9,870971E+20	1,348414E+21	1,348365E+21	9,870073E+20	3,691456E+20	7,957896E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958825E+18
-1	3,691617E+20	9,869892E+20	1,348315E+21	1,348351E+21	9,870484E+20	3,692106E+20	7,964289E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960387E+18
1	3,691135E+20	9,869758E+20	1,348311E+21	1,348311E+21	9,869755E+20	3,691209E+20	7,961911E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964038E+18
2	3,691792E+20	9,869648E+20	1,348229E+21	1,348202E+21	9,869131E+20	3,691297E+20	7,959282E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960256E+18
3	3,691023E+20	9,868622E+20	1,348164E+21	1,348210E+21	9,869482E+20	3,691629E+20	7,965219E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963569E+18
4	3,691213E+20	9,869206E+20	1,348194E+21	1,348160E+21	9,868494E+20	3,690679E+20	7,959705E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964248E+18
5	3,691575E+20	9,868971E+20	1,348129E+21	1,348114E+21	9,868663E+20	3,691319E+20	7,961735E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958800E+18
6	3,690642E+20	9,868427E+20	1,348161E+21	1,348187E+21	9,869086E+20	3,691321E+20	7,964969E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964954E+18
7	3,691389E+20	9,869207E+20	1,348190E+21	1,348163E+21	9,868576E+20	3,690830E+20	7,960401E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961431E+18
8	3,691346E+20	9,868784E+20	1,348146E+21	1,348189E+21	9,869446E+20	3,691719E+20	7,963236E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,959763E+18
9	3,690900E+20	9,869153E+20	1,348236E+21	1,348243E+21	9,869411E+20	3,691207E+20	7,962874E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965766E+18
10	3,691857E+20	9,869905E+20	1,348267E+21	1,348232E+21	9,869218E+20	3,691235E+20	7,958937E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958509E+18
11	3,691358E+20	9,869435E+20	1,348268E+21	1,348316E+21	9,870261E+20	3,691982E+20	7,963368E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961864E+18
12	3,691370E+20	9,870207E+20	1,348359E+21	1,348345E+21	9,869901E+20	3,691203E+20	7,961040E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963156E+18
13	3,692041E+20	9,870342E+20	1,348329E+21	1,348315E+21	9,870098E+20	3,691727E+20	7,958396E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,957675E+18
14	3,691238E+20	9,869720E+20	1,348334E+21	1,348376E+21	9,870609E+20	3,691987E+20	7,964609E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964267E+18
15	3,691807E+20	9,870488E+20	1,348362E+21	1,348339E+21	9,869842E+20	3,691201E+20	7,959104E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960645E+18
16	3,691912E+20	9,870080E+20	1,348284E+21	1,348296E+21	9,870136E+20	3,691918E+20	7,960849E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,959253E+18
17	3,691052E+20	9,869641E+20	1,348307E+21	1,348306E+21	9,869854E+20	3,691490E+20	7,964606E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964287E+18
18	3,691721E+20	9,869876E+20	1,348276E+21	1,348234E+21	9,869008E+20	3,691019E+20	7,958326E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960312E+18
19	3,691251E+20	9,868760E+20	1,348156E+21	1,348202E+21	9,869456E+20	3,691712E+20	7,964725E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961982E+18
20	3,690814E+20	9,868736E+20	1,348166E+21	1,348161E+21	9,868657E+20	3,690803E+20	7,962255E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965626E+18
21	3,691526E+20	9,868740E+20	1,348090E+21	1,348056E+21	9,868050E+20	3,690878E+20	7,959598E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960430E+18
22	3,690641E+20	9,867693E+20	1,348033E+21	1,348070E+21	9,868439E+20	3,691309E+20	7,966473E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963622E+18
23	3,690802E+20	9,868242E+20	1,348072E+21	1,348047E+21	9,867650E+20	3,690403E+20	7,961406E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964265E+18
24	3,691146E+20	9,867959E+20	1,348003E+21	1,348003E+21	9,867913E+20	3,691075E+20	7,963181E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,959342E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
25	3,690293E+20	9,867456E+20	1,348031E+21	1,348059E+21	9,868183E+20	3,691011E+20	7,965736E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,966076E+18
26	3,691103E+20	9,868331E+20	1,348070E+21	1,348046E+21	9,867679E+20	3,690458E+20	7,960361E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,962683E+18
27	3,691125E+20	9,868024E+20	1,348027E+21	1,348069E+21	9,868606E+20	3,691391E+20	7,963191E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960887E+18
28	3,690659E+20	9,868474E+20	1,348141E+21	1,348134E+21	9,868561E+20	3,690899E+20	7,963360E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,966650E+18
29	3,691599E+20	9,869187E+20	1,348172E+21	1,348133E+21	9,868429E+20	3,690907E+20	7,959206E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958593E+18
30	3,691004E+20	9,868555E+20	1,348153E+21	1,348205E+21	9,869477E+20	3,691728E+20	7,964493E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,962537E+18
31	3,691048E+20	9,869263E+20	1,348233E+21	1,348233E+21	9,869174E+20	3,690961E+20	7,962252E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963783E+18
32	3,691739E+20	9,869456E+20	1,348199E+21	1,348189E+21	9,869248E+20	3,691447E+20	7,959422E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,958528E+18
33	3,690952E+20	9,868874E+20	1,348204E+21	1,348231E+21	9,869534E+20	3,691623E+20	7,965486E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964799E+18
34	3,691460E+20	9,869617E+20	1,348244E+21	1,348212E+21	9,868796E+20	3,690795E+20	7,959503E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961432E+18
35	3,691537E+20	9,869107E+20	1,348155E+21	1,348168E+21	9,869170E+20	3,691545E+20	7,961637E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960253E+18
36	3,690657E+20	9,868597E+20	1,348176E+21	1,348177E+21	9,868896E+20	3,691123E+20	7,965272E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965590E+18
37	3,691372E+20	9,868809E+20	1,348131E+21	1,348096E+21	9,868026E+20	3,690620E+20	7,958603E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961119E+18
38	3,690865E+20	9,867668E+20	1,348002E+21	1,348048E+21	9,868403E+20	3,691369E+20	7,965728E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,962669E+18
39	3,690458E+20	9,867695E+20	1,348019E+21	1,348020E+21	9,867688E+20	3,690486E+20	7,963531E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965898E+18
40	3,691123E+20	9,867751E+20	1,347954E+21	1,347916E+21	9,867061E+20	3,690574E+20	7,961252E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960729E+18
41	3,690241E+20	9,866687E+20	1,347900E+21	1,347931E+21	9,867358E+20	3,690936E+20	7,967604E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964256E+18
42	3,690415E+20	9,867221E+20	1,347943E+21	1,347924E+21	9,866691E+20	3,690015E+20	7,961872E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965736E+18
43	3,690853E+20	9,866996E+20	1,347867E+21	1,347873E+21	9,867027E+20	3,690718E+20	7,963327E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961005E+18
44	3,690077E+20	9,866680E+20	1,347916E+21	1,347935E+21	9,867271E+20	3,690656E+20	7,965720E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967567E+18
45	3,690909E+20	9,867642E+20	1,347964E+21	1,347932E+21	9,866830E+20	3,690109E+20	7,960415E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,962669E+18
46	3,690795E+20	9,867269E+20	1,347926E+21	1,347959E+21	9,867800E+20	3,691142E+20	7,964154E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960941E+18
47	3,690305E+20	9,867594E+20	1,348035E+21	1,348041E+21	9,867910E+20	3,690690E+20	7,964926E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,966466E+18
48	3,691200E+20	9,868239E+20	1,348053E+21	1,348028E+21	9,867757E+20	3,690704E+20	7,960555E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,959136E+18
49	3,690688E+20	9,867632E+20	1,348026E+21	1,348076E+21	9,868560E+20	3,691411E+20	7,965172E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963583E+18
50	3,690784E+20	9,868414E+20	1,348112E+21	1,348108E+21	9,868215E+20	3,690589E+20	7,962338E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964977E+18
51	3,691500E+20	9,868670E+20	1,348078E+21	1,348059E+21	9,868304E+20	3,691085E+20	7,959689E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,959639E+18
52	3,690675E+20	9,868128E+20	1,348101E+21	1,348110E+21	9,868556E+20	3,691257E+20	7,966058E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965575E+18
53	3,691121E+20	9,868725E+20	1,348130E+21	1,348098E+21	9,867898E+20	3,690417E+20	7,959990E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961718E+18
54	3,691098E+20	9,868009E+20	1,348017E+21	1,348036E+21	9,868268E+20	3,691244E+20	7,962939E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961167E+18
55	3,690276E+20	9,867409E+20	1,348019E+21	1,348041E+21	9,868019E+20	3,690835E+20	7,966585E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,966240E+18
56	3,690985E+20	9,867710E+20	1,347975E+21	1,347943E+21	9,867017E+20	3,690302E+20	7,959890E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,962053E+18
57	3,690511E+20	9,866639E+20	1,347851E+21	1,347882E+21	9,867164E+20	3,690951E+20	7,966679E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963197E+18
58	3,690074E+20	9,866690E+20	1,347884E+21	1,347874E+21	9,866524E+20	3,690054E+20	7,964019E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,966812E+18
59	3,690742E+20	9,866730E+20	1,347818E+21	1,347782E+21	9,866045E+20	3,690170E+20	7,961928E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961924E+18
60	3,689911E+20	9,865743E+20	1,347776E+21	1,347804E+21	9,866409E+20	3,690550E+20	7,967787E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965741E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
61	3,690155E+20	9,866340E+20	1,347821E+21	1,347804E+21	9,865831E+20	3,689650E+20	7,961918E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,966555E+18
62	3,690561E+20	9,866142E+20	1,347747E+21	1,347750E+21	9,866181E+20	3,690437E+20	7,963989E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961638E+18
63	3,689805E+20	9,865839E+20	1,347802E+21	1,347828E+21	9,866555E+20	3,690440E+20	7,966946E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967379E+18
64	3,690542E+20	9,866827E+20	1,347860E+21	1,347826E+21	9,866086E+20	3,689899E+20	7,961922E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,962621E+18
65	3,690419E+20	9,866364E+20	1,347813E+21	1,347841E+21	9,866896E+20	3,690845E+20	7,965195E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961353E+18
66	3,689959E+20	9,866649E+20	1,347914E+21	1,347926E+21	9,867073E+20	3,690377E+20	7,965443E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967622E+18
67	3,690938E+20	9,867353E+20	1,347925E+21	1,347901E+21	9,866891E+20	3,690373E+20	7,960841E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960632E+18
68	3,690501E+20	9,866928E+20	1,347916E+21	1,347951E+21	9,867601E+20	3,691033E+20	7,965170E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964873E+18
69	3,690574E+20	9,867727E+20	1,348008E+21	1,347992E+21	9,867311E+20	3,690223E+20	7,962528E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965013E+18
70	3,691133E+20	9,867824E+20	1,347972E+21	1,347944E+21	9,867427E+20	3,690790E+20	7,960733E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960008E+18
71	3,690279E+20	9,867082E+20	1,347977E+21	1,348004E+21	9,867818E+20	3,691007E+20	7,967570E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965539E+18
72	3,690660E+20	9,867598E+20	1,347989E+21	1,347970E+21	9,867079E+20	3,690159E+20	7,961334E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,962635E+18
73	3,690704E+20	9,866854E+20	1,347861E+21	1,347878E+21	9,867150E+20	3,690867E+20	7,963865E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,962303E+18
74	3,689951E+20	9,866332E+20	1,347863E+21	1,347883E+21	9,866872E+20	3,690415E+20	7,966815E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967502E+18
75	3,690669E+20	9,866716E+20	1,347825E+21	1,347783E+21	9,865864E+20	3,689881E+20	7,960461E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963365E+18
76	3,690209E+20	9,865773E+20	1,347728E+21	1,347739E+21	9,865992E+20	3,690492E+20	7,967025E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964202E+18
77	3,689745E+20	9,865755E+20	1,347761E+21	1,347748E+21	9,865520E+20	3,689640E+20	7,964404E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967361E+18
78	3,690339E+20	9,865693E+20	1,347687E+21	1,347655E+21	9,865152E+20	3,689857E+20	7,962999E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,962920E+18
79	3,689596E+20	9,864729E+20	1,347642E+21	1,347686E+21	9,865624E+20	3,690290E+20	7,968877E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,966077E+18
80	3,689809E+20	9,865431E+20	1,347692E+21	1,347677E+21	9,865017E+20	3,689419E+20	7,963299E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,966897E+18
81	3,690207E+20	9,865249E+20	1,347626E+21	1,347619E+21	9,865204E+20	3,690133E+20	7,965017E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961714E+18
82	3,689448E+20	9,864937E+20	1,347687E+21	1,347713E+21	9,865657E+20	3,690130E+20	7,967647E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967788E+18
83	3,690169E+20	9,865872E+20	1,347739E+21	1,347713E+21	9,865271E+20	3,689595E+20	7,962635E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963618E+18
84	3,690147E+20	9,865551E+20	1,347703E+21	1,347726E+21	9,866018E+20	3,690487E+20	7,965115E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,962836E+18
85	3,689763E+20	9,865902E+20	1,347803E+21	1,347814E+21	9,866230E+20	3,690028E+20	7,965365E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968370E+18
86	3,690695E+20	9,866619E+20	1,347817E+21	1,347788E+21	9,866073E+20	3,690086E+20	7,961332E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961452E+18
87	3,690267E+20	9,866170E+20	1,347811E+21	1,347850E+21	9,866866E+20	3,690793E+20	7,966296E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964754E+18
88	3,690205E+20	9,866901E+20	1,347903E+21	1,347887E+21	9,866548E+20	3,689999E+20	7,964017E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965115E+18
89	3,690712E+20	9,866796E+20	1,347846E+21	1,347820E+21	9,866476E+20	3,690463E+20	7,961841E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,960819E+18
90	3,689906E+20	9,865964E+20	1,347829E+21	1,347867E+21	9,866853E+20	3,690659E+20	7,968145E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,966813E+18
91	3,690323E+20	9,866502E+20	1,347832E+21	1,347815E+21	9,866008E+20	3,689772E+20	7,961777E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964425E+18
92	3,690452E+20	9,865961E+20	1,347720E+21	1,347720E+21	9,865927E+20	3,690401E+20	7,964040E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963570E+18
93	3,689672E+20	9,865469E+20	1,347733E+21	1,347737E+21	9,865730E+20	3,689979E+20	7,967124E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967661E+18
94	3,690251E+20	9,865731E+20	1,347697E+21	1,347649E+21	9,864820E+20	3,689522E+20	7,961733E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963852E+18
95	3,689792E+20	9,864658E+20	1,347592E+21	1,347623E+21	9,865152E+20	3,690196E+20	7,968468E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964188E+18
96	3,689296E+20	9,864662E+20	1,347623E+21	1,347623E+21	9,864691E+20	3,689386E+20	7,965773E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968148E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
97	3,689945E+20	9,864596E+20	1,347543E+21	1,347513E+21	9,864125E+20	3,689518E+20	7,964039E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963738E+18
98	3,689280E+20	9,863754E+20	1,347503E+21	1,347548E+21	9,864658E+20	3,689956E+20	7,969268E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,966795E+18
99	3,689474E+20	9,864528E+20	1,347564E+21	1,347544E+21	9,864063E+20	3,689097E+20	7,964123E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967796E+18
100	3,689909E+20	9,864458E+20	1,347517E+21	1,347499E+21	9,864207E+20	3,689747E+20	7,965277E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,962581E+18
101	3,689169E+20	9,864103E+20	1,347574E+21	1,347604E+21	9,864811E+20	3,689777E+20	7,967831E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968477E+18
102	3,689857E+20	9,864986E+20	1,347620E+21	1,347601E+21	9,864489E+20	3,689314E+20	7,963262E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964899E+18
103	3,689947E+20	9,864747E+20	1,347588E+21	1,347623E+21	9,865291E+20	3,690225E+20	7,965728E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963416E+18
104	3,689517E+20	9,865220E+20	1,347700E+21	1,347704E+21	9,865461E+20	3,689800E+20	7,966449E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968645E+18
105	3,690373E+20	9,865845E+20	1,347713E+21	1,347672E+21	9,865149E+20	3,689785E+20	7,962307E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,961607E+18
106	3,689913E+20	9,865300E+20	1,347699E+21	1,347739E+21	9,866014E+20	3,690493E+20	7,967114E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965079E+18
107	3,689792E+20	9,865865E+20	1,347772E+21	1,347766E+21	9,865707E+20	3,689699E+20	7,964918E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,966232E+18
108	3,690388E+20	9,865841E+20	1,347713E+21	1,347687E+21	9,865466E+20	3,690066E+20	7,961962E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,962500E+18
109	3,689658E+20	9,865032E+20	1,347687E+21	1,347725E+21	9,865811E+20	3,690254E+20	7,968312E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967577E+18
110	3,689992E+20	9,865543E+20	1,347692E+21	1,347671E+21	9,864970E+20	3,689422E+20	7,962538E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965399E+18
111	3,690134E+20	9,865016E+20	1,347590E+21	1,347591E+21	9,864932E+20	3,690062E+20	7,965345E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963433E+18
112	3,689234E+20	9,864485E+20	1,347606E+21	1,347608E+21	9,864753E+20	3,689678E+20	7,968700E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967729E+18
113	3,689760E+20	9,864561E+20	1,347553E+21	1,347512E+21	9,863785E+20	3,689164E+20	7,963148E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964657E+18
114	3,689394E+20	9,863515E+20	1,347438E+21	1,347479E+21	9,864165E+20	3,689845E+20	7,969190E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965317E+18
115	3,688942E+20	9,863579E+20	1,347469E+21	1,347473E+21	9,863668E+20	3,689039E+20	7,966503E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,969796E+18
116	3,689685E+20	9,863743E+20	1,347411E+21	1,347370E+21	9,863011E+20	3,689091E+20	7,964229E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964908E+18
117	3,689018E+20	9,862942E+20	1,347382E+21	1,347420E+21	9,863653E+20	3,689564E+20	7,969385E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967052E+18
118	3,689091E+20	9,863614E+20	1,347448E+21	1,347430E+21	9,863197E+20	3,688787E+20	7,964983E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968499E+18
119	3,689578E+20	9,863516E+20	1,347401E+21	1,347400E+21	9,863487E+20	3,689477E+20	7,966143E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,962834E+18
120	3,688851E+20	9,863272E+20	1,347460E+21	1,347496E+21	9,864081E+20	3,689556E+20	7,968826E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,969188E+18
121	3,689566E+20	9,864150E+20	1,347502E+21	1,347483E+21	9,863625E+20	3,689030E+20	7,964132E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965606E+18
122	3,689717E+20	9,864027E+20	1,347477E+21	1,347508E+21	9,864474E+20	3,689940E+20	7,966171E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963972E+18
123	3,689221E+20	9,864469E+20	1,347594E+21	1,347592E+21	9,864619E+20	3,689527E+20	7,967450E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,969321E+18
124	3,690069E+20	9,865087E+20	1,347612E+21	1,347565E+21	9,864224E+20	3,689417E+20	7,962689E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,962481E+18
125	3,689598E+20	9,864409E+20	1,347579E+21	1,347627E+21	9,865167E+20	3,690145E+20	7,967526E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965733E+18
126	3,689423E+20	9,864841E+20	1,347635E+21	1,347638E+21	9,864827E+20	3,689391E+20	7,965679E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967488E+18
127	3,690096E+20	9,864842E+20	1,347572E+21	1,347557E+21	9,864542E+20	3,689746E+20	7,962950E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963043E+18
128	3,689323E+20	9,864146E+20	1,347555E+21	1,347586E+21	9,864813E+20	3,689951E+20	7,969622E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967720E+18
129	3,689562E+20	9,864513E+20	1,347555E+21	1,347526E+21	9,863839E+20	3,689055E+20	7,963894E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965710E+18
130	3,689699E+20	9,863936E+20	1,347449E+21	1,347452E+21	9,863898E+20	3,689683E+20	7,966349E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963938E+18
131	3,688776E+20	9,863319E+20	1,347454E+21	1,347466E+21	9,863745E+20	3,689316E+20	7,969589E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,969170E+18
132	3,689419E+20	9,863523E+20	1,347406E+21	1,347366E+21	9,862674E+20	3,688717E+20	7,963325E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,966509E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
133	3,689135E+20	9,862569E+20	1,347294E+21	1,347335E+21	9,863119E+20	3,689422E+20	7,969176E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,966308E+18
134	3,688626E+20	9,862644E+20	1,347334E+21	1,347335E+21	9,862687E+20	3,688701E+20	7,967127E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970897E+18
135	3,689378E+20	9,862847E+20	1,347292E+21	1,347255E+21	9,862123E+20	3,688784E+20	7,965365E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964893E+18
136	3,688644E+20	9,862074E+20	1,347268E+21	1,347307E+21	9,862816E+20	3,689298E+20	7,970591E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967193E+18
137	3,688671E+20	9,862581E+20	1,347319E+21	1,347310E+21	9,862327E+20	3,688497E+20	7,966218E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,969233E+18
138	3,689278E+20	9,862614E+20	1,347273E+21	1,347276E+21	9,862657E+20	3,689179E+20	7,966664E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963744E+18
139	3,688589E+20	9,862469E+20	1,347340E+21	1,347371E+21	9,863216E+20	3,689272E+20	7,969586E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970409E+18
140	3,689364E+20	9,863525E+20	1,347402E+21	1,347369E+21	9,862702E+20	3,688672E+20	7,964438E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,966354E+18
141	3,689474E+20	9,863371E+20	1,347382E+21	1,347405E+21	9,863631E+20	3,689602E+20	7,966491E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964080E+18
142	3,688840E+20	9,863579E+20	1,347487E+21	1,347493E+21	9,863885E+20	3,689261E+20	7,968374E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,969899E+18
143	3,689707E+20	9,864106E+20	1,347495E+21	1,347468E+21	9,863525E+20	3,689149E+20	7,963502E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963019E+18
144	3,689258E+20	9,863482E+20	1,347449E+21	1,347502E+21	9,864336E+20	3,689882E+20	7,968529E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,966398E+18
145	3,689063E+20	9,863808E+20	1,347490E+21	1,347496E+21	9,863832E+20	3,689066E+20	7,966628E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968281E+18
146	3,689789E+20	9,863932E+20	1,347433E+21	1,347410E+21	9,863517E+20	3,689389E+20	7,963748E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,963677E+18
147	3,688949E+20	9,863189E+20	1,347421E+21	1,347442E+21	9,863720E+20	3,689582E+20	7,970756E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968582E+18
148	3,689201E+20	9,863554E+20	1,347424E+21	1,347390E+21	9,862715E+20	3,688600E+20	7,964337E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967075E+18
149	3,689356E+20	9,862907E+20	1,347307E+21	1,347314E+21	9,862864E+20	3,689244E+20	7,966639E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965177E+18
150	3,688424E+20	9,862230E+20	1,347305E+21	1,347323E+21	9,862748E+20	3,688948E+20	7,970035E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970820E+18
151	3,689128E+20	9,862526E+20	1,347267E+21	1,347233E+21	9,861709E+20	3,688367E+20	7,964210E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967243E+18
152	3,688800E+20	9,861699E+20	1,347167E+21	1,347198E+21	9,862148E+20	3,689123E+20	7,970380E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,966250E+18
153	3,688175E+20	9,861583E+20	1,347201E+21	1,347201E+21	9,861680E+20	3,688387E+20	7,968618E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970942E+18
154	3,688941E+20	9,861793E+20	1,347157E+21	1,347127E+21	9,861239E+20	3,688474E+20	7,966500E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965134E+18
155	3,688234E+20	9,861032E+20	1,347134E+21	1,347178E+21	9,861926E+20	3,688997E+20	7,971469E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968479E+18
156	3,688413E+20	9,861728E+20	1,347194E+21	1,347181E+21	9,861362E+20	3,688124E+20	7,966514E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970666E+18
157	3,689087E+20	9,861901E+20	1,347161E+21	1,347159E+21	9,861783E+20	3,688816E+20	7,966587E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964568E+18
158	3,688351E+20	9,861777E+20	1,347239E+21	1,347263E+21	9,862416E+20	3,688982E+20	7,970057E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971223E+18
159	3,689087E+20	9,862779E+20	1,347311E+21	1,347280E+21	9,861989E+20	3,688409E+20	7,965425E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,966255E+18
160	3,689118E+20	9,862572E+20	1,347283E+21	1,347310E+21	9,862941E+20	3,689365E+20	7,967495E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964264E+18
161	3,688428E+20	9,862507E+20	1,347356E+21	1,347375E+21	9,863086E+20	3,688996E+20	7,969527E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970597E+18
162	3,689381E+20	9,863120E+20	1,347353E+21	1,347330E+21	9,862657E+20	3,688847E+20	7,964096E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964075E+18
163	3,688966E+20	9,862575E+20	1,347313E+21	1,347356E+21	9,863308E+20	3,689541E+20	7,969354E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967704E+18
164	3,688816E+20	9,863008E+20	1,347365E+21	1,347353E+21	9,862693E+20	3,688636E+20	7,966953E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,969274E+18
165	3,689484E+20	9,863083E+20	1,347313E+21	1,347280E+21	9,862453E+20	3,688948E+20	7,964134E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964284E+18
166	3,688548E+20	9,862161E+20	1,347292E+21	1,347316E+21	9,862771E+20	3,689204E+20	7,971366E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,969574E+18
167	3,688821E+20	9,862468E+20	1,347290E+21	1,347269E+21	9,861843E+20	3,688263E+20	7,965177E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967994E+18
168	3,688995E+20	9,861902E+20	1,347169E+21	1,347178E+21	9,861928E+20	3,688930E+20	7,967716E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965840E+18



1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
169	3,688027E+20	9,861096E+20	1,347153E+21	1,347176E+21	9,861730E+20	3,688626E+20	7,971227E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971369E+18
170	3,688752E+20	9,861523E+20	1,347122E+21	1,347083E+21	9,860708E+20	3,688048E+20	7,965437E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967628E+18
171	3,688375E+20	9,860669E+20	1,347031E+21	1,347054E+21	9,861090E+20	3,688789E+20	7,971736E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,966876E+18
172	3,687806E+20	9,860567E+20	1,347067E+21	1,347067E+21	9,860634E+20	3,687978E+20	7,969196E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972088E+18
173	3,688626E+20	9,860827E+20	1,347023E+21	1,346996E+21	9,860275E+20	3,688068E+20	7,966720E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,966316E+18
174	3,687967E+20	9,860130E+20	1,347006E+21	1,347051E+21	9,861022E+20	3,688649E+20	7,971560E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970040E+18
175	3,688213E+20	9,860986E+20	1,347090E+21	1,347075E+21	9,860563E+20	3,687827E+20	7,967164E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971235E+18
176	3,688839E+20	9,861273E+20	1,347072E+21	1,347056E+21	9,861008E+20	3,688557E+20	7,967369E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964455E+18
177	3,687970E+20	9,860893E+20	1,347135E+21	1,347161E+21	9,861652E+20	3,688739E+20	7,971261E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971137E+18
178	3,688697E+20	9,861852E+20	1,347194E+21	1,347173E+21	9,861307E+20	3,688166E+20	7,966345E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,966499E+18
179	3,688734E+20	9,861589E+20	1,347157E+21	1,347186E+21	9,862121E+20	3,689095E+20	7,968278E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965612E+18
180	3,688188E+20	9,861610E+20	1,347224E+21	1,347242E+21	9,862114E+20	3,688623E+20	7,969718E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971958E+18
181	3,689165E+20	9,862327E+20	1,347229E+21	1,347197E+21	9,861668E+20	3,688449E+20	7,964106E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965184E+18
182	3,688713E+20	9,861781E+20	1,347197E+21	1,347226E+21	9,862314E+20	3,689170E+20	7,969760E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968661E+18
183	3,688505E+20	9,862152E+20	1,347259E+21	1,347241E+21	9,861772E+20	3,688300E+20	7,967917E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,969551E+18
184	3,689092E+20	9,862146E+20	1,347196E+21	1,347163E+21	9,861572E+20	3,688624E+20	7,965263E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,964660E+18
185	3,688092E+20	9,860958E+20	1,347141E+21	1,347178E+21	9,861833E+20	3,688890E+20	7,972596E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970238E+18
186	3,688434E+20	9,861343E+20	1,347130E+21	1,347116E+21	9,860883E+20	3,687948E+20	7,966259E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968929E+18
187	3,688607E+20	9,860832E+20	1,347019E+21	1,347020E+21	9,860827E+20	3,688586E+20	7,969053E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,966931E+18
188	3,687703E+20	9,860083E+20	1,347008E+21	1,347020E+21	9,860540E+20	3,688201E+20	7,971922E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972074E+18
189	3,688359E+20	9,860489E+20	1,346985E+21	1,346942E+21	9,859608E+20	3,687614E+20	7,966002E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968391E+18
190	3,687981E+20	9,859594E+20	1,346893E+21	1,346920E+21	9,860085E+20	3,688382E+20	7,971918E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968097E+18
191	3,687489E+20	9,859572E+20	1,346938E+21	1,346943E+21	9,859729E+20	3,687635E+20	7,969657E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,973133E+18
192	3,688362E+20	9,860016E+20	1,346907E+21	1,346877E+21	9,859423E+20	3,687755E+20	7,967245E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,966882E+18
193	3,687678E+20	9,859275E+20	1,346887E+21	1,346933E+21	9,860184E+20	3,688374E+20	7,972363E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970380E+18
194	3,687924E+20	9,860240E+20	1,346980E+21	1,346961E+21	9,859819E+20	3,687603E+20	7,968350E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971180E+18
195	3,688463E+20	9,860441E+20	1,346972E+21	1,346952E+21	9,860212E+20	3,688308E+20	7,968511E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965054E+18
196	3,687663E+20	9,859981E+20	1,347018E+21	1,347050E+21	9,860812E+20	3,688410E+20	7,971723E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972029E+18
197	3,688397E+20	9,860943E+20	1,347070E+21	1,347054E+21	9,860451E+20	3,687816E+20	7,966403E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967790E+18
198	3,688500E+20	9,860742E+20	1,347033E+21	1,347058E+21	9,861193E+20	3,688742E+20	7,968237E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967157E+18
199	3,687990E+20	9,860872E+20	1,347116E+21	1,347124E+21	9,861218E+20	3,688312E+20	7,970423E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972404E+18
200	3,688885E+20	9,861618E+20	1,347129E+21	1,347084E+21	9,860776E+20	3,688143E+20	7,965093E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965075E+18
201	3,688286E+20	9,860766E+20	1,347076E+21	1,347110E+21	9,861426E+20	3,688867E+20	7,971093E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968631E+18
202	3,688069E+20	9,861082E+20	1,347121E+21	1,347114E+21	9,860955E+20	3,688026E+20	7,969143E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,969973E+18
203	3,688647E+20	9,861007E+20	1,347051E+21	1,347021E+21	9,860593E+20	3,688308E+20	7,966459E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,966129E+18
204	3,687789E+20	9,859875E+20	1,346985E+21	1,347024E+21	9,860725E+20	3,688479E+20	7,973011E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971419E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
205	3,688121E+20	9,860359E+20	1,346983E+21	1,346961E+21	9,859749E+20	3,687516E+20	7,966578E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970241E+18
206	3,688273E+20	9,859835E+20	1,346880E+21	1,346869E+21	9,859675E+20	3,688167E+20	7,969578E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967953E+18
207	3,687354E+20	9,859079E+20	1,346880E+21	1,346891E+21	9,859510E+20	3,687818E+20	7,972647E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972618E+18
208	3,687974E+20	9,859486E+20	1,346855E+21	1,346814E+21	9,858653E+20	3,687253E+20	7,966878E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968976E+18
209	3,687588E+20	9,858477E+20	1,346747E+21	1,346783E+21	9,859134E+20	3,688049E+20	7,972687E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968847E+18
210	3,687195E+20	9,858673E+20	1,346801E+21	1,346806E+21	9,858853E+20	3,687363E+20	7,970676E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,973776E+18
211	3,688039E+20	9,859195E+20	1,346793E+21	1,346752E+21	9,858511E+20	3,687477E+20	7,968485E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967566E+18
212	3,687407E+20	9,858484E+20	1,346778E+21	1,346817E+21	9,859264E+20	3,688041E+20	7,972943E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970635E+18
213	3,687567E+20	9,859388E+20	1,346873E+21	1,346857E+21	9,859000E+20	3,687277E+20	7,968898E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971753E+18
214	3,688110E+20	9,859502E+20	1,346856E+21	1,346844E+21	9,859420E+20	3,687991E+20	7,968554E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,966249E+18
215	3,687403E+20	9,859105E+20	1,346903E+21	1,346942E+21	9,860026E+20	3,688123E+20	7,972134E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972921E+18
216	3,688153E+20	9,860175E+20	1,346959E+21	1,346941E+21	9,859635E+20	3,687526E+20	7,966894E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968272E+18
217	3,688213E+20	9,859907E+20	1,346913E+21	1,346936E+21	9,860314E+20	3,688453E+20	7,969082E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967517E+18
218	3,687688E+20	9,860095E+20	1,346999E+21	1,347001E+21	9,860374E+20	3,688068E+20	7,971852E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972271E+18
219	3,688467E+20	9,860691E+20	1,347016E+21	1,346969E+21	9,859877E+20	3,687849E+20	7,966480E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,965931E+18
220	3,687943E+20	9,859727E+20	1,346937E+21	1,346979E+21	9,860438E+20	3,688478E+20	7,971691E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,969608E+18
221	3,687715E+20	9,860018E+20	1,346972E+21	1,346971E+21	9,859928E+20	3,687627E+20	7,969369E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971603E+18
222	3,688351E+20	9,859992E+20	1,346905E+21	1,346871E+21	9,859477E+20	3,687881E+20	7,966525E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967940E+18
223	3,687530E+20	9,858958E+20	1,346851E+21	1,346880E+21	9,859630E+20	3,688094E+20	7,973640E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972018E+18
224	3,687754E+20	9,859426E+20	1,346857E+21	1,346826E+21	9,858696E+20	3,687147E+20	7,967511E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970362E+18
225	3,687796E+20	9,858672E+20	1,346735E+21	1,346734E+21	9,858654E+20	3,687809E+20	7,970835E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968034E+18
226	3,686916E+20	9,857961E+20	1,346727E+21	1,346750E+21	9,858592E+20	3,687526E+20	7,973893E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972999E+18
227	3,687543E+20	9,858399E+20	1,346712E+21	1,346676E+21	9,857676E+20	3,686940E+20	7,968178E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970277E+18
228	3,687324E+20	9,857532E+20	1,346607E+21	1,346644E+21	9,858109E+20	3,687660E+20	7,973021E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,969783E+18
229	3,686923E+20	9,857875E+20	1,346681E+21	1,346679E+21	9,857891E+20	3,687014E+20	7,971094E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974884E+18
230	3,687748E+20	9,858393E+20	1,346686E+21	1,346639E+21	9,857595E+20	3,687133E+20	7,968890E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968449E+18
231	3,687113E+20	9,857674E+20	1,346678E+21	1,346719E+21	9,858479E+20	3,687741E+20	7,973511E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971069E+18
232	3,687228E+20	9,858516E+20	1,346762E+21	1,346756E+21	9,858272E+20	3,686997E+20	7,969530E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972183E+18
233	3,687766E+20	9,858515E+20	1,346724E+21	1,346726E+21	9,858614E+20	3,687715E+20	7,969163E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967002E+18
234	3,687164E+20	9,858324E+20	1,346775E+21	1,346815E+21	9,859221E+20	3,687892E+20	7,973255E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,973357E+18
235	3,687848E+20	9,859416E+20	1,346850E+21	1,346821E+21	9,858737E+20	3,687268E+20	7,968241E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968960E+18
236	3,687940E+20	9,859111E+20	1,346801E+21	1,346818E+21	9,859350E+20	3,688089E+20	7,969702E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967914E+18
237	3,687329E+20	9,859218E+20	1,346884E+21	1,346886E+21	9,859448E+20	3,687700E+20	7,972310E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,973202E+18
238	3,688106E+20	9,859684E+20	1,346885E+21	1,346845E+21	9,858939E+20	3,687463E+20	7,966505E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967541E+18
239	3,687658E+20	9,858777E+20	1,346806E+21	1,346851E+21	9,859493E+20	3,688120E+20	7,972096E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970681E+18
240	3,687416E+20	9,859100E+20	1,346840E+21	1,346837E+21	9,858956E+20	3,687277E+20	7,969938E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972170E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
241	3,687967E+20	9,858953E+20	1,346760E+21	1,346728E+21	9,858443E+20	3,687547E+20	7,967750E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968322E+18
242	3,687144E+20	9,857967E+20	1,346707E+21	1,346735E+21	9,858627E+20	3,687804E+20	7,975384E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971834E+18
243	3,687245E+20	9,858279E+20	1,346716E+21	1,346689E+21	9,857661E+20	3,686818E+20	7,969184E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971285E+18
244	3,687399E+20	9,857499E+20	1,346576E+21	1,346583E+21	9,857549E+20	3,687376E+20	7,971480E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,969020E+18
245	3,686567E+20	9,856914E+20	1,346575E+21	1,346598E+21	9,857479E+20	3,687106E+20	7,974081E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974685E+18
246	3,687266E+20	9,857471E+20	1,346576E+21	1,346535E+21	9,856610E+20	3,686528E+20	7,968427E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971853E+18
247	3,687085E+20	9,856771E+20	1,346497E+21	1,346523E+21	9,857153E+20	3,687309E+20	7,973546E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970300E+18
248	3,686595E+20	9,857071E+20	1,346580E+21	1,346574E+21	9,857055E+20	3,686712E+20	7,971954E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974921E+18
249	3,687318E+20	9,857373E+20	1,346564E+21	1,346534E+21	9,856833E+20	3,686859E+20	7,969835E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968672E+18
250	3,686763E+20	9,856731E+20	1,346543E+21	1,346601E+21	9,857770E+20	3,687528E+20	7,974590E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971413E+18
251	3,686865E+20	9,857582E+20	1,346638E+21	1,346638E+21	9,857470E+20	3,686751E+20	7,970646E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,973342E+18
252	3,687553E+20	9,857717E+20	1,346599E+21	1,346598E+21	9,857676E+20	3,687357E+20	7,969426E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,967809E+18
253	3,686931E+20	9,857645E+20	1,346666E+21	1,346692E+21	9,858266E+20	3,687554E+20	7,973718E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974341E+18
254	3,687573E+20	9,858675E+20	1,346750E+21	1,346713E+21	9,857827E+20	3,686913E+20	7,968615E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,969983E+18
255	3,687656E+20	9,858331E+20	1,346701E+21	1,346716E+21	9,858512E+20	3,687746E+20	7,970210E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968666E+18
256	3,686996E+20	9,858309E+20	1,346766E+21	1,346775E+21	9,858640E+20	3,687383E+20	7,972853E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,973759E+18
257	3,687730E+20	9,858630E+20	1,346743E+21	1,346715E+21	9,858042E+20	3,687147E+20	7,967252E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968453E+18
258	3,687348E+20	9,857850E+20	1,346659E+21	1,346707E+21	9,858564E+20	3,687851E+20	7,973631E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970835E+18
259	3,686985E+20	9,858084E+20	1,346705E+21	1,346699E+21	9,857938E+20	3,686981E+20	7,971651E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972751E+18
260	3,687557E+20	9,857854E+20	1,346612E+21	1,346582E+21	9,857312E+20	3,687129E+20	7,968834E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968772E+18
261	3,686701E+20	9,856847E+20	1,346558E+21	1,346587E+21	9,857500E+20	3,687377E+20	7,975949E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,973026E+18
262	3,686852E+20	9,857133E+20	1,346562E+21	1,346540E+21	9,856554E+20	3,686378E+20	7,969340E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,973210E+18
263	3,687123E+20	9,856549E+20	1,346439E+21	1,346441E+21	9,856485E+20	3,686950E+20	7,971675E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970357E+18
264	3,686308E+20	9,856071E+20	1,346450E+21	1,346467E+21	9,856504E+20	3,686731E+20	7,974378E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975400E+18
265	3,686924E+20	9,856550E+20	1,346449E+21	1,346410E+21	9,855704E+20	3,686223E+20	7,969540E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972223E+18
266	3,686743E+20	9,855916E+20	1,346376E+21	1,346407E+21	9,856360E+20	3,687073E+20	7,975082E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970083E+18
267	3,686141E+20	9,856051E+20	1,346460E+21	1,346464E+21	9,856269E+20	3,686472E+20	7,973544E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975635E+18
268	3,686963E+20	9,856326E+20	1,346424E+21	1,346405E+21	9,855943E+20	3,686518E+20	7,970362E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,969516E+18
269	3,686492E+20	9,855885E+20	1,346414E+21	1,346465E+21	9,856793E+20	3,687172E+20	7,974621E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972999E+18
270	3,686655E+20	9,856824E+20	1,346522E+21	1,346511E+21	9,856514E+20	3,686391E+20	7,970847E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974645E+18
271	3,687359E+20	9,857118E+20	1,346510E+21	1,346491E+21	9,856796E+20	3,687017E+20	7,969826E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968300E+18
272	3,686644E+20	9,856950E+20	1,346579E+21	1,346599E+21	9,857483E+20	3,687244E+20	7,974423E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974271E+18
273	3,687159E+20	9,857703E+20	1,346634E+21	1,346612E+21	9,857115E+20	3,686648E+20	7,969578E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970253E+18
274	3,687297E+20	9,857380E+20	1,346569E+21	1,346599E+21	9,857791E+20	3,687521E+20	7,971527E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968980E+18
275	3,686594E+20	9,857268E+20	1,346632E+21	1,346650E+21	9,857786E+20	3,687123E+20	7,974183E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974719E+18
276	3,687407E+20	9,857623E+20	1,346595E+21	1,346567E+21	9,857007E+20	3,686768E+20	7,967894E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,969396E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
277	3,687017E+20	9,856933E+20	1,346521E+21	1,346552E+21	9,857413E+20	3,687455E+20	7,974345E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971956E+18
278	3,686619E+20	9,857042E+20	1,346567E+21	1,346556E+21	9,856811E+20	3,686546E+20	7,972112E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974099E+18
279	3,687204E+20	9,856840E+20	1,346477E+21	1,346444E+21	9,856231E+20	3,686677E+20	7,969318E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970028E+18
280	3,686359E+20	9,855803E+20	1,346415E+21	1,346446E+21	9,856454E+20	3,686949E+20	7,976158E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,973983E+18
281	3,686496E+20	9,856059E+20	1,346411E+21	1,346394E+21	9,855534E+20	3,686014E+20	7,970048E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974342E+18
282	3,686833E+20	9,855667E+20	1,346301E+21	1,346300E+21	9,855540E+20	3,686664E+20	7,973211E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970437E+18
283	3,685894E+20	9,855121E+20	1,346331E+21	1,346345E+21	9,855599E+20	3,686472E+20	7,976075E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975750E+18
284	3,686511E+20	9,855514E+20	1,346316E+21	1,346283E+21	9,854768E+20	3,685876E+20	7,970678E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972445E+18
285	3,686323E+20	9,854888E+20	1,346243E+21	1,346275E+21	9,855420E+20	3,686733E+20	7,975535E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971114E+18
286	3,685797E+20	9,855005E+20	1,346324E+21	1,346335E+21	9,855357E+20	3,686114E+20	7,973675E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977159E+18
287	3,686737E+20	9,855535E+20	1,346308E+21	1,346282E+21	9,855030E+20	3,686151E+20	7,970428E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970617E+18
288	3,686302E+20	9,855223E+20	1,346313E+21	1,346352E+21	9,855936E+20	3,686842E+20	7,974779E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,973498E+18
289	3,686376E+20	9,856091E+20	1,346421E+21	1,346405E+21	9,855734E+20	3,686143E+20	7,971945E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974812E+18
290	3,687059E+20	9,856386E+20	1,346412E+21	1,346395E+21	9,856114E+20	3,686803E+20	7,971331E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,968082E+18
291	3,686229E+20	9,856008E+20	1,346471E+21	1,346503E+21	9,856804E+20	3,687021E+20	7,975827E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974914E+18
292	3,686805E+20	9,856664E+20	1,346494E+21	1,346485E+21	9,856263E+20	3,686316E+20	7,970114E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971206E+18
293	3,686999E+20	9,856467E+20	1,346433E+21	1,346454E+21	9,856764E+20	3,687154E+20	7,971776E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970597E+18
294	3,686329E+20	9,856331E+20	1,346497E+21	1,346506E+21	9,856725E+20	3,686731E+20	7,974522E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975995E+18
295	3,687118E+20	9,856789E+20	1,346476E+21	1,346432E+21	9,855934E+20	3,686357E+20	7,968401E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970354E+18
296	3,686672E+20	9,855997E+20	1,346399E+21	1,346423E+21	9,856377E+20	3,687036E+20	7,974868E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972342E+18
297	3,686187E+20	9,855894E+20	1,346419E+21	1,346417E+21	9,855846E+20	3,686196E+20	7,972915E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974883E+18
298	3,686836E+20	9,855775E+20	1,346328E+21	1,346303E+21	9,855294E+20	3,686361E+20	7,970690E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970524E+18
299	3,685961E+20	9,854743E+20	1,346274E+21	1,346309E+21	9,855481E+20	3,686631E+20	7,977413E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974744E+18
300	3,686137E+20	9,855018E+20	1,346262E+21	1,346244E+21	9,854491E+20	3,685653E+20	7,971128E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974979E+18
301	3,686456E+20	9,854733E+20	1,346173E+21	1,346156E+21	9,854450E+20	3,686303E+20	7,974161E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971303E+18
302	3,685506E+20	9,854048E+20	1,346199E+21	1,346215E+21	9,854598E+20	3,686096E+20	7,976717E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,976739E+18
303	3,686144E+20	9,854518E+20	1,346187E+21	1,346156E+21	9,853836E+20	3,685497E+20	7,971103E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,973609E+18
304	3,686027E+20	9,853948E+20	1,346113E+21	1,346144E+21	9,854483E+20	3,686355E+20	7,975482E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971985E+18
305	3,685516E+20	9,854092E+20	1,346191E+21	1,346205E+21	9,854473E+20	3,685815E+20	7,974285E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977966E+18
306	3,686507E+20	9,854822E+20	1,346198E+21	1,346168E+21	9,854240E+20	3,685911E+20	7,971797E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970495E+18
307	3,685964E+20	9,854461E+20	1,346221E+21	1,346257E+21	9,855182E+20	3,686610E+20	7,976142E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,973755E+18
308	3,686020E+20	9,855192E+20	1,346309E+21	1,346299E+21	9,854957E+20	3,685855E+20	7,972960E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975055E+18
309	3,686701E+20	9,855496E+20	1,346297E+21	1,346277E+21	9,855269E+20	3,686490E+20	7,971560E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,969416E+18
310	3,685940E+20	9,855037E+20	1,346342E+21	1,346379E+21	9,855928E+20	3,686671E+20	7,975838E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,976363E+18
311	3,686574E+20	9,855864E+20	1,346374E+21	1,346357E+21	9,855327E+20	3,685935E+20	7,970048E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972562E+18
312	3,686773E+20	9,855694E+20	1,346318E+21	1,346324E+21	9,855781E+20	3,686779E+20	7,972009E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971251E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
313	3,686003E+20	9,855415E+20	1,346372E+21	1,346377E+21	9,855777E+20	3,686425E+20	7,975614E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,976301E+18
314	3,686747E+20	9,855819E+20	1,346349E+21	1,346309E+21	9,855037E+20	3,686072E+20	7,970179E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970361E+18
315	3,686208E+20	9,854865E+20	1,346262E+21	1,346296E+21	9,855459E+20	3,686723E+20	7,976277E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,973003E+18
316	3,685785E+20	9,854722E+20	1,346257E+21	1,346261E+21	9,854774E+20	3,685814E+20	7,973713E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975852E+18
317	3,686483E+20	9,854764E+20	1,346179E+21	1,346140E+21	9,854112E+20	3,685953E+20	7,971368E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971918E+18
318	3,685630E+20	9,853723E+20	1,346133E+21	1,346161E+21	9,854378E+20	3,686228E+20	7,977969E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975671E+18
319	3,685782E+20	9,854096E+20	1,346137E+21	1,346109E+21	9,853442E+20	3,685256E+20	7,971888E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975872E+18
320	3,686065E+20	9,853707E+20	1,346046E+21	1,346031E+21	9,853478E+20	3,685916E+20	7,974685E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971743E+18
321	3,685098E+20	9,852900E+20	1,346052E+21	1,346083E+21	9,853715E+20	3,685787E+20	7,977359E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977539E+18
322	3,685813E+20	9,853515E+20	1,346048E+21	1,346028E+21	9,852986E+20	3,685222E+20	7,972274E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974099E+18
323	3,685713E+20	9,853062E+20	1,345992E+21	1,346025E+21	9,853627E+20	3,686069E+20	7,976252E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972713E+18
324	3,685253E+20	9,853287E+20	1,346068E+21	1,346076E+21	9,853561E+20	3,685517E+20	7,975200E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978443E+18
325	3,686221E+20	9,854126E+20	1,346100E+21	1,346053E+21	9,853321E+20	3,685602E+20	7,972524E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971286E+18
326	3,685664E+20	9,853613E+20	1,346117E+21	1,346156E+21	9,854374E+20	3,686281E+20	7,976528E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974712E+18
327	3,685733E+20	9,854376E+20	1,346199E+21	1,346192E+21	9,854170E+20	3,685525E+20	7,973168E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,976247E+18
328	3,686453E+20	9,854678E+20	1,346183E+21	1,346161E+21	9,854402E+20	3,686136E+20	7,971326E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970477E+18
329	3,685693E+20	9,854170E+20	1,346213E+21	1,346251E+21	9,855060E+20	3,686391E+20	7,976509E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,976908E+18
330	3,686283E+20	9,855052E+20	1,346259E+21	1,346240E+21	9,854486E+20	3,685695E+20	7,971638E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972383E+18
331	3,686364E+20	9,854774E+20	1,346206E+21	1,346212E+21	9,854889E+20	3,686499E+20	7,973606E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971309E+18
332	3,685555E+20	9,854291E+20	1,346226E+21	1,346240E+21	9,854802E+20	3,686099E+20	7,976951E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,976477E+18
333	3,686307E+20	9,854717E+20	1,346203E+21	1,346161E+21	9,853970E+20	3,685693E+20	7,970869E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971749E+18
334	3,685852E+20	9,853726E+20	1,346108E+21	1,346146E+21	9,854358E+20	3,686292E+20	7,976539E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974395E+18
335	3,685492E+20	9,853785E+20	1,346115E+21	1,346111E+21	9,853666E+20	3,685387E+20	7,973897E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977347E+18
336	3,686189E+20	9,853866E+20	1,346050E+21	1,345999E+21	9,853009E+20	3,685533E+20	7,971797E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972776E+18
337	3,685269E+20	9,852695E+20	1,345996E+21	1,346025E+21	9,853381E+20	3,685893E+20	7,978930E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,976089E+18
338	3,685368E+20	9,853016E+20	1,346002E+21	1,345987E+21	9,852562E+20	3,684967E+20	7,973507E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,976220E+18
339	3,685621E+20	9,852564E+20	1,345905E+21	1,345904E+21	9,852577E+20	3,685603E+20	7,975754E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972507E+18
340	3,684752E+20	9,851807E+20	1,345892E+21	1,345931E+21	9,852687E+20	3,685443E+20	7,978029E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978438E+18
341	3,685527E+20	9,852676E+20	1,345918E+21	1,345882E+21	9,851915E+20	3,684866E+20	7,972888E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975289E+18
342	3,685460E+20	9,852277E+20	1,345880E+21	1,345903E+21	9,852665E+20	3,685707E+20	7,976599E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,973505E+18
343	3,684991E+20	9,852621E+20	1,345974E+21	1,345970E+21	9,852696E+20	3,685184E+20	7,975774E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979223E+18
344	3,685919E+20	9,853337E+20	1,346003E+21	1,345959E+21	9,852554E+20	3,685275E+20	7,972723E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971787E+18
345	3,685347E+20	9,852707E+20	1,346000E+21	1,346053E+21	9,853676E+20	3,686032E+20	7,976986E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975310E+18
346	3,685439E+20	9,853511E+20	1,346083E+21	1,346088E+21	9,853463E+20	3,685310E+20	7,974410E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,976379E+18
347	3,686120E+20	9,853821E+20	1,346069E+21	1,346052E+21	9,853621E+20	3,685893E+20	7,972303E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,970909E+18
348	3,685376E+20	9,853284E+20	1,346082E+21	1,346118E+21	9,854121E+20	3,686114E+20	7,977823E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977058E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
349	3,685909E+20	9,854168E+20	1,346138E+21	1,346107E+21	9,853458E+20	3,685368E+20	7,972716E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,973215E+18
350	3,685987E+20	9,853721E+20	1,346072E+21	1,346084E+21	9,853899E+20	3,686099E+20	7,974161E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972469E+18
351	3,685228E+20	9,853321E+20	1,346085E+21	1,346099E+21	9,853751E+20	3,685677E+20	7,977142E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978019E+18
352	3,686019E+20	9,853755E+20	1,346063E+21	1,346017E+21	9,852866E+20	3,685240E+20	7,970773E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,973183E+18
353	3,685566E+20	9,852764E+20	1,345965E+21	1,346000E+21	9,853307E+20	3,685920E+20	7,977149E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975168E+18
354	3,685148E+20	9,852835E+20	1,345987E+21	1,345982E+21	9,852698E+20	3,685094E+20	7,975523E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977524E+18
355	3,685730E+20	9,852803E+20	1,345922E+21	1,345878E+21	9,852071E+20	3,685222E+20	7,973345E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,973097E+18
356	3,684808E+20	9,851484E+20	1,345834E+21	1,345878E+21	9,852381E+20	3,685562E+20	7,980112E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,976477E+18
357	3,684931E+20	9,851881E+20	1,345849E+21	1,345834E+21	9,851485E+20	3,684604E+20	7,974244E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977595E+18
358	3,685287E+20	9,851488E+20	1,345755E+21	1,345758E+21	9,851505E+20	3,685184E+20	7,975971E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,973712E+18
359	3,684515E+20	9,851026E+20	1,345764E+21	1,345791E+21	9,851637E+20	3,685050E+20	7,978228E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979683E+18
360	3,685286E+20	9,851977E+20	1,345815E+21	1,345765E+21	9,850958E+20	3,684500E+20	7,973342E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975902E+18
361	3,685172E+20	9,851502E+20	1,345777E+21	1,345801E+21	9,851870E+20	3,685429E+20	7,977418E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,973764E+18
362	3,684645E+20	9,851759E+20	1,345872E+21	1,345884E+21	9,852062E+20	3,684986E+20	7,977345E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979355E+18
363	3,685539E+20	9,852407E+20	1,345891E+21	1,345863E+21	9,851879E+20	3,685037E+20	7,973595E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972315E+18
364	3,685031E+20	9,851754E+20	1,345858E+21	1,345920E+21	9,852814E+20	3,685763E+20	7,977813E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975791E+18
365	3,685126E+20	9,852686E+20	1,345960E+21	1,345955E+21	9,852513E+20	3,685009E+20	7,975203E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977178E+18
366	3,685806E+20	9,852954E+20	1,345950E+21	1,345930E+21	9,852654E+20	3,685533E+20	7,972910E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,971707E+18
367	3,685073E+20	9,852481E+20	1,345965E+21	1,345994E+21	9,853132E+20	3,685739E+20	7,978449E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978030E+18
368	3,685577E+20	9,853250E+20	1,346016E+21	1,345985E+21	9,852501E+20	3,684969E+20	7,972828E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974363E+18
369	3,685672E+20	9,852729E+20	1,345933E+21	1,345952E+21	9,852958E+20	3,685731E+20	7,974419E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,973607E+18
370	3,684928E+20	9,852369E+20	1,345953E+21	1,345974E+21	9,852837E+20	3,685363E+20	7,978126E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978618E+18
371	3,685666E+20	9,852815E+20	1,345933E+21	1,345891E+21	9,851931E+20	3,684916E+20	7,971784E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,973849E+18
372	3,685184E+20	9,851747E+20	1,345818E+21	1,345851E+21	9,852255E+20	3,685606E+20	7,978721E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975263E+18
373	3,684692E+20	9,851765E+20	1,345849E+21	1,345839E+21	9,851622E+20	3,684756E+20	7,976935E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978313E+18
374	3,685268E+20	9,851576E+20	1,345768E+21	1,345738E+21	9,851034E+20	3,684825E+20	7,974283E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974279E+18
375	3,684463E+20	9,850431E+20	1,345676E+21	1,345720E+21	9,851257E+20	3,685136E+20	7,980365E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978029E+18
376	3,684645E+20	9,850919E+20	1,345704E+21	1,345683E+21	9,850358E+20	3,684164E+20	7,974323E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978914E+18
377	3,685028E+20	9,850643E+20	1,345626E+21	1,345623E+21	9,850504E+20	3,684816E+20	7,976439E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974287E+18
378	3,684216E+20	9,850249E+20	1,345664E+21	1,345687E+21	9,850790E+20	3,684787E+20	7,979735E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979656E+18
379	3,684883E+20	9,851094E+20	1,345714E+21	1,345675E+21	9,850254E+20	3,684256E+20	7,974771E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975864E+18
380	3,684765E+20	9,850501E+20	1,345648E+21	1,345687E+21	9,851121E+20	3,685183E+20	7,978437E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974033E+18
381	3,684277E+20	9,850813E+20	1,345747E+21	1,345760E+21	9,851229E+20	3,684718E+20	7,978086E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,980378E+18
382	3,685233E+20	9,851472E+20	1,345762E+21	1,345742E+21	9,851025E+20	3,684699E+20	7,973745E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,973490E+18
383	3,684835E+20	9,851074E+20	1,345739E+21	1,345788E+21	9,851858E+20	3,685407E+20	7,977956E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977041E+18
384	3,684891E+20	9,851974E+20	1,345855E+21	1,345837E+21	9,851560E+20	3,684640E+20	7,975483E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978008E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
385	3,685520E+20	9,852141E+20	1,345840E+21	1,345820E+21	9,851790E+20	3,685191E+20	7,973453E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972438E+18
386	3,684746E+20	9,851572E+20	1,345853E+21	1,345890E+21	9,852333E+20	3,685455E+20	7,979688E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978556E+18
387	3,685215E+20	9,852282E+20	1,345889E+21	1,345868E+21	9,851667E+20	3,684666E+20	7,973606E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975158E+18
388	3,685336E+20	9,851736E+20	1,345783E+21	1,345803E+21	9,851944E+20	3,685403E+20	7,975503E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974143E+18
389	3,684565E+20	9,851434E+20	1,345818E+21	1,345825E+21	9,851776E+20	3,685034E+20	7,979312E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979220E+18
390	3,685241E+20	9,851745E+20	1,345796E+21	1,345755E+21	9,850891E+20	3,684536E+20	7,972928E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974700E+18
391	3,684782E+20	9,850702E+20	1,345671E+21	1,345704E+21	9,851165E+20	3,685203E+20	7,979653E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,976230E+18
392	3,684276E+20	9,850604E+20	1,345698E+21	1,345694E+21	9,850547E+20	3,684324E+20	7,977232E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979597E+18
393	3,684906E+20	9,850441E+20	1,345610E+21	1,345585E+21	9,849961E+20	3,684414E+20	7,974696E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975421E+18
394	3,684149E+20	9,849434E+20	1,345538E+21	1,345583E+21	9,850247E+20	3,684788E+20	7,981262E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978662E+18
395	3,684315E+20	9,850042E+20	1,345581E+21	1,345557E+21	9,849429E+20	3,683846E+20	7,975340E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979402E+18
396	3,684676E+20	9,849741E+20	1,345498E+21	1,345489E+21	9,849543E+20	3,684519E+20	7,977823E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974336E+18
397	3,683827E+20	9,849343E+20	1,345550E+21	1,345570E+21	9,849929E+20	3,684503E+20	7,980875E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,980343E+18
398	3,684493E+20	9,850059E+20	1,345587E+21	1,345565E+21	9,849476E+20	3,683935E+20	7,975470E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,976964E+18
399	3,684503E+20	9,849651E+20	1,345518E+21	1,345555E+21	9,850212E+20	3,684828E+20	7,978387E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975513E+18
400	3,684058E+20	9,850018E+20	1,345628E+21	1,345634E+21	9,850294E+20	3,684345E+20	7,977981E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,981500E+18
401	3,685005E+20	9,850742E+20	1,345652E+21	1,345623E+21	9,850149E+20	3,684371E+20	7,973988E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974111E+18
402	3,684566E+20	9,850357E+20	1,345648E+21	1,345690E+21	9,851060E+20	3,685147E+20	7,979182E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977221E+18
403	3,684534E+20	9,851124E+20	1,345754E+21	1,345743E+21	9,850850E+20	3,684388E+20	7,976630E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978152E+18
404	3,685135E+20	9,851147E+20	1,345708E+21	1,345695E+21	9,850962E+20	3,684916E+20	7,974578E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,972848E+18
405	3,684384E+20	9,850610E+20	1,345723E+21	1,345757E+21	9,851416E+20	3,685146E+20	7,980565E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979350E+18
406	3,684860E+20	9,851262E+20	1,345751E+21	1,345736E+21	9,850733E+20	3,684309E+20	7,974233E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,976286E+18
407	3,685054E+20	9,850894E+20	1,345649E+21	1,345654E+21	9,850861E+20	3,685014E+20	7,976188E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975315E+18
408	3,684231E+20	9,850477E+20	1,345689E+21	1,345687E+21	9,850690E+20	3,684630E+20	7,979959E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,980058E+18
409	3,684840E+20	9,850658E+20	1,345655E+21	1,345620E+21	9,849893E+20	3,684148E+20	7,973676E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975819E+18
410	3,684392E+20	9,849577E+20	1,345529E+21	1,345568E+21	9,850169E+20	3,684846E+20	7,980777E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977080E+18
411	3,683898E+20	9,849472E+20	1,345544E+21	1,345547E+21	9,849534E+20	3,683957E+20	7,977870E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,980478E+18
412	3,684547E+20	9,849380E+20	1,345451E+21	1,345422E+21	9,848836E+20	3,684036E+20	7,975757E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975945E+18
413	3,683802E+20	9,848529E+20	1,345408E+21	1,345436E+21	9,849162E+20	3,684434E+20	7,982274E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979134E+18
414	3,683916E+20	9,849056E+20	1,345458E+21	1,345435E+21	9,848500E+20	3,683511E+20	7,976537E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,980149E+18
415	3,684335E+20	9,848850E+20	1,345376E+21	1,345364E+21	9,848621E+20	3,684162E+20	7,978425E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975366E+18
416	3,683503E+20	9,848387E+20	1,345427E+21	1,345451E+21	9,849056E+20	3,684142E+20	7,980875E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,981552E+18
417	3,684211E+20	9,849146E+20	1,345460E+21	1,345445E+21	9,848654E+20	3,683600E+20	7,975482E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978010E+18
418	3,684261E+20	9,848867E+20	1,345411E+21	1,345445E+21	9,849403E+20	3,684548E+20	7,978936E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,976084E+18
419	3,683795E+20	9,849270E+20	1,345526E+21	1,345529E+21	9,849537E+20	3,684097E+20	7,978915E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,981522E+18
420	3,684662E+20	9,849914E+20	1,345541E+21	1,345507E+21	9,849304E+20	3,684126E+20	7,975466E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974023E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
421	3,684201E+20	9,849494E+20	1,345540E+21	1,345579E+21	9,850247E+20	3,684878E+20	7,980398E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977759E+18
422	3,684156E+20	9,850103E+20	1,345626E+21	1,345627E+21	9,850054E+20	3,684089E+20	7,977514E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979298E+18
423	3,684879E+20	9,850275E+20	1,345572E+21	1,345553E+21	9,849961E+20	3,684531E+20	7,974766E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,974406E+18
424	3,684140E+20	9,849755E+20	1,345595E+21	1,345621E+21	9,850378E+20	3,684729E+20	7,980566E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,980444E+18
425	3,684565E+20	9,850384E+20	1,345626E+21	1,345603E+21	9,849738E+20	3,683928E+20	7,974676E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977134E+18
426	3,684683E+20	9,849926E+20	1,345533E+21	1,345533E+21	9,849898E+20	3,684685E+20	7,977549E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975804E+18
427	3,683810E+20	9,849355E+20	1,345552E+21	1,345561E+21	9,849792E+20	3,684302E+20	7,980930E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,980419E+18
428	3,684379E+20	9,849424E+20	1,345489E+21	1,345461E+21	9,848837E+20	3,683804E+20	7,974882E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,976600E+18
429	3,684004E+20	9,848461E+20	1,345372E+21	1,345407E+21	9,849053E+20	3,684461E+20	7,981553E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977913E+18
430	3,683533E+20	9,848395E+20	1,345391E+21	1,345396E+21	9,848459E+20	3,683571E+20	7,978588E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,981626E+18
431	3,684260E+20	9,848522E+20	1,345316E+21	1,345270E+21	9,847687E+20	3,683620E+20	7,976506E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,976969E+18
432	3,683481E+20	9,847639E+20	1,345292E+21	1,345311E+21	9,848127E+20	3,684024E+20	7,982669E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979950E+18
433	3,683555E+20	9,848079E+20	1,345335E+21	1,345319E+21	9,847654E+20	3,683170E+20	7,977158E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,981217E+18
434	3,683994E+20	9,847880E+20	1,345259E+21	1,345253E+21	9,847819E+20	3,683874E+20	7,979183E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,976264E+18
435	3,683219E+20	9,847459E+20	1,345301E+21	1,345333E+21	9,848264E+20	3,683861E+20	7,981319E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,981989E+18
436	3,683890E+20	9,848255E+20	1,345330E+21	1,345312E+21	9,847759E+20	3,683333E+20	7,976574E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978132E+18
437	3,683948E+20	9,848095E+20	1,345304E+21	1,345325E+21	9,848517E+20	3,684277E+20	7,979983E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,976216E+18
438	3,683426E+20	9,848369E+20	1,345415E+21	1,345423E+21	9,848752E+20	3,683836E+20	7,980236E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,982030E+18
439	3,684357E+20	9,849075E+20	1,345425E+21	1,345389E+21	9,848435E+20	3,683793E+20	7,976040E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975139E+18
440	3,683930E+20	9,848617E+20	1,345422E+21	1,345461E+21	9,849342E+20	3,684498E+20	7,980286E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979097E+18
441	3,683905E+20	9,849239E+20	1,345501E+21	1,345504E+21	9,849186E+20	3,683737E+20	7,977484E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,980527E+18
442	3,684634E+20	9,849495E+20	1,345466E+21	1,345436E+21	9,849061E+20	3,684202E+20	7,975255E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975346E+18
443	3,683859E+20	9,848909E+20	1,345479E+21	1,345500E+21	9,849494E+20	3,684428E+20	7,981424E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,980404E+18
444	3,684131E+20	9,849347E+20	1,345492E+21	1,345469E+21	9,848774E+20	3,683633E+20	7,976206E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977388E+18
445	3,684240E+20	9,848813E+20	1,345392E+21	1,345395E+21	9,848910E+20	3,684357E+20	7,978973E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,976409E+18
446	3,683370E+20	9,848109E+20	1,345388E+21	1,345411E+21	9,848778E+20	3,683955E+20	7,981955E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,981601E+18
447	3,684060E+20	9,848373E+20	1,345327E+21	1,345289E+21	9,847605E+20	3,683356E+20	7,975399E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978119E+18
448	3,683715E+20	9,847509E+20	1,345230E+21	1,345251E+21	9,847826E+20	3,683974E+20	7,981601E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978933E+18
449	3,683209E+20	9,847472E+20	1,345262E+21	1,345257E+21	9,847392E+20	3,683172E+20	7,979121E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,982524E+18
450	3,683879E+20	9,847572E+20	1,345206E+21	1,345157E+21	9,846752E+20	3,683282E+20	7,977737E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977557E+18
451	3,683095E+20	9,846601E+20	1,345165E+21	1,345199E+21	9,847339E+20	3,683727E+20	7,983399E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,980101E+18
452	3,683120E+20	9,846963E+20	1,345189E+21	1,345185E+21	9,846785E+20	3,682907E+20	7,978389E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,981782E+18
453	3,683641E+20	9,846893E+20	1,345124E+21	1,345122E+21	9,846924E+20	3,683585E+20	7,979993E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,976788E+18
454	3,682903E+20	9,846526E+20	1,345167E+21	1,345206E+21	9,847399E+20	3,683583E+20	7,982195E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,982798E+18
455	3,683637E+20	9,847500E+20	1,345212E+21	1,345179E+21	9,846765E+20	3,682997E+20	7,977336E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978986E+18
456	3,683684E+20	9,847341E+20	1,345203E+21	1,345217E+21	9,847587E+20	3,683893E+20	7,980075E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977239E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
457	3,683155E+20	9,847554E+20	1,345305E+21	1,345318E+21	9,847953E+20	3,683510E+20	7,980574E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983228E+18
458	3,684091E+20	9,848258E+20	1,345320E+21	1,345285E+21	9,847635E+20	3,683486E+20	7,976452E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,976305E+18
459	3,683709E+20	9,847832E+20	1,345308E+21	1,345349E+21	9,848536E+20	3,684188E+20	7,980484E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979423E+18
460	3,683578E+20	9,848383E+20	1,345377E+21	1,345374E+21	9,848277E+20	3,683471E+20	7,978683E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,980564E+18
461	3,684258E+20	9,848618E+20	1,345350E+21	1,345315E+21	9,848152E+20	3,683925E+20	7,976623E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,975464E+18
462	3,683419E+20	9,847820E+20	1,345343E+21	1,345377E+21	9,848620E+20	3,684152E+20	7,983016E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,980847E+18
463	3,683722E+20	9,848232E+20	1,345340E+21	1,345321E+21	9,847717E+20	3,683258E+20	7,977053E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978655E+18
464	3,683881E+20	9,847705E+20	1,345241E+21	1,345245E+21	9,847752E+20	3,683888E+20	7,979022E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977843E+18
465	3,683062E+20	9,847072E+20	1,345234E+21	1,345257E+21	9,847648E+20	3,683518E+20	7,982006E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,982929E+18
466	3,683752E+20	9,847463E+20	1,345199E+21	1,345150E+21	9,846511E+20	3,682959E+20	7,976143E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979191E+18
467	3,683404E+20	9,846614E+20	1,345106E+21	1,345121E+21	9,846829E+20	3,683612E+20	7,982388E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978912E+18
468	3,682760E+20	9,846410E+20	1,345128E+21	1,345126E+21	9,846438E+20	3,682883E+20	7,980738E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,982943E+18
469	3,683442E+20	9,846468E+20	1,345067E+21	1,345031E+21	9,845877E+20	3,682989E+20	7,979155E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978227E+18
470	3,682698E+20	9,845443E+20	1,345010E+21	1,345063E+21	9,846462E+20	3,683438E+20	7,984316E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,981190E+18
471	3,682830E+20	9,846012E+20	1,345042E+21	1,345033E+21	9,845710E+20	3,682528E+20	7,978867E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983076E+18
472	3,683389E+20	9,846082E+20	1,345003E+21	1,344987E+21	9,845834E+20	3,683159E+20	7,979935E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977661E+18
473	3,682636E+20	9,845756E+20	1,345056E+21	1,345087E+21	9,846468E+20	3,683243E+20	7,982631E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983606E+18
474	3,683328E+20	9,846742E+20	1,345121E+21	1,345084E+21	9,845965E+20	3,682696E+20	7,978194E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979750E+18
475	3,683409E+20	9,846536E+20	1,345098E+21	1,345120E+21	9,846879E+20	3,683603E+20	7,980353E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977510E+18
476	3,682815E+20	9,846660E+20	1,345183E+21	1,345203E+21	9,847181E+20	3,683275E+20	7,981601E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983685E+18
477	3,683789E+20	9,847429E+20	1,345204E+21	1,345174E+21	9,846850E+20	3,683224E+20	7,977316E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,976650E+18
478	3,683382E+20	9,846955E+20	1,345185E+21	1,345231E+21	9,847727E+20	3,683945E+20	7,981727E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979792E+18
479	3,683240E+20	9,847513E+20	1,345254E+21	1,345241E+21	9,847270E+20	3,683145E+20	7,979817E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,981158E+18
480	3,683879E+20	9,847641E+20	1,345225E+21	1,345191E+21	9,847119E+20	3,683514E+20	7,977085E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,976643E+18
481	3,683065E+20	9,846750E+20	1,345195E+21	1,345239E+21	9,847632E+20	3,683770E+20	7,983501E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,982279E+18
482	3,683389E+20	9,847199E+20	1,345199E+21	1,345178E+21	9,846652E+20	3,682860E+20	7,977484E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,980324E+18
483	3,683619E+20	9,846761E+20	1,345097E+21	1,345098E+21	9,846661E+20	3,683455E+20	7,979200E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978325E+18
484	3,682685E+20	9,846094E+20	1,345092E+21	1,345105E+21	9,846531E+20	3,683165E+20	7,983186E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983221E+18
485	3,683333E+20	9,846460E+20	1,345068E+21	1,345019E+21	9,845515E+20	3,682629E+20	7,977757E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979450E+18
486	3,682934E+20	9,845473E+20	1,344964E+21	1,344994E+21	9,845933E+20	3,683319E+20	7,983948E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979527E+18
487	3,682347E+20	9,845272E+20	1,344973E+21	1,344977E+21	9,845398E+20	3,682531E+20	7,981705E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,984265E+18
488	3,683091E+20	9,845398E+20	1,344921E+21	1,344889E+21	9,844804E+20	3,682559E+20	7,979203E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979692E+18
489	3,682438E+20	9,844514E+20	1,344866E+21	1,344920E+21	9,845443E+20	3,683045E+20	7,984244E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,982428E+18
490	3,682555E+20	9,845218E+20	1,344929E+21	1,344907E+21	9,844735E+20	3,682180E+20	7,979485E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983996E+18
491	3,683128E+20	9,845346E+20	1,344901E+21	1,344879E+21	9,844969E+20	3,682822E+20	7,980380E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977469E+18
492	3,682261E+20	9,844900E+20	1,344948E+21	1,344980E+21	9,845667E+20	3,683002E+20	7,984061E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983872E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
493	3,682971E+20	9,845850E+20	1,345007E+21	1,344985E+21	9,845288E+20	3,682476E+20	7,979571E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,980144E+18
494	3,683084E+20	9,845633E+20	1,344973E+21	1,345008E+21	9,846159E+20	3,683373E+20	7,981321E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978369E+18
495	3,682558E+20	9,845853E+20	1,345058E+21	1,345071E+21	9,846239E+20	3,682958E+20	7,982299E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,984526E+18
496	3,683505E+20	9,846650E+20	1,345094E+21	1,345055E+21	9,845873E+20	3,682834E+20	7,977388E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977544E+18
497	3,683074E+20	9,846107E+20	1,345066E+21	1,345111E+21	9,846809E+20	3,683597E+20	7,982292E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,980640E+18
498	3,682867E+20	9,846565E+20	1,345139E+21	1,345128E+21	9,846381E+20	3,682805E+20	7,980575E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,982263E+18
499	3,683551E+20	9,846647E+20	1,345090E+21	1,345064E+21	9,846203E+20	3,683139E+20	7,977349E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977315E+18
500	3,682693E+20	9,845698E+20	1,345046E+21	1,345090E+21	9,846597E+20	3,683435E+20	7,984473E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983056E+18
501	3,683055E+20	9,846223E+20	1,345054E+21	1,345036E+21	9,845656E+20	3,682520E+20	7,978519E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,981007E+18
502	3,683256E+20	9,845784E+20	1,344955E+21	1,344955E+21	9,845654E+20	3,683131E+20	7,980603E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978916E+18
503	3,682309E+20	9,845108E+20	1,344954E+21	1,344958E+21	9,845397E+20	3,682781E+20	7,984353E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,984001E+18
504	3,682917E+20	9,845386E+20	1,344932E+21	1,344888E+21	9,844434E+20	3,682191E+20	7,978398E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,980786E+18
505	3,682554E+20	9,844339E+20	1,344808E+21	1,344849E+21	9,844929E+20	3,682935E+20	7,984452E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,980940E+18
506	3,682005E+20	9,844234E+20	1,344833E+21	1,344835E+21	9,844355E+20	3,682146E+20	7,982146E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985800E+18
507	3,682821E+20	9,844493E+20	1,344784E+21	1,344748E+21	9,843776E+20	3,682159E+20	7,979445E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979865E+18
508	3,682077E+20	9,843621E+20	1,344738E+21	1,344782E+21	9,844448E+20	3,682746E+20	7,985398E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,982525E+18
509	3,682176E+20	9,844322E+20	1,344814E+21	1,344797E+21	9,843928E+20	3,681925E+20	7,981178E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983942E+18
510	3,682717E+20	9,844381E+20	1,344782E+21	1,344775E+21	9,844256E+20	3,682587E+20	7,981764E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977927E+18
511	3,681925E+20	9,843973E+20	1,344823E+21	1,344857E+21	9,844797E+20	3,682699E+20	7,984837E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,984967E+18
512	3,682691E+20	9,844990E+20	1,344889E+21	1,344870E+21	9,844395E+20	3,682104E+20	7,979503E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,981431E+18
513	3,682866E+20	9,844868E+20	1,344853E+21	1,344886E+21	9,845301E+20	3,683030E+20	7,981224E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979585E+18
514	3,682312E+20	9,845143E+20	1,344959E+21	1,344957E+21	9,845360E+20	3,682635E+20	7,982794E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985462E+18
515	3,683229E+20	9,845883E+20	1,344990E+21	1,344948E+21	9,845027E+20	3,682487E+20	7,977687E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,977737E+18
516	3,682689E+20	9,845153E+20	1,344941E+21	1,344990E+21	9,845946E+20	3,683314E+20	7,983532E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,981310E+18
517	3,682502E+20	9,845513E+20	1,344998E+21	1,345003E+21	9,845562E+20	3,682527E+20	7,981806E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983008E+18
518	3,683202E+20	9,845622E+20	1,344943E+21	1,344923E+21	9,845256E+20	3,682819E+20	7,978430E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978366E+18
519	3,682390E+20	9,844762E+20	1,344901E+21	1,344930E+21	9,845406E+20	3,683028E+20	7,985348E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983776E+18
520	3,682696E+20	9,845291E+20	1,344925E+21	1,344895E+21	9,844506E+20	3,682085E+20	7,979043E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,981945E+18
521	3,682870E+20	9,844779E+20	1,344821E+21	1,344818E+21	9,844608E+20	3,682730E+20	7,981475E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979849E+18
522	3,681888E+20	9,844017E+20	1,344820E+21	1,344827E+21	9,844409E+20	3,682406E+20	7,985154E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985222E+18
523	3,682540E+20	9,844279E+20	1,344785E+21	1,344750E+21	9,843473E+20	3,681798E+20	7,978755E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,981528E+18
524	3,682157E+20	9,843230E+20	1,344655E+21	1,344697E+21	9,843898E+20	3,682601E+20	7,985403E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,981592E+18
525	3,681654E+20	9,843199E+20	1,344687E+21	1,344696E+21	9,843424E+20	3,681845E+20	7,983383E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,986091E+18
526	3,682438E+20	9,843543E+20	1,344653E+21	1,344615E+21	9,842848E+20	3,681875E+20	7,980941E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,980172E+18
527	3,681721E+20	9,842707E+20	1,344615E+21	1,344649E+21	9,843413E+20	3,682396E+20	7,986442E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983195E+18
528	3,681827E+20	9,843398E+20	1,344697E+21	1,344684E+21	9,843026E+20	3,681561E+20	7,981669E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985287E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
529	3,682447E+20	9,843489E+20	1,344657E+21	1,344654E+21	9,843420E+20	3,682242E+20	7,981817E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979517E+18
530	3,681714E+20	9,843222E+20	1,344715E+21	1,344740E+21	9,843929E+20	3,682353E+20	7,984823E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,986453E+18
531	3,682504E+20	9,844314E+20	1,344786E+21	1,344758E+21	9,843564E+20	3,681749E+20	7,979420E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,981548E+18
532	3,682546E+20	9,844108E+20	1,344751E+21	1,344772E+21	9,844464E+20	3,682770E+20	7,982192E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979751E+18
533	3,681952E+20	9,844237E+20	1,344848E+21	1,344858E+21	9,844663E+20	3,682414E+20	7,984405E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985318E+18
534	3,682803E+20	9,844866E+20	1,344863E+21	1,344834E+21	9,844297E+20	3,682261E+20	7,979122E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,978355E+18
535	3,682338E+20	9,844135E+20	1,344801E+21	1,344847E+21	9,844939E+20	3,682973E+20	7,984418E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,982357E+18
536	3,682196E+20	9,844556E+20	1,344862E+21	1,344862E+21	9,844487E+20	3,682116E+20	7,981986E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,984297E+18
537	3,682918E+20	9,844705E+20	1,344805E+21	1,344776E+21	9,844188E+20	3,682407E+20	7,978827E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979510E+18
538	3,682071E+20	9,843903E+20	1,344784E+21	1,344795E+21	9,844329E+20	3,682621E+20	7,985949E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,984641E+18
539	3,682335E+20	9,844329E+20	1,344801E+21	1,344769E+21	9,843516E+20	3,681679E+20	7,979650E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,982293E+18
540	3,682402E+20	9,843623E+20	1,344677E+21	1,344680E+21	9,843649E+20	3,682412E+20	7,982916E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,980687E+18
541	3,681482E+20	9,842790E+20	1,344659E+21	1,344687E+21	9,843514E+20	3,682111E+20	7,986502E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985911E+18
542	3,682135E+20	9,843134E+20	1,344624E+21	1,344596E+21	9,842468E+20	3,681477E+20	7,979989E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,982540E+18
543	3,681815E+20	9,842209E+20	1,344503E+21	1,344531E+21	9,842677E+20	3,682187E+20	7,986204E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,982247E+18
544	3,681300E+20	9,842240E+20	1,344556E+21	1,344555E+21	9,842288E+20	3,681425E+20	7,983854E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987019E+18
545	3,682085E+20	9,842584E+20	1,344526E+21	1,344487E+21	9,841875E+20	3,681488E+20	7,981551E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,981199E+18
546	3,681407E+20	9,841830E+20	1,344502E+21	1,344534E+21	9,842521E+20	3,682030E+20	7,986619E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,984626E+18
547	3,681583E+20	9,842571E+20	1,344583E+21	1,344571E+21	9,842224E+20	3,681217E+20	7,981703E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985978E+18
548	3,682168E+20	9,842679E+20	1,344543E+21	1,344538E+21	9,842621E+20	3,681971E+20	7,982328E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,980214E+18
549	3,681465E+20	9,842429E+20	1,344603E+21	1,344637E+21	9,843247E+20	3,682140E+20	7,985955E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,986336E+18
550	3,682150E+20	9,843513E+20	1,344682E+21	1,344654E+21	9,842845E+20	3,681544E+20	7,980852E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,981563E+18
551	3,682180E+20	9,843216E+20	1,344638E+21	1,344652E+21	9,843536E+20	3,682472E+20	7,983389E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,980175E+18
552	3,681584E+20	9,843240E+20	1,344723E+21	1,344739E+21	9,843779E+20	3,682091E+20	7,985116E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,986395E+18
553	3,682494E+20	9,843880E+20	1,344724E+21	1,344698E+21	9,843356E+20	3,681902E+20	7,979475E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979930E+18
554	3,682103E+20	9,843302E+20	1,344675E+21	1,344706E+21	9,843868E+20	3,682551E+20	7,984483E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983771E+18
555	3,681956E+20	9,843758E+20	1,344741E+21	1,344729E+21	9,843465E+20	3,681706E+20	7,982101E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,984562E+18
556	3,682534E+20	9,843786E+20	1,344685E+21	1,344646E+21	9,843191E+20	3,682070E+20	7,980011E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,979948E+18
557	3,681650E+20	9,842800E+20	1,344650E+21	1,344678E+21	9,843502E+20	3,682339E+20	7,987553E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,984606E+18
558	3,681841E+20	9,843129E+20	1,344652E+21	1,344635E+21	9,842654E+20	3,681406E+20	7,981128E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983240E+18
559	3,681981E+20	9,842408E+20	1,344513E+21	1,344516E+21	9,842497E+20	3,682028E+20	7,983937E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,981845E+18
560	3,681140E+20	9,841671E+20	1,344499E+21	1,344526E+21	9,842350E+20	3,681685E+20	7,986711E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987231E+18
561	3,681815E+20	9,842124E+20	1,344473E+21	1,344435E+21	9,841317E+20	3,681054E+20	7,980483E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983843E+18
562	3,681519E+20	9,841359E+20	1,344382E+21	1,344390E+21	9,841527E+20	3,681743E+20	7,986481E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983245E+18
563	3,680995E+20	9,841370E+20	1,344441E+21	1,344435E+21	9,841325E+20	3,681026E+20	7,984217E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987505E+18
564	3,681708E+20	9,841615E+20	1,344404E+21	1,344370E+21	9,841038E+20	3,681195E+20	7,982586E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,982065E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
565	3,681112E+20	9,840883E+20	1,344377E+21	1,344425E+21	9,841810E+20	3,681791E+20	7,987643E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985026E+18
566	3,681266E+20	9,841723E+20	1,344462E+21	1,344454E+21	9,841474E+20	3,681005E+20	7,983000E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,986316E+18
567	3,681846E+20	9,841852E+20	1,344429E+21	1,344412E+21	9,841679E+20	3,681679E+20	7,983276E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,980384E+18
568	3,681129E+20	9,841575E+20	1,344493E+21	1,344524E+21	9,842356E+20	3,681834E+20	7,986714E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,986694E+18
569	3,681765E+20	9,842540E+20	1,344560E+21	1,344539E+21	9,842010E+20	3,681235E+20	7,981625E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,982436E+18
570	3,681864E+20	9,842325E+20	1,344520E+21	1,344533E+21	9,842625E+20	3,682103E+20	7,983447E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,981681E+18
571	3,681351E+20	9,842390E+20	1,344598E+21	1,344614E+21	9,842853E+20	3,681716E+20	7,985097E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987153E+18
572	3,682210E+20	9,843026E+20	1,344600E+21	1,344568E+21	9,842422E+20	3,681574E+20	7,980026E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,980880E+18
573	3,681839E+20	9,842449E+20	1,344554E+21	1,344589E+21	9,843021E+20	3,682262E+20	7,985612E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983799E+18
574	3,681565E+20	9,842847E+20	1,344622E+21	1,344608E+21	9,842589E+20	3,681442E+20	7,983579E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,984843E+18
575	3,682096E+20	9,842701E+20	1,344550E+21	1,344511E+21	9,842143E+20	3,681711E+20	7,981293E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,980811E+18
576	3,681245E+20	9,841620E+20	1,344496E+21	1,344534E+21	9,842471E+20	3,681965E+20	7,988211E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985870E+18
577	3,681463E+20	9,841948E+20	1,344486E+21	1,344474E+21	9,841544E+20	3,681002E+20	7,981642E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985064E+18
578	3,681695E+20	9,841440E+20	1,344366E+21	1,344353E+21	9,841244E+20	3,681550E+20	7,984103E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983229E+18
579	3,680863E+20	9,840772E+20	1,344362E+21	1,344376E+21	9,841187E+20	3,681241E+20	7,986913E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987501E+18
580	3,681409E+20	9,841152E+20	1,344345E+21	1,344301E+21	9,840281E+20	3,680702E+20	7,981739E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,984344E+18
581	3,681131E+20	9,840311E+20	1,344253E+21	1,344279E+21	9,840724E+20	3,681458E+20	7,987855E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983214E+18
582	3,680571E+20	9,840350E+20	1,344312E+21	1,344319E+21	9,840564E+20	3,680802E+20	7,985631E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,988209E+18
583	3,681345E+20	9,840610E+20	1,344271E+21	1,344239E+21	9,840081E+20	3,680881E+20	7,983595E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,982772E+18
584	3,680817E+20	9,839982E+20	1,344249E+21	1,344299E+21	9,840905E+20	3,681476E+20	7,987995E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985697E+18
585	3,680950E+20	9,840876E+20	1,344341E+21	1,344329E+21	9,840586E+20	3,680699E+20	7,983690E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987125E+18
586	3,681557E+20	9,841106E+20	1,344326E+21	1,344297E+21	9,840717E+20	3,681310E+20	7,983487E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,981294E+18
587	3,680857E+20	9,840758E+20	1,344382E+21	1,344417E+21	9,841523E+20	3,681492E+20	7,986984E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987268E+18
588	3,681435E+20	9,841622E+20	1,344437E+21	1,344425E+21	9,841210E+20	3,680953E+20	7,982332E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983671E+18
589	3,681632E+20	9,841449E+20	1,344395E+21	1,344421E+21	9,841842E+20	3,681818E+20	7,984142E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,982350E+18
590	3,681076E+20	9,841617E+20	1,344481E+21	1,344491E+21	9,841992E+20	3,681452E+20	7,986162E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987557E+18
591	3,681874E+20	9,842178E+20	1,344481E+21	1,344437E+21	9,841381E+20	3,681230E+20	7,981051E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,981234E+18
592	3,681463E+20	9,841511E+20	1,344432E+21	1,344465E+21	9,842049E+20	3,681919E+20	7,986531E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,984198E+18
593	3,681122E+20	9,841734E+20	1,344480E+21	1,344476E+21	9,841649E+20	3,681106E+20	7,984566E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,986006E+18
594	3,681722E+20	9,841638E+20	1,344405E+21	1,344368E+21	9,841059E+20	3,681290E+20	7,981616E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,982550E+18
595	3,680956E+20	9,840583E+20	1,344341E+21	1,344383E+21	9,841372E+20	3,681536E+20	7,988335E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,986721E+18
596	3,681105E+20	9,840896E+20	1,344335E+21	1,344321E+21	9,840447E+20	3,680626E+20	7,982405E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,986142E+18
597	3,681364E+20	9,840440E+20	1,344227E+21	1,344218E+21	9,840226E+20	3,681200E+20	7,985386E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983159E+18
598	3,680437E+20	9,839795E+20	1,344233E+21	1,344244E+21	9,840192E+20	3,680944E+20	7,988522E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987588E+18
599	3,680934E+20	9,840029E+20	1,344205E+21	1,344166E+21	9,839255E+20	3,680359E+20	7,983310E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985008E+18
600	3,680744E+20	9,839229E+20	1,344108E+21	1,344144E+21	9,839779E+20	3,681114E+20	7,988497E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,984322E+18



1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
601	3,680235E+20	9,839316E+20	1,344164E+21	1,344176E+21	9,839595E+20	3,680468E+20	7,986270E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,989818E+18
602	3,681101E+20	9,839814E+20	1,344148E+21	1,344106E+21	9,839040E+20	3,680469E+20	7,983572E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983997E+18
603	3,680590E+20	9,839248E+20	1,344137E+21	1,344179E+21	9,839961E+20	3,681101E+20	7,987995E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985923E+18
604	3,680586E+20	9,840011E+20	1,344233E+21	1,344222E+21	9,839765E+20	3,680410E+20	7,984580E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987654E+18
605	3,681223E+20	9,840184E+20	1,344213E+21	1,344203E+21	9,840034E+20	3,681057E+20	7,984423E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,981513E+18
606	3,680524E+20	9,839897E+20	1,344265E+21	1,344306E+21	9,840790E+20	3,681276E+20	7,988105E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987946E+18
607	3,681127E+20	9,840738E+20	1,344312E+21	1,344299E+21	9,840295E+20	3,680656E+20	7,983216E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,984472E+18
608	3,681385E+20	9,840669E+20	1,344275E+21	1,344296E+21	9,840935E+20	3,681492E+20	7,984559E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983058E+18
609	3,680762E+20	9,840793E+20	1,344363E+21	1,344366E+21	9,841058E+20	3,681137E+20	7,987083E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,988301E+18
610	3,681545E+20	9,841360E+20	1,344372E+21	1,344319E+21	9,840363E+20	3,680825E+20	7,981477E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,982321E+18
611	3,681125E+20	9,840545E+20	1,344302E+21	1,344343E+21	9,841113E+20	3,681539E+20	7,987064E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,984866E+18
612	3,680714E+20	9,840611E+20	1,344332E+21	1,344338E+21	9,840705E+20	3,680779E+20	7,985432E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987398E+18
613	3,681399E+20	9,840545E+20	1,344252E+21	1,344227E+21	9,840079E+20	3,680950E+20	7,982715E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983250E+18
614	3,680604E+20	9,839617E+20	1,344196E+21	1,344232E+21	9,840312E+20	3,681215E+20	7,989640E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,986988E+18
615	3,680673E+20	9,839835E+20	1,344190E+21	1,344167E+21	9,839254E+20	3,680241E+20	7,983834E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,986497E+18
616	3,680924E+20	9,839348E+20	1,344084E+21	1,344075E+21	9,839145E+20	3,680807E+20	7,986421E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983568E+18
617	3,679976E+20	9,838635E+20	1,344085E+21	1,344104E+21	9,839190E+20	3,680580E+20	7,989390E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,988961E+18
618	3,680593E+20	9,839024E+20	1,344065E+21	1,344026E+21	9,838184E+20	3,679928E+20	7,983543E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,986766E+18
619	3,680500E+20	9,838334E+20	1,343973E+21	1,344009E+21	9,838793E+20	3,680711E+20	7,988352E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985239E+18
620	3,679943E+20	9,838450E+20	1,344039E+21	1,344048E+21	9,838691E+20	3,680155E+20	7,986851E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990831E+18
621	3,680819E+20	9,838982E+20	1,344037E+21	1,344000E+21	9,838239E+20	3,680190E+20	7,984582E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983927E+18
622	3,680239E+20	9,838447E+20	1,344032E+21	1,344074E+21	9,839190E+20	3,680865E+20	7,989222E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,986000E+18
623	3,680177E+20	9,839017E+20	1,344109E+21	1,344108E+21	9,838933E+20	3,680137E+20	7,985901E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,988247E+18
624	3,680909E+20	9,839269E+20	1,344086E+21	1,344081E+21	9,839207E+20	3,680760E+20	7,984966E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,982463E+18
625	3,680249E+20	9,839054E+20	1,344139E+21	1,344177E+21	9,839878E+20	3,680969E+20	7,988832E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,989241E+18
626	3,680910E+20	9,840064E+20	1,344204E+21	1,344175E+21	9,839296E+20	3,680268E+20	7,983434E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985469E+18
627	3,681137E+20	9,839962E+20	1,344171E+21	1,344182E+21	9,840011E+20	3,681117E+20	7,984860E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983349E+18
628	3,680373E+20	9,839852E+20	1,344247E+21	1,344257E+21	9,840230E+20	3,680837E+20	7,988071E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,988946E+18
629	3,681153E+20	9,840290E+20	1,344243E+21	1,344212E+21	9,839599E+20	3,680532E+20	7,982493E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,982963E+18
630	3,680742E+20	9,839513E+20	1,344160E+21	1,344206E+21	9,840203E+20	3,681257E+20	7,988316E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985514E+18
631	3,680307E+20	9,839457E+20	1,344173E+21	1,344183E+21	9,839611E+20	3,680424E+20	7,986541E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,988223E+18
632	3,681044E+20	9,839523E+20	1,344099E+21	1,344068E+21	9,838958E+20	3,680554E+20	7,983520E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983993E+18
633	3,680209E+20	9,838580E+20	1,344049E+21	1,344074E+21	9,839129E+20	3,680813E+20	7,990700E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987896E+18
634	3,680299E+20	9,838846E+20	1,344054E+21	1,344023E+21	9,838076E+20	3,679772E+20	7,984326E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987912E+18
635	3,680583E+20	9,838328E+20	1,343944E+21	1,343939E+21	9,838108E+20	3,680365E+20	7,986716E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,984676E+18
636	3,679623E+20	9,837566E+20	1,343940E+21	1,343966E+21	9,838224E+20	3,680222E+20	7,989855E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990567E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
637	3,680314E+20	9,838056E+20	1,343931E+21	1,343901E+21	9,837292E+20	3,679600E+20	7,984409E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987418E+18
638	3,680185E+20	9,837518E+20	1,343853E+21	1,343881E+21	9,837895E+20	3,680435E+20	7,989408E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985200E+18
639	3,679525E+20	9,837472E+20	1,343917E+21	1,343924E+21	9,837756E+20	3,679871E+20	7,988341E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990791E+18
640	3,680404E+20	9,838003E+20	1,343913E+21	1,343882E+21	9,837416E+20	3,679903E+20	7,985623E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,984108E+18
641	3,679841E+20	9,837443E+20	1,343903E+21	1,343951E+21	9,838352E+20	3,680582E+20	7,990086E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987256E+18
642	3,679920E+20	9,838179E+20	1,343988E+21	1,343983E+21	9,837998E+20	3,679769E+20	7,986106E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,989793E+18
643	3,680730E+20	9,838550E+20	1,343974E+21	1,343963E+21	9,838318E+20	3,680381E+20	7,984781E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983403E+18
644	3,680016E+20	9,838344E+20	1,344035E+21	1,344064E+21	9,839043E+20	3,680660E+20	7,989265E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990148E+18
645	3,680640E+20	9,839301E+20	1,344107E+21	1,344079E+21	9,838538E+20	3,679993E+20	7,984458E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985462E+18
646	3,680770E+20	9,839132E+20	1,344066E+21	1,344078E+21	9,839254E+20	3,680866E+20	7,986135E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983517E+18
647	3,679931E+20	9,838722E+20	1,344108E+21	1,344130E+21	9,839358E+20	3,680552E+20	7,989439E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,989615E+18
648	3,680774E+20	9,839189E+20	1,344088E+21	1,344063E+21	9,838642E+20	3,680199E+20	7,983234E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,984153E+18
649	3,680399E+20	9,838468E+20	1,344006E+21	1,344044E+21	9,839077E+20	3,680876E+20	7,989160E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,986905E+18
650	3,680026E+20	9,838547E+20	1,344032E+21	1,344024E+21	9,838364E+20	3,679952E+20	7,986813E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,989400E+18
651	3,680716E+20	9,838593E+20	1,343967E+21	1,343925E+21	9,837797E+20	3,680081E+20	7,983971E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,984591E+18
652	3,679790E+20	9,837509E+20	1,343914E+21	1,343940E+21	9,838109E+20	3,680415E+20	7,991390E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,988849E+18
653	3,679905E+20	9,837724E+20	1,343916E+21	1,343900E+21	9,837186E+20	3,679437E+20	7,985329E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,988778E+18
654	3,680212E+20	9,837315E+20	1,343806E+21	1,343804E+21	9,837187E+20	3,680059E+20	7,987808E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985280E+18
655	3,679232E+20	9,836461E+20	1,343792E+21	1,343823E+21	9,837232E+20	3,679907E+20	7,991010E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991102E+18
656	3,679949E+20	9,837088E+20	1,343792E+21	1,343759E+21	9,836349E+20	3,679292E+20	7,985496E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987738E+18
657	3,679782E+20	9,836545E+20	1,343726E+21	1,343745E+21	9,836899E+20	3,680119E+20	7,990554E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985841E+18
658	3,679180E+20	9,836525E+20	1,343792E+21	1,343798E+21	9,836769E+20	3,679485E+20	7,988891E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991899E+18
659	3,680105E+20	9,837084E+20	1,343788E+21	1,343761E+21	9,836528E+20	3,679523E+20	7,985756E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985294E+18
660	3,679597E+20	9,836580E+20	1,343779E+21	1,343828E+21	9,837483E+20	3,680248E+20	7,990168E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,988929E+18
661	3,679741E+20	9,837449E+20	1,343882E+21	1,343877E+21	9,837208E+20	3,679479E+20	7,986741E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990407E+18
662	3,680498E+20	9,837937E+20	1,343883E+21	1,343857E+21	9,837514E+20	3,680110E+20	7,985580E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983347E+18
663	3,679633E+20	9,837451E+20	1,343927E+21	1,343956E+21	9,838221E+20	3,680398E+20	7,990609E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,989988E+18
664	3,680221E+20	9,838328E+20	1,343986E+21	1,343966E+21	9,837794E+20	3,679723E+20	7,985439E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985756E+18
665	3,680346E+20	9,838055E+20	1,343929E+21	1,343944E+21	9,838359E+20	3,680570E+20	7,987111E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,984876E+18
666	3,679644E+20	9,837712E+20	1,343963E+21	1,343984E+21	9,838301E+20	3,680150E+20	7,989693E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991062E+18
667	3,680515E+20	9,838276E+20	1,343948E+21	1,343916E+21	9,837559E+20	3,679765E+20	7,983300E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985379E+18
668	3,680107E+20	9,837559E+20	1,343874E+21	1,343899E+21	9,837978E+20	3,680467E+20	7,989617E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987904E+18
669	3,679691E+20	9,837599E+20	1,343911E+21	1,343899E+21	9,837356E+20	3,679587E+20	7,987809E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,989736E+18
670	3,680303E+20	9,837598E+20	1,343842E+21	1,343799E+21	9,836841E+20	3,679735E+20	7,985268E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,984902E+18
671	3,679315E+20	9,836277E+20	1,343760E+21	1,343799E+21	9,837135E+20	3,680087E+20	7,992687E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,989511E+18
672	3,679508E+20	9,836591E+20	1,343756E+21	1,343746E+21	9,836220E+20	3,679117E+20	7,986409E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,989808E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
673	3,679833E+20	9,836250E+20	1,343657E+21	1,343647E+21	9,836106E+20	3,679715E+20	7,988967E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,986423E+18
674	3,678933E+20	9,835507E+20	1,343653E+21	1,343675E+21	9,836094E+20	3,679489E+20	7,991480E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991955E+18
675	3,679595E+20	9,836133E+20	1,343665E+21	1,343628E+21	9,835321E+20	3,678880E+20	7,985956E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,988440E+18
676	3,679414E+20	9,835543E+20	1,343600E+21	1,343621E+21	9,835976E+20	3,679751E+20	7,990768E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987031E+18
677	3,678888E+20	9,835587E+20	1,343671E+21	1,343684E+21	9,835949E+20	3,679186E+20	7,989540E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992797E+18
678	3,679850E+20	9,836311E+20	1,343677E+21	1,343647E+21	9,835725E+20	3,679240E+20	7,986391E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985767E+18
679	3,679318E+20	9,835761E+20	1,343665E+21	1,343712E+21	9,836654E+20	3,679974E+20	7,990983E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,989310E+18
680	3,679458E+20	9,836711E+20	1,343773E+21	1,343761E+21	9,836443E+20	3,679245E+20	7,987880E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990386E+18
681	3,680123E+20	9,837100E+20	1,343781E+21	1,343748E+21	9,836684E+20	3,679846E+20	7,986681E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,983999E+18
682	3,679316E+20	9,836530E+20	1,343808E+21	1,343841E+21	9,837334E+20	3,680048E+20	7,991152E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990854E+18
683	3,679888E+20	9,837346E+20	1,343854E+21	1,343841E+21	9,836894E+20	3,679355E+20	7,985602E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987077E+18
684	3,680063E+20	9,837094E+20	1,343792E+21	1,343805E+21	9,837354E+20	3,680194E+20	7,987272E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,986519E+18
685	3,679404E+20	9,836832E+20	1,343835E+21	1,343850E+21	9,837305E+20	3,679805E+20	7,990435E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991614E+18
686	3,680196E+20	9,837445E+20	1,343831E+21	1,343785E+21	9,836549E+20	3,679421E+20	7,984369E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985390E+18
687	3,679651E+20	9,836459E+20	1,343738E+21	1,343766E+21	9,836957E+20	3,680116E+20	7,991021E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987901E+18
688	3,679222E+20	9,836450E+20	1,343762E+21	1,343760E+21	9,836436E+20	3,679275E+20	7,989060E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990259E+18
689	3,679831E+20	9,836390E+20	1,343689E+21	1,343650E+21	9,835802E+20	3,679390E+20	7,986503E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,986444E+18
690	3,679000E+20	9,835169E+20	1,343601E+21	1,343641E+21	9,835990E+20	3,679653E+20	7,992964E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990868E+18
691	3,679200E+20	9,835604E+20	1,343609E+21	1,343593E+21	9,835108E+20	3,678685E+20	7,986633E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991223E+18
692	3,679519E+20	9,835290E+20	1,343521E+21	1,343501E+21	9,835001E+20	3,679314E+20	7,989429E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987480E+18
693	3,678612E+20	9,834555E+20	1,343532E+21	1,343554E+21	9,835131E+20	3,679143E+20	7,992295E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992401E+18
694	3,679226E+20	9,835200E+20	1,343545E+21	1,343511E+21	9,834442E+20	3,678557E+20	7,986932E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,988798E+18
695	3,679028E+20	9,834478E+20	1,343461E+21	1,343494E+21	9,835087E+20	3,679446E+20	7,991613E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987692E+18
696	3,678602E+20	9,834727E+20	1,343541E+21	1,343554E+21	9,835121E+20	3,678930E+20	7,990505E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,993444E+18
697	3,679552E+20	9,835532E+20	1,343566E+21	1,343526E+21	9,834830E+20	3,678964E+20	7,987468E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,986495E+18
698	3,679071E+20	9,835029E+20	1,343560E+21	1,343598E+21	9,835735E+20	3,679634E+20	7,991478E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,989657E+18
699	3,679122E+20	9,835896E+20	1,343670E+21	1,343658E+21	9,835627E+20	3,678919E+20	7,988418E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990880E+18
700	3,679760E+20	9,836150E+20	1,343664E+21	1,343640E+21	9,835877E+20	3,679526E+20	7,986848E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,985282E+18
701	3,679032E+20	9,835586E+20	1,343685E+21	1,343729E+21	9,836525E+20	3,679757E+20	7,991736E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991727E+18
702	3,679605E+20	9,836481E+20	1,343732E+21	1,343718E+21	9,836008E+20	3,679044E+20	7,986176E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987639E+18
703	3,679734E+20	9,836143E+20	1,343658E+21	1,343670E+21	9,836369E+20	3,679867E+20	7,988225E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,986934E+18
704	3,679066E+20	9,835953E+20	1,343703E+21	1,343710E+21	9,836336E+20	3,679516E+20	7,991808E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991638E+18
705	3,679750E+20	9,836426E+20	1,343702E+21	1,343652E+21	9,835525E+20	3,679083E+20	7,985831E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,986337E+18
706	3,679284E+20	9,835364E+20	1,343591E+21	1,343625E+21	9,835883E+20	3,679687E+20	7,991610E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,989054E+18
707	3,678860E+20	9,835340E+20	1,343608E+21	1,343610E+21	9,835363E+20	3,678856E+20	7,989301E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992072E+18
708	3,679524E+20	9,835336E+20	1,343537E+21	1,343496E+21	9,834666E+20	3,678956E+20	7,986705E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,988359E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
709	3,678742E+20	9,834235E+20	1,343465E+21	1,343497E+21	9,834898E+20	3,679270E+20	7,993612E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991433E+18
710	3,678829E+20	9,834677E+20	1,343484E+21	1,343460E+21	9,834071E+20	3,678333E+20	7,987723E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991195E+18
711	3,679036E+20	9,834152E+20	1,343382E+21	1,343371E+21	9,834011E+20	3,678974E+20	7,990741E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987418E+18
712	3,678176E+20	9,833463E+20	1,343383E+21	1,343416E+21	9,834254E+20	3,678874E+20	7,993597E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992711E+18
713	3,678802E+20	9,834138E+20	1,343406E+21	1,343378E+21	9,833521E+20	3,678270E+20	7,988229E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990024E+18
714	3,678788E+20	9,833601E+20	1,343329E+21	1,343362E+21	9,834103E+20	3,679065E+20	7,991796E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,988691E+18
715	3,678361E+20	9,833988E+20	1,343428E+21	1,343434E+21	9,834205E+20	3,678586E+20	7,990821E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,994484E+18
716	3,679282E+20	9,834784E+20	1,343466E+21	1,343419E+21	9,833948E+20	3,678628E+20	7,987764E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987379E+18
717	3,678787E+20	9,834248E+20	1,343464E+21	1,343505E+21	9,834964E+20	3,679343E+20	7,992128E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,989992E+18
718	3,678770E+20	9,835022E+20	1,343561E+21	1,343559E+21	9,834903E+20	3,678646E+20	7,989179E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991187E+18
719	3,679385E+20	9,835113E+20	1,343526E+21	1,343517E+21	9,835040E+20	3,679241E+20	7,987581E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,986161E+18
720	3,678762E+20	9,834709E+20	1,343544E+21	1,343589E+21	9,835643E+20	3,679497E+20	7,992859E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992294E+18
721	3,679271E+20	9,835610E+20	1,343606E+21	1,343582E+21	9,835006E+20	3,678737E+20	7,987406E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,988598E+18
722	3,679444E+20	9,835264E+20	1,343531E+21	1,343535E+21	9,835270E+20	3,679443E+20	7,988793E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987534E+18
723	3,678686E+20	9,834998E+20	1,343576E+21	1,343582E+21	9,835300E+20	3,679105E+20	7,992272E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992633E+18
724	3,679363E+20	9,835349E+20	1,343561E+21	1,343518E+21	9,834504E+20	3,678674E+20	7,986115E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,988022E+18
725	3,678964E+20	9,834331E+20	1,343451E+21	1,343489E+21	9,834883E+20	3,679318E+20	7,992230E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990082E+18
726	3,678532E+20	9,834364E+20	1,343469E+21	1,343471E+21	9,834350E+20	3,678498E+20	7,990033E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992669E+18
727	3,679116E+20	9,834241E+20	1,343386E+21	1,343349E+21	9,833607E+20	3,678615E+20	7,988024E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,988710E+18
728	3,678346E+20	9,833219E+20	1,343317E+21	1,343350E+21	9,833900E+20	3,678980E+20	7,995210E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991272E+18
729	3,678325E+20	9,833538E+20	1,343345E+21	1,343324E+21	9,833050E+20	3,678010E+20	7,989415E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992028E+18
730	3,678648E+20	9,833022E+20	1,343230E+21	1,343227E+21	9,832948E+20	3,678556E+20	7,991319E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,988353E+18
731	3,677849E+20	9,832477E+20	1,343241E+21	1,343274E+21	9,833212E+20	3,678480E+20	7,993792E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,994398E+18
732	3,678556E+20	9,833278E+20	1,343277E+21	1,343244E+21	9,832520E+20	3,677882E+20	7,988411E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991612E+18
733	3,678588E+20	9,832918E+20	1,343228E+21	1,343250E+21	9,833213E+20	3,678731E+20	7,992169E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,989229E+18
734	3,678069E+20	9,833277E+20	1,343336E+21	1,343336E+21	9,833417E+20	3,678302E+20	7,991657E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,994389E+18
735	3,678862E+20	9,833815E+20	1,343352E+21	1,343320E+21	9,833221E+20	3,678365E+20	7,988719E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987507E+18
736	3,678427E+20	9,833313E+20	1,343333E+21	1,343389E+21	9,834269E+20	3,679133E+20	7,993248E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990334E+18
737	3,678387E+20	9,834037E+20	1,343431E+21	1,343437E+21	9,834076E+20	3,678392E+20	7,990315E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992374E+18
738	3,679150E+20	9,834253E+20	1,343393E+21	1,343382E+21	9,834049E+20	3,678858E+20	7,987800E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987214E+18
739	3,678521E+20	9,833960E+20	1,343423E+21	1,343455E+21	9,834612E+20	3,679127E+20	7,993323E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,993369E+18
740	3,678978E+20	9,834795E+20	1,343492E+21	1,343459E+21	9,833993E+20	3,678354E+20	7,987844E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,989752E+18
741	3,679133E+20	9,834406E+20	1,343421E+21	1,343421E+21	9,834326E+20	3,679064E+20	7,989512E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,988215E+18
742	3,678308E+20	9,833996E+20	1,343447E+21	1,343460E+21	9,834399E+20	3,678760E+20	7,993029E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,993132E+18
743	3,678934E+20	9,834187E+20	1,343407E+21	1,343377E+21	9,833529E+20	3,678332E+20	7,987077E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,989029E+18
744	3,678616E+20	9,833306E+20	1,343292E+21	1,343332E+21	9,833875E+20	3,679021E+20	7,993779E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990330E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
745	3,678081E+20	9,833269E+20	1,343323E+21	1,343322E+21	9,833271E+20	3,678182E+20	7,991745E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,993355E+18
746	3,678701E+20	9,833122E+20	1,343234E+21	1,343197E+21	9,832443E+20	3,678184E+20	7,989082E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,989181E+18
747	3,677903E+20	9,832093E+20	1,343167E+21	1,343201E+21	9,832778E+20	3,678554E+20	7,995751E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992433E+18
748	3,677933E+20	9,832396E+20	1,343193E+21	1,343178E+21	9,831976E+20	3,677585E+20	7,989637E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,993904E+18
749	3,678379E+20	9,832089E+20	1,343098E+21	1,343092E+21	9,831928E+20	3,678147E+20	7,991455E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,989611E+18
750	3,677610E+20	9,831694E+20	1,343124E+21	1,343151E+21	9,832288E+20	3,678125E+20	7,994055E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995057E+18
751	3,678239E+20	9,832433E+20	1,343160E+21	1,343127E+21	9,831674E+20	3,677596E+20	7,989440E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991887E+18
752	3,678274E+20	9,832142E+20	1,343117E+21	1,343140E+21	9,832471E+20	3,678513E+20	7,993546E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,988991E+18
753	3,677638E+20	9,832320E+20	1,343225E+21	1,343235E+21	9,832686E+20	3,678075E+20	7,993187E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995064E+18
754	3,678521E+20	9,832812E+20	1,343218E+21	1,343198E+21	9,832375E+20	3,678029E+20	7,989145E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,988455E+18
755	3,678159E+20	9,832458E+20	1,343204E+21	1,343254E+21	9,833317E+20	3,678784E+20	7,993361E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991995E+18
756	3,678173E+20	9,833240E+20	1,343308E+21	1,343304E+21	9,833088E+20	3,678025E+20	7,990538E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,993754E+18
757	3,678933E+20	9,833581E+20	1,343294E+21	1,343264E+21	9,833100E+20	3,678495E+20	7,988310E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987739E+18
758	3,678208E+20	9,833199E+20	1,343326E+21	1,343349E+21	9,833727E+20	3,678785E+20	7,994157E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,993238E+18
759	3,678524E+20	9,833731E+20	1,343363E+21	1,343344E+21	9,833168E+20	3,678058E+20	7,988989E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990080E+18
760	3,678730E+20	9,833350E+20	1,343275E+21	1,343289E+21	9,833512E+20	3,678806E+20	7,990968E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,988602E+18
761	3,677873E+20	9,832859E+20	1,343301E+21	1,343321E+21	9,833453E+20	3,678467E+20	7,994418E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,994209E+18
762	3,678587E+20	9,833098E+20	1,343249E+21	1,343221E+21	9,832419E+20	3,677918E+20	7,987751E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990127E+18
763	3,678265E+20	9,832325E+20	1,343146E+21	1,343171E+21	9,832682E+20	3,678607E+20	7,994497E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991462E+18
764	3,677700E+20	9,832183E+20	1,343179E+21	1,343172E+21	9,832108E+20	3,677740E+20	7,992253E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,994681E+18
765	3,678331E+20	9,832079E+20	1,343097E+21	1,343058E+21	9,831362E+20	3,677739E+20	7,989648E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990300E+18
766	3,677557E+20	9,831058E+20	1,343026E+21	1,343062E+21	9,831748E+20	3,678139E+20	7,996016E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,993357E+18
767	3,677581E+20	9,831339E+20	1,343045E+21	1,343035E+21	9,830989E+20	3,677239E+20	7,990422E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995021E+18
768	3,678113E+20	9,831259E+20	1,342967E+21	1,342956E+21	9,831028E+20	3,677865E+20	7,992731E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,989773E+18
769	3,677238E+20	9,830827E+20	1,343014E+21	1,343035E+21	9,831423E+20	3,677871E+20	7,995566E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995461E+18
770	3,677869E+20	9,831497E+20	1,343040E+21	1,343012E+21	9,830806E+20	3,677264E+20	7,990418E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992049E+18
771	3,677884E+20	9,831199E+20	1,342996E+21	1,343020E+21	9,831611E+20	3,678198E+20	7,994010E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,989958E+18
772	3,677302E+20	9,831309E+20	1,343095E+21	1,343113E+21	9,831834E+20	3,677748E+20	7,993471E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996467E+18
773	3,678280E+20	9,832008E+20	1,343104E+21	1,343078E+21	9,831486E+20	3,677676E+20	7,989266E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,989530E+18
774	3,677950E+20	9,831750E+20	1,343097E+21	1,343136E+21	9,832428E+20	3,678447E+20	7,993652E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992471E+18
775	3,677866E+20	9,832429E+20	1,343197E+21	1,343188E+21	9,832244E+20	3,677752E+20	7,991614E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,993998E+18
776	3,678612E+20	9,832777E+20	1,343183E+21	1,343154E+21	9,832309E+20	3,678244E+20	7,989859E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,987579E+18
777	3,677760E+20	9,832175E+20	1,343207E+21	1,343239E+21	9,832934E+20	3,678520E+20	7,995652E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,993899E+18
778	3,678140E+20	9,832612E+20	1,343213E+21	1,343205E+21	9,832226E+20	3,677689E+20	7,989605E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991234E+18
779	3,678400E+20	9,832338E+20	1,343126E+21	1,343133E+21	9,832402E+20	3,678407E+20	7,991365E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990390E+18
780	3,677584E+20	9,831834E+20	1,343152E+21	1,343166E+21	9,832311E+20	3,678042E+20	7,994734E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995652E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
781	3,678272E+20	9,832179E+20	1,343120E+21	1,343074E+21	9,831273E+20	3,677479E+20	7,988292E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991142E+18
782	3,677894E+20	9,831326E+20	1,343016E+21	1,343033E+21	9,831586E+20	3,678176E+20	7,995114E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991738E+18
783	3,677238E+20	9,830981E+20	1,343025E+21	1,343029E+21	9,831107E+20	3,677381E+20	7,993151E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995443E+18
784	3,677945E+20	9,830981E+20	1,342944E+21	1,342913E+21	9,830415E+20	3,677424E+20	7,991039E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990759E+18
785	3,677166E+20	9,830006E+20	1,342887E+21	1,342927E+21	9,830788E+20	3,677823E+20	7,997156E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,994265E+18
786	3,677264E+20	9,830369E+20	1,342903E+21	1,342892E+21	9,829992E+20	3,676887E+20	7,991372E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995716E+18
787	3,677782E+20	9,830421E+20	1,342850E+21	1,342824E+21	9,830023E+20	3,677529E+20	7,993519E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990608E+18
788	3,676895E+20	9,829876E+20	1,342897E+21	1,342918E+21	9,830501E+20	3,677526E+20	7,996192E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996294E+18
789	3,677516E+20	9,830575E+20	1,342925E+21	1,342899E+21	9,829968E+20	3,676921E+20	7,990885E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992937E+18
790	3,677586E+20	9,830304E+20	1,342876E+21	1,342901E+21	9,830755E+20	3,677855E+20	7,994023E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990783E+18
791	3,677019E+20	9,830388E+20	1,342963E+21	1,342984E+21	9,830980E+20	3,677467E+20	7,994174E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,997258E+18
792	3,678047E+20	9,831271E+20	1,342988E+21	1,342959E+21	9,830685E+20	3,677435E+20	7,990556E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,989515E+18
793	3,677615E+20	9,830968E+20	1,342999E+21	1,343033E+21	9,831611E+20	3,678191E+20	7,995021E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992799E+18
794	3,677506E+20	9,831499E+20	1,343079E+21	1,343073E+21	9,831382E+20	3,677433E+20	7,992617E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,994274E+18
795	3,678231E+20	9,831826E+20	1,343061E+21	1,343028E+21	9,831390E+20	3,677900E+20	7,990259E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,988955E+18
796	3,677434E+20	9,831122E+20	1,343067E+21	1,343104E+21	9,831972E+20	3,678142E+20	7,995795E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995381E+18
797	3,677864E+20	9,831709E+20	1,343082E+21	1,343066E+21	9,831213E+20	3,677282E+20	7,989658E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992686E+18
798	3,678134E+20	9,831464E+20	1,342998E+21	1,342992E+21	9,831338E+20	3,678006E+20	7,991768E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991092E+18
799	3,677222E+20	9,830806E+20	1,343012E+21	1,343023E+21	9,831279E+20	3,677709E+20	7,995862E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996006E+18
800	3,677865E+20	9,831126E+20	1,342980E+21	1,342940E+21	9,830303E+20	3,677166E+20	7,990081E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991226E+18
801	3,677408E+20	9,830133E+20	1,342871E+21	1,342898E+21	9,830602E+20	3,677837E+20	7,996538E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992435E+18
802	3,676831E+20	9,829781E+20	1,342859E+21	1,342870E+21	9,830008E+20	3,676989E+20	7,993950E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996537E+18
803	3,677604E+20	9,829982E+20	1,342796E+21	1,342752E+21	9,829240E+20	3,677018E+20	7,991755E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992168E+18
804	3,676857E+20	9,829035E+20	1,342750E+21	1,342783E+21	9,829708E+20	3,677427E+20	7,997649E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995210E+18
805	3,676933E+20	9,829521E+20	1,342789E+21	1,342766E+21	9,829001E+20	3,676511E+20	7,992107E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996450E+18
806	3,677409E+20	9,829467E+20	1,342734E+21	1,342709E+21	9,829120E+20	3,677169E+20	7,994009E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990873E+18
807	3,676491E+20	9,828770E+20	1,342758E+21	1,342797E+21	9,829705E+20	3,677248E+20	7,996866E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996975E+18
808	3,677189E+20	9,829601E+20	1,342791E+21	1,342778E+21	9,829184E+20	3,676673E+20	7,992009E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,993340E+18
809	3,677273E+20	9,829429E+20	1,342758E+21	1,342784E+21	9,829916E+20	3,677580E+20	7,994774E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991589E+18
810	3,676769E+20	9,829595E+20	1,342840E+21	1,342855E+21	9,830069E+20	3,677166E+20	7,995035E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,997743E+18
811	3,677769E+20	9,830569E+20	1,342887E+21	1,342840E+21	9,829737E+20	3,677117E+20	7,991248E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990374E+18
812	3,677315E+20	9,830110E+20	1,342891E+21	1,342926E+21	9,830745E+20	3,677839E+20	7,995438E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,993762E+18
813	3,677196E+20	9,830642E+20	1,342965E+21	1,342961E+21	9,830538E+20	3,677081E+20	7,992887E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995463E+18
814	3,677949E+20	9,830929E+20	1,342938E+21	1,342904E+21	9,830464E+20	3,677525E+20	7,990215E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990111E+18
815	3,677147E+20	9,830153E+20	1,342926E+21	1,342965E+21	9,831022E+20	3,677828E+20	7,996504E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996078E+18
816	3,677543E+20	9,830796E+20	1,342950E+21	1,342933E+21	9,830279E+20	3,677004E+20	7,991223E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992723E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
817	3,677695E+20	9,830446E+20	1,342873E+21	1,342865E+21	9,830348E+20	3,677694E+20	7,993445E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991282E+18
818	3,676762E+20	9,829617E+20	1,342855E+21	1,342875E+21	9,830222E+20	3,677353E+20	7,997197E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996246E+18
819	3,677403E+20	9,829960E+20	1,342825E+21	1,342785E+21	9,829183E+20	3,676776E+20	7,990958E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992630E+18
820	3,677040E+20	9,828966E+20	1,342712E+21	1,342743E+21	9,829459E+20	3,677390E+20	7,996829E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,993817E+18
821	3,676530E+20	9,828830E+20	1,342718E+21	1,342720E+21	9,828887E+20	3,676559E+20	7,994182E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998010E+18
822	3,677314E+20	9,829107E+20	1,342671E+21	1,342616E+21	9,828172E+20	3,676606E+20	7,992155E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992927E+18
823	3,676509E+20	9,828062E+20	1,342620E+21	1,342653E+21	9,828756E+20	3,677109E+20	7,998537E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995531E+18
824	3,676537E+20	9,828514E+20	1,342663E+21	1,342653E+21	9,828199E+20	3,676255E+20	7,993730E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996585E+18
825	3,676976E+20	9,828393E+20	1,342604E+21	1,342594E+21	9,828307E+20	3,676894E+20	7,995066E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991575E+18
826	3,676164E+20	9,827729E+20	1,342606E+21	1,342655E+21	9,828757E+20	3,676933E+20	7,997544E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,997886E+18
827	3,676922E+20	9,828793E+20	1,342666E+21	1,342639E+21	9,828166E+20	3,676335E+20	7,992546E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,994577E+18
828	3,677043E+20	9,828677E+20	1,342648E+21	1,342663E+21	9,828953E+20	3,677215E+20	7,995018E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992463E+18
829	3,676514E+20	9,828949E+20	1,342747E+21	1,342749E+21	9,829180E+20	3,676826E+20	7,995604E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998410E+18
830	3,677458E+20	9,829782E+20	1,342789E+21	1,342743E+21	9,828934E+20	3,676777E+20	7,991517E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990840E+18
831	3,676969E+20	9,829147E+20	1,342766E+21	1,342815E+21	9,829996E+20	3,677571E+20	7,996047E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,994375E+18
832	3,676871E+20	9,829696E+20	1,342838E+21	1,342847E+21	9,829777E+20	3,676845E+20	7,994148E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995757E+18
833	3,677588E+20	9,829980E+20	1,342811E+21	1,342784E+21	9,829597E+20	3,677248E+20	7,991281E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,990804E+18
834	3,676811E+20	9,829170E+20	1,342780E+21	1,342819E+21	9,829999E+20	3,677516E+20	7,997820E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996338E+18
835	3,677143E+20	9,829821E+20	1,342817E+21	1,342787E+21	9,829146E+20	3,676645E+20	7,992389E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,993621E+18
836	3,677277E+20	9,829302E+20	1,342726E+21	1,342724E+21	9,829247E+20	3,677259E+20	7,994173E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992343E+18
837	3,676389E+20	9,828560E+20	1,342705E+21	1,342724E+21	9,829093E+20	3,676906E+20	7,997456E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,997785E+18
838	3,677083E+20	9,828921E+20	1,342674E+21	1,342631E+21	9,828021E+20	3,676308E+20	7,991043E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,994099E+18
839	3,676738E+20	9,827959E+20	1,342562E+21	1,342591E+21	9,828377E+20	3,677002E+20	7,997349E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,994697E+18
840	3,676202E+20	9,827896E+20	1,342588E+21	1,342589E+21	9,827919E+20	3,676263E+20	7,995733E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998233E+18
841	3,676869E+20	9,828082E+20	1,342549E+21	1,342501E+21	9,827260E+20	3,676306E+20	7,993686E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,993144E+18
842	3,676063E+20	9,826912E+20	1,342469E+21	1,342517E+21	9,827823E+20	3,676799E+20	7,999658E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995780E+18
843	3,676106E+20	9,827429E+20	1,342518E+21	1,342510E+21	9,827209E+20	3,675927E+20	7,994516E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,997810E+18
844	3,676651E+20	9,827365E+20	1,342462E+21	1,342458E+21	9,827313E+20	3,676507E+20	7,995222E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992750E+18
845	3,675946E+20	9,827003E+20	1,342486E+21	1,342523E+21	9,827769E+20	3,676565E+20	7,997723E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,999129E+18
846	3,676702E+20	9,828136E+20	1,342566E+21	1,342527E+21	9,827256E+20	3,675989E+20	7,992941E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995173E+18
847	3,676772E+20	9,827939E+20	1,342548E+21	1,342563E+21	9,828165E+20	3,676931E+20	7,995714E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992809E+18
848	3,676185E+20	9,828112E+20	1,342646E+21	1,342662E+21	9,828530E+20	3,676616E+20	7,997123E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998487E+18
849	3,677069E+20	9,828839E+20	1,342676E+21	1,342646E+21	9,828242E+20	3,676532E+20	7,992433E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991529E+18
850	3,676647E+20	9,828163E+20	1,342620E+21	1,342677E+21	9,829096E+20	3,677289E+20	7,997007E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,994941E+18
851	3,676543E+20	9,828807E+20	1,342706E+21	1,342705E+21	9,828761E+20	3,676528E+20	7,995056E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996678E+18
852	3,677251E+20	9,829038E+20	1,342681E+21	1,342650E+21	9,828540E+20	3,676856E+20	7,991987E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,991706E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
853	3,676470E+20	9,828270E+20	1,342650E+21	1,342680E+21	9,828905E+20	3,677108E+20	7,998559E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,997239E+18
854	3,676761E+20	9,828784E+20	1,342680E+21	1,342652E+21	9,828098E+20	3,676214E+20	7,992630E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,994772E+18
855	3,676913E+20	9,828194E+20	1,342573E+21	1,342577E+21	9,828205E+20	3,676856E+20	7,994540E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,993463E+18
856	3,676056E+20	9,827524E+20	1,342560E+21	1,342586E+21	9,828097E+20	3,676565E+20	7,998466E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998435E+18
857	3,676711E+20	9,827934E+20	1,342539E+21	1,342499E+21	9,827042E+20	3,675971E+20	7,992175E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,994831E+18
858	3,676358E+20	9,826933E+20	1,342413E+21	1,342441E+21	9,827318E+20	3,676680E+20	7,998824E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,994813E+18
859	3,675758E+20	9,826857E+20	1,342454E+21	1,342449E+21	9,826862E+20	3,675935E+20	7,997143E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998994E+18
860	3,676419E+20	9,826899E+20	1,342402E+21	1,342367E+21	9,826271E+20	3,675922E+20	7,994576E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,994165E+18
861	3,675720E+20	9,825901E+20	1,342320E+21	1,342369E+21	9,826781E+20	3,676401E+20	7,999867E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,997263E+18
862	3,675828E+20	9,826504E+20	1,342381E+21	1,342369E+21	9,826161E+20	3,675515E+20	7,994587E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,999112E+18
863	3,676410E+20	9,826553E+20	1,342337E+21	1,342328E+21	9,826360E+20	3,676153E+20	7,995537E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,993407E+18
864	3,675682E+20	9,826282E+20	1,342389E+21	1,342421E+21	9,826960E+20	3,676313E+20	7,999125E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,999177E+18
865	3,676332E+20	9,827318E+20	1,342471E+21	1,342440E+21	9,826566E+20	3,675752E+20	7,994329E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995164E+18
866	3,676384E+20	9,826979E+20	1,342424E+21	1,342452E+21	9,827427E+20	3,676686E+20	7,996779E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,993071E+18
867	3,675818E+20	9,827173E+20	1,342522E+21	1,342538E+21	9,827683E+20	3,676344E+20	7,997965E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,999472E+18
868	3,676743E+20	9,827861E+20	1,342542E+21	1,342520E+21	9,827341E+20	3,676176E+20	7,992647E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992775E+18
869	3,676417E+20	9,827416E+20	1,342494E+21	1,342539E+21	9,828086E+20	3,676908E+20	7,997230E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996221E+18
870	3,676273E+20	9,827996E+20	1,342587E+21	1,342574E+21	9,827731E+20	3,676135E+20	7,995408E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,997525E+18
871	3,676920E+20	9,828112E+20	1,342555E+21	1,342524E+21	9,827573E+20	3,676483E+20	7,992641E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992462E+18
872	3,676105E+20	9,827260E+20	1,342522E+21	1,342561E+21	9,828003E+20	3,676789E+20	7,999910E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,997702E+18
873	3,676353E+20	9,827703E+20	1,342539E+21	1,342522E+21	9,827169E+20	3,675882E+20	7,993559E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995712E+18
874	3,676548E+20	9,827113E+20	1,342412E+21	1,342417E+21	9,827111E+20	3,676495E+20	7,995674E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,994104E+18
875	3,675683E+20	9,826542E+20	1,342418E+21	1,342430E+21	9,826966E+20	3,676208E+20	7,999596E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,999210E+18
876	3,676289E+20	9,826854E+20	1,342399E+21	1,342359E+21	9,825972E+20	3,675578E+20	7,993325E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995662E+18
877	3,675955E+20	9,825911E+20	1,342272E+21	1,342297E+21	9,826239E+20	3,676279E+20	7,999696E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995693E+18
878	3,675340E+20	9,825710E+20	1,342308E+21	1,342311E+21	9,825840E+20	3,675527E+20	7,997534E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000160E+18
879	3,676052E+20	9,825781E+20	1,342248E+21	1,342223E+21	9,825275E+20	3,675537E+20	7,994899E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995297E+18
880	3,675433E+20	9,824948E+20	1,342187E+21	1,342239E+21	9,825837E+20	3,676078E+20	8,000659E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,997959E+18
881	3,675532E+20	9,825685E+20	1,342265E+21	1,342251E+21	9,825304E+20	3,675226E+20	7,995574E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,999633E+18
882	3,676103E+20	9,825745E+20	1,342220E+21	1,342202E+21	9,825457E+20	3,675877E+20	7,996834E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,993396E+18
883	3,675325E+20	9,825469E+20	1,342286E+21	1,342312E+21	9,826130E+20	3,676046E+20	8,000339E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,999731E+18
884	3,675955E+20	9,826342E+20	1,342353E+21	1,342336E+21	9,825816E+20	3,675441E+20	7,995040E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996109E+18
885	3,676111E+20	9,826140E+20	1,342296E+21	1,342323E+21	9,826532E+20	3,676334E+20	7,996822E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,994555E+18
886	3,675584E+20	9,826339E+20	1,342399E+21	1,342411E+21	9,826746E+20	3,675969E+20	7,997925E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000646E+18
887	3,676495E+20	9,827069E+20	1,342424E+21	1,342393E+21	9,826414E+20	3,675826E+20	7,992878E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,993565E+18
888	3,676125E+20	9,826615E+20	1,342390E+21	1,342428E+21	9,827202E+20	3,676621E+20	7,998572E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996372E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
889	3,675875E+20	9,827045E+20	1,342473E+21	1,342466E+21	9,826919E+20	3,675850E+20	7,996660E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,997680E+18
890	3,676484E+20	9,826994E+20	1,342407E+21	1,342385E+21	9,826636E+20	3,676168E+20	7,993944E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,992878E+18
891	3,675695E+20	9,826181E+20	1,342377E+21	1,342413E+21	9,826967E+20	3,676441E+20	8,000880E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998580E+18
892	3,675966E+20	9,826589E+20	1,342387E+21	1,342376E+21	9,826124E+20	3,675486E+20	7,994237E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996995E+18
893	3,676242E+20	9,826200E+20	1,342269E+21	1,342260E+21	9,825960E+20	3,676074E+20	7,996366E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995360E+18
894	3,675339E+20	9,825549E+20	1,342283E+21	1,342286E+21	9,825843E+20	3,675784E+20	8,000172E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000165E+18
895	3,675884E+20	9,825750E+20	1,342256E+21	1,342221E+21	9,824953E+20	3,675179E+20	7,994057E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996758E+18
896	3,675561E+20	9,824778E+20	1,342130E+21	1,342163E+21	9,825278E+20	3,675935E+20	8,000778E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996497E+18
897	3,674966E+20	9,824590E+20	1,342157E+21	1,342170E+21	9,824882E+20	3,675186E+20	7,998252E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,001066E+18
898	3,675712E+20	9,824752E+20	1,342094E+21	1,342066E+21	9,824209E+20	3,675187E+20	7,995940E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995816E+18
899	3,675124E+20	9,824121E+20	1,342066E+21	1,342099E+21	9,824793E+20	3,675742E+20	8,001604E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998509E+18
900	3,675172E+20	9,824782E+20	1,342151E+21	1,342135E+21	9,824410E+20	3,674908E+20	7,996753E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000220E+18
901	3,675784E+20	9,824936E+20	1,342109E+21	1,342087E+21	9,824587E+20	3,675531E+20	7,997311E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,994317E+18
902	3,675012E+20	9,824568E+20	1,342171E+21	1,342200E+21	9,825307E+20	3,675701E+20	8,000386E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000816E+18
903	3,675667E+20	9,825439E+20	1,342229E+21	1,342220E+21	9,825028E+20	3,675117E+20	7,995040E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,997103E+18
904	3,675865E+20	9,825341E+20	1,342188E+21	1,342213E+21	9,825734E+20	3,676059E+20	7,997451E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995160E+18
905	3,675307E+20	9,825541E+20	1,342290E+21	1,342301E+21	9,825968E+20	3,675716E+20	7,998918E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000716E+18
906	3,676133E+20	9,826175E+20	1,342304E+21	1,342268E+21	9,825515E+20	3,675562E+20	7,994369E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,993574E+18
907	3,675736E+20	9,825681E+20	1,342272E+21	1,342304E+21	9,826279E+20	3,676318E+20	7,999892E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996908E+18
908	3,675460E+20	9,825934E+20	1,342332E+21	1,342337E+21	9,826015E+20	3,675513E+20	7,997563E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998858E+18
909	3,676186E+20	9,826031E+20	1,342260E+21	1,342230E+21	9,825534E+20	3,675740E+20	7,994230E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,994565E+18
910	3,675422E+20	9,825234E+20	1,342236E+21	1,342264E+21	9,825836E+20	3,675987E+20	8,000901E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,999847E+18
911	3,675655E+20	9,825641E+20	1,342251E+21	1,342232E+21	9,825061E+20	3,675076E+20	7,994651E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998105E+18
912	3,675871E+20	9,825194E+20	1,342146E+21	1,342133E+21	9,824952E+20	3,675730E+20	7,997791E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995861E+18
913	3,674907E+20	9,824401E+20	1,342144E+21	1,342159E+21	9,824933E+20	3,675457E+20	8,001245E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000493E+18
914	3,675408E+20	9,824500E+20	1,342090E+21	1,342063E+21	9,823908E+20	3,674847E+20	7,995403E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,997409E+18
915	3,675158E+20	9,823655E+20	1,341974E+21	1,342003E+21	9,824170E+20	3,675568E+20	8,001636E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,997276E+18
916	3,674606E+20	9,823530E+20	1,342008E+21	1,342022E+21	9,823834E+20	3,674811E+20	7,998975E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,002166E+18
917	3,675443E+20	9,823943E+20	1,341964E+21	1,341919E+21	9,823106E+20	3,674787E+20	7,996589E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996776E+18
918	3,674835E+20	9,823308E+20	1,341958E+21	1,341982E+21	9,823815E+20	3,675354E+20	8,001921E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,999310E+18
919	3,674845E+20	9,823894E+20	1,342039E+21	1,342029E+21	9,823621E+20	3,674587E+20	7,997354E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,001090E+18
920	3,675459E+20	9,824023E+20	1,342002E+21	1,341988E+21	9,823851E+20	3,675265E+20	7,998043E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995092E+18
921	3,674728E+20	9,823672E+20	1,342051E+21	1,342090E+21	9,824567E+20	3,675439E+20	8,000896E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,001225E+18
922	3,675343E+20	9,824541E+20	1,342099E+21	1,342087E+21	9,824148E+20	3,674852E+20	7,996086E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,997271E+18
923	3,675546E+20	9,824545E+20	1,342077E+21	1,342088E+21	9,824813E+20	3,675780E+20	7,998532E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995442E+18
924	3,674929E+20	9,824592E+20	1,342171E+21	1,342185E+21	9,825110E+20	3,675430E+20	8,000248E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,001214E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
925	3,675795E+20	9,825259E+20	1,342176E+21	1,342139E+21	9,824560E+20	3,675196E+20	7,994988E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,994744E+18
926	3,675425E+20	9,824702E+20	1,342141E+21	1,342174E+21	9,825280E+20	3,675894E+20	7,999809E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998372E+18
927	3,675178E+20	9,824963E+20	1,342193E+21	1,342199E+21	9,825024E+20	3,675114E+20	7,997479E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000308E+18
928	3,675916E+20	9,825150E+20	1,342139E+21	1,342101E+21	9,824541E+20	3,675375E+20	7,994839E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995652E+18
929	3,675122E+20	9,824327E+20	1,342110E+21	1,342132E+21	9,824883E+20	3,675662E+20	8,001833E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,999889E+18
930	3,675205E+20	9,824554E+20	1,342109E+21	1,342089E+21	9,824042E+20	3,674771E+20	7,996347E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998355E+18
931	3,675403E+20	9,824045E+20	1,342001E+21	1,341990E+21	9,823918E+20	3,675394E+20	7,999386E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996384E+18
932	3,674441E+20	9,823099E+20	1,341974E+21	1,342006E+21	9,823902E+20	3,675106E+20	8,002338E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,001607E+18
933	3,675065E+20	9,823413E+20	1,341925E+21	1,341892E+21	9,822691E+20	3,674403E+20	7,995900E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998963E+18
934	3,674879E+20	9,822714E+20	1,341833E+21	1,341848E+21	9,822958E+20	3,675085E+20	8,001566E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998389E+18
935	3,674313E+20	9,822665E+20	1,341883E+21	1,341886E+21	9,822792E+20	3,674424E+20	7,999429E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003063E+18
936	3,675101E+20	9,823080E+20	1,341864E+21	1,341816E+21	9,822236E+20	3,674473E+20	7,997778E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,997166E+18
937	3,674472E+20	9,822361E+20	1,341844E+21	1,341882E+21	9,823104E+20	3,675085E+20	8,002655E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,999356E+18
938	3,674430E+20	9,822849E+20	1,341904E+21	1,341907E+21	9,822841E+20	3,674355E+20	7,998571E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,001465E+18
939	3,675117E+20	9,823091E+20	1,341876E+21	1,341864E+21	9,823004E+20	3,674996E+20	7,998779E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995679E+18
940	3,674423E+20	9,822756E+20	1,341921E+21	1,341966E+21	9,823732E+20	3,675168E+20	8,001740E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,002006E+18
941	3,675089E+20	9,823791E+20	1,341981E+21	1,341956E+21	9,823158E+20	3,674511E+20	7,996711E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998205E+18
942	3,675279E+20	9,823767E+20	1,341972E+21	1,341974E+21	9,823838E+20	3,675382E+20	7,998655E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996530E+18
943	3,674642E+20	9,823726E+20	1,342053E+21	1,342071E+21	9,824245E+20	3,675081E+20	8,000586E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,002422E+18
944	3,675507E+20	9,824365E+20	1,342060E+21	1,342025E+21	9,823693E+20	3,674867E+20	7,995539E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995996E+18
945	3,675173E+20	9,823828E+20	1,342014E+21	1,342050E+21	9,824391E+20	3,675556E+20	8,000169E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998828E+18
946	3,674830E+20	9,824027E+20	1,342057E+21	1,342056E+21	9,824017E+20	3,674814E+20	7,998753E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000505E+18
947	3,675515E+20	9,824195E+20	1,342012E+21	1,341966E+21	9,823521E+20	3,675065E+20	7,996400E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,995874E+18
948	3,674649E+20	9,823161E+20	1,341964E+21	1,341999E+21	9,823923E+20	3,675353E+20	8,003443E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000284E+18
949	3,674755E+20	9,823363E+20	1,341948E+21	1,341933E+21	9,822922E+20	3,674372E+20	7,997307E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,999602E+18
950	3,675003E+20	9,822851E+20	1,341840E+21	1,341833E+21	9,822728E+20	3,674919E+20	7,999543E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,997781E+18
951	3,674115E+20	9,822009E+20	1,341814E+21	1,341846E+21	9,822746E+20	3,674663E+20	8,002378E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,002971E+18
952	3,674755E+20	9,822475E+20	1,341794E+21	1,341752E+21	9,821604E+20	3,674009E+20	7,996691E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000016E+18
953	3,674583E+20	9,821853E+20	1,341713E+21	1,341723E+21	9,821992E+20	3,674731E+20	8,002236E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998381E+18
954	3,673895E+20	9,821684E+20	1,341757E+21	1,341761E+21	9,821873E+20	3,674150E+20	8,000997E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003356E+18
955	3,674687E+20	9,822070E+20	1,341739E+21	1,341701E+21	9,821421E+20	3,674201E+20	7,999126E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,997681E+18
956	3,674091E+20	9,821282E+20	1,341701E+21	1,341758E+21	9,822301E+20	3,674816E+20	8,003486E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000370E+18
957	3,674153E+20	9,821952E+20	1,341765E+21	1,341764E+21	9,821839E+20	3,673998E+20	7,998960E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,002743E+18
958	3,674880E+20	9,822315E+20	1,341759E+21	1,341736E+21	9,821974E+20	3,674583E+20	7,998543E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996777E+18
959	3,674186E+20	9,822012E+20	1,341810E+21	1,341848E+21	9,822808E+20	3,674827E+20	8,002103E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,002871E+18
960	3,674787E+20	9,823018E+20	1,341888E+21	1,341860E+21	9,822345E+20	3,674214E+20	7,997604E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998939E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
961	3,674987E+20	9,822934E+20	1,341862E+21	1,341872E+21	9,823087E+20	3,675081E+20	7,999109E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996748E+18
962	3,674268E+20	9,822764E+20	1,341922E+21	1,341946E+21	9,823399E+20	3,674828E+20	8,001776E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,002785E+18
963	3,675167E+20	9,823461E+20	1,341934E+21	1,341902E+21	9,822810E+20	3,674574E+20	7,996534E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996489E+18
964	3,674812E+20	9,822854E+20	1,341877E+21	1,341918E+21	9,823481E+20	3,675272E+20	8,001506E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,999276E+18
965	3,674466E+20	9,823073E+20	1,341920E+21	1,341911E+21	9,822932E+20	3,674459E+20	7,999886E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,001278E+18
966	3,675114E+20	9,823147E+20	1,341877E+21	1,341832E+21	9,822410E+20	3,674628E+20	7,997005E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,997095E+18
967	3,674265E+20	9,822015E+20	1,341807E+21	1,341852E+21	9,822868E+20	3,674948E+20	8,003956E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,001640E+18
968	3,674383E+20	9,822239E+20	1,341798E+21	1,341785E+21	9,821826E+20	3,673966E+20	7,997889E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,001231E+18
969	3,674712E+20	9,821841E+20	1,341689E+21	1,341680E+21	9,821608E+20	3,674480E+20	7,999778E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998288E+18
970	3,673741E+20	9,821017E+20	1,341667E+21	1,341691E+21	9,821612E+20	3,674308E+20	8,003523E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003332E+18
971	3,674356E+20	9,821519E+20	1,341666E+21	1,341621E+21	9,820607E+20	3,673687E+20	7,998319E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000244E+18
972	3,674137E+20	9,820774E+20	1,341578E+21	1,341602E+21	9,821132E+20	3,674444E+20	8,003681E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998891E+18
973	3,673504E+20	9,820628E+20	1,341615E+21	1,341624E+21	9,820907E+20	3,673815E+20	8,001859E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004642E+18
974	3,674357E+20	9,821066E+20	1,341603E+21	1,341571E+21	9,820431E+20	3,673794E+20	7,999045E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,999116E+18
975	3,673852E+20	9,820413E+20	1,341567E+21	1,341625E+21	9,821361E+20	3,674446E+20	8,003287E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,001624E+18
976	3,673903E+20	9,821201E+20	1,341659E+21	1,341648E+21	9,820944E+20	3,673680E+20	7,999586E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003576E+18
977	3,674630E+20	9,821614E+20	1,341661E+21	1,341633E+21	9,821153E+20	3,674272E+20	7,999062E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996581E+18
978	3,673817E+20	9,821175E+20	1,341703E+21	1,341740E+21	9,821997E+20	3,674591E+20	8,003686E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,002985E+18
979	3,674409E+20	9,822098E+20	1,341770E+21	1,341754E+21	9,821618E+20	3,673985E+20	7,999092E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,999302E+18
980	3,674629E+20	9,821957E+20	1,341729E+21	1,341752E+21	9,822301E+20	3,674818E+20	8,000114E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,997703E+18
981	3,673987E+20	9,821882E+20	1,341786E+21	1,341802E+21	9,822363E+20	3,674469E+20	8,002429E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003791E+18
982	3,674864E+20	9,822599E+20	1,341810E+21	1,341770E+21	9,821738E+20	3,674145E+20	7,996645E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,997643E+18
983	3,674485E+20	9,821930E+20	1,341746E+21	1,341785E+21	9,822463E+20	3,674890E+20	8,002142E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000157E+18
984	3,674058E+20	9,822023E+20	1,341793E+21	1,341787E+21	9,821960E+20	3,674094E+20	8,000797E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,002353E+18
985	3,674734E+20	9,822041E+20	1,341730E+21	1,341695E+21	9,821430E+20	3,674232E+20	7,997447E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,997774E+18
986	3,673852E+20	9,820858E+20	1,341644E+21	1,341690E+21	9,821755E+20	3,674590E+20	8,004981E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,002424E+18
987	3,674019E+20	9,821186E+20	1,341644E+21	1,341632E+21	9,820753E+20	3,673604E+20	7,998950E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,002007E+18
988	3,674337E+20	9,820826E+20	1,341542E+21	1,341531E+21	9,820558E+20	3,674129E+20	8,001050E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998925E+18
989	3,673381E+20	9,820054E+20	1,341531E+21	1,341543E+21	9,820465E+20	3,673916E+20	8,004558E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004195E+18
990	3,673964E+20	9,820504E+20	1,341538E+21	1,341496E+21	9,819574E+20	3,673263E+20	7,998932E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,001528E+18
991	3,673786E+20	9,819720E+20	1,341435E+21	1,341469E+21	9,820208E+20	3,674080E+20	8,004034E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000228E+18
992	3,673184E+20	9,819652E+20	1,341487E+21	1,341496E+21	9,819977E+20	3,673474E+20	8,002359E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,006084E+18
993	3,674110E+20	9,820233E+20	1,341478E+21	1,341443E+21	9,819504E+20	3,673432E+20	7,999242E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,999252E+18
994	3,673517E+20	9,819584E+20	1,341446E+21	1,341494E+21	9,820434E+20	3,674179E+20	8,004465E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,001687E+18
995	3,673542E+20	9,820359E+20	1,341550E+21	1,341542E+21	9,820171E+20	3,673443E+20	8,001274E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003455E+18
996	3,674223E+20	9,820661E+20	1,341544E+21	1,341529E+21	9,820438E+20	3,674035E+20	8,000450E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,996971E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
997	3,673476E+20	9,820238E+20	1,341576E+21	1,341615E+21	9,821111E+20	3,674281E+20	8,004497E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004063E+18
998	3,674118E+20	9,821208E+20	1,341648E+21	1,341633E+21	9,820685E+20	3,673599E+20	7,999061E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000697E+18
999	3,674398E+20	9,821139E+20	1,341603E+21	1,341623E+21	9,821373E+20	3,674446E+20	8,000050E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998997E+18
1000	3,673721E+20	9,821104E+20	1,341678E+21	1,341682E+21	9,821426E+20	3,674124E+20	8,002995E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004768E+18
1001	3,674560E+20	9,821760E+20	1,341697E+21	1,341652E+21	9,820821E+20	3,673776E+20	7,997075E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,997922E+18
1002	3,674063E+20	9,820890E+20	1,341611E+21	1,341652E+21	9,821515E+20	3,674586E+20	8,003606E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000703E+18
1003	3,673643E+20	9,820871E+20	1,341640E+21	1,341650E+21	9,821053E+20	3,673791E+20	8,002156E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003105E+18
1004	3,674330E+20	9,820886E+20	1,341567E+21	1,341541E+21	9,820398E+20	3,673881E+20	7,998613E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998896E+18
1005	3,673526E+20	9,819835E+20	1,341487E+21	1,341519E+21	9,820482E+20	3,674145E+20	8,005717E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003407E+18
1006	3,673668E+20	9,820218E+20	1,341507E+21	1,341482E+21	9,819537E+20	3,673141E+20	7,999430E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003170E+18
1007	3,673969E+20	9,819833E+20	1,341408E+21	1,341393E+21	9,819488E+20	3,673717E+20	8,001826E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,999843E+18
1008	3,672975E+20	9,819009E+20	1,341404E+21	1,341417E+21	9,819507E+20	3,673554E+20	8,005430E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,005286E+18
1009	3,673591E+20	9,819438E+20	1,341398E+21	1,341368E+21	9,818690E+20	3,672902E+20	7,999434E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,002036E+18
1010	3,673391E+20	9,818655E+20	1,341290E+21	1,341327E+21	9,819254E+20	3,673778E+20	8,004986E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000756E+18
1011	3,672839E+20	9,818655E+20	1,341348E+21	1,341365E+21	9,819112E+20	3,673201E+20	8,003637E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,006301E+18
1012	3,673737E+20	9,819308E+20	1,341352E+21	1,341317E+21	9,818648E+20	3,673170E+20	8,000557E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,999573E+18
1013	3,673194E+20	9,818734E+20	1,341329E+21	1,341364E+21	9,819428E+20	3,673841E+20	8,005417E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,002428E+18
1014	3,673216E+20	9,819480E+20	1,341438E+21	1,341431E+21	9,819283E+20	3,673085E+20	8,001756E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004744E+18
1015	3,673960E+20	9,819786E+20	1,341421E+21	1,341410E+21	9,819604E+20	3,673685E+20	8,000480E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998531E+18
1016	3,673252E+20	9,819460E+20	1,341465E+21	1,341497E+21	9,820227E+20	3,673925E+20	8,004550E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,005564E+18
1017	3,673919E+20	9,820493E+20	1,341539E+21	1,341517E+21	9,819820E+20	3,673229E+20	7,998982E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000959E+18
1018	3,674067E+20	9,820330E+20	1,341491E+21	1,341499E+21	9,820468E+20	3,674162E+20	8,001152E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,999250E+18
1019	3,673338E+20	9,820135E+20	1,341558E+21	1,341571E+21	9,820642E+20	3,673879E+20	8,004709E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004635E+18
1020	3,674088E+20	9,820642E+20	1,341559E+21	1,341527E+21	9,820002E+20	3,673513E+20	7,998565E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,998647E+18
1021	3,673668E+20	9,819755E+20	1,341456E+21	1,341494E+21	9,820408E+20	3,674207E+20	8,004562E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,001818E+18
1022	3,673298E+20	9,819794E+20	1,341488E+21	1,341494E+21	9,819889E+20	3,673344E+20	8,002303E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004618E+18
1023	3,674030E+20	9,819888E+20	1,341416E+21	1,341382E+21	9,819247E+20	3,673434E+20	7,999009E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000144E+18
1024	3,673200E+20	9,818930E+20	1,341363E+21	1,341378E+21	9,819361E+20	3,673723E+20	8,006350E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004329E+18
1025	3,673313E+20	9,819267E+20	1,341383E+21	1,341354E+21	9,818528E+20	3,672740E+20	8,000174E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003467E+18
1026	3,673502E+20	9,818702E+20	1,341268E+21	1,341257E+21	9,818538E+20	3,673409E+20	8,003376E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000469E+18
1027	3,672561E+20	9,817820E+20	1,341250E+21	1,341285E+21	9,818664E+20	3,673278E+20	8,006785E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,005906E+18
1028	3,673187E+20	9,818317E+20	1,341243E+21	1,341221E+21	9,817751E+20	3,672601E+20	8,000596E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,002978E+18
1029	3,673071E+20	9,817682E+20	1,341145E+21	1,341168E+21	9,818101E+20	3,673389E+20	8,005609E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,001511E+18
1030	3,672524E+20	9,817769E+20	1,341225E+21	1,341232E+21	9,818046E+20	3,672809E+20	8,004087E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007224E+18
1031	3,673416E+20	9,818418E+20	1,341233E+21	1,341197E+21	9,817727E+20	3,672806E+20	8,001094E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000482E+18
1032	3,672894E+20	9,817905E+20	1,341226E+21	1,341257E+21	9,818583E+20	3,673495E+20	8,005654E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003779E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
1033	3,672976E+20	9,818678E+20	1,341327E+21	1,341322E+21	9,818501E+20	3,672755E+20	8,001839E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,005325E+18
1034	3,673677E+20	9,818975E+20	1,341308E+21	1,341292E+21	9,818791E+20	3,673410E+20	8,001036E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,999223E+18
1035	3,672992E+20	9,818655E+20	1,341351E+21	1,341389E+21	9,819508E+20	3,673694E+20	8,005698E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,005498E+18
1036	3,673547E+20	9,819636E+20	1,341427E+21	1,341404E+21	9,819053E+20	3,673003E+20	8,000382E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,001100E+18
1037	3,673684E+20	9,819377E+20	1,341370E+21	1,341370E+21	9,819473E+20	3,673836E+20	8,002407E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,999841E+18
1038	3,672949E+20	9,819054E+20	1,341421E+21	1,341441E+21	9,819673E+20	3,673522E+20	8,005464E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,005791E+18
1039	3,673737E+20	9,819540E+20	1,341405E+21	1,341379E+21	9,818975E+20	3,673122E+20	7,999000E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000337E+18
1040	3,673390E+20	9,818809E+20	1,341316E+21	1,341340E+21	9,819236E+20	3,673752E+20	8,004761E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003286E+18
1041	3,673030E+20	9,818903E+20	1,341353E+21	1,341346E+21	9,818765E+20	3,672902E+20	8,002476E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,005013E+18
1042	3,673628E+20	9,818908E+20	1,341286E+21	1,341241E+21	9,818160E+20	3,673066E+20	8,000323E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000589E+18
1043	3,672763E+20	9,817801E+20	1,341223E+21	1,341252E+21	9,818469E+20	3,673419E+20	8,008002E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004280E+18
1044	3,672801E+20	9,818036E+20	1,341232E+21	1,341219E+21	9,817663E+20	3,672463E+20	8,001706E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004381E+18
1045	3,673078E+20	9,817488E+20	1,341106E+21	1,341096E+21	9,817409E+20	3,673032E+20	8,004343E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,001609E+18
1046	3,672225E+20	9,816718E+20	1,341095E+21	1,341130E+21	9,817538E+20	3,672863E+20	8,006928E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007238E+18
1047	3,672882E+20	9,817348E+20	1,341098E+21	1,341069E+21	9,816668E+20	3,672198E+20	8,000967E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004190E+18
1048	3,672794E+20	9,816889E+20	1,341033E+21	1,341036E+21	9,817026E+20	3,672979E+20	8,005830E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,002479E+18
1049	3,672250E+20	9,816982E+20	1,341119E+21	1,341121E+21	9,817153E+20	3,672448E+20	8,004513E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007532E+18
1050	3,673060E+20	9,817521E+20	1,341121E+21	1,341089E+21	9,816948E+20	3,672537E+20	8,002165E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,001168E+18
1051	3,672606E+20	9,817002E+20	1,341106E+21	1,341155E+21	9,817914E+20	3,673269E+20	8,006701E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004187E+18
1052	3,672662E+20	9,817838E+20	1,341209E+21	1,341208E+21	9,817766E+20	3,672538E+20	8,002996E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,005783E+18
1053	3,673374E+20	9,818161E+20	1,341192E+21	1,341164E+21	9,817825E+20	3,673100E+20	8,001820E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	7,999665E+18
1054	3,672670E+20	9,817801E+20	1,341239E+21	1,341272E+21	9,818584E+20	3,673372E+20	8,006420E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,005979E+18
1055	3,673161E+20	9,818640E+20	1,341300E+21	1,341284E+21	9,818170E+20	3,672677E+20	8,001193E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,001986E+18
1056	3,673330E+20	9,818406E+20	1,341244E+21	1,341243E+21	9,818506E+20	3,673457E+20	8,002763E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,001293E+18
1057	3,672670E+20	9,818097E+20	1,341283E+21	1,341304E+21	9,818671E+20	3,673126E+20	8,005608E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,006501E+18
1058	3,673402E+20	9,818554E+20	1,341263E+21	1,341233E+21	9,817926E+20	3,672761E+20	7,999748E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,001316E+18
1059	3,673084E+20	9,817853E+20	1,341179E+21	1,341207E+21	9,818284E+20	3,673419E+20	8,005885E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003418E+18
1060	3,672617E+20	9,817918E+20	1,341221E+21	1,341212E+21	9,817792E+20	3,672603E+20	8,003935E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,005443E+18
1061	3,673182E+20	9,817792E+20	1,341145E+21	1,341097E+21	9,817043E+20	3,672686E+20	8,001709E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,001438E+18
1062	3,672345E+20	9,816613E+20	1,341069E+21	1,341108E+21	9,817422E+20	3,673036E+20	8,008680E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,005507E+18
1063	3,672410E+20	9,816839E+20	1,341066E+21	1,341060E+21	9,816575E+20	3,672066E+20	8,002265E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,006159E+18
1064	3,672780E+20	9,816509E+20	1,340961E+21	1,340939E+21	9,816206E+20	3,672573E+20	8,004491E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003012E+18
1065	3,671967E+20	9,815847E+20	1,340961E+21	1,340985E+21	9,816425E+20	3,672440E+20	8,007081E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007532E+18
1066	3,672499E+20	9,816428E+20	1,340976E+21	1,340941E+21	9,815679E+20	3,671872E+20	8,002218E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004560E+18
1067	3,672427E+20	9,815921E+20	1,340913E+21	1,340933E+21	9,816270E+20	3,672710E+20	8,007140E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,002410E+18
1068	3,671843E+20	9,816013E+20	1,340996E+21	1,341011E+21	9,816440E+20	3,672239E+20	8,005914E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,008154E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
1069	3,672716E+20	9,816567E+20	1,340993E+21	1,340963E+21	9,816038E+20	3,672235E+20	8,003021E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,001956E+18
1070	3,672337E+20	9,816150E+20	1,340983E+21	1,341034E+21	9,817029E+20	3,672950E+20	8,006952E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004993E+18
1071	3,672370E+20	9,817013E+20	1,341090E+21	1,341086E+21	9,816894E+20	3,672233E+20	8,003598E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,006606E+18
1072	3,673088E+20	9,817426E+20	1,341091E+21	1,341049E+21	9,816853E+20	3,672733E+20	8,002098E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000667E+18
1073	3,672388E+20	9,816957E+20	1,341123E+21	1,341160E+21	9,817710E+20	3,673024E+20	8,006874E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,006412E+18
1074	3,672788E+20	9,817640E+20	1,341169E+21	1,341162E+21	9,817307E+20	3,672375E+20	8,002021E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003174E+18
1075	3,673045E+20	9,817409E+20	1,341103E+21	1,341116E+21	9,817625E+20	3,673137E+20	8,003606E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,002019E+18
1076	3,672348E+20	9,817188E+20	1,341147E+21	1,341164E+21	9,817693E+20	3,672821E+20	8,006646E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007066E+18
1077	3,673045E+20	9,817615E+20	1,341129E+21	1,341084E+21	9,816766E+20	3,672372E+20	8,000819E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,001874E+18
1078	3,672693E+20	9,816851E+20	1,341047E+21	1,341071E+21	9,817204E+20	3,673034E+20	8,006817E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003913E+18
1079	3,672159E+20	9,816760E+20	1,341074E+21	1,341073E+21	9,816785E+20	3,672244E+20	8,004964E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,006619E+18
1080	3,672776E+20	9,816678E+20	1,340997E+21	1,340951E+21	9,815941E+20	3,672260E+20	8,002209E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003131E+18
1081	3,672036E+20	9,815538E+20	1,340912E+21	1,340956E+21	9,816331E+20	3,672613E+20	8,008813E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,006286E+18
1082	3,672038E+20	9,815771E+20	1,340914E+21	1,340908E+21	9,815492E+20	3,671697E+20	8,003071E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007177E+18
1083	3,672449E+20	9,815514E+20	1,340822E+21	1,340806E+21	9,815232E+20	3,672238E+20	8,005704E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,002940E+18
1084	3,671564E+20	9,814911E+20	1,340836E+21	1,340858E+21	9,815484E+20	3,672163E+20	8,008575E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007723E+18
1085	3,672070E+20	9,815397E+20	1,340846E+21	1,340814E+21	9,814703E+20	3,671549E+20	8,003712E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,005193E+18
1086	3,672078E+20	9,814939E+20	1,340782E+21	1,340810E+21	9,815395E+20	3,672386E+20	8,007651E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003545E+18
1087	3,671546E+20	9,815078E+20	1,340861E+21	1,340880E+21	9,815543E+20	3,671926E+20	8,006496E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009665E+18
1088	3,672492E+20	9,815838E+20	1,340880E+21	1,340840E+21	9,815058E+20	3,671844E+20	8,002966E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003195E+18
1089	3,672131E+20	9,815473E+20	1,340878E+21	1,340920E+21	9,816122E+20	3,672588E+20	8,006987E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,005166E+18
1090	3,672006E+20	9,816158E+20	1,340982E+21	1,340979E+21	9,816069E+20	3,671950E+20	8,004618E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,006973E+18
1091	3,672727E+20	9,816464E+20	1,340973E+21	1,340952E+21	9,816155E+20	3,672475E+20	8,003154E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,000903E+18
1092	3,672018E+20	9,816009E+20	1,340995E+21	1,341040E+21	9,816919E+20	3,672791E+20	8,008127E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007071E+18
1093	3,672440E+20	9,816648E+20	1,341029E+21	1,341021E+21	9,816292E+20	3,672045E+20	8,002943E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004099E+18
1094	3,672760E+20	9,816523E+20	1,340969E+21	1,340977E+21	9,816597E+20	3,672760E+20	8,004043E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,002846E+18
1095	3,672006E+20	9,816269E+20	1,341014E+21	1,341023E+21	9,816644E+20	3,672458E+20	8,007508E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007891E+18
1096	3,672687E+20	9,816723E+20	1,341009E+21	1,340954E+21	9,815660E+20	3,671939E+20	8,001398E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003068E+18
1097	3,672331E+20	9,815828E+20	1,340910E+21	1,340940E+21	9,816197E+20	3,672631E+20	8,007495E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004513E+18
1098	3,671717E+20	9,815565E+20	1,340919E+21	1,340930E+21	9,815797E+20	3,671906E+20	8,005988E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,008004E+18
1099	3,672418E+20	9,815516E+20	1,340836E+21	1,340807E+21	9,814943E+20	3,671908E+20	8,003329E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003938E+18
1100	3,671673E+20	9,814519E+20	1,340759E+21	1,340799E+21	9,815254E+20	3,672278E+20	8,009942E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,006740E+18
1101	3,671622E+20	9,814708E+20	1,340767E+21	1,340752E+21	9,814302E+20	3,671310E+20	8,004383E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007692E+18
1102	3,672043E+20	9,814481E+20	1,340685E+21	1,340668E+21	9,814168E+20	3,671850E+20	8,006608E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003364E+18
1103	3,671138E+20	9,813831E+20	1,340698E+21	1,340726E+21	9,814530E+20	3,671819E+20	8,009458E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,008984E+18
1104	3,671749E+20	9,814475E+20	1,340719E+21	1,340685E+21	9,813713E+20	3,671151E+20	8,004013E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,006806E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
1105	3,671854E+20	9,814115E+20	1,340657E+21	1,340685E+21	9,814477E+20	3,672007E+20	8,007475E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004360E+18
1106	3,671270E+20	9,814272E+20	1,340745E+21	1,340762E+21	9,814703E+20	3,671630E+20	8,007017E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010585E+18
1107	3,672224E+20	9,815048E+20	1,340774E+21	1,340739E+21	9,814309E+20	3,671577E+20	8,003864E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003131E+18
1108	3,671785E+20	9,814690E+20	1,340774E+21	1,340815E+21	9,815369E+20	3,672364E+20	8,008257E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,005212E+18
1109	3,671593E+20	9,815159E+20	1,340859E+21	1,340864E+21	9,815230E+20	3,671678E+20	8,006019E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007479E+18
1110	3,672383E+20	9,815492E+20	1,340841E+21	1,340826E+21	9,815290E+20	3,672163E+20	8,003776E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,001937E+18
1111	3,671716E+20	9,815078E+20	1,340858E+21	1,340900E+21	9,815934E+20	3,672454E+20	8,008869E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,008420E+18
1112	3,672196E+20	9,815889E+20	1,340908E+21	1,340883E+21	9,815191E+20	3,671621E+20	8,003133E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,005368E+18
1113	3,672500E+20	9,815747E+20	1,340852E+21	1,340849E+21	9,815567E+20	3,672344E+20	8,004398E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003232E+18
1114	3,671598E+20	9,815272E+20	1,340889E+21	1,340901E+21	9,815711E+20	3,672120E+20	8,008549E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,008582E+18
1115	3,672265E+20	9,815575E+20	1,340868E+21	1,340838E+21	9,814828E+20	3,671620E+20	8,002588E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003756E+18
1116	3,671907E+20	9,814700E+20	1,340758E+21	1,340796E+21	9,815248E+20	3,672332E+20	8,008799E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,005244E+18
1117	3,671292E+20	9,814342E+20	1,340752E+21	1,340767E+21	9,814656E+20	3,671535E+20	8,007114E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,008954E+18
1118	3,672053E+20	9,814453E+20	1,340678E+21	1,340644E+21	9,813797E+20	3,671504E+20	8,004103E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004765E+18
1119	3,671293E+20	9,813494E+20	1,340612E+21	1,340639E+21	9,814069E+20	3,671880E+20	8,010926E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007638E+18
1120	3,671263E+20	9,813765E+20	1,340636E+21	1,340611E+21	9,813145E+20	3,670861E+20	8,004998E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009010E+18
1121	3,671721E+20	9,813528E+20	1,340555E+21	1,340540E+21	9,813184E+20	3,671426E+20	8,006897E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004269E+18
1122	3,670796E+20	9,812824E+20	1,340563E+21	1,340598E+21	9,813626E+20	3,671485E+20	8,009979E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010467E+18
1123	3,671483E+20	9,813554E+20	1,340592E+21	1,340570E+21	9,812909E+20	3,670850E+20	8,004829E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007357E+18
1124	3,671564E+20	9,813357E+20	1,340546E+21	1,340566E+21	9,813645E+20	3,671749E+20	8,008388E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004373E+18
1125	3,670883E+20	9,813359E+20	1,340630E+21	1,340642E+21	9,813809E+20	3,671361E+20	8,008475E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010500E+18
1126	3,671819E+20	9,814115E+20	1,340657E+21	1,340627E+21	9,813512E+20	3,671298E+20	8,004856E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003296E+18
1127	3,671383E+20	9,813681E+20	1,340645E+21	1,340692E+21	9,814536E+20	3,672082E+20	8,009204E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,006391E+18
1128	3,671308E+20	9,814270E+20	1,340731E+21	1,340734E+21	9,814274E+20	3,671305E+20	8,006270E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009057E+18
1129	3,672178E+20	9,814697E+20	1,340718E+21	1,340698E+21	9,814331E+20	3,671756E+20	8,003648E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,002955E+18
1130	3,671454E+20	9,814272E+20	1,340740E+21	1,340774E+21	9,814998E+20	3,672104E+20	8,009325E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009393E+18
1131	3,671901E+20	9,815039E+20	1,340797E+21	1,340773E+21	9,814338E+20	3,671307E+20	8,004108E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,005621E+18
1132	3,672115E+20	9,814843E+20	1,340736E+21	1,340731E+21	9,814699E+20	3,672053E+20	8,005754E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003534E+18
1133	3,671136E+20	9,814081E+20	1,340741E+21	1,340765E+21	9,814757E+20	3,671804E+20	8,009976E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009354E+18
1134	3,671858E+20	9,814403E+20	1,340706E+21	1,340681E+21	9,813811E+20	3,671264E+20	8,003448E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,005081E+18
1135	3,671536E+20	9,813574E+20	1,340594E+21	1,340626E+21	9,814071E+20	3,671937E+20	8,009717E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,006634E+18
1136	3,670990E+20	9,813379E+20	1,340604E+21	1,340602E+21	9,813372E+20	3,671048E+20	8,007412E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010215E+18
1137	3,671718E+20	9,813491E+20	1,340542E+21	1,340495E+21	9,812608E+20	3,671027E+20	8,004620E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,005275E+18
1138	3,670872E+20	9,812428E+20	1,340477E+21	1,340506E+21	9,813042E+20	3,671485E+20	8,011625E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,008540E+18
1139	3,670875E+20	9,812670E+20	1,340501E+21	1,340491E+21	9,812292E+20	3,670543E+20	8,006099E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009751E+18
1140	3,671361E+20	9,812555E+20	1,340424E+21	1,340412E+21	9,812323E+20	3,671142E+20	8,007902E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004785E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
1141	3,670432E+20	9,811799E+20	1,340425E+21	1,340465E+21	9,812700E+20	3,671189E+20	8,011049E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010970E+18
1142	3,671147E+20	9,812662E+20	1,340464E+21	1,340440E+21	9,812048E+20	3,670561E+20	8,005751E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007615E+18
1143	3,671192E+20	9,812459E+20	1,340428E+21	1,340440E+21	9,812731E+20	3,671460E+20	8,009390E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004994E+18
1144	3,670561E+20	9,812483E+20	1,340515E+21	1,340525E+21	9,812877E+20	3,671000E+20	8,009057E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,011521E+18
1145	3,671524E+20	9,813222E+20	1,340538E+21	1,340511E+21	9,812661E+20	3,670936E+20	8,005012E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004400E+18
1146	3,671125E+20	9,812803E+20	1,340521E+21	1,340568E+21	9,813657E+20	3,671744E+20	8,009344E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,008126E+18
1147	3,671117E+20	9,813477E+20	1,340616E+21	1,340619E+21	9,813436E+20	3,670996E+20	8,006847E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009822E+18
1148	3,671937E+20	9,814020E+20	1,340616E+21	1,340581E+21	9,813455E+20	3,671452E+20	8,004394E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003142E+18
1149	3,671073E+20	9,813345E+20	1,340624E+21	1,340654E+21	9,814077E+20	3,671802E+20	8,010691E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009341E+18
1150	3,671467E+20	9,814015E+20	1,340669E+21	1,340651E+21	9,813506E+20	3,671010E+20	8,005231E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,006024E+18
1151	3,671660E+20	9,813692E+20	1,340591E+21	1,340589E+21	9,813730E+20	3,671734E+20	8,006995E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004844E+18
1152	3,670799E+20	9,812975E+20	1,340584E+21	1,340608E+21	9,813627E+20	3,671383E+20	8,010390E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010833E+18
1153	3,671554E+20	9,813383E+20	1,340555E+21	1,340524E+21	9,812657E+20	3,670803E+20	8,003584E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,006366E+18
1154	3,671209E+20	9,812570E+20	1,340448E+21	1,340468E+21	9,812895E+20	3,671502E+20	8,010204E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007649E+18
1155	3,670638E+20	9,812361E+20	1,340472E+21	1,340468E+21	9,812321E+20	3,670673E+20	8,008427E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010580E+18
1156	3,671300E+20	9,812483E+20	1,340415E+21	1,340366E+21	9,811629E+20	3,670679E+20	8,005991E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,005475E+18
1157	3,670401E+20	9,811220E+20	1,340328E+21	1,340369E+21	9,812074E+20	3,671158E+20	8,012930E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009174E+18
1158	3,670488E+20	9,811579E+20	1,340349E+21	1,340345E+21	9,811370E+20	3,670238E+20	8,007161E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010773E+18
1159	3,671005E+20	9,811547E+20	1,340283E+21	1,340264E+21	9,811301E+20	3,670812E+20	8,008844E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,005943E+18
1160	3,670166E+20	9,810938E+20	1,340297E+21	1,340326E+21	9,811633E+20	3,670791E+20	8,011350E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,011873E+18
1161	3,670830E+20	9,811799E+20	1,340348E+21	1,340319E+21	9,811091E+20	3,670171E+20	8,006070E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,008201E+18
1162	3,670839E+20	9,811513E+20	1,340311E+21	1,340325E+21	9,811860E+20	3,671113E+20	8,009608E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,006147E+18
1163	3,670273E+20	9,811546E+20	1,340396E+21	1,340418E+21	9,812114E+20	3,670719E+20	8,009731E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012395E+18
1164	3,671268E+20	9,812429E+20	1,340425E+21	1,340397E+21	9,811856E+20	3,670657E+20	8,005601E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,004964E+18
1165	3,670848E+20	9,811965E+20	1,340402E+21	1,340447E+21	9,812784E+20	3,671450E+20	8,010139E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,008631E+18
1166	3,670838E+20	9,812723E+20	1,340503E+21	1,340497E+21	9,812605E+20	3,670737E+20	8,007939E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009900E+18
1167	3,671556E+20	9,813149E+20	1,340506E+21	1,340463E+21	9,812549E+20	3,671165E+20	8,005632E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,003819E+18
1168	3,670730E+20	9,812394E+20	1,340500E+21	1,340532E+21	9,813116E+20	3,671427E+20	8,011380E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010180E+18
1169	3,671094E+20	9,812949E+20	1,340528E+21	1,340517E+21	9,812544E+20	3,670621E+20	8,005585E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007356E+18
1170	3,671322E+20	9,812603E+20	1,340440E+21	1,340439E+21	9,812658E+20	3,671336E+20	8,007346E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,006580E+18
1171	3,670525E+20	9,811965E+20	1,340440E+21	1,340462E+21	9,812554E+20	3,671010E+20	8,011125E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,011522E+18
1172	3,671207E+20	9,812459E+20	1,340423E+21	1,340379E+21	9,811560E+20	3,670431E+20	8,004672E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,006491E+18
1173	3,670745E+20	9,811436E+20	1,340306E+21	1,340326E+21	9,811796E+20	3,671126E+20	8,011616E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007637E+18
1174	3,670165E+20	9,811205E+20	1,340321E+21	1,340325E+21	9,811355E+20	3,670348E+20	8,009712E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,011107E+18
1175	3,670826E+20	9,811280E+20	1,340262E+21	1,340220E+21	9,810609E+20	3,670339E+20	8,007284E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,006891E+18
1176	3,670091E+20	9,810160E+20	1,340175E+21	1,340217E+21	9,810967E+20	3,670733E+20	8,013132E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010551E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
1177	3,670201E+20	9,810648E+20	1,340211E+21	1,340203E+21	9,810328E+20	3,669829E+20	8,007318E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012076E+18
1178	3,670712E+20	9,810659E+20	1,340158E+21	1,340130E+21	9,810281E+20	3,670434E+20	8,009089E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007035E+18
1179	3,669881E+20	9,810056E+20	1,340185E+21	1,340215E+21	9,810752E+20	3,670477E+20	8,012098E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012268E+18
1180	3,670484E+20	9,810932E+20	1,340238E+21	1,340213E+21	9,810293E+20	3,669883E+20	8,007003E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,008449E+18
1181	3,670471E+20	9,810508E+20	1,340180E+21	1,340206E+21	9,811025E+20	3,670833E+20	8,010507E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,006801E+18
1182	3,669994E+20	9,810706E+20	1,340268E+21	1,340290E+21	9,811304E+20	3,670477E+20	8,010769E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,013019E+18
1183	3,670976E+20	9,811648E+20	1,340311E+21	1,340273E+21	9,810943E+20	3,670371E+20	8,006663E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,005761E+18
1184	3,670601E+20	9,811227E+20	1,340293E+21	1,340327E+21	9,811805E+20	3,671086E+20	8,010653E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009084E+18
1185	3,670493E+20	9,811881E+20	1,340395E+21	1,340387E+21	9,811725E+20	3,670386E+20	8,008481E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010414E+18
1186	3,671166E+20	9,812135E+20	1,340381E+21	1,340346E+21	9,811663E+20	3,670814E+20	8,005967E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,005177E+18
1187	3,670402E+20	9,811330E+20	1,340363E+21	1,340408E+21	9,812241E+20	3,671114E+20	8,012106E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,011046E+18
1188	3,670759E+20	9,811957E+20	1,340390E+21	1,340380E+21	9,811571E+20	3,670282E+20	8,006261E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,008024E+18
1189	3,670946E+20	9,811523E+20	1,340289E+21	1,340289E+21	9,811564E+20	3,670970E+20	8,008399E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007073E+18
1190	3,670157E+20	9,810983E+20	1,340293E+21	1,340307E+21	9,811483E+20	3,670683E+20	8,012411E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,011683E+18
1191	3,670745E+20	9,811374E+20	1,340282E+21	1,340233E+21	9,810442E+20	3,670064E+20	8,006191E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007483E+18
1192	3,670367E+20	9,810333E+20	1,340156E+21	1,340179E+21	9,810665E+20	3,670672E+20	8,012168E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,008801E+18
1193	3,669800E+20	9,810102E+20	1,340168E+21	1,340177E+21	9,810278E+20	3,669921E+20	8,009944E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012952E+18
1194	3,670519E+20	9,810230E+20	1,340112E+21	1,340070E+21	9,809500E+20	3,669909E+20	8,007447E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,008821E+18
1195	3,669847E+20	9,809248E+20	1,340043E+21	1,340082E+21	9,809942E+20	3,670362E+20	8,013572E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,011209E+18
1196	3,669867E+20	9,809794E+20	1,340095E+21	1,340078E+21	9,809366E+20	3,669503E+20	8,008312E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012003E+18
1197	3,670262E+20	9,809610E+20	1,340030E+21	1,340011E+21	9,809370E+20	3,670132E+20	8,010376E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,006891E+18
1198	3,669473E+20	9,809055E+20	1,340049E+21	1,340089E+21	9,809955E+20	3,670244E+20	8,013489E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012461E+18
1199	3,670072E+20	9,809911E+20	1,340106E+21	1,340087E+21	9,809440E+20	3,669629E+20	8,008371E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009551E+18
1200	3,670239E+20	9,809675E+20	1,340054E+21	1,340079E+21	9,810066E+20	3,670457E+20	8,010616E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007888E+18
1201	3,669766E+20	9,809985E+20	1,340156E+21	1,340170E+21	9,810383E+20	3,670124E+20	8,011029E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,014015E+18
1202	3,670709E+20	9,810899E+20	1,340208E+21	1,340162E+21	9,810045E+20	3,670026E+20	8,006875E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,006747E+18
1203	3,670319E+20	9,810430E+20	1,340194E+21	1,340230E+21	9,810998E+20	3,670784E+20	8,011403E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009399E+18
1204	3,670124E+20	9,810969E+20	1,340282E+21	1,340282E+21	9,810954E+20	3,670105E+20	8,009383E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010676E+18
1205	3,670753E+20	9,811027E+20	1,340236E+21	1,340216E+21	9,810773E+20	3,670515E+20	8,006910E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,006137E+18
1206	3,670093E+20	9,810347E+20	1,340208E+21	1,340256E+21	9,811276E+20	3,670826E+20	8,013280E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,011707E+18
1207	3,670392E+20	9,810968E+20	1,340246E+21	1,340230E+21	9,810469E+20	3,669936E+20	8,007477E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009135E+18
1208	3,670631E+20	9,810570E+20	1,340149E+21	1,340138E+21	9,810348E+20	3,670500E+20	8,008972E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007761E+18
1209	3,669757E+20	9,809962E+20	1,340156E+21	1,340166E+21	9,810351E+20	3,670238E+20	8,012908E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012667E+18
1210	3,670329E+20	9,810241E+20	1,340135E+21	1,340093E+21	9,809369E+20	3,669633E+20	8,006586E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009221E+18
1211	3,670032E+20	9,809251E+20	1,340011E+21	1,340041E+21	9,809648E+20	3,670292E+20	8,012764E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009878E+18
1212	3,669472E+20	9,809118E+20	1,340030E+21	1,340038E+21	9,809275E+20	3,669570E+20	8,010661E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,013628E+18

1 Longitude ☉ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
1213	3,670128E+20	9,809169E+20	1,339965E+21	1,339927E+21	9,808481E+20	3,669582E+20	8,008749E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009110E+18
1214	3,669470E+20	9,808289E+20	1,339903E+21	1,339941E+21	9,809005E+20	3,670098E+20	8,015096E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010973E+18
1215	3,669382E+20	9,808723E+20	1,339965E+21	1,339951E+21	9,808414E+20	3,669210E+20	8,010055E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012631E+18
1216	3,669884E+20	9,808546E+20	1,339889E+21	1,339878E+21	9,808375E+20	3,669740E+20	8,010962E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007737E+18
1217	3,669156E+20	9,808111E+20	1,339914E+21	1,339956E+21	9,808988E+20	3,669877E+20	8,013703E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,014145E+18
1218	3,669841E+20	9,809084E+20	1,339980E+21	1,339957E+21	9,808472E+20	3,669253E+20	8,008454E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,011232E+18
1219	3,670063E+20	9,809012E+20	1,339954E+21	1,339968E+21	9,809183E+20	3,670118E+20	8,010841E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,008554E+18
1220	3,669498E+20	9,809311E+20	1,340065E+21	1,340072E+21	9,809581E+20	3,669831E+20	8,011799E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,013893E+18
1221	3,670290E+20	9,809939E+20	1,340095E+21	1,340062E+21	9,809284E+20	3,669749E+20	8,007886E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,006891E+18
1222	3,669937E+20	9,809457E+20	1,340060E+21	1,340110E+21	9,810268E+20	3,670562E+20	8,012672E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009695E+18
1223	3,669704E+20	9,809896E+20	1,340142E+21	1,340151E+21	9,810066E+20	3,669833E+20	8,010633E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,011876E+18
1224	3,670475E+20	9,810065E+20	1,340090E+21	1,340069E+21	9,809695E+20	3,670098E+20	8,007196E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007362E+18
1225	3,669818E+20	9,809491E+20	1,340072E+21	1,340107E+21	9,810148E+20	3,670412E+20	8,013697E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012885E+18
1226	3,670071E+20	9,810048E+20	1,340116E+21	1,340089E+21	9,809345E+20	3,669511E+20	8,007871E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010471E+18
1227	3,670295E+20	9,809623E+20	1,340027E+21	1,340013E+21	9,809315E+20	3,670086E+20	8,009709E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,008483E+18
1228	3,669364E+20	9,808920E+20	1,340021E+21	1,340038E+21	9,809391E+20	3,669872E+20	8,013718E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,013191E+18
1229	3,669884E+20	9,809041E+20	1,339978E+21	1,339950E+21	9,808377E+20	3,669292E+20	8,007776E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010242E+18
1230	3,669679E+20	9,808217E+20	1,339852E+21	1,339883E+21	9,808639E+20	3,669996E+20	8,014284E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010164E+18
1231	3,669030E+20	9,808034E+20	1,339885E+21	1,339890E+21	9,808211E+20	3,669261E+20	8,012375E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,014335E+18
1232	3,669732E+20	9,808107E+20	1,339820E+21	1,339781E+21	9,807359E+20	3,669159E+20	8,009673E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009566E+18
1233	3,669053E+20	9,807228E+20	1,339761E+21	1,339800E+21	9,807944E+20	3,669693E+20	8,015581E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012055E+18
1234	3,669002E+20	9,807627E+20	1,339820E+21	1,339814E+21	9,807425E+20	3,668817E+20	8,010302E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,014392E+18
1235	3,669629E+20	9,807651E+20	1,339765E+21	1,339752E+21	9,807436E+20	3,669361E+20	8,011047E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,008921E+18
1236	3,668940E+20	9,807383E+20	1,339805E+21	1,339840E+21	9,808111E+20	3,669542E+20	8,013962E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,014754E+18
1237	3,669546E+20	9,808296E+20	1,339870E+21	1,339846E+21	9,807665E+20	3,668981E+20	8,009436E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,011463E+18
1238	3,669770E+20	9,808291E+20	1,339848E+21	1,339859E+21	9,808453E+20	3,669904E+20	8,012166E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,008322E+18
1239	3,669078E+20	9,808385E+20	1,339957E+21	1,339971E+21	9,808843E+20	3,669603E+20	8,013387E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,014453E+18
1240	3,669937E+20	9,808936E+20	1,339962E+21	1,339941E+21	9,808421E+20	3,669399E+20	8,008341E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007933E+18
1241	3,669638E+20	9,808528E+20	1,339923E+21	1,339970E+21	9,809282E+20	3,670196E+20	8,012930E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,011401E+18
1242	3,669451E+20	9,808983E+20	1,340005E+21	1,340008E+21	9,809010E+20	3,669433E+20	8,010779E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,013490E+18
1243	3,670231E+20	9,809274E+20	1,339974E+21	1,339937E+21	9,808640E+20	3,669692E+20	8,007675E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,008091E+18
1244	3,669485E+20	9,808647E+20	1,339961E+21	1,339985E+21	9,809142E+20	3,670032E+20	8,014575E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012804E+18
1245	3,669594E+20	9,808919E+20	1,339977E+21	1,339960E+21	9,808409E+20	3,669185E+20	8,009219E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010852E+18
1246	3,669857E+20	9,808490E+20	1,339871E+21	1,339871E+21	9,808421E+20	3,669805E+20	8,011360E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,008846E+18
1247	3,668899E+20	9,807717E+20	1,339866E+21	1,339891E+21	9,808387E+20	3,669555E+20	8,015153E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,014347E+18
1248	3,669522E+20	9,807906E+20	1,339813E+21	1,339788E+21	9,807225E+20	3,668856E+20	8,008462E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,011420E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
1249	3,669322E+20	9,807206E+20	1,339704E+21	1,339722E+21	9,807457E+20	3,669576E+20	8,014864E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,011333E+18
1250	3,668658E+20	9,806961E+20	1,339742E+21	1,339741E+21	9,807065E+20	3,668829E+20	8,012842E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,015650E+18
1251	3,669370E+20	9,807095E+20	1,339690E+21	1,339649E+21	9,806326E+20	3,668739E+20	8,010202E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010522E+18
1252	3,668724E+20	9,806255E+20	1,339631E+21	1,339671E+21	9,806988E+20	3,669313E+20	8,015865E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012898E+18
1253	3,668669E+20	9,806622E+20	1,339680E+21	1,339680E+21	9,806513E+20	3,668504E+20	8,011150E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,015452E+18
1254	3,669392E+20	9,806883E+20	1,339641E+21	1,339625E+21	9,806598E+20	3,669098E+20	8,012161E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009100E+18
1255	3,668605E+20	9,806594E+20	1,339703E+21	1,339730E+21	9,807281E+20	3,669294E+20	8,015369E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,015158E+18
1256	3,669208E+20	9,807435E+20	1,339759E+21	1,339737E+21	9,806821E+20	3,668654E+20	8,010313E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,011565E+18
1257	3,669389E+20	9,807390E+20	1,339734E+21	1,339746E+21	9,807620E+20	3,669589E+20	8,012633E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009320E+18
1258	3,668735E+20	9,807356E+20	1,339826E+21	1,339848E+21	9,807995E+20	3,669276E+20	8,013700E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,015890E+18
1259	3,669671E+20	9,808062E+20	1,339841E+21	1,339816E+21	9,807516E+20	3,669041E+20	8,008441E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009183E+18
1260	3,669414E+20	9,807755E+20	1,339806E+21	1,339842E+21	9,808332E+20	3,669839E+20	8,013304E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,011925E+18
1261	3,669122E+20	9,808087E+20	1,339881E+21	1,339879E+21	9,808084E+20	3,669135E+20	8,011915E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,013810E+18
1262	3,669884E+20	9,808396E+20	1,339851E+21	1,339811E+21	9,807743E+20	3,669407E+20	8,009363E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,007940E+18
1263	3,669005E+20	9,807545E+20	1,339830E+21	1,339861E+21	9,808231E+20	3,669729E+20	8,016225E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,013412E+18
1264	3,669175E+20	9,807730E+20	1,339819E+21	1,339813E+21	9,807391E+20	3,668787E+20	8,009927E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012148E+18
1265	3,669501E+20	9,807406E+20	1,339714E+21	1,339706E+21	9,807257E+20	3,669381E+20	8,011856E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010737E+18
1266	3,668595E+20	9,806636E+20	1,339709E+21	1,339729E+21	9,807202E+20	3,669112E+20	8,015392E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,015954E+18
1267	3,669203E+20	9,806960E+20	1,339681E+21	1,339639E+21	9,806070E+20	3,668411E+20	8,008975E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012433E+18
1268	3,668951E+20	9,806213E+20	1,339575E+21	1,339585E+21	9,806367E+20	3,669155E+20	8,015488E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,011483E+18
1269	3,668194E+20	9,805772E+20	1,339593E+21	1,339604E+21	9,806103E+20	3,668492E+20	8,013884E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016261E+18
1270	3,668982E+20	9,806021E+20	1,339541E+21	1,339509E+21	9,805436E+20	3,668452E+20	8,011625E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010865E+18
1271	3,668346E+20	9,805246E+20	1,339498E+21	1,339541E+21	9,806072E+20	3,669017E+20	8,016965E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,013837E+18
1272	3,668388E+20	9,805732E+20	1,339548E+21	1,339546E+21	9,805559E+20	3,668160E+20	8,011948E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016160E+18
1273	3,669100E+20	9,806121E+20	1,339533E+21	1,339501E+21	9,805649E+20	3,668768E+20	8,012720E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009971E+18
1274	3,668293E+20	9,805722E+20	1,339594E+21	1,339620E+21	9,806408E+20	3,668957E+20	8,015838E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016025E+18
1275	3,668875E+20	9,806562E+20	1,339653E+21	1,339632E+21	9,806031E+20	3,668321E+20	8,010710E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012376E+18
1276	3,669089E+20	9,806504E+20	1,339618E+21	1,339631E+21	9,806797E+20	3,669264E+20	8,012777E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010166E+18
1277	3,668438E+20	9,806397E+20	1,339690E+21	1,339717E+21	9,807130E+20	3,668996E+20	8,014543E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016713E+18
1278	3,669415E+20	9,807252E+20	1,339714E+21	1,339685E+21	9,806651E+20	3,668781E+20	8,009756E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009335E+18
1279	3,669060E+20	9,806897E+20	1,339695E+21	1,339723E+21	9,807402E+20	3,669538E+20	8,014665E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012370E+18
1280	3,668744E+20	9,807089E+20	1,339749E+21	1,339748E+21	9,807085E+20	3,668764E+20	8,012872E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,014197E+18
1281	3,669470E+20	9,807351E+20	1,339716E+21	1,339674E+21	9,806722E+20	3,669018E+20	8,009908E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,009360E+18
1282	3,668640E+20	9,806400E+20	1,339679E+21	1,339715E+21	9,807182E+20	3,669317E+20	8,016438E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,014967E+18
1283	3,668861E+20	9,806730E+20	1,339677E+21	1,339665E+21	9,806311E+20	3,668359E+20	8,010076E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,013706E+18
1284	3,669209E+20	9,806467E+20	1,339578E+21	1,339559E+21	9,806152E+20	3,668967E+20	8,012350E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,011434E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
1285	3,668218E+20	9,805560E+20	1,339562E+21	1,339581E+21	9,806147E+20	3,668773E+20	8,016532E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016315E+18
1286	3,668786E+20	9,805894E+20	1,339538E+21	1,339501E+21	9,805093E+20	3,668105E+20	8,010806E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012435E+18
1287	3,668461E+20	9,805034E+20	1,339433E+21	1,339452E+21	9,805390E+20	3,668824E+20	8,016941E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012098E+18
1288	3,667795E+20	9,804597E+20	1,339431E+21	1,339450E+21	9,805045E+20	3,668116E+20	8,014700E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,017354E+18
1289	3,668661E+20	9,805063E+20	1,339399E+21	1,339358E+21	9,804328E+20	3,668062E+20	8,012180E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012370E+18
1290	3,668086E+20	9,804362E+20	1,339369E+21	1,339405E+21	9,805043E+20	3,668627E+20	8,017188E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,014977E+18
1291	3,668111E+20	9,804991E+20	1,339447E+21	1,339430E+21	9,804643E+20	3,667808E+20	8,012517E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016846E+18
1292	3,668776E+20	9,805297E+20	1,339432E+21	1,339398E+21	9,804820E+20	3,668439E+20	8,013148E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010112E+18
1293	3,667905E+20	9,804691E+20	1,339466E+21	1,339510E+21	9,805686E+20	3,668712E+20	8,016682E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016502E+18
1294	3,668539E+20	9,805606E+20	1,339523E+21	1,339516E+21	9,805299E+20	3,668095E+20	8,011908E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012675E+18
1295	3,668754E+20	9,805588E+20	1,339496E+21	1,339511E+21	9,805938E+20	3,668990E+20	8,013666E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,011022E+18
1296	3,668173E+20	9,805543E+20	1,339559E+21	1,339581E+21	9,806171E+20	3,668675E+20	8,015360E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,017257E+18
1297	3,669121E+20	9,806485E+20	1,339601E+21	1,339555E+21	9,805625E+20	3,668433E+20	8,010441E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010308E+18
1298	3,668741E+20	9,805977E+20	1,339576E+21	1,339602E+21	9,806423E+20	3,669146E+20	8,015112E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,013359E+18
1299	3,668403E+20	9,806160E+20	1,339628E+21	1,339626E+21	9,806151E+20	3,668381E+20	8,013226E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,015405E+18
1300	3,669148E+20	9,806365E+20	1,339583E+21	1,339541E+21	9,805725E+20	3,668620E+20	8,010115E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010554E+18
1301	3,668310E+20	9,805330E+20	1,339527E+21	1,339567E+21	9,806167E+20	3,668979E+20	8,017246E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,015754E+18
1302	3,668515E+20	9,805735E+20	1,339533E+21	1,339520E+21	9,805307E+20	3,668057E+20	8,011681E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,013895E+18
1303	3,668747E+20	9,805382E+20	1,339443E+21	1,339423E+21	9,805094E+20	3,668637E+20	8,014105E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,011659E+18
1304	3,667749E+20	9,804337E+20	1,339401E+21	1,339428E+21	9,805043E+20	3,668396E+20	8,017798E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016618E+18
1305	3,668313E+20	9,804695E+20	1,339380E+21	1,339345E+21	9,803961E+20	3,667708E+20	8,011694E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,013863E+18
1306	3,668093E+20	9,803864E+20	1,339273E+21	1,339297E+21	9,804262E+20	3,668377E+20	8,017073E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,013616E+18
1307	3,667521E+20	9,803694E+20	1,339296E+21	1,339305E+21	9,803959E+20	3,667695E+20	8,014835E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018877E+18
1308	3,668411E+20	9,804271E+20	1,339284E+21	1,339232E+21	9,803331E+20	3,667674E+20	8,012501E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,013028E+18
1309	3,667774E+20	9,803499E+20	1,339253E+21	1,339287E+21	9,804165E+20	3,668335E+20	8,018022E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,015204E+18
1310	3,667745E+20	9,804087E+20	1,339332E+21	1,339326E+21	9,803915E+20	3,667585E+20	8,014168E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016729E+18
1311	3,668348E+20	9,804289E+20	1,339314E+21	1,339295E+21	9,804079E+20	3,668189E+20	8,014184E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010783E+18
1312	3,667586E+20	9,803674E+20	1,339319E+21	1,339374E+21	9,804785E+20	3,668412E+20	8,017387E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,017414E+18
1313	3,668265E+20	9,804771E+20	1,339394E+21	1,339378E+21	9,804293E+20	3,667760E+20	8,012364E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,014012E+18
1314	3,668525E+20	9,804808E+20	1,339380E+21	1,339385E+21	9,804932E+20	3,668603E+20	8,013834E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012039E+18
1315	3,667910E+20	9,804857E+20	1,339460E+21	1,339467E+21	9,805207E+20	3,668311E+20	8,015918E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,017889E+18
1316	3,668790E+20	9,805656E+20	1,339497E+21	1,339449E+21	9,804748E+20	3,668071E+20	8,010855E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,010758E+18
1317	3,668358E+20	9,804936E+20	1,339442E+21	1,339482E+21	9,805598E+20	3,668851E+20	8,015908E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,013981E+18
1318	3,668043E+20	9,805123E+20	1,339487E+21	1,339499E+21	9,805316E+20	3,668124E+20	8,014579E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,015827E+18
1319	3,668753E+20	9,805322E+20	1,339444E+21	1,339410E+21	9,804767E+20	3,668308E+20	8,011302E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,011454E+18
1320	3,667953E+20	9,804260E+20	1,339368E+21	1,339409E+21	9,805067E+20	3,668630E+20	8,018477E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016124E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
1321	3,668094E+20	9,804686E+20	1,339390E+21	1,339366E+21	9,804120E+20	3,667671E+20	8,012775E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,014956E+18
1322	3,668323E+20	9,804202E+20	1,339291E+21	1,339275E+21	9,803935E+20	3,668182E+20	8,014806E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012722E+18
1323	3,667368E+20	9,803266E+20	1,339251E+21	1,339276E+21	9,803910E+20	3,667951E+20	8,018087E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018147E+18
1324	3,667996E+20	9,803676E+20	1,339232E+21	1,339193E+21	9,802832E+20	3,667262E+20	8,011952E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,015268E+18
1325	3,667806E+20	9,802894E+20	1,339127E+21	1,339150E+21	9,803220E+20	3,668005E+20	8,017557E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,014513E+18
1326	3,667226E+20	9,802843E+20	1,339173E+21	1,339181E+21	9,803046E+20	3,667414E+20	8,016290E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019076E+18
1327	3,667998E+20	9,803334E+20	1,339173E+21	1,339125E+21	9,802473E+20	3,667390E+20	8,013966E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,013113E+18
1328	3,667352E+20	9,802434E+20	1,339115E+21	1,339163E+21	9,803308E+20	3,668049E+20	8,019079E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,015308E+18
1329	3,667322E+20	9,803059E+20	1,339198E+21	1,339197E+21	9,803012E+20	3,667289E+20	8,014987E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,017789E+18
1330	3,668022E+20	9,803284E+20	1,339176E+21	1,339165E+21	9,803139E+20	3,667824E+20	8,014291E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,011997E+18
1331	3,667371E+20	9,802953E+20	1,339200E+21	1,339244E+21	9,803822E+20	3,668052E+20	8,017577E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018656E+18
1332	3,668048E+20	9,804099E+20	1,339291E+21	1,339263E+21	9,803374E+20	3,667412E+20	8,012731E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,014644E+18
1333	3,668247E+20	9,804043E+20	1,339274E+21	1,339277E+21	9,804093E+20	3,668301E+20	8,014554E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012411E+18
1334	3,667568E+20	9,803989E+20	1,339352E+21	1,339370E+21	9,804476E+20	3,668071E+20	8,017484E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,017893E+18
1335	3,668366E+20	9,804639E+20	1,339375E+21	1,339344E+21	9,803975E+20	3,667797E+20	8,011923E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,011579E+18
1336	3,668000E+20	9,803860E+20	1,339285E+21	1,339335E+21	9,804619E+20	3,668530E+20	8,016912E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,014769E+18
1337	3,667692E+20	9,804134E+20	1,339341E+21	1,339344E+21	9,804203E+20	3,667767E+20	8,015424E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,017081E+18
1338	3,668404E+20	9,804296E+20	1,339299E+21	1,339261E+21	9,803617E+20	3,667877E+20	8,011935E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012627E+18
1339	3,667606E+20	9,803311E+20	1,339229E+21	1,339259E+21	9,803895E+20	3,668193E+20	8,019172E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,017047E+18
1340	3,667691E+20	9,803595E+20	1,339246E+21	1,339224E+21	9,803019E+20	3,667227E+20	8,013207E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016011E+18
1341	3,667925E+20	9,803039E+20	1,339132E+21	1,339124E+21	9,802865E+20	3,667771E+20	8,015321E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,013715E+18
1342	3,667016E+20	9,802195E+20	1,339101E+21	1,339133E+21	9,802894E+20	3,667612E+20	8,019185E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018764E+18
1343	3,667619E+20	9,802688E+20	1,339098E+21	1,339063E+21	9,801867E+20	3,666930E+20	8,013115E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016004E+18
1344	3,667452E+20	9,801920E+20	1,338985E+21	1,339005E+21	9,802202E+20	3,667686E+20	8,018834E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,014635E+18
1345	3,666816E+20	9,801888E+20	1,339049E+21	1,339051E+21	9,802050E+20	3,667110E+20	8,017604E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019778E+18
1346	3,667578E+20	9,802250E+20	1,339040E+21	1,339005E+21	9,801571E+20	3,667032E+20	8,014728E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,013955E+18
1347	3,667022E+20	9,801497E+20	1,338981E+21	1,339031E+21	9,802372E+20	3,667686E+20	8,019270E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016688E+18
1348	3,667055E+20	9,802172E+20	1,339069E+21	1,339067E+21	9,802063E+20	3,666915E+20	8,015099E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019018E+18
1349	3,667790E+20	9,802495E+20	1,339054E+21	1,339038E+21	9,802226E+20	3,667486E+20	8,014548E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012763E+18
1350	3,667130E+20	9,802257E+20	1,339101E+21	1,339140E+21	9,803011E+20	3,667801E+20	8,018957E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018715E+18
1351	3,667686E+20	9,803296E+20	1,339196E+21	1,339172E+21	9,802639E+20	3,667163E+20	8,014080E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,014737E+18
1352	3,667857E+20	9,803064E+20	1,339146E+21	1,339160E+21	9,803296E+20	3,668025E+20	8,015650E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012732E+18
1353	3,667179E+20	9,802994E+20	1,339220E+21	1,339240E+21	9,803579E+20	3,667773E+20	8,018313E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019016E+18
1354	3,668023E+20	9,803594E+20	1,339232E+21	1,339208E+21	9,803002E+20	3,667410E+20	8,012154E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,013045E+18
1355	3,667745E+20	9,803034E+20	1,339150E+21	1,339187E+21	9,803538E+20	3,668125E+20	8,017250E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016095E+18
1356	3,667399E+20	9,803251E+20	1,339212E+21	1,339203E+21	9,803107E+20	3,667356E+20	8,015918E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,017932E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
1357	3,668034E+20	9,803284E+20	1,339162E+21	1,339122E+21	9,802566E+20	3,667486E+20	8,012805E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,013331E+18
1358	3,667206E+20	9,802225E+20	1,339090E+21	1,339129E+21	9,802920E+20	3,667852E+20	8,020613E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,017421E+18
1359	3,667244E+20	9,802432E+20	1,339096E+21	1,339085E+21	9,802028E+20	3,666877E+20	8,014293E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,017007E+18
1360	3,667539E+20	9,801893E+20	1,338965E+21	1,338959E+21	9,801737E+20	3,667391E+20	8,016416E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,014425E+18
1361	3,666650E+20	9,801209E+20	1,338958E+21	1,338976E+21	9,801743E+20	3,667242E+20	8,020185E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019705E+18
1362	3,667224E+20	9,801652E+20	1,338961E+21	1,338925E+21	9,800810E+20	3,666538E+20	8,014164E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016781E+18
1363	3,667072E+20	9,800978E+20	1,338856E+21	1,338871E+21	9,801183E+20	3,667301E+20	8,019564E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,015394E+18
1364	3,666419E+20	9,800817E+20	1,338915E+21	1,338924E+21	9,801119E+20	3,666737E+20	8,018064E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,020775E+18
1365	3,667216E+20	9,801177E+20	1,338895E+21	1,338872E+21	9,800676E+20	3,666685E+20	8,015010E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,015007E+18
1366	3,666752E+20	9,800589E+20	1,338853E+21	1,338907E+21	9,801498E+20	3,667389E+20	8,020009E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,017419E+18
1367	3,666775E+20	9,801373E+20	1,338956E+21	1,338953E+21	9,801243E+20	3,666636E+20	8,016005E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019589E+18
1368	3,667505E+20	9,801707E+20	1,338939E+21	1,338915E+21	9,801337E+20	3,667201E+20	8,015632E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,012908E+18
1369	3,666797E+20	9,801477E+20	1,339000E+21	1,339028E+21	9,802142E+20	3,667517E+20	8,020075E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019337E+18
1370	3,667318E+20	9,802335E+20	1,339078E+21	1,339065E+21	9,801855E+20	3,666838E+20	8,014753E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,015717E+18
1371	3,667577E+20	9,802218E+20	1,339019E+21	1,339030E+21	9,802377E+20	3,667663E+20	8,015838E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,014252E+18
1372	3,666925E+20	9,802106E+20	1,339091E+21	1,339107E+21	9,802606E+20	3,667390E+20	8,018450E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,020237E+18
1373	3,667746E+20	9,802719E+20	1,339102E+21	1,339071E+21	9,802011E+20	3,667033E+20	8,012475E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,014021E+18
1374	3,667424E+20	9,802135E+20	1,339031E+21	1,339060E+21	9,802559E+20	3,667810E+20	8,018744E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016201E+18
1375	3,666956E+20	9,802190E+20	1,339084E+21	1,339082E+21	9,802199E+20	3,667041E+20	8,017248E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018105E+18
1376	3,667554E+20	9,802063E+20	1,339001E+21	1,338970E+21	9,801541E+20	3,667138E+20	8,014233E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,013732E+18
1377	3,666761E+20	9,801058E+20	1,338933E+21	1,338970E+21	9,801802E+20	3,667478E+20	8,021608E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018398E+18
1378	3,666847E+20	9,801271E+20	1,338937E+21	1,338931E+21	9,800926E+20	3,666463E+20	8,014982E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018399E+18
1379	3,667235E+20	9,800980E+20	1,338822E+21	1,338801E+21	9,800577E+20	3,666959E+20	8,017006E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,015686E+18
1380	3,666325E+20	9,800259E+20	1,338828E+21	1,338838E+21	9,800658E+20	3,666828E+20	8,020695E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,020633E+18
1381	3,666839E+20	9,800613E+20	1,338827E+21	1,338795E+21	9,799846E+20	3,666162E+20	8,014901E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,017684E+18
1382	3,666691E+20	9,799910E+20	1,338724E+21	1,338750E+21	9,800312E+20	3,666994E+20	8,020631E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016005E+18
1383	3,666049E+20	9,799748E+20	1,338776E+21	1,338796E+21	9,800262E+20	3,666434E+20	8,018827E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,021652E+18
1384	3,666896E+20	9,800188E+20	1,338748E+21	1,338724E+21	9,799689E+20	3,666362E+20	8,015897E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,015607E+18
1385	3,666480E+20	9,799823E+20	1,338737E+21	1,338772E+21	9,800498E+20	3,667068E+20	8,020773E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018210E+18
1386	3,666466E+20	9,800551E+20	1,338848E+21	1,338840E+21	9,800366E+20	3,666323E+20	8,017056E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,020168E+18
1387	3,667212E+20	9,800966E+20	1,338837E+21	1,338805E+21	9,800475E+20	3,666859E+20	8,016126E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,013728E+18
1388	3,666484E+20	9,800604E+20	1,338890E+21	1,338921E+21	9,801327E+20	3,667173E+20	8,020303E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,020269E+18
1389	3,667002E+20	9,801390E+20	1,338951E+21	1,338945E+21	9,801046E+20	3,666512E+20	8,014918E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016705E+18
1390	3,667300E+20	9,801341E+20	1,338901E+21	1,338913E+21	9,801535E+20	3,667371E+20	8,016621E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,014932E+18
1391	3,666616E+20	9,801210E+20	1,338969E+21	1,338986E+21	9,801750E+20	3,667108E+20	8,019498E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,020416E+18
1392	3,667348E+20	9,801716E+20	1,338966E+21	1,338931E+21	9,801016E+20	3,666733E+20	8,013962E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,014176E+18

1 Longitude ☉ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
1393	3,667001E+20	9,801106E+20	1,338899E+21	1,338921E+21	9,801512E+20	3,667465E+20	8,020143E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016750E+18
1394	3,666504E+20	9,800976E+20	1,338930E+21	1,338938E+21	9,801183E+20	3,666663E+20	8,018164E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019325E+18
1395	3,667213E+20	9,801009E+20	1,338843E+21	1,338807E+21	9,800364E+20	3,666680E+20	8,014613E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,015482E+18
1396	3,666469E+20	9,800048E+20	1,338784E+21	1,338811E+21	9,800611E+20	3,666998E+20	8,021613E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019832E+18
1397	3,666539E+20	9,800298E+20	1,338795E+21	1,338781E+21	9,799824E+20	3,666039E+20	8,015368E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019662E+18
1398	3,666882E+20	9,799995E+20	1,338699E+21	1,338674E+21	9,799564E+20	3,666609E+20	8,018352E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016160E+18
1399	3,665900E+20	9,799146E+20	1,338694E+21	1,338716E+21	9,799773E+20	3,666509E+20	8,021738E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,020899E+18
1400	3,666366E+20	9,799393E+20	1,338668E+21	1,338647E+21	9,798880E+20	3,665849E+20	8,016150E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018252E+18
1401	3,666302E+20	9,798832E+20	1,338577E+21	1,338599E+21	9,799271E+20	3,666656E+20	8,021373E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016864E+18
1402	3,665719E+20	9,798745E+20	1,338634E+21	1,338657E+21	9,799286E+20	3,666091E+20	8,019514E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,022731E+18
1403	3,666664E+20	9,799467E+20	1,338629E+21	1,338587E+21	9,798662E+20	3,665991E+20	8,016457E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016508E+18
1404	3,666229E+20	9,799097E+20	1,338638E+21	1,338662E+21	9,799574E+20	3,666705E+20	8,021113E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018971E+18
1405	3,666163E+20	9,799734E+20	1,338745E+21	1,338740E+21	9,799600E+20	3,666013E+20	8,017663E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,020886E+18
1406	3,666892E+20	9,800075E+20	1,338733E+21	1,338709E+21	9,799755E+20	3,666596E+20	8,016932E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,014421E+18
1407	3,666178E+20	9,799681E+20	1,338769E+21	1,338810E+21	9,800592E+20	3,666913E+20	8,020896E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,020716E+18
1408	3,666663E+20	9,800445E+20	1,338814E+21	1,338808E+21	9,800137E+20	3,666233E+20	8,015929E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,017033E+18
1409	3,666967E+20	9,800485E+20	1,338781E+21	1,338777E+21	9,800537E+20	3,667067E+20	8,017745E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,015414E+18
1410	3,666228E+20	9,800195E+20	1,338838E+21	1,338858E+21	9,800799E+20	3,666791E+20	8,020819E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,020929E+18
1411	3,666976E+20	9,800722E+20	1,338828E+21	1,338790E+21	9,799966E+20	3,666335E+20	8,014678E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,015364E+18
1412	3,666647E+20	9,800031E+20	1,338756E+21	1,338779E+21	9,800431E+20	3,667011E+20	8,020201E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018176E+18
1413	3,666183E+20	9,799912E+20	1,338778E+21	1,338787E+21	9,800096E+20	3,666231E+20	8,018130E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,020887E+18
1414	3,666917E+20	9,800040E+20	1,338711E+21	1,338669E+21	9,799299E+20	3,666289E+20	8,015362E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016585E+18
1415	3,666148E+20	9,799100E+20	1,338652E+21	1,338676E+21	9,799621E+20	3,666651E+20	8,022465E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,020016E+18
1416	3,666095E+20	9,799208E+20	1,338651E+21	1,338635E+21	9,798789E+20	3,665729E+20	8,017026E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019952E+18
1417	3,666421E+20	9,798873E+20	1,338559E+21	1,338534E+21	9,798546E+20	3,666284E+20	8,019901E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016666E+18
1418	3,665450E+20	9,797890E+20	1,338531E+21	1,338571E+21	9,798799E+20	3,666178E+20	8,022832E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,021924E+18
1419	3,666028E+20	9,798350E+20	1,338511E+21	1,338486E+21	9,797747E+20	3,665439E+20	8,016689E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019731E+18
1420	3,666043E+20	9,797946E+20	1,338444E+21	1,338454E+21	9,798131E+20	3,666202E+20	8,021273E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018018E+18
1421	3,665459E+20	9,797946E+20	1,338515E+21	1,338527E+21	9,798287E+20	3,665724E+20	8,019953E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023579E+18
1422	3,666354E+20	9,798675E+20	1,338535E+21	1,338491E+21	9,797841E+20	3,665696E+20	8,017581E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016794E+18
1423	3,665884E+20	9,798216E+20	1,338533E+21	1,338570E+21	9,798893E+20	3,666443E+20	8,021858E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018979E+18
1424	3,665753E+20	9,798710E+20	1,338613E+21	1,338621E+21	9,798847E+20	3,665789E+20	8,018866E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,021189E+18
1425	3,666546E+20	9,799147E+20	1,338608E+21	1,338585E+21	9,798900E+20	3,666323E+20	8,017623E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,015171E+18
1426	3,665870E+20	9,798733E+20	1,338635E+21	1,338683E+21	9,799722E+20	3,666623E+20	8,021709E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,021533E+18
1427	3,666392E+20	9,799647E+20	1,338690E+21	1,338670E+21	9,799105E+20	3,665872E+20	8,016487E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018070E+18
1428	3,666677E+20	9,799642E+20	1,338665E+21	1,338652E+21	9,799482E+20	3,666645E+20	8,017989E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016531E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
1429	3,665907E+20	9,799244E+20	1,338708E+21	1,338730E+21	9,799833E+20	3,666409E+20	8,021227E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,022073E+18
1430	3,666644E+20	9,799720E+20	1,338698E+21	1,338665E+21	9,799012E+20	3,665973E+20	8,015382E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016670E+18
1431	3,666351E+20	9,799045E+20	1,338615E+21	1,338643E+21	9,799448E+20	3,666634E+20	8,020609E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018802E+18
1432	3,665815E+20	9,798889E+20	1,338629E+21	1,338633E+21	9,799012E+20	3,665897E+20	8,019297E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,021389E+18
1433	3,666522E+20	9,799055E+20	1,338577E+21	1,338524E+21	9,798210E+20	3,665952E+20	8,016916E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016979E+18
1434	3,665683E+20	9,797935E+20	1,338506E+21	1,338540E+21	9,798629E+20	3,666332E+20	8,024056E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,020354E+18
1435	3,665640E+20	9,798045E+20	1,338495E+21	1,338483E+21	9,797689E+20	3,665340E+20	8,018114E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,021071E+18
1436	3,666008E+20	9,797681E+20	1,338400E+21	1,338382E+21	9,797412E+20	3,665838E+20	8,020205E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,017955E+18
1437	3,665127E+20	9,796812E+20	1,338373E+21	1,338417E+21	9,797698E+20	3,665758E+20	8,022849E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023320E+18
1438	3,665739E+20	9,797439E+20	1,338383E+21	1,338353E+21	9,796718E+20	3,665068E+20	8,017450E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,020721E+18
1439	3,665775E+20	9,797150E+20	1,338331E+21	1,338336E+21	9,797230E+20	3,665868E+20	8,021794E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018048E+18
1440	3,665083E+20	9,797067E+20	1,338400E+21	1,338410E+21	9,797421E+20	3,665473E+20	8,021471E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023734E+18
1441	3,665969E+20	9,797764E+20	1,338423E+21	1,338386E+21	9,797072E+20	3,665443E+20	8,018862E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,017176E+18
1442	3,665516E+20	9,797204E+20	1,338401E+21	1,338455E+21	9,798149E+20	3,666190E+20	8,022717E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019896E+18
1443	3,665482E+20	9,797844E+20	1,338479E+21	1,338484E+21	9,797889E+20	3,665447E+20	8,019255E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,022471E+18
1444	3,666310E+20	9,798368E+20	1,338489E+21	1,338458E+21	9,797881E+20	3,665913E+20	8,017397E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016462E+18
1445	3,665636E+20	9,797967E+20	1,338518E+21	1,338558E+21	9,798755E+20	3,666264E+20	8,022066E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,022448E+18
1446	3,666072E+20	9,798800E+20	1,338587E+21	1,338566E+21	9,798221E+20	3,665550E+20	8,017442E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018773E+18
1447	3,666339E+20	9,798710E+20	1,338545E+21	1,338541E+21	9,798647E+20	3,666309E+20	8,018537E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016802E+18
1448	3,665492E+20	9,798173E+20	1,338563E+21	1,338590E+21	9,798879E+20	3,666119E+20	8,022448E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,022511E+18
1449	3,666270E+20	9,798718E+20	1,338557E+21	1,338525E+21	9,798019E+20	3,665647E+20	8,016474E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,017388E+18
1450	3,665976E+20	9,798002E+20	1,338467E+21	1,338499E+21	9,798446E+20	3,666312E+20	8,021972E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019357E+18
1451	3,665442E+20	9,797894E+20	1,338484E+21	1,338480E+21	9,797868E+20	3,665521E+20	8,020472E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,022297E+18
1452	3,666110E+20	9,797979E+20	1,338439E+21	1,338386E+21	9,797061E+20	3,665502E+20	8,017654E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018191E+18
1453	3,665282E+20	9,796755E+20	1,338346E+21	1,338390E+21	9,797552E+20	3,665919E+20	8,024574E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,021610E+18
1454	3,665242E+20	9,796872E+20	1,338343E+21	1,338338E+21	9,796619E+20	3,664944E+20	8,018775E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,022636E+18
1455	3,665704E+20	9,796656E+20	1,338249E+21	1,338232E+21	9,796325E+20	3,665411E+20	8,020406E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018516E+18
1456	3,664776E+20	9,795849E+20	1,338229E+21	1,338263E+21	9,796592E+20	3,665417E+20	8,023903E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023785E+18
1457	3,665382E+20	9,796573E+20	1,338264E+21	1,338226E+21	9,795760E+20	3,664765E+20	8,018984E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,020946E+18
1458	3,665373E+20	9,796176E+20	1,338209E+21	1,338225E+21	9,796421E+20	3,665591E+20	8,023076E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018469E+18
1459	3,664724E+20	9,796116E+20	1,338273E+21	1,338287E+21	9,796535E+20	3,665156E+20	8,022280E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024862E+18
1460	3,665652E+20	9,796826E+20	1,338298E+21	1,338267E+21	9,796160E+20	3,665060E+20	8,018756E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018551E+18
1461	3,665281E+20	9,796364E+20	1,338272E+21	1,338328E+21	9,797251E+20	3,665836E+20	8,022524E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,021114E+18
1462	3,665228E+20	9,797083E+20	1,338373E+21	1,338372E+21	9,797026E+20	3,665134E+20	8,019854E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023284E+18
1463	3,666051E+20	9,797638E+20	1,338386E+21	1,338351E+21	9,797050E+20	3,665599E+20	8,017901E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016426E+18
1464	3,665261E+20	9,797088E+20	1,338402E+21	1,338442E+21	9,797891E+20	3,666014E+20	8,023690E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,022570E+18



1 Longitude ☉ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
1465	3,665678E+20	9,797834E+20	1,338462E+21	1,338449E+21	9,797414E+20	3,665298E+20	8,018972E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019232E+18
1466	3,665952E+20	9,797650E+20	1,338402E+21	1,338411E+21	9,797777E+20	3,666014E+20	8,019674E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,017785E+18
1467	3,665184E+20	9,797224E+20	1,338416E+21	1,338436E+21	9,797755E+20	3,665723E+20	8,023130E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023669E+18
1468	3,665946E+20	9,797783E+20	1,338422E+21	1,338381E+21	9,796863E+20	3,665189E+20	8,016743E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018733E+18
1469	3,665633E+20	9,797021E+20	1,338328E+21	1,338356E+21	9,797354E+20	3,665902E+20	8,022638E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,020286E+18
1470	3,665017E+20	9,796788E+20	1,338351E+21	1,338350E+21	9,796842E+20	3,665143E+20	8,021528E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023329E+18
1471	3,665695E+20	9,796813E+20	1,338285E+21	1,338245E+21	9,796069E+20	3,665105E+20	8,018245E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018792E+18
1472	3,664845E+20	9,795551E+20	1,338178E+21	1,338225E+21	9,796440E+20	3,665566E+20	8,025618E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,022351E+18
1473	3,664868E+20	9,795797E+20	1,338187E+21	1,338182E+21	9,795544E+20	3,664589E+20	8,019880E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023420E+18
1474	3,665340E+20	9,795658E+20	1,338105E+21	1,338087E+21	9,795304E+20	3,665067E+20	8,021545E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019098E+18
1475	3,664450E+20	9,794970E+20	1,338101E+21	1,338121E+21	9,795490E+20	3,665041E+20	8,024856E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024643E+18
1476	3,665029E+20	9,795661E+20	1,338148E+21	1,338112E+21	9,794798E+20	3,664370E+20	8,019616E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,022057E+18
1477	3,665051E+20	9,795224E+20	1,338081E+21	1,338106E+21	9,795575E+20	3,665247E+20	8,023316E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019699E+18
1478	3,664418E+20	9,795191E+20	1,338154E+21	1,338171E+21	9,795696E+20	3,664843E+20	8,022785E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026205E+18
1479	3,665410E+20	9,796017E+20	1,338179E+21	1,338148E+21	9,795310E+20	3,664715E+20	8,018784E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018848E+18
1480	3,664969E+20	9,795559E+20	1,338153E+21	1,338199E+21	9,796344E+20	3,665572E+20	8,023628E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,021305E+18
1481	3,664880E+20	9,796252E+20	1,338264E+21	1,338262E+21	9,796234E+20	3,664898E+20	8,021521E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023202E+18
1482	3,665640E+20	9,796670E+20	1,338266E+21	1,338242E+21	9,796287E+20	3,665346E+20	8,019373E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,016801E+18
1483	3,664896E+20	9,796098E+20	1,338267E+21	1,338308E+21	9,796938E+20	3,665678E+20	8,024636E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023622E+18
1484	3,665352E+20	9,796859E+20	1,338328E+21	1,338317E+21	9,796396E+20	3,664882E+20	8,019012E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,020833E+18
1485	3,665692E+20	9,796732E+20	1,338261E+21	1,338266E+21	9,796732E+20	3,665592E+20	8,019673E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019224E+18
1486	3,664889E+20	9,796342E+20	1,338295E+21	1,338303E+21	9,796731E+20	3,665342E+20	8,023682E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024758E+18
1487	3,665619E+20	9,796871E+20	1,338298E+21	1,338253E+21	9,795871E+20	3,664793E+20	8,017269E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019131E+18
1488	3,665183E+20	9,795916E+20	1,338184E+21	1,338213E+21	9,796335E+20	3,665579E+20	8,024231E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,020721E+18
1489	3,664568E+20	9,795577E+20	1,338192E+21	1,338206E+21	9,795894E+20	3,664832E+20	8,023014E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024031E+18
1490	3,665257E+20	9,795589E+20	1,338117E+21	1,338087E+21	9,795021E+20	3,664750E+20	8,019477E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019898E+18
1491	3,664515E+20	9,794505E+20	1,338017E+21	1,338051E+21	9,795164E+20	3,665118E+20	8,026258E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023476E+18
1492	3,664540E+20	9,794855E+20	1,338052E+21	1,338033E+21	9,794336E+20	3,664128E+20	8,020332E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024687E+18
1493	3,665008E+20	9,794729E+20	1,337978E+21	1,337953E+21	9,794259E+20	3,664660E+20	8,022161E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019933E+18
1494	3,664070E+20	9,794008E+20	1,337988E+21	1,338009E+21	9,794603E+20	3,664696E+20	8,025640E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025654E+18
1495	3,664681E+20	9,794677E+20	1,338021E+21	1,337997E+21	9,794014E+20	3,664041E+20	8,020052E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,022418E+18
1496	3,664679E+20	9,794229E+20	1,337946E+21	1,337975E+21	9,794720E+20	3,664981E+20	8,024172E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,020233E+18
1497	3,664106E+20	9,794277E+20	1,338025E+21	1,338049E+21	9,794905E+20	3,664602E+20	8,024055E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026397E+18
1498	3,665057E+20	9,795138E+20	1,338060E+21	1,338029E+21	9,794514E+20	3,664473E+20	8,020038E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019153E+18
1499	3,664665E+20	9,794752E+20	1,338040E+21	1,338071E+21	9,795354E+20	3,665244E+20	8,024608E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,022040E+18
1500	3,664552E+20	9,795369E+20	1,338151E+21	1,338149E+21	9,795318E+20	3,664536E+20	8,022098E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024420E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\ominus$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
1501	3,665352E+20	9,795747E+20	1,338139E+21	1,338118E+21	9,795410E+20	3,664976E+20	8,019471E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,018349E+18
1502	3,664639E+20	9,795237E+20	1,338148E+21	1,338182E+21	9,795990E+20	3,665298E+20	8,024802E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025143E+18
1503	3,665124E+20	9,796057E+20	1,338206E+21	1,338188E+21	9,795452E+20	3,664487E+20	8,018975E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,021314E+18
1504	3,665346E+20	9,795852E+20	1,338138E+21	1,338130E+21	9,795737E+20	3,665275E+20	8,020900E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019584E+18
1505	3,664485E+20	9,795315E+20	1,338165E+21	1,338180E+21	9,795850E+20	3,665067E+20	8,025469E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024676E+18
1506	3,665110E+20	9,795669E+20	1,338151E+21	1,338120E+21	9,794982E+20	3,664503E+20	8,018893E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019840E+18
1507	3,664746E+20	9,794697E+20	1,338019E+21	1,338046E+21	9,795170E+20	3,665183E+20	8,025294E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,021801E+18
1508	3,664188E+20	9,794411E+20	1,338030E+21	1,338043E+21	9,794684E+20	3,664370E+20	8,023234E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025615E+18
1509	3,664939E+20	9,794536E+20	1,337959E+21	1,337923E+21	9,793830E+20	3,664284E+20	8,019807E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,021218E+18
1510	3,664194E+20	9,793583E+20	1,337891E+21	1,337909E+21	9,794031E+20	3,664688E+20	8,026771E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024503E+18
1511	3,664210E+20	9,793947E+20	1,337932E+21	1,337908E+21	9,793356E+20	3,663739E+20	8,021005E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025013E+18
1512	3,664579E+20	9,793686E+20	1,337849E+21	1,337827E+21	9,793361E+20	3,664368E+20	8,023597E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,020428E+18
1513	3,663682E+20	9,792921E+20	1,337848E+21	1,337888E+21	9,793842E+20	3,664452E+20	8,026988E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026179E+18
1514	3,664297E+20	9,793633E+20	1,337879E+21	1,337864E+21	9,793177E+20	3,663771E+20	8,021169E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023233E+18
1515	3,664384E+20	9,793323E+20	1,337811E+21	1,337826E+21	9,793644E+20	3,664620E+20	8,024702E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,021076E+18
1516	3,663821E+20	9,793444E+20	1,337909E+21	1,337923E+21	9,793896E+20	3,664226E+20	8,024450E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027369E+18
1517	3,664757E+20	9,794280E+20	1,337944E+21	1,337910E+21	9,793599E+20	3,664113E+20	8,020487E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,020043E+18
1518	3,664360E+20	9,793912E+20	1,337937E+21	1,337965E+21	9,794501E+20	3,664894E+20	8,024912E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023327E+18
1519	3,664294E+20	9,794530E+20	1,338036E+21	1,338036E+21	9,794509E+20	3,664199E+20	8,022226E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024961E+18
1520	3,665044E+20	9,794872E+20	1,338017E+21	1,337992E+21	9,794531E+20	3,664680E+20	8,020141E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019072E+18
1521	3,664353E+20	9,794375E+20	1,338025E+21	1,338064E+21	9,795196E+20	3,665039E+20	8,026013E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025143E+18
1522	3,664729E+20	9,795126E+20	1,338083E+21	1,338065E+21	9,794616E+20	3,664234E+20	8,020425E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,021609E+18
1523	3,664944E+20	9,794838E+20	1,338006E+21	1,337990E+21	9,794664E+20	3,664926E+20	8,022296E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,020244E+18
1524	3,664071E+20	9,794164E+20	1,338020E+21	1,338042E+21	9,794808E+20	3,664681E+20	8,026294E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025867E+18
1525	3,664718E+20	9,794465E+20	1,337987E+21	1,337962E+21	9,793887E+20	3,664086E+20	8,019387E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,021587E+18
1526	3,664427E+20	9,793648E+20	1,337869E+21	1,337885E+21	9,793948E+20	3,664707E+20	8,025476E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023401E+18
1527	3,663916E+20	9,793472E+20	1,337886E+21	1,337887E+21	9,793513E+20	3,663910E+20	8,023312E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026211E+18
1528	3,664555E+20	9,793564E+20	1,337826E+21	1,337777E+21	9,792725E+20	3,663914E+20	8,021119E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,021662E+18
1529	3,663788E+20	9,792534E+20	1,337757E+21	1,337787E+21	9,793149E+20	3,664392E+20	8,028422E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024405E+18
1530	3,663717E+20	9,792787E+20	1,337790E+21	1,337783E+21	9,792553E+20	3,663489E+20	8,022659E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025722E+18
1531	3,664170E+20	9,792548E+20	1,337699E+21	1,337679E+21	9,792322E+20	3,664020E+20	8,024496E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,021461E+18
1532	3,663362E+20	9,791880E+20	1,337703E+21	1,337745E+21	9,792796E+20	3,664066E+20	8,027117E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027455E+18
1533	3,664009E+20	9,792714E+20	1,337743E+21	1,337724E+21	9,792178E+20	3,663394E+20	8,021374E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024349E+18
1534	3,664123E+20	9,792582E+20	1,337707E+21	1,337703E+21	9,792639E+20	3,664239E+20	8,024873E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,022050E+18
1535	3,663568E+20	9,792702E+20	1,337807E+21	1,337816E+21	9,793043E+20	3,663892E+20	8,024935E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027536E+18
1536	3,664407E+20	9,793409E+20	1,337834E+21	1,337805E+21	9,792833E+20	3,663857E+20	8,021623E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,020597E+18

1 Longitude ☉ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
1537	3,664062E+20	9,793006E+20	1,337815E+21	1,337860E+21	9,793816E+20	3,664662E+20	8,026041E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023756E+18
1538	3,663964E+20	9,793641E+20	1,337912E+21	1,337917E+21	9,793731E+20	3,663964E+20	8,023379E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025523E+18
1539	3,664735E+20	9,794014E+20	1,337893E+21	1,337855E+21	9,793488E+20	3,664336E+20	8,020928E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,019758E+18
1540	3,664018E+20	9,793467E+20	1,337904E+21	1,337936E+21	9,794185E+20	3,664682E+20	8,026755E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025742E+18
1541	3,664321E+20	9,794064E+20	1,337947E+21	1,337934E+21	9,793643E+20	3,663869E+20	8,021214E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,022628E+18
1542	3,664547E+20	9,793755E+20	1,337869E+21	1,337854E+21	9,793618E+20	3,664517E+20	8,022812E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,021757E+18
1543	3,663752E+20	9,793087E+20	1,337866E+21	1,337892E+21	9,793737E+20	3,664263E+20	8,026442E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026694E+18
1544	3,664355E+20	9,793385E+20	1,337831E+21	1,337803E+21	9,792755E+20	3,663699E+20	8,020217E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,022652E+18
1545	3,664106E+20	9,792640E+20	1,337723E+21	1,337742E+21	9,792926E+20	3,664349E+20	8,026608E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023582E+18
1546	3,663501E+20	9,792476E+20	1,337751E+21	1,337747E+21	9,792499E+20	3,663598E+20	8,024781E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026687E+18
1547	3,664118E+20	9,792477E+20	1,337686E+21	1,337633E+21	9,791598E+20	3,663534E+20	8,022591E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,022379E+18
1548	3,663374E+20	9,791394E+20	1,337612E+21	1,337651E+21	9,792146E+20	3,664017E+20	8,029054E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025553E+18
1549	3,663336E+20	9,791639E+20	1,337633E+21	1,337634E+21	9,791540E+20	3,663117E+20	8,023189E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027365E+18
1550	3,663877E+20	9,791606E+20	1,337563E+21	1,337535E+21	9,791218E+20	3,663596E+20	8,024538E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,022873E+18
1551	3,663135E+20	9,791074E+20	1,337578E+21	1,337611E+21	9,791776E+20	3,663677E+20	8,027196E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027753E+18
1552	3,663657E+20	9,791862E+20	1,337629E+21	1,337604E+21	9,791256E+20	3,663099E+20	8,022569E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024594E+18
1553	3,663778E+20	9,791690E+20	1,337596E+21	1,337607E+21	9,791928E+20	3,663992E+20	8,026179E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,021919E+18
1554	3,663169E+20	9,791771E+20	1,337689E+21	1,337711E+21	9,792358E+20	3,663696E+20	8,026408E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028018E+18
1555	3,664065E+20	9,792469E+20	1,337707E+21	1,337680E+21	9,791929E+20	3,663558E+20	8,022487E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,021423E+18
1556	3,663792E+20	9,792150E+20	1,337692E+21	1,337737E+21	9,792900E+20	3,664323E+20	8,026273E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024712E+18
1557	3,663673E+20	9,792784E+20	1,337788E+21	1,337789E+21	9,792813E+20	3,663633E+20	8,023869E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026448E+18
1558	3,664434E+20	9,793228E+20	1,337786E+21	1,337734E+21	9,792476E+20	3,663949E+20	8,021211E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,020985E+18
1559	3,663728E+20	9,792576E+20	1,337781E+21	1,337816E+21	9,793245E+20	3,664315E+20	8,027281E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026146E+18
1560	3,663912E+20	9,792986E+20	1,337807E+21	1,337802E+21	9,792715E+20	3,663552E+20	8,022224E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023764E+18
1561	3,664215E+20	9,792669E+20	1,337716E+21	1,337715E+21	9,792665E+20	3,664179E+20	8,023905E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,022446E+18
1562	3,663388E+20	9,792067E+20	1,337714E+21	1,337738E+21	9,792676E+20	3,663933E+20	8,027576E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027349E+18
1563	3,663979E+20	9,792377E+20	1,337685E+21	1,337643E+21	9,791513E+20	3,663279E+20	8,021348E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023378E+18
1564	3,663713E+20	9,791610E+20	1,337585E+21	1,337598E+21	9,791771E+20	3,663931E+20	8,027481E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024158E+18
1565	3,663046E+20	9,791314E+20	1,337604E+21	1,337607E+21	9,791463E+20	3,663225E+20	8,025760E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027835E+18
1566	3,663704E+20	9,791372E+20	1,337544E+21	1,337494E+21	9,790531E+20	3,663118E+20	8,023152E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023940E+18
1567	3,663060E+20	9,790340E+20	1,337461E+21	1,337506E+21	9,791117E+20	3,663618E+20	8,029153E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026221E+18
1568	3,662968E+20	9,790608E+20	1,337488E+21	1,337491E+21	9,790533E+20	3,662780E+20	8,024021E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028239E+18
1569	3,663560E+20	9,790666E+20	1,337430E+21	1,337410E+21	9,790329E+20	3,663293E+20	8,025661E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,022793E+18
1570	3,662761E+20	9,790201E+20	1,337460E+21	1,337491E+21	9,790910E+20	3,663431E+20	8,028661E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027943E+18
1571	3,663263E+20	9,790910E+20	1,337508E+21	1,337483E+21	9,790323E+20	3,662794E+20	8,024012E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025179E+18
1572	3,663448E+20	9,790763E+20	1,337473E+21	1,337491E+21	9,791080E+20	3,663670E+20	8,026614E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023083E+18

1 Longitude $\ominus$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
1573	3,662881E+20	9,790863E+20	1,337558E+21	1,337583E+21	9,791477E+20	3,663374E+20	8,026828E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029567E+18
1574	3,663848E+20	9,791744E+20	1,337595E+21	1,337556E+21	9,790943E+20	3,663157E+20	8,022290E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,022898E+18
1575	3,663600E+20	9,791471E+20	1,337584E+21	1,337620E+21	9,791970E+20	3,663949E+20	8,026291E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025024E+18
1576	3,663317E+20	9,791923E+20	1,337676E+21	1,337676E+21	9,791940E+20	3,663343E+20	8,024985E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026807E+18
1577	3,664051E+20	9,792222E+20	1,337661E+21	1,337630E+21	9,791726E+20	3,663678E+20	8,022503E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,021220E+18
1578	3,663314E+20	9,791530E+20	1,337641E+21	1,337686E+21	9,792389E+20	3,664060E+20	8,028709E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026734E+18
1579	3,663513E+20	9,791865E+20	1,337650E+21	1,337647E+21	9,791596E+20	3,663189E+20	8,023267E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024764E+18
1580	3,663881E+20	9,791661E+20	1,337567E+21	1,337562E+21	9,791527E+20	3,663757E+20	8,024359E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023366E+18
1581	3,663024E+20	9,791065E+20	1,337569E+21	1,337584E+21	9,791528E+20	3,663530E+20	8,028345E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028257E+18
1582	3,663604E+20	9,791438E+20	1,337557E+21	1,337504E+21	9,790350E+20	3,662831E+20	8,022018E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024633E+18
1583	3,663351E+20	9,790587E+20	1,337448E+21	1,337466E+21	9,790750E+20	3,663523E+20	8,028184E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024668E+18
1584	3,662601E+20	9,790128E+20	1,337452E+21	1,337468E+21	9,790497E+20	3,662900E+20	8,026885E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029134E+18
1585	3,663342E+20	9,790225E+20	1,337387E+21	1,337356E+21	9,789598E+20	3,662789E+20	8,024296E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024665E+18
1586	3,662707E+20	9,789350E+20	1,337313E+21	1,337356E+21	9,790106E+20	3,663306E+20	8,030170E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026709E+18
1587	3,662582E+20	9,789607E+20	1,337348E+21	1,337341E+21	9,789410E+20	3,662417E+20	8,025278E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028724E+18
1588	3,663187E+20	9,789718E+20	1,337305E+21	1,337282E+21	9,789327E+20	3,662925E+20	8,026422E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023235E+18
1589	3,662373E+20	9,789205E+20	1,337331E+21	1,337368E+21	9,790012E+20	3,663106E+20	8,029487E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029126E+18
1590	3,662960E+20	9,790050E+20	1,337390E+21	1,337364E+21	9,789410E+20	3,662424E+20	8,024258E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026787E+18
1591	3,663252E+20	9,789999E+20	1,337356E+21	1,337373E+21	9,790207E+20	3,663306E+20	8,026392E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023919E+18
1592	3,662623E+20	9,790096E+20	1,337447E+21	1,337469E+21	9,790653E+20	3,663086E+20	8,027390E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030397E+18
1593	3,663582E+20	9,790976E+20	1,337490E+21	1,337456E+21	9,790205E+20	3,662890E+20	8,023239E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,022857E+18
1594	3,663240E+20	9,790661E+20	1,337476E+21	1,337510E+21	9,791190E+20	3,663723E+20	8,027764E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024995E+18
1595	3,662877E+20	9,790870E+20	1,337546E+21	1,337555E+21	9,791048E+20	3,663054E+20	8,026503E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027275E+18
1596	3,663660E+20	9,791150E+20	1,337517E+21	1,337494E+21	9,790780E+20	3,663335E+20	8,023264E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,022347E+18
1597	3,662966E+20	9,790468E+20	1,337487E+21	1,337530E+21	9,791303E+20	3,663684E+20	8,029459E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028137E+18
1598	3,663229E+20	9,790990E+20	1,337514E+21	1,337493E+21	9,790388E+20	3,662724E+20	8,023437E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026281E+18
1599	3,663602E+20	9,790800E+20	1,337437E+21	1,337419E+21	9,790388E+20	3,663299E+20	8,024724E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023839E+18
1600	3,662601E+20	9,790025E+20	1,337437E+21	1,337452E+21	9,790509E+20	3,663162E+20	8,029411E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028969E+18
1601	3,663166E+20	9,790254E+20	1,337411E+21	1,337382E+21	9,789485E+20	3,662502E+20	8,023387E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025273E+18
1602	3,662903E+20	9,789419E+20	1,337292E+21	1,337321E+21	9,789806E+20	3,663226E+20	8,029520E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025358E+18
1603	3,662170E+20	9,788896E+20	1,337284E+21	1,337305E+21	9,789363E+20	3,662530E+20	8,028011E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030140E+18
1604	3,662979E+20	9,789163E+20	1,337232E+21	1,337197E+21	9,788479E+20	3,662388E+20	8,024931E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025538E+18
1605	3,662350E+20	9,788364E+20	1,337170E+21	1,337202E+21	9,788978E+20	3,662920E+20	8,030881E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027706E+18
1606	3,662258E+20	9,788744E+20	1,337227E+21	1,337208E+21	9,788320E+20	3,661994E+20	8,025793E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030035E+18
1607	3,662907E+20	9,788862E+20	1,337188E+21	1,337165E+21	9,788424E+20	3,662533E+20	8,026645E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024004E+18
1608	3,662063E+20	9,788301E+20	1,337210E+21	1,337252E+21	9,789186E+20	3,662805E+20	8,030101E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030463E+18



1 Longitude ☉ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
1609	3,662712E+20	9,789191E+20	1,337271E+21	1,337258E+21	9,788683E+20	3,662155E+20	8,025146E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027240E+18
1610	3,662977E+20	9,789281E+20	1,337250E+21	1,337259E+21	9,789417E+20	3,663056E+20	8,027261E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024007E+18
1611	3,662254E+20	9,789211E+20	1,337333E+21	1,337349E+21	9,789756E+20	3,662813E+20	8,028842E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030325E+18
1612	3,663174E+20	9,790038E+20	1,337373E+21	1,337343E+21	9,789382E+20	3,662599E+20	8,024190E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023126E+18
1613	3,662821E+20	9,789611E+20	1,337342E+21	1,337382E+21	9,790314E+20	3,663425E+20	8,028808E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026093E+18
1614	3,662550E+20	9,789890E+20	1,337409E+21	1,337416E+21	9,790040E+20	3,662666E+20	8,026813E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028888E+18
1615	3,663417E+20	9,790252E+20	1,337381E+21	1,337354E+21	9,789741E+20	3,662902E+20	8,023239E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023418E+18
1616	3,662671E+20	9,789565E+20	1,337355E+21	1,337390E+21	9,790261E+20	3,663295E+20	8,029975E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029142E+18
1617	3,662911E+20	9,790058E+20	1,337389E+21	1,337370E+21	9,789452E+20	3,662384E+20	8,024497E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026668E+18
1618	3,663198E+20	9,789840E+20	1,337313E+21	1,337291E+21	9,789436E+20	3,662983E+20	8,026206E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024135E+18
1619	3,662121E+20	9,788802E+20	1,337284E+21	1,337310E+21	9,789501E+20	3,662826E+20	8,030912E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029727E+18
1620	3,662734E+20	9,789047E+20	1,337247E+21	1,337226E+21	9,788454E+20	3,662134E+20	8,024286E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026673E+18
1621	3,662523E+20	9,788258E+20	1,337125E+21	1,337149E+21	9,788634E+20	3,662828E+20	8,030323E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026800E+18
1622	3,661871E+20	9,787932E+20	1,337137E+21	1,337142E+21	9,788113E+20	3,662055E+20	8,028225E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031541E+18
1623	3,662677E+20	9,788257E+20	1,337101E+21	1,337053E+21	9,787339E+20	3,661934E+20	8,025373E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025996E+18
1624	3,661964E+20	9,787380E+20	1,337046E+21	1,337077E+21	9,787999E+20	3,662554E+20	8,031631E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028514E+18
1625	3,661898E+20	9,787732E+20	1,337103E+21	1,337100E+21	9,787546E+20	3,661711E+20	8,027030E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030566E+18
1626	3,662559E+20	9,787946E+20	1,337066E+21	1,337047E+21	9,787634E+20	3,662278E+20	8,027655E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024374E+18
1627	3,661714E+20	9,787337E+20	1,337081E+21	1,337126E+21	9,788314E+20	3,662523E+20	8,031110E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030940E+18
1628	3,662395E+20	9,788345E+20	1,337150E+21	1,337135E+21	9,787856E+20	3,661869E+20	8,025927E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027504E+18
1629	3,662619E+20	9,788409E+20	1,337135E+21	1,337135E+21	9,788525E+20	3,662770E+20	8,028172E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024671E+18
1630	3,661935E+20	9,788349E+20	1,337220E+21	1,337232E+21	9,788826E+20	3,662455E+20	8,029451E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031319E+18
1631	3,662863E+20	9,789115E+20	1,337251E+21	1,337225E+21	9,788509E+20	3,662231E+20	8,024391E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024222E+18
1632	3,662529E+20	9,788659E+20	1,337210E+21	1,337250E+21	9,789380E+20	3,663070E+20	8,029091E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027819E+18
1633	3,662324E+20	9,788994E+20	1,337278E+21	1,337288E+21	9,789119E+20	3,662328E+20	8,027418E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029786E+18
1634	3,663145E+20	9,789468E+20	1,337263E+21	1,337221E+21	9,788757E+20	3,662558E+20	8,024054E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023751E+18
1635	3,662272E+20	9,788570E+20	1,337227E+21	1,337256E+21	9,789220E+20	3,662944E+20	8,031323E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029228E+18
1636	3,662459E+20	9,788971E+20	1,337252E+21	1,337237E+21	9,788515E+20	3,662048E+20	8,025659E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027237E+18
1637	3,662719E+20	9,788619E+20	1,337160E+21	1,337143E+21	9,788418E+20	3,662640E+20	8,027497E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025489E+18
1638	3,661762E+20	9,787652E+20	1,337123E+21	1,337149E+21	9,788344E+20	3,662396E+20	8,031313E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031307E+18
1639	3,662418E+20	9,787996E+20	1,337093E+21	1,337067E+21	9,787298E+20	3,661677E+20	8,024477E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027933E+18
1640	3,662193E+20	9,787253E+20	1,336980E+21	1,336993E+21	9,787471E+20	3,662406E+20	8,030845E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027747E+18
1641	3,661528E+20	9,786926E+20	1,337005E+21	1,337011E+21	9,787105E+20	3,661707E+20	8,029356E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031821E+18
1642	3,662272E+20	9,787295E+20	1,336979E+21	1,336932E+21	9,786414E+20	3,661613E+20	8,026764E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026050E+18
1643	3,661519E+20	9,786249E+20	1,336906E+21	1,336948E+21	9,787083E+20	3,662246E+20	8,032922E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029085E+18
1644	3,661534E+20	9,786714E+20	1,336963E+21	1,336965E+21	9,786693E+20	3,661432E+20	8,028035E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031512E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
1645	3,662236E+20	9,787019E+20	1,336936E+21	1,336910E+21	9,786684E+20	3,661965E+20	8,028394E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025517E+18
1646	3,661476E+20	9,786568E+20	1,336965E+21	1,336997E+21	9,787310E+20	3,662143E+20	8,031296E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031860E+18
1647	3,662107E+20	9,787557E+20	1,337044E+21	1,337022E+21	9,786961E+20	3,661501E+20	8,026179E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027966E+18
1648	3,662272E+20	9,787496E+20	1,337022E+21	1,337025E+21	9,787680E+20	3,662440E+20	8,028509E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025772E+18
1649	3,661634E+20	9,787377E+20	1,337098E+21	1,337126E+21	9,788079E+20	3,662185E+20	8,030294E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032074E+18
1650	3,662573E+20	9,788246E+20	1,337130E+21	1,337103E+21	9,787663E+20	3,661945E+20	8,025081E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024841E+18
1651	3,662222E+20	9,787732E+20	1,337078E+21	1,337117E+21	9,788406E+20	3,662739E+20	8,029932E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028392E+18
1652	3,662015E+20	9,788155E+20	1,337153E+21	1,337152E+21	9,788179E+20	3,662021E+20	8,028362E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030109E+18
1653	3,662753E+20	9,788525E+20	1,337140E+21	1,337088E+21	9,787746E+20	3,662226E+20	8,025308E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024572E+18
1654	3,661909E+20	9,787575E+20	1,337095E+21	1,337124E+21	9,788176E+20	3,662540E+20	8,032055E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030166E+18
1655	3,662070E+20	9,787863E+20	1,337106E+21	1,337097E+21	9,787509E+20	3,661649E+20	8,026192E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028583E+18
1656	3,662347E+20	9,787460E+20	1,337002E+21	1,336988E+21	9,787313E+20	3,662238E+20	8,028090E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027201E+18
1657	3,661464E+20	9,786566E+20	1,336969E+21	1,336998E+21	9,787250E+20	3,662014E+20	8,032091E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032058E+18
1658	3,662052E+20	9,787015E+20	1,336954E+21	1,336915E+21	9,786167E+20	3,661298E+20	8,025601E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028097E+18
1659	3,661728E+20	9,786117E+20	1,336836E+21	1,336847E+21	9,786351E+20	3,662024E+20	8,032182E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027745E+18
1660	3,661069E+20	9,785808E+20	1,336859E+21	1,336870E+21	9,786141E+20	3,661385E+20	8,030618E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032323E+18
1661	3,661817E+20	9,786141E+20	1,336832E+21	1,336791E+21	9,785445E+20	3,661288E+20	8,027995E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027332E+18
1662	3,661230E+20	9,785275E+20	1,336765E+21	1,336808E+21	9,786046E+20	3,661841E+20	8,033009E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030495E+18
1663	3,661283E+20	9,785868E+20	1,336836E+21	1,336834E+21	9,785731E+20	3,661048E+20	8,028096E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032684E+18
1664	3,661970E+20	9,786213E+20	1,336822E+21	1,336788E+21	9,785744E+20	3,661612E+20	8,028472E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026593E+18
1665	3,661218E+20	9,785752E+20	1,336860E+21	1,336895E+21	9,786499E+20	3,661855E+20	8,032050E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032148E+18
1666	3,661765E+20	9,786721E+20	1,336939E+21	1,336922E+21	9,786204E+20	3,661234E+20	8,027145E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028070E+18
1667	3,661892E+20	9,786490E+20	1,336894E+21	1,336909E+21	9,786850E+20	3,662163E+20	8,029480E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026457E+18
1668	3,661338E+20	9,786485E+20	1,336963E+21	1,336993E+21	9,787230E+20	3,661929E+20	8,031319E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032777E+18
1669	3,662268E+20	9,787393E+20	1,337005E+21	1,336969E+21	9,786689E+20	3,661632E+20	8,026056E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025867E+18
1670	3,661974E+20	9,786960E+20	1,336961E+21	1,336985E+21	9,787340E+20	3,662334E+20	8,030389E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029064E+18
1671	3,661670E+20	9,787279E+20	1,337038E+21	1,337033E+21	9,787210E+20	3,661644E+20	8,028962E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030693E+18
1672	3,662342E+20	9,787469E+20	1,337010E+21	1,336964E+21	9,786785E+20	3,661852E+20	8,025903E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025915E+18
1673	3,661541E+20	9,786420E+20	1,336948E+21	1,336992E+21	9,787254E+20	3,662216E+20	8,033006E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030941E+18
1674	3,661689E+20	9,786773E+20	1,336956E+21	1,336952E+21	9,786490E+20	3,661298E+20	8,027015E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029306E+18
1675	3,661936E+20	9,786296E+20	1,336839E+21	1,336828E+21	9,786157E+20	3,661852E+20	8,029253E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027697E+18
1676	3,661078E+20	9,785520E+20	1,336814E+21	1,336836E+21	9,786138E+20	3,661673E+20	8,033302E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032289E+18
1677	3,661591E+20	9,785916E+20	1,336810E+21	1,336766E+21	9,785031E+20	3,660930E+20	8,027135E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029028E+18
1678	3,661358E+20	9,785060E+20	1,336691E+21	1,336704E+21	9,785229E+20	3,661573E+20	8,032679E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028858E+18
1679	3,660723E+20	9,784775E+20	1,336717E+21	1,336732E+21	9,785124E+20	3,660982E+20	8,030893E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034033E+18
1680	3,661528E+20	9,785161E+20	1,336692E+21	1,336653E+21	9,784418E+20	3,660889E+20	8,028143E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029140E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
1681	3,661011E+20	9,784431E+20	1,336643E+21	1,336685E+21	9,785116E+20	3,661500E+20	8,033366E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031114E+18
1682	3,660980E+20	9,785101E+20	1,336731E+21	1,336721E+21	9,784853E+20	3,660750E+20	8,029016E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032519E+18
1683	3,661544E+20	9,785236E+20	1,336705E+21	1,336678E+21	9,784892E+20	3,661332E+20	8,029688E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026444E+18
1684	3,660823E+20	9,784790E+20	1,336731E+21	1,336777E+21	9,785750E+20	3,661637E+20	8,033395E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032354E+18
1685	3,661357E+20	9,785700E+20	1,336807E+21	1,336798E+21	9,785369E+20	3,660985E+20	8,028444E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029171E+18
1686	3,661654E+20	9,785646E+20	1,336765E+21	1,336778E+21	9,785867E+20	3,661777E+20	8,029589E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027679E+18
1687	3,661110E+20	9,785744E+20	1,336846E+21	1,336867E+21	9,786256E+20	3,661558E+20	8,031613E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033748E+18
1688	3,661985E+20	9,786599E+20	1,336893E+21	1,336849E+21	9,785725E+20	3,661265E+20	8,026368E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026952E+18
1689	3,661673E+20	9,786097E+20	1,336852E+21	1,336879E+21	9,786459E+20	3,662004E+20	8,031264E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029413E+18
1690	3,661274E+20	9,786291E+20	1,336915E+21	1,336917E+21	9,786350E+20	3,661336E+20	8,030003E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030998E+18
1691	3,661885E+20	9,786262E+20	1,336853E+21	1,336825E+21	9,785818E+20	3,661526E+20	8,027030E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026970E+18
1692	3,661192E+20	9,785335E+20	1,336781E+21	1,336828E+21	9,786209E+20	3,661899E+20	8,034170E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031693E+18
1693	3,661291E+20	9,785682E+20	1,336799E+21	1,336789E+21	9,785310E+20	3,660921E+20	8,028199E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030524E+18
1694	3,661605E+20	9,785296E+20	1,336691E+21	1,336669E+21	9,784880E+20	3,661357E+20	8,029792E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028456E+18
1695	3,660681E+20	9,784486E+20	1,336674E+21	1,336691E+21	9,784971E+20	3,661218E+20	8,033807E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033258E+18
1696	3,661174E+20	9,784790E+20	1,336664E+21	1,336626E+21	9,783969E+20	3,660508E+20	8,027654E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030667E+18
1697	3,661029E+20	9,783999E+20	1,336551E+21	1,336572E+21	9,784259E+20	3,661208E+20	8,033231E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029864E+18
1698	3,660410E+20	9,783843E+20	1,336586E+21	1,336601E+21	9,784180E+20	3,660653E+20	8,031578E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034642E+18
1699	3,661158E+20	9,784171E+20	1,336557E+21	1,336522E+21	9,783482E+20	3,660579E+20	8,029278E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029395E+18
1700	3,660669E+20	9,783557E+20	1,336515E+21	1,336555E+21	9,784261E+20	3,661260E+20	8,034680E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030895E+18
1701	3,660530E+20	9,784114E+20	1,336611E+21	1,336605E+21	9,783994E+20	3,660492E+20	8,030673E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033031E+18
1702	3,661196E+20	9,784271E+20	1,336575E+21	1,336557E+21	9,783977E+20	3,660971E+20	8,030248E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027288E+18
1703	3,660527E+20	9,783896E+20	1,336603E+21	1,336651E+21	9,784844E+20	3,661299E+20	8,033763E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033936E+18
1704	3,661127E+20	9,784882E+20	1,336682E+21	1,336669E+21	9,784414E+20	3,660620E+20	8,028568E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030890E+18
1705	3,661474E+20	9,784952E+20	1,336659E+21	1,336662E+21	9,784953E+20	3,661424E+20	8,029854E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028397E+18
1706	3,660834E+20	9,785041E+20	1,336750E+21	1,336761E+21	9,785398E+20	3,661242E+20	8,032375E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033625E+18
1707	3,661552E+20	9,785602E+20	1,336772E+21	1,336740E+21	9,784886E+20	3,660963E+20	8,027517E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027165E+18
1708	3,661257E+20	9,785051E+20	1,336710E+21	1,336750E+21	9,785656E+20	3,661759E+20	8,032713E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029682E+18
1709	3,660815E+20	9,785120E+20	1,336764E+21	1,336776E+21	9,785396E+20	3,661046E+20	8,031393E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032217E+18
1710	3,661565E+20	9,785203E+20	1,336695E+21	1,336666E+21	9,784656E+20	3,661081E+20	8,027420E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028324E+18
1711	3,660887E+20	9,784387E+20	1,336633E+21	1,336668E+21	9,785012E+20	3,661457E+20	8,034590E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032883E+18
1712	3,660943E+20	9,784684E+20	1,336657E+21	1,336636E+21	9,784117E+20	3,660473E+20	8,028639E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031921E+18
1713	3,661250E+20	9,784291E+20	1,336562E+21	1,336537E+21	9,783800E+20	3,660930E+20	8,030583E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029076E+18
1714	3,660279E+20	9,783439E+20	1,336539E+21	1,336561E+21	9,783992E+20	3,660845E+20	8,034642E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033758E+18
1715	3,660726E+20	9,783595E+20	1,336508E+21	1,336486E+21	9,782996E+20	3,660175E+20	8,028941E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031642E+18
1716	3,660687E+20	9,782992E+20	1,336398E+21	1,336421E+21	9,783301E+20	3,660922E+20	8,034538E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030260E+18





1 Longitude ☉ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
1753	3,660080E+20	9,781602E+20	1,336224E+21	1,336189E+21	9,780794E+20	3,659325E+20	8,030051E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033697E+18
1754	3,660004E+20	9,781116E+20	1,336140E+21	1,336142E+21	9,781180E+20	3,660135E+20	8,035598E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031360E+18
1755	3,659210E+20	9,780701E+20	1,336178E+21	1,336197E+21	9,781241E+20	3,659665E+20	8,034731E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037054E+18
1756	3,660085E+20	9,781244E+20	1,336166E+21	1,336138E+21	9,780695E+20	3,659556E+20	8,031951E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030812E+18
1757	3,659615E+20	9,780742E+20	1,336142E+21	1,336185E+21	9,781560E+20	3,660278E+20	8,036560E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033556E+18
1758	3,659592E+20	9,781286E+20	1,336218E+21	1,336223E+21	9,781322E+20	3,659517E+20	8,032638E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036300E+18
1759	3,660449E+20	9,781928E+20	1,336231E+21	1,336193E+21	9,781363E+20	3,660032E+20	8,031831E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029568E+18
1760	3,659699E+20	9,781572E+20	1,336286E+21	1,336314E+21	9,782256E+20	3,660370E+20	8,035867E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035790E+18
1761	3,660170E+20	9,782371E+20	1,336356E+21	1,336339E+21	9,781908E+20	3,659661E+20	8,030766E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032146E+18
1762	3,660477E+20	9,782382E+20	1,336317E+21	1,336315E+21	9,782465E+20	3,660531E+20	8,032088E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030088E+18
1763	3,659707E+20	9,781963E+20	1,336354E+21	1,336386E+21	9,782796E+20	3,660356E+20	8,035335E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036524E+18
1764	3,660582E+20	9,782679E+20	1,336362E+21	1,336335E+21	9,782064E+20	3,659925E+20	8,029575E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030034E+18
1765	3,660280E+20	9,782209E+20	1,336308E+21	1,336327E+21	9,782546E+20	3,660651E+20	8,035046E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032470E+18
1766	3,659765E+20	9,782031E+20	1,336330E+21	1,336332E+21	9,782138E+20	3,659879E+20	8,033703E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034873E+18
1767	3,660468E+20	9,782211E+20	1,336283E+21	1,336235E+21	9,781433E+20	3,659912E+20	8,030431E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030491E+18
1768	3,659648E+20	9,781114E+20	1,336212E+21	1,336246E+21	9,781813E+20	3,660278E+20	8,037398E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035076E+18
1769	3,659690E+20	9,781246E+20	1,336205E+21	1,336197E+21	9,780937E+20	3,659280E+20	8,031109E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035347E+18
1770	3,660144E+20	9,781094E+20	1,336111E+21	1,336081E+21	9,780612E+20	3,659797E+20	8,033239E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031942E+18
1771	3,659139E+20	9,780114E+20	1,336084E+21	1,336110E+21	9,780806E+20	3,659765E+20	8,037326E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036931E+18
1772	3,659672E+20	9,780575E+20	1,336086E+21	1,336055E+21	9,779869E+20	3,659044E+20	8,031834E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033561E+18
1773	3,659527E+20	9,779995E+20	1,336006E+21	1,336018E+21	9,780268E+20	3,659836E+20	8,037044E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031874E+18
1774	3,658833E+20	9,779595E+20	1,336026E+21	1,336054E+21	9,780263E+20	3,659322E+20	8,035599E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038071E+18
1775	3,659787E+20	9,780341E+20	1,336032E+21	1,335997E+21	9,779670E+20	3,659194E+20	8,032453E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032286E+18
1776	3,659387E+20	9,779927E+20	1,336021E+21	1,336056E+21	9,780567E+20	3,659894E+20	8,036627E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034835E+18
1777	3,659346E+20	9,780599E+20	1,336123E+21	1,336113E+21	9,780428E+20	3,659169E+20	8,033081E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036954E+18
1778	3,660145E+20	9,781159E+20	1,336137E+21	1,336095E+21	9,780547E+20	3,659699E+20	8,032144E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029771E+18
1779	3,659315E+20	9,780553E+20	1,336160E+21	1,336206E+21	9,781529E+20	3,660119E+20	8,036739E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036258E+18
1780	3,659818E+20	9,781381E+20	1,336220E+21	1,336219E+21	9,781168E+20	3,659433E+20	8,031957E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032539E+18
1781	3,660123E+20	9,781406E+20	1,336186E+21	1,336188E+21	9,781552E+20	3,660243E+20	8,033127E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031058E+18
1782	3,659423E+20	9,781030E+20	1,336211E+21	1,336240E+21	9,781756E+20	3,660007E+20	8,036203E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037124E+18
1783	3,660258E+20	9,781822E+20	1,336237E+21	1,336192E+21	9,780948E+20	3,659543E+20	8,030334E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031096E+18
1784	3,659929E+20	9,781205E+20	1,336175E+21	1,336191E+21	9,781448E+20	3,660216E+20	8,035550E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033460E+18
1785	3,659388E+20	9,781020E+20	1,336199E+21	1,336200E+21	9,781120E+20	3,659465E+20	8,034095E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036120E+18
1786	3,660116E+20	9,781161E+20	1,336141E+21	1,336095E+21	9,780382E+20	3,659495E+20	8,030840E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031660E+18
1787	3,659289E+20	9,779984E+20	1,336053E+21	1,336092E+21	9,780767E+20	3,659929E+20	8,038242E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035916E+18
1788	3,659336E+20	9,780229E+20	1,336056E+21	1,336048E+21	9,779930E+20	3,658980E+20	8,032708E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035602E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
1789	3,659687E+20	9,780013E+20	1,335976E+21	1,335945E+21	9,779563E+20	3,659474E+20	8,034967E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032163E+18
1790	3,658691E+20	9,778936E+20	1,335929E+21	1,335963E+21	9,779739E+20	3,659402E+20	8,038543E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037192E+18
1791	3,659212E+20	9,779426E+20	1,335936E+21	1,335908E+21	9,778807E+20	3,658674E+20	8,032756E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034845E+18
1792	3,659175E+20	9,778881E+20	1,335855E+21	1,335873E+21	9,779212E+20	3,659419E+20	8,037109E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033361E+18
1793	3,658583E+20	9,778761E+20	1,335901E+21	1,335920E+21	9,779247E+20	3,658927E+20	8,035686E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039533E+18
1794	3,659571E+20	9,779629E+20	1,335926E+21	1,335880E+21	9,778743E+20	3,658827E+20	8,032659E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032868E+18
1795	3,659105E+20	9,779140E+20	1,335914E+21	1,335947E+21	9,779754E+20	3,659621E+20	8,037360E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035097E+18
1796	3,659015E+20	9,779780E+20	1,336016E+21	1,336014E+21	9,779746E+20	3,658967E+20	8,034681E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036720E+18
1797	3,659727E+20	9,780201E+20	1,336025E+21	1,335998E+21	9,779835E+20	3,659466E+20	8,033272E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030439E+18
1798	3,658995E+20	9,779548E+20	1,336016E+21	1,336072E+21	9,780641E+20	3,659825E+20	8,037602E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037111E+18
1799	3,659519E+20	9,780486E+20	1,336086E+21	1,336077E+21	9,780136E+20	3,659091E+20	8,032510E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033937E+18
1800	3,659864E+20	9,780542E+20	1,336058E+21	1,336051E+21	9,780469E+20	3,659822E+20	8,033302E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032215E+18
1801	3,659132E+20	9,780248E+20	1,336099E+21	1,336110E+21	9,780682E+20	3,659603E+20	8,036755E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037785E+18
1802	3,659895E+20	9,780901E+20	1,336119E+21	1,336073E+21	9,779962E+20	3,659145E+20	8,030880E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031580E+18
1803	3,659506E+20	9,780075E+20	1,336030E+21	1,336059E+21	9,780528E+20	3,659885E+20	8,036469E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034096E+18
1804	3,658994E+20	9,779900E+20	1,336046E+21	1,336060E+21	9,780207E+20	3,659185E+20	8,035508E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036649E+18
1805	3,659695E+20	9,780047E+20	1,335994E+21	1,335955E+21	9,779364E+20	3,659163E+20	8,032150E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032642E+18
1806	3,658921E+20	9,778872E+20	1,335889E+21	1,335930E+21	9,779634E+20	3,659561E+20	8,039393E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036340E+18
1807	3,658908E+20	9,779158E+20	1,335910E+21	1,335893E+21	9,778742E+20	3,658592E+20	8,033807E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036681E+18
1808	3,659263E+20	9,778842E+20	1,335825E+21	1,335798E+21	9,778412E+20	3,659022E+20	8,035603E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033191E+18
1809	3,658317E+20	9,777884E+20	1,335784E+21	1,335817E+21	9,778648E+20	3,658973E+20	8,038802E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038687E+18
1810	3,658909E+20	9,778451E+20	1,335795E+21	1,335766E+21	9,777753E+20	3,658254E+20	8,032963E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036261E+18
1811	3,658920E+20	9,777980E+20	1,335717E+21	1,335734E+21	9,778231E+20	3,659060E+20	8,037399E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034375E+18
1812	3,658340E+20	9,778015E+20	1,335788E+21	1,335803E+21	9,778401E+20	3,658666E+20	8,036977E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039740E+18
1813	3,659207E+20	9,778812E+20	1,335828E+21	1,335784E+21	9,777948E+20	3,658566E+20	8,034031E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032892E+18
1814	3,658715E+20	9,778171E+20	1,335789E+21	1,335834E+21	9,778957E+20	3,659353E+20	8,038469E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035081E+18
1815	3,658598E+20	9,778791E+20	1,335890E+21	1,335895E+21	9,778899E+20	3,658690E+20	8,035580E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037658E+18
1816	3,659386E+20	9,779183E+20	1,335887E+21	1,335868E+21	9,778901E+20	3,659106E+20	8,033411E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031735E+18
1817	3,658761E+20	9,778775E+20	1,335892E+21	1,335938E+21	9,779656E+20	3,659456E+20	8,037806E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038345E+18
1818	3,659283E+20	9,779748E+20	1,335973E+21	1,335953E+21	9,779164E+20	3,658724E+20	8,032866E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034621E+18
1819	3,659558E+20	9,779694E+20	1,335940E+21	1,335930E+21	9,779543E+20	3,659490E+20	8,034089E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032618E+18
1820	3,658765E+20	9,779318E+20	1,335980E+21	1,336000E+21	9,779856E+20	3,659333E+20	8,038379E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037736E+18
1821	3,659436E+20	9,779810E+20	1,335987E+21	1,335956E+21	9,779107E+20	3,658847E+20	8,032160E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032466E+18
1822	3,659119E+20	9,778924E+20	1,335865E+21	1,335903E+21	9,779486E+20	3,659541E+20	8,037596E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034953E+18
1823	3,658623E+20	9,778848E+20	1,335891E+21	1,335898E+21	9,779034E+20	3,658808E+20	8,036405E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038093E+18
1824	3,659333E+20	9,778972E+20	1,335842E+21	1,335799E+21	9,778167E+20	3,658711E+20	8,032788E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033892E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
1825	3,658565E+20	9,777898E+20	1,335748E+21	1,335778E+21	9,778446E+20	3,659113E+20	8,039961E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037277E+18
1826	3,658502E+20	9,778057E+20	1,335766E+21	1,335752E+21	9,777648E+20	3,658150E+20	8,034288E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037657E+18
1827	3,658857E+20	9,777675E+20	1,335668E+21	1,335652E+21	9,777387E+20	3,658629E+20	8,036133E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034136E+18
1828	3,657987E+20	9,776860E+20	1,335639E+21	1,335679E+21	9,777683E+20	3,658661E+20	8,039920E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039293E+18
1829	3,658560E+20	9,777535E+20	1,335670E+21	1,335643E+21	9,776846E+20	3,657953E+20	8,034186E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036916E+18
1830	3,658607E+20	9,777112E+20	1,335588E+21	1,335601E+21	9,777288E+20	3,658759E+20	8,038536E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034455E+18
1831	3,657966E+20	9,777160E+20	1,335676E+21	1,335683E+21	9,777476E+20	3,658386E+20	8,038257E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040326E+18
1832	3,658810E+20	9,777810E+20	1,335707E+21	1,335675E+21	9,777116E+20	3,658224E+20	8,034664E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033631E+18
1833	3,658391E+20	9,777280E+20	1,335664E+21	1,335711E+21	9,778083E+20	3,659009E+20	8,038689E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036350E+18
1834	3,658321E+20	9,777897E+20	1,335763E+21	1,335769E+21	9,777993E+20	3,658333E+20	8,035758E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038813E+18
1835	3,659139E+20	9,778353E+20	1,335761E+21	1,335739E+21	9,777981E+20	3,658765E+20	8,033690E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032647E+18
1836	3,658513E+20	9,778032E+20	1,335783E+21	1,335822E+21	9,778784E+20	3,659185E+20	8,039190E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038448E+18
1837	3,658905E+20	9,778891E+20	1,335868E+21	1,335849E+21	9,778337E+20	3,658446E+20	8,034220E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034846E+18
1838	3,659150E+20	9,778652E+20	1,335802E+21	1,335802E+21	9,778642E+20	3,659170E+20	8,035263E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032989E+18
1839	3,658343E+20	9,778240E+20	1,335837E+21	1,335860E+21	9,778869E+20	3,658998E+20	8,039256E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038944E+18
1840	3,659063E+20	9,778678E+20	1,335832E+21	1,335809E+21	9,778045E+20	3,658423E+20	8,032461E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034117E+18
1841	3,658832E+20	9,778006E+20	1,335720E+21	1,335746E+21	9,778331E+20	3,659105E+20	8,037955E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036336E+18
1842	3,658308E+20	9,777892E+20	1,335754E+21	1,335750E+21	9,777899E+20	3,658379E+20	8,036875E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039063E+18
1843	3,658949E+20	9,777916E+20	1,335698E+21	1,335653E+21	9,777082E+20	3,658312E+20	8,033685E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034626E+18
1844	3,658164E+20	9,776805E+20	1,335606E+21	1,335643E+21	9,777465E+20	3,658779E+20	8,041428E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037568E+18
1845	3,658052E+20	9,776904E+20	1,335619E+21	1,335616E+21	9,776680E+20	3,657818E+20	8,035547E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038578E+18
1846	3,658478E+20	9,776551E+20	1,335505E+21	1,335492E+21	9,776303E+20	3,658266E+20	8,037240E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034780E+18
1847	3,657643E+20	9,775931E+20	1,335504E+21	1,335531E+21	9,776581E+20	3,658304E+20	8,040828E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040315E+18
1848	3,658206E+20	9,776583E+20	1,335542E+21	1,335513E+21	9,775843E+20	3,657578E+20	8,035118E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037601E+18
1849	3,658262E+20	9,776274E+20	1,335474E+21	1,335479E+21	9,776348E+20	3,658398E+20	8,039085E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035108E+18
1850	3,657598E+20	9,776192E+20	1,335556E+21	1,335571E+21	9,776643E+20	3,658048E+20	8,038745E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041121E+18
1851	3,658454E+20	9,776787E+20	1,335572E+21	1,335553E+21	9,776310E+20	3,657910E+20	8,034935E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034597E+18
1852	3,658127E+20	9,776401E+20	1,335540E+21	1,335592E+21	9,777267E+20	3,658739E+20	8,039506E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037024E+18
1853	3,658036E+20	9,777083E+20	1,335649E+21	1,335655E+21	9,777185E+20	3,658063E+20	8,036711E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039368E+18
1854	3,658845E+20	9,777534E+20	1,335641E+21	1,335611E+21	9,777068E+20	3,658470E+20	8,034775E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032840E+18
1855	3,658169E+20	9,777217E+20	1,335676E+21	1,335703E+21	9,777837E+20	3,658875E+20	8,040351E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039082E+18
1856	3,658517E+20	9,777881E+20	1,335742E+21	1,335732E+21	9,777462E+20	3,658092E+20	8,034935E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035896E+18
1857	3,658837E+20	9,777739E+20	1,335668E+21	1,335664E+21	9,777658E+20	3,658776E+20	8,035534E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034609E+18
1858	3,658065E+20	9,777277E+20	1,335697E+21	1,335717E+21	9,777829E+20	3,658588E+20	8,039427E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040327E+18
1859	3,658763E+20	9,777719E+20	1,335690E+21	1,335662E+21	9,776991E+20	3,658020E+20	8,032831E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035335E+18
1860	3,658502E+20	9,777050E+20	1,335590E+21	1,335609E+21	9,777293E+20	3,658771E+20	8,039545E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036435E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
1861	3,657842E+20	9,776771E+20	1,335619E+21	1,335621E+21	9,776933E+20	3,658054E+20	8,038372E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039203E+18
1862	3,658442E+20	9,776647E+20	1,335533E+21	1,335498E+21	9,776022E+20	3,657955E+20	8,035232E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034940E+18
1863	3,657699E+20	9,775598E+20	1,335444E+21	1,335480E+21	9,776317E+20	3,658400E+20	8,042460E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038582E+18
1864	3,657655E+20	9,775735E+20	1,335458E+21	1,335460E+21	9,775571E+20	3,657404E+20	8,036208E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040014E+18
1865	3,658192E+20	9,775678E+20	1,335368E+21	1,335340E+21	9,775173E+20	3,657835E+20	8,037646E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036004E+18
1866	3,657349E+20	9,775059E+20	1,335383E+21	1,335401E+21	9,775560E+20	3,657908E+20	8,041207E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041204E+18
1867	3,657854E+20	9,775639E+20	1,335421E+21	1,335395E+21	9,774966E+20	3,657231E+20	8,035774E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038316E+18
1868	3,657909E+20	9,775296E+20	1,335356E+21	1,335371E+21	9,775573E+20	3,658126E+20	8,040106E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035576E+18
1869	3,657239E+20	9,775184E+20	1,335428E+21	1,335456E+21	9,775880E+20	3,657785E+20	8,039587E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041902E+18
1870	3,658142E+20	9,775828E+20	1,335430E+21	1,335411E+21	9,775382E+20	3,657610E+20	8,035746E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035241E+18
1871	3,657867E+20	9,775647E+20	1,335425E+21	1,335458E+21	9,776269E+20	3,658419E+20	8,040205E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037959E+18
1872	3,657742E+20	9,776265E+20	1,335539E+21	1,335538E+21	9,776272E+20	3,657730E+20	8,037605E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040041E+18
1873	3,658552E+20	9,776776E+20	1,335536E+21	1,335496E+21	9,776151E+20	3,658100E+20	8,035241E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033703E+18
1874	3,657841E+20	9,776301E+20	1,335560E+21	1,335590E+21	9,776976E+20	3,658509E+20	8,040631E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040037E+18
1875	3,658181E+20	9,776878E+20	1,335607E+21	1,335604E+21	9,776597E+20	3,657750E+20	8,035189E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037033E+18
1876	3,658540E+20	9,776794E+20	1,335541E+21	1,335537E+21	9,776754E+20	3,658470E+20	8,036555E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035335E+18
1877	3,657729E+20	9,776314E+20	1,335566E+21	1,335587E+21	9,776909E+20	3,658287E+20	8,040607E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040560E+18
1878	3,658334E+20	9,776632E+20	1,335542E+21	1,335511E+21	9,775930E+20	3,657699E+20	8,034431E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035546E+18
1879	3,658046E+20	9,775948E+20	1,335450E+21	1,335461E+21	9,776170E+20	3,658405E+20	8,041001E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036966E+18
1880	3,657367E+20	9,775493E+20	1,335456E+21	1,335470E+21	9,775856E+20	3,657654E+20	8,039327E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040386E+18
1881	3,658074E+20	9,775546E+20	1,335371E+21	1,335332E+21	9,774828E+20	3,657493E+20	8,035686E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036634E+18
1882	3,657406E+20	9,774589E+20	1,335295E+21	1,335323E+21	9,775132E+20	3,657923E+20	8,042448E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040068E+18
1883	3,657367E+20	9,774802E+20	1,335320E+21	1,335312E+21	9,774494E+20	3,656993E+20	8,036579E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041275E+18
1884	3,657876E+20	9,774776E+20	1,335253E+21	1,335221E+21	9,774226E+20	3,657508E+20	8,038892E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036334E+18
1885	3,656948E+20	9,774046E+20	1,335263E+21	1,335292E+21	9,774755E+20	3,657620E+20	8,042260E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041325E+18
1886	3,657398E+20	9,774495E+20	1,335275E+21	1,335262E+21	9,774110E+20	3,656955E+20	8,037010E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038643E+18
1887	3,657528E+20	9,774274E+20	1,335220E+21	1,335232E+21	9,774614E+20	3,657822E+20	8,040799E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036463E+18
1888	3,656927E+20	9,774210E+20	1,335291E+21	1,335322E+21	9,774954E+20	3,657460E+20	8,040244E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042945E+18
1889	3,657919E+20	9,775132E+20	1,335315E+21	1,335280E+21	9,774395E+20	3,657247E+20	8,036131E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036239E+18
1890	3,657638E+20	9,774949E+20	1,335326E+21	1,335346E+21	9,775343E+20	3,658052E+20	8,040472E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038810E+18
1891	3,657450E+20	9,775459E+20	1,335434E+21	1,335434E+21	9,775472E+20	3,657414E+20	8,038194E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040751E+18
1892	3,658234E+20	9,775882E+20	1,335429E+21	1,335397E+21	9,775398E+20	3,657826E+20	8,036223E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034346E+18
1893	3,657504E+20	9,775325E+20	1,335433E+21	1,335475E+21	9,776199E+20	3,658236E+20	8,041456E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040494E+18
1894	3,657810E+20	9,775849E+20	1,335461E+21	1,335458E+21	9,775625E+20	3,657447E+20	8,036285E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037547E+18
1895	3,658175E+20	9,775840E+20	1,335406E+21	1,335388E+21	9,775650E+20	3,658129E+20	8,037772E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036009E+18
1896	3,657317E+20	9,775201E+20	1,335421E+21	1,335444E+21	9,775855E+20	3,657929E+20	8,041851E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041168E+18



1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
1897	3,657928E+20	9,775558E+20	1,335394E+21	1,335359E+21	9,774787E+20	3,657265E+20	8,035179E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036787E+18
1898	3,657658E+20	9,774791E+20	1,335295E+21	1,335309E+21	9,775020E+20	3,657926E+20	8,041135E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038362E+18
1899	3,657022E+20	9,774368E+20	1,335296E+21	1,335311E+21	9,774720E+20	3,657209E+20	8,039323E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042010E+18
1900	3,657773E+20	9,774545E+20	1,335232E+21	1,335190E+21	9,773746E+20	3,657096E+20	8,036510E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037674E+18
1901	3,657088E+20	9,773657E+20	1,335166E+21	1,335191E+21	9,774160E+20	3,657579E+20	8,043238E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040281E+18
1902	3,656944E+20	9,773773E+20	1,335183E+21	1,335173E+21	9,773504E+20	3,656701E+20	8,038201E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041477E+18
1903	3,657436E+20	9,773734E+20	1,335125E+21	1,335091E+21	9,773270E+20	3,657208E+20	8,040319E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036738E+18
1904	3,656522E+20	9,772872E+20	1,335114E+21	1,335161E+21	9,773876E+20	3,657315E+20	8,043235E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042275E+18
1905	3,657078E+20	9,773521E+20	1,335129E+21	1,335115E+21	9,773082E+20	3,656578E+20	8,037423E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040085E+18
1906	3,657295E+20	9,773446E+20	1,335094E+21	1,335098E+21	9,773563E+20	3,657401E+20	8,040602E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037758E+18
1907	3,656709E+20	9,773480E+20	1,335178E+21	1,335198E+21	9,774001E+20	3,657117E+20	8,040638E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043798E+18
1908	3,657645E+20	9,774398E+20	1,335226E+21	1,335187E+21	9,773597E+20	3,656970E+20	8,037288E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036439E+18
1909	3,657302E+20	9,774113E+20	1,335226E+21	1,335256E+21	9,774660E+20	3,657790E+20	8,041338E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038768E+18
1910	3,657030E+20	9,774422E+20	1,335301E+21	1,335314E+21	9,774696E+20	3,657185E+20	8,039510E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040980E+18
1911	3,657863E+20	9,774908E+20	1,335298E+21	1,335268E+21	9,774496E+20	3,657537E+20	8,036985E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035247E+18
1912	3,657175E+20	9,774310E+20	1,335290E+21	1,335338E+21	9,775256E+20	3,657916E+20	8,042300E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041330E+18
1913	3,657506E+20	9,774971E+20	1,335326E+21	1,335311E+21	9,774528E+20	3,657058E+20	8,036853E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038688E+18
1914	3,657853E+20	9,774911E+20	1,335280E+21	1,335252E+21	9,774521E+20	3,657688E+20	8,038192E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037131E+18
1915	3,656964E+20	9,774163E+20	1,335279E+21	1,335304E+21	9,774797E+20	3,657524E+20	8,042337E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042265E+18
1916	3,657559E+20	9,774465E+20	1,335253E+21	1,335225E+21	9,773773E+20	3,656889E+20	8,036081E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038026E+18
1917	3,657327E+20	9,773735E+20	1,335146E+21	1,335164E+21	9,773983E+20	3,657531E+20	8,041627E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039039E+18
1918	3,656644E+20	9,773305E+20	1,335140E+21	1,335151E+21	9,773594E+20	3,656858E+20	8,040475E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042643E+18
1919	3,657385E+20	9,773569E+20	1,335099E+21	1,335045E+21	9,772637E+20	3,656747E+20	8,038000E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038136E+18
1920	3,656641E+20	9,772529E+20	1,335025E+21	1,335058E+21	9,773179E+20	3,657255E+20	8,044658E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040587E+18
1921	3,656503E+20	9,772673E+20	1,335038E+21	1,335031E+21	9,772475E+20	3,656332E+20	8,039200E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042531E+18
1922	3,657042E+20	9,772609E+20	1,334977E+21	1,334952E+21	9,772236E+20	3,656797E+20	8,040563E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038002E+18
1923	3,656225E+20	9,771858E+20	1,334964E+21	1,335016E+21	9,772865E+20	3,656935E+20	8,043250E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043661E+18
1924	3,656821E+20	9,772673E+20	1,335009E+21	1,334993E+21	9,772138E+20	3,656243E+20	8,038184E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040955E+18
1925	3,657046E+20	9,772707E+20	1,334988E+21	1,334987E+21	9,772719E+20	3,657089E+20	8,041105E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037807E+18
1926	3,656356E+20	9,772654E+20	1,335069E+21	1,335085E+21	9,773158E+20	3,656872E+20	8,042123E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043857E+18
1927	3,657270E+20	9,773526E+20	1,335118E+21	1,335082E+21	9,772810E+20	3,656713E+20	8,038538E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036808E+18
1928	3,656929E+20	9,773101E+20	1,335095E+21	1,335142E+21	9,773900E+20	3,657526E+20	8,042211E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039671E+18
1929	3,656746E+20	9,773537E+20	1,335165E+21	1,335175E+21	9,773719E+20	3,656833E+20	8,039897E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042344E+18
1930	3,657613E+20	9,774076E+20	1,335172E+21	1,335134E+21	9,773435E+20	3,657110E+20	8,036825E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036759E+18
1931	3,656927E+20	9,773480E+20	1,335162E+21	1,335203E+21	9,774221E+20	3,657533E+20	8,042678E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042279E+18
1932	3,657158E+20	9,774033E+20	1,335210E+21	1,335195E+21	9,773565E+20	3,656711E+20	8,037906E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039356E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
1933	3,657466E+20	9,773873E+20	1,335147E+21	1,335130E+21	9,773603E+20	3,657324E+20	8,038933E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037340E+18
1934	3,656504E+20	9,772987E+20	1,335120E+21	1,335151E+21	9,773755E+20	3,657205E+20	8,043638E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042716E+18
1935	3,657149E+20	9,773376E+20	1,335101E+21	1,335071E+21	9,772689E+20	3,656538E+20	8,037287E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038870E+18
1936	3,656939E+20	9,772643E+20	1,334991E+21	1,335014E+21	9,772928E+20	3,657177E+20	8,042829E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039733E+18
1937	3,656284E+20	9,772321E+20	1,334995E+21	1,334996E+21	9,772436E+20	3,656468E+20	8,041486E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043720E+18
1938	3,656996E+20	9,772533E+20	1,334964E+21	1,334910E+21	9,771526E+20	3,656310E+20	8,038723E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039322E+18
1939	3,656265E+20	9,771423E+20	1,334875E+21	1,334917E+21	9,772166E+20	3,656866E+20	8,045147E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041677E+18
1940	3,656116E+20	9,771553E+20	1,334896E+21	1,334900E+21	9,771512E+20	3,655984E+20	8,040040E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043829E+18
1941	3,656741E+20	9,771637E+20	1,334836E+21	1,334815E+21	9,771257E+20	3,656417E+20	8,040800E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038512E+18
1942	3,655900E+20	9,770952E+20	1,334827E+21	1,334869E+21	9,771831E+20	3,656626E+20	8,044318E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044131E+18
1943	3,656499E+20	9,771882E+20	1,334898E+21	1,334871E+21	9,771229E+20	3,655963E+20	8,039607E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041197E+18
1944	3,656682E+20	9,771817E+20	1,334875E+21	1,334882E+21	9,771935E+20	3,656815E+20	8,042253E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038184E+18
1945	3,656015E+20	9,771770E+20	1,334949E+21	1,334968E+21	9,772303E+20	3,656557E+20	8,042892E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044853E+18
1946	3,656954E+20	9,772610E+20	1,334997E+21	1,334967E+21	9,771929E+20	3,656338E+20	8,038475E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038201E+18
1947	3,656686E+20	9,772242E+20	1,334964E+21	1,335014E+21	9,772988E+20	3,657169E+20	8,042123E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040888E+18
1948	3,656477E+20	9,772723E+20	1,335053E+21	1,335059E+21	9,772831E+20	3,656515E+20	8,040587E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043123E+18
1949	3,657323E+20	9,773277E+20	1,335060E+21	1,335018E+21	9,772553E+20	3,656780E+20	8,037426E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036850E+18
1950	3,656523E+20	9,772514E+20	1,335033E+21	1,335073E+21	9,773267E+20	3,657255E+20	8,044381E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042362E+18
1951	3,656726E+20	9,772974E+20	1,335072E+21	1,335065E+21	9,772649E+20	3,656418E+20	8,039444E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039937E+18
1952	3,657038E+20	9,772699E+20	1,334990E+21	1,334986E+21	9,772628E+20	3,656980E+20	8,040088E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038383E+18
1953	3,656167E+20	9,771952E+20	1,334962E+21	1,334985E+21	9,772547E+20	3,656771E+20	8,044211E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044126E+18
1954	3,656827E+20	9,772400E+20	1,334957E+21	1,334919E+21	9,771474E+20	3,656057E+20	8,037593E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040449E+18
1955	3,656608E+20	9,771661E+20	1,334850E+21	1,334866E+21	9,771799E+20	3,656753E+20	8,043457E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040712E+18
1956	3,655872E+20	9,771237E+20	1,334864E+21	1,334869E+21	9,771418E+20	3,656097E+20	8,042635E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044664E+18
1957	3,656574E+20	9,771381E+20	1,334816E+21	1,334776E+21	9,770579E+20	3,655931E+20	8,039410E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039767E+18
1958	3,655824E+20	9,770231E+20	1,334711E+21	1,334760E+21	9,771123E+20	3,656536E+20	8,046133E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042363E+18
1959	3,655750E+20	9,770505E+20	1,334745E+21	1,334749E+21	9,770485E+20	3,655650E+20	8,041126E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044581E+18
1960	3,656397E+20	9,770680E+20	1,334699E+21	1,334677E+21	9,770295E+20	3,656089E+20	8,041771E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039045E+18
1961	3,655611E+20	9,770168E+20	1,334710E+21	1,334736E+21	9,770793E+20	3,656273E+20	8,045169E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044978E+18
1962	3,656183E+20	9,771067E+20	1,334794E+21	1,334764E+21	9,770327E+20	3,655595E+20	8,040219E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042200E+18
1963	3,656388E+20	9,770949E+20	1,334759E+21	1,334772E+21	9,771145E+20	3,656487E+20	8,042463E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039314E+18
1964	3,655718E+20	9,770883E+20	1,334837E+21	1,334862E+21	9,771521E+20	3,656264E+20	8,043478E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046059E+18
1965	3,656703E+20	9,771797E+20	1,334879E+21	1,334852E+21	9,771113E+20	3,656001E+20	8,038518E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038597E+18
1966	3,656368E+20	9,771408E+20	1,334842E+21	1,334881E+21	9,772060E+20	3,656895E+20	8,043272E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041146E+18
1967	3,656116E+20	9,771842E+20	1,334936E+21	1,334940E+21	9,771972E+20	3,656260E+20	8,042240E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043115E+18
1968	3,656884E+20	9,772235E+20	1,334930E+21	1,334899E+21	9,771715E+20	3,656494E+20	8,038900E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037322E+18

1 Longitude ☉	2	3	4	5	6	7	8	9	10	11	12	13
Years	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
1969	3,656136E+20	9,771453E+20	1,334888E+21	1,334927E+21	9,772226E+20	3,656883E+20	8,045341E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043457E+18
1970	3,656372E+20	9,771914E+20	1,334926E+21	1,334920E+21	9,771551E+20	3,655979E+20	8,039578E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041727E+18
1971	3,656762E+20	9,771715E+20	1,334839E+21	1,334831E+21	9,771495E+20	3,656528E+20	8,040206E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039861E+18
1972	3,655853E+20	9,771010E+20	1,334833E+21	1,334846E+21	9,771472E+20	3,656370E+20	8,044864E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045212E+18
1973	3,656480E+20	9,771450E+20	1,334829E+21	1,334787E+21	9,770459E+20	3,655655E+20	8,038261E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040839E+18
1974	3,656145E+20	9,770532E+20	1,334704E+21	1,334720E+21	9,770758E+20	3,656430E+20	8,045123E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040997E+18
1975	3,655405E+20	9,770020E+20	1,334708E+21	1,334726E+21	9,770480E+20	3,655798E+20	8,044202E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045282E+18
1976	3,656125E+20	9,770154E+20	1,334650E+21	1,334622E+21	9,769578E+20	3,655595E+20	8,040640E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040781E+18
1977	3,655506E+20	9,769216E+20	1,334554E+21	1,334591E+21	9,769899E+20	3,656108E+20	8,046650E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043588E+18
1978	3,655456E+20	9,769626E+20	1,334617E+21	1,334607E+21	9,769345E+20	3,655213E+20	8,041523E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045883E+18
1979	3,656109E+20	9,769836E+20	1,334582E+21	1,334552E+21	9,769306E+20	3,655699E+20	8,042231E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039814E+18
1980	3,655264E+20	9,769295E+20	1,334610E+21	1,334637E+21	9,769972E+20	3,655952E+20	8,045957E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045831E+18
1981	3,655850E+20	9,770155E+20	1,334678E+21	1,334660E+21	9,769615E+20	3,655291E+20	8,040668E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042405E+18
1982	3,656023E+20	9,769987E+20	1,334630E+21	1,334646E+21	9,770335E+20	3,656237E+20	8,043312E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039838E+18
1983	3,655410E+20	9,769985E+20	1,334710E+21	1,334740E+21	9,770740E+20	3,656021E+20	8,044659E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046359E+18
1984	3,656351E+20	9,770897E+20	1,334756E+21	1,334731E+21	9,770301E+20	3,655741E+20	8,039605E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039094E+18
1985	3,656065E+20	9,770572E+20	1,334723E+21	1,334746E+21	9,771031E+20	3,656548E+20	8,044201E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042016E+18
1986	3,655783E+20	9,770917E+20	1,334816E+21	1,334817E+21	9,770991E+20	3,655876E+20	8,042835E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044389E+18
1987	3,656570E+20	9,771242E+20	1,334793E+21	1,334765E+21	9,770754E+20	3,656097E+20	8,039154E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038860E+18
1988	3,655838E+20	9,770501E+20	1,334758E+21	1,334792E+21	9,771199E+20	3,656475E+20	8,045664E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044973E+18
1989	3,656108E+20	9,771015E+20	1,334791E+21	1,334778E+21	9,770517E+20	3,655558E+20	8,039667E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042405E+18
1990	3,656395E+20	9,770760E+20	1,334705E+21	1,334683E+21	9,770418E+20	3,656179E+20	8,041474E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040322E+18
1991	3,655439E+20	9,769950E+20	1,334696E+21	1,334713E+21	9,770515E+20	3,656069E+20	8,046627E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045208E+18
1992	3,655954E+20	9,770206E+20	1,334677E+21	1,334649E+21	9,769538E+20	3,655350E+20	8,039950E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041484E+18
1993	3,655689E+20	9,769288E+20	1,334538E+21	1,334554E+21	9,769604E+20	3,656038E+20	8,046202E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042010E+18
1994	3,655015E+20	9,768833E+20	1,334545E+21	1,334564E+21	9,769297E+20	3,655352E+20	8,044492E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046872E+18
1995	3,655814E+20	9,769116E+20	1,334495E+21	1,334462E+21	9,768427E+20	3,655147E+20	8,040898E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042057E+18
1996	3,655211E+20	9,768346E+20	1,334434E+21	1,334456E+21	9,768825E+20	3,655701E+20	8,047086E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044626E+18
1997	3,655164E+20	9,768808E+20	1,334507E+21	1,334491E+21	9,768436E+20	3,654857E+20	8,042181E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046095E+18
1998	3,655720E+20	9,768902E+20	1,334467E+21	1,334438E+21	9,768479E+20	3,655429E+20	8,043540E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040144E+18
1999	3,654902E+20	9,768308E+20	1,334484E+21	1,334528E+21	9,769283E+20	3,655731E+20	8,047256E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046260E+18
2000	3,655480E+20	9,769164E+20	1,334545E+21	1,334540E+21	9,768866E+20	3,655047E+20	8,041673E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043196E+18
2001	3,655753E+20	9,769140E+20	1,334501E+21	1,334504E+21	9,769312E+20	3,655891E+20	8,043751E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040852E+18
2002	3,655150E+20	9,769181E+20	1,334596E+21	1,334615E+21	9,769754E+20	3,655657E+20	8,045082E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047389E+18
2003	3,656060E+20	9,770050E+20	1,334641E+21	1,334610E+21	9,769364E+20	3,655379E+20	8,040073E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039992E+18
2004	3,655737E+20	9,769684E+20	1,334615E+21	1,334635E+21	9,770130E+20	3,656186E+20	8,044724E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043179E+18

1 Longitude ⊙ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
2005	3,655482E+20	9,769993E+20	1,334692E+21	1,334696E+21	9,770119E+20	3,655518E+20	8,043059E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044941E+18
2006	3,656220E+20	9,770254E+20	1,334656E+21	1,334625E+21	9,769769E+20	3,655766E+20	8,039998E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039615E+18
2007	3,655512E+20	9,769542E+20	1,334622E+21	1,334658E+21	9,770291E+20	3,656176E+20	8,046903E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045078E+18
2008	3,655688E+20	9,770003E+20	1,334656E+21	1,334643E+21	9,769598E+20	3,655273E+20	8,041154E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042857E+18
2009	3,655977E+20	9,769692E+20	1,334564E+21	1,334533E+21	9,769276E+20	3,655807E+20	8,042958E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041037E+18
2010	3,655008E+20	9,768760E+20	1,334546E+21	1,334570E+21	9,769433E+20	3,655668E+20	8,047498E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046399E+18
2011	3,655537E+20	9,768957E+20	1,334509E+21	1,334490E+21	9,768428E+20	3,654926E+20	8,040499E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043185E+18
2012	3,655344E+20	9,768187E+20	1,334386E+21	1,334394E+21	9,768395E+20	3,655571E+20	8,046423E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043606E+18
2013	3,654744E+20	9,767886E+20	1,334400E+21	1,334410E+21	9,768139E+20	3,654900E+20	8,044543E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047571E+18
2014	3,655454E+20	9,768179E+20	1,334363E+21	1,334318E+21	9,767343E+20	3,654786E+20	8,042111E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042474E+18
2015	3,654843E+20	9,767391E+20	1,334311E+21	1,334340E+21	9,767980E+20	3,655413E+20	8,048522E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044628E+18
2016	3,654718E+20	9,767751E+20	1,334378E+21	1,334377E+21	9,767696E+20	3,654622E+20	8,043711E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046709E+18
2017	3,655349E+20	9,767867E+20	1,334330E+21	1,334304E+21	9,767533E+20	3,655106E+20	8,044266E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041180E+18
2018	3,654615E+20	9,767361E+20	1,334352E+21	1,334397E+21	9,768320E+20	3,655372E+20	8,047369E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047506E+18
2019	3,655213E+20	9,768300E+20	1,334418E+21	1,334409E+21	9,767930E+20	3,654691E+20	8,041817E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044213E+18
2020	3,655493E+20	9,768417E+20	1,334403E+21	1,334389E+21	9,768350E+20	3,655529E+20	8,043967E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041844E+18
2021	3,654894E+20	9,768427E+20	1,334492E+21	1,334507E+21	9,768893E+20	3,655331E+20	8,045675E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047456E+18
2022	3,655690E+20	9,769135E+20	1,334525E+21	1,334498E+21	9,768557E+20	3,655115E+20	8,041289E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040487E+18
2023	3,655411E+20	9,768723E+20	1,334485E+21	1,334521E+21	9,769375E+20	3,655928E+20	8,045930E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043626E+18
2024	3,655120E+20	9,769012E+20	1,334555E+21	1,334565E+21	9,769257E+20	3,655251E+20	8,044208E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045651E+18
2025	3,655896E+20	9,769326E+20	1,334521E+21	1,334476E+21	9,768641E+20	3,655384E+20	8,040844E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040522E+18
2026	3,655165E+20	9,768578E+20	1,334491E+21	1,334521E+21	9,769195E+20	3,655785E+20	8,047669E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045818E+18
2027	3,655266E+20	9,768896E+20	1,334513E+21	1,334503E+21	9,768556E+20	3,654887E+20	8,041995E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043925E+18
2028	3,655548E+20	9,768547E+20	1,334421E+21	1,334392E+21	9,768191E+20	3,655389E+20	8,043670E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042477E+18
2029	3,654658E+20	9,767610E+20	1,334384E+21	1,334416E+21	9,768347E+20	3,655249E+20	8,047717E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047209E+18
2030	3,655148E+20	9,767820E+20	1,334347E+21	1,334327E+21	9,767273E+20	3,654535E+20	8,041365E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044274E+18
2031	3,655022E+20	9,767169E+20	1,334236E+21	1,334247E+21	9,767357E+20	3,655205E+20	8,047436E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043851E+18
2032	3,654350E+20	9,766919E+20	1,334268E+21	1,334273E+21	9,767152E+20	3,654597E+20	8,045904E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048108E+18
2033	3,655064E+20	9,767195E+20	1,334234E+21	1,334182E+21	9,766269E+20	3,654427E+20	8,043520E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043096E+18
2034	3,654467E+20	9,766376E+20	1,334182E+21	1,334219E+21	9,767059E+20	3,655067E+20	8,049161E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045661E+18
2035	3,654367E+20	9,766716E+20	1,334237E+21	1,334245E+21	9,766794E+20	3,654290E+20	8,044255E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048122E+18
2036	3,655066E+20	9,766989E+20	1,334207E+21	1,334174E+21	9,766534E+20	3,654722E+20	8,044272E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042576E+18
2037	3,654408E+20	9,766607E+20	1,334234E+21	1,334273E+21	9,767383E+20	3,655009E+20	8,047386E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047821E+18
2038	3,654878E+20	9,767476E+20	1,334307E+21	1,334292E+21	9,767034E+20	3,654405E+20	8,042951E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044396E+18
2039	3,655149E+20	9,767536E+20	1,334291E+21	1,334291E+21	9,767624E+20	3,655281E+20	8,045290E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041713E+18
2040	3,654482E+20	9,767467E+20	1,334371E+21	1,334398E+21	9,768176E+20	3,655125E+20	8,047214E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047844E+18



1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
2041	3,655328E+20	9,768142E+20	1,334389E+21	1,334364E+21	9,767597E+20	3,654798E+20	8,042207E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041433E+18
2042	3,655120E+20	9,767801E+20	1,334351E+21	1,334388E+21	9,768377E+20	3,655552E+20	8,046198E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044755E+18
2043	3,654815E+20	9,768089E+20	1,334420E+21	1,334426E+21	9,768245E+20	3,654881E+20	8,044623E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046746E+18
2044	3,655572E+20	9,768462E+20	1,334405E+21	1,334346E+21	9,767556E+20	3,654968E+20	8,041213E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041901E+18
2045	3,654853E+20	9,767622E+20	1,334360E+21	1,334390E+21	9,768179E+20	3,655390E+20	8,048231E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046219E+18
2046	3,654823E+20	9,767737E+20	1,334364E+21	1,334363E+21	9,767556E+20	3,654546E+20	8,043125E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045032E+18
2047	3,655171E+20	9,767378E+20	1,334259E+21	1,334247E+21	9,767200E+20	3,655038E+20	8,044839E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043216E+18
2048	3,654278E+20	9,766522E+20	1,334223E+21	1,334255E+21	9,767250E+20	3,654905E+20	8,048784E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048031E+18
2049	3,654786E+20	9,766802E+20	1,334196E+21	1,334161E+21	9,766012E+20	3,654110E+20	8,042475E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045148E+18
2050	3,654661E+20	9,766198E+20	1,334103E+21	1,334106E+21	9,766206E+20	3,654783E+20	8,048220E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044467E+18
2051	3,653928E+20	9,765842E+20	1,334130E+21	1,334140E+21	9,766152E+20	3,654236E+20	8,046880E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049112E+18
2052	3,654662E+20	9,766163E+20	1,334106E+21	1,334058E+21	9,765298E+20	3,654041E+20	8,044086E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044449E+18
2053	3,654165E+20	9,765388E+20	1,334043E+21	1,334087E+21	9,766127E+20	3,654704E+20	8,049235E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046199E+18
2054	3,654015E+20	9,765745E+20	1,334101E+21	1,334112E+21	9,765880E+20	3,653990E+20	8,045071E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048833E+18
2055	3,654769E+20	9,766119E+20	1,334083E+21	1,334059E+21	9,765732E+20	3,654450E+20	8,045288E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042511E+18
2056	3,654059E+20	9,765783E+20	1,334120E+21	1,334159E+21	9,766578E+20	3,654788E+20	8,048831E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047986E+18
2057	3,654508E+20	9,766571E+20	1,334190E+21	1,334175E+21	9,766128E+20	3,654114E+20	8,044362E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044927E+18
2058	3,654821E+20	9,766624E+20	1,334171E+21	1,334177E+21	9,766769E+20	3,654953E+20	8,045786E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042863E+18
2059	3,654182E+20	9,766538E+20	1,334238E+21	1,334268E+21	9,767268E+20	3,654792E+20	8,047661E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049313E+18
2060	3,655085E+20	9,767369E+20	1,334272E+21	1,334235E+21	9,766567E+20	3,654381E+20	8,042069E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043076E+18
2061	3,654916E+20	9,767067E+20	1,334235E+21	1,334261E+21	9,767383E+20	3,655154E+20	8,046283E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045182E+18
2062	3,654448E+20	9,767176E+20	1,334300E+21	1,334303E+21	9,767296E+20	3,654563E+20	8,045751E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047247E+18
2063	3,655168E+20	9,767397E+20	1,334269E+21	1,334232E+21	9,766728E+20	3,654667E+20	8,042626E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042231E+18
2064	3,654403E+20	9,766480E+20	1,334208E+21	1,334251E+21	9,767267E+20	3,655114E+20	8,049721E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046812E+18
2065	3,654395E+20	9,766529E+20	1,334196E+21	1,334197E+21	9,766377E+20	3,654163E+20	8,044259E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046108E+18
2066	3,654810E+20	9,766297E+20	1,334101E+21	1,334085E+21	9,765996E+20	3,654594E+20	8,045391E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044170E+18
2067	3,653908E+20	9,765493E+20	1,334073E+21	1,334095E+21	9,766060E+20	3,654484E+20	8,049500E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048972E+18
2068	3,654408E+20	9,765860E+20	1,334068E+21	1,334020E+21	9,764844E+20	3,653667E+20	8,043234E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046376E+18
2069	3,654314E+20	9,765220E+20	1,333972E+21	1,333978E+21	9,765216E+20	3,654383E+20	8,048804E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044902E+18
2070	3,653502E+20	9,764723E+20	1,333988E+21	1,334010E+21	9,765242E+20	3,653928E+20	8,047993E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050286E+18
2071	3,654311E+20	9,765071E+20	1,333958E+21	1,333931E+21	9,764461E+20	3,653740E+20	8,045158E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045079E+18
2072	3,653831E+20	9,764454E+20	1,333905E+21	1,333949E+21	9,765208E+20	3,654421E+20	8,050113E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046722E+18
2073	3,653663E+20	9,764816E+20	1,333970E+21	1,333971E+21	9,764831E+20	3,653653E+20	8,046211E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049325E+18
2074	3,654428E+20	9,765249E+20	1,333966E+21	1,333939E+21	9,764784E+20	3,654099E+20	8,045925E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043029E+18
2075	3,653702E+20	9,764851E+20	1,333998E+21	1,334040E+21	9,765703E+20	3,654471E+20	8,049629E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049095E+18
2076	3,654204E+20	9,765724E+20	1,334075E+21	1,334058E+21	9,765234E+20	3,653752E+20	8,044603E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046536E+18

1 Longitude ⊙ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
2077	3,654621E+20	9,765847E+20	1,334053E+21	1,334057E+21	9,765880E+20	3,654574E+20	8,045529E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043791E+18
2078	3,653916E+20	9,765732E+20	1,334121E+21	1,334147E+21	9,766387E+20	3,654475E+20	8,048177E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050181E+18
2079	3,654807E+20	9,766557E+20	1,334158E+21	1,334127E+21	9,765785E+20	3,654092E+20	8,042994E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043255E+18
2080	3,654546E+20	9,766209E+20	1,334119E+21	1,334143E+21	9,766541E+20	3,654910E+20	8,047863E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045198E+18
2081	3,653994E+20	9,766074E+20	1,334162E+21	1,334172E+21	9,766335E+20	3,654259E+20	8,047422E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047715E+18
2082	3,654743E+20	9,766257E+20	1,334118E+21	1,334089E+21	9,765721E+20	3,654305E+20	8,043592E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043392E+18
2083	3,654017E+20	9,765321E+20	1,334042E+21	1,334085E+21	9,766118E+20	3,654716E+20	8,050546E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048209E+18
2084	3,654074E+20	9,765558E+20	1,334049E+21	1,334035E+21	9,765111E+20	3,653674E+20	8,044432E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047813E+18
2085	3,654524E+20	9,765384E+20	1,333963E+21	1,333933E+21	9,764792E+20	3,654110E+20	8,045694E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044682E+18
2086	3,653491E+20	9,764455E+20	1,333939E+21	1,333959E+21	9,765000E+20	3,654104E+20	8,050525E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049673E+18
2087	3,653980E+20	9,764721E+20	1,333927E+21	1,333901E+21	9,764004E+20	3,653351E+20	8,044722E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046851E+18
2088	3,653871E+20	9,764088E+20	1,333824E+21	1,333842E+21	9,764341E+20	3,654111E+20	8,050119E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045464E+18
2089	3,653087E+20	9,763554E+20	1,333830E+21	1,333858E+21	9,764191E+20	3,653592E+20	8,049125E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051225E+18
2090	3,653970E+20	9,764077E+20	1,333814E+21	1,333785E+21	9,763430E+20	3,653366E+20	8,045668E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045908E+18
2091	3,653505E+20	9,763542E+20	1,333773E+21	1,333806E+21	9,764176E+20	3,654066E+20	8,050683E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047672E+18
2092	3,653363E+20	9,764027E+20	1,333861E+21	1,333848E+21	9,763821E+20	3,653262E+20	8,046699E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050546E+18
2093	3,654169E+20	9,764455E+20	1,333859E+21	1,333830E+21	9,763934E+20	3,653730E+20	8,046125E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043674E+18
2094	3,653399E+20	9,763985E+20	1,333883E+21	1,333929E+21	9,764914E+20	3,654179E+20	8,050263E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050380E+18
2095	3,653962E+20	9,764876E+20	1,333956E+21	1,333952E+21	9,764518E+20	3,653487E+20	8,045472E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047101E+18
2096	3,654352E+20	9,765114E+20	1,333944E+21	1,333940E+21	9,765070E+20	3,654314E+20	8,046396E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044070E+18
2097	3,653563E+20	9,764850E+20	1,334003E+21	1,334022E+21	9,765440E+20	3,654182E+20	8,049634E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050206E+18
2098	3,654391E+20	9,765590E+20	1,334038E+21	1,334008E+21	9,764896E+20	3,653776E+20	8,044040E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043657E+18
2099	3,654097E+20	9,765091E+20	1,333978E+21	1,334007E+21	9,765595E+20	3,654584E+20	8,049061E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046212E+18
2100	3,653609E+20	9,764975E+20	1,334012E+21	1,334022E+21	9,765252E+20	3,653846E+20	8,047849E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049366E+18
2101	3,654447E+20	9,765228E+20	1,333965E+21	1,333934E+21	9,764594E+20	3,653842E+20	8,043632E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044555E+18
2102	3,653693E+20	9,764319E+20	1,333895E+21	1,333930E+21	9,764968E+20	3,654287E+20	8,051025E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049305E+18
2103	3,653742E+20	9,764561E+20	1,333912E+21	1,333899E+21	9,764101E+20	3,653307E+20	8,045489E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048352E+18
2104	3,654119E+20	9,764401E+20	1,333835E+21	1,333800E+21	9,763798E+20	3,653778E+20	8,047175E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044956E+18
2105	3,653019E+20	9,763259E+20	1,333790E+21	1,333818E+21	9,763979E+20	3,653762E+20	8,052008E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050387E+18
2106	3,653550E+20	9,763548E+20	1,333771E+21	1,333754E+21	9,763022E+20	3,652997E+20	8,045649E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048143E+18
2107	3,653498E+20	9,762965E+20	1,333664E+21	1,333679E+21	9,763244E+20	3,653735E+20	8,050796E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046861E+18
2108	3,652803E+20	9,762639E+20	1,333692E+21	1,333705E+21	9,763027E+20	3,653148E+20	8,049270E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052665E+18
2109	3,653702E+20	9,763247E+20	1,333693E+21	1,333652E+21	9,762378E+20	3,652941E+20	8,045901E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046369E+18
2110	3,653161E+20	9,762648E+20	1,333659E+21	1,333689E+21	9,763256E+20	3,653724E+20	8,051326E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048482E+18
2111	3,653035E+20	9,763086E+20	1,333745E+21	1,333749E+21	9,763125E+20	3,653008E+20	8,047922E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050996E+18
2112	3,653843E+20	9,763591E+20	1,333744E+21	1,333719E+21	9,763200E+20	3,653497E+20	8,047128E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044019E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
2113	3,653068E+20	9,763066E+20	1,333759E+21	1,333807E+21	9,764056E+20	3,653905E+20	8,051323E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050844E+18
2114	3,653656E+20	9,764059E+20	1,333839E+21	1,333831E+21	9,763688E+20	3,653197E+20	8,046224E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047433E+18
2115	3,653999E+20	9,764238E+20	1,333826E+21	1,333813E+21	9,764159E+20	3,654018E+20	8,047350E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044779E+18
2116	3,653230E+20	9,763965E+20	1,333887E+21	1,333901E+21	9,764479E+20	3,653812E+20	8,050274E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051228E+18
2117	3,654056E+20	9,764610E+20	1,333909E+21	1,333883E+21	9,763967E+20	3,653387E+20	8,044333E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044754E+18
2118	3,653758E+20	9,764038E+20	1,333835E+21	1,333865E+21	9,764588E+20	3,654208E+20	8,049520E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047857E+18
2119	3,653339E+20	9,763963E+20	1,333866E+21	1,333880E+21	9,764261E+20	3,653486E+20	8,048522E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050360E+18
2120	3,654141E+20	9,764338E+20	1,333832E+21	1,333787E+21	9,763519E+20	3,653468E+20	8,044548E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045003E+18
2121	3,653284E+20	9,763279E+20	1,333758E+21	1,333784E+21	9,763837E+20	3,653902E+20	8,052358E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049484E+18
2122	3,653288E+20	9,763461E+20	1,333772E+21	1,333761E+21	9,763096E+20	3,652952E+20	8,046716E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048989E+18
2123	3,653635E+20	9,763173E+20	1,333681E+21	1,333652E+21	9,762772E+20	3,653427E+20	8,048495E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046184E+18
2124	3,652643E+20	9,762116E+20	1,333633E+21	1,333662E+21	9,762853E+20	3,653337E+20	8,052370E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051993E+18
2125	3,653235E+20	9,762505E+20	1,333620E+21	1,333600E+21	9,761910E+20	3,652555E+20	8,045789E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049330E+18
2126	3,653177E+20	9,761991E+20	1,333525E+21	1,333531E+21	9,762149E+20	3,653335E+20	8,051140E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047849E+18
2127	3,652497E+20	9,761696E+20	1,333566E+21	1,333582E+21	9,762107E+20	3,652834E+20	8,050352E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052939E+18
2128	3,653335E+20	9,762368E+20	1,333581E+21	1,333539E+21	9,761531E+20	3,652660E+20	8,047259E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046340E+18
2129	3,652758E+20	9,761630E+20	1,333533E+21	1,333572E+21	9,762400E+20	3,653440E+20	8,052638E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048994E+18
2130	3,652694E+20	9,762139E+20	1,333616E+21	1,333625E+21	9,762324E+20	3,652750E+20	8,048950E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051864E+18
2131	3,653538E+20	9,762704E+20	1,333619E+21	1,333589E+21	9,762283E+20	3,653185E+20	8,047716E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045231E+18
2132	3,652840E+20	9,762329E+20	1,333645E+21	1,333678E+21	9,763050E+20	3,653514E+20	8,051403E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051893E+18
2133	3,653380E+20	9,763282E+20	1,333733E+21	1,333716E+21	9,762778E+20	3,652820E+20	8,046386E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047951E+18
2134	3,653647E+20	9,763314E+20	1,333711E+21	1,333700E+21	9,763274E+20	3,653676E+20	8,047791E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045891E+18
2135	3,652904E+20	9,762920E+20	1,333755E+21	1,333788E+21	9,763693E+20	3,653531E+20	8,051245E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051926E+18
2136	3,653718E+20	9,763630E+20	1,333775E+21	1,333751E+21	9,763058E+20	3,653083E+20	8,045144E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045451E+18
2137	3,653410E+20	9,762999E+20	1,333688E+21	1,333717E+21	9,763503E+20	3,653837E+20	8,050451E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048472E+18
2138	3,652998E+20	9,763029E+20	1,333727E+21	1,333732E+21	9,763207E+20	3,653138E+20	8,049411E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050837E+18
2139	3,653729E+20	9,763327E+20	1,333698E+21	1,333642E+21	9,762418E+20	3,653101E+20	8,045852E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045851E+18
2140	3,652902E+20	9,762256E+20	1,333622E+21	1,333644E+21	9,762732E+20	3,653475E+20	8,053098E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050462E+18
2141	3,652891E+20	9,762341E+20	1,333625E+21	1,333621E+21	9,762084E+20	3,652548E+20	8,047293E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050363E+18
2142	3,653254E+20	9,762003E+20	1,333524E+21	1,333500E+21	9,761689E+20	3,653032E+20	8,049094E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047901E+18
2143	3,652351E+20	9,761024E+20	1,333479E+21	1,333516E+21	9,761817E+20	3,652973E+20	8,053072E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052837E+18
2144	3,652894E+20	9,761567E+20	1,333485E+21	1,333455E+21	9,760840E+20	3,652203E+20	8,046856E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049495E+18
2145	3,652748E+20	9,760940E+20	1,333390E+21	1,333394E+21	9,761082E+20	3,652983E+20	8,052458E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047802E+18
2146	3,652074E+20	9,760685E+20	1,333434E+21	1,333453E+21	9,761206E+20	3,652544E+20	8,051665E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053305E+18
2147	3,652907E+20	9,761294E+20	1,333444E+21	1,333410E+21	9,760643E+20	3,652367E+20	8,048483E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047415E+18
2148	3,652485E+20	9,760735E+20	1,333403E+21	1,333442E+21	9,761439E+20	3,653058E+20	8,052637E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050452E+18

1 Longitude ☉ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
2149	3,652473E+20	9,761360E+20	1,333497E+21	1,333503E+21	9,761411E+20	3,652378E+20	8,048932E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052940E+18
2150	3,653289E+20	9,761943E+20	1,333511E+21	1,333473E+21	9,761377E+20	3,652839E+20	8,047695E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046333E+18
2151	3,652594E+20	9,761534E+20	1,333542E+21	1,333579E+21	9,762265E+20	3,653239E+20	8,052207E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052093E+18
2152	3,653027E+20	9,762436E+20	1,333628E+21	1,333615E+21	9,762011E+20	3,652559E+20	8,047444E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047975E+18
2153	3,653238E+20	9,762262E+20	1,333578E+21	1,333579E+21	9,762409E+20	3,653391E+20	8,048978E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046540E+18
2154	3,652569E+20	9,761937E+20	1,333610E+21	1,333646E+21	9,762774E+20	3,653255E+20	8,052356E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052680E+18
2155	3,653377E+20	9,762660E+20	1,333633E+21	1,333602E+21	9,761991E+20	3,652735E+20	8,046126E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046642E+18
2156	3,653137E+20	9,762147E+20	1,333557E+21	1,333571E+21	9,762323E+20	3,653377E+20	8,050781E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049401E+18
2157	3,652649E+20	9,762093E+20	1,333601E+21	1,333599E+21	9,762127E+20	3,652713E+20	8,049918E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051607E+18
2158	3,653305E+20	9,762222E+20	1,333560E+21	1,333510E+21	9,761387E+20	3,652698E+20	8,046538E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047264E+18
2159	3,652519E+20	9,761059E+20	1,333469E+21	1,333510E+21	9,761791E+20	3,653142E+20	8,054092E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051249E+18
2160	3,652493E+20	9,761213E+20	1,333472E+21	1,333473E+21	9,761063E+20	3,652207E+20	8,048236E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051128E+18
2161	3,652841E+20	9,760833E+20	1,333361E+21	1,333341E+21	9,760540E+20	3,652650E+20	8,050294E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048407E+18
2162	3,651976E+20	9,759990E+20	1,333325E+21	1,333356E+21	9,760727E+20	3,652638E+20	8,054201E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053131E+18
2163	3,652452E+20	9,760506E+20	1,333346E+21	1,333311E+21	9,759749E+20	3,651849E+20	8,048271E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050364E+18
2164	3,652405E+20	9,759969E+20	1,333257E+21	1,333259E+21	9,760000E+20	3,652544E+20	8,052808E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048887E+18
2165	3,651758E+20	9,759744E+20	1,333304E+21	1,333326E+21	9,760263E+20	3,652167E+20	8,051926E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054843E+18
2166	3,652640E+20	9,760399E+20	1,333317E+21	1,333283E+21	9,759708E+20	3,651999E+20	8,048587E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049113E+18
2167	3,652292E+20	9,759955E+20	1,333289E+21	1,333329E+21	9,760590E+20	3,652743E+20	8,052939E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051086E+18
2168	3,652200E+20	9,760661E+20	1,333399E+21	1,333396E+21	9,760593E+20	3,652104E+20	8,049785E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052721E+18
2169	3,652883E+20	9,761024E+20	1,333400E+21	1,333368E+21	9,760546E+20	3,652567E+20	8,048897E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046232E+18
2170	3,652200E+20	9,760581E+20	1,333416E+21	1,333463E+21	9,761516E+20	3,653022E+20	8,053627E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052213E+18
2171	3,652593E+20	9,761363E+20	1,333490E+21	1,333488E+21	9,761155E+20	3,652301E+20	8,048759E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049045E+18
2172	3,652961E+20	9,761339E+20	1,333439E+21	1,333439E+21	9,761359E+20	3,652980E+20	8,049122E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047891E+18
2173	3,652318E+20	9,761109E+20	1,333481E+21	1,333507E+21	9,761717E+20	3,652847E+20	8,052568E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053770E+18
2174	3,653082E+20	9,761798E+20	1,333507E+21	1,333468E+21	9,760935E+20	3,652332E+20	8,046437E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047936E+18
2175	3,652828E+20	9,761226E+20	1,333438E+21	1,333453E+21	9,761369E+20	3,653022E+20	8,051721E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049823E+18
2176	3,652245E+20	9,761082E+20	1,333474E+21	1,333477E+21	9,761205E+20	3,652393E+20	8,051097E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051922E+18
2177	3,652825E+20	9,760977E+20	1,333402E+21	1,333369E+21	9,760388E+20	3,652366E+20	8,047948E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048248E+18
2178	3,652139E+20	9,759923E+20	1,333299E+21	1,333344E+21	9,760734E+20	3,652820E+20	8,055291E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052001E+18
2179	3,652076E+20	9,760074E+20	1,333309E+21	1,333306E+21	9,759872E+20	3,651827E+20	8,049448E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052356E+18
2180	3,652506E+20	9,759836E+20	1,333212E+21	1,333181E+21	9,759272E+20	3,652159E+20	8,050726E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049221E+18
2181	3,651607E+20	9,759005E+20	1,333189E+21	1,333214E+21	9,759588E+20	3,652198E+20	8,054669E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054060E+18
2182	3,652057E+20	9,759444E+20	1,333208E+21	1,333179E+21	9,758744E+20	3,651451E+20	8,048850E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051848E+18
2183	3,652096E+20	9,758969E+20	1,333127E+21	1,333139E+21	9,759125E+20	3,652209E+20	8,053320E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049784E+18
2184	3,651467E+20	9,758886E+20	1,333184E+21	1,333206E+21	9,759396E+20	3,651868E+20	8,052590E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055343E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
2185	3,652295E+20	9,759488E+20	1,333193E+21	1,333164E+21	9,758844E+20	3,651710E+20	8,049611E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049301E+18
2186	3,651973E+20	9,759155E+20	1,333171E+21	1,333208E+21	9,759792E+20	3,652519E+20	8,054157E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050859E+18
2187	3,651770E+20	9,759720E+20	1,333285E+21	1,333285E+21	9,759774E+20	3,651862E+20	8,051404E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053114E+18
2188	3,652535E+20	9,760091E+20	1,333276E+21	1,333250E+21	9,759650E+20	3,652204E+20	8,049371E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047214E+18
2189	3,651903E+20	9,759665E+20	1,333285E+21	1,333335E+21	9,760602E+20	3,652673E+20	8,054009E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053819E+18
2190	3,652345E+20	9,760474E+20	1,333357E+21	1,333352E+21	9,760157E+20	3,651918E+20	8,048815E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050992E+18
2191	3,652773E+20	9,760570E+20	1,333322E+21	1,333312E+21	9,760367E+20	3,652594E+20	8,049378E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048789E+18
2192	3,652033E+20	9,760357E+20	1,333375E+21	1,333388E+21	9,760756E+20	3,652497E+20	8,053339E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053728E+18
2193	3,652637E+20	9,760767E+20	1,333380E+21	1,333349E+21	9,759999E+20	3,651999E+20	8,047747E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048239E+18
2194	3,652385E+20	9,760117E+20	1,333289E+21	1,333316E+21	9,760486E+20	3,652750E+20	8,053339E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050079E+18
2195	3,651752E+20	9,759826E+20	1,333313E+21	1,333328E+21	9,760205E+20	3,652084E+20	8,052558E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053200E+18
2196	3,652472E+20	9,759846E+20	1,333235E+21	1,333202E+21	9,759175E+20	3,651898E+20	8,048369E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049703E+18
2197	3,651820E+20	9,758916E+20	1,333145E+21	1,333179E+21	9,759509E+20	3,652364E+20	8,055616E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053197E+18
2198	3,651722E+20	9,759051E+20	1,333164E+21	1,333151E+21	9,758678E+20	3,651380E+20	8,049882E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053747E+18
2199	3,652157E+20	9,758835E+20	1,333083E+21	1,333051E+21	9,758217E+20	3,651747E+20	8,051531E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049708E+18
2200	3,651222E+20	9,758018E+20	1,333063E+21	1,333092E+21	9,758656E+20	3,651851E+20	8,055554E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054438E+18
2201	3,651629E+20	9,758324E+20	1,333063E+21	1,333049E+21	9,757851E+20	3,651153E+20	8,050216E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052688E+18
2202	3,651782E+20	9,758041E+20	1,332986E+21	1,333000E+21	9,758254E+20	3,651948E+20	8,054455E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050214E+18
2203	3,651107E+20	9,757969E+20	1,333059E+21	1,333077E+21	9,758471E+20	3,651591E+20	8,053928E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056134E+18
2204	3,651987E+20	9,758640E+20	1,333074E+21	1,333040E+21	9,757871E+20	3,651326E+20	8,050097E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049805E+18
2205	3,651634E+20	9,758294E+20	1,333056E+21	1,333091E+21	9,758896E+20	3,652168E+20	8,054549E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051807E+18
2206	3,651423E+20	9,758728E+20	1,333156E+21	1,333165E+21	9,758926E+20	3,651524E+20	8,051776E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054629E+18
2207	3,652271E+20	9,759189E+20	1,333155E+21	1,333134E+21	9,758807E+20	3,651868E+20	8,049574E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048390E+18
2208	3,651682E+20	9,758915E+20	1,333172E+21	1,333214E+21	9,759691E+20	3,652335E+20	8,054437E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054359E+18
2209	3,652031E+20	9,759620E+20	1,333235E+21	1,333227E+21	9,759251E+20	3,651616E+20	8,049818E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051395E+18
2210	3,652462E+20	9,759779E+20	1,333205E+21	1,333187E+21	9,759499E+20	3,652325E+20	8,050718E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048734E+18
2211	3,651584E+20	9,759347E+20	1,333252E+21	1,333267E+21	9,759851E+20	3,652210E+20	8,055006E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054235E+18
2212	3,652231E+20	9,759671E+20	1,333236E+21	1,333213E+21	9,759013E+20	3,651598E+20	8,048429E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049457E+18
2213	3,652016E+20	9,759025E+20	1,333135E+21	1,333162E+21	9,759408E+20	3,652352E+20	8,053974E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051734E+18
2214	3,651421E+20	9,758706E+20	1,333151E+21	1,333164E+21	9,759035E+20	3,651646E+20	8,052843E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055051E+18
2215	3,652168E+20	9,758856E+20	1,333094E+21	1,333050E+21	9,758005E+20	3,651450E+20	8,048923E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050627E+18
2216	3,651462E+20	9,757963E+20	1,333015E+21	1,333036E+21	9,758368E+20	3,651944E+20	8,056426E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053188E+18
2217	3,651230E+20	9,757876E+20	1,333019E+21	1,333014E+21	9,757653E+20	3,651027E+20	8,051320E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054200E+18
2218	3,651718E+20	9,757707E+20	1,332931E+21	1,332907E+21	9,757306E+20	3,651455E+20	8,053079E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050013E+18
2219	3,650775E+20	9,756863E+20	1,332914E+21	1,332952E+21	9,757702E+20	3,651548E+20	8,056850E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055646E+18
2220	3,651322E+20	9,757332E+20	1,332917E+21	1,332903E+21	9,756812E+20	3,650745E+20	8,050693E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053846E+18

1 Longitude ☉ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
2221	3,651499E+20	9,757193E+20	1,332860E+21	1,332863E+21	9,757245E+20	3,651569E+20	8,054684E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051329E+18
2222	3,650806E+20	9,757080E+20	1,332940E+21	1,332952E+21	9,757512E+20	3,651226E+20	8,054265E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057342E+18
2223	3,651679E+20	9,757779E+20	1,332968E+21	1,332933E+21	9,757016E+20	3,650980E+20	8,050567E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050447E+18
2224	3,651332E+20	9,757453E+20	1,332947E+21	1,332981E+21	9,758092E+20	3,651859E+20	8,055001E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052397E+18
2225	3,651091E+20	9,757771E+20	1,333026E+21	1,333043E+21	9,758114E+20	3,651258E+20	8,052794E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055537E+18
2226	3,652030E+20	9,758402E+20	1,333029E+21	1,333002E+21	9,757966E+20	3,651607E+20	8,050629E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048737E+18
2227	3,651357E+20	9,758103E+20	1,333062E+21	1,333094E+21	9,758789E+20	3,652048E+20	8,055722E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054886E+18
2228	3,651707E+20	9,758763E+20	1,333119E+21	1,333105E+21	9,758287E+20	3,651241E+20	8,050587E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051760E+18
2229	3,652071E+20	9,758825E+20	1,333084E+21	1,333064E+21	9,758561E+20	3,651963E+20	8,051441E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049741E+18
2230	3,651187E+20	9,758206E+20	1,333107E+21	1,333132E+21	9,758902E+20	3,651845E+20	8,055539E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055706E+18
2231	3,651878E+20	9,758583E+20	1,333092E+21	1,333071E+21	9,758003E+20	3,651206E+20	8,048804E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050901E+18
2232	3,651710E+20	9,758045E+20	1,332994E+21	1,333012E+21	9,758311E+20	3,651947E+20	8,054538E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052292E+18
2233	3,651027E+20	9,757608E+20	1,332998E+21	1,333010E+21	9,757947E+20	3,651289E+20	8,053964E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055576E+18
2234	3,651773E+20	9,757828E+20	1,332948E+21	1,332900E+21	9,756963E+20	3,651121E+20	8,050605E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050632E+18
2235	3,650975E+20	9,756812E+20	1,332874E+21	1,332898E+21	9,757330E+20	3,651594E+20	8,058003E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053860E+18
2236	3,650823E+20	9,756714E+20	1,332863E+21	1,332865E+21	9,756590E+20	3,650619E+20	8,052137E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055568E+18
2237	3,651380E+20	9,756674E+20	1,332784E+21	1,332755E+21	9,756216E+20	3,651047E+20	8,053530E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051833E+18
2238	3,650506E+20	9,755887E+20	1,332770E+21	1,332802E+21	9,756615E+20	3,651133E+20	8,056911E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057363E+18
2239	3,651057E+20	9,756506E+20	1,332802E+21	1,332776E+21	9,755825E+20	3,650355E+20	8,051049E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054658E+18
2240	3,651189E+20	9,756385E+20	1,332756E+21	1,332749E+21	9,756322E+20	3,651218E+20	8,055182E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051251E+18
2241	3,650380E+20	9,756026E+20	1,332813E+21	1,332838E+21	9,756719E+20	3,650966E+20	8,055533E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057580E+18
2242	3,651304E+20	9,756792E+20	1,332836E+21	1,332812E+21	9,756288E+20	3,650764E+20	8,051929E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050603E+18
2243	3,650971E+20	9,756493E+20	1,332821E+21	1,332859E+21	9,757236E+20	3,651595E+20	8,056091E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053386E+18
2244	3,650842E+20	9,756938E+20	1,332899E+21	1,332911E+21	9,757164E+20	3,650912E+20	8,053405E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056296E+18
2245	3,651769E+20	9,757675E+20	1,332921E+21	1,332879E+21	9,757012E+20	3,651257E+20	8,051061E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049689E+18
2246	3,651055E+20	9,757245E+20	1,332950E+21	1,332977E+21	9,757860E+20	3,651687E+20	8,056178E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055789E+18
2247	3,651357E+20	9,757847E+20	1,333010E+21	1,332997E+21	9,757440E+20	3,650888E+20	8,051106E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052595E+18
2248	3,651721E+20	9,757839E+20	1,332958E+21	1,332941E+21	9,757663E+20	3,651614E+20	8,051994E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050598E+18
2249	3,650816E+20	9,757058E+20	1,332950E+21	1,332985E+21	9,757935E+20	3,651532E+20	8,056537E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056734E+18
2250	3,651556E+20	9,757576E+20	1,332938E+21	1,332914E+21	9,756968E+20	3,650884E+20	8,050048E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051525E+18
2251	3,651312E+20	9,757012E+20	1,332854E+21	1,332862E+21	9,757170E+20	3,651571E+20	8,055888E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052928E+18
2252	3,650635E+20	9,756523E+20	1,332849E+21	1,332856E+21	9,756765E+20	3,650849E+20	8,054808E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056233E+18
2253	3,651340E+20	9,756711E+20	1,332801E+21	1,332752E+21	9,755836E+20	3,650690E+20	8,051427E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051951E+18
2254	3,650584E+20	9,755626E+20	1,332717E+21	1,332748E+21	9,756245E+20	3,651162E+20	8,058248E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055490E+18
2255	3,650502E+20	9,755691E+20	1,332723E+21	1,332720E+21	9,755529E+20	3,650208E+20	8,052476E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057078E+18
2256	3,651095E+20	9,755777E+20	1,332656E+21	1,332619E+21	9,755185E+20	3,650661E+20	8,053975E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052335E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
2257	3,650150E+20	9,754906E+20	1,332638E+21	1,332671E+21	9,755682E+20	3,650835E+20	8,057936E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057587E+18
2258	3,650671E+20	9,755564E+20	1,332675E+21	1,332652E+21	9,754988E+20	3,650113E+20	8,052753E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054331E+18
2259	3,650731E+20	9,755340E+20	1,332634E+21	1,332636E+21	9,755493E+20	3,650956E+20	8,056577E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051675E+18
2260	3,650027E+20	9,754991E+20	1,332671E+21	1,332707E+21	9,755824E+20	3,650655E+20	8,056439E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058505E+18
2261	3,651019E+20	9,755916E+20	1,332707E+21	1,332679E+21	9,755327E+20	3,650426E+20	8,052415E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052084E+18
2262	3,650762E+20	9,755705E+20	1,332702E+21	1,332731E+21	9,756254E+20	3,651210E+20	8,056058E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054810E+18
2263	3,650614E+20	9,756263E+20	1,332805E+21	1,332800E+21	9,756249E+20	3,650556E+20	8,053763E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056979E+18
2264	3,651475E+20	9,756926E+20	1,332827E+21	1,332779E+21	9,756160E+20	3,650914E+20	8,051435E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049887E+18
2265	3,650653E+20	9,756210E+20	1,332823E+21	1,332865E+21	9,757092E+20	3,651422E+20	8,057221E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056169E+18
2266	3,650969E+20	9,756791E+20	1,332867E+21	1,332869E+21	9,756659E+20	3,650653E+20	8,052430E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053033E+18
2267	3,651324E+20	9,756760E+20	1,332815E+21	1,332804E+21	9,756684E+20	3,651303E+20	8,053154E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051710E+18
2268	3,650511E+20	9,756026E+20	1,332794E+21	1,332826E+21	9,756806E+20	3,651143E+20	8,057324E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057497E+18
2269	3,651209E+20	9,756625E+20	1,332800E+21	1,332760E+21	9,755778E+20	3,650472E+20	8,050801E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052734E+18
2270	3,650951E+20	9,755965E+20	1,332713E+21	1,332715E+21	9,755989E+20	3,651111E+20	8,056401E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053926E+18
2271	3,650246E+20	9,755487E+20	1,332716E+21	1,332720E+21	9,755700E+20	3,650427E+20	8,055326E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057408E+18
2272	3,650976E+20	9,755662E+20	1,332661E+21	1,332614E+21	9,754796E+20	3,650281E+20	8,052050E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052959E+18
2273	3,650212E+20	9,754495E+20	1,332559E+21	1,332598E+21	9,755227E+20	3,650823E+20	8,059147E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056335E+18
2274	3,650158E+20	9,754703E+20	1,332578E+21	1,332576E+21	9,754571E+20	3,649924E+20	8,053984E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057373E+18
2275	3,650665E+20	9,754754E+20	1,332528E+21	1,332490E+21	9,754186E+20	3,650350E+20	8,055501E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052575E+18
2276	3,649740E+20	9,753815E+20	1,332494E+21	1,332534E+21	9,754678E+20	3,650490E+20	8,059010E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057819E+18
2277	3,650236E+20	9,754493E+20	1,332537E+21	1,332519E+21	9,754021E+20	3,649772E+20	8,053631E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055462E+18
2278	3,650392E+20	9,754283E+20	1,332491E+21	1,332500E+21	9,754513E+20	3,650568E+20	8,056585E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053188E+18
2279	3,649794E+20	9,754195E+20	1,332552E+21	1,332579E+21	9,754861E+20	3,650284E+20	8,056510E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059920E+18
2280	3,650826E+20	9,755249E+20	1,332604E+21	1,332565E+21	9,754425E+20	3,650067E+20	8,052527E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052684E+18
2281	3,650494E+20	9,754946E+20	1,332596E+21	1,332623E+21	9,755442E+20	3,650930E+20	8,056739E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055140E+18
2282	3,650294E+20	9,755464E+20	1,332699E+21	1,332699E+21	9,755536E+20	3,650342E+20	8,055280E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056761E+18
2283	3,651050E+20	9,755952E+20	1,332714E+21	1,332678E+21	9,755401E+20	3,650660E+20	8,052604E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050636E+18
2284	3,650314E+20	9,755158E+20	1,332673E+21	1,332727E+21	9,756170E+20	3,651111E+20	8,058114E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057073E+18
2285	3,650644E+20	9,755815E+20	1,332722E+21	1,332719E+21	9,755584E+20	3,650292E+20	8,053036E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054598E+18
2286	3,651040E+20	9,755805E+20	1,332673E+21	1,332654E+21	9,755523E+20	3,650858E+20	8,053422E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053009E+18
2287	3,650204E+20	9,755172E+20	1,332671E+21	1,332686E+21	9,755649E+20	3,650714E+20	8,057909E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058186E+18
2288	3,650825E+20	9,755645E+20	1,332673E+21	1,332630E+21	9,754714E+20	3,650054E+20	8,051544E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053172E+18
2289	3,650498E+20	9,754781E+20	1,332562E+21	1,332577E+21	9,755017E+20	3,650756E+20	8,057402E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054519E+18
2290	3,649830E+20	9,754328E+20	1,332557E+21	1,332574E+21	9,754752E+20	3,650138E+20	8,056783E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057977E+18
2291	3,650544E+20	9,754524E+20	1,332511E+21	1,332472E+21	9,753772E+20	3,649947E+20	8,053400E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053917E+18
2292	3,649858E+20	9,753414E+20	1,332400E+21	1,332440E+21	9,754127E+20	3,650459E+20	8,060149E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056749E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
2293	3,649750E+20	9,753687E+20	1,332438E+21	1,332429E+21	9,753455E+20	3,649563E+20	8,055059E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058364E+18
2294	3,650266E+20	9,753666E+20	1,332388E+21	1,332354E+21	9,753123E+20	3,649935E+20	8,056073E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053482E+18
2295	3,649391E+20	9,752844E+20	1,332363E+21	1,332403E+21	9,753689E+20	3,650105E+20	8,059321E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059142E+18
2296	3,649951E+20	9,753588E+20	1,332409E+21	1,332391E+21	9,753078E+20	3,649401E+20	8,053898E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056689E+18
2297	3,650152E+20	9,753441E+20	1,332363E+21	1,332371E+21	9,753605E+20	3,650236E+20	8,056839E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054230E+18
2298	3,649578E+20	9,753511E+20	1,332443E+21	1,332465E+21	9,754052E+20	3,650036E+20	8,057722E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060089E+18
2299	3,650486E+20	9,754490E+20	1,332510E+21	1,332472E+21	9,753647E+20	3,649808E+20	8,053760E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052801E+18
2300	3,650132E+20	9,754030E+20	1,332476E+21	1,332513E+21	9,754637E+20	3,650651E+20	8,057825E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055153E+18
2301	3,649879E+20	9,754475E+20	1,332574E+21	1,332581E+21	9,754693E+20	3,650064E+20	8,056260E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057690E+18
2302	3,650692E+20	9,754898E+20	1,332572E+21	1,332545E+21	9,754444E+20	3,650295E+20	8,052878E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052052E+18
2303	3,650048E+20	9,754300E+20	1,332541E+21	1,332586E+21	9,755131E+20	3,650728E+20	8,058463E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058284E+18
2304	3,650372E+20	9,754983E+20	1,332597E+21	1,332585E+21	9,754540E+20	3,649896E+20	8,053430E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055331E+18
2305	3,650693E+20	9,754849E+20	1,332540E+21	1,332518E+21	9,754493E+20	3,650489E+20	8,054308E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053438E+18
2306	3,649806E+20	9,754160E+20	1,332537E+21	1,332559E+21	9,754717E+20	3,650410E+20	8,059529E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058159E+18
2307	3,650338E+20	9,754489E+20	1,332531E+21	1,332503E+21	9,753776E+20	3,649727E+20	8,052970E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054108E+18
2308	3,650093E+20	9,753578E+20	1,332391E+21	1,332416E+21	9,753930E+20	3,650388E+20	8,058505E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055468E+18
2309	3,649458E+20	9,753250E+20	1,332400E+21	1,332411E+21	9,753565E+20	3,649750E+20	8,057620E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059613E+18
2310	3,650195E+20	9,753460E+20	1,332359E+21	1,332316E+21	9,752579E+20	3,649490E+20	8,053925E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055238E+18
2311	3,649521E+20	9,752482E+20	1,332267E+21	1,332294E+21	9,752982E+20	3,650022E+20	8,060555E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057629E+18
2312	3,649363E+20	9,752654E+20	1,332305E+21	1,332298E+21	9,752432E+20	3,649150E+20	8,055574E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059144E+18
2313	3,649867E+20	9,752549E+20	1,332240E+21	1,332219E+21	9,752193E+20	3,649579E+20	8,056608E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054302E+18
2314	3,649079E+20	9,751880E+20	1,332226E+21	1,332272E+21	9,752814E+20	3,649827E+20	8,060402E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059758E+18
2315	3,649631E+20	9,752729E+20	1,332290E+21	1,332275E+21	9,752227E+20	3,649121E+20	8,055026E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057372E+18
2316	3,649881E+20	9,752651E+20	1,332243E+21	1,332246E+21	9,752715E+20	3,649942E+20	8,057731E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054421E+18
2317	3,649249E+20	9,752750E+20	1,332341E+21	1,332352E+21	9,753171E+20	3,649764E+20	8,058889E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060646E+18
2318	3,650117E+20	9,753563E+20	1,332398E+21	1,332369E+21	9,752843E+20	3,649477E+20	8,054390E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053502E+18
2319	3,649807E+20	9,753171E+20	1,332359E+21	1,332397E+21	9,753795E+20	3,650320E+20	8,058224E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056279E+18
2320	3,649579E+20	9,753547E+20	1,332444E+21	1,332456E+21	9,753800E+20	3,649720E+20	8,056629E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058773E+18
2321	3,650410E+20	9,753986E+20	1,332436E+21	1,332409E+21	9,753493E+20	3,649941E+20	8,053214E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053160E+18
2322	3,649783E+20	9,753477E+20	1,332417E+21	1,332455E+21	9,754170E+20	3,650423E+20	8,059828E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058459E+18
2323	3,649970E+20	9,754045E+20	1,332478E+21	1,332465E+21	9,753600E+20	3,649580E+20	8,054779E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055679E+18
2324	3,650263E+20	9,753743E+20	1,332393E+21	1,332378E+21	9,753491E+20	3,650128E+20	8,055560E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053776E+18
2325	3,649353E+20	9,753016E+20	1,332386E+21	1,332411E+21	9,753658E+20	3,650048E+20	8,060487E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059394E+18
2326	3,649940E+20	9,753299E+20	1,332369E+21	1,332349E+21	9,752670E+20	3,649292E+20	8,053411E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055826E+18
2327	3,649789E+20	9,752618E+20	1,332244E+21	1,332257E+21	9,752755E+20	3,649942E+20	8,058884E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056834E+18
2328	3,649140E+20	9,752285E+20	1,332262E+21	1,332264E+21	9,752442E+20	3,649328E+20	8,058109E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060563E+18



1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
2329	3,649810E+20	9,752417E+20	1,332218E+21	1,332173E+21	9,751524E+20	3,649104E+20	8,054790E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055903E+18
2330	3,649132E+20	9,751430E+20	1,332129E+21	1,332163E+21	9,752048E+20	3,649709E+20	8,061960E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057811E+18
2331	3,648921E+20	9,751543E+20	1,332165E+21	1,332171E+21	9,751546E+20	3,648848E+20	8,056850E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060008E+18
2332	3,649515E+20	9,751485E+20	1,332086E+21	1,332070E+21	9,751194E+20	3,649242E+20	8,057594E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054970E+18
2333	3,648777E+20	9,751034E+20	1,332100E+21	1,332134E+21	9,751781E+20	3,649493E+20	8,061210E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060905E+18
2334	3,649334E+20	9,751891E+20	1,332175E+21	1,332153E+21	9,751281E+20	3,648765E+20	8,055823E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058057E+18
2335	3,649579E+20	9,751916E+20	1,332143E+21	1,332135E+21	9,751825E+20	3,649594E+20	8,058198E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055028E+18
2336	3,648904E+20	9,751861E+20	1,332233E+21	1,332250E+21	9,752387E+20	3,649438E+20	8,059391E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061299E+18
2337	3,649751E+20	9,752546E+20	1,332266E+21	1,332250E+21	9,752064E+20	3,649168E+20	8,054678E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054491E+18
2338	3,649526E+20	9,752249E+20	1,332228E+21	1,332272E+21	9,752974E+20	3,650050E+20	8,059112E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056976E+18
2339	3,649272E+20	9,752662E+20	1,332321E+21	1,332334E+21	9,752940E+20	3,649430E+20	8,057578E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059414E+18
2340	3,650093E+20	9,753084E+20	1,332303E+21	1,332269E+21	9,752502E+20	3,649611E+20	8,054278E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053485E+18
2341	3,649420E+20	9,752591E+20	1,332298E+21	1,332322E+21	9,753118E+20	3,650075E+20	8,060989E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059136E+18
2342	3,649562E+20	9,752971E+20	1,332343E+21	1,332335E+21	9,752612E+20	3,649190E+20	8,055528E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056818E+18
2343	3,649916E+20	9,752761E+20	1,332253E+21	1,332233E+21	9,752439E+20	3,649707E+20	8,055979E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055357E+18
2344	3,649044E+20	9,751994E+20	1,332240E+21	1,332262E+21	9,752577E+20	3,649621E+20	8,060729E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060840E+18
2345	3,649619E+20	9,752277E+20	1,332219E+21	1,332196E+21	9,751586E+20	3,648879E+20	8,053852E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057166E+18
2346	3,649455E+20	9,751636E+20	1,332108E+21	1,332116E+21	9,751710E+20	3,649602E+20	8,060373E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056996E+18
2347	3,648680E+20	9,751164E+20	1,332126E+21	1,332135E+21	9,751473E+20	3,649002E+20	8,059585E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060737E+18
2348	3,649311E+20	9,751168E+20	1,332058E+21	1,332023E+21	9,750503E+20	3,648762E+20	8,056302E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056149E+18
2349	3,648685E+20	9,750276E+20	1,331975E+21	1,332008E+21	9,750957E+20	3,649358E+20	8,062962E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058847E+18
2350	3,648553E+20	9,750443E+20	1,332014E+21	1,332023E+21	9,750503E+20	3,648467E+20	8,057536E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061384E+18
2351	3,649265E+20	9,750707E+20	1,331963E+21	1,331931E+21	9,750148E+20	3,648836E+20	8,057870E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056100E+18
2352	3,648523E+20	9,750271E+20	1,331992E+21	1,332016E+21	9,750845E+20	3,649126E+20	8,061535E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061695E+18
2353	3,649014E+20	9,751042E+20	1,332066E+21	1,332046E+21	9,750488E+20	3,648449E+20	8,056404E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058606E+18
2354	3,649251E+20	9,751022E+20	1,332035E+21	1,332036E+21	9,751117E+20	3,649345E+20	8,059216E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055356E+18
2355	3,648544E+20	9,750883E+20	1,332111E+21	1,332143E+21	9,751679E+20	3,649199E+20	8,060344E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061966E+18
2356	3,649426E+20	9,751574E+20	1,332125E+21	1,332111E+21	9,751162E+20	3,648878E+20	8,055504E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055201E+18
2357	3,649253E+20	9,751454E+20	1,332108E+21	1,332133E+21	9,751939E+20	3,649719E+20	8,059850E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058023E+18
2358	3,648970E+20	9,751793E+20	1,332201E+21	1,332206E+21	9,751956E+20	3,649073E+20	8,058396E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060177E+18
2359	3,649780E+20	9,752273E+20	1,332190E+21	1,332144E+21	9,751496E+20	3,649208E+20	8,054820E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054368E+18
2360	3,649062E+20	9,751606E+20	1,332174E+21	1,332201E+21	9,752176E+20	3,649676E+20	8,061393E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060041E+18
2361	3,649186E+20	9,751878E+20	1,332198E+21	1,332197E+21	9,751670E+20	3,648822E+20	8,055881E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058123E+18
2362	3,649592E+20	9,751725E+20	1,332112E+21	1,332095E+21	9,751459E+20	3,649373E+20	8,057098E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056179E+18
2363	3,648684E+20	9,750960E+20	1,332099E+21	1,332123E+21	9,751602E+20	3,649295E+20	8,061838E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061266E+18
2364	3,649187E+20	9,751156E+20	1,332065E+21	1,332038E+21	9,750493E+20	3,648541E+20	8,055410E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057486E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
2365	3,648999E+20	9,750524E+20	1,331966E+21	1,331965E+21	9,750565E+20	3,649237E+20	8,061832E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057526E+18
2366	3,648213E+20	9,749906E+20	1,331966E+21	1,331986E+21	9,750405E+20	3,648608E+20	8,060585E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061843E+18
2367	3,648941E+20	9,750088E+20	1,331901E+21	1,331864E+21	9,749360E+20	3,648321E+20	8,056800E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057752E+18
2368	3,648410E+20	9,749312E+20	1,331833E+21	1,331860E+21	9,749833E+20	3,648900E+20	8,062849E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060428E+18
2369	3,648303E+20	9,749585E+20	1,331883E+21	1,331882E+21	9,749469E+20	3,648072E+20	8,057789E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062667E+18
2370	3,648999E+20	9,749909E+20	1,331858E+21	1,331820E+21	9,749268E+20	3,648527E+20	8,058882E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056351E+18
2371	3,648160E+20	9,749377E+20	1,331887E+21	1,331919E+21	9,750113E+20	3,648862E+20	8,062522E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061704E+18
2372	3,648581E+20	9,749979E+20	1,331932E+21	1,331926E+21	9,749720E+20	3,648200E+20	8,057615E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058737E+18
2373	3,648872E+20	9,750040E+20	1,331907E+21	1,331907E+21	9,750227E+20	3,649069E+20	8,059940E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056263E+18
2374	3,648235E+20	9,749904E+20	1,331975E+21	1,332012E+21	9,750772E+20	3,648885E+20	8,061022E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062983E+18
2375	3,649192E+20	9,750850E+20	1,332008E+21	1,331978E+21	9,750166E+20	3,648512E+20	8,055826E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056266E+18
2376	3,649015E+20	9,750725E+20	1,332004E+21	1,332015E+21	9,750964E+20	3,649333E+20	8,060131E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058905E+18
2377	3,648662E+20	9,750939E+20	1,332088E+21	1,332091E+21	9,751070E+20	3,648732E+20	8,058985E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060914E+18
2378	3,649442E+20	9,751318E+20	1,332073E+21	1,332036E+21	9,750681E+20	3,648907E+20	8,055906E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055037E+18
2379	3,648695E+20	9,750562E+20	1,332038E+21	1,332077E+21	9,751335E+20	3,649379E+20	8,062312E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060610E+18
2380	3,648796E+20	9,750776E+20	1,332041E+21	1,332042E+21	9,750647E+20	3,648502E+20	8,057046E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058877E+18
2381	3,649221E+20	9,750728E+20	1,331971E+21	1,331938E+21	9,750292E+20	3,649014E+20	8,058410E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057000E+18
2382	3,648271E+20	9,749819E+20	1,331948E+21	1,331974E+21	9,750495E+20	3,648921E+20	8,063073E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061891E+18
2383	3,648764E+20	9,750070E+20	1,331917E+21	1,331886E+21	9,749328E+20	3,648100E+20	8,056218E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058652E+18
2384	3,648593E+20	9,749349E+20	1,331810E+21	1,331813E+21	9,749418E+20	3,648766E+20	8,062084E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058784E+18
2385	3,647856E+20	9,748766E+20	1,331805E+21	1,331829E+21	9,749297E+20	3,648183E+20	8,060651E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063433E+18
2386	3,648653E+20	9,749111E+20	1,331764E+21	1,331727E+21	9,748326E+20	3,647945E+20	8,057642E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058656E+18
2387	3,648114E+20	9,748444E+20	1,331712E+21	1,331736E+21	9,748920E+20	3,648573E+20	8,063536E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060646E+18
2388	3,647921E+20	9,748656E+20	1,331759E+21	1,331754E+21	9,748560E+20	3,647809E+20	8,059337E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062715E+18
2389	3,648593E+20	9,748982E+20	1,331745E+21	1,331705E+21	9,748387E+20	3,648256E+20	8,060193E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056643E+18
2390	3,647759E+20	9,748300E+20	1,331753E+21	1,331803E+21	9,749324E+20	3,648588E+20	8,063478E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062462E+18
2391	3,648264E+20	9,749061E+20	1,331797E+21	1,331793E+21	9,748784E+20	3,647855E+20	8,057998E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060078E+18
2392	3,648640E+20	9,749222E+20	1,331784E+21	1,331779E+21	9,749227E+20	3,648669E+20	8,059759E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057679E+18
2393	3,648024E+20	9,749161E+20	1,331859E+21	1,331885E+21	9,749815E+20	3,648535E+20	8,061325E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063959E+18
2394	3,648929E+20	9,750090E+20	1,331911E+21	1,331878E+21	9,749318E+20	3,648215E+20	8,056901E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056569E+18
2395	3,648673E+20	9,749855E+20	1,331897E+21	1,331917E+21	9,750208E+20	3,649040E+20	8,060978E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058976E+18
2396	3,648231E+20	9,749862E+20	1,331948E+21	1,331962E+21	9,750221E+20	3,648473E+20	8,060312E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061233E+18
2397	3,649049E+20	9,750281E+20	1,331934E+21	1,331897E+21	9,749699E+20	3,648593E+20	8,056846E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056104E+18
2398	3,648345E+20	9,749481E+20	1,331886E+21	1,331931E+21	9,750312E+20	3,649027E+20	8,063200E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061521E+18
2399	3,648465E+20	9,749830E+20	1,331897E+21	1,331886E+21	9,749486E+20	3,648087E+20	8,057649E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060151E+18
2400	3,648874E+20	9,749729E+20	1,331835E+21	1,331795E+21	9,749115E+20	3,648555E+20	8,058896E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058161E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
2401	3,647901E+20	9,748723E+20	1,331798E+21	1,331825E+21	9,749379E+20	3,648497E+20	8,063552E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062966E+18
2402	3,648374E+20	9,748927E+20	1,331770E+21	1,331748E+21	9,748294E+20	3,647721E+20	8,057238E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059757E+18
2403	3,648242E+20	9,748273E+20	1,331660E+21	1,331669E+21	9,748393E+20	3,648377E+20	8,062602E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059441E+18
2404	3,647487E+20	9,747720E+20	1,331651E+21	1,331671E+21	9,748195E+20	3,647843E+20	8,061780E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064118E+18
2405	3,648296E+20	9,748206E+20	1,331638E+21	1,331588E+21	9,747265E+20	3,647612E+20	8,059033E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059107E+18
2406	3,647710E+20	9,747426E+20	1,331583E+21	1,331614E+21	9,748003E+20	3,648264E+20	8,064788E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060890E+18
2407	3,647515E+20	9,747677E+20	1,331631E+21	1,331629E+21	9,747631E+20	3,647474E+20	8,060267E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063567E+18
2408	3,648220E+20	9,747949E+20	1,331613E+21	1,331582E+21	9,747469E+20	3,647884E+20	8,060345E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057865E+18
2409	3,647480E+20	9,747340E+20	1,331612E+21	1,331668E+21	9,748400E+20	3,648240E+20	8,063467E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063826E+18
2410	3,648024E+20	9,748237E+20	1,331681E+21	1,331677E+21	9,747910E+20	3,647542E+20	8,058657E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060927E+18
2411	3,648408E+20	9,748511E+20	1,331679E+21	1,331670E+21	9,748405E+20	3,648364E+20	8,060201E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057833E+18
2412	3,647687E+20	9,748354E+20	1,331748E+21	1,331769E+21	9,748955E+20	3,648291E+20	8,062835E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063949E+18
2413	3,648559E+20	9,749238E+20	1,331803E+21	1,331769E+21	9,748485E+20	3,647951E+20	8,058263E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056939E+18
2414	3,648285E+20	9,748818E+20	1,331763E+21	1,331799E+21	9,749399E+20	3,648757E+20	8,062025E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059821E+18
2415	3,647916E+20	9,748928E+20	1,331807E+21	1,331819E+21	9,749200E+20	3,648104E+20	8,060765E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062707E+18
2416	3,648772E+20	9,749372E+20	1,331798E+21	1,331754E+21	9,748572E+20	3,648142E+20	8,056820E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057810E+18
2417	3,648074E+20	9,748567E+20	1,331746E+21	1,331784E+21	9,749202E+20	3,648617E+20	8,063574E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062529E+18
2418	3,648096E+20	9,748816E+20	1,331769E+21	1,331761E+21	9,748458E+20	3,647719E+20	8,058797E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060782E+18
2419	3,648447E+20	9,748614E+20	1,331693E+21	1,331665E+21	9,748141E+20	3,648175E+20	8,059813E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058278E+18
2420	3,647412E+20	9,747479E+20	1,331632E+21	1,331667E+21	9,748303E+20	3,648170E+20	8,064932E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063385E+18
2421	3,647945E+20	9,747795E+20	1,331613E+21	1,331589E+21	9,747177E+20	3,647368E+20	8,058544E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060662E+18
2422	3,647859E+20	9,747184E+20	1,331506E+21	1,331518E+21	9,747333E+20	3,648012E+20	8,063655E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060160E+18
2423	3,647151E+20	9,746804E+20	1,331513E+21	1,331521E+21	9,747069E+20	3,647455E+20	8,062624E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065235E+18
2424	3,647941E+20	9,747253E+20	1,331514E+21	1,331462E+21	9,746226E+20	3,647197E+20	8,059645E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060200E+18
2425	3,647365E+20	9,746416E+20	1,331448E+21	1,331488E+21	9,747080E+20	3,647899E+20	8,065098E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061912E+18
2426	3,647158E+20	9,746635E+20	1,331501E+21	1,331512E+21	9,746785E+20	3,647163E+20	8,061086E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064692E+18
2427	3,647933E+20	9,747034E+20	1,331482E+21	1,331458E+21	9,746601E+20	3,647544E+20	8,060508E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058468E+18
2428	3,647192E+20	9,746500E+20	1,331481E+21	1,331528E+21	9,747428E+20	3,647957E+20	8,064495E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064363E+18
2429	3,647734E+20	9,747504E+20	1,331574E+21	1,331557E+21	9,747014E+20	3,647274E+20	8,060011E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061237E+18
2430	3,648065E+20	9,747665E+20	1,331571E+21	1,331566E+21	9,747606E+20	3,648078E+20	8,061305E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058197E+18
2431	3,647344E+20	9,747486E+20	1,331629E+21	1,331652E+21	9,748070E+20	3,647961E+20	8,063633E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064836E+18
2432	3,648221E+20	9,748287E+20	1,331678E+21	1,331651E+21	9,747585E+20	3,647567E+20	8,058282E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058417E+18
2433	3,648017E+20	9,747892E+20	1,331625E+21	1,331663E+21	9,748431E+20	3,648380E+20	8,062056E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061092E+18
2434	3,647624E+20	9,748024E+20	1,331684E+21	1,331695E+21	9,748252E+20	3,647768E+20	8,061545E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063524E+18
2435	3,648448E+20	9,748490E+20	1,331675E+21	1,331629E+21	9,747631E+20	3,647792E+20	8,057542E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058000E+18
2436	3,647644E+20	9,747522E+20	1,331605E+21	1,331640E+21	9,748172E+20	3,648317E+20	8,065345E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062550E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
2437	3,647631E+20	9,747684E+20	1,331623E+21	1,331621E+21	9,747467E+20	3,647405E+20	8,060421E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061357E+18
2438	3,647987E+20	9,747370E+20	1,331528E+21	1,331514E+21	9,747115E+20	3,647812E+20	8,061054E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059245E+18
2439	3,647056E+20	9,746407E+20	1,331469E+21	1,331497E+21	9,747070E+20	3,647725E+20	8,065477E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064896E+18
2440	3,647629E+20	9,746820E+20	1,331469E+21	1,331436E+21	9,745963E+20	3,646886E+20	8,058839E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062369E+18
2441	3,647561E+20	9,746250E+20	1,331369E+21	1,331373E+21	9,746220E+20	3,647586E+20	8,064065E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061191E+18
2442	3,646776E+20	9,745801E+20	1,331393E+21	1,331404E+21	9,746120E+20	3,647107E+20	8,063690E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066098E+18
2443	3,647547E+20	9,746199E+20	1,331380E+21	1,331343E+21	9,745389E+20	3,646856E+20	8,060316E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060455E+18
2444	3,646946E+20	9,745306E+20	1,331297E+21	1,331345E+21	9,746160E+20	3,647620E+20	8,066118E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062448E+18
2445	3,646810E+20	9,745664E+20	1,331363E+21	1,331375E+21	9,745858E+20	3,646874E+20	8,062240E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065324E+18
2446	3,647607E+20	9,746128E+20	1,331354E+21	1,331330E+21	9,745713E+20	3,647244E+20	8,061439E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058956E+18
2447	3,646926E+20	9,745778E+20	1,331371E+21	1,331401E+21	9,746438E+20	3,647617E+20	8,065269E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065216E+18
2448	3,647438E+20	9,746736E+20	1,331474E+21	1,331452E+21	9,746116E+20	3,646913E+20	8,060595E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062233E+18
2449	3,647779E+20	9,746817E+20	1,331457E+21	1,331456E+21	9,746799E+20	3,647740E+20	8,061513E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059287E+18
2450	3,647038E+20	9,746579E+20	1,331516E+21	1,331545E+21	9,747285E+20	3,647662E+20	8,064314E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065939E+18
2451	3,647943E+20	9,747419E+20	1,331554E+21	1,331532E+21	9,746746E+20	3,647222E+20	8,058439E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058982E+18
2452	3,647680E+20	9,746987E+20	1,331493E+21	1,331522E+21	9,747448E+20	3,648085E+20	8,063315E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061423E+18
2453	3,647243E+20	9,747071E+20	1,331557E+21	1,331562E+21	9,747299E+20	3,647484E+20	8,063213E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063646E+18
2454	3,647980E+20	9,747363E+20	1,331534E+21	1,331497E+21	9,746696E+20	3,647470E+20	8,059063E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058529E+18
2455	3,647222E+20	9,746389E+20	1,331450E+21	1,331484E+21	9,747040E+20	3,647908E+20	8,066286E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063685E+18
2456	3,647246E+20	9,746534E+20	1,331465E+21	1,331463E+21	9,746296E+20	3,646938E+20	8,060589E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063307E+18
2457	3,647694E+20	9,746319E+20	1,331369E+21	1,331351E+21	9,745923E+20	3,647329E+20	8,061059E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060865E+18
2458	3,646753E+20	9,745447E+20	1,331336E+21	1,331356E+21	9,745969E+20	3,647305E+20	8,066001E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066083E+18
2459	3,647300E+20	9,745900E+20	1,331343E+21	1,331306E+21	9,744977E+20	3,646496E+20	8,059523E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062739E+18
2460	3,647125E+20	9,745196E+20	1,331234E+21	1,331235E+21	9,745231E+20	3,647286E+20	8,065697E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061306E+18
2461	3,646328E+20	9,744672E+20	1,331251E+21	1,331274E+21	9,745256E+20	3,646844E+20	8,065346E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066543E+18
2462	3,647108E+20	9,745039E+20	1,331227E+21	1,331204E+21	9,744502E+20	3,646558E+20	8,061504E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061308E+18
2463	3,646646E+20	9,744359E+20	1,331151E+21	1,331187E+21	9,745032E+20	3,647229E+20	8,066551E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063721E+18
2464	3,646549E+20	9,744846E+20	1,331241E+21	1,331241E+21	9,744805E+20	3,646469E+20	8,062552E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066658E+18
2465	3,647360E+20	9,745361E+20	1,331245E+21	1,331211E+21	9,744772E+20	3,646868E+20	8,061738E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059718E+18
2466	3,646610E+20	9,744966E+20	1,331279E+21	1,331309E+21	9,745650E+20	3,647307E+20	8,066078E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065930E+18
2467	3,647112E+20	9,745862E+20	1,331365E+21	1,331354E+21	9,745436E+20	3,646625E+20	8,061112E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062345E+18
2468	3,647408E+20	9,745857E+20	1,331329E+21	1,331331E+21	9,745992E+20	3,647495E+20	8,062482E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059793E+18
2469	3,646719E+20	9,745663E+20	1,331387E+21	1,331420E+21	9,746474E+20	3,647414E+20	8,065546E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066270E+18
2470	3,647575E+20	9,746471E+20	1,331425E+21	1,331404E+21	9,745892E+20	3,646941E+20	8,059521E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059604E+18
2471	3,647354E+20	9,746092E+20	1,331364E+21	1,331378E+21	9,746359E+20	3,647717E+20	8,064322E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062302E+18
2472	3,646882E+20	9,746069E+20	1,331426E+21	1,331430E+21	9,746249E+20	3,647073E+20	8,063830E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064977E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
2473	3,647632E+20	9,746280E+20	1,331386E+21	1,331352E+21	9,745650E+20	3,647042E+20	8,059395E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060077E+18
2474	3,646891E+20	9,745342E+20	1,331310E+21	1,331341E+21	9,745954E+20	3,647480E+20	8,066682E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065227E+18
2475	3,646966E+20	9,745585E+20	1,331322E+21	1,331314E+21	9,745212E+20	3,646509E+20	8,060781E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064152E+18
2476	3,647331E+20	9,745349E+20	1,331231E+21	1,331198E+21	9,744811E+20	3,646973E+20	8,062412E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061311E+18
2477	3,646349E+20	9,744428E+20	1,331203E+21	1,331223E+21	9,745003E+20	3,647003E+20	8,067741E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066091E+18
2478	3,646782E+20	9,744690E+20	1,331197E+21	1,331174E+21	9,744088E+20	3,646202E+20	8,061271E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063202E+18
2479	3,646671E+20	9,743992E+20	1,331076E+21	1,331081E+21	9,744155E+20	3,646917E+20	8,066692E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062236E+18
2480	3,645945E+20	9,743517E+20	1,331095E+21	1,331122E+21	9,744154E+20	3,646430E+20	8,065664E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068100E+18
2481	3,646813E+20	9,744041E+20	1,331079E+21	1,331053E+21	9,743420E+20	3,646138E+20	8,061615E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062543E+18
2482	3,646383E+20	9,743553E+20	1,331040E+21	1,331062E+21	9,744034E+20	3,646850E+20	8,066880E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064770E+18
2483	3,646293E+20	9,744108E+20	1,331140E+21	1,331132E+21	9,743959E+20	3,646142E+20	8,063165E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066800E+18
2484	3,647004E+20	9,744506E+20	1,331138E+21	1,331105E+21	9,743987E+20	3,646614E+20	8,062996E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059925E+18
2485	3,646262E+20	9,744046E+20	1,331162E+21	1,331205E+21	9,744984E+20	3,647092E+20	8,067383E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066295E+18
2486	3,646742E+20	9,744878E+20	1,331236E+21	1,331236E+21	9,744710E+20	3,646384E+20	8,062088E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063152E+18
2487	3,647138E+20	9,745004E+20	1,331199E+21	1,331188E+21	9,744956E+20	3,647135E+20	8,062868E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061039E+18
2488	3,646460E+20	9,744827E+20	1,331267E+21	1,331288E+21	9,745443E+20	3,647026E+20	8,065902E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067473E+18
2489	3,647274E+20	9,745573E+20	1,331302E+21	1,331274E+21	9,744890E+20	3,646549E+20	8,059872E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060695E+18
2490	3,647008E+20	9,745133E+20	1,331247E+21	1,331257E+21	9,745382E+20	3,647328E+20	8,064936E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063427E+18
2491	3,646546E+20	9,745056E+20	1,331290E+21	1,331298E+21	9,745311E+20	3,646698E+20	8,064157E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065560E+18
2492	3,647248E+20	9,745206E+20	1,331237E+21	1,331202E+21	9,744591E+20	3,646692E+20	8,060477E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060806E+18
2493	3,646537E+20	9,744319E+20	1,331164E+21	1,331196E+21	9,744963E+20	3,647155E+20	8,067996E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065401E+18
2494	3,646533E+20	9,744530E+20	1,331181E+21	1,331173E+21	9,744246E+20	3,646205E+20	8,062271E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064711E+18
2495	3,646915E+20	9,744282E+20	1,331088E+21	1,331045E+21	9,743645E+20	3,646591E+20	8,063870E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062028E+18
2496	3,645922E+20	9,743261E+20	1,331056E+21	1,331083E+21	9,743940E+20	3,646607E+20	8,068579E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067233E+18
2497	3,646368E+20	9,743477E+20	1,331036E+21	1,331023E+21	9,743039E+20	3,645800E+20	8,061822E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064731E+18
2498	3,646325E+20	9,742911E+20	1,330931E+21	1,330932E+21	9,743039E+20	3,646491E+20	8,066922E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063748E+18
2499	3,645694E+20	9,742620E+20	1,330958E+21	1,330977E+21	9,743093E+20	3,646023E+20	8,065745E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068773E+18
2500	3,646491E+20	9,743184E+20	1,330957E+21	1,330918E+21	9,742412E+20	3,645814E+20	8,062774E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062865E+18
2501	3,646057E+20	9,742717E+20	1,330930E+21	1,330955E+21	9,743245E+20	3,646588E+20	8,068229E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064746E+18
2502	3,645882E+20	9,743155E+20	1,331024E+21	1,331029E+21	9,743275E+20	3,645927E+20	8,064665E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067213E+18
2503	3,646654E+20	9,743546E+20	1,331011E+21	1,330981E+21	9,743102E+20	3,646308E+20	8,063654E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060924E+18
2504	3,645980E+20	9,743135E+20	1,331035E+21	1,331081E+21	9,744070E+20	3,646743E+20	8,067470E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067600E+18
2505	3,646483E+20	9,744020E+20	1,331109E+21	1,331107E+21	9,743782E+20	3,646024E+20	8,062130E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064233E+18
2506	3,646872E+20	9,744248E+20	1,331097E+21	1,331071E+21	9,743993E+20	3,646774E+20	8,063142E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062120E+18
2507	3,646198E+20	9,744039E+20	1,331157E+21	1,331174E+21	9,744546E+20	3,646698E+20	8,066600E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067502E+18
2508	3,646877E+20	9,744596E+20	1,331178E+21	1,331153E+21	9,744012E+20	3,646271E+20	8,061288E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061122E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
2509	3,646640E+20	9,744098E+20	1,331108E+21	1,331133E+21	9,744542E+20	3,647042E+20	8,066300E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063828E+18
2510	3,646141E+20	9,743971E+20	1,331140E+21	1,331155E+21	9,744355E+20	3,646399E+20	8,065362E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066393E+18
2511	3,646900E+20	9,744194E+20	1,331089E+21	1,331041E+21	9,743382E+20	3,646273E+20	8,061351E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061911E+18
2512	3,646182E+20	9,743310E+20	1,331025E+21	1,331049E+21	9,743796E+20	3,646728E+20	8,068692E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066322E+18
2513	3,646114E+20	9,743404E+20	1,331035E+21	1,331028E+21	9,743155E+20	3,645801E+20	8,063084E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065840E+18
2514	3,646475E+20	9,743124E+20	1,330947E+21	1,330907E+21	9,742570E+20	3,646177E+20	8,064637E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063366E+18
2515	3,645563E+20	9,742104E+20	1,330896E+21	1,330932E+21	9,742895E+20	3,646205E+20	8,068809E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067998E+18
2516	3,645977E+20	9,742344E+20	1,330876E+21	1,330864E+21	9,741934E+20	3,645432E+20	8,062703E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065735E+18
2517	3,646016E+20	9,741940E+20	1,330786E+21	1,330790E+21	9,742046E+20	3,646143E+20	8,067836E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064009E+18
2518	3,645332E+20	9,741720E+20	1,330833E+21	1,330848E+21	9,742169E+20	3,645743E+20	8,067033E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069254E+18
2519	3,646145E+20	9,742306E+20	1,330839E+21	1,330792E+21	9,741408E+20	3,645476E+20	8,064008E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063441E+18
2520	3,645723E+20	9,741812E+20	1,330815E+21	1,330847E+21	9,742388E+20	3,646256E+20	8,068754E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065774E+18
2521	3,645563E+20	9,742207E+20	1,330896E+21	1,330909E+21	9,742454E+20	3,645618E+20	8,065101E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068515E+18
2522	3,646389E+20	9,742726E+20	1,330898E+21	1,330862E+21	9,742182E+20	3,645950E+20	8,063613E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062381E+18
2523	3,645792E+20	9,742414E+20	1,330921E+21	1,330962E+21	9,743178E+20	3,646400E+20	8,067541E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067915E+18
2524	3,646156E+20	9,743207E+20	1,330999E+21	1,330991E+21	9,742892E+20	3,645745E+20	8,063311E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064389E+18
2525	3,646514E+20	9,743345E+20	1,330982E+21	1,330968E+21	9,743225E+20	3,646519E+20	8,064629E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061983E+18
2526	3,645757E+20	9,743007E+20	1,331027E+21	1,331058E+21	9,743769E+20	3,646471E+20	8,068212E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067826E+18
2527	3,646481E+20	9,743515E+20	1,331029E+21	1,331006E+21	9,742965E+20	3,645924E+20	8,062284E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062171E+18
2528	3,646316E+20	9,743084E+20	1,330962E+21	1,330986E+21	9,743445E+20	3,646626E+20	8,066597E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065083E+18
2529	3,645820E+20	9,742982E+20	1,330994E+21	1,331004E+21	9,743255E+20	3,645992E+20	8,065725E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067615E+18
2530	3,646556E+20	9,743270E+20	1,330965E+21	1,330905E+21	9,742250E+20	3,645840E+20	8,061863E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063314E+18
2531	3,645854E+20	9,742324E+20	1,330891E+21	1,330915E+21	9,742758E+20	3,646331E+20	8,069325E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066630E+18
2532	3,645652E+20	9,742222E+20	1,330885E+21	1,330887E+21	9,742149E+20	3,645468E+20	8,064395E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066804E+18
2533	3,646073E+20	9,741938E+20	1,330784E+21	1,330763E+21	9,741606E+20	3,645844E+20	8,065941E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063992E+18
2534	3,645175E+20	9,741005E+20	1,330735E+21	1,330774E+21	9,741837E+20	3,645876E+20	8,069854E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068869E+18
2535	3,645635E+20	9,741355E+20	1,330727E+21	1,330702E+21	9,740710E+20	3,645021E+20	8,063724E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066671E+18
2536	3,645694E+20	9,741047E+20	1,330661E+21	1,330657E+21	9,740951E+20	3,645731E+20	8,068368E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064763E+18
2537	3,644966E+20	9,740765E+20	1,330709E+21	1,330726E+21	9,741227E+20	3,645396E+20	8,067852E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070186E+18
2538	3,645778E+20	9,741378E+20	1,330727E+21	1,330684E+21	9,740542E+20	3,645125E+20	8,064537E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064627E+18
2539	3,645449E+20	9,740923E+20	1,330691E+21	1,330730E+21	9,741557E+20	3,645930E+20	8,068861E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066205E+18
2540	3,645228E+20	9,741298E+20	1,330770E+21	1,330786E+21	9,741610E+20	3,645351E+20	8,065989E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069078E+18
2541	3,646098E+20	9,741899E+20	1,330779E+21	1,330752E+21	9,741424E+20	3,645691E+20	8,064574E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062413E+18
2542	3,645447E+20	9,741585E+20	1,330806E+21	1,330846E+21	9,742374E+20	3,646179E+20	8,068992E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068076E+18
2543	3,645780E+20	9,742274E+20	1,330876E+21	1,330868E+21	9,741948E+20	3,645441E+20	8,064655E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064957E+18
2544	3,646167E+20	9,742384E+20	1,330855E+21	1,330847E+21	9,742304E+20	3,646160E+20	8,065169E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063177E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
2545	3,645429E+20	9,741999E+20	1,330884E+21	1,330918E+21	9,742778E+20	3,646105E+20	8,068666E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069292E+18
2546	3,646203E+20	9,742653E+20	1,330901E+21	1,330867E+21	9,741862E+20	3,645483E+20	8,062243E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063990E+18
2547	3,646094E+20	9,742281E+20	1,330835E+21	1,330847E+21	9,742368E+20	3,646196E+20	8,066724E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065646E+18
2548	3,645445E+20	9,742023E+20	1,330865E+21	1,330871E+21	9,742230E+20	3,645650E+20	8,066881E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068220E+18
2549	3,646137E+20	9,742172E+20	1,330824E+21	1,330783E+21	9,741366E+20	3,645521E+20	8,063410E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063650E+18
2550	3,645377E+20	9,741122E+20	1,330734E+21	1,330773E+21	9,741828E+20	3,646046E+20	8,070857E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067135E+18
2551	3,645198E+20	9,740964E+20	1,330713E+21	1,330720E+21	9,740970E+20	3,645081E+20	8,065541E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067924E+18
2552	3,645705E+20	9,740827E+20	1,330624E+21	1,330601E+21	9,740403E+20	3,645398E+20	8,066427E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065021E+18
2553	3,644827E+20	9,739998E+20	1,330587E+21	1,330617E+21	9,740671E+20	3,645463E+20	8,070418E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069884E+18
2554	3,645292E+20	9,740493E+20	1,330609E+21	1,330568E+21	9,739610E+20	3,644610E+20	8,064483E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067831E+18
2555	3,645394E+20	9,740187E+20	1,330546E+21	1,330541E+21	9,740045E+20	3,645365E+20	8,068905E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065047E+18
2556	3,644578E+20	9,739777E+20	1,330585E+21	1,330612E+21	9,740422E+20	3,645126E+20	8,069006E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071111E+18
2557	3,645447E+20	9,740383E+20	1,330593E+21	1,330572E+21	9,739822E+20	3,644865E+20	8,065625E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065097E+18
2558	3,645129E+20	9,740045E+20	1,330563E+21	1,330604E+21	9,740739E+20	3,645679E+20	8,069699E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066701E+18
2559	3,644901E+20	9,740422E+20	1,330644E+21	1,330652E+21	9,740614E+20	3,645031E+20	8,067072E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069537E+18
2560	3,645769E+20	9,741061E+20	1,330667E+21	1,330634E+21	9,740494E+20	3,645347E+20	8,065155E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063025E+18
2561	3,645098E+20	9,740666E+20	1,330684E+21	1,330726E+21	9,741487E+20	3,645857E+20	8,069829E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069064E+18
2562	3,645452E+20	9,741384E+20	1,330757E+21	1,330748E+21	9,741031E+20	3,645075E+20	8,064984E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066552E+18
2563	3,645938E+20	9,741538E+20	1,330728E+21	1,330720E+21	9,741366E+20	3,645765E+20	8,065044E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064106E+18
2564	3,645134E+20	9,741119E+20	1,330757E+21	1,330786E+21	9,741812E+20	3,645758E+20	8,069255E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070164E+18
2565	3,645899E+20	9,741769E+20	1,330776E+21	1,330748E+21	9,741007E+20	3,645169E+20	8,063279E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064309E+18
2566	3,645698E+20	9,741349E+20	1,330710E+21	1,330720E+21	9,741455E+20	3,645926E+20	8,068389E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065720E+18
2567	3,644973E+20	9,740867E+20	1,330720E+21	1,330731E+21	9,741195E+20	3,645321E+20	8,068601E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068755E+18
2568	3,645684E+20	9,740971E+20	1,330667E+21	1,330635E+21	9,740323E+20	3,645141E+20	8,064419E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064898E+18
2569	3,644978E+20	9,739916E+20	1,330561E+21	1,330602E+21	9,740658E+20	3,645639E+20	8,071605E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068576E+18
2570	3,644867E+20	9,739953E+20	1,330562E+21	1,330555E+21	9,739708E+20	3,644595E+20	8,065741E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069733E+18
2571	3,645436E+20	9,739934E+20	1,330489E+21	1,330451E+21	9,739216E+20	3,644918E+20	8,066682E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065524E+18
2572	3,644439E+20	9,739022E+20	1,330460E+21	1,330485E+21	9,739630E+20	3,645095E+20	8,071424E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070560E+18
2573	3,644894E+20	9,739446E+20	1,330479E+21	1,330458E+21	9,738832E+20	3,644316E+20	8,065964E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068171E+18
2574	3,644975E+20	9,739136E+20	1,330410E+21	1,330416E+21	9,739251E+20	3,645115E+20	8,070095E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065524E+18
2575	3,644192E+20	9,738692E+20	1,330438E+21	1,330471E+21	9,739457E+20	3,644816E+20	8,070031E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072002E+18
2576	3,645133E+20	9,739464E+20	1,330460E+21	1,330438E+21	9,738873E+20	3,644510E+20	8,065950E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065939E+18
2577	3,644831E+20	9,739194E+20	1,330439E+21	1,330469E+21	9,739774E+20	3,645342E+20	8,070139E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067624E+18
2578	3,644612E+20	9,739666E+20	1,330542E+21	1,330535E+21	9,739663E+20	3,644665E+20	8,067547E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070675E+18
2579	3,645512E+20	9,740283E+20	1,330562E+21	1,330528E+21	9,739656E+20	3,644989E+20	8,065413E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063601E+18
2580	3,644784E+20	9,739787E+20	1,330568E+21	1,330613E+21	9,740677E+20	3,645562E+20	8,070583E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070217E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
2581	3,645187E+20	9,740496E+20	1,330632E+21	1,330634E+21	9,740275E+20	3,644801E+20	8,065913E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067236E+18
2582	3,645650E+20	9,740733E+20	1,330609E+21	1,330593E+21	9,740489E+20	3,645477E+20	8,065974E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064549E+18
2583	3,644773E+20	9,740188E+20	1,330630E+21	1,330651E+21	9,740792E+20	3,645427E+20	8,070606E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070409E+18
2584	3,645479E+20	9,740759E+20	1,330648E+21	1,330620E+21	9,740039E+20	3,644817E+20	8,064328E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064940E+18
2585	3,645236E+20	9,740176E+20	1,330562E+21	1,330577E+21	9,740450E+20	3,645578E+20	8,069666E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066686E+18
2586	3,644558E+20	9,739707E+20	1,330565E+21	1,330576E+21	9,740082E+20	3,644904E+20	8,069170E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070392E+18
2587	3,645357E+20	9,739880E+20	1,330507E+21	1,330474E+21	9,739169E+20	3,644681E+20	8,064643E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066009E+18
2588	3,644639E+20	9,738879E+20	1,330410E+21	1,330442E+21	9,739480E+20	3,645205E+20	8,072111E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069650E+18
2589	3,644535E+20	9,738952E+20	1,330421E+21	1,330416E+21	9,738693E+20	3,644233E+20	8,066863E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070268E+18
2590	3,645041E+20	9,738975E+20	1,330363E+21	1,330320E+21	9,738250E+20	3,644599E+20	8,068105E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065691E+18
2591	3,643993E+20	9,737909E+20	1,330322E+21	1,330352E+21	9,738653E+20	3,644766E+20	8,072865E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071157E+18
2592	3,644485E+20	9,738358E+20	1,330336E+21	1,330325E+21	9,737937E+20	3,643995E+20	8,066905E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069254E+18
2593	3,644625E+20	9,738099E+20	1,330265E+21	1,330270E+21	9,738266E+20	3,644776E+20	8,070645E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066810E+18
2594	3,643929E+20	9,737857E+20	1,330313E+21	1,330332E+21	9,738401E+20	3,644413E+20	8,070146E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073413E+18
2595	3,644896E+20	9,738711E+20	1,330350E+21	1,330316E+21	9,737913E+20	3,644120E+20	8,066064E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066359E+18
2596	3,644512E+20	9,738369E+20	1,330334E+21	1,330359E+21	9,738899E+20	3,645022E+20	8,070786E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068386E+18
2597	3,644292E+20	9,738749E+20	1,330429E+21	1,330439E+21	9,738998E+20	3,644424E+20	8,068819E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071022E+18
2598	3,645174E+20	9,739392E+20	1,330445E+21	1,330416E+21	9,738921E+20	3,644752E+20	8,066428E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064002E+18
2599	3,644444E+20	9,738830E+20	1,330438E+21	1,330484E+21	9,739760E+20	3,645261E+20	8,071623E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070782E+18
2600	3,644871E+20	9,739633E+20	1,330508E+21	1,330506E+21	9,739373E+20	3,644481E+20	8,066584E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067831E+18
2601	3,645300E+20	9,739823E+20	1,330484E+21	1,330457E+21	9,739509E+20	3,645149E+20	8,066930E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065384E+18
2602	3,644426E+20	9,739265E+20	1,330507E+21	1,330521E+21	9,739767E+20	3,645040E+20	8,071312E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071507E+18
2603	3,645123E+20	9,739732E+20	1,330513E+21	1,330489E+21	9,739057E+20	3,644409E+20	8,064770E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066053E+18
2604	3,644855E+20	9,739035E+20	1,330409E+21	1,330427E+21	9,739385E+20	3,645188E+20	8,070340E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068232E+18
2605	3,644246E+20	9,738592E+20	1,330406E+21	1,330426E+21	9,739049E+20	3,644530E+20	8,069887E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071477E+18
2606	3,645024E+20	9,738907E+20	1,330363E+21	1,330317E+21	9,738031E+20	3,644287E+20	8,065569E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066556E+18
2607	3,644235E+20	9,737824E+20	1,330267E+21	1,330289E+21	9,738295E+20	3,644797E+20	8,073324E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069933E+18
2608	3,644101E+20	9,737891E+20	1,330285E+21	1,330279E+21	9,737672E+20	3,643875E+20	8,068078E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070915E+18
2609	3,644579E+20	9,737806E+20	1,330217E+21	1,330181E+21	9,737268E+20	3,644258E+20	8,069346E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066730E+18
2610	3,643626E+20	9,736839E+20	1,330177E+21	1,330210E+21	9,737622E+20	3,644372E+20	8,073181E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072677E+18
2611	3,644191E+20	9,737388E+20	1,330197E+21	1,330185E+21	9,736934E+20	3,643594E+20	8,067008E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070257E+18
2612	3,644325E+20	9,737199E+20	1,330137E+21	1,330136E+21	9,737274E+20	3,644416E+20	8,070898E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067731E+18
2613	3,643652E+20	9,736989E+20	1,330196E+21	1,330219E+21	9,737583E+20	3,644139E+20	8,071210E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073616E+18
2614	3,644552E+20	9,737887E+20	1,330246E+21	1,330211E+21	9,737131E+20	3,643872E+20	8,067353E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066276E+18
2615	3,644133E+20	9,737410E+20	1,330214E+21	1,330247E+21	9,738078E+20	3,644749E+20	8,072036E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068927E+18
2616	3,643968E+20	9,737838E+20	1,330303E+21	1,330319E+21	9,738206E+20	3,644168E+20	8,069808E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071906E+18



1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
2617	3,644879E+20	9,738509E+20	1,330319E+21	1,330285E+21	9,738001E+20	3,644436E+20	8,067015E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065267E+18
2618	3,644217E+20	9,738098E+20	1,330324E+21	1,330354E+21	9,738728E+20	3,644860E+20	8,071748E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071916E+18
2619	3,644597E+20	9,738845E+20	1,330399E+21	1,330386E+21	9,738424E+20	3,644097E+20	8,066843E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068420E+18
2620	3,644930E+20	9,738865E+20	1,330364E+21	1,330338E+21	9,738570E+20	3,644792E+20	8,067578E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066482E+18
2621	3,644067E+20	9,738139E+20	1,330365E+21	1,330399E+21	9,738928E+20	3,644742E+20	8,072446E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072144E+18
2622	3,644731E+20	9,738630E+20	1,330365E+21	1,330346E+21	9,738086E+20	3,644089E+20	8,065709E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066805E+18
2623	3,644466E+20	9,737894E+20	1,330249E+21	1,330266E+21	9,738211E+20	3,644787E+20	8,071352E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068855E+18
2624	3,643880E+20	9,737578E+20	1,330256E+21	1,330266E+21	9,737912E+20	3,644152E+20	8,070750E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072067E+18
2625	3,644605E+20	9,737861E+20	1,330222E+21	1,330166E+21	9,736890E+20	3,643904E+20	8,066900E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067343E+18
2626	3,643851E+20	9,736823E+20	1,330133E+21	1,330149E+21	9,737179E+20	3,644365E+20	8,074019E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070922E+18
2627	3,643719E+20	9,736822E+20	1,330146E+21	1,330146E+21	9,736700E+20	3,643489E+20	8,068705E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072154E+18
2628	3,644207E+20	9,736693E+20	1,330069E+21	1,330039E+21	9,736260E+20	3,643888E+20	8,069917E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068326E+18
2629	3,643349E+20	9,735799E+20	1,330031E+21	1,330075E+21	9,736685E+20	3,644041E+20	8,073819E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073500E+18
2630	3,643871E+20	9,736509E+20	1,330072E+21	1,330052E+21	9,735962E+20	3,643269E+20	8,067889E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070441E+18
2631	3,643937E+20	9,736232E+20	1,330012E+21	1,330008E+21	9,736270E+20	3,644086E+20	8,072022E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067795E+18
2632	3,643270E+20	9,736062E+20	1,330074E+21	1,330100E+21	9,736736E+20	3,643872E+20	8,072451E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073981E+18
2633	3,644159E+20	9,736890E+20	1,330117E+21	1,330089E+21	9,736296E+20	3,643599E+20	8,068520E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067255E+18
2634	3,643873E+20	9,736570E+20	1,330091E+21	1,330122E+21	9,737147E+20	3,644378E+20	8,072043E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070444E+18
2635	3,643762E+20	9,737089E+20	1,330188E+21	1,330199E+21	9,737293E+20	3,643795E+20	8,069766E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072964E+18
2636	3,644630E+20	9,737745E+20	1,330209E+21	1,330167E+21	9,737068E+20	3,644075E+20	8,067025E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066439E+18
2637	3,643959E+20	9,737268E+20	1,330216E+21	1,330250E+21	9,737922E+20	3,644574E+20	8,072604E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072107E+18
2638	3,644219E+20	9,737944E+20	1,330287E+21	1,330277E+21	9,737601E+20	3,643822E+20	8,067995E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068461E+18
2639	3,644484E+20	9,737735E+20	1,330222E+21	1,330209E+21	9,737635E+20	3,644487E+20	8,068960E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067104E+18
2640	3,643691E+20	9,737056E+20	1,330209E+21	1,330247E+21	9,737940E+20	3,644445E+20	8,073637E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072929E+18
2641	3,644353E+20	9,737550E+20	1,330208E+21	1,330184E+21	9,736939E+20	3,643714E+20	8,066753E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068084E+18
2642	3,644168E+20	9,736978E+20	1,330108E+21	1,330109E+21	9,736955E+20	3,644295E+20	8,071630E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069909E+18
2643	3,643533E+20	9,736622E+20	1,330125E+21	1,330126E+21	9,736770E+20	3,643706E+20	8,071222E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072917E+18
2644	3,644182E+20	9,736758E+20	1,330084E+21	1,330034E+21	9,735842E+20	3,643497E+20	8,067697E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068649E+18
2645	3,643465E+20	9,735641E+20	1,329984E+21	1,330020E+21	9,736277E+20	3,644041E+20	8,075009E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071643E+18
2646	3,643323E+20	9,735719E+20	1,329997E+21	1,330004E+21	9,735736E+20	3,643175E+20	8,069680E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072854E+18
2647	3,643809E+20	9,735572E+20	1,329914E+21	1,329890E+21	9,735189E+20	3,643535E+20	8,070988E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068837E+18
2648	3,643011E+20	9,734847E+20	1,329888E+21	1,329927E+21	9,735682E+20	3,643736E+20	8,074815E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073812E+18
2649	3,643469E+20	9,735538E+20	1,329943E+21	1,329919E+21	9,734973E+20	3,642957E+20	8,069251E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071136E+18
2650	3,643625E+20	9,735378E+20	1,329895E+21	1,329886E+21	9,735278E+20	3,643683E+20	8,072368E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068799E+18
2651	3,642983E+20	9,735211E+20	1,329957E+21	1,329985E+21	9,735869E+20	3,643532E+20	8,072838E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075286E+18
2652	3,643902E+20	9,736052E+20	1,329998E+21	1,329972E+21	9,735424E+20	3,643257E+20	8,068639E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068894E+18

1 Longitude ☉ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
2653	3,643690E+20	9,735811E+20	1,329978E+21	1,330012E+21	9,736323E+20	3,644067E+20	8,072365E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071132E+18
2654	3,643497E+20	9,736393E+20	1,330089E+21	1,330091E+21	9,736467E+20	3,643518E+20	8,070574E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072783E+18
2655	3,644228E+20	9,736828E+20	1,330096E+21	1,330059E+21	9,736202E+20	3,643788E+20	8,068244E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066458E+18
2656	3,643552E+20	9,736276E+20	1,330086E+21	1,330129E+21	9,737119E+20	3,644337E+20	8,074112E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072185E+18
2657	3,643751E+20	9,736785E+20	1,330140E+21	1,330142E+21	9,736696E+20	3,643544E+20	8,069392E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069495E+18
2658	3,644156E+20	9,736708E+20	1,330070E+21	1,330057E+21	9,736505E+20	3,644049E+20	8,069238E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068539E+18
2659	3,643407E+20	9,736125E+20	1,330065E+21	1,330095E+21	9,736787E+20	3,644005E+20	8,073853E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074078E+18
2660	3,644031E+20	9,736607E+20	1,330070E+21	1,330036E+21	9,735791E+20	3,643277E+20	8,067094E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069523E+18
2661	3,643847E+20	9,735994E+20	1,329978E+21	1,329982E+21	9,735934E+20	3,643911E+20	8,072541E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070405E+18
2662	3,643125E+20	9,735591E+20	1,329994E+21	1,330000E+21	9,735813E+20	3,643366E+20	8,072328E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073346E+18
2663	3,643707E+20	9,735519E+20	1,329927E+21	1,329893E+21	9,734843E+20	3,643157E+20	8,069134E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069609E+18
2664	3,643089E+20	9,734519E+20	1,329820E+21	1,329861E+21	9,735258E+20	3,643731E+20	8,076108E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072425E+18
2665	3,642924E+20	9,734626E+20	1,329842E+21	1,329845E+21	9,734607E+20	3,642819E+20	8,070866E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074031E+18
2666	3,643497E+20	9,734656E+20	1,329775E+21	1,329739E+21	9,734002E+20	3,643072E+20	8,071339E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069669E+18
2667	3,642687E+20	9,733964E+20	1,329765E+21	1,329797E+21	9,734632E+20	3,643329E+20	8,075235E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074692E+18
2668	3,643108E+20	9,734563E+20	1,329817E+21	1,329798E+21	9,734047E+20	3,642592E+20	8,069834E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072475E+18
2669	3,643338E+20	9,734438E+20	1,329773E+21	1,329778E+21	9,734494E+20	3,643377E+20	8,072825E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069619E+18
2670	3,642710E+20	9,734411E+20	1,329845E+21	1,329873E+21	9,735059E+20	3,643251E+20	8,073491E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075663E+18
2671	3,643572E+20	9,735186E+20	1,329879E+21	1,329857E+21	9,734588E+20	3,642977E+20	8,069606E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069070E+18
2672	3,643383E+20	9,735047E+20	1,329865E+21	1,329895E+21	9,735540E+20	3,643847E+20	8,073572E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070912E+18
2673	3,643074E+20	9,735462E+20	1,329974E+21	1,329979E+21	9,735646E+20	3,643281E+20	8,072227E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073095E+18
2674	3,643866E+20	9,735892E+20	1,329971E+21	1,329940E+21	9,735290E+20	3,643421E+20	8,068800E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067508E+18
2675	3,643234E+20	9,735313E+20	1,329949E+21	1,329996E+21	9,736173E+20	3,643978E+20	8,074632E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073688E+18
2676	3,643462E+20	9,735798E+20	1,329994E+21	1,329997E+21	9,735643E+20	3,643143E+20	8,069521E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071507E+18
2677	3,643931E+20	9,735823E+20	1,329939E+21	1,329920E+21	9,735438E+20	3,643630E+20	8,069534E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069543E+18
2678	3,643102E+20	9,735296E+20	1,329946E+21	1,329962E+21	9,735723E+20	3,643618E+20	8,074583E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074147E+18
2679	3,643575E+20	9,735535E+20	1,329935E+21	1,329906E+21	9,734777E+20	3,642921E+20	8,068505E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069924E+18
2680	3,643401E+20	9,734876E+20	1,329829E+21	1,329840E+21	9,735007E+20	3,643625E+20	8,074214E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070652E+18
2681	3,642627E+20	9,734327E+20	1,329832E+21	1,329851E+21	9,734813E+20	3,643064E+20	8,073899E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074591E+18
2682	3,643346E+20	9,734404E+20	1,329764E+21	1,329731E+21	9,733662E+20	3,642700E+20	8,069627E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071032E+18
2683	3,642774E+20	9,733525E+20	1,329669E+21	1,329701E+21	9,734084E+20	3,643291E+20	8,076389E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073541E+18
2684	3,642577E+20	9,733632E+20	1,329702E+21	1,329698E+21	9,733483E+20	3,642397E+20	8,071263E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075349E+18
2685	3,643166E+20	9,733700E+20	1,329653E+21	1,329617E+21	9,733021E+20	3,642693E+20	8,072087E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070043E+18
2686	3,642328E+20	9,733056E+20	1,329649E+21	1,329683E+21	9,733769E+20	3,643016E+20	8,076133E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074946E+18
2687	3,642707E+20	9,733533E+20	1,329684E+21	1,329679E+21	9,733236E+20	3,642330E+20	8,071237E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073162E+18
2688	3,643048E+20	9,733580E+20	1,329644E+21	1,329648E+21	9,733688E+20	3,643137E+20	8,073853E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070083E+18

1 Years	2 Longitude ☉ 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
2689	3,642380E+20	9,733559E+20	1,329727E+21	1,329751E+21	9,734187E+20	3,642984E+20	8,074703E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076428E+18
2690	3,643287E+20	9,734403E+20	1,329768E+21	1,329738E+21	9,733643E+20	3,642592E+20	8,069947E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069697E+18
2691	3,643059E+20	9,734217E+20	1,329755E+21	1,329781E+21	9,734654E+20	3,643497E+20	8,074001E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071816E+18
2692	3,642715E+20	9,734456E+20	1,329845E+21	1,329858E+21	9,734785E+20	3,642937E+20	8,072636E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074578E+18
2693	3,643572E+20	9,734907E+20	1,329841E+21	1,329817E+21	9,734418E+20	3,643074E+20	8,069082E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068781E+18
2694	3,642982E+20	9,734468E+20	1,329823E+21	1,329863E+21	9,735191E+20	3,643614E+20	8,075060E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074314E+18
2695	3,643128E+20	9,734861E+20	1,329859E+21	1,329858E+21	9,734635E+20	3,642802E+20	8,070482E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072106E+18
2696	3,643602E+20	9,734958E+20	1,329811E+21	1,329781E+21	9,734471E+20	3,643324E+20	8,070903E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069582E+18
2697	3,642643E+20	9,734248E+20	1,329817E+21	1,329832E+21	9,734737E+20	3,643303E+20	8,076294E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074644E+18
2698	3,643152E+20	9,734422E+20	1,329788E+21	1,329767E+21	9,733746E+20	3,642509E+20	8,069384E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071148E+18
2699	3,643013E+20	9,733757E+20	1,329674E+21	1,329687E+21	9,733934E+20	3,643227E+20	8,074963E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072214E+18
2700	3,642278E+20	9,733175E+20	1,329668E+21	1,329687E+21	9,733649E+20	3,642632E+20	8,074246E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076483E+18
2701	3,643037E+20	9,733386E+20	1,329620E+21	1,329581E+21	9,732528E+20	3,642266E+20	8,070135E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071950E+18
2702	3,642433E+20	9,732604E+20	1,329542E+21	1,329561E+21	9,732985E+20	3,642890E+20	8,077098E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073512E+18
2703	3,642109E+20	9,732514E+20	1,329564E+21	1,329566E+21	9,732513E+20	3,642071E+20	8,072748E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075667E+18
2704	3,642752E+20	9,732649E+20	1,329513E+21	1,329486E+21	9,732188E+20	3,642433E+20	8,073589E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070185E+18
2705	3,641908E+20	9,731988E+20	1,329512E+21	1,329554E+21	9,732896E+20	3,642747E+20	8,077427E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076038E+18
2706	3,642432E+20	9,732642E+20	1,329551E+21	1,329545E+21	9,732281E+20	3,641954E+20	8,071658E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074232E+18
2707	3,642803E+20	9,732830E+20	1,329530E+21	1,329523E+21	9,732757E+20	3,642778E+20	8,073971E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071155E+18
2708	3,642105E+20	9,732744E+20	1,329616E+21	1,329634E+21	9,733292E+20	3,642639E+20	8,074988E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077565E+18
2709	3,642988E+20	9,733568E+20	1,329668E+21	1,329639E+21	9,732844E+20	3,642261E+20	8,070346E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070352E+18
2710	3,642756E+20	9,733377E+20	1,329647E+21	1,329673E+21	9,733859E+20	3,643195E+20	8,074555E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072330E+18
2711	3,642361E+20	9,733451E+20	1,329711E+21	1,329733E+21	9,733960E+20	3,642673E+20	8,073754E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075471E+18
2712	3,643304E+20	9,734057E+20	1,329707E+21	1,329677E+21	9,733521E+20	3,642800E+20	8,070234E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069242E+18
2713	3,642640E+20	9,733587E+20	1,329700E+21	1,329731E+21	9,734197E+20	3,643295E+20	8,076402E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074894E+18
2714	3,642793E+20	9,733965E+20	1,329735E+21	1,329724E+21	9,733572E+20	3,642391E+20	8,071250E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072701E+18
2715	3,643199E+20	9,733953E+20	1,329682E+21	1,329649E+21	9,733448E+20	3,642927E+20	8,071778E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070588E+18
2716	3,642217E+20	9,733049E+20	1,329665E+21	1,329690E+21	9,733736E+20	3,642913E+20	8,076851E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076161E+18
2717	3,642770E+20	9,733253E+20	1,329636E+21	1,329620E+21	9,732707E+20	3,642107E+20	8,069876E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072624E+18
2718	3,642679E+20	9,732714E+20	1,329525E+21	1,329532E+21	9,732811E+20	3,642818E+20	8,075559E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072737E+18
2719	3,641872E+20	9,732044E+20	1,329512E+21	1,329531E+21	9,732558E+20	3,642275E+20	8,075382E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077003E+18
2720	3,642641E+20	9,732359E+20	1,329474E+21	1,329430E+21	9,731497E+20	3,641950E+20	8,071764E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071934E+18
2721	3,641967E+20	9,731499E+20	1,329406E+21	1,329427E+21	9,731973E+20	3,642554E+20	8,078575E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074160E+18
2722	3,641735E+20	9,731444E+20	1,329420E+21	1,329427E+21	9,731502E+20	3,641682E+20	8,073533E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076975E+18
2723	3,642447E+20	9,731699E+20	1,329378E+21	1,329347E+21	9,731190E+20	3,642052E+20	8,073942E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071889E+18
2724	3,641670E+20	9,731107E+20	1,329382E+21	1,329418E+21	9,731893E+20	3,642351E+20	8,077313E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077813E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
2725	3,642205E+20	9,731896E+20	1,329447E+21	1,329430E+21	9,731378E+20	3,641588E+20	8,071841E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074996E+18
2726	3,642529E+20	9,732111E+20	1,329437E+21	1,329419E+21	9,731910E+20	3,642451E+20	8,074318E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071118E+18
2727	3,641708E+20	9,731762E+20	1,329498E+21	1,329528E+21	9,732551E+20	3,642399E+20	8,076290E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077713E+18
2728	3,642613E+20	9,732599E+20	1,329539E+21	1,329522E+21	9,732146E+20	3,642064E+20	8,071760E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070486E+18
2729	3,642383E+20	9,732394E+20	1,329519E+21	1,329548E+21	9,732992E+20	3,642931E+20	8,075774E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073287E+18
2730	3,642094E+20	9,732567E+20	1,329577E+21	1,329593E+21	9,732951E+20	3,642310E+20	8,074380E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076321E+18
2731	3,643025E+20	9,733263E+20	1,329589E+21	1,329544E+21	9,732501E+20	3,642419E+20	8,070707E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070274E+18
2732	3,642317E+20	9,732669E+20	1,329578E+21	1,329601E+21	9,733175E+20	3,642897E+20	8,076865E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075863E+18
2733	3,642422E+20	9,732981E+20	1,329616E+21	1,329606E+21	9,732651E+20	3,642019E+20	8,071865E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073601E+18
2734	3,642826E+20	9,732918E+20	1,329550E+21	1,329520E+21	9,732503E+20	3,642566E+20	8,072539E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071371E+18
2735	3,641811E+20	9,731836E+20	1,329501E+21	1,329538E+21	9,732740E+20	3,642594E+20	8,077981E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077180E+18
2736	3,642418E+20	9,732184E+20	1,329476E+21	1,329458E+21	9,731650E+20	3,641783E+20	8,071197E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073299E+18
2737	3,642267E+20	9,731641E+20	1,329380E+21	1,329377E+21	9,731645E+20	3,642440E+20	8,076913E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073365E+18
2738	3,641487E+20	9,730971E+20	1,329362E+21	1,329376E+21	9,731371E+20	3,641839E+20	8,076199E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077691E+18
2739	3,642223E+20	9,731281E+20	1,329332E+21	1,329286E+21	9,730403E+20	3,641532E+20	8,072609E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073132E+18
2740	3,641595E+20	9,730372E+20	1,329256E+21	1,329285E+21	9,730942E+20	3,642138E+20	8,078747E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075791E+18
2741	3,641438E+20	9,730484E+20	1,329290E+21	1,329295E+21	9,730528E+20	3,641302E+20	8,073804E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078435E+18
2742	3,642204E+20	9,730900E+20	1,329263E+21	1,329224E+21	9,730246E+20	3,641690E+20	8,074188E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072332E+18
2743	3,641350E+20	9,730231E+20	1,329263E+21	1,329300E+21	9,731052E+20	3,642084E+20	8,078242E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077973E+18
2744	3,641854E+20	9,731061E+20	1,329334E+21	1,329318E+21	9,730630E+20	3,641384E+20	8,073490E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074515E+18
2745	3,642089E+20	9,731141E+20	1,329325E+21	1,329316E+21	9,731145E+20	3,642221E+20	8,075778E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071470E+18
2746	3,641367E+20	9,730767E+20	1,329363E+21	1,329404E+21	9,731700E+20	3,642105E+20	8,077258E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078584E+18
2747	3,642320E+20	9,731697E+20	1,329408E+21	1,329388E+21	9,731190E+20	3,641728E+20	8,072276E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072033E+18
2748	3,642160E+20	9,731555E+20	1,329392E+21	1,329413E+21	9,731960E+20	3,642521E+20	8,075669E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074876E+18
2749	3,641858E+20	9,731834E+20	1,329473E+21	1,329473E+21	9,731955E+20	3,641920E+20	8,074640E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077139E+18
2750	3,642722E+20	9,732466E+20	1,329487E+21	1,329433E+21	9,731560E+20	3,642041E+20	8,071137E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070549E+18
2751	3,641892E+20	9,731585E+20	1,329444E+21	1,329481E+21	9,732328E+20	3,642604E+20	8,078019E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076243E+18
2752	3,642004E+20	9,731857E+20	1,329464E+21	1,329468E+21	9,731809E+20	3,641769E+20	8,073313E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074136E+18
2753	3,642394E+20	9,731754E+20	1,329396E+21	1,329374E+21	9,731466E+20	3,642239E+20	8,073846E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072537E+18
2754	3,641488E+20	9,730740E+20	1,329336E+21	1,329372E+21	9,731551E+20	3,642178E+20	8,078696E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078064E+18
2755	3,642054E+20	9,731173E+20	1,329330E+21	1,329298E+21	9,730428E+20	3,641352E+20	8,071929E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074561E+18
2756	3,641897E+20	9,730571E+20	1,329236E+21	1,329227E+21	9,730442E+20	3,641967E+20	8,077319E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074408E+18
2757	3,641107E+20	9,729944E+20	1,329231E+21	1,329242E+21	9,730309E+20	3,641421E+20	8,076699E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078826E+18
2758	3,641874E+20	9,730285E+20	1,329199E+21	1,329156E+21	9,729427E+20	3,641150E+20	8,073261E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073989E+18
2759	3,641250E+20	9,729328E+20	1,329110E+21	1,329147E+21	9,730009E+20	3,641830E+20	8,079612E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076620E+18
2760	3,641135E+20	9,729603E+20	1,329157E+21	1,329162E+21	9,729665E+20	3,641059E+20	8,075282E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078642E+18



1 Longitude ☉ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
2761	3,641816E+20	9,729998E+20	1,329150E+21	1,329110E+21	9,729348E+20	3,641411E+20	8,075569E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072527E+18
2762	3,640983E+20	9,729256E+20	1,329135E+21	1,329177E+21	9,730137E+20	3,641769E+20	8,079258E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078123E+18
2763	3,641442E+20	9,730062E+20	1,329208E+21	1,329199E+21	9,729759E+20	3,641074E+20	8,074329E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075486E+18
2764	3,641753E+20	9,730117E+20	1,329188E+21	1,329188E+21	9,730215E+20	3,641854E+20	8,075803E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072985E+18
2765	3,641129E+20	9,729954E+20	1,329243E+21	1,329277E+21	9,730755E+20	3,641749E+20	8,077399E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079898E+18
2766	3,642122E+20	9,731016E+20	1,329301E+21	1,329271E+21	9,730272E+20	3,641370E+20	8,072421E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072617E+18
2767	3,641883E+20	9,730768E+20	1,329280E+21	1,329298E+21	9,731100E+20	3,642222E+20	8,076403E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075234E+18
2768	3,641526E+20	9,731005E+20	1,329361E+21	1,329363E+21	9,731180E+20	3,641689E+20	8,076192E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076932E+18
2769	3,642276E+20	9,731447E+20	1,329367E+21	1,329326E+21	9,730732E+20	3,641766E+20	8,072505E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071310E+18
2770	3,641522E+20	9,730470E+20	1,329289E+21	1,329337E+21	9,731352E+20	3,642273E+20	8,079044E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077134E+18
2771	3,641641E+20	9,730797E+20	1,329311E+21	1,329312E+21	9,730686E+20	3,641389E+20	8,074016E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075843E+18
2772	3,642080E+20	9,730708E+20	1,329242E+21	1,329213E+21	9,730239E+20	3,641768E+20	8,074148E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073979E+18
2773	3,641167E+20	9,729811E+20	1,329203E+21	1,329222E+21	9,730349E+20	3,641728E+20	8,079157E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078896E+18
2774	3,641673E+20	9,730173E+20	1,329198E+21	1,329163E+21	9,729325E+20	3,640923E+20	8,072694E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075007E+18
2775	3,641446E+20	9,729390E+20	1,329086E+21	1,329090E+21	9,729464E+20	3,641611E+20	8,078332E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074952E+18
2776	3,640702E+20	9,728828E+20	1,329078E+21	1,329101E+21	9,729388E+20	3,641147E+20	8,078198E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079354E+18
2777	3,641456E+20	9,729199E+20	1,329057E+21	1,329021E+21	9,728456E+20	3,640838E+20	8,074652E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074844E+18
2778	3,640924E+20	9,728333E+20	1,328964E+21	1,329001E+21	9,728983E+20	3,641479E+20	8,080421E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077054E+18
2779	3,640764E+20	9,728678E+20	1,329029E+21	1,329027E+21	9,728639E+20	3,640724E+20	8,076240E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079555E+18
2780	3,641449E+20	9,728999E+20	1,329022E+21	1,328986E+21	9,728375E+20	3,641025E+20	8,075935E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073436E+18
2781	3,640663E+20	9,728362E+20	1,329016E+21	1,329059E+21	9,729240E+20	3,641414E+20	8,079542E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079320E+18
2782	3,641169E+20	9,729200E+20	1,329087E+21	1,329081E+21	9,728894E+20	3,640732E+20	8,074606E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076568E+18
2783	3,641512E+20	9,729288E+20	1,329063E+21	1,329063E+21	9,729341E+20	3,641535E+20	8,076069E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074073E+18
2784	3,640919E+20	9,729278E+20	1,329133E+21	1,329160E+21	9,729926E+20	3,641497E+20	8,078586E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080066E+18
2785	3,641786E+20	9,730257E+20	1,329205E+21	1,329171E+21	9,729453E+20	3,641097E+20	8,073638E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072840E+18
2786	3,641525E+20	9,729849E+20	1,329158E+21	1,329183E+21	9,730235E+20	3,641915E+20	8,077519E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075329E+18
2787	3,641099E+20	9,729974E+20	1,329230E+21	1,329241E+21	9,730289E+20	3,641389E+20	8,077233E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077930E+18
2788	3,641890E+20	9,730317E+20	1,329217E+21	1,329186E+21	9,729729E+20	3,641375E+20	8,072819E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072937E+18
2789	3,641229E+20	9,729514E+20	1,329146E+21	1,329187E+21	9,730249E+20	3,641865E+20	8,079402E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078394E+18
2790	3,641341E+20	9,729879E+20	1,329175E+21	1,329168E+21	9,729585E+20	3,640973E+20	8,074434E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076628E+18
2791	3,641709E+20	9,729693E+20	1,329100E+21	1,329068E+21	9,729156E+20	3,641386E+20	8,075148E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074383E+18
2792	3,640762E+20	9,728775E+20	1,329063E+21	1,329087E+21	9,729371E+20	3,641421E+20	8,080869E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078819E+18
2793	3,641180E+20	9,729019E+20	1,329057E+21	1,329034E+21	9,728375E+20	3,640601E+20	8,074301E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075862E+18
2794	3,641046E+20	9,728209E+20	1,328919E+21	1,328932E+21	9,728397E+20	3,641244E+20	8,079428E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075865E+18
2795	3,640342E+20	9,727788E+20	1,328927E+21	1,328945E+21	9,728259E+20	3,640774E+20	8,078965E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081029E+18
2796	3,641136E+20	9,728201E+20	1,328914E+21	1,328875E+21	9,727331E+20	3,640398E+20	8,075024E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076118E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
2797	3,640616E+20	9,727485E+20	1,328844E+21	1,328868E+21	9,727931E+20	3,641073E+20	8,080683E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077810E+18
2798	3,640407E+20	9,727752E+20	1,328912E+21	1,328911E+21	9,727731E+20	3,640358E+20	8,076800E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080058E+18
2799	3,641063E+20	9,727957E+20	1,328887E+21	1,328865E+21	9,727556E+20	3,640715E+20	8,076513E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074137E+18
2800	3,640368E+20	9,727456E+20	1,328885E+21	1,328936E+21	9,728450E+20	3,641176E+20	8,080684E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079862E+18
2801	3,640862E+20	9,728372E+20	1,328972E+21	1,328968E+21	9,728076E+20	3,640469E+20	8,075717E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077261E+18
2802	3,641259E+20	9,728518E+20	1,328945E+21	1,328939E+21	9,728450E+20	3,641231E+20	8,076866E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074341E+18
2803	3,640598E+20	9,728530E+20	1,329031E+21	1,329046E+21	9,729024E+20	3,641206E+20	8,079646E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080660E+18
2804	3,641419E+20	9,729327E+20	1,329090E+21	1,329063E+21	9,728601E+20	3,640746E+20	8,074215E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073674E+18
2805	3,641186E+20	9,728953E+20	1,329039E+21	1,329064E+21	9,729364E+20	3,641570E+20	8,078013E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076457E+18
2806	3,640782E+20	9,729000E+20	1,329095E+21	1,329110E+21	9,729364E+20	3,641037E+20	8,077727E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079053E+18
2807	3,641574E+20	9,729320E+20	1,329070E+21	1,329040E+21	9,728723E+20	3,641006E+20	8,073313E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074212E+18
2808	3,640944E+20	9,728618E+20	1,329009E+21	1,329042E+21	9,729213E+20	3,641534E+20	8,080786E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078634E+18
2809	3,640916E+20	9,728858E+20	1,329044E+21	1,329035E+21	9,728552E+20	3,640625E+20	8,075811E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077099E+18
2810	3,641261E+20	9,728531E+20	1,328946E+21	1,328920E+21	9,728074E+20	3,640989E+20	8,076384E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074738E+18
2811	3,640295E+20	9,727595E+20	1,328907E+21	1,328934E+21	9,728257E+20	3,641034E+20	8,081800E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080111E+18
2812	3,640776E+20	9,727812E+20	1,328892E+21	1,328877E+21	9,727254E+20	3,640163E+20	8,074760E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077610E+18
2813	3,640749E+20	9,727267E+20	1,328776E+21	1,328778E+21	9,727253E+20	3,640804E+20	8,079676E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077198E+18
2814	3,640047E+20	9,726881E+20	1,328797E+21	1,328807E+21	9,727201E+20	3,640370E+20	8,079388E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081904E+18
2815	3,640772E+20	9,727228E+20	1,328784E+21	1,328744E+21	9,726373E+20	3,640045E+20	8,075816E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076632E+18
2816	3,640254E+20	9,726525E+20	1,328718E+21	1,328749E+21	9,727095E+20	3,640803E+20	8,082036E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077841E+18
2817	3,639982E+20	9,726714E+20	1,328785E+21	1,328797E+21	9,726953E+20	3,640102E+20	8,078141E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080735E+18
2818	3,640729E+20	9,726958E+20	1,328744E+21	1,328727E+21	9,726650E+20	3,640412E+20	8,077444E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074795E+18
2819	3,640093E+20	9,726663E+20	1,328766E+21	1,328805E+21	9,727468E+20	3,640859E+20	8,081424E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081100E+18
2820	3,640598E+20	9,727587E+20	1,328861E+21	1,328849E+21	9,727152E+20	3,640115E+20	8,076292E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078112E+18
2821	3,640991E+20	9,727836E+20	1,328851E+21	1,328830E+21	9,727561E+20	3,640873E+20	8,077201E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075033E+18
2822	3,640271E+20	9,727679E+20	1,328927E+21	1,328946E+21	9,728242E+20	3,640878E+20	8,080180E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081223E+18
2823	3,641044E+20	9,728309E+20	1,328959E+21	1,328945E+21	9,727822E+20	3,640440E+20	8,074675E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074679E+18
2824	3,640879E+20	9,727983E+20	1,328902E+21	1,328933E+21	9,728520E+20	3,641302E+20	8,079172E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077079E+18
2825	3,640438E+20	9,728029E+20	1,328962E+21	1,328979E+21	9,728448E+20	3,640733E+20	8,078792E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079736E+18
2826	3,641223E+20	9,728323E+20	1,328924E+21	1,328888E+21	9,727648E+20	3,640645E+20	8,074443E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074629E+18
2827	3,640551E+20	9,727643E+20	1,328877E+21	1,328897E+21	9,728070E+20	3,641153E+20	8,081940E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079349E+18
2828	3,640488E+20	9,727724E+20	1,328899E+21	1,328894E+21	9,727475E+20	3,640205E+20	8,076581E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078294E+18
2829	3,640891E+20	9,727498E+20	1,328803E+21	1,328771E+21	9,726977E+20	3,640551E+20	8,076884E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076223E+18
2830	3,639971E+20	9,726560E+20	1,328760E+21	1,328785E+21	9,727178E+20	3,640608E+20	8,082091E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081536E+18
2831	3,640452E+20	9,726792E+20	1,328743E+21	1,328726E+21	9,726195E+20	3,639763E+20	8,075288E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078932E+18
2832	3,640433E+20	9,726326E+20	1,328644E+21	1,328641E+21	9,726262E+20	3,640482E+20	8,081059E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077314E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
2833	3,639609E+20	9,725827E+20	1,328671E+21	1,328686E+21	9,726291E+20	3,640069E+20	8,080835E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082045E+18
2834	3,640298E+20	9,726049E+20	1,328635E+21	1,328606E+21	9,725435E+20	3,639730E+20	8,077226E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076765E+18
2835	3,639828E+20	9,725435E+20	1,328576E+21	1,328607E+21	9,726094E+20	3,640481E+20	8,082900E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078948E+18
2836	3,639647E+20	9,725675E+20	1,328641E+21	1,328657E+21	9,725974E+20	3,639742E+20	8,078695E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082143E+18
2837	3,640512E+20	9,726241E+20	1,328629E+21	1,328596E+21	9,725664E+20	3,640022E+20	8,077514E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075975E+18
2838	3,639882E+20	9,725990E+20	1,328668E+21	1,328694E+21	9,726578E+20	3,640503E+20	8,081659E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081880E+18
2839	3,640306E+20	9,726805E+20	1,328759E+21	1,328747E+21	9,726386E+20	3,639814E+20	8,076881E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078625E+18
2840	3,640681E+20	9,726998E+20	1,328748E+21	1,328735E+21	9,726870E+20	3,640628E+20	8,078299E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075304E+18
2841	3,639900E+20	9,726694E+20	1,328806E+21	1,328839E+21	9,727529E+20	3,640638E+20	8,081269E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081846E+18
2842	3,640692E+20	9,727279E+20	1,328813E+21	1,328803E+21	9,726898E+20	3,640136E+20	8,075508E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075551E+18
2843	3,640577E+20	9,727101E+20	1,328770E+21	1,328784E+21	9,727408E+20	3,640943E+20	8,079958E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078237E+18
2844	3,640113E+20	9,727068E+20	1,328827E+21	1,328836E+21	9,727366E+20	3,640339E+20	8,079520E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080617E+18
2845	3,640883E+20	9,727434E+20	1,328800E+21	1,328751E+21	9,726552E+20	3,640210E+20	8,075037E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075537E+18
2846	3,640169E+20	9,726598E+20	1,328744E+21	1,328766E+21	9,727048E+20	3,640726E+20	8,082426E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080210E+18
2847	3,640086E+20	9,726570E+20	1,328746E+21	1,328750E+21	9,726484E+20	3,639825E+20	8,077069E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079662E+18
2848	3,640552E+20	9,726423E+20	1,328656E+21	1,328628E+21	9,725971E+20	3,640211E+20	8,078110E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077003E+18
2849	3,639601E+20	9,725515E+20	1,328619E+21	1,328646E+21	9,726199E+20	3,640279E+20	8,083168E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082001E+18
2850	3,640027E+20	9,725693E+20	1,328592E+21	1,328572E+21	9,725135E+20	3,639431E+20	8,076767E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079230E+18
2851	3,639991E+20	9,725256E+20	1,328508E+21	1,328497E+21	9,725166E+20	3,640138E+20	8,082406E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077815E+18
2852	3,639167E+20	9,724634E+20	1,328520E+21	1,328548E+21	9,725302E+20	3,639706E+20	8,081767E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083075E+18
2853	3,639953E+20	9,725052E+20	1,328492E+21	1,328461E+21	9,724401E+20	3,639332E+20	8,077666E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078242E+18
2854	3,639588E+20	9,724565E+20	1,328446E+21	1,328472E+21	9,725075E+20	3,640068E+20	8,082781E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080522E+18
2855	3,639438E+20	9,724919E+20	1,328523E+21	1,328528E+21	9,725021E+20	3,639384E+20	8,078957E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083349E+18
2856	3,640289E+20	9,725547E+20	1,328535E+21	1,328495E+21	9,724851E+20	3,639738E+20	8,078485E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076126E+18
2857	3,639543E+20	9,725183E+20	1,328573E+21	1,328605E+21	9,725892E+20	3,640253E+20	8,082648E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081822E+18
2858	3,639885E+20	9,725784E+20	1,328632E+21	1,328632E+21	9,725643E+20	3,639573E+20	8,078105E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078669E+18
2859	3,640290E+20	9,726003E+20	1,328620E+21	1,328608E+21	9,725986E+20	3,640356E+20	8,079099E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076276E+18
2860	3,639576E+20	9,725666E+20	1,328663E+21	1,328703E+21	9,726592E+20	3,640313E+20	8,081967E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082881E+18
2861	3,640427E+20	9,726476E+20	1,328688E+21	1,328662E+21	9,725845E+20	3,639747E+20	8,075811E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076722E+18
2862	3,640312E+20	9,726293E+20	1,328655E+21	1,328656E+21	9,726357E+20	3,640530E+20	8,080300E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079111E+18
2863	3,639774E+20	9,726133E+20	1,328702E+21	1,328708E+21	9,726381E+20	3,639970E+20	8,080143E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081409E+18
2864	3,640518E+20	9,726407E+20	1,328671E+21	1,328632E+21	9,725659E+20	3,639883E+20	8,076313E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076137E+18
2865	3,639768E+20	9,725491E+20	1,328601E+21	1,328635E+21	9,726145E+20	3,640403E+20	8,083428E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080858E+18
2866	3,639679E+20	9,725410E+20	1,328582E+21	1,328589E+21	9,725415E+20	3,639488E+20	8,078255E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080615E+18
2867	3,640178E+20	9,725395E+20	1,328511E+21	1,328469E+21	9,724778E+20	3,639831E+20	8,079293E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078041E+18
2868	3,639209E+20	9,724386E+20	1,328468E+21	1,328496E+21	9,725078E+20	3,639888E+20	8,084152E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082765E+18

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
2869	3,639620E+20	9,724650E+20	1,328451E+21	1,328425E+21	9,724002E+20	3,638999E+20	8,077461E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080367E+18
2870	3,639606E+20	9,724150E+20	1,328363E+21	1,328355E+21	9,724089E+20	3,639697E+20	8,082649E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078979E+18
2871	3,638831E+20	9,723555E+20	1,328367E+21	1,328400E+21	9,724279E+20	3,639324E+20	8,081935E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084583E+18
2872	3,639697E+20	9,724151E+20	1,328363E+21	1,328334E+21	9,723460E+20	3,638994E+20	8,078496E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079027E+18
2873	3,639326E+20	9,723784E+20	1,328335E+21	1,328358E+21	9,724227E+20	3,639760E+20	8,083369E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080779E+18
2874	3,639097E+20	9,724082E+20	1,328409E+21	1,328410E+21	9,724178E+20	3,639139E+20	8,080356E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083301E+18
2875	3,639915E+20	9,724709E+20	1,328433E+21	1,328389E+21	9,724012E+20	3,639479E+20	8,079654E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076395E+18
2876	3,639157E+20	9,724170E+20	1,328449E+21	1,328497E+21	9,725141E+20	3,639990E+20	8,083592E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082431E+18
2877	3,639560E+20	9,724890E+20	1,328504E+21	1,328506E+21	9,724760E+20	3,639246E+20	8,078525E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079928E+18
2878	3,640044E+20	9,725161E+20	1,328495E+21	1,328479E+21	9,725000E+20	3,639968E+20	8,079040E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077785E+18
2879	3,639355E+20	9,724869E+20	1,328539E+21	1,328570E+21	9,725600E+20	3,639954E+20	8,082296E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083922E+18
2880	3,640154E+20	9,725656E+20	1,328579E+21	1,328551E+21	9,724930E+20	3,639428E+20	8,076922E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077082E+18
2881	3,639944E+20	9,725356E+20	1,328539E+21	1,328547E+21	9,725507E+20	3,640203E+20	8,081225E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079186E+18
2882	3,639316E+20	9,724991E+20	1,328553E+21	1,328570E+21	9,725444E+20	3,639675E+20	8,081466E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081818E+18
2883	3,640098E+20	9,725298E+20	1,328522E+21	1,328483E+21	9,724601E+20	3,639542E+20	8,077374E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077323E+18
2884	3,639399E+20	9,724353E+20	1,328441E+21	1,328481E+21	9,725069E+20	3,640029E+20	8,084278E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081867E+18
2885	3,639345E+20	9,724453E+20	1,328435E+21	1,328430E+21	9,724236E+20	3,639067E+20	8,078868E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081969E+18
2886	3,639832E+20	9,724400E+20	1,328374E+21	1,328326E+21	9,723619E+20	3,639386E+20	8,079879E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079139E+18
2887	3,638846E+20	9,723313E+20	1,328322E+21	1,328352E+21	9,723995E+20	3,639482E+20	8,084676E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083742E+18
2888	3,639233E+20	9,723530E+20	1,328308E+21	1,328294E+21	9,723029E+20	3,638650E+20	8,078628E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081238E+18
2889	3,639252E+20	9,723110E+20	1,328221E+21	1,328221E+21	9,723141E+20	3,639339E+20	8,083178E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079584E+18
2890	3,638484E+20	9,722570E+20	1,328221E+21	1,328250E+21	9,723239E+20	3,639008E+20	8,083041E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085248E+18
2891	3,639378E+20	9,723332E+20	1,328246E+21	1,328204E+21	9,722462E+20	3,638683E+20	8,079727E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079475E+18
2892	3,638971E+20	9,722883E+20	1,328220E+21	1,328247E+21	9,723374E+20	3,639465E+20	8,084426E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081013E+18
2893	3,638729E+20	9,723214E+20	1,328295E+21	1,328298E+21	9,723323E+20	3,638824E+20	8,081200E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083992E+18
2894	3,639559E+20	9,723749E+20	1,328312E+21	1,328279E+21	9,723175E+20	3,639132E+20	8,079770E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077596E+18
2895	3,638882E+20	9,723228E+20	1,328312E+21	1,328367E+21	9,724258E+20	3,639660E+20	8,083629E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083765E+18
2896	3,639314E+20	9,724038E+20	1,328383E+21	1,328389E+21	9,723894E+20	3,638939E+20	8,079184E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080754E+18
2897	3,639792E+20	9,724402E+20	1,328384E+21	1,328365E+21	9,724139E+20	3,639644E+20	8,079497E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078073E+18
2898	3,639007E+20	9,723999E+20	1,328417E+21	1,328443E+21	9,724661E+20	3,639681E+20	8,083758E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083965E+18
2899	3,639766E+20	9,724744E+20	1,328461E+21	1,328430E+21	9,724002E+20	3,639128E+20	8,078235E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077650E+18
2900	3,639545E+20	9,724266E+20	1,328397E+21	1,328418E+21	9,724604E+20	3,639874E+20	8,082240E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080108E+18
2901	3,638980E+20	9,724005E+20	1,328406E+21	1,328420E+21	9,724364E+20	3,639281E+20	8,081920E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083455E+18
2902	3,639808E+20	9,724347E+20	1,328381E+21	1,328335E+21	9,723432E+20	3,639077E+20	8,077509E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079155E+18
2903	3,639118E+20	9,723400E+20	1,328296E+21	1,328328E+21	9,723923E+20	3,639607E+20	8,084676E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082917E+18
2904	3,638971E+20	9,723414E+20	1,328305E+21	1,328302E+21	9,723198E+20	3,638698E+20	8,080089E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082567E+18



1 Longitude ☉ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
2905	3,639389E+20	9,723266E+20	1,328231E+21	1,328195E+21	9,722645E+20	3,639010E+20	8,080898E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079168E+18
2906	3,638352E+20	9,722058E+20	1,328155E+21	1,328195E+21	9,722951E+20	3,639166E+20	8,086048E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084123E+18
2907	3,638809E+20	9,722415E+20	1,328154E+21	1,328139E+21	9,721947E+20	3,638316E+20	8,079937E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082135E+18
2908	3,638896E+20	9,722073E+20	1,328073E+21	1,328077E+21	9,722124E+20	3,638984E+20	8,084036E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080290E+18
2909	3,638186E+20	9,721766E+20	1,328097E+21	1,328113E+21	9,722193E+20	3,638642E+20	8,083735E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086289E+18
2910	3,639066E+20	9,722502E+20	1,328137E+21	1,328092E+21	9,721525E+20	3,638306E+20	8,080261E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080421E+18
2911	3,638663E+20	9,721990E+20	1,328101E+21	1,328135E+21	9,722550E+20	3,639136E+20	8,084697E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081877E+18
2912	3,638397E+20	9,722260E+20	1,328178E+21	1,328196E+21	9,722585E+20	3,638555E+20	8,082098E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084854E+18
2913	3,639270E+20	9,722868E+20	1,328190E+21	1,328165E+21	9,722392E+20	3,638825E+20	8,079980E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078234E+18
2914	3,638598E+20	9,722388E+20	1,328181E+21	1,328230E+21	9,723319E+20	3,639383E+20	8,084628E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084369E+18
2915	3,639029E+20	9,723290E+20	1,328273E+21	1,328265E+21	9,722962E+20	3,638657E+20	8,080406E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081221E+18
2916	3,639450E+20	9,723531E+20	1,328270E+21	1,328252E+21	9,723278E+20	3,639331E+20	8,080541E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078504E+18
2917	3,638656E+20	9,723120E+20	1,328295E+21	1,328318E+21	9,723707E+20	3,639324E+20	8,084595E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084803E+18
2918	3,639407E+20	9,723749E+20	1,328329E+21	1,328305E+21	9,723051E+20	3,638733E+20	8,078484E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079197E+18
2919	3,639251E+20	9,723275E+20	1,328251E+21	1,328275E+21	9,723578E+20	3,639476E+20	8,082437E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081450E+18
2920	3,638669E+20	9,723021E+20	1,328272E+21	1,328287E+21	9,723354E+20	3,638925E+20	8,082808E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084352E+18
2921	3,639456E+20	9,723389E+20	1,328249E+21	1,328202E+21	9,722446E+20	3,638707E+20	8,078296E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079439E+18
2922	3,638669E+20	9,722297E+20	1,328147E+21	1,328176E+21	9,722844E+20	3,639291E+20	8,086417E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082897E+18
2923	3,638485E+20	9,722241E+20	1,328154E+21	1,328156E+21	9,722168E+20	3,638374E+20	8,081747E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083103E+18
2924	3,638916E+20	9,722003E+20	1,328065E+21	1,328045E+21	9,721625E+20	3,638648E+20	8,082139E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080031E+18
2925	3,637998E+20	9,721005E+20	1,327995E+21	1,328029E+21	9,721746E+20	3,638733E+20	8,086547E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085708E+18
2926	3,638521E+20	9,721494E+20	1,328017E+21	1,327991E+21	9,720789E+20	3,637855E+20	8,080201E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083888E+18
2927	3,638645E+20	9,721233E+20	1,327948E+21	1,327941E+21	9,721069E+20	3,638569E+20	8,084191E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081379E+18
2928	3,637865E+20	9,720880E+20	1,327991E+21	1,328009E+21	9,721326E+20	3,638317E+20	8,084666E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087032E+18
2929	3,638703E+20	9,721558E+20	1,328020E+21	1,327989E+21	9,720792E+20	3,637991E+20	8,080801E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080564E+18
2930	3,638265E+20	9,720953E+20	1,327962E+21	1,328005E+21	9,721725E+20	3,638887E+20	8,085663E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082332E+18
2931	3,638061E+20	9,721330E+20	1,328047E+21	1,328066E+21	9,721728E+20	3,638294E+20	8,083181E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085497E+18
2932	3,638961E+20	9,721991E+20	1,328064E+21	1,328040E+21	9,721536E+20	3,638531E+20	8,080782E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078826E+18
2933	3,638348E+20	9,721690E+20	1,328072E+21	1,328102E+21	9,722331E+20	3,639042E+20	8,085372E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085236E+18
2934	3,638741E+20	9,722529E+20	1,328172E+21	1,328156E+21	9,722039E+20	3,638293E+20	8,081028E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082259E+18
2935	3,639155E+20	9,722661E+20	1,328152E+21	1,328137E+21	9,722415E+20	3,638974E+20	8,080882E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079561E+18
2936	3,638326E+20	9,722161E+20	1,328176E+21	1,328208E+21	9,722884E+20	3,639008E+20	8,085387E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085835E+18
2937	3,639094E+20	9,722804E+20	1,328196E+21	1,328177E+21	9,722160E+20	3,638373E+20	8,078806E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079926E+18
2938	3,638888E+20	9,722285E+20	1,328107E+21	1,328123E+21	9,722531E+20	3,639160E+20	8,083796E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081842E+18
2939	3,638271E+20	9,722012E+20	1,328136E+21	1,328144E+21	9,722330E+20	3,638617E+20	8,084484E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084593E+18
2940	3,638970E+20	9,722208E+20	1,328101E+21	1,328062E+21	9,721450E+20	3,638364E+20	8,079855E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079958E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
2941	3,638229E+20	9,721137E+20	1,327988E+21	1,328016E+21	9,721685E+20	3,638872E+20	8,087356E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083964E+18
2942	3,638083E+20	9,721061E+20	1,327993E+21	1,327997E+21	9,721000E+20	3,637914E+20	8,082034E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085034E+18
2943	3,638619E+20	9,720943E+20	1,327906E+21	1,327882E+21	9,720447E+20	3,638175E+20	8,082145E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081591E+18
2944	3,637715E+20	9,720082E+20	1,327867E+21	1,327895E+21	9,720684E+20	3,638326E+20	8,087016E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086864E+18
2945	3,638220E+20	9,720648E+20	1,327900E+21	1,327871E+21	9,719875E+20	3,637495E+20	8,080864E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084142E+18
2946	3,638246E+20	9,720279E+20	1,327826E+21	1,327816E+21	9,720175E+20	3,638297E+20	8,085637E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081397E+18
2947	3,637455E+20	9,719871E+20	1,327866E+21	1,327892E+21	9,720552E+20	3,638086E+20	8,086237E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087360E+18
2948	3,638289E+20	9,720485E+20	1,327882E+21	1,327866E+21	9,720022E+20	3,637733E+20	8,081886E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081299E+18
2949	3,637990E+20	9,720094E+20	1,327829E+21	1,327859E+21	9,720697E+20	3,638533E+20	8,086072E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083628E+18
2950	3,637824E+20	9,720558E+20	1,327932E+21	1,327939E+21	9,720742E+20	3,637916E+20	8,083523E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086851E+18
2951	3,638734E+20	9,721255E+20	1,327958E+21	1,327923E+21	9,720608E+20	3,638158E+20	8,081016E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079677E+18
2952	3,638043E+20	9,720878E+20	1,327978E+21	1,328008E+21	9,721513E+20	3,638719E+20	8,086219E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085888E+18
2953	3,638400E+20	9,721625E+20	1,328060E+21	1,328054E+21	9,721317E+20	3,637991E+20	8,081562E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082450E+18
2954	3,638765E+20	9,721641E+20	1,328017E+21	1,328005E+21	9,721545E+20	3,638703E+20	8,081948E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080127E+18
2955	3,637979E+20	9,721178E+20	1,328038E+21	1,328071E+21	9,721986E+20	3,638729E+20	8,086611E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086304E+18
2956	3,638706E+20	9,721784E+20	1,328056E+21	1,328039E+21	9,721234E+20	3,638058E+20	8,079881E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080722E+18
2957	3,638542E+20	9,721327E+20	1,327968E+21	1,327969E+21	9,721374E+20	3,638766E+20	8,084828E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082785E+18
2958	3,637890E+20	9,720945E+20	1,327996E+21	1,328003E+21	9,721221E+20	3,638188E+20	8,085131E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085971E+18
2959	3,638597E+20	9,721069E+20	1,327946E+21	1,327911E+21	9,720348E+20	3,637917E+20	8,080248E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081476E+18
2960	3,637878E+20	9,720034E+20	1,327843E+21	1,327871E+21	9,720577E+20	3,638438E+20	8,087784E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085475E+18
2961	3,637792E+20	9,720088E+20	1,327849E+21	1,327848E+21	9,719912E+20	3,637485E+20	8,082211E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086024E+18
2962	3,638277E+20	9,719994E+20	1,327768E+21	1,327730E+21	9,719345E+20	3,637817E+20	8,083356E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082056E+18
2963	3,637346E+20	9,719148E+20	1,327743E+21	1,327766E+21	9,719755E+20	3,638033E+20	8,088554E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086940E+18
2964	3,637748E+20	9,719556E+20	1,327768E+21	1,327752E+21	9,719070E+20	3,637229E+20	8,082537E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084410E+18
2965	3,637826E+20	9,719197E+20	1,327685E+21	1,327680E+21	9,719221E+20	3,637969E+20	8,086556E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082207E+18
2966	3,637099E+20	9,718811E+20	1,327726E+21	1,327758E+21	9,719583E+20	3,637723E+20	8,086621E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,088824E+18
2967	3,638016E+20	9,719549E+20	1,327744E+21	1,327726E+21	9,719030E+20	3,637350E+20	8,081928E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082491E+18
2968	3,637749E+20	9,719335E+20	1,327725E+21	1,327744E+21	9,719767E+20	3,638180E+20	8,086331E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084674E+18
2969	3,637586E+20	9,719858E+20	1,327834E+21	1,327833E+21	9,719924E+20	3,637606E+20	8,084099E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086949E+18
2970	3,638390E+20	9,720419E+20	1,327851E+21	1,327816E+21	9,719817E+20	3,637908E+20	8,082293E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079791E+18
2971	3,637691E+20	9,719975E+20	1,327862E+21	1,327903E+21	9,720821E+20	3,638497E+20	8,087603E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086158E+18
2972	3,638012E+20	9,720612E+20	1,327927E+21	1,327934E+21	9,720567E+20	3,637744E+20	8,082642E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083277E+18
2973	3,638477E+20	9,720748E+20	1,327882E+21	1,327857E+21	9,720475E+20	3,638330E+20	8,082447E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081504E+18
2974	3,637706E+20	9,720288E+20	1,327909E+21	1,327931E+21	9,720899E+20	3,638322E+20	8,087009E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087641E+18
2975	3,638386E+20	9,720826E+20	1,327924E+21	1,327900E+21	9,720161E+20	3,637641E+20	8,080253E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081922E+18
2976	3,638165E+20	9,720291E+20	1,327843E+21	1,327842E+21	9,720331E+20	3,638356E+20	8,085579E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083815E+18

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude $\odot$	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
Years												
2977	3,637517E+20	9,719844E+20	1,327849E+21	1,327863E+21	9,720231E+20	3,637798E+20	8,085535E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086571E+18
2978	3,638180E+20	9,719910E+20	1,327786E+21	1,327753E+21	9,719251E+20	3,637556E+20	8,081403E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082243E+18
2979	3,637520E+20	9,718988E+20	1,327692E+21	1,327720E+21	9,719538E+20	3,638093E+20	8,088999E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085790E+18
2980	3,637378E+20	9,719052E+20	1,327708E+21	1,327707E+21	9,718939E+20	3,637179E+20	8,083651E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086630E+18
2981	3,637894E+20	9,719012E+20	1,327635E+21	1,327585E+21	9,718222E+20	3,637446E+20	8,084709E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082716E+18
2982	3,636947E+20	9,718081E+20	1,327610E+21	1,327638E+21	9,718766E+20	3,637663E+20	8,089364E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087999E+18
2983	3,637359E+20	9,718436E+20	1,327622E+21	1,327616E+21	9,718131E+20	3,636861E+20	8,083019E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085746E+18
2984	3,637494E+20	9,718175E+20	1,327551E+21	1,327547E+21	9,718222E+20	3,637587E+20	8,086742E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083673E+18
2985	3,636870E+20	9,717963E+20	1,327596E+21	1,327624E+21	9,718622E+20	3,637355E+20	8,086660E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089525E+18
2986	3,637729E+20	9,718747E+20	1,327628E+21	1,327598E+21	9,718078E+20	3,637047E+20	8,082929E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082838E+18
2987	3,637458E+20	9,718572E+20	1,327622E+21	1,327640E+21	9,718983E+20	3,637920E+20	8,087536E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084733E+18
2988	3,637200E+20	9,718961E+20	1,327724E+21	1,327733E+21	9,719239E+20	3,637387E+20	8,085529E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087263E+18
2989	3,638047E+20	9,719491E+20	1,327728E+21	1,327693E+21	9,718932E+20	3,637595E+20	8,082949E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080817E+18
2990	3,637401E+20	9,719049E+20	1,327734E+21	1,327778E+21	9,719897E+20	3,638140E+20	8,087755E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087530E+18
2991	3,637744E+20	9,719716E+20	1,327795E+21	1,327799E+21	9,719596E+20	3,637367E+20	8,082661E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084500E+18
2992	3,638191E+20	9,719920E+20	1,327771E+21	1,327735E+21	9,719468E+20	3,637950E+20	8,082821E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082661E+18
2993	3,637421E+20	9,719420E+20	1,327790E+21	1,327808E+21	9,719947E+20	3,637972E+20	8,087681E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087755E+18
2994	3,637960E+20	9,719765E+20	1,327789E+21	1,327768E+21	9,719196E+20	3,637336E+20	8,081713E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082385E+18
2995	3,637762E+20	9,719185E+20	1,327695E+21	1,327706E+21	9,719414E+20	3,638046E+20	8,087018E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084190E+18
2996	3,637091E+20	9,718703E+20	1,327691E+21	1,327712E+21	9,719226E+20	3,637486E+20	8,086797E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087474E+18
2997	3,637830E+20	9,718880E+20	1,327633E+21	1,327587E+21	9,718016E+20	3,637130E+20	8,082384E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083423E+18
2998	3,637181E+20	9,718008E+20	1,327556E+21	1,327574E+21	9,718374E+20	3,637658E+20	8,089616E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086844E+18
2999	3,636988E+20	9,717983E+20	1,327568E+21	1,327566E+21	9,717865E+20	3,636782E+20	8,084421E+18	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087731E+18